TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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ANALYTICAL REPORT

CHECKED FOR COMPLETENESS OF PARAMETERS ORDERED BY:

Job Number: 480-30406-1

Job Description: Olin Chemical Wilmington MA Superfund

For:
Olin Corporation
PO BOX 248
Charleston, TN 37310-0248

Attention: Mr. James Cashwell

Approved for release.
Becky C Mason
Project Manager II
3/12/2013 12:46 PM

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03/12/2013
Revision: 1

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MassDEP Analytical Protocol Certification Form

Laboratory Name:	**TestAmerica Buffalo**	Project #:	**480-30406-1**
Project Location:	**Olin Wilmington**	RTN:	

This form provides certifications for the following data set: list Laboratory Sample ID Number(s):

480-30406-1 [1-4]

Matrices: ☐ Groundwater/Surface Water ☒ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocols (check all that apply below):

8260 VOC CAM II A ☒	7470/7471 Hg CAM III B ☐	Mass DEP VPH CAM IV A ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	Mass DEP APH CAM IX A ☐
8270 SVOC CAM II B ☒	7010 Metals CAM III C ☐	Mass DEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐
6010 Metals CAM III A ☒	6020 Metals CAM III D ☐	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐	

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding time.	☒ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☒ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☒ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☒ Yes ☐ No
E	a. VPH, EPH and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☒ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☐ Yes ☒ No[1]

Data User Note: ***Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WCS-07-350***

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ☒ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s) ?	☒ Yes ☐ No[1]

[1] All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature:		Position:	Service Center Manager/Lab Director-TestAmerica Westfield
Printed Name:	Steven C. Hartmann	Date:	1/10/13 14:17

This form has been electronically signed and approved

CASE NARRATIVE
Client: Olin Corporation

Project: Olin Chemical Wilmington MA Superfund
Report Number: 480-30406-1

Revised report: 8270 originally reported using continuing calibration. We have now corrected 8270 to calculate from ICAL, revised 8270 data included in this report. We have also updated 8270 compound list per request of the client. Updated orgianl LCS summaries. Corrected Metals list.

Samples were analyzed in accordance with analytical methods, SOPs, and QA/QC goals described in the Olin Chemical Superfund Site Remedial Investigation /Feasibility Study Work Plan Volume III-B Quality Assurance Project Plan (QAPP) August 14, 2009. Analytical methods include USEPA published methods for the majority of analytes. Custom laboratory methods that were developed by Test America are also used for a subset of analytes as described in the QAPP. Analytical QA/QC goals from the Massachusetts Contingency Plan (MCP) Compendium of MCP Methods published by the Massachusetts Department of Environmental Protection (MassDEP) have been identified as project goals in the QAPP for those methods addressed in the Compendium. Analytical methods are run in accordance with both USEPA methodologies and MassDEP analytical guidelines. Analytical methods meet requirements of USEPA methods and MassDEP Presumptive Certainty goals unless discussed in this narrative.

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

For those methods contained in the MassDEP Compendium, a separate MCP Analytical Method Report Certification Form is included for each method requested.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may be greater than project QLs identified in the QAPP. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes which exceed the calibration range.

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

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 12/17/2012; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 0.9º C, 2.0º C and 4.2º C.

Note: All samples that require thermal preservation are considered acceptable if the arrival temperature is within the method's specified temperature range or for general analysis, ranging from 6°C to just above the freezing temperature of water. Samples that are hand delivered, immediately following collection, may not meet these criteria; however, they will be considered acceptable according to NELAC and State standards, if there is evidence that the chilling process has begun, such as stored and transported to the laboratory on ice.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples OC-SD-SD-503-XXX (480-30406-1), OC-SD-SD-504-XXX (480-30406-2), OC-SD-SD-501-XXX (480-30406-3) and OC-SD-SD-502-XXX (480-30406-4) were analyzed for volatile organic compounds (GC-MS) in accordance with SW846 8260C. The samples were prepared and analyzed on 12/19/2012.

The RRF for Chloroethane in the continuing calibration verification (CCV) associated with analytical batch 96559 was below the limit of 0.1000 (0.0908).

The laboratory control sample duplicate (LCSD) for batch 96559 exceeded control limits for the following analytes: Bromomethane. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%.

No difficulties were encountered during the VOC analyses.

All quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS) - LOW LEVEL

Samples OC-SD-SD-503-XXX (480-30406-1), OC-SD-SD-504-XXX (480-30406-2), OC-SD-SD-501-XXX (480-30406-3) and OC-SD-SD-502-XXX (480-30406-4) were analyzed for semivolatile organic compounds (GC-MS) - Low Level in accordance with EPA SW-846 Method 8270D LL. The samples were prepared on 12/19/2012 and analyzed on 12/21/2012.

Surrogates

2,4,6-Tribromophenol, 2-Fluorobiphenyl, 2-Fluorophenol, Nitrobenzene-d5, Phenol-d5 and p-Terphenyl-d14 failed the surrogate recovery

criteria low for OC-SD-SD-503-XXX (480-30406-1).

2,4,6-Tribromophenol, 2-Fluorobiphenyl, 2-Fluorophenol, Nitrobenzene-d5 and Phenol-d5 failed the surrogate recovery criteria low for OC-SD-SD-504-XXX (480-30406-2), OC-SD-SD-501-XXX (480-30406-3) and OC-SD-SD-502-XXX (480-30406-4)

Initial Calibration
The following compounds used quadratic regression; Benzyl alcohol, Benzoic Acid, Hexachlorocyclopentadiene and 2,4-dinitrophenol.

General
Samples OC-SD-SD-503-XXX (480-30406-1)[10X], OC-SD-SD-504-XXX (480-30406-2)[10X], OC-SD-SD-501-XXX (480-30406-3)[10X] and OC-SD-SD-502-XXX (480-30406-4)[10X] required dilution prior to analysis due to the nature of the sample matrix. The reporting limits have been adjusted accordingly.

Method(s) 8270D: Due to the level of dilution required for the following sample(s), surrogate recoveries are below limits: OC-SD-SD-501-XXX (480-30406-3), OC-SD-SD-502-XXX (480-30406-4), OC-SD-SD-503-XXX (480-30406-1), OC-SD-SD-504-XXX (480-30406-2).

Method(s) 8270D: The following sample(s) was diluted due to the nature of the sample matrix: OC-SD-SD-501-XXX (480-30406-3), OC-SD-SD-502-XXX (480-30406-4), OC-SD-SD-503-XXX (480-30406-1), OC-SD-SD-504-XXX (480-30406-2). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The following compounds were outside control limits in the continuing calibration verification (CCV) associated with batch 97046: Benzyl Alcohol, 4-mehtylphenol and Caprolactum. Due to the large number of analytes contained in the CCV, the laboratory's SOP allows for seven analytes to be outside limits; therefore, the data have been reported.

Method(s) 8270D: The analytes 3-Methylphenol and 4-Methylphenol co-elute and can not be analytical separated. The reported concentrations for these analytes are a total rather than individual quantitated value. Since these analytes co-elute, only 4-Methylphenol was calibrated for in the calibration data.

Method(s) 8270D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for the preparation batch 96561 exceeded control limits for the following analyte: Azobenzene. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data has been qualified and reported.

Method(s) 8270D: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 96561exceeded control limits for the following analyte: 4-Nitrophenol. 4-Nitrophenol has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8270D: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 96561 exceeded control limits for the following analytes: 2,4-Dinitrophenol and 4-Nitrophenol. The data has been qualified and reported.

Method(s) 8270D: The following compound was outside control limits in the continuing calibration verification (CCV) associated with analytical batch 96803: Benzoic acid. Due to the large number of analytes contained in the CCV, the laboratory's SOP allows for seven analytes to be outside limits; therefore, the data have been reported.

No other difficulties were encountered during the SVOC Low Level analyses.

All other quality control parameters were within the acceptance limits.

NITROSAMINES BY ISOTOPE DILUTION AND GC/CI/MS/MS
Samples OC-SD-SD-503-XXX (480-30406-1), OC-SD-SD-504-XXX (480-30406-2), OC-SD-SD-501-XXX (480-30406-3) and OC-SD-SD-502-XXX (480-30406-4) were analyzed for Nitrosamines by Isotope Dilution and GC/CI/MS/MS in accordance with GCMSMS_NDMA. The samples were prepared on 12/20/2012 and analyzed on 01/03/2013 and 01/07/2013.

Due to the level of spike added to the laboratory control sample (LCS), matrix spike (MS) and matrix spike duplicate (MSD) (prep batch 7689, analytical batch 8232), analyte NDMA had recoveries above the calibration range. No action was taken, since all recoveries (analyte and surrogate) were within the control limits.

No difficulties were encountered during the NDMA analyses.

All quality control parameters were within the acceptance limits.

TOTAL METALS
Samples OC-SD-SD-503-XXX (480-30406-1), OC-SD-SD-504-XXX (480-30406-2), OC-SD-SD-501-XXX (480-30406-3) and OC-SD-SD-502-XXX (480-30406-4) were analyzed for total metals in accordance with SW846 6010. The samples were prepared on 12/19/2012 and analyzed on 12/19/2012 and 12/20/2012.

Method Blank

Zinc was detected in method blank MB 480-96586/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged “J”. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged. Refer to the QC report for details.

Matrix spike
Selenium failed the recovery criteria low for the MSD of sample OC-SD-SD-502-XXXMSD (480-30406-4) in batch 480-96762. Refer to the QC report for details.

CRI
The CRI (CRI 480-96762/42) exhibited results below the project established control limits for total silver. However, the results were within TestAmerica's standard quality control limits therefore, no corrective action was necessary.

The CRI (CRI 480-104944/7) exhibited a result outside the project established contol limits for total tin. However, the result was within TestAmerica's standard quality control limits, therefore no corrective action was necessary.

No other difficulties were encountered during the total metals analyses.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY
Samples OC-SD-SD-503-XXX (480-30406-1), OC-SD-SD-504-XXX (480-30406-2), OC-SD-SD-501-XXX (480-30406-3) and OC-SD-SD-502-XXX (480-30406-4) were analyzed for total mercury in accordance with EPA SW-846 Method 7471A. The samples were prepared and analyzed on 12/19/2012.

No difficulties were encountered during the total mercury analyses.

All quality control parameters were within the acceptance limits.

HEXAVALENT CHROMIUM
Samples OC-SD-SD-503-XXX (480-30406-1), OC-SD-SD-504-XXX (480-30406-2), OC-SD-SD-501-XXX (480-30406-3) and OC-SD-SD-502-XXX (480-30406-4) were analyzed for Hexavalent chromium in accordance with SW 846 7199. The samples were prepared on 12/27/2012 and analyzed on 01/01/2013.

General
Sample(s) were found to have been reductive in nature for hexavalent chromium.OC-SB-513-0.0/1.0-XXX (480-30106-1)

The sample matrix has been determined to be reductive in nature (480-30106-6 MSI), OC-SB-514-15/17-MDS (480-30106-6 MSD), OC-SB-514-15/17-XMS (480-30106-6 MS), OC-SB-514-15/17-XXX (480-30106-6), OC-SD-SD-501-XXX (480-30406-3), OC-SD-SD-502-XXX (480-30406-4), OC-SD-SD-503-XXX (480-30406-1), OC-SD-SD-504-XXX (480-30406-2)

No difficulties were encountered during the hex chrome analyses.

All quality control parameters were within the acceptance limits.

REDUCTION-OXIDATION (REDOX) POTENTIAL
Samples OC-SD-SD-503-XXX (480-30406-1), OC-SD-SD-504-XXX (480-30406-2), OC-SD-SD-501-XXX (480-30406-3) and OC-SD-SD-502-XXX (480-30406-4) were analyzed for Reduction-Oxidation (REDOX) Potential in accordance with SM20 2580B Oxidation Reduction Potential. The samples were leached on 12/18/2012 and analyzed on 12/18/2012.

General
For ORP batch 97430, the following samples have negative ORP values. TALS does not recognize negative values as reportable (but converts them to non-detects); therefore the "(-)" has been inserted before each integer value reported to indicate that each is a negative number.

No difficulties were encountered during the redox analyses.

All quality control parameters were within the acceptance limits.

PH
Samples OC-SD-SD-503-XXX (480-30406-1), OC-SD-SD-504-XXX (480-30406-2), OC-SD-SD-501-XXX (480-30406-3) and OC-SD-SD-502-XXX (480-30406-4) were analyzed for pH in accordance with EPA SW-846 Method 9045C. The samples were leached on 12/18/2012 and analyzed on 12/18/2012.

No difficulties were encountered during the pH analyses.

All quality control parameters were within the acceptance limits.

ANIONS (28 DAY HOLD TIME)
Samples OC-SD-SD-503-XXX (480-30406-1), OC-SD-SD-504-XXX (480-30406-2), OC-SD-SD-501-XXX (480-30406-3) and

OC-SD-SD-502-XXX (480-30406-4) were analyzed for anions (28 day hold time) in accordance with EPA Method 300.0. The samples were leached on 12/28/2012 and analyzed on 12/28/2012.

Sample OC-SD-SD-504-XXX (480-30406-2)[2X] required dilution prior to analysis to bring the concentration of target analytes within the calibration range . The reporting limits have been adjusted accordingly.

No difficulties were encountered during the anions analyses.

All quality control parameters were within the acceptance limits.

NITROGEN-AMMONIA

Samples OC-SD-SD-503-XXX (480-30406-1), OC-SD-SD-504-XXX (480-30406-2), OC-SD-SD-501-XXX (480-30406-3) and OC-SD-SD-502-XXX (480-30406-4) were analyzed for Nitrogen-Ammonia in accordance with MCAWW 350.1. The samples were leached on 12/20/2012, prepared on 12/22/2012 and analyzed on 12/26/2012.

No difficulties were encountered during the ammonia analyses.

All quality control parameters were within the acceptance limits.

TOTAL ORGANIC CARBON

Samples OC-SD-SD-503-XXX (480-30406-1), OC-SD-SD-504-XXX (480-30406-2), OC-SD-SD-501-XXX (480-30406-3) and OC-SD-SD-502-XXX (480-30406-4) were analyzed for total organic carbon in accordance with SW846 9060. The samples were leached on 12/20/2012 and analyzed on 12/28/2012.

No difficulties were encountered during the TOC analyses.

All quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Samples OC-SD-SD-503-XXX (480-30406-1), OC-SD-SD-504-XXX (480-30406-2), OC-SD-SD-501-XXX (480-30406-3) and OC-SD-SD-502-XXX (480-30406-4) were analyzed for percent solids in accordance with EPA Moisture. The samples were analyzed on 12/19/2012.

No difficulties were encountered during the % solids analyses.

All quality control parameters were within the acceptance limits.

Organic Prep

Method(s) 3546: A significant amount of liquid was present in the following samples: OC-SD-SD-501-XXX (480-30406-3), OC-SD-SD-502-XXX (480-30406-4), OC-SD-SD-503-XXX (480-30406-1), OC-SD-SD-504-XXX (480-30406-2). These samples were decanted prior to preparation.

SAMPLE SUMMARY

Client: Olin Corporation

Job Number: 480-30406-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-30406-1	OC-SD-SD-503-XXX	Solid	12/17/2012 1430	12/17/2012 1850
480-30406-2	OC-SD-SD-504-XXX	Solid	12/17/2012 1500	12/17/2012 1850
480-30406-3	OC-SD-SD-501-XXX	Solid	12/17/2012 1215	12/17/2012 1850
480-30406-4	OC-SD-SD-502-XXX	Solid	12/17/2012 1245	12/17/2012 1850

EXECUTIVE SUMMARY - Detections

Client: Olin Corporation

Job Number: 480-30406-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-30406-1	**OC-SD-SD-503-XXX**					
2,4,4-Trimethyl-1-pentene		2.4	J	6.8	ug/Kg	8260C
2,4,4-Trimethyl-2-pentene		1.4	J	6.8	ug/Kg	8260C
2-Butanone (MEK)		35		34	ug/Kg	8260C
Acetone		150	J	340	ug/Kg	8260C
Benzaldehyde		1300		520	ug/Kg	8270D
N-Nitrosodiphenylamine		330	J	520	ug/Kg	8270D
3 & 4 Methylphenol		4000		520	ug/Kg	8270D
Acetophenone		160	J	520	ug/Kg	8270D
Bis(2-ethylhexyl) phthalate		3100		2600	ug/Kg	8270D
Phenol		1900		520	ug/Kg	8270D
4-Methylphenol		4000		520	ug/Kg	8270D
Arsenic		12		1.4	mg/Kg	6010
Barium		48		0.69	mg/Kg	6010
Beryllium		0.12	J	0.28	mg/Kg	6010
Cadmium		0.55		0.28	mg/Kg	6010
Chromium		50		0.69	mg/Kg	6010
Nickel		11		1.4	mg/Kg	6010
Vanadium		22		0.69	mg/Kg	6010
Zinc		55	B	3.5	mg/Kg	6010
Lead		26		0.69	mg/Kg	6010
Sodium		110	J	190	mg/Kg	6010
Potassium		1100		42	mg/Kg	6010
Calcium		4700	B	69	mg/Kg	6010
Iron		12000	B	14	mg/Kg	6010
Tin		2.2	J ^	3.1	mg/Kg	6010
Magnesium		2300		28	mg/Kg	6010
Copper		19		1.4	mg/Kg	6010
Aluminum		9100		14	mg/Kg	6010
Manganese		400	B	0.28	mg/Kg	6010
Cobalt		4.8		0.69	mg/Kg	6010
Mercury		0.075	J	0.16	mg/Kg	7471A
Percent Moisture		36		0.10	%	Moisture
Percent Solids		64		0.10	%	Moisture
Soluble						
Chloride-Soluble		6.3	J	6.9	mg/Kg	300.0
Sulfate-Soluble		900		27	mg/Kg	300.0
pH-Soluble		6.98		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		(-) 32		0.010	millivolts	SM 2580B
ASTM Leach						
Ammonia-ASTM Leach		14		3.9	mg/Kg	350.1
TOC Result 1-ASTM Leach		110		20	mg/Kg	9060
TOC Result 2-ASTM Leach		110		20	mg/Kg	9060
Total Organic Carbon - Duplicates-ASTM Leach		110		20	mg/Kg	9060

EXECUTIVE SUMMARY - Detections

Client: Olin Corporation

Job Number: 480-30406-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-30406-2	**OC-SD-SD-504-XXX**					
2,4,4-Trimethyl-1-pentene		7.8		7.5	ug/Kg	8260C
2,4,4-Trimethyl-2-pentene		3.9	J	7.5	ug/Kg	8260C
2-Butanone (MEK)		33	J	38	ug/Kg	8260C
Acetone		130	J	380	ug/Kg	8260C
Benzaldehyde		620		580	ug/Kg	8270D
3 & 4 Methylphenol		1800		580	ug/Kg	8270D
Benzo[a]pyrene		220	J	580	ug/Kg	8270D
Phenol		1400		580	ug/Kg	8270D
4-Methylphenol		1800		580	ug/Kg	8270D
Arsenic		9.4		1.6	mg/Kg	6010
Barium		51		0.79	mg/Kg	6010
Beryllium		0.089	J	0.32	mg/Kg	6010
Cadmium		0.56		0.32	mg/Kg	6010
Chromium		33		0.79	mg/Kg	6010
Nickel		9.9		1.6	mg/Kg	6010
Vanadium		19		0.79	mg/Kg	6010
Zinc		73	B	4.0	mg/Kg	6010
Lead		23		0.79	mg/Kg	6010
Sodium		150	J	220	mg/Kg	6010
Potassium		740		48	mg/Kg	6010
Calcium		4800	B	79	mg/Kg	6010
Iron		11000	B	16	mg/Kg	6010
Tin		2.3	J ^	3.4	mg/Kg	6010
Magnesium		2000		32	mg/Kg	6010
Copper		25		1.6	mg/Kg	6010
Aluminum		7800		16	mg/Kg	6010
Manganese		440	B	0.32	mg/Kg	6010
Cobalt		4.5		0.79	mg/Kg	6010
Mercury		0.062	J	0.17	mg/Kg	7471A
Percent Moisture		44		0.10	%	Moisture
Percent Solids		56		0.10	%	Moisture
Soluble						
Chloride-Soluble		13		8.2	mg/Kg	300.0
Sulfate-Soluble		1900		65	mg/Kg	300.0
pH-Soluble		6.99		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		(-) 31		0.010	millivolts	SM 2580B
ASTM Leach						
Ammonia-ASTM Leach		22		3.9	mg/Kg	350.1
TOC Result 1-ASTM Leach		58		20	mg/Kg	9060
TOC Result 2-ASTM Leach		63		20	mg/Kg	9060
Total Organic Carbon - Duplicates-ASTM Leach		60		20	mg/Kg	9060

EXECUTIVE SUMMARY - Detections

Client: Olin Corporation

Job Number: 480-30406-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-30406-3	**OC-SD-SD-501-XXX**					
2-Butanone (MEK)		27		25	ug/Kg	8260C
Acetone		120	J	250	ug/Kg	8260C
Methyl tert-butyl ether		1.7	J	2.5	ug/Kg	8260C
Toluene		0.98	J	2.5	ug/Kg	8260C
Benzaldehyde		1400		460	ug/Kg	8270D
3 & 4 Methylphenol		4300		460	ug/Kg	8270D
Acetophenone		150	J	460	ug/Kg	8270D
Fluoranthene		210	J	460	ug/Kg	8270D
Phenol		1700		460	ug/Kg	8270D
Pyrene		180	J	460	ug/Kg	8270D
4-Methylphenol		4300		460	ug/Kg	8270D
Arsenic		6.2		1.4	mg/Kg	6010
Barium		45		0.68	mg/Kg	6010
Beryllium		0.094	J	0.27	mg/Kg	6010
Cadmium		0.21	J	0.27	mg/Kg	6010
Chromium		19		0.68	mg/Kg	6010
Nickel		8.7		1.4	mg/Kg	6010
Vanadium		17		0.68	mg/Kg	6010
Zinc		65	B	3.4	mg/Kg	6010
Lead		51		0.68	mg/Kg	6010
Selenium		0.70		0.68	mg/Kg	6010
Sodium		140	J	190	mg/Kg	6010
Potassium		790		41	mg/Kg	6010
Calcium		3900	B	68	mg/Kg	6010
Iron		9500	B	14	mg/Kg	6010
Tin		2.1	J ^	2.8	mg/Kg	6010
Magnesium		2000		27	mg/Kg	6010
Copper		21		1.4	mg/Kg	6010
Aluminum		6500		14	mg/Kg	6010
Manganese		590	B	0.27	mg/Kg	6010
Cobalt		4.0		0.68	mg/Kg	6010
Mercury		0.070	J	0.13	mg/Kg	7471A
Percent Moisture		28		0.10	%	Moisture
Percent Solids		72		0.10	%	Moisture
Cr (VI)		0.21	J	0.28	mg/Kg	7199
Soluble						
Chloride-Soluble		24		6.1	mg/Kg	300.0
Sulfate-Soluble		510		25	mg/Kg	300.0
pH-Soluble		7.32		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		(-) 31		0.010	millivolts	SM 2580B
ASTM Leach						
Ammonia-ASTM Leach		17		3.8	mg/Kg	350.1
TOC Result 1-ASTM Leach		87		19	mg/Kg	9060
TOC Result 2-ASTM Leach		92		19	mg/Kg	9060

EXECUTIVE SUMMARY - Detections

Client: Olin Corporation

Job Number: 480-30406-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
Total Organic Carbon - Duplicates-ASTM Leach		90		19	mg/Kg	9060

EXECUTIVE SUMMARY - Detections

Client: Olin Corporation

Job Number: 480-30406-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-30406-4	**OC-SD-SD-502-XXX**					
2,4,4-Trimethyl-1-pentene		11		5.8	ug/Kg	8260C
2,4,4-Trimethyl-2-pentene		8.8		5.8	ug/Kg	8260C
2-Butanone (MEK)		25	J	29	ug/Kg	8260C
Acetone		110	J	290	ug/Kg	8260C
Benzaldehyde		1900		480	ug/Kg	8270D
3 & 4 Methylphenol		6100		480	ug/Kg	8270D
Acetophenone		260	J	480	ug/Kg	8270D
Benzo[b]fluoranthene		140	J	480	ug/Kg	8270D
Fluoranthene		290	J	480	ug/Kg	8270D
Phenanthrene		210	J	480	ug/Kg	8270D
Phenol		2200		480	ug/Kg	8270D
Pyrene		230	J	480	ug/Kg	8270D
4-Methylphenol		6100		470	ug/Kg	8270D
Arsenic		8.1		1.4	mg/Kg	6010
Barium		46		0.72	mg/Kg	6010
Beryllium		0.090	J	0.29	mg/Kg	6010
Cadmium		0.26	J	0.29	mg/Kg	6010
Chromium		27		0.72	mg/Kg	6010
Nickel		8.7		1.4	mg/Kg	6010
Vanadium		16		0.72	mg/Kg	6010
Zinc		65	B	3.6	mg/Kg	6010
Lead		50		0.72	mg/Kg	6010
Sodium		150	J	200	mg/Kg	6010
Potassium		730		43	mg/Kg	6010
Calcium		3800	B	72	mg/Kg	6010
Iron		9200	B	14	mg/Kg	6010
Tin		2.2	J ^	2.8	mg/Kg	6010
Magnesium		1800		29	mg/Kg	6010
Copper		21		1.4	mg/Kg	6010
Aluminum		6500		14	mg/Kg	6010
Manganese		440	B	0.29	mg/Kg	6010
Cobalt		3.9		0.72	mg/Kg	6010
Mercury		0.057	J	0.15	mg/Kg	7471A
Percent Moisture		31		0.10	%	Moisture
Percent Solids		69		0.10	%	Moisture
Cr (VI)		0.27	J	0.29	mg/Kg	7199
Soluble						
Chloride-Soluble		18		7.1	mg/Kg	300.0
Sulfate-Soluble		1200		28	mg/Kg	300.0
pH-Soluble		7.23		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		(-) 32		0.010	millivolts	SM 2580B
ASTM Leach						
Ammonia-ASTM Leach		35		4.0	mg/Kg	350.1
TOC Result 1-ASTM Leach		79		20	mg/Kg	9060
TOC Result 2-ASTM Leach		81		20	mg/Kg	9060

EXECUTIVE SUMMARY - Detections

Client: Olin Corporation

Job Number: 480-30406-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
Total Organic Carbon - Duplicates-ASTM Leach		80		20	mg/Kg	9060

METHOD SUMMARY

Client: Olin Corporation | Job Number: 480-30406-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds (GC/MS)	TAL BUF	MA DEP 8260C	
Closed System Purge and Trap	TAL BUF		SW846 5035
Semivolatile Organic Compounds (GC/MS) Low Level	TAL BUF	MA DEP 8270D	
Microwave Extraction	TAL BUF		SW846 3546
Metals (ICP)	TAL BUF	SW846 6010	
Preparation, Metals	TAL BUF		SW846 3050B
Mercury (CVAA)	TAL BUF	SW846 7471A	
Preparation, Mercury	TAL BUF		SW846 7471A
Anions, Ion Chromatography	TAL BUF	MCAWW 300.0	
Deionized Water Leaching Procedure	TAL BUF		ASTM DI Leach
Nitrogen, Ammonia	TAL BUF	MCAWW 350.1	
ASTM Leaching Procedure	TAL BUF		ASTM D3987-85
Distillation, Ammonia	TAL BUF		Distill/Ammonia
Organic Carbon, Total (TOC)	TAL BUF	SW846 9060	
ASTM Leaching Procedure	TAL BUF		ASTM D3987-85
Percent Moisture	TAL BUF	EPA Moisture	
Chromium, Hexavalent (IC)	TAL IRV	SW846 7199	
Alkaline Digestion (Chromium, Hexavalent)	TAL IRV		SW846 3060A
Nitrosamines by Isotope Dilution and GC/CI/MS/MS	TAL WSC	TestAmerica SOP	GCMSMS_NDMA
Ultrasonic Extraction	TAL WSC		SW846 3550B
pH	TAL WFD	SW846 9045C	
Deionized Water Leaching Procedure	TAL WFD		ASTM DI Leach
Reduction-Oxidation (REDOX) Potential	TAL WFD	SM SM 2580B	
Deionized Water Leaching Procedure	TAL WFD		ASTM DI Leach

Lab References:

TAL BUF = TestAmerica Buffalo

TAL IRV = TestAmerica Irvine

TAL WFD = TestAmerica Westfield

TAL WSC = TestAmerica Sacramento

Method References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

MA DEP = Massachusetts Department Of Environmental Protection

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

TestAmerica SOP = TestAmerica, Inc., Standard Operating Procedure

METHOD / ANALYST SUMMARY

Client: Olin Corporation

Job Number: 480-30406-1

Method	Analyst	Analyst ID
MA DEP 8260C	Byrnes, Jennifer M	JMB
MA DEP 8270D	McKernan, Ryan	RMM
SW846 6010	Hanks, Lisa	LH
SW846 6010	Hawrysiak, Allison	AH
SW846 7471A	Kacalski, Jason	JRK
TestAmerica SOP GCMSMS_NDMA	Nihart, Victoria M	VMN
MCAWW 300.0	Cudney, Kevin A	KAC
MCAWW 350.1	Shantz, Katelyn	KS
SW846 9045C	Benoit, Gary R	GRB
SW846 9060	Clark, Kyra	KC
EPA Moisture	Doyle, Matthew	MD
SM SM 2580B	Benoit, Gary R	GRB
SW846 7199	Welch, Raquel	RW

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-503-XXX**

Lab Sample ID: 480-30406-1

Client Matrix: Solid

% Moisture: 36.1

Date Sampled: 12/17/2012 1430

Date Received: 12/17/2012 1850

8260C Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C	Analysis Batch:	480-96559	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-96598	Lab File ID:	F4461.D
Dilution:	1.0			Initial Weight/Volume:	5.75 g
Analysis Date:	12/19/2012 1754			Final Weight/Volume:	5 mL
Prep Date:	12/19/2012 1330				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.68	3.4
1,1,1-Trichloroethane		ND		0.49	3.4
1,1,2,2-Tetrachloroethane		ND		1.1	3.4
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.6	3.4
1,1,2-Trichloroethane		ND		0.88	3.4
1,1-Dichloroethane		ND		0.83	3.4
1,1-Dichloroethene		ND		0.83	3.4
1,1-Dichloropropene		ND		0.97	3.4
1,2,3-Trichlorobenzene		ND		0.72	3.4
1,2,3-Trichloropropane		ND		0.69	3.4
1,2,4-Trichlorobenzene		ND		0.41	3.4
1,2,4-Trimethylbenzene		ND		1.3	3.4
1,2-Dibromo-3-Chloropropane		ND		3.4	34
1,2-Dichlorobenzene		ND		0.53	3.4
1,2-Dichloroethane		ND		0.34	3.4
1,2-Dichloropropane		ND		3.4	3.4
1,3,5-Trimethylbenzene		ND		0.44	3.4
1,3-Dichlorobenzene		ND		0.35	3.4
1,3-Dichloropropane		ND		0.41	3.4
1,4-Dichlorobenzene		ND		0.95	3.4
1,4-Dioxane		ND		33	340
2,2-Dichloropropane		ND		1.2	3.4
2,4,4-Trimethyl-1-pentene		2.4	J	0.59	6.8
2,4,4-Trimethyl-2-pentene		1.4	J	0.72	6.8
2-Butanone (MEK)		35		2.5	34
2-Chlorotoluene		ND		0.45	3.4
2-Hexanone		ND		3.4	34
4-Chlorotoluene		ND		0.80	3.4
4-Isopropyltoluene		ND		0.55	3.4
4-Methyl-2-pentanone (MIBK)		ND		2.2	34
Acetone		150	J	5.7	340
Benzene		ND		0.33	3.4
Bromobenzene		ND		1.2	3.4
Bromoform		ND		3.4	3.4
Bromomethane		ND	*	0.61	6.8
Carbon disulfide		ND		3.4	3.4
Carbon tetrachloride		ND		0.66	3.4
Chlorobenzene		ND		0.90	3.4
Chlorobromomethane		ND		0.49	3.4
Chlorodibromomethane		ND		0.87	3.4
Chloroethane		ND		1.5	6.8
Chloroform		ND		0.42	3.4
Chloromethane		ND		0.41	6.8
cis-1,2-Dichloroethene		ND		0.87	3.4
cis-1,3-Dichloropropene		ND		0.98	3.4
Cyclohexane		ND		0.95	34

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-503-XXX**

Lab Sample ID: 480-30406-1

Client Matrix: Solid

% Moisture: 36.1

Date Sampled: 12/17/2012 1430

Date Received: 12/17/2012 1850

8260C Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C	Analysis Batch:	480-96559	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-96598	Lab File ID:	F4461.D
Dilution:	1.0			Initial Weight/Volume:	5.75 g
Analysis Date:	12/19/2012 1754			Final Weight/Volume:	5 mL
Prep Date:	12/19/2012 1330				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.70	3.4
Dichlorobromomethane		ND		0.91	3.4
Dichlorodifluoromethane		ND		0.56	6.8
Ethyl ether		ND		2.9	3.4
Ethylbenzene		ND		0.47	3.4
Ethylene Dibromide		ND		0.87	3.4
Hexachlorobutadiene		ND		0.80	3.4
Isopropyl ether		ND		3.4	3.4
Isopropylbenzene		ND		1.0	3.4
Methyl acetate		ND		1.3	68
Methyl tert-butyl ether		ND		0.67	3.4
Methylcyclohexane		ND		1.0	3.4
Methylene Chloride		ND		3.1	3.4
m-Xylene & p-Xylene		ND		1.1	6.8
Naphthalene		ND		0.91	34
n-Butylbenzene		ND		0.59	3.4
N-Propylbenzene		ND		0.54	3.4
o-Xylene		ND		0.89	3.4
sec-Butylbenzene		ND		0.59	3.4
Styrene		ND		0.34	3.4
Tert-amyl methyl ether		ND		1.7	3.4
Tert-butyl ethyl ether		ND		3.0	3.4
tert-Butylbenzene		ND		0.71	3.4
Tetrachloroethene		ND		0.91	3.4
Tetrahydrofuran		ND		6.3	68
Toluene		ND		0.51	3.4
trans-1,2-Dichloroethene		ND		0.70	3.4
trans-1,3-Dichloropropene		ND		3.0	3.4
Trichloroethene		ND		1.5	3.4
Trichlorofluoromethane		ND		0.64	6.8
Vinyl chloride		ND		0.83	3.4

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	91		70 - 130
1,2-Dichloroethane-d4 (Surr)	92		70 - 130
4-Bromofluorobenzene (Surr)	88		70 - 130

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-503-XXX**

Lab Sample ID: 480-30406-1

Client Matrix: Solid

% Moisture: 36.1

Date Sampled: 12/17/2012 1430

Date Received: 12/17/2012 1850

8260C Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C	Analysis Batch:	480-96559	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-96598	Lab File ID:	F4461.D
Dilution:	1.0			Initial Weight/Volume:	5.75 g
Analysis Date:	12/19/2012 1754			Final Weight/Volume:	5 mL
Prep Date:	12/19/2012 1330				

Tentatively Identified Compounds **Number TIC's Found:** **2**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
556-67-2	Cyclotetrasiloxane, octamethyl-	9.54	9.5	T J N
119209-20-0	Decane, 5,6-dipropyl-	9.85	120	T J N

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-504-XXX**

Lab Sample ID: 480-30406-2

Client Matrix: Solid

% Moisture: 43.7

Date Sampled: 12/17/2012 1500

Date Received: 12/17/2012 1850

8260C Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C	Analysis Batch:	480-96559	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-96598	Lab File ID:	F4462.D
Dilution:	1.0			Initial Weight/Volume:	5.89 g
Analysis Date:	12/19/2012 1820			Final Weight/Volume:	5 mL
Prep Date:	12/19/2012 1330				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.75	3.8
1,1,1-Trichloroethane		ND		0.55	3.8
1,1,2,2-Tetrachloroethane		ND		1.2	3.8
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.7	3.8
1,1,2-Trichloroethane		ND		0.98	3.8
1,1-Dichloroethane		ND		0.92	3.8
1,1-Dichloroethene		ND		0.92	3.8
1,1-Dichloropropene		ND		1.1	3.8
1,2,3-Trichlorobenzene		ND		0.80	3.8
1,2,3-Trichloropropane		ND		0.77	3.8
1,2,4-Trichlorobenzene		ND		0.46	3.8
1,2,4-Trimethylbenzene		ND		1.4	3.8
1,2-Dibromo-3-Chloropropane		ND		3.8	38
1,2-Dichlorobenzene		ND		0.59	3.8
1,2-Dichloroethane		ND		0.38	3.8
1,2-Dichloropropane		ND		3.8	3.8
1,3,5-Trimethylbenzene		ND		0.49	3.8
1,3-Dichlorobenzene		ND		0.39	3.8
1,3-Dichloropropane		ND		0.45	3.8
1,4-Dichlorobenzene		ND		1.1	3.8
1,4-Dioxane		ND		36	380
2,2-Dichloropropane		ND		1.3	3.8
2,4,4-Trimethyl-1-pentene		7.8		0.65	7.5
2,4,4-Trimethyl-2-pentene		3.9	J	0.80	7.5
2-Butanone (MEK)		33	J	2.8	38
2-Chlorotoluene		ND		0.49	3.8
2-Hexanone		ND		3.8	38
4-Chlorotoluene		ND		0.89	3.8
4-Isopropyltoluene		ND		0.60	3.8
4-Methyl-2-pentanone (MIBK)		ND		2.5	38
Acetone		130	J	6.4	380
Benzene		ND		0.37	3.8
Bromobenzene		ND		1.3	3.8
Bromoform		ND		3.8	3.8
Bromomethane		ND	*	0.68	7.5
Carbon disulfide		ND		3.8	3.8
Carbon tetrachloride		ND		0.73	3.8
Chlorobenzene		ND		1.0	3.8
Chlorobromomethane		ND		0.54	3.8
Chlorodibromomethane		ND		0.97	3.8
Chloroethane		ND		1.7	7.5
Chloroform		ND		0.47	3.8
Chloromethane		ND		0.46	7.5
cis-1,2-Dichloroethene		ND		0.97	3.8
cis-1,3-Dichloropropene		ND		1.1	3.8
Cyclohexane		ND		1.1	38

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-504-XXX**

Lab Sample ID: 480-30406-2

Client Matrix: Solid

% Moisture: 43.7

Date Sampled: 12/17/2012 1500

Date Received: 12/17/2012 1850

8260C Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C	Analysis Batch:	480-96559	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-96598	Lab File ID:	F4462.D
Dilution:	1.0			Initial Weight/Volume:	5.89 g
Analysis Date:	12/19/2012 1820			Final Weight/Volume:	5 mL
Prep Date:	12/19/2012 1330				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.78	3.8
Dichlorobromomethane		ND		1.0	3.8
Dichlorodifluoromethane		ND		0.62	7.5
Ethyl ether		ND		3.2	3.8
Ethylbenzene		ND		0.52	3.8
Ethylene Dibromide		ND		0.97	3.8
Hexachlorobutadiene		ND		0.88	3.8
Isopropyl ether		ND		3.8	3.8
Isopropylbenzene		ND		1.1	3.8
Methyl acetate		ND		1.4	75
Methyl tert-butyl ether		ND		0.74	3.8
Methylcyclohexane		ND		1.1	3.8
Methylene Chloride		ND		3.5	3.8
m-Xylene & p-Xylene		ND		1.3	7.5
Naphthalene		ND		1.0	38
n-Butylbenzene		ND		0.66	3.8
N-Propylbenzene		ND		0.60	3.8
o-Xylene		ND		0.99	3.8
sec-Butylbenzene		ND		0.66	3.8
Styrene		ND		0.38	3.8
Tert-amyl methyl ether		ND		1.9	3.8
Tert-butyl ethyl ether		ND		3.3	3.8
tert-Butylbenzene		ND		0.78	3.8
Tetrachloroethene		ND		1.0	3.8
Tetrahydrofuran		ND		6.9	75
Toluene		ND		0.57	3.8
trans-1,2-Dichloroethene		ND		0.78	3.8
trans-1,3-Dichloropropene		ND		3.3	3.8
Trichloroethene		ND		1.7	3.8
Trichlorofluoromethane		ND		0.71	7.5
Vinyl chloride		ND		0.92	3.8

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	92		70 - 130
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
4-Bromofluorobenzene (Surr)	89		70 - 130

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-504-XXX**

Lab Sample ID: 480-30406-2

Client Matrix: Solid

% Moisture: 43.7

Date Sampled: 12/17/2012 1500

Date Received: 12/17/2012 1850

8260C Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C	Analysis Batch:	480-96559	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-96598	Lab File ID:	F4462.D
Dilution:	1.0			Initial Weight/Volume:	5.89 g
Analysis Date:	12/19/2012 1820			Final Weight/Volume:	5 mL
Prep Date:	12/19/2012 1330				

Tentatively Identified Compounds **Number TIC's Found:** **3**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
15220-85-6	1-Propene, 2-methyl-, tetramer	13.15	21	T J N
4390-4-9	Nonane, 2,2,4,4,6,8,8-heptamethyl-	13.29	11	T J N
15220-85-6	1-Propene, 2-methyl-, tetramer	13.37	11	T J N

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-501-XXX**

Lab Sample ID: 480-30406-3

Client Matrix: Solid

% Moisture: 28.5

Date Sampled: 12/17/2012 1215

Date Received: 12/17/2012 1850

8260C Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C	Analysis Batch:	480-96559	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-96598	Lab File ID:	F4463.D
Dilution:	1.0			Initial Weight/Volume:	6.89 g
Analysis Date:	12/19/2012 1846			Final Weight/Volume:	5 mL
Prep Date:	12/19/2012 1330				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane		ND		0.51	2.5
1,1,1-Trichloroethane		ND		0.37	2.5
1,1,2,2-Tetrachloroethane		ND		0.82	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.2	2.5
1,1,2-Trichloroethane		ND		0.66	2.5
1,1-Dichloroethane		ND		0.62	2.5
1,1-Dichloroethene		ND		0.62	2.5
1,1-Dichloropropene		ND		0.72	2.5
1,2,3-Trichlorobenzene		ND		0.54	2.5
1,2,3-Trichloropropane		ND		0.52	2.5
1,2,4-Trichlorobenzene		ND		0.31	2.5
1,2,4-Trimethylbenzene		ND		0.97	2.5
1,2-Dibromo-3-Chloropropane		ND		2.5	25
1,2-Dichlorobenzene		ND		0.40	2.5
1,2-Dichloroethane		ND		0.25	2.5
1,2-Dichloropropane		ND		2.5	2.5
1,3,5-Trimethylbenzene		ND		0.33	2.5
1,3-Dichlorobenzene		ND		0.26	2.5
1,3-Dichloropropane		ND		0.30	2.5
1,4-Dichlorobenzene		ND		0.71	2.5
1,4-Dioxane		ND		24	250
2,2-Dichloropropane		ND		0.86	2.5
2,4,4-Trimethyl-1-pentene		ND		0.44	5.1
2,4,4-Trimethyl-2-pentene		ND		0.54	5.1
2-Butanone (MEK)		27		1.9	25
2-Chlorotoluene		ND		0.33	2.5
2-Hexanone		ND		2.5	25
4-Chlorotoluene		ND		0.60	2.5
4-Isopropyltoluene		ND		0.41	2.5
4-Methyl-2-pentanone (MIBK)		ND		1.7	25
Acetone		120	J	4.3	250
Benzene		ND		0.25	2.5
Bromobenzene		ND		0.89	2.5
Bromoform		ND		2.5	2.5
Bromomethane		ND	*	0.46	5.1
Carbon disulfide		ND		2.5	2.5
Carbon tetrachloride		ND		0.49	2.5
Chlorobenzene		ND		0.67	2.5
Chlorobromomethane		ND		0.37	2.5
Chlorodibromomethane		ND		0.65	2.5
Chloroethane		ND		1.1	5.1
Chloroform		ND		0.31	2.5
Chloromethane		ND		0.31	5.1
cis-1,2-Dichloroethene		ND		0.65	2.5
cis-1,3-Dichloropropene		ND		0.73	2.5
Cyclohexane		ND		0.71	25

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-501-XXX**

Lab Sample ID: 480-30406-3

Client Matrix: Solid

% Moisture: 28.5

Date Sampled: 12/17/2012 1215

Date Received: 12/17/2012 1850

8260C Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C	Analysis Batch:	480-96559	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-96598	Lab File ID:	F4463.D
Dilution:	1.0			Initial Weight/Volume:	6.89 g
Analysis Date:	12/19/2012 1846			Final Weight/Volume:	5 mL
Prep Date:	12/19/2012 1330				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.52	2.5
Dichlorobromomethane		ND		0.68	2.5
Dichlorodifluoromethane		ND		0.42	5.1
Ethyl ether		ND		2.1	2.5
Ethylbenzene		ND		0.35	2.5
Ethylene Dibromide		ND		0.65	2.5
Hexachlorobutadiene		ND		0.59	2.5
Isopropyl ether		ND		2.5	2.5
Isopropylbenzene		ND		0.77	2.5
Methyl acetate		ND		0.94	51
Methyl tert-butyl ether		1.7	J	0.50	2.5
Methylcyclohexane		ND		0.77	2.5
Methylene Chloride		ND		2.3	2.5
m-Xylene & p-Xylene		ND		0.85	5.1
Naphthalene		ND		0.68	25
n-Butylbenzene		ND		0.44	2.5
N-Propylbenzene		ND		0.41	2.5
o-Xylene		ND		0.66	2.5
sec-Butylbenzene		ND		0.44	2.5
Styrene		ND		0.25	2.5
Tert-amyl methyl ether		ND		1.3	2.5
Tert-butyl ethyl ether		ND		2.2	2.5
tert-Butylbenzene		ND		0.53	2.5
Tetrachloroethene		ND		0.68	2.5
Tetrahydrofuran		ND		4.7	51
Toluene		0.98	J	0.38	2.5
trans-1,2-Dichloroethene		ND		0.52	2.5
trans-1,3-Dichloropropene		ND		2.2	2.5
Trichloroethene		ND		1.1	2.5
Trichlorofluoromethane		ND		0.48	5.1
Vinyl chloride		ND		0.62	2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	90		70 - 130
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
4-Bromofluorobenzene (Surr)	88		70 - 130

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-501-XXX**

Lab Sample ID: 480-30406-3

Client Matrix: Solid

% Moisture: 28.5

Date Sampled: 12/17/2012 1215

Date Received: 12/17/2012 1850

8260C Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C	Analysis Batch:	480-96559	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-96598	Lab File ID:	F4463.D
Dilution:	1.0			Initial Weight/Volume:	6.89 g
Analysis Date:	12/19/2012 1846			Final Weight/Volume:	5 mL
Prep Date:	12/19/2012 1330				

Tentatively Identified Compounds **Number TIC's Found:** **2**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
556-67-2	Cyclotetrasiloxane, octamethyl-	9.54	8.2	T J N
473-19-8	Bicyclo[2.2.1]heptane, 2,2,3-trimethyl-	10.03	13	T J N

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-502-XXX**

Lab Sample ID: 480-30406-4

Client Matrix: Solid

% Moisture: 30.6

Date Sampled: 12/17/2012 1245

Date Received: 12/17/2012 1850

8260C Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C	Analysis Batch:	480-96559	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-96598	Lab File ID:	F4464.D
Dilution:	1.0			Initial Weight/Volume:	6.25 g
Analysis Date:	12/19/2012 1911			Final Weight/Volume:	5 mL
Prep Date:	12/19/2012 1330				

Analyte DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.58	2.9
1,1,1-Trichloroethane	ND		0.42	2.9
1,1,2,2-Tetrachloroethane	ND		0.93	2.9
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.3	2.9
1,1,2-Trichloroethane	ND		0.75	2.9
1,1-Dichloroethane	ND		0.70	2.9
1,1-Dichloroethene	ND		0.71	2.9
1,1-Dichloropropene	ND		0.82	2.9
1,2,3-Trichlorobenzene	ND		0.61	2.9
1,2,3-Trichloropropane	ND		0.59	2.9
1,2,4-Trichlorobenzene	ND		0.35	2.9
1,2,4-Trimethylbenzene	ND		1.1	2.9
1,2-Dibromo-3-Chloropropane	ND		2.9	29
1,2-Dichlorobenzene	ND		0.45	2.9
1,2-Dichloroethane	ND		0.29	2.9
1,2-Dichloropropane	ND		2.9	2.9
1,3,5-Trimethylbenzene	ND		0.37	2.9
1,3-Dichlorobenzene	ND		0.30	2.9
1,3-Dichloropropane	ND		0.35	2.9
1,4-Dichlorobenzene	ND		0.81	2.9
1,4-Dioxane	ND		28	290
2,2-Dichloropropane	ND		0.98	2.9
2,4,4-Trimethyl-1-pentene	11		0.50	5.8
2,4,4-Trimethyl-2-pentene	8.8		0.61	5.8
2-Butanone (MEK)	25	J	2.1	29
2-Chlorotoluene	ND		0.38	2.9
2-Hexanone	ND		2.9	29
4-Chlorotoluene	ND		0.68	2.9
4-Isopropyltoluene	ND		0.46	2.9
4-Methyl-2-pentanone (MIBK)	ND		1.9	29
Acetone	110	J	4.9	290
Benzene	ND		0.28	2.9
Bromobenzene	ND		1.0	2.9
Bromoform	ND		2.9	2.9
Bromomethane	ND	*	0.52	5.8
Carbon disulfide	ND		2.9	2.9
Carbon tetrachloride	ND		0.56	2.9
Chlorobenzene	ND		0.76	2.9
Chlorobromomethane	ND		0.42	2.9
Chlorodibromomethane	ND		0.74	2.9
Chloroethane	ND		1.3	5.8
Chloroform	ND		0.36	2.9
Chloromethane	ND		0.35	5.8
cis-1,2-Dichloroethene	ND		0.74	2.9
cis-1,3-Dichloropropene	ND		0.83	2.9
Cyclohexane	ND		0.81	29

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-502-XXX**

Lab Sample ID: 480-30406-4

Client Matrix: Solid

% Moisture: 30.6

Date Sampled: 12/17/2012 1245

Date Received: 12/17/2012 1850

8260C Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C	Analysis Batch:	480-96559	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-96598	Lab File ID:	F4464.D
Dilution:	1.0			Initial Weight/Volume:	6.25 g
Analysis Date:	12/19/2012 1911			Final Weight/Volume:	5 mL
Prep Date:	12/19/2012 1330				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromomethane		ND		0.59	2.9
Dichlorobromomethane		ND		0.77	2.9
Dichlorodifluoromethane		ND		0.48	5.8
Ethyl ether		ND		2.4	2.9
Ethylbenzene		ND		0.40	2.9
Ethylene Dibromide		ND		0.74	2.9
Hexachlorobutadiene		ND		0.68	2.9
Isopropyl ether		ND		2.9	2.9
Isopropylbenzene		ND		0.87	2.9
Methyl acetate		ND		1.1	58
Methyl tert-butyl ether		ND		0.57	2.9
Methylcyclohexane		ND		0.88	2.9
Methylene Chloride		ND		2.7	2.9
m-Xylene & p-Xylene		ND		0.97	5.8
Naphthalene		ND		0.77	29
n-Butylbenzene		ND		0.50	2.9
N-Propylbenzene		ND		0.46	2.9
o-Xylene		ND		0.75	2.9
sec-Butylbenzene		ND		0.50	2.9
Styrene		ND		0.29	2.9
Tert-amyl methyl ether		ND		1.5	2.9
Tert-butyl ethyl ether		ND		2.5	2.9
tert-Butylbenzene		ND		0.60	2.9
Tetrachloroethene		ND		0.77	2.9
Tetrahydrofuran		ND		5.3	58
Toluene		ND		0.44	2.9
trans-1,2-Dichloroethene		ND		0.59	2.9
trans-1,3-Dichloropropene		ND		2.5	2.9
Trichloroethene		ND		1.3	2.9
Trichlorofluoromethane		ND		0.55	5.8
Vinyl chloride		ND		0.70	2.9

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	92		70 - 130
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
4-Bromofluorobenzene (Surr)	90		70 - 130

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-502-XXX**

Lab Sample ID: 480-30406-4

Client Matrix: Solid

% Moisture: 30.6

Date Sampled: 12/17/2012 1245

Date Received: 12/17/2012 1850

8260C Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C	Analysis Batch:	480-96559	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-96598	Lab File ID:	F4464.D
Dilution:	1.0			Initial Weight/Volume:	6.25 g
Analysis Date:	12/19/2012 1911			Final Weight/Volume:	5 mL
Prep Date:	12/19/2012 1330				

Tentatively Identified Compounds **Number TIC's Found:** **2**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
1066-40-6	Silanol, trimethyl-	4.48	6.6	T J N
473-19-8	Bicyclo[2.2.1]heptane, 2,2,3-trimethyl-	10.03	7.0	T J N

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-503-XXX**

Lab Sample ID: 480-30406-1

Client Matrix: Solid

% Moisture: 36.1

Date Sampled: 12/17/2012 1430

Date Received: 12/17/2012 1850

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

Analysis Method:	8270D	Analysis Batch:	480-97046	Instrument ID:	HP5973X
Prep Method:	3546	Prep Batch:	480-96561	Lab File ID:	X3227.D
Dilution:	10			Initial Weight/Volume:	000030.1 g
Analysis Date:	12/21/2012 1220			Final Weight/Volume:	1 mL
Prep Date:	12/19/2012 0946			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,2,4-Trichlorobenzene		ND		160	520
1,2-Dichlorobenzene		ND		160	520
1,3-Dichlorobenzene		ND		160	520
Benzaldehyde		1300		160	520
1,4-Dichlorobenzene		ND		160	520
2,2'-oxybis[1-chloropropane]		ND		160	520
2,4,5-Trichlorophenol		ND		170	520
2,4,6-Trichlorophenol		ND		220	520
Benzyl alcohol		ND		160	1000
2,4-Dichlorophenol		ND		160	520
2,4-Dimethylphenol		ND		160	520
2,4-Dinitrophenol		ND	*	420	520
2,4-Dinitrotoluene		ND		160	520
4-Nitroaniline		ND		440	2600
2,6-Dinitrotoluene		ND		440	520
2-Chloronaphthalene		ND		160	520
2-Chlorophenol		ND		160	520
N-Nitrosodiphenylamine		330	J	160	520
2-Methylnaphthalene		ND		160	520
2-Methylphenol		ND		160	520
2-Nitrophenol		ND		200	520
3 & 4 Methylphenol		4000		160	520
3,3'-Dichlorobenzidine		ND		190	1000
2-Nitroaniline		ND		650	2600
Hexachlorocyclopentadiene		ND		160	1000
4-Chloroaniline		ND		470	1000
4-Nitrophenol		ND	*	220	2600
Acenaphthene		ND		160	520
4,6-Dinitro-2-methylphenol		ND		500	2600
1,2,4,5-Tetrachlorobenzene		ND		160	520
Acenaphthylene		ND		160	520
Acetophenone		160	J	160	520
Aniline		ND		160	520
Anthracene		ND		160	520
Atrazine		ND		160	520
Azobenzene		ND	*	160	520
Benzo[a]anthracene		ND		160	520
Benzo[a]pyrene		ND		160	520
Benzo[b]fluoranthene		ND		160	520
Benzo[g,h,i]perylene		ND		160	520
Caprolactam		ND		160	520
3-Nitroaniline		ND		160	2600
Benzo[k]fluoranthene		ND		270	520
Bis(2-chloroethoxy)methane		ND		160	520
1,1'-Biphenyl		ND		160	520
Bis(2-chloroethyl)ether		ND		160	520

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-503-XXX**

Lab Sample ID: 480-30406-1

Client Matrix: Solid

% Moisture: 36.1

Date Sampled: 12/17/2012 1430

Date Received: 12/17/2012 1850

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

Analysis Method:	8270D	Analysis Batch:	480-97046	Instrument ID:	HP5973X
Prep Method:	3546	Prep Batch:	480-96561	Lab File ID:	X3227.D
Dilution:	10			Initial Weight/Volume:	000030.1 g
Analysis Date:	12/21/2012 1220			Final Weight/Volume:	1 mL
Prep Date:	12/19/2012 0946			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Bis(2-ethylhexyl) phthalate		3100		1000	2600
Butyl benzyl phthalate		ND		160	520
Chrysene		ND		160	520
N-Nitrosodi-n-propylamine		ND		160	520
Benzoic acid		ND		230	2600
Dibenz(a,h)anthracene		ND		160	520
Dibenzofuran		ND		160	520
Diethyl phthalate		ND		170	520
Dimethyl phthalate		ND		160	520
Di-n-butyl phthalate		ND		780	2600
Di-n-octyl phthalate		ND		160	520
Phenyl ether		ND		160	520
2,3,4,6-Tetrachlorophenol		ND		160	520
Fluoranthene		ND		160	520
4-Chloro-3-methylphenol		ND		160	1000
Fluorene		ND		160	520
4-Chlorophenyl phenyl ether		ND		160	520
Hexachlorobenzene		ND		160	520
Hexachlorobutadiene		ND		160	520
Hexachloroethane		ND		160	520
Indeno[1,2,3-cd]pyrene		ND		160	520
Isophorone		ND		160	520
Naphthalene		ND		160	520
Nitrobenzene		ND		160	520
Pentachlorophenol		ND		160	520
Phenanthrene		ND		160	520
Benzophenone		ND		160	520
Phenol		1900		160	520
Pyrene		ND		160	520
N-Nitrosodimethylamine		ND		160	520
Carbazole		ND		160	520
1-Methylnaphthalene		ND		160	520
4-Methylphenol		4000		160	520

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	0	X	30 - 130
2-Fluorophenol	0	X	30 - 130
Nitrobenzene-d5	0	X	30 - 130
Phenol-d5	0	X	30 - 130
2-Fluorobiphenyl	0	X	30 - 130
p-Terphenyl-d14	0	X	30 - 130

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-503-XXX**

Lab Sample ID: 480-30406-1

Client Matrix: Solid

% Moisture: 36.1

Date Sampled: 12/17/2012 1430

Date Received: 12/17/2012 1850

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

Analysis Method:	8270D	Analysis Batch:	480-97046	Instrument ID:	HP5973X
Prep Method:	3546	Prep Batch:	480-96561	Lab File ID:	X3227.D
Dilution:	10			Initial Weight/Volume:	000030.1 g
Analysis Date:	12/21/2012 1220			Final Weight/Volume:	1 mL
Prep Date:	12/19/2012 0946			Injection Volume:	1 uL

Tentatively Identified Compounds **Number TIC's Found:** **10**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	4.18	6200	T J
108-38-3	Benzene, 1,3-dimethyl-	4.66	1500	T J N
	Unknown	12.93	1300	T J
	Unknown	13.78	1100	T J
483-65-8	Phenanthrene, 1-methyl-7-(1-methylethyl)	14.91	1900	T J N
	Unknown	15.07	3100	T J
	Unknown	15.19	1700	T J
18956-15-5	2-Propen-1-one, 1-(2,6-dihydroxy-4-metho	15.48	1100	T J N
	Unknown	16.07	760	T J
26603-23-6	p,p'-Dioctyldiphenylamine	17.01	31000	T J N

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-504-XXX**

Lab Sample ID: 480-30406-2

Client Matrix: Solid

% Moisture: 43.7

Date Sampled: 12/17/2012 1500

Date Received: 12/17/2012 1850

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

Analysis Method:	8270D	Analysis Batch:	480-97046	Instrument ID:	HP5973X
Prep Method:	3546	Prep Batch:	480-96561	Lab File ID:	X3228.D
Dilution:	10			Initial Weight/Volume:	000030.8 g
Analysis Date:	12/21/2012 1245			Final Weight/Volume:	1 mL
Prep Date:	12/19/2012 0946			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,2,4-Trichlorobenzene		ND		170	580
1,2-Dichlorobenzene		ND		170	580
1,3-Dichlorobenzene		ND		170	580
Benzaldehyde		620		170	580
1,4-Dichlorobenzene		ND		170	580
2,2'-oxybis[1-chloropropane]		ND		170	580
2,4,5-Trichlorophenol		ND		190	580
2,4,6-Trichlorophenol		ND		240	580
Benzyl alcohol		ND		170	1200
2,4-Dichlorophenol		ND		170	580
2,4-Dimethylphenol		ND		170	580
2,4-Dinitrophenol		ND	*	470	580
2,4-Dinitrotoluene		ND		170	580
4-Nitroaniline		ND		480	2900
2,6-Dinitrotoluene		ND		480	580
2-Chloronaphthalene		ND		170	580
2-Chlorophenol		ND		170	580
N-Nitrosodiphenylamine		ND		170	580
2-Methylnaphthalene		ND		170	580
2-Methylphenol		ND		170	580
2-Nitrophenol		ND		230	580
3 & 4 Methylphenol		1800		170	580
3,3'-Dichlorobenzidine		ND		210	1200
2-Nitroaniline		ND		730	2900
Hexachlorocyclopentadiene		ND		170	1200
4-Chloroaniline		ND		520	1200
4-Nitrophenol		ND	*	240	2900
Acenaphthene		ND		170	580
4,6-Dinitro-2-methylphenol		ND		550	2900
1,2,4,5-Tetrachlorobenzene		ND		170	580
Acenaphthylene		ND		170	580
Acetophenone		ND		170	580
Aniline		ND		170	580
Anthracene		ND		170	580
Atrazine		ND		170	580
Azobenzene		ND	*	170	580
Benzo[a]anthracene		ND		170	580
Benzo[a]pyrene		220	J	170	580
Benzo[b]fluoranthene		ND		170	580
Benzo[g,h,i]perylene		ND		170	580
Caprolactam		ND		170	580
3-Nitroaniline		ND		170	2900
Benzo[k]fluoranthene		ND		290	580
Bis(2-chloroethoxy)methane		ND		170	580
1,1'-Biphenyl		ND		170	580
Bis(2-chloroethyl)ether		ND		170	580

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-504-XXX**

Lab Sample ID: 480-30406-2

Client Matrix: Solid

% Moisture: 43.7

Date Sampled: 12/17/2012 1500

Date Received: 12/17/2012 1850

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

Analysis Method:	8270D	Analysis Batch:	480-97046	Instrument ID:	HP5973X
Prep Method:	3546	Prep Batch:	480-96561	Lab File ID:	X3228.D
Dilution:	10			Initial Weight/Volume:	000030.8 g
Analysis Date:	12/21/2012 1245			Final Weight/Volume:	1 mL
Prep Date:	12/19/2012 0946			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Bis(2-ethylhexyl) phthalate		ND		1200	2900
Butyl benzyl phthalate		ND		170	580
Chrysene		ND		170	580
N-Nitrosodi-n-propylamine		ND		170	580
Benzoic acid		ND		260	2900
Dibenz(a,h)anthracene		ND		170	580
Dibenzofuran		ND		170	580
Diethyl phthalate		ND		190	580
Dimethyl phthalate		ND		170	580
Di-n-butyl phthalate		ND		870	2900
Di-n-octyl phthalate		ND		170	580
Phenyl ether		ND		170	580
2,3,4,6-Tetrachlorophenol		ND		170	580
Fluoranthene		ND		170	580
4-Chloro-3-methylphenol		ND		170	1200
Fluorene		ND		170	580
4-Chlorophenyl phenyl ether		ND		170	580
Hexachlorobenzene		ND		170	580
Hexachlorobutadiene		ND		170	580
Hexachloroethane		ND		170	580
Indeno[1,2,3-cd]pyrene		ND		170	580
Isophorone		ND		170	580
Naphthalene		ND		170	580
Nitrobenzene		ND		170	580
Pentachlorophenol		ND		170	580
Phenanthrene		ND		170	580
Benzophenone		ND		170	580
Phenol		1400		170	580
Pyrene		ND		170	580
N-Nitrosodimethylamine		ND		170	580
Carbazole		ND		170	580
1-Methylnaphthalene		ND		170	580
4-Methylphenol		1800		170	580

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	0	X	30 - 130
2-Fluorophenol	0	X	30 - 130
Nitrobenzene-d5	0	X	30 - 130
Phenol-d5	0	X	30 - 130
2-Fluorobiphenyl	0	X	30 - 130
p-Terphenyl-d14	59		30 - 130

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-504-XXX**

Lab Sample ID: 480-30406-2

Client Matrix: Solid

% Moisture: 43.7

Date Sampled: 12/17/2012 1500

Date Received: 12/17/2012 1850

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

Analysis Method:	8270D	Analysis Batch:	480-97046	Instrument ID:	HP5973X
Prep Method:	3546	Prep Batch:	480-96561	Lab File ID:	X3228.D
Dilution:	10			Initial Weight/Volume:	000030.8 g
Analysis Date:	12/21/2012 1245			Final Weight/Volume:	1 mL
Prep Date:	12/19/2012 0946			Injection Volume:	1 uL

Tentatively Identified Compounds **Number TIC's Found:** **10**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.18	940	T J
	Unknown	4.19	8400	T J
	Unknown	4.66	2400	T J
	Unknown	5.54	650	T J
289-16-7	1,2,4-Trithiolane	7.61	550	T J N
	Unknown	12.40	610	T J
	Unknown	12.94	870	T J
	Unknown	13.78	830	T J
	Unknown	15.07	700	T J
	Unknown	15.21	1300	T J

Client: Olin Corporation | Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-501-XXX**

Lab Sample ID: 480-30406-3 | Date Sampled: 12/17/2012 1215
Client Matrix: Solid | % Moisture: 28.5 | Date Received: 12/17/2012 1850

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

Analysis Method:	8270D	Analysis Batch:	480-97046	Instrument ID:	HP5973X
Prep Method:	3546	Prep Batch:	480-96561	Lab File ID:	X3229.D
Dilution:	10			Initial Weight/Volume:	000030.6 g
Analysis Date:	12/21/2012 1311			Final Weight/Volume:	1 mL
Prep Date:	12/19/2012 0946			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,2,4-Trichlorobenzene		ND		140	460
1,2-Dichlorobenzene		ND		140	460
1,3-Dichlorobenzene		ND		140	460
Benzaldehyde		1400		140	460
1,4-Dichlorobenzene		ND		140	460
2,2'-oxybis[1-chloropropane]		ND		140	460
2,4,5-Trichlorophenol		ND		150	460
2,4,6-Trichlorophenol		ND		190	460
Benzyl alcohol		ND		140	910
2,4-Dichlorophenol		ND		140	460
2,4-Dimethylphenol		ND		140	460
2,4-Dinitrophenol		ND	*	370	460
2,4-Dinitrotoluene		ND		140	460
4-Nitroaniline		ND		380	2300
2,6-Dinitrotoluene		ND		380	460
2-Chloronaphthalene		ND		140	460
2-Chlorophenol		ND		140	460
N-Nitrosodiphenylamine		ND		140	460
2-Methylnaphthalene		ND		140	460
2-Methylphenol		ND		140	460
2-Nitrophenol		ND		180	460
3 & 4 Methylphenol		4300		140	460
3,3'-Dichlorobenzidine		ND		160	910
2-Nitroaniline		ND		580	2300
Hexachlorocyclopentadiene		ND		140	910
4-Chloroaniline		ND		410	910
4-Nitrophenol		ND	*	190	2300
Acenaphthene		ND		140	460
4,6-Dinitro-2-methylphenol		ND		440	2300
1,2,4,5-Tetrachlorobenzene		ND		140	460
Acenaphthylene		ND		140	460
Acetophenone		150	J	140	460
Aniline		ND		140	460
Anthracene		ND		140	460
Atrazine		ND		140	460
Azobenzene		ND	*	140	460
Benzo[a]anthracene		ND		140	460
Benzo[a]pyrene		ND		140	460
Benzo[b]fluoranthene		ND		140	460
Benzo[g,h,i]perylene		ND		140	460
Caprolactam		ND		140	460
3-Nitroaniline		ND		140	2300
Benzo[k]fluoranthene		ND		230	460
Bis(2-chloroethoxy)methane		ND		140	460
1,1'-Biphenyl		ND		140	460
Bis(2-chloroethyl)ether		ND		140	460

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-501-XXX**

Lab Sample ID: 480-30406-3

Client Matrix: Solid

% Moisture: 28.5

Date Sampled: 12/17/2012 1215

Date Received: 12/17/2012 1850

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

Analysis Method:	8270D	Analysis Batch:	480-97046	Instrument ID:	HP5973X
Prep Method:	3546	Prep Batch:	480-96561	Lab File ID:	X3229.D
Dilution:	10			Initial Weight/Volume:	000030.6 g
Analysis Date:	12/21/2012 1311			Final Weight/Volume:	1 mL
Prep Date:	12/19/2012 0946			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Bis(2-ethylhexyl) phthalate		ND		920	2300
Butyl benzyl phthalate		ND		140	460
Chrysene		ND		140	460
N-Nitrosodi-n-propylamine		ND		140	460
Benzoic acid		ND		210	2300
Dibenz(a,h)anthracene		ND		140	460
Dibenzofuran		ND		140	460
Diethyl phthalate		ND		150	460
Dimethyl phthalate		ND		140	460
Di-n-butyl phthalate		ND		690	2300
Di-n-octyl phthalate		ND		140	460
Phenyl ether		ND		140	460
2,3,4,6-Tetrachlorophenol		ND		140	460
Fluoranthene		210	J	140	460
4-Chloro-3-methylphenol		ND		140	910
Fluorene		ND		140	460
4-Chlorophenyl phenyl ether		ND		140	460
Hexachlorobenzene		ND		140	460
Hexachlorobutadiene		ND		140	460
Hexachloroethane		ND		140	460
Indeno[1,2,3-cd]pyrene		ND		140	460
Isophorone		ND		140	460
Naphthalene		ND		140	460
Nitrobenzene		ND		140	460
Pentachlorophenol		ND		140	460
Phenanthrene		ND		140	460
Benzophenone		ND		140	460
Phenol		1700		140	460
Pyrene		180	J	140	460
N-Nitrosodimethylamine		ND		140	460
Carbazole		ND		140	460
1-Methylnaphthalene		ND		140	460
4-Methylphenol		4300		140	460

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	0	X	30 - 130
2-Fluorophenol	0	X	30 - 130
Nitrobenzene-d5	0	X	30 - 130
Phenol-d5	0	X	30 - 130
2-Fluorobiphenyl	0	X	30 - 130
p-Terphenyl-d14	50		30 - 130

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-501-XXX**

Lab Sample ID: 480-30406-3

Client Matrix: Solid

% Moisture: 28.5

Date Sampled: 12/17/2012 1215

Date Received: 12/17/2012 1850

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

Analysis Method:	8270D	Analysis Batch:	480-97046	Instrument ID:	HP5973X
Prep Method:	3546	Prep Batch:	480-96561	Lab File ID:	X3229.D
Dilution:	10			Initial Weight/Volume:	000030.6 g
Analysis Date:	12/21/2012 1311			Final Weight/Volume:	1 mL
Prep Date:	12/19/2012 0946			Injection Volume:	1 uL

Tentatively Identified Compounds **Number TIC's Found:** **10**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	4.15	6600	T J
95-47-6	Benzene, 1,2-dimethyl-	4.63	1500	T J N
	Unknown	8.53	620	T J
	Unknown	9.81	1400	T J
57-10-3	n-Hexadecanoic acid	13.78	1500	T J N
	Unknown	14.47	1300	T J
	Unknown	15.20	840	T J
	Unknown	15.49	990	T J
630-3-5	Nonacosane	17.31	900	T J N
	Unknown	18.61	1000	T J

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-502-XXX**

Lab Sample ID: 480-30406-4

Client Matrix: Solid

% Moisture: 30.6

Date Sampled: 12/17/2012 1245

Date Received: 12/17/2012 1850

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

Analysis Method:	8270D	Analysis Batch:	480-97046	Instrument ID:	HP5973X
Prep Method:	3546	Prep Batch:	480-96561	Lab File ID:	X3230.D
Dilution:	10			Initial Weight/Volume:	000030.3 g
Analysis Date:	12/21/2012 1337			Final Weight/Volume:	1 mL
Prep Date:	12/19/2012 0946			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,2,4-Trichlorobenzene		ND		140	480
1,2-Dichlorobenzene		ND		140	480
1,3-Dichlorobenzene		ND		140	480
Benzaldehyde		1900		140	480
1,4-Dichlorobenzene		ND		140	480
2,2'-oxybis[1-chloropropane]		ND		140	480
2,4,5-Trichlorophenol		ND		160	480
2,4,6-Trichlorophenol		ND		200	480
Benzyl alcohol		ND		140	950
2,4-Dichlorophenol		ND		140	480
2,4-Dimethylphenol		ND		140	480
2,4-Dinitrophenol		ND	*	390	480
2,4-Dinitrotoluene		ND		140	480
4-Nitroaniline		ND		400	2400
2,6-Dinitrotoluene		ND		400	480
2-Chloronaphthalene		ND		140	480
2-Chlorophenol		ND		140	480
N-Nitrosodiphenylamine		ND		140	480
2-Methylnaphthalene		ND		140	480
2-Methylphenol		ND		140	480
2-Nitrophenol		ND		190	480
3 & 4 Methylphenol		6100		140	480
3,3'-Dichlorobenzidine		ND		170	950
2-Nitroaniline		ND		600	2400
Hexachlorocyclopentadiene		ND		140	950
4-Chloroaniline		ND		430	950
4-Nitrophenol		ND	*	200	2400
Acenaphthene		ND		140	480
4,6-Dinitro-2-methylphenol		ND		460	2400
1,2,4,5-Tetrachlorobenzene		ND		140	480
Acenaphthylene		ND		140	480
Acetophenone		260	J	140	480
Aniline		ND		140	480
Anthracene		ND		140	480
Atrazine		ND		140	480
Azobenzene		ND	*	140	480
Benzo[a]anthracene		ND		140	480
Benzo[a]pyrene		ND		140	480
Benzo[b]fluoranthene		140	J	140	480
Benzo[g,h,i]perylene		ND		140	480
Caprolactam		ND		140	480
3-Nitroaniline		ND		140	2400
Benzo[k]fluoranthene		ND		240	480
Bis(2-chloroethoxy)methane		ND		140	480
1,1'-Biphenyl		ND		140	480
Bis(2-chloroethyl)ether		ND		140	480

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-502-XXX**

Lab Sample ID: 480-30406-4

Client Matrix: Solid

% Moisture: 30.6

Date Sampled: 12/17/2012 1245

Date Received: 12/17/2012 1850

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

Analysis Method:	8270D	Analysis Batch:	480-97046	Instrument ID:	HP5973X
Prep Method:	3546	Prep Batch:	480-96561	Lab File ID:	X3230.D
Dilution:	10			Initial Weight/Volume:	000030.3 g
Analysis Date:	12/21/2012 1337			Final Weight/Volume:	1 mL
Prep Date:	12/19/2012 0946			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Bis(2-ethylhexyl) phthalate		ND		960	2400
Butyl benzyl phthalate		ND		140	480
Chrysene		ND		140	480
N-Nitrosodi-n-propylamine		ND		140	480
Benzoic acid		ND		210	2400
Dibenz(a,h)anthracene		ND		140	480
Dibenzofuran		ND		140	480
Diethyl phthalate		ND		160	480
Dimethyl phthalate		ND		140	480
Di-n-butyl phthalate		ND		710	2400
Di-n-octyl phthalate		ND		140	480
Phenyl ether		ND		140	480
2,3,4,6-Tetrachlorophenol		ND		140	480
Fluoranthene		290	J	140	480
4-Chloro-3-methylphenol		ND		140	950
Fluorene		ND		140	480
4-Chlorophenyl phenyl ether		ND		140	480
Hexachlorobenzene		ND		140	480
Hexachlorobutadiene		ND		140	480
Hexachloroethane		ND		140	480
Indeno[1,2,3-cd]pyrene		ND		140	480
Isophorone		ND		140	480
Naphthalene		ND		140	480
Nitrobenzene		ND		140	480
Pentachlorophenol		ND		140	480
Phenanthrene		210	J	140	480
Benzophenone		ND		140	480
Phenol		2200		140	480
Pyrene		230	J	140	480
N-Nitrosodimethylamine		ND		140	480
Carbazole		ND		140	480
1-Methylnaphthalene		ND		140	480
4-Methylphenol		6100		140	470

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	0	X	30 - 130
2-Fluorophenol	0	X	30 - 130
Nitrobenzene-d5	0	X	30 - 130
Phenol-d5	0	X	30 - 130
2-Fluorobiphenyl	0	X	30 - 130
p-Terphenyl-d14	66		30 - 130

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-502-XXX**

Lab Sample ID: 480-30406-4

Client Matrix: Solid

% Moisture: 30.6

Date Sampled: 12/17/2012 1245

Date Received: 12/17/2012 1850

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

Analysis Method:	8270D	Analysis Batch:	480-97046	Instrument ID:	HP5973X
Prep Method:	3546	Prep Batch:	480-96561	Lab File ID:	X3230.D
Dilution:	10			Initial Weight/Volume:	000030.3 g
Analysis Date:	12/21/2012 1337			Final Weight/Volume:	1 mL
Prep Date:	12/19/2012 0946			Injection Volume:	1 uL

Tentatively Identified Compounds **Number TIC's Found:** **10**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	4.09	8900	T J
106-42-3	p-Xylene	4.57	2200	T J N
1000157-89-9	(+)-.alpha.-Terpineol (p-menth-1-en-8-ol	8.53	820	T J N
	Unknown	9.80	1600	T J
	Unknown	10.17	820	T J
292-46-6	Lenthionine	12.39	1400	T J N
	Unknown	12.93	1600	T J
638-53-9	Tridecanoic acid	13.78	2000	T J N
69009-90-1	1,1'-Biphenyl, bis(1-methylethyl)-	14.46	800	T J N
18956-15-5	2-Propen-1-one, 1-(2,6-dihydroxy-4-metho	15.48	960	T J N

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-503-XXX**

Lab Sample ID: 480-30406-1

Client Matrix: Solid

% Moisture: 36.1

Date Sampled: 12/17/2012 1430

Date Received: 12/17/2012 1850

7199 Chromium, Hexavalent (IC)

Analysis Method:	7199	Analysis Batch:	440-76481	Instrument ID:	IC-16
Prep Method:	3060A	Prep Batch:	440-75585	Lab File ID:	Info
Dilution:	10			Initial Weight/Volume:	1.26 g
Analysis Date:	01/01/2013 2025			Final Weight/Volume:	50 mL
Prep Date:	12/27/2012 0926			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cr (VI)		ND		0.23	0.31

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-504-XXX**

Lab Sample ID: 480-30406-2

Client Matrix: Solid

% Moisture: 43.7

Date Sampled: 12/17/2012 1500

Date Received: 12/17/2012 1850

7199 Chromium, Hexavalent (IC)

Analysis Method:	7199	Analysis Batch:	440-76481	Instrument ID:	IC-16
Prep Method:	3060A	Prep Batch:	440-75585	Lab File ID:	Info
Dilution:	10			Initial Weight/Volume:	1.25 g
Analysis Date:	01/01/2013 2038			Final Weight/Volume:	50 mL
Prep Date:	12/27/2012 0936			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cr (VI)		ND		0.27	0.36

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-501-XXX**

Lab Sample ID: 480-30406-3

Client Matrix: Solid

% Moisture: 28.5

Date Sampled: 12/17/2012 1215

Date Received: 12/17/2012 1850

7199 Chromium, Hexavalent (IC)

Analysis Method:	7199	Analysis Batch:	440-76481	Instrument ID:	IC-16
Prep Method:	3060A	Prep Batch:	440-75585	Lab File ID:	Info
Dilution:	10			Initial Weight/Volume:	1.26 g
Analysis Date:	01/01/2013 2051			Final Weight/Volume:	50 mL
Prep Date:	12/27/2012 0936			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cr (VI)		0.21	J	0.21	0.28

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-502-XXX**

Lab Sample ID: 480-30406-4

Client Matrix: Solid

% Moisture: 30.6

Date Sampled: 12/17/2012 1245

Date Received: 12/17/2012 1850

7199 Chromium, Hexavalent (IC)

Analysis Method:	7199	Analysis Batch:	440-76481	Instrument ID:	IC-16
Prep Method:	3060A	Prep Batch:	440-75585	Lab File ID:	Info
Dilution:	10			Initial Weight/Volume:	1.24 g
Analysis Date:	01/01/2013 2103			Final Weight/Volume:	50 mL
Prep Date:	12/27/2012 0936			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cr (VI)		0.27	J	0.22	0.29

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-503-XXX**

Lab Sample ID: 480-30406-1

Client Matrix: Solid

% Moisture: 36.1

Date Sampled: 12/17/2012 1430

Date Received: 12/17/2012 1850

GCMSMS_NDMA Nitrosamines by Isotope Dilution and GC/CI/MS/MS

Analysis Method:	GCMSMS_NDMA	Analysis Batch:	320-8232	Instrument ID:	IT1
Prep Method:	3550B	Prep Batch:	320-7689	Lab File ID:	480-30406-B-1-A,
Dilution:	1.0			Initial Weight/Volume:	10.31 g
Analysis Date:	01/03/2013 1624			Final Weight/Volume:	.5 mL
Prep Date:	12/20/2012 1347			Injection Volume:	20 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
N-Nitrosodimethylamine		ND		1.2	7.6
N-Nitrosodimethylamine-d6		15			

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-504-XXX**

Lab Sample ID: 480-30406-2

Client Matrix: Solid

% Moisture: 43.7

Date Sampled: 12/17/2012 1500

Date Received: 12/17/2012 1850

GCMSMS_NDMA Nitrosamines by Isotope Dilution and GC/CI/MS/MS

Analysis Method:	GCMSMS_NDMA	Analysis Batch:	320-8232	Instrument ID:	IT1
Prep Method:	3550B	Prep Batch:	320-7689	Lab File ID:	480-30406-B-2-A,
Dilution:	1.0			Initial Weight/Volume:	9.73 g
Analysis Date:	01/03/2013 1933			Final Weight/Volume:	.5 mL
Prep Date:	12/20/2012 1347			Injection Volume:	20 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
N-Nitrosodimethylamine		ND		1.4	9.1
N-Nitrosodimethylamine-d6		17			

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-501-XXX**

Lab Sample ID: 480-30406-3

Client Matrix: Solid

% Moisture: 28.5

Date Sampled: 12/17/2012 1215

Date Received: 12/17/2012 1850

GCMSMS_NDMA Nitrosamines by Isotope Dilution and GC/CI/MS/MS

Analysis Method:	GCMSMS_NDMA	Analysis Batch:	320-8232	Instrument ID:	IT1
Prep Method:	3550B	Prep Batch:	320-7689	Lab File ID:	480-30406-B-3-A,
Dilution:	1.0			Initial Weight/Volume:	10.18 g
Analysis Date:	01/03/2013 2036			Final Weight/Volume:	.5 mL
Prep Date:	12/20/2012 1347			Injection Volume:	20 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
N-Nitrosodimethylamine		ND		1.0	6.9
N-Nitrosodimethylamine-d6		12			

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-502-XXX**

Lab Sample ID: 480-30406-4

Client Matrix: Solid

% Moisture: 30.6

Date Sampled: 12/17/2012 1245

Date Received: 12/17/2012 1850

GCMSMS_NDMA Nitrosamines by Isotope Dilution and GC/CI/MS/MS

Analysis Method:	GCMSMS_NDMA	Analysis Batch:	320-8340	Instrument ID:	IT1
Prep Method:	3550B	Prep Batch:	320-7689	Lab File ID:	480-30406-B-4-A,
Dilution:	1.0			Initial Weight/Volume:	10.33 g
Analysis Date:	01/07/2013 2311			Final Weight/Volume:	.5 mL
Prep Date:	12/20/2012 1347			Injection Volume:	20 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
N-Nitrosodimethylamine		ND		1.1	7.0
N-Nitrosodimethylamine-d6		18			

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-503-XXX**

Lab Sample ID: 480-30406-1

Client Matrix: Solid

% Moisture: 36.1

Date Sampled: 12/17/2012 1430

Date Received: 12/17/2012 1850

6010 Metals (ICP)

Analysis Method:	6010	Analysis Batch:	480-96762	Instrument ID:	ICAP1
Prep Method:	3050B	Prep Batch:	480-96586	Lab File ID:	I1121912A-10.asc
Dilution:	1.0			Initial Weight/Volume:	+0.5654 g
Analysis Date:	12/19/2012 2136			Final Weight/Volume:	50 mL
Prep Date:	12/19/2012 1200				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		ND	^	0.28	0.69
Arsenic		12		0.55	1.4
Barium		48		0.15	0.69
Beryllium		0.12	J	0.039	0.28
Cadmium		0.55		0.042	0.28
Chromium		50		0.28	0.69
Nickel		11		0.32	1.4
Thallium		ND		0.42	1.4
Vanadium		22		0.15	0.69
Lead		26		0.33	0.69
Selenium		ND		0.55	0.69
Antimony		ND		0.55	0.69
Sodium		110	J	18	190
Potassium		1100		28	42
Calcium		4700	B	4.6	69
Iron		12000	B	1.5	14
Magnesium		2300		1.3	28
Copper		19		0.29	1.4
Aluminum		9100		6.1	14
Manganese		400	B	0.044	0.28
Cobalt		4.8		0.069	0.69

Analysis Method:	6010	Analysis Batch:	480-96876	Instrument ID:	ICAP2
Prep Method:	3050B	Prep Batch:	480-96586	Lab File ID:	I2122012A-3.asc
Dilution:	1.0			Initial Weight/Volume:	+0.5654 g
Analysis Date:	12/20/2012 1230			Final Weight/Volume:	50 mL
Prep Date:	12/19/2012 1200				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Zinc		55	B	0.21	3.5

Analysis Method:	6010	Analysis Batch:	480-104944	Instrument ID:	ICAP1
Prep Method:	3050B	Prep Batch:	480-104616	Lab File ID:	I1022613A-1.asc
Dilution:	1.0			Initial Weight/Volume:	+0.5070 g
Analysis Date:	02/26/2013 1149			Final Weight/Volume:	50 mL
Prep Date:	02/25/2013 0910				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Tin		2.2	J ^	0.66	3.1

7471A Mercury (CVAA)

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-503-XXX**

Lab Sample ID: 480-30406-1

Client Matrix: Solid

% Moisture: 36.1

Date Sampled: 12/17/2012 1430

Date Received: 12/17/2012 1850

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-96597	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-96554	Lab File ID:	J12192S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.5991 g
Analysis Date:	12/19/2012 1246			Final Weight/Volume:	50 mL
Prep Date:	12/19/2012 0940				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.075	J	0.013	0.16

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-504-XXX**

Lab Sample ID: 480-30406-2

Client Matrix: Solid

% Moisture: 43.7

Date Sampled: 12/17/2012 1500

Date Received: 12/17/2012 1850

6010 Metals (ICP)

Analysis Method:	6010	Analysis Batch:	480-96762	Instrument ID:	ICAP1
Prep Method:	3050B	Prep Batch:	480-96586	Lab File ID:	I1121912A-10.asc
Dilution:	1.0			Initial Weight/Volume:	+0.5611 g
Analysis Date:	12/19/2012 2138			Final Weight/Volume:	50 mL
Prep Date:	12/19/2012 1200				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		ND	^	0.32	0.79
Arsenic		9.4		0.63	1.6
Barium		51		0.17	0.79
Beryllium		0.089	J	0.044	0.32
Cadmium		0.56		0.048	0.32
Chromium		33		0.32	0.79
Nickel		9.9		0.36	1.6
Thallium		ND		0.48	1.6
Vanadium		19		0.17	0.79
Lead		23		0.38	0.79
Selenium		ND		0.63	0.79
Antimony		ND		0.63	0.79
Sodium		150	J	21	220
Potassium		740		32	48
Calcium		4800	B	5.2	79
Iron		11000	B	1.7	16
Magnesium		2000		1.5	32
Copper		25		0.33	1.6
Aluminum		7800		7.0	16
Manganese		440	B	0.051	0.32
Cobalt		4.5		0.079	0.79

Analysis Method:	6010	Analysis Batch:	480-96876	Instrument ID:	ICAP2
Prep Method:	3050B	Prep Batch:	480-96586	Lab File ID:	I2122012A-3.asc
Dilution:	1.0			Initial Weight/Volume:	+0.5611 g
Analysis Date:	12/20/2012 1233			Final Weight/Volume:	50 mL
Prep Date:	12/19/2012 1200				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Zinc		73	B	0.24	4.0

Analysis Method:	6010	Analysis Batch:	480-104944	Instrument ID:	ICAP1
Prep Method:	3050B	Prep Batch:	480-104616	Lab File ID:	I1022613A-1.asc
Dilution:	1.0			Initial Weight/Volume:	+0.5212 g
Analysis Date:	02/26/2013 1151			Final Weight/Volume:	50 mL
Prep Date:	02/25/2013 0910				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Tin		2.3	J ^	0.73	3.4

7471A Mercury (CVAA)

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-504-XXX**

Lab Sample ID: 480-30406-2

Client Matrix: Solid

% Moisture: 43.7

Date Sampled: 12/17/2012 1500

Date Received: 12/17/2012 1850

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-96597	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-96554	Lab File ID:	J12192S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6230 g
Analysis Date:	12/19/2012 1253			Final Weight/Volume:	50 mL
Prep Date:	12/19/2012 0940				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.062	J	0.014	0.17

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-501-XXX**

Lab Sample ID: 480-30406-3

Client Matrix: Solid

% Moisture: 28.5

Date Sampled: 12/17/2012 1215

Date Received: 12/17/2012 1850

6010 Metals (ICP)

Analysis Method:	6010	Analysis Batch:	480-96762	Instrument ID:	ICAP1
Prep Method:	3050B	Prep Batch:	480-96586	Lab File ID:	I1121912A-10.asc
Dilution:	1.0			Initial Weight/Volume:	+0.5123 g
Analysis Date:	12/19/2012 2140			Final Weight/Volume:	50 mL
Prep Date:	12/19/2012 1200				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		ND	^	0.27	0.68
Arsenic		6.2		0.55	1.4
Barium		45		0.15	0.68
Beryllium		0.094	J	0.038	0.27
Cadmium		0.21	J	0.041	0.27
Chromium		19		0.27	0.68
Nickel		8.7		0.31	1.4
Thallium		ND		0.41	1.4
Vanadium		17		0.15	0.68
Lead		51		0.33	0.68
Selenium		0.70		0.55	0.68
Antimony		ND		0.55	0.68
Sodium		140	J	18	190
Potassium		790		27	41
Calcium		3900	B	4.5	68
Iron		9500	B	1.5	14
Magnesium		2000		1.3	27
Copper		21		0.29	1.4
Aluminum		6500		6.0	14
Manganese		590	B	0.044	0.27
Cobalt		4.0		0.068	0.68

Analysis Method:	6010	Analysis Batch:	480-96876	Instrument ID:	ICAP2
Prep Method:	3050B	Prep Batch:	480-96586	Lab File ID:	I2122012A-3.asc
Dilution:	1.0			Initial Weight/Volume:	+0.5123 g
Analysis Date:	12/20/2012 1235			Final Weight/Volume:	50 mL
Prep Date:	12/19/2012 1200				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Zinc		65	B	0.21	3.4

Analysis Method:	6010	Analysis Batch:	480-104944	Instrument ID:	ICAP1
Prep Method:	3050B	Prep Batch:	480-104616	Lab File ID:	I1022613A-1.asc
Dilution:	1.0			Initial Weight/Volume:	+0.5042 g
Analysis Date:	02/26/2013 1153			Final Weight/Volume:	50 mL
Prep Date:	02/25/2013 0910				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Tin		2.1	J ^	0.60	2.8

7471A Mercury (CVAA)

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-501-XXX**

Lab Sample ID: 480-30406-3

Client Matrix: Solid

% Moisture: 28.5

Date Sampled: 12/17/2012 1215

Date Received: 12/17/2012 1850

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-96597	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-96554	Lab File ID:	J12192S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6252 g
Analysis Date:	12/19/2012 1255			Final Weight/Volume:	50 mL
Prep Date:	12/19/2012 0940				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.070	J	0.011	0.13

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-502-XXX**

Lab Sample ID: 480-30406-4

Client Matrix: Solid

% Moisture: 30.6

Date Sampled: 12/17/2012 1245

Date Received: 12/17/2012 1850

6010 Metals (ICP)

Analysis Method:	6010	Analysis Batch:	480-96762	Instrument ID:	ICAP1
Prep Method:	3050B	Prep Batch:	480-96586	Lab File ID:	I1121912A-10.asc
Dilution:	1.0			Initial Weight/Volume:	+0.4979 g
Analysis Date:	12/19/2012 2143			Final Weight/Volume:	50 mL
Prep Date:	12/19/2012 1200				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		ND	^	0.29	0.72
Arsenic		8.1		0.58	1.4
Barium		46		0.16	0.72
Beryllium		0.090	J	0.041	0.29
Cadmium		0.26	J	0.043	0.29
Chromium		27		0.29	0.72
Nickel		8.7		0.33	1.4
Thallium		ND		0.43	1.4
Vanadium		16		0.16	0.72
Lead		50		0.35	0.72
Selenium		ND		0.58	0.72
Antimony		ND		0.58	0.72
Sodium		150	J	19	200
Potassium		730		29	43
Calcium		3800	B	4.8	72
Iron		9200	B	1.6	14
Magnesium		1800		1.3	29
Copper		21		0.30	1.4
Aluminum		6500		6.4	14
Manganese		440	B	0.046	0.29
Cobalt		3.9		0.072	0.72

Analysis Method:	6010	Analysis Batch:	480-96876	Instrument ID:	ICAP2
Prep Method:	3050B	Prep Batch:	480-96586	Lab File ID:	I2122012A-3.asc
Dilution:	1.0			Initial Weight/Volume:	+0.4979 g
Analysis Date:	12/20/2012 1237			Final Weight/Volume:	50 mL
Prep Date:	12/19/2012 1200				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Zinc		65	B	0.22	3.6

Analysis Method:	6010	Analysis Batch:	480-104944	Instrument ID:	ICAP1
Prep Method:	3050B	Prep Batch:	480-104616	Lab File ID:	I1022613A-1.asc
Dilution:	1.0			Initial Weight/Volume:	+0.5118 g
Analysis Date:	02/26/2013 1156			Final Weight/Volume:	50 mL
Prep Date:	02/25/2013 0910				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Tin		2.2	J ^	0.61	2.8

7471A Mercury (CVAA)

Client: Olin Corporation

Job Number: 480-30406-1

Client Sample ID: **OC-SD-SD-502-XXX**

Lab Sample ID: 480-30406-4

Client Matrix: Solid

% Moisture: 30.6

Date Sampled: 12/17/2012 1245

Date Received: 12/17/2012 1850

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-96597	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-96554	Lab File ID:	J12192S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.5835 g
Analysis Date:	12/19/2012 1257			Final Weight/Volume:	50 mL
Prep Date:	12/19/2012 0940				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.057	J	0.012	0.15

General Chemistry

Client Sample ID: **OC-SD-SD-503-XXX**

Lab Sample ID: 480-30406-1 Date Sampled: 12/17/2012 1430
Client Matrix: Solid % Moisture: 36.1 Date Received: 12/17/2012 1850

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Soluble	6.3	J	mg/Kg	3.9	6.9	1.0	300.0
Analysis Batch: 480-97680	Analysis Date: 12/28/2012 1236						DryWt Corrected: Y
Sulfate-Soluble	900		mg/Kg	4.8	27	1.0	300.0
Analysis Batch: 480-97680	Analysis Date: 12/28/2012 1236						DryWt Corrected: Y
Ammonia-ASTM Leach	14		mg/Kg	2.0	3.9	1.0	350.1
Analysis Batch: 480-97353	Analysis Date: 12/26/2012 0813						DryWt Corrected: N
Prep Batch: 480-97203	Prep Date: 12/22/2012 1822						
TOC Result 1-ASTM Leach	110		mg/Kg	7.1	20	1.0	9060
Analysis Batch: 480-97733	Analysis Date: 12/28/2012 1029						DryWt Corrected: N
TOC Result 2-ASTM Leach	110		mg/Kg	7.1	20	1.0	9060
Analysis Batch: 480-97733	Analysis Date: 12/28/2012 1029						DryWt Corrected: N
Total Organic Carbon - Duplicates-ASTM Leach	110		mg/Kg	7.1	20	1.0	9060
Analysis Batch: 480-97733	Analysis Date: 12/28/2012 1029						DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	6.98		SU	1.00	1.00	1.0	9045C
Analysis Batch: 360-97429	Analysis Date: 12/18/2012 1045						DryWt Corrected: N
Percent Moisture	36		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-96652	Analysis Date: 12/19/2012 1602						DryWt Corrected: N
Percent Solids	64		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-96652	Analysis Date: 12/19/2012 1602						DryWt Corrected: N
Oxidation Reduction Potential-Soluble	(-) 32		millivolts	0.010	0.010	1.0	SM 2580B
Analysis Batch: 360-97430	Analysis Date: 12/18/2012 1045						DryWt Corrected: N

General Chemistry

Client Sample ID: **OC-SD-SD-504-XXX**

Lab Sample ID: 480-30406-2 Date Sampled: 12/17/2012 1500
Client Matrix: Solid % Moisture: 43.7 Date Received: 12/17/2012 1850

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Soluble	13		mg/Kg	4.6	8.2	1.0	300.0
Analysis Batch: 480-97680	Analysis Date: 12/28/2012 1246						DryWt Corrected: Y
Sulfate-Soluble	1900		mg/Kg	11	65	2.0	300.0
Analysis Batch: 480-97680	Analysis Date: 12/28/2012 1459						DryWt Corrected: Y
Ammonia-ASTM Leach	22		mg/Kg	2.0	3.9	1.0	350.1
Analysis Batch: 480-97353	Analysis Date: 12/26/2012 0814						DryWt Corrected: N
Prep Batch: 480-97203	Prep Date: 12/22/2012 1822						
TOC Result 1-ASTM Leach	58		mg/Kg	7.0	20	1.0	9060
Analysis Batch: 480-97733	Analysis Date: 12/28/2012 1059						DryWt Corrected: N
TOC Result 2-ASTM Leach	63		mg/Kg	7.0	20	1.0	9060
Analysis Batch: 480-97733	Analysis Date: 12/28/2012 1059						DryWt Corrected: N
Total Organic Carbon - Duplicates-ASTM Leach	60		mg/Kg	7.0	20	1.0	9060
Analysis Batch: 480-97733	Analysis Date: 12/28/2012 1059						DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	6.99		SU	1.00	1.00	1.0	9045C
Analysis Batch: 360-97429	Analysis Date: 12/18/2012 1049						DryWt Corrected: N
Percent Moisture	44		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-96652	Analysis Date: 12/19/2012 1602						DryWt Corrected: N
Percent Solids	56		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-96652	Analysis Date: 12/19/2012 1602						DryWt Corrected: N
Oxidation Reduction Potential-Soluble	(-) 31		millivolts	0.010	0.010	1.0	SM 2580B
Analysis Batch: 360-97430	Analysis Date: 12/18/2012 1049						DryWt Corrected: N

General Chemistry

Client Sample ID: **OC-SD-SD-501-XXX**

Lab Sample ID: 480-30406-3 Date Sampled: 12/17/2012 1215
Client Matrix: Solid % Moisture: 28.5 Date Received: 12/17/2012 1850

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Soluble	24		mg/Kg	3.5	6.1	1.0	300.0
Analysis Batch: 480-97680	Analysis Date: 12/28/2012 1256						DryWt Corrected: Y
Sulfate-Soluble	510		mg/Kg	4.3	25	1.0	300.0
Analysis Batch: 480-97680	Analysis Date: 12/28/2012 1256						DryWt Corrected: Y
Ammonia-ASTM Leach	17		mg/Kg	1.9	3.8	1.0	350.1
Analysis Batch: 480-97353	Analysis Date: 12/26/2012 0814						DryWt Corrected: N
Prep Batch: 480-97203	Prep Date: 12/22/2012 1822						
TOC Result 1-ASTM Leach	87		mg/Kg	6.9	19	1.0	9060
Analysis Batch: 480-97733	Analysis Date: 12/28/2012 1129						DryWt Corrected: N
TOC Result 2-ASTM Leach	92		mg/Kg	6.9	19	1.0	9060
Analysis Batch: 480-97733	Analysis Date: 12/28/2012 1129						DryWt Corrected: N
Total Organic Carbon - Duplicates-ASTM Leach	90		mg/Kg	6.9	19	1.0	9060
Analysis Batch: 480-97733	Analysis Date: 12/28/2012 1129						DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	7.32		SU	1.00	1.00	1.0	9045C
Analysis Batch: 360-97429	Analysis Date: 12/18/2012 1053						DryWt Corrected: N
Percent Moisture	28		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-96652	Analysis Date: 12/19/2012 1602						DryWt Corrected: N
Percent Solids	72		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-96652	Analysis Date: 12/19/2012 1602						DryWt Corrected: N
Oxidation Reduction Potential-Soluble	(-) 31		millivolts	0.010	0.010	1.0	SM 2580B
Analysis Batch: 360-97430	Analysis Date: 12/18/2012 1053						DryWt Corrected: N

General Chemistry

Client Sample ID: **OC-SD-SD-502-XXX**

Lab Sample ID: 480-30406-4 Date Sampled: 12/17/2012 1245
Client Matrix: Solid % Moisture: 30.6 Date Received: 12/17/2012 1850

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride-Soluble	18		mg/Kg	4.0	7.1	1.0	300.0
Analysis Batch: 480-97680	Analysis Date: 12/28/2012 1306						DryWt Corrected: Y
Sulfate-Soluble	1200		mg/Kg	5.0	28	1.0	300.0
Analysis Batch: 480-97680	Analysis Date: 12/28/2012 1306						DryWt Corrected: Y
Ammonia-ASTM Leach	35		mg/Kg	2.0	4.0	1.0	350.1
Analysis Batch: 480-97353	Analysis Date: 12/26/2012 0815						DryWt Corrected: N
Prep Batch: 480-97203	Prep Date: 12/22/2012 1822						
TOC Result 1-ASTM Leach	79		mg/Kg	7.1	20	1.0	9060
Analysis Batch: 480-97733	Analysis Date: 12/28/2012 1158						DryWt Corrected: N
TOC Result 2-ASTM Leach	81		mg/Kg	7.1	20	1.0	9060
Analysis Batch: 480-97733	Analysis Date: 12/28/2012 1158						DryWt Corrected: N
Total Organic Carbon - Duplicates-ASTM Leach	80		mg/Kg	7.1	20	1.0	9060
Analysis Batch: 480-97733	Analysis Date: 12/28/2012 1158						DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	7.23		SU	1.00	1.00	1.0	9045C
Analysis Batch: 360-97429	Analysis Date: 12/18/2012 1057						DryWt Corrected: N
Percent Moisture	31		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-96652	Analysis Date: 12/19/2012 1602						DryWt Corrected: N
Percent Solids	69		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-96652	Analysis Date: 12/19/2012 1602						DryWt Corrected: N
Oxidation Reduction Potential-Soluble	(-) 32		millivolts	0.010	0.010	1.0	SM 2580B
Analysis Batch: 360-97430	Analysis Date: 12/18/2012 1057						DryWt Corrected: N

Client: Olin Corporation

Job Number: 480-30406-1

Surrogate Recovery Report

8260C Volatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec
480-30406-1	OC-SD-SD-503-XXX	92	91	88
480-30406-2	OC-SD-SD-504-XXX	94	92	89
480-30406-3	OC-SD-SD-501-XXX	94	90	88
480-30406-4	OC-SD-SD-502-XXX	94	92	90
MB 480-96559/7		81	96	83
LCS 480-96559/5		84	86	83
LCSD 480-96559/6		87	87	83

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Client: Olin Corporation

Job Number: 480-30406-1

Surrogate Recovery Report

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

Client Matrix: Solid

Lab Sample ID	Client Sample ID	2FP %Rec	PHL %Rec	NBZ %Rec	FBP %Rec	TBP %Rec	TPH %Rec
480-30406-1	OC-SD-SD-503-XXX	0X	0X	0X	0X	0X	0X
480-30406-2	OC-SD-SD-504-XXX	0X	0X	0X	0X	0X	59
480-30406-3	OC-SD-SD-501-XXX	0X	0X	0X	0X	0X	50
480-30406-4	OC-SD-SD-502-XXX	0X	0X	0X	0X	0X	66
MB 480-96561/1-A		81	77	103	96	90	92
LCS 480-96561/2-A		77	86	86	97	84	91
LCSD 480-96561/3-A		81	97	87	96	90	88

Surrogate	Acceptance Limits
2FP = 2-Fluorophenol	30-130
PHL = Phenol-d5	30-130
NBZ = Nitrobenzene-d5	30-130
FBP = 2-Fluorobiphenyl	30-130
TBP = 2,4,6-Tribromophenol	30-130
TPH = p-Terphenyl-d14	30-130

Client: Olin Corporation

Job Number: 480-30406-1

Surrogate Recovery Report

GCMSMS_NDMA_Nitrosamines by Isotope Dilution and GC/CI/MS/MS

Client Matrix: Solid

Lab Sample ID	Client Sample ID	DMA %Rec
480-30406-1	OC-SD-SD-503-XXX	101
480-30406-2	OC-SD-SD-504-XXX	94
480-30406-3	OC-SD-SD-501-XXX	88
480-30406-4	OC-SD-SD-502-XXX	129
MB 320-7689/1-A		116
LCS 320-7689/2-A		111
480-30406-1 MS	OC-SD-SD-503-XXX MS	82
480-30406-1 MSD	OC-SD-SD-503-XXX MSD	89

Surrogate	Acceptance Limits
DMA = N-Nitrosodimethylamine-d6	50-150

Client: Olin Corporation

Job Number: 480-30406-1

Method Blank - Batch: 480-96559

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 480-96559/7	Analysis Batch:	480-96559	Instrument ID:	HP5973F
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	F4457.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/19/2012 1547	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.50	2.5
1,1,1-Trichloroethane	ND		0.36	2.5
1,1,2,2-Tetrachloroethane	ND		0.81	2.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.1	2.5
1,1,2-Trichloroethane	ND		0.65	2.5
1,1-Dichloroethane	ND		0.61	2.5
1,1-Dichloroethene	ND		0.61	2.5
1,1-Dichloropropene	ND		0.71	2.5
1,2,3-Trichlorobenzene	ND		0.53	2.5
1,2,3-Trichloropropane	ND		0.51	2.5
1,2,4-Trichlorobenzene	ND		0.30	2.5
1,2,4-Trimethylbenzene	ND		0.96	2.5
1,2-Dibromo-3-Chloropropane	ND		2.5	25
1,2-Dichlorobenzene	ND		0.39	2.5
1,2-Dichloroethane	ND		0.25	2.5
1,2-Dichloropropane	ND		2.5	2.5
1,3,5-Trimethylbenzene	ND		0.32	2.5
1,3-Dichlorobenzene	ND		0.26	2.5
1,3-Dichloropropane	ND		0.30	2.5
1,4-Dichlorobenzene	ND		0.70	2.5
1,4-Dioxane	ND		24	250
2,2-Dichloropropane	ND		0.85	2.5
2,4,4-Trimethyl-1-pentene	ND		0.43	5.0
2,4,4-Trimethyl-2-pentene	ND		0.53	5.0
2-Butanone (MEK)	ND		1.8	25
2-Chlorotoluene	ND		0.33	2.5
2-Hexanone	ND		2.5	25
4-Chlorotoluene	ND		0.59	2.5
4-Isopropyltoluene	ND		0.40	2.5
4-Methyl-2-pentanone (MIBK)	ND		1.6	25
Acetone	ND		4.2	250
Benzene	ND		0.25	2.5
Bromobenzene	ND		0.88	2.5
Bromoform	ND		2.5	2.5
Bromomethane	ND		0.45	5.0
Carbon disulfide	ND		2.5	2.5
Carbon tetrachloride	ND		0.48	2.5
Chlorobenzene	ND		0.66	2.5
Chlorobromomethane	ND		0.36	2.5
Chlorodibromomethane	ND		0.64	2.5
Chloroethane	ND		1.1	5.0
Chloroform	ND		0.31	2.5
Chloromethane	ND		0.30	5.0
cis-1,2-Dichloroethene	ND		0.64	2.5
cis-1,3-Dichloropropene	ND		0.72	2.5

Client: Olin Corporation

Job Number: 480-30406-1

Method Blank - Batch: 480-96559

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 480-96559/7	Analysis Batch:	480-96559	Instrument ID:	HP5973F
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	F4457.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/19/2012 1547	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Cyclohexane	ND		0.70	25
Dibromomethane	ND		0.52	2.5
Dichlorobromomethane	ND		0.67	2.5
Dichlorodifluoromethane	ND		0.41	5.0
Ethyl ether	ND		2.1	2.5
Ethylbenzene	ND		0.35	2.5
Ethylene Dibromide	ND		0.64	2.5
Hexachlorobutadiene	ND		0.59	2.5
Isopropyl ether	ND		2.5	2.5
Isopropylbenzene	ND		0.75	2.5
Methyl acetate	ND		0.93	50
Methyl tert-butyl ether	ND		0.49	2.5
Methylcyclohexane	ND		0.76	2.5
Methylene Chloride	ND		2.3	2.5
m-Xylene & p-Xylene	ND		0.84	5.0
Naphthalene	ND		0.67	25
n-Butylbenzene	ND		0.44	2.5
N-Propylbenzene	ND		0.40	2.5
o-Xylene	ND		0.65	2.5
sec-Butylbenzene	ND		0.44	2.5
Styrene	ND		0.25	2.5
Tert-amyl methyl ether	ND		1.3	2.5
Tert-butyl ethyl ether	ND		2.2	2.5
tert-Butylbenzene	ND		0.52	2.5
Tetrachloroethene	ND		0.67	2.5
Tetrahydrofuran	ND		4.6	50
Toluene	ND		0.38	2.5
trans-1,2-Dichloroethene	ND		0.52	2.5
trans-1,3-Dichloropropene	ND		2.2	2.5
Trichloroethene	ND		1.1	2.5
Trichlorofluoromethane	ND		0.47	5.0
Vinyl chloride	ND		0.61	2.5

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	96	70 - 130
1,2-Dichloroethane-d4 (Surr)	81	70 - 130
4-Bromofluorobenzene (Surr)	83	70 - 130

Method Blank TICs- Batch: 480-96559

Cas Number	Analyte	RT	Est. Result	Qual
	Tentatively Identified Compound		None	

Client: Olin Corporation

Job Number: 480-30406-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 480-96559

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 480-96559/5	Analysis Batch:	480-96559	Instrument ID:	HP5973F
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	F4455.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/19/2012 1456	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 480-96559/6	Analysis Batch:	480-96559	Instrument ID:	HP5973F
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	F4456.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/19/2012 1521	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,1,2-Tetrachloroethane	95	92	70 - 130	3	20		
1,1,1-Trichloroethane	97	90	70 - 130	8	20		
1,1,2,2-Tetrachloroethane	102	100	70 - 130	2	20		
1,1,2-Trichloro-1,2,2-trifluoroethane	94	85	70 - 130	10	20		
1,1,2-Trichloroethane	96	94	70 - 130	3	20		
1,1-Dichloroethane	100	95	70 - 130	6	20		
1,1-Dichloroethene	98	90	70 - 130	8	20		
1,1-Dichloropropene	102	94	70 - 130	8	20		
1,2,3-Trichlorobenzene	104	105	70 - 130	0	20		
1,2,3-Trichloropropane	99	97	70 - 130	2	20		
1,2,4-Trichlorobenzene	104	103	70 - 130	0	20		
1,2,4-Trimethylbenzene	102	96	70 - 130	6	20		
1,2-Dibromo-3-Chloropropane	111	107	70 - 130	4	20		
1,2-Dichlorobenzene	95	92	70 - 130	3	20		
1,2-Dichloroethane	93	91	70 - 130	2	20		
1,2-Dichloropropane	97	93	70 - 130	4	20		
1,3,5-Trimethylbenzene	101	94	70 - 130	7	20		
1,3-Dichlorobenzene	96	92	70 - 130	5	20		
1,3-Dichloropropane	94	91	70 - 130	2	20		
1,4-Dichlorobenzene	93	89	70 - 130	4	20		
1,4-Dioxane	86	77	70 - 130	10	20		
2,2-Dichloropropane	101	95	70 - 130	7	20		
2,4,4-Trimethyl-1-pentene	104	97	70 - 130	7	20		
2,4,4-Trimethyl-2-pentene	109	96	70 - 130	13	20		
2-Butanone (MEK)	128	124	70 - 130	4	20		
2-Chlorotoluene	99	93	70 - 130	6	20		
2-Hexanone	92	89	70 - 130	3	20		
4-Chlorotoluene	101	93	70 - 130	7	20		
4-Isopropyltoluene	105	98	70 - 130	7	20		
4-Methyl-2-pentanone (MIBK)	89	86	70 - 130	4	20		
Acetone	87	82	70 - 130	6	20	J	J
Benzene	96	90	70 - 130	6	20		
Bromobenzene	95	91	70 - 130	4	20		
Bromoform	95	94	70 - 130	1	20		
Bromomethane	74	67	70 - 130	10	20		*
Carbon disulfide	91	81	70 - 130	11	20		

Client: Olin Corporation

Job Number: 480-30406-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 480-96559

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 480-96559/5	Analysis Batch:	480-96559	Instrument ID:	HP5973F
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	F4455.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/19/2012 1456	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 480-96559/6	Analysis Batch:	480-96559	Instrument ID:	HP5973F
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	F4456.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/19/2012 1521	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Carbon tetrachloride	98	91	70 - 130	8	20		
Chlorobenzene	93	88	70 - 130	5	20		
Chlorobromomethane	98	93	70 - 130	5	20		
Chlorodibromomethane	94	91	70 - 130	3	20		
Chloroethane	84	76	70 - 130	10	20		
Chloroform	97	92	70 - 130	5	20		
Chloromethane	87	81	70 - 130	7	20		
cis-1,2-Dichloroethene	98	92	70 - 130	6	20		
cis-1,3-Dichloropropene	100	97	70 - 130	3	20		
Cyclohexane	89	81	70 - 130	9	20		
Dibromomethane	98	99	70 - 130	0	20		
Dichlorobromomethane	96	93	70 - 130	3	20		
Dichlorodifluoromethane	90	82	70 - 130	9	20		
Ethyl ether	75	74	70 - 130	1	20		
Ethylbenzene	97	92	70 - 130	6	20		
Ethylene Dibromide	97	95	70 - 130	2	20		
Hexachlorobutadiene	108	100	70 - 130	7	20		
Isopropyl ether	84	82	70 - 130	2	20		
Isopropylbenzene	101	93	70 - 130	8	20		
Methyl acetate	92	87	70 - 130	6	20	J	J
Methyl tert-butyl ether	93	91	70 - 130	2	20		
Methylcyclohexane	90	83	70 - 130	9	20		
Methylene Chloride	92	88	70 - 130	4	20		
m-Xylene & p-Xylene	97	91	70 - 130	6	20		
Naphthalene	107	107	70 - 130	0	20		
n-Butylbenzene	106	99	70 - 130	7	20		
N-Propylbenzene	107	101	70 - 130	6	20		
o-Xylene	96	92	70 - 130	4	20		
sec-Butylbenzene	103	95	70 - 130	8	20		
Styrene	98	95	70 - 130	3	20		
Tert-amyl methyl ether	88	86	70 - 130	2	20		
Tert-butyl ethyl ether	83	80	70 - 130	4	20		
tert-Butylbenzene	100	93	70 - 130	8	20		
Tetrachloroethene	98	93	70 - 130	5	20		
Tetrahydrofuran	95	90	70 - 130	5	20		
Toluene	94	89	70 - 130	6	20		

Client: Olin Corporation

Job Number: 480-30406-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 480-96559

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 480-96559/5	Analysis Batch:	480-96559	Instrument ID:	HP5973F
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	F4455.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/19/2012 1456	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 480-96559/6	Analysis Batch:	480-96559	Instrument ID:	HP5973F
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	F4456.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/19/2012 1521	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
trans-1,2-Dichloroethene	99	91	70 - 130	8	20		
trans-1,3-Dichloropropene	98	96	70 - 130	2	20		
Trichloroethene	99	94	70 - 130	5	20		
Trichlorofluoromethane	89	80	70 - 130	10	20		
Vinyl chloride	92	84	70 - 130	9	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8 (Surr)	86	87	70 - 130
1,2-Dichloroethane-d4 (Surr)	84	87	70 - 130
4-Bromofluorobenzene (Surr)	83	83	70 - 130

Client: Olin Corporation

Job Number: 480-30406-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 480-96559

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 480-96559/5	Units:	ug/Kg	LCSD Lab Sample ID:	LCSD 480-96559/6
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/19/2012 1456			Analysis Date:	12/19/2012 1521
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
1,1,1,2-Tetrachloroethane	50.0	50.0	47.7		46.2	
1,1,1-Trichloroethane	50.0	50.0	48.5		44.9	
1,1,2,2-Tetrachloroethane	50.0	50.0	50.9		49.8	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	100	94.0		84.9	
1,1,2-Trichloroethane	50.0	50.0	48.1		46.8	
1,1-Dichloroethane	50.0	50.0	50.2		47.3	
1,1-Dichloroethene	50.0	50.0	49.0		45.2	
1,1-Dichloropropene	50.0	50.0	51.1		47.0	
1,2,3-Trichlorobenzene	50.0	50.0	52.2		52.3	
1,2,3-Trichloropropane	50.0	50.0	49.3		48.3	
1,2,4-Trichlorobenzene	50.0	50.0	51.9		51.7	
1,2,4-Trimethylbenzene	50.0	50.0	51.0		48.0	
1,2-Dibromo-3-Chloropropane	50.0	50.0	55.5		53.4	
1,2-Dichlorobenzene	50.0	50.0	47.5		46.2	
1,2-Dichloroethane	50.0	50.0	46.5		45.4	
1,2-Dichloropropane	50.0	50.0	48.5		46.5	
1,3,5-Trimethylbenzene	50.0	50.0	50.7		47.2	
1,3-Dichlorobenzene	50.0	50.0	48.1		45.9	
1,3-Dichloropropane	50.0	50.0	46.8		45.7	
1,4-Dichlorobenzene	50.0	50.0	46.6		44.7	
1,4-Dioxane	2000	2000	1720		1550	
2,2-Dichloropropane	50.0	50.0	50.7		47.5	
2,4,4-Trimethyl-1-pentene	50.0	50.0	52.0		48.4	
2,4,4-Trimethyl-2-pentene	50.0	50.0	54.6		47.9	
2-Butanone (MEK)	250	250	321		310	
2-Chlorotoluene	50.0	50.0	49.5		46.6	
2-Hexanone	250	250	230		224	
4-Chlorotoluene	50.0	50.0	50.3		46.7	
4-Isopropyltoluene	50.0	50.0	52.7		49.1	
4-Methyl-2-pentanone (MIBK)	250	250	223		215	
Acetone	250	250	218	J	206	J
Benzene	50.0	50.0	48.1		45.2	
Bromobenzene	50.0	50.0	47.5		45.6	
Bromoform	50.0	50.0	47.6		47.2	
Bromomethane	50.0	50.0	37.2		33.7	*
Carbon disulfide	50.0	50.0	45.3		40.5	
Carbon tetrachloride	50.0	50.0	49.2		45.5	
Chlorobenzene	50.0	50.0	46.4		44.1	
Chlorobromomethane	50.0	50.0	49.0		46.4	

Client: Olin Corporation

Job Number: 480-30406-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 480-96559

Method: 8260C
Preparation: N/A

LCS Lab Sample ID:	LCS 480-96559/5	Units:	ug/Kg	LCSD Lab Sample ID:	LCSD 480-96559/6
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/19/2012 1456			Analysis Date:	12/19/2012 1521
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
Chlorodibromomethane	50.0	50.0	46.8		45.6	
Chloroethane	50.0	50.0	41.9		37.9	
Chloroform	50.0	50.0	48.6		46.2	
Chloromethane	50.0	50.0	43.3		40.5	
cis-1,2-Dichloroethene	50.0	50.0	48.8		45.8	
cis-1,3-Dichloropropene	50.0	50.0	50.2		48.7	
Cyclohexane	50.0	50.0	44.4		40.4	
Dibromomethane	50.0	50.0	49.1		49.3	
Dichlorobromomethane	50.0	50.0	47.9		46.4	
Dichlorodifluoromethane	100	100	90.1		82.2	
Ethyl ether	50.0	50.0	37.3		37.1	
Ethylbenzene	50.0	50.0	48.6		45.8	
Ethylene Dibromide	50.0	50.0	48.3		47.3	
Hexachlorobutadiene	50.0	50.0	54.1		50.2	
Isopropyl ether	50.0	50.0	42.0		41.0	
Isopropylbenzene	50.0	50.0	50.5		46.5	
Methyl acetate	50.0	50.0	46.2	J	43.4	J
Methyl tert-butyl ether	50.0	50.0	46.6		45.7	
Methylcyclohexane	50.0	50.0	45.2		41.3	
Methylene Chloride	50.0	50.0	45.9		44.1	
m-Xylene & p-Xylene	100	100	96.7		91.0	
Naphthalene	50.0	50.0	53.5		53.4	
n-Butylbenzene	50.0	50.0	53.0		49.4	
N-Propylbenzene	50.0	50.0	53.5		50.3	
o-Xylene	50.0	50.0	47.8		45.9	
sec-Butylbenzene	50.0	50.0	51.4		47.5	
Styrene	50.0	50.0	49.2		47.6	
Tert-amyl methyl ether	50.0	50.0	44.1		43.2	
Tert-butyl ethyl ether	50.0	50.0	41.7		40.0	
tert-Butylbenzene	50.0	50.0	50.0		46.4	
Tetrachloroethene	50.0	50.0	49.1		46.5	
Tetrahydrofuran	250	250	237		226	
Toluene	50.0	50.0	47.0		44.3	
trans-1,2-Dichloroethene	50.0	50.0	49.6		45.7	
trans-1,3-Dichloropropene	50.0	50.0	48.8		48.0	
Trichloroethene	50.0	50.0	49.7		47.2	
Trichlorofluoromethane	50.0	50.0	44.4		40.1	
Vinyl chloride	50.0	50.0	46.0		41.8	

Client: Olin Corporation

Job Number: 480-30406-1

Method Blank - Batch: 480-96561

Method: 8270D
Preparation: 3546

Lab Sample ID:	MB 480-96561/1-A	Analysis Batch:	480-96803	Instrument ID:	HP5973X
Client Matrix:	Solid	Prep Batch:	480-96561	Lab File ID:	X3202.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	000030.4 g
Analysis Date:	12/20/2012 1517	Units:	ug/Kg	Final Weight/Volume:	1 mL
Prep Date:	12/19/2012 0930			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,2,4-Trichlorobenzene	ND		9.9	33
1,2-Dichlorobenzene	ND		9.9	33
1,3-Dichlorobenzene	ND		9.9	33
Benzaldehyde	ND		9.9	33
1,4-Dichlorobenzene	ND		9.9	33
2,2'-oxybis[1-chloropropane]	ND		9.9	33
2,4,5-Trichlorophenol	ND		11	33
2,4,6-Trichlorophenol	ND		14	33
Benzyl alcohol	ND		9.9	66
2,4-Dichlorophenol	ND		9.9	33
2,4-Dimethylphenol	ND		9.9	33
2,4-Dinitrophenol	ND		27	33
2,4-Dinitrotoluene	ND		9.9	33
4-Nitroaniline	ND		28	160
2,6-Dinitrotoluene	ND		28	33
2-Chloronaphthalene	ND		9.9	33
2-Chlorophenol	ND		9.9	33
N-Nitrosodiphenylamine	ND		9.9	33
2-Methylnaphthalene	ND		9.9	33
2-Methylphenol	ND		9.9	33
2-Nitrophenol	ND		13	33
3 & 4 Methylphenol	ND		9.9	33
3,3'-Dichlorobenzidine	ND		12	66
2-Nitroaniline	ND		41	160
Hexachlorocyclopentadiene	ND		9.9	66
4-Chloroaniline	ND		30	66
4-Nitrophenol	ND		14	160
Acenaphthene	ND		9.9	33
4,6-Dinitro-2-methylphenol	ND		32	160
1,2,4,5-Tetrachlorobenzene	ND		9.9	33
Acenaphthylene	ND		9.9	33
Acetophenone	ND		9.9	33
Aniline	ND		9.9	33
Anthracene	ND		9.9	33
Atrazine	ND		9.9	33
Azobenzene	ND		9.9	33
Benzo[a]anthracene	ND		9.9	33
Benzo[a]pyrene	ND		9.9	33
Benzo[b]fluoranthene	ND		9.9	33
Benzo[g,h,i]perylene	ND		9.9	33
Caprolactam	ND		9.9	33
3-Nitroaniline	ND		9.9	160
Benzo[k]fluoranthene	ND		17	33
Bis(2-chloroethoxy)methane	ND		9.9	33
1,1'-Biphenyl	ND		9.9	33

Client: Olin Corporation

Job Number: 480-30406-1

Method Blank - Batch: 480-96561

Method: 8270D
Preparation: 3546

Lab Sample ID:	MB 480-96561/1-A	Analysis Batch:	480-96803	Instrument ID:	HP5973X
Client Matrix:	Solid	Prep Batch:	480-96561	Lab File ID:	X3202.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	000030.4 g
Analysis Date:	12/20/2012 1517	Units:	ug/Kg	Final Weight/Volume:	1 mL
Prep Date:	12/19/2012 0930			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Bis(2-chloroethyl)ether	ND		9.9	33
Bis(2-ethylhexyl) phthalate	ND		66	160
Butyl benzyl phthalate	ND		9.9	33
Chrysene	ND		9.9	33
N-Nitrosodi-n-propylamine	ND		9.9	33
Benzoic acid	ND		15	160
Dibenz(a,h)anthracene	ND		9.9	33
Dibenzofuran	ND		9.9	33
Diethyl phthalate	ND		11	33
Dimethyl phthalate	ND		9.9	33
Di-n-butyl phthalate	ND		49	160
Di-n-octyl phthalate	ND		9.9	33
Phenyl ether	ND		9.9	33
2,3,4,6-Tetrachlorophenol	ND		9.9	33
Fluoranthene	ND		9.9	33
4-Chloro-3-methylphenol	ND		9.9	66
Fluorene	ND		9.9	33
4-Chlorophenyl phenyl ether	ND		9.9	33
Hexachlorobenzene	ND		9.9	33
Hexachlorobutadiene	ND		9.9	33
Hexachloroethane	ND		9.9	33
Indeno[1,2,3-cd]pyrene	ND		9.9	33
Isophorone	ND		9.9	33
Naphthalene	ND		9.9	33
Nitrobenzene	ND		9.9	33
Pentachlorophenol	ND		9.9	33
Phenanthrene	ND		9.9	33
Benzophenone	ND		9.9	33
Phenol	ND		9.9	33
Pyrene	ND		9.9	33
N-Nitrosodimethylamine	ND		9.9	33
Carbazole	ND		9.9	33
1-Methylnaphthalene	ND		9.9	33
4-Methylphenol	ND		9.9	33

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol	90	30 - 130
2-Fluorophenol	81	30 - 130
Nitrobenzene-d5	103	30 - 130
Phenol-d5	77	30 - 130
2-Fluorobiphenyl	96	30 - 130
p-Terphenyl-d14	92	30 - 130

Client: Olin Corporation

Job Number: 480-30406-1

Method Blank TICs- Batch: 480-96561

Cas Number	Analyte	RT	Est. Result	Qual
	Unknown	3.85	77.6	T J
	Unknown	4.22	5300	T J
	Unknown	6.97	47.0	T J
54833-48-6	Heptadecane, 2,6,10,15-tetramethyl-	9.18	48.7	T J N
	Unknown	10.98	52.3	T J
31295-56-4	Dodecane, 2,6,11-trimethyl-	12.46	39.9	T J N
	Unknown	14.54	65.7	T J
111-6-8	Hexadecanoic acid, butyl ester	14.61	68.2	T J N
123-95-5	Octadecanoic acid, butyl ester	15.26	82.7	T J N
7683-64-9	Squalene	16.46	297	T J N

Client: Olin Corporation

Job Number: 480-30406-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 480-96561

Method: 8270D
Preparation: 3546

LCS Lab Sample ID:	LCS 480-96561/2-A	Analysis Batch:	480-96803	Instrument ID:	HP5973X
Client Matrix:	Solid	Prep Batch:	480-96561	Lab File ID:	X3203.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	000030.2 g
Analysis Date:	12/20/2012 1542	Units:	ug/Kg	Final Weight/Volume:	1 mL
Prep Date:	12/19/2012 0930			Injection Volume:	1 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 480-96561/3-A	Analysis Batch:	480-96803	Instrument ID:	HP5973X
Client Matrix:	Solid	Prep Batch:	480-96561	Lab File ID:	X3204.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	000030.2 g
Analysis Date:	12/20/2012 1608	Units:	ug/Kg	Final Weight/Volume:	1 mL
Prep Date:	12/19/2012 0930			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,2,4-Trichlorobenzene	79	84	40 - 140	6	30		
1,2-Dichlorobenzene	77	80	40 - 140	4	30		
1,3-Dichlorobenzene	74	77	40 - 140	4	30		
Benzaldehyde	90	95		6			
1,4-Dichlorobenzene	78	78	40 - 140	0	30		
2,2'-oxybis[1-chloropropane]	73	79	40 - 140	7	30		
2,4,5-Trichlorophenol	93	96	30 - 130	3	30		
2,4,6-Trichlorophenol	96	103	30 - 130	7	30		
Benzyl alcohol	66	54		21			
2,4-Dichlorophenol	86	93	30 - 130	8	30		
2,4-Dimethylphenol	91	94	30 - 130	3	30		
2,4-Dinitrophenol	95	44	30 - 130	74	30		*
2,4-Dinitrotoluene	89	91	40 - 140	3	30		
4-Nitroaniline	65	69		7			
2,6-Dinitrotoluene	46	48	40 - 140	4	30		
2-Chloronaphthalene	83	86	40 - 140	3	30		
2-Chlorophenol	89	92	30 - 130	3	30		
N-Nitrosodiphenylamine	54	55		1			
2-Methylnaphthalene	77	82	40 - 140	7	30		
2-Methylphenol	98	90	30 - 130	9	30		
2-Nitrophenol	88	90	30 - 130	3	30		
3,3'-Dichlorobenzidine	85	91	40 - 140	7	30		
2-Nitroaniline	96	105		9			
4-Bromophenyl phenyl ether	100	105	40 - 140	4	30		
Hexachlorocyclopentadiene	72	76		5			
4-Chloroaniline	75	82	40 - 140	9	30		
4-Nitrophenol	90	14	30 - 130	147	30		J *
Acenaphthene	81	85	40 - 140	4	30		
4,6-Dinitro-2-methylphenol	71	83		15			
1,2,4,5-Tetrachlorobenzene	106	114		7			
Acenaphthylene	93	96	40 - 140	3	30		
Acetophenone	95	102	40 - 140	7	30		
Aniline	77	81	40 - 140	5	30		
Anthracene	96	98	40 - 140	2	30		
Atrazine	82	100	40 - 140	20	30		
Azobenzene	268	258	40 - 140	4	30	E *	* E

Client: Olin Corporation

Job Number: 480-30406-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 480-96561

Method: 8270D
Preparation: 3546

LCS Lab Sample ID:	LCS 480-96561/2-A	Analysis Batch:	480-96803	Instrument ID:	HP5973X
Client Matrix:	Solid	Prep Batch:	480-96561	Lab File ID:	X3203.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	000030.2 g
Analysis Date:	12/20/2012 1542	Units:	ug/Kg	Final Weight/Volume:	1 mL
Prep Date:	12/19/2012 0930			Injection Volume:	1 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 480-96561/3-A	Analysis Batch:	480-96803	Instrument ID:	HP5973X
Client Matrix:	Solid	Prep Batch:	480-96561	Lab File ID:	X3204.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	000030.2 g
Analysis Date:	12/20/2012 1608	Units:	ug/Kg	Final Weight/Volume:	1 mL
Prep Date:	12/19/2012 0930			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzo[a]anthracene	105	105	40 - 140	0	30		
Benzo[a]pyrene	89	93	40 - 140	5	30		
Benzo[b]fluoranthene	94	101	40 - 140	7	30		
Benzo[g,h,i]perylene	60	58	40 - 140	4	30		
Caprolactam	87	117		29			
3-Nitroaniline	67	90		29			
Benzo[k]fluoranthene	112	114	40 - 140	2	30		
Bis(2-chloroethoxy)methane	89	89	40 - 140	0	30		
1,1'-Biphenyl	103	110		6			
Bis(2-chloroethyl)ether	83	85	40 - 140	3	30		
Bis(2-ethylhexyl) phthalate	87	96	40 - 140	9	30		
Butyl benzyl phthalate	84	92	40 - 140	8	30		
Chrysene	89	98	40 - 140	10	30		
N-Nitrosodi-n-propylamine	90	90		1			
Benzoic acid	127	142		11			
Dibenz(a,h)anthracene	63	65	40 - 140	3	30		
Dibenzofuran	95	97	40 - 140	1	30		
Diethyl phthalate	90	95	40 - 140	5	30		
Dimethyl phthalate	90	96	40 - 140	7	30		
Di-n-butyl phthalate	103	105	40 - 140	1	30		
Di-n-octyl phthalate	108	113	40 - 140	4	30		
Phenyl ether	123	108		13			
2,3,4,6-Tetrachlorophenol	93	110		17			
Fluoranthene	79	77	40 - 140	2	30		
4-Chloro-3-methylphenol	91	104		13			
Fluorene	85	89	40 - 140	4	30		
4-Chlorophenyl phenyl ether	90	90		0			
Hexachlorobenzene	97	96	40 - 140	1	30		
Hexachlorobutadiene	77	82	40 - 140	7	30		
Hexachloroethane	79	81	40 - 140	3	30		
Indeno[1,2,3-cd]pyrene	60	61	40 - 140	2	30		
Isophorone	85	91	40 - 140	7	30		
Naphthalene	80	82	40 - 140	3	30		
Nitrobenzene	88	88	40 - 140	0	30		
Pentachlorophenol	88	98	30 - 130	11	30		
Phenanthrene	95	96	40 - 140	1	30		

Client: Olin Corporation

Job Number: 480-30406-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 480-96561

Method: 8270D
Preparation: 3546

LCS Lab Sample ID:	LCS 480-96561/2-A	Analysis Batch:	480-96803	Instrument ID:	HP5973X
Client Matrix:	Solid	Prep Batch:	480-96561	Lab File ID:	X3203.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	000030.2 g
Analysis Date:	12/20/2012 1542	Units:	ug/Kg	Final Weight/Volume:	1 mL
Prep Date:	12/19/2012 0930			Injection Volume:	1 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 480-96561/3-A	Analysis Batch:	480-96803	Instrument ID:	HP5973X
Client Matrix:	Solid	Prep Batch:	480-96561	Lab File ID:	X3204.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	000030.2 g
Analysis Date:	12/20/2012 1608	Units:	ug/Kg	Final Weight/Volume:	1 mL
Prep Date:	12/19/2012 0930			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzophenone	111	107		4			
Phenol	88	94	30 - 130	7	30		
Pyrene	83	90	40 - 140	9	30		
N-Nitrosodimethylamine	71	73		3			
Carbazole	83	85		3			
1-Methylnaphthalene	95	92		3			
4-Methylphenol	99	97		2			

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
2,4,6-Tribromophenol	84	90	30 - 130
2-Fluorophenol	77	81	30 - 130
Nitrobenzene-d5	86	87	30 - 130
Phenol-d5	86	97	30 - 130
2-Fluorobiphenyl	97	96	30 - 130
p-Terphenyl-d14	91	88	30 - 130

Client: Olin Corporation

Job Number: 480-30406-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 480-96561

Method: 8270D
Preparation: 3546

LCS Lab Sample ID:	LCS 480-96561/2-A	Units:	ug/Kg	LCSD Lab Sample ID:	LCSD 480-96561/3-A
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/20/2012 1542			Analysis Date:	12/20/2012 1608
Prep Date:	12/19/2012 0930			Prep Date:	12/19/2012 0930
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
1,2,4-Trichlorobenzene	265	265	210	223
1,2-Dichlorobenzene	265	265	204	212
1,3-Dichlorobenzene	265	265	195	204
Benzaldehyde	265	265	238	252
1,4-Dichlorobenzene	265	265	208	207
2,2'-oxybis[1-chloropropane]	265	265	194	209
2,4,5-Trichlorophenol	265	265	247	254
2,4,6-Trichlorophenol	265	265	255	273
Benzyl alcohol	265	265	176	143
2,4-Dichlorophenol	265	265	228	246
2,4-Dimethylphenol	265	265	240	249
2,4-Dinitrophenol	265	265	251	116 *
2,4-Dinitrotoluene	265	265	236	242
4-Nitroaniline	265	265	171	184
2,6-Dinitrotoluene	265	265	123	128
2-Chloronaphthalene	265	265	219	227
2-Chlorophenol	265	265	236	243
N-Nitrosodiphenylamine	265	265	144	145
2-Methylnaphthalene	265	265	203	219
2-Methylphenol	265	265	261	239
2-Nitrophenol	265	265	233	239
3,3'-Dichlorobenzidine	265	265	225	242
2-Nitroaniline	265	265	254	277
4-Bromophenyl phenyl ether	265	265	266	277
Hexachlorocyclopentadiene	265	265	192	201
4-Chloroaniline	254	254	190	208
4-Nitrophenol	265	265	240	36.2 J *
Acenaphthene	265	265	215	225
4,6-Dinitro-2-methylphenol	265	265	189	221
1,2,4,5-Tetrachlorobenzene	530	530	561	604
Acenaphthylene	265	265	246	254
Acetophenone	530	530	502	540
Aniline	291	291	225	237
Anthracene	265	265	254	259
Atrazine	265	265	218	265
Azobenzene	265	265	710 E *	684 * E
Benzo[a]anthracene	265	265	277	278
Benzo[a]pyrene	265	265	235	248
Benzo[b]fluoranthene	265	265	248	267

Client: Olin Corporation

Job Number: 480-30406-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 480-96561

Method: 8270D
Preparation: 3546

LCS Lab Sample ID:	LCS 480-96561/2-A	Units:	ug/Kg	LCSD Lab Sample ID:	LCSD 480-96561/3-A
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/20/2012 1542			Analysis Date:	12/20/2012 1608
Prep Date:	12/19/2012 0930			Prep Date:	12/19/2012 0930
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Benzo[g,h,i]perylene	265	265	160	154
Caprolactam	265	265	232	309
3-Nitroaniline	260	260	175	235
Benzo[k]fluoranthene	265	265	298	302
Bis(2-chloroethoxy)methane	265	265	235	235
1,1'-Biphenyl	265	265	273	291
Bis(2-chloroethyl)ether	265	265	219	225
Bis(2-ethylhexyl) phthalate	265	265	231	254
Butyl benzyl phthalate	265	265	224	243
Chrysene	265	265	236	261
N-Nitrosodi-n-propylamine	265	265	239	237
Benzoic acid	265	265	337	376
Dibenz(a,h)anthracene	265	265	168	172
Dibenzofuran	265	265	253	256
Diethyl phthalate	265	265	240	253
Dimethyl phthalate	265	265	239	256
Di-n-butyl phthalate	265	265	273	277
Di-n-octyl phthalate	265	265	285	298
Phenyl ether	265	265	326	287
2,3,4,6-Tetrachlorophenol	530	530	493	585
Fluoranthene	265	265	209	205
4-Chloro-3-methylphenol	265	265	241	275
Fluorene	265	265	226	236
4-Chlorophenyl phenyl ether	265	265	238	239
Hexachlorobenzene	265	265	257	254
Hexachlorobutadiene	265	265	203	218
Hexachloroethane	265	265	210	216
Indeno[1,2,3-cd]pyrene	265	265	158	162
Isophorone	265	265	226	242
Naphthalene	265	265	212	218
Nitrobenzene	265	265	233	232
Pentachlorophenol	265	265	233	260
Phenanthrene	265	265	253	255
Benzophenone	265	265	294	283
Phenol	265	265	234	250
Pyrene	265	265	220	239
N-Nitrosodimethylamine	265	265	189	194
Carbazole	265	265	219	226
1-Methylnaphthalene	530	530	503	486

Client: Olin Corporation

Job Number: 480-30406-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 480-96561

Method: 8270D
Preparation: 3546

LCS Lab Sample ID:	LCS 480-96561/2-A	Units:	ug/Kg	LCSD Lab Sample ID:	LCSD 480-96561/3-A
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/20/2012 1542			Analysis Date:	12/20/2012 1608
Prep Date:	12/19/2012 0930			Prep Date:	12/19/2012 0930
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
4-Methylphenol	530	530	527	515

Client: Olin Corporation

Job Number: 480-30406-1

Method Blank - Batch: 440-75585

Method: 7199
Preparation: 3060A

Lab Sample ID:	MB 440-75585/1-A	Analysis Batch:	440-76371	Instrument ID:	IC-16
Client Matrix:	Solid	Prep Batch:	440-75585	Lab File ID:	Info 2_TAIIRV167_Hex
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	1.26 g
Analysis Date:	12/31/2012 1327	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	12/27/2012 0926			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Cr (VI)	ND		0.15	0.20

Lab Control Sample - Batch: 440-75585

Method: 7199
Preparation: 3060A

Lab Sample ID:	LCS 440-75585/2-A	Analysis Batch:	440-76371	Instrument ID:	IC-16
Client Matrix:	Solid	Prep Batch:	440-75585	Lab File ID:	Info 2_TAIIRV167_Hex
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	1.26 g
Analysis Date:	12/31/2012 1339	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	12/27/2012 0926			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cr (VI)	15.9	10.5	66	65 - 110	

Client: Olin Corporation

Job Number: 480-30406-1

Method Blank - Batch: 320-7689

Method: GCMSMS_NDMA
Preparation: 3550B

Lab Sample ID:	MB 320-7689/1-A	Analysis Batch:	320-8232	Instrument ID:	IT1
Client Matrix:	Solid	Prep Batch:	320-7689	Lab File ID:	MB 320-7689-1-A,
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 g
Analysis Date:	01/03/2013 1418	Units:	ug/Kg	Final Weight/Volume:	.5 mL
Prep Date:	12/20/2012 1347			Injection Volume:	20 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
N-Nitrosodimethylamine-d6	11.6			
N-Nitrosodimethylamine	ND		0.76	5.0

Lab Control Sample - Batch: 320-7689

Method: GCMSMS_NDMA
Preparation: 3550B

Lab Sample ID:	LCS 320-7689/2-A	Analysis Batch:	320-8232	Instrument ID:	IT1
Client Matrix:	Solid	Prep Batch:	320-7689	Lab File ID:	LCS 320-7689-2-A,
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 g
Analysis Date:	01/03/2013 1521	Units:	ug/Kg	Final Weight/Volume:	.5 mL
Prep Date:	12/20/2012 1347			Injection Volume:	20 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
N-Nitrosodimethylamine-d6	10.0	11.1	111	50 - 150	
N-Nitrosodimethylamine	10.0	9.56	96	70 - 130	E

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 320-7689

Method: GCMSMS_NDMA
Preparation: 3550B

MS Lab Sample ID:	480-30406-1	Analysis Batch:	320-8232	Instrument ID:	IT1
Client Matrix:	Solid	Prep Batch:	320-7689	Lab File ID:	480-30406-B-1-B MS,
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	9.67 g
Analysis Date:	01/03/2013 1727			Final Weight/Volume:	.5 mL
Prep Date:	12/20/2012 1347			Injection Volume:	20 uL
Leach Date:	N/A				

MSD Lab Sample ID:	480-30406-1	Analysis Batch:	320-8232	Instrument ID:	IT1
Client Matrix:	Solid	Prep Batch:	320-7689	Lab File ID:	480-30406-B-1-C MSD,
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.44 g
Analysis Date:	01/03/2013 1830			Final Weight/Volume:	.5 mL
Prep Date:	12/20/2012 1347			Injection Volume:	20 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
N-Nitrosodimethylamine	114	92	70 - 130	29	35	E	E

Client: Olin Corporation

Job Number: 480-30406-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 320-7689

Method: GCMSMS_NDMA
Preparation: 3550B

MS Lab Sample ID:	480-30406-1	Units:	ug/Kg	MSD Lab Sample ID:	480-30406-1
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	01/03/2013 1727			Analysis Date:	01/03/2013 1830
Prep Date:	12/20/2012 1347			Prep Date:	12/20/2012 1347
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
N-Nitrosodimethylamine	ND	16.2	15.0	18.4	E	13.8	E

Client: Olin Corporation

Job Number: 480-30406-1

Method Blank - Batch: 480-104616

Method: 6010
Preparation: 3050B

Lab Sample ID:	MB 480-104616/1-A	Analysis Batch:	480-104944	Instrument ID:	ICAP1
Client Matrix:	Solid	Prep Batch:	480-104616	Lab File ID:	I1022613A-1.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.5002 g
Analysis Date:	02/26/2013 1142	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	02/25/2013 0910				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Tin	ND	^	0.43	2.0

LCS-Certified Reference Material/
LCSD - Certified Reference Material Recovery Report - Batch: 480-104616

Method: 6010
Preparation: 3050B

LCS Lab Sample ID:	LCSSRM 480-104616/2-A	Analysis Batch:	480-104944	Instrument ID:	ICAP1
Client Matrix:	Solid	Prep Batch:	480-104616	Lab File ID:	I1022613A-1.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.5007 g
Analysis Date:	02/26/2013 1144	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	02/25/2013 0910				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCDSRM 480-104616/3-A	Analysis Batch:	480-104944	Instrument ID:	ICAP1
Client Matrix:	Solid	Prep Batch:	480-104616	Lab File ID:	I1022613A-1.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.5005 g
Analysis Date:	02/26/2013 1146	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	02/25/2013 0910				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Tin	99.0	103.6	60.0 - 139.5	5	20	^	^

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 480-104616

Method: 6010
Preparation: 3050B

LCS Lab Sample ID:	LCSSRM 480-104616/2-A	Units:	mg/Kg
Client Matrix:	Solid		
Dilution:	1.0		
Analysis Date:	02/26/2013 1144		
Prep Date:	02/25/2013 0910		
Leach Date:	N/A		

LCSD Lab Sample ID:	LCDSRM 480-104616/3-A
Client Matrix:	Solid
Dilution:	1.0
Analysis Date:	02/26/2013 1146
Prep Date:	02/25/2013 0910
Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
Tin	157	157	155	^	163	^

Client: Olin Corporation

Job Number: 480-30406-1

Method Blank - Batch: 480-96586

Method: 6010
Preparation: 3050B

Lab Sample ID:	MB 480-96586/1-A	Analysis Batch:	480-96762	Instrument ID:	ICAP1
Client Matrix:	Solid	Prep Batch:	480-96586	Lab File ID:	I1121912A-10.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.4742 g
Analysis Date:	12/19/2012 2104	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	12/19/2012 1200				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Silver	ND	^	0.21	0.53
Arsenic	ND		0.42	1.1
Barium	ND		0.12	0.53
Beryllium	ND		0.030	0.21
Cadmium	ND		0.032	0.21
Chromium	ND		0.21	0.53
Nickel	ND		0.24	1.1
Thallium	ND		0.32	1.1
Vanadium	ND		0.12	0.53
Zinc	0.299	J	0.16	2.6
Lead	ND		0.25	0.53
Selenium	ND		0.42	0.53
Antimony	ND		0.42	0.53
Sodium	ND		14	150
Potassium	ND		21	32
Calcium	8.95	J	3.5	53
Iron	3.90	J	1.2	11
Magnesium	ND		0.98	21
Copper	ND		0.22	1.1
Aluminum	ND		4.6	11
Manganese	0.0833	J	0.034	0.21
Cobalt	ND		0.053	0.53

Client: Olin Corporation

Job Number: 480-30406-1

LCS-Certified Reference Material/ LCSD - Certified Reference Material Recovery Report - Batch: 480-96586

Method: 6010
Preparation: 3050B

LCS Lab Sample ID:	LCSSRM 480-96586/2-A	Analysis Batch:	480-96762	Instrument ID:	ICAP1
Client Matrix:	Solid	Prep Batch:	480-96586	Lab File ID:	I1121912A-10.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.4994 g
Analysis Date:	12/19/2012 2106	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	12/19/2012 1200				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCDSRM 480-96586/3-A	Analysis Batch:	480-96762	Instrument ID:	ICAP1
Client Matrix:	Solid	Prep Batch:	480-96586	Lab File ID:	I1121912A-10.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.5001 g
Analysis Date:	12/19/2012 2109	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	12/19/2012 1200				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Silver	87.7	99.0	66.4 - 133.9	12	20	^	^
Arsenic	90.8	99.1	82.2 - 117.5	9	20		
Barium	84.8	94.6	83.1 - 116.3	11	20		
Beryllium	91.9	99.7	83.8 - 116.2	8	20		
Cadmium	95.3	100.9	84.0 - 115.9	6	20		
Chromium	89.8	96.0	81.4 - 118.6	6	20		
Nickel	97.4	104.5	82.2 - 117.8	7	20		
Thallium	95.1	103.3	81.1 - 119.3	8	20		
Vanadium	88.5	95.5	72.8 - 127.2	7	20		
Zinc	94.3	102.1	81.0 - 119.0	8	20		
Lead	95.9	102.1	82.4 - 117.8	6	20		
Selenium	92.6	99.6	79.2 - 120.8	7	20		
Antimony	79.9	80.5	8.2 - 191.6	1	20		
Sodium	91.0	98.5	73.6 - 126.2	8	20		
Potassium	87.1	94.5	73.6 - 126.4	8	20		
Calcium	89.0	97.8	82.3 - 117.5	9	20		
Iron	70.0	78.1	50.6 - 149.2	11	20		
Magnesium	84.3	91.1	76.2 - 123.8	8	20		
Copper	94.6	101.3	83.7 - 116.2	7	20		
Aluminum	74.0	81.2	40.4 - 159.1	9	20		
Manganese	87.8	93.3	81.6 - 118.0	6	20		
Cobalt	97.4	105.6	83.8 - 115.8	8	20		

Client: Olin Corporation

Job Number: 480-30406-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 480-96586

Method: 6010
Preparation: 3050B

LCS Lab Sample ID:	LCSSRM 480-96586/2-A	Units:	mg/Kg	LCSD Lab Sample ID:	LCDSRM 480-96586/3-A
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/19/2012 2106			Analysis Date:	12/19/2012 2109
Prep Date:	12/19/2012 1200			Prep Date:	12/19/2012 1200
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Silver	33.9	33.9	29.8 ^	33.6 ^
Arsenic	94.6	94.5	85.9	93.7
Barium	166	166	141	157
Beryllium	52.7	52.6	48.4	52.4
Cadmium	60.0	59.9	57.1	60.4
Chromium	69.4	69.3	62.3	66.5
Nickel	56.7	56.6	55.2	59.1
Thallium	119	119	113	123
Vanadium	56.4	56.3	49.9	53.8
Zinc	137	137	129	140
Lead	91.8	91.7	88.0	93.6
Selenium	159	159	147	158
Antimony	93.0	92.9	74.3	74.7
Sodium	653	652	594	642
Potassium	3820	3820	3330	3610
Calcium	6170	6160	5490	6020
Iron	12800	12800	8970	10000
Magnesium	3030	3030	2560	2760
Copper	78.1	78.0	73.8	79.0
Aluminum	8370	8360	6190	6780
Manganese	283	283	249	264
Cobalt	101	101	98.5	107

Client: Olin Corporation

Job Number: 480-30406-1

Post Digestion Spike - Batch: 480-96586

Method: 6010
Preparation: 3050B

Lab Sample ID:	480-30406-4	Analysis Batch:	480-96762	Instrument ID:	ICAP1
Client Matrix:	Solid	Prep Batch:	480-96586	Lab File ID:	I1121912A-10.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.4979 g
Analysis Date:	12/19/2012 2147	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	12/19/2012 1200				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Silver	ND		14.5	14.0	97	75 - 125	^
Arsenic	8.1		57.9	67.1	102	75 - 125	
Barium	46		57.9	95.3	85	75 - 125	
Beryllium	0.090	J	57.9	56.9	98	75 - 125	
Cadmium	0.26	J	57.9	59.0	102	75 - 125	
Chromium	27		57.9	85.2	101	75 - 125	
Nickel	8.7		57.9	69.1	104	75 - 125	
Thallium	ND		57.9	60.6	105	75 - 125	
Vanadium	16		57.9	76.6	105	75 - 125	
Lead	50		57.9	110	104	75 - 125	
Selenium	ND		57.9	58.3	101	75 - 125	
Antimony	ND		57.9	57.5	99	75 - 125	
Sodium	150	J	2900	3030	100	75 - 125	
Potassium	730		2900	3540	97	75 - 125	
Calcium	3800		2890	6440	90	75 - 125	
Iron	9200		2890	11300	72	75 - 125	W
Magnesium	1800		2890	4500	92	75 - 125	
Copper	21		57.9	78.3	100	75 - 125	
Aluminum	6500		2900	8890	84	75 - 125	
Manganese	440		57.9	469	52	75 - 125	W
Cobalt	3.9		57.9	66.0	107	75 - 125	

Post Digestion Spike - Batch: 480-96586

Method: 6010
Preparation: 3050B

Lab Sample ID:	480-30406-4	Analysis Batch:	480-96876	Instrument ID:	ICAP2
Client Matrix:	Solid	Prep Batch:	480-96586	Lab File ID:	I2122012A-3.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.4979 g
Analysis Date:	12/20/2012 1246	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	12/19/2012 1200				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Zinc	65	57.9	125	102	75 - 125	

Client: Olin Corporation

Job Number: 480-30406-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-96586

Method: 6010
Preparation: 3050B

MS Lab Sample ID:	480-30406-4	Analysis Batch:	480-96762	Instrument ID:	ICAP1
Client Matrix:	Solid	Prep Batch:	480-96586	Lab File ID:	I1121912A-10.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.4873 g
Analysis Date:	12/19/2012 2150			Final Weight/Volume:	50 mL
Prep Date:	12/19/2012 1200				
Leach Date:	N/A				

MSD Lab Sample ID:	480-30406-4	Analysis Batch:	480-96762	Instrument ID:	ICAP1
Client Matrix:	Solid	Prep Batch:	480-96586	Lab File ID:	I1121912A-10.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.5277 g
Analysis Date:	12/19/2012 2156			Final Weight/Volume:	50 mL
Prep Date:	12/19/2012 1200				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Silver	98	96	75 - 125	9	35	^	^
Arsenic	103	95	75 - 125	14	35		
Barium	89	85	75 - 125	6	35		
Beryllium	96	94	75 - 125	11	35		
Cadmium	103	98	75 - 125	13	35		
Chromium	101	91	75 - 125	13	35		
Nickel	108	100	75 - 125	14	35		
Thallium	105	99	75 - 125	14	35		
Vanadium	112	106	75 - 125	11	35		
Lead	98	79	75 - 125	15	35		
Selenium	75	73	75 - 125	11	35		F
Antimony	91	86	75 - 125	13	35		
Sodium	102	98	75 - 125	11	35		
Potassium	103	97	75 - 125	12	35		
Calcium	105	99	75 - 125	6	35		
Iron	103	71	75 - 125	9	35		F
Magnesium	104	92	75 - 125	12	35		
Copper	105	98	75 - 125	11	35		
Aluminum	140	114	75 - 125	10	35	F	
Manganese	128	118	75 - 125	2	35	4	4
Cobalt	109	102	75 - 125	14	35		

Client: Olin Corporation

Job Number: 480-30406-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-96586

Method: 6010
Preparation: 3050B

MS Lab Sample ID:	480-30406-4	Analysis Batch:	480-96876	Instrument ID:	ICAP2
Client Matrix:	Solid	Prep Batch:	480-96586	Lab File ID:	I2122012A-3.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.4873 g
Analysis Date:	12/20/2012 1248			Final Weight/Volume:	50 mL
Prep Date:	12/19/2012 1200				
Leach Date:	N/A				

MSD Lab Sample ID:	480-30406-4	Analysis Batch:	480-96876	Instrument ID:	ICAP2
Client Matrix:	Solid	Prep Batch:	480-96586	Lab File ID:	I2122012A-3.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.5277 g
Analysis Date:	12/20/2012 1250			Final Weight/Volume:	50 mL
Prep Date:	12/19/2012 1200				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Zinc	100	85	75 - 125	11	35		

Client: Olin Corporation

Job Number: 480-30406-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-96586

Method: 6010
Preparation: 3050B

MS Lab Sample ID:	480-30406-4	Units:	mg/Kg	MSD Lab Sample ID:	480-30406-4
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/19/2012 2150			Analysis Date:	12/19/2012 2156
Prep Date:	12/19/2012 1200			Prep Date:	12/19/2012 1200
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Silver	ND		14.8	13.6	14.5	^	13.2	^
Arsenic	8.1		59.1	54.6	69.1		60.0	
Barium	46		59.1	54.6	98.7		92.6	
Beryllium	0.090	J	59.1	54.6	57.1		51.2	
Cadmium	0.26	J	59.1	54.6	61.0		53.5	
Chromium	27		59.1	54.6	87.0		76.6	
Nickel	8.7		59.1	54.6	72.6		63.2	
Thallium	ND		59.1	54.6	62.2		54.1	
Vanadium	16		59.1	54.6	82.1		73.5	
Lead	50		59.1	54.6	107		92.8	
Selenium	ND		59.1	54.6	44.4		39.8	F
Antimony	ND		59.1	54.6	53.6		47.0	
Sodium	150	J	2960	2740	3160		2810	
Potassium	730		2960	2730	3790		3370	
Calcium	3800		2960	2730	6940		6550	
Iron	9200		2960	2730	12200		11200	F
Magnesium	1800		2960	2730	4900		4350	
Copper	21		59.1	54.6	82.8		73.9	
Aluminum	6500		2960	2730	10600	F	9580	
Manganese	440		59.1	54.6	515	4	504	4
Cobalt	3.9		59.1	54.6	68.6		59.8	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-96586

Method: 6010
Preparation: 3050B

MS Lab Sample ID:	480-30406-4	Units:	mg/Kg	MSD Lab Sample ID:	480-30406-4
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/20/2012 1248			Analysis Date:	12/20/2012 1250
Prep Date:	12/19/2012 1200			Prep Date:	12/19/2012 1200
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Zinc	65	59.1	54.6	125	112

Client: Olin Corporation

Job Number: 480-30406-1

Serial Dilution - Batch: 480-96586

Method: 6010
Preparation: 3050B

Lab Sample ID:	480-30406-4	Analysis Batch:	480-96762	Instrument ID:	ICAP1
Client Matrix:	Solid	Prep Batch:	480-96586	Lab File ID:	I1121912A-10.asc
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.4979 g
Analysis Date:	12/19/2012 2145	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	12/19/2012 1200				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Silver	ND		ND	NC	10	^
Arsenic	8.1		7.57	NC	10	
Barium	46		48.5	4.9	10	
Beryllium	0.090	J	ND	NC	10	
Cadmium	0.26	J	0.297	NC	10	J
Chromium	27		28.6	6.0	10	
Nickel	8.7		9.28	NC	10	
Thallium	ND		ND	NC	10	
Vanadium	16		16.6	5.6	10	
Lead	50		52.9	6.5	10	
Selenium	ND		ND	NC	10	
Antimony	ND		ND	NC	10	
Sodium	150	J	126	NC	10	J
Potassium	730		748	NC	10	
Calcium	3800		4050	5.3	10	
Iron	9200		9770	6.2	10	
Magnesium	1800		1980	8.4	10	
Copper	21		22.3	8.1	10	
Aluminum	6500		6740	4.3	10	
Manganese	440		469	6.6	10	
Cobalt	3.9		3.99	2.0	10	

Serial Dilution - Batch: 480-96586

Method: 6010
Preparation: 3050B

Lab Sample ID:	480-30406-4	Analysis Batch:	480-96876	Instrument ID:	ICAP2
Client Matrix:	Solid	Prep Batch:	480-96586	Lab File ID:	I2122012A-3.asc
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.4979 g
Analysis Date:	12/20/2012 1239	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	12/19/2012 1200				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Zinc	65	68.1	4.1	10	

Client: Olin Corporation

Job Number: 480-30406-1

Method Blank - Batch: 480-96554

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 480-96554/1-A	Analysis Batch:	480-96597	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-96554	Lab File ID:	J12192S1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.6544 g
Analysis Date:	12/19/2012 1221	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	12/19/2012 0940				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	ND		0.0074	0.092

LCS-Certified Reference Material/
LCSD - Certified Reference Material Recovery Report - Batch: 480-96554

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID:	LCSSRM 480-96554/2-A	Analysis Batch:	480-96597	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-96554	Lab File ID:	J12192S1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.0534 g
Analysis Date:	12/19/2012 1223	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	12/19/2012 0940				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCDSRM 480-96554/3-A	Analysis Batch:	480-96597	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-96554	Lab File ID:	J12192S1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.0531 g
Analysis Date:	12/19/2012 1224	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	12/19/2012 0940				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	84.2	84.2	50.9 - 149.1	0			

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 480-96554

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID:	LCSSRM 480-96554/2-A	Units:	mg/Kg
Client Matrix:	Solid		
Dilution:	1.0		
Analysis Date:	12/19/2012 1223		
Prep Date:	12/19/2012 0940		
Leach Date:	N/A		

LCSD Lab Sample ID:	LCDSRM 480-96554/3-A
Client Matrix:	Solid
Dilution:	1.0
Analysis Date:	12/19/2012 1224
Prep Date:	12/19/2012 0940
Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Mercury	3.77	3.77	3.17	3.17

Client: Olin Corporation

Job Number: 480-30406-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-96554

Method: 7471A
Preparation: 7471A

MS Lab Sample ID:	480-30406-1	Analysis Batch:	480-96597	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-96554	Lab File ID:	J12192S1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.6016 g
Analysis Date:	12/19/2012 1250			Final Weight/Volume:	50 mL
Prep Date:	12/19/2012 0940				
Leach Date:	N/A				

MSD Lab Sample ID:	480-30406-1	Analysis Batch:	480-96597	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-96554	Lab File ID:	J12192S1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.6454 g
Analysis Date:	12/19/2012 1251			Final Weight/Volume:	50 mL
Prep Date:	12/19/2012 0940				
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	94	90	75 - 125	9	35		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-96554

Method: 7471A
Preparation: 7471A

MS Lab Sample ID:	480-30406-1	Units:	mg/Kg	MSD Lab Sample ID:	480-30406-1
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/19/2012 1250			Analysis Date:	12/19/2012 1251
Prep Date:	12/19/2012 0940			Prep Date:	12/19/2012 0940
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury	0.075	J	0.520	0.485	0.563	0.513

Serial Dilution - Batch: 480-96554

Method: 7471A
Preparation: 7471A

Lab Sample ID:	480-30406-1	Analysis Batch:	480-96597	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-96554	Lab File ID:	J12192S1.PRN
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.5991 g
Analysis Date:	12/19/2012 1248	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	12/19/2012 0940				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Mercury	0.075	J	0.0646	NC		J

Client: Olin Corporation

Job Number: 480-30406-1

Method Blank - Batch: 480-97680

Method: 300.0
Preparation: N/A

Lab Sample ID:	MB 480-97670/2-A	Analysis Batch:	480-97680	Instrument ID:	IC-2
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	122812-2_004-201212
Dilution:	1.0	Leach Batch:	480-97670	Initial Weight/Volume:	1 mL
Analysis Date:	12/28/2012 1226	Units:	mg/Kg	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	12/28/2012 1017				

Analyte	Result	Qual	MDL	RL
Chloride-Soluble	ND		2.8	4.9
Sulfate-Soluble	ND		3.4	20

Lab Control Sample - Batch: 480-97680

Method: 300.0
Preparation: N/A

Lab Sample ID:	LCS 480-97670/1-A	Analysis Batch:	480-97680	Instrument ID:	IC-2
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	122812-2_003-201212
Dilution:	1.0	Leach Batch:	480-97670	Initial Weight/Volume:	1 mL
Analysis Date:	12/28/2012 1215	Units:	mg/Kg	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	12/28/2012 1017				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Soluble	171	173	102	90 - 110	
Sulfate-Soluble	171	177	104	90 - 110	

Client: Olin Corporation

Job Number: 480-30406-1

Method Blank - Batch: 480-97203

Method: 350.1
Preparation: Distill/Ammonia

Lab Sample ID:	MB 480-97203/2-A	Analysis Batch:	480-97353	Instrument ID:	LACHAT1
Client Matrix:	Water	Prep Batch:	480-97203	Lab File ID:	NH12262A.FDT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/26/2012 0759	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	12/22/2012 1822				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Ammonia-ASTM Leach	ND		0.10	0.20

Lab Control Sample - Batch: 480-97203

Method: 350.1
Preparation: Distill/Ammonia

Lab Sample ID:	LCS 480-97203/1-A	Analysis Batch:	480-97353	Instrument ID:	LACHAT1
Client Matrix:	Water	Prep Batch:	480-97203	Lab File ID:	NH12262A.FDT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/26/2012 0758	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	12/22/2012 1822				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Ammonia-ASTM Leach	1.00	0.941	94	90 - 110	

Client: Olin Corporation

Job Number: 480-30406-1

Method Blank - Batch: 480-97353

Method: 350.1
Preparation: N/A

Lab Sample ID:	MB 480-96922/3-A	Analysis Batch:	480-97353	Instrument ID:	LACHAT1
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	NH12262A.FDT
Dilution:	1.0	Leach Batch:	480-96922	Initial Weight/Volume:	5 mL
Analysis Date:	12/26/2012 0848	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	12/20/2012 1636				

Analyte	Result	Qual	MDL	RL
Ammonia-ASTM Leach	ND		2.0	4.0

Client: Olin Corporation

Job Number: 480-30406-1

Lab Control Sample - Batch: 360-97429

Method: 9045C
Preparation: N/A

Lab Sample ID:	LCS 360-97427/1-A	Analysis Batch:	360-97429	Instrument ID:	pH meter
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	360-97427	Initial Weight/Volume:	
Analysis Date:	12/18/2012 1044	Units:	SU	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	12/18/2012 0945				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
pH-Soluble	6.00	5.950	99	90 - 110	

Duplicate - Batch: 360-97429

Method: 9045C
Preparation: N/A

Lab Sample ID:	480-30406-4	Analysis Batch:	360-97429	Instrument ID:	pH meter
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	360-97427	Initial Weight/Volume:	
Analysis Date:	12/18/2012 1101	Units:	SU	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	12/18/2012 0945				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH-Soluble	7.23	7.290	0.8	10.0	

Client: Olin Corporation

Job Number: 480-30406-1

Method Blank - Batch: 480-97733

Method: 9060
Preparation: N/A

Lab Sample ID:	MB 480-97733/27	Analysis Batch:	480-97733	Instrument ID:	TOC10301
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	C:\Documents and
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/28/2012 0409	Units:	mg/Kg	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
TOC Result 1-ASTM Leach	ND		0.36	1.0
TOC Result 2-ASTM Leach	ND		0.36	1.0
Total Organic Carbon - Duplicates-ASTM Leach	ND		0.36	1.0

Method Blank - Batch: 480-97733

Method: 9060
Preparation: N/A

Lab Sample ID:	MB 480-96922/1-A	Analysis Batch:	480-97733	Instrument ID:	TOC10301
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	C:\Documents and
Dilution:	1.0	Leach Batch:	480-96922	Initial Weight/Volume:	
Analysis Date:	12/28/2012 1228	Units:	mg/Kg	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	12/20/2012 1636				

Analyte	Result	Qual	MDL	RL
TOC Result 1-ASTM Leach	ND		7.2	20
TOC Result 2-ASTM Leach	ND		7.2	20
Total Organic Carbon - Duplicates-ASTM Leach	ND		7.2	20

Lab Control Sample - Batch: 480-97733

Method: 9060
Preparation: N/A

Lab Sample ID:	LCS 480-97733/28	Analysis Batch:	480-97733	Instrument ID:	TOC10301
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	C:\Documents and
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/28/2012 0438	Units:	mg/Kg	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
TOC Result 1-ASTM Leach	60.0	58.7	98	90 - 110	
TOC Result 2-ASTM Leach	60.0	62.6	104	90 - 110	
Total Organic Carbon - Duplicates-ASTM	60.0	60.7	101	90 - 110	

Client: Olin Corporation

Job Number: 480-30406-1

Lab Control Sample - Batch: 360-97430

Method: SM 2580B
Preparation: N/A

Lab Sample ID:	LCS 360-97428/1-A	Analysis Batch:	360-97430	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	360-97428	Initial Weight/Volume:	
Analysis Date:	12/18/2012 1038	Units:	millivolts	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	12/18/2012 0945				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Oxidation Reduction Potential-Soluble	475	476	100	85 - 115	

Duplicate - Batch: 360-97430

Method: SM 2580B
Preparation: N/A

Lab Sample ID:	480-30406-4	Analysis Batch:	360-97430	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	360-97428	Initial Weight/Volume:	
Analysis Date:	12/18/2012 1101	Units:	millivolts	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	12/18/2012 0945				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Oxidation Reduction Potential-Soluble	(-) 32	(-) 32	NC	20	

DATA REPORTING QUALIFIERS

Client: Olin Corporation

Job Number: 480-30406-1

Lab Section	Qualifier	Description
GC/MS VOA		
	J	Indicates an Estimated Value for TICs
	*	LCS or LCSD exceeds the control limits
	N	Presumptive evidence of material.
	T	Result is a tentatively identified compound (TIC) and an estimated value.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC/MS Semi VOA		
	J	Indicates an Estimated Value for TICs
	*	LCS or LCSD exceeds the control limits
	N	Presumptive evidence of material.
	E	Result exceeded calibration range.
	T	Result is a tentatively identified compound (TIC) and an estimated value.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	*	RPD of the LCS and LCSD exceeds the control limits
	X	Surrogate is outside control limits
HPLC/IC		
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
LCMS		
	E	Result exceeded calibration range.

DATA REPORTING QUALIFIERS

Client: Olin Corporation

Job Number: 480-30406-1

Lab Section	Qualifier	Description
Metals		
	B	Compound was found in the blank and sample.
	^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
	F	MS or MSD exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	W	PS: Post-digestion spike was outside control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Client: Olin Corporation

Job Number: 480-30406-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:480-96559					
LCS 480-96559/5	Lab Control Sample	T	Solid	8260C	
LCSD 480-96559/6	Lab Control Sample Duplicate	T	Solid	8260C	
MB 480-96559/7	Method Blank	T	Solid	8260C	
480-30406-1	OC-SD-SD-503-XXX	T	Solid	8260C	480-96598
480-30406-2	OC-SD-SD-504-XXX	T	Solid	8260C	480-96598
480-30406-3	OC-SD-SD-501-XXX	T	Solid	8260C	480-96598
480-30406-4	OC-SD-SD-502-XXX	T	Solid	8260C	480-96598
Prep Batch: 480-96598					
480-30406-1	OC-SD-SD-503-XXX	T	Solid	5035	
480-30406-2	OC-SD-SD-504-XXX	T	Solid	5035	
480-30406-3	OC-SD-SD-501-XXX	T	Solid	5035	
480-30406-4	OC-SD-SD-502-XXX	T	Solid	5035	

Report Basis
T = Total

GC/MS Semi VOA					
Prep Batch: 480-96561					
LCS 480-96561/2-A	Lab Control Sample	T	Solid	3546	
LCSD 480-96561/3-A	Lab Control Sample Duplicate	T	Solid	3546	
MB 480-96561/1-A	Method Blank	T	Solid	3546	
480-30406-1	OC-SD-SD-503-XXX	T	Solid	3546	
480-30406-2	OC-SD-SD-504-XXX	T	Solid	3546	
480-30406-3	OC-SD-SD-501-XXX	T	Solid	3546	
480-30406-4	OC-SD-SD-502-XXX	T	Solid	3546	
Analysis Batch:480-96803					
LCS 480-96561/2-A	Lab Control Sample	T	Solid	8270D	480-96561
LCSD 480-96561/3-A	Lab Control Sample Duplicate	T	Solid	8270D	480-96561
MB 480-96561/1-A	Method Blank	T	Solid	8270D	480-96561
Analysis Batch:480-97046					
480-30406-1	OC-SD-SD-503-XXX	T	Solid	8270D	480-96561
480-30406-2	OC-SD-SD-504-XXX	T	Solid	8270D	480-96561
480-30406-3	OC-SD-SD-501-XXX	T	Solid	8270D	480-96561
480-30406-4	OC-SD-SD-502-XXX	T	Solid	8270D	480-96561

Report Basis
T = Total

Client: Olin Corporation

Job Number: 480-30406-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 480-96554					
LCSSRM 480-96554/2-A	LCS-Certified Reference Material	T	Solid	7471A	
LCDSRM 480-96554/3-A	LCSD - Certified Reference Material	T	Solid	7471A	
MB 480-96554/1-A	Method Blank	T	Solid	7471A	
480-30406-1	OC-SD-SD-503-XXX	T	Solid	7471A	
480-30406-1MS	Matrix Spike	T	Solid	7471A	
480-30406-1MSD	Matrix Spike Duplicate	T	Solid	7471A	
480-30406-2	OC-SD-SD-504-XXX	T	Solid	7471A	
480-30406-3	OC-SD-SD-501-XXX	T	Solid	7471A	
480-30406-4	OC-SD-SD-502-XXX	T	Solid	7471A	
Prep Batch: 480-96586					
LCSSRM 480-96586/2-A	LCS-Certified Reference Material	T	Solid	3050B	
LCDSRM 480-96586/3-A	LCSD - Certified Reference Material	T	Solid	3050B	
MB 480-96586/1-A	Method Blank	T	Solid	3050B	
480-30406-1	OC-SD-SD-503-XXX	T	Solid	3050B	
480-30406-2	OC-SD-SD-504-XXX	T	Solid	3050B	
480-30406-3	OC-SD-SD-501-XXX	T	Solid	3050B	
480-30406-4	OC-SD-SD-502-XXX	T	Solid	3050B	
480-30406-4MS	Matrix Spike	T	Solid	3050B	
480-30406-4MSD	Matrix Spike Duplicate	T	Solid	3050B	
Analysis Batch:480-96597					
LCSSRM 480-96554/2-A	LCS-Certified Reference Material	T	Solid	7471A	480-96554
LCDSRM 480-96554/3-A	LCSD - Certified Reference Material	T	Solid	7471A	480-96554
MB 480-96554/1-A	Method Blank	T	Solid	7471A	480-96554
480-30406-1	OC-SD-SD-503-XXX	T	Solid	7471A	480-96554
480-30406-1MS	Matrix Spike	T	Solid	7471A	480-96554
480-30406-1MSD	Matrix Spike Duplicate	T	Solid	7471A	480-96554
480-30406-2	OC-SD-SD-504-XXX	T	Solid	7471A	480-96554
480-30406-3	OC-SD-SD-501-XXX	T	Solid	7471A	480-96554
480-30406-4	OC-SD-SD-502-XXX	T	Solid	7471A	480-96554
Analysis Batch:480-96762					
LCSSRM 480-96586/2-A	LCS-Certified Reference Material	T	Solid	6010	480-96586
LCDSRM 480-96586/3-A	LCSD - Certified Reference Material	T	Solid	6010	480-96586
MB 480-96586/1-A	Method Blank	T	Solid	6010	480-96586
480-30406-1	OC-SD-SD-503-XXX	T	Solid	6010	480-96586
480-30406-2	OC-SD-SD-504-XXX	T	Solid	6010	480-96586
480-30406-3	OC-SD-SD-501-XXX	T	Solid	6010	480-96586
480-30406-4	OC-SD-SD-502-XXX	T	Solid	6010	480-96586
480-30406-4MS	Matrix Spike	T	Solid	6010	480-96586
480-30406-4MSD	Matrix Spike Duplicate	T	Solid	6010	480-96586

Client: Olin Corporation

Job Number: 480-30406-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:480-96876					
480-30406-1	OC-SD-SD-503-XXX	T	Solid	6010	480-96586
480-30406-2	OC-SD-SD-504-XXX	T	Solid	6010	480-96586
480-30406-3	OC-SD-SD-501-XXX	T	Solid	6010	480-96586
480-30406-4	OC-SD-SD-502-XXX	T	Solid	6010	480-96586
480-30406-4MS	Matrix Spike	T	Solid	6010	480-96586
480-30406-4MSD	Matrix Spike Duplicate	T	Solid	6010	480-96586
Prep Batch: 480-104616					
LCSSRM 480-104616/2-A	LCS-Certified Reference Material	T	Solid	3050B	
LCDSRM 480-104616/3-A	LCSD - Certified Reference Material	T	Solid	3050B	
MB 480-104616/1-A	Method Blank	T	Solid	3050B	
480-30406-1	OC-SD-SD-503-XXX	T	Solid	3050B	
480-30406-2	OC-SD-SD-504-XXX	T	Solid	3050B	
480-30406-3	OC-SD-SD-501-XXX	T	Solid	3050B	
480-30406-4	OC-SD-SD-502-XXX	T	Solid	3050B	
Analysis Batch:480-104944					
LCSSRM 480-104616/2-A	LCS-Certified Reference Material	T	Solid	6010	480-104616
LCDSRM 480-104616/3-A	LCSD - Certified Reference Material	T	Solid	6010	480-104616
MB 480-104616/1-A	Method Blank	T	Solid	6010	480-104616
480-30406-1	OC-SD-SD-503-XXX	T	Solid	6010	480-104616
480-30406-2	OC-SD-SD-504-XXX	T	Solid	6010	480-104616
480-30406-3	OC-SD-SD-501-XXX	T	Solid	6010	480-104616
480-30406-4	OC-SD-SD-502-XXX	T	Solid	6010	480-104616

Report Basis

T = Total

Client: Olin Corporation

Job Number: 480-30406-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
LCMS					
Prep Batch: 320-7689					
LCS 320-7689/2-A	Lab Control Sample	T	Solid	3550B	
MB 320-7689/1-A	Method Blank	T	Solid	3550B	
480-30406-1	OC-SD-SD-503-XXX	T	Solid	3550B	
480-30406-1MS	Matrix Spike	T	Solid	3550B	
480-30406-1MSD	Matrix Spike Duplicate	T	Solid	3550B	
480-30406-2	OC-SD-SD-504-XXX	T	Solid	3550B	
480-30406-3	OC-SD-SD-501-XXX	T	Solid	3550B	
480-30406-4	OC-SD-SD-502-XXX	T	Solid	3550B	
Analysis Batch:320-8232					
LCS 320-7689/2-A	Lab Control Sample	T	Solid	GCMSMS_NDMA	320-7689
MB 320-7689/1-A	Method Blank	T	Solid	GCMSMS_NDMA	320-7689
480-30406-1	OC-SD-SD-503-XXX	T	Solid	GCMSMS_NDMA	320-7689
480-30406-1MS	Matrix Spike	T	Solid	GCMSMS_NDMA	320-7689
480-30406-1MSD	Matrix Spike Duplicate	T	Solid	GCMSMS_NDMA	320-7689
480-30406-2	OC-SD-SD-504-XXX	T	Solid	GCMSMS_NDMA	320-7689
480-30406-3	OC-SD-SD-501-XXX	T	Solid	GCMSMS_NDMA	320-7689
Analysis Batch:320-8340					
480-30406-4	OC-SD-SD-502-XXX	T	Solid	GCMSMS_NDMA	320-7689

Report Basis

T = Total

Client: Olin Corporation

Job Number: 480-30406-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:480-96652					
480-30406-1	OC-SD-SD-503-XXX	T	Solid	Moisture	
480-30406-2	OC-SD-SD-504-XXX	T	Solid	Moisture	
480-30406-3	OC-SD-SD-501-XXX	T	Solid	Moisture	
480-30406-4	OC-SD-SD-502-XXX	T	Solid	Moisture	
Prep Batch: 480-96922					
MB 480-96922/1-A	Method Blank	Y	Solid	D3987-85	
MB 480-96922/3-A	Method Blank	Y	Solid	D3987-85	
480-30406-1	OC-SD-SD-503-XXX	Y	Solid	D3987-85	
480-30406-2	OC-SD-SD-504-XXX	Y	Solid	D3987-85	
480-30406-3	OC-SD-SD-501-XXX	Y	Solid	D3987-85	
480-30406-4	OC-SD-SD-502-XXX	Y	Solid	D3987-85	
Prep Batch: 480-97203					
LCS 480-97203/1-A	Lab Control Sample	T	Water	Distill/Ammonia	
MB 480-97203/2-A	Method Blank	T	Water	Distill/Ammonia	
480-30406-1	OC-SD-SD-503-XXX	Y	Solid	Distill/Ammonia	480-96922
480-30406-2	OC-SD-SD-504-XXX	Y	Solid	Distill/Ammonia	480-96922
480-30406-3	OC-SD-SD-501-XXX	Y	Solid	Distill/Ammonia	480-96922
480-30406-4	OC-SD-SD-502-XXX	Y	Solid	Distill/Ammonia	480-96922
Analysis Batch:480-97353					
MB 480-96922/3-A	Method Blank	Y	Solid	350.1	
LCS 480-97203/1-A	Lab Control Sample	T	Water	350.1	480-97203
MB 480-97203/2-A	Method Blank	T	Water	350.1	480-97203
480-30406-1	OC-SD-SD-503-XXX	Y	Solid	350.1	480-97203
480-30406-2	OC-SD-SD-504-XXX	Y	Solid	350.1	480-97203
480-30406-3	OC-SD-SD-501-XXX	Y	Solid	350.1	480-97203
480-30406-4	OC-SD-SD-502-XXX	Y	Solid	350.1	480-97203
Prep Batch: 360-97427					
LCS 360-97427/1-A	Lab Control Sample	S	Solid	DI Leach	
480-30406-1	OC-SD-SD-503-XXX	S	Solid	DI Leach	
480-30406-2	OC-SD-SD-504-XXX	S	Solid	DI Leach	
480-30406-3	OC-SD-SD-501-XXX	S	Solid	DI Leach	
480-30406-4	OC-SD-SD-502-XXX	S	Solid	DI Leach	
480-30406-4DU	Duplicate	S	Solid	DI Leach	
Prep Batch: 360-97428					
LCS 360-97428/1-A	Lab Control Sample	S	Solid	DI Leach	
480-30406-1	OC-SD-SD-503-XXX	S	Solid	DI Leach	
480-30406-2	OC-SD-SD-504-XXX	S	Solid	DI Leach	
480-30406-3	OC-SD-SD-501-XXX	S	Solid	DI Leach	
480-30406-4	OC-SD-SD-502-XXX	S	Solid	DI Leach	
480-30406-4DU	Duplicate	S	Solid	DI Leach	

Client: Olin Corporation

Job Number: 480-30406-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:360-97429					
LCS 360-97427/1-A	Lab Control Sample	S	Solid	9045C	
480-30406-1	OC-SD-SD-503-XXX	S	Solid	9045C	
480-30406-2	OC-SD-SD-504-XXX	S	Solid	9045C	
480-30406-3	OC-SD-SD-501-XXX	S	Solid	9045C	
480-30406-4	OC-SD-SD-502-XXX	S	Solid	9045C	
480-30406-4DU	Duplicate	S	Solid	9045C	
Analysis Batch:360-97430					
LCS 360-97428/1-A	Lab Control Sample	S	Solid	SM 2580B	
480-30406-1	OC-SD-SD-503-XXX	S	Solid	SM 2580B	
480-30406-2	OC-SD-SD-504-XXX	S	Solid	SM 2580B	
480-30406-3	OC-SD-SD-501-XXX	S	Solid	SM 2580B	
480-30406-4	OC-SD-SD-502-XXX	S	Solid	SM 2580B	
480-30406-4DU	Duplicate	S	Solid	SM 2580B	
Prep Batch: 480-97670					
LCS 480-97670/1-A	Lab Control Sample	S	Solid	DI Leach	
MB 480-97670/2-A	Method Blank	S	Solid	DI Leach	
480-30406-1	OC-SD-SD-503-XXX	S	Solid	DI Leach	
480-30406-2	OC-SD-SD-504-XXX	S	Solid	DI Leach	
480-30406-3	OC-SD-SD-501-XXX	S	Solid	DI Leach	
480-30406-4	OC-SD-SD-502-XXX	S	Solid	DI Leach	
Analysis Batch:480-97680					
LCS 480-97670/1-A	Lab Control Sample	S	Solid	300.0	
MB 480-97670/2-A	Method Blank	S	Solid	300.0	
480-30406-1	OC-SD-SD-503-XXX	S	Solid	300.0	
480-30406-2	OC-SD-SD-504-XXX	S	Solid	300.0	
480-30406-3	OC-SD-SD-501-XXX	S	Solid	300.0	
480-30406-4	OC-SD-SD-502-XXX	S	Solid	300.0	
Analysis Batch:480-97733					
LCS 480-97733/28	Lab Control Sample	T	Solid	9060	
MB 480-97733/27	Method Blank	T	Solid	9060	
MB 480-96922/1-A	Method Blank	Y	Solid	9060	
480-30406-1	OC-SD-SD-503-XXX	Y	Solid	9060	
480-30406-2	OC-SD-SD-504-XXX	Y	Solid	9060	
480-30406-3	OC-SD-SD-501-XXX	Y	Solid	9060	
480-30406-4	OC-SD-SD-502-XXX	Y	Solid	9060	

Report Basis

Y = ASTM Leach

S = Soluble

T = Total

Client: Olin Corporation

Job Number: 480-30406-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
HPLC/IC					
Prep Batch: 440-75585					
LCS 440-75585/2-A	Lab Control Sample	T	Solid	3060A	
MB 440-75585/1-A	Method Blank	T	Solid	3060A	
480-30406-1	OC-SD-SD-503-XXX	T	Solid	3060A	
480-30406-2	OC-SD-SD-504-XXX	T	Solid	3060A	
480-30406-3	OC-SD-SD-501-XXX	T	Solid	3060A	
480-30406-4	OC-SD-SD-502-XXX	T	Solid	3060A	
Analysis Batch:440-76371					
LCS 440-75585/2-A	Lab Control Sample	T	Solid	7199	440-75585
MB 440-75585/1-A	Method Blank	T	Solid	7199	440-75585
Analysis Batch:440-76481					
480-30406-1	OC-SD-SD-503-XXX	T	Solid	7199	440-75585
480-30406-2	OC-SD-SD-504-XXX	T	Solid	7199	440-75585
480-30406-3	OC-SD-SD-501-XXX	T	Solid	7199	440-75585
480-30406-4	OC-SD-SD-502-XXX	T	Solid	7199	440-75585

Report Basis

T = Total

Client: Olin Corporation

Job Number: 480-30406-1

Laboratory Chronicle

Lab ID: **480-30406-1** **Client ID:** **OC-SD-SD-503-XXX**

Sample Date/Time: 12/17/2012 14:30 Received Date/Time: 12/17/2012 18:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	480-30406-I-1-A		480-96559	480-96598	12/19/2012 13:30	1	TAL BUF	JMB
A:8260C	480-30406-I-1-A		480-96559	480-96598	12/19/2012 17:54	1	TAL BUF	JMB
P:3546	480-30406-D-1-A		480-97046	480-96561	12/19/2012 09:46	10	TAL BUF	DE
A:8270D	480-30406-D-1-A		480-97046	480-96561	12/21/2012 12:20	10	TAL BUF	RMM
P:3060A	480-30406-A-1-A		440-76481	440-75585	12/27/2012 09:26	10	TAL IRV	QPD
A:7199	480-30406-A-1-A		440-76481	440-75585	01/01/2013 20:25	10	TAL IRV	RW
P:3550B	480-30406-B-1-A		320-8232	320-7689	12/20/2012 13:47	1	TAL WSC	NK
A:GCMSMS_NDMA	480-30406-B-1-A		320-8232	320-7689	01/03/2013 16:24	1	TAL WSC	VMN
P:3050B	480-30406-E-1-D		480-96762	480-96586	12/19/2012 12:00	1	TAL BUF	SS
A:6010	480-30406-E-1-D		480-96762	480-96586	12/19/2012 21:36	1	TAL BUF	AH
P:3050B	480-30406-E-1-D		480-96876	480-96586	12/19/2012 12:00	1	TAL BUF	SS
A:6010	480-30406-E-1-D		480-96876	480-96586	12/20/2012 12:30	1	TAL BUF	AH
P:3050B	480-30406-C-1-G		480-104944	480-104616	02/25/2013 09:10	1	TAL BUF	JM
A:6010	480-30406-C-1-G		480-104944	480-104616	02/26/2013 11:49	1	TAL BUF	LH
P:7471A	480-30406-E-1-A		480-96597	480-96554	12/19/2012 09:40	1	TAL BUF	JRK
A:7471A	480-30406-E-1-A		480-96597	480-96554	12/19/2012 12:46	1	TAL BUF	JRK
A:300.0	480-30406-A-1-B		480-97680		12/28/2012 12:36	1	TAL BUF	KAC
P:Distill/Ammonia	480-30406-C-1-E		480-97353	480-97203	12/22/2012 18:22	1	TAL BUF	KS
A:350.1	480-30406-C-1-E		480-97353	480-97203	12/26/2012 08:13	1	TAL BUF	KS
A:9045C	480-30406-C-1-A		360-97429		12/18/2012 10:45	1	TAL WFD	GRB
A:9060	480-30406-C-1-C		480-97733		12/28/2012 10:29	1	TAL BUF	KC
A:Moisture	480-30406-A-1		480-96652		12/19/2012 16:02	1	TAL BUF	MD
A:SM 2580B	480-30406-C-1-B		360-97430		12/18/2012 10:45	1	TAL WFD	GRB

Lab ID: **480-30406-1 MS** **Client ID:** **OC-SD-SD-503-XXX**

Sample Date/Time: 12/17/2012 14:30 Received Date/Time: 12/17/2012 18:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3550B	480-30406-B-1-B MS		320-8232	320-7689	12/20/2012 13:47	1	TAL WSC	NK
A:GCMSMS_NDMA	480-30406-B-1-B MS		320-8232	320-7689	01/03/2013 17:27	1	TAL WSC	VMN
P:7471A	480-30406-E-1-B MS		480-96597	480-96554	12/19/2012 09:40	1	TAL BUF	JRK
A:7471A	480-30406-E-1-B MS		480-96597	480-96554	12/19/2012 12:50	1	TAL BUF	JRK

Client: Olin Corporation

Job Number: 480-30406-1

Laboratory Chronicle

Lab ID: **480-30406-1 MSD** **Client ID:** **OC-SD-SD-503-XXX**

Sample Date/Time: 12/17/2012 14:30 Received Date/Time: 12/17/2012 18:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3550B	480-30406-B-1-C MSD		320-8232	320-7689	12/20/2012 13:47	1	TAL WSC	NK
A:GCMSMS_NDMA	480-30406-B-1-C MSD		320-8232	320-7689	01/03/2013 18:30	1	TAL WSC	VMN
P:7471A	480-30406-E-1-C MSD		480-96597	480-96554	12/19/2012 09:40	1	TAL BUF	JRK
A:7471A	480-30406-E-1-C MSD		480-96597	480-96554	12/19/2012 12:51	1	TAL BUF	JRK

Lab ID: **480-30406-1 SD** **Client ID:** **OC-SD-SD-503-XXX**

Sample Date/Time: 12/17/2012 14:30 Received Date/Time: 12/17/2012 18:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-30406-E-1-A SD ^5		480-96597	480-96554	12/19/2012 09:40	5	TAL BUF	JRK
A:7471A	480-30406-E-1-A SD ^5		480-96597	480-96554	12/19/2012 12:48	5	TAL BUF	JRK

Client: Olin Corporation

Job Number: 480-30406-1

Laboratory Chronicle

Lab ID: **480-30406-2** **Client ID:** **OC-SD-SD-504-XXX**

Sample Date/Time: 12/17/2012 15:00 Received Date/Time: 12/17/2012 18:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	480-30406-H-2-A		480-96559	480-96598	12/19/2012 13:30	1	TAL BUF	JMB
A:8260C	480-30406-H-2-A		480-96559	480-96598	12/19/2012 18:20	1	TAL BUF	JMB
P:3546	480-30406-D-2-A		480-97046	480-96561	12/19/2012 09:46	10	TAL BUF	DE
A:8270D	480-30406-D-2-A		480-97046	480-96561	12/21/2012 12:45	10	TAL BUF	RMM
P:3060A	480-30406-A-2-A		440-76481	440-75585	12/27/2012 09:36	10	TAL IRV	QPD
A:7199	480-30406-A-2-A		440-76481	440-75585	01/01/2013 20:38	10	TAL IRV	RW
P:3550B	480-30406-B-2-A		320-8232	320-7689	12/20/2012 13:47	1	TAL WSC	NK
A:GCMSMS_NDMA	480-30406-B-2-A		320-8232	320-7689	01/03/2013 19:33	1	TAL WSC	VMN
P:3050B	480-30406-E-2-B		480-96762	480-96586	12/19/2012 12:00	1	TAL BUF	SS
A:6010	480-30406-E-2-B		480-96762	480-96586	12/19/2012 21:38	1	TAL BUF	AH
P:3050B	480-30406-E-2-B		480-96876	480-96586	12/19/2012 12:00	1	TAL BUF	SS
A:6010	480-30406-E-2-B		480-96876	480-96586	12/20/2012 12:33	1	TAL BUF	AH
P:3050B	480-30406-C-2-G		480-104944	480-104616	02/25/2013 09:10	1	TAL BUF	JM
A:6010	480-30406-C-2-G		480-104944	480-104616	02/26/2013 11:51	1	TAL BUF	LH
P:7471A	480-30406-E-2-A		480-96597	480-96554	12/19/2012 09:40	1	TAL BUF	JRK
A:7471A	480-30406-E-2-A		480-96597	480-96554	12/19/2012 12:53	1	TAL BUF	JRK
A:300.0	480-30406-A-2-B		480-97680		12/28/2012 12:46	1	TAL BUF	KAC
A:300.0	480-30406-A-2-B		480-97680		12/28/2012 14:59	2	TAL BUF	KAC
P:Distill/Ammonia	480-30406-C-2-E		480-97353	480-97203	12/22/2012 18:22	1	TAL BUF	KS
A:350.1	480-30406-C-2-E		480-97353	480-97203	12/26/2012 08:14	1	TAL BUF	KS
A:9045C	480-30406-C-2-A		360-97429		12/18/2012 10:49	1	TAL WFD	GRB
A:9060	480-30406-C-2-C		480-97733		12/28/2012 10:59	1	TAL BUF	KC
A:Moisture	480-30406-A-2		480-96652		12/19/2012 16:02	1	TAL BUF	MD
A:SM 2580B	480-30406-C-2-B		360-97430		12/18/2012 10:49	1	TAL WFD	GRB

Client: Olin Corporation

Job Number: 480-30406-1

Laboratory Chronicle

Lab ID: **480-30406-3** **Client ID:** **OC-SD-SD-501-XXX**

Sample Date/Time: 12/17/2012 12:15 Received Date/Time: 12/17/2012 18:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	480-30406-I-3-A		480-96559	480-96598	12/19/2012 13:30	1	TAL BUF	JMB
A:8260C	480-30406-I-3-A		480-96559	480-96598	12/19/2012 18:46	1	TAL BUF	JMB
P:3546	480-30406-C-3-A		480-97046	480-96561	12/19/2012 09:46	10	TAL BUF	DE
A:8270D	480-30406-C-3-A		480-97046	480-96561	12/21/2012 13:11	10	TAL BUF	RMM
P:3060A	480-30406-A-3-A		440-76481	440-75585	12/27/2012 09:36	10	TAL IRV	QPD
A:7199	480-30406-A-3-A		440-76481	440-75585	01/01/2013 20:51	10	TAL IRV	RW
P:3550B	480-30406-B-3-A		320-8232	320-7689	12/20/2012 13:47	1	TAL WSC	NK
A:GCMSMS_NDMA	480-30406-B-3-A		320-8232	320-7689	01/03/2013 20:36	1	TAL WSC	VMN
P:3050B	480-30406-D-3-B		480-96762	480-96586	12/19/2012 12:00	1	TAL BUF	SS
A:6010	480-30406-D-3-B		480-96762	480-96586	12/19/2012 21:40	1	TAL BUF	AH
P:3050B	480-30406-D-3-B		480-96876	480-96586	12/19/2012 12:00	1	TAL BUF	SS
A:6010	480-30406-D-3-B		480-96876	480-96586	12/20/2012 12:35	1	TAL BUF	AH
P:3050B	480-30406-E-3-E		480-104944	480-104616	02/25/2013 09:10	1	TAL BUF	JM
A:6010	480-30406-E-3-E		480-104944	480-104616	02/26/2013 11:53	1	TAL BUF	LH
P:7471A	480-30406-D-3-A		480-96597	480-96554	12/19/2012 09:40	1	TAL BUF	JRK
A:7471A	480-30406-D-3-A		480-96597	480-96554	12/19/2012 12:55	1	TAL BUF	JRK
A:300.0	480-30406-A-3-B		480-97680		12/28/2012 12:56	1	TAL BUF	KAC
P:Distill/Ammonia	480-30406-E-3-C		480-97353	480-97203	12/22/2012 18:22	1	TAL BUF	KS
A:350.1	480-30406-E-3-C		480-97353	480-97203	12/26/2012 08:14	1	TAL BUF	KS
A:9045C	480-30406-C-3-B		360-97429		12/18/2012 10:53	1	TAL WFD	GRB
A:9060	480-30406-E-3-A		480-97733		12/28/2012 11:29	1	TAL BUF	KC
A:Moisture	480-30406-A-3		480-96652		12/19/2012 16:02	1	TAL BUF	MD
A:SM 2580B	480-30406-C-3-C		360-97430		12/18/2012 10:53	1	TAL WFD	GRB

Client: Olin Corporation

Job Number: 480-30406-1

Laboratory Chronicle

Lab ID: **480-30406-4** **Client ID:** **OC-SD-SD-502-XXX**

Sample Date/Time: 12/17/2012 12:45 Received Date/Time: 12/17/2012 18:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	480-30406-I-4-A		480-96559	480-96598	12/19/2012 13:30	1	TAL BUF	JMB
A:8260C	480-30406-I-4-A		480-96559	480-96598	12/19/2012 19:11	1	TAL BUF	JMB
P:3546	480-30406-C-4-A		480-97046	480-96561	12/19/2012 09:46	10	TAL BUF	DE
A:8270D	480-30406-C-4-A		480-97046	480-96561	12/21/2012 13:37	10	TAL BUF	RMM
P:3060A	480-30406-A-4-A		440-76481	440-75585	12/27/2012 09:36	10	TAL IRV	QPD
A:7199	480-30406-A-4-A		440-76481	440-75585	01/01/2013 21:03	10	TAL IRV	RW
P:3550B	480-30406-B-4-A		320-8340	320-7689	12/20/2012 13:47	1	TAL WSC	NK
A:GCMSMS_NDMA	480-30406-B-4-A		320-8340	320-7689	01/07/2013 23:11	1	TAL WSC	VMN
P:3050B	480-30406-D-4-B		480-96762	480-96586	12/19/2012 12:00	1	TAL BUF	SS
A:6010	480-30406-D-4-B		480-96762	480-96586	12/19/2012 21:43	1	TAL BUF	AH
P:3050B	480-30406-D-4-B		480-96876	480-96586	12/19/2012 12:00	1	TAL BUF	SS
A:6010	480-30406-D-4-B		480-96876	480-96586	12/20/2012 12:37	1	TAL BUF	AH
P:3050B	480-30406-E-4-E		480-104944	480-104616	02/25/2013 09:10	1	TAL BUF	JM
A:6010	480-30406-E-4-E		480-104944	480-104616	02/26/2013 11:56	1	TAL BUF	LH
P:7471A	480-30406-D-4-A		480-96597	480-96554	12/19/2012 09:40	1	TAL BUF	JRK
A:7471A	480-30406-D-4-A		480-96597	480-96554	12/19/2012 12:57	1	TAL BUF	JRK
A:300.0	480-30406-A-4-B		480-97680		12/28/2012 13:06	1	TAL BUF	KAC
P:Distill/Ammonia	480-30406-E-4-C		480-97353	480-97203	12/22/2012 18:22	1	TAL BUF	KS
A:350.1	480-30406-E-4-C		480-97353	480-97203	12/26/2012 08:15	1	TAL BUF	KS
A:9045C	480-30406-C-4-B		360-97429		12/18/2012 10:57	1	TAL WFD	GRB
A:9060	480-30406-E-4-A		480-97733		12/28/2012 11:58	1	TAL BUF	KC
A:Moisture	480-30406-A-4		480-96652		12/19/2012 16:02	1	TAL BUF	MD
A:SM 2580B	480-30406-C-4-D		360-97430		12/18/2012 10:57	1	TAL WFD	GRB

Lab ID: **480-30406-4 MS** **Client ID:** **OC-SD-SD-502-XXX**

Sample Date/Time: 12/17/2012 12:45 Received Date/Time: 12/17/2012 18:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	480-30406-D-4-C MS		480-96762	480-96586	12/19/2012 12:00	1	TAL BUF	SS
A:6010	480-30406-D-4-C MS		480-96762	480-96586	12/19/2012 21:50	1	TAL BUF	AH
P:3050B	480-30406-D-4-C MS		480-96876	480-96586	12/19/2012 12:00	1	TAL BUF	SS
A:6010	480-30406-D-4-C MS		480-96876	480-96586	12/20/2012 12:48	1	TAL BUF	AH

Client: Olin Corporation

Job Number: 480-30406-1

Laboratory Chronicle

Lab ID: **480-30406-4 MSD** **Client ID:** **OC-SD-SD-502-XXX**

Sample Date/Time: 12/17/2012 12:45 Received Date/Time: 12/17/2012 18:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	480-30406-D-4-D MSD		480-96762	480-96586	12/19/2012 12:00	1	TAL BUF	SS
A:6010	480-30406-D-4-D MSD		480-96762	480-96586	12/19/2012 21:56	1	TAL BUF	AH
P:3050B	480-30406-D-4-D MSD		480-96876	480-96586	12/19/2012 12:00	1	TAL BUF	SS
A:6010	480-30406-D-4-D MSD		480-96876	480-96586	12/20/2012 12:50	1	TAL BUF	AH

Lab ID: **480-30406-4 DU** **Client ID:** **OC-SD-SD-502-XXX**

Sample Date/Time: 12/17/2012 12:45 Received Date/Time: 12/17/2012 18:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:9045C	480-30406-C-4-C DU		360-97429		12/18/2012 11:01	1	TAL WFD	GRB
A:SM 2580B	480-30406-C-4-E DU		360-97430		12/18/2012 11:01	1	TAL WFD	GRB

Lab ID: **480-30406-4 SD** **Client ID:** **OC-SD-SD-502-XXX**

Sample Date/Time: 12/17/2012 12:45 Received Date/Time: 12/17/2012 18:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	480-30406-D-4-B SD ^5		480-96762	480-96586	12/19/2012 12:00	5	TAL BUF	SS
A:6010	480-30406-D-4-B SD ^5		480-96762	480-96586	12/19/2012 21:45	5	TAL BUF	AH
P:3050B	480-30406-D-4-B PDS		480-96762	480-96586	12/19/2012 12:00	1	TAL BUF	SS
A:6010	480-30406-D-4-B PDS		480-96762	480-96586	12/19/2012 21:47	1	TAL BUF	AH
P:3050B	480-30406-D-4-B SD ^5		480-96876	480-96586	12/19/2012 12:00	5	TAL BUF	SS
A:6010	480-30406-D-4-B SD ^5		480-96876	480-96586	12/20/2012 12:39	5	TAL BUF	AH
P:3050B	480-30406-D-4-B PDS		480-96876	480-96586	12/19/2012 12:00	1	TAL BUF	SS
A:6010	480-30406-D-4-B PDS		480-96876	480-96586	12/20/2012 12:46	1	TAL BUF	AH

Client: Olin Corporation

Job Number: 480-30406-1

Laboratory Chronicle

Lab ID: **MB** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:8260C	MB 480-96559/7		480-96559		12/19/2012 15:47	1	TAL BUF	JMB
P:3546	MB 480-96561/1-A		480-96803	480-96561	12/19/2012 09:30	1	TAL BUF	DE
A:8270D	MB 480-96561/1-A		480-96803	480-96561	12/20/2012 15:17	1	TAL BUF	RMM
P:3060A	MB 440-75585/1-A		440-76371	440-75585	12/27/2012 09:26	10	TAL IRV	QPD
A:7199	MB 440-75585/1-A		440-76371	440-75585	12/31/2012 13:27	10	TAL IRV	SP
P:3550B	MB 320-7689/1-A		320-8232	320-7689	12/20/2012 13:47	1	TAL WSC	NK
A:GCMSMS_NDMA	MB 320-7689/1-A		320-8232	320-7689	01/03/2013 14:18	1	TAL WSC	VMN
P:3050B	MB 480-96586/1-A		480-96762	480-96586	12/19/2012 12:00	1	TAL BUF	SS
A:6010	MB 480-96586/1-A		480-96762	480-96586	12/19/2012 21:04	1	TAL BUF	AH
P:3050B	MB 480-104616/1-A		480-104944	480-104616	02/25/2013 09:10	1	TAL BUF	JM
A:6010	MB 480-104616/1-A		480-104944	480-104616	02/26/2013 11:42	1	TAL BUF	LH
P:7471A	MB 480-96554/1-A		480-96597	480-96554	12/19/2012 09:40	1	TAL BUF	JRK
A:7471A	MB 480-96554/1-A		480-96597	480-96554	12/19/2012 12:21	1	TAL BUF	JRK
A:300.0	MB 480-97670/2-A		480-97680		12/28/2012 12:26	1	TAL BUF	KAC
P:Distill/Ammonia	MB 480-97203/2-A		480-97353	480-97203	12/22/2012 18:22	1	TAL BUF	KS
A:350.1	MB 480-97203/2-A		480-97353	480-97203	12/26/2012 07:59	1	TAL BUF	KS
A:350.1	MB 480-96922/3-A		480-97353		12/26/2012 08:48	1	TAL BUF	KS
A:9060	MB 480-97733/27		480-97733		12/28/2012 04:09	1	TAL BUF	KC
A:9060	MB 480-96922/1-A		480-97733		12/28/2012 12:28	1	TAL BUF	KC

Lab ID: **LCS** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:8260C	LCS 480-96559/5		480-96559		12/19/2012 14:56	1	TAL BUF	JMB
P:3546	LCS 480-96561/2-A		480-96803	480-96561	12/19/2012 09:30	1	TAL BUF	DE
A:8270D	LCS 480-96561/2-A		480-96803	480-96561	12/20/2012 15:42	1	TAL BUF	RMM
P:3060A	LCS 440-75585/2-A		440-76371	440-75585	12/27/2012 09:26	10	TAL IRV	QPD
A:7199	LCS 440-75585/2-A		440-76371	440-75585	12/31/2012 13:39	10	TAL IRV	SP
P:3550B	LCS 320-7689/2-A		320-8232	320-7689	12/20/2012 13:47	1	TAL WSC	NK
A:GCMSMS_NDMA	LCS 320-7689/2-A		320-8232	320-7689	01/03/2013 15:21	1	TAL WSC	VMN
A:300.0	LCS 480-97670/1-A		480-97680		12/28/2012 12:15	1	TAL BUF	KAC
P:Distill/Ammonia	LCS 480-97203/1-A		480-97353	480-97203	12/22/2012 18:22	1	TAL BUF	KS
A:350.1	LCS 480-97203/1-A		480-97353	480-97203	12/26/2012 07:58	1	TAL BUF	KS
A:9045C	LCS 360-97427/1-A		360-97429		12/18/2012 10:44	1	TAL WFD	GRB
A:9060	LCS 480-97733/28		480-97733		12/28/2012 04:38	1	TAL BUF	KC
A:SM 2580B	LCS 360-97428/1-A		360-97430		12/18/2012 10:38	1	TAL WFD	GRB

Client: Olin Corporation

Job Number: 480-30406-1

Laboratory Chronicle

Lab ID: **LCSD** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:8260C	LCSD 480-96559/6		480-96559		12/19/2012 15:21	1	TAL BUF	JMB
P:3546	LCSD 480-96561/3-A		480-96803	480-96561	12/19/2012 09:30	1	TAL BUF	DE
A:8270D	LCSD 480-96561/3-A		480-96803	480-96561	12/20/2012 16:08	1	TAL BUF	RMM

Lab ID: **LCSSRM** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	LCSSRM 480-96586/2-A		480-96762	480-96586	12/19/2012 12:00	1	TAL BUF	SS
A:6010	LCSSRM 480-96586/2-A		480-96762	480-96586	12/19/2012 21:06	1	TAL BUF	AH
P:3050B	LCSSRM 480-104616/2-A		480-104944	480-104616	02/25/2013 09:10	1	TAL BUF	JM
A:6010	LCSSRM 480-104616/2-A		480-104944	480-104616	02/26/2013 11:44	1	TAL BUF	LH
P:7471A	LCSSRM 480-96554/2-A		480-96597	480-96554	12/19/2012 09:40	1	TAL BUF	JRK
A:7471A	LCSSRM 480-96554/2-A		480-96597	480-96554	12/19/2012 12:23	1	TAL BUF	JRK

Lab ID: **LCDSRM** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	LCDSRM 480-96586/3-A		480-96762	480-96586	12/19/2012 12:00	1	TAL BUF	SS
A:6010	LCDSRM 480-96586/3-A		480-96762	480-96586	12/19/2012 21:09	1	TAL BUF	AH
P:3050B	LCDSRM 480-104616/3-A		480-104944	480-104616	02/25/2013 09:10	1	TAL BUF	JM
A:6010	LCDSRM 480-104616/3-A		480-104944	480-104616	02/26/2013 11:46	1	TAL BUF	LH
P:7471A	LCDSRM 480-96554/3-A		480-96597	480-96554	12/19/2012 09:40	1	TAL BUF	JRK
A:7471A	LCDSRM 480-96554/3-A		480-96597	480-96554	12/19/2012 12:24	1	TAL BUF	JRK

Lab References:

TAL BUF = TestAmerica Buffalo

TAL IRV = TestAmerica Irvine

TAL WFD = TestAmerica Westfield

TAL WSC = TestAmerica Sacramento

Certification Summary

Client: Olin Corporation
Project/Site: Olin Chemical Wilmington MA Superfund

TestAmerica Job ID: 480-30406-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas DEQ	State Program	6	88-0686
TestAmerica Buffalo	California	NELAP	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAP	4	E87672
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Georgia	State Program	4	N/A
TestAmerica Buffalo	Illinois	NELAP	5	200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAP	7	E-10187
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Kentucky (UST)	State Program	4	30
TestAmerica Buffalo	Louisiana	NELAP	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY00044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAP	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAP	1	2337
TestAmerica Buffalo	New Hampshire	NELAP	1	2973
TestAmerica Buffalo	New Jersey	NELAP	2	NY455
TestAmerica Buffalo	New York	NELAP	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAP	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAP	3	68-00281
TestAmerica Buffalo	Rhode Island	State Program	1	LAO00328
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAP	6	T104704412-11-2
TestAmerica Buffalo	USDA	Federal		P330-11-00386
TestAmerica Buffalo	Virginia	NELAP	3	460185
TestAmerica Buffalo	Washington	State Program	10	C784
TestAmerica Buffalo	West Virginia DEP	State Program	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390
TestAmerica Irvine	Alaska	State Program	10	CA01531
TestAmerica Irvine	Arizona	State Program	9	AZ0671
TestAmerica Irvine	California	LA Cty Sanitation Districts	9	10256
TestAmerica Irvine	California	NELAP	9	1108CA
TestAmerica Irvine	California	State Program	9	2706
TestAmerica Irvine	Guam	State Program	9	Cert. No. 12.002r
TestAmerica Irvine	Hawaii	State Program	9	N/A
TestAmerica Irvine	Nevada	State Program	9	CA015312007A
TestAmerica Irvine	New Mexico	State Program	6	N/A
TestAmerica Irvine	Northern Mariana Islands	State Program	9	MP0002
TestAmerica Irvine	Oregon	NELAP	10	4005
TestAmerica Irvine	USDA	Federal		P330-09-00080
TestAmerica Irvine	USEPA UCMR	Federal	1	CA01531
TestAmerica Sacramento	A2LA	DoD ELAP		2928-01
TestAmerica Sacramento	Alaska (UST)	State Program	10	UST-055
TestAmerica Sacramento	Arizona	State Program	9	AZ0708
TestAmerica Sacramento	Arkansas DEQ	State Program	6	88-0691
TestAmerica Sacramento	California	NELAP	9	1119CA
TestAmerica Sacramento	Colorado	State Program	8	N/A

Certification Summary

Client: Olin Corporation
Project/Site: Olin Chemical Wilmington MA Superfund

TestAmerica Job ID: 480-30406-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Sacramento	Connecticut	State Program	1	PH-0691
TestAmerica Sacramento	Florida	NELAP	4	E87570
TestAmerica Sacramento	Guam	State Program	9	N/A
TestAmerica Sacramento	Hawaii	State Program	9	N/A
TestAmerica Sacramento	Illinois	NELAP	5	200060
TestAmerica Sacramento	Kansas	NELAP	7	E-10375
TestAmerica Sacramento	Louisiana	NELAP	6	30612
TestAmerica Sacramento	Michigan	State Program	5	9947
TestAmerica Sacramento	Nevada	State Program	9	CA44
TestAmerica Sacramento	New Jersey	NELAP	2	CA005
TestAmerica Sacramento	New York	NELAP	2	11666
TestAmerica Sacramento	Northern Mariana Islands	State Program	9	MP0007
TestAmerica Sacramento	Oregon	NELAP	10	CA200005
TestAmerica Sacramento	Pennsylvania	NELAP	3	68-01272
TestAmerica Sacramento	South Carolina	State Program	4	87014
TestAmerica Sacramento	Texas	NELAP	6	T104704399-08-TX
TestAmerica Sacramento	US Fish & Wildlife	Federal		LE148388-0
TestAmerica Sacramento	USDA	Federal		P330-11-00436
TestAmerica Sacramento	USEPA UCMR	Federal	1	CA00044
TestAmerica Sacramento	Utah	NELAP	8	QUAN1
TestAmerica Sacramento	Washington	State Program	10	C581
TestAmerica Sacramento	West Virginia	State Program	3	9930C
TestAmerica Sacramento	West Virginia DEP	State Program	3	334
TestAmerica Sacramento	Wyoming	State Program	8	8TMS-Q
TestAmerica Westfield	Connecticut	State Program	1	PH-0494
TestAmerica Westfield	Massachusetts	State Program	1	M-MA014
TestAmerica Westfield	New Hampshire	NELAP	1	2539

Accreditation may not be offered or required for all methods and analytes reported in this package Please contact your project manager for the laboratory's current list of certified methods and analytes.

8260MCP

Volatile Organic Compounds (GC/MS)

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): ZB-624 (60) ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DCA #	TOL #	BFB #
OC-SD-SD-503-XXX	480-30406-1	92	91	88
OC-SD-SD-504-XXX	480-30406-2	94	92	89
OC-SD-SD-501-XXX	480-30406-3	94	90	88
OC-SD-SD-502-XXX	480-30406-4	94	92	90
	MB 480-96559/7	81	96	83
	LCS 480-96559/5	84	86	83
	LCSD 480-96559/6	87	87	83

	QC LIMITS
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F4455.D

Lab ID: LCS 480-96559/5 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	47.7	95	70-130	
1,1,1-Trichloroethane	50.0	48.5	97	70-130	
1,1,2,2-Tetrachloroethane	50.0	50.9	102	70-130	
1,1,2-Trichloro-1,2,2-trifluor oethane	100	94.0	94	70-130	
1,1,2-Trichloroethane	50.0	48.1	96	70-130	
1,1-Dichloroethane	50.0	50.2	100	70-130	
1,1-Dichloroethene	50.0	49.0	98	70-130	
1,1-Dichloropropene	50.0	51.1	102	70-130	
1,2,3-Trichlorobenzene	50.0	52.2	104	70-130	
1,2,3-Trichloropropane	50.0	49.3	99	70-130	
1,2,4-Trichlorobenzene	50.0	51.9	104	70-130	
1,2,4-Trimethylbenzene	50.0	51.0	102	70-130	
1,2-Dibromo-3-Chloropropane	50.0	55.5	111	70-130	
1,2-Dichlorobenzene	50.0	47.5	95	70-130	
1,2-Dichloroethane	50.0	46.5	93	70-130	
1,2-Dichloropropane	50.0	48.5	97	70-130	
1,3,5-Trimethylbenzene	50.0	50.7	101	70-130	
1,3-Dichlorobenzene	50.0	48.1	96	70-130	
1,3-Dichloropropane	50.0	46.8	94	70-130	
1,4-Dichlorobenzene	50.0	46.6	93	70-130	
1,4-Dioxane	2000	1720	86	70-130	
2,2-Dichloropropane	50.0	50.7	101	70-130	
2,4,4-Trimethyl-1-pentene	50.0	52.0	104	70-130	
2,4,4-Trimethyl-2-pentene	50.0	54.6	109	70-130	
2-Butanone (MEK)	250	321	128	70-130	
2-Chlorotoluene	50.0	49.5	99	70-130	
2-Hexanone	250	230	92	70-130	
4-Chlorotoluene	50.0	50.3	101	70-130	
4-Isopropyltoluene	50.0	52.7	105	70-130	
4-Methyl-2-pentanone (MIBK)	250	223	89	70-130	
Acetone	250	218 J	87	70-130	
Benzene	50.0	48.1	96	70-130	
Bromobenzene	50.0	47.5	95	70-130	
Bromoform	50.0	47.6	95	70-130	
Bromomethane	50.0	37.2	74	70-130	
Carbon disulfide	50.0	45.3	91	70-130	
Carbon tetrachloride	50.0	49.2	98	70-130	
Chlorobenzene	50.0	46.4	93	70-130	
Chlorobromomethane	50.0	49.0	98	70-130	
Chlorodibromomethane	50.0	46.8	94	70-130	
Chloroethane	50.0	41.9	84	70-130	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F4455.D

Lab ID: LCS 480-96559/5 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloroform	50.0	48.6	97	70-130	
Chloromethane	50.0	43.3	87	70-130	
cis-1,2-Dichloroethene	50.0	48.8	98	70-130	
cis-1,3-Dichloropropene	50.0	50.2	100	70-130	
Cyclohexane	50.0	44.4	89	70-130	
Dibromomethane	50.0	49.1	98	70-130	
Dichlorobromomethane	50.0	47.9	96	70-130	
Dichlorodifluoromethane	100	90.1	90	70-130	
Ethyl ether	50.0	37.3	75	70-130	
Ethylbenzene	50.0	48.6	97	70-130	
Ethylene Dibromide	50.0	48.3	97	70-130	
Hexachlorobutadiene	50.0	54.1	108	70-130	
Isopropyl ether	50.0	42.0	84	70-130	
Isopropylbenzene	50.0	50.5	101	70-130	
Methyl acetate	50.0	46.2 J	92	70-130	
Methyl tert-butyl ether	50.0	46.6	93	70-130	
Methylcyclohexane	50.0	45.2	90	70-130	
Methylene Chloride	50.0	45.9	92	70-130	
m-Xylene & p-Xylene	100	96.7	97	70-130	
Naphthalene	50.0	53.5	107	70-130	
n-Butylbenzene	50.0	53.0	106	70-130	
N-Propylbenzene	50.0	53.5	107	70-130	
o-Xylene	50.0	47.8	96	70-130	
sec-Butylbenzene	50.0	51.4	103	70-130	
Styrene	50.0	49.2	98	70-130	
Tert-amyl methyl ether	50.0	44.1	88	70-130	
Tert-butyl ethyl ether	50.0	41.7	83	70-130	
tert-Butylbenzene	50.0	50.0	100	70-130	
Tetrachloroethene	50.0	49.1	98	70-130	
Tetrahydrofuran	250	237	95	70-130	
Toluene	50.0	47.0	94	70-130	
trans-1,2-Dichloroethene	50.0	49.6	99	70-130	
trans-1,3-Dichloropropene	50.0	48.8	98	70-130	
Trichloroethene	50.0	49.7	99	70-130	
Trichlorofluoromethane	50.0	44.4	89	70-130	
Vinyl chloride	50.0	46.0	92	70-130	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F4456.D

Lab ID: LCSD 480-96559/6 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	46.2	92	3	20	70-130	
1,1,1-Trichloroethane	50.0	44.9	90	8	20	70-130	
1,1,2,2-Tetrachloroethane	50.0	49.8	100	2	20	70-130	
1,1,2-Trichloro-1,2,2-trifluor oethane	100	84.9	85	10	20	70-130	
1,1,2-Trichloroethane	50.0	46.8	94	3	20	70-130	
1,1-Dichloroethane	50.0	47.3	95	6	20	70-130	
1,1-Dichloroethene	50.0	45.2	90	8	20	70-130	
1,1-Dichloropropene	50.0	47.0	94	8	20	70-130	
1,2,3-Trichlorobenzene	50.0	52.3	105	0	20	70-130	
1,2,3-Trichloropropane	50.0	48.3	97	2	20	70-130	
1,2,4-Trichlorobenzene	50.0	51.7	103	0	20	70-130	
1,2,4-Trimethylbenzene	50.0	48.0	96	6	20	70-130	
1,2-Dibromo-3-Chloropropane	50.0	53.4	107	4	20	70-130	
1,2-Dichlorobenzene	50.0	46.2	92	3	20	70-130	
1,2-Dichloroethane	50.0	45.4	91	2	20	70-130	
1,2-Dichloropropane	50.0	46.5	93	4	20	70-130	
1,3,5-Trimethylbenzene	50.0	47.2	94	7	20	70-130	
1,3-Dichlorobenzene	50.0	45.9	92	5	20	70-130	
1,3-Dichloropropane	50.0	45.7	91	2	20	70-130	
1,4-Dichlorobenzene	50.0	44.7	89	4	20	70-130	
1,4-Dioxane	2000	1550	77	10	20	70-130	
2,2-Dichloropropane	50.0	47.5	95	7	20	70-130	
2,4,4-Trimethyl-1-pentene	50.0	48.4	97	7	20	70-130	
2,4,4-Trimethyl-2-pentene	50.0	47.9	96	13	20	70-130	
2-Butanone (MEK)	250	310	124	4	20	70-130	
2-Chlorotoluene	50.0	46.6	93	6	20	70-130	
2-Hexanone	250	224	89	3	20	70-130	
4-Chlorotoluene	50.0	46.7	93	7	20	70-130	
4-Isopropyltoluene	50.0	49.1	98	7	20	70-130	
4-Methyl-2-pentanone (MIBK)	250	215	86	4	20	70-130	
Acetone	250	206 J	82	6	20	70-130	
Benzene	50.0	45.2	90	6	20	70-130	
Bromobenzene	50.0	45.6	91	4	20	70-130	
Bromoform	50.0	47.2	94	1	20	70-130	
Bromomethane	50.0	33.7	67	10	20	70-130	*
Carbon disulfide	50.0	40.5	81	11	20	70-130	
Carbon tetrachloride	50.0	45.5	91	8	20	70-130	
Chlorobenzene	50.0	44.1	88	5	20	70-130	
Chlorobromomethane	50.0	46.4	93	5	20	70-130	
Chlorodibromomethane	50.0	45.6	91	3	20	70-130	
Chloroethane	50.0	37.9	76	10	20	70-130	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F4456.D

Lab ID: LCSD 480-96559/6 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloroform	50.0	46.2	92	5	20	70-130	
Chloromethane	50.0	40.5	81	7	20	70-130	
cis-1,2-Dichloroethene	50.0	45.8	92	6	20	70-130	
cis-1,3-Dichloropropene	50.0	48.7	97	3	20	70-130	
Cyclohexane	50.0	40.4	81	9	20	70-130	
Dibromomethane	50.0	49.3	99	0	20	70-130	
Dichlorobromomethane	50.0	46.4	93	3	20	70-130	
Dichlorodifluoromethane	100	82.2	82	9	20	70-130	
Ethyl ether	50.0	37.1	74	1	20	70-130	
Ethylbenzene	50.0	45.8	92	6	20	70-130	
Ethylene Dibromide	50.0	47.3	95	2	20	70-130	
Hexachlorobutadiene	50.0	50.2	100	7	20	70-130	
Isopropyl ether	50.0	41.0	82	2	20	70-130	
Isopropylbenzene	50.0	46.5	93	8	20	70-130	
Methyl acetate	50.0	43.4 J	87	6	20	70-130	
Methyl tert-butyl ether	50.0	45.7	91	2	20	70-130	
Methylcyclohexane	50.0	41.3	83	9	20	70-130	
Methylene Chloride	50.0	44.1	88	4	20	70-130	
m-Xylene & p-Xylene	100	91.0	91	6	20	70-130	
Naphthalene	50.0	53.4	107	0	20	70-130	
n-Butylbenzene	50.0	49.4	99	7	20	70-130	
N-Propylbenzene	50.0	50.3	101	6	20	70-130	
o-Xylene	50.0	45.9	92	4	20	70-130	
sec-Butylbenzene	50.0	47.5	95	8	20	70-130	
Styrene	50.0	47.6	95	3	20	70-130	
Tert-amyl methyl ether	50.0	43.2	86	2	20	70-130	
Tert-butyl ethyl ether	50.0	40.0	80	4	20	70-130	
tert-Butylbenzene	50.0	46.4	93	8	20	70-130	
Tetrachloroethene	50.0	46.5	93	5	20	70-130	
Tetrahydrofuran	250	226	90	5	20	70-130	
Toluene	50.0	44.3	89	6	20	70-130	
trans-1,2-Dichloroethene	50.0	45.7	91	8	20	70-130	
trans-1,3-Dichloropropene	50.0	48.0	96	2	20	70-130	
Trichloroethene	50.0	47.2	94	5	20	70-130	
Trichlorofluoromethane	50.0	40.1	80	10	20	70-130	
Vinyl chloride	50.0	41.8	84	9	20	70-130	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Lab File ID: F4457.D Lab Sample ID: MB 480-96559/7

Matrix: Solid Heated Purge:(Y/N) N

Instrument ID: HP5973F Date Analyzed: 12/19/2012 15:47

GC Column: ZB-624 (60) ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-96559/5	F4455.D	12/19/2012 14:56
	LCSD 480-96559/6	F4456.D	12/19/2012 15:21
OC-SD-SD-503-XXX	480-30406-1	F4461.D	12/19/2012 17:54
OC-SD-SD-504-XXX	480-30406-2	F4462.D	12/19/2012 18:20
OC-SD-SD-501-XXX	480-30406-3	F4463.D	12/19/2012 18:46
OC-SD-SD-502-XXX	480-30406-4	F4464.D	12/19/2012 19:11

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Lab File ID: F4221.D BFB Injection Date: 12/11/2012

Instrument ID: HP5973F BFB Injection Time: 15:25

Analysis Batch No.: 95189

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.0	
75	30.0 - 60.0 % of mass 95	42.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	87.0	
175	5.0 - 9.0 % of mass 174	6.1	(7.0)1
176	95.0 - 101.0 % of mass 174	86.4	(99.2)1
177	5.0 - 9.0 % of mass 176	5.5	(6.4)2

1-Value is % mass 174 2-Value is % mass 176

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
	STD8 480-95189/10	F4229.D	12/11/2012	18:50
	STD9 480-95189/11	F4230.D	12/11/2012	19:15
	STD11 480-95189/13	F4232.D	12/11/2012	20:07
	STD12 480-95189/14	F4233.D	12/11/2012	20:32
	STD13 480-95189/15	F4234.D	12/11/2012	20:57
	STD14 480-95189/16	F4235.D	12/11/2012	21:23
	STD10 480-95189/20	F4239.D	12/11/2012	23:36

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Lab File ID: F4389.D BFB Injection Date: 12/17/2012

Instrument ID: HP5973F BFB Injection Time: 11:45

Analysis Batch No.: 96157

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.4	
75	30.0 - 60.0 % of mass 95	43.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.1	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	94.0	
175	5.0 - 9.0 % of mass 174	7.4	(7.8)1
176	95.0 - 101.0 % of mass 174	91.1	(97.0)1
177	5.0 - 9.0 % of mass 176	6.7	(7.4)2

1-Value is % mass 174 2-Value is % mass 176

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
	STD1 480-96157/3	F4390.D	12/17/2012	12:14
	STD2 480-96157/4	F4391.D	12/17/2012	12:40
	STD3 480-96157/5	F4392.D	12/17/2012	13:05
	STD4 480-96157/6	F4393.D	12/17/2012	13:31
	STD5 480-96157/7	F4394.D	12/17/2012	13:56
	STD6 480-96157/8	F4395.D	12/17/2012	14:22
	STD7 480-96157/12	F4396.D	12/17/2012	14:47

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Lab File ID: F4451.D BFB Injection Date: 12/19/2012

Instrument ID: HP5973F BFB Injection Time: 11:00

Analysis Batch No.: 96559

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.5	
75	30.0 - 60.0 % of mass 95	41.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	89.8	
175	5.0 - 9.0 % of mass 174	6.5	(7.2)1
176	95.0 - 101.0 % of mass 174	88.8	(98.9)1
177	5.0 - 9.0 % of mass 176	5.8	(6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-96559/3	F4453.D	12/19/2012	11:53
	CCV 480-96559/4	F4454.D	12/19/2012	12:42
	LCS 480-96559/5	F4455.D	12/19/2012	14:56
	LCSD 480-96559/6	F4456.D	12/19/2012	15:21
	MB 480-96559/7	F4457.D	12/19/2012	15:47
OC-SD-SD-503-XXX	480-30406-1	F4461.D	12/19/2012	17:54
OC-SD-SD-504-XXX	480-30406-2	F4462.D	12/19/2012	18:20
OC-SD-SD-501-XXX	480-30406-3	F4463.D	12/19/2012	18:46
OC-SD-SD-502-XXX	480-30406-4	F4464.D	12/19/2012	19:11

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

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Sample No.: CCVIS 480-96559/3 Date Analyzed: 12/19/2012 11:53

Instrument ID: HP5973F GC Column: ZB-624 (60) ID: 0.25(mm)

Lab File ID (Standard): F4453.D Heated Purge: (Y/N) N

Calibration ID: 11625

		DFB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		280215	5.61	121672	8.38	132638	10.70
UPPER LIMIT		560430	6.11	243344	8.88	265276	11.20
LOWER LIMIT		140108	5.11	60836	7.88	66319	10.20
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-96559/4		267419	5.61	115610	8.38	124406	10.70
LCS 480-96559/5		260887	5.61	115303	8.38	123550	10.70
LCSD 480-96559/6		289227	5.61	127807	8.38	138056	10.70
MB 480-96559/7		200022	5.61	82914	8.38	85090	10.70
480-30406-1	OC-SD-SD-503-XXX	267349	5.61	117163	8.38	126969	10.70
480-30406-2	OC-SD-SD-504-XXX	241626	5.61	104458	8.38	114628	10.70
480-30406-3	OC-SD-SD-501-XXX	267592	5.61	117283	8.38	128799	10.70
480-30406-4	OC-SD-SD-502-XXX	260380	5.61	112258	8.38	125080	10.70

DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

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 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-30406-1

SDG No.:

Client Sample ID: OC-SD-SD-503-XXX | Lab Sample ID: 480-30406-1

Matrix: Solid | Lab File ID: F4461.D

Analysis Method: 8260C | Date Collected: 12/17/2012 14:30

Sample wt/vol: 5.75(g) | Date Analyzed: 12/19/2012 17:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: 36.1 | Level: (low/med) Low

Analysis Batch No.: 96559 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		3.4	0.68
71-55-6	1,1,1-Trichloroethane	ND		3.4	0.49
79-34-5	1,1,2,2-Tetrachloroethane	ND		3.4	1.1
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.4	1.6
79-00-5	1,1,2-Trichloroethane	ND		3.4	0.88
75-34-3	1,1-Dichloroethane	ND		3.4	0.83
75-35-4	1,1-Dichloroethene	ND		3.4	0.83
563-58-6	1,1-Dichloropropene	ND		3.4	0.97
87-61-6	1,2,3-Trichlorobenzene	ND		3.4	0.72
96-18-4	1,2,3-Trichloropropane	ND		3.4	0.69
120-82-1	1,2,4-Trichlorobenzene	ND		3.4	0.41
95-63-6	1,2,4-Trimethylbenzene	ND		3.4	1.3
96-12-8	1,2-Dibromo-3-Chloropropane	ND		34	3.4
95-50-1	1,2-Dichlorobenzene	ND		3.4	0.53
107-06-2	1,2-Dichloroethane	ND		3.4	0.34
78-87-5	1,2-Dichloropropane	ND		3.4	3.4
108-67-8	1,3,5-Trimethylbenzene	ND		3.4	0.44
541-73-1	1,3-Dichlorobenzene	ND		3.4	0.35
142-28-9	1,3-Dichloropropane	ND		3.4	0.41
106-46-7	1,4-Dichlorobenzene	ND		3.4	0.95
123-91-1	1,4-Dioxane	ND		340	33
594-20-7	2,2-Dichloropropane	ND		3.4	1.2
107-39-1	2,4,4-Trimethyl-1-pentene	2.4	J	6.8	0.59
107-40-4	2,4,4-Trimethyl-2-pentene	1.4	J	6.8	0.72
78-93-3	2-Butanone (MEK)	35		34	2.5
95-49-8	2-Chlorotoluene	ND		3.4	0.45
591-78-6	2-Hexanone	ND		34	3.4
106-43-4	4-Chlorotoluene	ND		3.4	0.80
99-87-6	4-Isopropyltoluene	ND		3.4	0.55
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		34	2.2
67-64-1	Acetone	150	J	340	5.7
71-43-2	Benzene	ND		3.4	0.33
108-86-1	Bromobenzene	ND		3.4	1.2
75-25-2	Bromoform	ND		3.4	3.4
74-83-9	Bromomethane	ND	*	6.8	0.61

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-30406-1

SDG No.:

Client Sample ID: OC-SD-SD-503-XXX | Lab Sample ID: 480-30406-1

Matrix: Solid | Lab File ID: F4461.D

Analysis Method: 8260C | Date Collected: 12/17/2012 14:30

Sample wt/vol: 5.75(g) | Date Analyzed: 12/19/2012 17:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: 36.1 | Level: (low/med) Low

Analysis Batch No.: 96559 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-15-0	Carbon disulfide	ND		3.4	3.4
56-23-5	Carbon tetrachloride	ND		3.4	0.66
108-90-7	Chlorobenzene	ND		3.4	0.90
74-97-5	Chlorobromomethane	ND		3.4	0.49
124-48-1	Chlorodibromomethane	ND		3.4	0.87
75-00-3	Chloroethane	ND		6.8	1.5
67-66-3	Chloroform	ND		3.4	0.42
74-87-3	Chloromethane	ND		6.8	0.41
156-59-2	cis-1,2-Dichloroethene	ND		3.4	0.87
10061-01-5	cis-1,3-Dichloropropene	ND		3.4	0.98
110-82-7	Cyclohexane	ND		34	0.95
74-95-3	Dibromomethane	ND		3.4	0.70
75-27-4	Dichlorobromomethane	ND		3.4	0.91
75-71-8	Dichlorodifluoromethane	ND		6.8	0.56
60-29-7	Ethyl ether	ND		3.4	2.9
100-41-4	Ethylbenzene	ND		3.4	0.47
106-93-4	Ethylene Dibromide	ND		3.4	0.87
87-68-3	Hexachlorobutadiene	ND		3.4	0.80
108-20-3	Isopropyl ether	ND		3.4	3.4
98-82-8	Isopropylbenzene	ND		3.4	1.0
79-20-9	Methyl acetate	ND		68	1.3
1634-04-4	Methyl tert-butyl ether	ND		3.4	0.67
108-87-2	Methylcyclohexane	ND		3.4	1.0
75-09-2	Methylene Chloride	ND		3.4	3.1
179601-23-1	m-Xylene & p-Xylene	ND		6.8	1.1
91-20-3	Naphthalene	ND		34	0.91
104-51-8	n-Butylbenzene	ND		3.4	0.59
103-65-1	N-Propylbenzene	ND		3.4	0.54
95-47-6	o-Xylene	ND		3.4	0.89
135-98-8	sec-Butylbenzene	ND		3.4	0.59
100-42-5	Styrene	ND		3.4	0.34
994-05-8	Tert-amyl methyl ether	ND		3.4	1.7
637-92-3	Tert-butyl ethyl ether	ND		3.4	3.0
98-06-6	tert-Butylbenzene	ND		3.4	0.71
127-18-4	Tetrachloroethene	ND		3.4	0.91
109-99-9	Tetrahydrofuran	ND		68	6.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-30406-1

SDG No.:

Client Sample ID: OC-SD-SD-503-XXX | Lab Sample ID: 480-30406-1

Matrix: Solid | Lab File ID: F4461.D

Analysis Method: 8260C | Date Collected: 12/17/2012 14:30

Sample wt/vol: 5.75(g) | Date Analyzed: 12/19/2012 17:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: 36.1 | Level: (low/med) Low

Analysis Batch No.: 96559 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		3.4	0.51
156-60-5	trans-1,2-Dichloroethene	ND		3.4	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		3.4	3.0
79-01-6	Trichloroethene	ND		3.4	1.5
75-69-4	Trichlorofluoromethane	ND		6.8	0.64
75-01-4	Vinyl chloride	ND		3.4	0.83

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	91		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		70-130
460-00-4	4-Bromofluorobenzene (Surr)	88		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Client Sample ID: OC-SD-SD-503-XXX Lab Sample ID: 480-30406-1

Matrix: Solid Lab File ID: F4461.D

Analysis Method: 8260C Date Collected: 12/17/2012 14:30

Sample wt/vol: 5.75(g) Date Analyzed: 12/19/2012 17:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: 36.1 Level: (low/med) Low

Analysis Batch No.: 96559 Units: ug/Kg

Number TICs Found: 2 TIC Result Total: 129.5

CAS NO.	COMPOUND NAME	RT	RESULT	Q
556-67-2	Cyclotetrasiloxane, octamethyl-	9.54	9.5	T J N
119209-20-0	Decane, 5,6-dipropyl-	9.85	120	T J N

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4461.D		
Lims ID:	480-30406-I-1-A	Client ID:	OC-SD-SD-503-XXX
Inject. Date:	19-Dec-2012 17:54:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	480-30406-I-1-A		
Misc. Info.:	480-0017691-011 =480-0017691-011		
Operator:	JMB	Instrument ID:	HP5973F
Purge Vol:	5.000 mL	ALS Bottle#:	11
Lims Batch ID:	96559	Lims Sample ID:	11
Detector:	MS SCAN		

Method:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F-8260 SOIL.m		
Last Update:	20-Dec-2012 14:27:08	Calib Date:	17-Dec-2012 14:47:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F4396.D		
Limit Group:	MV - 8260MCP_RCP		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK010		

First Level Reviewer: ByrnesJ Date: 20-Dec-2012 14:25:39

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.608	5.608	0.0	92	267349	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	77	117163	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	90	126969	50.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.304	5.304	0.0	100	40424	45.9	
$ 5 Toluene-d8 (Surr)	98	6.934	6.934	0.0	90	307097	45.3	
$ 6 4-Bromofluorobenzene (Surr)	174	9.599	9.599	0.0	92	102423	43.9	
10 Dichlorodifluoromethane	85		2.007					
12 Chloromethane	50		2.159					
13 Vinyl chloride	62		2.274					
14 Bromomethane	94		2.560					
15 Chloroethane	64		2.633					
17 Trichlorofluoromethane	101		2.858					
18 Ethyl ether	59		3.035					
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.236					
22 1,1-Dichloroethene	96		3.260					
23 Acetone	43	3.309	3.309	0.0	96	71339	110.4	
26 Carbon disulfide	76		3.473					
27 Methyl acetate	43		3.528					
30 Methylene Chloride	84		3.649					
32 Methyl tert-butyl ether	73		3.801					
34 trans-1,2-Dichloroethene	96		3.838					
36 Isopropyl ether	45		4.130					
39 1,1-Dichloroethane	63		4.179					
41 Tert-butyl ethyl ether	59		4.416					
43 2-Butanone (MEK)	43	4.623	4.623	0.0	94	27147	26.0	
44 2,2-Dichloropropane	77		4.629					
45 cis-1,2-Dichloroethene	96		4.635					
48 Chlorobromomethane	128		4.842					
49 Tetrahydrofuran	42		4.860					9
50 Chloroform	83		4.878					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
51 1,1,1-Trichloroethane	97		5.024					
52 Cyclohexane	56		5.055					
54 1,1-Dichloropropene	75		5.146					
55 Carbon tetrachloride	117		5.152					
57 Benzene	78		5.335					
56 Tert-amyl methyl ether	73		5.347					
58 1,2-Dichloroethane	62		5.365					
136 2,4,4-Trimethyl-1-pentene	55	5.736	5.742	-0.006	0	3490	1.75	
62 Trichloroethene	95		5.858					
135 2,4,4-Trimethyl-2-pentene	97	5.925	5.918	0.007	0	3391	1.04	
64 Methylcyclohexane	83		5.992					
65 1,2-Dichloropropane	63		6.077					
66 1,4-Dioxane	88		6.186					
67 Dibromomethane	93		6.211					
68 Dichlorobromomethane	83		6.320					
72 cis-1,3-Dichloropropene	75		6.703					
73 4-Methyl-2-pentanone (MIBK)	43		6.801					9
74 Toluene	92		6.995					9
77 trans-1,3-Dichloropropene	75		7.220					
79 1,1,2-Trichloroethane	83		7.415					
81 Tetrachloroethene	166		7.525					
82 1,3-Dichloropropane	76		7.585					
80 2-Hexanone	43		7.592					9
83 Chlorodibromomethane	129		7.829					
84 Ethylene Dibromide	107		7.963					
87 Chlorobenzene	112		8.413					
88 Ethylbenzene	91		8.474					
89 1,1,1,2-Tetrachloroethane	131		8.492					
90 m-Xylene & p-Xylene	106		8.589					9
91 o-Xylene	106		9.021					
92 Styrene	104		9.045					
95 Bromoform	173		9.319					
94 Isopropylbenzene	105		9.386					9
97 1,1,2,2-Tetrachloroethane	83		9.757					9
101 Bromobenzene	156		9.769					
100 1,2,3-Trichloropropane	110		9.812					9
103 2-Chlorotoluene	126		9.928					
102 1,3,5-Trimethylbenzene	105		9.964					9
99 N-Propylbenzene	91		10.031					9
105 4-Chlorotoluene	126		10.031					
106 tert-Butylbenzene	134		10.280					
107 1,2,4-Trimethylbenzene	105	10.329	10.329	0.0	1	3318	0.4533	
109 sec-Butylbenzene	105		10.481					9
110 4-Isopropyltoluene	119		10.603					9
111 1,3-Dichlorobenzene	146		10.645					
113 1,4-Dichlorobenzene	146		10.725					
115 n-Butylbenzene	91		10.974					9
116 1,2-Dichlorobenzene	146		11.065					
117 1,2-Dibromo-3-Chloropropane	75		11.741					
119 1,2,4-Trichlorobenzene	180		12.385					
120 Hexachlorobutadiene	225		12.483					
121 Naphthalene	128		12.623					9

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
122 1,2,3-Trichlorobenzene	180		12.842					

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

TestAmerica Buffalo
Tentatively Identified Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4461.D		
Lims ID:	480-30406-I-1-A	Client ID:	OC-SD-SD-503-XXX
Inject. Date:	19-Dec-2012 17:54:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	480-30406-I-1-A		
Misc. Info.:	480-0017691-011 =480-0017691-011		
Operator:	JMB	Instrument ID:	HP5973F
Purge Vol:	5.000 mL	ALS Bottle#:	11
Lims Batch ID:	96559	Lims Sample ID:	11
Detector:	MS SCAN		
Method:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F-8260 SOIL.m		
Last Update:	20-Dec-2012 14:27:08	Calib Date:	17-Dec-2012 14:47:30
Tic RT Window:	1.500 -0.000	Response:	area
Quant By:	Nearest ISTD	Quant LOD:	10.00000
MS Library:	\\Bufchrom\ChromData\Database\NIST98.L		
Min. Match:	0		
Process Host:	XAWRK010		

First Level Reviewer: ByrnesJ Date: 20-Dec-2012 14:25:39

Tentative Identified Compound Results

RT	Response	Amount ug/kg	Quant Cpnd	Qual	Lib Entry	Flags
556-67-2 Cyclotetrasiloxane, octamethyl-						
9.538	91487	7.01	2	90	128142	
119209-20-0 Decane, 5,6-dipropyl-						
9.848	1234117	85.5	3	72	17110	

Quantitation Compounds

Compound	RT	Response	Amount ug/kg
* 2 Chlorobenzene-d5	8.382	652654	50.0
* 3 1,4-Dichlorobenzene-d4	10.700	721835	50.0

QC Flag Legend

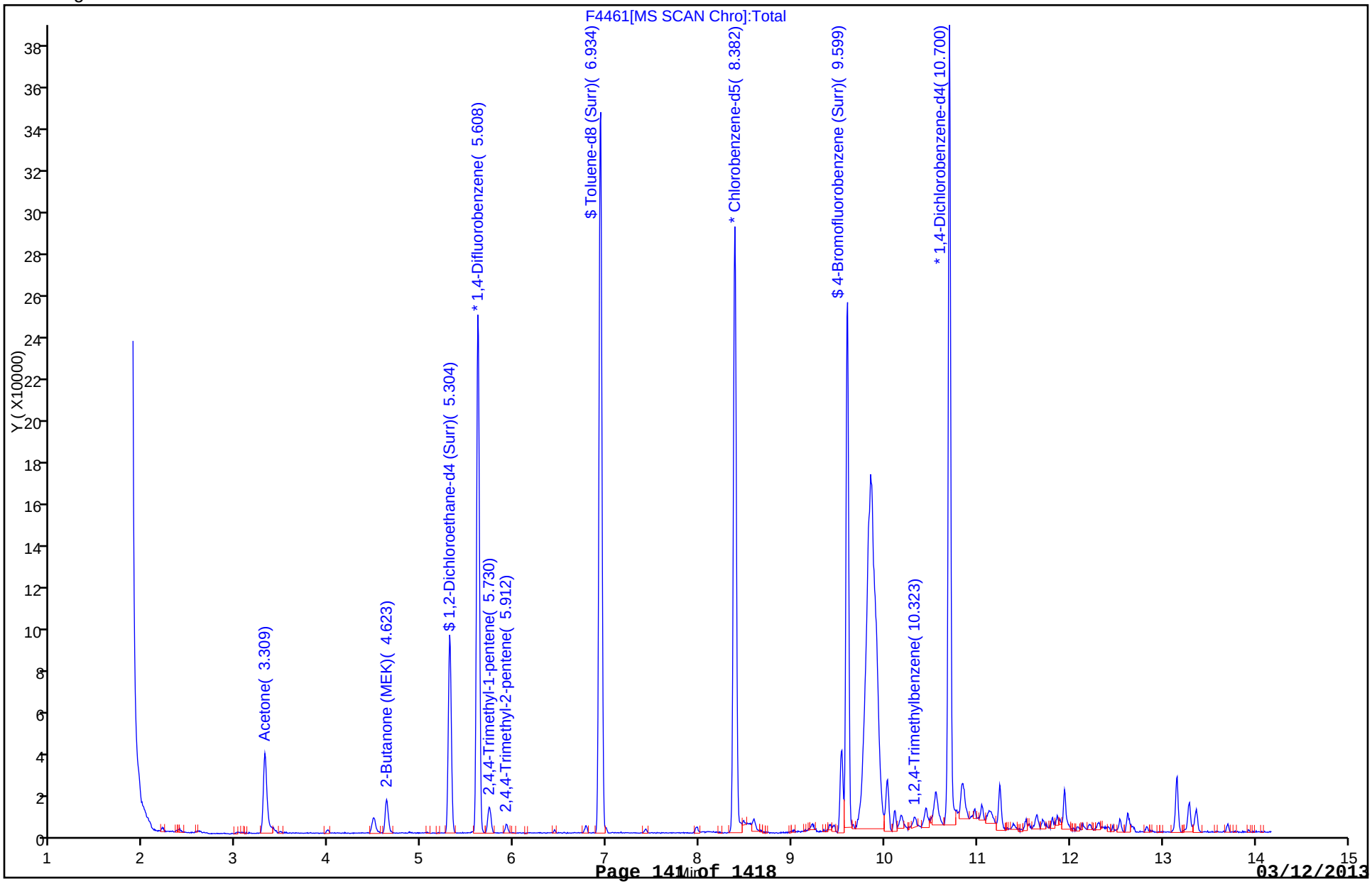
Processing Flags

Report Date: 20-Dec-2012 14:27:11 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4461.D		
Injection Date:	19-Dec-2012 17:54:30	Limit Group:	MV - 8260MCP_RCP
Client ID:	OC-SD-SD-503-XXX	Instrument ID:	HP5973F
Lims Batch ID:	96559	Lims Sample ID:	11
Operator ID:	JMB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:

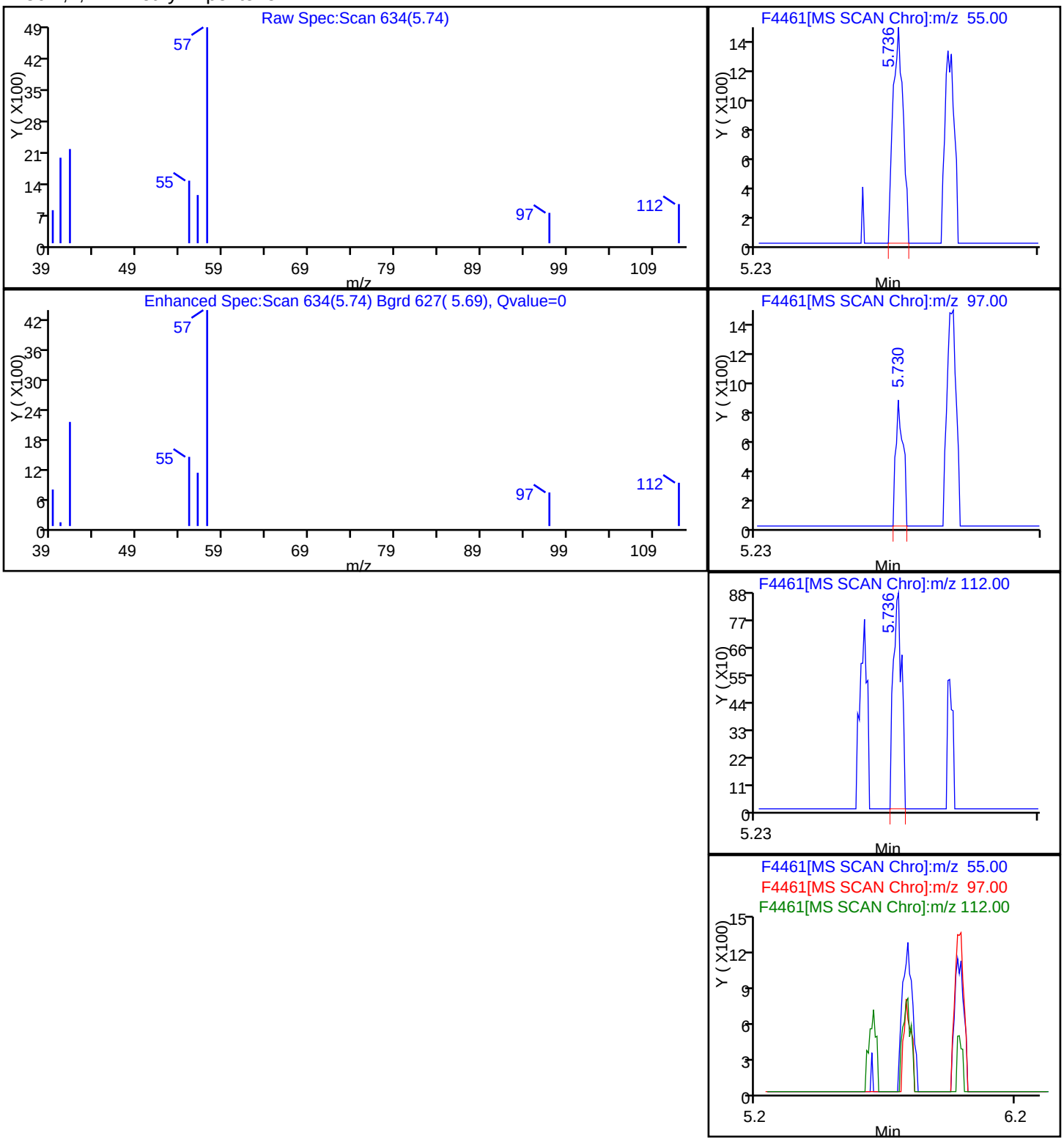


Report Date: 20-Dec-2012 14:27:11 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4461.D		
Injection Date:	19-Dec-2012 17:54:30	Limit Group:	MV - 8260MCP_RCP
Client ID:	OC-SD-SD-503-XXX	Instrument ID:	HP5973F
Lims Batch ID:	96559	Lims Sample ID:	11
Operator ID:	JMB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

136 2,4,4-Trimethyl-1-pentene



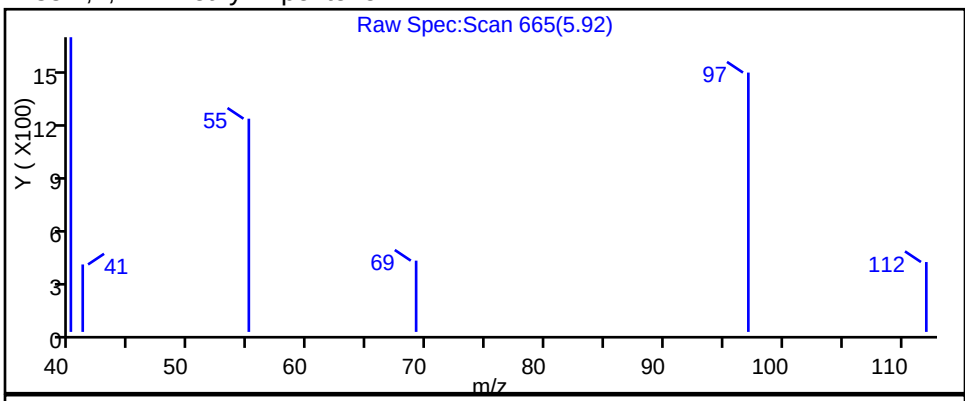
Report Date: 20-Dec-2012 14:27:11 Chrom Revision: 2.0 22-Oct-2012 16:30:48

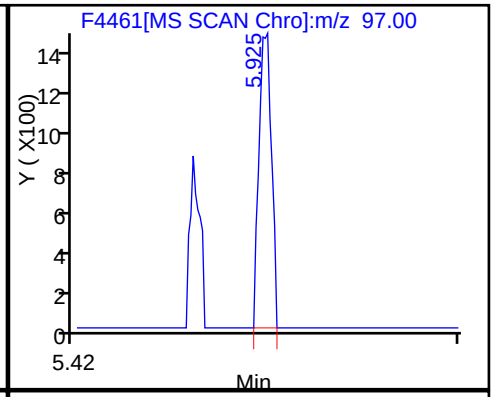
TestAmerica Buffalo

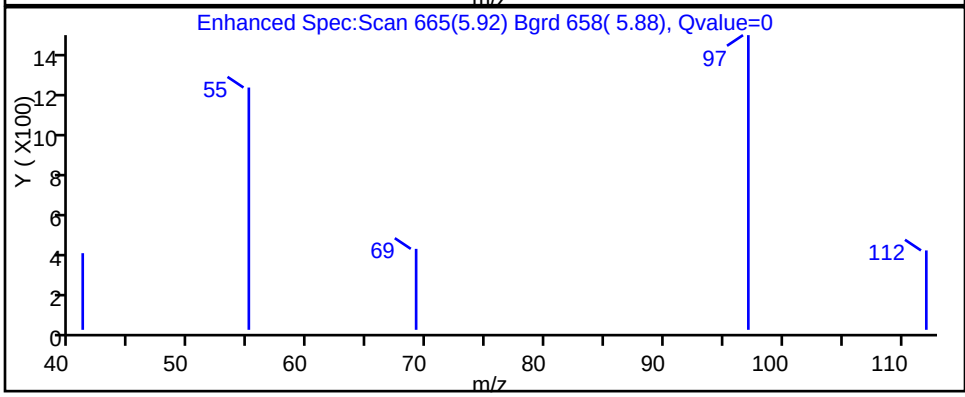
Data File: \\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4461.D

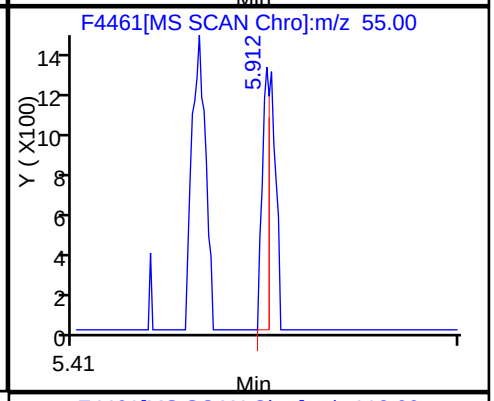
Injection Date:	19-Dec-2012 17:54:30	Limit Group:	MV - 8260MCP_RCP
Client ID:	OC-SD-SD-503-XXX	Instrument ID:	HP5973F
Lims Batch ID:	96559	Lims Sample ID:	11
Operator ID:	JMB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

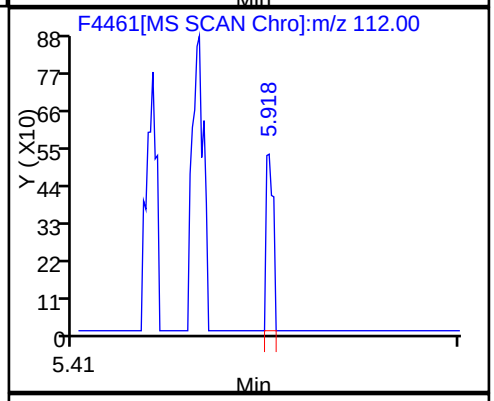
135 2,4,4-Trimethyl-2-pentene

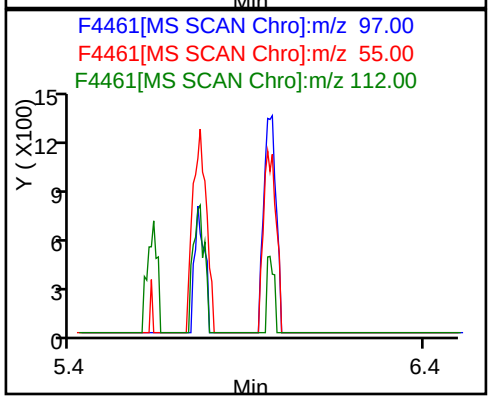










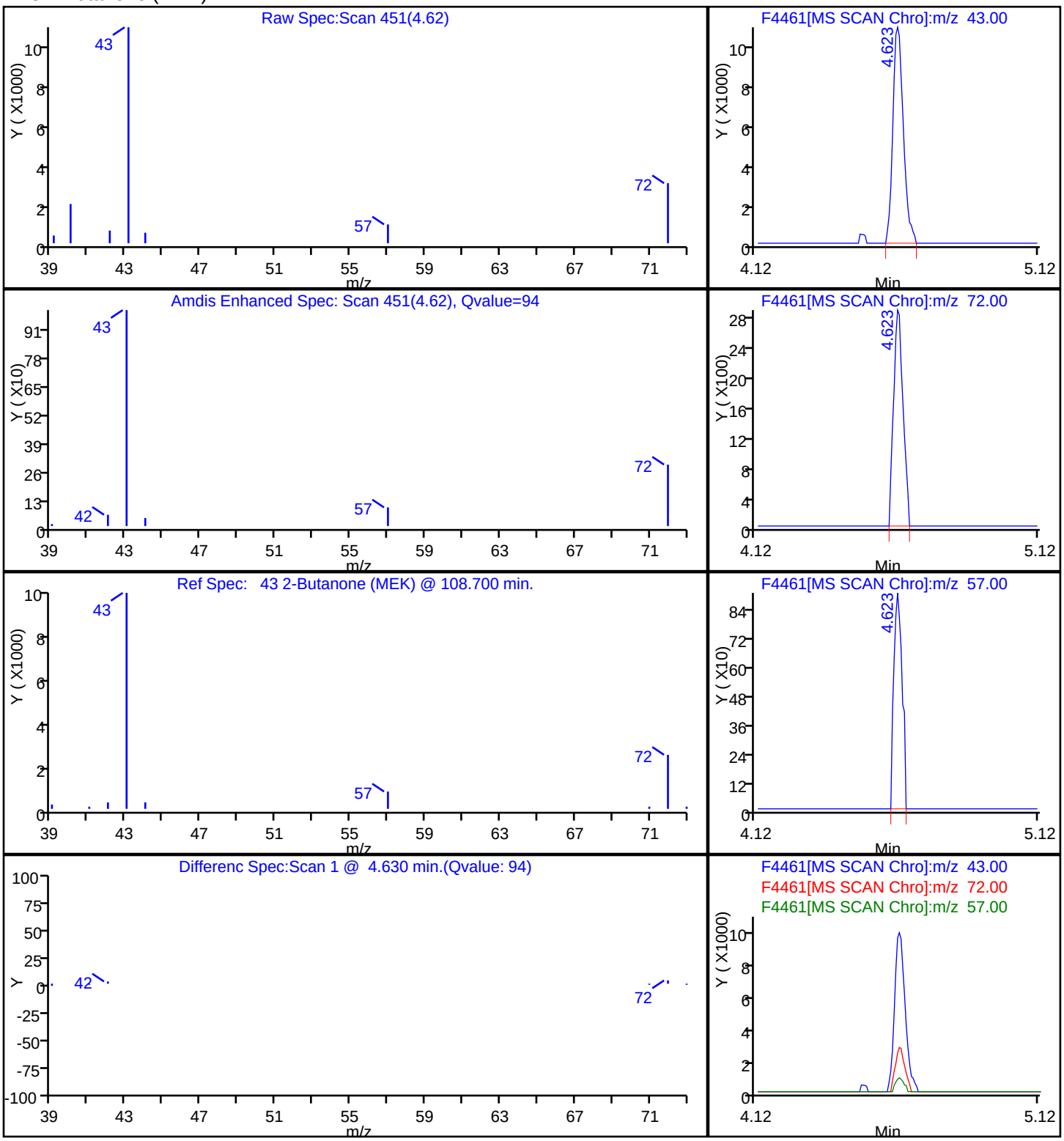


Report Date: 20-Dec-2012 14:27:11 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4461.D		
Injection Date:	19-Dec-2012 17:54:30	Limit Group:	MV - 8260MCP_RCP
Client ID:	OC-SD-SD-503-XXX	Instrument ID:	HP5973F
Lims Batch ID:	96559	Lims Sample ID:	11
Operator ID:	JMB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

43 2-Butanone (MEK)

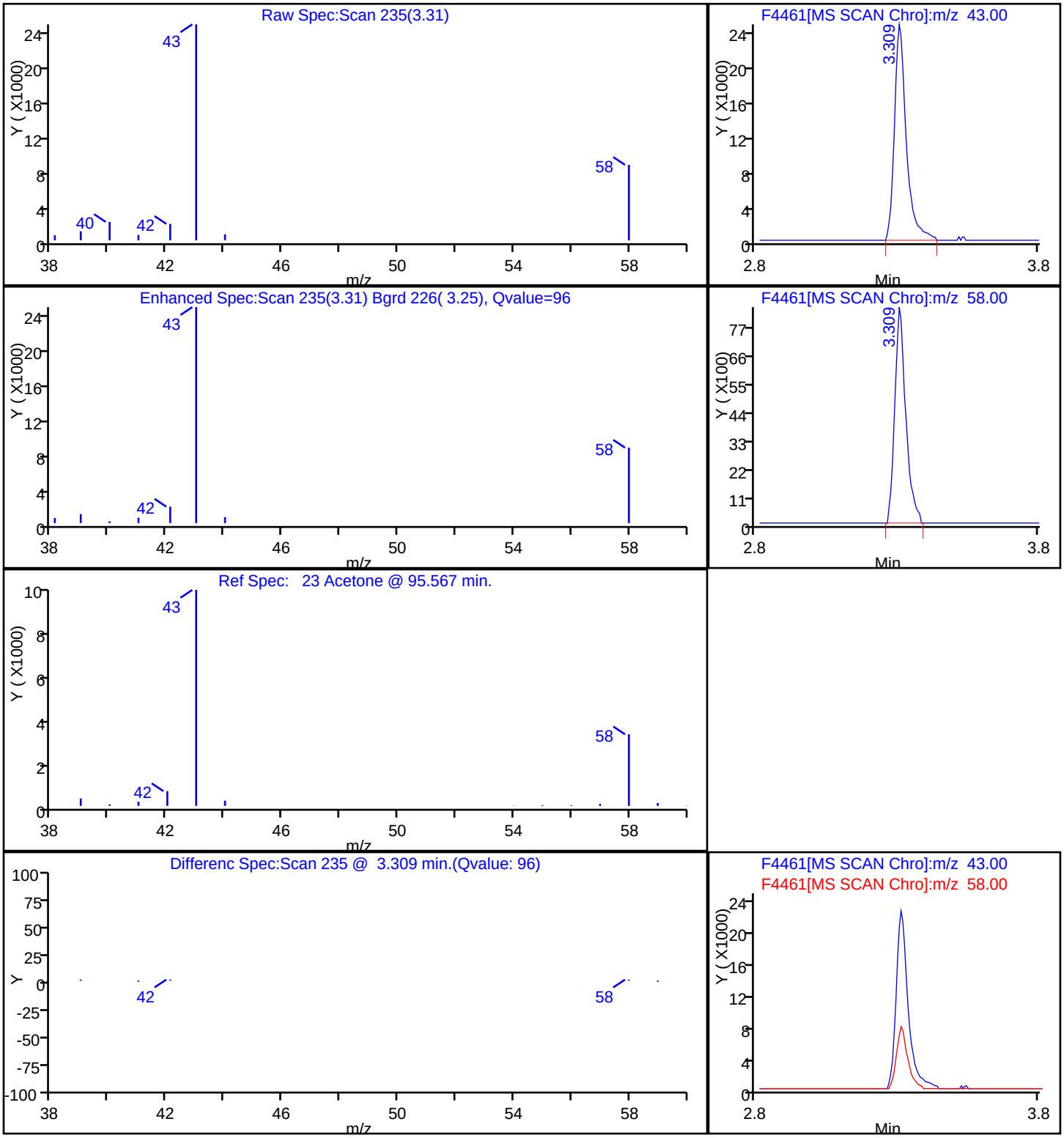


Report Date: 20-Dec-2012 14:27:11 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4461.D		
Injection Date:	19-Dec-2012 17:54:30	Limit Group:	MV - 8260MCP_RCP
Client ID:	OC-SD-SD-503-XXX	Instrument ID:	HP5973F
Lims Batch ID:	96559	Lims Sample ID:	11
Operator ID:	JMB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

23 Acetone

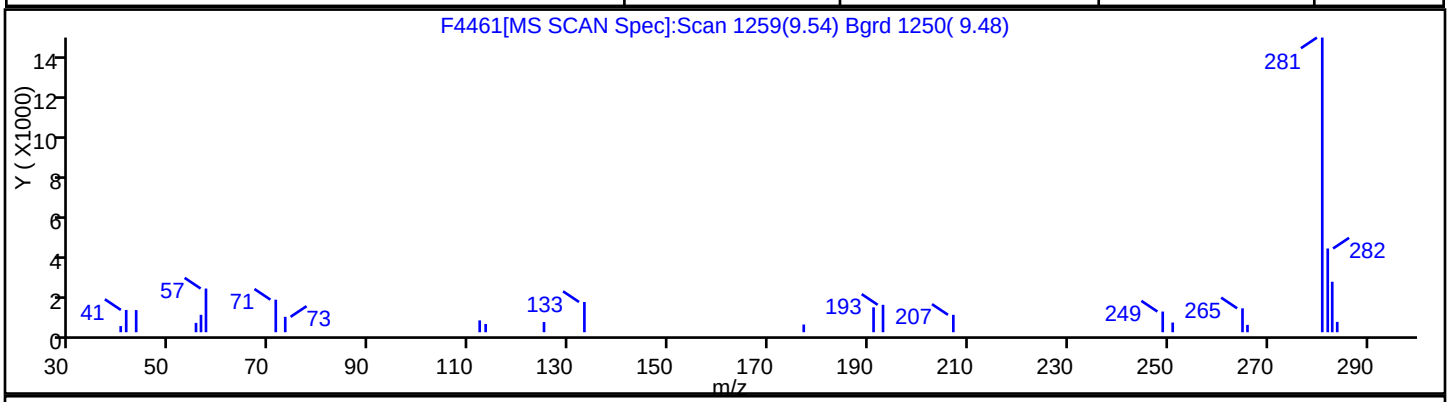


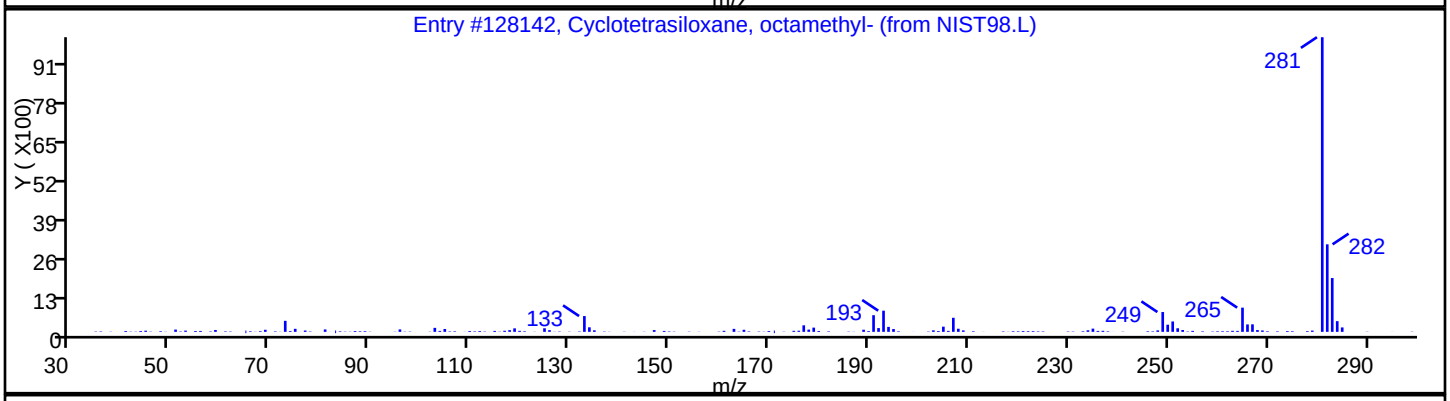
Report Date: 20-Dec-2012 14:27:11 Chrom Revision: 2.0 22-Oct-2012 16:30:48

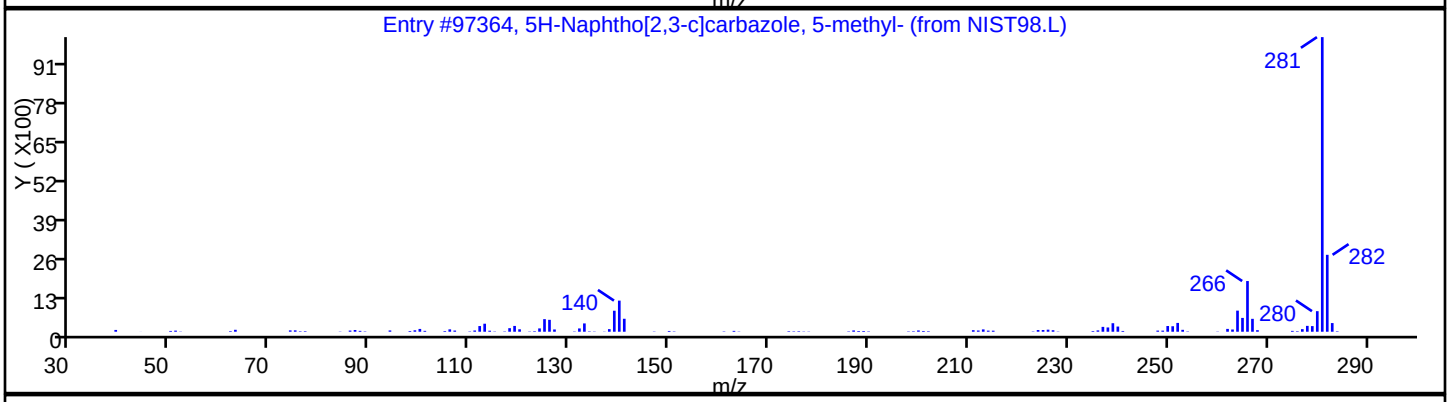
TestAmerica Buffalo

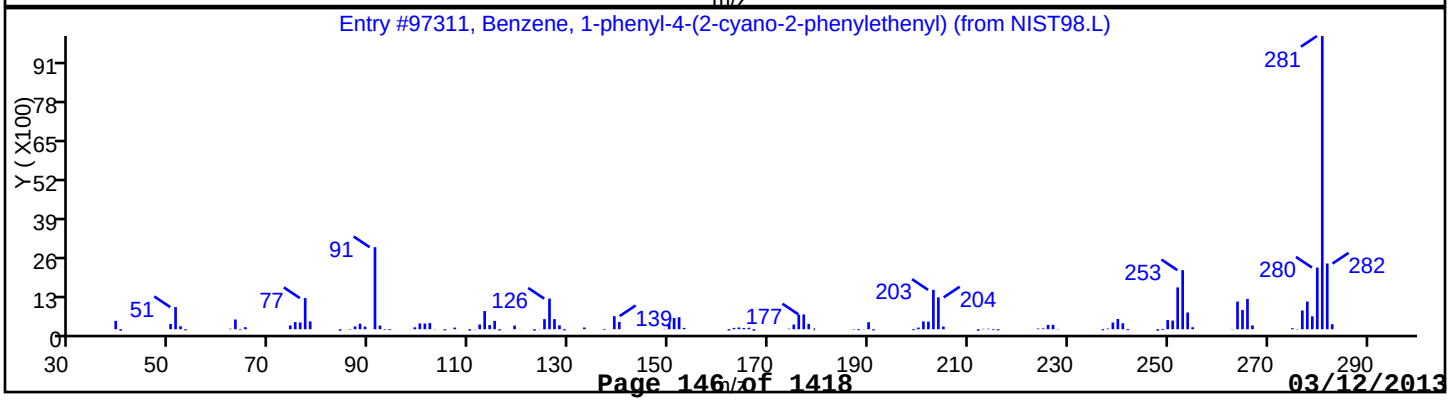
Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4461.D		
Injection Date:	19-Dec-2012 17:54:30	Limit Group:	MV - 8260MCP_RCP
Client ID:	OC-SD-SD-503-XXX	Instrument ID:	HP5973F
Lims Batch ID:	96559	Lims Sample ID:	11
Operator ID:	JMB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Cyclotetrasiloxane, octamethyl-	556-67-2	NIST98.L	128142	90
5H-Naphtho[2,3-c]carbazole, 5-methyl-	100025-44-3	NIST98.L	97364	53
Benzene, 1-phenyl-4-(2-cyano-2-phenyleth	27869-56-3	NIST98.L	97311	53







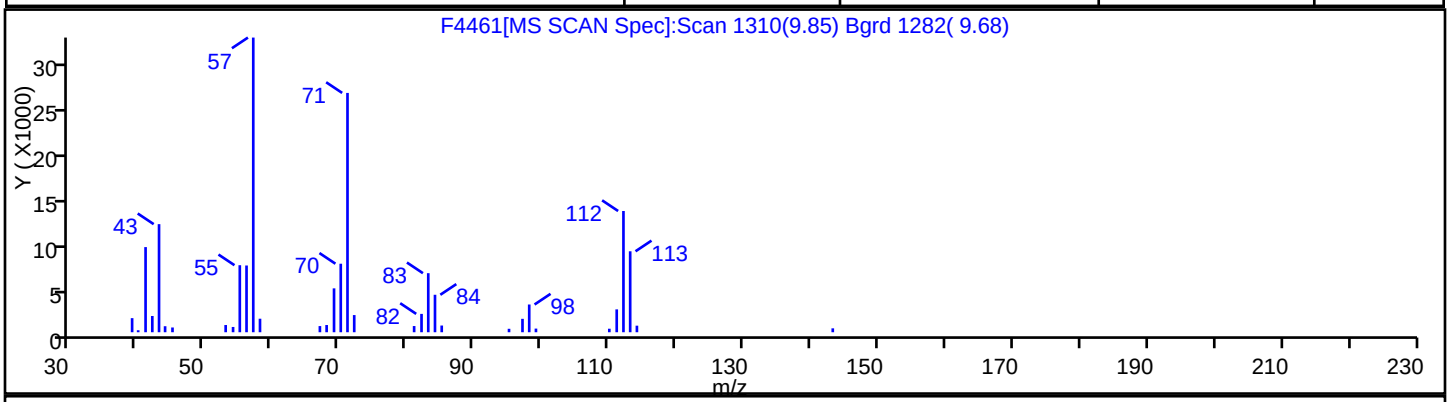


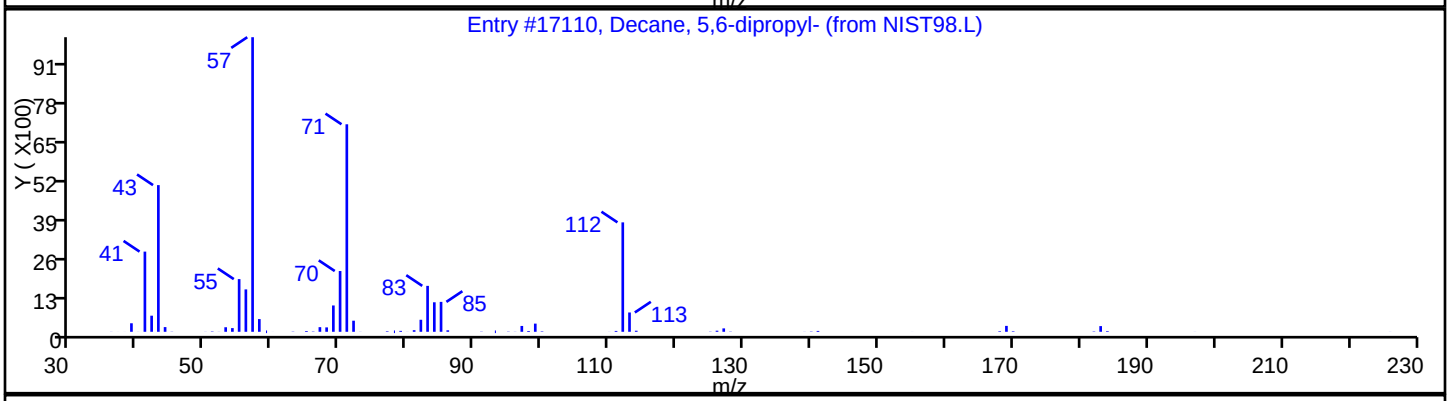
Report Date: 20-Dec-2012 14:27:11 Chrom Revision: 2.0 22-Oct-2012 16:30:48

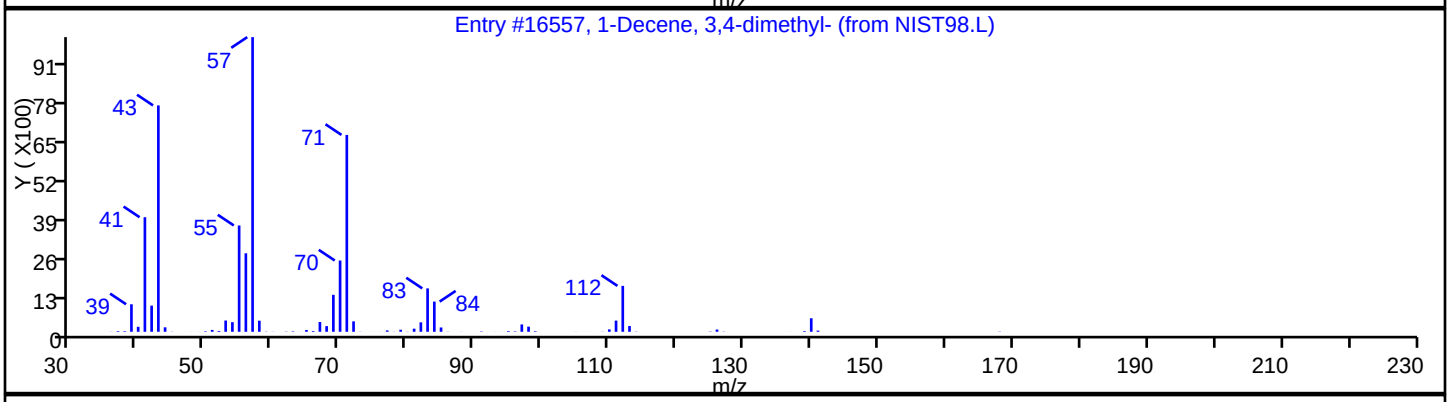
TestAmerica Buffalo

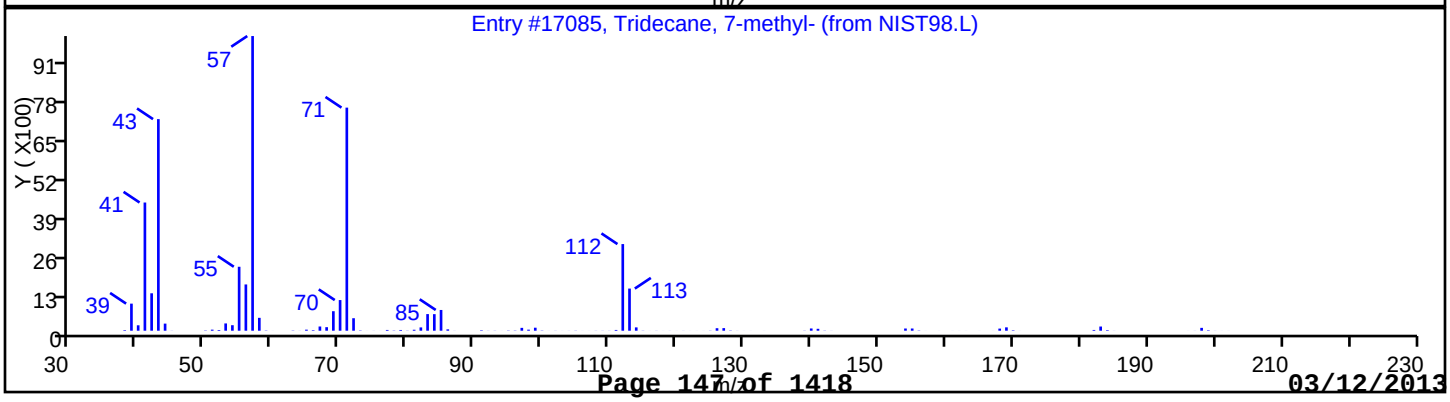
Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4461.D		
Injection Date:	19-Dec-2012 17:54:30	Limit Group:	MV - 8260MCP_RCP
Client ID:	OC-SD-SD-503-XXX	Instrument ID:	HP5973F
Lims Batch ID:	96559	Lims Sample ID:	11
Operator ID:	JMB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Decane, 5,6-dipropyl-	119209-20-0	NIST98.L	17110	72
1-Decene, 3,4-dimethyl-	50871-3-9	NIST98.L	16557	64
Tridecane, 7-methyl-	26730-14-3	NIST98.L	17085	64









FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-30406-1
SDG No.:
Client Sample ID: OC-SD-SD-504-XXX
Lab Sample ID: 480-30406-2
Matrix: Solid
Lab File ID: F4462.D
Analysis Method: 8260C
Date Collected: 12/17/2012 15:00
Sample wt/vol: 5.89(g)
Date Analyzed: 12/19/2012 18:20
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture: 43.7
Level: (low/med) Low
Analysis Batch No.: 96559
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		3.8	0.75
71-55-6	1,1,1-Trichloroethane	ND		3.8	0.55
79-34-5	1,1,2,2-Tetrachloroethane	ND		3.8	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.8	1.7
79-00-5	1,1,2-Trichloroethane	ND		3.8	0.98
75-34-3	1,1-Dichloroethane	ND		3.8	0.92
75-35-4	1,1-Dichloroethene	ND		3.8	0.92
563-58-6	1,1-Dichloropropene	ND		3.8	1.1
87-61-6	1,2,3-Trichlorobenzene	ND		3.8	0.80
96-18-4	1,2,3-Trichloropropane	ND		3.8	0.77
120-82-1	1,2,4-Trichlorobenzene	ND		3.8	0.46
95-63-6	1,2,4-Trimethylbenzene	ND		3.8	1.4
96-12-8	1,2-Dibromo-3-Chloropropane	ND		38	3.8
95-50-1	1,2-Dichlorobenzene	ND		3.8	0.59
107-06-2	1,2-Dichloroethane	ND		3.8	0.38
78-87-5	1,2-Dichloropropane	ND		3.8	3.8
108-67-8	1,3,5-Trimethylbenzene	ND		3.8	0.49
541-73-1	1,3-Dichlorobenzene	ND		3.8	0.39
142-28-9	1,3-Dichloropropane	ND		3.8	0.45
106-46-7	1,4-Dichlorobenzene	ND		3.8	1.1
123-91-1	1,4-Dioxane	ND		380	36
594-20-7	2,2-Dichloropropane	ND		3.8	1.3
107-39-1	2,4,4-Trimethyl-1-pentene	7.8		7.5	0.65
107-40-4	2,4,4-Trimethyl-2-pentene	3.9	J	7.5	0.80
78-93-3	2-Butanone (MEK)	33	J	38	2.8
95-49-8	2-Chlorotoluene	ND		3.8	0.49
591-78-6	2-Hexanone	ND		38	3.8
106-43-4	4-Chlorotoluene	ND		3.8	0.89
99-87-6	4-Isopropyltoluene	ND		3.8	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		38	2.5
67-64-1	Acetone	130	J	380	6.4
71-43-2	Benzene	ND		3.8	0.37
108-86-1	Bromobenzene	ND		3.8	1.3
75-25-2	Bromoform	ND		3.8	3.8
74-83-9	Bromomethane	ND	*	7.5	0.68

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-30406-1

SDG No.:

Client Sample ID: OC-SD-SD-504-XXX | Lab Sample ID: 480-30406-2

Matrix: Solid | Lab File ID: F4462.D

Analysis Method: 8260C | Date Collected: 12/17/2012 15:00

Sample wt/vol: 5.89(g) | Date Analyzed: 12/19/2012 18:20

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: 43.7 | Level: (low/med) Low

Analysis Batch No.: 96559 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-15-0	Carbon disulfide	ND		3.8	3.8
56-23-5	Carbon tetrachloride	ND		3.8	0.73
108-90-7	Chlorobenzene	ND		3.8	1.0
74-97-5	Chlorobromomethane	ND		3.8	0.54
124-48-1	Chlorodibromomethane	ND		3.8	0.97
75-00-3	Chloroethane	ND		7.5	1.7
67-66-3	Chloroform	ND		3.8	0.47
74-87-3	Chloromethane	ND		7.5	0.46
156-59-2	cis-1,2-Dichloroethene	ND		3.8	0.97
10061-01-5	cis-1,3-Dichloropropene	ND		3.8	1.1
110-82-7	Cyclohexane	ND		38	1.1
74-95-3	Dibromomethane	ND		3.8	0.78
75-27-4	Dichlorobromomethane	ND		3.8	1.0
75-71-8	Dichlorodifluoromethane	ND		7.5	0.62
60-29-7	Ethyl ether	ND		3.8	3.2
100-41-4	Ethylbenzene	ND		3.8	0.52
106-93-4	Ethylene Dibromide	ND		3.8	0.97
87-68-3	Hexachlorobutadiene	ND		3.8	0.88
108-20-3	Isopropyl ether	ND		3.8	3.8
98-82-8	Isopropylbenzene	ND		3.8	1.1
79-20-9	Methyl acetate	ND		75	1.4
1634-04-4	Methyl tert-butyl ether	ND		3.8	0.74
108-87-2	Methylcyclohexane	ND		3.8	1.1
75-09-2	Methylene Chloride	ND		3.8	3.5
179601-23-1	m-Xylene & p-Xylene	ND		7.5	1.3
91-20-3	Naphthalene	ND		38	1.0
104-51-8	n-Butylbenzene	ND		3.8	0.66
103-65-1	N-Propylbenzene	ND		3.8	0.60
95-47-6	o-Xylene	ND		3.8	0.99
135-98-8	sec-Butylbenzene	ND		3.8	0.66
100-42-5	Styrene	ND		3.8	0.38
994-05-8	Tert-amyl methyl ether	ND		3.8	1.9
637-92-3	Tert-butyl ethyl ether	ND		3.8	3.3
98-06-6	tert-Butylbenzene	ND		3.8	0.78
127-18-4	Tetrachloroethene	ND		3.8	1.0
109-99-9	Tetrahydrofuran	ND		75	6.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-30406-1

SDG No.:

Client Sample ID: OC-SD-SD-504-XXX | Lab Sample ID: 480-30406-2

Matrix: Solid | Lab File ID: F4462.D

Analysis Method: 8260C | Date Collected: 12/17/2012 15:00

Sample wt/vol: 5.89(g) | Date Analyzed: 12/19/2012 18:20

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: 43.7 | Level: (low/med) Low

Analysis Batch No.: 96559 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		3.8	0.57
156-60-5	trans-1,2-Dichloroethene	ND		3.8	0.78
10061-02-6	trans-1,3-Dichloropropene	ND		3.8	3.3
79-01-6	Trichloroethene	ND		3.8	1.7
75-69-4	Trichlorofluoromethane	ND		7.5	0.71
75-01-4	Vinyl chloride	ND		3.8	0.92

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	92		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		70-130
460-00-4	4-Bromofluorobenzene (Surr)	89		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Client Sample ID: OC-SD-SD-504-XXX Lab Sample ID: 480-30406-2

Matrix: Solid Lab File ID: F4462.D

Analysis Method: 8260C Date Collected: 12/17/2012 15:00

Sample wt/vol: 5.89(g) Date Analyzed: 12/19/2012 18:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: 43.7 Level: (low/med) Low

Analysis Batch No.: 96559 Units: ug/Kg

Number TICs Found: 3 TIC Result Total: 43

CAS NO.	COMPOUND NAME	RT	RESULT	Q
15220-85-6	1-Propene, 2-methyl-, tetramer	13.15	21	T J N
4390-4-9	Nonane, 2,2,4,4,6,8,8-heptamethyl-	13.29	11	T J N
15220-85-6	1-Propene, 2-methyl-, tetramer	13.37	11	T J N

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4462.D		
Lims ID:	480-30406-H-2-A	Client ID:	OC-SD-SD-504-XXX
Inject. Date:	19-Dec-2012 18:20:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	480-30406-H-2-A		
Misc. Info.:	480-0017691-012 =480-0017691-012		
Operator:	JMB	Instrument ID:	HP5973F
Purge Vol:	5.000 mL	ALS Bottle#:	12
Lims Batch ID:	96559	Lims Sample ID:	12
Detector:	MS SCAN		
Method:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F-8260 SOIL.m		
Last Update:	20-Dec-2012 14:27:08	Calib Date:	17-Dec-2012 14:47:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F4396.D		
Limit Group:	MV - 8260MCP_RCP		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK010		

First Level Reviewer: ByrnesJ Date: 20-Dec-2012 14:25:58

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.608	5.608	0.0	92	241626	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	75	104458	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	91	114628	50.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.304	5.304	0.0	99	37353	46.9	
$ 5 Toluene-d8 (Surr)	98	6.928	6.934	-0.006	81	279275	46.2	
$ 6 4-Bromofluorobenzene (Surr)	174	9.599	9.599	0.0	91	93020	44.7	
10 Dichlorodifluoromethane	85		2.007					
12 Chloromethane	50		2.159					
13 Vinyl chloride	62		2.274					
14 Bromomethane	94		2.560					
15 Chloroethane	64		2.633					
17 Trichlorofluoromethane	101		2.858					
18 Ethyl ether	59		3.035					
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.236					
22 1,1-Dichloroethene	96		3.260					
23 Acetone	43	3.309	3.309	0.0	96	49566	84.9	
26 Carbon disulfide	76		3.473					
27 Methyl acetate	43		3.528					
30 Methylene Chloride	84		3.649					
32 Methyl tert-butyl ether	73		3.801					
34 trans-1,2-Dichloroethene	96		3.838					
36 Isopropyl ether	45		4.130					
39 1,1-Dichloroethane	63		4.179					
41 Tert-butyl ethyl ether	59		4.416					
43 2-Butanone (MEK)	43	4.617	4.623	-0.006	85	20671	21.9	
44 2,2-Dichloropropane	77		4.629					
45 cis-1,2-Dichloroethene	96		4.635					
48 Chlorobromomethane	128		4.842					
49 Tetrahydrofuran	42		4.860					
50 Chloroform	83		4.878					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
51 1,1,1-Trichloroethane	97		5.024					
52 Cyclohexane	56		5.055					
54 1,1-Dichloropropene	75		5.146					
55 Carbon tetrachloride	117		5.152					
57 Benzene	78		5.335					
56 Tert-amyl methyl ether	73		5.347					
58 1,2-Dichloroethane	62		5.365					
136 2,4,4-Trimethyl-1-pentene	55	5.724	5.742	-0.018	0	9301	5.17	
62 Trichloroethene	95		5.858					
135 2,4,4-Trimethyl-2-pentene	97	5.919	5.918	0.001	0	9053	2.56	
64 Methylcyclohexane	83		5.992					
65 1,2-Dichloropropane	63		6.077					
66 1,4-Dioxane	88		6.186					
67 Dibromomethane	93		6.211					
68 Dichlorobromomethane	83		6.320					9
72 cis-1,3-Dichloropropene	75		6.703					
73 4-Methyl-2-pentanone (MIBK)	43		6.801					9
74 Toluene	92		6.995					9
77 trans-1,3-Dichloropropene	75		7.220					
79 1,1,2-Trichloroethane	83		7.415					
81 Tetrachloroethene	166		7.525					
82 1,3-Dichloropropane	76		7.585					
80 2-Hexanone	43		7.592					9
83 Chlorodibromomethane	129		7.829					
84 Ethylene Dibromide	107		7.963					
87 Chlorobenzene	112		8.413					
88 Ethylbenzene	91		8.474					
89 1,1,1,2-Tetrachloroethane	131		8.492					
90 m-Xylene & p-Xylene	106		8.589					9
91 o-Xylene	106		9.021					
92 Styrene	104		9.045					
95 Bromoform	173		9.319					
94 Isopropylbenzene	105		9.386					
97 1,1,2,2-Tetrachloroethane	83		9.757					9
101 Bromobenzene	156		9.769					
100 1,2,3-Trichloropropane	110		9.812					
103 2-Chlorotoluene	126		9.928					
102 1,3,5-Trimethylbenzene	105		9.964					9
99 N-Propylbenzene	91		10.031					
105 4-Chlorotoluene	126		10.031					
106 tert-Butylbenzene	134		10.280					
107 1,2,4-Trimethylbenzene	105	10.329	10.329	0.0	1	2724	0.4123	
109 sec-Butylbenzene	105		10.481					9
110 4-Isopropyltoluene	119		10.603					
111 1,3-Dichlorobenzene	146		10.645					
113 1,4-Dichlorobenzene	146		10.725					
115 n-Butylbenzene	91		10.974					
116 1,2-Dichlorobenzene	146		11.065					
117 1,2-Dibromo-3-Chloropropane	75		11.741					
119 1,2,4-Trichlorobenzene	180		12.385					
120 Hexachlorobutadiene	225		12.483					
121 Naphthalene	128		12.623					9

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
122 1,2,3-Trichlorobenzene	180		12.842					

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

TestAmerica Buffalo
Tentatively Identified Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4462.D		
Lims ID:	480-30406-H-2-A	Client ID:	OC-SD-SD-504-XXX
Inject. Date:	19-Dec-2012 18:20:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	480-30406-H-2-A		
Misc. Info.:	480-0017691-012 =480-0017691-012		
Operator:	JMB	Instrument ID:	HP5973F
Purge Vol:	5.000 mL	ALS Bottle#:	12
Lims Batch ID:	96559	Lims Sample ID:	12
Detector:	MS SCAN		
Method:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F-8260 SOIL.m		
Last Update:	20-Dec-2012 14:27:08	Calib Date:	17-Dec-2012 14:47:30
Tic RT Window:	1.500 -0.000	Response:	area
Quant By:	Nearest ISTD	Quant LOD:	10.00000
MS Library:	\\Bufchrom\ChromData\Database\NIST98.L		
Min. Match:	0		
Process Host:	XAWRK010		
First Level Reviewer: ByrnesJ		Date:	20-Dec-2012 14:25:58

Tentative Identified Compound Results

RT	Response	Amount ug/kg	Quant Cpnd	Qual	Lib Entry	Flags
15220-85-6 1-Propene, 2-methyl-, tetramer						
13.152	176956	14.2	3	64	17463	
4390-4-9 Nonane, 2,2,4,4,6,8,8-heptamethyl-						
13.286	90176	7.26	3	39	112212	
15220-85-6 1-Propene, 2-methyl-, tetramer						
13.365	87710	7.06	3	64	17463	

Quantitation Compounds

Compound	RT	Response	Amount ug/kg
* 3 1,4-Dichlorobenzene-d4	10.700	621131	50.0

QC Flag Legend

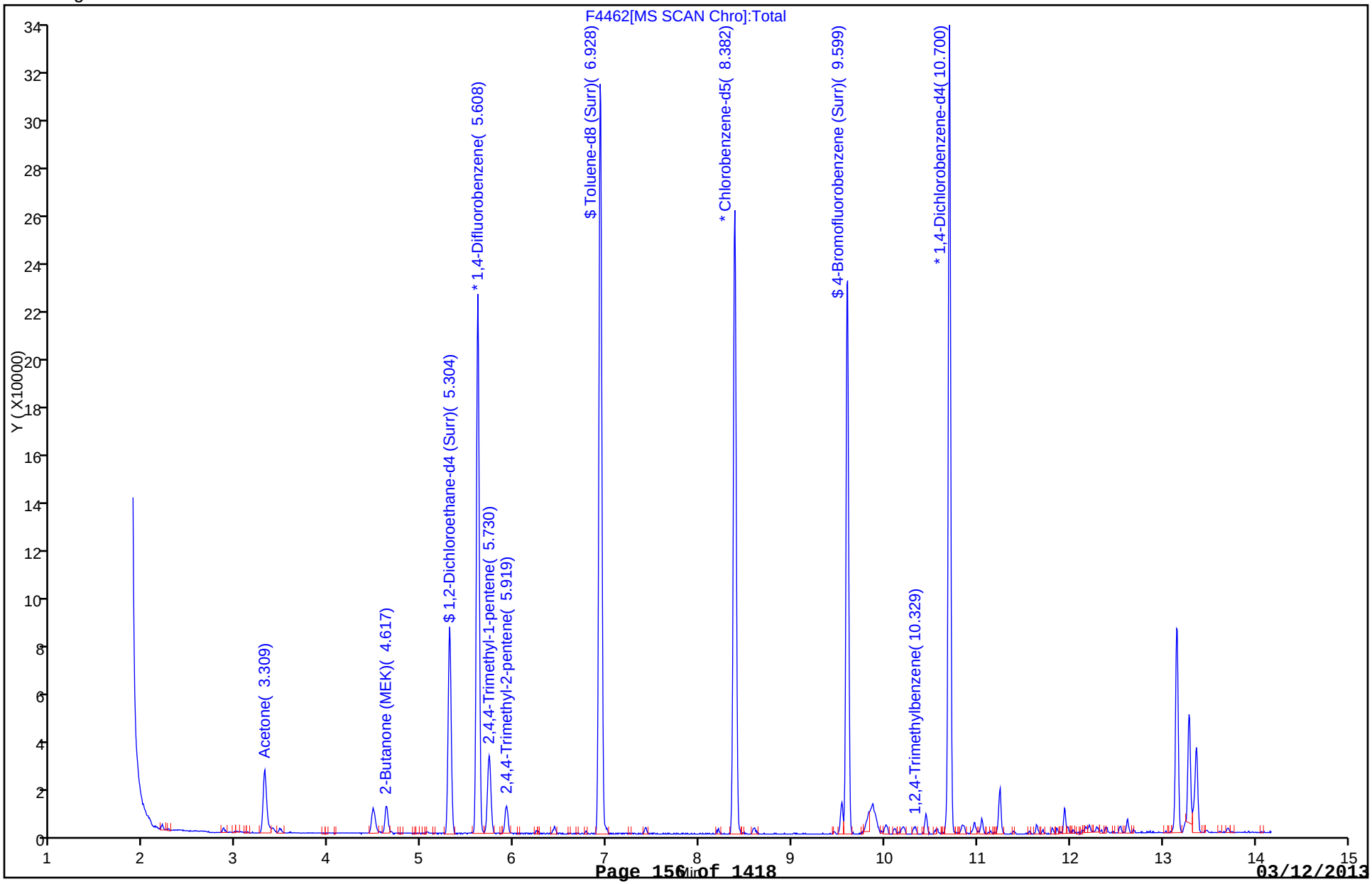
Processing Flags

Report Date: 20-Dec-2012 14:27:10 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4462.D		
Injection Date:	19-Dec-2012 18:20:30	Limit Group:	MV - 8260MCP_RCP
Client ID:	OC-SD-SD-504-XXX	Instrument ID:	HP5973F
Lims Batch ID:	96559	Lims Sample ID:	12
Operator ID:	JMB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:

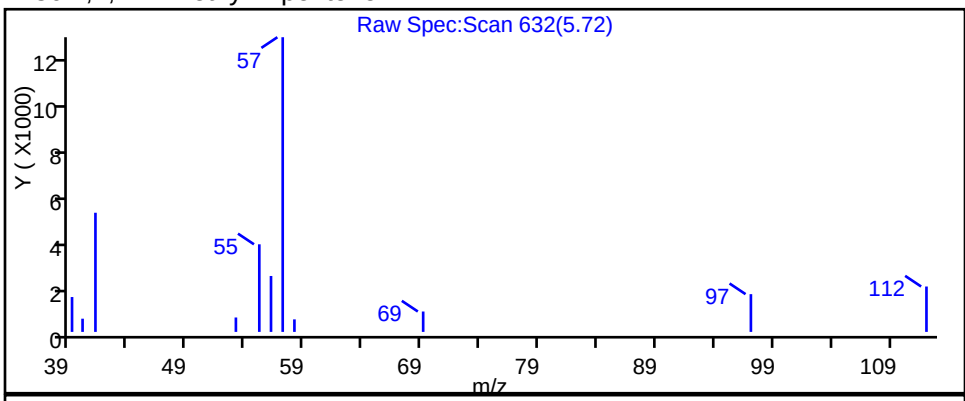


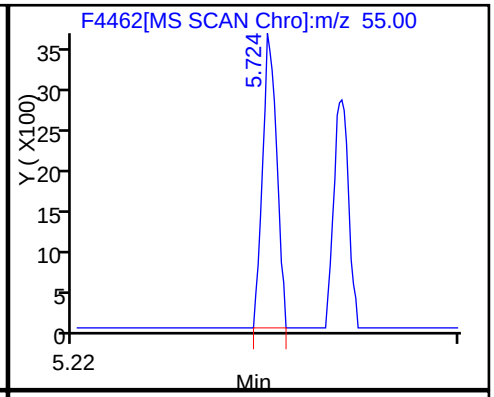
Report Date: 20-Dec-2012 14:27:10 Chrom Revision: 2.0 22-Oct-2012 16:30:48

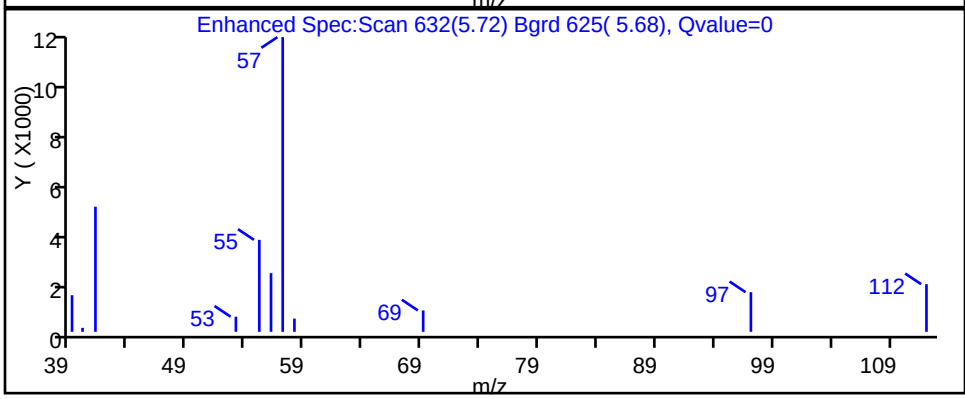
TestAmerica Buffalo

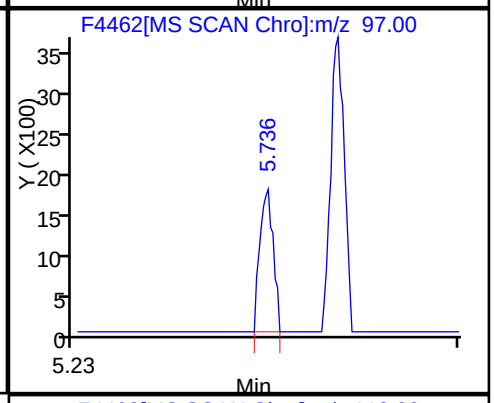
Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4462.D		
Injection Date:	19-Dec-2012 18:20:30	Limit Group:	MV - 8260MCP_RCP
Client ID:	OC-SD-SD-504-XXX	Instrument ID:	HP5973F
Lims Batch ID:	96559	Lims Sample ID:	12
Operator ID:	JMB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

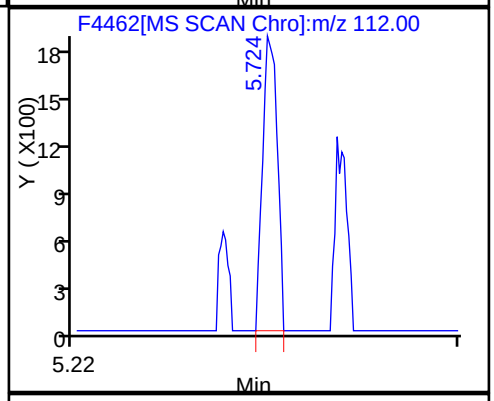
136 2,4,4-Trimethyl-1-pentene

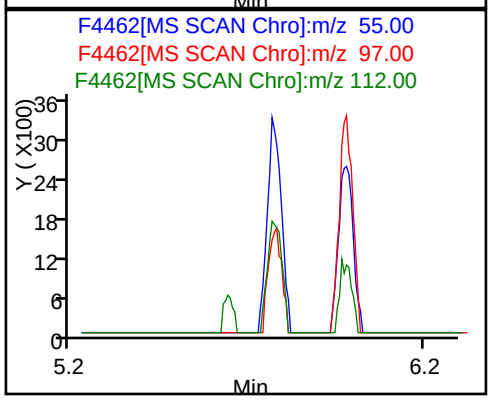












Report Date: 20-Dec-2012 14:27:10 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

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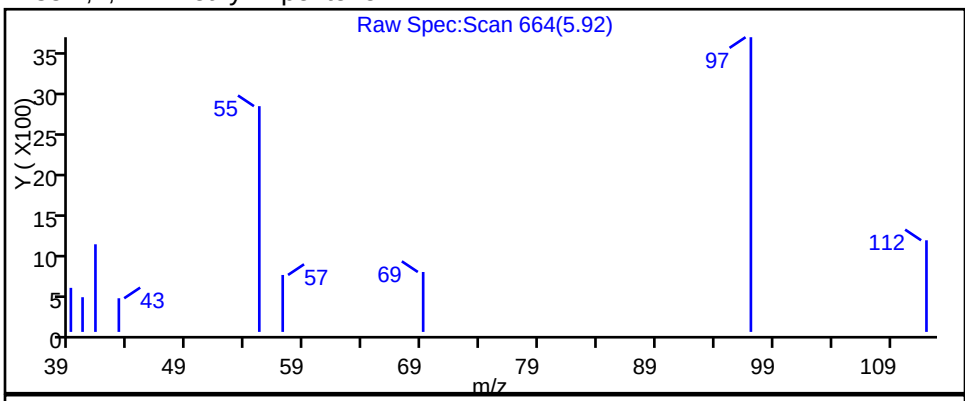
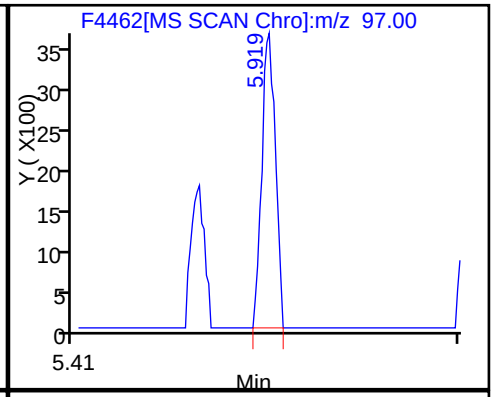
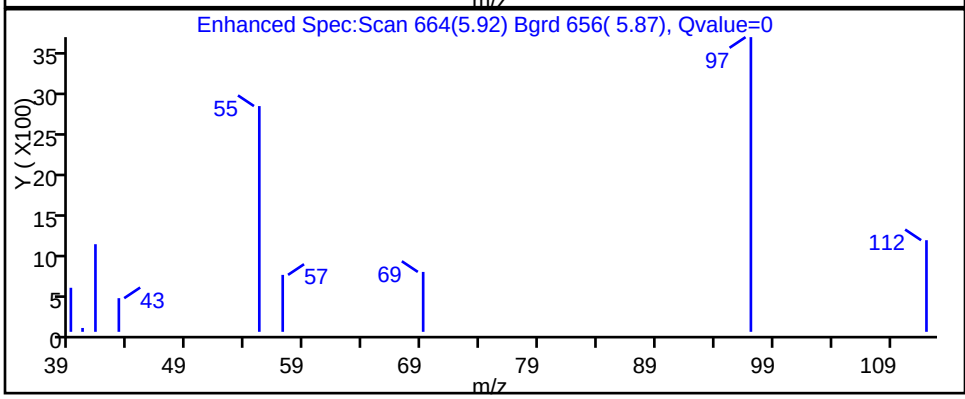
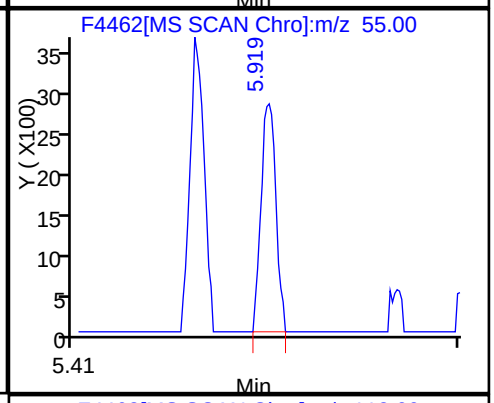
Injection Date:	19-Dec-2012 18:20:30	Limit Group:	MV - 8260MCP_RCP
Client ID:	OC-SD-SD-504-XXX	Instrument ID:	HP5973F
Lims Batch ID:	96559	Lims Sample ID:	12
Operator ID:	JMB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

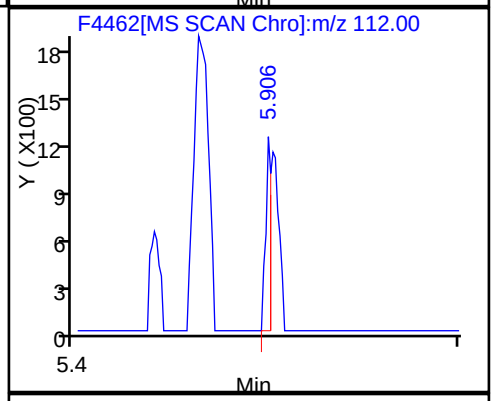
135 2,4,4-Trimethyl-2-pentene

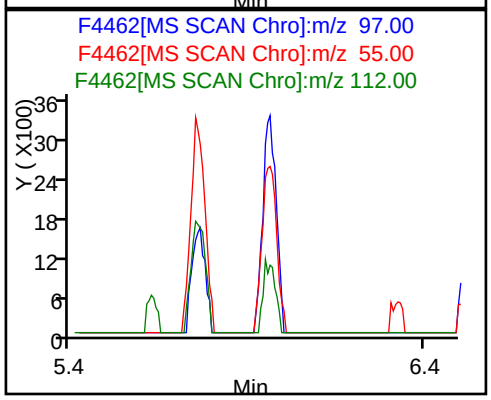












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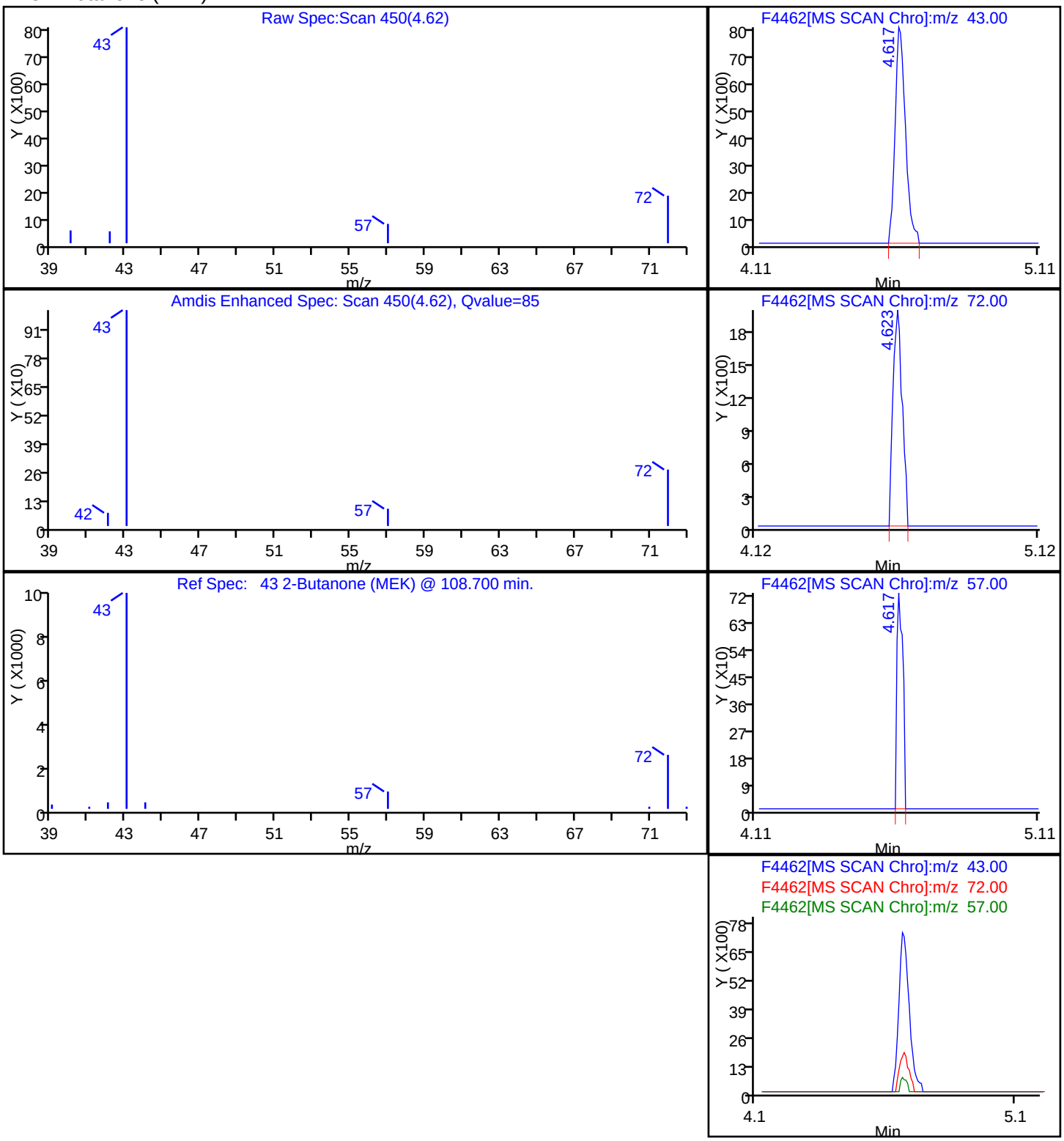
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4462.D		
Injection Date:	19-Dec-2012 18:20:30	Limit Group:	MV - 8260MCP_RCP
Client ID:	OC-SD-SD-504-XXX	Instrument ID:	HP5973F
Lims Batch ID:	96559	Lims Sample ID:	12
Operator ID:	JMB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

43 2-Butanone (MEK)



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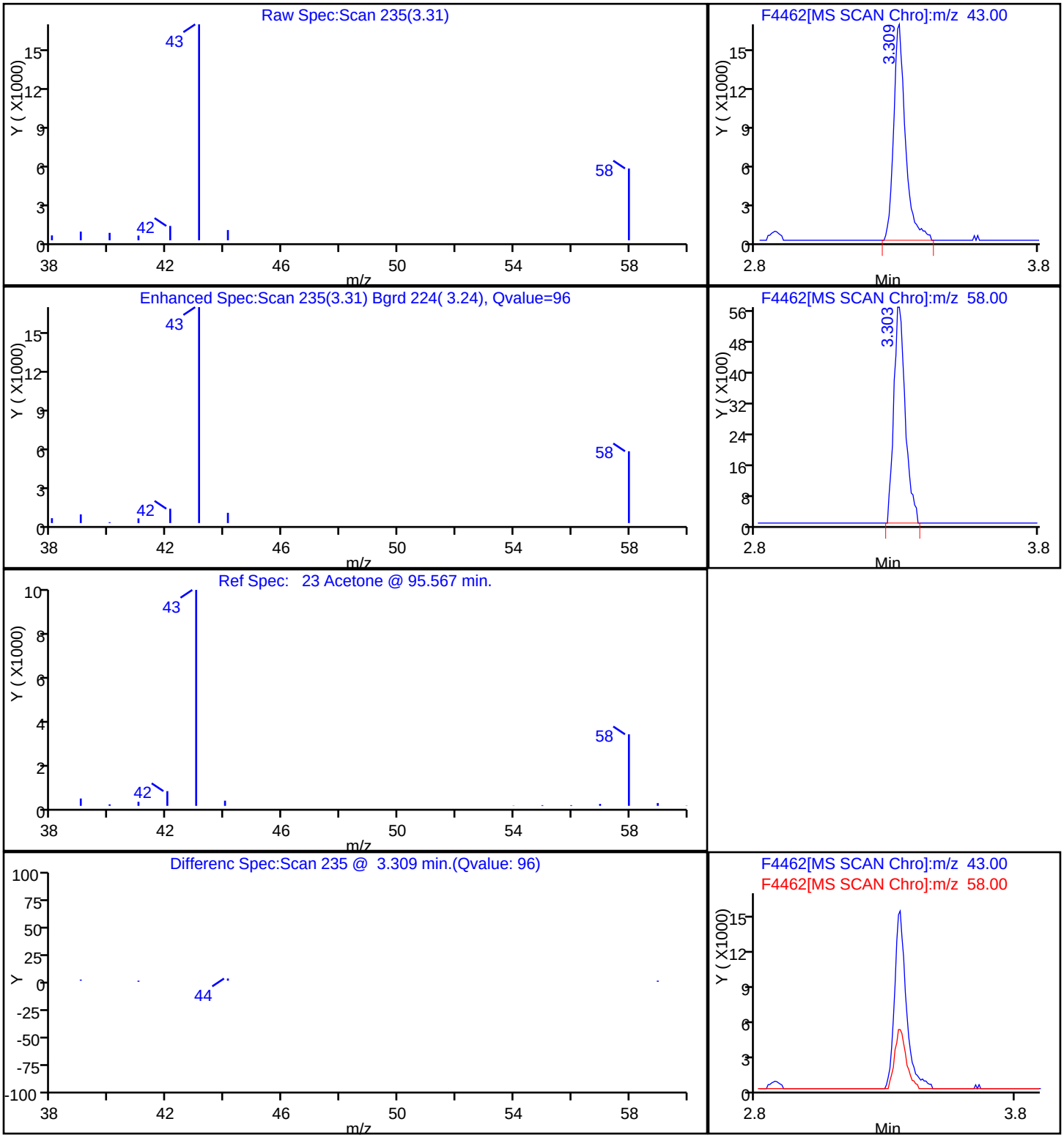
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4462.D		
Injection Date:	19-Dec-2012 18:20:30	Limit Group:	MV - 8260MCP_RCP
Client ID:	OC-SD-SD-504-XXX	Instrument ID:	HP5973F
Lims Batch ID:	96559	Lims Sample ID:	12
Operator ID:	JMB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

23 Acetone

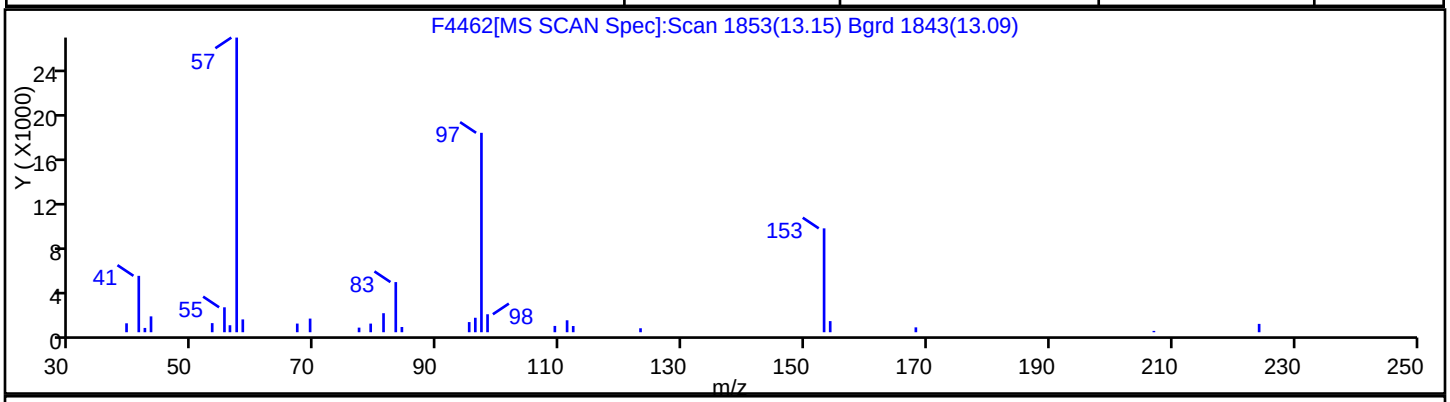


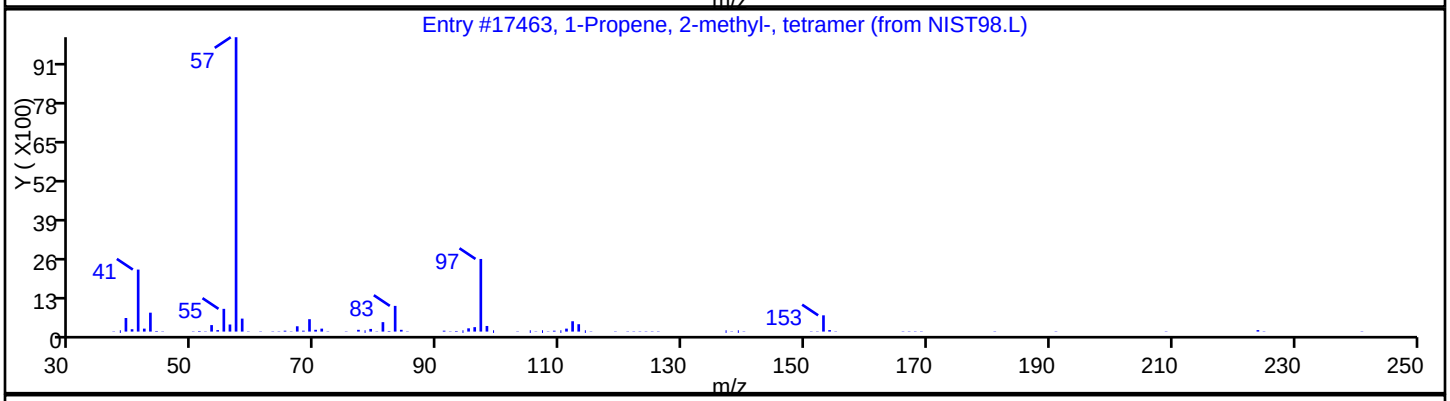
Report Date: 20-Dec-2012 14:27:10 Chrom Revision: 2.0 22-Oct-2012 16:30:48

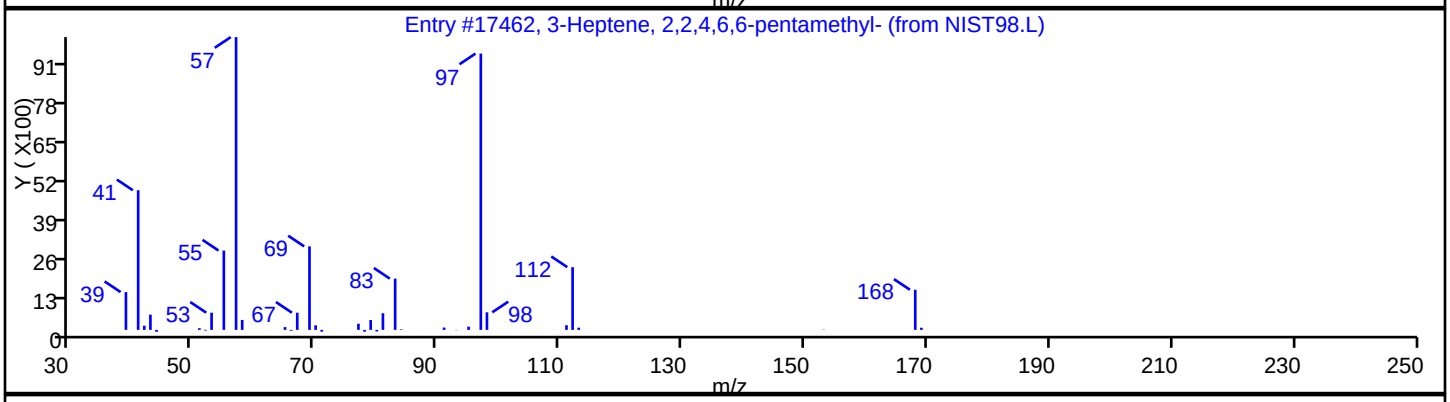
TestAmerica Buffalo

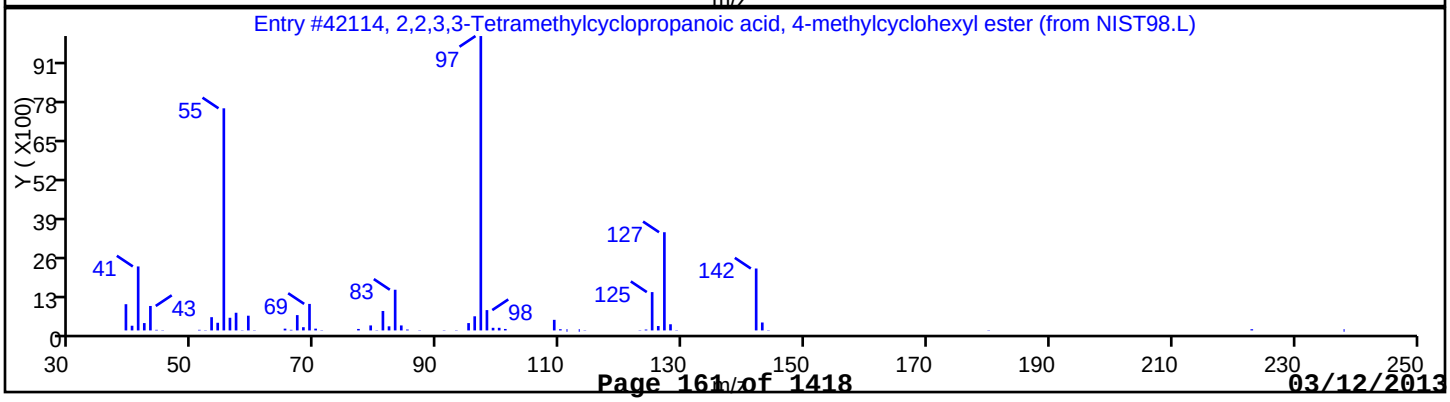
Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4462.D		
Injection Date:	19-Dec-2012 18:20:30	Limit Group:	MV - 8260MCP_RCP
Client ID:	OC-SD-SD-504-XXX	Instrument ID:	HP5973F
Lims Batch ID:	96559	Lims Sample ID:	12
Operator ID:	JMB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
1-Propene, 2-methyl-, tetramer	15220-85-6	NIST98.L	17463	64
3-Heptene, 2,2,4,6,6-pentamethyl-	123-48-8	NIST98.L	17462	50
2,2,3,3-Tetramethylcyclopropanoic acid,	1000221-97-5	NIST98.L	42114	37









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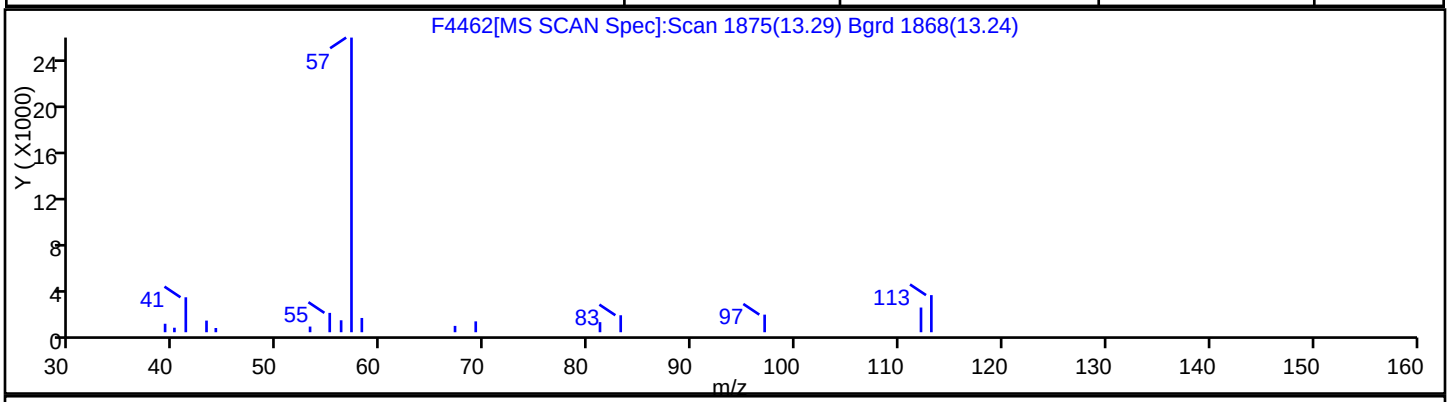
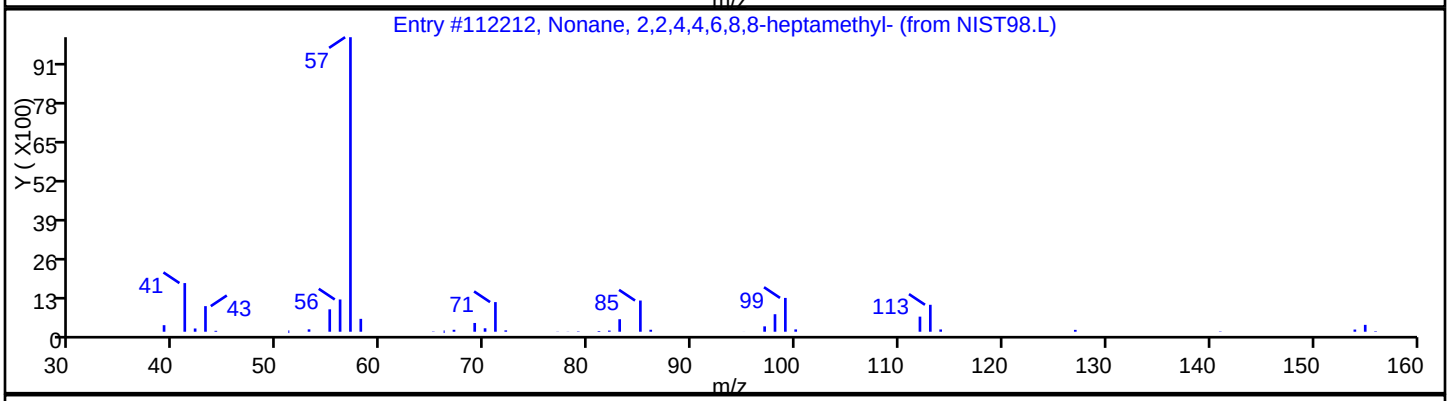
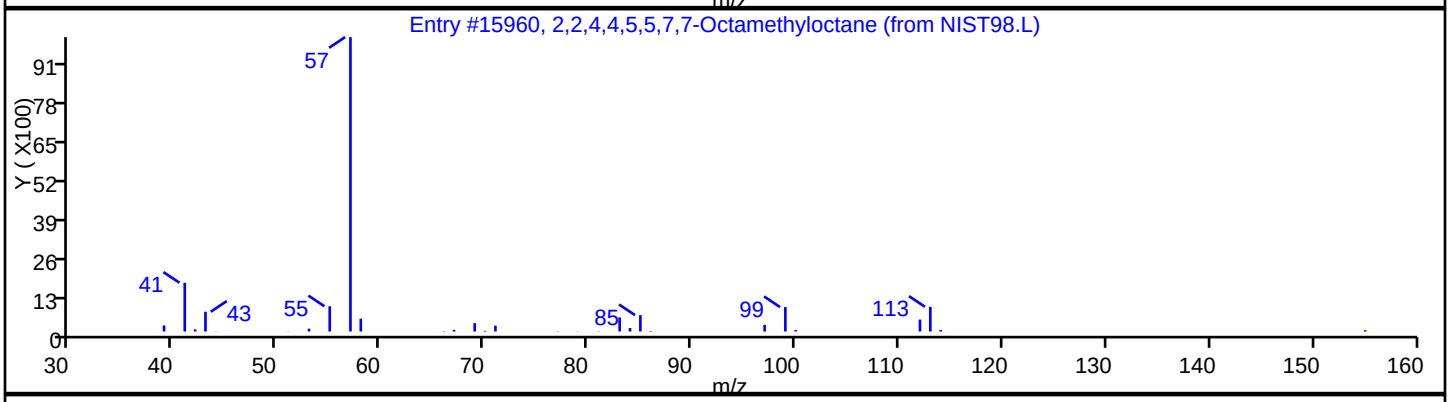
TestAmerica Buffalo

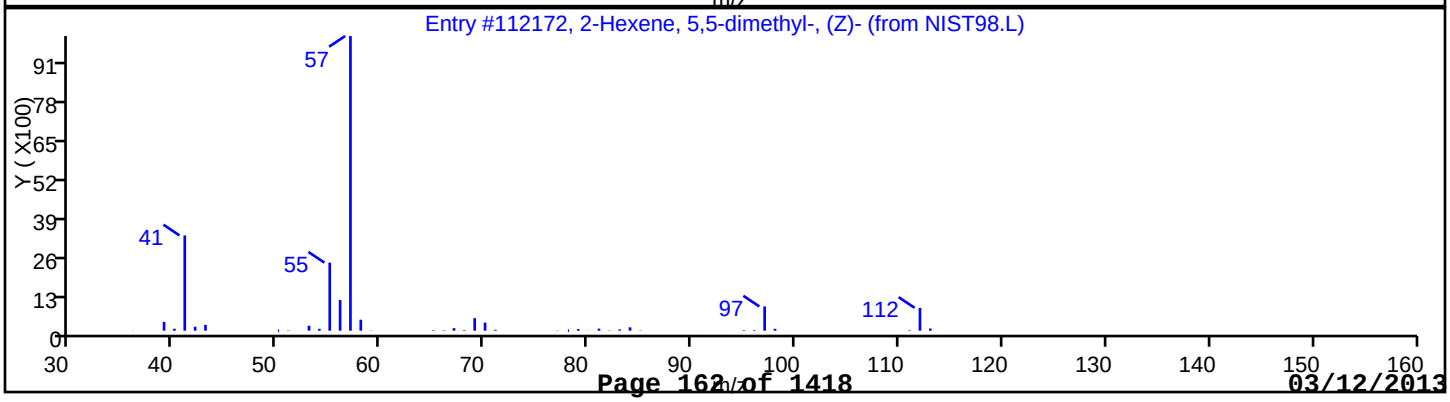
Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4462.D		
Injection Date:	19-Dec-2012 18:20:30	Limit Group:	MV - 8260MCP_RCP
Client ID:	OC-SD-SD-504-XXX	Instrument ID:	HP5973F
Lims Batch ID:	96559	Lims Sample ID:	12
Operator ID:	JMB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Nonane, 2,2,4,4,6,8,8-heptamethyl-	4390-4-9	NIST98.L	112212	39
2,2,4,4,5,5,7,7-Octamethyloctane	5171-85-7	NIST98.L	15960	38
2-Hexene, 5,5-dimethyl-, (Z)-	39761-61-0	NIST98.L	112172	25







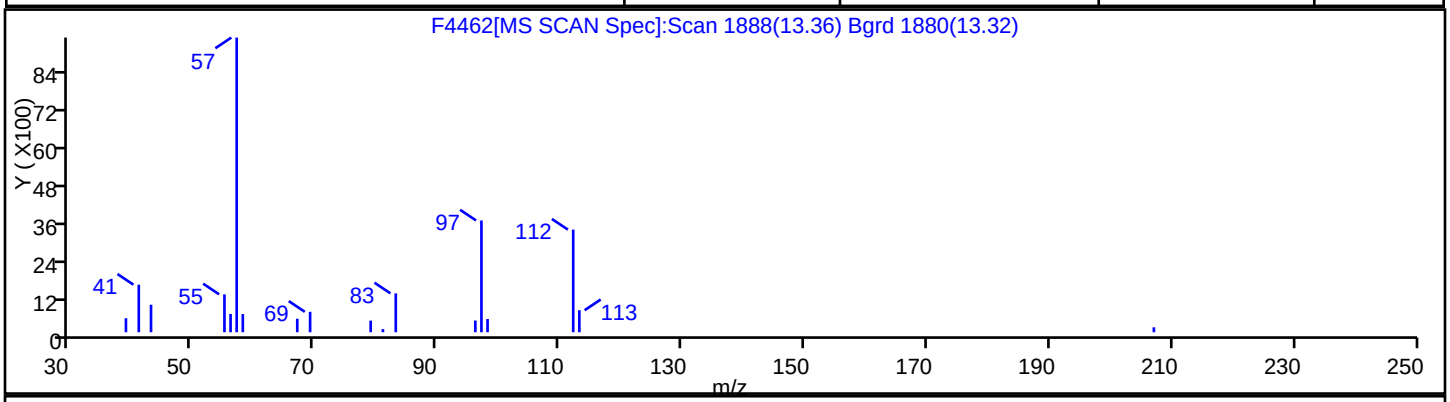


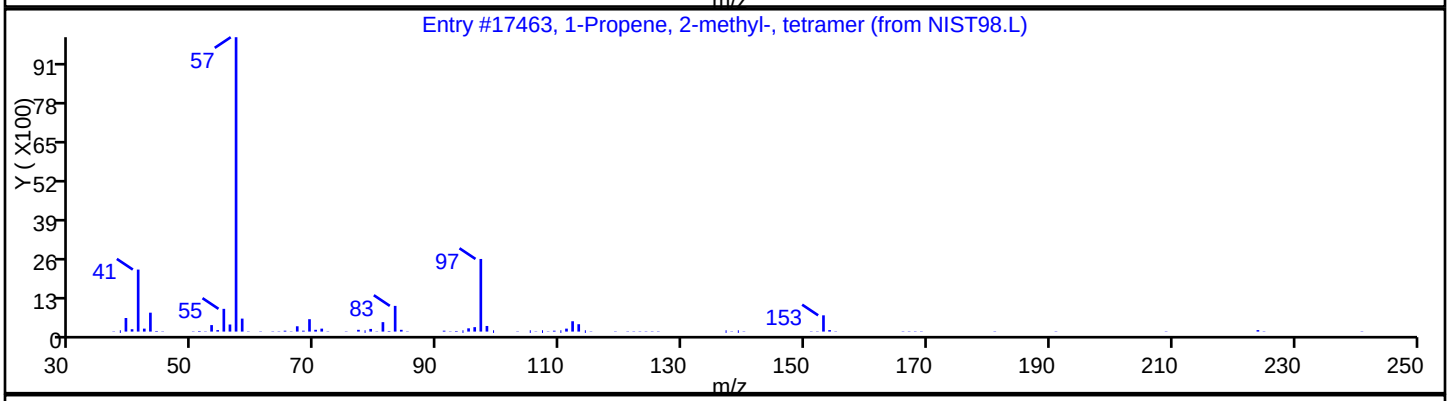
Report Date: 20-Dec-2012 14:27:10 Chrom Revision: 2.0 22-Oct-2012 16:30:48

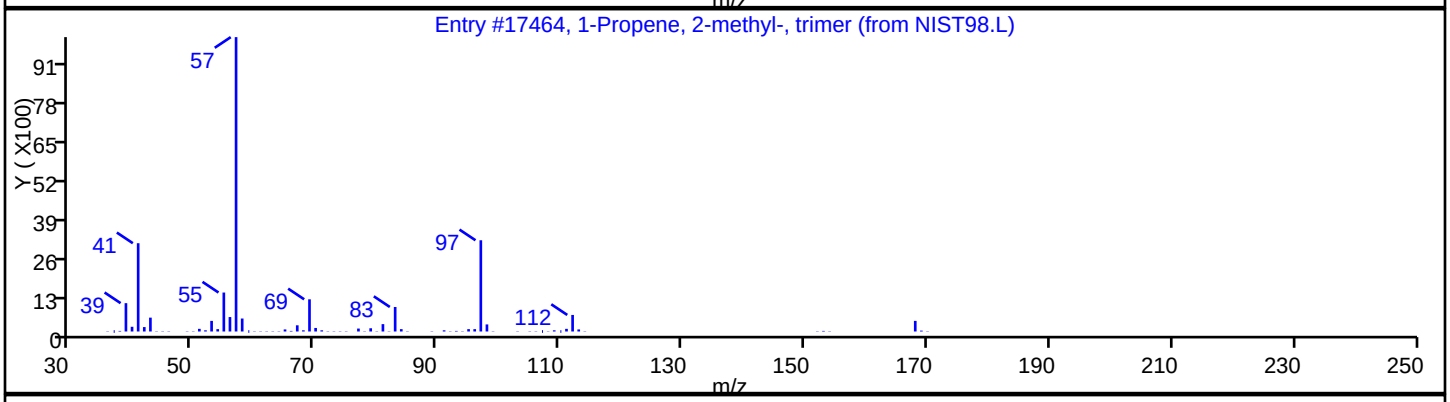
TestAmerica Buffalo

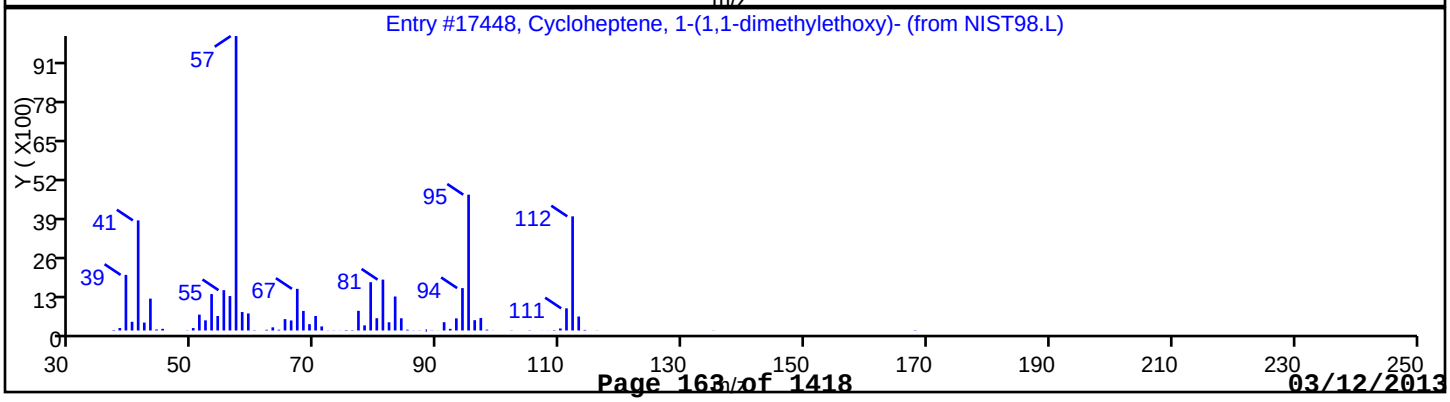
Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4462.D		
Injection Date:	19-Dec-2012 18:20:30	Limit Group:	MV - 8260MCP_RCP
Client ID:	OC-SD-SD-504-XXX	Instrument ID:	HP5973F
Lims Batch ID:	96559	Lims Sample ID:	12
Operator ID:	JMB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
1-Propene, 2-methyl-, tetramer	15220-85-6	NIST98.L	17463	64
1-Propene, 2-methyl-, trimer	7756-94-7	NIST98.L	17464	40
Cycloheptene, 1-(1,1-dimethylethoxy)-	49565-7-3	NIST98.L	17448	33









FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-30406-1

SDG No.:

Client Sample ID: OC-SD-SD-501-XXX | Lab Sample ID: 480-30406-3

Matrix: Solid | Lab File ID: F4463.D

Analysis Method: 8260C | Date Collected: 12/17/2012 12:15

Sample wt/vol: 6.89(g) | Date Analyzed: 12/19/2012 18:46

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: 28.5 | Level: (low/med) Low

Analysis Batch No.: 96559 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		2.5	0.51
71-55-6	1,1,1-Trichloroethane	ND		2.5	0.37
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.5	0.82
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.5	1.2
79-00-5	1,1,2-Trichloroethane	ND		2.5	0.66
75-34-3	1,1-Dichloroethane	ND		2.5	0.62
75-35-4	1,1-Dichloroethene	ND		2.5	0.62
563-58-6	1,1-Dichloropropene	ND		2.5	0.72
87-61-6	1,2,3-Trichlorobenzene	ND		2.5	0.54
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.52
120-82-1	1,2,4-Trichlorobenzene	ND		2.5	0.31
95-63-6	1,2,4-Trimethylbenzene	ND		2.5	0.97
96-12-8	1,2-Dibromo-3-Chloropropane	ND		25	2.5
95-50-1	1,2-Dichlorobenzene	ND		2.5	0.40
107-06-2	1,2-Dichloroethane	ND		2.5	0.25
78-87-5	1,2-Dichloropropane	ND		2.5	2.5
108-67-8	1,3,5-Trimethylbenzene	ND		2.5	0.33
541-73-1	1,3-Dichlorobenzene	ND		2.5	0.26
142-28-9	1,3-Dichloropropane	ND		2.5	0.30
106-46-7	1,4-Dichlorobenzene	ND		2.5	0.71
123-91-1	1,4-Dioxane	ND		250	24
594-20-7	2,2-Dichloropropane	ND		2.5	0.86
107-39-1	2,4,4-Trimethyl-1-pentene	ND		5.1	0.44
107-40-4	2,4,4-Trimethyl-2-pentene	ND		5.1	0.54
78-93-3	2-Butanone (MEK)	27		25	1.9
95-49-8	2-Chlorotoluene	ND		2.5	0.33
591-78-6	2-Hexanone	ND		25	2.5
106-43-4	4-Chlorotoluene	ND		2.5	0.60
99-87-6	4-Isopropyltoluene	ND		2.5	0.41
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	1.7
67-64-1	Acetone	120	J	250	4.3
71-43-2	Benzene	ND		2.5	0.25
108-86-1	Bromobenzene	ND		2.5	0.89
75-25-2	Bromoform	ND		2.5	2.5
74-83-9	Bromomethane	ND	*	5.1	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-30406-1

SDG No.:

Client Sample ID: OC-SD-SD-501-XXX | Lab Sample ID: 480-30406-3

Matrix: Solid | Lab File ID: F4463.D

Analysis Method: 8260C | Date Collected: 12/17/2012 12:15

Sample wt/vol: 6.89(g) | Date Analyzed: 12/19/2012 18:46

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: 28.5 | Level: (low/med) Low

Analysis Batch No.: 96559 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-15-0	Carbon disulfide	ND		2.5	2.5
56-23-5	Carbon tetrachloride	ND		2.5	0.49
108-90-7	Chlorobenzene	ND		2.5	0.67
74-97-5	Chlorobromomethane	ND		2.5	0.37
124-48-1	Chlorodibromomethane	ND		2.5	0.65
75-00-3	Chloroethane	ND		5.1	1.1
67-66-3	Chloroform	ND		2.5	0.31
74-87-3	Chloromethane	ND		5.1	0.31
156-59-2	cis-1,2-Dichloroethene	ND		2.5	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		2.5	0.73
110-82-7	Cyclohexane	ND		25	0.71
74-95-3	Dibromomethane	ND		2.5	0.52
75-27-4	Dichlorobromomethane	ND		2.5	0.68
75-71-8	Dichlorodifluoromethane	ND		5.1	0.42
60-29-7	Ethyl ether	ND		2.5	2.1
100-41-4	Ethylbenzene	ND		2.5	0.35
106-93-4	Ethylene Dibromide	ND		2.5	0.65
87-68-3	Hexachlorobutadiene	ND		2.5	0.59
108-20-3	Isopropyl ether	ND		2.5	2.5
98-82-8	Isopropylbenzene	ND		2.5	0.77
79-20-9	Methyl acetate	ND		51	0.94
1634-04-4	Methyl tert-butyl ether	1.7	J	2.5	0.50
108-87-2	Methylcyclohexane	ND		2.5	0.77
75-09-2	Methylene Chloride	ND		2.5	2.3
179601-23-1	m-Xylene & p-Xylene	ND		5.1	0.85
91-20-3	Naphthalene	ND		25	0.68
104-51-8	n-Butylbenzene	ND		2.5	0.44
103-65-1	N-Propylbenzene	ND		2.5	0.41
95-47-6	o-Xylene	ND		2.5	0.66
135-98-8	sec-Butylbenzene	ND		2.5	0.44
100-42-5	Styrene	ND		2.5	0.25
994-05-8	Tert-amyl methyl ether	ND		2.5	1.3
637-92-3	Tert-butyl ethyl ether	ND		2.5	2.2
98-06-6	tert-Butylbenzene	ND		2.5	0.53
127-18-4	Tetrachloroethene	ND		2.5	0.68
109-99-9	Tetrahydrofuran	ND		51	4.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-30406-1

SDG No.:

Client Sample ID: OC-SD-SD-501-XXX | Lab Sample ID: 480-30406-3

Matrix: Solid | Lab File ID: F4463.D

Analysis Method: 8260C | Date Collected: 12/17/2012 12:15

Sample wt/vol: 6.89(g) | Date Analyzed: 12/19/2012 18:46

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: 28.5 | Level: (low/med) Low

Analysis Batch No.: 96559 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	0.98	J	2.5	0.38
156-60-5	trans-1,2-Dichloroethene	ND		2.5	0.52
10061-02-6	trans-1,3-Dichloropropene	ND		2.5	2.2
79-01-6	Trichloroethene	ND		2.5	1.1
75-69-4	Trichlorofluoromethane	ND		5.1	0.48
75-01-4	Vinyl chloride	ND		2.5	0.62

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	90		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		70-130
460-00-4	4-Bromofluorobenzene (Surr)	88		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Client Sample ID: OC-SD-SD-501-XXX Lab Sample ID: 480-30406-3

Matrix: Solid Lab File ID: F4463.D

Analysis Method: 8260C Date Collected: 12/17/2012 12:15

Sample wt/vol: 6.89(g) Date Analyzed: 12/19/2012 18:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: 28.5 Level: (low/med) Low

Analysis Batch No.: 96559 Units: ug/Kg

Number TICs Found: 2 TIC Result Total: 21.2

CAS NO.	COMPOUND NAME	RT	RESULT	Q
556-67-2	Cyclotetrasiloxane, octamethyl-	9.54	8.2	T J N
473-19-8	Bicyclo[2.2.1]heptane, 2,2,3-trimethyl-	10.03	13	T J N

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4463.D		
Lims ID:	480-30406-I-3-A	Client ID:	OC-SD-SD-501-XXX
Inject. Date:	19-Dec-2012 18:46:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	480-30406-I-3-A		
Misc. Info.:	480-0017691-013 =480-0017691-013		
Operator:	JMB	Instrument ID:	HP5973F
Purge Vol:	5.000 mL	ALS Bottle#:	13
Lims Batch ID:	96559	Lims Sample ID:	13
Detector:	MS SCAN		
Method:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F-8260 SOIL.m		
Last Update:	20-Dec-2012 14:27:08	Calib Date:	17-Dec-2012 14:47:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F4396.D		
Limit Group:	MV - 8260MCP_RCP		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK010		
First Level Reviewer: ByrnesJ		Date:	20-Dec-2012 14:26:24

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.608	5.608	0.0	92	267592	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	75	117283	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	91	128799	50.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.304	5.304	0.0	99	41318	46.8	
$ 5 Toluene-d8 (Surr)	98	6.935	6.934	0.001	81	304672	44.9	
$ 6 4-Bromofluorobenzene (Surr)	174	9.599	9.599	0.0	92	102900	44.1	
10 Dichlorodifluoromethane	85		2.007					
12 Chloromethane	50		2.159					
13 Vinyl chloride	62		2.274					
14 Bromomethane	94		2.560					
15 Chloroethane	64		2.633					
17 Trichlorofluoromethane	101		2.858					
18 Ethyl ether	59		3.035					
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.236					
22 1,1-Dichloroethene	96		3.260					
23 Acetone	43	3.309	3.309	0.0	96	76690	118.6	
26 Carbon disulfide	76		3.473					
27 Methyl acetate	43		3.528					
30 Methylene Chloride	84		3.649					
32 Methyl tert-butyl ether	73	3.808	3.801	0.007	42	7735	1.66	
34 trans-1,2-Dichloroethene	96		3.838					
36 Isopropyl ether	45		4.130					
39 1,1-Dichloroethane	63		4.179					
41 Tert-butyl ethyl ether	59		4.416					
43 2-Butanone (MEK)	43	4.623	4.623	0.0	91	28253	27.1	
44 2,2-Dichloropropane	77		4.629					
45 cis-1,2-Dichloroethene	96		4.635					
48 Chlorobromomethane	128		4.842					
49 Tetrahydrofuran	42		4.860					
50 Chloroform	83		4.878					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
51 1,1,1-Trichloroethane	97		5.024					
52 Cyclohexane	56		5.055					
54 1,1-Dichloropropene	75		5.146					
55 Carbon tetrachloride	117		5.152					
57 Benzene	78		5.335					
56 Tert-amyl methyl ether	73	5.347	5.347	0.0	32	4238	0.7829	
58 1,2-Dichloroethane	62		5.365					
136 2,4,4-Trimethyl-1-pentene	55		5.742					
62 Trichloroethene	95		5.858					
135 2,4,4-Trimethyl-2-pentene	97		5.918					
64 Methylcyclohexane	83		5.992					
65 1,2-Dichloropropane	63		6.077					
66 1,4-Dioxane	88		6.186					
67 Dibromomethane	93		6.211					
68 Dichlorobromomethane	83		6.320					
72 cis-1,3-Dichloropropene	75		6.703					
73 4-Methyl-2-pentanone (MIBK)	43		6.801					9
74 Toluene	92	6.995	6.995	0.0	45	4577	0.9692	
77 trans-1,3-Dichloropropene	75		7.220					
79 1,1,2-Trichloroethane	83		7.415					
81 Tetrachloroethene	166		7.525					
82 1,3-Dichloropropane	76		7.585					
80 2-Hexanone	43		7.592					9
83 Chlorodibromomethane	129		7.829					
84 Ethylene Dibromide	107		7.963					
87 Chlorobenzene	112		8.413					
88 Ethylbenzene	91		8.474					
89 1,1,1,2-Tetrachloroethane	131		8.492					
90 m-Xylene & p-Xylene	106		8.589					9
91 o-Xylene	106		9.021					
92 Styrene	104		9.045					
95 Bromoform	173		9.319					
94 Isopropylbenzene	105		9.386					
97 1,1,2,2-Tetrachloroethane	83		9.757					
101 Bromobenzene	156		9.769					
100 1,2,3-Trichloropropane	110		9.812					
103 2-Chlorotoluene	126		9.928					
102 1,3,5-Trimethylbenzene	105		9.964					9
99 N-Propylbenzene	91		10.031					9
105 4-Chlorotoluene	126		10.031					
106 tert-Butylbenzene	134		10.280					
107 1,2,4-Trimethylbenzene	105	10.335	10.329	0.006	1	2542	0.3424	
109 sec-Butylbenzene	105		10.481					9
110 4-Isopropyltoluene	119		10.603					9
111 1,3-Dichlorobenzene	146		10.645					
113 1,4-Dichlorobenzene	146		10.725					
115 n-Butylbenzene	91		10.974					
116 1,2-Dichlorobenzene	146		11.065					
117 1,2-Dibromo-3-Chloropropane	75		11.741					
119 1,2,4-Trichlorobenzene	180		12.385					
120 Hexachlorobutadiene	225		12.483					
121 Naphthalene	128		12.623					9

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
122 1,2,3-Trichlorobenzene	180		12.842					

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

TestAmerica Buffalo
Tentatively Identified Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4463.D		
Lims ID:	480-30406-I-3-A	Client ID:	OC-SD-SD-501-XXX
Inject. Date:	19-Dec-2012 18:46:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	480-30406-I-3-A		
Misc. Info.:	480-0017691-013 =480-0017691-013		
Operator:	JMB	Instrument ID:	HP5973F
Purge Vol:	5.000 mL	ALS Bottle#:	13
Lims Batch ID:	96559	Lims Sample ID:	13
Detector:	MS SCAN		
Method:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F-8260 SOIL.m		
Last Update:	20-Dec-2012 14:27:08	Calib Date:	17-Dec-2012 14:47:30
Tic RT Window:	1.500 -0.000	Response:	area
Quant By:	Nearest ISTD	Quant LOD:	10.00000
MS Library:	\\Bufchrom\ChromData\Database\NIST98.L		
Min. Match:	0		
Process Host:	XAWRK010		
First Level Reviewer: ByrnesJ		Date:	20-Dec-2012 14:26:24

Tentative Identified Compound Results

RT	Response	Amount ug/kg	Quant Cpnd	Qual	Lib Entry	Flags
556-67-2	Cyclotetrasiloxane, octamethyl-					
9.538	102538	8.04	2	91	128142	
473-19-8	Bicyclo[2.2.1]heptane, 2,2,3-trimethyl-					
10.031	178808	13.0	3	90	41434	

Quantitation Compounds

Compound	RT	Response	Amount ug/kg
* 2 Chlorobenzene-d5	8.382	637427	50.0
* 3 1,4-Dichlorobenzene-d4	10.700	687817	50.0

QC Flag Legend

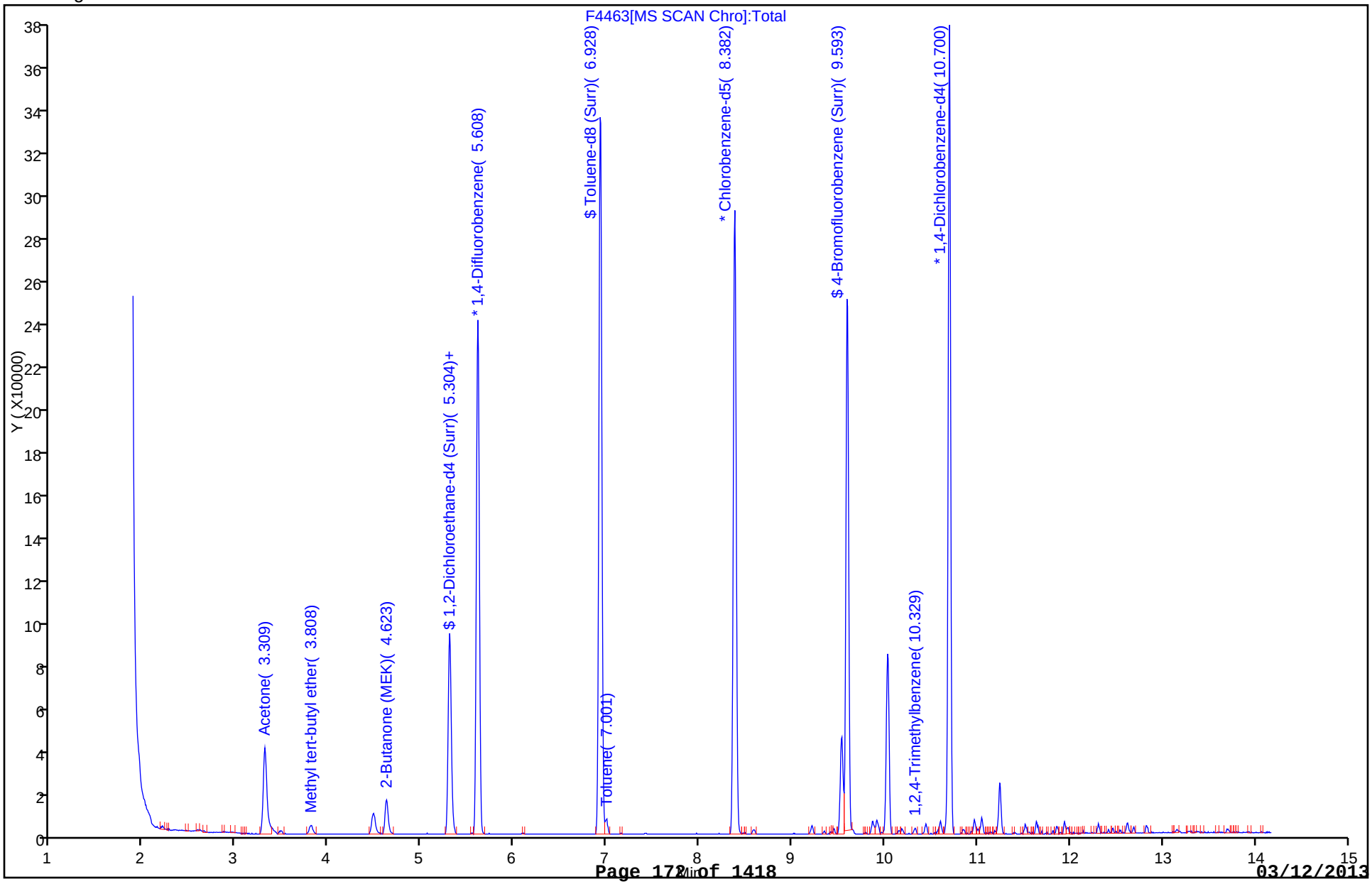
Processing Flags

Report Date: 20-Dec-2012 14:27:09 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4463.D		
Injection Date:	19-Dec-2012 18:46:30	Limit Group:	MV - 8260MCP_RCP
Client ID:	OC-SD-SD-501-XXX	Instrument ID:	HP5973F
Lims Batch ID:	96559	Lims Sample ID:	13
Operator ID:	JMB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:

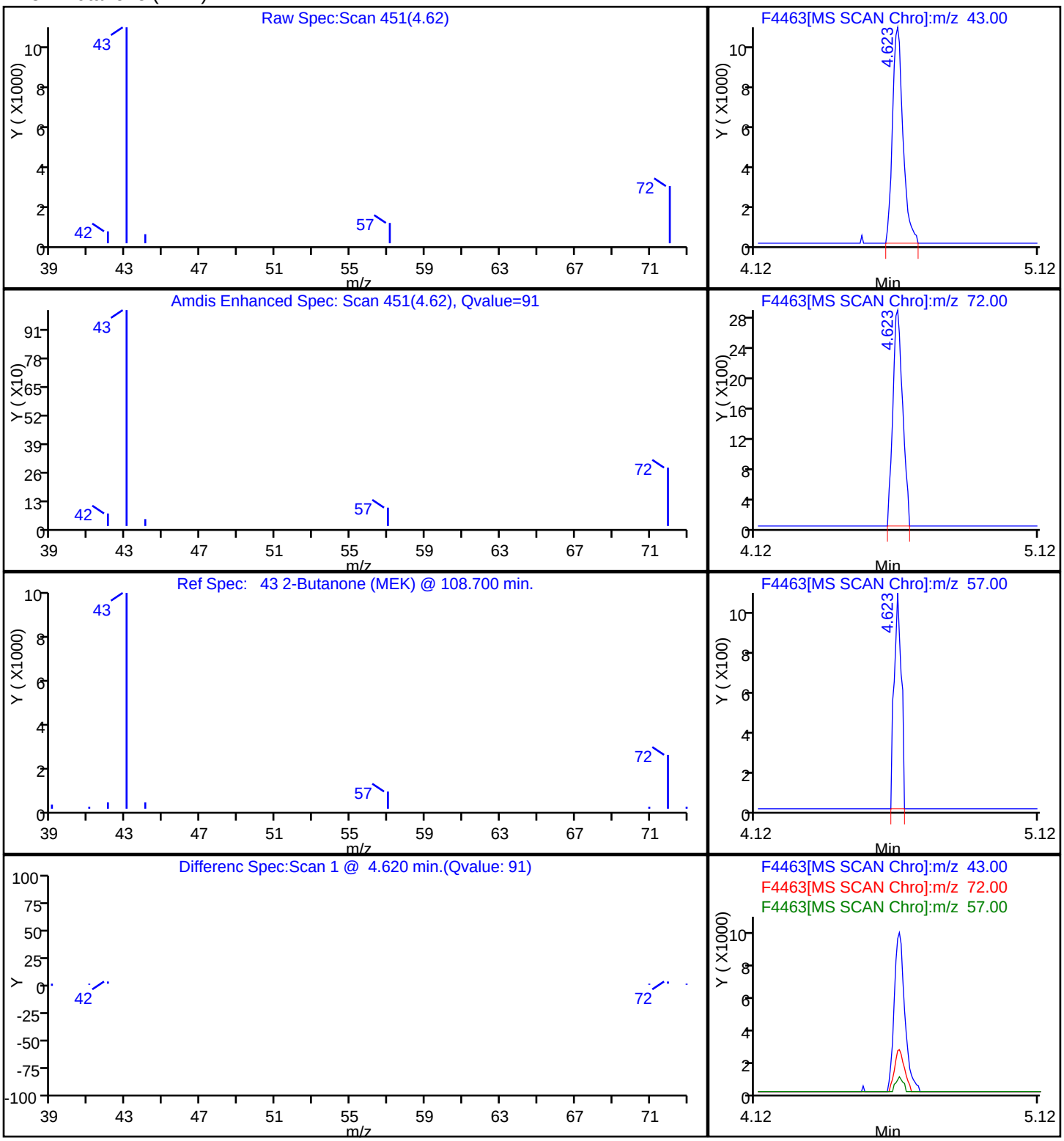


Report Date: 20-Dec-2012 14:27:09 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4463.D		
Injection Date:	19-Dec-2012 18:46:30	Limit Group:	MV - 8260MCP_RCP
Client ID:	OC-SD-SD-501-XXX	Instrument ID:	HP5973F
Lims Batch ID:	96559	Lims Sample ID:	13
Operator ID:	JMB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

43 2-Butanone (MEK)

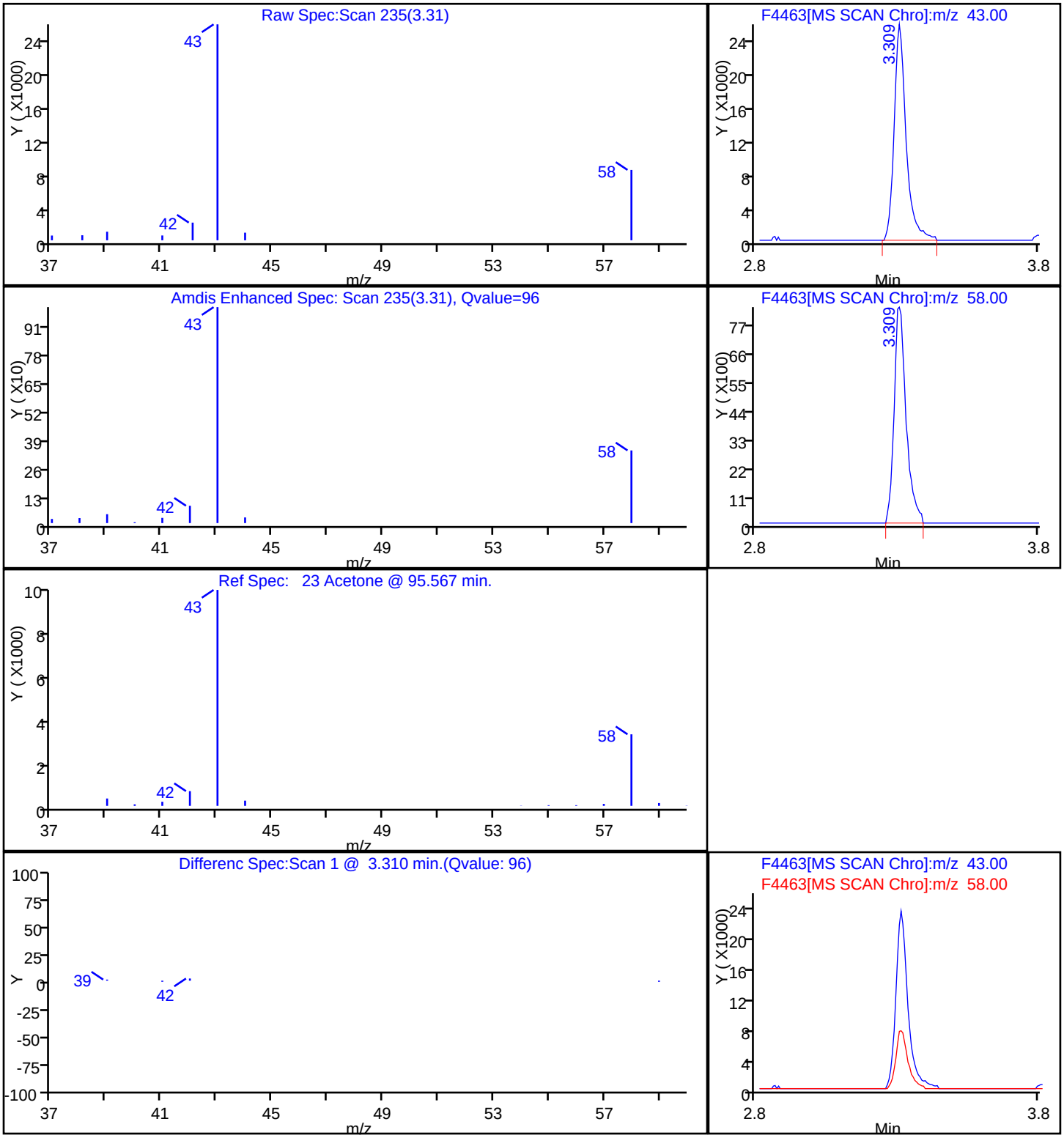


Report Date: 20-Dec-2012 14:27:09 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4463.D		
Injection Date:	19-Dec-2012 18:46:30	Limit Group:	MV - 8260MCP_RCP
Client ID:	OC-SD-SD-501-XXX	Instrument ID:	HP5973F
Lims Batch ID:	96559	Lims Sample ID:	13
Operator ID:	JMB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

23 Acetone



Report Date: 20-Dec-2012 14:27:09 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

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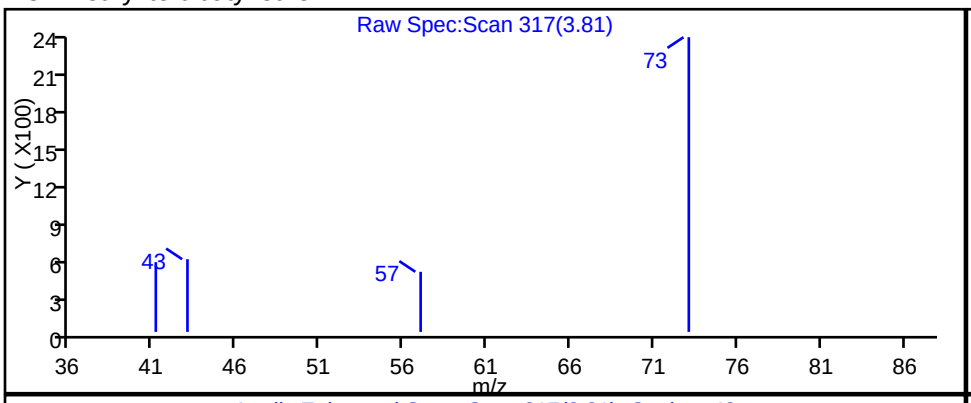
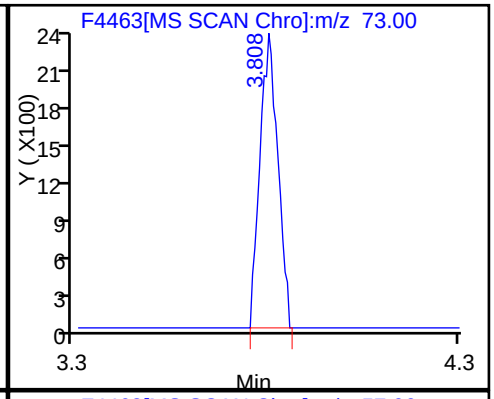
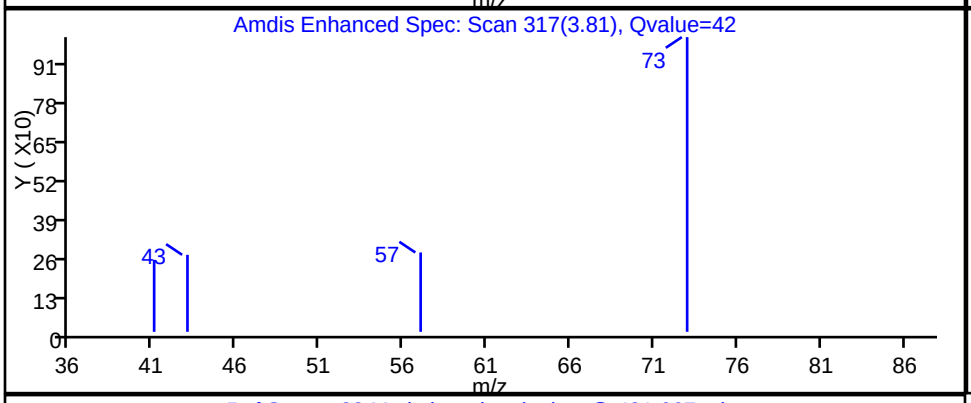
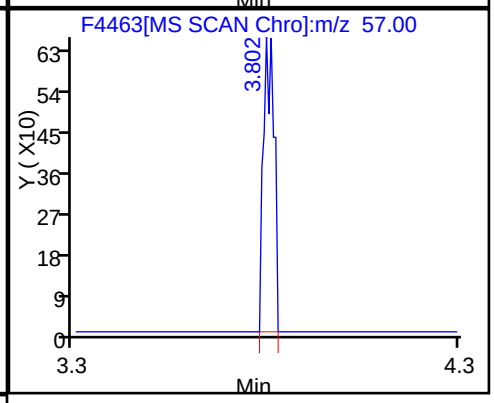
Injection Date:	19-Dec-2012 18:46:30	Limit Group:	MV - 8260MCP_RCP
Client ID:	OC-SD-SD-501-XXX	Instrument ID:	HP5973F
Lims Batch ID:	96559	Lims Sample ID:	13
Operator ID:	JMB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

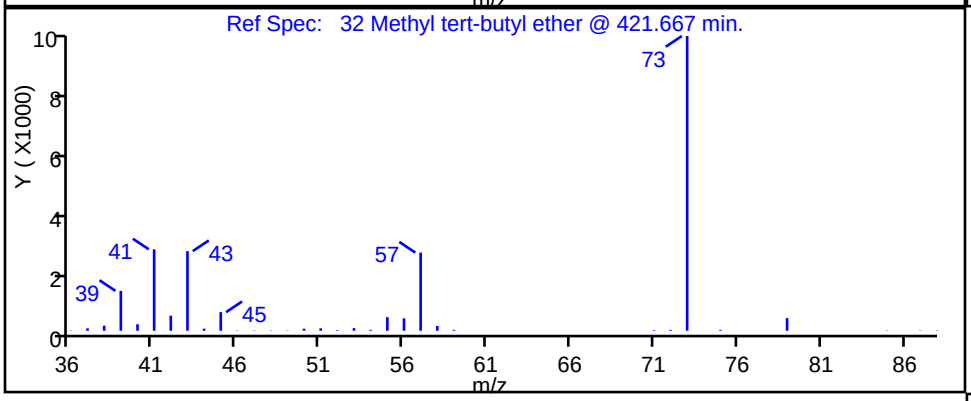
32 Methyl tert-butyl ether

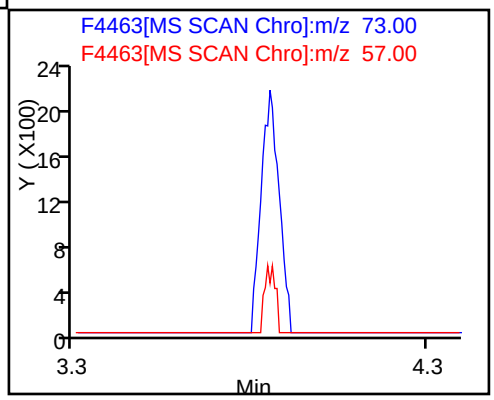










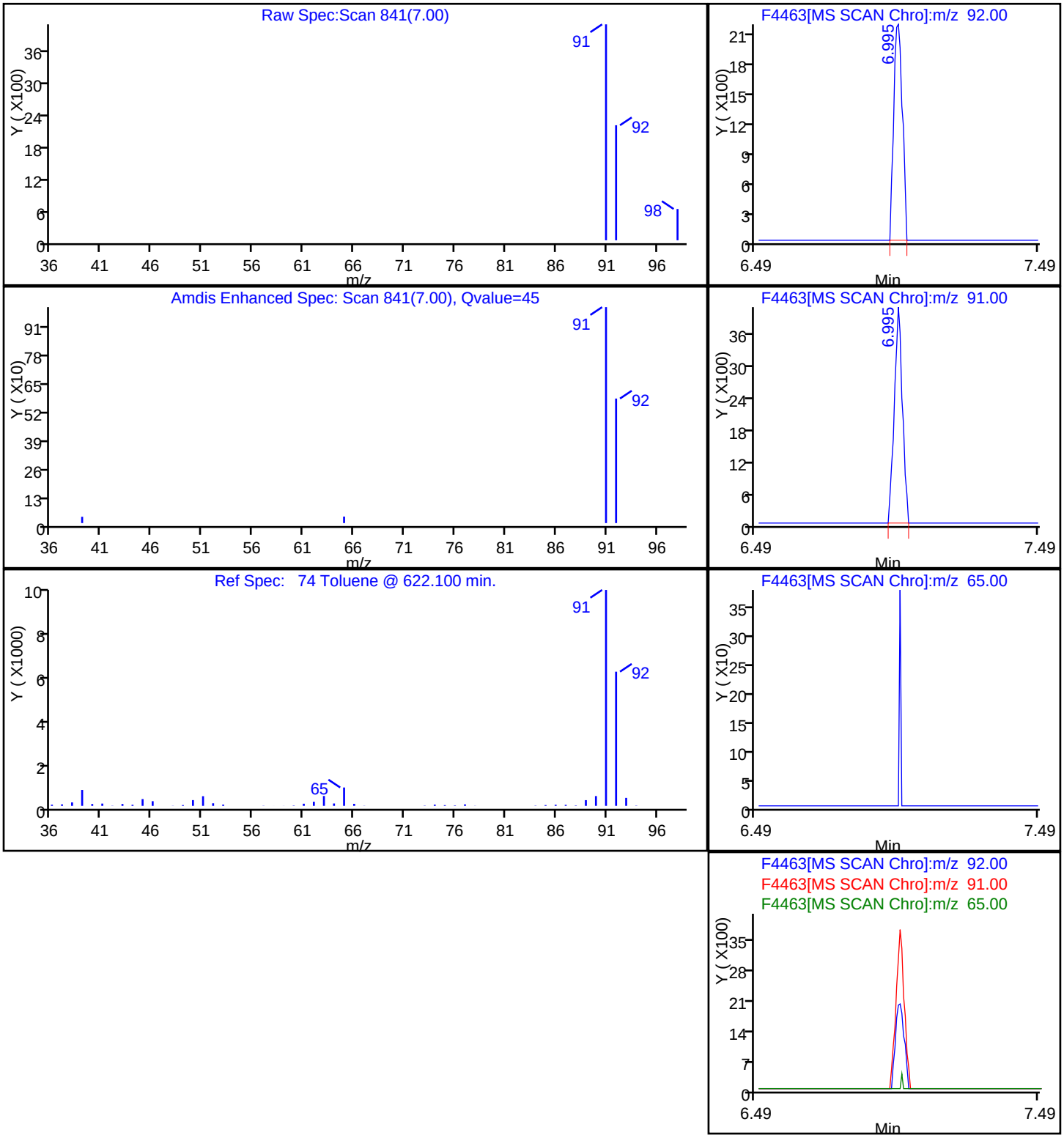


Report Date: 20-Dec-2012 14:27:09 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4463.D		
Injection Date:	19-Dec-2012 18:46:30	Limit Group:	MV - 8260MCP_RCP
Client ID:	OC-SD-SD-501-XXX	Instrument ID:	HP5973F
Lims Batch ID:	96559	Lims Sample ID:	13
Operator ID:	JMB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

74 Toluene

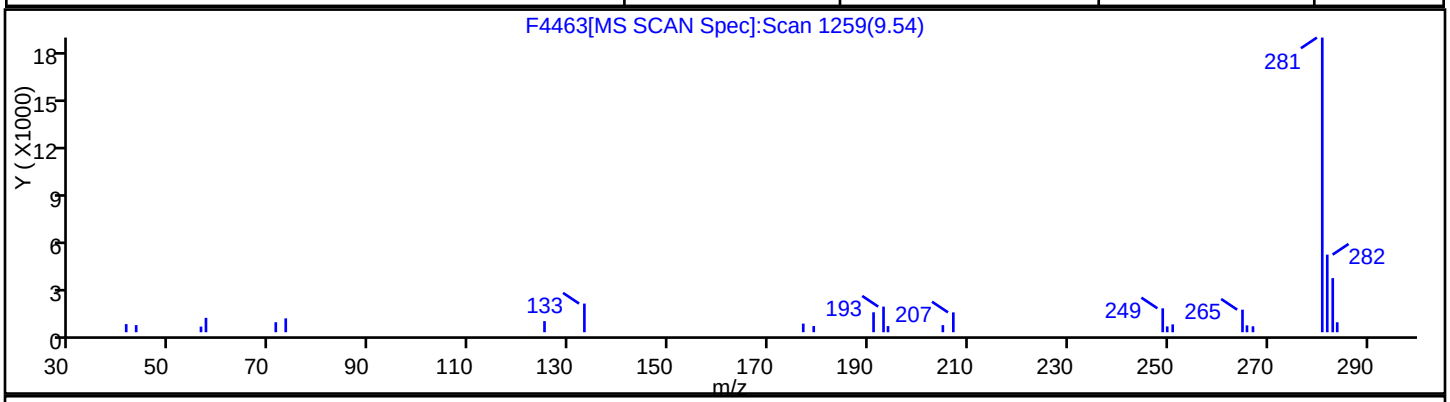


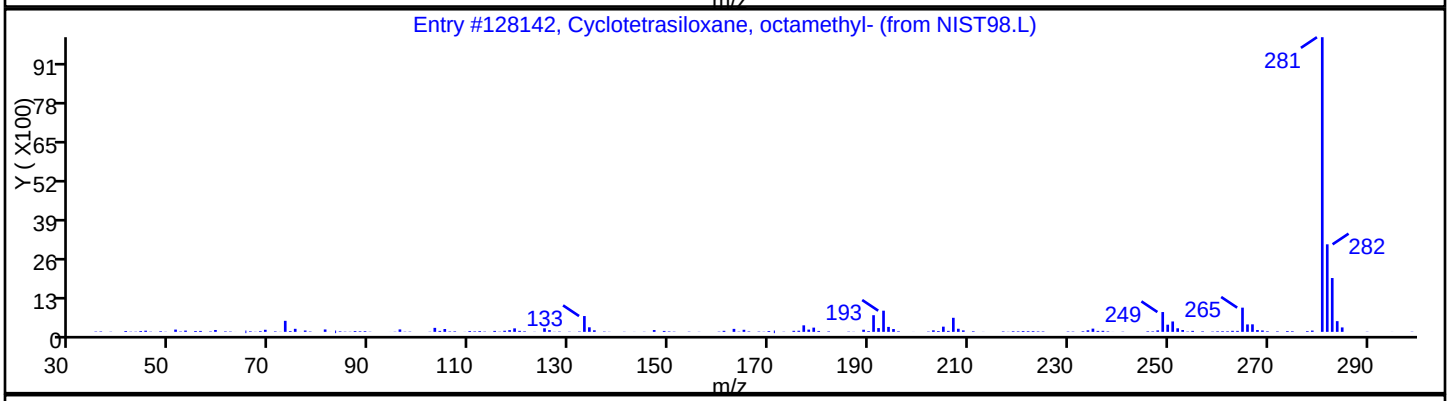
Report Date: 20-Dec-2012 14:27:09 Chrom Revision: 2.0 22-Oct-2012 16:30:48

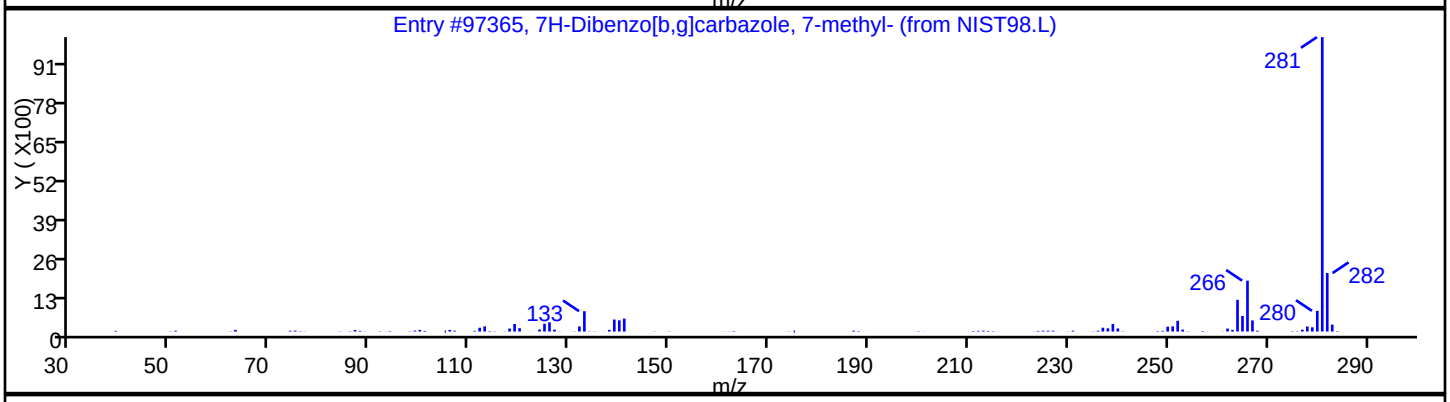
TestAmerica Buffalo

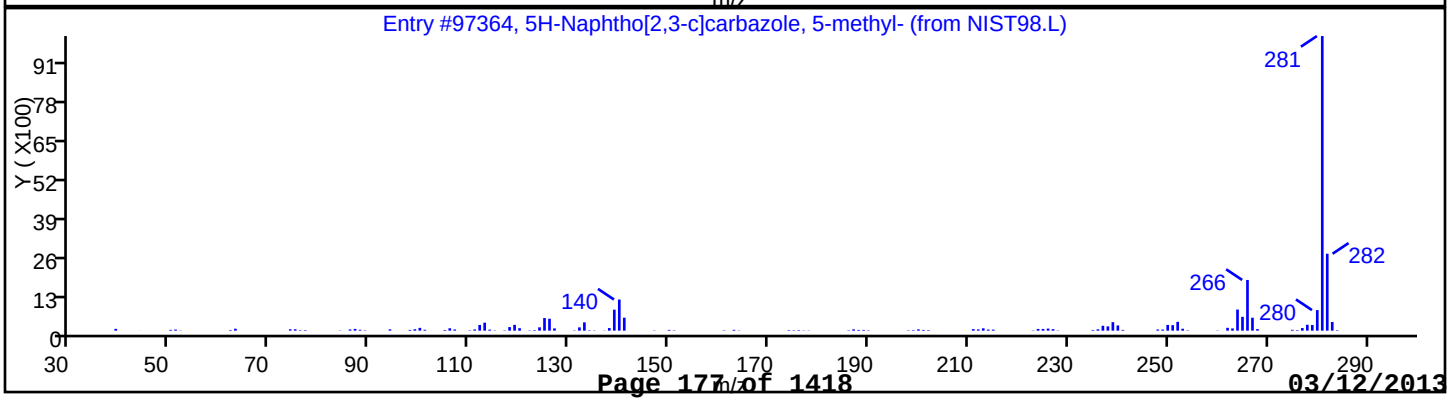
Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4463.D		
Injection Date:	19-Dec-2012 18:46:30	Limit Group:	MV - 8260MCP_RCP
Client ID:	OC-SD-SD-501-XXX	Instrument ID:	HP5973F
Lims Batch ID:	96559	Lims Sample ID:	13
Operator ID:	JMB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Cyclotetrasiloxane, octamethyl-	556-67-2	NIST98.L	128142	91
7H-Dibenzo[b,g]carbazole, 7-methyl-	3557-49-1	NIST98.L	97365	72
5H-Naphtho[2,3-c]carbazole, 5-methyl-	100025-44-3	NIST98.L	97364	64







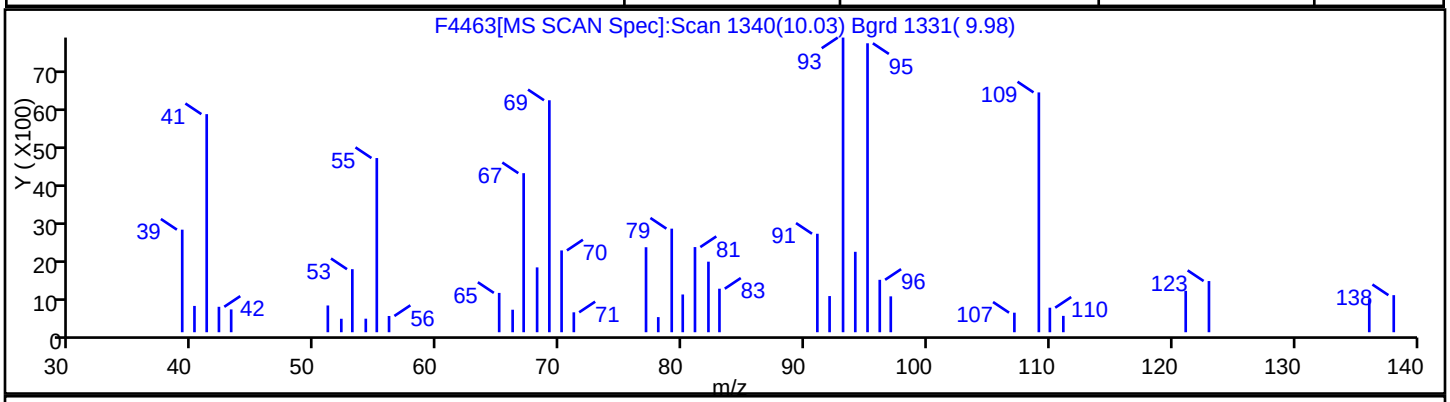


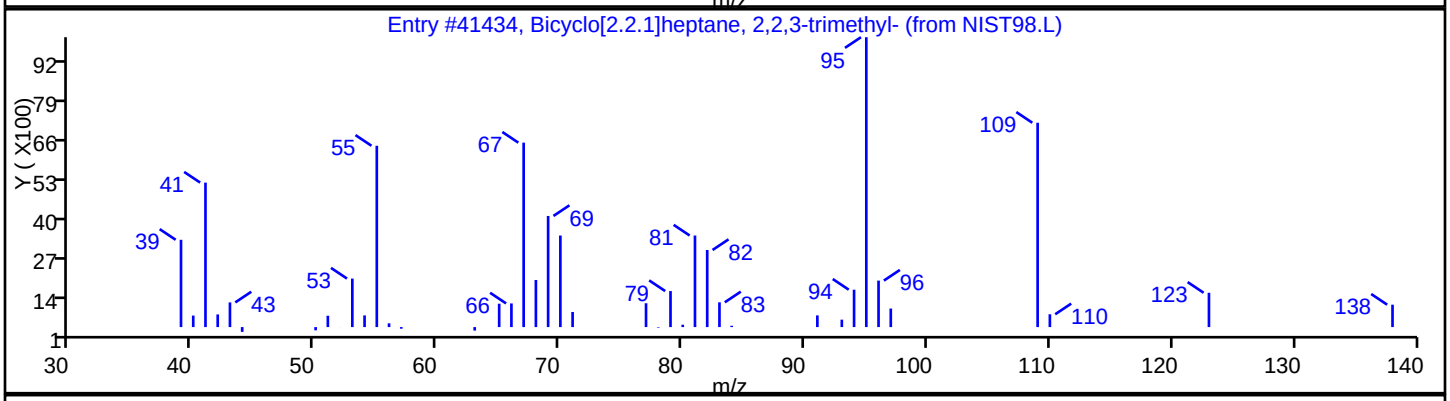
Report Date: 20-Dec-2012 14:27:09 Chrom Revision: 2.0 22-Oct-2012 16:30:48

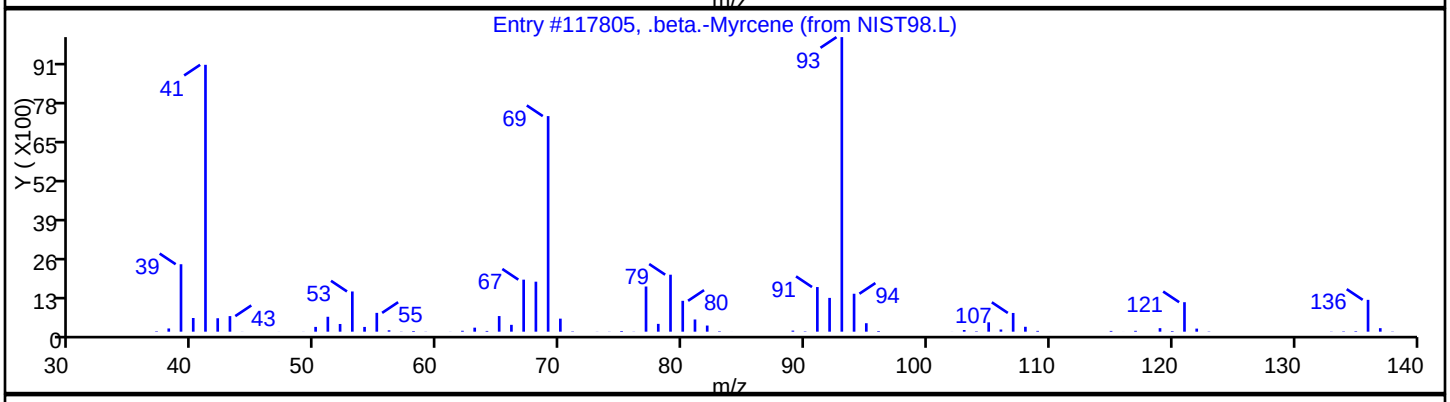
TestAmerica Buffalo

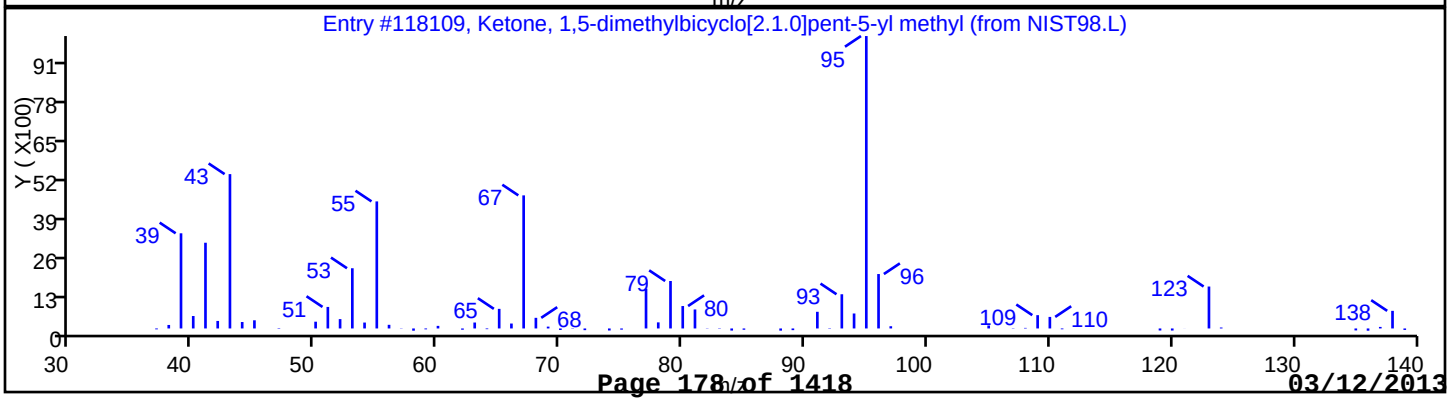
Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4463.D		
Injection Date:	19-Dec-2012 18:46:30	Limit Group:	MV - 8260MCP_RCP
Client ID:	OC-SD-SD-501-XXX	Instrument ID:	HP5973F
Lims Batch ID:	96559	Lims Sample ID:	13
Operator ID:	JMB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Bicyclo[2.2.1]heptane, 2,2,3-trimethyl-	473-19-8	NIST98.L	41434	90
.beta.-Myrcene	123-35-3	NIST98.L	117805	46
Ketone, 1,5-dimethylbicyclo[2.1.0]pent-5	24081-57-0	NIST98.L	118109	38









FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-30406-1

SDG No.:

Client Sample ID: OC-SD-SD-502-XXX | Lab Sample ID: 480-30406-4

Matrix: Solid | Lab File ID: F4464.D

Analysis Method: 8260C | Date Collected: 12/17/2012 12:45

Sample wt/vol: 6.25(g) | Date Analyzed: 12/19/2012 19:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: 30.6 | Level: (low/med) Low

Analysis Batch No.: 96559 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		2.9	0.58
71-55-6	1,1,1-Trichloroethane	ND		2.9	0.42
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.9	0.93
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.9	1.3
79-00-5	1,1,2-Trichloroethane	ND		2.9	0.75
75-34-3	1,1-Dichloroethane	ND		2.9	0.70
75-35-4	1,1-Dichloroethene	ND		2.9	0.71
563-58-6	1,1-Dichloropropene	ND		2.9	0.82
87-61-6	1,2,3-Trichlorobenzene	ND		2.9	0.61
96-18-4	1,2,3-Trichloropropane	ND		2.9	0.59
120-82-1	1,2,4-Trichlorobenzene	ND		2.9	0.35
95-63-6	1,2,4-Trimethylbenzene	ND		2.9	1.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		29	2.9
95-50-1	1,2-Dichlorobenzene	ND		2.9	0.45
107-06-2	1,2-Dichloroethane	ND		2.9	0.29
78-87-5	1,2-Dichloropropane	ND		2.9	2.9
108-67-8	1,3,5-Trimethylbenzene	ND		2.9	0.37
541-73-1	1,3-Dichlorobenzene	ND		2.9	0.30
142-28-9	1,3-Dichloropropane	ND		2.9	0.35
106-46-7	1,4-Dichlorobenzene	ND		2.9	0.81
123-91-1	1,4-Dioxane	ND		290	28
594-20-7	2,2-Dichloropropane	ND		2.9	0.98
107-39-1	2,4,4-Trimethyl-1-pentene	11		5.8	0.50
107-40-4	2,4,4-Trimethyl-2-pentene	8.8		5.8	0.61
78-93-3	2-Butanone (MEK)	25	J	29	2.1
95-49-8	2-Chlorotoluene	ND		2.9	0.38
591-78-6	2-Hexanone	ND		29	2.9
106-43-4	4-Chlorotoluene	ND		2.9	0.68
99-87-6	4-Isopropyltoluene	ND		2.9	0.46
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		29	1.9
67-64-1	Acetone	110	J	290	4.9
71-43-2	Benzene	ND		2.9	0.28
108-86-1	Bromobenzene	ND		2.9	1.0
75-25-2	Bromoform	ND		2.9	2.9
74-83-9	Bromomethane	ND	*	5.8	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-30406-1

SDG No.:

Client Sample ID: OC-SD-SD-502-XXX | Lab Sample ID: 480-30406-4

Matrix: Solid | Lab File ID: F4464.D

Analysis Method: 8260C | Date Collected: 12/17/2012 12:45

Sample wt/vol: 6.25(g) | Date Analyzed: 12/19/2012 19:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: 30.6 | Level: (low/med) Low

Analysis Batch No.: 96559 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-15-0	Carbon disulfide	ND		2.9	2.9
56-23-5	Carbon tetrachloride	ND		2.9	0.56
108-90-7	Chlorobenzene	ND		2.9	0.76
74-97-5	Chlorobromomethane	ND		2.9	0.42
124-48-1	Chlorodibromomethane	ND		2.9	0.74
75-00-3	Chloroethane	ND		5.8	1.3
67-66-3	Chloroform	ND		2.9	0.36
74-87-3	Chloromethane	ND		5.8	0.35
156-59-2	cis-1,2-Dichloroethene	ND		2.9	0.74
10061-01-5	cis-1,3-Dichloropropene	ND		2.9	0.83
110-82-7	Cyclohexane	ND		29	0.81
74-95-3	Dibromomethane	ND		2.9	0.59
75-27-4	Dichlorobromomethane	ND		2.9	0.77
75-71-8	Dichlorodifluoromethane	ND		5.8	0.48
60-29-7	Ethyl ether	ND		2.9	2.4
100-41-4	Ethylbenzene	ND		2.9	0.40
106-93-4	Ethylene Dibromide	ND		2.9	0.74
87-68-3	Hexachlorobutadiene	ND		2.9	0.68
108-20-3	Isopropyl ether	ND		2.9	2.9
98-82-8	Isopropylbenzene	ND		2.9	0.87
79-20-9	Methyl acetate	ND		58	1.1
1634-04-4	Methyl tert-butyl ether	ND		2.9	0.57
108-87-2	Methylcyclohexane	ND		2.9	0.88
75-09-2	Methylene Chloride	ND		2.9	2.7
179601-23-1	m-Xylene & p-Xylene	ND		5.8	0.97
91-20-3	Naphthalene	ND		29	0.77
104-51-8	n-Butylbenzene	ND		2.9	0.50
103-65-1	N-Propylbenzene	ND		2.9	0.46
95-47-6	o-Xylene	ND		2.9	0.75
135-98-8	sec-Butylbenzene	ND		2.9	0.50
100-42-5	Styrene	ND		2.9	0.29
994-05-8	Tert-amyl methyl ether	ND		2.9	1.5
637-92-3	Tert-butyl ethyl ether	ND		2.9	2.5
98-06-6	tert-Butylbenzene	ND		2.9	0.60
127-18-4	Tetrachloroethene	ND		2.9	0.77
109-99-9	Tetrahydrofuran	ND		58	5.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-30406-1

SDG No.:

Client Sample ID: OC-SD-SD-502-XXX | Lab Sample ID: 480-30406-4

Matrix: Solid | Lab File ID: F4464.D

Analysis Method: 8260C | Date Collected: 12/17/2012 12:45

Sample wt/vol: 6.25(g) | Date Analyzed: 12/19/2012 19:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: 30.6 | Level: (low/med) Low

Analysis Batch No.: 96559 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		2.9	0.44
156-60-5	trans-1,2-Dichloroethene	ND		2.9	0.59
10061-02-6	trans-1,3-Dichloropropene	ND		2.9	2.5
79-01-6	Trichloroethene	ND		2.9	1.3
75-69-4	Trichlorofluoromethane	ND		5.8	0.55
75-01-4	Vinyl chloride	ND		2.9	0.70

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	92		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		70-130
460-00-4	4-Bromofluorobenzene (Surr)	90		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Client Sample ID: OC-SD-SD-502-XXX Lab Sample ID: 480-30406-4

Matrix: Solid Lab File ID: F4464.D

Analysis Method: 8260C Date Collected: 12/17/2012 12:45

Sample wt/vol: 6.25(g) Date Analyzed: 12/19/2012 19:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: 30.6 Level: (low/med) Low

Analysis Batch No.: 96559 Units: ug/Kg

Number TICs Found: 2 TIC Result Total: 13.6

CAS NO.	COMPOUND NAME	RT	RESULT	Q
1066-40-6	Silanol, trimethyl-	4.48	6.6	T J N
473-19-8	Bicyclo[2.2.1]heptane, 2,2,3-trimethyl-	10.03	7.0	T J N

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4464.D		
Lims ID:	480-30406-I-4-A	Client ID:	OC-SD-SD-502-XXX
Inject. Date:	19-Dec-2012 19:11:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	480-30406-I-4-A		
Misc. Info.:	480-0017691-014 =480-0017691-014		
Operator:	JMB	Instrument ID:	HP5973F
Purge Vol:	5.000 mL	ALS Bottle#:	14
Lims Batch ID:	96559	Lims Sample ID:	14
Detector:	MS SCAN		
Method:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F-8260 SOIL.m		
Last Update:	20-Dec-2012 14:27:08	Calib Date:	17-Dec-2012 14:47:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F4396.D		
Limit Group:	MV - 8260MCP_RCP		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK010		

First Level Reviewer: ByrnesJ Date: 20-Dec-2012 14:27:02

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.608	5.608	0.0	91	260380	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	77	112258	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	90	125080	50.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.310	5.304	0.006	99	40447	47.1	
$ 5 Toluene-d8 (Surr)	98	6.935	6.934	0.001	90	297543	45.8	
$ 6 4-Bromofluorobenzene (Surr)	174	9.599	9.599	0.0	93	100360	44.9	
10 Dichlorodifluoromethane	85		2.007					
12 Chloromethane	50		2.159					
13 Vinyl chloride	62		2.274					
14 Bromomethane	94		2.560					
15 Chloroethane	64		2.633					
17 Trichlorofluoromethane	101		2.858					
18 Ethyl ether	59		3.035					
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.236					
22 1,1-Dichloroethene	96		3.260					
23 Acetone	43	3.315	3.309	0.006	95	61209	97.3	
26 Carbon disulfide	76		3.473					
27 Methyl acetate	43		3.528					
30 Methylene Chloride	84		3.649					
32 Methyl tert-butyl ether	73		3.801					
34 trans-1,2-Dichloroethene	96		3.838					
36 Isopropyl ether	45		4.130					
39 1,1-Dichloroethane	63		4.179					
41 Tert-butyl ethyl ether	59		4.416					
43 2-Butanone (MEK)	43	4.623	4.623	0.0	91	22239	21.9	
44 2,2-Dichloropropane	77		4.629					9
45 cis-1,2-Dichloroethene	96		4.635					
48 Chlorobromomethane	128		4.842					
49 Tetrahydrofuran	42		4.860					
50 Chloroform	83		4.878					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
51 1,1,1-Trichloroethane	97		5.024					
52 Cyclohexane	56		5.055					
54 1,1-Dichloropropene	75		5.146					
55 Carbon tetrachloride	117		5.152					
57 Benzene	78		5.335					
56 Tert-amyl methyl ether	73		5.347					
58 1,2-Dichloroethane	62		5.365					
136 2,4,4-Trimethyl-1-pentene	55	5.736	5.742	-0.006	0	18542	9.56	
62 Trichloroethene	95		5.858					
135 2,4,4-Trimethyl-2-pentene	97	5.919	5.918	0.001	0	31168	7.63	
64 Methylcyclohexane	83		5.992					
65 1,2-Dichloropropane	63		6.077					
66 1,4-Dioxane	88		6.186					
67 Dibromomethane	93		6.211					
68 Dichlorobromomethane	83		6.320					9
72 cis-1,3-Dichloropropene	75		6.703					
73 4-Methyl-2-pentanone (MIBK)	43		6.801					9
74 Toluene	92		6.995					9
77 trans-1,3-Dichloropropene	75		7.220					
79 1,1,2-Trichloroethane	83		7.415					
81 Tetrachloroethene	166		7.525					
82 1,3-Dichloropropane	76		7.585					
80 2-Hexanone	43		7.592					9
83 Chlorodibromomethane	129		7.829					
84 Ethylene Dibromide	107		7.963					
87 Chlorobenzene	112		8.413					
88 Ethylbenzene	91		8.474					
89 1,1,1,2-Tetrachloroethane	131		8.492					
90 m-Xylene & p-Xylene	106		8.589					9
91 o-Xylene	106		9.021					
92 Styrene	104		9.045					
95 Bromoform	173		9.319					
94 Isopropylbenzene	105		9.386					
97 1,1,2,2-Tetrachloroethane	83		9.757					
101 Bromobenzene	156		9.769					
100 1,2,3-Trichloropropane	110		9.812					
103 2-Chlorotoluene	126		9.928					
102 1,3,5-Trimethylbenzene	105		9.964					9
99 N-Propylbenzene	91		10.031					9
105 4-Chlorotoluene	126		10.031					
106 tert-Butylbenzene	134		10.280					
107 1,2,4-Trimethylbenzene	105	10.335	10.329	0.006	1	2486	0.3448	
109 sec-Butylbenzene	105		10.481					9
110 4-Isopropyltoluene	119		10.603					9
111 1,3-Dichlorobenzene	146		10.645					
113 1,4-Dichlorobenzene	146		10.725					
115 n-Butylbenzene	91		10.974					
116 1,2-Dichlorobenzene	146		11.065					
117 1,2-Dibromo-3-Chloropropane	75		11.741					
119 1,2,4-Trichlorobenzene	180		12.385					
120 Hexachlorobutadiene	225		12.483					
121 Naphthalene	128		12.623					9

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
122 1,2,3-Trichlorobenzene	180		12.842					

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

TestAmerica Buffalo
Tentatively Identified Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4464.D		
Lims ID:	480-30406-I-4-A	Client ID:	OC-SD-SD-502-XXX
Inject. Date:	19-Dec-2012 19:11:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	480-30406-I-4-A		
Misc. Info.:	480-0017691-014 =480-0017691-014		
Operator:	JMB	Instrument ID:	HP5973F
Purge Vol:	5.000 mL	ALS Bottle#:	14
Lims Batch ID:	96559	Lims Sample ID:	14
Detector:	MS SCAN		
Method:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F-8260 SOIL.m		
Last Update:	20-Dec-2012 14:27:08	Calib Date:	17-Dec-2012 14:47:30
Tic RT Window:	1.500 -0.000	Response:	area
Quant By:	Nearest ISTD	Quant LOD:	10.00000
MS Library:	\\Bufchrom\ChromData\Database\NIST98.L		
Min. Match:	0		
Process Host:	XAWRK010		
First Level Reviewer: ByrnesJ		Date:	20-Dec-2012 14:27:02

Tentative Identified Compound Results

RT	Response	Amount ug/kg	Quant Cpnd	Qual	Lib Entry	Flags
1066-40-6	Silanol, trimethyl-					
4.483	59582	5.72	1	9	115532	
473-19-8	Bicyclo[2.2.1]heptane, 2,2,3-trimethyl-					
10.031	79786	6.06	3	95	41434	

Quantitation Compounds

Compound	RT	Response	Amount ug/kg
* 1 1,4-Difluorobenzene	5.608	521220	50.0
* 3 1,4-Dichlorobenzene-d4	10.700	658047	50.0

QC Flag Legend

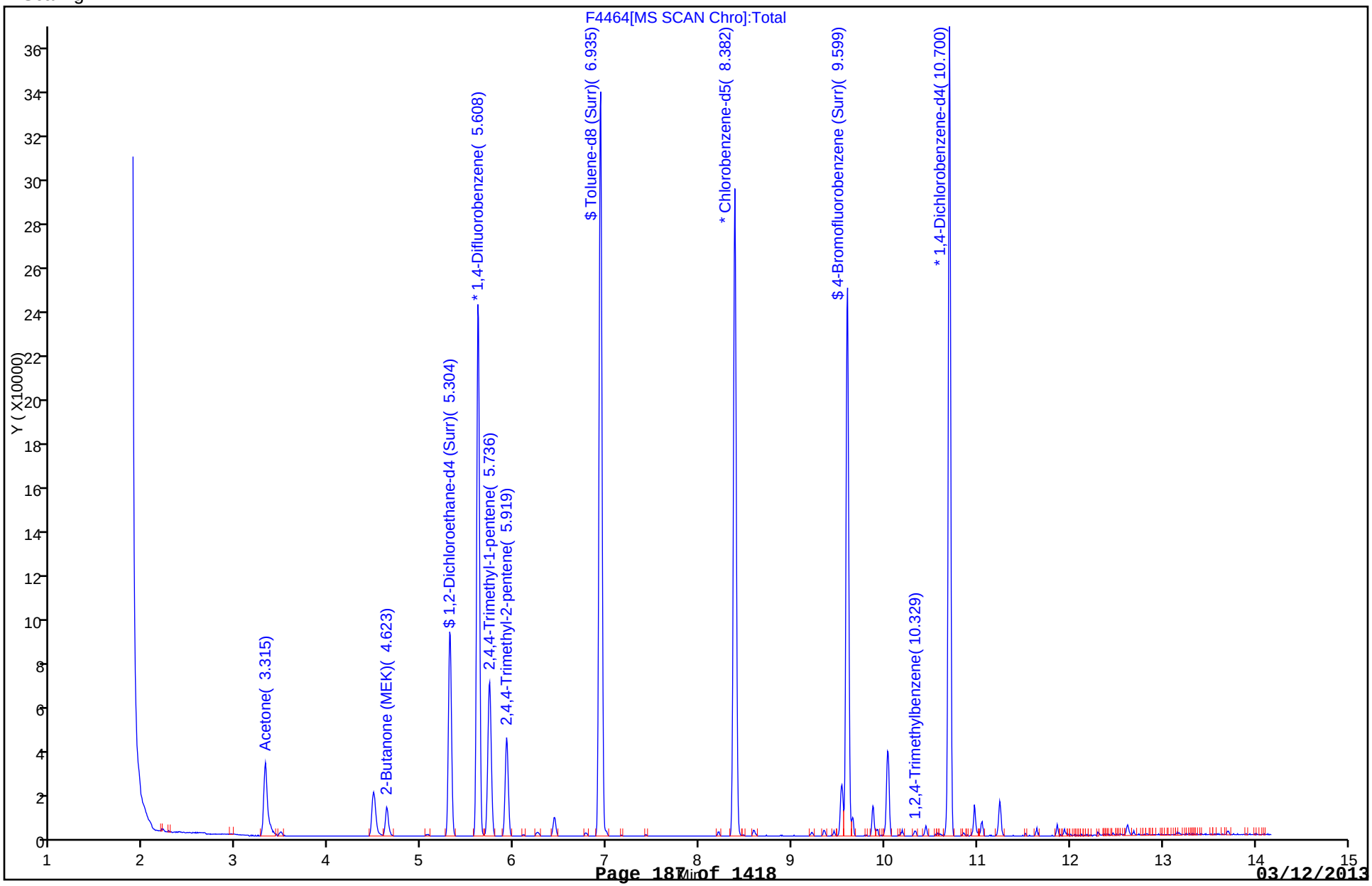
Processing Flags

Report Date: 20-Dec-2012 14:27:08 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4464.D		
Injection Date:	19-Dec-2012 19:11:30	Limit Group:	MV - 8260MCP_RCP
Client ID:	OC-SD-SD-502-XXX	Instrument ID:	HP5973F
Lims Batch ID:	96559	Lims Sample ID:	14
Operator ID:	JMB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:

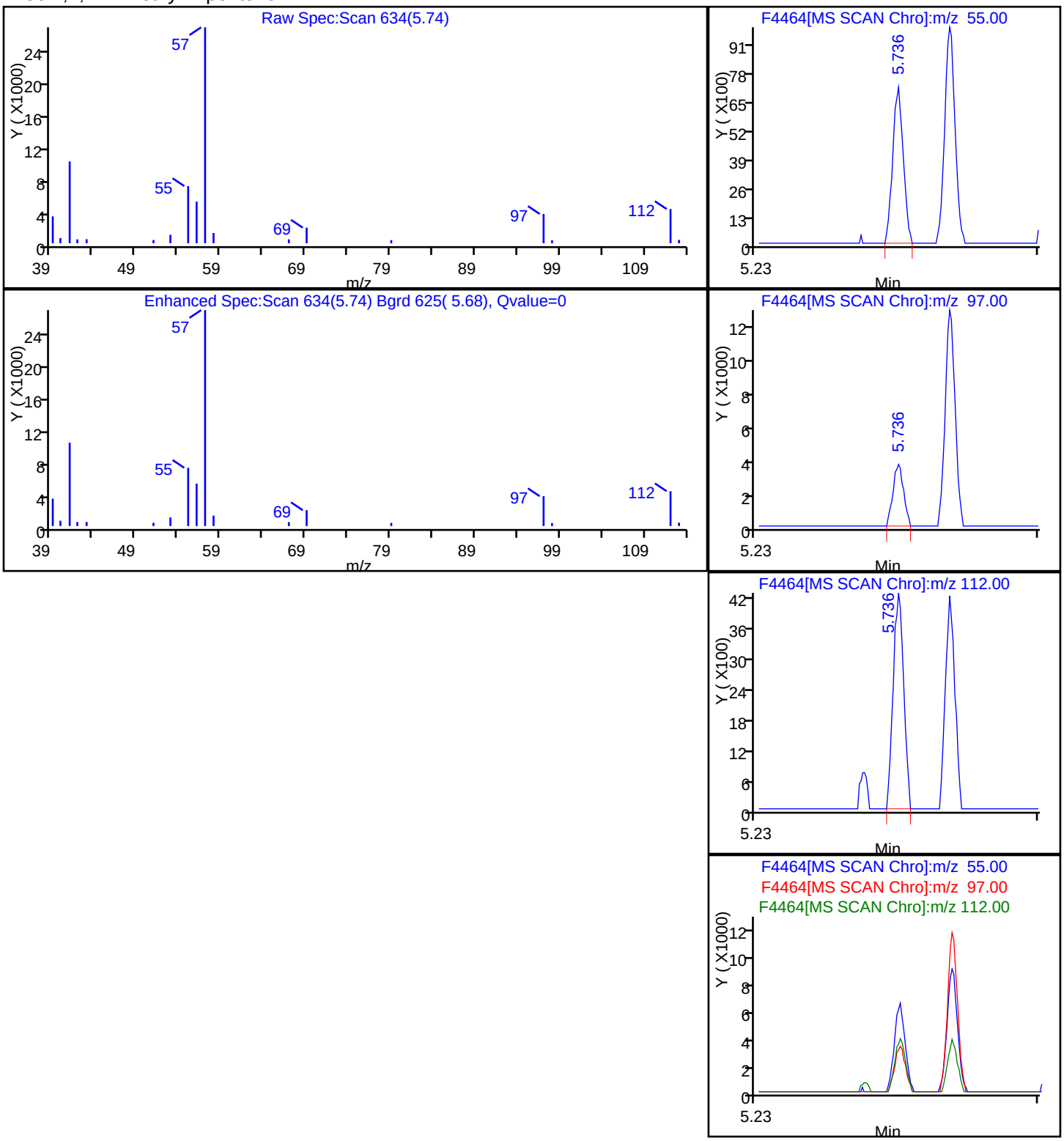


Report Date: 20-Dec-2012 14:27:08 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4464.D		
Injection Date:	19-Dec-2012 19:11:30	Limit Group:	MV - 8260MCP_RCP
Client ID:	OC-SD-SD-502-XXX	Instrument ID:	HP5973F
Lims Batch ID:	96559	Lims Sample ID:	14
Operator ID:	JMB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

136 2,4,4-Trimethyl-1-pentene

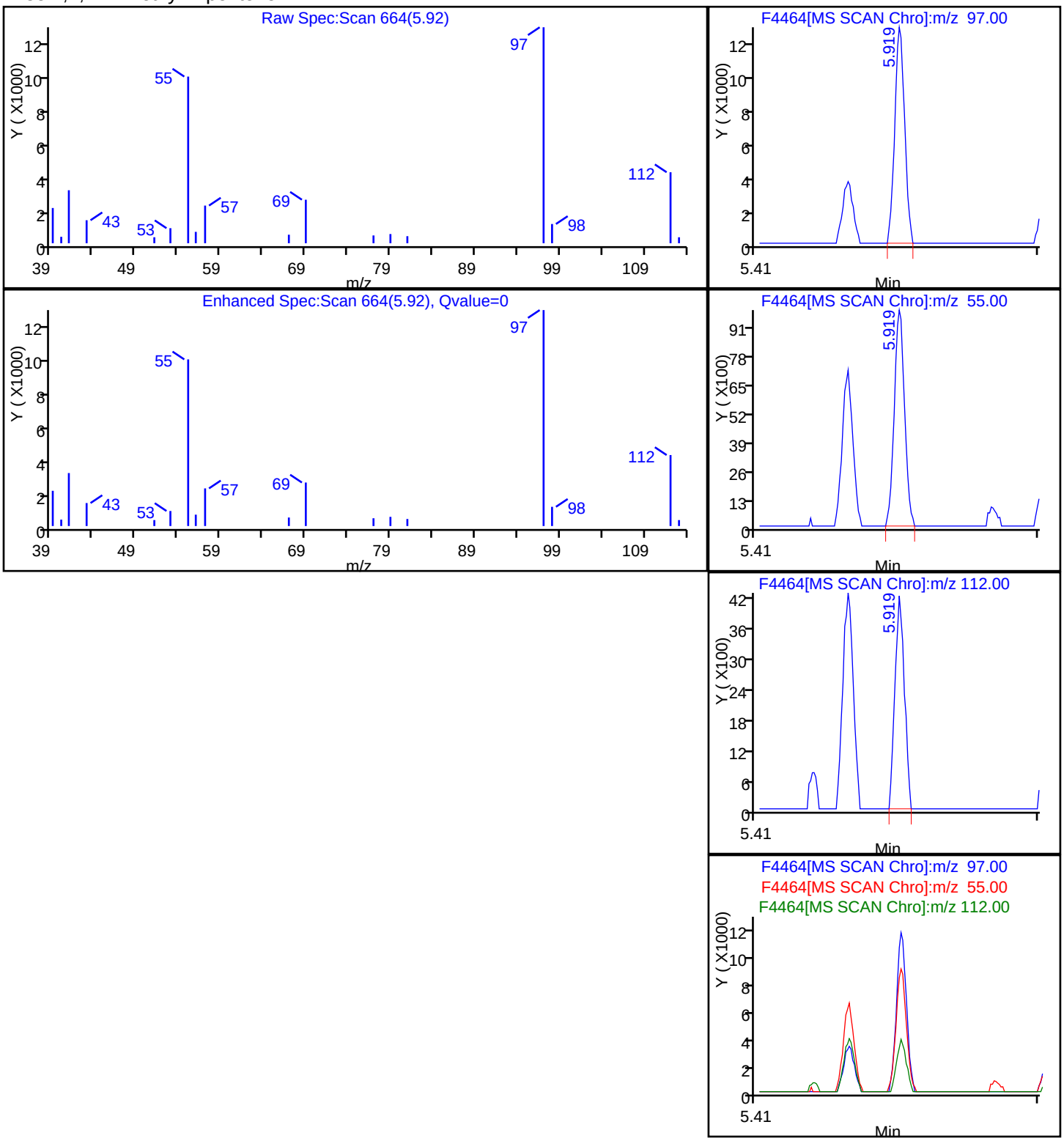


Report Date: 20-Dec-2012 14:27:08 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4464.D		
Injection Date:	19-Dec-2012 19:11:30	Limit Group:	MV - 8260MCP_RCP
Client ID:	OC-SD-SD-502-XXX	Instrument ID:	HP5973F
Lims Batch ID:	96559	Lims Sample ID:	14
Operator ID:	JMB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

135 2,4,4-Trimethyl-2-pentene

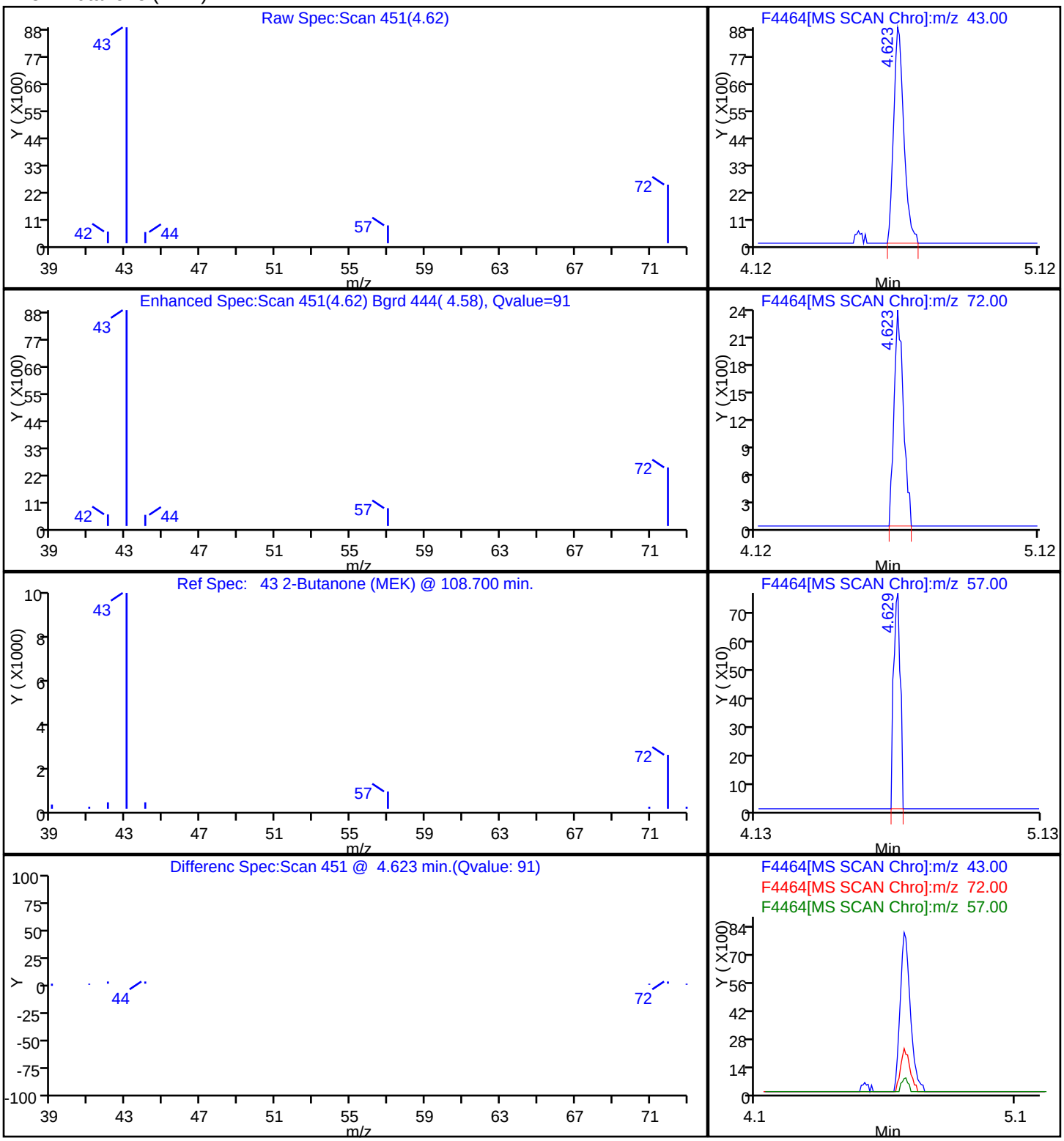


Report Date: 20-Dec-2012 14:27:08 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4464.D		
Injection Date:	19-Dec-2012 19:11:30	Limit Group:	MV - 8260MCP_RCP
Client ID:	OC-SD-SD-502-XXX	Instrument ID:	HP5973F
Lims Batch ID:	96559	Lims Sample ID:	14
Operator ID:	JMB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

43 2-Butanone (MEK)

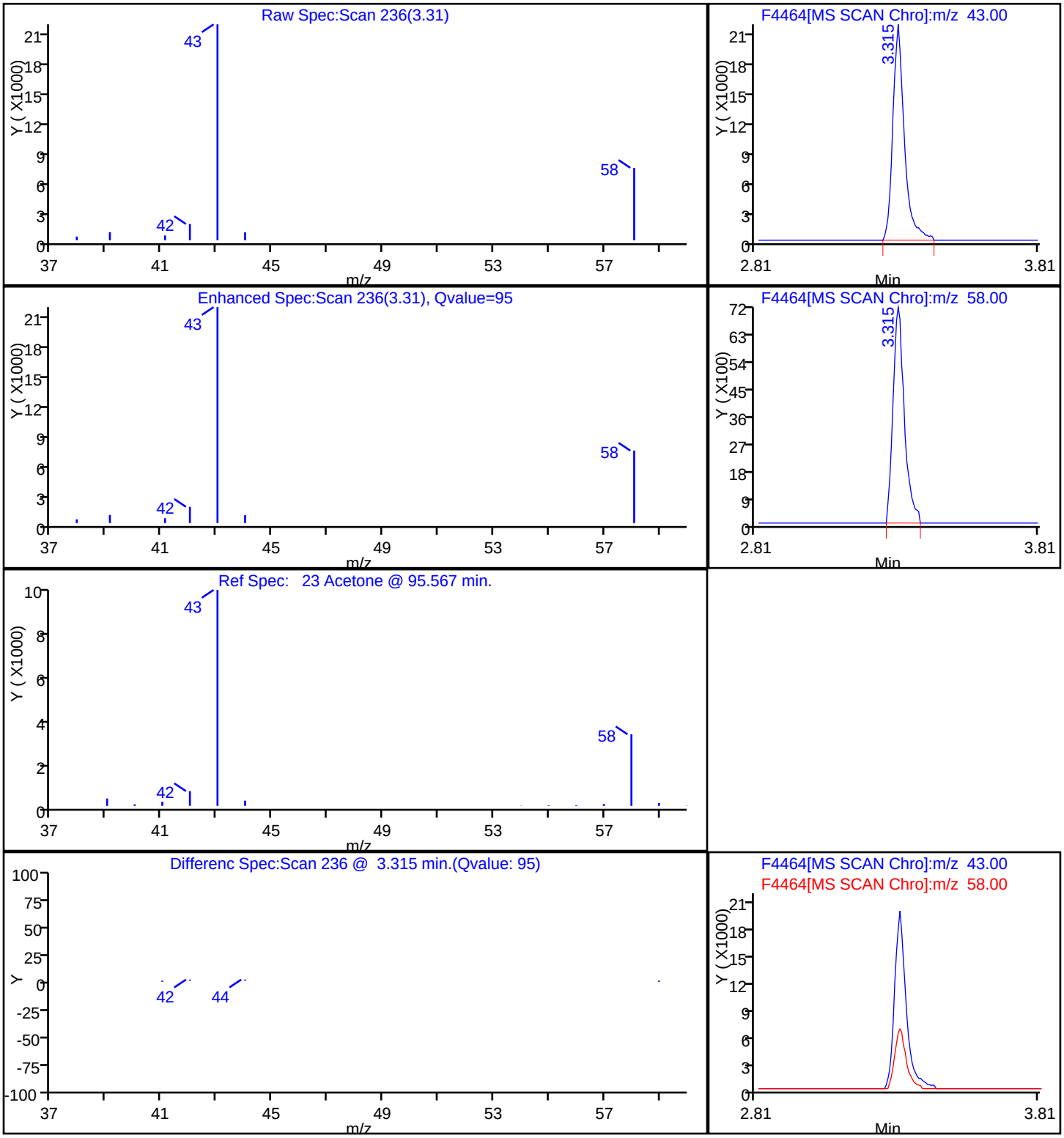


Report Date: 20-Dec-2012 14:27:08 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4464.D		
Injection Date:	19-Dec-2012 19:11:30	Limit Group:	MV - 8260MCP_RCP
Client ID:	OC-SD-SD-502-XXX	Instrument ID:	HP5973F
Lims Batch ID:	96559	Lims Sample ID:	14
Operator ID:	JMB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

23 Acetone

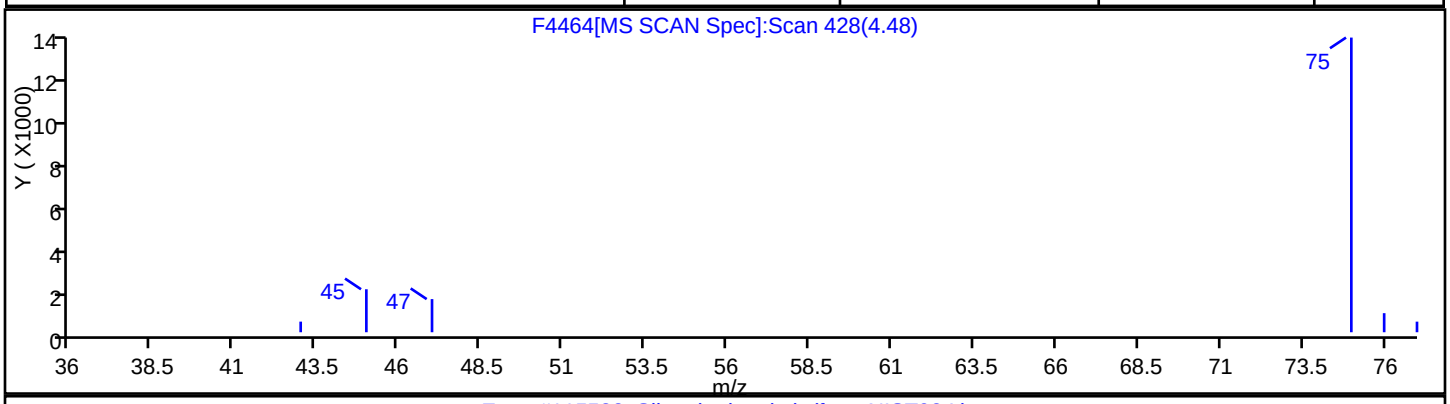


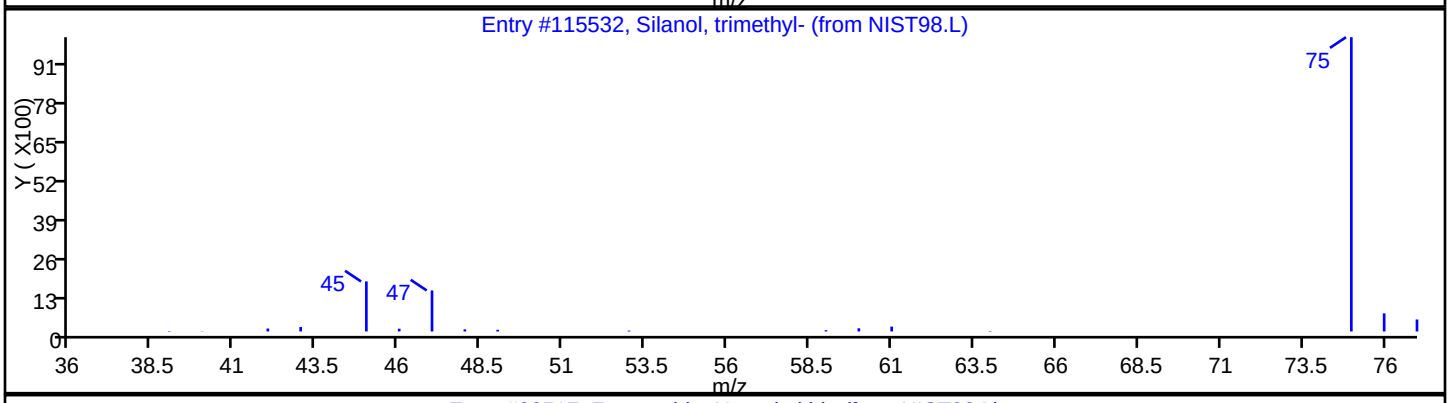
Report Date: 20-Dec-2012 14:27:08 Chrom Revision: 2.0 22-Oct-2012 16:30:48

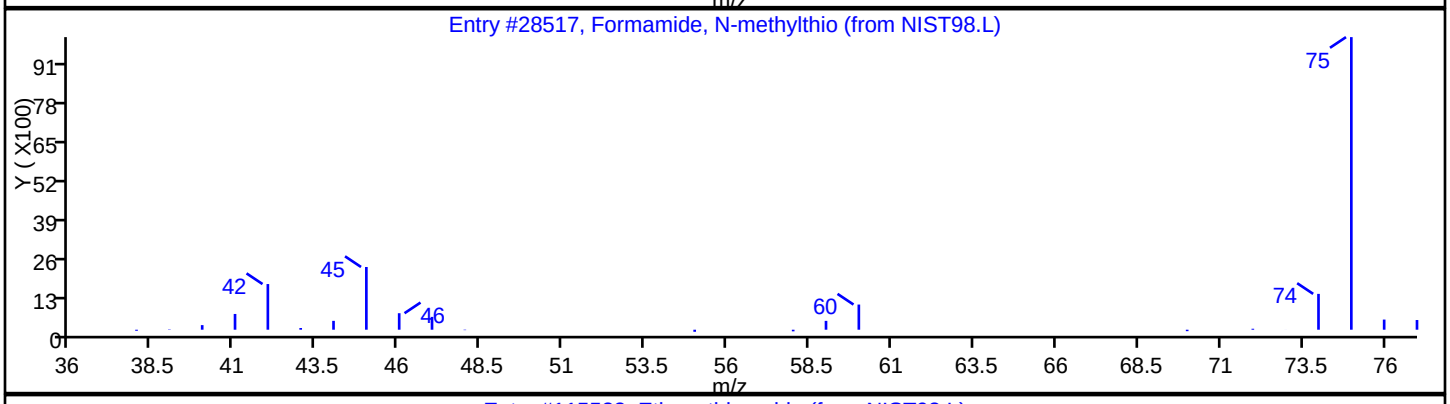
TestAmerica Buffalo

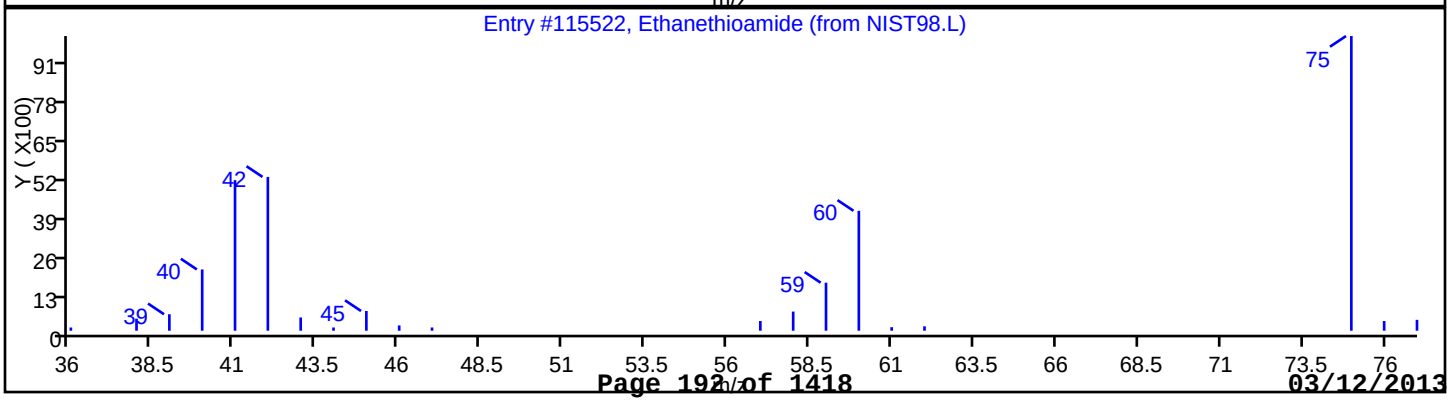
Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4464.D		
Injection Date:	19-Dec-2012 19:11:30	Limit Group:	MV - 8260MCP_RCP
Client ID:	OC-SD-SD-502-XXX	Instrument ID:	HP5973F
Lims Batch ID:	96559	Lims Sample ID:	14
Operator ID:	JMB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Silanol, trimethyl-	1066-40-6	NIST98.L	115532	9
Formamide, N-methylthio	1000196-87-7	NIST98.L	28517	7
Ethanethioamide	62-55-5	NIST98.L	115522	5







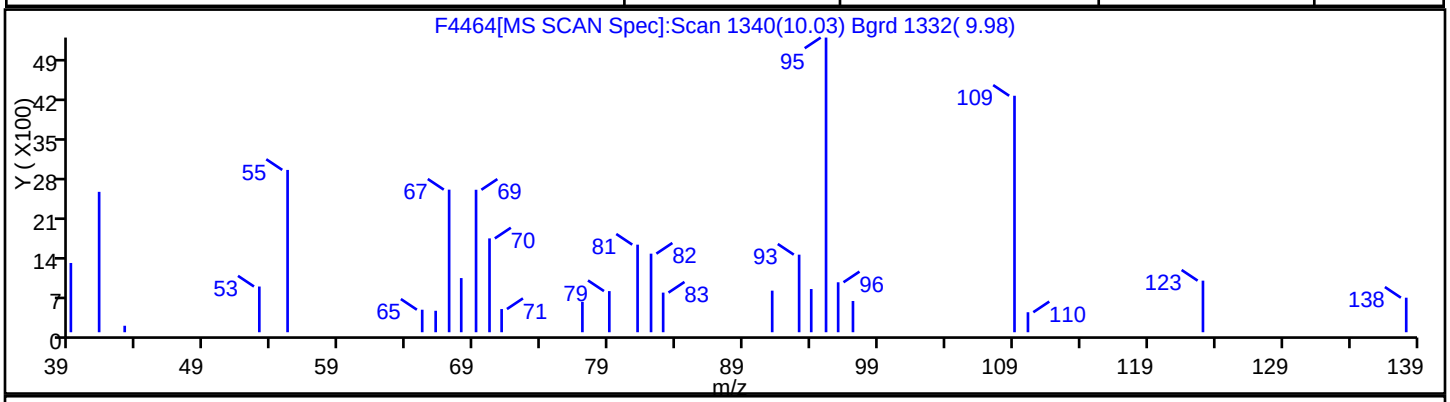


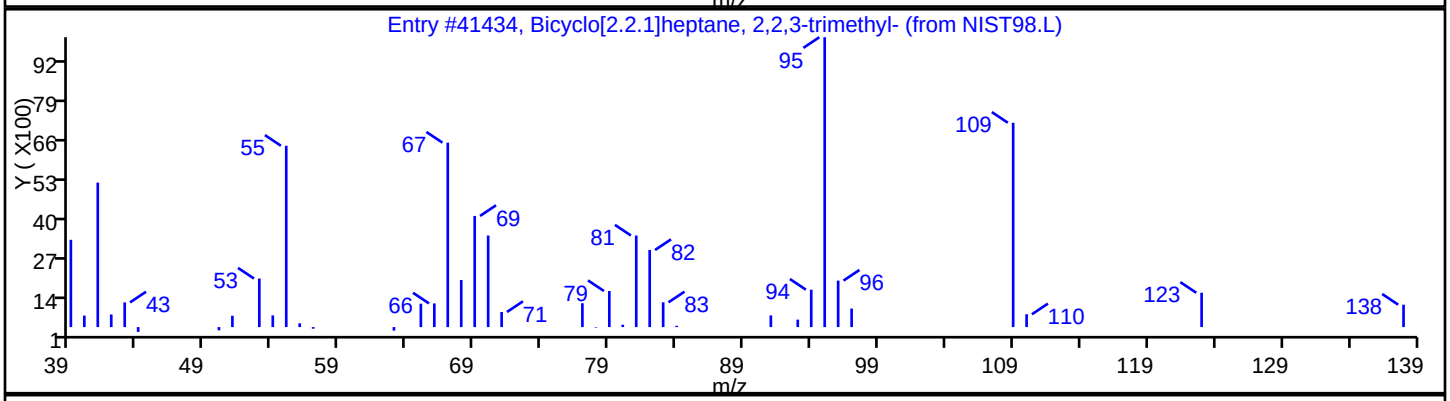
Report Date: 20-Dec-2012 14:27:08 Chrom Revision: 2.0 22-Oct-2012 16:30:48

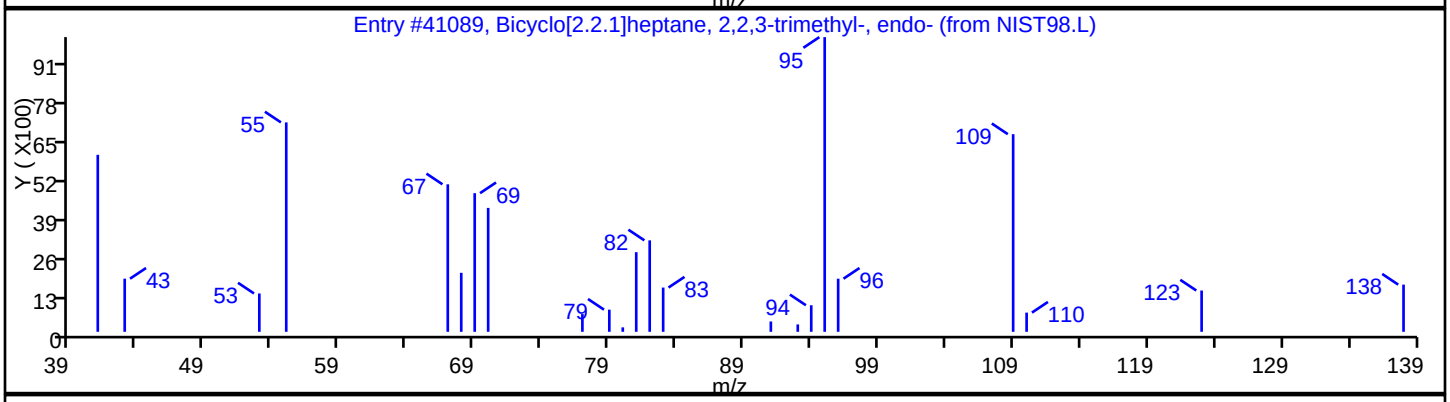
TestAmerica Buffalo

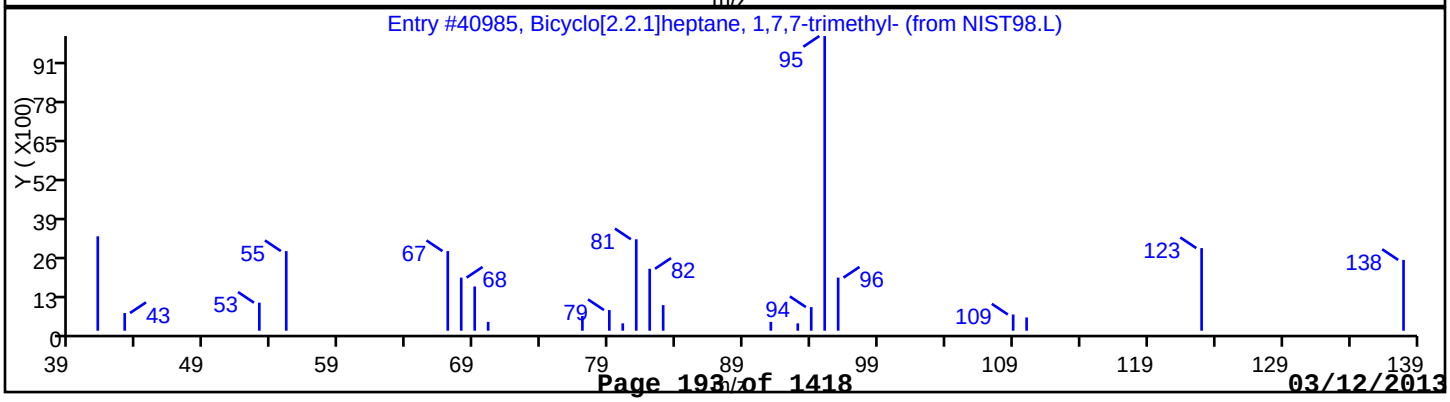
Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4464.D		
Injection Date:	19-Dec-2012 19:11:30	Limit Group:	MV - 8260MCP_RCP
Client ID:	OC-SD-SD-502-XXX	Instrument ID:	HP5973F
Lims Batch ID:	96559	Lims Sample ID:	14
Operator ID:	JMB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Bicyclo[2.2.1]heptane, 2,2,3-trimethyl-	473-19-8	NIST98.L	41434	95
Bicyclo[2.2.1]heptane, 2,2,3-trimethyl-,	20536-40-7	NIST98.L	41089	94
Bicyclo[2.2.1]heptane, 1,7,7-trimethyl-	464-15-3	NIST98.L	40985	53









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

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1 Analy Batch No.: 95189

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2012 18:50 Calibration End Date: 12/11/2012 23:36 Calibration ID: 11594

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8 480-95189/10	F4229.D
Level 2	STD9 480-95189/11	F4230.D
Level 3	STD10 480-95189/20	F4239.D
Level 4	STD11 480-95189/13	F4232.D
Level 5	STD12 480-95189/14	F4233.D
Level 6	STD13 480-95189/15	F4234.D
Level 7	STD14 480-95189/16	F4235.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								
Ethyl ether	0.3068 0.2768	0.3055 0.2836	0.3586	0.2939	0.3198	Ave		0.3064				8.9		15.0			
3-Chloro-1-propene	1.5110 0.5605	0.7593 0.5807	0.7503	0.5937	0.6034	Lin1	1.8475	0.5584							0.9960		0.9900
2-Methyl-2-propanol	0.0728 0.0657	0.0727 0.0646	0.0807	0.0729	0.0737	Ave		0.0719				7.5		15.0			
Halothane	0.1811 0.1997	0.2031 0.2199	0.2343	0.2081	0.2203	Ave		0.2095				8.2		15.0			
Isopropyl ether	1.2315 1.1763	1.2226 1.2047	1.3662	1.2347	1.2718	Ave		1.2440				4.9		15.0			
Tert-butyl ethyl ether	1.1447 1.0457	1.1635 1.1067	1.2427	1.1609	1.1706	Ave		1.1478				5.3		15.0			
Propionitrile	0.0713 0.0710	0.0702 0.0711	0.0829	0.0754	0.0770	Ave		0.0741				6.3		15.0			
Tert-amyl methyl ether	1.0009 0.9531	0.9780 1.0097	1.0835	1.0060	1.0490	Ave		1.0115				4.3		15.0			
n-Heptane	0.5994 0.5919	0.5571 0.5427	0.8198	0.6145	0.6165	Ave		0.6203				15.0		15.0			
2,4,4-Trimethyl-1-pentene	0.3668 0.3961	0.4041 0.1561	0.4676	0.4001	0.4161	Ave		0.3724				27.0	*	15.0			
2,4,4-Trimethyl-2-pentene	0.6955 0.7656	0.5761 0.8209	0.9649	0.8929	0.8000	Lin1	-0.206	0.8111							0.9960		0.9900
1,4-Dioxane	0.0150 0.0142	0.0144 0.0143	0.0162	0.0155	0.0154	Ave		0.0150				4.9		15.0			
2-Nitropropane	0.2488 0.2727	0.2443 0.2755	0.2659	0.2700	0.2845	Ave		0.2659				5.5		15.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1 Analy Batch No.: 95189

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2012 18:50 Calibration End Date: 12/11/2012 23:36 Calibration ID: 11594

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8 480-95189/10	F4229.D
Level 2	STD9 480-95189/11	F4230.D
Level 3	STD10 480-95189/20	F4239.D
Level 4	STD11 480-95189/13	F4232.D
Level 5	STD12 480-95189/14	F4233.D
Level 6	STD13 480-95189/15	F4234.D
Level 7	STD14 480-95189/16	F4235.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			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
Ethyl ether	DFB	Ave	5362 211536	10861 407331	25292	41272	111099	2.50 100	5.00 200	10.0	20.0	50.0
3-Chloro-1-propene	DFB	Lin1	26409 428324	26990 833905	52914	83375	209623	2.50 100	5.00 200	10.0	20.0	50.0
2-Methyl-2-propanol	DFB	Ave	25430 1004834	51660 1854046	113887	204745	511931	50.0 2000	100 4000	200	400	1000
Halothane	DFB	Ave	3165 152642	7218 315729	16523	29221	76536	2.50 100	5.00 200	10.0	20.0	50.0
Isopropyl ether	DFB	Ave	21524 898966	43459 1730032	96345	173380	441816	2.50 100	5.00 200	10.0	20.0	50.0
Tert-butyl ethyl ether	DFB	Ave	20006 799155	41356 1589261	87637	163015	406662	2.50 100	5.00 200	10.0	20.0	50.0
Propionitrile	DFB	Ave	12468 542501	24957 1020754	58478	105946	267490	25.0 1000	50.0 2000	100	200	500
Tert-amyl methyl ether	DFB	Ave	17493 728406	34763 1450064	76408	141274	364398	2.50 100	5.00 200	10.0	20.0	50.0
n-Heptane	DFB	Ave	10476 452341	19801 779322	57815	86295	214165	2.50 100	5.00 200	10.0	20.0	50.0
2,4,4-Trimethyl-1-pentene	DFB	Ave	6410 302668	14365 224122	32977	56183	144550	2.50 100	5.00 200	10.0	20.0	50.0
2,4,4-Trimethyl-2-pentene	DFB	Lin1	12155 585052	20479 1178831	68049	125383	277895	2.50 100	5.00 200	10.0	20.0	50.0
1,4-Dioxane	CBZ	Ave	4424 189764	8796 358550	19590	37449	93259	100 4000	200 8000	400	800	2000
2-Nitropropane	DCB	Ave	9934 492012	19879 940308	43767	88379	236210	12.5 500	25.0 1000	50.0	100	250

Curve Type Legend:
Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4229.D		
Lims ID:	STD8	Client ID:	
Inject. Date:	11-Dec-2012 18:50:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	STD8		
Misc. Info.:	480-0017433-010 =480-0017433-010		
Operator:	Jmb	Instrument ID:	HP5973F
Purge Vol:	5.000 mL	ALS Bottle#:	10
Lims Batch ID:	95189	Lims Sample ID:	10
Sublist:	chrom-F-8260 SOIL*sub15		
Detector:	MS SCAN		

Method:	\\Bufchrom\ChromData\HP5973F\20121211-17433.b\F-8260 SOIL.m		
Last Update:	11-Dec-2012 22:39:31	Calib Date:	11-Dec-2012 21:23:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4235.D		
Limit Group:	MV - 8260MCP_RCP		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK007		

First Level Reviewer: cwiklinc Date: 11-Dec-2012 22:39:31

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.608	5.608	0.0	93	349550	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	82	147743	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	92	159682	50.0	
11 Chlorodifluoromethane	51	2.013	2.013	0.0	43	5996	0	
16 Dichlorofluoromethane	67	2.810	2.810	0.0	33	8753	0	
18 Ethyl ether	59	3.029	3.035	-0.006	67	5362	2.54	
19 Propene oxide	58	3.132	3.132	0.0	69	9348	0	
24 Isopropyl alcohol	45	3.394	3.394	0.0	66	15965	0	
28 3-Chloro-1-propene	41	3.540	3.540	0.0	61	26409	3.56	
31 2-Methyl-2-propanol	59	3.698	3.698	0.0	83	25430	50.9	
35 Hexane	57	3.972	3.972	0.0	79	11922	0	
134 Halothane	117	4.124	4.130	-0.006	0	3165	2.20	
36 Isopropyl ether	45	4.124	4.130	-0.006	89	21524	2.48	
38 1,1-Dimethoxyethane	75	4.203	4.203	0.0	78	7997	0	
40 2-Chloro-1,3-butadiene	53	4.227	4.227	0.0	37	8958	0	
41 Tert-butyl ethyl ether	59	4.410	4.416	-0.006	78	20006	2.48	
42 Ethyl acetate	43	4.617	4.611	0.006	80	11543	0	
46 Propionitrile	54	4.726	4.720	0.006	72	12468	24.2	
47 Methacrylonitrile	41	4.811	4.817	-0.006	50	4914	0	
53 Isobutyl alcohol	43	5.195	5.195	0.0	72	24054	0	
56 Tert-amyl methyl ether	73	5.347	5.347	0.0	83	17493	2.48	
59 n-Heptane	43	5.420	5.420	0.0	78	10476	2.47	
136 2,4,4-Trimethyl-1-pentene	55	5.736	5.742	-0.006	0	6410	2.50	
60 n-Butanol	56	5.748	5.742	0.006	81	18769	0	
135 2,4,4-Trimethyl-2-pentene	97	5.919	5.919	0.0	0	12155	2.25	
63 Methyl methacrylate	41	6.083	6.083	0.0	54	6427	2.48	
66 1,4-Dioxane	88	6.186	6.180	0.006	53	4424	99.3	
70 2-Nitropropane	43	6.533	6.533	0.0	79	9934	11.6	
71 Epichlorohydrin	57	6.649	6.643	0.006	74	18644	0	

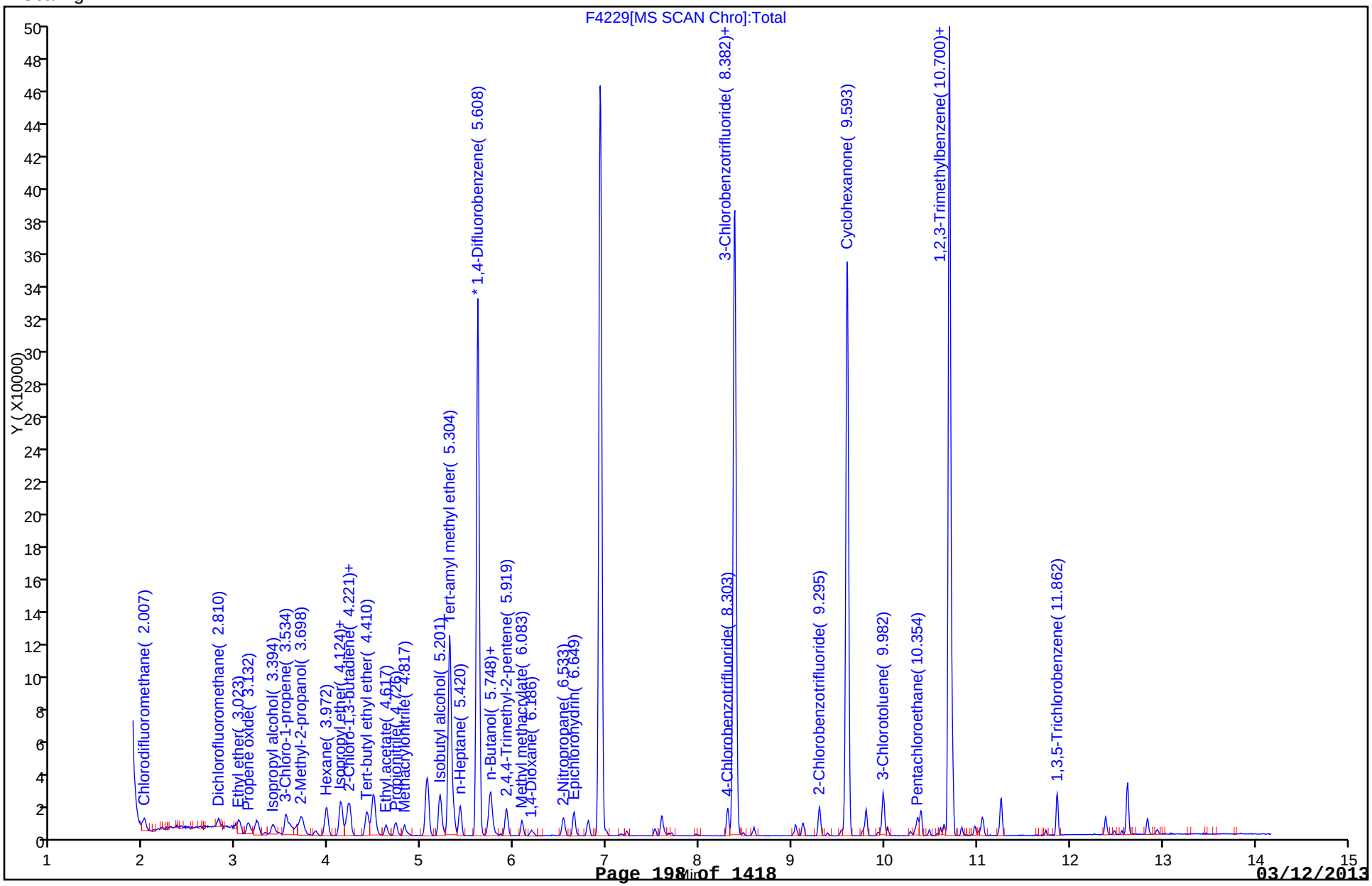
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
86 4-Chlorobenzotrifluoride	180	8.303	8.309	-0.006	30	10527	0	
85 3-Chlorobenzotrifluoride	180	8.358	8.364	-0.006	19	10483	0	
93 2-Chlorobenzotrifluoride	180	9.295	9.295	0.0	40	10610	0	
96 Cyclohexanone	55	9.581	9.581	0.0	81	14065	0	
104 3-Chlorotoluene	126	9.982	9.989	-0.006	60	8556	0	
108 Pentachloroethane	167	10.354	10.360	-0.006	23	3001	0	
114 Dicyclopentadiene	66	10.712	10.719	-0.007	74	29575	0	
112 1,2,3-Trimethylbenzene	105	10.731	10.731	0.0	49	27295	0	
118 1,3,5-Trichlorobenzene	180	11.862	11.862	0.0	53	11412	0	

Report Date: 11-Dec-2012 22:39:31 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4229.D		
Injection Date:	11-Dec-2012 18:50:30	Limit Group:	MV - 8260MCP_RCP
Client ID:		Instrument ID:	HP5973F
Lims Batch ID:	95189	Lims Sample ID:	10
Operator ID:	Jmb	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4230.D		
Lims ID:	STD9	Client ID:	
Inject. Date:	11-Dec-2012 19:15:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	STD9		
Misc. Info.:	480-0017433-011 =480-0017433-011		
Operator:	Jmb	Instrument ID:	HP5973F
Purge Vol:	5.000 mL	ALS Bottle#:	11
Lims Batch ID:	95189	Lims Sample ID:	11
Sublist:	chrom-F-8260 SOIL*sub15		
Detector:	MS SCAN		

Method:	\\Bufchrom\ChromData\HP5973F\20121211-17433.b\F-8260 SOIL.m		
Last Update:	11-Dec-2012 22:41:25	Calib Date:	11-Dec-2012 21:23:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4235.D		
Limit Group:	MV - 8260MCP_RCP		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK007		

First Level Reviewer: cwiklinc Date: 11-Dec-2012 22:41:25

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.608	5.608	0.0	93	355458	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	81	152365	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	93	162775	50.0	
11 Chlorodifluoromethane	51	2.013	2.013	0.0	44	11831	0	
16 Dichlorofluoromethane	67	2.804	2.810	-0.006	37	16316	0	
18 Ethyl ether	59	3.035	3.035	0.0	69	10861	5.05	
19 Propene oxide	58	3.132	3.132	0.0	75	17896	0	
24 Isopropyl alcohol	45	3.400	3.394	0.006	82	31544	0	
28 3-Chloro-1-propene	41	3.540	3.540	0.0	79	26990	3.60	
31 2-Methyl-2-propanol	59	3.698	3.698	0.0	95	51660	101.7	
35 Hexane	57	3.972	3.972	0.0	87	20449	0	
134 Halothane	117	4.130	4.130	0.0	0	7218	4.94	
36 Isopropyl ether	45	4.130	4.130	0.0	92	43459	4.92	
38 1,1-Dimethoxyethane	75	4.209	4.203	0.006	64	16469	0	
40 2-Chloro-1,3-butadiene	53	4.227	4.227	0.0	65	17770	0	
41 Tert-butyl ethyl ether	59	4.410	4.416	-0.006	94	41356	5.04	
42 Ethyl acetate	43	4.617	4.611	0.006	86	16799	0	
46 Propionitrile	54	4.720	4.720	0.0	87	24957	47.6	
47 Methacrylonitrile	41	4.817	4.817	0.0	72	9671	0	
53 Isobutyl alcohol	43	5.201	5.195	0.006	91	48990	0	
56 Tert-amyl methyl ether	73	5.341	5.347	-0.006	86	34763	4.84	
59 n-Heptane	43	5.414	5.420	-0.006	82	19801	4.60	
136 2,4,4-Trimethyl-1-pentene	55	5.742	5.742	0.0	0	14365	5.52	
60 n-Butanol	56	5.748	5.742	0.006	84	38575	0	
135 2,4,4-Trimethyl-2-pentene	97	5.918	5.919	-0.001	0	20479	3.73	
63 Methyl methacrylate	41	6.083	6.083	0.0	73	12808	4.86	
66 1,4-Dioxane	88	6.180	6.180	0.0	56	8796	191.5	
70 2-Nitropropane	43	6.539	6.533	0.006	95	19879	22.8	
71 Epichlorohydrin	57	6.642	6.643	-0.001	88	37887	0	

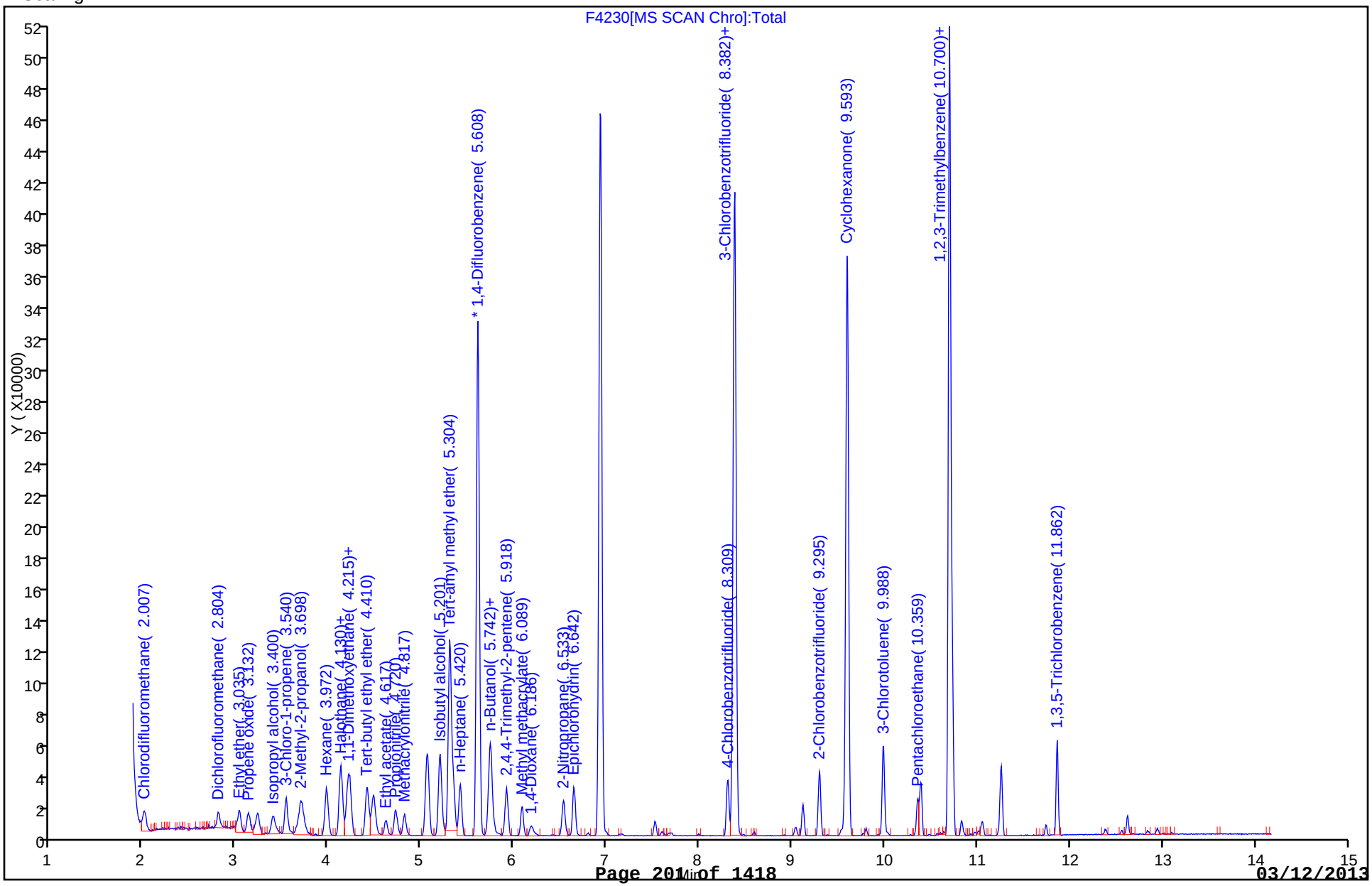
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
86 4-Chlorobenzotrifluoride	180	8.309	8.309	0.0	50	21008	0	
85 3-Chlorobenzotrifluoride	180	8.364	8.364	0.0	59	20537	0	
93 2-Chlorobenzotrifluoride	180	9.301	9.295	0.006	68	21792	0	
96 Cyclohexanone	55	9.581	9.581	0.0	89	28812	0	
104 3-Chlorotoluene	126	9.988	9.989	0.0	88	18160	0	
108 Pentachloroethane	167	10.359	10.360	-0.001	55	5991	0	
114 Dicyclopentadiene	66	10.712	10.719	-0.007	81	58450	0	
112 1,2,3-Trimethylbenzene	105	10.731	10.731	0.0	63	55419	0	
118 1,3,5-Trichlorobenzene	180	11.862	11.862	0.0	85	22935	0	

Report Date: 11-Dec-2012 22:41:25 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4230.D		
Injection Date:	11-Dec-2012 19:15:30	Limit Group:	MV - 8260MCP_RCP
Client ID:		Instrument ID:	HP5973F
Lims Batch ID:	95189	Lims Sample ID:	11
Operator ID:	Jmb	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4232.D		
Lims ID:	STD11	Client ID:	
Inject. Date:	11-Dec-2012 20:07:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	STD11		
Misc. Info.:	480-0017433-013 =480-0017433-013		
Operator:	Jmb	Instrument ID:	HP5973F
Purge Vol:	5.000 mL	ALS Bottle#:	13
Lims Batch ID:	95189	Lims Sample ID:	13
Sublist:	chrom-F-8260 SOIL*sub15		
Detector:	MS SCAN		

Method:	\\Bufchrom\ChromData\HP5973F\20121211-17433.b\F-8260 SOIL.m		
Last Update:	11-Dec-2012 22:42:28	Calib Date:	11-Dec-2012 21:23:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4235.D		
Limit Group:	MV - 8260MCP_RCP		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK007		

First Level Reviewer: cwiklinc Date: 11-Dec-2012 22:42:28

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.608	5.608	0.0	93	351066	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	82	150777	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	93	163656	50.0	
11 Chlorodifluoromethane	51	2.013	2.013	0.0	72	49819	0	
16 Dichlorofluoromethane	67	2.804	2.810	-0.006	81	59226	0	
18 Ethyl ether	59	3.029	3.035	-0.006	91	41272	19.4	
19 Propene oxide	58	3.126	3.132	-0.006	93	75551	0	
24 Isopropyl alcohol	45	3.394	3.394	0.0	99	124676	0	
28 3-Chloro-1-propene	41	3.534	3.540	-0.006	89	83375	18.1	
31 2-Methyl-2-propanol	59	3.698	3.698	0.0	98	204745	408.0	
35 Hexane	57	3.972	3.972	0.0	91	81949	0	
134 Halothane	117	4.124	4.130	-0.006	0	29221	20.3	
36 Isopropyl ether	45	4.124	4.130	-0.006	94	173380	19.9	
38 1,1-Dimethoxyethane	75	4.197	4.203	-0.006	94	70609	0	
40 2-Chloro-1,3-butadiene	53	4.227	4.227	0.0	87	70814	0	
41 Tert-butyl ethyl ether	59	4.410	4.416	-0.006	97	163015	20.1	
42 Ethyl acetate	43	4.611	4.611	0.0	95	65009	0	
46 Propionitrile	54	4.720	4.720	0.0	97	105946	204.6	
47 Methacrylonitrile	41	4.817	4.817	0.0	90	39182	0	
53 Isobutyl alcohol	43	5.195	5.195	0.0	94	193556	0	
56 Tert-amyl methyl ether	73	5.341	5.347	-0.006	97	141274	19.9	
59 n-Heptane	43	5.420	5.420	0.0	92	86295	20.3	
136 2,4,4-Trimethyl-1-pentene	55	5.736	5.742	-0.006	0	56183	21.9	
60 n-Butanol	56	5.748	5.742	0.006	89	150659	0	
135 2,4,4-Trimethyl-2-pentene	97	5.919	5.919	-0.001	0	125383	23.1	
63 Methyl methacrylate	41	6.083	6.083	0.0	90	52512	20.2	
66 1,4-Dioxane	88	6.180	6.180	0.0	87	37449	823.9	
70 2-Nitropropane	43	6.533	6.533	0.0	97	88379	100.8	
71 Epichlorohydrin	57	6.642	6.643	-0.001	97	158268	0	

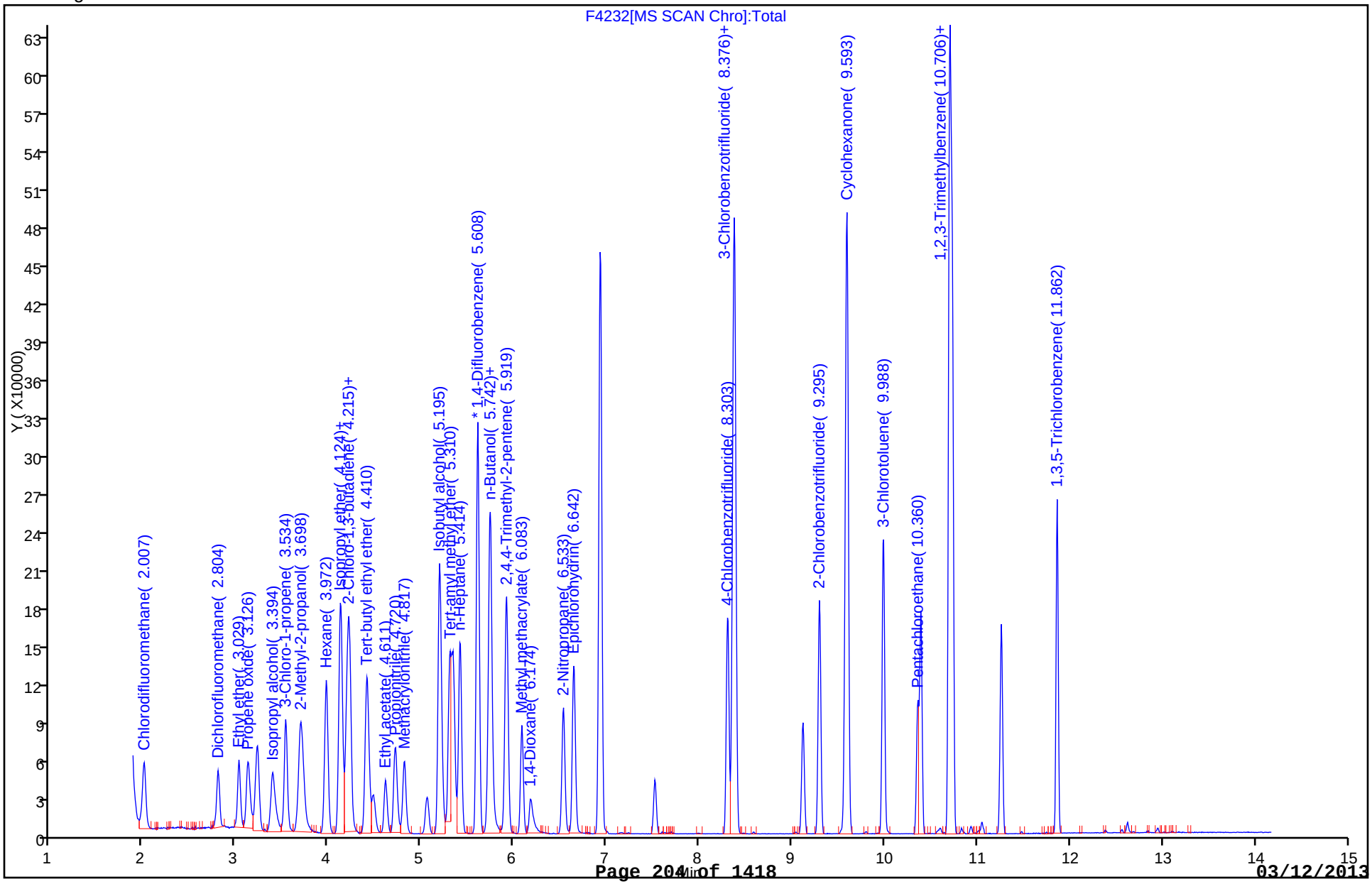
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
86 4-Chlorobenzotrifluoride	180	8.303	8.309	-0.006	87	87432	0	
85 3-Chlorobenzotrifluoride	180	8.364	8.364	0.0	88	86473	0	
93 2-Chlorobenzotrifluoride	180	9.295	9.295	0.0	95	89381	0	
96 Cyclohexanone	55	9.581	9.581	0.0	92	118040	0	
104 3-Chlorotoluene	126	9.988	9.989	0.0	94	69494	0	
108 Pentachloroethane	167	10.360	10.360	0.0	75	22961	0	
114 Dicyclopentadiene	66	10.718	10.719	-0.001	95	229709	0	
112 1,2,3-Trimethylbenzene	105	10.731	10.731	0.0	79	220319	0	
118 1,3,5-Trichlorobenzene	180	11.862	11.862	0.0	97	95281	0	

Report Date: 11-Dec-2012 22:42:28 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4232.D		
Injection Date:	11-Dec-2012 20:07:30	Limit Group:	MV - 8260MCP_RCP
Client ID:		Instrument ID:	HP5973F
Lims Batch ID:	95189	Lims Sample ID:	13
Operator ID:	Jmb	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4233.D		
Lims ID:	STD12	Client ID:	
Inject. Date:	11-Dec-2012 20:32:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	5
Sample ID:	STD12		
Misc. Info.:	480-0017433-014 =480-0017433-014		
Operator:	Jmb	Instrument ID:	HP5973F
Purge Vol:	5.000 mL	ALS Bottle#:	14
Lims Batch ID:	95189	Lims Sample ID:	14
Sublist:	chrom-F-8260 SOIL*sub15		
Detector:	MS SCAN		

Method:	\\Bufchrom\ChromData\HP5973F\20121211-17433.b\F-8260 SOIL.m		
Last Update:	11-Dec-2012 22:42:52	Calib Date:	11-Dec-2012 21:23:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4235.D		
Limit Group:	MV - 8260MCP_RCP		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK007		

First Level Reviewer: cwiklinc Date: 11-Dec-2012 22:42:52

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.608	5.608	0.0	93	347387	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	82	151334	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	93	166037	50.0	
11 Chlorodifluoromethane	51	2.013	2.013	0.0	78	130787	0	
16 Dichlorofluoromethane	67	2.810	2.810	0.0	82	148525	0	
18 Ethyl ether	59	3.035	3.035	0.0	91	111099	52.9	
19 Propene oxide	58	3.132	3.132	0.0	94	189432	0	
24 Isopropyl alcohol	45	3.394	3.394	0.0	99	307619	0	
28 3-Chloro-1-propene	41	3.540	3.540	0.0	91	209623	50.8	
31 2-Methyl-2-propanol	59	3.698	3.698	0.0	98	511931	1031.1	
35 Hexane	57	3.972	3.972	0.0	91	212320	0	
134 Halothane	117	4.130	4.130	0.0	0	76536	53.6	
36 Isopropyl ether	45	4.130	4.130	0.0	94	441816	51.2	
38 1,1-Dimethoxyethane	75	4.203	4.203	0.0	94	181288	0	
40 2-Chloro-1,3-butadiene	53	4.227	4.227	0.0	89	186609	0	
41 Tert-butyl ethyl ether	59	4.416	4.416	0.0	97	406662	50.8	
42 Ethyl acetate	43	4.611	4.611	0.0	98	162860	0	
46 Propionitrile	54	4.720	4.720	0.0	99	267490	522.0	
47 Methacrylonitrile	41	4.817	4.817	0.0	92	98120	0	
53 Isobutyl alcohol	43	5.195	5.195	0.0	95	480986	0	
56 Tert-amyl methyl ether	73	5.347	5.347	0.0	98	364398	52.0	
59 n-Heptane	43	5.420	5.420	0.0	92	214165	50.9	
136 2,4,4-Trimethyl-1-pentene	55	5.742	5.742	0.0	0	144550	56.8	
60 n-Butanol	56	5.742	5.742	0.0	89	387690	0	
135 2,4,4-Trimethyl-2-pentene	97	5.919	5.919	0.0	0	277895	51.7	
63 Methyl methacrylate	41	6.083	6.083	0.0	90	132779	51.5	
66 1,4-Dioxane	88	6.180	6.180	0.0	90	93259	2044.2	
70 2-Nitropropane	43	6.533	6.533	0.0	98	236210	265.5	
71 Epichlorohydrin	57	6.643	6.643	0.0	98	395791	0	

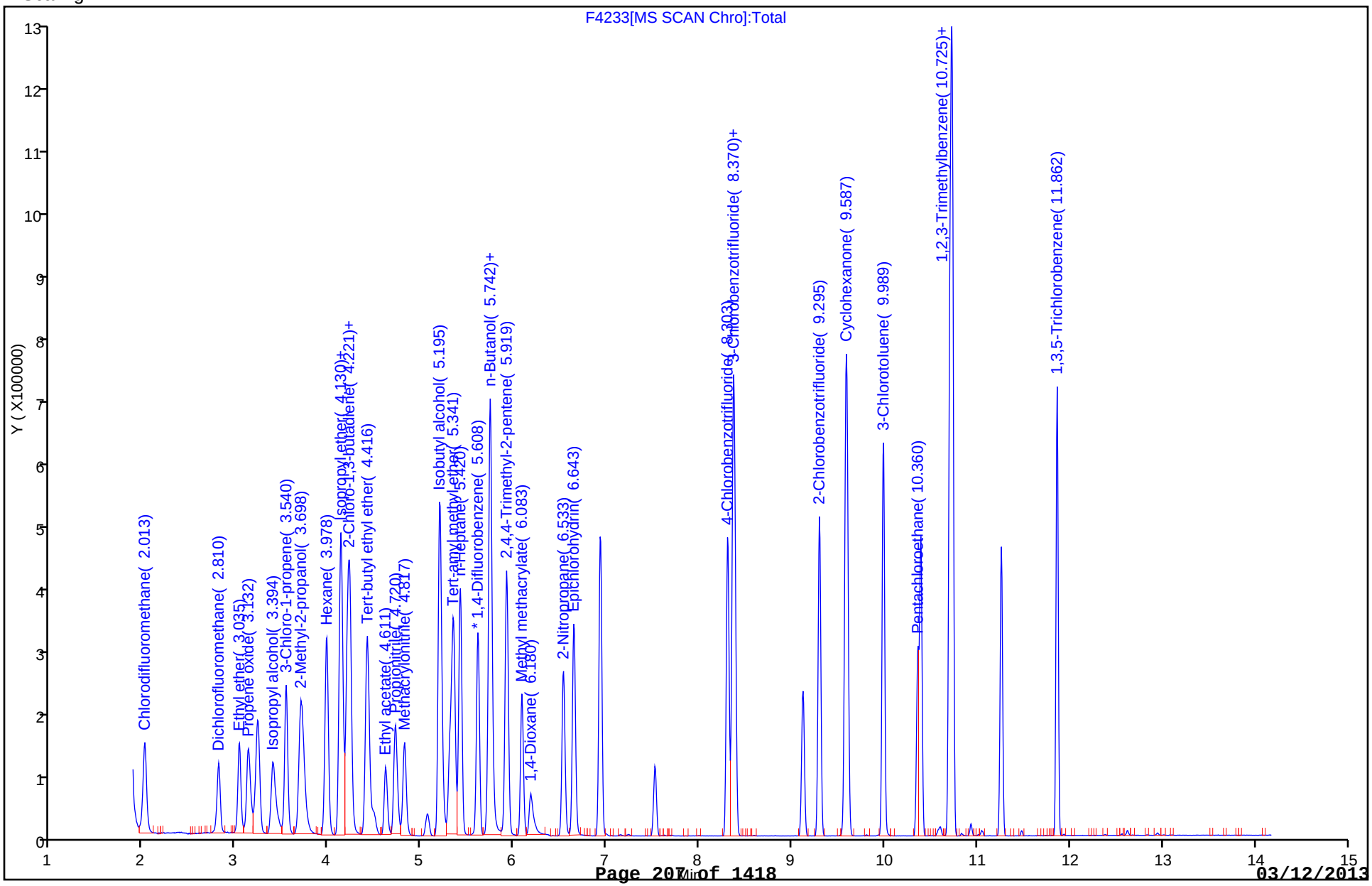
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
86 4-Chlorobenzotrifluoride	180	8.309	8.309	0.0	91	231467	0	
85 3-Chlorobenzotrifluoride	180	8.364	8.364	0.0	88	229144	0	
93 2-Chlorobenzotrifluoride	180	9.295	9.295	0.0	98	235170	0	
96 Cyclohexanone	55	9.581	9.581	0.0	92	300034	0	
104 3-Chlorotoluene	126	9.989	9.989	0.0	95	185345	0	
108 Pentachloroethane	167	10.360	10.360	0.0	84	62825	0	
114 Dicyclopentadiene	66	10.719	10.719	0.0	96	598005	0	
112 1,2,3-Trimethylbenzene	105	10.731	10.731	0.0	97	576101	0	
118 1,3,5-Trichlorobenzene	180	11.862	11.862	0.0	98	252874	0	

Report Date: 11-Dec-2012 22:42:53 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4233.D		
Injection Date:	11-Dec-2012 20:32:30	Limit Group:	MV - 8260MCP_RCP
Client ID:		Instrument ID:	HP5973F
Lims Batch ID:	95189	Lims Sample ID:	14
Operator ID:	Jmb	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4234.D		
Lims ID:	STD13	Client ID:	
Inject. Date:	11-Dec-2012 20:57:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	STD13		
Misc. Info.:	480-0017433-015 =480-0017433-015		
Operator:	Jmb	Instrument ID:	HP5973F
Purge Vol:	5.000 mL	ALS Bottle#:	15
Lims Batch ID:	95189	Lims Sample ID:	15
Sublist:	chrom-F-8260 SOIL*sub15		
Detector:	MS SCAN		

Method:	\\Bufchrom\ChromData\HP5973F\20121211-17433.b\F-8260 SOIL.m		
Last Update:	11-Dec-2012 22:43:09	Calib Date:	11-Dec-2012 21:23:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4235.D		
Limit Group:	MV - 8260MCP_RCP		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK007		

First Level Reviewer: cwiklinc Date: 11-Dec-2012 22:43:09

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.608	5.608	0.0	93	382108	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	81	166999	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	81	180455	50.0	
11 Chlorodifluoromethane	51	2.007	2.013	-0.006	78	296281	0	
16 Dichlorofluoromethane	67	2.804	2.810	-0.006	82	286697	0	
18 Ethyl ether	59	3.023	3.035	-0.012	91	211536	91.5	
19 Propene oxide	58	3.120	3.132	-0.012	95	366677	0	
24 Isopropyl alcohol	45	3.394	3.394	0.0	99	599019	0	
28 3-Chloro-1-propene	41	3.528	3.540	-0.012	92	428324	97.2	
31 2-Methyl-2-propanol	59	3.698	3.698	0.0	98	1004834	1839.9	
35 Hexane	57	3.972	3.972	0.0	92	433368	0	
134 Halothane	117	4.124	4.130	-0.006	0	152642	97.3	
36 Isopropyl ether	45	4.124	4.130	-0.006	94	898966	94.6	
38 1,1-Dimethoxyethane	75	4.197	4.203	-0.006	95	370665	0	
40 2-Chloro-1,3-butadiene	53	4.221	4.227	-0.006	87	395903	0	
41 Tert-butyl ethyl ether	59	4.410	4.416	-0.006	97	799155	90.7	
42 Ethyl acetate	43	4.611	4.611	-0.001	99	330848	0	
46 Propionitrile	54	4.714	4.720	-0.006	99	542501	962.5	
47 Methacrylonitrile	41	4.811	4.817	-0.006	92	198145	0	
53 Isobutyl alcohol	43	5.195	5.195	0.0	95	955029	0	
56 Tert-amyl methyl ether	73	5.341	5.347	-0.006	98	728406	94.4	
59 n-Heptane	43	5.414	5.420	-0.006	92	452341	97.7	
136 2,4,4-Trimethyl-1-pentene	55	5.742	5.742	0.0	0	302668	108.2	
60 n-Butanol	56	5.742	5.742	0.0	87	775121	0	
135 2,4,4-Trimethyl-2-pentene	97	5.918	5.919	-0.001	0	585052	99.0	
63 Methyl methacrylate	41	6.083	6.083	0.0	90	266118	93.9	
66 1,4-Dioxane	88	6.174	6.180	-0.006	90	189764	3769.4	
70 2-Nitropropane	43	6.533	6.533	0.0	97	492012	508.9	
71 Epichlorohydrin	57	6.642	6.643	-0.001	98	795005	0	

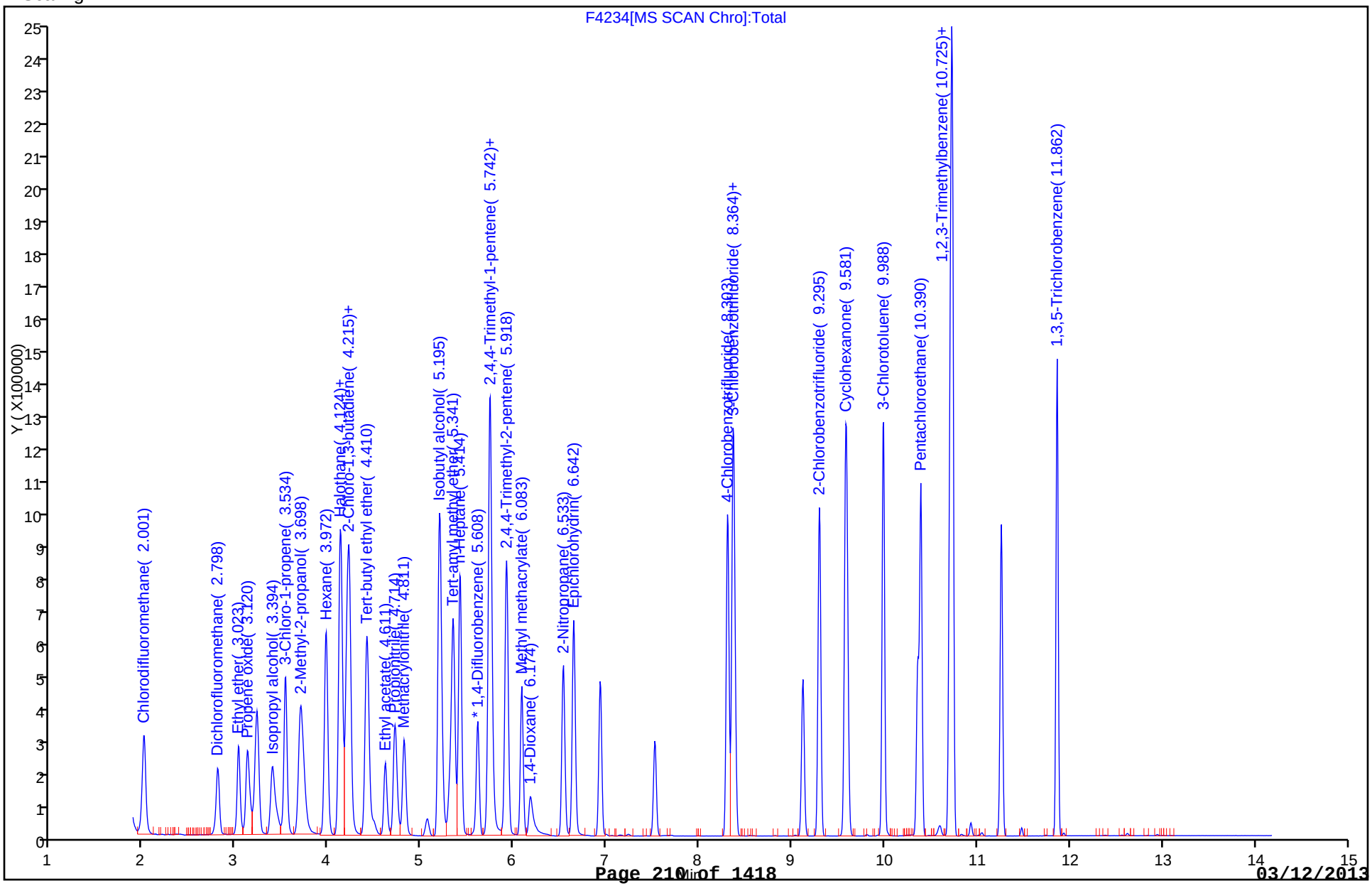
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
86 4-Chlorobenzotrifluoride	180	8.303	8.309	-0.006	92	489158	0	
85 3-Chlorobenzotrifluoride	180	8.364	8.364	0.0	91	474682	0	
93 2-Chlorobenzotrifluoride	180	9.295	9.295	0.0	97	486011	0	
96 Cyclohexanone	55	9.581	9.581	0.0	91	625245	0	
104 3-Chlorotoluene	126	9.988	9.989	0.0	95	383104	0	
108 Pentachloroethane	167	10.359	10.360	-0.001	88	119198	0	
114 Dicyclopentadiene	66	10.712	10.719	-0.007	96	1212233	0	
112 1,2,3-Trimethylbenzene	105	10.731	10.731	0.0	97	1151901	0	
118 1,3,5-Trichlorobenzene	180	11.862	11.862	0.0	94	527952	0	

Report Date: 11-Dec-2012 22:43:09 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4234.D		
Injection Date:	11-Dec-2012 20:57:30	Limit Group:	MV - 8260MCP_RCP
Client ID:		Instrument ID:	HP5973F
Lims Batch ID:	95189	Lims Sample ID:	15
Operator ID:	Jmb	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4235.D		
Lims ID:	STD14	Client ID:	
Inject. Date:	11-Dec-2012 21:23:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	7
Sample ID:	STD14		
Misc. Info.:	480-0017433-016 =480-0017433-016		
Operator:	Jmb	Instrument ID:	HP5973F
Purge Vol:	5.000 mL	ALS Bottle#:	16
Lims Batch ID:	95189	Lims Sample ID:	16
Sublist:	chrom-F-8260 SOIL*sub15		
Detector:	MS SCAN		

Method:	\\Bufchrom\ChromData\HP5973F\20121211-17433.b\F-8260 SOIL.m		
Last Update:	11-Dec-2012 22:43:27	Calib Date:	11-Dec-2012 21:23:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4235.D		
Limit Group:	MV - 8260MCP_RCP		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK007		

First Level Reviewer: cwiklinc Date: 11-Dec-2012 22:43:27

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.608	5.608	0.0	92	359023	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	80	156508	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	74	170655	50.0	
11 Chlorodifluoromethane	51	2.013	2.013	0.0	79	579717	0	
16 Dichlorofluoromethane	67	2.798	2.810	-0.012	83	509616	0	
18 Ethyl ether	59	3.023	3.035	-0.012	91	407331	187.5	
19 Propene oxide	58	3.120	3.132	-0.012	96	670383	0	
24 Isopropyl alcohol	45	3.394	3.394	0.0	99	1115538	0	
28 3-Chloro-1-propene	41	3.528	3.540	-0.012	92	833905	204.8	
31 2-Methyl-2-propanol	59	3.698	3.698	0.0	98	1854046	3613.1	
35 Hexane	57	3.972	3.972	0.0	91	741668	0	
134 Halothane	117	4.124	4.130	-0.006	0	315729	214.1	
36 Isopropyl ether	45	4.130	4.130	0.0	95	1730032	193.8	
38 1,1-Dimethoxyethane	75	4.197	4.203	-0.006	93	711753	0	
40 2-Chloro-1,3-butadiene	53	4.221	4.227	-0.006	87	759101	0	
41 Tert-butyl ethyl ether	59	4.410	4.416	-0.006	97	1589261	191.9	
42 Ethyl acetate	43	4.611	4.611	0.0	99	629625	0	
46 Propionitrile	54	4.714	4.720	-0.006	99	1020754	1927.4	
47 Methacrylonitrile	41	4.811	4.817	-0.006	92	381964	0	
53 Isobutyl alcohol	43	5.195	5.195	0.0	95	1711672	0	
56 Tert-amyl methyl ether	73	5.341	5.347	-0.006	98	1450064	200.1	
59 n-Heptane	43	5.414	5.420	-0.006	91	779322	179.1	
136 2,4,4-Trimethyl-1-pentene	55	5.742	5.742	0.0	0	224122	85.2	
60 n-Butanol	56	5.742	5.742	0.0	86	1210146	0	
135 2,4,4-Trimethyl-2-pentene	97	5.919	5.919	0.0	0	1178831	212.3	
63 Methyl methacrylate	41	6.083	6.083	0.0	89	519097	194.9	
66 1,4-Dioxane	88	6.174	6.180	-0.006	91	358550	7599.6	
70 2-Nitropropane	43	6.533	6.533	0.0	96	940308	1028.4	
71 Epichlorohydrin	57	6.643	6.643	0.0	98	1462893	0	

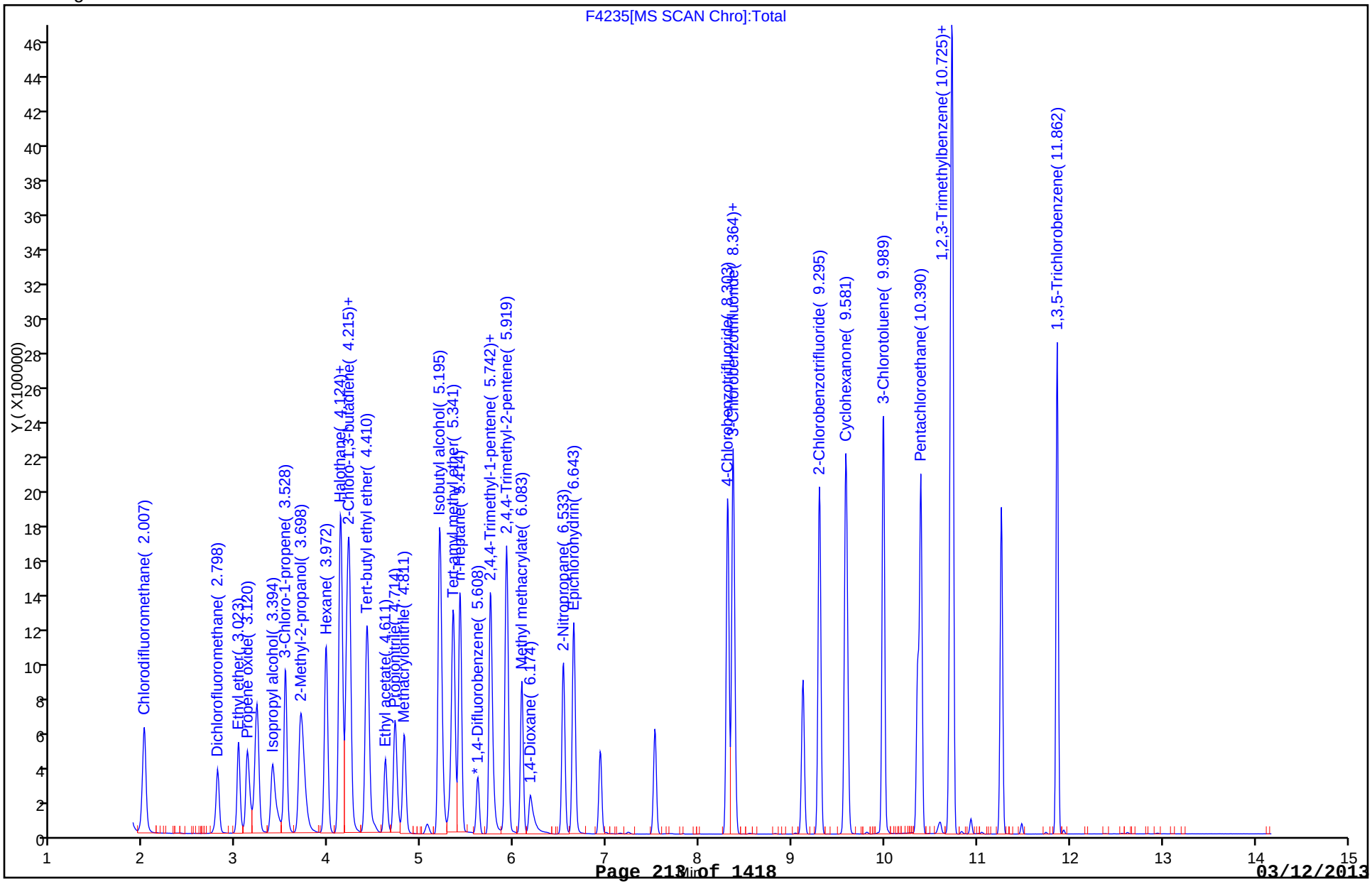
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
86 4-Chlorobenzotrifluoride	180	8.303	8.309	-0.006	92	964928	0	
85 3-Chlorobenzotrifluoride	180	8.364	8.364	0.0	92	943913	0	
93 2-Chlorobenzotrifluoride	180	9.295	9.295	0.0	97	965351	0	
96 Cyclohexanone	55	9.581	9.581	0.0	90	1154228	0	
104 3-Chlorotoluene	126	9.989	9.989	0.001	94	755256	0	
108 Pentachloroethane	167	10.360	10.360	0.0	88	234604	0	
114 Dicyclopentadiene	66	10.712	10.719	-0.007	96	2302638	0	
112 1,2,3-Trimethylbenzene	105	10.731	10.731	0.0	97	2231642	0	
118 1,3,5-Trichlorobenzene	180	11.862	11.862	0.0	97	1054106	0	

Report Date: 11-Dec-2012 22:43:27 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4235.D		
Injection Date:	11-Dec-2012 21:23:30	Limit Group:	MV - 8260MCP_RCP
Client ID:		Instrument ID:	HP5973F
Lims Batch ID:	95189	Lims Sample ID:	16
Operator ID:	Jmb	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4239.D		
Lims ID:	STD10	Client ID:	
Inject. Date:	11-Dec-2012 23:36:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	STD10		
Misc. Info.:	480-0017433-020 =480-0017433-020		
Operator:	Jmb	Instrument ID:	HP5973F
Purge Vol:	5.000 mL	ALS Bottle#:	20
Lims Batch ID:	95189	Lims Sample ID:	20
Sublist:	chrom-F-8260 SOIL*sub15		
Detector:	MS SCAN		

Method:	\\Bufchrom\ChromData\HP5973F\20121211-17433.b\F-8260 SOIL.m		
Last Update:	11-Dec-2012 23:46:45	Calib Date:	11-Dec-2012 23:36:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4239.D		
Limit Group:	MV - 8260MCP_RCP		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK007		

First Level Reviewer: cwiklinc Date: 11-Dec-2012 23:46:45

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.608	5.608	0.0	93	352608	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	81	151525	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	92	164630	50.0	
11 Chlorodifluoromethane	51	2.013	2.013	0.0	86	32810	0	
16 Dichlorofluoromethane	67	2.804	2.810	-0.006	77	38533	0	
18 Ethyl ether	59	3.023	3.035	-0.012	82	25292	11.7	
19 Propene oxide	58	3.126	3.132	-0.006	85	41488	0	
24 Isopropyl alcohol	45	3.394	3.394	0.0	96	68652	0	
28 3-Chloro-1-propene	41	3.534	3.540	-0.006	86	52914	10.1	
31 2-Methyl-2-propanol	59	3.692	3.698	-0.006	98	113887	224.7	
35 Hexane	57	3.972	3.972	0.0	90	53997	0	
134 Halothane	117	4.130	4.130	0.0	0	16523	11.2	
36 Isopropyl ether	45	4.124	4.130	-0.006	93	96345	11.0	
38 1,1-Dimethoxyethane	75	4.203	4.203	0.0	94	38392	0	
40 2-Chloro-1,3-butadiene	53	4.227	4.227	0.0	79	46298	0	
41 Tert-butyl ethyl ether	59	4.416	4.416	0.0	97	87637	10.8	
42 Ethyl acetate	43	4.610	4.611	-0.001	94	36351	0	
46 Propionitrile	54	4.720	4.720	0.0	96	58478	111.8	
47 Methacrylonitrile	41	4.811	4.817	-0.006	79	21134	0	
53 Isobutyl alcohol	43	5.194	5.195	-0.001	94	108015	0	
56 Tert-amyl methyl ether	73	5.340	5.347	-0.007	96	76408	10.7	
59 n-Heptane	43	5.419	5.420	-0.001	92	57815	13.2	
136 2,4,4-Trimethyl-1-pentene	55	5.736	5.742	-0.006	0	32977	12.6	
60 n-Butanol	56	5.742	5.742	0.0	87	86949	0	
135 2,4,4-Trimethyl-2-pentene	97	5.918	5.919	-0.001	0	68049	12.2	
63 Methyl methacrylate	41	6.083	6.083	0.0	83	28357	10.8	
66 1,4-Dioxane	88	6.180	6.180	0.0	82	19590	430.9	
70 2-Nitropropane	43	6.533	6.533	0.0	99	43767	50.0	
71 Epichlorohydrin	57	6.642	6.643	-0.001	97	88003	0	

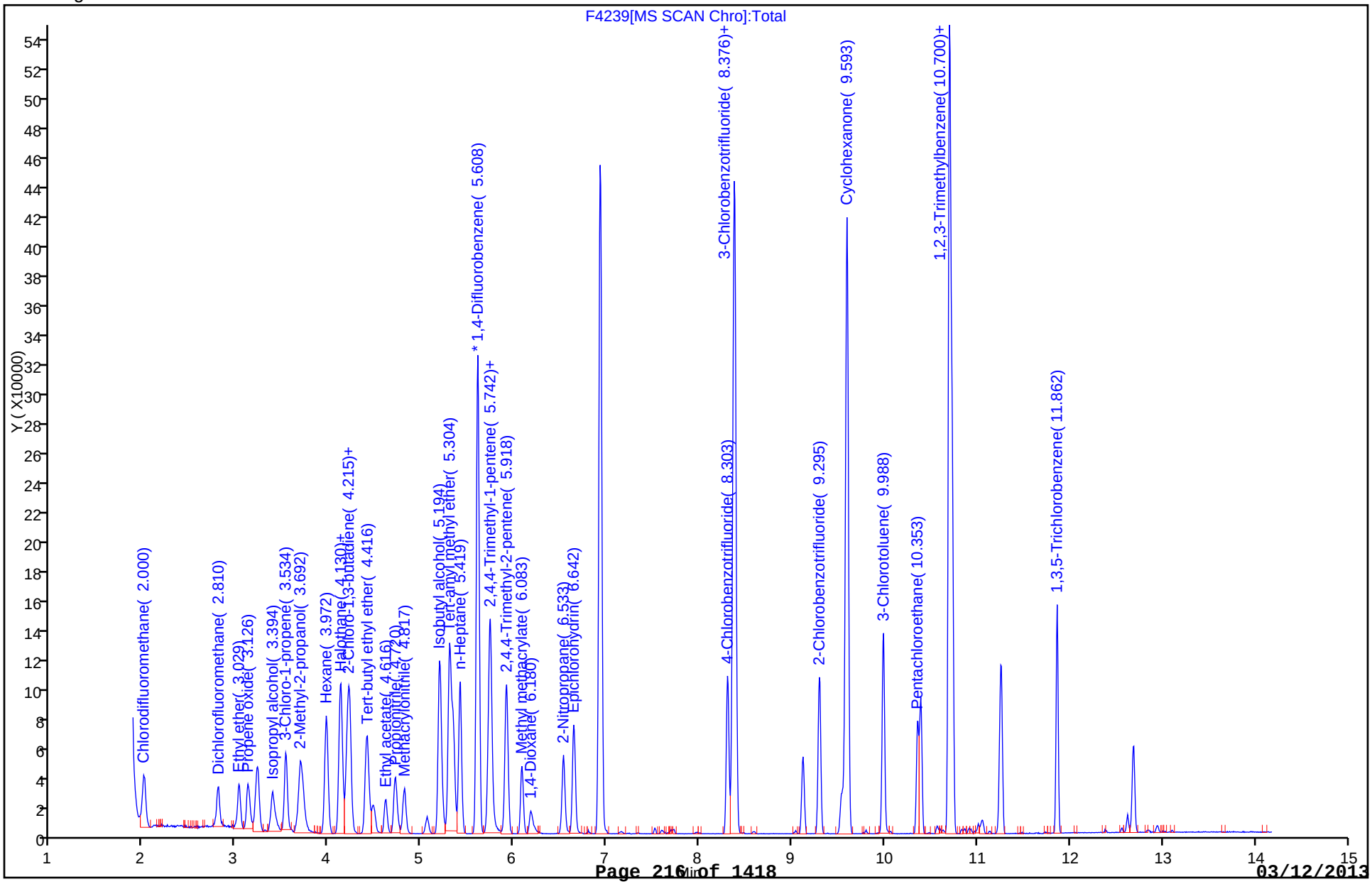
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
86 4-Chlorobenzotrifluoride	180	8.303	8.309	-0.006	83	55096	0	
85 3-Chlorobenzotrifluoride	180	8.364	8.364	0.0	74	54628	0	
93 2-Chlorobenzotrifluoride	180	9.301	9.295	0.006	93	53201	0	
96 Cyclohexanone	55	9.581	9.581	0.0	89	70159	0	
104 3-Chlorotoluene	126	9.988	9.989	0.0	93	41081	0	
108 Pentachloroethane	167	10.359	10.360	-0.001	71	17692	0	
114 Dicyclopentadiene	66	10.718	10.719	-0.001	94	136222	0	
112 1,2,3-Trimethylbenzene	105	10.730	10.731	-0.001	73	124509	0	
118 1,3,5-Trichlorobenzene	180	11.862	11.862	0.0	96	55859	0	

Report Date: 11-Dec-2012 23:46:45 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4239.D		
Injection Date:	11-Dec-2012 23:36:30	Limit Group:	MV - 8260MCP_RCP
Client ID:		Instrument ID:	HP5973F
Lims Batch ID:	95189	Lims Sample ID:	20
Operator ID:	Jmb	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



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

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1 Analy Batch No.: 96157

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/17/2012 13:05 Calibration End Date: 12/17/2012 14:47 Calibration ID: 11625

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-96157/3	F4390.D
Level 2	STD2 480-96157/4	F4391.D
Level 3	STD3 480-96157/5	F4392.D
Level 4	STD4 480-96157/6	F4393.D
Level 5	STD5 480-96157/7	F4394.D
Level 6	STD6 480-96157/8	F4395.D
Level 7	STD7 480-96157/12	F4396.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								
Dichlorodifluoromethane	0.1713 0.2506	0.1146 0.2384	0.2357	0.2634	0.2324	Lin1	-0.263	0.2447			0.1000				0.9960		0.9900
Chloromethane	0.2390 0.2582	0.2053 0.2549	0.2577	0.2746	0.2643	Ave		0.2506			0.0500	9.0		15.0			
Vinyl chloride	0.2093 0.2581	0.1625 0.2527	0.2497	0.2698	0.2559	Lin1	-0.181	0.2571			0.1000				0.9980		0.9900
Bromomethane	0.0667 0.0915	0.0688 0.1120	0.0900	0.0966	0.0868	Lin	-0.514	0.1105			0.0500				0.9910		0.9900
Chloroethane	0.0610 0.0925	0.0721 0.1094	0.0901	0.0977	0.0894	Ave		0.0875		*	0.1000	18.0	*	15.0			
Trichlorofluoromethane	0.2509 0.3315	0.1755 0.3423	0.3158	0.3493	0.3111	Lin1	-0.380	0.3393			0.1000				0.9970		0.9900
Acrolein	0.0513 0.0566	0.0492 0.0486	0.0537	0.0559	0.0545	Ave		0.0528				6.0		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2064 0.3044	0.1743 0.2974	0.2706	0.3195	0.2696	Lin1	-0.327	0.2998			0.1000				0.9970		0.9900
1,1-Dichloroethene	0.2571 0.3045	0.1962 0.2988	0.2999	0.3207	0.2998	Ave		0.2824			0.1000	15.0		15.0			
Acetone	0.1295 0.1288	0.1145 0.1062	0.1213	0.1215	0.1241	Ave		0.1208			0.0500	6.8		15.0			
Iodomethane	0.3998 0.4829	0.4126 0.4674	0.4569	0.5038	0.4747	Ave		0.4569				8.3		15.0			
Carbon disulfide	0.6989 0.9412	0.6076 0.9354	0.8114	0.9113	0.8881	Lin1	-0.988	0.9384			0.1000				0.9990		0.9900
Methyl acetate	0.4165 0.4324	0.3666 0.3626	0.4074	0.4174	0.4040	Ave		0.4010			0.1000	6.6		15.0			
Acetonitrile	0.0302 0.0300	0.0262 0.0251	0.0285	0.0289	0.0289	Ave		0.0283				6.8		15.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1 Analy Batch No.: 96157

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/17/2012 13:05 Calibration End Date: 12/17/2012 14:47 Calibration ID: 11625

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								
Methylene Chloride	0.3524 0.3431	0.3291 0.3316	0.3550	0.3699	0.3489	Ave		0.3471			0.1000	4.1		15.0			
Methyl tert-butyl ether	0.8030 0.9279	0.8123 0.8522	0.8634	0.9256	0.8973	Ave		0.8688			0.1000	5.8		15.0			
trans-1,2-Dichloroethene	0.3107 0.3523	0.2750 0.3418	0.3569	0.3728	0.3564	Ave		0.3380			0.1000	10.0		15.0			
Acrylonitrile	0.1524 0.1667	0.1380 0.1395	0.1527	0.1573	0.1578	Ave		0.1521				6.7		15.0			
Vinyl acetate	0.5660 0.6503	0.5883 0.5536	0.6521	0.6802	0.6524	Ave		0.6204				8.0		15.0			
1,1-Dichloroethane	0.4988 0.5418	0.4787 0.5246	0.5744	0.5830	0.5553	Ave		0.5367			0.2000	7.2		15.0			
2-Butanone (MEK)	0.2003 0.2152	0.1806 0.1719	0.1943	0.1989	0.2032	Ave		0.1949			0.0500	7.4		15.0			
2,2-Dichloropropane	0.3085 0.4237	0.2792 0.4200	0.3968	0.4288	0.4205	Lin1	-0.381	0.4252							0.9990		0.9900
cis-1,2-Dichloroethene	0.3418 0.3805	0.3264 0.3655	0.3848	0.4076	0.3862	Ave		0.3704			0.1000	7.6		15.0			
Chlorobromomethane	0.1693 0.2008	0.1609 0.1929	0.2016	0.2067	0.2032	Ave		0.1908				9.5		15.0			
Tetrahydrofuran	0.1313 0.1419	0.1171 0.1136	0.1283	0.1310	0.1341	Ave		0.1282				7.6		15.0			
Chloroform	0.4955 0.5382	0.4498 0.5242	0.5368	0.5655	0.5456	Ave		0.5222			0.2000	7.4		15.0			
1,1,1-Trichloroethane	0.3506 0.4724	0.2912 0.4724	0.4287	0.4767	0.4624	Lin1	-0.478	0.4757			0.1000				0.9990		0.9900
Cyclohexane	0.4512 0.5922	0.3802 0.5717	0.5446	0.6133	0.5443	Lin1	-0.462	0.5800			0.1000				0.9980		0.9900
1,1-Dichloropropene	0.3644 0.4354	0.3071 0.4230	0.4401	0.4502	0.4289	Ave		0.4070				13.0		15.0			
Carbon tetrachloride	0.2422 0.4056	0.2019 0.4238	0.3165	0.3652	0.3749	Lin1	-0.745	0.4164			0.1000				0.9980		0.9900
Benzene	1.2293 1.2948	1.1182 1.2396	1.3486	1.3907	1.3199	Ave		1.2773			0.5000	7.1		15.0			
1,2-Dichloroethane	0.3816 0.4057	0.3590 0.3840	0.4204	0.4247	0.4062	Ave		0.3974			0.1000	5.9		15.0			
Trichloroethene	0.3031 0.3564	0.2737 0.3494	0.3507	0.3656	0.3542	Ave		0.3361			0.2000	10.0		15.0			
Methylcyclohexane	0.4549 0.6282	0.3700 0.6078	0.5615	0.6443	0.5593	Lin1	-0.605	0.6144			0.1000				0.9980		0.9900

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1 Analy Batch No.: 96157

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/17/2012 13:05 Calibration End Date: 12/17/2012 14:47 Calibration ID: 11625

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								
1,2-Dichloropropane	0.2697 0.3260	0.2702 0.3166	0.3229	0.3327	0.3247	Ave		0.3090			0.1000	8.8		15.0			
Dibromomethane	0.1432 0.1991	0.1672 0.1900	0.1809	0.1929	0.1942	Ave		0.1811				11.0		15.0			
Dichlorobromomethane	0.1557 0.3862	0.2391 0.3908	0.3019	0.3396	0.3639	Lin1	-0.709	0.3906			0.1000				0.9990		0.9900
2-Chloroethyl vinyl ether	0.1898 0.2346	0.1938 0.2032	0.2182	0.2302	0.2273	Ave		0.2139				8.5		15.0			
cis-1,3-Dichloropropene	0.3320 0.5006	0.3485 0.4936	0.4176	0.4684	0.4770	Lin1	-0.565	0.4973			0.2000				1.0000		0.9900
4-Methyl-2-pentanone (MIBK)	0.8655 0.9452	0.8148 0.7737	0.8798	0.9302	0.9157	Ave		0.8750			0.0500	7.2		15.0			
Toluene	1.9020 2.0282	1.7719 1.9918	2.1163	2.2205	2.0623	Ave		2.0133			0.4000	7.2		15.0			
Ethyl methacrylate	0.7654 1.0933	0.8088 0.9882	0.9252	1.0300	1.0316	Ave		0.9489				13.0		15.0			
trans-1,3-Dichloropropene	0.6813 1.0262	0.6835 1.0174	0.8532	0.9693	0.9974	Lin1	-1.213	1.0258			0.1000				1.0000		0.9900
1,1,2-Trichloroethane	0.4593 0.5713	0.4711 0.5501	0.5452	0.5739	0.5600	Ave		0.5330			0.1000	8.9		15.0			
Tetrachloroethene	0.8818 0.9794	0.7527 0.9670	1.0230	1.0407	0.9889	Ave		0.9476			0.1000	11.0		15.0			
1,3-Dichloropropane	1.0481 1.1271	1.0316 1.0614	1.1484	1.1942	1.1372	Ave		1.1068				5.5		15.0			
2-Hexanone	0.6221 0.7001	0.5630 0.5561	0.6237	0.6644	0.6639	Ave		0.6276			0.0500	8.5		15.0			
Chlorodibromomethane	0.3756 0.7749	0.4314 0.8054	0.5312	0.6130	0.6867	Lin1	-1.648	0.7874			0.1000				0.9960		0.9900
Ethylene Dibromide	0.6363 0.8054	0.6343 0.7734	0.7323	0.8080	0.7853	Ave		0.7393			0.1000	10.0		15.0			
Chlorobenzene	2.3366 2.4379	2.2164 2.3619	2.5397	2.6547	2.4883	Ave		2.4337			0.5000	5.9		15.0			
Ethylbenzene	3.3610 3.7164	3.1724 3.5614	3.8430	4.0695	3.8117	Ave		3.6479			0.1000	8.4		15.0			
1,1,1,2-Tetrachloroethane	0.5434 0.8207	0.5495 0.8220	0.6664	0.7577	0.7893	Lin1	-1.039	0.8236							0.9990		0.9900
m-Xylene & p-Xylene	1.4532 1.5615	1.3535 1.4836	1.6366	1.7227	1.6127	Ave		1.5463			0.1000	8.1		15.0			
o-Xylene	1.4226 1.5338	1.3201 1.4629	1.5615	1.6699	1.5652	Ave		1.5051			0.3000	7.6		15.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1 Analy Batch No.: 96157

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/17/2012 13:05 Calibration End Date: 12/17/2012 14:47 Calibration ID: 11625

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								
Styrene	2.1024 2.5870	2.1257 2.4528	2.5271	2.7401	2.6215	Ave		2.4509			0.3000	10.0		15.0			
Bromoform	0.1764 0.5172	0.2051 0.5390	0.2739	0.3421	0.4277	Lin1	-1.498	0.5224			0.1000				0.9910		0.9900
Isopropylbenzene	3.1098 3.5148	2.8203 3.5620	3.6773	3.8237	3.5726	Ave		3.4400			0.1000	10.0		15.0			
1,1,2,2-Tetrachloroethane	0.7307 0.9211	0.7027 0.8858	0.8543	0.8812	0.9010	Ave		0.8396			0.3000	10.0		15.0			
Bromobenzene	0.8993 0.9994	0.8841 1.0012	1.0489	1.0719	1.0147	Ave		0.9885				7.2		15.0			
N-Propylbenzene	3.6639 3.9712	3.2757 3.7934	4.1951	4.3637	4.0841	Ave		3.9067				9.3		15.0			
trans-1,4-Dichloro-2-butene	0.1833 0.2405	0.1826 0.2129	0.2063	0.2263	0.2277	Ave		0.2114				11.0		15.0			
1,2,3-Trichloropropane	0.2736 0.2996	0.2581 0.2718	0.3056	0.2938	0.2964	Ave		0.2856				6.2		15.0			
2-Chlorotoluene	0.8524 0.9567	0.8015 0.9601	0.9925	1.0143	0.9643	Ave		0.9345				8.3		15.0			
1,3,5-Trimethylbenzene	2.6657 2.9695	2.4899 2.9253	3.0648	3.1922	3.0178	Ave		2.9036				8.4		15.0			
4-Chlorotoluene	0.8756 0.9763	0.8321 0.9833	1.0039	1.0693	1.0005	Ave		0.9630				8.5		15.0			
tert-Butylbenzene	0.6392 0.7486	0.5945 0.7490	0.7677	0.7946	0.7515	Ave		0.7207				10.0		15.0			
1,2,4-Trimethylbenzene	2.6229 2.9483	2.5112 2.8761	3.0513	3.1721	2.9932	Ave		2.8822				8.2		15.0			
sec-Butylbenzene	3.4596 3.8318	2.9397 3.7126	3.9885	4.1603	3.8893	Ave		3.7117				11.0		15.0			
4-Isopropyltoluene	3.0513 3.5053	2.7595 3.3816	3.5680	3.7816	3.5294	Ave		3.3681				10.0		15.0			
1,3-Dichlorobenzene	1.7858 1.8796	1.7127 1.8382	1.9957	2.0524	1.9079	Ave		1.8818			0.6000	6.2		15.0			
1,4-Dichlorobenzene	1.9281 1.9113	1.7911 1.8374	2.0450	2.0644	1.9160	Ave		1.9276			0.5000	5.2		15.0			
n-Butylbenzene	2.4837 2.7869	2.1415 2.6533	2.7840	2.9721	2.8151	Ave		2.6624				10.0		15.0			
1,2-Dichlorobenzene	1.7415 1.8027	1.6722 1.7257	1.8720	1.9252	1.8130	Ave		1.7932			0.4000	4.9		15.0			
1,2-Dibromo-3-Chloropropane	0.0651 0.1625	0.0423 0.1419	0.0989	0.1160	0.1382	Lin1	-0.353	0.1489			0.0500				0.9920		0.9900

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1 Analy Batch No.: 96157

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/17/2012 13:05 Calibration End Date: 12/17/2012 14:47 Calibration ID: 11625

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								
1,2,4-Trichlorobenzene	1.0472 1.2002	0.9557 1.0056	1.1246	1.2272	1.1651	Ave		1.1037			0.2000	9.3		15.0			
Hexachlorobutadiene	0.5777 0.6222	0.4405 0.5411	0.6095	0.6632	0.6147	Ave		0.5813				13.0		15.0			
Naphthalene	3.1251 3.2548	2.5556 2.5085	2.9197	3.0984	3.0985	Ave		2.9372				10.0		15.0			
1,2,3-Trichlorobenzene	0.9338 1.0772	0.8292 0.8271	0.9966	1.0983	1.0636	Ave		0.9751				12.0		15.0			
1,2-Dichloroethane-d4 (Surr)	 0.1648	0.1627 0.1554	0.1722	0.1775	0.1565	Ave		0.1649				5.3		15.0			
Toluene-d8 (Surr)	 2.7889	2.8786 2.7365	2.9836	3.1457	2.8182	Ave		2.8919				5.2		15.0			
4-Bromofluorobenzene (Surr)	 0.9549	1.0441 0.9160	1.0368	1.0858	0.9348	Ave		0.9954				6.9		15.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1 Analy Batch No.: 96157

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/17/2012 13:05 Calibration End Date: 12/17/2012 14:47 Calibration ID: 11625

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-96157/3	F4390.D
Level 2	STD2 480-96157/4	F4391.D
Level 3	STD3 480-96157/5	F4392.D
Level 4	STD4 480-96157/6	F4393.D
Level 5	STD5 480-96157/7	F4394.D
Level 6	STD6 480-96157/8	F4395.D
Level 7	STD7 480-96157/12	F4396.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			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
Dichlorodifluoromethane	DFB	Lin1	3444 193635	4527 379204	17796	38802	87277	2.50 100	5.00 200	10.0	20.0	50.0
Chloromethane	DFB	Ave	4805 199464	8105 405438	19455	40456	99266	2.50 100	5.00 200	10.0	20.0	50.0
Vinyl chloride	DFB	Lin1	4207 199360	6417 401931	18848	39754	96111	2.50 100	5.00 200	10.0	20.0	50.0
Bromomethane	DFB	Lin	1340 70649	2715 178164	6796	14237	32596	2.50 100	5.00 200	10.0	20.0	50.0
Chloroethane	DFB	Ave	1227 71435	2848 173972	6803	14398	33597	2.50 100	5.00 200	10.0	20.0	50.0
Trichlorofluoromethane	DFB	Lin1	5045 256081	6931 544413	23839	51469	116860	2.50 100	5.00 200	10.0	20.0	50.0
Acrolein	DFB	Ave	20617 874364	38874 1545677	81150	164807	409078	50.0 2000	100 4000	200	400	1000
1,1,2-Trichloro-1,2,2-trifluoroetha ne	DFB	Lin1	4149 235191	6884 472983	20424	47080	101280	2.50 100	5.00 200	10.0	20.0	50.0
1,1-Dichloroethene	DFB	Ave	5168 235237	7748 475213	22638	47253	112617	2.50 100	5.00 200	10.0	20.0	50.0
Acetone	DFB	Ave	13013 497431	22610 844684	45774	89521	233140	12.5 500	25.0 1000	50.0	100	250
Iodomethane	DFB	Ave	8038 373073	16293 743356	34489	74227	178314	2.50 100	5.00 200	10.0	20.0	50.0
Carbon disulfide	DFB	Lin1	14051 727106	23993 1487822	61254	134264	333571	2.50 100	5.00 200	10.0	20.0	50.0
Methyl acetate	DFB	Ave	8373 334078	14478 576783	30755	61491	151753	2.50 100	5.00 200	10.0	20.0	50.0
Acetonitrile	DFB	Ave	24308 926969	41329 1593774	86095	170539	433814	100 4000	200 8000	400	800	2000
Methylene Chloride	DFB	Ave	7084 265068	12997 527420	26796	54505	131055	2.50 100	5.00 200	10.0	20.0	50.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1 Analy Batch No.: 96157

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/17/2012 13:05 Calibration End Date: 12/17/2012 14:47 Calibration ID: 11625

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			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
Methyl tert-butyl ether	DFB	Ave	16144 716823	32075 1355505	65175	136368	337049	2.50 100	5.00 200	10.0	20.0	50.0
trans-1,2-Dichloroethene	DFB	Ave	6247 272139	10861 543627	26946	54925	133876	2.50 100	5.00 200	10.0	20.0	50.0
Acrylonitrile	DFB	Ave	15318 643738	27243 1109642	57638	115892	296321	12.5 500	25.0 1000	50.0	100	250
Vinyl acetate	DFB	Ave	56900 2511929	116158 4402572	246126	501123	1225317	12.5 500	25.0 1000	50.0	100	250
1,1-Dichloroethane	DFB	Ave	10028 418599	18903 834313	43361	85898	208577	2.50 100	5.00 200	10.0	20.0	50.0
2-Butanone (MEK)	DFB	Ave	20136 831150	35658 1367365	73346	146560	381605	12.5 500	25.0 1000	50.0	100	250
2,2-Dichloropropane	DFB	Lin1	6202 327318	11024 668038	29953	63179	157937	2.50 100	5.00 200	10.0	20.0	50.0
cis-1,2-Dichloroethene	DFB	Ave	6871 293929	12889 581388	29045	60049	145058	2.50 100	5.00 200	10.0	20.0	50.0
Chlorobromomethane	DFB	Ave	3404 155117	6355 306814	15215	30452	76320	2.50 100	5.00 200	10.0	20.0	50.0
Tetrahydrofuran	DFB	Ave	13198 548073	23123 903463	48411	96480	251879	12.5 500	25.0 1000	50.0	100	250
Chloroform	DFB	Ave	9961 415748	17761 833761	40526	83311	204952	2.50 100	5.00 200	10.0	20.0	50.0
1,1,1-Trichloroethane	DFB	Lin1	7049 364932	11500 751313	32363	70232	173677	2.50 100	5.00 200	10.0	20.0	50.0
Cyclohexane	DFB	Lin1	9071 457508	15015 909302	41111	90357	204441	2.50 100	5.00 200	10.0	20.0	50.0
1,1-Dichloropropene	DFB	Ave	7327 336371	12126 672803	33223	66329	161084	2.50 100	5.00 200	10.0	20.0	50.0
Carbon tetrachloride	DFB	Lin1	4869 313317	7971 674052	23896	53808	140809	2.50 100	5.00 200	10.0	20.0	50.0
Benzene	DFB	Ave	24716 1000297	44154 1971663	101808	204904	495767	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dichloroethane	DFB	Ave	7672 313411	14177 610683	31733	62572	152590	2.50 100	5.00 200	10.0	20.0	50.0
Trichloroethene	DFB	Ave	6094 275340	10807 555684	26471	53864	133024	2.50 100	5.00 200	10.0	20.0	50.0
Methylcyclohexane	DFB	Lin1	9145 485303	14611 966725	42389	94927	210064	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dichloropropane	DFB	Ave	5423 251818	10669 503548	24378	49022	121957	2.50 100	5.00 200	10.0	20.0	50.0
Dibromomethane	DFB	Ave	2879 153845	6601 302232	13654	28421	72928	2.50 100	5.00 200	10.0	20.0	50.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1 Analy Batch No.: 96157

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/17/2012 13:05 Calibration End Date: 12/17/2012 14:47 Calibration ID: 11625

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			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
Dichlorobromomethane	DFB	Lin1	3131 298355	9440 621618	22790	50035	136701	2.50 100	5.00 200	10.0	20.0	50.0
2-Chloroethyl vinyl ether	DFB	Ave	19081 906150	38270 1616133	82362	169569	426856	12.5 500	25.0 1000	50.0	100	250
cis-1,3-Dichloropropene	DFB	Lin1	6674 386716	13761 785045	31522	69010	179177	2.50 100	5.00 200	10.0	20.0	50.0
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	36720 1569801	67281 2588706	140977	287134	734574	12.5 500	25.0 1000	50.0	100	250
Toluene	CBZ	Ave	16139 673678	29264 1332776	67822	137082	330879	2.50 100	5.00 200	10.0	20.0	50.0
Ethyl methacrylate	CBZ	Ave	6495 363157	13357 661246	29649	63586	165518	2.50 100	5.00 200	10.0	20.0	50.0
trans-1,3-Dichloropropene	CBZ	Lin1	5781 340873	11288 680801	27342	59839	160022	2.50 100	5.00 200	10.0	20.0	50.0
1,1,2-Trichloroethane	CBZ	Ave	3897 189759	7781 368083	17471	35431	89843	2.50 100	5.00 200	10.0	20.0	50.0
Tetrachloroethene	CBZ	Ave	7482 325304	12431 647042	32784	64246	158669	2.50 100	5.00 200	10.0	20.0	50.0
1,3-Dichloropropane	CBZ	Ave	8893 374366	17037 710242	36802	73722	182455	2.50 100	5.00 200	10.0	20.0	50.0
2-Hexanone	CBZ	Ave	26395 1162768	46493 1860572	99946	205089	532588	12.5 500	25.0 1000	50.0	100	250
Chlorodibromomethane	CBZ	Lin1	3187 257382	7125 538930	17023	37845	110180	2.50 100	5.00 200	10.0	20.0	50.0
Ethylene Dibromide	CBZ	Ave	5399 267534	10476 517479	23467	49880	125999	2.50 100	5.00 200	10.0	20.0	50.0
Chlorobenzene	CBZ	Ave	19827 809750	36606 1580446	81391	163884	399228	2.50 100	5.00 200	10.0	20.0	50.0
Ethylbenzene	CBZ	Ave	28519 1234419	52394 2383094	123158	251228	611561	2.50 100	5.00 200	10.0	20.0	50.0
1,1,1,2-Tetrachloroethane	CBZ	Lin1	4611 272605	9076 550016	21355	46776	126642	2.50 100	5.00 200	10.0	20.0	50.0
m-Xylene & p-Xylene	CBZ	Ave	24661 1037308	44709 1985508	104897	212695	517496	5.00 200	10.0 400	20.0	40.0	100
o-Xylene	CBZ	Ave	12071 509459	21803 978880	50041	103092	251121	2.50 100	5.00 200	10.0	20.0	50.0
Styrene	CBZ	Ave	17839 859276	35108 1641262	80988	169160	420599	2.50 100	5.00 200	10.0	20.0	50.0
Bromoform	CBZ	Lin1	1497 171804	3387 360680	8777	21122	68628	2.50 100	5.00 200	10.0	20.0	50.0
Isopropylbenzene	DCB	Ave	29468 1300991	51351 2497297	127196	263996	641525	2.50 100	5.00 200	10.0	20.0	50.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1 Analy Batch No.: 96157

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/17/2012 13:05 Calibration End Date: 12/17/2012 14:47 Calibration ID: 11625

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			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
1,1,2,2-Tetrachloroethane	DCB	Ave	6924 340931	12795 621032	29550	60843	161801	2.50 100	5.00 200	10.0	20.0	50.0
Bromobenzene	DCB	Ave	8522 369915	16097 701921	36282	74010	182207	2.50 100	5.00 200	10.0	20.0	50.0
N-Propylbenzene	DCB	Ave	34719 1469919	59643 2659519	145106	301280	733386	2.50 100	5.00 200	10.0	20.0	50.0
trans-1,4-Dichloro-2-butene	DCB	Ave	8686 445099	16624 746235	35677	78110	204459	12.5 500	25.0 1000	50.0	100	250
1,2,3-Trichloropropane	DCB	Ave	2593 110911	4699 190539	10570	20285	53233	2.50 100	5.00 200	10.0	20.0	50.0
2-Chlorotoluene	DCB	Ave	8077 354127	14594 673120	34329	70030	173167	2.50 100	5.00 200	10.0	20.0	50.0
1,3,5-Trimethylbenzene	DCB	Ave	25260 1099167	45335 2050901	106010	220397	541912	2.50 100	5.00 200	10.0	20.0	50.0
4-Chlorotoluene	DCB	Ave	8297 361363	15150 689352	34724	73827	179667	2.50 100	5.00 200	10.0	20.0	50.0
tert-Butylbenzene	DCB	Ave	6057 277076	10825 525089	26554	54860	134940	2.50 100	5.00 200	10.0	20.0	50.0
1,2,4-Trimethylbenzene	DCB	Ave	24854 1091313	45724 2016416	105543	219010	537496	2.50 100	5.00 200	10.0	20.0	50.0
sec-Butylbenzene	DCB	Ave	32783 1418344	53526 2602892	137961	287237	698408	2.50 100	5.00 200	10.0	20.0	50.0
4-Isopropyltoluene	DCB	Ave	28914 1297486	50245 2370820	123416	261094	633782	2.50 100	5.00 200	10.0	20.0	50.0
1,3-Dichlorobenzene	DCB	Ave	16922 695739	31185 1288731	69032	141704	342595	2.50 100	5.00 200	10.0	20.0	50.0
1,4-Dichlorobenzene	DCB	Ave	18270 707446	32612 1288166	70735	142533	344052	2.50 100	5.00 200	10.0	20.0	50.0
n-Butylbenzene	DCB	Ave	23535 1031559	38992 1860176	96299	205199	505507	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dichlorobenzene	DCB	Ave	16502 667261	30448 1209906	64751	132919	325565	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCB	Lin1	617 60147	771 99512	3422	8007	24824	2.50 100	5.00 200	10.0	20.0	50.0
1,2,4-Trichlorobenzene	DCB	Ave	9923 444246	17402 704988	38900	84732	209211	2.50 100	5.00 200	10.0	20.0	50.0
Hexachlorobutadiene	DCB	Ave	5474 230319	8020 379329	21081	45787	110386	2.50 100	5.00 200	10.0	20.0	50.0
Naphthalene	DCB	Ave	29613 1204755	46533 1758675	100993	213920	556405	2.50 100	5.00 200	10.0	20.0	50.0
1,2,3-Trichlorobenzene	DCB	Ave	8849 398722	15098 579860	34471	75828	190996	2.50 100	5.00 200	10.0	20.0	50.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1 Analy Batch No.: 96157

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/17/2012 13:05 Calibration End Date: 12/17/2012 14:47 Calibration ID: 11625

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2-Dichloroethane-d4 (Surr)	DFB	Ave	127278	6426 247165	13003	26152	58798	100	5.00 200	10.0	20.0	50.0
Toluene-d8 (Surr)	CBZ	Ave	926359	47541 1831091	95617	194196	452163	100	5.00 200	10.0	20.0	50.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	317175	17244 612918	33227	67032	149988	100	5.00 200	10.0	20.0	50.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F4390.D		
Lims ID:	STD1	Client ID:	
Inject. Date:	17-Dec-2012 12:14:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	STD1		
Misc. Info.:	480-0017620-003 =480-0017620-003		
Operator:	jmb	Instrument ID:	HP5973F
Purge Vol:	5.000 mL	ALS Bottle#:	3
Lims Batch ID:	96157	Lims Sample ID:	3
Sublist:	chrom-F-8260 SOIL*sub1		
Detector:	MS SCAN		

Method:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F-8260 SOIL.m		
Last Update:	26-Dec-2012 09:55:54	Calib Date:	17-Dec-2012 14:47:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F4396.D		
Limit Group:	MV - 8260MCP_RCP		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK019		

First Level Reviewer: ByrnesJ Date: 26-Dec-2012 09:52:58

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.614	5.608	0.006	92	402099	50.0	
* 2 Chlorobenzene-d5	82	8.388	8.382	0.006	80	169705	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	92	189517	50.0	
10 Dichlorodifluoromethane	85	2.007	2.001	0.006	27	3444	2.83	
12 Chloromethane	50	2.147	2.153	-0.006	40	4805	2.38	
13 Vinyl chloride	62	2.268	2.274	-0.006	20	4207	2.74	
14 Bromomethane	94	2.554	2.554	0.0	10	1340	6.15	
15 Chloroethane	64	2.633	2.633	0.0	13	1227	1.74	
17 Trichlorofluoromethane	101	2.852	2.852	0.0	19	5045	2.97	
20 Acrolein	56	3.199	3.193	0.006	80	20617	48.5	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.230	3.230	0.0	10	4149	2.81	
22 1,1-Dichloroethene	96	3.260	3.260	0.0	53	5168	2.28	
23 Acetone	43	3.315	3.309	0.006	79	13013	13.4	
25 Iodomethane	142	3.424	3.424	0.0	74	8038	2.19	
26 Carbon disulfide	76	3.479	3.479	0.0	79	14051	2.91	
27 Methyl acetate	43	3.534	3.528	0.006	75	8373	2.60	
29 Acetonitrile	40	3.570	3.564	0.006	100	24308	107.0	
30 Methylene Chloride	84	3.649	3.649	0.0	72	7084	2.54	
32 Methyl tert-butyl ether	73	3.807	3.807	0.0	63	16144	2.31	
34 trans-1,2-Dichloroethene	96	3.844	3.838	0.006	71	6247	2.30	
33 Acrylonitrile	53	3.862	3.856	0.006	87	15318	12.5	
37 Vinyl acetate	43	4.160	4.160	0.0	94	56900	11.4	
39 1,1-Dichloroethane	63	4.179	4.179	0.0	5	10028	2.32	
43 2-Butanone (MEK)	43	4.623	4.623	0.0	96	20136	12.8	
44 2,2-Dichloropropane	77	4.629	4.629	0.0	9	6202	2.71	
45 cis-1,2-Dichloroethene	96	4.635	4.635	0.0	23	6871	2.31	
48 Chlorobromomethane	128	4.848	4.842	0.006	60	3404	2.22	
49 Tetrahydrofuran	42	4.866	4.860	0.006	81	13198	12.8	
50 Chloroform	83	4.878	4.878	0.0	47	9961	2.37	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
51 1,1,1-Trichloroethane	97	5.024	5.024	0.0	46	7049	2.85	
52 Cyclohexane	56	5.055	5.055	0.0	59	9071	2.74	
54 1,1-Dichloropropene	75	5.146	5.140	0.006	52	7327	2.24	
55 Carbon tetrachloride	117	5.152	5.152	0.0	41	4869	3.24	
57 Benzene	78	5.334	5.334	0.0	77	24716	2.41	
58 1,2-Dichloroethane	62	5.371	5.371	0.0	50	7672	2.40	
62 Trichloroethene	95	5.858	5.858	0.0	49	6094	2.25	
64 Methylcyclohexane	83	5.998	5.991	0.007	52	9145	2.83	
65 1,2-Dichloropropane	63	6.077	6.077	0.0	42	5423	2.18	
67 Dibromomethane	93	6.217	6.210	0.007	60	2879	1.98	
68 Dichlorobromomethane	83	6.320	6.320	0.0	5	3131	2.81	
69 2-Chloroethyl vinyl ether	63	6.527	6.527	0.0	76	19081	11.1	
72 cis-1,3-Dichloropropene	75	6.703	6.703	0.0	46	6674	2.80	
73 4-Methyl-2-pentanone (MIBK)	43	6.801	6.801	0.0	88	36720	12.4	
74 Toluene	92	6.995	6.995	0.0	73	16139	2.36	
75 Ethyl methacrylate	69	7.220	7.214	0.006	24	6495	2.02	
77 trans-1,3-Dichloropropene	75	7.226	7.220	0.006	36	5781	2.84	
79 1,1,2-Trichloroethane	83	7.415	7.421	-0.006	17	3897	2.15	
81 Tetrachloroethene	166	7.518	7.525	-0.007	68	7482	2.33	
82 1,3-Dichloropropane	76	7.585	7.585	0.0	32	8893	2.37	
80 2-Hexanone	43	7.598	7.591	0.007	89	26395	12.4	
83 Chlorodibromomethane	129	7.829	7.829	0.0	1	3187	3.29	
84 Ethylene Dibromide	107	7.956	7.963	-0.007	41	5399	2.15	
87 Chlorobenzene	112	8.413	8.413	0.0	78	19827	2.40	
88 Ethylbenzene	91	8.474	8.474	0.0	79	28519	2.30	
89 1,1,1,2-Tetrachloroethane	131	8.492	8.492	0.0	49	4611	2.91	
90 m-Xylene & p-Xylene	106	8.589	8.589	0.0	96	24661	4.70	
91 o-Xylene	106	9.021	9.027	-0.006	70	12071	2.36	
92 Styrene	104	9.045	9.045	0.0	73	17839	2.14	
95 Bromoform	173	9.325	9.325	0.0	2	1497	3.71	
94 Isopropylbenzene	105	9.386	9.386	0.0	61	29468	2.26	
97 1,1,2,2-Tetrachloroethane	83	9.757	9.757	0.0	1	6924	2.18	
101 Bromobenzene	156	9.769	9.769	0.0	62	8522	2.27	
98 trans-1,4-Dichloro-2-butene	53	9.806	9.800	0.006	37	8686	10.8	
99 N-Propylbenzene	91	9.800	9.800	0.0	85	34719	2.34	
100 1,2,3-Trichloropropane	110	9.812	9.812	0.0	22	2593	2.40	
103 2-Chlorotoluene	126	9.934	9.934	0.0	73	8077	2.28	
102 1,3,5-Trimethylbenzene	105	9.958	9.964	-0.006	53	25260	2.30	
105 4-Chlorotoluene	126	10.037	10.037	0.0	59	8297	2.27	
106 tert-Butylbenzene	134	10.280	10.280	0.0	62	6057	2.22	
107 1,2,4-Trimethylbenzene	105	10.329	10.329	0.0	68	24854	2.28	
109 sec-Butylbenzene	105	10.481	10.481	0.0	54	32783	2.33	
110 4-Isopropyltoluene	119	10.603	10.603	0.0	72	28914	2.26	
111 1,3-Dichlorobenzene	146	10.645	10.645	0.0	54	16922	2.37	
113 1,4-Dichlorobenzene	146	10.724	10.725	0.0	78	18270	2.50	
115 n-Butylbenzene	91	10.974	10.974	0.0	78	23535	2.33	
116 1,2-Dichlorobenzene	146	11.071	11.065	0.006	71	16502	2.43	
117 1,2-Dibromo-3-Chloropropane	75	11.740	11.740	0.0	1	617	3.47	
119 1,2,4-Trichlorobenzene	180	12.385	12.391	-0.006	42	9923	2.37	
120 Hexachlorobutadiene	225	12.483	12.483	0.0	36	5474	2.48	
121 Naphthalene	128	12.623	12.623	0.0	66	29613	2.66	
122 1,2,3-Trichlorobenzene	180	12.842	12.842	0.0	40	8849	2.39	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
S 123 Total BTEX	1				0		14.1	
S 124 Xylenes, Total	1				0		7.06	
S 125 1,2-Dichloroethene, Total	1				0		4.61	
S 126 1,3-Dichloropropene, Total	1				0		5.65	

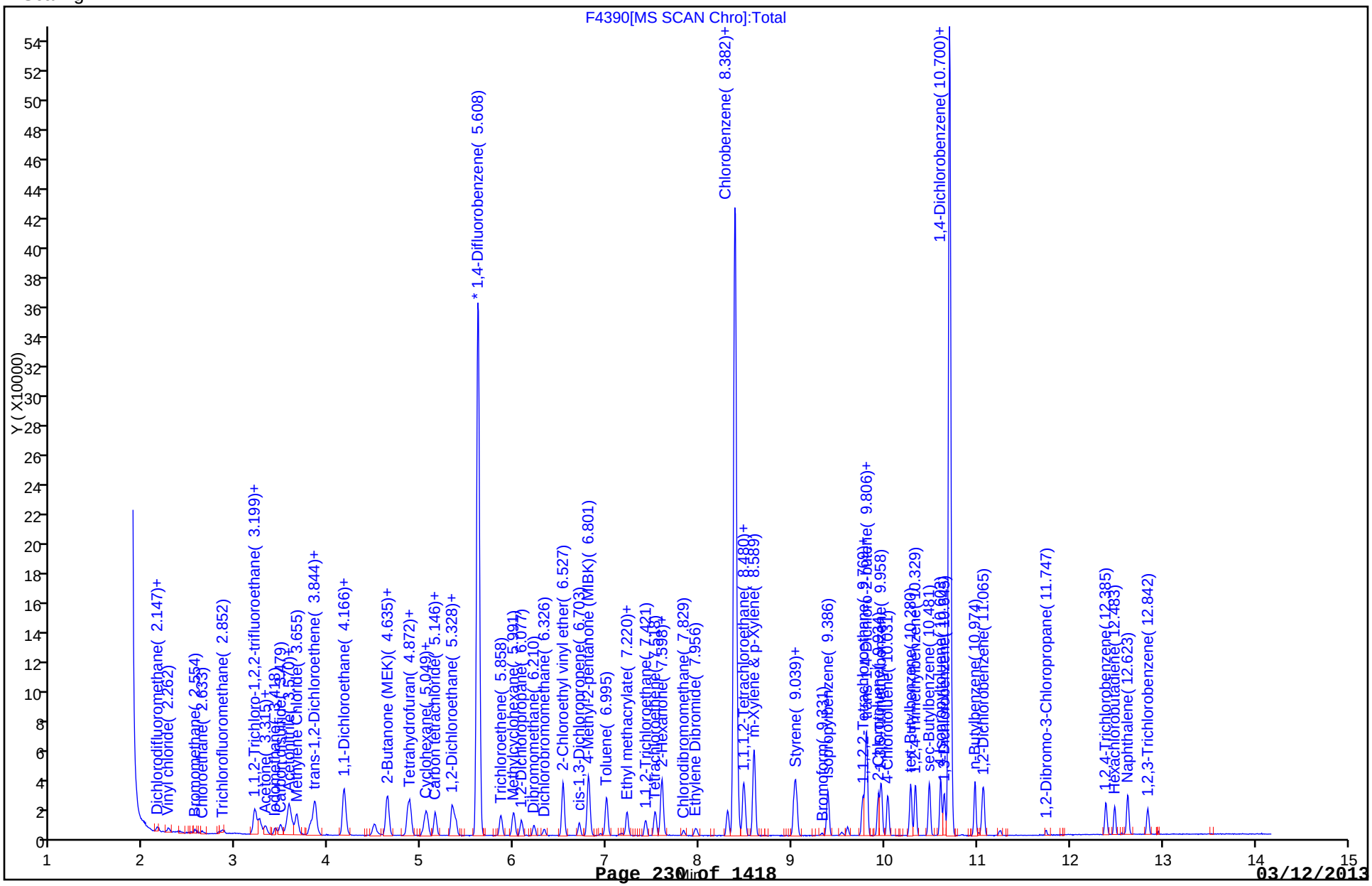
Report Date: 26-Dec-2012 09:55:54 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20121217-17620.b\F4390.D

Injection Date:	17-Dec-2012 12:14:30	Limit Group:	MV - 8260MCP_RCP
Client ID:		Instrument ID:	HP5973F
Lims Batch ID:	96157	Lims Sample ID:	3
Operator ID:	jmb	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F4391.D		
Lims ID:	STD2	Client ID:	
Inject. Date:	17-Dec-2012 12:40:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	STD2		
Misc. Info.:	480-0017620-004 =480-0017620-004		
Operator:	jmb	Instrument ID:	HP5973F
Purge Vol:	5.000 mL	ALS Bottle#:	4
Lims Batch ID:	96157	Lims Sample ID:	4
Sublist:	chrom-F-8260 SOIL*sub1		
Detector:	MS SCAN		

Method:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F-8260 SOIL.m		
Last Update:	26-Dec-2012 09:55:55	Calib Date:	17-Dec-2012 14:47:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F4396.D		
Limit Group:	MV - 8260MCP_RCP		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK019		

First Level Reviewer: ByrnesJ Date: 17-Dec-2012 16:03:53

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.608	5.608	0.0	93	394880	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	80	165156	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	91	182079	50.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.304	5.304	0.0	85	6426	4.94	
$ 5 Toluene-d8 (Surr)	98	6.934	6.934	0.0	69	47541	4.98	
$ 6 4-Bromofluorobenzene (Surr)	174	9.599	9.599	0.0	77	17244	5.24	
10 Dichlorodifluoromethane	85	1.988	2.001	-0.013	28	4527	3.42	
12 Chloromethane	50	2.147	2.153	-0.006	57	8105	4.10	
13 Vinyl chloride	62	2.262	2.274	-0.012	33	6417	3.86	
14 Bromomethane	94	2.554	2.554	0.0	9	2715	7.76	
15 Chloroethane	64	2.627	2.633	-0.006	33	2848	4.12	
17 Trichlorofluoromethane	101	2.846	2.852	-0.006	18	6931	3.71	
20 Acrolein	56	3.187	3.193	-0.006	88	38874	93.2	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.217	3.230	-0.013	9	6884	4.00	
22 1,1-Dichloroethene	96	3.254	3.260	-0.006	67	7748	3.47	
23 Acetone	43	3.309	3.309	0.0	81	22610	23.7	
25 Iodomethane	142	3.418	3.424	-0.006	74	16293	4.52	
26 Carbon disulfide	76	3.473	3.479	-0.006	77	23993	4.29	
27 Methyl acetate	43	3.528	3.528	0.0	86	14478	4.57	
29 Acetonitrile	40	3.564	3.564	0.0	100	41329	185.2	
30 Methylene Chloride	84	3.649	3.649	0.0	70	12997	4.74	
32 Methyl tert-butyl ether	73	3.807	3.807	0.0	78	32075	4.67	
34 trans-1,2-Dichloroethene	96	3.838	3.838	0.0	78	10861	4.07	
33 Acrylonitrile	53	3.850	3.856	-0.006	95	27243	22.7	
37 Vinyl acetate	43	4.154	4.160	-0.006	96	116158	23.7	
39 1,1-Dichloroethane	63	4.172	4.179	-0.007	48	18903	4.46	
43 2-Butanone (MEK)	43	4.623	4.623	0.0	96	35658	23.2	
44 2,2-Dichloropropane	77	4.629	4.629	0.0	36	11024	4.18	
45 cis-1,2-Dichloroethene	96	4.635	4.635	0.0	55	12889	4.41	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
48 Chlorobromomethane	128	4.842	4.842	0.0	72	6355	4.22	
49 Tetrahydrofuran	42	4.860	4.860	0.0	85	23123	22.8	
50 Chloroform	83	4.878	4.878	0.0	56	17761	4.31	
51 1,1,1-Trichloroethane	97	5.018	5.024	-0.006	64	11500	4.07	
52 Cyclohexane	56	5.055	5.055	0.0	62	15015	4.07	
54 1,1-Dichloropropene	75	5.140	5.140	0.0	64	12126	3.77	
55 Carbon tetrachloride	117	5.152	5.152	0.0	52	7971	4.21	
57 Benzene	78	5.328	5.334	-0.006	88	44154	4.38	
58 1,2-Dichloroethane	62	5.365	5.371	-0.006	57	14177	4.52	
62 Trichloroethene	95	5.851	5.858	-0.007	71	10807	4.07	
64 Methylcyclohexane	83	5.991	5.991	0.0	61	14611	4.00	
65 1,2-Dichloropropane	63	6.077	6.077	0.0	63	10669	4.37	
67 Dibromomethane	93	6.217	6.210	0.006	71	6601	4.62	
68 Dichlorobromomethane	83	6.320	6.320	0.0	52	9440	4.88	
69 2-Chloroethyl vinyl ether	63	6.527	6.527	0.0	84	38270	22.7	
72 cis-1,3-Dichloropropene	75	6.703	6.703	0.0	55	13761	4.64	
73 4-Methyl-2-pentanone (MIBK)	43	6.801	6.801	0.0	89	67281	23.3	
74 Toluene	92	7.001	6.995	0.006	89	29264	4.40	
75 Ethyl methacrylate	69	7.214	7.214	0.0	61	13357	4.26	
77 trans-1,3-Dichloropropene	75	7.220	7.220	0.0	61	11288	4.51	
79 1,1,2-Trichloroethane	83	7.415	7.421	-0.006	59	7781	4.42	
81 Tetrachloroethene	166	7.518	7.525	-0.007	78	12431	3.97	
82 1,3-Dichloropropane	76	7.585	7.585	0.0	67	17037	4.66	
80 2-Hexanone	43	7.597	7.591	0.006	93	46493	22.4	
83 Chlorodibromomethane	129	7.829	7.829	0.0	23	7125	4.83	
84 Ethylene Dibromide	107	7.962	7.963	-0.001	41	10476	4.29	
87 Chlorobenzene	112	8.413	8.413	0.0	90	36606	4.55	
88 Ethylbenzene	91	8.474	8.474	0.0	84	52394	4.35	
89 1,1,1,2-Tetrachloroethane	131	8.492	8.492	0.0	53	9076	4.60	
90 m-Xylene & p-Xylene	106	8.589	8.589	0.0	99	44709	8.75	
91 o-Xylene	106	9.027	9.027	0.0	81	21803	4.39	
92 Styrene	104	9.045	9.045	0.0	87	35108	4.34	
95 Bromoform	173	9.319	9.325	-0.006	0	3387	4.83	
94 Isopropylbenzene	105	9.386	9.386	0.0	75	51351	4.10	
97 1,1,2,2-Tetrachloroethane	83	9.757	9.757	0.0	65	12795	4.19	
101 Bromobenzene	156	9.769	9.769	0.0	78	16097	4.47	
98 trans-1,4-Dichloro-2-butene	53	9.800	9.800	0.0	40	16624	21.6	
99 N-Propylbenzene	91	9.800	9.800	0.0	87	59643	4.19	
100 1,2,3-Trichloropropane	110	9.812	9.812	0.0	27	4699	4.52	
103 2-Chlorotoluene	126	9.934	9.934	0.0	88	14594	4.29	
102 1,3,5-Trimethylbenzene	105	9.964	9.964	0.0	68	45335	4.29	
105 4-Chlorotoluene	126	10.031	10.037	-0.006	81	15150	4.32	
106 tert-Butylbenzene	134	10.280	10.280	0.0	74	10825	4.12	
107 1,2,4-Trimethylbenzene	105	10.335	10.329	0.006	78	45724	4.36	
109 sec-Butylbenzene	105	10.481	10.481	0.0	72	53526	3.96	
110 4-Isopropyltoluene	119	10.603	10.603	0.0	85	50245	4.10	
111 1,3-Dichlorobenzene	146	10.645	10.645	0.0	78	31185	4.55	
113 1,4-Dichlorobenzene	146	10.724	10.725	0.0	76	32612	4.65	
115 n-Butylbenzene	91	10.974	10.974	0.0	85	38992	4.02	
116 1,2-Dichlorobenzene	146	11.065	11.065	0.0	89	30448	4.66	
117 1,2-Dibromo-3-Chloropropane	75	11.746	11.740	0.006	1	771	3.79	M
119 1,2,4-Trichlorobenzene	180	12.391	12.391	0.0	61	17402	4.33	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
120 Hexachlorobutadiene	225	12.483	12.483	0.0	49	8020	3.79	
121 Naphthalene	128	12.623	12.623	-0.001	80	46533	4.35	
122 1,2,3-Trichlorobenzene	180	12.842	12.842	0.0	55	15098	4.25	
S 123 Total BTEX	1				0		26.3	
S 124 Xylenes, Total	1				0		13.1	
S 125 1,2-Dichloroethene, Total	1				0		8.48	
S 126 1,3-Dichloropropene, Total	1				0		9.15	

QC Flag Legend

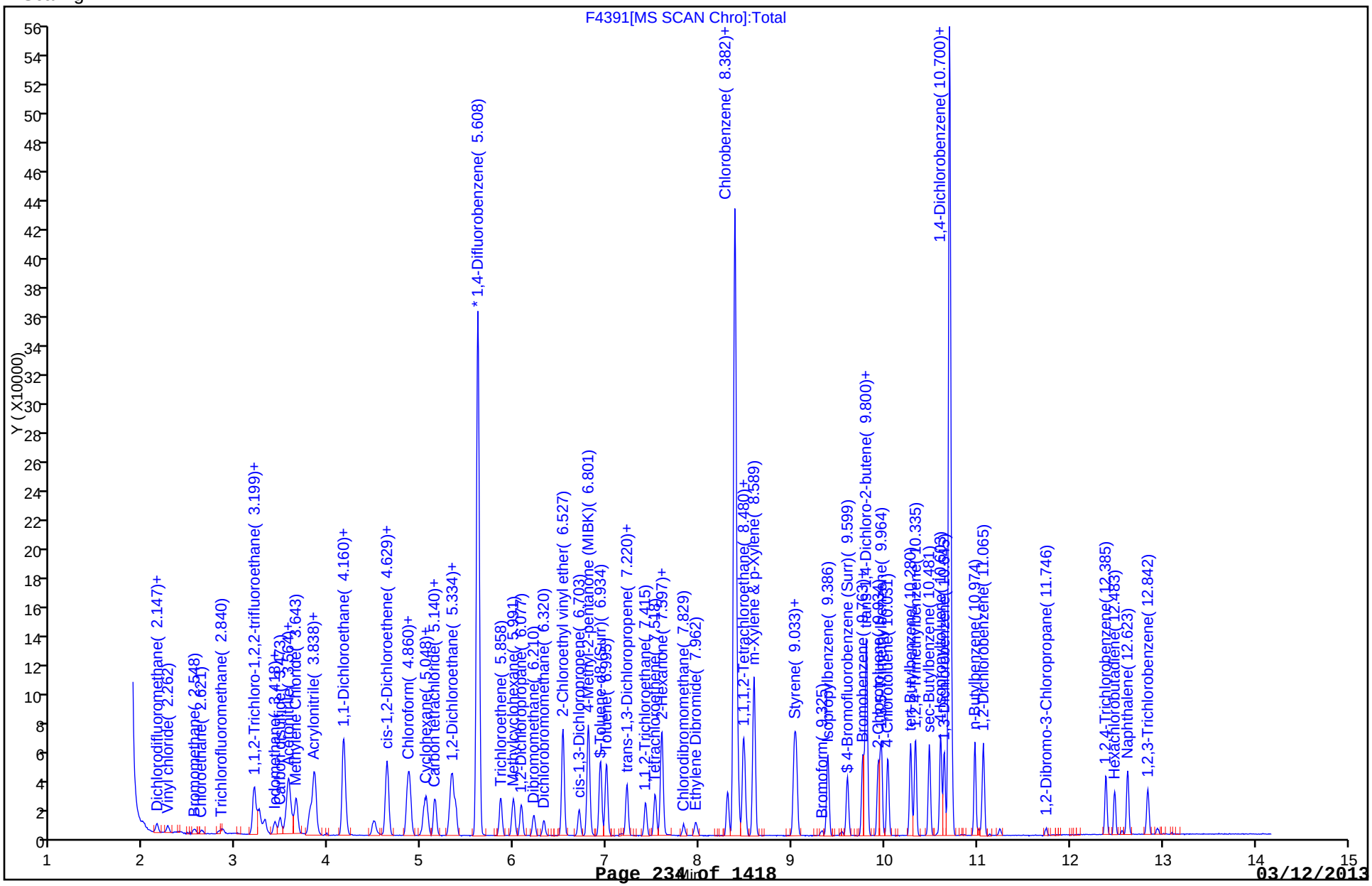
Review Flags
M - Manually Integrated

Report Date: 26-Dec-2012 09:55:55 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F4391.D		
Injection Date:	17-Dec-2012 12:40:30	Limit Group:	MV - 8260MCP_RCP
Client ID:		Instrument ID:	HP5973F
Lims Batch ID:	96157	Lims Sample ID:	4
Operator ID:	jmb	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



Report Date: 26-Dec-2012 09:55:55 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

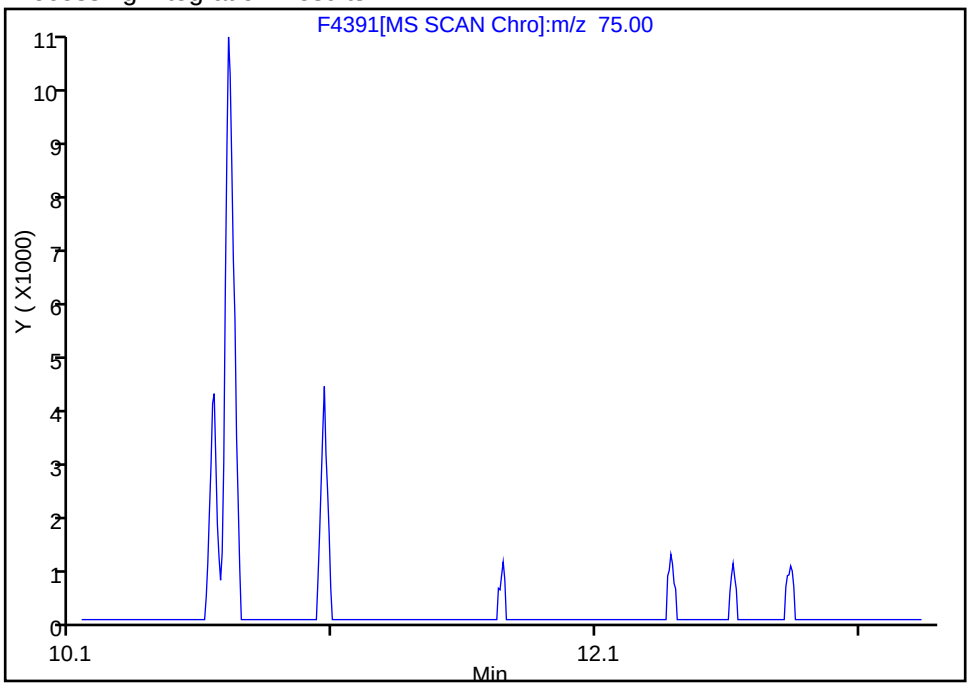
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F4391.D		
Injection Date:	17-Dec-2012 12:40:30	Limit Group:	MV - 8260MCP_RCP
Client ID:		Instrument ID:	HP5973F
Lims Batch ID:	96157	Lims Sample ID:	4
Operator ID:	jmb	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

117 1,2-Dibromo-3-Chloropropane, Signal: 1, m/z: 75.0 Type: quant, RT: 11.74

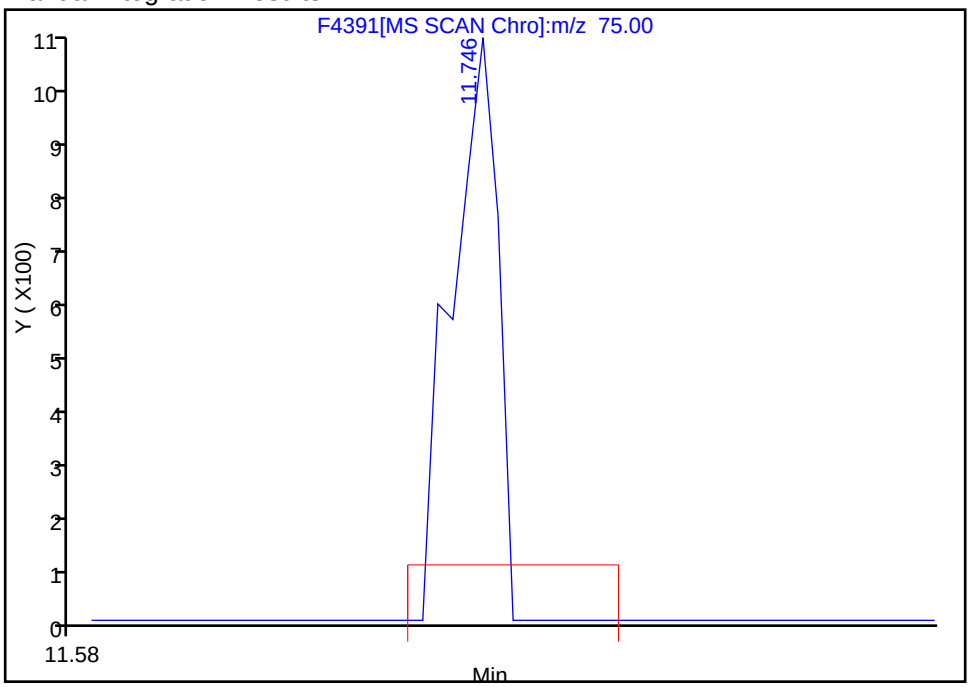
Processing Integration Results

Not Detected
Expected RT: 11.74



Manual Integration Results

RT: 11.75
Response: 771
Amount: 3.794650



Reviewer: ByrnesJ, 17-Dec-2012 15:41:54
Audit Action: Manually Integrated
Audit Reason: Assign Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F4392.D		
Lims ID:	STD3	Client ID:	
Inject. Date:	17-Dec-2012 13:05:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	STD3		
Misc. Info.:	480-0017620-005 =480-0017620-005		
Operator:	jmb	Instrument ID:	HP5973F
Purge Vol:	5.000 mL	ALS Bottle#:	5
Lims Batch ID:	96157	Lims Sample ID:	5
Sublist:	chrom-F-8260 SOIL*sub1		
Detector:	MS SCAN		

Method:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F-8260 SOIL.m		
Last Update:	26-Dec-2012 09:55:46	Calib Date:	17-Dec-2012 14:47:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F4396.D		
Limit Group:	MV - 8260MCP_RCP		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK019		

First Level Reviewer: ByrnesJ Date: 17-Dec-2012 16:03:59

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.608	5.608	0.0	93	377449	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	79	160236	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	85	172949	50.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.304	5.304	0.0	88	13003	10.4	
$ 5 Toluene-d8 (Surr)	98	6.935	6.934	0.001	86	95617	10.3	
$ 6 4-Bromofluorobenzene (Surr)	174	9.599	9.599	0.0	87	33227	10.4	
10 Dichlorodifluoromethane	85	2.001	2.001	0.0	67	17796	10.7	
12 Chloromethane	50	2.147	2.153	-0.006	86	19455	10.3	
13 Vinyl chloride	62	2.268	2.274	-0.006	52	18848	10.4	
14 Bromomethane	94	2.554	2.554	0.0	74	6796	12.8	
15 Chloroethane	64	2.627	2.633	-0.006	63	6803	10.3	
17 Trichlorofluoromethane	101	2.852	2.852	0.0	65	23839	10.4	
20 Acrolein	56	3.199	3.193	0.006	91	81150	203.5	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.230	3.230	0.0	56	20424	10.1	
22 1,1-Dichloroethene	96	3.260	3.260	0.0	85	22638	10.6	
23 Acetone	43	3.309	3.309	0.0	95	45774	50.2	
25 Iodomethane	142	3.418	3.424	-0.006	91	34489	10.0	
26 Carbon disulfide	76	3.479	3.479	0.0	94	61254	9.70	
27 Methyl acetate	43	3.528	3.528	0.0	92	30755	10.2	
29 Acetonitrile	40	3.564	3.564	0.0	100	86095	403.7	
30 Methylene Chloride	84	3.649	3.649	0.0	82	26796	10.2	
32 Methyl tert-butyl ether	73	3.808	3.807	0.001	85	65175	9.94	
34 trans-1,2-Dichloroethene	96	3.838	3.838	0.0	97	26946	10.6	
33 Acrylonitrile	53	3.856	3.856	0.0	98	57638	50.2	
37 Vinyl acetate	43	4.160	4.160	0.0	97	246126	52.6	
39 1,1-Dichloroethane	63	4.179	4.179	0.0	60	43361	10.7	
43 2-Butanone (MEK)	43	4.623	4.623	0.0	98	73346	49.8	
44 2,2-Dichloropropane	77	4.629	4.629	0.0	48	29953	10.2	
45 cis-1,2-Dichloroethene	96	4.635	4.635	0.0	65	29045	10.4	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
48 Chlorobromomethane	128	4.842	4.842	0.0	80	15215	10.6	
49 Tetrahydrofuran	42	4.866	4.860	0.006	88	48411	50.0	
50 Chloroform	83	4.878	4.878	0.0	74	40526	10.3	
51 1,1,1-Trichloroethane	97	5.030	5.024	0.006	76	32363	10.0	
52 Cyclohexane	56	5.055	5.055	0.0	84	41111	10.2	
54 1,1-Dichloropropene	75	5.146	5.140	0.006	85	33223	10.8	
55 Carbon tetrachloride	117	5.158	5.152	0.006	70	23896	9.39	
57 Benzene	78	5.335	5.334	0.001	95	101808	10.6	
58 1,2-Dichloroethane	62	5.371	5.371	0.0	71	31733	10.6	
62 Trichloroethene	95	5.852	5.858	-0.006	84	26471	10.4	
64 Methylcyclohexane	83	5.992	5.991	0.001	81	42389	10.1	
65 1,2-Dichloropropane	63	6.083	6.077	0.006	86	24378	10.5	
67 Dibromomethane	93	6.211	6.210	0.001	76	13654	9.99	
68 Dichlorobromomethane	83	6.320	6.320	0.0	76	22790	9.55	
69 2-Chloroethyl vinyl ether	63	6.527	6.527	0.0	88	82362	51.0	
72 cis-1,3-Dichloropropene	75	6.703	6.703	0.0	71	31522	9.53	
73 4-Methyl-2-pentanone (MIBK)	43	6.801	6.801	0.0	96	140977	50.3	
74 Toluene	92	6.995	6.995	0.0	97	67822	10.5	
75 Ethyl methacrylate	69	7.220	7.214	0.006	87	29649	9.75	
77 trans-1,3-Dichloropropene	75	7.220	7.220	0.0	84	27342	9.50	
79 1,1,2-Trichloroethane	83	7.421	7.421	0.0	67	17471	10.2	
81 Tetrachloroethene	166	7.519	7.525	-0.006	89	32784	10.8	
82 1,3-Dichloropropane	76	7.585	7.585	0.0	82	36802	10.4	
80 2-Hexanone	43	7.598	7.591	0.007	95	99946	49.7	
83 Chlorodibromomethane	129	7.835	7.829	0.006	49	17023	8.84	
84 Ethylene Dibromide	107	7.963	7.963	0.0	80	23467	9.91	
87 Chlorobenzene	112	8.413	8.413	0.0	93	81391	10.4	
88 Ethylbenzene	91	8.480	8.474	0.006	96	123158	10.5	
89 1,1,1,2-Tetrachloroethane	131	8.492	8.492	0.0	78	21355	9.35	
90 m-Xylene & p-Xylene	106	8.589	8.589	0.0	99	104897	21.2	
91 o-Xylene	106	9.027	9.027	0.0	90	50041	10.4	
92 Styrene	104	9.046	9.045	0.001	92	80988	10.3	
95 Bromoform	173	9.319	9.325	-0.006	79	8777	8.11	
94 Isopropylbenzene	105	9.386	9.386	0.0	91	127196	10.7	
97 1,1,2,2-Tetrachloroethane	83	9.757	9.757	0.0	77	29550	10.2	
101 Bromobenzene	156	9.769	9.769	0.0	84	36282	10.6	
98 trans-1,4-Dichloro-2-butene	53	9.800	9.800	0.0	43	35677	48.8	
99 N-Propylbenzene	91	9.800	9.800	0.0	94	145106	10.7	
100 1,2,3-Trichloropropane	110	9.812	9.812	0.0	47	10570	10.7	
103 2-Chlorotoluene	126	9.934	9.934	0.0	96	34329	10.6	
102 1,3,5-Trimethylbenzene	105	9.964	9.964	0.0	74	106010	10.6	
105 4-Chlorotoluene	126	10.031	10.037	-0.006	91	34724	10.4	
106 tert-Butylbenzene	134	10.280	10.280	0.0	83	26554	10.7	
107 1,2,4-Trimethylbenzene	105	10.335	10.329	0.006	91	105543	10.6	
109 sec-Butylbenzene	105	10.481	10.481	0.0	86	137961	10.7	
110 4-Isopropyltoluene	119	10.603	10.603	0.0	91	123416	10.6	
111 1,3-Dichlorobenzene	146	10.646	10.645	0.001	87	69032	10.6	
113 1,4-Dichlorobenzene	146	10.725	10.725	0.001	92	70735	10.6	
115 n-Butylbenzene	91	10.974	10.974	0.0	91	96299	10.5	
116 1,2-Dichlorobenzene	146	11.065	11.065	0.0	95	64751	10.4	
117 1,2-Dibromo-3-Chloropropane	75	11.741	11.740	0.001	25	3422	9.02	
119 1,2,4-Trichlorobenzene	180	12.385	12.391	-0.006	84	38900	10.2	

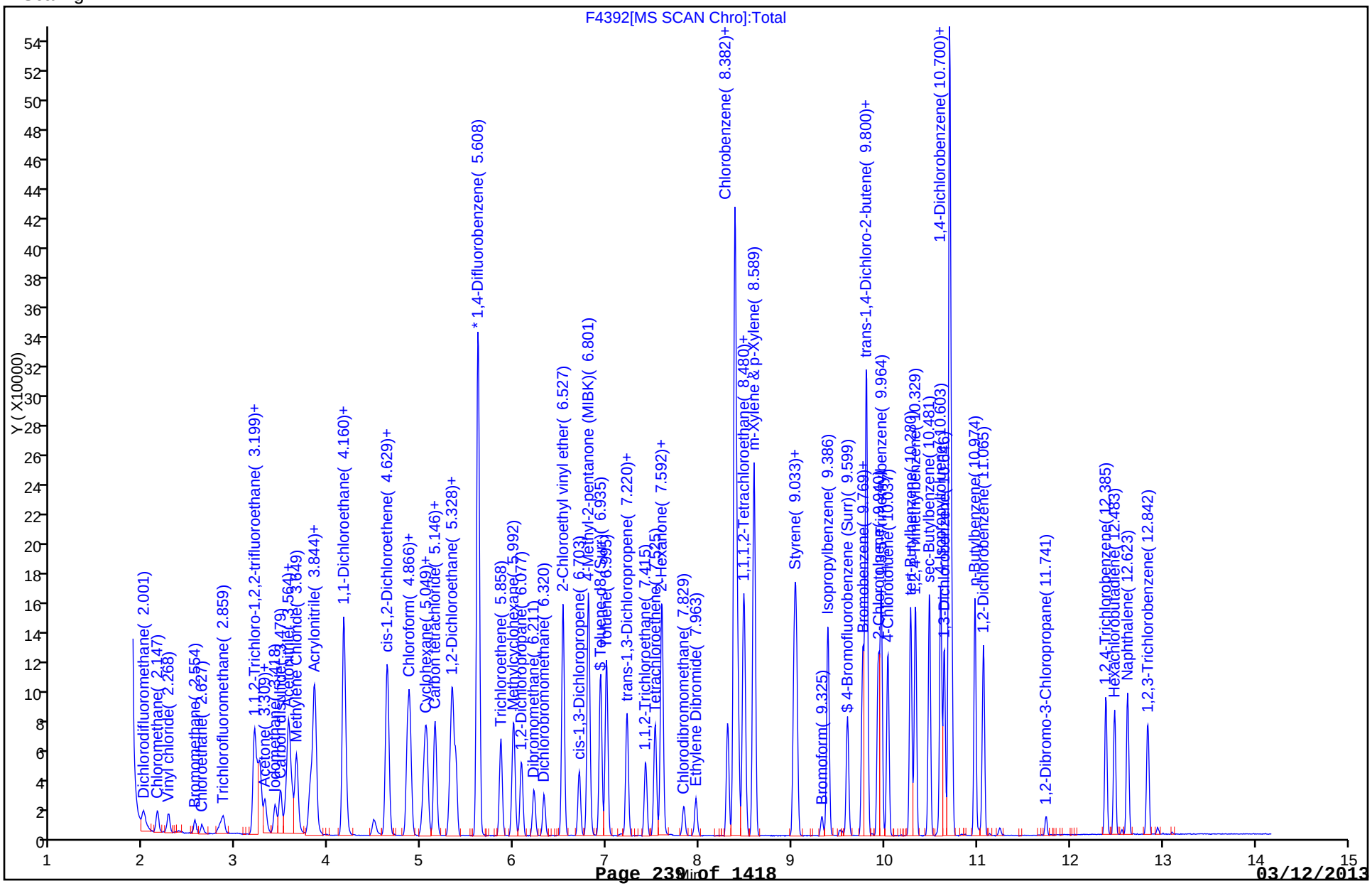
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
120 Hexachlorobutadiene	225	12.483	12.483	0.0	81	21081	10.5	
121 Naphthalene	128	12.623	12.623	0.0	90	100993	9.94	
122 1,2,3-Trichlorobenzene	180	12.842	12.842	0.0	85	34471	10.2	
S 123 Total BTEX	1				0		63.1	
S 124 Xylenes, Total	1				0		31.5	
S 125 1,2-Dichloroethene, Total	1				0		20.9	
S 126 1,3-Dichloropropene, Total	1				0		19.0	

Report Date: 26-Dec-2012 09:55:46 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F4392.D		
Injection Date:	17-Dec-2012 13:05:30	Limit Group:	MV - 8260MCP_RCP
Client ID:		Instrument ID:	HP5973F
Lims Batch ID:	96157	Lims Sample ID:	5
Operator ID:	jmb	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F4393.D		
Lims ID:	STD4	Client ID:	
Inject. Date:	17-Dec-2012 13:31:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	STD4		
Misc. Info.:	480-0017620-006 =480-0017620-006		
Operator:	jmb	Instrument ID:	HP5973F
Purge Vol:	5.000 mL	ALS Bottle#:	6
Lims Batch ID:	96157	Lims Sample ID:	6
Sublist:	chrom-F-8260 SOIL*sub1		
Detector:	MS SCAN		

Method:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F-8260 SOIL.m		
Last Update:	26-Dec-2012 09:55:45	Calib Date:	17-Dec-2012 14:47:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F4396.D		
Limit Group:	MV - 8260MCP_RCP		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK019		

First Level Reviewer: ByrnesJ Date: 17-Dec-2012 16:10:26

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.614	5.608	0.006	93	368339	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	70	154336	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	91	172607	50.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.310	5.304	0.006	94	26152	21.5	
$ 5 Toluene-d8 (Surr)	98	6.934	6.934	0.0	89	194196	21.8	
$ 6 4-Bromofluorobenzene (Surr)	174	9.599	9.599	0.0	91	67032	21.8	
10 Dichlorodifluoromethane	85	2.007	2.001	0.006	74	38802	22.6	
12 Chloromethane	50	2.153	2.153	0.0	88	40456	21.9	
13 Vinyl chloride	62	2.274	2.274	0.0	74	39754	21.7	
14 Bromomethane	94	2.560	2.554	0.006	80	14237	22.1	
15 Chloroethane	64	2.633	2.633	0.0	70	14398	22.3	
17 Trichlorofluoromethane	101	2.858	2.852	0.006	75	51469	21.7	
20 Acrolein	56	3.199	3.193	0.006	93	164807	423.5	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.229	3.230	-0.001	76	47080	22.4	
22 1,1-Dichloroethene	96	3.260	3.260	0.0	82	47253	22.7	
23 Acetone	43	3.309	3.309	0.0	96	89521	100.6	
25 Iodomethane	142	3.424	3.424	0.0	96	74227	22.1	
26 Carbon disulfide	76	3.479	3.479	0.0	98	134264	20.5	
27 Methyl acetate	43	3.534	3.528	0.006	89	61491	20.8	
29 Acetonitrile	40	3.564	3.564	0.0	99	170539	819.4	
30 Methylene Chloride	84	3.649	3.649	0.0	84	54505	21.3	
32 Methyl tert-butyl ether	73	3.807	3.807	0.0	88	136368	21.3	
34 trans-1,2-Dichloroethene	96	3.844	3.838	0.006	93	54925	22.1	
33 Acrylonitrile	53	3.856	3.856	0.0	97	115892	103.5	
37 Vinyl acetate	43	4.160	4.160	0.0	97	501123	109.6	
39 1,1-Dichloroethane	63	4.179	4.179	0.0	89	85898	21.7	
43 2-Butanone (MEK)	43	4.623	4.623	0.0	99	146560	102.1	
44 2,2-Dichloropropane	77	4.623	4.629	-0.006	53	63179	21.1	
45 cis-1,2-Dichloroethene	96	4.635	4.635	0.0	65	60049	22.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
48 Chlorobromomethane	128	4.848	4.842	0.006	86	30452	21.7	
49 Tetrahydrofuran	42	4.866	4.860	0.006	88	96480	102.2	
50 Chloroform	83	4.878	4.878	0.0	80	83311	21.7	
51 1,1,1-Trichloroethane	97	5.030	5.024	0.006	85	70232	21.0	
52 Cyclohexane	56	5.055	5.055	0.0	88	90357	21.9	
54 1,1-Dichloropropene	75	5.146	5.140	0.006	92	66329	22.1	
55 Carbon tetrachloride	117	5.158	5.152	0.006	75	53808	19.3	
57 Benzene	78	5.334	5.334	0.0	96	204904	21.8	
58 1,2-Dichloroethane	62	5.371	5.371	0.0	74	62572	21.4	
62 Trichloroethene	95	5.858	5.858	0.0	87	53864	21.8	
64 Methylcyclohexane	83	5.998	5.991	0.007	87	94927	22.0	
65 1,2-Dichloropropane	63	6.083	6.077	0.006	90	49022	21.5	
67 Dibromomethane	93	6.217	6.210	0.007	77	28421	21.3	
68 Dichlorobromomethane	83	6.326	6.320	0.006	87	50035	19.2	
69 2-Chloroethyl vinyl ether	63	6.527	6.527	0.0	91	169569	107.6	
72 cis-1,3-Dichloropropene	75	6.703	6.703	0.0	79	69010	20.0	
73 4-Methyl-2-pentanone (MIBK)	43	6.801	6.801	0.0	95	287134	106.3	
74 Toluene	92	6.995	6.995	0.0	98	137082	22.1	
75 Ethyl methacrylate	69	7.214	7.214	0.0	87	63586	21.7	
77 trans-1,3-Dichloropropene	75	7.220	7.220	0.0	93	59839	20.1	
79 1,1,2-Trichloroethane	83	7.421	7.421	0.0	82	35431	21.5	
81 Tetrachloroethene	166	7.524	7.525	-0.001	88	64246	22.0	
82 1,3-Dichloropropane	76	7.585	7.585	0.0	89	73722	21.6	
80 2-Hexanone	43	7.597	7.591	0.006	95	205089	105.9	
83 Chlorodibromomethane	129	7.835	7.829	0.006	79	37845	17.7	
84 Ethylene Dibromide	107	7.963	7.963	-0.001	83	49880	21.9	
87 Chlorobenzene	112	8.413	8.413	0.0	95	163884	21.8	
88 Ethylbenzene	91	8.480	8.474	0.006	96	251228	22.3	
89 1,1,1,2-Tetrachloroethane	131	8.492	8.492	0.0	83	46776	19.7	
90 m-Xylene & p-Xylene	106	8.589	8.589	0.0	99	212695	44.6	
91 o-Xylene	106	9.027	9.027	0.0	93	103092	22.2	
92 Styrene	104	9.045	9.045	0.0	94	169160	22.4	
95 Bromoform	173	9.325	9.325	0.0	85	21122	16.0	
94 Isopropylbenzene	105	9.386	9.386	0.0	92	263996	22.2	
97 1,1,2,2-Tetrachloroethane	83	9.757	9.757	0.0	82	60843	21.0	
101 Bromobenzene	156	9.769	9.769	0.0	84	74010	21.7	
98 trans-1,4-Dichloro-2-butene	53	9.800	9.800	0.0	52	78110	107.0	
99 N-Propylbenzene	91	9.806	9.800	0.006	95	301280	22.3	
100 1,2,3-Trichloropropane	110	9.812	9.812	0.0	54	20285	20.6	
103 2-Chlorotoluene	126	9.934	9.934	0.0	98	70030	21.7	
102 1,3,5-Trimethylbenzene	105	9.964	9.964	0.0	85	220397	22.0	
105 4-Chlorotoluene	126	10.037	10.037	0.0	95	73827	22.2	
106 tert-Butylbenzene	134	10.280	10.280	0.0	82	54860	22.0	
107 1,2,4-Trimethylbenzene	105	10.329	10.329	0.0	94	219010	22.0	
109 sec-Butylbenzene	105	10.481	10.481	0.0	91	287237	22.4	
110 4-Isopropyltoluene	119	10.603	10.603	0.0	95	261094	22.5	
111 1,3-Dichlorobenzene	146	10.645	10.645	0.0	89	141704	21.8	
113 1,4-Dichlorobenzene	146	10.724	10.725	0.0	95	142533	21.4	
115 n-Butylbenzene	91	10.974	10.974	0.0	93	205199	22.3	
116 1,2-Dichlorobenzene	146	11.065	11.065	0.0	98	132919	21.5	
117 1,2-Dibromo-3-Chloropropane	75	11.740	11.740	0.0	59	8007	17.9	
119 1,2,4-Trichlorobenzene	180	12.391	12.391	0.0	91	84732	22.2	

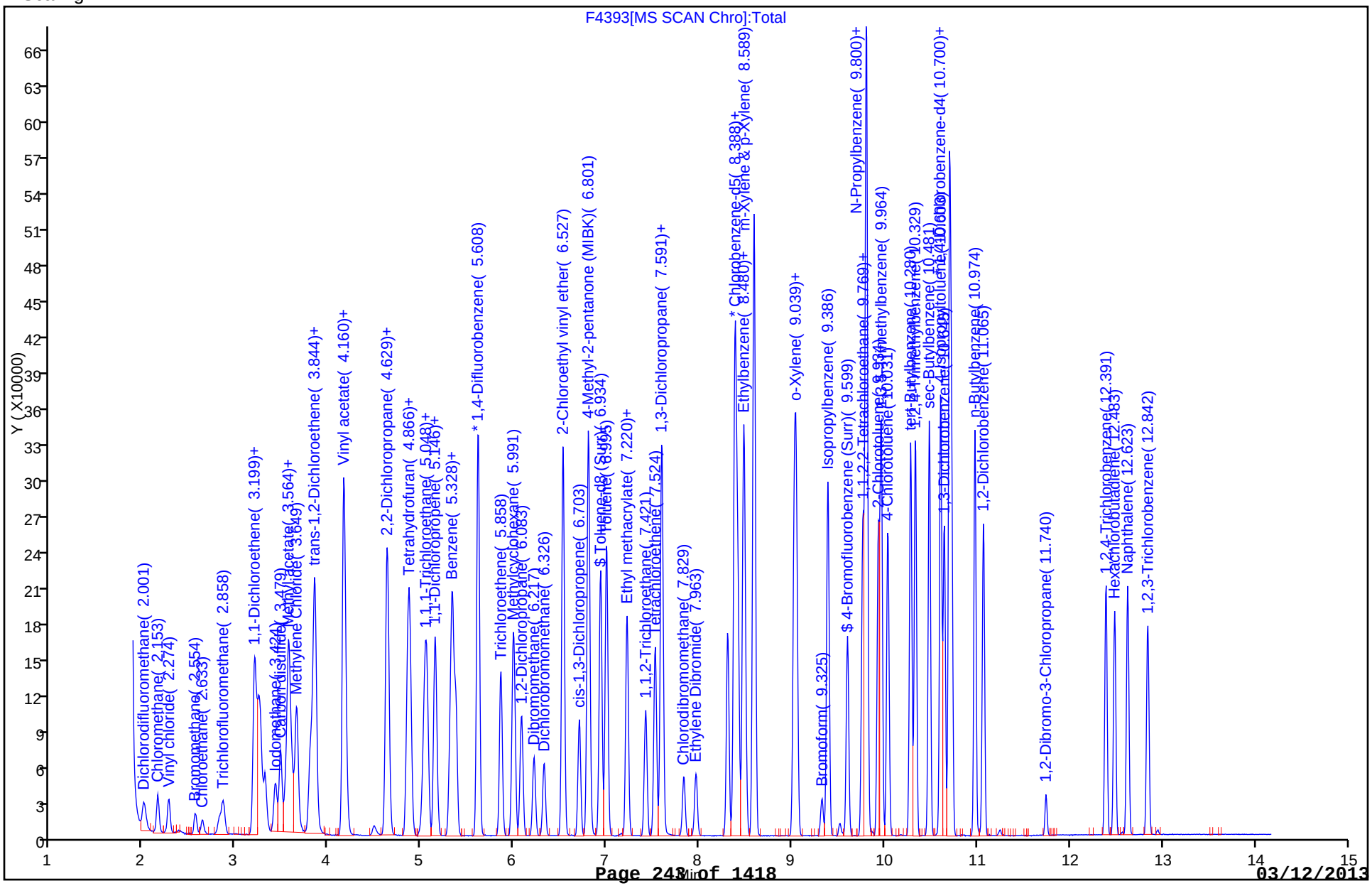
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
120 Hexachlorobutadiene	225	12.483	12.483	0.0	89	45787	22.8	
121 Naphthalene	128	12.623	12.623	0.0	95	213920	21.1	
122 1,2,3-Trichlorobenzene	180	12.842	12.842	0.0	93	75828	22.5	
S 123 Total BTEX	1				0		132.9	
S 124 Xylenes, Total	1				0		66.8	
S 125 1,2-Dichloroethene, Total	1				0		44.1	
S 126 1,3-Dichloropropene, Total	1				0		40.1	

Report Date: 26-Dec-2012 09:55:45 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F4393.D		
Injection Date:	17-Dec-2012 13:31:30	Limit Group:	MV - 8260MCP_RCP
Client ID:		Instrument ID:	HP5973F
Lims Batch ID:	96157	Lims Sample ID:	6
Operator ID:	jmb	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F4394.D		
Lims ID:	STD5	Client ID:	
Inject. Date:	17-Dec-2012 13:56:30	Dil. Factor:	1.0000
Sample Type:	ICIS	Calib Level:	5
Sample ID:	STD5		
Misc. Info.:	480-0017620-007 =480-0017620-007		
Operator:	jmb	Instrument ID:	HP5973F
Purge Vol:	5.000 mL	ALS Bottle#:	7
Lims Batch ID:	96157	Lims Sample ID:	7
Sublist:	chrom-F-8260 SOIL*sub1		
Detector:	MS SCAN		

Method:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F-8260 SOIL.m		
Last Update:	26-Dec-2012 09:55:44	Calib Date:	17-Dec-2012 14:47:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F4396.D		
Limit Group:	MV - 8260MCP_RCP		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK019		

First Level Reviewer: ByrnesJ Date: 17-Dec-2012 16:04:20

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.608	5.608	0.0	92	375611	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	73	160442	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	84	179570	50.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.304	5.304	0.0	95	58798	47.5	
$ 5 Toluene-d8 (Surr)	98	6.934	6.934	0.0	90	452163	48.7	
$ 6 4-Bromofluorobenzene (Surr)	174	9.599	9.599	0.0	92	149988	47.0	
10 Dichlorodifluoromethane	85	2.001	2.001	0.0	85	87277	48.5	
12 Chloromethane	50	2.153	2.153	0.0	89	99266	52.7	
13 Vinyl chloride	62	2.274	2.274	0.0	82	96111	50.5	
14 Bromomethane	94	2.554	2.554	0.0	86	32596	43.9	
15 Chloroethane	64	2.633	2.633	0.0	93	33597	51.1	
17 Trichlorofluoromethane	101	2.852	2.852	0.0	82	116860	47.0	
20 Acrolein	56	3.193	3.193	0.0	95	409078	1030.8	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.230	3.230	0.0	80	101280	46.1	
22 1,1-Dichloroethene	96	3.260	3.260	0.0	84	112617	53.1	
23 Acetone	43	3.309	3.309	0.0	98	233140	256.8	
25 Iodomethane	142	3.424	3.424	0.0	96	178314	52.0	
26 Carbon disulfide	76	3.479	3.479	0.0	98	333571	48.4	
27 Methyl acetate	43	3.528	3.528	0.0	91	151753	50.4	
29 Acetonitrile	40	3.564	3.564	0.0	99	433814	2044.0	
30 Methylene Chloride	84	3.649	3.649	0.0	85	131055	50.3	
32 Methyl tert-butyl ether	73	3.807	3.807	0.0	87	337049	51.6	
34 trans-1,2-Dichloroethene	96	3.838	3.838	0.0	96	133876	52.7	
33 Acrylonitrile	53	3.856	3.856	0.0	100	296321	259.4	
37 Vinyl acetate	43	4.160	4.160	0.0	97	1225317	262.9	
39 1,1-Dichloroethane	63	4.179	4.179	0.0	84	208577	51.7	
43 2-Butanone (MEK)	43	4.623	4.623	0.0	100	381605	260.6	
44 2,2-Dichloropropane	77	4.629	4.629	0.0	63	157937	50.3	
45 cis-1,2-Dichloroethene	96	4.635	4.635	0.0	68	145058	52.1	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
48 Chlorobromomethane	128	4.842	4.842	0.0	88	76320	53.3	
49 Tetrahydrofuran	42	4.860	4.860	0.0	89	251879	261.6	
50 Chloroform	83	4.878	4.878	0.0	81	204952	52.2	
51 1,1,1-Trichloroethane	97	5.024	5.024	0.0	92	173677	49.6	
52 Cyclohexane	56	5.055	5.055	0.0	88	204441	47.7	
54 1,1-Dichloropropene	75	5.140	5.140	0.0	92	161084	52.7	
55 Carbon tetrachloride	117	5.152	5.152	0.0	78	140809	46.8	
57 Benzene	78	5.334	5.334	0.0	97	495767	51.7	
58 1,2-Dichloroethane	62	5.371	5.371	0.0	77	152590	51.1	
62 Trichloroethene	95	5.858	5.858	0.0	90	133024	52.7	
64 Methylcyclohexane	83	5.991	5.991	0.0	88	210064	46.5	
65 1,2-Dichloropropane	63	6.077	6.077	0.0	94	121957	52.5	
67 Dibromomethane	93	6.210	6.210	0.0	88	72928	53.6	
68 Dichlorobromomethane	83	6.320	6.320	0.0	92	136701	48.4	
69 2-Chloroethyl vinyl ether	63	6.527	6.527	0.0	93	426856	265.7	
72 cis-1,3-Dichloropropene	75	6.703	6.703	0.0	86	179177	49.1	
73 4-Methyl-2-pentanone (MIBK)	43	6.801	6.801	0.0	95	734574	261.6	
74 Toluene	92	6.995	6.995	0.0	98	330879	51.2	
75 Ethyl methacrylate	69	7.214	7.214	0.0	90	165518	54.4	
77 trans-1,3-Dichloropropene	75	7.220	7.220	0.0	90	160022	49.8	
79 1,1,2-Trichloroethane	83	7.421	7.421	0.0	83	89843	52.5	
81 Tetrachloroethene	166	7.525	7.525	0.0	91	158669	52.2	
82 1,3-Dichloropropane	76	7.585	7.585	0.0	90	182455	51.4	
80 2-Hexanone	43	7.591	7.591	0.0	94	532588	264.4	
83 Chlorodibromomethane	129	7.829	7.829	0.0	87	110180	45.7	
84 Ethylene Dibromide	107	7.963	7.963	0.0	97	125999	53.1	
87 Chlorobenzene	112	8.413	8.413	0.0	95	399228	51.1	
88 Ethylbenzene	91	8.474	8.474	0.0	97	611561	52.2	
89 1,1,1,2-Tetrachloroethane	131	8.492	8.492	0.0	87	126642	49.2	
90 m-Xylene & p-Xylene	106	8.589	8.589	0.0	100	517496	104.3	
91 o-Xylene	106	9.027	9.027	0.0	93	251121	52.0	
92 Styrene	104	9.045	9.045	0.0	95	420599	53.5	
95 Bromoform	173	9.325	9.325	0.0	95	68628	43.8	
94 Isopropylbenzene	105	9.386	9.386	0.0	94	641525	51.9	
97 1,1,2,2-Tetrachloroethane	83	9.757	9.757	0.0	87	161801	53.7	
101 Bromobenzene	156	9.769	9.769	0.0	86	182207	51.3	
98 trans-1,4-Dichloro-2-butene	53	9.800	9.800	0.0	54	204459	269.3	
99 N-Propylbenzene	91	9.800	9.800	0.0	95	733386	52.3	
100 1,2,3-Trichloropropane	110	9.812	9.812	0.0	79	53233	51.9	
103 2-Chlorotoluene	126	9.934	9.934	0.0	98	173167	51.6	
102 1,3,5-Trimethylbenzene	105	9.964	9.964	0.0	94	541912	52.0	
105 4-Chlorotoluene	126	10.037	10.037	0.0	95	179667	52.0	
106 tert-Butylbenzene	134	10.280	10.280	0.0	88	134940	52.1	
107 1,2,4-Trimethylbenzene	105	10.329	10.329	0.0	95	537496	51.9	
109 sec-Butylbenzene	105	10.481	10.481	0.0	92	698408	52.4	
110 4-Isopropyltoluene	119	10.603	10.603	0.0	94	633782	52.4	
111 1,3-Dichlorobenzene	146	10.645	10.645	0.0	95	342595	50.7	
113 1,4-Dichlorobenzene	146	10.725	10.725	0.0	96	344052	49.7	
115 n-Butylbenzene	91	10.974	10.974	0.0	93	505507	52.9	
116 1,2-Dichlorobenzene	146	11.065	11.065	0.0	98	325565	50.6	
117 1,2-Dibromo-3-Chloropropane	75	11.740	11.740	0.0	80	24824	48.8	
119 1,2,4-Trichlorobenzene	180	12.391	12.391	0.0	94	209211	52.8	

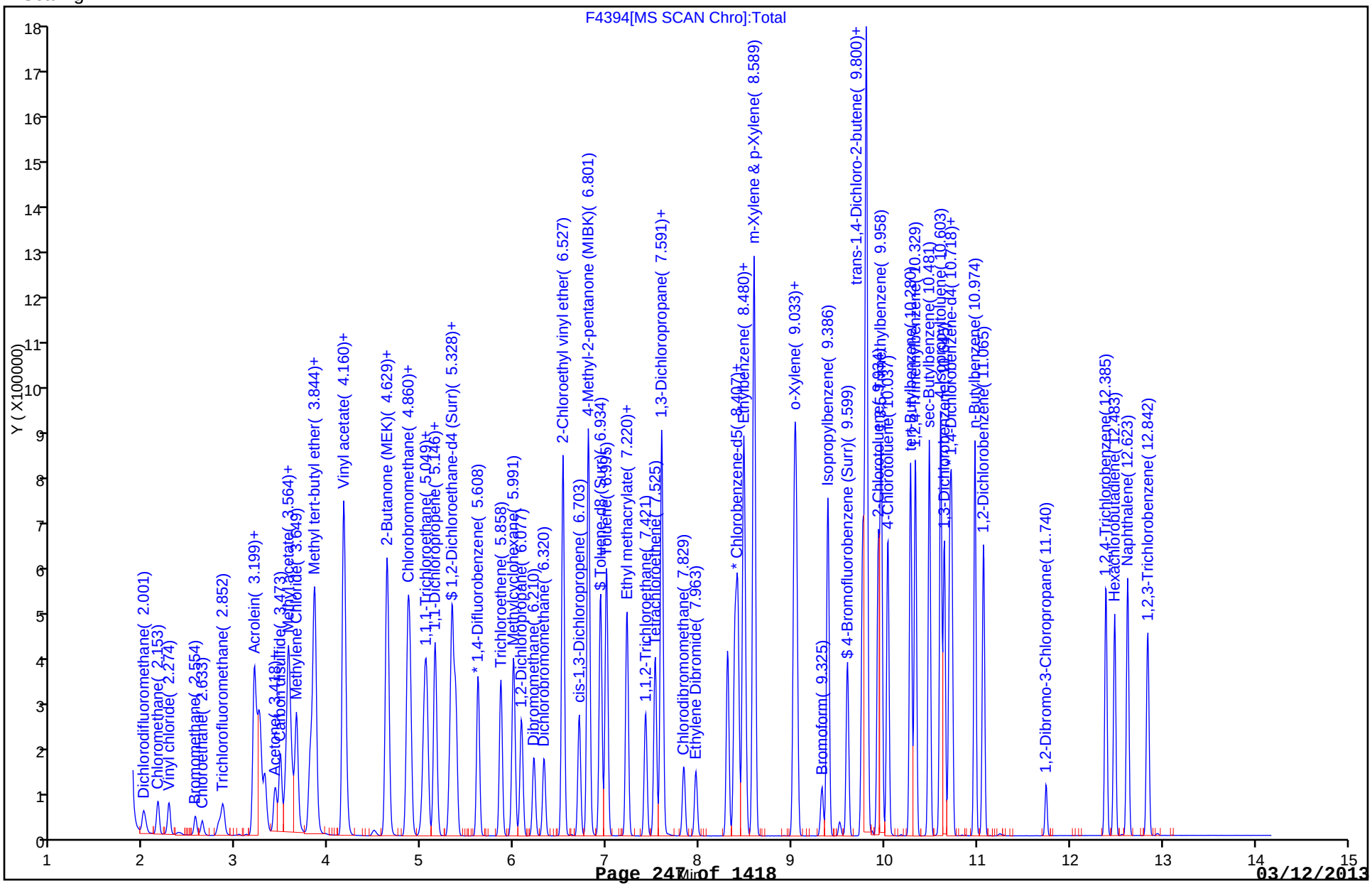
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
120 Hexachlorobutadiene	225	12.483	12.483	0.0	94	110386	52.9	
121 Naphthalene	128	12.623	12.623	0.0	96	556405	52.7	
122 1,2,3-Trichlorobenzene	180	12.842	12.842	0.0	95	190996	54.5	
S 123 Total BTEX	1				0		311.4	
S 124 Xylenes, Total	1				0		156.3	
S 125 1,2-Dichloroethene, Total	1				0		104.9	
S 126 1,3-Dichloropropene, Total	1				0		98.9	

Report Date: 26-Dec-2012 09:55:44 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F4394.D		
Injection Date:	17-Dec-2012 13:56:30	Limit Group:	MV - 8260MCP_RCP
Client ID:		Instrument ID:	HP5973F
Lims Batch ID:	96157	Lims Sample ID:	7
Operator ID:	jmb	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F4395.D		
Lims ID:	STD6	Client ID:	
Inject. Date:	17-Dec-2012 14:22:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	STD6		
Misc. Info.:	480-0017620-008 =480-0017620-008		
Operator:	jmb	Instrument ID:	HP5973F
Purge Vol:	5.000 mL	ALS Bottle#:	8
Lims Batch ID:	96157	Lims Sample ID:	8
Sublist:	chrom-F-8260 SOIL*sub1		
Detector:	MS SCAN		

Method:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F-8260 SOIL.m		
Last Update:	26-Dec-2012 09:57:02	Calib Date:	17-Dec-2012 14:47:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F4396.D		
Limit Group:	MV - 8260MCP_RCP		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK019		

First Level Reviewer: ByrnesJ Date: 17-Dec-2012 16:04:27

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.614	5.608	0.006	93	386270	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	70	166078	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	66	185074	50.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.304	5.304	0.0	96	127278	99.9	
$ 5 Toluene-d8 (Surr)	98	6.934	6.934	0.0	91	926359	96.4	
$ 6 4-Bromofluorobenzene (Surr)	174	9.599	9.599	0.0	94	317175	95.9	
10 Dichlorodifluoromethane	85	2.001	2.001	0.0	87	193635	103.5	
12 Chloromethane	50	2.159	2.153	0.006	89	199464	103.0	
13 Vinyl chloride	62	2.280	2.274	0.006	84	199360	101.1	
14 Bromomethane	94	2.560	2.554	0.006	89	70649	87.4	
15 Chloroethane	64	2.633	2.633	0.0	93	71435	105.7	
17 Trichlorofluoromethane	101	2.858	2.852	0.006	85	256081	98.8	
20 Acrolein	56	3.193	3.193	0.0	98	874364	2142.4	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.229	3.230	-0.001	82	235191	102.6	
22 1,1-Dichloroethene	96	3.260	3.260	0.0	83	235237	107.8	
23 Acetone	43	3.309	3.309	0.0	98	497431	532.8	
25 Iodomethane	142	3.424	3.424	0.0	97	373073	105.7	
26 Carbon disulfide	76	3.479	3.479	0.0	99	727106	101.3	
27 Methyl acetate	43	3.534	3.528	0.006	90	334078	107.8	
29 Acetonitrile	40	3.564	3.564	0.0	99	926969	4247.1	
30 Methylene Chloride	84	3.649	3.649	0.0	85	265068	98.8	
32 Methyl tert-butyl ether	73	3.807	3.807	0.0	90	716823	106.8	
34 trans-1,2-Dichloroethene	96	3.838	3.838	0.0	96	272139	104.2	
33 Acrylonitrile	53	3.856	3.856	0.0	99	643738	548.0	
37 Vinyl acetate	43	4.160	4.160	0.0	97	2511929	524.1	
39 1,1-Dichloroethane	63	4.178	4.179	-0.001	84	418599	101.0	
43 2-Butanone (MEK)	43	4.623	4.623	0.0	100	831150	551.9	
44 2,2-Dichloropropane	77	4.629	4.629	0.0	74	327318	100.5	
45 cis-1,2-Dichloroethene	96	4.635	4.635	0.0	69	293929	102.7	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
48 Chlorobromomethane	128	4.848	4.842	0.006	89	155117	105.3	
49 Tetrahydrofuran	42	4.860	4.860	0.0	88	548073	553.5	
50 Chloroform	83	4.878	4.878	0.0	80	415748	103.1	
51 1,1,1-Trichloroethane	97	5.024	5.024	0.0	92	364932	100.3	
52 Cyclohexane	56	5.055	5.055	0.0	89	457508	102.9	
54 1,1-Dichloropropene	75	5.146	5.140	0.006	94	336371	107.0	
55 Carbon tetrachloride	117	5.158	5.152	0.006	79	313317	99.2	
57 Benzene	78	5.334	5.334	0.0	97	1000297	101.4	
58 1,2-Dichloroethane	62	5.371	5.371	0.0	77	313411	102.1	
62 Trichloroethene	95	5.858	5.858	0.0	90	275340	106.0	
64 Methylcyclohexane	83	5.991	5.991	0.0	88	485303	103.2	
65 1,2-Dichloropropane	63	6.077	6.077	0.0	95	251818	105.5	
67 Dibromomethane	93	6.216	6.210	0.006	86	153845	110.0	
68 Dichlorobromomethane	83	6.326	6.320	0.006	94	298355	100.7	
69 2-Chloroethyl vinyl ether	63	6.527	6.527	0.0	92	906150	548.4	
72 cis-1,3-Dichloropropene	75	6.703	6.703	0.0	91	386716	101.8	
73 4-Methyl-2-pentanone (MIBK)	43	6.801	6.801	-0.001	95	1569801	540.1	
74 Toluene	92	6.995	6.995	0.0	93	673678	100.7	
75 Ethyl methacrylate	69	7.214	7.214	0.0	89	363157	115.2	
77 trans-1,3-Dichloropropene	75	7.220	7.220	0.0	91	340873	101.2	
79 1,1,2-Trichloroethane	83	7.421	7.421	0.0	84	189759	107.2	
81 Tetrachloroethene	166	7.524	7.525	-0.001	91	325304	103.3	
82 1,3-Dichloropropane	76	7.585	7.585	0.0	89	374366	101.8	
80 2-Hexanone	43	7.597	7.591	0.006	94	1162768	557.8	
83 Chlorodibromomethane	129	7.829	7.829	0.0	87	257382	100.5	
84 Ethylene Dibromide	107	7.962	7.963	-0.001	98	267534	109.0	
87 Chlorobenzene	112	8.413	8.413	0.0	95	809750	100.2	
88 Ethylbenzene	91	8.480	8.474	0.006	97	1234419	101.9	
89 1,1,1,2-Tetrachloroethane	131	8.492	8.492	0.0	88	272605	100.9	
90 m-Xylene & p-Xylene	106	8.589	8.589	0.0	99	1037308	202.0	
91 o-Xylene	106	9.027	9.027	0.0	93	509459	101.9	
92 Styrene	104	9.045	9.045	0.0	95	859276	105.5	
95 Bromoform	173	9.325	9.325	0.0	98	171804	101.9	
94 Isopropylbenzene	105	9.386	9.386	0.0	94	1300991	102.2	
97 1,1,2,2-Tetrachloroethane	83	9.757	9.757	0.0	87	340931	109.7	
101 Bromobenzene	156	9.769	9.769	0.0	86	369915	101.1	
98 trans-1,4-Dichloro-2-butene	53	9.800	9.800	0.0	58	445099	568.9	
99 N-Propylbenzene	91	9.800	9.800	0.0	94	1469919	101.6	
100 1,2,3-Trichloropropane	110	9.812	9.812	0.0	58	110911	104.9	
103 2-Chlorotoluene	126	9.934	9.934	0.0	98	354127	102.4	
102 1,3,5-Trimethylbenzene	105	9.964	9.964	0.0	86	1099167	102.3	
105 4-Chlorotoluene	126	10.037	10.037	0.0	95	361363	101.4	
106 tert-Butylbenzene	134	10.280	10.280	0.0	88	277076	103.9	
107 1,2,4-Trimethylbenzene	105	10.335	10.329	0.006	95	1091313	102.3	
109 sec-Butylbenzene	105	10.481	10.481	0.0	93	1418344	103.2	
110 4-Isopropyltoluene	119	10.603	10.603	0.0	96	1297486	104.1	
111 1,3-Dichlorobenzene	146	10.645	10.645	0.0	95	695739	99.9	
113 1,4-Dichlorobenzene	146	10.724	10.725	0.0	96	707446	99.2	
115 n-Butylbenzene	91	10.974	10.974	0.0	93	1031559	104.7	
116 1,2-Dichlorobenzene	146	11.065	11.065	0.0	98	667261	100.5	
117 1,2-Dibromo-3-Chloropropane	75	11.740	11.740	0.0	86	60147	111.5	
119 1,2,4-Trichlorobenzene	180	12.391	12.391	0.0	93	444246	108.7	

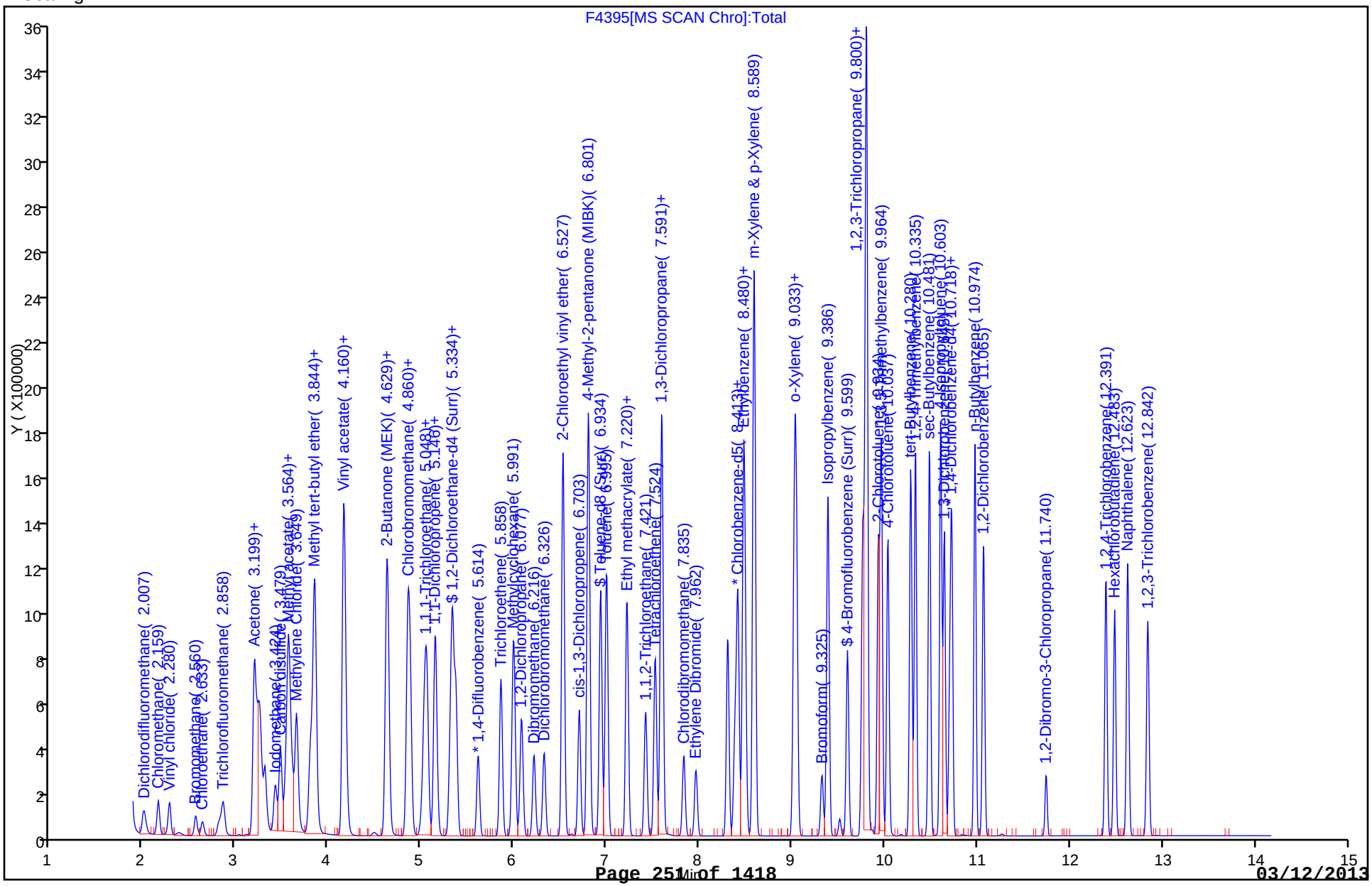
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
120 Hexachlorobutadiene	225	12.483	12.483	0.0	95	230319	107.1	
121 Naphthalene	128	12.623	12.623	-0.001	96	1204755	110.8	
122 1,2,3-Trichlorobenzene	180	12.842	12.842	0.0	94	398722	110.5	
S 123 Total BTEX	1				0		607.9	
S 124 Xylenes, Total	1				0		303.9	
S 125 1,2-Dichloroethene, Total	1				0		206.9	
S 126 1,3-Dichloropropene, Total	1				0		203.0	

Report Date: 26-Dec-2012 09:57:02 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F4395.D		
Injection Date:	17-Dec-2012 14:22:30	Limit Group:	MV - 8260MCP_RCP
Client ID:		Instrument ID:	HP5973F
Lims Batch ID:	96157	Lims Sample ID:	8
Operator ID:	jmb	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F4396.D		
Lims ID:	STD7	Client ID:	
Inject. Date:	17-Dec-2012 14:47:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	7
Sample ID:	FIBLK		
Misc. Info.:	480-0017620-009 =480-0017620-009		
Operator:	jmb	Instrument ID:	HP5973F
Purge Vol:	5.000 mL	ALS Bottle#:	9
Lims Batch ID:	96157	Lims Sample ID:	12
Sublist:	chrom-F-8260 SOIL*sub1		
Detector:	MS SCAN		

Method:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F-8260 SOIL.m		
Last Update:	26-Dec-2012 09:55:42	Calib Date:	17-Dec-2012 14:47:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F4396.D		
Limit Group:	MV - 8260MCP_RCP		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK019		

First Level Reviewer: ByrnesJ Date: 17-Dec-2012 16:04:34

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.614	5.608	0.006	92	397630	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	68	167284	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	91	175273	50.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.310	5.304	0.006	95	247165	188.5	
$ 5 Toluene-d8 (Surr)	98	6.935	6.934	0.001	82	1831091	189.3	
$ 6 4-Bromofluorobenzene (Surr)	174	9.599	9.599	0.0	94	612918	184.0	
10 Dichlorodifluoromethane	85	2.001	2.001	0.0	87	379204	195.9	
12 Chloromethane	50	2.165	2.153	0.012	89	405438	203.5	
13 Vinyl chloride	62	2.287	2.274	0.013	84	401931	197.3	
14 Bromomethane	94	2.573	2.554	0.019	89	178164	207.4	
15 Chloroethane	64	2.640	2.633	0.007	95	173972	250.1	
17 Trichlorofluoromethane	101	2.859	2.852	0.007	86	544413	202.9	
20 Acrolein	56	3.193	3.193	0.0	96	1545677	3679.0	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.230	3.230	0.0	82	472983	199.5	
22 1,1-Dichloroethene	96	3.260	3.260	0.0	84	475213	211.6	
23 Acetone	43	3.309	3.309	0.0	98	844684	879.0	
25 Iodomethane	142	3.424	3.424	0.0	97	743356	204.6	
26 Carbon disulfide	76	3.479	3.479	0.0	99	1487822	200.4	
27 Methyl acetate	43	3.534	3.528	0.006	91	576783	180.9	
29 Acetonitrile	40	3.564	3.564	0.0	100	1593774	7093.6	
30 Methylene Chloride	84	3.656	3.649	0.007	84	527420	191.0	
32 Methyl tert-butyl ether	73	3.808	3.807	0.001	90	1355505	196.2	
34 trans-1,2-Dichloroethene	96	3.838	3.838	0.0	95	543627	202.2	
33 Acrylonitrile	53	3.856	3.856	0.0	99	1109642	917.7	
37 Vinyl acetate	43	4.160	4.160	0.0	97	4402572	892.3	
39 1,1-Dichloroethane	63	4.179	4.179	0.0	84	834313	195.5	
43 2-Butanone (MEK)	43	4.623	4.623	0.0	100	1367365	882.1	
44 2,2-Dichloropropane	77	4.629	4.629	0.0	84	668038	198.4	
45 cis-1,2-Dichloroethene	96	4.641	4.635	0.006	69	581388	197.4	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
48 Chlorobromomethane	128	4.848	4.842	0.006	88	306814	202.2	
49 Tetrahydrofuran	42	4.860	4.860	0.0	88	903463	886.3	
50 Chloroform	83	4.878	4.878	0.0	81	833761	200.8	
51 1,1,1-Trichloroethane	97	5.030	5.024	0.006	92	751313	199.6	
52 Cyclohexane	56	5.055	5.055	0.0	89	909302	197.9	
54 1,1-Dichloropropene	75	5.146	5.140	0.006	94	672803	207.9	
55 Carbon tetrachloride	117	5.158	5.152	0.006	81	674052	205.3	
57 Benzene	78	5.335	5.334	0.001	97	1971663	194.1	
58 1,2-Dichloroethane	62	5.371	5.371	0.0	77	610683	193.2	
62 Trichloroethene	95	5.858	5.858	0.0	91	555684	207.9	
64 Methylcyclohexane	83	5.998	5.991	0.007	88	966725	198.9	
65 1,2-Dichloropropane	63	6.083	6.077	0.006	95	503548	204.9	
67 Dibromomethane	93	6.217	6.210	0.007	84	302232	209.9	
68 Dichlorobromomethane	83	6.326	6.320	0.006	94	621618	202.0	
69 2-Chloroethyl vinyl ether	63	6.527	6.527	0.0	92	1616133	950.2	
72 cis-1,3-Dichloropropene	75	6.703	6.703	0.0	91	785045	199.6	
73 4-Methyl-2-pentanone (MIBK)	43	6.801	6.801	0.0	94	2588706	884.3	
74 Toluene	92	7.001	6.995	0.006	99	1332776	197.9	
75 Ethyl methacrylate	69	7.214	7.214	0.0	89	661246	208.3	
77 trans-1,3-Dichloropropene	75	7.220	7.220	0.0	91	680801	199.5	
79 1,1,2-Trichloroethane	83	7.421	7.421	0.0	84	368083	206.4	
81 Tetrachloroethene	166	7.525	7.525	0.0	90	647042	204.1	
82 1,3-Dichloropropane	76	7.586	7.585	0.001	91	710242	191.8	
80 2-Hexanone	43	7.598	7.591	0.007	93	1860572	886.0	
83 Chlorodibromomethane	129	7.829	7.829	0.0	87	538930	206.7	
84 Ethylene Dibromide	107	7.963	7.963	0.0	97	517479	209.2	
87 Chlorobenzene	112	8.413	8.413	0.0	96	1580446	194.1	
88 Ethylbenzene	91	8.474	8.474	0.0	97	2383094	195.3	
89 1,1,1,2-Tetrachloroethane	131	8.492	8.492	0.0	88	550016	200.9	
90 m-Xylene & p-Xylene	106	8.589	8.589	0.0	99	1985508	383.8	
91 o-Xylene	106	9.027	9.027	0.0	93	978880	194.4	
92 Styrene	104	9.046	9.045	0.001	94	1641262	200.2	
95 Bromoform	173	9.325	9.325	0.0	99	360680	209.2	
94 Isopropylbenzene	105	9.386	9.386	0.0	94	2497297	207.1	
97 1,1,2,2-Tetrachloroethane	83	9.757	9.757	0.0	86	621032	211.0	
101 Bromobenzene	156	9.770	9.769	0.001	86	701921	202.6	
98 trans-1,4-Dichloro-2-butene	53	9.800	9.800	0.0	58	746235	1007.1	
99 N-Propylbenzene	91	9.800	9.800	0.0	94	2659519	194.2	
100 1,2,3-Trichloropropane	110	9.812	9.812	0.0	73	190539	190.3	
103 2-Chlorotoluene	126	9.934	9.934	0.0	98	673120	205.5	
102 1,3,5-Trimethylbenzene	105	9.964	9.964	0.0	95	2050901	201.5	
105 4-Chlorotoluene	126	10.037	10.037	0.0	95	689352	204.2	
106 tert-Butylbenzene	134	10.281	10.280	0.001	88	525089	207.8	
107 1,2,4-Trimethylbenzene	105	10.335	10.329	0.006	95	2016416	199.6	
109 sec-Butylbenzene	105	10.481	10.481	0.0	93	2602892	200.0	
110 4-Isopropyltoluene	119	10.603	10.603	0.0	94	2370820	200.8	
111 1,3-Dichlorobenzene	146	10.646	10.645	0.001	95	1288731	195.4	
113 1,4-Dichlorobenzene	146	10.725	10.725	0.001	96	1288166	190.6	
115 n-Butylbenzene	91	10.974	10.974	0.0	93	1860176	199.3	
116 1,2-Dichlorobenzene	146	11.065	11.065	0.0	98	1209906	192.5	
117 1,2-Dibromo-3-Chloropropane	75	11.741	11.740	0.001	91	99512	193.0	
119 1,2,4-Trichlorobenzene	180	12.392	12.391	0.001	93	704988	182.2	

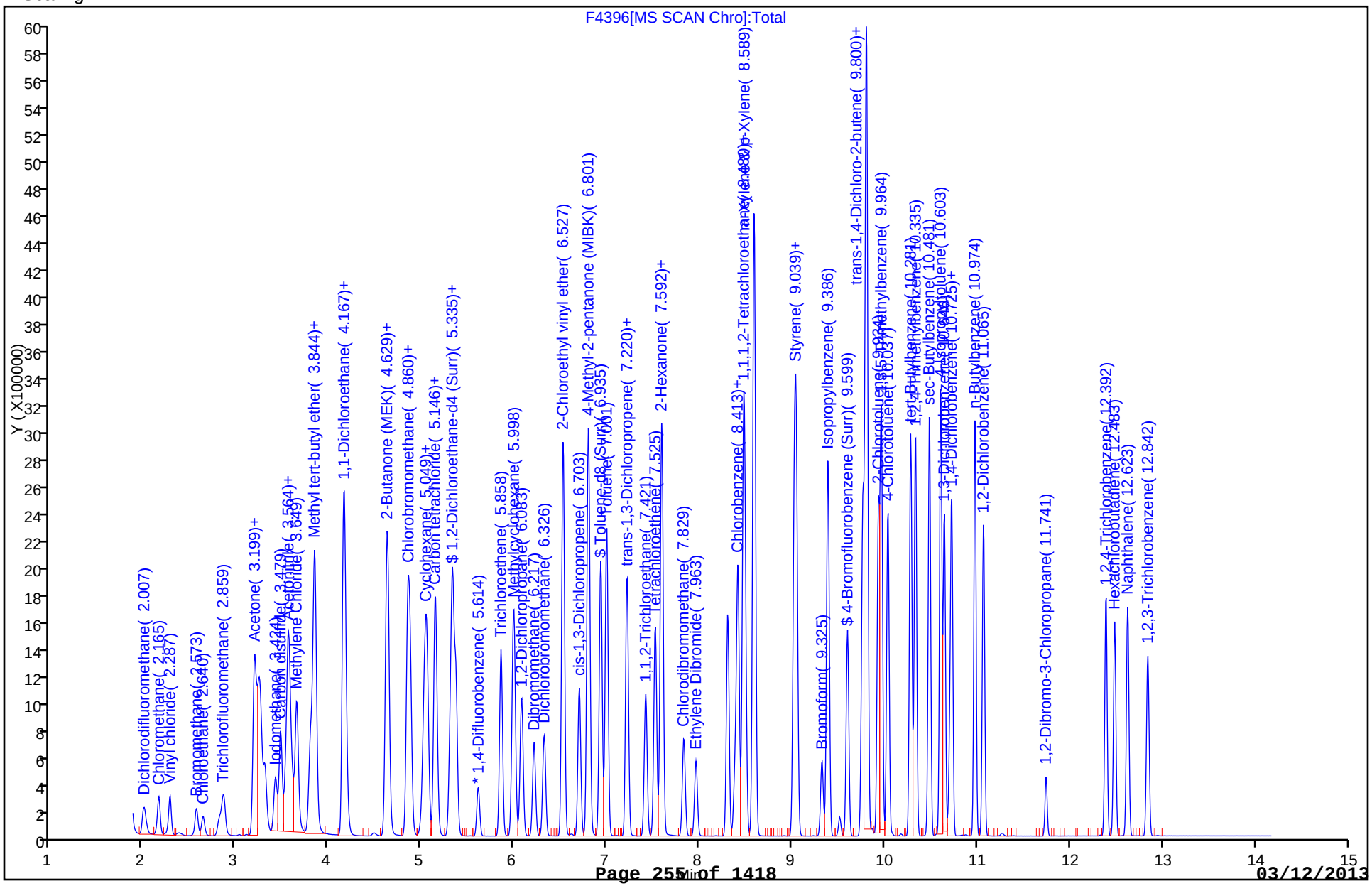
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
120 Hexachlorobutadiene	225	12.483	12.483	0.0	95	379329	186.2	
121 Naphthalene	128	12.623	12.623	0.0	96	1758675	170.8	
122 1,2,3-Trichlorobenzene	180	12.842	12.842	0.0	95	579860	169.6	
S 123 Total BTEX	1				0		1165.4	
S 124 Xylenes, Total	1				0		578.2	
S 125 1,2-Dichloroethene, Total	1				0		399.6	
S 126 1,3-Dichloropropene, Total	1				0		399.2	

Report Date: 26-Dec-2012 09:55:42 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F4396.D		
Injection Date:	17-Dec-2012 14:47:30	Limit Group:	MV - 8260MCP_RCP
Client ID:		Instrument ID:	HP5973F
Lims Batch ID:	96157	Lims Sample ID:	12
Operator ID:	jmb	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Lab Sample ID: CCVIS 480-96559/3 Calibration Date: 12/19/2012 11:53

Instrument ID: HP5973F Calib Start Date: 12/17/2012 13:05

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 12/17/2012 14:47

Lab File ID: F4453.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.2170	0.1000	45.4	50.0	-9.2	20.0
Chloromethane	Ave	0.2506	0.2274	0.0500	45.4	50.0	-9.2	20.0
Vinyl chloride	Lin1		0.2415	0.1000	47.7	50.0	-4.7	20.0
Bromomethane	Lin		0.0899	0.0500	45.3	50.0	-9.4	20.0
Chloroethane	Ave	0.0875	0.0908*	0.1000	51.9	50.0	3.8	20.0
Trichlorofluoromethane	Lin1		0.3178	0.1000	48.0	50.0	-4.1	20.0
Acrolein	Ave	0.0528	0.0491		929	1000	-7.1	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin1		0.2713	0.1000	46.3	50.0	-7.3	20.0
1,1-Dichloroethene	Ave	0.2824	0.2822	0.1000	50.0	50.0	-0.0	20.0
Acetone	Ave	0.1208	0.1031	0.0500	213	250	-14.7	20.0
Iodomethane	Ave	0.4569	0.4325		47.3	50.0	-5.3	20.0
Carbon disulfide	Lin1		0.8604	0.1000	46.9	50.0	-6.2	20.0
Methyl acetate	Ave	0.4010	0.3571	0.1000	44.5	50.0	-10.9	20.0
Acetonitrile	Ave	0.0283	0.0244		1730	2000	-13.5	20.0
Methylene Chloride	Ave	0.3471	0.3224	0.1000	46.4	50.0	-7.1	20.0
Methyl tert-butyl ether	Ave	0.8688	0.8692	0.1000	50.0	50.0	0.0	20.0
trans-1,2-Dichloroethene	Ave	0.3380	0.3309	0.1000	49.0	50.0	-2.1	20.0
Acrylonitrile	Ave	0.1521	0.1396		230	250	-8.2	20.0
Vinyl acetate	Ave	0.6204	0.5984		241	250	-3.6	20.0
1,1-Dichloroethane	Ave	0.5367	0.5176	0.2000	48.2	50.0	-3.6	20.0
2-Butanone (MEK)	Ave	0.1949	0.1733	0.0500	222	250	-11.1	20.0
2,2-Dichloropropane	Lin1		0.4280		51.2	50.0	2.4	20.0
cis-1,2-Dichloroethene	Ave	0.3704	0.3582	0.1000	48.4	50.0	-3.3	20.0
Chlorobromomethane	Ave	0.1908	0.1813		47.5	50.0	-5.0	20.0
Tetrahydrofuran	Ave	0.1282	0.1167		228	250	-9.0	20.0
Chloroform	Ave	0.5222	0.5026	0.2000	48.1	50.0	-3.8	20.0
1,1,1-Trichloroethane	Lin1		0.4555	0.1000	48.9	50.0	-2.2	20.0
Cyclohexane	Lin1		0.5324	0.1000	46.7	50.0	-6.6	20.0
1,1-Dichloropropene	Ave	0.4070	0.4122		50.6	50.0	1.3	20.0
Carbon tetrachloride	Lin1		0.4021	0.1000	50.1	50.0	0.1	20.0
Benzene	Ave	1.277	1.221	0.5000	47.8	50.0	-4.4	20.0
1,2-Dichloroethane	Ave	0.3974	0.3677	0.1000	46.3	50.0	-7.5	20.0
Trichloroethene	Ave	0.3361	0.3313	0.2000	49.3	50.0	-1.4	20.0
Methylcyclohexane	Lin1		0.5696	0.1000	47.3	50.0	-5.3	20.0
1,2-Dichloropropane	Ave	0.3090	0.2975	0.1000	48.2	50.0	-3.7	20.0
Dibromomethane	Ave	0.1811	0.1776		49.0	50.0	-1.9	20.0
Dichlorobromomethane	Lin1		0.3590	0.1000	47.8	50.0	-4.4	20.0
2-Chloroethyl vinyl ether	Ave	0.2139	0.2129		249	250	-0.5	20.0
cis-1,3-Dichloropropene	Lin1		0.4806	0.2000	49.5	50.0	-1.1	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.8750	0.7905	0.0500	226	250	-9.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Lab Sample ID: CCVIS 480-96559/3 Calibration Date: 12/19/2012 11:53

Instrument ID: HP5973F Calib Start Date: 12/17/2012 13:05

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 12/17/2012 14:47

Lab File ID: F4453.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toluene	Ave	2.013	1.921	0.4000	47.7	50.0	-4.6	20.0
Ethyl methacrylate	Ave	0.9489	0.9788		51.6	50.0	3.2	20.0
trans-1,3-Dichloropropene	Lin1		0.9882	0.1000	49.3	50.0	-1.3	20.0
1,1,2-Trichloroethane	Ave	0.5330	0.5170	0.1000	48.5	50.0	-3.0	20.0
Tetrachloroethene	Ave	0.9476	0.8902	0.1000	47.0	50.0	-6.1	20.0
1,3-Dichloropropane	Ave	1.107	1.036		46.8	50.0	-6.4	20.0
2-Hexanone	Ave	0.6276	0.5815	0.0500	232	250	-7.4	20.0
Chlorodibromomethane	Lin1		0.7043	0.1000	46.8	50.0	-6.4	20.0
Ethylene Dibromide	Ave	0.7393	0.7162	0.1000	48.4	50.0	-3.1	20.0
Chlorobenzene	Ave	2.434	2.282	0.5000	46.9	50.0	-6.3	20.0
Ethylbenzene	Ave	3.648	3.596	0.1000	49.3	50.0	-1.4	20.0
1,1,1,2-Tetrachloroethane	Lin1		0.7758		48.4	50.0	-3.3	20.0
m-Xylene & p-Xylene	Ave	1.546	1.525	0.1000	98.6	100	-1.4	20.0
o-Xylene	Ave	1.505	1.472	0.3000	48.9	50.0	-2.2	20.0
Styrene	Ave	2.451	2.455	0.3000	50.1	50.0	0.2	20.0
Bromoform	Lin1		0.4618	0.1000	47.1	50.0	-5.9	20.0
Isopropylbenzene	Ave	3.440	3.477	0.1000	50.5	50.0	1.1	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8396	0.8394	0.3000	50.0	50.0	-0.0	20.0
Bromobenzene	Ave	0.9885	0.9406		47.6	50.0	-4.8	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2114	0.2238		265	250	5.9	20.0
1,2,3-Trichloropropane	Ave	0.2856	0.2655		46.5	50.0	-7.0	20.0
2-Chlorotoluene	Ave	0.9345	0.9229		49.4	50.0	-1.2	20.0
1,3,5-Trimethylbenzene	Ave	2.904	2.948		50.8	50.0	1.5	20.0
4-Chlorotoluene	Ave	0.9630	0.9393		48.8	50.0	-2.5	20.0
N-Propylbenzene	Ave	3.907	2.399		49.7	50.0	-0.6	20.0
tert-Butylbenzene	Ave	0.7207	0.7110		49.3	50.0	-1.3	20.0
1,2,4-Trimethylbenzene	Ave	2.882	2.982		51.7	50.0	3.5	20.0
sec-Butylbenzene	Ave	3.712	3.840		51.7	50.0	3.5	20.0
4-Isopropyltoluene	Ave	3.368	3.529		52.4	50.0	4.8	20.0
1,3-Dichlorobenzene	Ave	1.882	1.821	0.6000	48.4	50.0	-3.2	20.0
1,4-Dichlorobenzene	Ave	1.928	1.845	0.5000	47.9	50.0	-4.3	20.0
n-Butylbenzene	Ave	2.662	2.833		53.2	50.0	6.4	20.0
1,2-Dichlorobenzene	Ave	1.793	1.723	0.4000	48.0	50.0	-3.9	20.0
1,2-Dibromo-3-Chloropropane	Lin1		0.1454	0.0500	51.2	50.0	2.4	20.0
1,2,4-Trichlorobenzene	Ave	1.104	1.173	0.2000	53.1	50.0	6.3	20.0
Hexachlorobutadiene	Ave	0.5813	0.6360		54.7	50.0	9.4	20.0
Naphthalene	Ave	2.937	3.169		53.9	50.0	7.9	20.0
1,2,3-Trichlorobenzene	Ave	0.9751	1.056		54.1	50.0	8.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1649	0.1372		41.6	50.0	-16.8	20.0
Toluene-d8 (Surr)	Ave	2.892	2.533		43.8	50.0	-12.4	20.0
4-Bromofluorobenzene (Surr)	Ave	0.995	0.8430		42.3	50.0	-15.3	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4453.D		
Lims ID:	CCVIS	Client ID:	
Inject. Date:	19-Dec-2012 11:53:30	Dil. Factor:	1.0000
Sample Type:	CCVIS		
Sample ID:	CCVIS		
Misc. Info.:	480-0017691-003 =480-0017691-003		
Operator:	JMB	Instrument ID:	HP5973F
Purge Vol:	5.000 mL	ALS Bottle#:	3
Lims Batch ID:	96559	Lims Sample ID:	3
Sublist:	chrom-F-8260 SOIL*sub1		
Detector:	MS SCAN		

Method:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F-8260 SOIL.m		
Last Update:	19-Dec-2012 12:14:21	Calib Date:	17-Dec-2012 14:47:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F4396.D		
Limit Group:	MV - 8260MCP_RCP		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK020		

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.608	5.608	0.0	92	280215	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	72	121672	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	74	132638	50.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.304	5.304	0.0	95	38436	41.6	
$ 5 Toluene-d8 (Surr)	98	6.934	6.934	0.0	91	308220	43.8	
$ 6 4-Bromofluorobenzene (Surr)	174	9.599	9.599	0.0	90	102574	42.3	
10 Dichlorodifluoromethane	85	2.001	2.001	0.0	78	60796	45.4	
12 Chloromethane	50	2.159	2.159	0.0	89	63728	45.4	
13 Vinyl chloride	62	2.274	2.274	0.0	81	67673	47.7	
14 Bromomethane	94	2.560	2.560	0.0	78	25181	45.3	
15 Chloroethane	64	2.633	2.633	0.0	87	25439	51.9	
17 Trichlorofluoromethane	101	2.858	2.858	0.0	82	89051	48.0	
20 Acrolein	56	3.193	3.193	0.0	91	275002	928.8	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.230	3.230	0.0	79	76029	46.3	
22 1,1-Dichloroethene	96	3.260	3.260	0.0	84	79066	50.0	
23 Acetone	43	3.309	3.309	0.0	97	144392	213.2	
25 Iodomethane	142	3.424	3.424	0.0	96	121193	47.3	
26 Carbon disulfide	76	3.473	3.473	0.0	98	241093	46.9	
27 Methyl acetate	43	3.528	3.528	0.0	90	100074	44.5	
29 Acetonitrile	40	3.564	3.564	0.0	100	273778	1729.1	
30 Methylene Chloride	84	3.649	3.649	0.0	83	90329	46.4	
32 Methyl tert-butyl ether	73	3.801	3.801	0.0	88	243562	50.0	
34 trans-1,2-Dichloroethene	96	3.838	3.838	0.0	95	92732	49.0	
33 Acrylonitrile	53	3.856	3.856	0.0	100	195586	229.5	
37 Vinyl acetate	43	4.160	4.160	0.0	97	838401	241.1	
39 1,1-Dichloroethane	63	4.179	4.179	0.0	81	145039	48.2	
43 2-Butanone (MEK)	43	4.623	4.623	0.0	100	242801	222.3	
44 2,2-Dichloropropane	77	4.629	4.629	0.0	71	119932	51.2	
45 cis-1,2-Dichloroethene	96	4.635	4.635	0.0	68	100370	48.4	
48 Chlorobromomethane	128	4.842	4.842	0.0	87	50809	47.5	
49 Tetrahydrofuran	42	4.860	4.860	0.0	88	163446	227.5	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
50 Chloroform	83	4.878	4.878	0.0	80	140829	48.1	
51 1,1,1-Trichloroethane	97	5.024	5.024	0.0	91	127643	48.9	
52 Cyclohexane	56	5.055	5.055	0.0	87	149180	46.7	
54 1,1-Dichloropropene	75	5.146	5.146	0.0	92	115500	50.6	
55 Carbon tetrachloride	117	5.152	5.152	0.0	79	112670	50.1	
57 Benzene	78	5.335	5.335	0.0	96	342278	47.8	
58 1,2-Dichloroethane	62	5.365	5.365	0.0	77	103046	46.3	
62 Trichloroethene	95	5.858	5.858	0.0	90	92845	49.3	
64 Methylcyclohexane	83	5.992	5.992	0.0	87	159620	47.3	
65 1,2-Dichloropropane	63	6.077	6.077	0.0	94	83376	48.2	
67 Dibromomethane	93	6.211	6.211	0.0	84	49761	49.0	
68 Dichlorobromomethane	83	6.320	6.320	0.0	91	100606	47.8	
69 2-Chloroethyl vinyl ether	63	6.527	6.527	0.0	91	298238	248.8	
72 cis-1,3-Dichloropropene	75	6.703	6.703	0.0	82	134663	49.5	
73 4-Methyl-2-pentanone (MIBK)	43	6.801	6.801	0.0	95	480919	225.9	
74 Toluene	92	6.995	6.995	0.0	92	233724	47.7	
75 Ethyl methacrylate	69	7.214	7.214	0.0	87	119096	51.6	
77 trans-1,3-Dichloropropene	75	7.220	7.220	0.0	91	120236	49.3	
79 1,1,2-Trichloroethane	83	7.415	7.415	0.0	83	62900	48.5	
81 Tetrachloroethene	166	7.525	7.525	0.0	90	108316	47.0	
82 1,3-Dichloropropane	76	7.585	7.585	0.0	92	126033	46.8	
80 2-Hexanone	43	7.592	7.592	0.0	94	353751	231.6	
83 Chlorodibromomethane	129	7.829	7.829	0.0	86	85687	46.8	
84 Ethylene Dibromide	107	7.963	7.963	0.0	94	87140	48.4	
87 Chlorobenzene	112	8.413	8.413	0.0	95	277598	46.9	
88 Ethylbenzene	91	8.474	8.474	0.0	97	437542	49.3	
89 1,1,1,2-Tetrachloroethane	131	8.492	8.492	0.0	84	94394	48.4	
90 m-Xylene & p-Xylene	106	8.589	8.589	0.0	100	370998	98.6	
91 o-Xylene	106	9.021	9.021	0.0	95	179083	48.9	
92 Styrene	104	9.045	9.045	0.0	95	298671	50.1	
95 Bromoform	173	9.319	9.319	0.0	95	56192	47.1	
94 Isopropylbenzene	105	9.386	9.386	0.0	94	461166	50.5	
97 1,1,2,2-Tetrachloroethane	83	9.757	9.757	0.0	81	111333	50.0	
101 Bromobenzene	156	9.769	9.769	0.0	86	124765	47.6	
98 trans-1,4-Dichloro-2-butene	53	9.800	9.800	0.0	56	148412	264.7	
100 1,2,3-Trichloropropane	110	9.812	9.812	0.0	57	35217	46.5	
103 2-Chlorotoluene	126	9.928	9.928	0.0	98	122410	49.4	
102 1,3,5-Trimethylbenzene	105	9.964	9.964	0.0	81	391052	50.8	
99 N-Propylbenzene	91	10.031	10.031	0.0	52	318169	49.7	
105 4-Chlorotoluene	126	10.031	10.031	0.0	96	124589	48.8	
106 tert-Butylbenzene	134	10.280	10.280	0.0	87	94304	49.3	
107 1,2,4-Trimethylbenzene	105	10.329	10.329	0.0	95	395489	51.7	
109 sec-Butylbenzene	105	10.481	10.481	0.0	92	509393	51.7	
110 4-Isopropyltoluene	119	10.603	10.603	0.0	94	468094	52.4	
111 1,3-Dichlorobenzene	146	10.645	10.645	0.0	90	241522	48.4	
113 1,4-Dichlorobenzene	146	10.725	10.725	0.0	96	244715	47.9	
115 n-Butylbenzene	91	10.974	10.974	0.0	93	375718	53.2	
116 1,2-Dichlorobenzene	146	11.065	11.065	0.0	98	228483	48.0	
117 1,2-Dibromo-3-Chloropropane	75	11.741	11.741	0.0	77	19291	51.2	
119 1,2,4-Trichlorobenzene	180	12.385	12.385	0.0	95	155556	53.1	
120 Hexachlorobutadiene	225	12.483	12.483	0.0	93	84358	54.7	
121 Naphthalene	128	12.623	12.623	0.0	96	420330	53.9	

Report Date: 19-Dec-2012 12:14:21 Chrom Revision: 2.0 22-Oct-2012 16:30:48
Data File: \\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4453.D

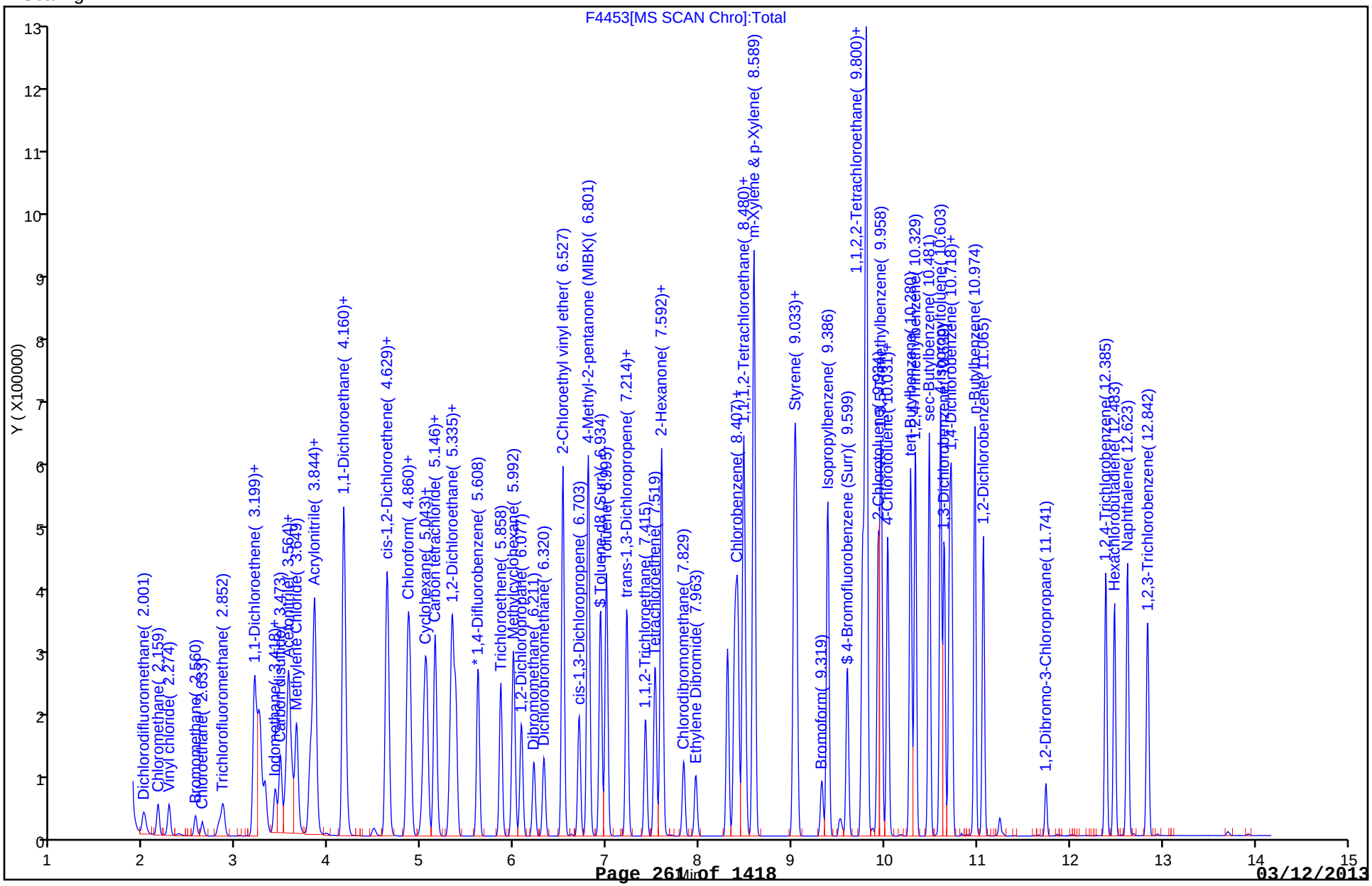
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
122 1,2,3-Trichlorobenzene	180	12.842	12.842	0.0	95	140066	54.1	
S 125 1,2-Dichloroethene, Total	1				0		97.3	
S 126 1,3-Dichloropropene, Total	1				0		98.8	
S 123 Total BTEX	1				0		292.3	
S 124 Xylenes, Total	1				0		147.5	

Report Date: 19-Dec-2012 12:14:22 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4453.D		
Injection Date:	19-Dec-2012 11:53:30	Limit Group:	MV - 8260MCP_RCP
Client ID:		Instrument ID:	HP5973F
Lims Batch ID:	96559	Lims Sample ID:	3
Operator ID:	JMB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Lab Sample ID: CCV 480-96559/4 Calibration Date: 12/19/2012 12:42

Instrument ID: HP5973F Calib Start Date: 12/11/2012 18:50

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 12/11/2012 23:36

Lab File ID: F4454.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethyl ether	Ave	0.3064	0.2658		43.4	50.0	-13.3	20.0
3-Chloro-1-propene	Lin1		0.5174		43.0	50.0	-14.0	20.0
2-Methyl-2-propanol	Ave	0.0719	0.0598		832	1000	-16.8	20.0
Halothane	Ave	0.2095	0.2761		65.9	50.0	31.8*	20.0
Isopropyl ether	Ave	1.244	1.040		41.8	50.0	-16.4	20.0
Tert-butyl ethyl ether	Ave	1.148	0.9898		43.1	50.0	-13.8	20.0
Propionitrile	Ave	0.0741	0.0639		431	500	-13.9	20.0
Tert-amyl methyl ether	Ave	1.011	0.9114		45.1	50.0	-9.9	20.0
n-Heptane	Ave	0.6203	0.5650		45.5	50.0	-8.9	20.0
2,4,4-Trimethyl-1-pentene	Ave	0.3724	0.4112		55.2	50.0	10.4	20.0
2,4,4-Trimethyl-2-pentene	Lin1		0.8786		54.4	50.0	8.8	20.0
1,4-Dioxane	Ave	0.0150	0.0132		1750	2000	-12.3	20.0
2-Nitropropane	Ave	0.2659	0.1908		179	250	-28.3*	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4454.D		
Lims ID:	CCV	Client ID:	
Inject. Date:	19-Dec-2012 14:30:30	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	CCV		
Misc. Info.:	480-0017691-004 =480-0017691-004		
Operator:	JMB	Instrument ID:	HP5973F
Purge Vol:	5.000 mL	ALS Bottle#:	4
Lims Batch ID:	96559	Lims Sample ID:	4
Sublist:	chrom-F-8260 SOIL*sub17		
Detector:	MS SCAN		
Method:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F-8260 SOIL.m		
Last Update:	19-Dec-2012 14:43:19	Calib Date:	17-Dec-2012 14:47:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F4396.D		
Limit Group:	MV - 8260MCP_RCP		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK020		

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.608	5.608	0.0	91	267419	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	83	115610	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	93	124406	50.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.304	5.304	0.0	99	39632	44.9	
$ 5 Toluene-d8 (Surr)	98	6.934	6.934	0.0	81	307505	46.0	
$ 6 4-Bromofluorobenzene (Surr)	174	9.599	9.599	0.0	90	99435	43.2	
10 Dichlorodifluoromethane	85	2.007	2.007	0.0	83	63260	49.4	
11 Chlorodifluoromethane	51	2.019	2.019	0.0	74	85758	0	
16 Dichlorofluoromethane	67	2.810	2.810	0.0	81	110245	0	
18 Ethyl ether	59	3.035	3.035	0.0	89	71082	43.4	
19 Propene oxide	58	3.132	3.132	0.0	94	116453	0	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.236	3.236	0.0	77	89626	57.0	
24 Isopropyl alcohol	45	3.394	3.394	0.0	98	186278	0	
28 3-Chloro-1-propene	41	3.540	3.540	0.0	91	138366	43.0	
31 2-Methyl-2-propanol	59	3.698	3.698	0.0	99	319769	832.0	
35 Hexane	57	3.978	3.978	0.0	90	147379	0	
36 Isopropyl ether	45	4.130	4.130	0.0	94	277997	41.8	
134 Halothane	117	4.130	4.130	0.0	0	73845	65.9	
38 1,1-Dimethoxyethane	75	4.203	4.203	0.0	94	119155	0	
40 2-Chloro-1,3-butadiene	53	4.227	4.227	0.0	87	132836	0	
41 Tert-butyl ethyl ether	59	4.416	4.416	0.0	97	264679	43.1	
42 Ethyl acetate	43	4.617	4.617	0.0	97	99041	0	
46 Propionitrile	54	4.720	4.720	0.0	99	170765	430.6	
47 Methacrylonitrile	41	4.817	4.817	0.0	90	60449	0	
53 Isobutyl alcohol	43	5.201	5.201	0.0	94	294066	0	
56 Tert-amyl methyl ether	73	5.347	5.347	0.0	97	243727	45.1	
59 n-Heptane	43	5.420	5.420	0.0	90	151094	45.5	
136 2,4,4-Trimethyl-1-pentene	55	5.742	5.742	0.0	0	109948	55.2	
60 n-Butanol	56	5.742	5.742	0.0	85	258281	0	
135 2,4,4-Trimethyl-2-pentene	97	5.918	5.918	0.0	0	234955	54.4	
63 Methyl methacrylate	41	6.089	6.089	0.0	88	82995	41.8	

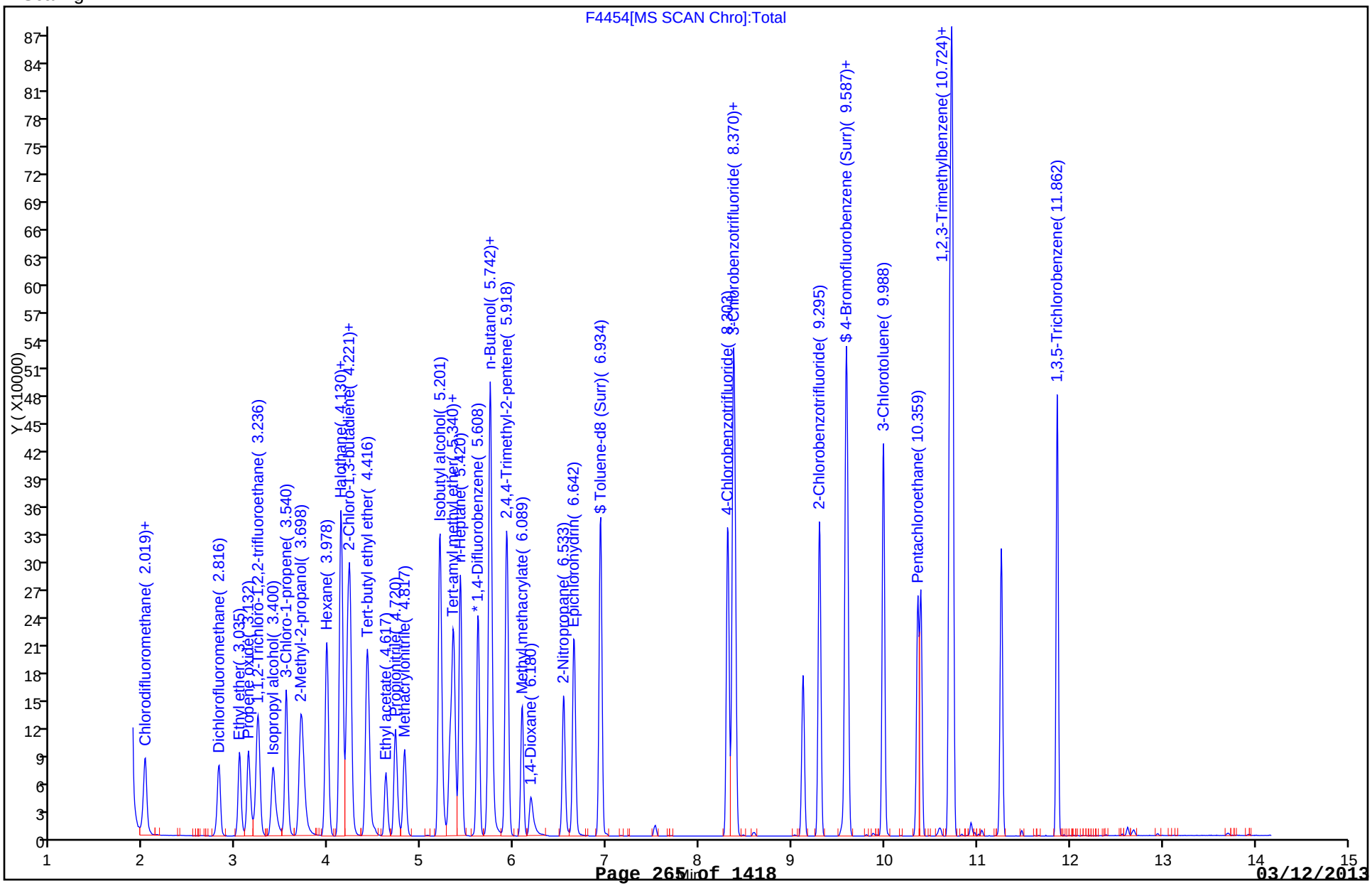
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
66 1,4-Dioxane	88	6.186	6.186	0.0	90	60862	1754.5	
70 2-Nitropropane	43	6.533	6.533	0.0	98	118660	179.3	
71 Epichlorohydrin	57	6.648	6.648	0.0	99	259470	0	
86 4-Chlorobenzotrifluoride	180	8.303	8.303	0.0	89	170008	0	
85 3-Chlorobenzotrifluoride	180	8.364	8.364	0.0	90	169484	0	
93 2-Chlorobenzotrifluoride	180	9.295	9.295	0.0	97	167362	0	
96 Cyclohexanone	55	9.581	9.581	0.0	90	205539	0	
104 3-Chlorotoluene	126	9.988	9.988	0.0	94	129582	0	
108 Pentachloroethane	167	10.359	10.359	0.0	85	58434	0	
114 Dicyclopentadiene	66	10.718	10.718	0.0	96	417011	0	
112 1,2,3-Trimethylbenzene	105	10.731	10.731	0.0	97	395053	0	
118 1,3,5-Trichlorobenzene	180	11.862	11.862	0.0	98	176195	0	

Report Date: 19-Dec-2012 14:43:19 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4454.D		
Injection Date:	19-Dec-2012 14:30:30	Limit Group:	MV - 8260MCP_RCP
Client ID:		Instrument ID:	HP5973F
Lims Batch ID:	96559	Lims Sample ID:	4
Operator ID:	JMB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Lab Sample ID: CCV 480-96559/4 Calibration Date: 12/19/2012 12:42

Instrument ID: HP5973F Calib Start Date: 12/17/2012 13:05

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 12/17/2012 14:47

Lab File ID: F4454.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.2366	0.1000	49.4	50.0	-1.2	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin1		0.3352	0.1000	57.0	50.0	14.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1649	0.1482		44.9	50.0	-10.1	20.0
Toluene-d8 (Surr)	Ave	2.892	2.660		46.0	50.0	-8.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.995	0.8601		43.2	50.0	-13.6	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4454.D		
Lims ID:	CCV	Client ID:	
Inject. Date:	19-Dec-2012 14:30:30	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	CCV		
Misc. Info.:	480-0017691-004 =480-0017691-004		
Operator:	JMB	Instrument ID:	HP5973F
Purge Vol:	5.000 mL	ALS Bottle#:	4
Lims Batch ID:	96559	Lims Sample ID:	4
Sublist:	chrom-F-8260 SOIL*sub17		
Detector:	MS SCAN		

Method:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F-8260 SOIL.m		
Last Update:	19-Dec-2012 14:43:19	Calib Date:	17-Dec-2012 14:47:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F4396.D		
Limit Group:	MV - 8260MCP_RCP		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK020		

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.608	5.608	0.0	91	267419	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	83	115610	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	93	124406	50.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.304	5.304	0.0	99	39632	44.9	
$ 5 Toluene-d8 (Surr)	98	6.934	6.934	0.0	81	307505	46.0	
$ 6 4-Bromofluorobenzene (Surr)	174	9.599	9.599	0.0	90	99435	43.2	
10 Dichlorodifluoromethane	85	2.007	2.007	0.0	83	63260	49.4	
11 Chlorodifluoromethane	51	2.019	2.019	0.0	74	85758	0	
16 Dichlorofluoromethane	67	2.810	2.810	0.0	81	110245	0	
18 Ethyl ether	59	3.035	3.035	0.0	89	71082	43.4	
19 Propene oxide	58	3.132	3.132	0.0	94	116453	0	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.236	3.236	0.0	77	89626	57.0	
24 Isopropyl alcohol	45	3.394	3.394	0.0	98	186278	0	
28 3-Chloro-1-propene	41	3.540	3.540	0.0	91	138366	43.0	
31 2-Methyl-2-propanol	59	3.698	3.698	0.0	99	319769	832.0	
35 Hexane	57	3.978	3.978	0.0	90	147379	0	
36 Isopropyl ether	45	4.130	4.130	0.0	94	277997	41.8	
134 Halothane	117	4.130	4.130	0.0	0	73845	65.9	
38 1,1-Dimethoxyethane	75	4.203	4.203	0.0	94	119155	0	
40 2-Chloro-1,3-butadiene	53	4.227	4.227	0.0	87	132836	0	
41 Tert-butyl ethyl ether	59	4.416	4.416	0.0	97	264679	43.1	
42 Ethyl acetate	43	4.617	4.617	0.0	97	99041	0	
46 Propionitrile	54	4.720	4.720	0.0	99	170765	430.6	
47 Methacrylonitrile	41	4.817	4.817	0.0	90	60449	0	
53 Isobutyl alcohol	43	5.201	5.201	0.0	94	294066	0	
56 Tert-amyl methyl ether	73	5.347	5.347	0.0	97	243727	45.1	
59 n-Heptane	43	5.420	5.420	0.0	90	151094	45.5	
136 2,4,4-Trimethyl-1-pentene	55	5.742	5.742	0.0	0	109948	55.2	
60 n-Butanol	56	5.742	5.742	0.0	85	258281	0	
135 2,4,4-Trimethyl-2-pentene	97	5.918	5.918	0.0	0	234955	54.4	
63 Methyl methacrylate	41	6.089	6.089	0.0	88	82995	41.8	

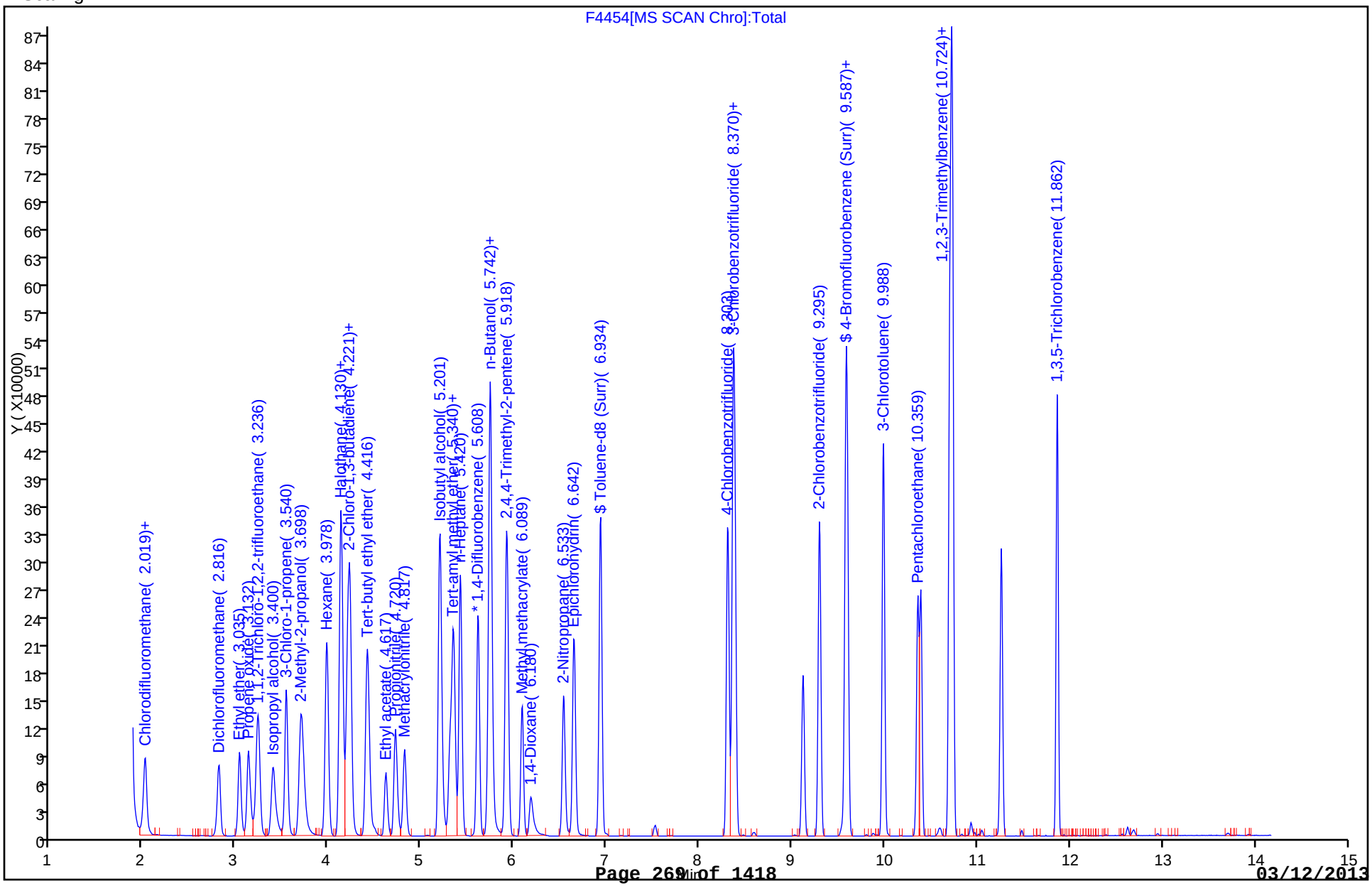
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
66 1,4-Dioxane	88	6.186	6.186	0.0	90	60862	1754.5	
70 2-Nitropropane	43	6.533	6.533	0.0	98	118660	179.3	
71 Epichlorohydrin	57	6.648	6.648	0.0	99	259470	0	
86 4-Chlorobenzotrifluoride	180	8.303	8.303	0.0	89	170008	0	
85 3-Chlorobenzotrifluoride	180	8.364	8.364	0.0	90	169484	0	
93 2-Chlorobenzotrifluoride	180	9.295	9.295	0.0	97	167362	0	
96 Cyclohexanone	55	9.581	9.581	0.0	90	205539	0	
104 3-Chlorotoluene	126	9.988	9.988	0.0	94	129582	0	
108 Pentachloroethane	167	10.359	10.359	0.0	85	58434	0	
114 Dicyclopentadiene	66	10.718	10.718	0.0	96	417011	0	
112 1,2,3-Trimethylbenzene	105	10.731	10.731	0.0	97	395053	0	
118 1,3,5-Trichlorobenzene	180	11.862	11.862	0.0	98	176195	0	

Report Date: 19-Dec-2012 14:43:19 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4454.D		
Injection Date:	19-Dec-2012 14:30:30	Limit Group:	MV - 8260MCP_RCP
Client ID:		Instrument ID:	HP5973F
Lims Batch ID:	96559	Lims Sample ID:	4
Operator ID:	JMB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4221.D		
Lims ID:	BFB	Client ID:	
Inject. Date:	11-Dec-2012 15:25:30	Dil. Factor:	1.0000
Sample Type:	BFB		
Sample ID:	BFB		
Misc. Info.:	480-0017433-002 =480-0017433-002		
Operator:	Jmb	Instrument ID:	HP5973F
Purge Vol:	5.000 mL	ALS Bottle#:	2
Lims Batch ID:	95189	Lims Sample ID:	2
Detector:	MS SCAN		
Method:	\\Bufchrom\ChromData\HP5973F\20121211-17433.b\F-8260 SOIL.m		
Last Update:	11-Dec-2012 15:18:54	Calib Date:	03-Dec-2012 15:37:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973F\20121203-17181.b\F3992.D		
Limit Group:	MV - 8260MCP_RCP		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK010		

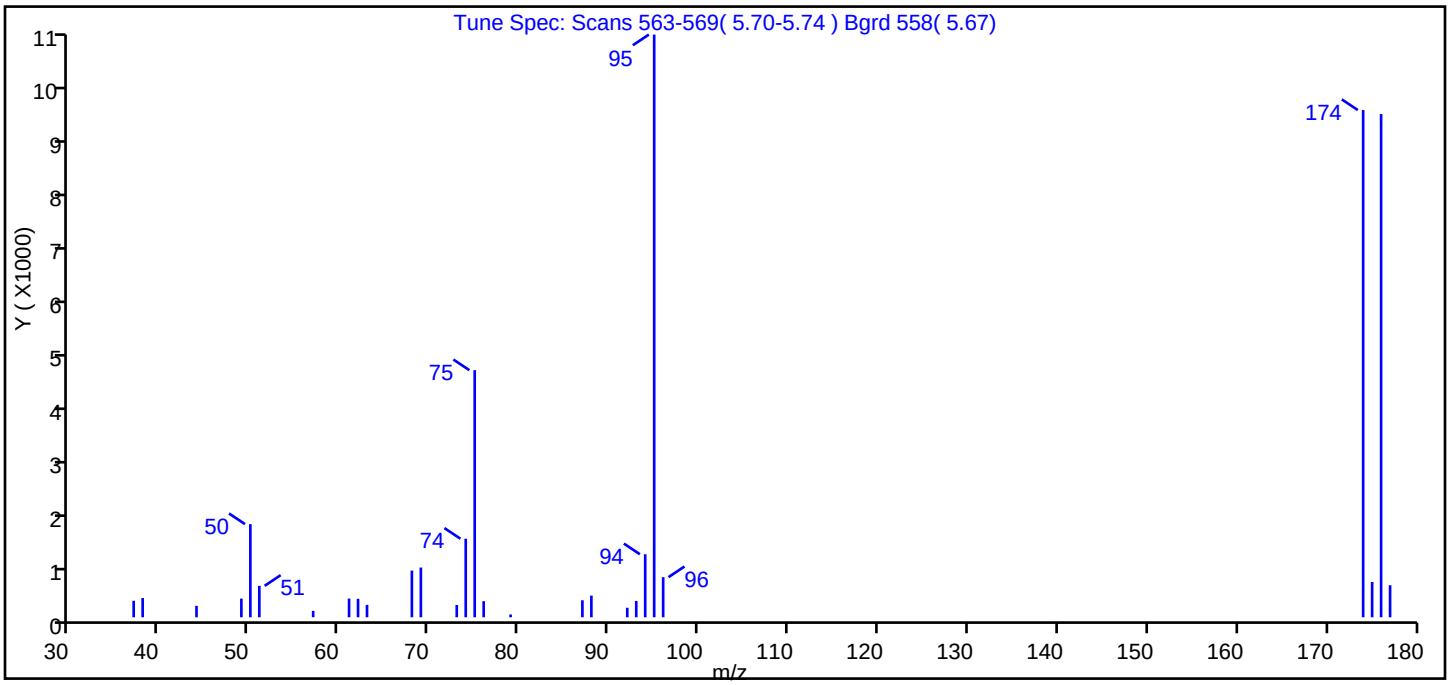
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114		5.608					
* 2 Chlorobenzene-d5	82		8.376					
* 3 1,4-Dichlorobenzene-d4	152		10.700					
$ 61 BFB	95	5.729	5.729	0.0	0	32128	0	

MS Tune Report

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4221.D		
Injection Date:	11-Dec-2012 15:25:30	Limit Group:	MV - 8260MCP_RCP
Client ID:		Instrument ID:	HP5973F
Lims Batch ID:	95189	Lims Sample ID:	2
Operator ID:	Jmb	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm
Tune Method:	BFB Method 8260		

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.98
75	30.00 - 60.00% of mass 95	42.40
96	5.00 - 9.00% of mass 95	6.88
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	87.04
175	5.00 - 9.00% of mass 174	6.05 (6.95)
176	95.00 - 101.00% of mass 174	86.36 (99.22)
177	5.00 - 9.00% of mass 176	5.50 (6.36)

Data File: \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4221.D\F-8260 SOIL.rslt\spectra.d
Injection Date: 11-Dec-2012 15:25:30
Spectrum: Tune Spec: Scans 563-569(5.70-5.74) Bgrd 558(5.67)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 28

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	304	61.00	344	75.00	4553	94.00	1161
38.00	354	62.00	340	76.00	296	95.00	10737
44.00	210	63.00	228	79.00	51	96.00	739
49.00	343	68.00	860	87.00	313	174.00	9346
50.00	1716	69.00	916	88.00	399	175.00	650
51.00	579	73.00	226	92.00	175	176.00	9273
57.00	117	74.00	1447	93.00	300	177.00	590

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F4389.D		
Lims ID:	BFB	Client ID:	
Inject. Date:	17-Dec-2012 11:45:30	Dil. Factor:	1.0000
Sample Type:	BFB		
Sample ID:	BFB		
Misc. Info.:	480-0017620-002 =480-0017620-002		
Operator:	jmb	Instrument ID:	HP5973F
Purge Vol:	5.000 mL	ALS Bottle#:	2
Lims Batch ID:	96157	Lims Sample ID:	2
Detector:	MS SCAN		
Method:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F-8260 SOIL.m		
Last Update:	17-Dec-2012 19:25:21	Calib Date:	17-Dec-2012 14:47:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F4396.D		
Limit Group:	MV - 8260MCP_RCP		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK033		

First Level Reviewer: cwiklinc Date: 17-Dec-2012 19:25:21

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114		5.608					
* 2 Chlorobenzene-d5	82		8.382					
* 3 1,4-Dichlorobenzene-d4	152		10.700					
$ 61 BFB	95	5.728	5.728	0.0	0	27039	0	

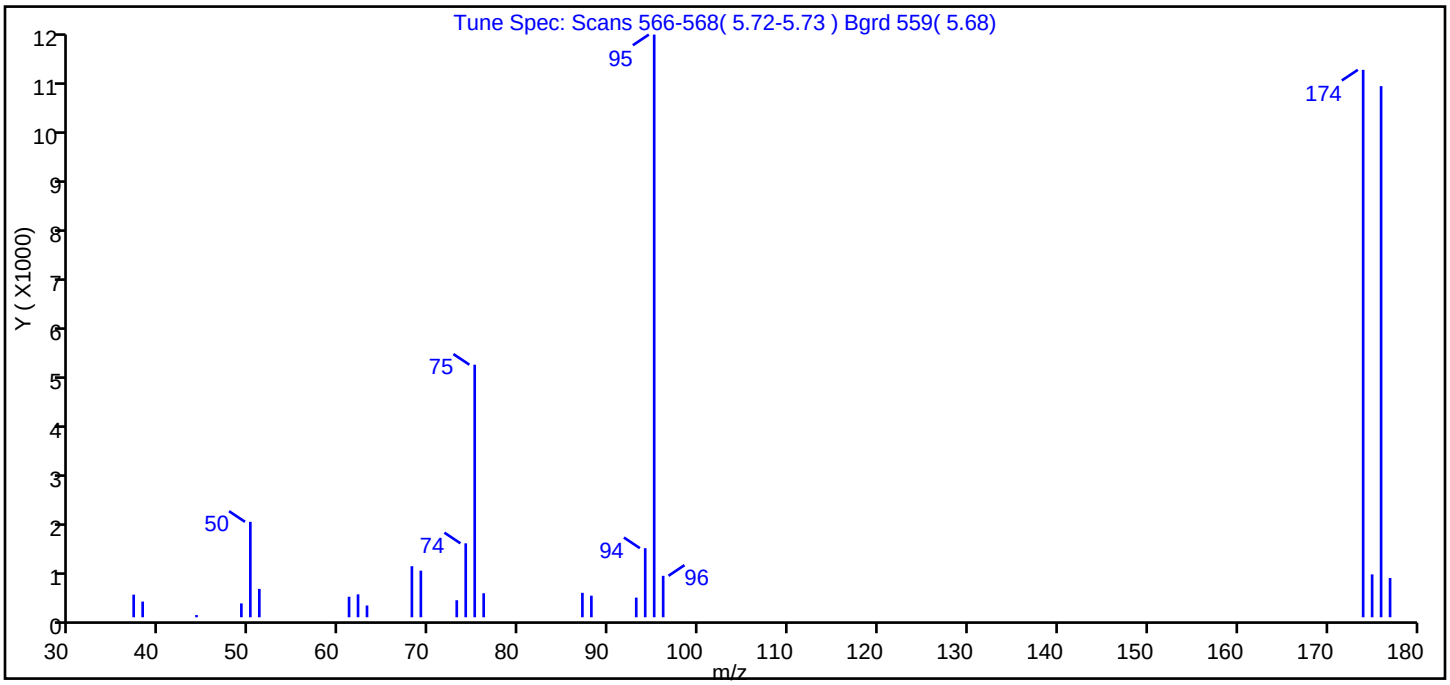
Report Date: 17-Dec-2012 19:25:22 Chrom Revision: 2.0 22-Oct-2012 16:30:48

MS Tune Report

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F4389.D		
Injection Date:	17-Dec-2012 11:45:30	Limit Group:	MV - 8260MCP_RCP
Client ID:		Instrument ID:	HP5973F
Lims Batch ID:	96157	Lims Sample ID:	2
Operator ID:	jmb	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm
Tune Method:	BFB Method 8260		

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.38
75	30.00 - 60.00% of mass 95	43.34
96	5.00 - 9.00% of mass 95	7.11
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	93.95
175	5.00 - 9.00% of mass 174	7.36 (7.83)
176	95.00 - 101.00% of mass 174	91.15 (97.02)
177	5.00 - 9.00% of mass 176	6.74 (7.40)

Data File: \\Bufchrom\ChromData\HP5973F\20121217-17620.b\F4389.D\F-8260 SOIL.rslt\spectra.d
Injection Date: 17-Dec-2012 11:45:30
Spectrum: Tune Spec: Scans 566-568(5.72-5.73) Bgrd 559(5.68)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 25

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	460	62.00	466	76.00	488	174.00	11135
38.00	319	63.00	239	87.00	497	175.00	872
44.00	45	68.00	1039	88.00	439	176.00	10803
49.00	282	69.00	948	93.00	400	177.00	799
50.00	1941	73.00	346	94.00	1405		
51.00	577	74.00	1504	95.00	11852		
61.00	417	75.00	5137	96.00	843		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4451.D		
Lims ID:	BFB	Client ID:	
Inject. Date:	19-Dec-2012 11:00:30	Dil. Factor:	1.0000
Sample Type:	BFB		
Sample ID:	BFB		
Misc. Info.:	480-0017691-001 =480-0017691-001		
Operator:	JMB	Instrument ID:	HP5973F
Purge Vol:	5.000 mL	ALS Bottle#:	1
Lims Batch ID:	96559	Lims Sample ID:	1
Detector:	MS SCAN		
Method:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F-8260 SOIL.m		
Last Update:	20-Dec-2012 14:32:47	Calib Date:	17-Dec-2012 14:47:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F4396.D		
Limit Group:	MV - 8260MCP_RCP		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK010		

First Level Reviewer: ByrnesJ Date: 19-Dec-2012 11:04:30

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114		5.608					
* 2 Chlorobenzene-d5	82		8.382					
* 3 1,4-Dichlorobenzene-d4	152		10.700					
$ 4 1,2-Dichloroethane-d4 (Surr)	67		5.304					
$ 61 BFB	95	5.722	5.722	0.0	0	34305	0	
$ 5 Toluene-d8 (Surr)	98		6.934					
$ 6 4-Bromofluorobenzene (Surr)	174		9.599					

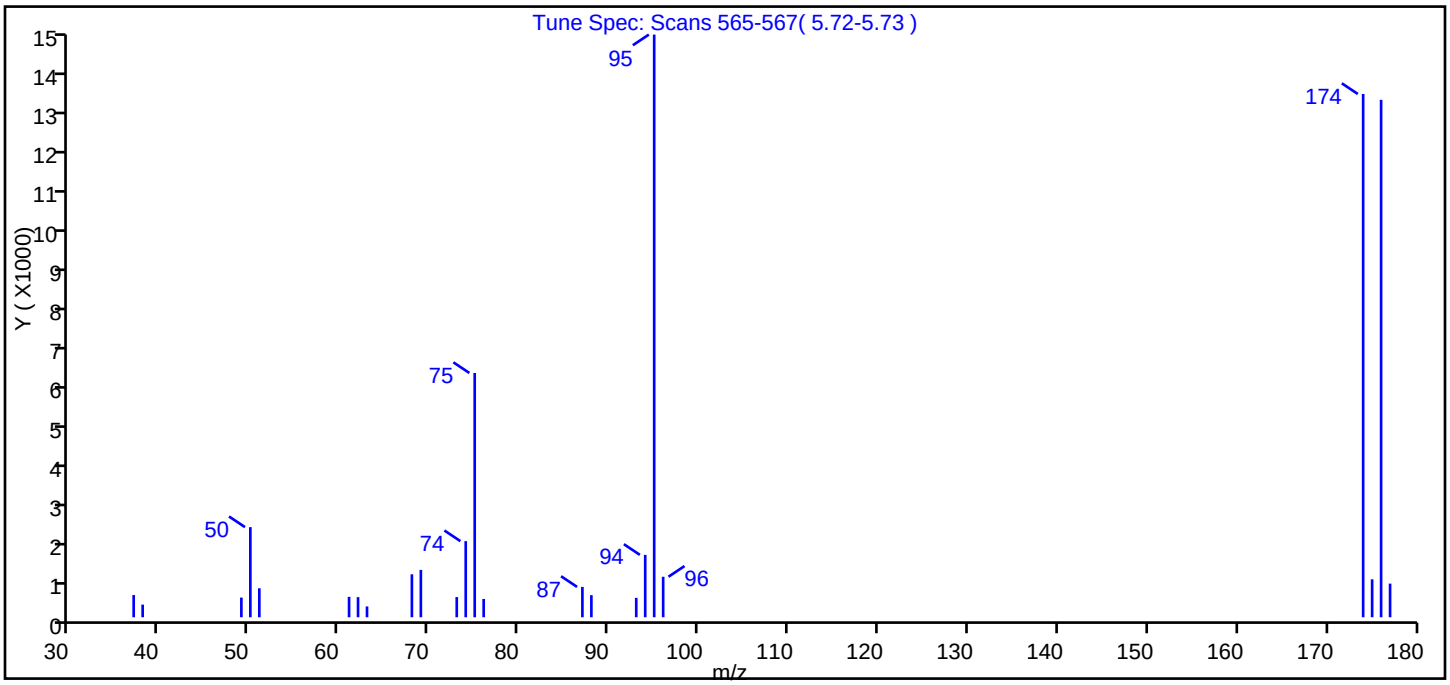
Report Date: 20-Dec-2012 14:32:48 Chrom Revision: 2.0 22-Oct-2012 16:30:48

MS Tune Report

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4451.D		
Injection Date:	19-Dec-2012 11:00:30	Limit Group:	MV - 8260MCP_RCP
Client ID:		Instrument ID:	HP5973F
Lims Batch ID:	96559	Lims Sample ID:	1
Operator ID:	JMB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm
Tune Method:	BFB Method 8260		

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.47
75	30.00 - 60.00% of mass 95	41.92
96	5.00 - 9.00% of mass 95	6.95
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	89.81
175	5.00 - 9.00% of mass 174	6.51 (7.25)
176	95.00 - 101.00% of mass 174	88.80 (98.88)
177	5.00 - 9.00% of mass 176	5.77 (6.50)

Data File: \\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4451.D\F-8260 SOIL.rslt\spectra.d
Injection Date: 19-Dec-2012 11:00:30
Spectrum: Tune Spec: Scans 565-567(5.72-5.73)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 24

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	542	62.00	491	75.00	5963	95.00	14224
38.00	308	63.00	264	76.00	447	96.00	989
49.00	480	68.00	1049	87.00	741	174.00	12774
50.00	2200	69.00	1156	88.00	539	175.00	926
51.00	707	73.00	493	93.00	473	176.00	12631
61.00	498	74.00	1858	94.00	1523	177.00	821

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-30406-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-96559/7

Matrix: Solid | Lab File ID: F4457.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 12/19/2012 15:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 96559 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		2.5	0.50
71-55-6	1,1,1-Trichloroethane	ND		2.5	0.36
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.5	0.81
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.5	1.1
79-00-5	1,1,2-Trichloroethane	ND		2.5	0.65
75-34-3	1,1-Dichloroethane	ND		2.5	0.61
75-35-4	1,1-Dichloroethene	ND		2.5	0.61
563-58-6	1,1-Dichloropropene	ND		2.5	0.71
87-61-6	1,2,3-Trichlorobenzene	ND		2.5	0.53
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.51
120-82-1	1,2,4-Trichlorobenzene	ND		2.5	0.30
95-63-6	1,2,4-Trimethylbenzene	ND		2.5	0.96
96-12-8	1,2-Dibromo-3-Chloropropane	ND		25	2.5
95-50-1	1,2-Dichlorobenzene	ND		2.5	0.39
107-06-2	1,2-Dichloroethane	ND		2.5	0.25
78-87-5	1,2-Dichloropropane	ND		2.5	2.5
108-67-8	1,3,5-Trimethylbenzene	ND		2.5	0.32
541-73-1	1,3-Dichlorobenzene	ND		2.5	0.26
142-28-9	1,3-Dichloropropane	ND		2.5	0.30
106-46-7	1,4-Dichlorobenzene	ND		2.5	0.70
123-91-1	1,4-Dioxane	ND		250	24
594-20-7	2,2-Dichloropropane	ND		2.5	0.85
107-39-1	2,4,4-Trimethyl-1-pentene	ND		5.0	0.43
107-40-4	2,4,4-Trimethyl-2-pentene	ND		5.0	0.53
78-93-3	2-Butanone (MEK)	ND		25	1.8
95-49-8	2-Chlorotoluene	ND		2.5	0.33
591-78-6	2-Hexanone	ND		25	2.5
106-43-4	4-Chlorotoluene	ND		2.5	0.59
99-87-6	4-Isopropyltoluene	ND		2.5	0.40
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	1.6
67-64-1	Acetone	ND		250	4.2
71-43-2	Benzene	ND		2.5	0.25
108-86-1	Bromobenzene	ND		2.5	0.88
75-25-2	Bromoform	ND		2.5	2.5
74-83-9	Bromomethane	ND		5.0	0.45

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-30406-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 480-96559/7
Matrix: Solid
Lab File ID: F4457.D
Analysis Method: 8260C
Date Collected:
Sample wt/vol: 5(g)
Date Analyzed: 12/19/2012 15:47
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 96559
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-15-0	Carbon disulfide	ND		2.5	2.5
56-23-5	Carbon tetrachloride	ND		2.5	0.48
108-90-7	Chlorobenzene	ND		2.5	0.66
74-97-5	Chlorobromomethane	ND		2.5	0.36
124-48-1	Chlorodibromomethane	ND		2.5	0.64
75-00-3	Chloroethane	ND		5.0	1.1
67-66-3	Chloroform	ND		2.5	0.31
74-87-3	Chloromethane	ND		5.0	0.30
156-59-2	cis-1,2-Dichloroethene	ND		2.5	0.64
10061-01-5	cis-1,3-Dichloropropene	ND		2.5	0.72
110-82-7	Cyclohexane	ND		25	0.70
74-95-3	Dibromomethane	ND		2.5	0.52
75-27-4	Dichlorobromomethane	ND		2.5	0.67
75-71-8	Dichlorodifluoromethane	ND		5.0	0.41
60-29-7	Ethyl ether	ND		2.5	2.1
100-41-4	Ethylbenzene	ND		2.5	0.35
106-93-4	Ethylene Dibromide	ND		2.5	0.64
87-68-3	Hexachlorobutadiene	ND		2.5	0.59
108-20-3	Isopropyl ether	ND		2.5	2.5
98-82-8	Isopropylbenzene	ND		2.5	0.75
79-20-9	Methyl acetate	ND		50	0.93
1634-04-4	Methyl tert-butyl ether	ND		2.5	0.49
108-87-2	Methylcyclohexane	ND		2.5	0.76
75-09-2	Methylene Chloride	ND		2.5	2.3
179601-23-1	m-Xylene & p-Xylene	ND		5.0	0.84
91-20-3	Naphthalene	ND		25	0.67
104-51-8	n-Butylbenzene	ND		2.5	0.44
103-65-1	N-Propylbenzene	ND		2.5	0.40
95-47-6	o-Xylene	ND		2.5	0.65
135-98-8	sec-Butylbenzene	ND		2.5	0.44
100-42-5	Styrene	ND		2.5	0.25
994-05-8	Tert-amyl methyl ether	ND		2.5	1.3
637-92-3	Tert-butyl ethyl ether	ND		2.5	2.2
98-06-6	tert-Butylbenzene	ND		2.5	0.52
127-18-4	Tetrachloroethene	ND		2.5	0.67
109-99-9	Tetrahydrofuran	ND		50	4.6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-30406-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 480-96559/7
Matrix: Solid
Lab File ID: F4457.D
Analysis Method: 8260C
Date Collected:
Sample wt/vol: 5(g)
Date Analyzed: 12/19/2012 15:47
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 96559
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		2.5	0.38
156-60-5	trans-1,2-Dichloroethene	ND		2.5	0.52
10061-02-6	trans-1,3-Dichloropropene	ND		2.5	2.2
79-01-6	Trichloroethene	ND		2.5	1.1
75-69-4	Trichlorofluoromethane	ND		5.0	0.47
75-01-4	Vinyl chloride	ND		2.5	0.61

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	96		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	81		70-130
460-00-4	4-Bromofluorobenzene (Surr)	83		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 480-96559/7

Matrix: Solid Lab File ID: F4457.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 12/19/2012 15:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 96559 Units: ug/Kg

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4457.D		
Lims ID:	MB	Client ID:	
Inject. Date:	19-Dec-2012 15:47:30	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	MB		
Misc. Info.:	480-0017691-007 =480-0017691-007		
Operator:	JMB	Instrument ID:	HP5973F
Purge Vol:	5.000 mL	ALS Bottle#:	7
Lims Batch ID:	96559	Lims Sample ID:	7
Detector:	MS SCAN		
Method:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F-8260 SOIL.m		
Last Update:	19-Dec-2012 16:04:12	Calib Date:	17-Dec-2012 14:47:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F4396.D		
Limit Group:	MV - 8260MCP_RCP		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK020		

First Level Reviewer: ByrnesJ Date: 19-Dec-2012 16:01:24

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.608	5.608	0.0	91	200022	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	76	82914	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	89	85090	50.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.304	5.304	0.0	98	26682	40.5	
$ 5 Toluene-d8 (Surr)	98	6.934	6.934	0.0	90	229235	47.8	
$ 6 4-Bromofluorobenzene (Surr)	174	9.599	9.599	0.0	90	68901	41.7	
10 Dichlorodifluoromethane	85		2.007					
11 Chlorodifluoromethane	51		2.019					9
12 Chloromethane	50		2.159					
13 Vinyl chloride	62		2.274					
14 Bromomethane	94		2.560					
15 Chloroethane	64		2.633					
16 Dichlorofluoromethane	67		2.810					
17 Trichlorofluoromethane	101		2.858					
18 Ethyl ether	59		3.035					
19 Propene oxide	58		3.132					
20 Acrolein	56		3.193					
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.236					
22 1,1-Dichloroethene	96		3.260					
23 Acetone	43		3.309					
24 Isopropyl alcohol	45		3.394					
25 Iodomethane	142		3.424					
26 Carbon disulfide	76		3.473					
27 Methyl acetate	43		3.528					
28 3-Chloro-1-propene	41		3.540					9
29 Acetonitrile	40	3.564	3.564	0.0	58	592	5.24	
30 Methylene Chloride	84		3.649					9
31 2-Methyl-2-propanol	59		3.698					
32 Methyl tert-butyl ether	73		3.801					
34 trans-1,2-Dichloroethene	96		3.838					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
33 Acrylonitrile	53		3.856					
35 Hexane	57		3.978					9
36 Isopropyl ether	45		4.130					
134 Halothane	117		4.130					
37 Vinyl acetate	43		4.160					
39 1,1-Dichloroethane	63		4.179					
38 1,1-Dimethoxyethane	75		4.203					
40 2-Chloro-1,3-butadiene	53		4.227					
41 Tert-butyl ethyl ether	59		4.416					
42 Ethyl acetate	43		4.617					
43 2-Butanone (MEK)	43		4.623					
44 2,2-Dichloropropane	77		4.629					
45 cis-1,2-Dichloroethene	96		4.635					
46 Propionitrile	54		4.720					
47 Methacrylonitrile	41		4.817					
48 Chlorobromomethane	128		4.842					
49 Tetrahydrofuran	42		4.860					
50 Chloroform	83		4.878					
51 1,1,1-Trichloroethane	97		5.024					
52 Cyclohexane	56		5.055					
54 1,1-Dichloropropene	75		5.146					
55 Carbon tetrachloride	117		5.152					
53 Isobutyl alcohol	43		5.201					9
57 Benzene	78		5.335					
56 Tert-amyl methyl ether	73		5.347					
58 1,2-Dichloroethane	62		5.365					
59 n-Heptane	43		5.420					
136 2,4,4-Trimethyl-1-pentene	55		5.742					
60 n-Butanol	56		5.742					9
62 Trichloroethene	95		5.858					
135 2,4,4-Trimethyl-2-pentene	97		5.918					
64 Methylcyclohexane	83		5.992					
65 1,2-Dichloropropane	63		6.077					
63 Methyl methacrylate	41		6.089					
66 1,4-Dioxane	88		6.186					
67 Dibromomethane	93		6.211					
68 Dichlorobromomethane	83		6.320					
69 2-Chloroethyl vinyl ether	63		6.527					
70 2-Nitropropane	43		6.533					
71 Epichlorohydrin	57		6.648					
72 cis-1,3-Dichloropropene	75		6.703					
73 4-Methyl-2-pentanone (MIBK)	43		6.801					9
74 Toluene	92		6.995					9
75 Ethyl methacrylate	69		7.214					
77 trans-1,3-Dichloropropene	75		7.220					
79 1,1,2-Trichloroethane	83		7.415					
81 Tetrachloroethene	166		7.525					
82 1,3-Dichloropropane	76		7.585					
80 2-Hexanone	43		7.592					9
83 Chlorodibromomethane	129		7.829					
84 Ethylene Dibromide	107		7.963					
86 4-Chlorobenzotrifluoride	180		8.303					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
85 3-Chlorobenzotrifluoride	180		8.364					
87 Chlorobenzene	112		8.413					
88 Ethylbenzene	91	8.474	8.474	0.0	1	1539	0.2544	
89 1,1,1,2-Tetrachloroethane	131		8.492					
90 m-Xylene & p-Xylene	106		8.589					9
91 o-Xylene	106		9.021					
92 Styrene	104		9.045					
93 2-Chlorobenzotrifluoride	180		9.295					
95 Bromoform	173		9.319					
94 Isopropylbenzene	105		9.386					
96 Cyclohexanone	55		9.581					9
97 1,1,2,2-Tetrachloroethane	83		9.757					
101 Bromobenzene	156		9.769					
98 trans-1,4-Dichloro-2-butene	53		9.800					
100 1,2,3-Trichloropropane	110		9.812					
103 2-Chlorotoluene	126		9.928					
102 1,3,5-Trimethylbenzene	105		9.964					9
104 3-Chlorotoluene	126		9.988					
99 N-Propylbenzene	91		10.031					9
105 4-Chlorotoluene	126		10.031					
106 tert-Butylbenzene	134		10.280					
107 1,2,4-Trimethylbenzene	105	10.329	10.329	0.0	1	3844	0.7837	
108 Pentachloroethane	167		10.359					
109 sec-Butylbenzene	105		10.481					9
110 4-Isopropyltoluene	119		10.603					9
111 1,3-Dichlorobenzene	146		10.645					9
114 Dicyclopentadiene	66		10.718					9
113 1,4-Dichlorobenzene	146		10.725					9
112 1,2,3-Trimethylbenzene	105		10.731					9
76 2-Methylthiophene	97		10.900					
115 n-Butylbenzene	91		10.974					9
78 3-Methylthiophene	97		11.028					
116 1,2-Dichlorobenzene	146		11.065					9
117 1,2-Dibromo-3-Chloropropane	75		11.741					
118 1,3,5-Trichlorobenzene	180		11.862					9
119 1,2,4-Trichlorobenzene	180		12.385					9
120 Hexachlorobutadiene	225		12.483					
121 Naphthalene	128		12.623					9
122 1,2,3-Trichlorobenzene	180		12.842					9
S 125 1,2-Dichloroethene, Total	1		30.000					7
S 126 1,3-Dichloropropene, Total	1		30.000					7
S 123 Total BTEX	1				0		0.2544	
S 124 Xylenes, Total	1		30.000					7
T 137 Ethyl acrylate	1		0.000					1
T 138 Aziridine TIC	1		0.000					1
T 132 Methyl acrylate	1		0.000					1
T 133 cis-1,4-Dichloro-2-butene	88		0.000					1
T 141 Pentachloroethane TIC	1		0.000					1
T 142 1-Bromopropane	1		0.000					1
T 139 Bromoethane TIC	1		0.000					1
T 140 bis(chloromethyl)ether TIC	1		0.000					1
T 9 bis(2-chloromethyl)ether TIC	1		0.000					1

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
T 127 Ethanol TIC	45		0.000					1
T 7 Ethylene oxide	1		0.000					1
T 8 t-Amyl alcohol	59		0.000					1
T 130 Hexachloroethane	117		0.000					1
T 131 Nitrobenzene	77		0.000					1
T 128 Hexachloroethane TIC	1		0.000					1
T 129 tert-amyl alcohol TIC	59		0.000					1

QC Flag Legend

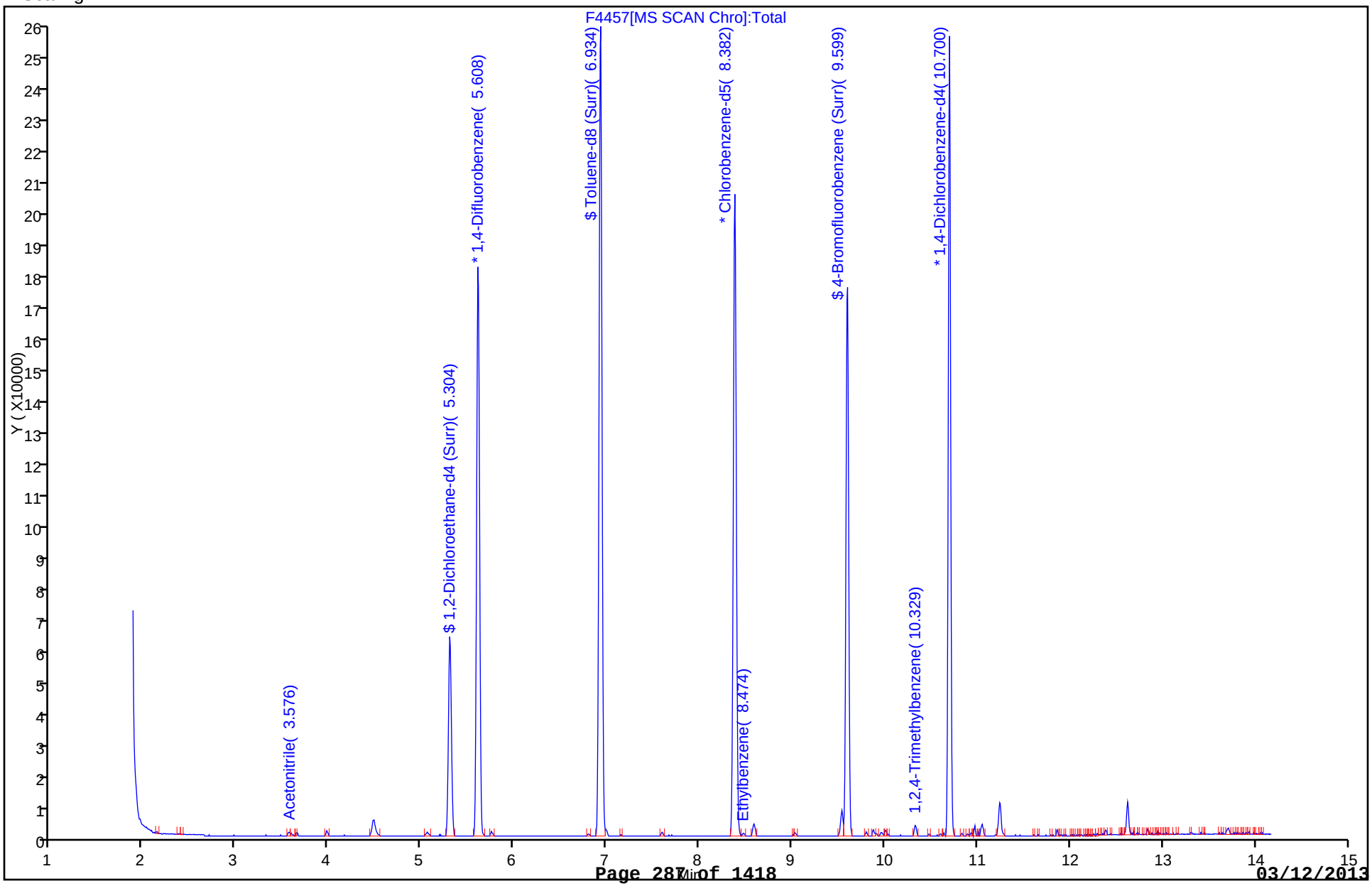
Processing Flags
1 - Missing Peaks
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

Report Date: 19-Dec-2012 16:04:13 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4457.D		
Injection Date:	19-Dec-2012 15:47:30	Limit Group:	MV - 8260MCP_RCP
Client ID:		Instrument ID:	HP5973F
Lims Batch ID:	96559	Lims Sample ID:	7
Operator ID:	JMB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-30406-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 480-96559/5
Matrix: Solid
Lab File ID: F4455.D
Analysis Method: 8260C
Date Collected:
Sample wt/vol: 5(g)
Date Analyzed: 12/19/2012 14:56
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 96559
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	47.7		2.5	0.50
71-55-6	1,1,1-Trichloroethane	48.5		2.5	0.36
79-34-5	1,1,2,2-Tetrachloroethane	50.9		2.5	0.81
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	94.0		2.5	1.1
79-00-5	1,1,2-Trichloroethane	48.1		2.5	0.65
75-34-3	1,1-Dichloroethane	50.2		2.5	0.61
75-35-4	1,1-Dichloroethene	49.0		2.5	0.61
563-58-6	1,1-Dichloropropene	51.1		2.5	0.71
87-61-6	1,2,3-Trichlorobenzene	52.2		2.5	0.53
96-18-4	1,2,3-Trichloropropane	49.3		2.5	0.51
120-82-1	1,2,4-Trichlorobenzene	51.9		2.5	0.30
95-63-6	1,2,4-Trimethylbenzene	51.0		2.5	0.96
96-12-8	1,2-Dibromo-3-Chloropropane	55.5		25	2.5
95-50-1	1,2-Dichlorobenzene	47.5		2.5	0.39
107-06-2	1,2-Dichloroethane	46.5		2.5	0.25
78-87-5	1,2-Dichloropropane	48.5		2.5	2.5
108-67-8	1,3,5-Trimethylbenzene	50.7		2.5	0.32
541-73-1	1,3-Dichlorobenzene	48.1		2.5	0.26
142-28-9	1,3-Dichloropropane	46.8		2.5	0.30
106-46-7	1,4-Dichlorobenzene	46.6		2.5	0.70
123-91-1	1,4-Dioxane	1720		250	24
594-20-7	2,2-Dichloropropane	50.7		2.5	0.85
107-39-1	2,4,4-Trimethyl-1-pentene	52.0		5.0	0.43
107-40-4	2,4,4-Trimethyl-2-pentene	54.6		5.0	0.53
78-93-3	2-Butanone (MEK)	321		25	1.8
95-49-8	2-Chlorotoluene	49.5		2.5	0.33
591-78-6	2-Hexanone	230		25	2.5
106-43-4	4-Chlorotoluene	50.3		2.5	0.59
99-87-6	4-Isopropyltoluene	52.7		2.5	0.40
108-10-1	4-Methyl-2-pentanone (MIBK)	223		25	1.6
67-64-1	Acetone	218	J	250	4.2
71-43-2	Benzene	48.1		2.5	0.25
108-86-1	Bromobenzene	47.5		2.5	0.88
75-25-2	Bromoform	47.6		2.5	2.5
74-83-9	Bromomethane	37.2		5.0	0.45

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-30406-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 480-96559/5
Matrix: Solid
Lab File ID: F4455.D
Analysis Method: 8260C
Date Collected:
Sample wt/vol: 5(g)
Date Analyzed: 12/19/2012 14:56
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 96559
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-15-0	Carbon disulfide	45.3		2.5	2.5
56-23-5	Carbon tetrachloride	49.2		2.5	0.48
108-90-7	Chlorobenzene	46.4		2.5	0.66
74-97-5	Chlorobromomethane	49.0		2.5	0.36
124-48-1	Chlorodibromomethane	46.8		2.5	0.64
75-00-3	Chloroethane	41.9		5.0	1.1
67-66-3	Chloroform	48.6		2.5	0.31
74-87-3	Chloromethane	43.3		5.0	0.30
156-59-2	cis-1,2-Dichloroethene	48.8		2.5	0.64
10061-01-5	cis-1,3-Dichloropropene	50.2		2.5	0.72
110-82-7	Cyclohexane	44.4		25	0.70
74-95-3	Dibromomethane	49.1		2.5	0.52
75-27-4	Dichlorobromomethane	47.9		2.5	0.67
75-71-8	Dichlorodifluoromethane	90.1		5.0	0.41
60-29-7	Ethyl ether	37.3		2.5	2.1
100-41-4	Ethylbenzene	48.6		2.5	0.35
106-93-4	Ethylene Dibromide	48.3		2.5	0.64
87-68-3	Hexachlorobutadiene	54.1		2.5	0.59
108-20-3	Isopropyl ether	42.0		2.5	2.5
98-82-8	Isopropylbenzene	50.5		2.5	0.75
79-20-9	Methyl acetate	46.2	J	50	0.93
1634-04-4	Methyl tert-butyl ether	46.6		2.5	0.49
108-87-2	Methylcyclohexane	45.2		2.5	0.76
75-09-2	Methylene Chloride	45.9		2.5	2.3
179601-23-1	m-Xylene & p-Xylene	96.7		5.0	0.84
91-20-3	Naphthalene	53.5		25	0.67
104-51-8	n-Butylbenzene	53.0		2.5	0.44
103-65-1	N-Propylbenzene	53.5		2.5	0.40
95-47-6	o-Xylene	47.8		2.5	0.65
135-98-8	sec-Butylbenzene	51.4		2.5	0.44
100-42-5	Styrene	49.2		2.5	0.25
994-05-8	Tert-amyl methyl ether	44.1		2.5	1.3
637-92-3	Tert-butyl ethyl ether	41.7		2.5	2.2
98-06-6	tert-Butylbenzene	50.0		2.5	0.52
127-18-4	Tetrachloroethene	49.1		2.5	0.67
109-99-9	Tetrahydrofuran	237		50	4.6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-30406-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 480-96559/5
Matrix: Solid
Lab File ID: F4455.D
Analysis Method: 8260C
Date Collected:
Sample wt/vol: 5(g)
Date Analyzed: 12/19/2012 14:56
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 96559
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	47.0		2.5	0.38
156-60-5	trans-1,2-Dichloroethene	49.6		2.5	0.52
10061-02-6	trans-1,3-Dichloropropene	48.8		2.5	2.2
79-01-6	Trichloroethene	49.7		2.5	1.1
75-69-4	Trichlorofluoromethane	44.4		5.0	0.47
75-01-4	Vinyl chloride	46.0		2.5	0.61

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	86		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	84		70-130
460-00-4	4-Bromofluorobenzene (Surr)	83		70-130

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4455.D		
Lims ID:	LCS	Client ID:	
Inject. Date:	19-Dec-2012 14:56:30	Dil. Factor:	1.0000
Sample Type:	LCS		
Sample ID:	LCS		
Misc. Info.:	480-0017691-005 =480-0017691-005		
Operator:	JMB	Instrument ID:	HP5973F
Purge Vol:	5.000 mL	ALS Bottle#:	5
Lims Batch ID:	96559	Lims Sample ID:	5
Detector:	MS SCAN		

Method:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F-8260 SOIL.m		
Last Update:	19-Dec-2012 15:59:00	Calib Date:	17-Dec-2012 14:47:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F4396.D		
Limit Group:	MV - 8260MCP_RCP		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK020		

First Level Reviewer: ByrnesJ Date: 19-Dec-2012 15:57:17

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.608	5.608	0.0	91	260887	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	74	115303	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	90	123550	50.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.304	5.304	0.0	93	36327	42.2	
$ 5 Toluene-d8 (Surr)	98	6.935	6.934	0.001	90	287800	43.2	
$ 6 4-Bromofluorobenzene (Surr)	174	9.599	9.599	0.0	89	94962	41.4	
10 Dichlorodifluoromethane	85	2.001	2.007	-0.006	87	113680	90.1	
11 Chlorodifluoromethane	51	2.013	2.019	-0.006	73	83206	0	
12 Chloromethane	50	2.153	2.159	-0.006	89	56548	43.3	
13 Vinyl chloride	62	2.268	2.274	-0.006	81	60714	46.0	
14 Bromomethane	94	2.554	2.560	-0.006	78	18774	37.2	
15 Chloroethane	64	2.627	2.633	-0.006	83	19134	41.9	
16 Dichlorofluoromethane	67	2.804	2.810	-0.006	78	89306	0	
17 Trichlorofluoromethane	101	2.853	2.858	-0.006	81	76575	44.4	
18 Ethyl ether	59	3.029	3.035	-0.006	88	59660	37.3	
19 Propene oxide	58	3.126	3.132	-0.006	91	103699	0	
20 Acrolein	56	3.193	3.193	0.0	91	243706	884.1	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.224	3.236	-0.012	79	145283	94.0	
22 1,1-Dichloroethene	96	3.260	3.260	0.0	83	72228	49.0	
23 Acetone	43	3.309	3.309	0.0	98	137579	218.2	
24 Isopropyl alcohol	45	3.400	3.394	0.006	98	176823	0	
25 Iodomethane	142	3.418	3.424	-0.006	96	105686	44.3	
26 Carbon disulfide	76	3.473	3.473	0.0	98	216548	45.3	
27 Methyl acetate	43	3.528	3.528	0.0	82	96661	46.2	
28 3-Chloro-1-propene	41	3.564	3.540	0.024	38	591391	199.7	
29 Acetonitrile	40	3.564	3.564	0.0	97	277259	1880.9	
30 Methylene Chloride	84	3.649	3.649	0.0	81	83128	45.9	
31 2-Methyl-2-propanol	59	3.704	3.698	0.006	97	287952	767.9	
32 Methyl tert-butyl ether	73	3.808	3.801	0.007	87	211083	46.6	
34 trans-1,2-Dichloroethene	96	3.838	3.838	0.0	94	87388	49.6	

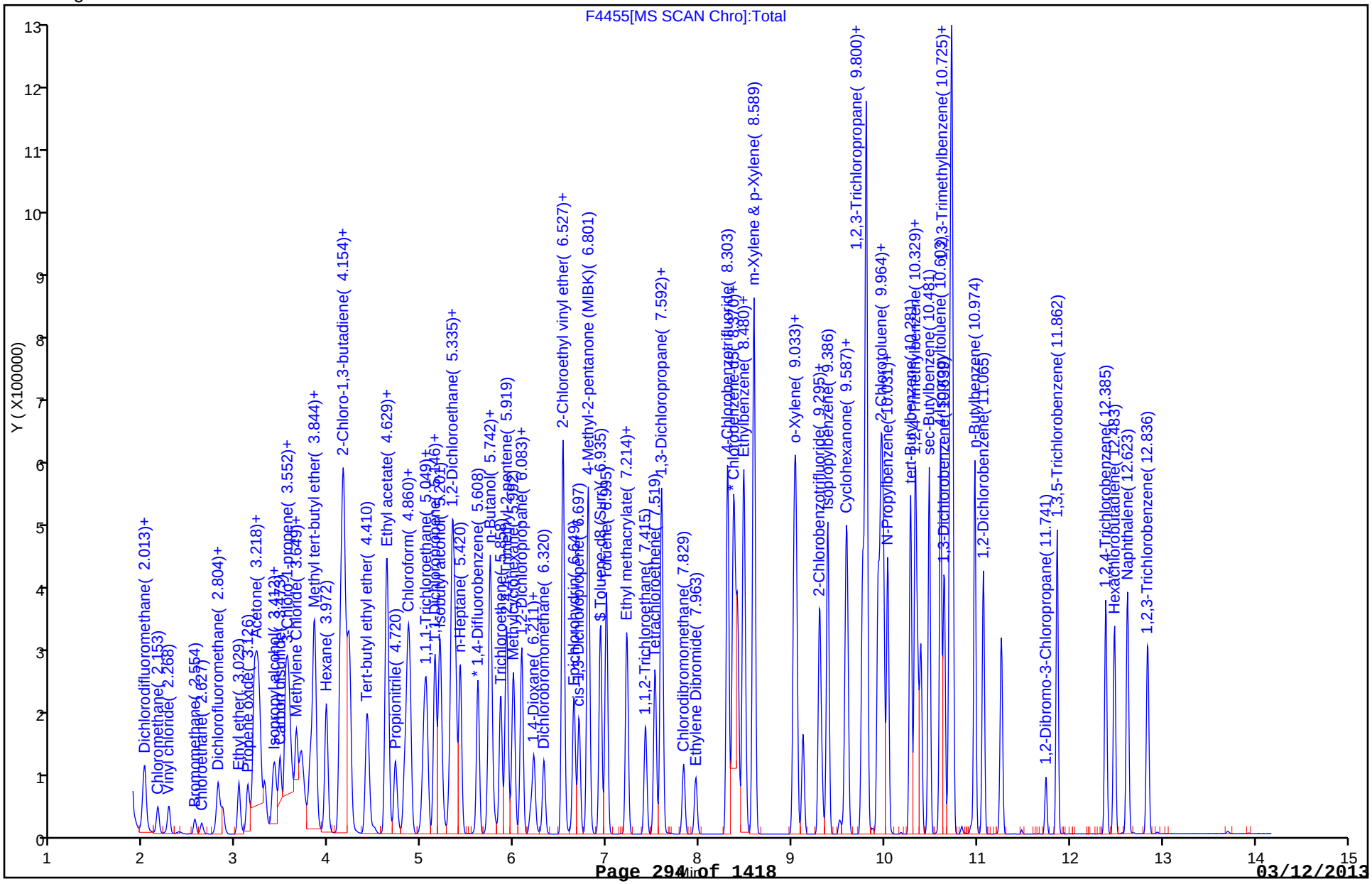
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
33 Acrylonitrile	53	3.856	3.856	0.0	98	183101	230.8	
35 Hexane	57	3.972	3.978	-0.006	89	136179	0	
36 Isopropyl ether	45	4.130	4.130	0.0	71	272705	42.0	
134 Halothane	117	4.130	4.130	0.0	0	72429	66.3	
37 Vinyl acetate	43	4.154	4.160	-0.006	97	928515	286.8	
39 1,1-Dichloroethane	63	4.179	4.179	0.0	68	140656	50.2	
38 1,1-Dimethoxyethane	75	4.203	4.203	0.0	64	119693	0	
40 2-Chloro-1,3-butadiene	53	4.227	4.227	0.0	86	128723	0	
41 Tert-butyl ethyl ether	59	4.416	4.416	0.0	97	249657	41.7	
42 Ethyl acetate	43	4.617	4.617	0.0	93	326678	0	
43 2-Butanone (MEK)	43	4.617	4.623	-0.006	98	326678	321.2	
44 2,2-Dichloropropane	77	4.629	4.629	0.0	61	110611	50.7	
45 cis-1,2-Dichloroethene	96	4.635	4.635	0.0	69	94273	48.8	
46 Propionitrile	54	4.720	4.720	0.0	97	167363	432.6	
47 Methacrylonitrile	41	4.818	4.817	0.001	90	50796	0	
48 Chlorobromomethane	128	4.842	4.842	0.0	87	48766	49.0	
49 Tetrahydrofuran	42	4.860	4.860	0.0	90	158838	237.5	
50 Chloroform	83	4.878	4.878	0.0	69	132326	48.6	
51 1,1,1-Trichloroethane	97	5.024	5.024	0.0	91	117816	48.5	
52 Cyclohexane	56	5.055	5.055	0.0	87	131862	44.4	
54 1,1-Dichloropropene	75	5.140	5.146	-0.006	94	108490	51.1	
55 Carbon tetrachloride	117	5.152	5.152	0.0	79	102954	49.2	
53 Isobutyl alcohol	43	5.201	5.201	0.0	91	275656	0	
57 Benzene	78	5.329	5.335	-0.005	95	320409	48.1	
56 Tert-amyl methyl ether	73	5.347	5.347	0.0	95	232517	44.1	
58 1,2-Dichloroethane	62	5.365	5.365	0.0	74	96352	46.5	
59 n-Heptane	43	5.420	5.420	0.0	91	140651	43.5	
136 2,4,4-Trimethyl-1-pentene	55	5.736	5.742	-0.006	0	101053	52.0	
60 n-Butanol	56	5.748	5.742	0.006	85	242860	0	
62 Trichloroethene	95	5.858	5.858	0.0	89	87165	49.7	
135 2,4,4-Trimethyl-2-pentene	97	5.919	5.918	0.001	0	229845	54.6	
64 Methylcyclohexane	83	5.992	5.992	0.0	85	141767	45.2	
65 1,2-Dichloropropane	63	6.077	6.077	0.0	94	78181	48.5	
63 Methyl methacrylate	41	6.083	6.089	-0.006	94	120715	62.4	
66 1,4-Dioxane	88	6.174	6.186	-0.012	89	59425	1717.7	
67 Dibromomethane	93	6.211	6.211	0.0	83	46428	49.1	
68 Dichlorobromomethane	83	6.320	6.320	0.0	92	93813	47.9	
69 2-Chloroethyl vinyl ether	63	6.527	6.527	0.0	90	264511	237.0	
70 2-Nitropropane	43	6.527	6.533	-0.006	97	288075	438.4	
71 Epichlorohydrin	57	6.649	6.648	0.001	97	254425	0	
72 cis-1,3-Dichloropropene	75	6.703	6.703	0.0	81	127302	50.2	
73 4-Methyl-2-pentanone (MIBK)	43	6.801	6.801	0.0	95	449361	222.7	
74 Toluene	92	6.995	6.995	0.0	92	218309	47.0	
75 Ethyl methacrylate	69	7.214	7.214	0.0	87	105411	48.2	
77 trans-1,3-Dichloropropene	75	7.221	7.220	0.001	92	112751	48.8	
79 1,1,2-Trichloroethane	83	7.415	7.415	0.0	84	59114	48.1	
81 Tetrachloroethene	166	7.519	7.525	-0.006	90	107206	49.1	
82 1,3-Dichloropropane	76	7.586	7.585	0.001	92	119509	46.8	
80 2-Hexanone	43	7.592	7.592	0.0	94	332286	229.6	
83 Chlorodibromomethane	129	7.829	7.829	0.0	85	81090	46.8	
84 Ethylene Dibromide	107	7.963	7.963	0.0	96	82390	48.3	
86 4-Chlorobenzotrifluoride	180	8.303	8.303	0.0	90	162334	0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
85 3-Chlorobenzotrifluoride	180	8.364	8.364	0.0	86	159921	0	
87 Chlorobenzene	112	8.413	8.413	0.0	96	260623	46.4	
88 Ethylbenzene	91	8.474	8.474	0.0	97	408528	48.6	
89 1,1,1,2-Tetrachloroethane	131	8.492	8.492	0.0	85	88258	47.7	
90 m-Xylene & p-Xylene	106	8.589	8.589	0.0	100	344727	96.7	
91 o-Xylene	106	9.021	9.021	0.0	95	165956	47.8	
92 Styrene	104	9.046	9.045	0.001	95	277985	49.2	
93 2-Chlorobenzotrifluoride	180	9.295	9.295	0.0	96	159306	0	
95 Bromoform	173	9.325	9.319	0.006	95	53859	47.6	
94 Isopropylbenzene	105	9.386	9.386	0.0	94	429613	50.5	
96 Cyclohexanone	55	9.581	9.581	0.0	89	182767	0	
97 1,1,2,2-Tetrachloroethane	83	9.757	9.757	0.0	78	105519	50.9	
101 Bromobenzene	156	9.770	9.769	0.001	86	115925	47.5	
98 trans-1,4-Dichloro-2-butene	53	9.800	9.800	0.0	55	131070	251.0	
100 1,2,3-Trichloropropane	110	9.812	9.812	0.0	70	34783	49.3	
103 2-Chlorotoluene	126	9.928	9.928	0.0	98	114295	49.5	
102 1,3,5-Trimethylbenzene	105	9.958	9.964	-0.006	92	363782	50.7	
104 3-Chlorotoluene	126	9.989	9.988	0.001	83	134667	0	
99 N-Propylbenzene	91	10.031	10.031	0.0	52	318847	53.5	
105 4-Chlorotoluene	126	10.031	10.031	0.0	96	119575	50.3	
106 tert-Butylbenzene	134	10.281	10.280	0.001	87	89125	50.0	
107 1,2,4-Trimethylbenzene	105	10.329	10.329	0.0	94	363446	51.0	
108 Pentachloroethane	167	10.360	10.359	0.001	87	59853	0	
109 sec-Butylbenzene	105	10.481	10.481	0.0	92	471872	51.4	
110 4-Isopropyltoluene	119	10.603	10.603	0.0	94	438366	52.7	
111 1,3-Dichlorobenzene	146	10.646	10.645	0.001	89	223479	48.1	
114 Dicyclopentadiene	66	10.719	10.718	0.001	96	400731	0	
113 1,4-Dichlorobenzene	146	10.725	10.725	0.0	82	222063	46.6	
112 1,2,3-Trimethylbenzene	105	10.731	10.731	0.001	93	382255	0	
115 n-Butylbenzene	91	10.974	10.974	0.0	93	348886	53.0	
116 1,2-Dichlorobenzene	146	11.065	11.065	0.0	98	210454	47.5	
117 1,2-Dibromo-3-Chloropropane	75	11.741	11.741	0.0	77	19564	55.5	
118 1,3,5-Trichlorobenzene	180	11.862	11.862	0.0	97	173305	0	
119 1,2,4-Trichlorobenzene	180	12.385	12.385	0.0	94	141673	51.9	
120 Hexachlorobutadiene	225	12.483	12.483	0.0	94	77676	54.1	
121 Naphthalene	128	12.623	12.623	0.0	96	388247	53.5	
122 1,2,3-Trichlorobenzene	180	12.842	12.842	0.0	95	125818	52.2	
S 125 1,2-Dichloroethene, Total	1				0		98.3	
S 126 1,3-Dichloropropene, Total	1				0		99.0	
S 124 Xylenes, Total	1				0		144.5	

Report Date: 19-Dec-2012 15:59:01 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4455.D		
Injection Date:	19-Dec-2012 14:56:30	Limit Group:	MV - 8260MCP_RCP
Client ID:		Instrument ID:	HP5973F
Lims Batch ID:	96559	Lims Sample ID:	5
Operator ID:	JMB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm
Y Scaling:			



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-30406-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCSD 480-96559/6
Matrix: Solid
Lab File ID: F4456.D
Analysis Method: 8260C
Date Collected:
Sample wt/vol: 5(g)
Date Analyzed: 12/19/2012 15:21
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 96559
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	46.2		2.5	0.50
71-55-6	1,1,1-Trichloroethane	44.9		2.5	0.36
79-34-5	1,1,2,2-Tetrachloroethane	49.8		2.5	0.81
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	84.9		2.5	1.1
79-00-5	1,1,2-Trichloroethane	46.8		2.5	0.65
75-34-3	1,1-Dichloroethane	47.3		2.5	0.61
75-35-4	1,1-Dichloroethene	45.2		2.5	0.61
563-58-6	1,1-Dichloropropene	47.0		2.5	0.71
87-61-6	1,2,3-Trichlorobenzene	52.3		2.5	0.53
96-18-4	1,2,3-Trichloropropane	48.3		2.5	0.51
120-82-1	1,2,4-Trichlorobenzene	51.7		2.5	0.30
95-63-6	1,2,4-Trimethylbenzene	48.0		2.5	0.96
96-12-8	1,2-Dibromo-3-Chloropropane	53.4		25	2.5
95-50-1	1,2-Dichlorobenzene	46.2		2.5	0.39
107-06-2	1,2-Dichloroethane	45.4		2.5	0.25
78-87-5	1,2-Dichloropropane	46.5		2.5	2.5
108-67-8	1,3,5-Trimethylbenzene	47.2		2.5	0.32
541-73-1	1,3-Dichlorobenzene	45.9		2.5	0.26
142-28-9	1,3-Dichloropropane	45.7		2.5	0.30
106-46-7	1,4-Dichlorobenzene	44.7		2.5	0.70
123-91-1	1,4-Dioxane	1550		250	24
594-20-7	2,2-Dichloropropane	47.5		2.5	0.85
107-39-1	2,4,4-Trimethyl-1-pentene	48.4		5.0	0.43
107-40-4	2,4,4-Trimethyl-2-pentene	47.9		5.0	0.53
78-93-3	2-Butanone (MEK)	310		25	1.8
95-49-8	2-Chlorotoluene	46.6		2.5	0.33
591-78-6	2-Hexanone	224		25	2.5
106-43-4	4-Chlorotoluene	46.7		2.5	0.59
99-87-6	4-Isopropyltoluene	49.1		2.5	0.40
108-10-1	4-Methyl-2-pentanone (MIBK)	215		25	1.6
67-64-1	Acetone	206	J	250	4.2
71-43-2	Benzene	45.2		2.5	0.25
108-86-1	Bromobenzene	45.6		2.5	0.88
75-25-2	Bromoform	47.2		2.5	2.5
74-83-9	Bromomethane	33.7		5.0	0.45

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-30406-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCSD 480-96559/6
Matrix: Solid
Lab File ID: F4456.D
Analysis Method: 8260C
Date Collected:
Sample wt/vol: 5(g)
Date Analyzed: 12/19/2012 15:21
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 96559
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-15-0	Carbon disulfide	40.5		2.5	2.5
56-23-5	Carbon tetrachloride	45.5		2.5	0.48
108-90-7	Chlorobenzene	44.1		2.5	0.66
74-97-5	Chlorobromomethane	46.4		2.5	0.36
124-48-1	Chlorodibromomethane	45.6		2.5	0.64
75-00-3	Chloroethane	37.9		5.0	1.1
67-66-3	Chloroform	46.2		2.5	0.31
74-87-3	Chloromethane	40.5		5.0	0.30
156-59-2	cis-1,2-Dichloroethene	45.8		2.5	0.64
10061-01-5	cis-1,3-Dichloropropene	48.7		2.5	0.72
110-82-7	Cyclohexane	40.4		25	0.70
74-95-3	Dibromomethane	49.3		2.5	0.52
75-27-4	Dichlorobromomethane	46.4		2.5	0.67
75-71-8	Dichlorodifluoromethane	82.2		5.0	0.41
60-29-7	Ethyl ether	37.1		2.5	2.1
100-41-4	Ethylbenzene	45.8		2.5	0.35
106-93-4	Ethylene Dibromide	47.3		2.5	0.64
87-68-3	Hexachlorobutadiene	50.2		2.5	0.59
108-20-3	Isopropyl ether	41.0		2.5	2.5
98-82-8	Isopropylbenzene	46.5		2.5	0.75
79-20-9	Methyl acetate	43.4	J	50	0.93
1634-04-4	Methyl tert-butyl ether	45.7		2.5	0.49
108-87-2	Methylcyclohexane	41.3		2.5	0.76
75-09-2	Methylene Chloride	44.1		2.5	2.3
179601-23-1	m-Xylene & p-Xylene	91.0		5.0	0.84
91-20-3	Naphthalene	53.4		25	0.67
104-51-8	n-Butylbenzene	49.4		2.5	0.44
103-65-1	N-Propylbenzene	50.3		2.5	0.40
95-47-6	o-Xylene	45.9		2.5	0.65
135-98-8	sec-Butylbenzene	47.5		2.5	0.44
100-42-5	Styrene	47.6		2.5	0.25
994-05-8	Tert-amyl methyl ether	43.2		2.5	1.3
637-92-3	Tert-butyl ethyl ether	40.0		2.5	2.2
98-06-6	tert-Butylbenzene	46.4		2.5	0.52
127-18-4	Tetrachloroethene	46.5		2.5	0.67
109-99-9	Tetrahydrofuran	226		50	4.6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-30406-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCSD 480-96559/6
Matrix: Solid
Lab File ID: F4456.D
Analysis Method: 8260C
Date Collected:
Sample wt/vol: 5(g)
Date Analyzed: 12/19/2012 15:21
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 96559
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	44.3		2.5	0.38
156-60-5	trans-1,2-Dichloroethene	45.7		2.5	0.52
10061-02-6	trans-1,3-Dichloropropene	48.0		2.5	2.2
79-01-6	Trichloroethene	47.2		2.5	1.1
75-69-4	Trichlorofluoromethane	40.1		5.0	0.47
75-01-4	Vinyl chloride	41.8		2.5	0.61

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	87		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		70-130
460-00-4	4-Bromofluorobenzene (Surr)	83		70-130

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4456.D		
Lims ID:	LCSD	Client ID:	
Inject. Date:	19-Dec-2012 15:21:30	Dil. Factor:	1.0000
Sample Type:	LCSD		
Sample ID:	LCSD		
Misc. Info.:	480-0017691-006 =480-0017691-006		
Operator:	JMB	Instrument ID:	HP5973F
Purge Vol:	5.000 mL	ALS Bottle#:	6
Lims Batch ID:	96559	Lims Sample ID:	6
Detector:	MS SCAN		

Method:	\\Bufchrom\ChromData\HP5973F\20121219-17691.b\F-8260 SOIL.m		
Last Update:	19-Dec-2012 16:00:45	Calib Date:	17-Dec-2012 14:47:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973F\20121217-17620.b\F4396.D		
Limit Group:	MV - 8260MCP_RCP		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:	ZB-624	Column Dia:	0.25 mm
Process Host:	XAWRK020		

First Level Reviewer: ByrnesJ Date: 19-Dec-2012 16:00:02

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
* 1 1,4-Difluorobenzene	114	5.608	5.608	0.0	92	289227	50.0	
* 2 Chlorobenzene-d5	82	8.382	8.382	0.0	77	127807	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.700	10.700	0.0	90	138056	50.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.304	5.304	0.0	94	41484	43.5	
$ 5 Toluene-d8 (Surr)	98	6.928	6.934	-0.006	81	322915	43.7	
$ 6 4-Bromofluorobenzene (Surr)	174	9.599	9.599	0.0	90	105259	41.4	
10 Dichlorodifluoromethane	85	1.989	2.007	-0.018	86	114889	82.2	
11 Chlorodifluoromethane	51	2.007	2.019	-0.012	73	84304	0	
12 Chloromethane	50	2.147	2.159	-0.012	89	58680	40.5	
13 Vinyl chloride	62	2.262	2.274	-0.012	81	61182	41.8	
14 Bromomethane	94	2.542	2.560	-0.018	79	18555	33.7	
15 Chloroethane	64	2.615	2.633	-0.018	70	19182	37.9	
16 Dichlorofluoromethane	67	2.798	2.810	-0.012	80	91082	0	
17 Trichlorofluoromethane	101	2.840	2.858	-0.018	81	76519	40.1	
18 Ethyl ether	59	3.017	3.035	-0.018	89	65727	37.1	
19 Propene oxide	58	3.120	3.132	-0.012	92	107770	0	
20 Acrolein	56	3.187	3.193	-0.006	91	254914	834.2	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.217	3.236	-0.019	79	145346	84.9	
22 1,1-Dichloroethene	96	3.254	3.260	-0.006	82	73885	45.2	
23 Acetone	43	3.303	3.309	-0.006	97	143983	206.0	
24 Isopropyl alcohol	45	3.388	3.394	-0.006	99	187573	0	
25 Iodomethane	142	3.412	3.424	-0.012	96	109590	41.5	
26 Carbon disulfide	76	3.467	3.473	-0.006	98	214207	40.5	
27 Methyl acetate	43	3.522	3.528	-0.006	95	100656	43.4	
28 3-Chloro-1-propene	41	3.552	3.540	0.012	41	637128	193.9	
29 Acetonitrile	40	3.558	3.564	-0.006	98	289367	1770.6	
30 Methylene Chloride	84	3.643	3.649	-0.006	82	88562	44.1	
31 2-Methyl-2-propanol	59	3.698	3.698	0.0	97	304091	731.5	
32 Methyl tert-butyl ether	73	3.802	3.801	0.001	87	229480	45.7	
34 trans-1,2-Dichloroethene	96	3.832	3.838	-0.006	96	89399	45.7	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
33 Acrylonitrile	53	3.850	3.856	-0.006	98	195217	222.0	
35 Hexane	57	3.966	3.978	-0.012	90	135658	0	
36 Isopropyl ether	45	4.124	4.130	-0.006	75	294946	41.0	
134 Halothane	117	4.124	4.130	-0.006	0	74416	61.4	
37 Vinyl acetate	43	4.154	4.160	-0.006	97	1000872	278.9	
39 1,1-Dichloroethane	63	4.173	4.179	-0.006	69	146850	47.3	
38 1,1-Dimethoxyethane	75	4.197	4.203	-0.006	63	126340	0	
40 2-Chloro-1,3-butadiene	53	4.221	4.227	-0.006	87	131735	0	
41 Tert-butyl ethyl ether	59	4.410	4.416	-0.006	97	265818	40.0	
42 Ethyl acetate	43	4.617	4.617	0.0	92	349247	0	
43 2-Butanone (MEK)	43	4.617	4.623	-0.006	98	349247	309.7	
44 2,2-Dichloropropane	77	4.623	4.629	-0.006	80	114730	47.5	
45 cis-1,2-Dichloroethene	96	4.629	4.635	-0.006	68	98118	45.8	
46 Propionitrile	54	4.714	4.720	-0.006	98	174506	406.9	
47 Methacrylonitrile	41	4.811	4.817	-0.006	90	61004	0	
48 Chlorobromomethane	128	4.842	4.842	0.0	80	51212	46.4	
49 Tetrahydrofuran	42	4.854	4.860	-0.006	91	167361	225.7	
50 Chloroform	83	4.872	4.878	-0.006	80	139572	46.2	
51 1,1,1-Trichloroethane	97	5.024	5.024	0.0	89	120838	44.9	
52 Cyclohexane	56	5.049	5.055	-0.006	87	132973	40.4	
54 1,1-Dichloropropene	75	5.140	5.146	-0.006	94	110717	47.0	
55 Carbon tetrachloride	117	5.152	5.152	0.0	80	105255	45.5	
53 Isobutyl alcohol	43	5.195	5.201	-0.006	91	291617	0	
57 Benzene	78	5.328	5.335	-0.006	95	334320	45.2	
56 Tert-amyl methyl ether	73	5.341	5.347	-0.006	94	252851	43.2	
58 1,2-Dichloroethane	62	5.365	5.365	0.0	78	104383	45.4	
59 n-Heptane	43	5.414	5.420	-0.006	92	143381	40.0	
136 2,4,4-Trimethyl-1-pentene	55	5.736	5.742	-0.006	0	104321	48.4	
60 n-Butanol	56	5.742	5.742	0.0	90	254023	0	
62 Trichloroethene	95	5.852	5.858	-0.006	90	91703	47.2	
135 2,4,4-Trimethyl-2-pentene	97	5.919	5.918	0.001	0	223308	47.9	
64 Methylcyclohexane	83	5.992	5.992	0.0	84	143305	41.3	
65 1,2-Dichloropropane	63	6.077	6.077	0.0	94	83113	46.5	
63 Methyl methacrylate	41	6.083	6.089	-0.006	94	128072	59.7	
66 1,4-Dioxane	88	6.180	6.186	-0.006	88	59426	1549.6	
67 Dibromomethane	93	6.211	6.211	0.0	87	51679	49.3	
68 Dichlorobromomethane	83	6.320	6.320	0.0	92	100638	46.4	
69 2-Chloroethyl vinyl ether	63	6.527	6.527	0.0	89	288073	232.8	
70 2-Nitropropane	43	6.527	6.533	-0.006	98	315531	429.7	
71 Epichlorohydrin	57	6.643	6.648	-0.005	98	262849	0	
72 cis-1,3-Dichloropropene	75	6.697	6.703	-0.006	82	136840	48.7	
73 4-Methyl-2-pentanone (MIBK)	43	6.801	6.801	0.0	94	479991	214.6	
74 Toluene	92	6.995	6.995	0.0	98	227765	44.3	
75 Ethyl methacrylate	69	7.214	7.214	0.0	88	114772	47.3	
77 trans-1,3-Dichloropropene	75	7.220	7.220	0.0	91	122779	48.0	
79 1,1,2-Trichloroethane	83	7.415	7.415	0.0	84	63824	46.8	
81 Tetrachloroethene	166	7.519	7.525	-0.006	90	112551	46.5	
82 1,3-Dichloropropane	76	7.585	7.585	0.0	91	129418	45.7	
80 2-Hexanone	43	7.592	7.592	0.0	94	358762	223.6	
83 Chlorodibromomethane	129	7.829	7.829	0.0	86	87524	45.6	
84 Ethylene Dibromide	107	7.963	7.963	0.0	96	89468	47.3	
86 4-Chlorobenzotrifluoride	180	8.309	8.303	0.006	91	165198	0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/kg	Flags
85 3-Chlorobenzotrifluoride	180	8.364	8.364	0.0	86	162740	0	
87 Chlorobenzene	112	8.413	8.413	0.0	95	274105	44.1	
88 Ethylbenzene	91	8.474	8.474	0.0	97	427138	45.8	
89 1,1,1,2-Tetrachloroethane	131	8.486	8.492	-0.006	87	94500	46.2	
90 m-Xylene & p-Xylene	106	8.589	8.589	0.0	100	359683	91.0	
91 o-Xylene	106	9.021	9.021	0.0	94	176464	45.9	
92 Styrene	104	9.046	9.045	0.001	95	297964	47.6	
93 2-Chlorobenzotrifluoride	180	9.295	9.295	0.0	96	165238	0	
95 Bromoform	173	9.325	9.319	0.006	97	59217	47.2	
94 Isopropylbenzene	105	9.386	9.386	0.0	94	441829	46.5	
96 Cyclohexanone	55	9.581	9.581	0.0	89	196770	0	
97 1,1,2,2-Tetrachloroethane	83	9.757	9.757	0.0	79	115469	49.8	
101 Bromobenzene	156	9.769	9.769	0.0	86	124330	45.6	
98 trans-1,4-Dichloro-2-butene	53	9.800	9.800	0.0	57	143890	246.6	
100 1,2,3-Trichloropropane	110	9.812	9.812	0.0	60	38069	48.3	
103 2-Chlorotoluene	126	9.928	9.928	0.0	98	120273	46.6	
102 1,3,5-Trimethylbenzene	105	9.958	9.964	-0.006	93	378247	47.2	
104 3-Chlorotoluene	126	9.989	9.988	0.0	85	142680	0	
99 N-Propylbenzene	91	10.031	10.031	0.0	52	334767	50.3	
105 4-Chlorotoluene	126	10.031	10.031	0.0	96	124111	46.7	
106 tert-Butylbenzene	134	10.281	10.280	0.001	87	92248	46.4	
107 1,2,4-Trimethylbenzene	105	10.329	10.329	0.0	92	381888	48.0	
108 Pentachloroethane	167	10.360	10.359	0.001	78	62234	0	
109 sec-Butylbenzene	105	10.481	10.481	0.0	92	487077	47.5	
110 4-Isopropyltoluene	119	10.603	10.603	0.0	96	456632	49.1	
111 1,3-Dichlorobenzene	146	10.639	10.645	-0.006	90	238399	45.9	
114 Dicyclopentadiene	66	10.719	10.718	0.001	96	414564	0	
113 1,4-Dichlorobenzene	146	10.725	10.725	0.0	84	238123	44.7	
112 1,2,3-Trimethylbenzene	105	10.731	10.731	0.001	97	407560	0	
115 n-Butylbenzene	91	10.974	10.974	0.0	93	363403	49.4	
116 1,2-Dichlorobenzene	146	11.065	11.065	0.0	98	228725	46.2	
117 1,2-Dibromo-3-Chloropropane	75	11.741	11.741	0.0	79	20963	53.4	
118 1,3,5-Trichlorobenzene	180	11.862	11.862	0.0	97	184665	0	
119 1,2,4-Trichlorobenzene	180	12.385	12.385	0.0	93	157622	51.7	
120 Hexachlorobutadiene	225	12.483	12.483	0.0	93	80522	50.2	
121 Naphthalene	128	12.623	12.623	0.0	96	433328	53.4	
122 1,2,3-Trichlorobenzene	180	12.842	12.842	0.0	95	140710	52.3	
S 125 1,2-Dichloroethene, Total	1				0		91.5	
S 126 1,3-Dichloropropene, Total	1				0		96.7	
S 124 Xylenes, Total	1				0		136.9	

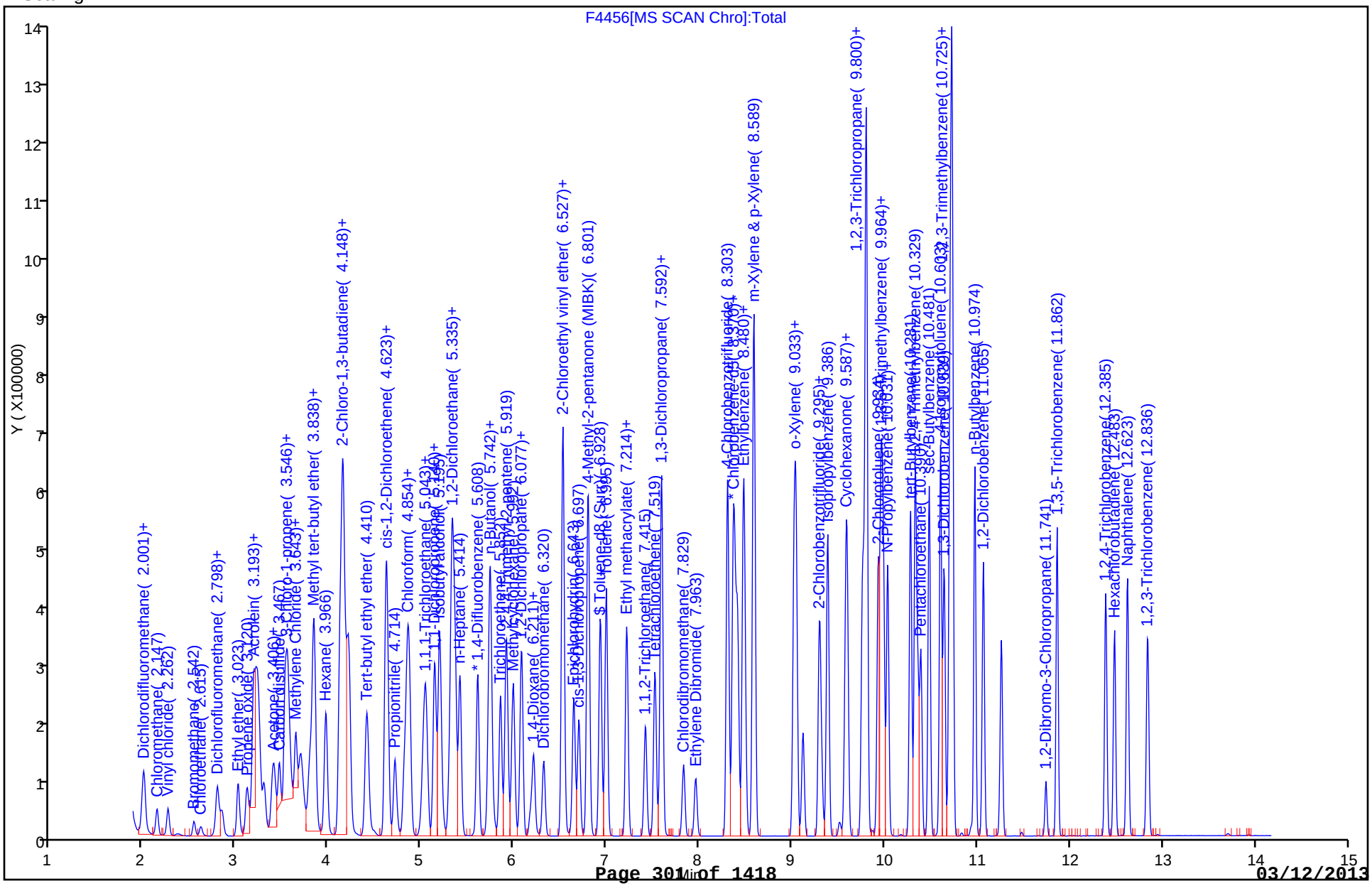
Report Date: 19-Dec-2012 16:00:45 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20121219-17691.b\F4456.D

Injection Date:	19-Dec-2012 15:21:30	Limit Group:	MV - 8260MCP_RCP
Client ID:		Instrument ID:	HP5973F
Lims Batch ID:	96559	Lims Sample ID:	6
Operator ID:	JMB	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

Y Scaling:



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Instrument ID: HP5973F Start Date: 12/11/2012 15:25

Analysis Batch Number: 95189 End Date: 12/11/2012 23:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-95189/2		12/11/2012 15:25	1	F4221.D	ZB-624 (60) 0.25(mm)
STD1 480-95189/3 IC		12/11/2012 15:52	1		ZB-624 (60) 0.25(mm)
STD2 480-95189/4 IC		12/11/2012 16:17	1		ZB-624 (60) 0.25(mm)
STD3 480-95189/5 IC		12/11/2012 16:43	1		ZB-624 (60) 0.25(mm)
STD4 480-95189/6 IC		12/11/2012 17:08	1		ZB-624 (60) 0.25(mm)
STD5 480-95189/7 ICIS		12/11/2012 17:34	1		ZB-624 (60) 0.25(mm)
STD6 480-95189/8 IC		12/11/2012 17:59	1		ZB-624 (60) 0.25(mm)
STD7 480-95189/9 IC		12/11/2012 18:24	1		ZB-624 (60) 0.25(mm)
STD8 480-95189/10 IC		12/11/2012 18:50	1	F4229.D	ZB-624 (60) 0.25(mm)
STD9 480-95189/11 IC		12/11/2012 19:15	1	F4230.D	ZB-624 (60) 0.25(mm)
STD11 480-95189/13 IC		12/11/2012 20:07	1	F4232.D	ZB-624 (60) 0.25(mm)
STD12 480-95189/14 IC		12/11/2012 20:32	1	F4233.D	ZB-624 (60) 0.25(mm)
STD13 480-95189/15 IC		12/11/2012 20:57	1	F4234.D	ZB-624 (60) 0.25(mm)
STD14 480-95189/16 IC		12/11/2012 21:23	1	F4235.D	ZB-624 (60) 0.25(mm)
MDLV 480-95189/18		12/11/2012 22:14	1		ZB-624 (60) 0.25(mm)
ICV 480-95189/19		12/11/2012 22:39	1		ZB-624 (60) 0.25(mm)
STD10 480-95189/20 IC		12/11/2012 23:36	1	F4239.D	ZB-624 (60) 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Instrument ID: HP5973F Start Date: 12/17/2012 11:45

Analysis Batch Number: 96157 End Date: 12/17/2012 16:05

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-96157/2		12/17/2012 11:45	1	F4389.D	ZB-624 (60) 0.25(mm)
STD1 480-96157/3 IC		12/17/2012 12:14	1	F4390.D	ZB-624 (60) 0.25(mm)
STD2 480-96157/4 IC		12/17/2012 12:40	1	F4391.D	ZB-624 (60) 0.25(mm)
STD3 480-96157/5 IC		12/17/2012 13:05	1	F4392.D	ZB-624 (60) 0.25(mm)
STD4 480-96157/6 IC		12/17/2012 13:31	1	F4393.D	ZB-624 (60) 0.25(mm)
STD5 480-96157/7 ICIS		12/17/2012 13:56	1	F4394.D	ZB-624 (60) 0.25(mm)
STD6 480-96157/8 IC		12/17/2012 14:22	1	F4395.D	ZB-624 (60) 0.25(mm)
STD7 480-96157/12 IC		12/17/2012 14:47	1	F4396.D	ZB-624 (60) 0.25(mm)
MDLV 480-96157/10		12/17/2012 15:39	1		ZB-624 (60) 0.25(mm)
ICV 480-96157/11		12/17/2012 16:05	1		ZB-624 (60) 0.25(mm)

8260C

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Instrument ID: HP5973F Start Date: 12/19/2012 11:00

Analysis Batch Number: 96559 End Date: 12/19/2012 19:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-96559/1		12/19/2012 11:00	1	F4451.D	ZB-624 (60) 0.25(mm)
CCVIS 480-96559/3		12/19/2012 11:53	1	F4453.D	ZB-624 (60) 0.25(mm)
CCV 480-96559/4		12/19/2012 12:42	1	F4454.D	ZB-624 (60) 0.25(mm)
LCS 480-96559/5		12/19/2012 14:56	1	F4455.D	ZB-624 (60) 0.25(mm)
LCSD 480-96559/6		12/19/2012 15:21	1	F4456.D	ZB-624 (60) 0.25(mm)
MB 480-96559/7		12/19/2012 15:47	1	F4457.D	ZB-624 (60) 0.25(mm)
ZZZZZ		12/19/2012 16:38	1		ZB-624 (60) 0.25(mm)
ZZZZZ		12/19/2012 17:03	1		ZB-624 (60) 0.25(mm)
ZZZZZ		12/19/2012 17:29	1		ZB-624 (60) 0.25(mm)
480-30406-1	OC-SD-SD-503-XXX	12/19/2012 17:54	1	F4461.D	ZB-624 (60) 0.25(mm)
480-30406-2	OC-SD-SD-504-XXX	12/19/2012 18:20	1	F4462.D	ZB-624 (60) 0.25(mm)
480-30406-3	OC-SD-SD-501-XXX	12/19/2012 18:46	1	F4463.D	ZB-624 (60) 0.25(mm)
480-30406-4	OC-SD-SD-502-XXX	12/19/2012 19:11	1	F4464.D	ZB-624 (60) 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Batch Number: 96598 Batch Start Date: 12/19/12 13:30 Batch Analyst: Byrnes, Jennifer M

Batch Method: 5035 Batch End Date: 12/19/12 22:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	InitialAmount	FinalAmount		
480-30406-I-1	OC-SD-SD-503-XXX	5035, 8260C	T	31.06 g	36.81 g	5.75 g	5 mL		
480-30406-H-2	OC-SD-SD-504-XXX	5035, 8260C	T	30.04 g	35.93 g	5.89 g	5 mL		
480-30406-I-3	OC-SD-SD-501-XXX	5035, 8260C	T	29.96 g	36.85 g	6.89 g	5 mL		
480-30406-I-4	OC-SD-SD-502-XXX	5035, 8260C	T	30.22 g	36.47 g	6.25 g	5 mL		

Batch Notes	

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.

8270_LL_MCP

Semivolatile Organic Compounds (GC/MS) Low Level

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	2FP	#	PHL	#	NBZ	#	FBP	#	TBP	#	TPH	#
OC-SD-SD-503-XXX	480-30406-1	0	X	0	X	0	X	0	X	0	X	0	X
OC-SD-SD-504-XXX	480-30406-2	0	X	0	X	0	X	0	X	0	X	59	
OC-SD-SD-501-XXX	480-30406-3	0	X	0	X	0	X	0	X	0	X	50	
OC-SD-SD-502-XXX	480-30406-4	0	X	0	X	0	X	0	X	0	X	66	
	MB 480-96561/1-A	81		77		103		96		90		92	
	LCS 480-96561/2-A	77		86		86		97		84		91	
	LCSD 480-96561/3-A	81		97		87		96		90		88	

	QC LIMITS
2FP = 2-Fluorophenol	30-130
PHL = Phenol-d5	30-130
NBZ = Nitrobenzene-d5	30-130
FBP = 2-Fluorobiphenyl	30-130
TBP = 2,4,6-Tribromophenol	30-130
TPH = p-Terphenyl-d14	30-130

Column to be used to flag recovery values

FORM II 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: X3203.D

Lab ID: LCS 480-96561/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,2,4-Trichlorobenzene	265	210	79	40-140	
1,2-Dichlorobenzene	265	204	77	40-140	
1,3-Dichlorobenzene	265	195	74	40-140	
Benzaldehyde	265	238	90		
1,4-Dichlorobenzene	265	208	78	40-140	
2,2'-oxybis[1-chloropropane]	265	194	73	40-140	
2,4,5-Trichlorophenol	265	247	93	30-130	
2,4,6-Trichlorophenol	265	255	96	30-130	
Benzyl alcohol	265	176	66		
2,4-Dichlorophenol	265	228	86	30-130	
2,4-Dimethylphenol	265	240	91	30-130	
2,4-Dinitrophenol	265	251	95	30-130	
2,4-Dinitrotoluene	265	236	89	40-140	
4-Nitroaniline	265	171	65		
2,6-Dinitrotoluene	265	123	46	40-140	
2-Chloronaphthalene	265	219	83	40-140	
2-Chlorophenol	265	236	89	30-130	
N-Nitrosodiphenylamine	265	144	54		
2-Methylnaphthalene	265	203	77	40-140	
2-Methylphenol	265	261	98	30-130	
2-Nitrophenol	265	233	88	30-130	
3,3'-Dichlorobenzidine	265	225	85	40-140	
2-Nitroaniline	265	254	96		
4-Bromophenyl phenyl ether	265	266	100	40-140	
Hexachlorocyclopentadiene	265	192	72		
4-Chloroaniline	254	190	75	40-140	
4-Nitrophenol	265	240	90	30-130	
Acenaphthene	265	215	81	40-140	
4,6-Dinitro-2-methylphenol	265	189	71		
1,2,4,5-Tetrachlorobenzene	530	561	106		
Acenaphthylene	265	246	93	40-140	
Acetophenone	530	502	95	40-140	
Aniline	291	225	77	40-140	
Anthracene	265	254	96	40-140	
Atrazine	265	218	82	40-140	
Azobenzene	265	710	268	40-140	E *
Benzo[a]anthracene	265	277	105	40-140	
Benzo[a]pyrene	265	235	89	40-140	
Benzo[b]fluoranthene	265	248	94	40-140	
Benzo[g,h,i]perylene	265	160	60	40-140	
Caprolactam	265	232	87		
3-Nitroaniline	260	175	67		

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: X3203.D

Lab ID: LCS 480-96561/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Benzo[k]fluoranthene	265	298	112	40-140	
Bis(2-chloroethoxy)methane	265	235	89	40-140	
1,1'-Biphenyl	265	273	103		
Bis(2-chloroethyl)ether	265	219	83	40-140	
Bis(2-ethylhexyl) phthalate	265	231	87	40-140	
Butyl benzyl phthalate	265	224	84	40-140	
Chrysene	265	236	89	40-140	
N-Nitrosodi-n-propylamine	265	239	90		
Benzoic acid	265	337	127		
Dibenz(a,h)anthracene	265	168	63	40-140	
Dibenzofuran	265	253	95	40-140	
Diethyl phthalate	265	240	90	40-140	
Dimethyl phthalate	265	239	90	40-140	
Di-n-butyl phthalate	265	273	103	40-140	
Di-n-octyl phthalate	265	285	108	40-140	
Phenyl ether	265	326	123		
2,3,4,6-Tetrachlorophenol	530	493	93		
Fluoranthene	265	209	79	40-140	
4-Chloro-3-methylphenol	265	241	91		
Fluorene	265	226	85	40-140	
4-Chlorophenyl phenyl ether	265	238	90		
Hexachlorobenzene	265	257	97	40-140	
Hexachlorobutadiene	265	203	77	40-140	
Hexachloroethane	265	210	79	40-140	
Indeno[1,2,3-cd]pyrene	265	158	60	40-140	
Isophorone	265	226	85	40-140	
Naphthalene	265	212	80	40-140	
Nitrobenzene	265	233	88	40-140	
Pentachlorophenol	265	233	88	30-130	
Phenanthrene	265	253	95	40-140	
Benzophenone	265	294	111		
Phenol	265	234	88	30-130	
Pyrene	265	220	83	40-140	
N-Nitrosodimethylamine	265	189	71		
Carbazole	265	219	83		
1-Methylnaphthalene	530	503	95		
4-Methylphenol	530	527	99		

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: X3204.D

Lab ID: LCSD 480-96561/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,2,4-Trichlorobenzene	265	223	84	6	30	40-140	
1,2-Dichlorobenzene	265	212	80	4	30	40-140	
1,3-Dichlorobenzene	265	204	77	4	30	40-140	
Benzaldehyde	265	252	95	6			
1,4-Dichlorobenzene	265	207	78	0	30	40-140	
2,2'-oxybis[1-chloropropane]	265	209	79	7	30	40-140	
2,4,5-Trichlorophenol	265	254	96	3	30	30-130	
2,4,6-Trichlorophenol	265	273	103	7	30	30-130	
Benzyl alcohol	265	143	54	21			
2,4-Dichlorophenol	265	246	93	8	30	30-130	
2,4-Dimethylphenol	265	249	94	3	30	30-130	
2,4-Dinitrophenol	265	116	44	74	30	30-130	*
2,4-Dinitrotoluene	265	242	91	3	30	40-140	
4-Nitroaniline	265	184	69	7			
2,6-Dinitrotoluene	265	128	48	4	30	40-140	
2-Chloronaphthalene	265	227	86	3	30	40-140	
2-Chlorophenol	265	243	92	3	30	30-130	
N-Nitrosodiphenylamine	265	145	55	1			
2-Methylnaphthalene	265	219	82	7	30	40-140	
2-Methylphenol	265	239	90	9	30	30-130	
2-Nitrophenol	265	239	90	3	30	30-130	
3,3'-Dichlorobenzidine	265	242	91	7	30	40-140	
2-Nitroaniline	265	277	105	9			
4-Bromophenyl phenyl ether	265	277	105	4	30	40-140	
Hexachlorocyclopentadiene	265	201	76	5			
4-Chloroaniline	254	208	82	9	30	40-140	
4-Nitrophenol	265	36.2 J	14	147	30	30-130	*
Acenaphthene	265	225	85	4	30	40-140	
4,6-Dinitro-2-methylphenol	265	221	83	15			
1,2,4,5-Tetrachlorobenzene	530	604	114	7			
Acenaphthylene	265	254	96	3	30	40-140	
Acetophenone	530	540	102	7	30	40-140	
Aniline	291	237	81	5	30	40-140	
Anthracene	265	259	98	2	30	40-140	
Atrazine	265	265	100	20	30	40-140	
Azobenzene	265	684	258	4	30	40-140	* E
Benzo[a]anthracene	265	278	105	0	30	40-140	
Benzo[a]pyrene	265	248	93	5	30	40-140	
Benzo[b]fluoranthene	265	267	101	7	30	40-140	
Benzo[g,h,i]perylene	265	154	58	4	30	40-140	
Caprolactam	265	309	117	29			
3-Nitroaniline	260	235	90	29			

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: X3204.D

Lab ID: LCSD 480-96561/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Benzo[k]fluoranthene	265	302	114	2	30	40-140	
Bis(2-chloroethoxy)methane	265	235	89	0	30	40-140	
1,1'-Biphenyl	265	291	110	6			
Bis(2-chloroethyl)ether	265	225	85	3	30	40-140	
Bis(2-ethylhexyl) phthalate	265	254	96	9	30	40-140	
Butyl benzyl phthalate	265	243	92	8	30	40-140	
Chrysene	265	261	98	10	30	40-140	
N-Nitrosodi-n-propylamine	265	237	90	1			
Benzoic acid	265	376	142	11			
Dibenz(a,h)anthracene	265	172	65	3	30	40-140	
Dibenzofuran	265	256	97	1	30	40-140	
Diethyl phthalate	265	253	95	5	30	40-140	
Dimethyl phthalate	265	256	96	7	30	40-140	
Di-n-butyl phthalate	265	277	105	1	30	40-140	
Di-n-octyl phthalate	265	298	113	4	30	40-140	
Phenyl ether	265	287	108	13			
2,3,4,6-Tetrachlorophenol	530	585	110	17			
Fluoranthene	265	205	77	2	30	40-140	
4-Chloro-3-methylphenol	265	275	104	13			
Fluorene	265	236	89	4	30	40-140	
4-Chlorophenyl phenyl ether	265	239	90	0			
Hexachlorobenzene	265	254	96	1	30	40-140	
Hexachlorobutadiene	265	218	82	7	30	40-140	
Hexachloroethane	265	216	81	3	30	40-140	
Indeno[1,2,3-cd]pyrene	265	162	61	2	30	40-140	
Isophorone	265	242	91	7	30	40-140	
Naphthalene	265	218	82	3	30	40-140	
Nitrobenzene	265	232	88	0	30	40-140	
Pentachlorophenol	265	260	98	11	30	30-130	
Phenanthrene	265	255	96	1	30	40-140	
Benzophenone	265	283	107	4			
Phenol	265	250	94	7	30	30-130	
Pyrene	265	239	90	9	30	40-140	
N-Nitrosodimethylamine	265	194	73	3			
Carbazole	265	226	85	3			
1-Methylnaphthalene	530	486	92	3			
4-Methylphenol	530	515	97	2			

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Lab File ID: X3202.D Lab Sample ID: MB 480-96561/1-A

Matrix: Solid Date Extracted: 12/19/2012 09:30

Instrument ID: HP5973X Date Analyzed: 12/20/2012 15:17

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-96561/2-A	X3203.D	12/20/2012 15:42
	LCSD 480-96561/3-A	X3204.D	12/20/2012 16:08
OC-SD-SD-503-XXX	480-30406-1	X3227.D	12/21/2012 12:20
OC-SD-SD-504-XXX	480-30406-2	X3228.D	12/21/2012 12:45
OC-SD-SD-501-XXX	480-30406-3	X3229.D	12/21/2012 13:11
OC-SD-SD-502-XXX	480-30406-4	X3230.D	12/21/2012 13:37

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

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Lab File ID: X3130.D DFTPP Injection Date: 12/18/2012

Instrument ID: HP5973X DFTPP Injection Time: 11:04

Analysis Batch No.: 96347

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	53.8	
68	Less than 2.0 % of mass 69	0.1	(0.3)1
69	Mass 69 relative abundance	47.5	
70	Less than 2.0 % of mass 69	0.1	(0.2)1
127	40.0 - 60.0 % of mass 198	56.6	
197	Less than 1.0 % of mass 198	0.0	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	6.8	
275	10.0 - 30.0 % of mass 198	28.3	
365	Greater than 1.0 % of mass 198	4.0	
441	Present but less than mass 443	15.2	(72.5)3
442	Greater than 40.0 % of mass 198	103.4	
443	17.0 - 23.0 % of mass 442	21.0	(20.3)2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-96347/2	X3131.D	12/18/2012	11:20
	IC 480-96347/3	X3132.D	12/18/2012	11:45
	IC 480-96347/4	X3133.D	12/18/2012	12:11
	IC 480-96347/5	X3134.D	12/18/2012	12:36
	ICIS 480-96347/6	X3135.D	12/18/2012	13:01
	IC 480-96347/7	X3136.D	12/18/2012	13:27
	IC 480-96347/8	X3137.D	12/18/2012	13:52
	IC 480-96347/9	X3138.D	12/18/2012	14:18
	IC 480-96347/10	X3139.D	12/18/2012	14:44

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

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Lab File ID: X3190.D DFTPP Injection Date: 12/20/2012

Instrument ID: HP5973X DFTPP Injection Time: 10:20

Analysis Batch No.: 96803

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	55.7	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	48.4	
70	Less than 2.0 % of mass 69	0.3	(0.7)1
127	40.0 - 60.0 % of mass 198	59.5	
197	Less than 1.0 % of mass 198	0.0	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	6.9	
275	10.0 - 30.0 % of mass 198	26.5	
365	Greater than 1.0 % of mass 198	3.8	
441	Present but less than mass 443	13.9	(72.0)3
442	Greater than 40.0 % of mass 198	98.0	
443	17.0 - 23.0 % of mass 442	19.3	(19.6)2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-96803/2	X3191.D	12/20/2012	10:36
	MB 480-96561/1-A	X3202.D	12/20/2012	15:17
	LCS 480-96561/2-A	X3203.D	12/20/2012	15:42
	LCSD 480-96561/3-A	X3204.D	12/20/2012	16:08

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

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Lab File ID: X3221.D DFTPP Injection Date: 12/21/2012

Instrument ID: HP5973X DFTPP Injection Time: 09:57

Analysis Batch No.: 97046

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	54.1	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	45.2	
70	Less than 2.0 % of mass 69	0.3	(0.6)1
127	40.0 - 60.0 % of mass 198	56.7	
197	Less than 1.0 % of mass 198	0.0	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	7.0	
275	10.0 - 30.0 % of mass 198	28.5	
365	Greater than 1.0 % of mass 198	4.1	
441	Present but less than mass 443	14.2	(70.7)3
442	Greater than 40.0 % of mass 198	102.6	
443	17.0 - 23.0 % of mass 442	20.0	(19.5)2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-97046/2	X3222.D	12/21/2012	10:13
OC-SD-SD-503-XXX	480-30406-1	X3227.D	12/21/2012	12:20
OC-SD-SD-504-XXX	480-30406-2	X3228.D	12/21/2012	12:45
OC-SD-SD-501-XXX	480-30406-3	X3229.D	12/21/2012	13:11
OC-SD-SD-502-XXX	480-30406-4	X3230.D	12/21/2012	13:37

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

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Sample No.: CCVIS 480-96803/2 Date Analyzed: 12/20/2012 10:36

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): X3191.D Heated Purge: (Y/N) N

Calibration ID: 11641

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		245891	6.57	916601	8.44	598337	11.06
UPPER LIMIT		491782	7.07	1833202	8.94	1196674	11.56
LOWER LIMIT		122946	6.07	458301	7.94	299169	10.56
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-96561/1-A		175457	6.56	633704	8.45	352883	11.10
LCS 480-96561/2-A		208342	6.55	783539	8.45	465037	11.09
LCSD 480-96561/3-A		198182	6.56	746613	8.45	459413	11.09

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-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

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

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Sample No.: CCVIS 480-96803/2 Date Analyzed: 12/20/2012 10:36

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): X3191.D Heated Purge: (Y/N) N

Calibration ID: 11641

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1001444	13.08	792610	15.73	796790	17.01
UPPER LIMIT		2002888	13.58	1585220	16.23	1593580	17.51
LOWER LIMIT		500722	12.58	396305	15.23	398395	16.51
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-96561/1-A		503443	13.11	437519	15.75	487766	17.04
LCS 480-96561/2-A		656111	13.11	505522	15.75	573004	17.03
LCSD 480-96561/3-A		686463	13.10	479631	15.75	553861	17.03

PHN = Phenanthrene-d10
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

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

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Sample No.: CCVIS 480-97046/2 Date Analyzed: 12/21/2012 10:13

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): X3222.D Heated Purge: (Y/N) N

Calibration ID: 11641

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		198819	6.60	779062	8.49	510619	11.11
UPPER LIMIT		397638	7.10	1558124	8.99	1021238	11.61
LOWER LIMIT		99410	6.10	389531	7.99	255310	10.61
LAB SAMPLE ID	CLIENT SAMPLE ID						
480-30406-1	OC-SD-SD-503-XXX	141183	6.58	516839	8.47	328307	11.12
480-30406-2	OC-SD-SD-504-XXX	118267	6.58	413773	8.47	257002	11.13
480-30406-3	OC-SD-SD-501-XXX	142880	6.55	598492	8.46	352142	11.11
480-30406-4	OC-SD-SD-502-XXX	118652	6.51	485381	8.45	316744	11.11

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-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

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

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Sample No.: CCVIS 480-97046/2 Date Analyzed: 12/21/2012 10:13

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): X3222.D Heated Purge: (Y/N) N

Calibration ID: 11641

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		898941	13.11	702599	15.77	707467	17.06
UPPER LIMIT		1797882	13.61	1405198	16.27	1414934	17.56
LOWER LIMIT		449471	12.61	351300	15.27	353734	16.56
LAB SAMPLE ID	CLIENT SAMPLE ID						
480-30406-1	OC-SD-SD-503-XXX	557262	13.12	461072	15.76	501762	17.05
480-30406-2	OC-SD-SD-504-XXX	461109	13.13	392020	15.77	406347	17.06
480-30406-3	OC-SD-SD-501-XXX	598673	13.12	521561	15.77	541623	17.06
480-30406-4	OC-SD-SD-502-XXX	532714	13.13	424573	15.77	436303	17.05

PHN = Phenanthrene-d10
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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-30406-1

SDG No.:

Client Sample ID: OC-SD-SD-503-XXX | Lab Sample ID: 480-30406-1

Matrix: Solid | Lab File ID: X3227.D

Analysis Method: 8270D | Date Collected: 12/17/2012 14:30

Extract. Method: 3546 | Date Extracted: 12/19/2012 09:46

Sample wt/vol: 000030.1(g) | Date Analyzed: 12/21/2012 12:20

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

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

% Moisture: 36.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 97046 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	ND		520	160
95-50-1	1,2-Dichlorobenzene	ND		520	160
541-73-1	1,3-Dichlorobenzene	ND		520	160
100-52-7	Benzaldehyde	1300		520	160
106-46-7	1,4-Dichlorobenzene	ND		520	160
108-60-1	2,2'-oxybis[1-chloropropane]	ND		520	160
95-95-4	2,4,5-Trichlorophenol	ND		520	170
88-06-2	2,4,6-Trichlorophenol	ND		520	220
100-51-6	Benzyl alcohol	ND		1000	160
120-83-2	2,4-Dichlorophenol	ND		520	160
105-67-9	2,4-Dimethylphenol	ND		520	160
51-28-5	2,4-Dinitrophenol	ND	*	520	420
121-14-2	2,4-Dinitrotoluene	ND		520	160
100-01-6	4-Nitroaniline	ND		2600	440
606-20-2	2,6-Dinitrotoluene	ND		520	440
91-58-7	2-Chloronaphthalene	ND		520	160
95-57-8	2-Chlorophenol	ND		520	160
86-30-6	N-Nitrosodiphenylamine	330	J	520	160
91-57-6	2-Methylnaphthalene	ND		520	160
95-48-7	2-Methylphenol	ND		520	160
88-75-5	2-Nitrophenol	ND		520	200
15831-10-4	3 & 4 Methylphenol	4000		520	160
91-94-1	3,3'-Dichlorobenzidine	ND		1000	190
88-74-4	2-Nitroaniline	ND		2600	650
77-47-4	Hexachlorocyclopentadiene	ND		1000	160
106-47-8	4-Chloroaniline	ND		1000	470
100-02-7	4-Nitrophenol	ND	*	2600	220
83-32-9	Acenaphthene	ND		520	160
534-52-1	4,6-Dinitro-2-methylphenol	ND		2600	500
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		520	160
208-96-8	Acenaphthylene	ND		520	160
98-86-2	Acetophenone	160	J	520	160
62-53-3	Aniline	ND		520	160
120-12-7	Anthracene	ND		520	160

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-30406-1

SDG No.:

Client Sample ID: OC-SD-SD-503-XXX | Lab Sample ID: 480-30406-1

Matrix: Solid | Lab File ID: X3227.D

Analysis Method: 8270D | Date Collected: 12/17/2012 14:30

Extract. Method: 3546 | Date Extracted: 12/19/2012 09:46

Sample wt/vol: 000030.1(g) | Date Analyzed: 12/21/2012 12:20

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

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

% Moisture: 36.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 97046 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1912-24-9	Atrazine	ND		520	160
103-33-3	Azobenzene	ND	*	520	160
56-55-3	Benzo[a]anthracene	ND		520	160
50-32-8	Benzo[a]pyrene	ND		520	160
205-99-2	Benzo[b]fluoranthene	ND		520	160
191-24-2	Benzo[g,h,i]perylene	ND		520	160
105-60-2	Caprolactam	ND		520	160
99-09-2	3-Nitroaniline	ND		2600	160
207-08-9	Benzo[k]fluoranthene	ND		520	270
111-91-1	Bis(2-chloroethoxy)methane	ND		520	160
92-52-4	1,1'-Biphenyl	ND		520	160
111-44-4	Bis(2-chloroethyl)ether	ND		520	160
117-81-7	Bis(2-ethylhexyl) phthalate	3100		2600	1000
85-68-7	Butyl benzyl phthalate	ND		520	160
218-01-9	Chrysene	ND		520	160
621-64-7	N-Nitrosodi-n-propylamine	ND		520	160
65-85-0	Benzoic acid	ND		2600	230
53-70-3	Dibenz(a,h)anthracene	ND		520	160
132-64-9	Dibenzofuran	ND		520	160
84-66-2	Diethyl phthalate	ND		520	170
131-11-3	Dimethyl phthalate	ND		520	160
84-74-2	Di-n-butyl phthalate	ND		2600	780
117-84-0	Di-n-octyl phthalate	ND		520	160
101-84-8	Phenyl ether	ND		520	160
58-90-2	2,3,4,6-Tetrachlorophenol	ND		520	160
206-44-0	Fluoranthene	ND		520	160
59-50-7	4-Chloro-3-methylphenol	ND		1000	160
86-73-7	Fluorene	ND		520	160
7005-72-3	4-Chlorophenyl phenyl ether	ND		520	160
118-74-1	Hexachlorobenzene	ND		520	160
87-68-3	Hexachlorobutadiene	ND		520	160
67-72-1	Hexachloroethane	ND		520	160
193-39-5	Indeno[1,2,3-cd]pyrene	ND		520	160
78-59-1	Isophorone	ND		520	160

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-30406-1

SDG No.:

Client Sample ID: OC-SD-SD-503-XXX | Lab Sample ID: 480-30406-1

Matrix: Solid | Lab File ID: X3227.D

Analysis Method: 8270D | Date Collected: 12/17/2012 14:30

Extract. Method: 3546 | Date Extracted: 12/19/2012 09:46

Sample wt/vol: 000030.1(g) | Date Analyzed: 12/21/2012 12:20

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

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

% Moisture: 36.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 97046 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-20-3	Naphthalene	ND		520	160
98-95-3	Nitrobenzene	ND		520	160
87-86-5	Pentachlorophenol	ND		520	160
85-01-8	Phenanthrene	ND		520	160
119-61-9	Benzophenone	ND		520	160
108-95-2	Phenol	1900		520	160
129-00-0	Pyrene	ND		520	160
62-75-9	N-Nitrosodimethylamine	ND		520	160
86-74-8	Carbazole	ND		520	160
90-12-0	1-Methylnaphthalene	ND		520	160
106-44-5	4-Methylphenol	4000		520	160

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	0	X	30-130
367-12-4	2-Fluorophenol	0	X	30-130
4165-60-0	Nitrobenzene-d5	0	X	30-130
4165-62-2	Phenol-d5	0	X	30-130
321-60-8	2-Fluorobiphenyl	0	X	30-130
1718-51-0	p-Terphenyl-d14	0	X	30-130

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo | Job No.: 480-30406-1

SDG No.:

Client Sample ID: OC-SD-SD-503-XXX | Lab Sample ID: 480-30406-1

Matrix: Solid | Lab File ID: X3227.D

Analysis Method: 8270D | Date Collected: 12/17/2012 14:30

Extract. Method: 3546 | Date Extracted: 12/19/2012 09:46

Sample wt/vol: 000030.1(g) | Date Analyzed: 12/21/2012 12:20

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

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

% Moisture: 36.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 97046 | Units: ug/Kg

Number TICs Found: 10 | TIC Result Total: 49660

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown	4.18	6200	T J
108-38-3	Benzene, 1,3-dimethyl-	4.66	1500	T J N
	Unknown	12.93	1300	T J
	Unknown	13.78	1100	T J
483-65-8	Phenanthrene, 1-methyl-7-(1-methylethyl)	14.91	1900	T J N
	Unknown	15.07	3100	T J
	Unknown	15.19	1700	T J
18956-15-5	2-Propen-1-one, 1-(2,6-dihydroxy-4-metho	15.48	1100	T J N
	Unknown	16.07	760	T J
26603-23-6	p,p'-Dioctyldiphenylamine	17.01	31000	T J N

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3227.D		
Lims ID:	480-30406-D-1-A	Client ID:	OC-SD-SD-503-XXX
Inject. Date:	21-Dec-2012 12:20:30	Dil. Factor:	10.0000
Sample Type:	Client		
Sample ID:	480-0017772-007		
Misc. Info.:			
Operator:	ANM	Instrument ID:	HP5973X
Injection Vol:	1.0 ul	ALS Bottle#:	8
Lims Batch ID:	97046	Lims Sample ID:	7
Detector:	MS SCAN		

Method:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X-8270LL.m		
Last Update:	01-Mar-2013 16:46:14	Calib Date:	18-Dec-2012 14:44:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3139.D		
Limit Group:	MB - 8270RCP_MCP ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm
Process Host:	XAWRK018		

First Level Reviewer: mckernar Date: 21-Dec-2012 12:44:15

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.575	6.599	-0.024	84	141183	5.00	
* 2 Naphthalene-d8	136	8.467	8.491	-0.024	96	516839	5.00	
* 3 Acenaphthene-d10	164	11.116	11.107	0.009	83	328307	5.00	
* 4 Phenanthrene-d10	188	13.123	13.114	0.009	95	557262	5.00	
* 5 Chrysene-d12	240	15.763	15.767	-0.005	94	461072	5.00	
* 6 Perylene-d12	264	17.047	17.056	-0.010	96	501762	5.00	
$ 7 2-Fluorophenol	112		4.677					9
$ 8 Phenol-d5	99		6.109					
$ 9 Nitrobenzene-d5	82		7.431					
$ 10 2-Fluorobiphenyl	172		10.122					
$ 11 2,4,6-Tribromophenol	330		12.262					9
$ 12 p-Terphenyl-d14	244		14.792					
19 N-Nitrosodimethylamine	42		2.785					14
21 Benzaldehyde	77	5.937	5.952	-0.015	88	69998	2.53	
23 Aniline	93		6.118					
22 Phenol	94	6.118	6.128	-0.010	50	160529	3.73	
24 Bis(2-chloroethyl)ether	93		6.223					
25 2-Chlorophenol	128		6.289					19
26 1,3-Dichlorobenzene	146		6.508					
27 1,4-Dichlorobenzene	146		6.622					9
28 Benzyl alcohol	108		6.841					
29 1,2-Dichlorobenzene	146		6.841					9
31 2-Methylphenol	108		7.027					
32 2,2'-oxybis[1-chloropropane]	45		7.036					
35 DFTPP								
33 Acetophenone	105	7.198	7.217	-0.019	47	15631	0.2985	
34 N-Nitrosodi-n-propylamine	70		7.222					14
36 4-Methylphenol	108	7.245	7.274	-0.029	79	240973	7.75	
37 Hexachloroethane	117		7.336					19
38 Nitrobenzene	77		7.464					9

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
40 Isophorone	82		7.826					
41 2-Nitrophenol	139		7.940					
43 2,4-Dimethylphenol	107		8.054					9
45 Bis(2-chloroethoxy)methane	93		8.173					14
44 Benzoic acid	105		8.235					
47 2,4-Dichlorophenol	162		8.325					
48 1,2,4-Trichlorobenzene	180		8.410					
49 Naphthalene	128		8.520					9
51 4-Chloroaniline	127		8.648					
52 Hexachlorobutadiene	225		8.715					
54 Caprolactam	113		9.186					
55 4-Chloro-3-methylphenol	107		9.438					19
56 2-Methylnaphthalene	142		9.561					
57 1-Methylnaphthalene	142		9.704					
58 Hexachlorocyclopentadiene	237		9.794					9
59 1,2,4,5-Tetrachlorobenzene	216		9.813					
60 2,4,6-Trichlorophenol	196		10.018					19
61 2,4,5-Trichlorophenol	196		10.108					
62 1,1'-Biphenyl	154	10.289	10.265	0.024	36	4465	0.0470	
63 2-Chloronaphthalene	162		10.313					
64 Phenyl ether	170		10.427					
65 2-Nitroaniline	65		10.484					
67 Dimethyl phthalate	163		10.764					
68 2,6-Dinitrotoluene	165		10.850					
69 Acenaphthylene	152		10.898					
70 3-Nitroaniline	138		11.116					
71 Acenaphthene	153		11.154					
72 2,4-Dinitrophenol	184		11.288					
73 Dibenzofuran	168		11.421					149
74 2,4-Dinitrotoluene	165		11.459					
75 4-Nitrophenol	109		11.492					
76 2,3,4,6-Tetrachlorophenol	232		11.640					
78 Diethyl phthalate	149		11.811					
79 Fluorene	166		11.920					
80 4-Chlorophenyl phenyl ether	204		11.939					
81 4-Nitroaniline	138		12.025					
82 4,6-Dinitro-2-methylphenol	198		12.048					
83 N-Nitrosodiphenylamine	169	12.129	12.115	0.014	94	81864	0.6317	
85 Azobenzene	77		12.153					
86 Benzophenone	105		12.177					
89 4-Bromophenyl phenyl ether	248		12.581					
91 Hexachlorobenzene	284		12.643					
93 Atrazine	200		12.833					9
94 Pentachlorophenol	266		12.914					
97 Phenanthrene	178	13.152	13.142	0.010	11	12081	0.0973	
98 Anthracene	178		13.204					
99 Carbazole	167		13.413					
102 Di-n-butyl phthalate	149		13.799					9
104 Fluoranthene	202	14.431	14.422	0.009	45	17264	0.1404	
106 Pyrene	202	14.659	14.645	0.014	78	13649	0.1105	
108 Butyl benzyl phthalate	149		15.244					
110 Bis(2-ethylhexyl) phthalate	149	15.734	15.739	-0.005	95	562897	5.99	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
109 3,3'-Dichlorobenzidine	252		15.739					
111 Benzo[a]anthracene	228		15.753					
112 Chrysene	228		15.791					
113 Di-n-octyl phthalate	149		16.281					
114 Benzo[b]fluoranthene	252		16.695					
115 Benzo[k]fluoranthene	252		16.718					
116 Benzo[a]pyrene	252		17.004					
117 Indeno[1,2,3-cd]pyrene	276		18.155					
118 Dibenz(a,h)anthracene	278		18.155					9
119 Benzo[g,h,i]perylene	276		18.473					
S 120 3 & 4 Methylphenol	108		0.000					

QC Flag Legend

Processing Flags
1 - Missing Peaks
4 - Failed Signal Ratio Test
9 - Failed A Reference Spectral Test

TestAmerica Buffalo
Tentatively Identified Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3227.D		
Lims ID:	480-30406-D-1-A	Client ID:	OC-SD-SD-503-XXX
Inject. Date:	21-Dec-2012 12:20:30	Dil. Factor:	10.0000
Sample Type:	Client		
Sample ID:	480-0017772-007		
Misc. Info.:			
Operator:	ANM	Instrument ID:	HP5973X
Injection Vol:	1.0 ul	ALS Bottle#:	8
Lims Batch ID:	97046	Lims Sample ID:	7
Detector:	MS SCAN		
Method:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X-8270LL.m		
Last Update:	01-Mar-2013 16:46:14	Calib Date:	18-Dec-2012 14:44:30
Tic RT Window:	1.500 -0.000	Response:	area
Quant By:	Nearest ISTD	Quant LOD:	10.00000
MS Library:	\\Bufchrom\ChromData\Database\NIST98.L		
Min. Match:	85		
Process Host:	XAWRK018		
First Level Reviewer: mckernar		Date:	21-Dec-2012 12:44:15

Tentative Identified Compound Results

RT	Response	Amount ng/uL	Quant Cpnd	Qual	Lib Entry	Flags
		Unknown				
4.178	2275199	11.9	1			
108-38-3		Benzene, 1,3-dimethyl-				
4.658	538204	2.81	1	97	117396	
		Unknown				
12.933	807814	2.58	4			
		Unknown				
13.779	659166	2.11	4			
483-65-8		Phenanthrene, 1-methyl-7-(1-methylethyl)				
14.911	1187298	3.70	5	93	127255	
		Unknown				
15.068	1922137	6.00	5			
		Unknown				
15.192	1025171	3.20	5			
18956-15-5		2-Propen-1-one, 1-(2,6-dihydroxy-4-metho				
15.482	709300	2.21	5	90	81439	
		Unknown				
16.072	469664	1.46	5			
26603-23-6		p,p'-Dioctyldiphenylamine				
17.008	16663805	58.9	6	96	101420	

Quantitation Compounds

Compound	RT	Response	Amount ng/uL

Report Date: 01-Mar-2013 16:46:15 Chrom Revision: 2.0 01-Feb-2013 10:03:10
Data File: \\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3227.D

Compound	RT	Response	Amount ng/uL
* 1 1,4-Dichlorobenzene-d4	6.570	956086	5.00
* 4 Phenanthrene-d10	13.123	1563649	5.00
* 5 Chrysene-d12	15.763	1603039	5.00
* 6 Perylene-d12	17.047	1413949	5.00

QC Flag Legend

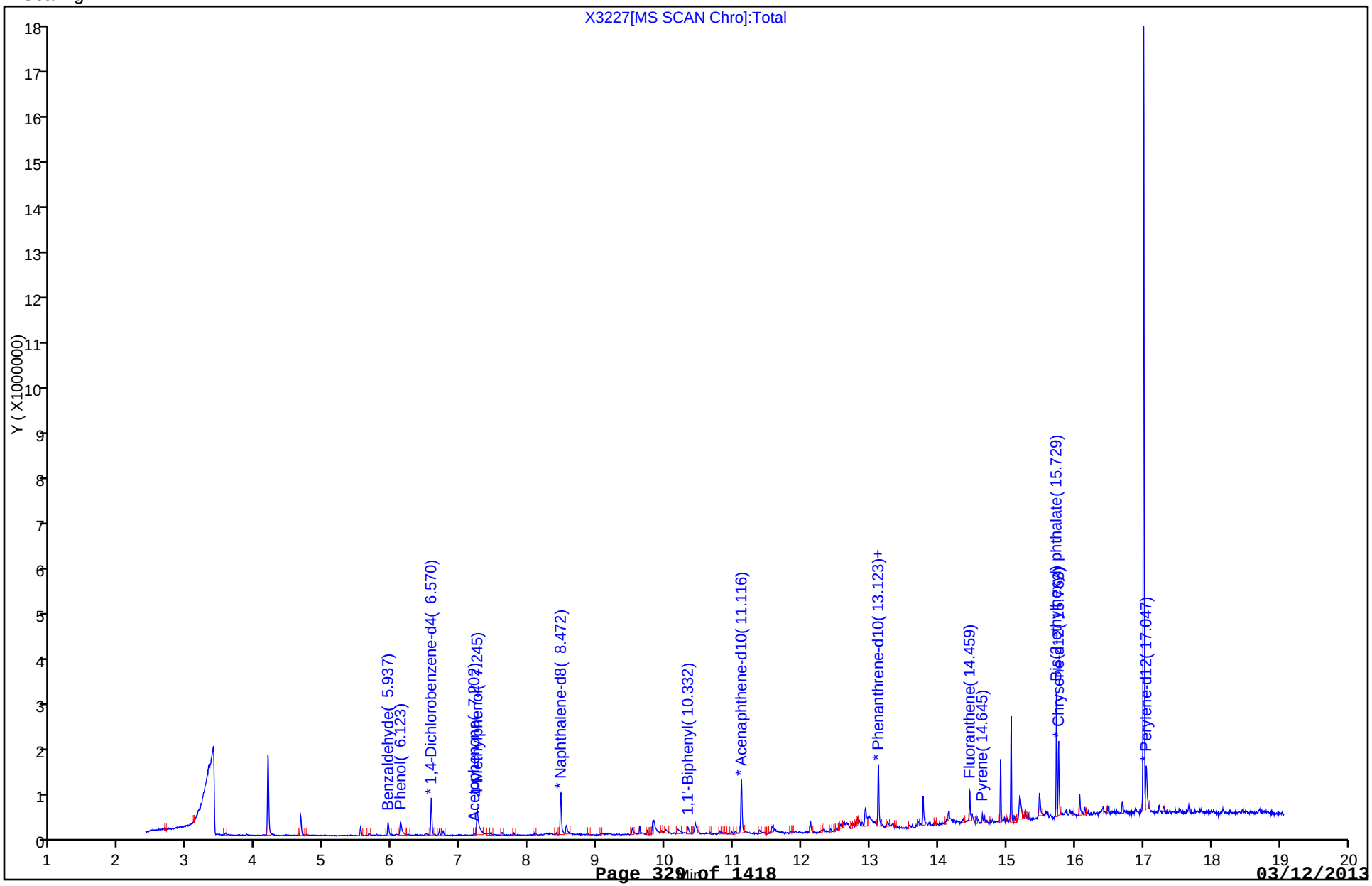
Processing Flags

Report Date: 01-Mar-2013 16:46:15 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3227.D		
Injection Date:	21-Dec-2012 12:20:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-503-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	7
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Y Scaling:

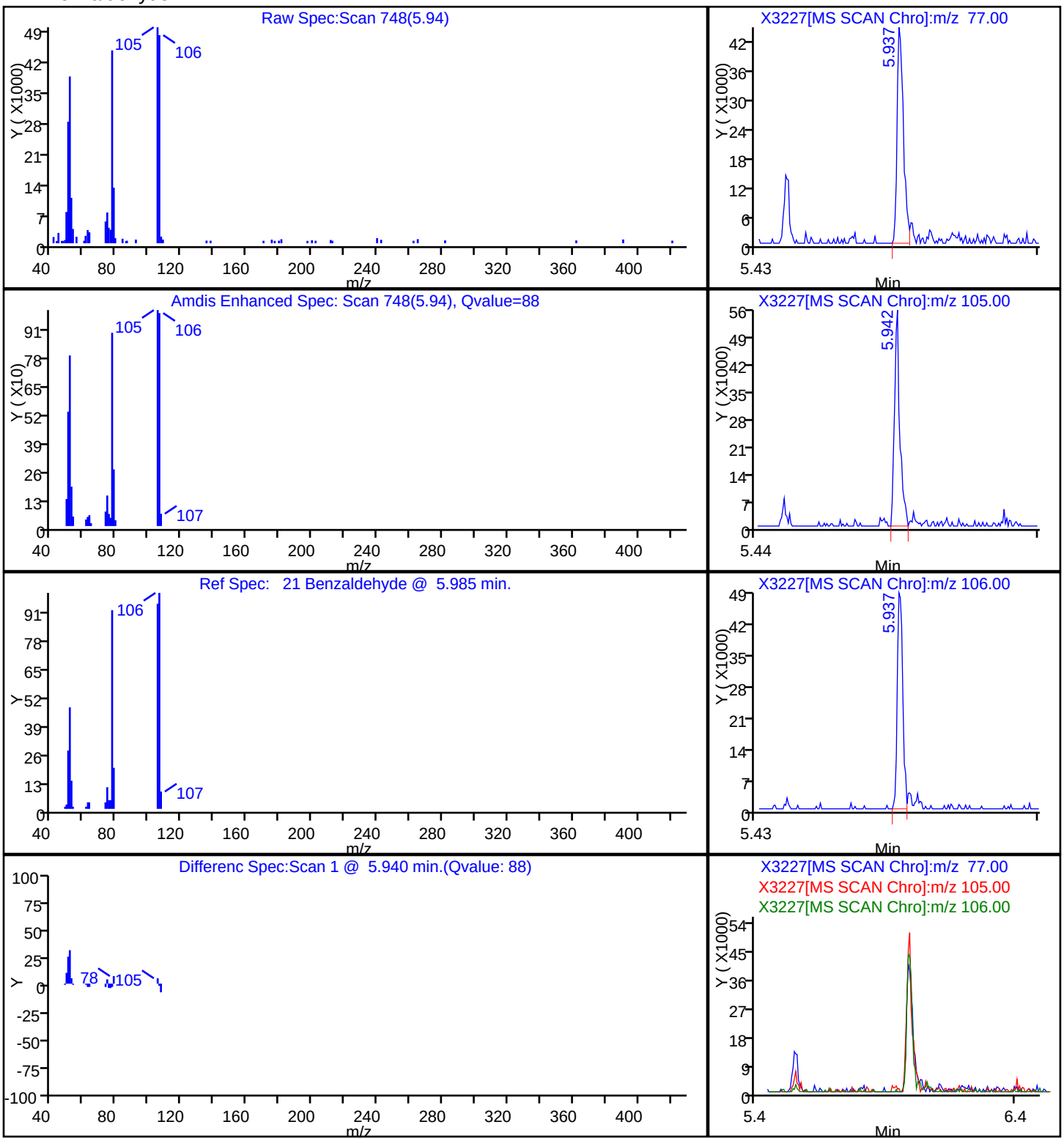


Report Date: 01-Mar-2013 16:46:15 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3227.D		
Injection Date:	21-Dec-2012 12:20:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-503-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	7
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

21 Benzaldehyde

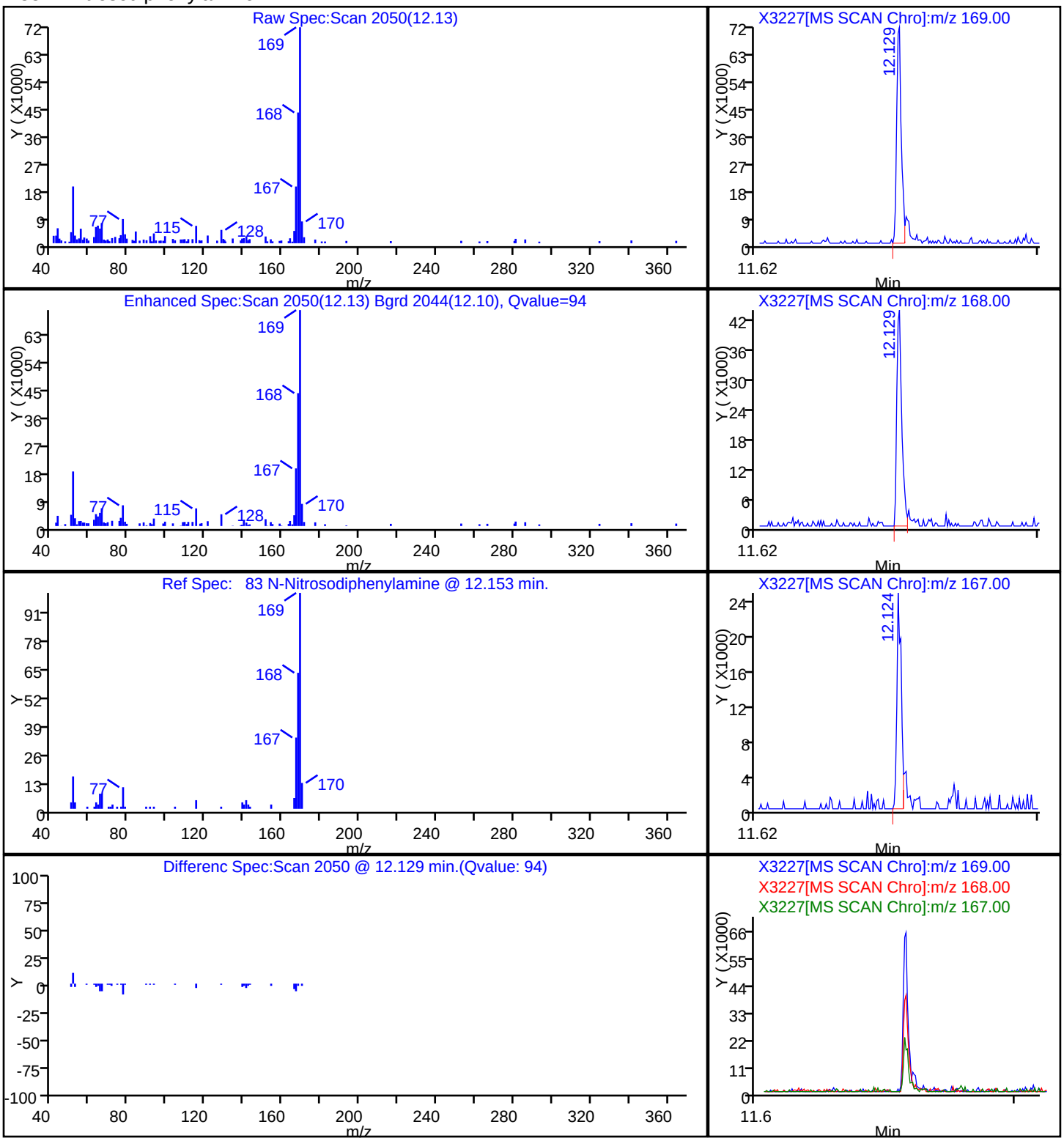


Report Date: 01-Mar-2013 16:46:15 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3227.D		
Injection Date:	21-Dec-2012 12:20:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-503-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	7
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

83 N-Nitrosodiphenylamine

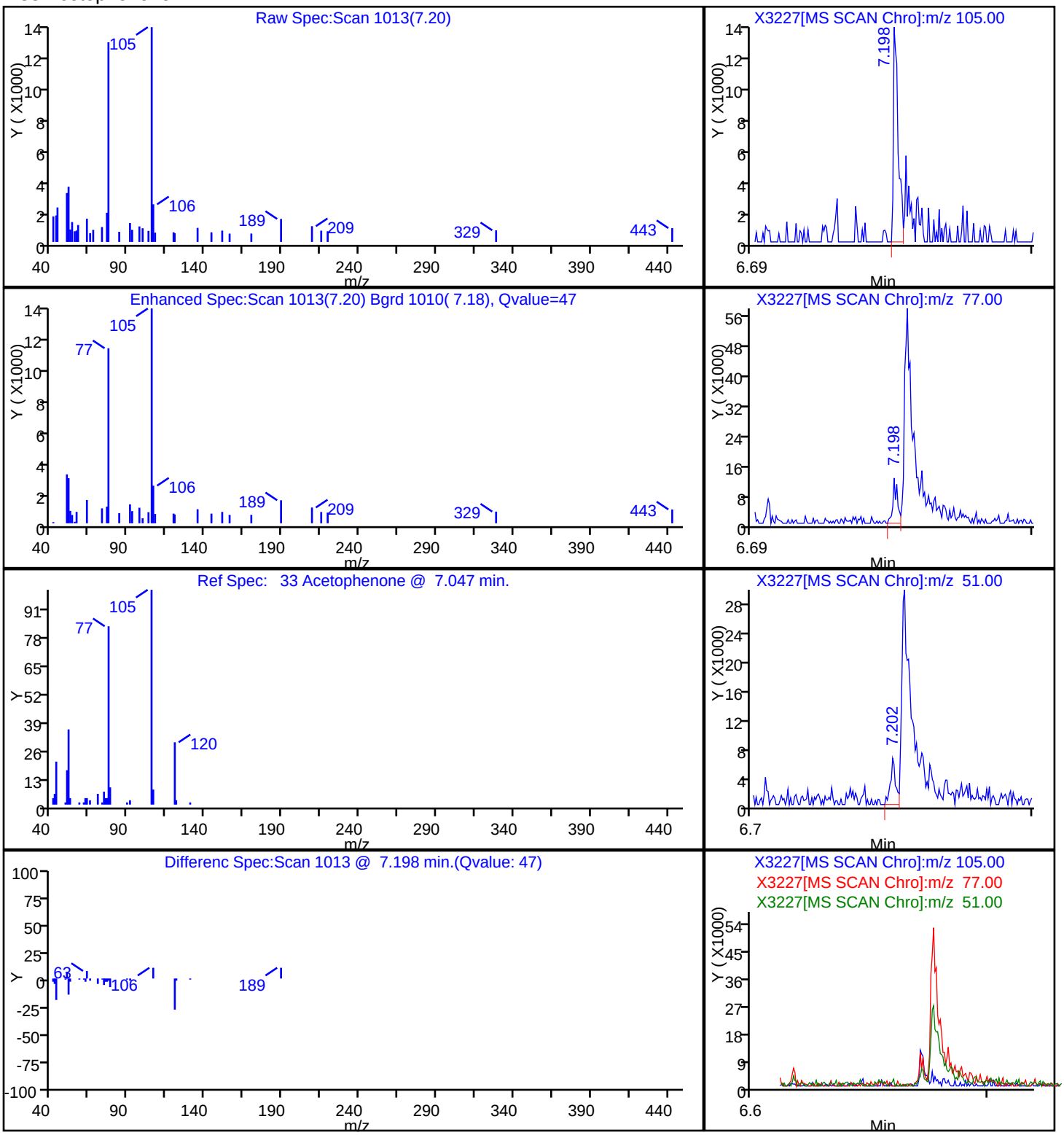


Report Date: 01-Mar-2013 16:46:15 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3227.D		
Injection Date:	21-Dec-2012 12:20:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-503-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	7
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

33 Acetophenone

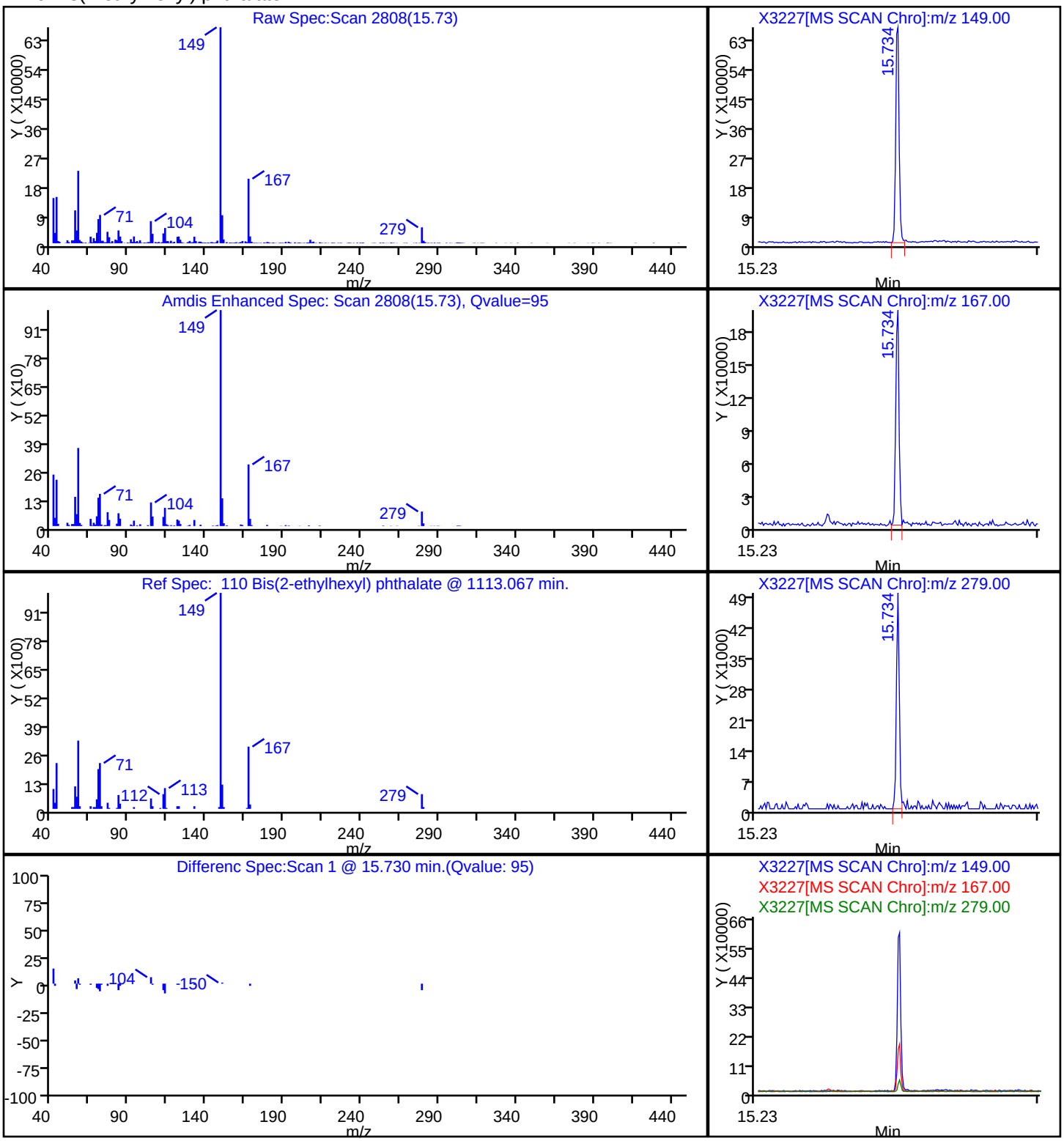


Report Date: 01-Mar-2013 16:46:16 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3227.D		
Injection Date:	21-Dec-2012 12:20:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-503-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	7
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

110 Bis(2-ethylhexyl) phthalate

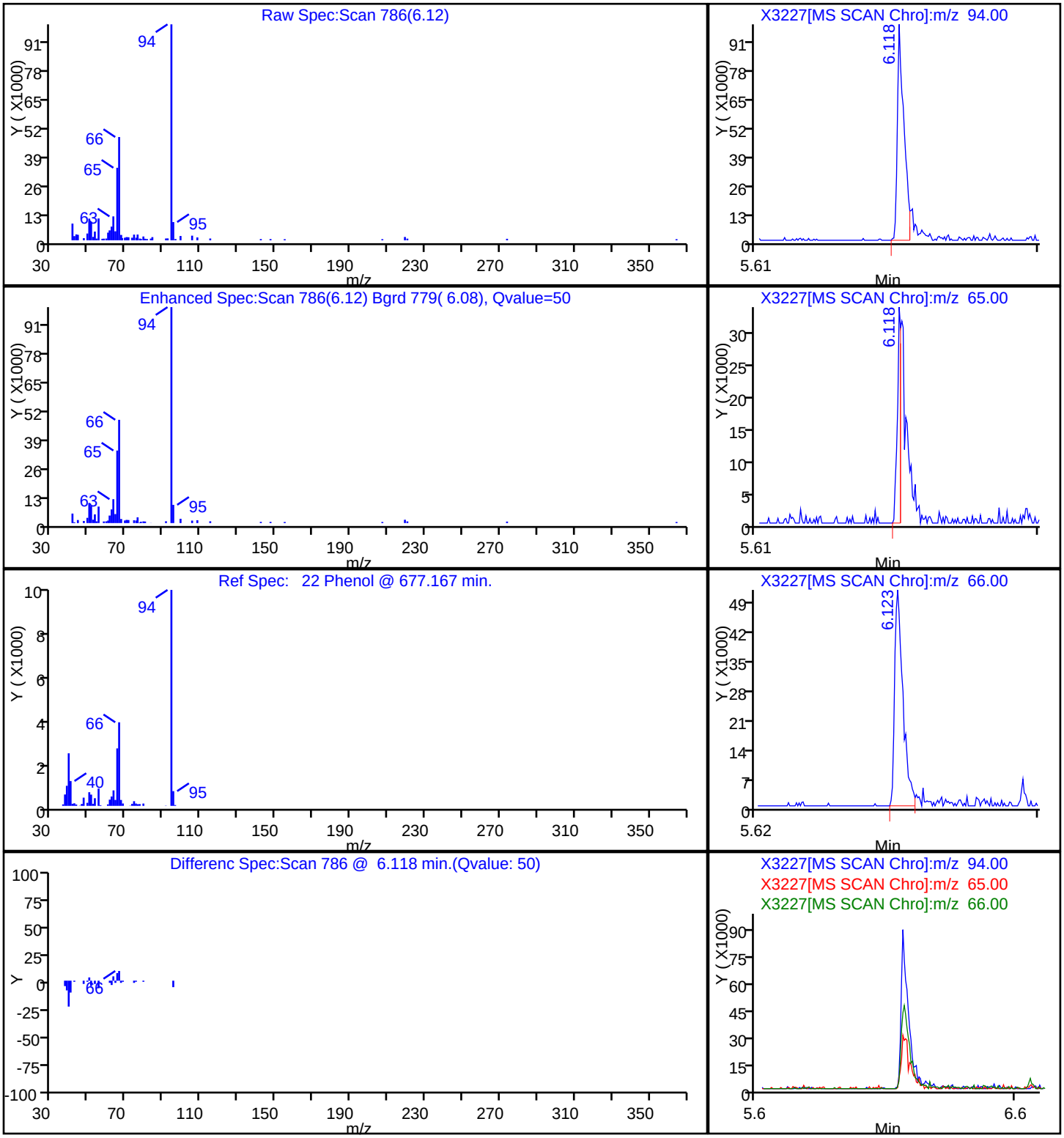


Report Date: 01-Mar-2013 16:46:15 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3227.D		
Injection Date:	21-Dec-2012 12:20:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-503-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	7
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

22 Phenol

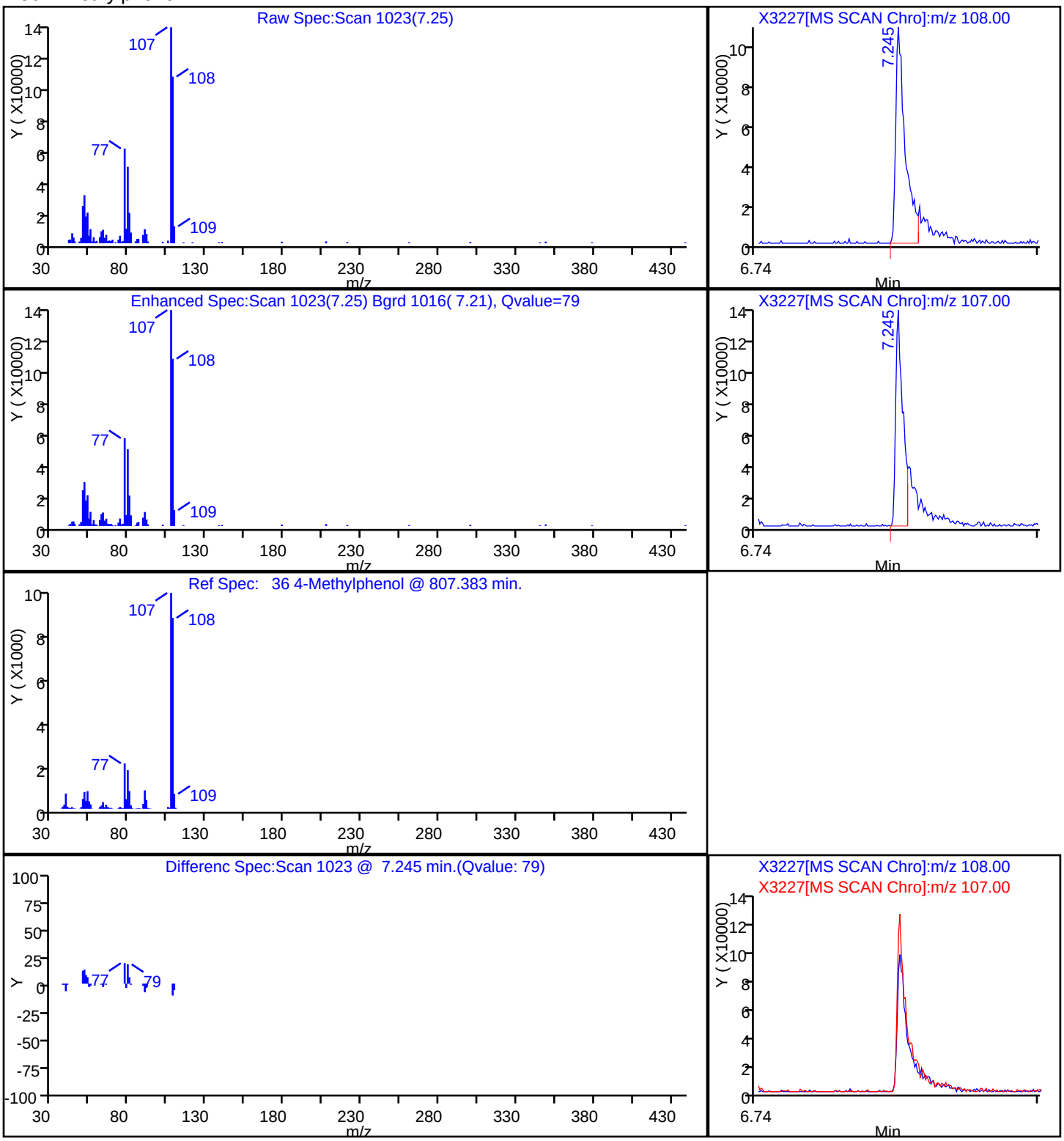


Report Date: 01-Mar-2013 16:46:15 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3227.D		
Injection Date:	21-Dec-2012 12:20:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-503-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	7
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

36 4-Methylphenol

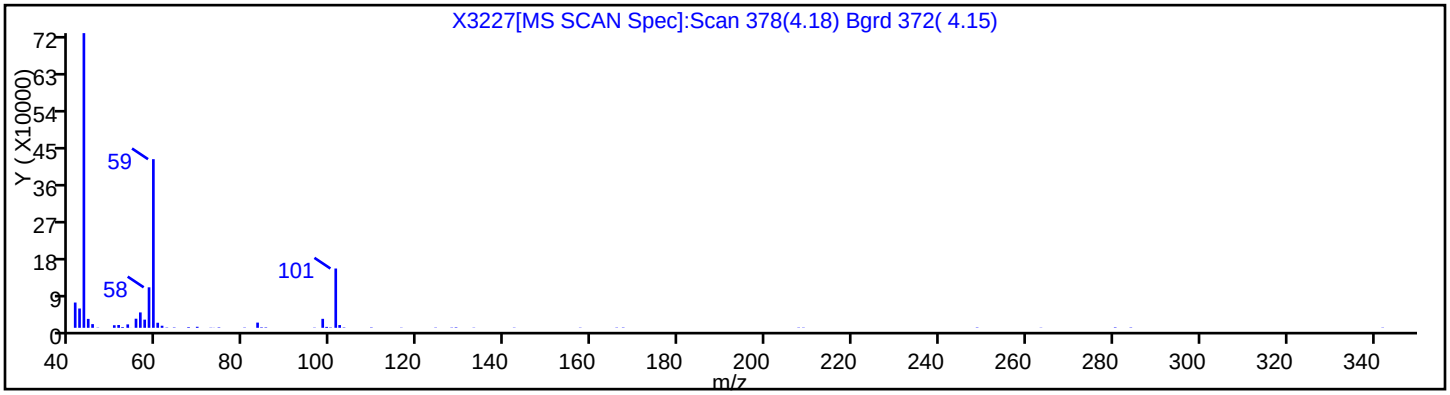


Report Date: 01-Mar-2013 16:46:16 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3227.D		
Injection Date:	21-Dec-2012 12:20:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-503-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	7
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

No Library Matches Found above the Threshold: 85

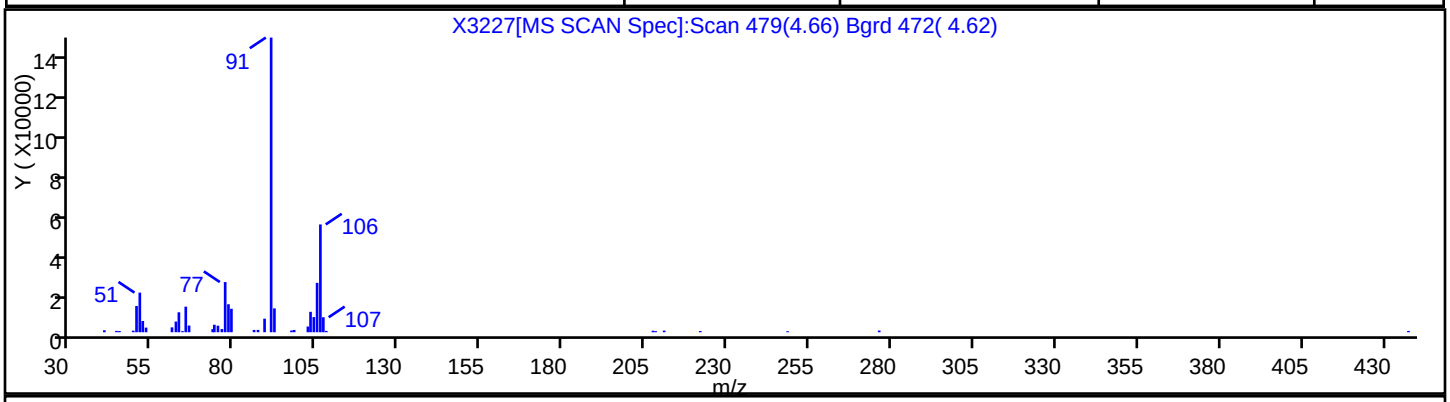


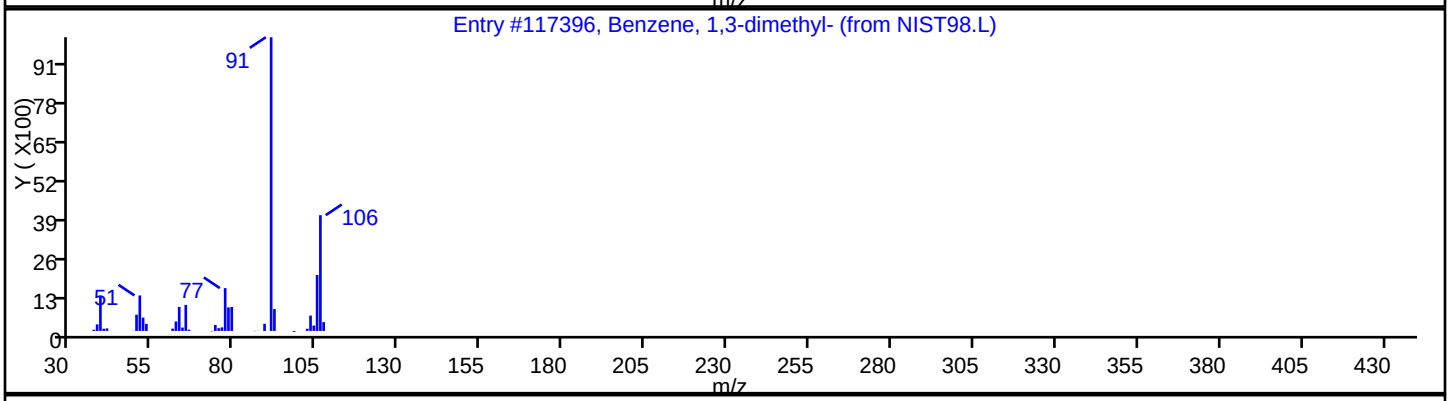
Report Date: 01-Mar-2013 16:46:16 Chrom Revision: 2.0 01-Feb-2013 10:03:10

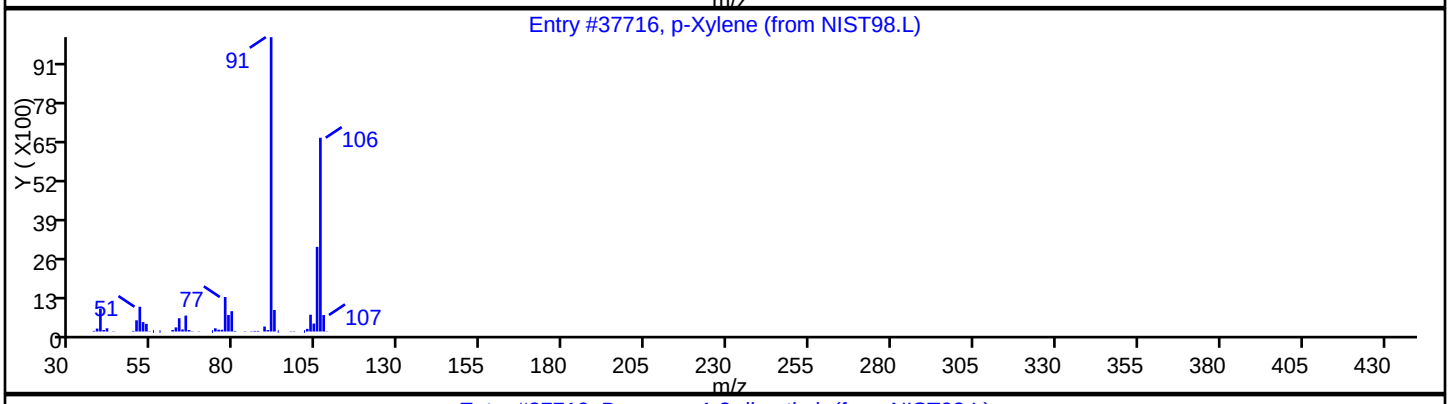
TestAmerica Buffalo

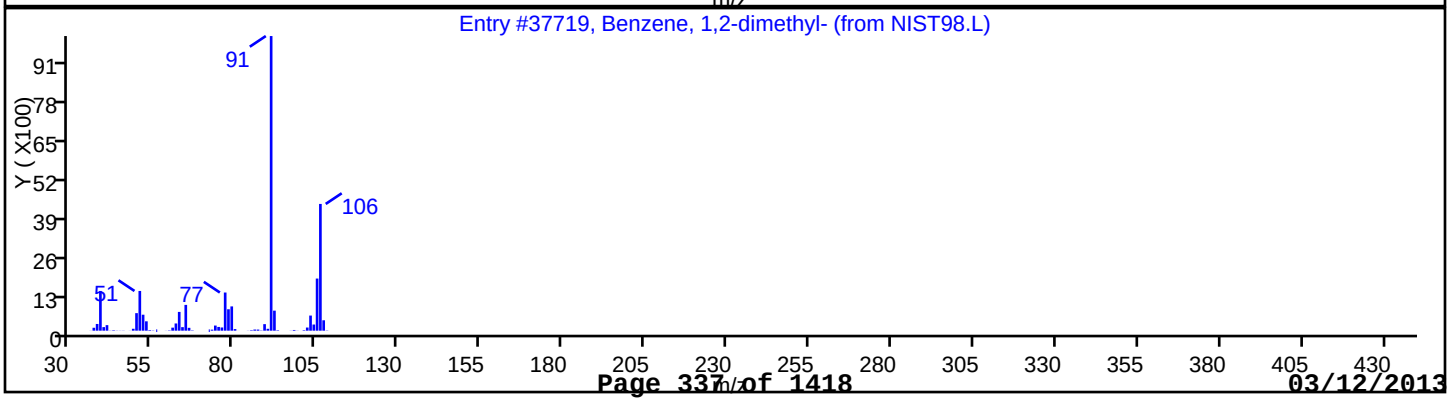
Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3227.D		
Injection Date:	21-Dec-2012 12:20:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-503-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	7
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Benzene, 1,3-dimethyl-	108-38-3	NIST98.L	117396	97
p-Xylene	106-42-3	NIST98.L	37716	90
Benzene, 1,2-dimethyl-	95-47-6	NIST98.L	37719	90







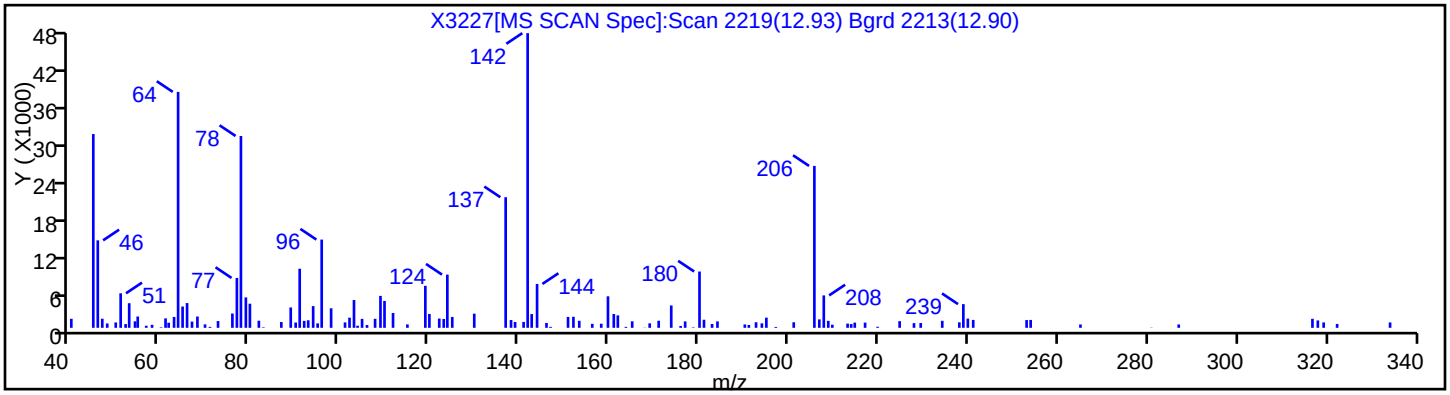


Report Date: 01-Mar-2013 16:46:16 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3227.D		
Injection Date:	21-Dec-2012 12:20:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-503-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	7
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

No Library Matches Found above the Threshold: 85

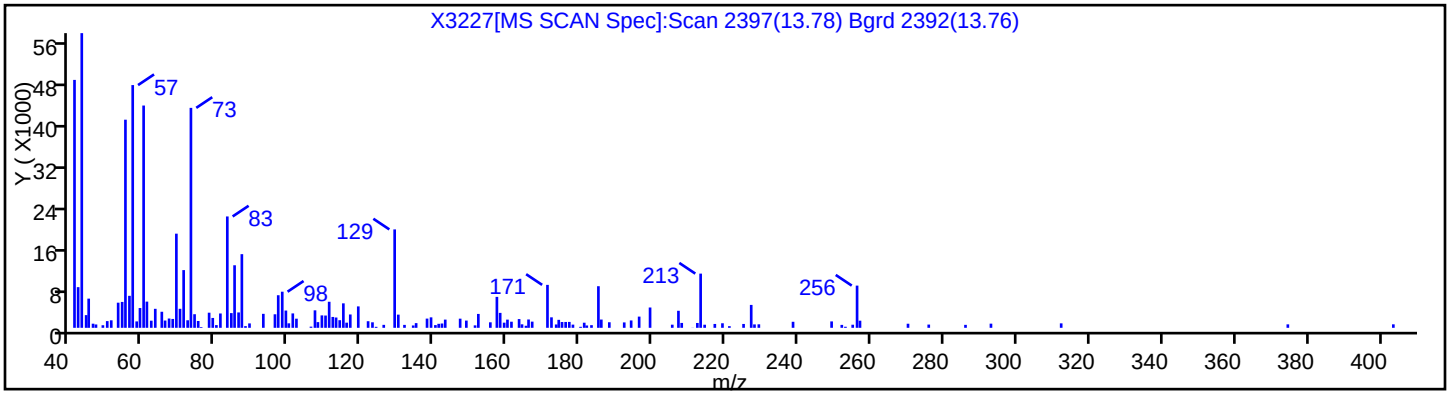


Report Date: 01-Mar-2013 16:46:16 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3227.D		
Injection Date:	21-Dec-2012 12:20:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-503-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	7
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

No Library Matches Found above the Threshold: 85

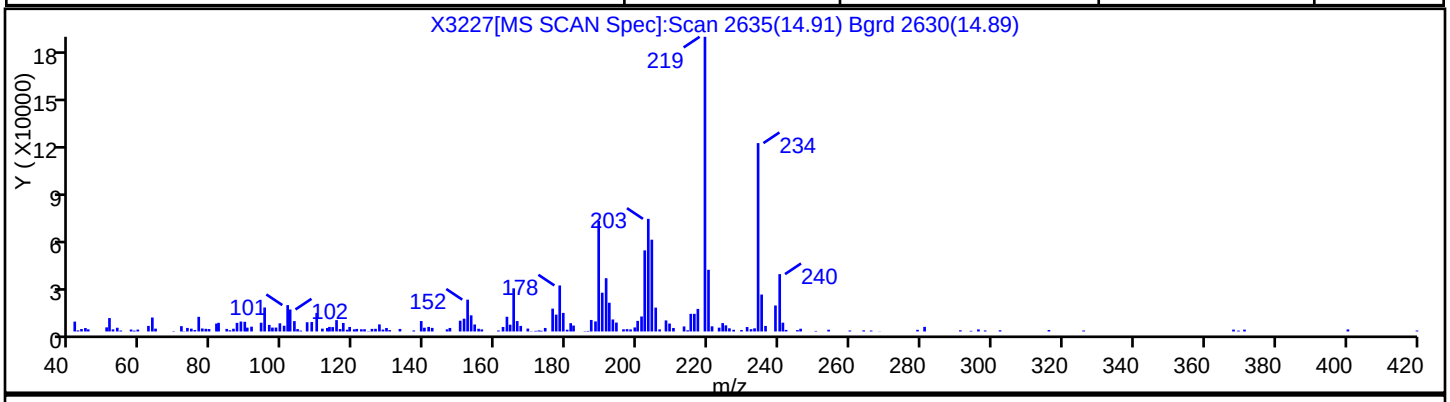


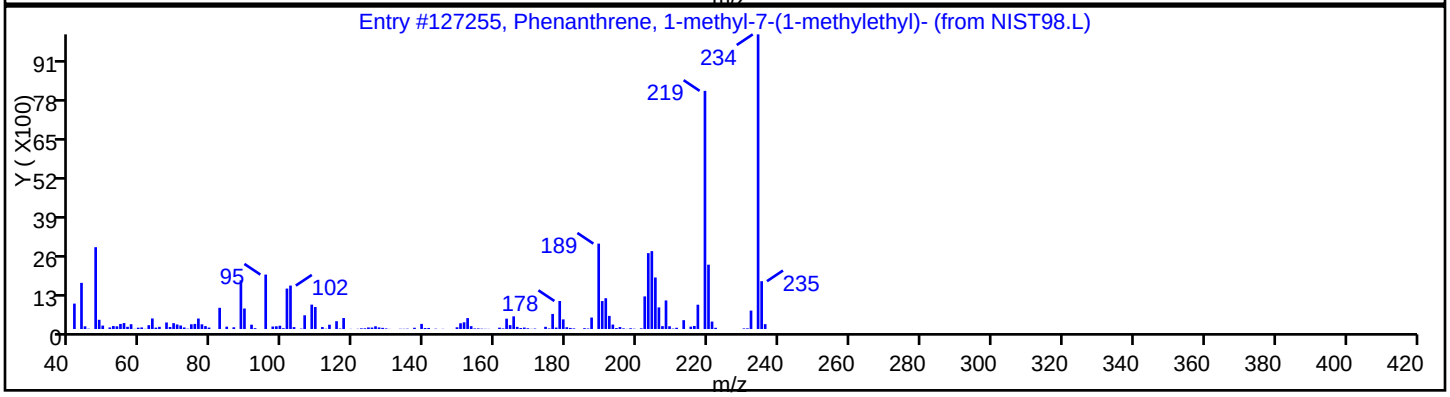
Report Date: 01-Mar-2013 16:46:16 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3227.D		
Injection Date:	21-Dec-2012 12:20:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-503-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	7
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Phenanthrene, 1-methyl-7-(1-methylethyl)	483-65-8	NIST98.L	127255	93



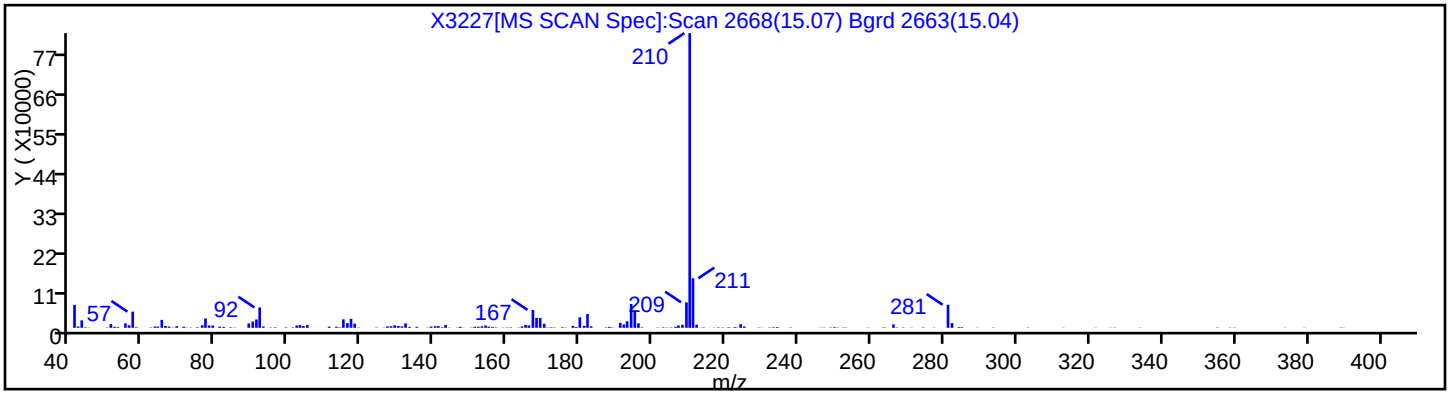


Report Date: 01-Mar-2013 16:46:16 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3227.D		
Injection Date:	21-Dec-2012 12:20:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-503-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	7
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

No Library Matches Found above the Threshold: 85

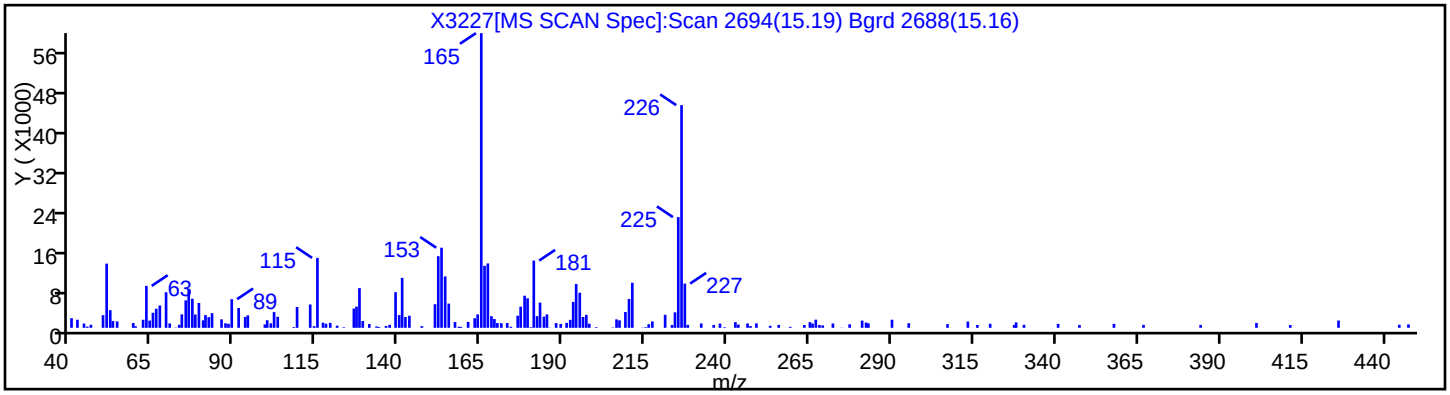


Report Date: 01-Mar-2013 16:46:16 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3227.D		
Injection Date:	21-Dec-2012 12:20:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-503-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	7
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

No Library Matches Found above the Threshold: 85

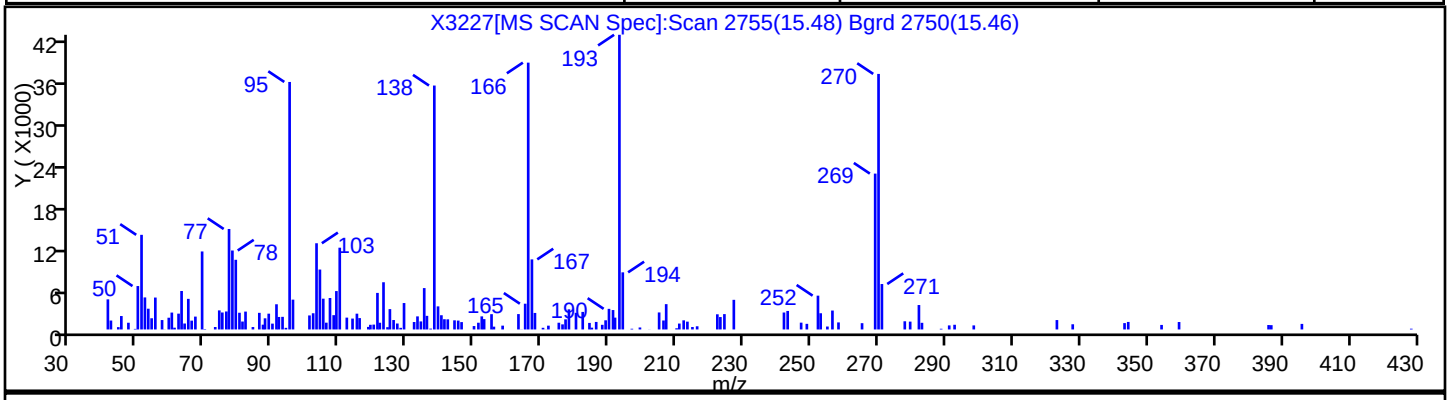


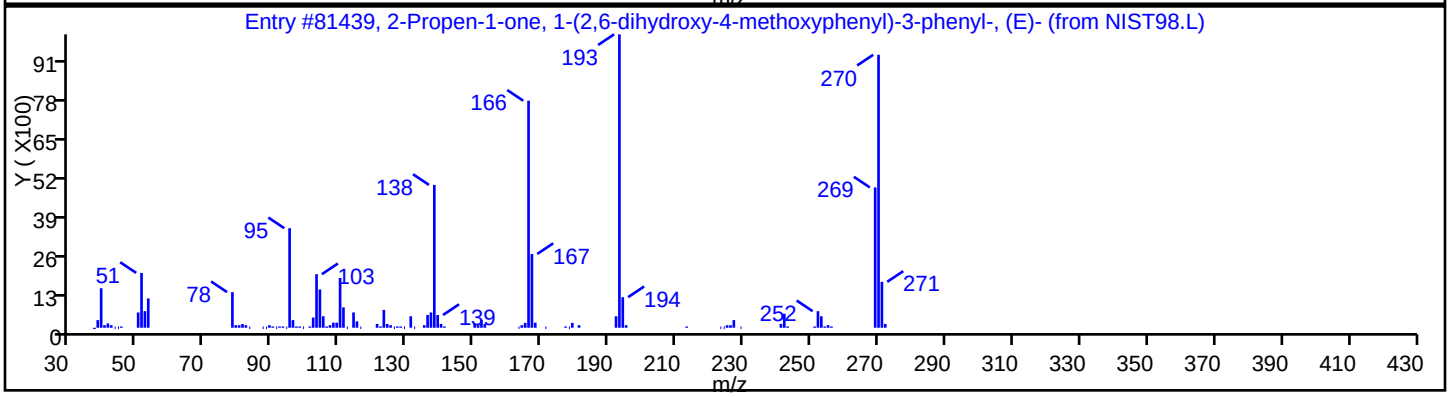
Report Date: 01-Mar-2013 16:46:16 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3227.D		
Injection Date:	21-Dec-2012 12:20:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-503-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	7
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
2-Propen-1-one, 1-(2,6-dihydroxy-4-metho	18956-15-5	NIST98.L	81439	90



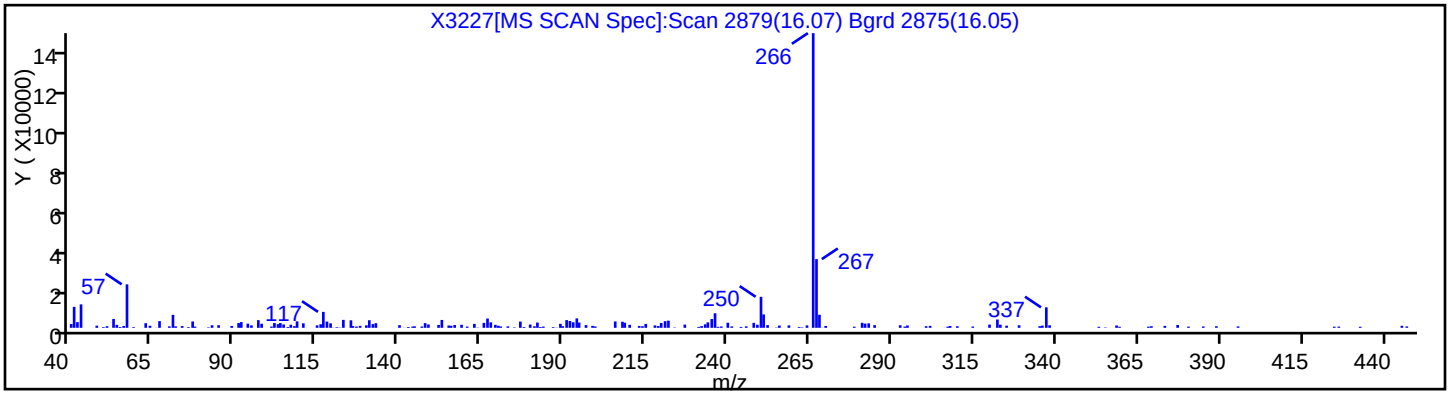


Report Date: 01-Mar-2013 16:46:16 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3227.D		
Injection Date:	21-Dec-2012 12:20:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-503-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	7
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

No Library Matches Found above the Threshold: 85

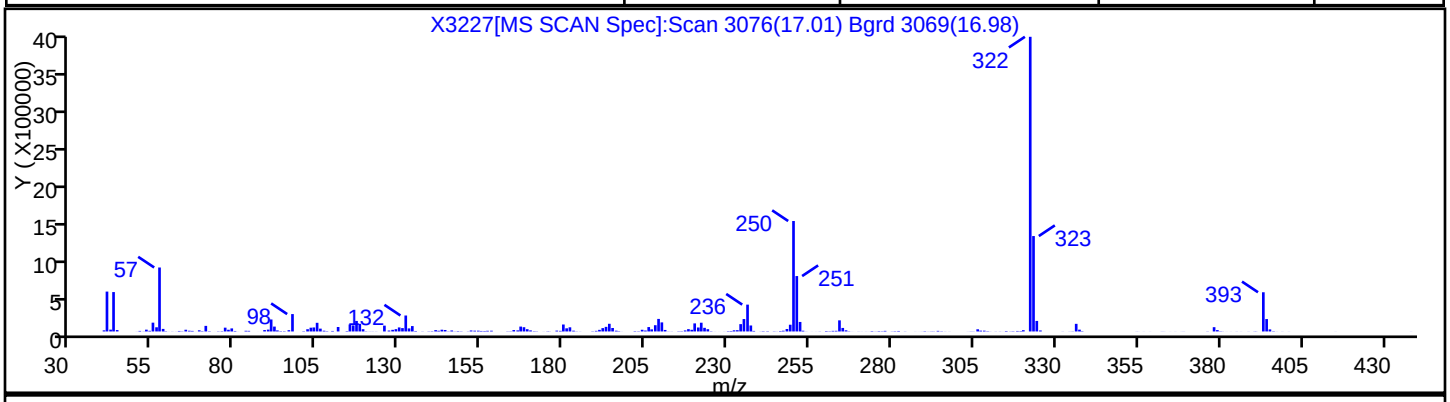


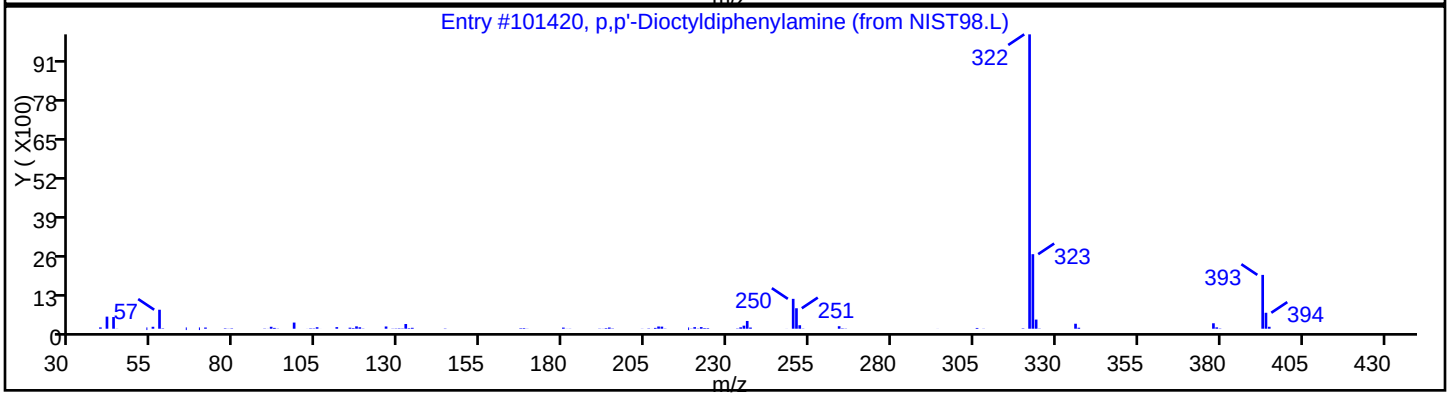
Report Date: 01-Mar-2013 16:46:16 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3227.D		
Injection Date:	21-Dec-2012 12:20:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-503-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	7
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
p,p'-Dioctyldiphenylamine	26603-23-6	NIST98.L	101420	96





FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-30406-1

SDG No.:

Client Sample ID: OC-SD-SD-504-XXX | Lab Sample ID: 480-30406-2

Matrix: Solid | Lab File ID: X3228.D

Analysis Method: 8270D | Date Collected: 12/17/2012 15:00

Extract. Method: 3546 | Date Extracted: 12/19/2012 09:46

Sample wt/vol: 000030.8(g) | Date Analyzed: 12/21/2012 12:45

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

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

% Moisture: 43.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 97046 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	ND		580	170
95-50-1	1,2-Dichlorobenzene	ND		580	170
541-73-1	1,3-Dichlorobenzene	ND		580	170
100-52-7	Benzaldehyde	620		580	170
106-46-7	1,4-Dichlorobenzene	ND		580	170
108-60-1	2,2'-oxybis[1-chloropropane]	ND		580	170
95-95-4	2,4,5-Trichlorophenol	ND		580	190
88-06-2	2,4,6-Trichlorophenol	ND		580	240
100-51-6	Benzyl alcohol	ND		1200	170
120-83-2	2,4-Dichlorophenol	ND		580	170
105-67-9	2,4-Dimethylphenol	ND		580	170
51-28-5	2,4-Dinitrophenol	ND	*	580	470
121-14-2	2,4-Dinitrotoluene	ND		580	170
100-01-6	4-Nitroaniline	ND		2900	480
606-20-2	2,6-Dinitrotoluene	ND		580	480
91-58-7	2-Chloronaphthalene	ND		580	170
95-57-8	2-Chlorophenol	ND		580	170
86-30-6	N-Nitrosodiphenylamine	ND		580	170
91-57-6	2-Methylnaphthalene	ND		580	170
95-48-7	2-Methylphenol	ND		580	170
88-75-5	2-Nitrophenol	ND		580	230
15831-10-4	3 & 4 Methylphenol	1800		580	170
91-94-1	3,3'-Dichlorobenzidine	ND		1200	210
88-74-4	2-Nitroaniline	ND		2900	730
77-47-4	Hexachlorocyclopentadiene	ND		1200	170
106-47-8	4-Chloroaniline	ND		1200	520
100-02-7	4-Nitrophenol	ND	*	2900	240
83-32-9	Acenaphthene	ND		580	170
534-52-1	4,6-Dinitro-2-methylphenol	ND		2900	550
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		580	170
208-96-8	Acenaphthylene	ND		580	170
98-86-2	Acetophenone	ND		580	170
62-53-3	Aniline	ND		580	170
120-12-7	Anthracene	ND		580	170

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-30406-1

SDG No.:

Client Sample ID: OC-SD-SD-504-XXX | Lab Sample ID: 480-30406-2

Matrix: Solid | Lab File ID: X3228.D

Analysis Method: 8270D | Date Collected: 12/17/2012 15:00

Extract. Method: 3546 | Date Extracted: 12/19/2012 09:46

Sample wt/vol: 000030.8(g) | Date Analyzed: 12/21/2012 12:45

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

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

% Moisture: 43.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 97046 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1912-24-9	Atrazine	ND		580	170
103-33-3	Azobenzene	ND	*	580	170
56-55-3	Benzo[a]anthracene	ND		580	170
50-32-8	Benzo[a]pyrene	220	J	580	170
205-99-2	Benzo[b]fluoranthene	ND		580	170
191-24-2	Benzo[g,h,i]perylene	ND		580	170
105-60-2	Caprolactam	ND		580	170
99-09-2	3-Nitroaniline	ND		2900	170
207-08-9	Benzo[k]fluoranthene	ND		580	290
111-91-1	Bis(2-chloroethoxy)methane	ND		580	170
92-52-4	1,1'-Biphenyl	ND		580	170
111-44-4	Bis(2-chloroethyl)ether	ND		580	170
117-81-7	Bis(2-ethylhexyl) phthalate	ND		2900	1200
85-68-7	Butyl benzyl phthalate	ND		580	170
218-01-9	Chrysene	ND		580	170
621-64-7	N-Nitrosodi-n-propylamine	ND		580	170
65-85-0	Benzoic acid	ND		2900	260
53-70-3	Dibenz(a,h)anthracene	ND		580	170
132-64-9	Dibenzofuran	ND		580	170
84-66-2	Diethyl phthalate	ND		580	190
131-11-3	Dimethyl phthalate	ND		580	170
84-74-2	Di-n-butyl phthalate	ND		2900	870
117-84-0	Di-n-octyl phthalate	ND		580	170
101-84-8	Phenyl ether	ND		580	170
58-90-2	2,3,4,6-Tetrachlorophenol	ND		580	170
206-44-0	Fluoranthene	ND		580	170
59-50-7	4-Chloro-3-methylphenol	ND		1200	170
86-73-7	Fluorene	ND		580	170
7005-72-3	4-Chlorophenyl phenyl ether	ND		580	170
118-74-1	Hexachlorobenzene	ND		580	170
87-68-3	Hexachlorobutadiene	ND		580	170
67-72-1	Hexachloroethane	ND		580	170
193-39-5	Indeno[1,2,3-cd]pyrene	ND		580	170
78-59-1	Isophorone	ND		580	170

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-30406-1
SDG No.:
Client Sample ID: OC-SD-SD-504-XXX
Lab Sample ID: 480-30406-2
Matrix: Solid
Lab File ID: X3228.D
Analysis Method: 8270D
Date Collected: 12/17/2012 15:00
Extract. Method: 3546
Date Extracted: 12/19/2012 09:46
Sample wt/vol: 000030.8(g)
Date Analyzed: 12/21/2012 12:45
Con. Extract Vol.: 1(mL)
Dilution Factor: 10
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture: 43.7
GPC Cleanup:(Y/N) N
Analysis Batch No.: 97046
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-20-3	Naphthalene	ND		580	170
98-95-3	Nitrobenzene	ND		580	170
87-86-5	Pentachlorophenol	ND		580	170
85-01-8	Phenanthrene	ND		580	170
119-61-9	Benzophenone	ND		580	170
108-95-2	Phenol	1400		580	170
129-00-0	Pyrene	ND		580	170
62-75-9	N-Nitrosodimethylamine	ND		580	170
86-74-8	Carbazole	ND		580	170
90-12-0	1-Methylnaphthalene	ND		580	170
106-44-5	4-Methylphenol	1800		580	170

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	0	X	30-130
367-12-4	2-Fluorophenol	0	X	30-130
4165-60-0	Nitrobenzene-d5	0	X	30-130
4165-62-2	Phenol-d5	0	X	30-130
321-60-8	2-Fluorobiphenyl	0	X	30-130
1718-51-0	p-Terphenyl-d14	59		30-130

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo | Job No.: 480-30406-1

SDG No.:

Client Sample ID: OC-SD-SD-504-XXX | Lab Sample ID: 480-30406-2

Matrix: Solid | Lab File ID: X3228.D

Analysis Method: 8270D | Date Collected: 12/17/2012 15:00

Extract. Method: 3546 | Date Extracted: 12/19/2012 09:46

Sample wt/vol: 000030.8(g) | Date Analyzed: 12/21/2012 12:45

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

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

% Moisture: 43.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 97046 | Units: ug/Kg

Number TICs Found: 10 | TIC Result Total: 17250

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown	3.18	940	T J
	Unknown	4.19	8400	T J
	Unknown	4.66	2400	T J
	Unknown	5.54	650	T J
289-16-7	1,2,4-Trithiolane	7.61	550	T J N
	Unknown	12.40	610	T J
	Unknown	12.94	870	T J
	Unknown	13.78	830	T J
	Unknown	15.07	700	T J
	Unknown	15.21	1300	T J

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3228.D		
Lims ID:	480-30406-D-2-A	Client ID:	OC-SD-SD-504-XXX
Inject. Date:	21-Dec-2012 12:45:30	Dil. Factor:	10.0000
Sample Type:	Client		
Sample ID:	480-0017772-008		
Misc. Info.:			
Operator:	ANM	Instrument ID:	HP5973X
Injection Vol:	1.0 ul	ALS Bottle#:	9
Lims Batch ID:	97046	Lims Sample ID:	8
Detector:	MS SCAN		

Method:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X-8270LL.m		
Last Update:	01-Mar-2013 16:46:14	Calib Date:	18-Dec-2012 14:44:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3139.D		
Limit Group:	MB - 8270RCP_MCP ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm
Process Host:	XAWRK018		

First Level Reviewer: mckernar Date: 21-Dec-2012 13:11:14

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.579	6.599	-0.020	82	118267	5.00	
* 2 Naphthalene-d8	136	8.472	8.491	-0.019	96	413773	5.00	
* 3 Acenaphthene-d10	164	11.126	11.107	0.019	89	257002	5.00	
* 4 Phenanthrene-d10	188	13.128	13.114	0.014	96	461109	5.00	
* 5 Chrysene-d12	240	15.767	15.767	0.0	94	392020	5.00	
* 6 Perylene-d12	264	17.056	17.056	0.0	93	406347	5.00	
$ 7 2-Fluorophenol	112		4.677					9
$ 8 Phenol-d5	99		6.109					9
$ 9 Nitrobenzene-d5	82		7.431					9
$ 10 2-Fluorobiphenyl	172		10.122					9
$ 11 2,4,6-Tribromophenol	330		12.262					9
$ 12 p-Terphenyl-d14	244	14.802	14.792	0.010	60	8879	0.1175	
19 N-Nitrosodimethylamine	42		2.785					
21 Benzaldehyde	77	5.942	5.952	-0.010	75	24795	1.07	
23 Aniline	93		6.118					
22 Phenol	94	6.137	6.128	0.009	0	84459	2.34	M
24 Bis(2-chloroethyl)ether	93		6.223					
25 2-Chlorophenol	128		6.289					19
26 1,3-Dichlorobenzene	146		6.508					9
27 1,4-Dichlorobenzene	146		6.622					9
28 Benzyl alcohol	108		6.841					
29 1,2-Dichlorobenzene	146		6.841					
31 2-Methylphenol	108		7.027					9
32 2,2'-oxybis[1-chloropropane]	45		7.036					
35 DFTPP								
33 Acetophenone	105	7.217	7.217	0.0	47	8703	0.1984	
34 N-Nitrosodi-n-propylamine	70		7.222					149
36 4-Methylphenol	108	7.260	7.274	-0.014	75	80173	3.08	
37 Hexachloroethane	117		7.336					19
38 Nitrobenzene	77		7.464					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
40 Isophorone	82		7.826					9
41 2-Nitrophenol	139		7.940					
43 2,4-Dimethylphenol	107		8.054					
45 Bis(2-chloroethoxy)methane	93		8.173					1
44 Benzoic acid	105		8.235					14
47 2,4-Dichlorophenol	162		8.325					
48 1,2,4-Trichlorobenzene	180		8.410					19
49 Naphthalene	128		8.520					
51 4-Chloroaniline	127		8.648					
52 Hexachlorobutadiene	225		8.715					
54 Caprolactam	113		9.186					
55 4-Chloro-3-methylphenol	107		9.438					19
56 2-Methylnaphthalene	142		9.561					9
57 1-Methylnaphthalene	142		9.704					
58 Hexachlorocyclopentadiene	237		9.794					9
59 1,2,4,5-Tetrachlorobenzene	216		9.813					
60 2,4,6-Trichlorophenol	196		10.018					
61 2,4,5-Trichlorophenol	196		10.108					
62 1,1'-Biphenyl	154		10.265					19
63 2-Chloronaphthalene	162		10.313					9
64 Phenyl ether	170		10.427					
65 2-Nitroaniline	65		10.484					
67 Dimethyl phthalate	163		10.764					9
68 2,6-Dinitrotoluene	165		10.850					149
69 Acenaphthylene	152		10.898					9
70 3-Nitroaniline	138		11.116					
71 Acenaphthene	153		11.154					9
72 2,4-Dinitrophenol	184		11.288					
73 Dibenzofuran	168		11.421					19
74 2,4-Dinitrotoluene	165		11.459					19
75 4-Nitrophenol	109		11.492					
76 2,3,4,6-Tetrachlorophenol	232		11.640					
78 Diethyl phthalate	149		11.811					
79 Fluorene	166		11.920					
80 4-Chlorophenyl phenyl ether	204		11.939					
81 4-Nitroaniline	138		12.025					19
82 4,6-Dinitro-2-methylphenol	198		12.048					
83 N-Nitrosodiphenylamine	169	12.144	12.115	0.029	73	21309	0.1987	
85 Azobenzene	77		12.153					
86 Benzophenone	105		12.177					
89 4-Bromophenyl phenyl ether	248		12.581					
91 Hexachlorobenzene	284		12.643					
93 Atrazine	200		12.833					9
94 Pentachlorophenol	266		12.914					9
97 Phenanthrene	178		13.142					9
98 Anthracene	178		13.204					
99 Carbazole	167		13.413					
102 Di-n-butyl phthalate	149		13.799					
104 Fluoranthene	202	14.445	14.422	0.023	66	16094	0.1581	
106 Pyrene	202	14.664	14.645	0.019	74	14090	0.1341	
108 Butyl benzyl phthalate	149		15.244					
110 Bis(2-ethylhexyl) phthalate	149	15.734	15.739	-0.005	92	78576	0.9827	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
109 3,3'-Dichlorobenzidine	252		15.739					
111 Benzo[a]anthracene	228		15.753					
112 Chrysene	228	15.796	15.791	0.005	1	7173	0.0749	
113 Di-n-octyl phthalate	149		16.281					9
114 Benzo[b]fluoranthene	252		16.695					
115 Benzo[k]fluoranthene	252		16.718					9
116 Benzo[a]pyrene	252	17.008	17.004	0.004	12	35168	0.3854	
117 Indeno[1,2,3-cd]pyrene	276		18.155					9
118 Dibenz(a,h)anthracene	278		18.155					
119 Benzo[g,h,i]perylene	276		18.473					
S 120 3 & 4 Methylphenol	108		0.000					

QC Flag Legend

Processing Flags
1 - Missing Peaks
4 - Failed Signal Ratio Test
9 - Failed A Reference Spectral Test

Review Flags
M - Manually Integrated

TestAmerica Buffalo
Tentatively Identified Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3228.D		
Lims ID:	480-30406-D-2-A	Client ID:	OC-SD-SD-504-XXX
Inject. Date:	21-Dec-2012 12:45:30	Dil. Factor:	10.0000
Sample Type:	Client		
Sample ID:	480-0017772-008		
Misc. Info.:			
Operator:	ANM	Instrument ID:	HP5973X
Injection Vol:	1.0 ul	ALS Bottle#:	9
Lims Batch ID:	97046	Lims Sample ID:	8
Detector:	MS SCAN		
Method:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X-8270LL.m		
Last Update:	01-Mar-2013 16:46:14	Calib Date:	18-Dec-2012 14:44:30
Tic RT Window:	1.500 -0.000	Response:	area
Quant By:	Nearest ISTD	Quant LOD:	10.00000
MS Library:	\\Bufchrom\ChromData\Database\NIST98.L		
Min. Match:	85		
Process Host:	XAWRK018		
First Level Reviewer: mckernar		Date:	21-Dec-2012 13:11:14

Tentative Identified Compound Results

RT	Response	Amount ng/uL	Quant Cpnd	Qual	Lib Entry	Flags
		Unknown				
3.175	262493	1.63	1			
		Unknown				
4.187	2342028	14.5	1			
		Unknown				
4.663	660217	4.10	1			
		Unknown				
5.538	180424	1.12	1			
289-16-7		1,2,4-Trithiolane				
7.611	182838	0.9511	2	90	110936	
		Unknown				
12.400	292107	1.06	4			
		Unknown				
12.938	413068	1.50	4			
		Unknown				
13.784	394758	1.43	4			
		Unknown				
15.073	306972	1.22	5			
		Unknown				
15.206	577919	2.29	5			

Quantitation Compounds

Compound	RT	Response	Amount ng/uL

Report Date: 01-Mar-2013 16:46:17 Chrom Revision: 2.0 01-Feb-2013 10:03:10
Data File: \\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3228.D

Compound	RT	Response	Amount ng/uL
* 1 1,4-Dichlorobenzene-d4	6.575	804830	5.00
* 2 Naphthalene-d8	8.472	961165	5.00
* 4 Phenanthrene-d10	13.128	1376864	5.00
* 5 Chrysene-d12	15.767	1259807	5.00

QC Flag Legend

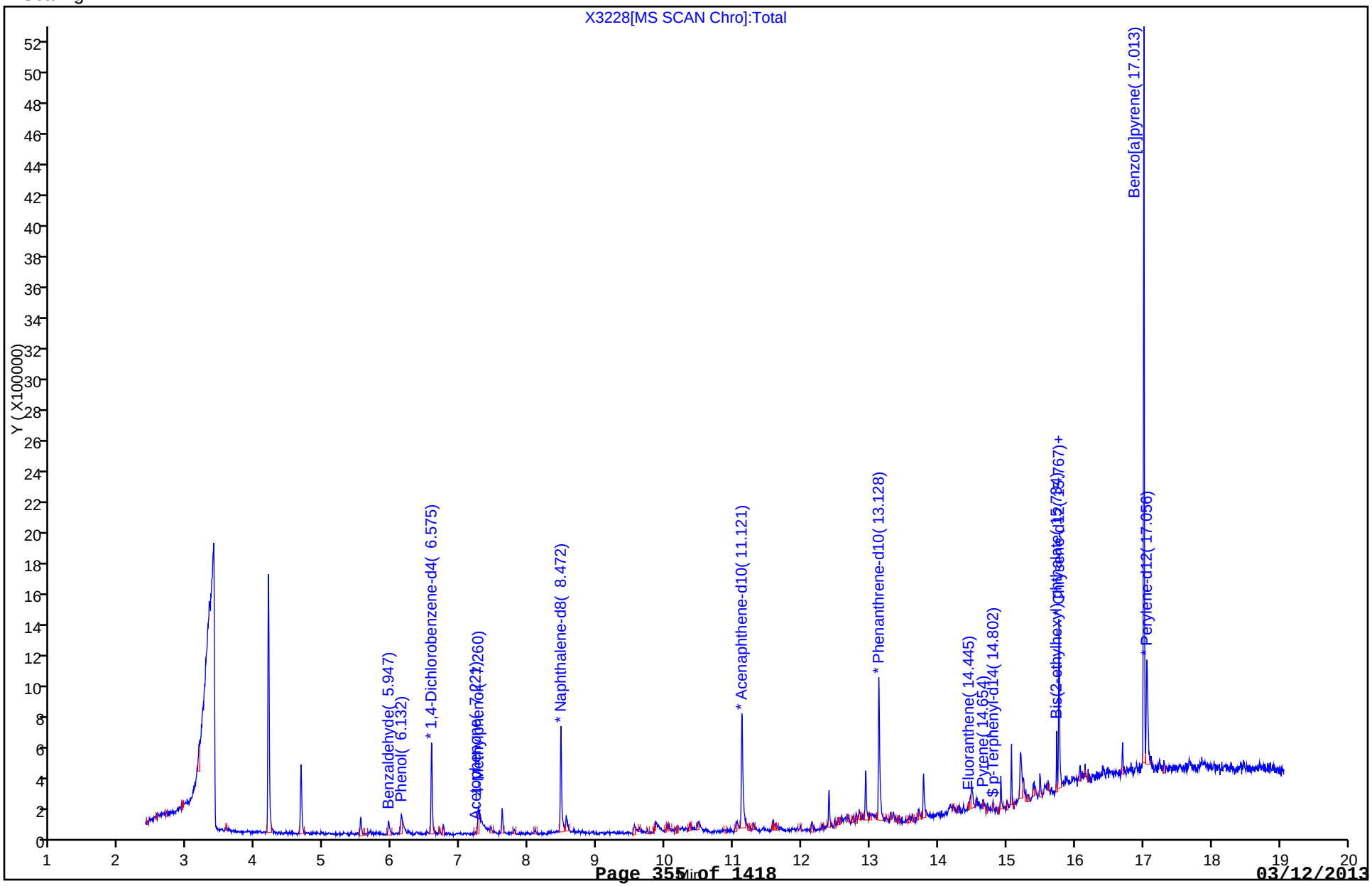
Processing Flags

Report Date: 01-Mar-2013 16:46:17 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3228.D		
Injection Date:	21-Dec-2012 12:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-504-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	8
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Y Scaling:

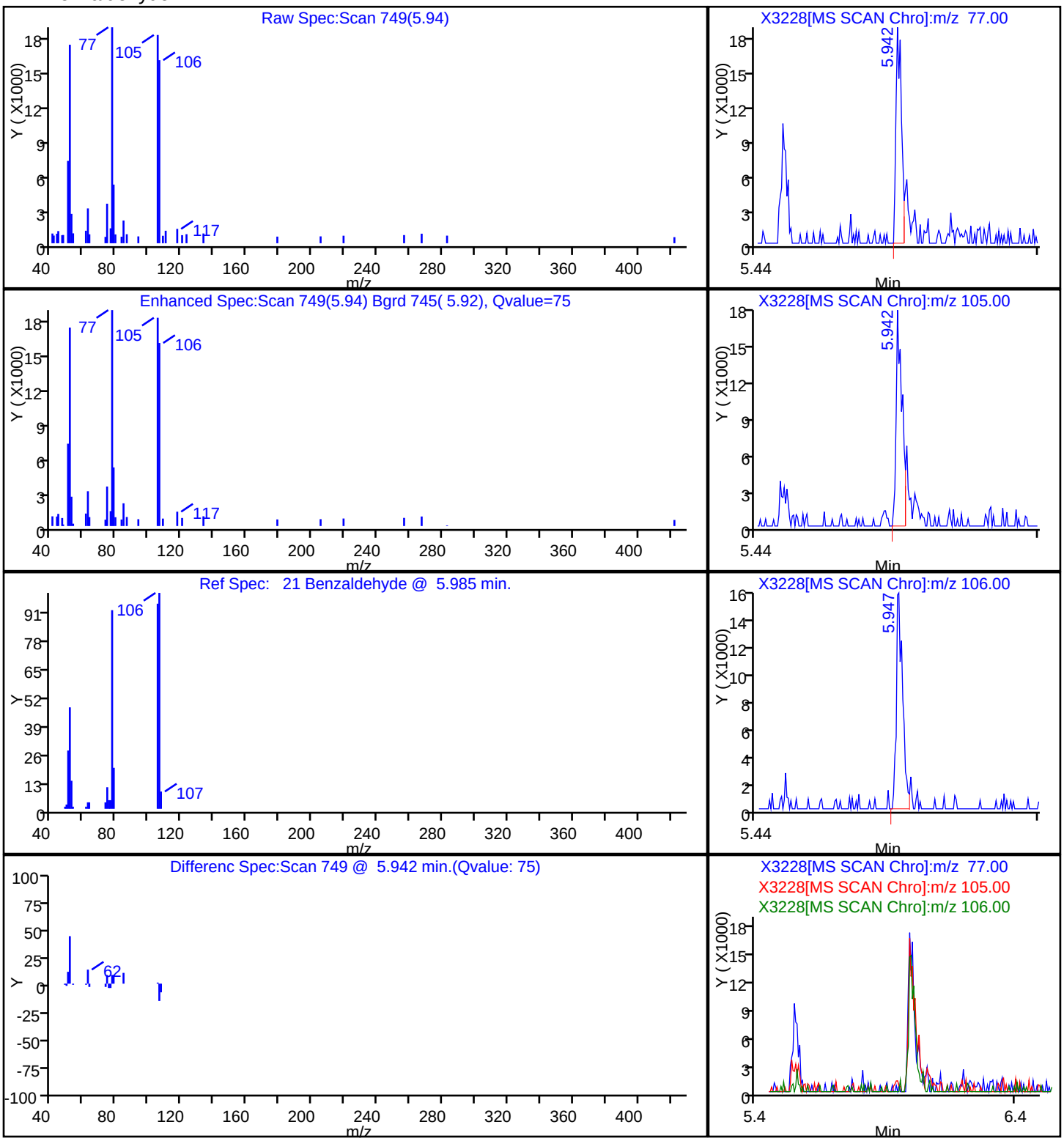


Report Date: 01-Mar-2013 16:46:17 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3228.D		
Injection Date:	21-Dec-2012 12:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-504-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	8
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

21 Benzaldehyde

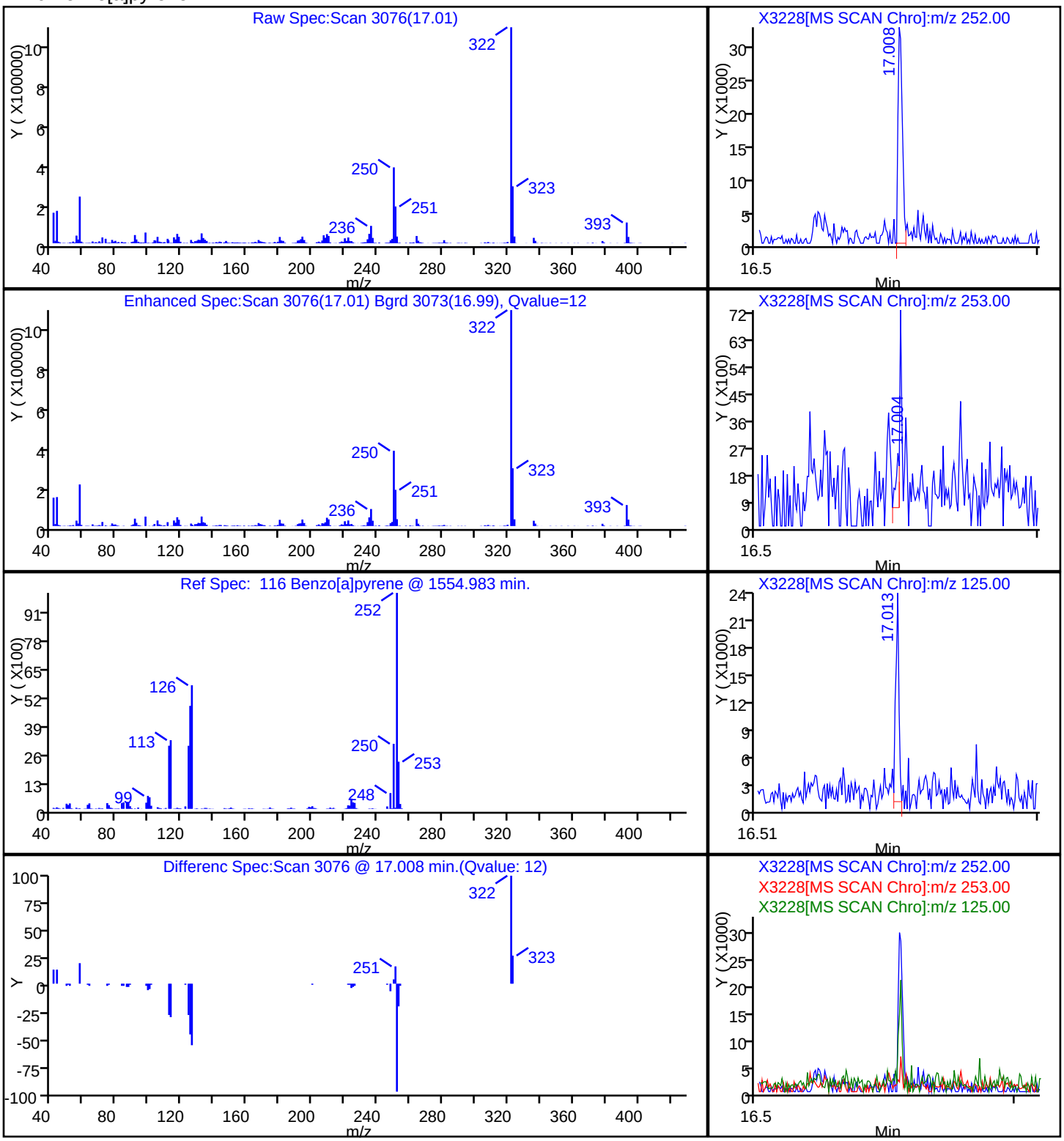


Report Date: 01-Mar-2013 16:46:18 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3228.D		
Injection Date:	21-Dec-2012 12:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-504-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	8
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

116 Benzo[a]pyrene

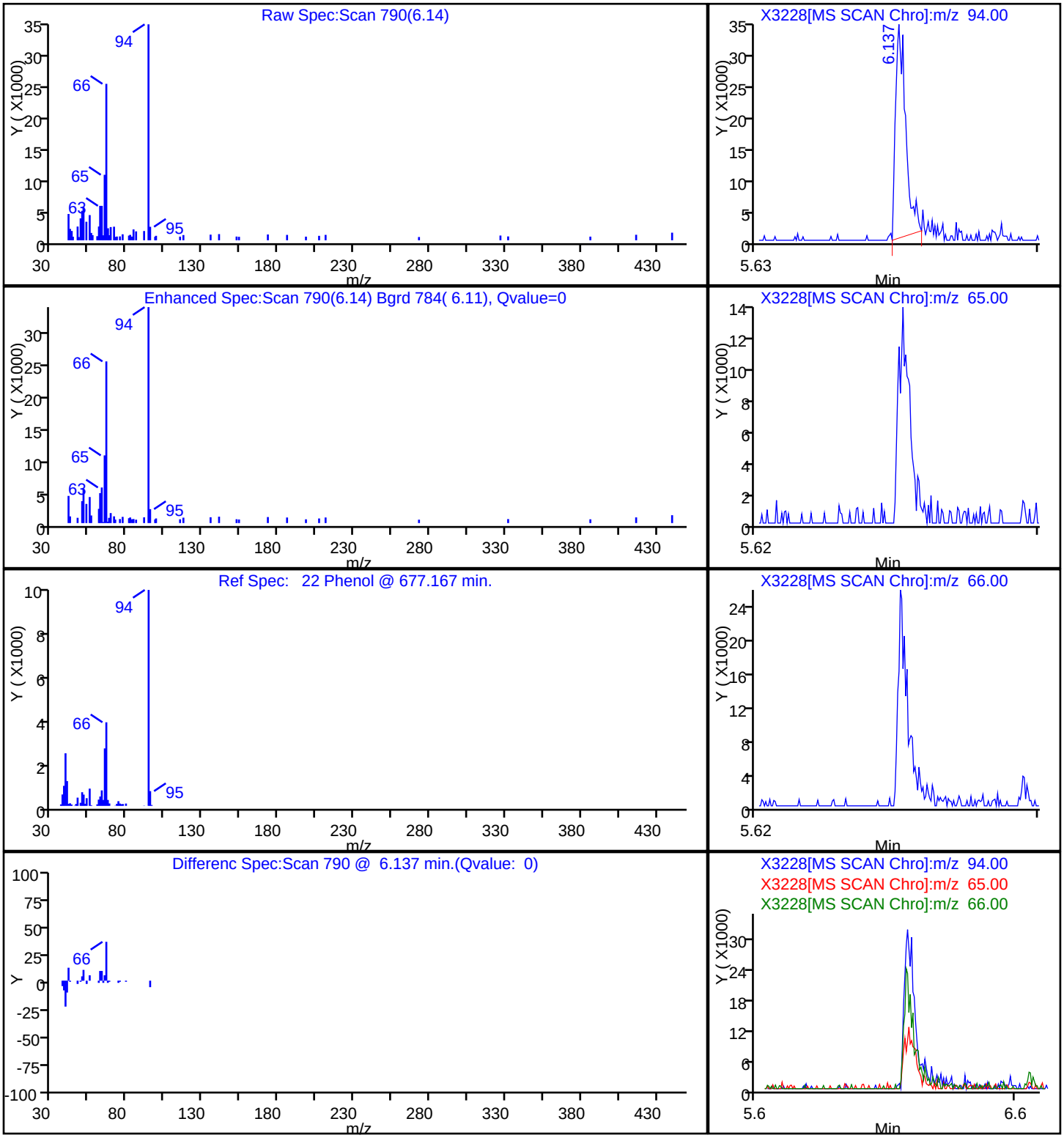


Report Date: 01-Mar-2013 16:46:17 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3228.D		
Injection Date:	21-Dec-2012 12:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-504-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	8
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

22 Phenol

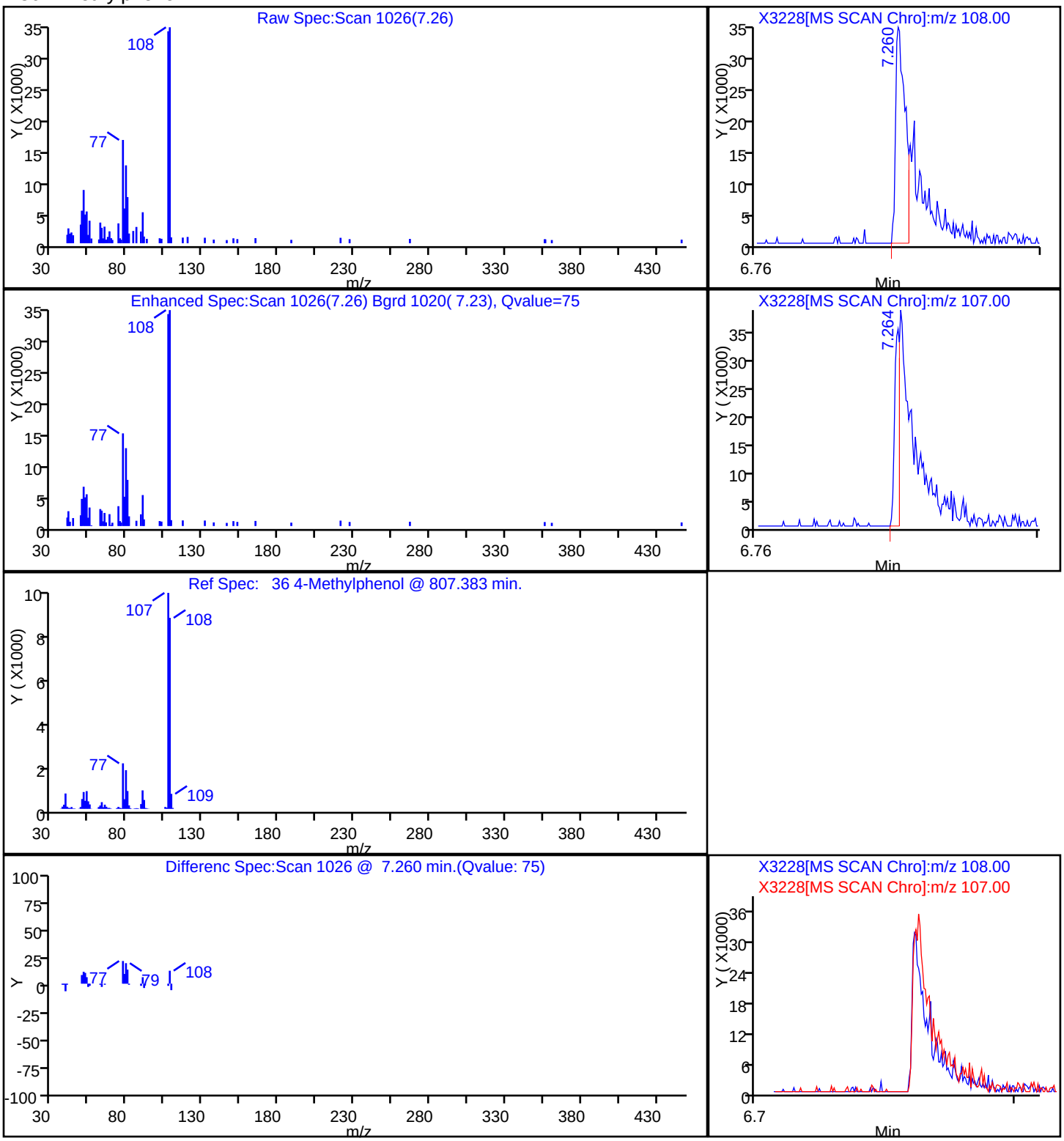


Report Date: 01-Mar-2013 16:46:17 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3228.D		
Injection Date:	21-Dec-2012 12:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-504-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	8
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

36 4-Methylphenol



Manual Integration/User Assign Peak Report

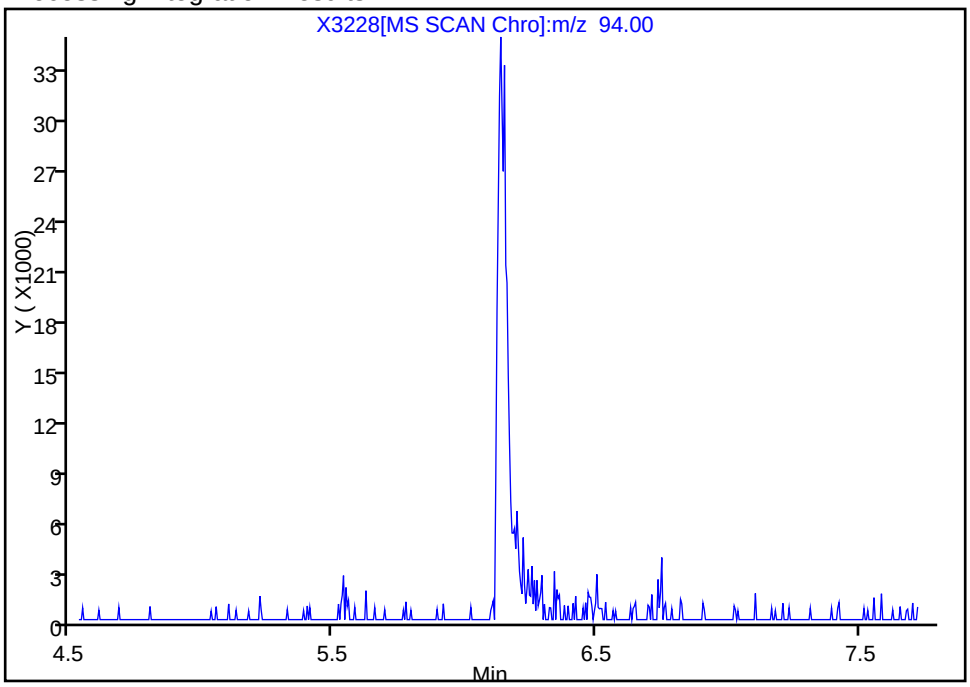
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3228.D		
Injection Date:	21-Dec-2012 12:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-504-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	8
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

22 Phenol, Signal: 1, m/z: 94.0 Type: quant, RT: 6.13

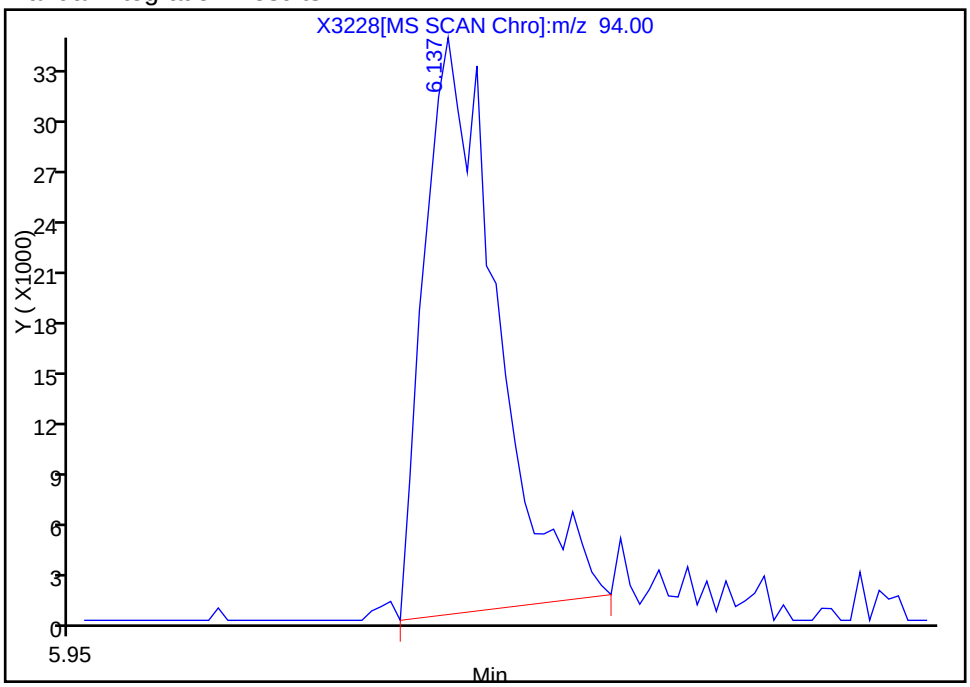
Processing Integration Results

Not Detected
Expected RT: 6.13



Manual Integration Results

RT: 6.14
Response: 84459
Amount: 2.344410



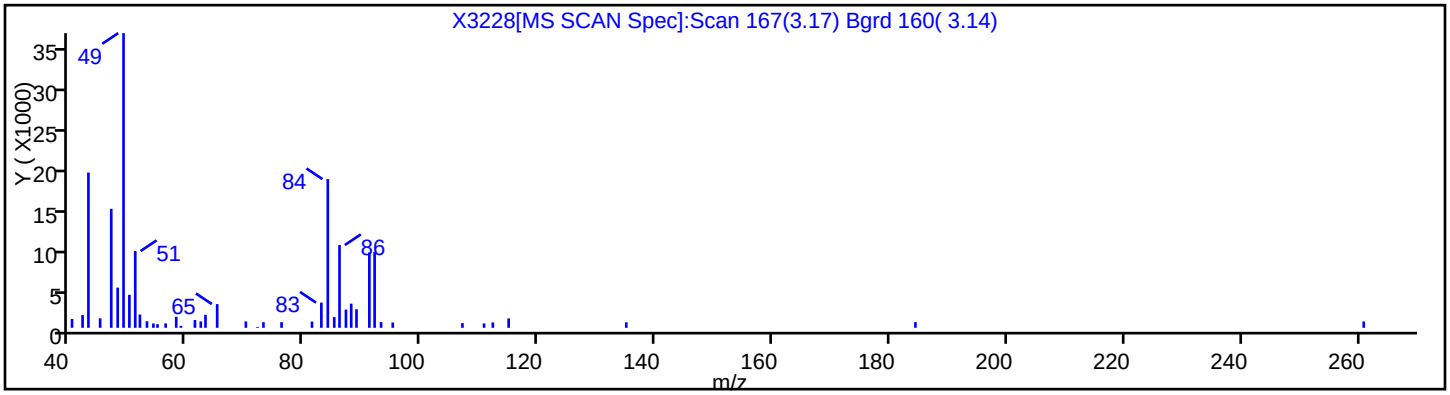
Reviewer: mckernar, 21-Dec-2012 13:11:14
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 01-Mar-2013 16:46:18 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3228.D		
Injection Date:	21-Dec-2012 12:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-504-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	8
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

No Library Matches Found above the Threshold: 85

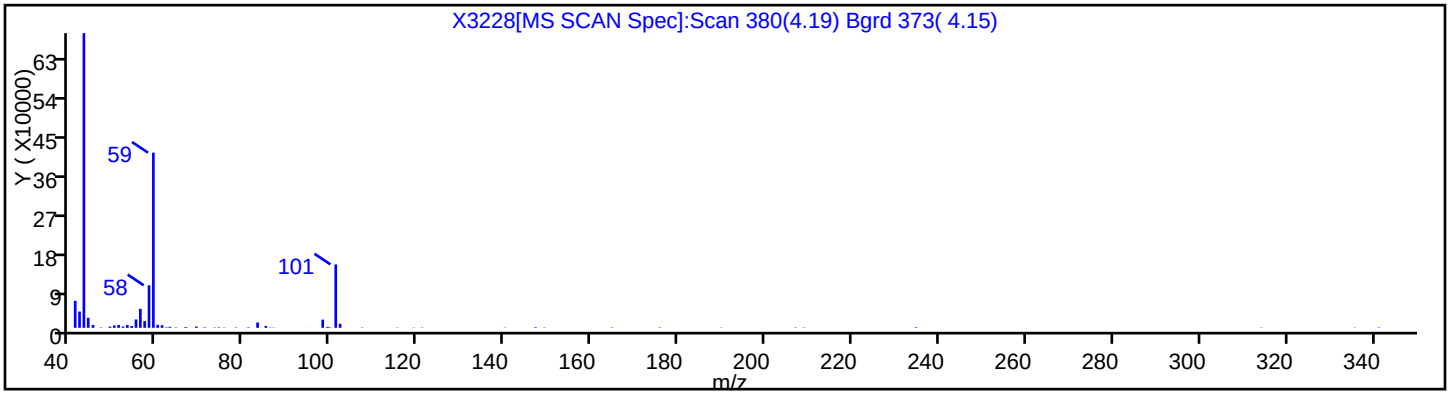


Report Date: 01-Mar-2013 16:46:18 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3228.D		
Injection Date:	21-Dec-2012 12:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-504-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	8
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

No Library Matches Found above the Threshold: 85

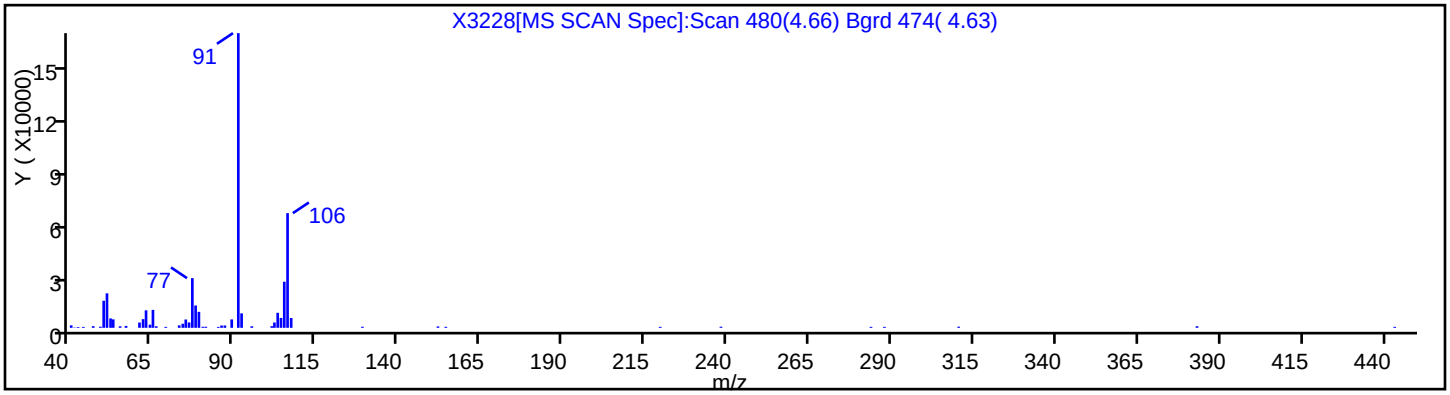


Report Date: 01-Mar-2013 16:46:18 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3228.D		
Injection Date:	21-Dec-2012 12:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-504-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	8
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

No Library Matches Found above the Threshold: 85

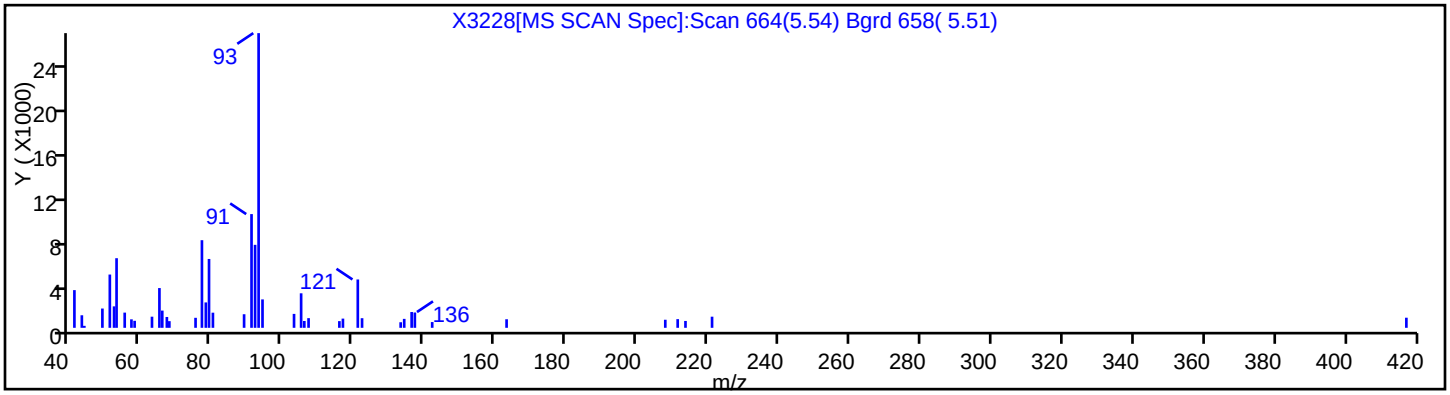


Report Date: 01-Mar-2013 16:46:18 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3228.D		
Injection Date:	21-Dec-2012 12:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-504-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	8
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

No Library Matches Found above the Threshold: 85

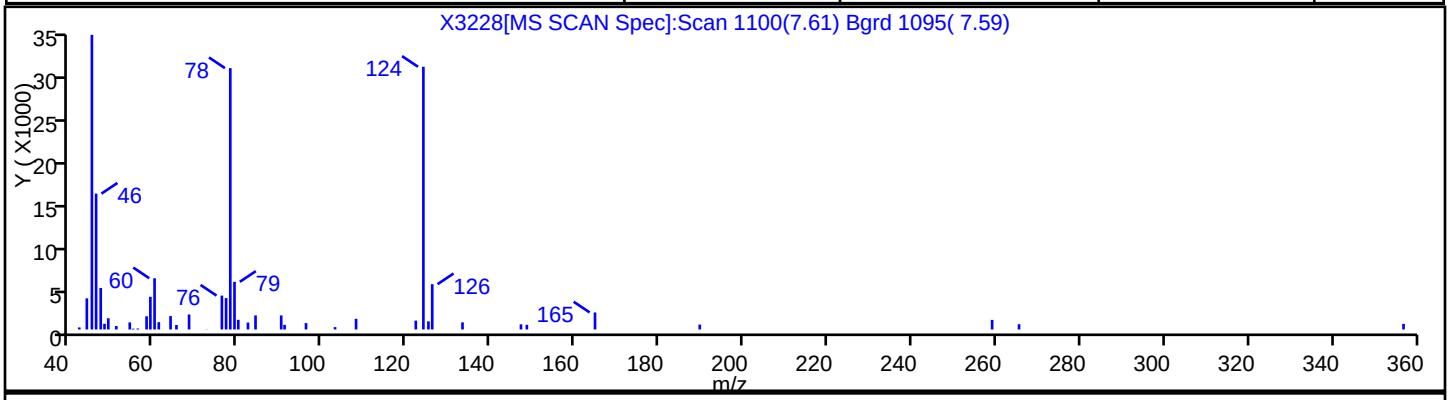


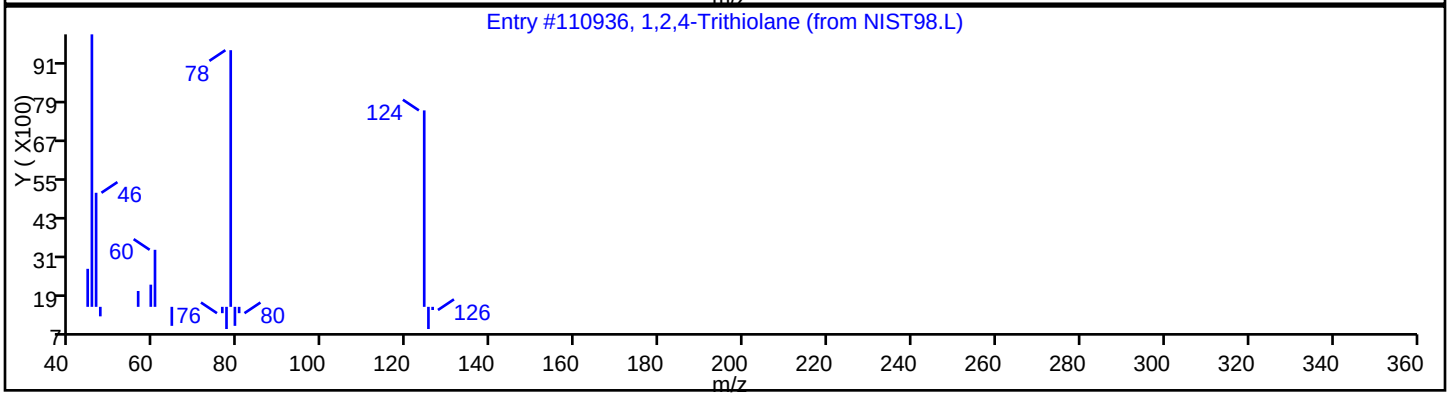
Report Date: 01-Mar-2013 16:46:18 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3228.D		
Injection Date:	21-Dec-2012 12:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-504-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	8
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
1,2,4-Trithiolane	289-16-7	NIST98.L	110936	90



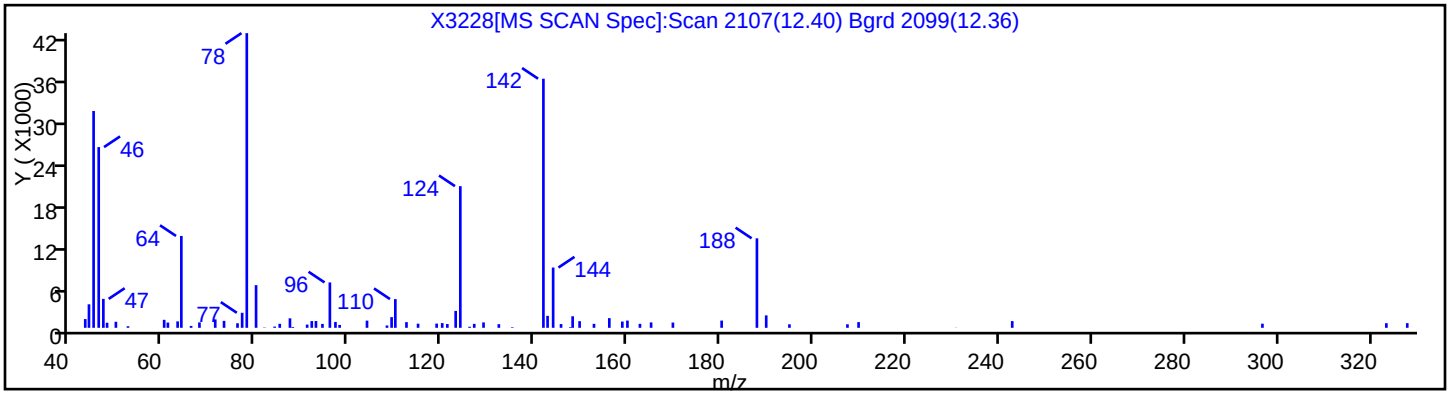


Report Date: 01-Mar-2013 16:46:18 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3228.D		
Injection Date:	21-Dec-2012 12:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-504-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	8
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

No Library Matches Found above the Threshold: 85

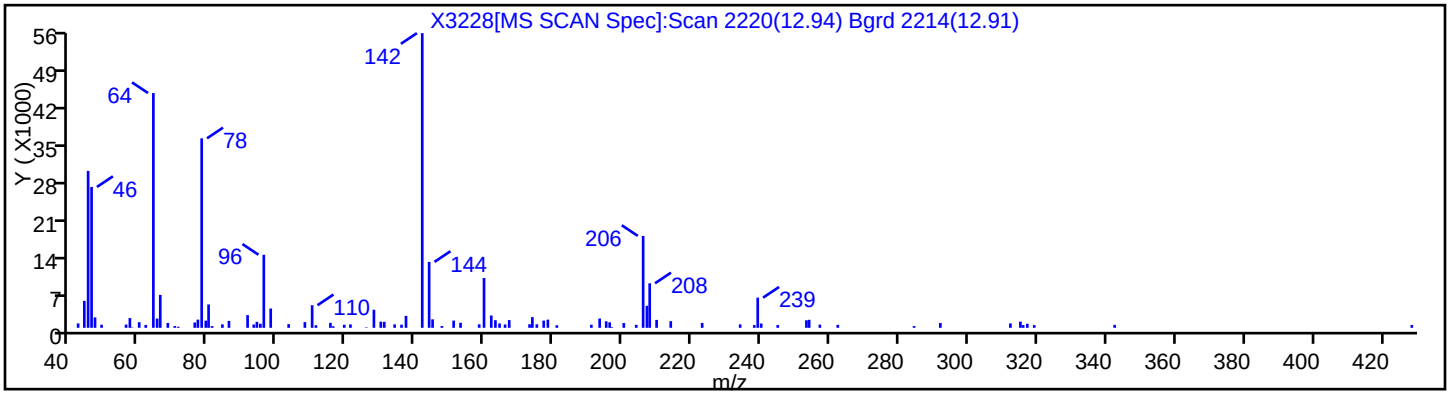


Report Date: 01-Mar-2013 16:46:18 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3228.D		
Injection Date:	21-Dec-2012 12:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-504-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	8
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

No Library Matches Found above the Threshold: 85

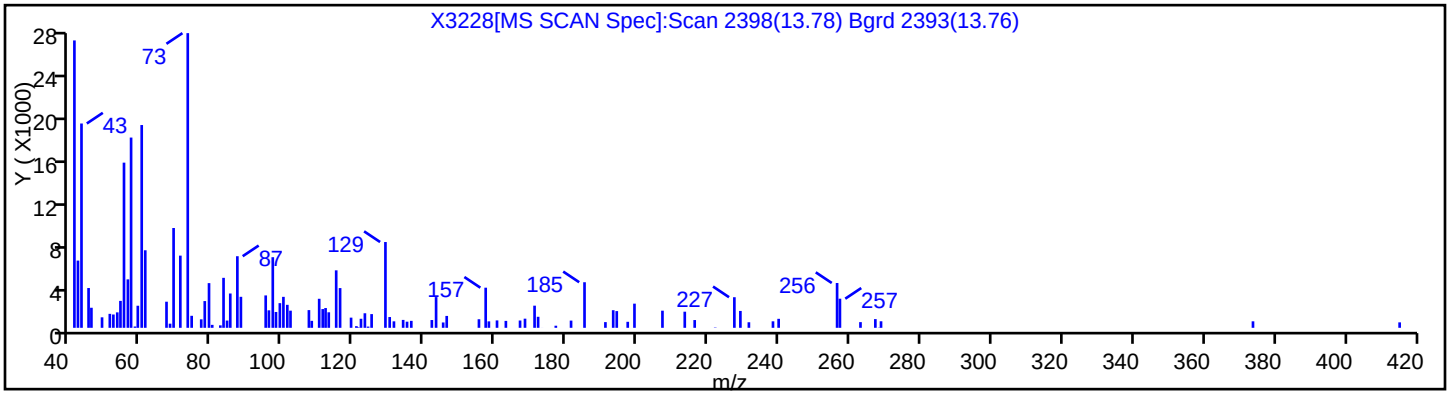


Report Date: 01-Mar-2013 16:46:18 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3228.D		
Injection Date:	21-Dec-2012 12:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-504-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	8
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

No Library Matches Found above the Threshold: 85

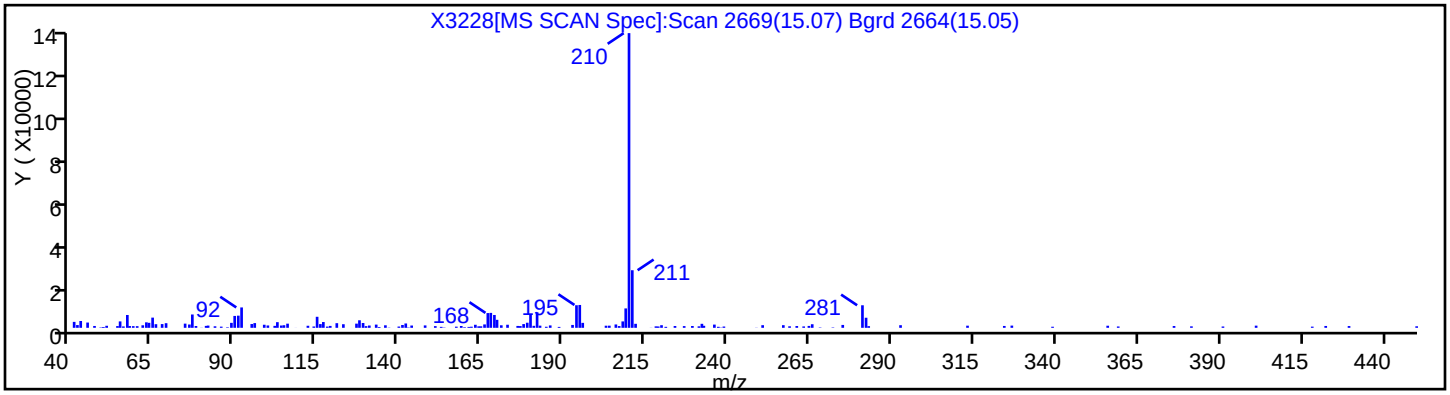


Report Date: 01-Mar-2013 16:46:18 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3228.D		
Injection Date:	21-Dec-2012 12:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-504-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	8
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

No Library Matches Found above the Threshold: 85

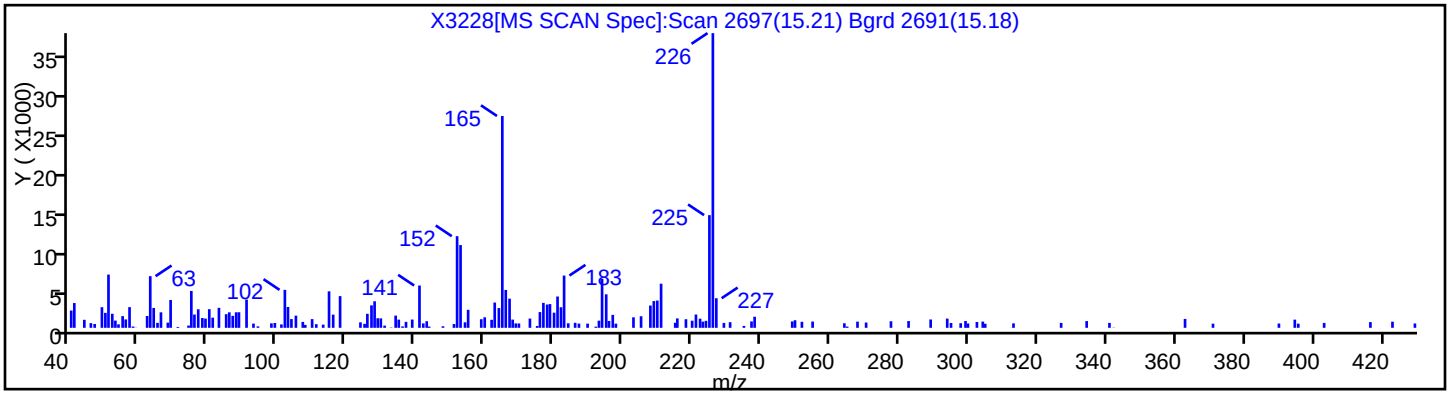


Report Date: 01-Mar-2013 16:46:18 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3228.D		
Injection Date:	21-Dec-2012 12:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-504-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	8
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

No Library Matches Found above the Threshold: 85



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-30406-1

SDG No.:

Client Sample ID: OC-SD-SD-501-XXX | Lab Sample ID: 480-30406-3

Matrix: Solid | Lab File ID: X3229.D

Analysis Method: 8270D | Date Collected: 12/17/2012 12:15

Extract. Method: 3546 | Date Extracted: 12/19/2012 09:46

Sample wt/vol: 000030.6(g) | Date Analyzed: 12/21/2012 13:11

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

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

% Moisture: 28.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 97046 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	ND		460	140
95-50-1	1,2-Dichlorobenzene	ND		460	140
541-73-1	1,3-Dichlorobenzene	ND		460	140
100-52-7	Benzaldehyde	1400		460	140
106-46-7	1,4-Dichlorobenzene	ND		460	140
108-60-1	2,2'-oxybis[1-chloropropane]	ND		460	140
95-95-4	2,4,5-Trichlorophenol	ND		460	150
88-06-2	2,4,6-Trichlorophenol	ND		460	190
100-51-6	Benzyl alcohol	ND		910	140
120-83-2	2,4-Dichlorophenol	ND		460	140
105-67-9	2,4-Dimethylphenol	ND		460	140
51-28-5	2,4-Dinitrophenol	ND	*	460	370
121-14-2	2,4-Dinitrotoluene	ND		460	140
100-01-6	4-Nitroaniline	ND		2300	380
606-20-2	2,6-Dinitrotoluene	ND		460	380
91-58-7	2-Chloronaphthalene	ND		460	140
95-57-8	2-Chlorophenol	ND		460	140
86-30-6	N-Nitrosodiphenylamine	ND		460	140
91-57-6	2-Methylnaphthalene	ND		460	140
95-48-7	2-Methylphenol	ND		460	140
88-75-5	2-Nitrophenol	ND		460	180
15831-10-4	3 & 4 Methylphenol	4300		460	140
91-94-1	3,3'-Dichlorobenzidine	ND		910	160
88-74-4	2-Nitroaniline	ND		2300	580
77-47-4	Hexachlorocyclopentadiene	ND		910	140
106-47-8	4-Chloroaniline	ND		910	410
100-02-7	4-Nitrophenol	ND	*	2300	190
83-32-9	Acenaphthene	ND		460	140
534-52-1	4,6-Dinitro-2-methylphenol	ND		2300	440
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		460	140
208-96-8	Acenaphthylene	ND		460	140
98-86-2	Acetophenone	150	J	460	140
62-53-3	Aniline	ND		460	140
120-12-7	Anthracene	ND		460	140

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-30406-1

SDG No.:

Client Sample ID: OC-SD-SD-501-XXX | Lab Sample ID: 480-30406-3

Matrix: Solid | Lab File ID: X3229.D

Analysis Method: 8270D | Date Collected: 12/17/2012 12:15

Extract. Method: 3546 | Date Extracted: 12/19/2012 09:46

Sample wt/vol: 000030.6(g) | Date Analyzed: 12/21/2012 13:11

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

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

% Moisture: 28.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 97046 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1912-24-9	Atrazine	ND		460	140
103-33-3	Azobenzene	ND	*	460	140
56-55-3	Benzo[a]anthracene	ND		460	140
50-32-8	Benzo[a]pyrene	ND		460	140
205-99-2	Benzo[b]fluoranthene	ND		460	140
191-24-2	Benzo[g,h,i]perylene	ND		460	140
105-60-2	Caprolactam	ND		460	140
99-09-2	3-Nitroaniline	ND		2300	140
207-08-9	Benzo[k]fluoranthene	ND		460	230
111-91-1	Bis(2-chloroethoxy)methane	ND		460	140
92-52-4	1,1'-Biphenyl	ND		460	140
111-44-4	Bis(2-chloroethyl)ether	ND		460	140
117-81-7	Bis(2-ethylhexyl) phthalate	ND		2300	920
85-68-7	Butyl benzyl phthalate	ND		460	140
218-01-9	Chrysene	ND		460	140
621-64-7	N-Nitrosodi-n-propylamine	ND		460	140
65-85-0	Benzoic acid	ND		2300	210
53-70-3	Dibenz(a,h)anthracene	ND		460	140
132-64-9	Dibenzofuran	ND		460	140
84-66-2	Diethyl phthalate	ND		460	150
131-11-3	Dimethyl phthalate	ND		460	140
84-74-2	Di-n-butyl phthalate	ND		2300	690
117-84-0	Di-n-octyl phthalate	ND		460	140
101-84-8	Phenyl ether	ND		460	140
58-90-2	2,3,4,6-Tetrachlorophenol	ND		460	140
206-44-0	Fluoranthene	210	J	460	140
59-50-7	4-Chloro-3-methylphenol	ND		910	140
86-73-7	Fluorene	ND		460	140
7005-72-3	4-Chlorophenyl phenyl ether	ND		460	140
118-74-1	Hexachlorobenzene	ND		460	140
87-68-3	Hexachlorobutadiene	ND		460	140
67-72-1	Hexachloroethane	ND		460	140
193-39-5	Indeno[1,2,3-cd]pyrene	ND		460	140
78-59-1	Isophorone	ND		460	140

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-30406-1

SDG No.:

Client Sample ID: OC-SD-SD-501-XXX | Lab Sample ID: 480-30406-3

Matrix: Solid | Lab File ID: X3229.D

Analysis Method: 8270D | Date Collected: 12/17/2012 12:15

Extract. Method: 3546 | Date Extracted: 12/19/2012 09:46

Sample wt/vol: 000030.6(g) | Date Analyzed: 12/21/2012 13:11

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

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

% Moisture: 28.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 97046 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-20-3	Naphthalene	ND		460	140
98-95-3	Nitrobenzene	ND		460	140
87-86-5	Pentachlorophenol	ND		460	140
85-01-8	Phenanthrene	ND		460	140
119-61-9	Benzophenone	ND		460	140
108-95-2	Phenol	1700		460	140
129-00-0	Pyrene	180	J	460	140
62-75-9	N-Nitrosodimethylamine	ND		460	140
86-74-8	Carbazole	ND		460	140
90-12-0	1-Methylnaphthalene	ND		460	140
106-44-5	4-Methylphenol	4300		460	140

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	0	X	30-130
367-12-4	2-Fluorophenol	0	X	30-130
4165-60-0	Nitrobenzene-d5	0	X	30-130
4165-62-2	Phenol-d5	0	X	30-130
321-60-8	2-Fluorobiphenyl	0	X	30-130
1718-51-0	p-Terphenyl-d14	50		30-130

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo | Job No.: 480-30406-1

SDG No.:

Client Sample ID: OC-SD-SD-501-XXX | Lab Sample ID: 480-30406-3

Matrix: Solid | Lab File ID: X3229.D

Analysis Method: 8270D | Date Collected: 12/17/2012 12:15

Extract. Method: 3546 | Date Extracted: 12/19/2012 09:46

Sample wt/vol: 000030.6(g) | Date Analyzed: 12/21/2012 13:11

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

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

% Moisture: 28.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 97046 | Units: ug/Kg

Number TICs Found: 10 | TIC Result Total: 16650

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown	4.15	6600	T J
95-47-6	Benzene, 1,2-dimethyl-	4.63	1500	T J N
	Unknown	8.53	620	T J
	Unknown	9.81	1400	T J
57-10-3	n-Hexadecanoic acid	13.78	1500	T J N
	Unknown	14.47	1300	T J
	Unknown	15.20	840	T J
	Unknown	15.49	990	T J
630-3-5	Nonacosane	17.31	900	T J N
	Unknown	18.61	1000	T J

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3229.D		
Lims ID:	480-30406-C-3-A	Client ID:	OC-SD-SD-501-XXX
Inject. Date:	21-Dec-2012 13:11:30	Dil. Factor:	10.0000
Sample Type:	Client		
Sample ID:	480-0017772-009		
Misc. Info.:			
Operator:	ANM	Instrument ID:	HP5973X
Injection Vol:	1.0 ul	ALS Bottle#:	10
Lims Batch ID:	97046	Lims Sample ID:	9
Detector:	MS SCAN		

Method:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X-8270LL.m		
Last Update:	01-Mar-2013 16:46:14	Calib Date:	18-Dec-2012 14:44:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3139.D		
Limit Group:	MB - 8270RCP_MCP ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm
Process Host:	XAWRK018		

First Level Reviewer: mckernar Date: 21-Dec-2012 13:47:17

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.551	6.599	-0.048	82	142880	5.00	
* 2 Naphthalene-d8	136	8.458	8.491	-0.033	98	598492	5.00	
* 3 Acenaphthene-d10	164	11.107	11.107	0.0	90	352142	5.00	
* 4 Phenanthrene-d10	188	13.123	13.114	0.009	96	598673	5.00	
* 5 Chrysene-d12	240	15.767	15.767	0.0	94	521561	5.00	
* 6 Perylene-d12	264	17.056	17.056	0.0	98	541623	5.00	
$ 7 2-Fluorophenol	112		4.677					9
$ 8 Phenol-d5	99		6.109					9
$ 9 Nitrobenzene-d5	82		7.431					9
$ 10 2-Fluorobiphenyl	172		10.122					9
$ 11 2,4,6-Tribromophenol	330		12.262					9
$ 12 p-Terphenyl-d14	244	14.797	14.792	0.005	78	10041	0.0998	
19 N-Nitrosodimethylamine	42		2.785					
21 Benzaldehyde	77	5.909	5.952	-0.043	87	84972	3.03	
23 Aniline	93		6.118					
22 Phenol	94	6.104	6.128	-0.024	50	160373	3.68	
24 Bis(2-chloroethyl)ether	93		6.223					
25 2-Chlorophenol	128		6.289					1
26 1,3-Dichlorobenzene	146		6.508					
27 1,4-Dichlorobenzene	146		6.622					
28 Benzyl alcohol	108		6.841					
29 1,2-Dichlorobenzene	146		6.841					
31 2-Methylphenol	108		7.027					9
32 2,2'-oxybis[1-chloropropane]	45		7.036					
35 DFTPP								
33 Acetophenone	105	7.193	7.217	-0.024	60	17564	0.3315	M
34 N-Nitrosodi-n-propylamine	70		7.222					149
36 4-Methylphenol	108	7.226	7.274	-0.048	82	296603	9.43	
37 Hexachloroethane	117		7.336					19
38 Nitrobenzene	77		7.464					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
40 Isophorone	82		7.826					
41 2-Nitrophenol	139		7.940					
43 2,4-Dimethylphenol	107		8.054					
45 Bis(2-chloroethoxy)methane	93		8.173					14
44 Benzoic acid	105		8.235					
47 2,4-Dichlorophenol	162		8.325					9
48 1,2,4-Trichlorobenzene	180		8.410					
49 Naphthalene	128		8.520					9
51 4-Chloroaniline	127		8.648					149
52 Hexachlorobutadiene	225		8.715					
54 Caprolactam	113		9.186					
55 4-Chloro-3-methylphenol	107		9.438					1
56 2-Methylnaphthalene	142		9.561					
57 1-Methylnaphthalene	142		9.704					
58 Hexachlorocyclopentadiene	237		9.794					
59 1,2,4,5-Tetrachlorobenzene	216		9.813					
60 2,4,6-Trichlorophenol	196		10.018					
61 2,4,5-Trichlorophenol	196		10.108					
62 1,1'-Biphenyl	154		10.265					
63 2-Chloronaphthalene	162		10.313					9
64 Phenyl ether	170		10.427					
65 2-Nitroaniline	65		10.484					
67 Dimethyl phthalate	163		10.764					9
68 2,6-Dinitrotoluene	165		10.850					
69 Acenaphthylene	152		10.898					9
70 3-Nitroaniline	138		11.116					
71 Acenaphthene	153	11.159	11.154	0.005	0	4605	0.0537	M
72 2,4-Dinitrophenol	184		11.288					
73 Dibenzofuran	168		11.421					
74 2,4-Dinitrotoluene	165		11.459					
75 4-Nitrophenol	109		11.492					
76 2,3,4,6-Tetrachlorophenol	232		11.640					
78 Diethyl phthalate	149		11.811					
79 Fluorene	166		11.920					9
80 4-Chlorophenyl phenyl ether	204		11.939					
81 4-Nitroaniline	138		12.025					
82 4,6-Dinitro-2-methylphenol	198		12.048					
83 N-Nitrosodiphenylamine	169		12.115					
85 Azobenzene	77		12.153					
86 Benzophenone	105		12.177					
89 4-Bromophenyl phenyl ether	248		12.581					
91 Hexachlorobenzene	284		12.643					9
93 Atrazine	200		12.833					9
94 Pentachlorophenol	266		12.914					
97 Phenanthrene	178	13.152	13.142	0.010	50	37983	0.2846	
98 Anthracene	178	13.228	13.204	0.024	27	9150	0.0673	
99 Carbazole	167	13.432	13.413	0.019	65	5440	0.0432	
102 Di-n-butyl phthalate	149		13.799					9
104 Fluoranthene	202	14.436	14.422	0.014	90	60555	0.4583	
106 Pyrene	202	14.659	14.645	0.014	93	55997	0.4007	
108 Butyl benzyl phthalate	149		15.244					
110 Bis(2-ethylhexyl) phthalate	149	15.734	15.739	-0.005	77	28361	0.2666	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
109 3,3'-Dichlorobenzidine	252		15.739					
111 Benzo[a]anthracene	228		15.753					
112 Chrysene	228	15.796	15.791	0.005	11	24886	0.1952	
113 Di-n-octyl phthalate	149		16.281					9
114 Benzo[b]fluoranthene	252	16.704	16.695	0.009	56	35384	0.2813	
115 Benzo[k]fluoranthene	252	16.728	16.718	0.010	28	19930	0.1538	
116 Benzo[a]pyrene	252		17.004					
117 Indeno[1,2,3-cd]pyrene	276		18.155					
118 Dibenz(a,h)anthracene	278		18.155					
119 Benzo[g,h,i]perylene	276		18.473					
S 120 3 & 4 Methylphenol	108		0.000					

QC Flag Legend

Processing Flags
1 - Missing Peaks
4 - Failed Signal Ratio Test
9 - Failed A Reference Spectral Test

Review Flags
M - Manually Integrated

TestAmerica Buffalo
Tentatively Identified Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3229.D		
Lims ID:	480-30406-C-3-A	Client ID:	OC-SD-SD-501-XXX
Inject. Date:	21-Dec-2012 13:11:30	Dil. Factor:	10.0000
Sample Type:	Client		
Sample ID:	480-0017772-009		
Misc. Info.:			
Operator:	ANM	Instrument ID:	HP5973X
Injection Vol:	1.0 ul	ALS Bottle#:	10
Lims Batch ID:	97046	Lims Sample ID:	9
Detector:	MS SCAN		
Method:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X-8270LL.m		
Last Update:	01-Mar-2013 16:46:14	Calib Date:	18-Dec-2012 14:44:30
Tic RT Window:	1.500 -0.000	Response:	area
Quant By:	Nearest ISTD	Quant LOD:	10.00000
MS Library:	\\Bufchrom\ChromData\Database\NIST98.L		
Min. Match:	85		
Process Host:	XAWRK018		
First Level Reviewer: mckernar		Date:	21-Dec-2012 13:47:17

Tentative Identified Compound Results

RT	Response	Amount ng/uL	Quant Cpnd	Qual	Lib Entry	Flags
		Unknown				
4.149	3173766	14.4	1			
95-47-6		Benzene, 1,2-dimethyl-				
4.630	708844	3.22	1	95	37719	
		Unknown				
8.534	382146	1.35	2			
		Unknown				
9.808	1048488	2.99	3			
57-10-3		n-Hexadecanoic acid				
13.784	1139531	3.20	4	86	114901	
		Unknown				
14.469	1012573	2.76	5			
		Unknown				
15.201	671364	1.83	5			
		Unknown				
15.491	795069	2.17	5			
630-3-5		Nonacosane				
17.313	588467	1.97	6	93	16414	
		Unknown				
18.611	679363	2.27	6			

Quantitation Compounds

Compound	RT	Response	Amount ng/uL

Report Date: 01-Mar-2013 16:46:19 Chrom Revision: 2.0 01-Feb-2013 10:03:10
Data File: \\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3229.D

Compound	RT	Response	Amount ng/uL
* 1 1,4-Dichlorobenzene-d4	6.551	1099637	5.00
* 2 Naphthalene-d8	8.458	1411626	5.00
* 3 Acenaphthene-d10	11.107	1755467	5.00
* 4 Phenanthrene-d10	13.123	1779580	5.00
* 5 Chrysene-d12	15.767	1831923	5.00
* 6 Perylene-d12	17.051	1496771	5.00

QC Flag Legend

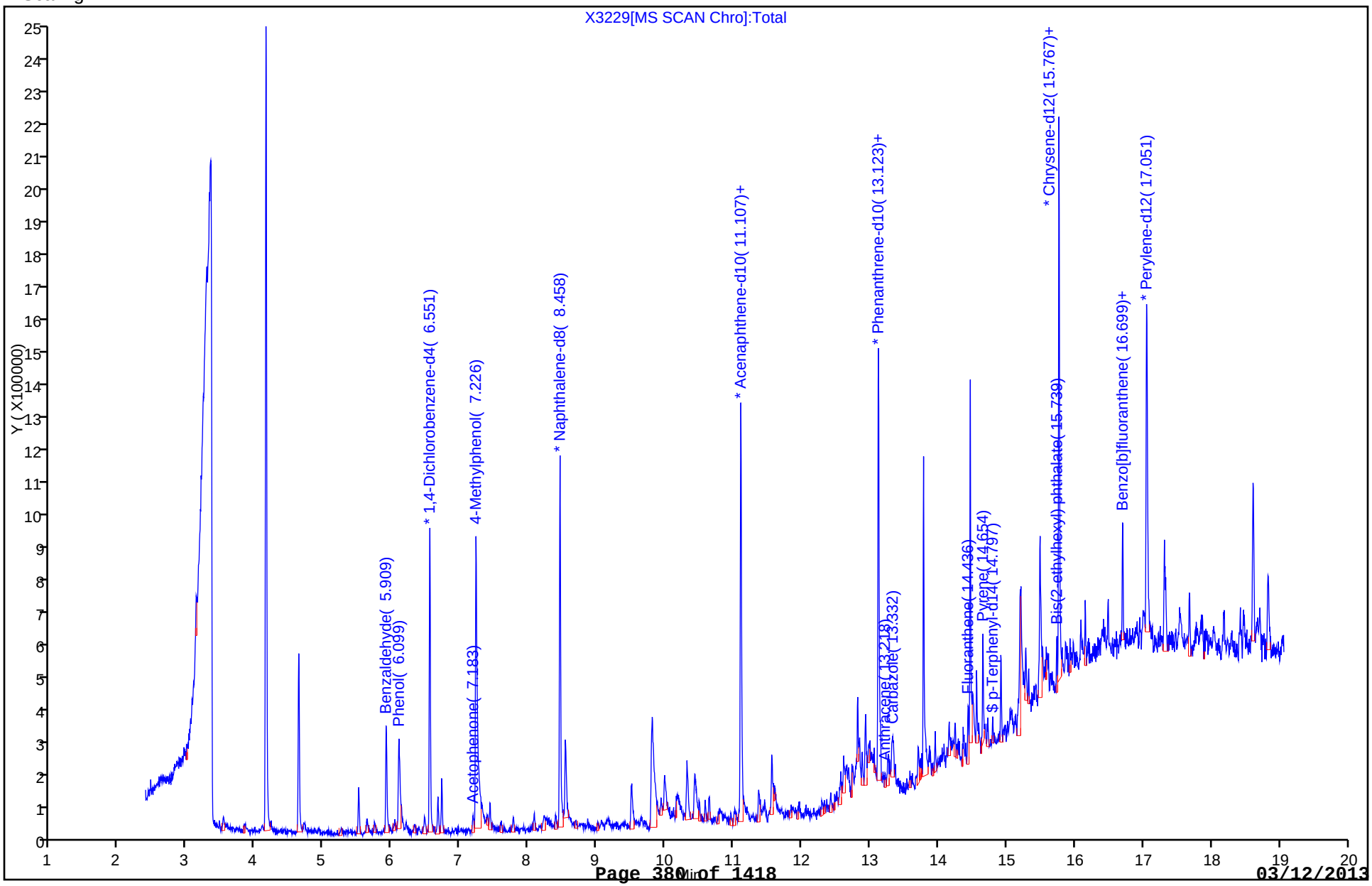
Processing Flags

Report Date: 01-Mar-2013 16:46:19 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3229.D		
Injection Date:	21-Dec-2012 13:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-501-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	9
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Y Scaling:

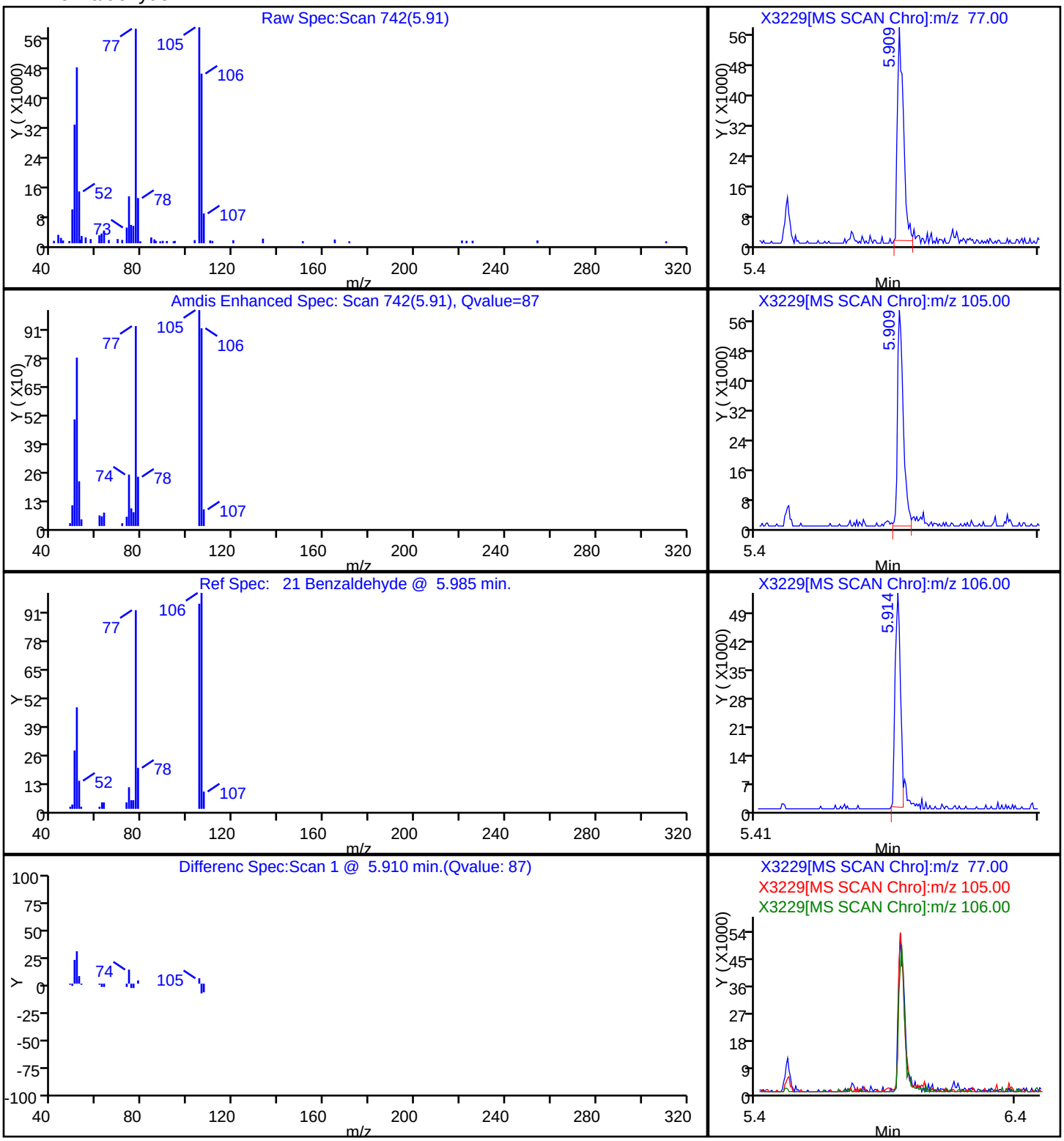


Report Date: 01-Mar-2013 16:46:19 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3229.D		
Injection Date:	21-Dec-2012 13:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-501-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	9
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

21 Benzaldehyde

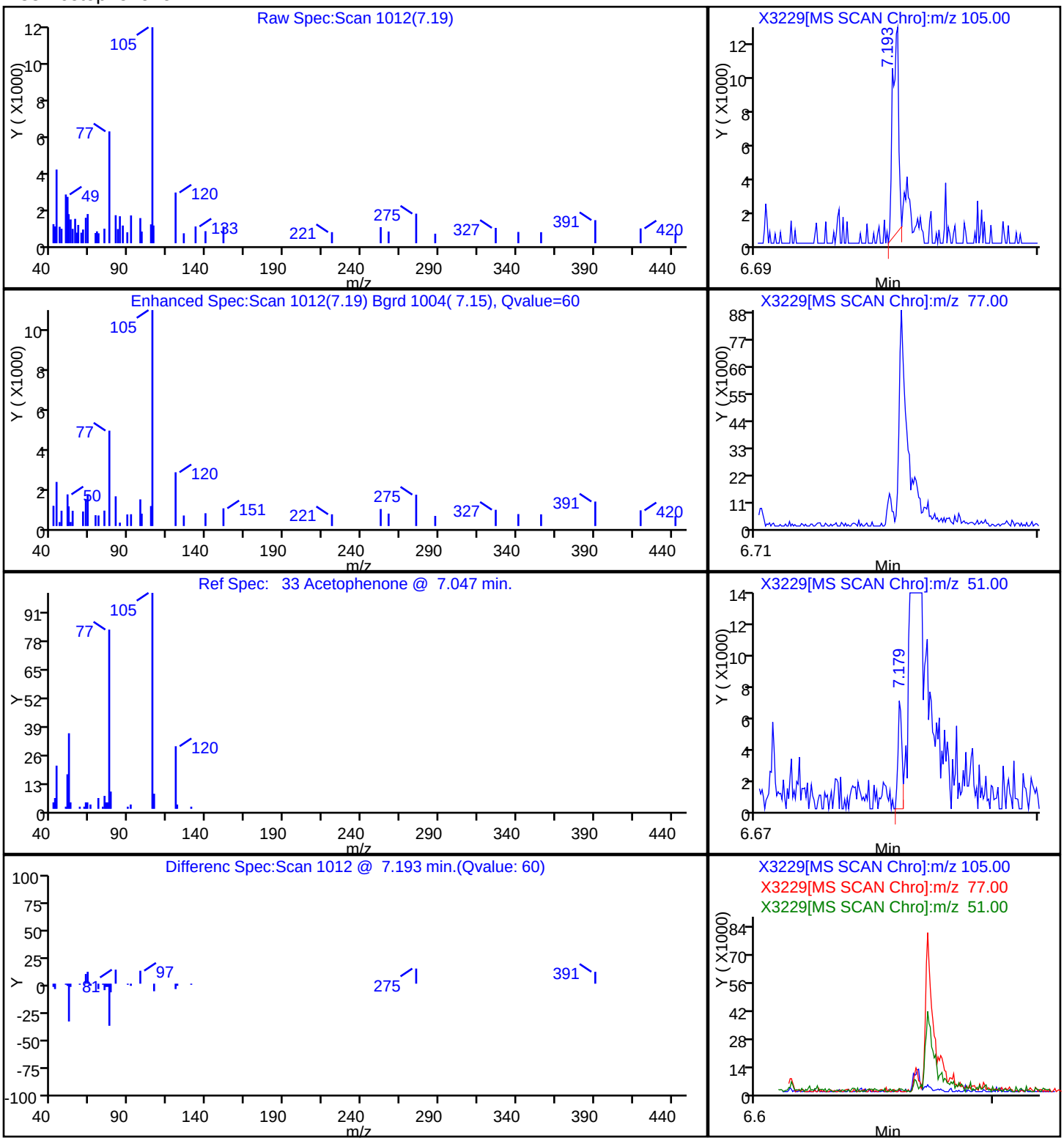


Report Date: 01-Mar-2013 16:46:19 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3229.D		
Injection Date:	21-Dec-2012 13:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-501-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	9
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

33 Acetophenone

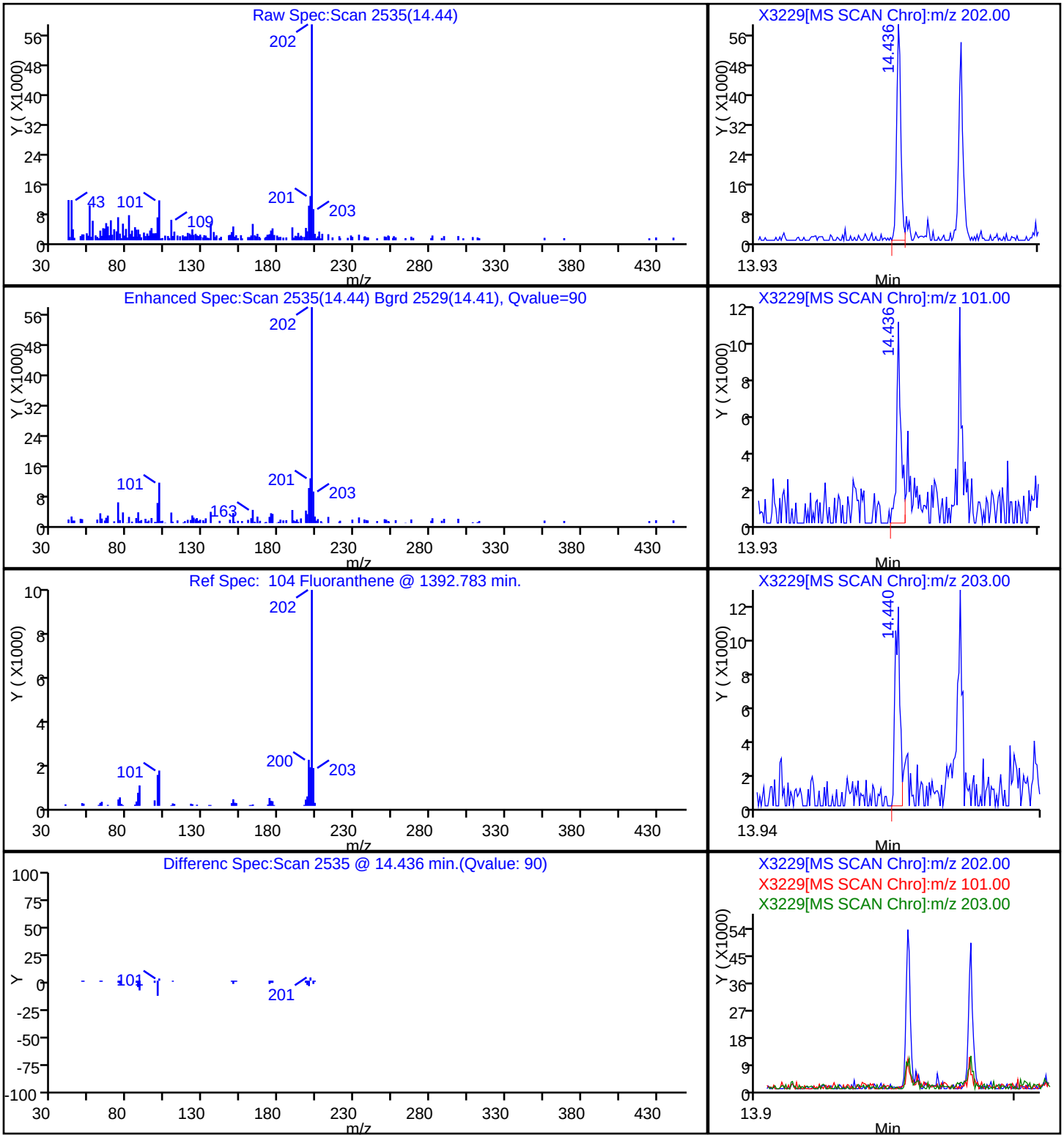


Report Date: 01-Mar-2013 16:46:20 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3229.D		
Injection Date:	21-Dec-2012 13:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-501-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	9
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

104 Fluoranthene

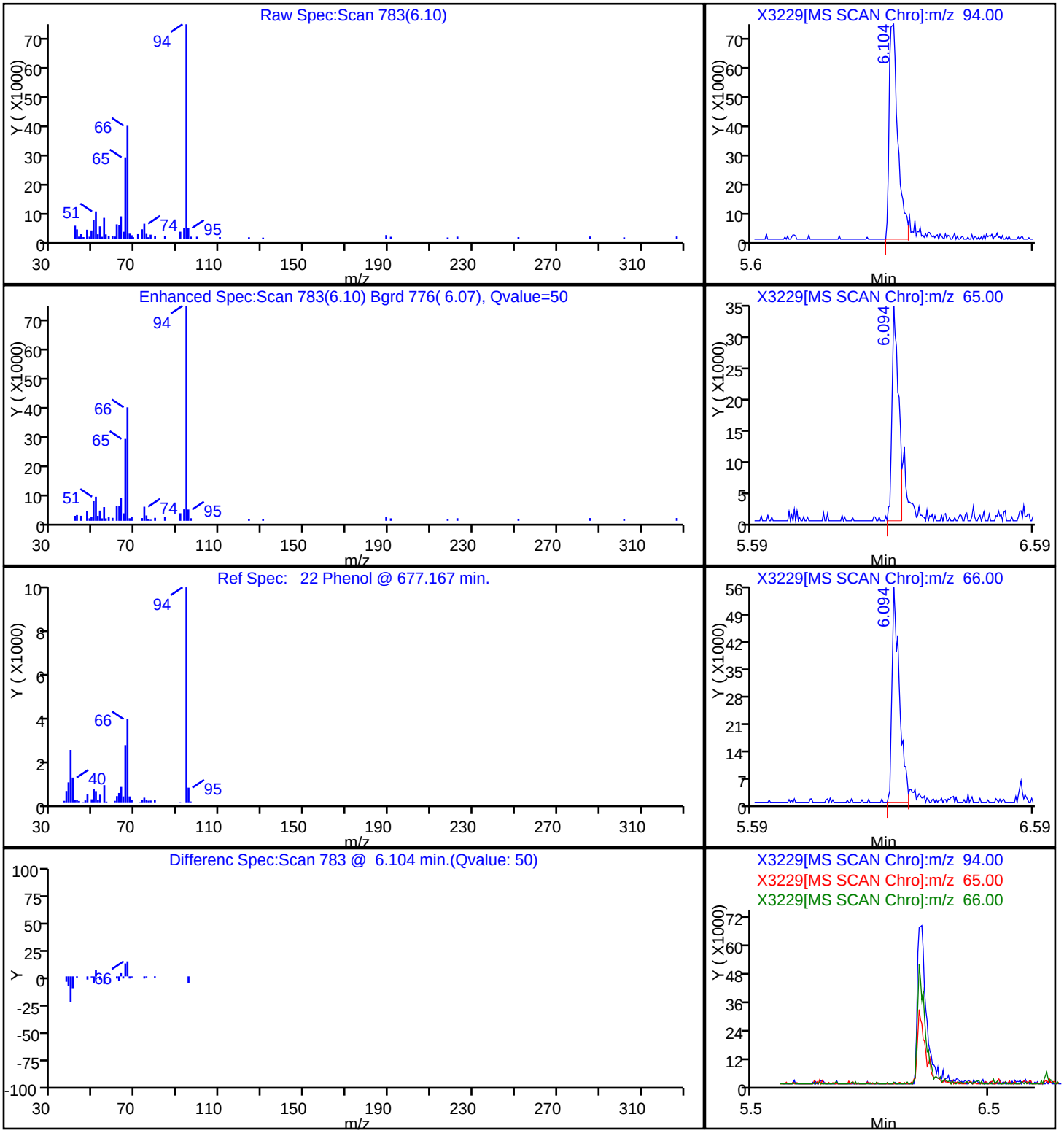


Report Date: 01-Mar-2013 16:46:19 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3229.D		
Injection Date:	21-Dec-2012 13:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-501-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	9
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

22 Phenol

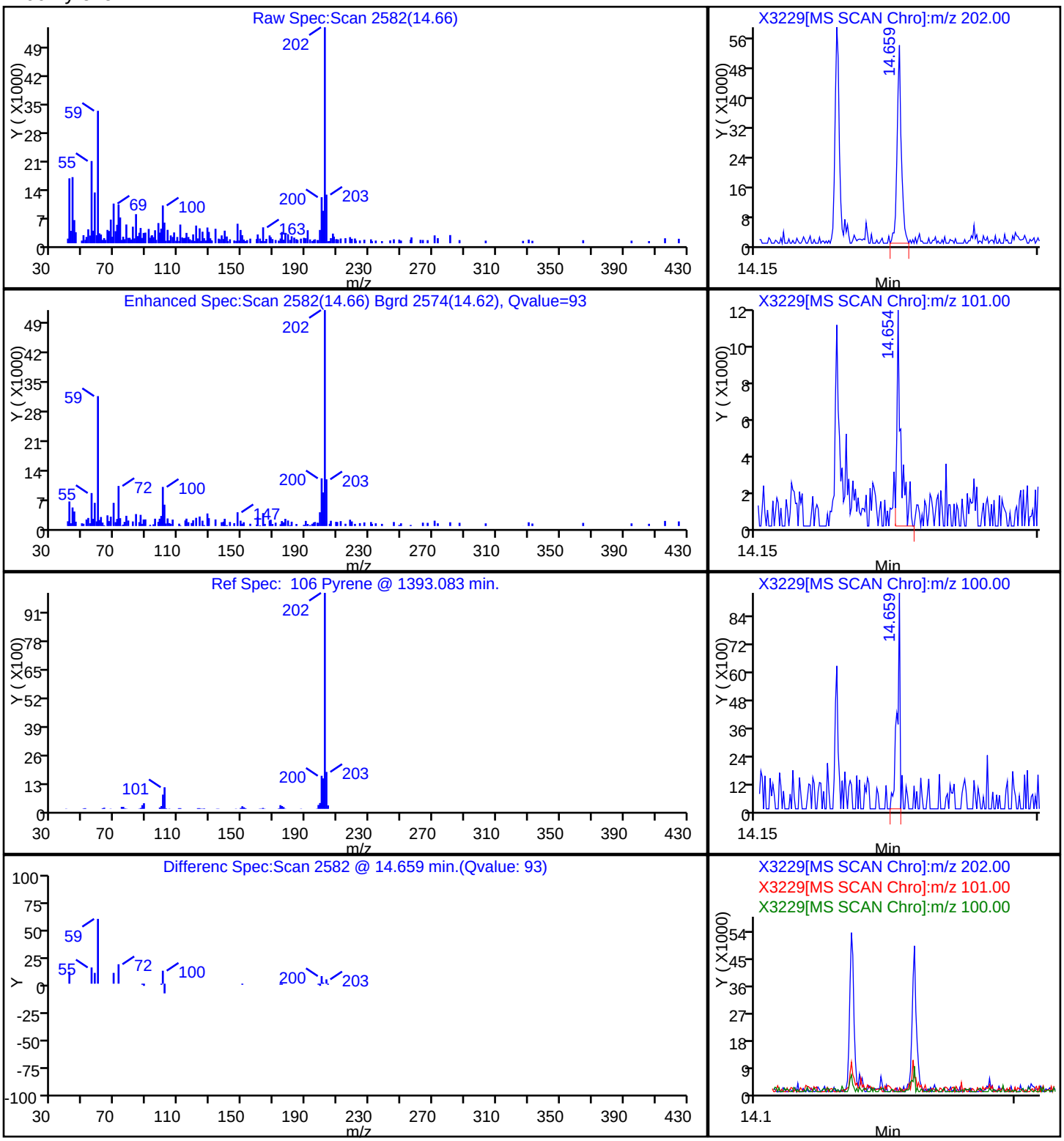


Report Date: 01-Mar-2013 16:46:20 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3229.D		
Injection Date:	21-Dec-2012 13:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-501-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	9
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

106 Pyrene

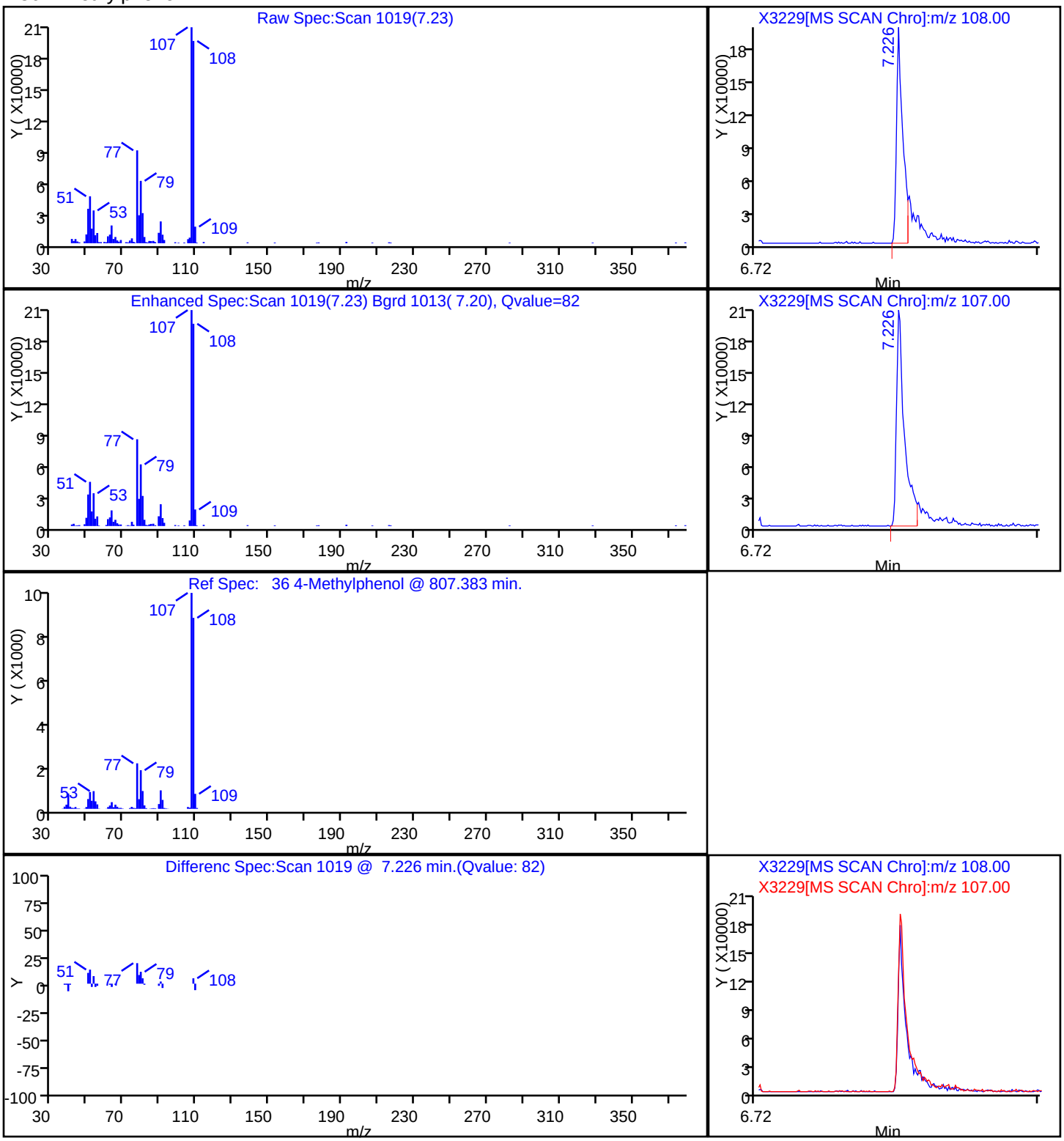


Report Date: 01-Mar-2013 16:46:19 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3229.D		
Injection Date:	21-Dec-2012 13:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-501-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	9
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

36 4-Methylphenol



Manual Integration/User Assign Peak Report

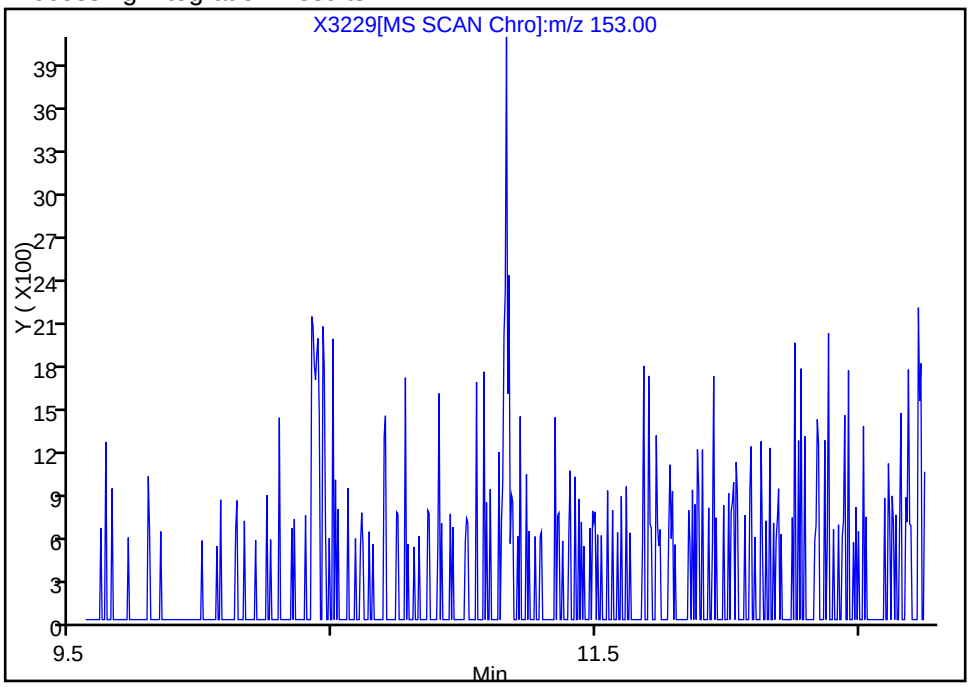
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3229.D		
Injection Date:	21-Dec-2012 13:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-501-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	9
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

71 Acenaphthene, Signal: 1, m/z: 153.0 Type: quant, RT: 11.15

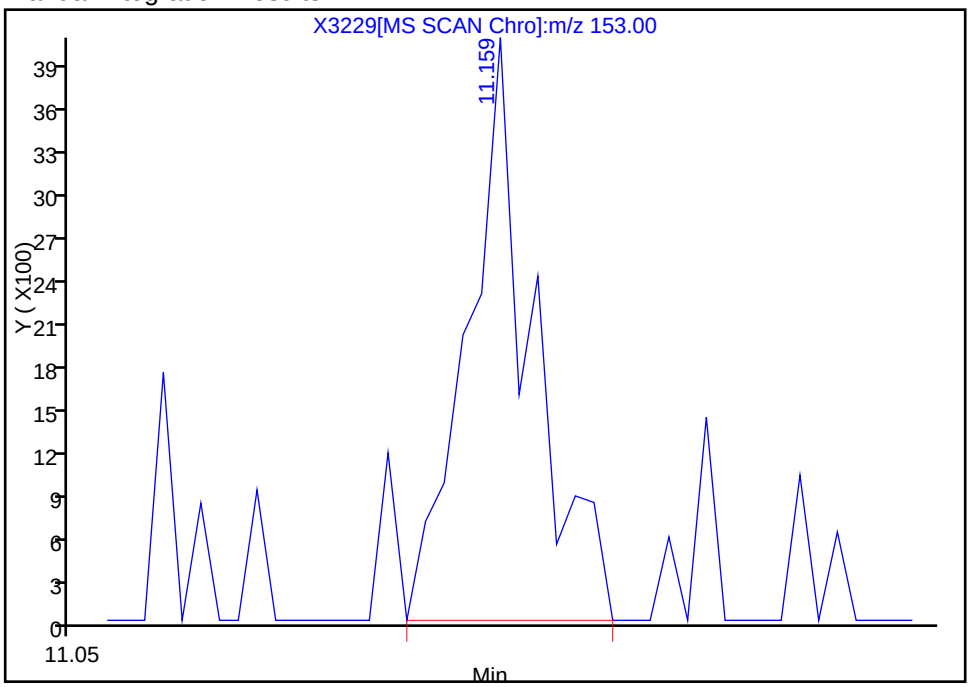
Processing Integration Results

Not Detected
Expected RT: 11.15



Manual Integration Results

RT: 11.16
Response: 4605
Amount: 0.053690



Reviewer: mckernar, 21-Dec-2012 13:47:17
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

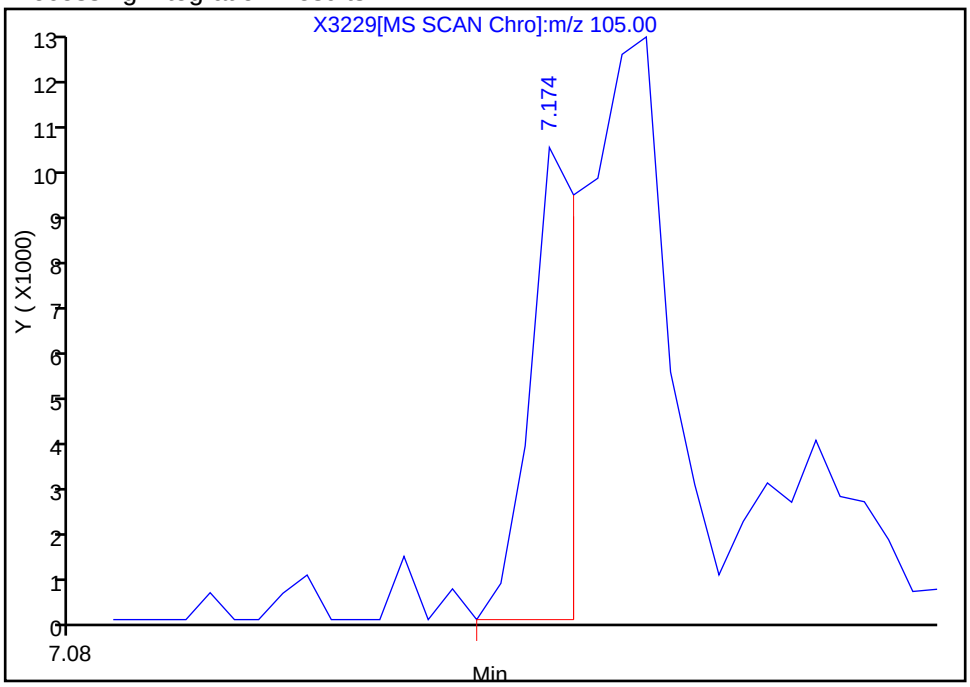
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3229.D		
Injection Date:	21-Dec-2012 13:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-501-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	9
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

33 Acetophenone, Signal: 1, m/z: 105.0 Type: quant, RT: 7.22

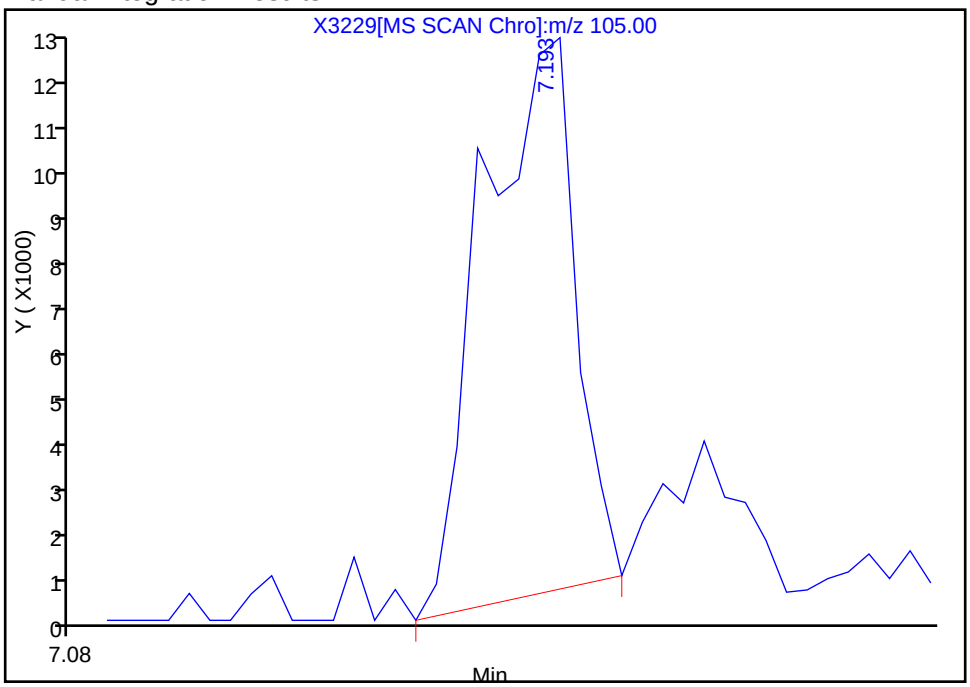
Processing Integration Results

RT: 7.17
Response: 6755
Amount: 0.109490



Manual Integration Results

RT: 7.19
Response: 17564
Amount: 0.331468



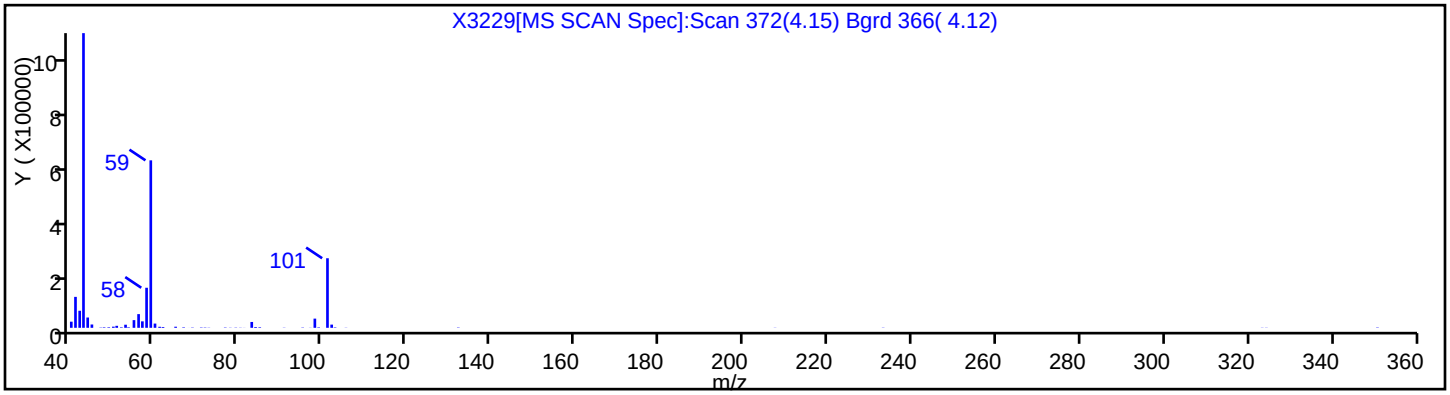
Reviewer: mckernar, 21-Dec-2012 13:47:17
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 01-Mar-2013 16:46:20 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3229.D		
Injection Date:	21-Dec-2012 13:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-501-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	9
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

No Library Matches Found above the Threshold: 85

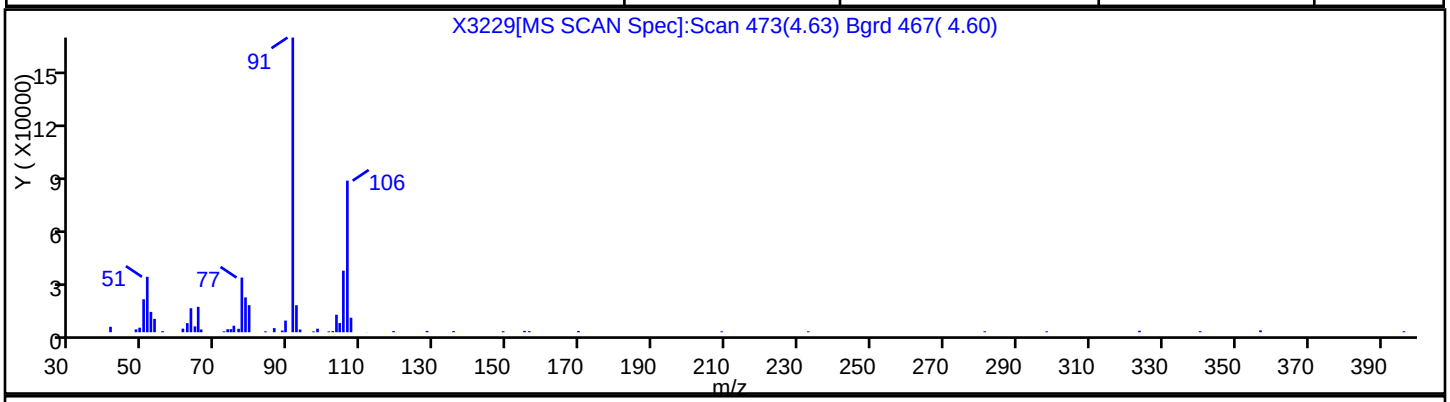


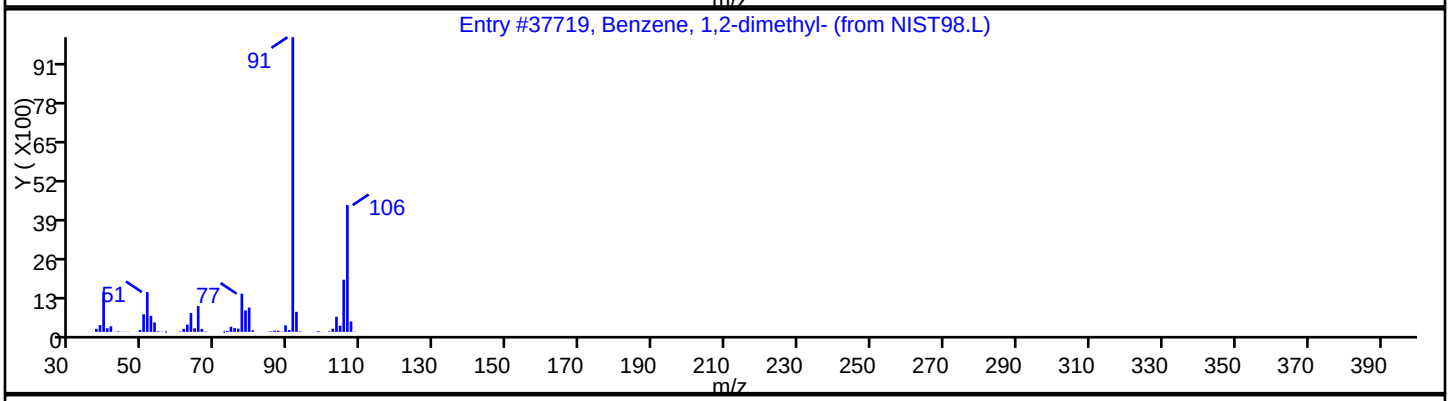
Report Date: 01-Mar-2013 16:46:20 Chrom Revision: 2.0 01-Feb-2013 10:03:10

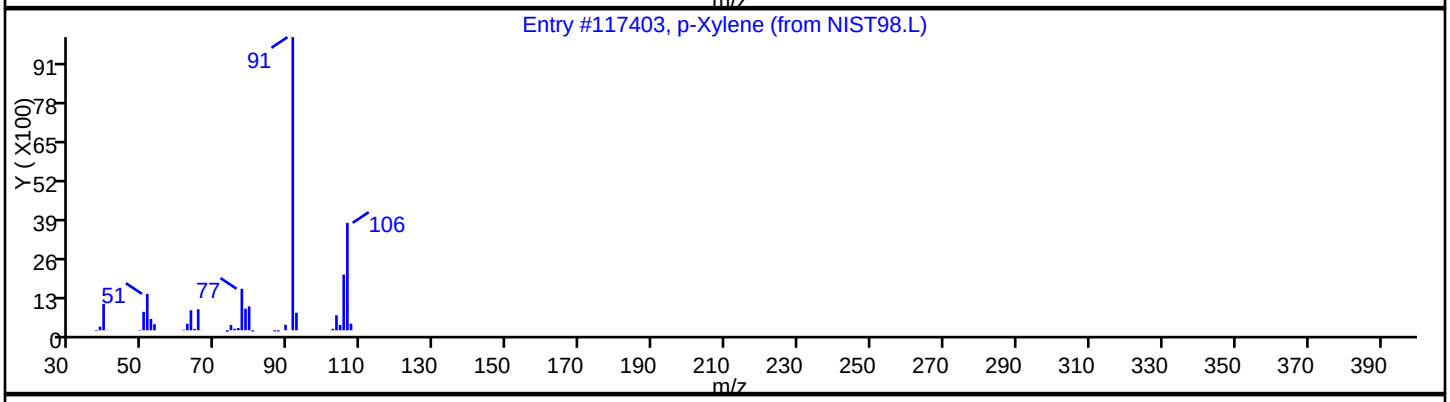
TestAmerica Buffalo

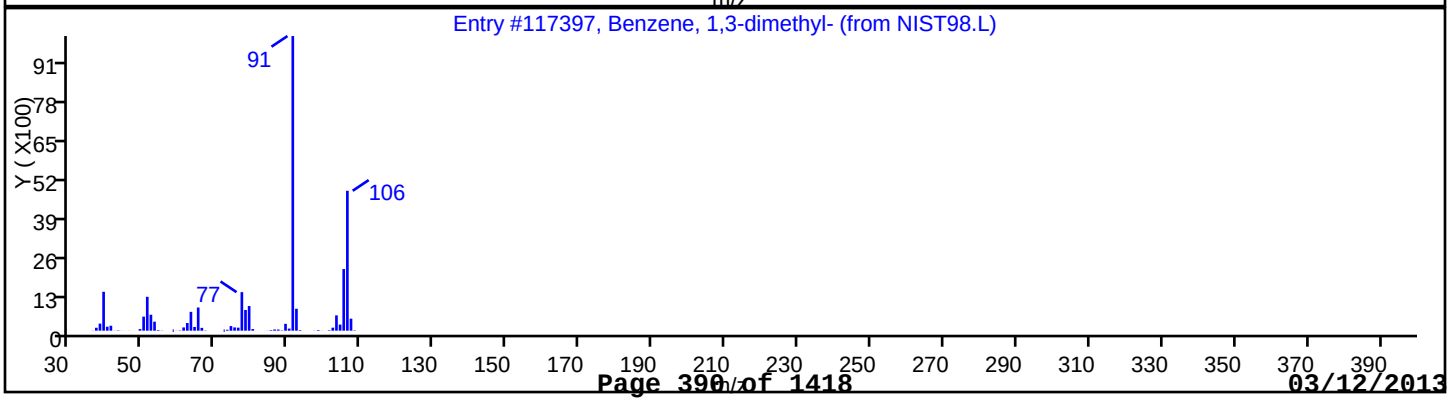
Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3229.D		
Injection Date:	21-Dec-2012 13:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-501-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	9
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Benzene, 1,2-dimethyl-	95-47-6	NIST98.L	37719	95
p-Xylene	106-42-3	NIST98.L	117403	94
Benzene, 1,3-dimethyl-	108-38-3	NIST98.L	117397	94







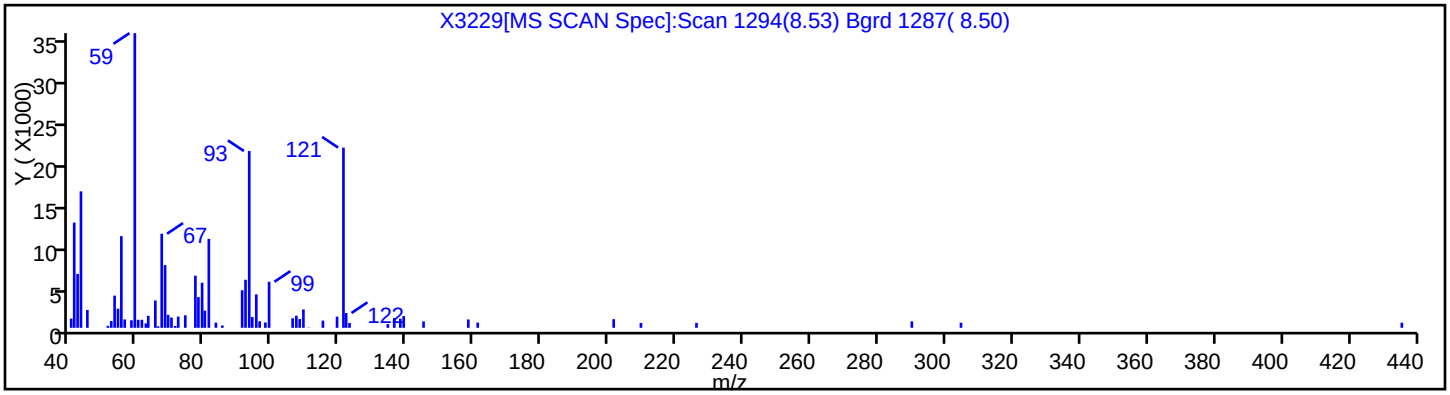


Report Date: 01-Mar-2013 16:46:20 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3229.D		
Injection Date:	21-Dec-2012 13:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-501-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	9
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

No Library Matches Found above the Threshold: 85

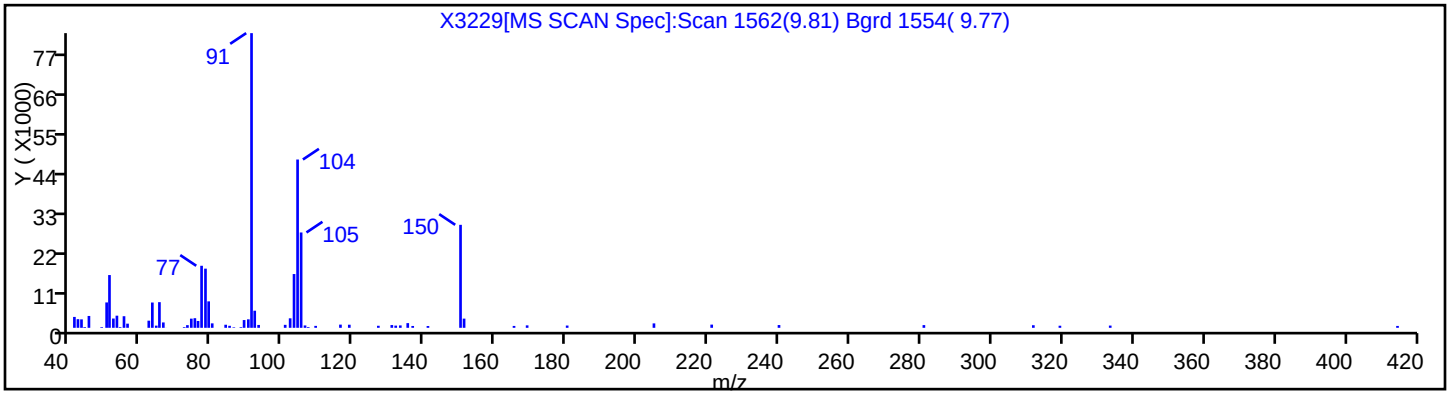


Report Date: 01-Mar-2013 16:46:20 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3229.D		
Injection Date:	21-Dec-2012 13:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-501-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	9
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

No Library Matches Found above the Threshold: 85

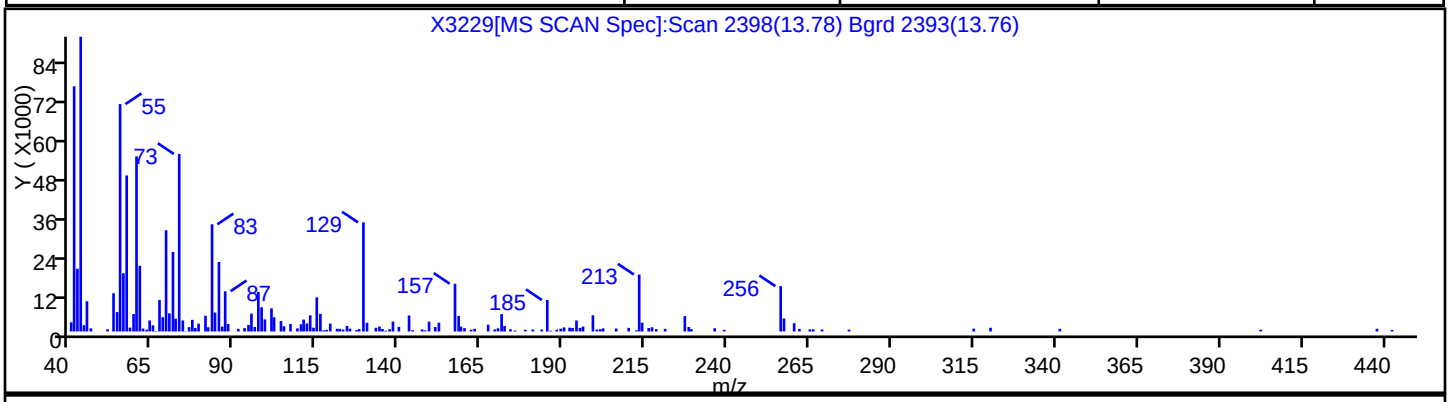


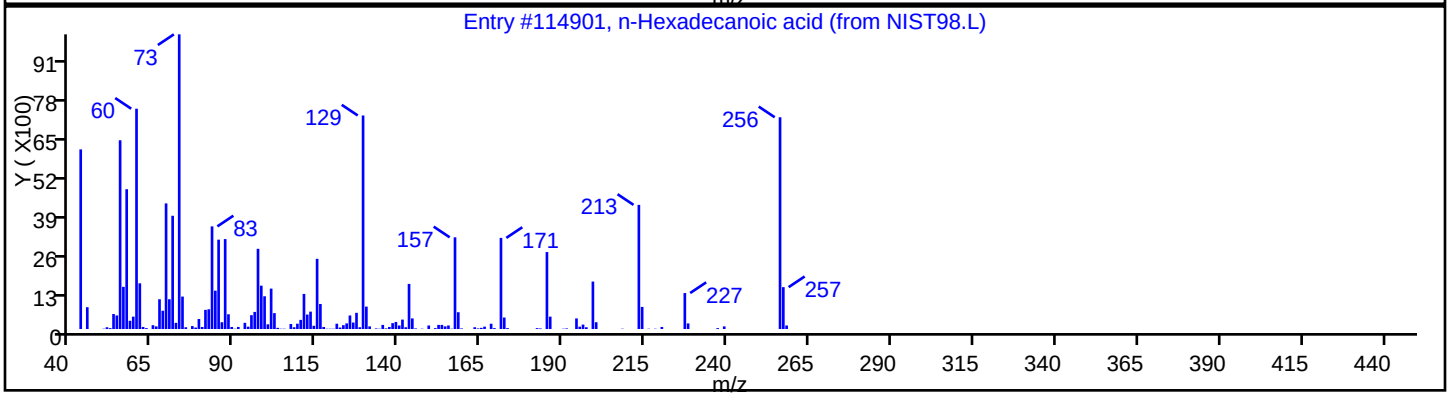
Report Date: 01-Mar-2013 16:46:20 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3229.D		
Injection Date:	21-Dec-2012 13:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-501-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	9
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
n-Hexadecanoic acid	57-10-3	NIST98.L	114901	86



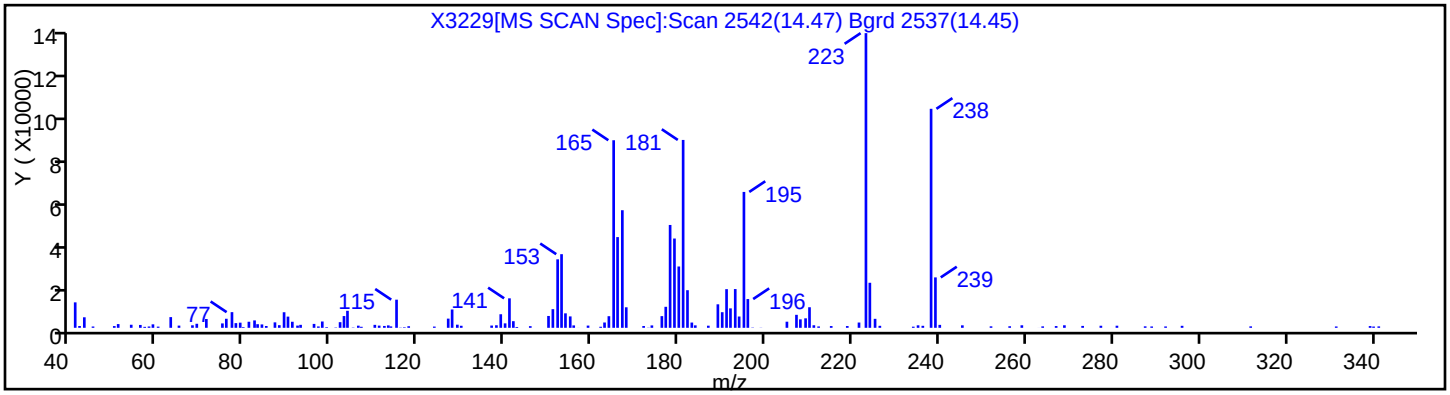


Report Date: 01-Mar-2013 16:46:20 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3229.D		
Injection Date:	21-Dec-2012 13:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-501-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	9
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

No Library Matches Found above the Threshold: 85

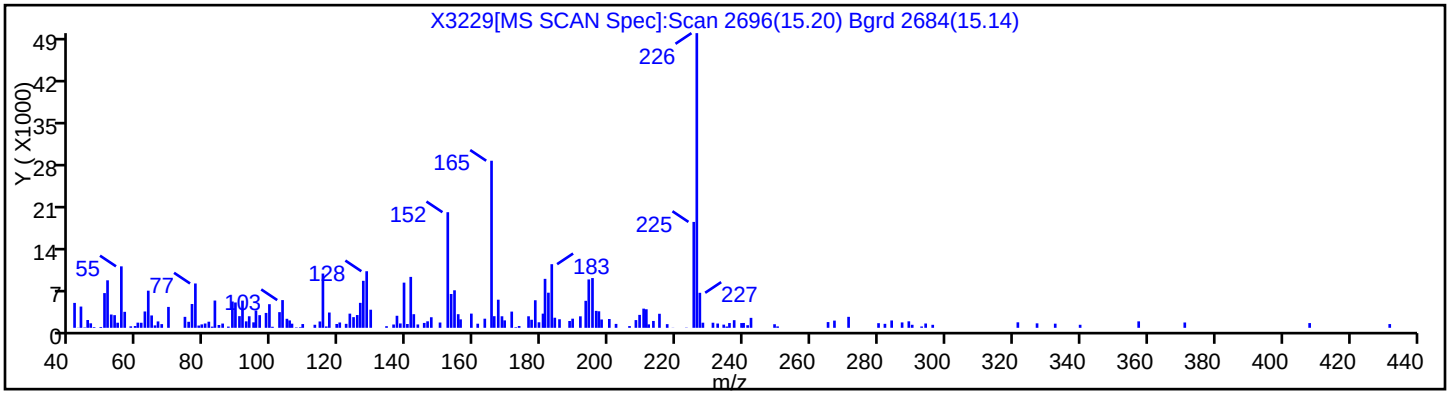


Report Date: 01-Mar-2013 16:46:20 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3229.D		
Injection Date:	21-Dec-2012 13:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-501-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	9
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

No Library Matches Found above the Threshold: 85

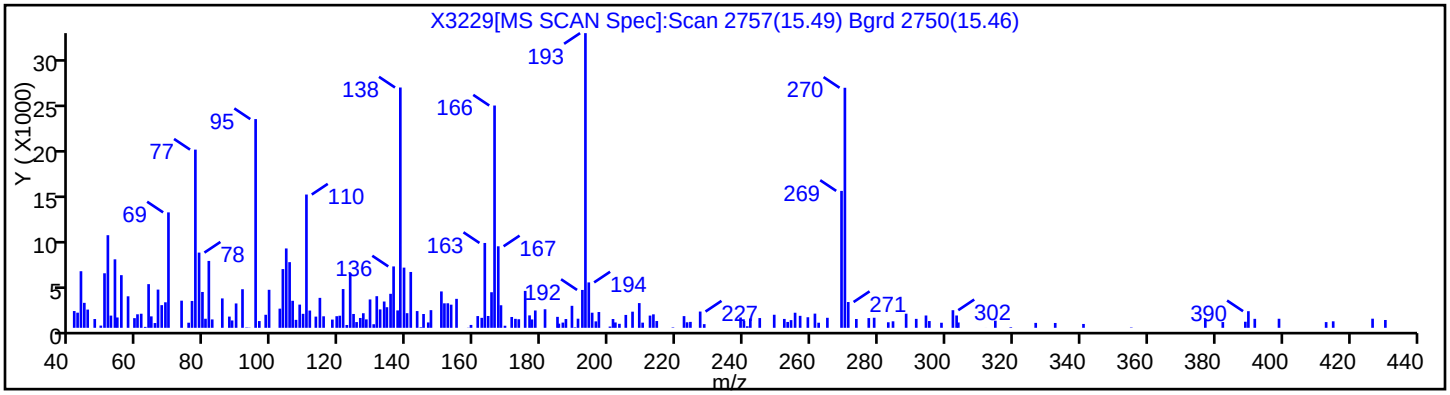


Report Date: 01-Mar-2013 16:46:20 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3229.D		
Injection Date:	21-Dec-2012 13:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-501-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	9
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

No Library Matches Found above the Threshold: 85

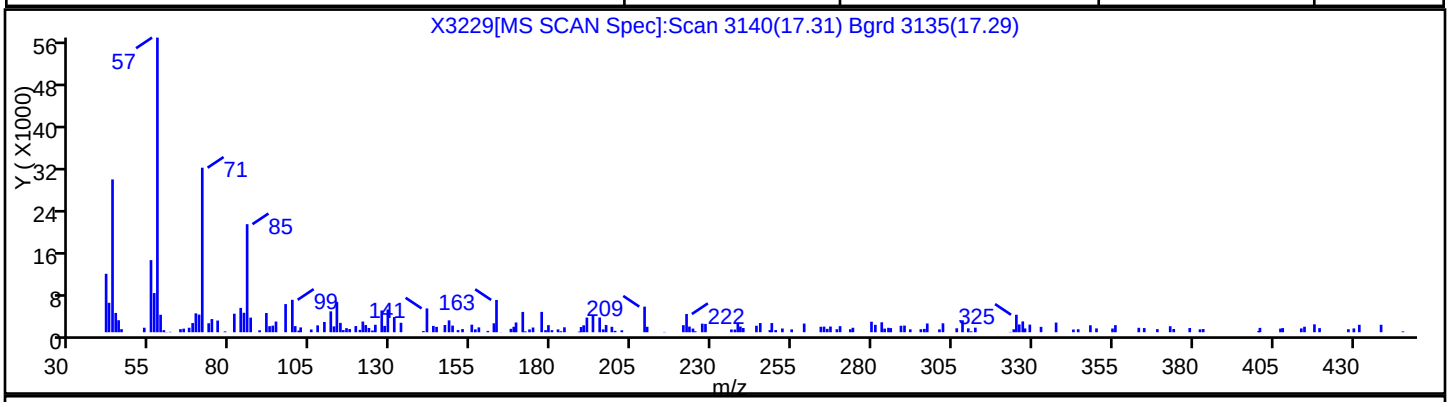


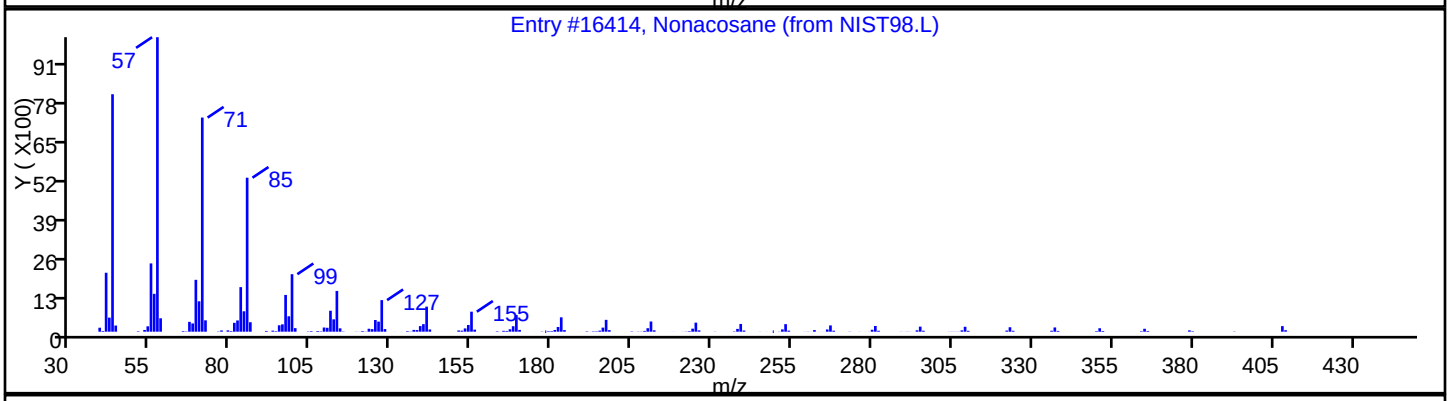
Report Date: 01-Mar-2013 16:46:20 Chrom Revision: 2.0 01-Feb-2013 10:03:10

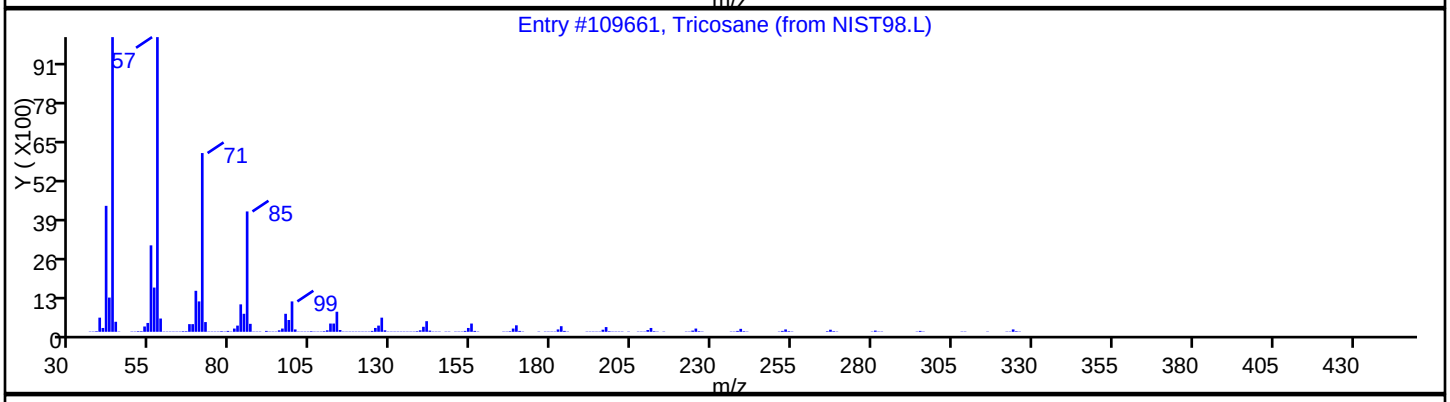
TestAmerica Buffalo

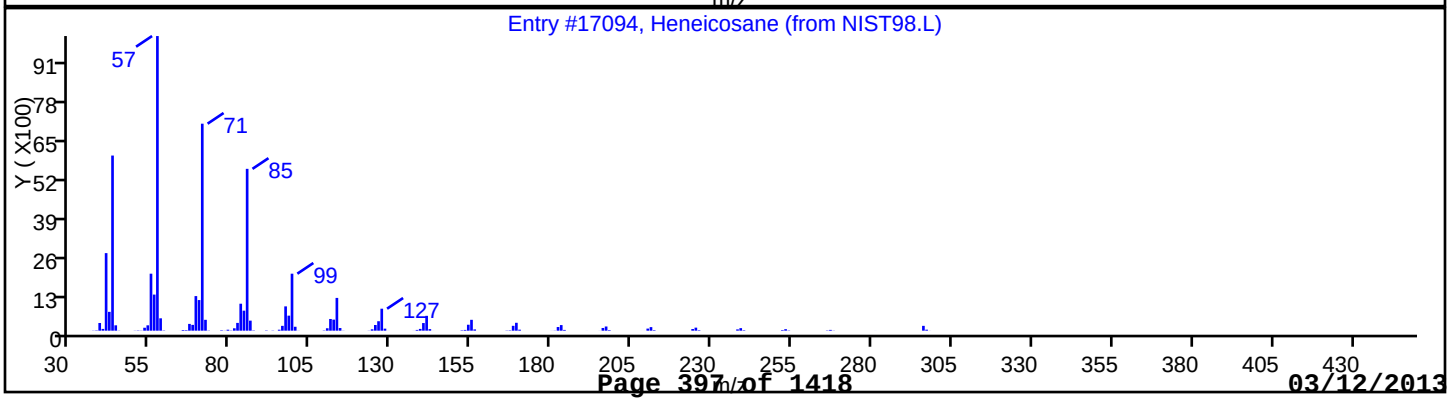
Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3229.D		
Injection Date:	21-Dec-2012 13:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-501-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	9
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Nonacosane	630-3-5	NIST98.L	16414	93
Tricosane	638-67-5	NIST98.L	109661	89
Heneicosane	629-94-7	NIST98.L	17094	86







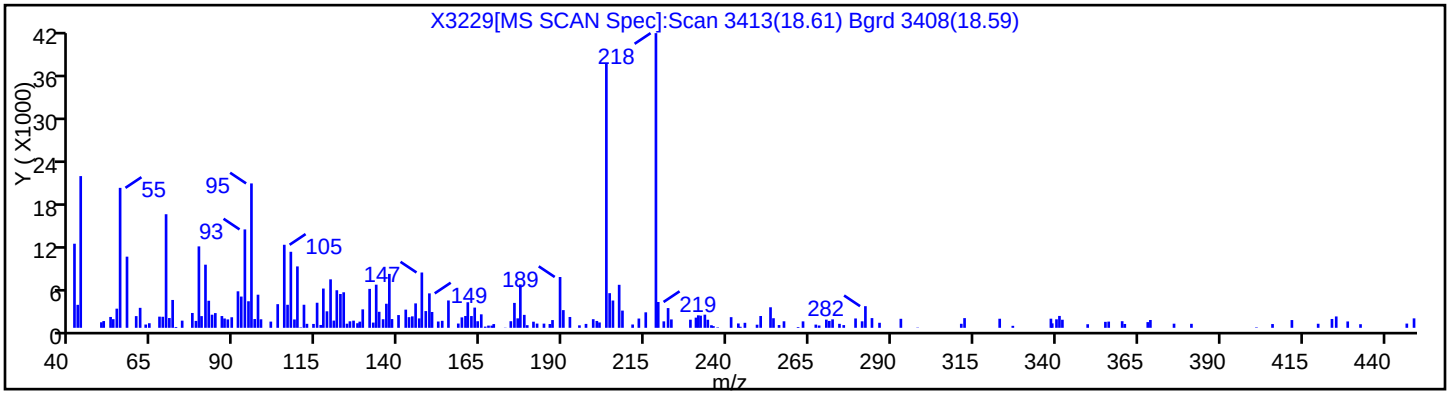


Report Date: 01-Mar-2013 16:46:21 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3229.D		
Injection Date:	21-Dec-2012 13:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-501-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	9
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

No Library Matches Found above the Threshold: 85



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-30406-1
SDG No.:
Client Sample ID: OC-SD-SD-502-XXX
Lab Sample ID: 480-30406-4
Matrix: Solid
Lab File ID: X3230.D
Analysis Method: 8270D
Date Collected: 12/17/2012 12:45
Extract. Method: 3546
Date Extracted: 12/19/2012 09:46
Sample wt/vol: 000030.3(g)
Date Analyzed: 12/21/2012 13:37
Con. Extract Vol.: 1(mL)
Dilution Factor: 10
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture: 30.6
GPC Cleanup:(Y/N) N
Analysis Batch No.: 97046
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	ND		480	140
95-50-1	1,2-Dichlorobenzene	ND		480	140
541-73-1	1,3-Dichlorobenzene	ND		480	140
100-52-7	Benzaldehyde	1900		480	140
106-46-7	1,4-Dichlorobenzene	ND		480	140
108-60-1	2,2'-oxybis[1-chloropropane]	ND		480	140
95-95-4	2,4,5-Trichlorophenol	ND		480	160
88-06-2	2,4,6-Trichlorophenol	ND		480	200
100-51-6	Benzyl alcohol	ND		950	140
120-83-2	2,4-Dichlorophenol	ND		480	140
105-67-9	2,4-Dimethylphenol	ND		480	140
51-28-5	2,4-Dinitrophenol	ND	*	480	390
121-14-2	2,4-Dinitrotoluene	ND		480	140
100-01-6	4-Nitroaniline	ND		2400	400
606-20-2	2,6-Dinitrotoluene	ND		480	400
91-58-7	2-Chloronaphthalene	ND		480	140
95-57-8	2-Chlorophenol	ND		480	140
86-30-6	N-Nitrosodiphenylamine	ND		480	140
91-57-6	2-Methylnaphthalene	ND		480	140
95-48-7	2-Methylphenol	ND		480	140
88-75-5	2-Nitrophenol	ND		480	190
15831-10-4	3 & 4 Methylphenol	6100		480	140
91-94-1	3,3'-Dichlorobenzidine	ND		950	170
88-74-4	2-Nitroaniline	ND		2400	600
77-47-4	Hexachlorocyclopentadiene	ND		950	140
106-47-8	4-Chloroaniline	ND		950	430
100-02-7	4-Nitrophenol	ND	*	2400	200
83-32-9	Acenaphthene	ND		480	140
534-52-1	4,6-Dinitro-2-methylphenol	ND		2400	460
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		480	140
208-96-8	Acenaphthylene	ND		480	140
98-86-2	Acetophenone	260	J	480	140
62-53-3	Aniline	ND		480	140
120-12-7	Anthracene	ND		480	140

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-30406-1

SDG No.:

Client Sample ID: OC-SD-SD-502-XXX | Lab Sample ID: 480-30406-4

Matrix: Solid | Lab File ID: X3230.D

Analysis Method: 8270D | Date Collected: 12/17/2012 12:45

Extract. Method: 3546 | Date Extracted: 12/19/2012 09:46

Sample wt/vol: 000030.3(g) | Date Analyzed: 12/21/2012 13:37

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

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

% Moisture: 30.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 97046 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1912-24-9	Atrazine	ND		480	140
103-33-3	Azobenzene	ND	*	480	140
56-55-3	Benzo[a]anthracene	ND		480	140
50-32-8	Benzo[a]pyrene	ND		480	140
205-99-2	Benzo[b]fluoranthene	140	J	480	140
191-24-2	Benzo[g,h,i]perylene	ND		480	140
105-60-2	Caprolactam	ND		480	140
99-09-2	3-Nitroaniline	ND		2400	140
207-08-9	Benzo[k]fluoranthene	ND		480	240
111-91-1	Bis(2-chloroethoxy)methane	ND		480	140
92-52-4	1,1'-Biphenyl	ND		480	140
111-44-4	Bis(2-chloroethyl)ether	ND		480	140
117-81-7	Bis(2-ethylhexyl) phthalate	ND		2400	960
85-68-7	Butyl benzyl phthalate	ND		480	140
218-01-9	Chrysene	ND		480	140
621-64-7	N-Nitrosodi-n-propylamine	ND		480	140
65-85-0	Benzoic acid	ND		2400	210
53-70-3	Dibenz(a,h)anthracene	ND		480	140
132-64-9	Dibenzofuran	ND		480	140
84-66-2	Diethyl phthalate	ND		480	160
131-11-3	Dimethyl phthalate	ND		480	140
84-74-2	Di-n-butyl phthalate	ND		2400	710
117-84-0	Di-n-octyl phthalate	ND		480	140
101-84-8	Phenyl ether	ND		480	140
58-90-2	2,3,4,6-Tetrachlorophenol	ND		480	140
206-44-0	Fluoranthene	290	J	480	140
59-50-7	4-Chloro-3-methylphenol	ND		950	140
86-73-7	Fluorene	ND		480	140
7005-72-3	4-Chlorophenyl phenyl ether	ND		480	140
118-74-1	Hexachlorobenzene	ND		480	140
87-68-3	Hexachlorobutadiene	ND		480	140
67-72-1	Hexachloroethane	ND		480	140
193-39-5	Indeno[1,2,3-cd]pyrene	ND		480	140
78-59-1	Isophorone	ND		480	140

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-30406-1

SDG No.:

Client Sample ID: OC-SD-SD-502-XXX | Lab Sample ID: 480-30406-4

Matrix: Solid | Lab File ID: X3230.D

Analysis Method: 8270D | Date Collected: 12/17/2012 12:45

Extract. Method: 3546 | Date Extracted: 12/19/2012 09:46

Sample wt/vol: 000030.3(g) | Date Analyzed: 12/21/2012 13:37

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

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

% Moisture: 30.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 97046 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-20-3	Naphthalene	ND		480	140
98-95-3	Nitrobenzene	ND		480	140
87-86-5	Pentachlorophenol	ND		480	140
85-01-8	Phenanthrene	210	J	480	140
119-61-9	Benzophenone	ND		480	140
108-95-2	Phenol	2200		480	140
129-00-0	Pyrene	230	J	480	140
62-75-9	N-Nitrosodimethylamine	ND		480	140
86-74-8	Carbazole	ND		480	140
90-12-0	1-Methylnaphthalene	ND		480	140
106-44-5	4-Methylphenol	6100		470	140

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	0	X	30-130
367-12-4	2-Fluorophenol	0	X	30-130
4165-60-0	Nitrobenzene-d5	0	X	30-130
4165-62-2	Phenol-d5	0	X	30-130
321-60-8	2-Fluorobiphenyl	0	X	30-130
1718-51-0	p-Terphenyl-d14	66		30-130

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo | Job No.: 480-30406-1

SDG No.:

Client Sample ID: OC-SD-SD-502-XXX | Lab Sample ID: 480-30406-4

Matrix: Solid | Lab File ID: X3230.D

Analysis Method: 8270D | Date Collected: 12/17/2012 12:45

Extract. Method: 3546 | Date Extracted: 12/19/2012 09:46

Sample wt/vol: 000030.3(g) | Date Analyzed: 12/21/2012 13:37

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

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

% Moisture: 30.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 97046 | Units: ug/Kg

Number TICs Found: 10 | TIC Result Total: 21100

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown	4.09	8900	T J
106-42-3	p-Xylene	4.57	2200	T J N
1000157-89-9	(+)-.alpha.-Terpineol (p-menth-1-en-8-ol	8.53	820	T J N
	Unknown	9.80	1600	T J
	Unknown	10.17	820	T J
292-46-6	Lenthionine	12.39	1400	T J N
	Unknown	12.93	1600	T J
638-53-9	Tridecanoic acid	13.78	2000	T J N
69009-90-1	1,1'-Biphenyl, bis(1-methylethyl)-	14.46	800	T J N
18956-15-5	2-Propen-1-one, 1-(2,6-dihydroxy-4-metho	15.48	960	T J N

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3230.D		
Lims ID:	480-30406-C-4-A	Client ID:	OC-SD-SD-502-XXX
Inject. Date:	21-Dec-2012 13:37:30	Dil. Factor:	10.0000
Sample Type:	Client		
Sample ID:	480-0017772-010		
Misc. Info.:			
Operator:	ANM	Instrument ID:	HP5973X
Injection Vol:	1.0 ul	ALS Bottle#:	11
Lims Batch ID:	97046	Lims Sample ID:	10
Detector:	MS SCAN		

Method:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X-8270LL.m		
Last Update:	01-Mar-2013 16:46:14	Calib Date:	18-Dec-2012 14:44:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3139.D		
Limit Group:	MB - 8270RCP_MCP ICAL		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm
Process Host:	XAWRK018		

First Level Reviewer: mckernar Date: 21-Dec-2012 14:37:21

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.513	6.599	-0.086	83	118652	5.00	
* 2 Naphthalene-d8	136	8.448	8.491	-0.043	97	485381	5.00	
* 3 Acenaphthene-d10	164	11.112	11.107	0.005	84	316744	5.00	
* 4 Phenanthrene-d10	188	13.128	13.114	0.014	96	532714	5.00	
* 5 Chrysene-d12	240	15.767	15.767	0.0	97	424573	5.00	
* 6 Perylene-d12	264	17.047	17.056	-0.009	96	436303	5.00	
$ 7 2-Fluorophenol	112		4.677					9
$ 8 Phenol-d5	99		6.109					9
$ 9 Nitrobenzene-d5	82		7.431					
$ 10 2-Fluorobiphenyl	172		10.122					
$ 11 2,4,6-Tribromophenol	330		12.262					9
$ 12 p-Terphenyl-d14	244	14.797	14.792	0.005	66	10855	0.1326	
19 N-Nitrosodimethylamine	42		2.785					
21 Benzaldehyde	77	5.857	5.952	-0.095	87	91033	3.91	
23 Aniline	93		6.118					
22 Phenol	94	6.052	6.128	-0.076	50	163733	4.53	
24 Bis(2-chloroethyl)ether	93		6.223					
25 2-Chlorophenol	128		6.289					
26 1,3-Dichlorobenzene	146		6.508					9
27 1,4-Dichlorobenzene	146		6.622					9
28 Benzyl alcohol	108		6.841					
29 1,2-Dichlorobenzene	146		6.841					
31 2-Methylphenol	108		7.027					
32 2,2'-oxybis[1-chloropropane]	45		7.036					
35 DFTPP								
33 Acetophenone	105	7.164	7.217	-0.053	60	24178	0.5495	
34 N-Nitrosodi-n-propylamine	70		7.222					14
36 4-Methylphenol	108	7.207	7.274	-0.067	81	334375	12.8	
37 Hexachloroethane	117		7.336					19
38 Nitrobenzene	77		7.464					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
40 Isophorone	82		7.826					
41 2-Nitrophenol	139		7.940					149
43 2,4-Dimethylphenol	107		8.054					
45 Bis(2-chloroethoxy)methane	93		8.173					
44 Benzoic acid	105		8.235					
47 2,4-Dichlorophenol	162		8.325					
48 1,2,4-Trichlorobenzene	180		8.410					
49 Naphthalene	128		8.520					
51 4-Chloroaniline	127		8.648					149
52 Hexachlorobutadiene	225		8.715					
54 Caprolactam	113		9.186					24
55 4-Chloro-3-methylphenol	107		9.438					1
56 2-Methylnaphthalene	142		9.561					
57 1-Methylnaphthalene	142	9.694	9.704	-0.010	17	3005	0.0433	
58 Hexachlorocyclopentadiene	237		9.794					
59 1,2,4,5-Tetrachlorobenzene	216		9.813					
60 2,4,6-Trichlorophenol	196		10.018					19
61 2,4,5-Trichlorophenol	196		10.108					
62 1,1'-Biphenyl	154		10.265					149
63 2-Chloronaphthalene	162		10.313					
64 Phenyl ether	170		10.427					
65 2-Nitroaniline	65		10.484					
67 Dimethyl phthalate	163		10.764					
68 2,6-Dinitrotoluene	165		10.850					
69 Acenaphthylene	152		10.898					
70 3-Nitroaniline	138		11.116					
71 Acenaphthene	153		11.154					9
72 2,4-Dinitrophenol	184		11.288					149
73 Dibenzofuran	168		11.421					19
74 2,4-Dinitrotoluene	165		11.459					149
75 4-Nitrophenol	109		11.492					
76 2,3,4,6-Tetrachlorophenol	232		11.640					
78 Diethyl phthalate	149		11.811					
79 Fluorene	166		11.920					
80 4-Chlorophenyl phenyl ether	204		11.939					
81 4-Nitroaniline	138		12.025					
82 4,6-Dinitro-2-methylphenol	198		12.048					
83 N-Nitrosodiphenylamine	169		12.115					
85 Azobenzene	77		12.153					
86 Benzophenone	105		12.177					
89 4-Bromophenyl phenyl ether	248		12.581					
91 Hexachlorobenzene	284		12.643					
93 Atrazine	200		12.833					9
94 Pentachlorophenol	266		12.914					
97 Phenanthrene	178	13.157	13.142	0.014	52	52199	0.4396	
98 Anthracene	178		13.204					9
99 Carbazole	167		13.413					
102 Di-n-butyl phthalate	149		13.799					
104 Fluoranthene	202	14.431	14.422	0.009	90	72504	0.6167	
106 Pyrene	202	14.655	14.645	0.009	94	55638	0.4891	
108 Butyl benzyl phthalate	149		15.244					
110 Bis(2-ethylhexyl) phthalate	149	15.734	15.739	-0.005	89	47668	0.5504	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
109 3,3'-Dichlorobenzidine	252		15.739					
111 Benzo[a]anthracene	228	15.758	15.753	0.005	33	24257	0.2652	
112 Chrysene	228	15.786	15.791	-0.005	21	20897	0.2014	
113 Di-n-octyl phthalate	149		16.281					
114 Benzo[b]fluoranthene	252	16.704	16.695	0.009	76	30230	0.2983	
115 Benzo[k]fluoranthene	252	16.723	16.718	0.005	80	12889	0.1234	M
116 Benzo[a]pyrene	252		17.004					
117 Indeno[1,2,3-cd]pyrene	276		18.155					
118 Dibenz(a,h)anthracene	278		18.155					
119 Benzo[g,h,i]perylene	276		18.473					9
S 120 3 & 4 Methylphenol	108		0.000					

QC Flag Legend

Processing Flags
1 - Missing Peaks
2 - Failed Coelution Test
4 - Failed Signal Ratio Test
9 - Failed A Reference Spectral Test

Review Flags
M - Manually Integrated

TestAmerica Buffalo
Tentatively Identified Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3230.D		
Lims ID:	480-30406-C-4-A	Client ID:	OC-SD-SD-502-XXX
Inject. Date:	21-Dec-2012 13:37:30	Dil. Factor:	10.0000
Sample Type:	Client		
Sample ID:	480-0017772-010		
Misc. Info.:			
Operator:	ANM	Instrument ID:	HP5973X
Injection Vol:	1.0 ul	ALS Bottle#:	11
Lims Batch ID:	97046	Lims Sample ID:	10
Detector:	MS SCAN		
Method:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X-8270LL.m		
Last Update:	01-Mar-2013 16:46:14	Calib Date:	18-Dec-2012 14:44:30
Tic RT Window:	1.500 -0.000	Response:	area
Quant By:	Nearest ISTD	Quant LOD:	10.00000
MS Library:	\\Bufchrom\ChromData\Database\NIST98.L		
Min. Match:	85		
Process Host:	XAWRK018		
First Level Reviewer: mckernar		Date:	21-Dec-2012 14:37:21

Tentative Identified Compound Results

RT	Response	Amount ng/uL	Quant Cpnd	Qual	Lib Entry	Flags
		Unknown				
4.092	3404684	18.8	1			
106-42-3		p-Xylene				
4.573	856023	4.73	1	94	117404	
1000157-89-9		(+)-.alpha.-Terpineol (p-menth-1-en-8-ol				
8.529	402513	1.72	2	86	19782	
		Unknown				
9.804	1014998	3.34	3			
		Unknown				
10.165	521781	1.72	3			
292-46-6		Lenthionine				
12.391	912059	3.04	4	94	30139	
		Unknown				
12.933	994390	3.32	4			
638-53-9		Tridecanoic acid				
13.784	1244120	4.15	4	94	25772	
69009-90-1		1,1'-Biphenyl, bis(1-methylethyl)-				
14.464	549945	1.68	5	90	88423	
18956-15-5		2-Propen-1-one, 1-(2,6-dihydroxy-4-metho				
15.482	662731	2.03	5	86	81439	

Quantitation Compounds

Compound	RT	Response	Amount ng/uL

Report Date: 01-Mar-2013 16:46:21 Chrom Revision: 2.0 01-Feb-2013 10:03:10
Data File: \\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3230.D

Compound	RT	Response	Amount ng/uL
* 1 1,4-Dichlorobenzene-d4	6.513	905772	5.00
* 2 Naphthalene-d8	8.448	1171132	5.00
* 3 Acenaphthene-d10	11.112	1518727	5.00
* 4 Phenanthrene-d10	13.128	1498624	5.00
* 5 Chrysene-d12	15.763	1633065	5.00

QC Flag Legend

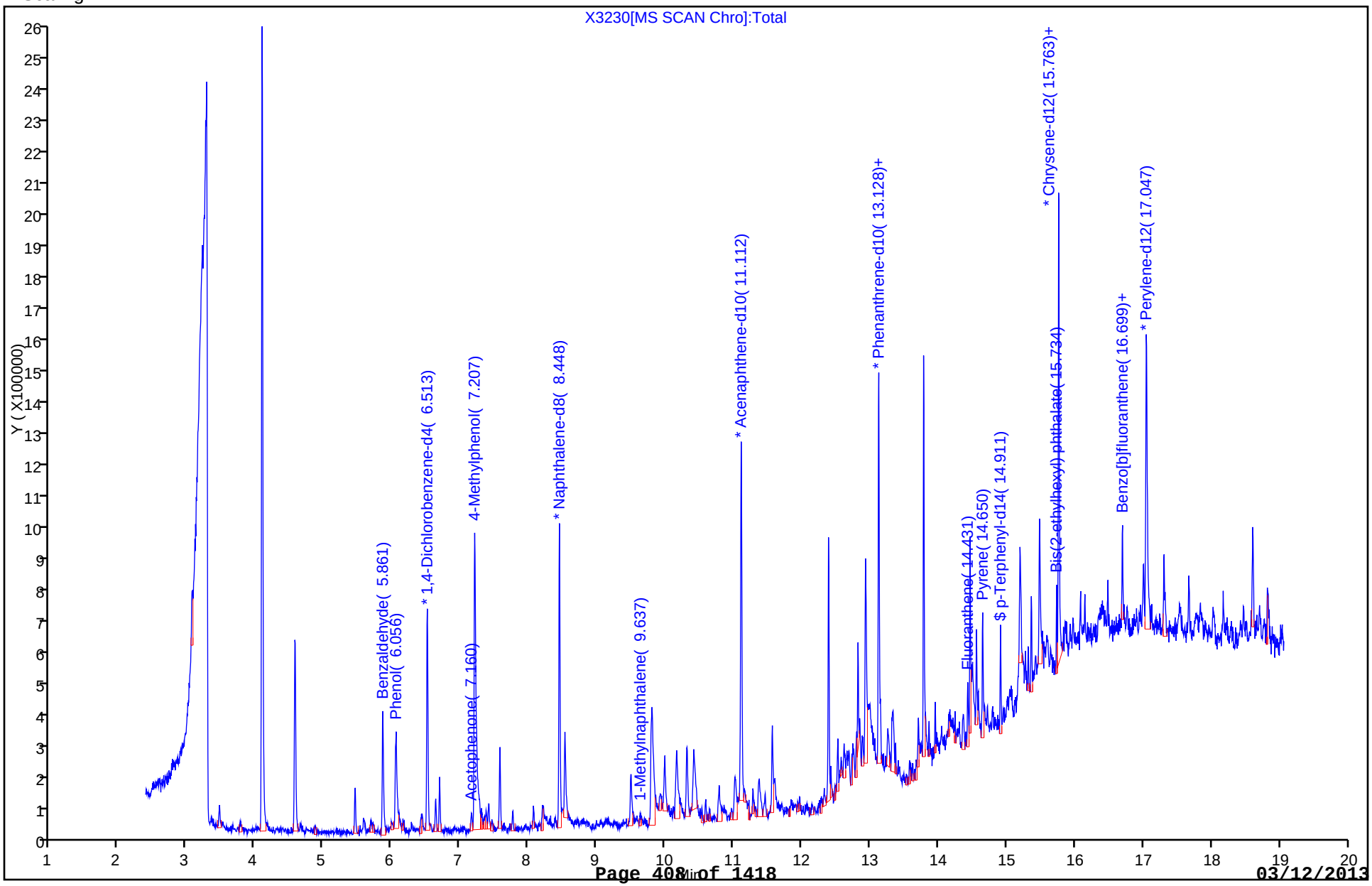
Processing Flags

Report Date: 01-Mar-2013 16:46:21 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3230.D		
Injection Date:	21-Dec-2012 13:37:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-502-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	10
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Y Scaling:

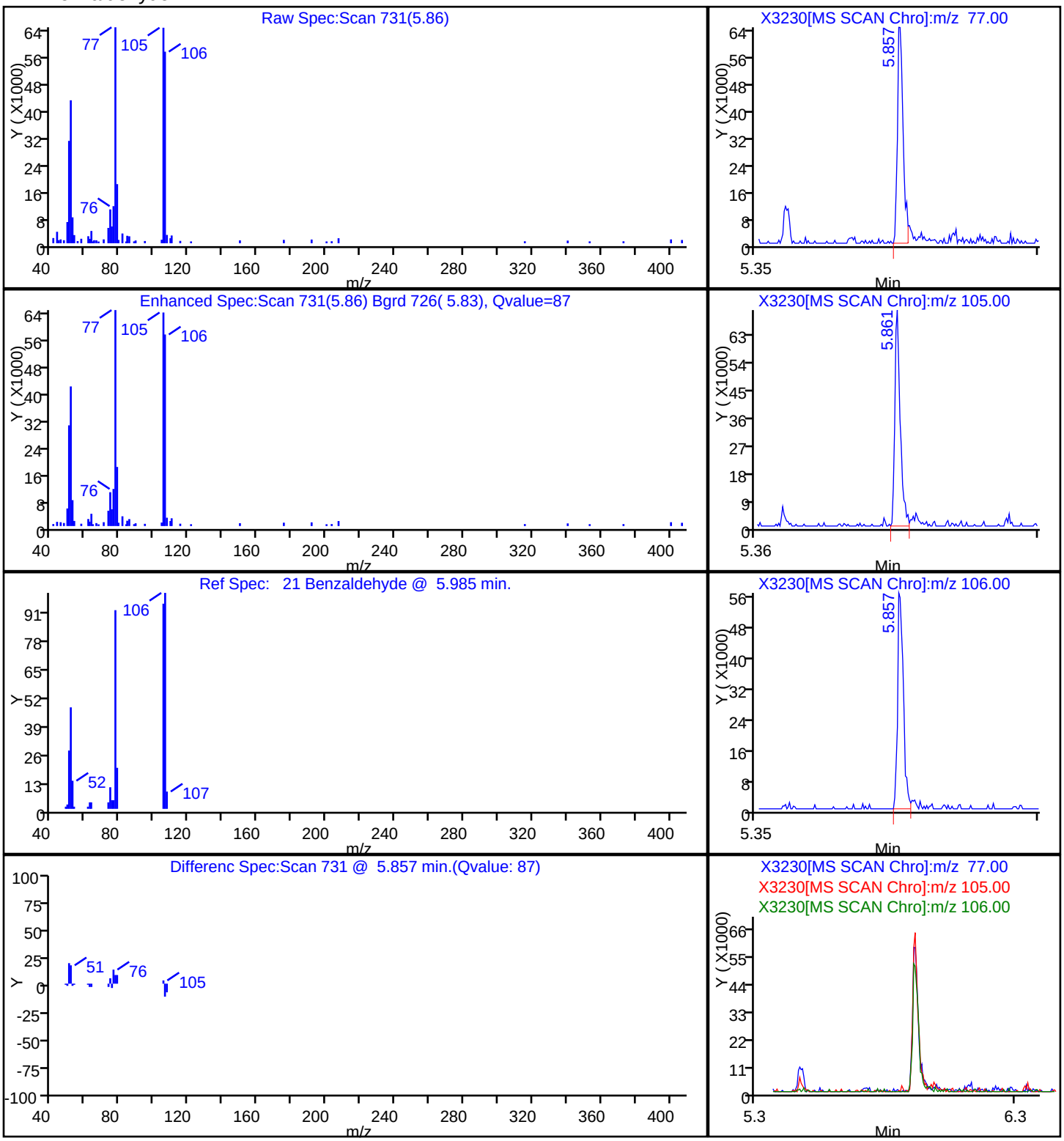


Report Date: 01-Mar-2013 16:46:21 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3230.D		
Injection Date:	21-Dec-2012 13:37:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-502-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	10
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

21 Benzaldehyde

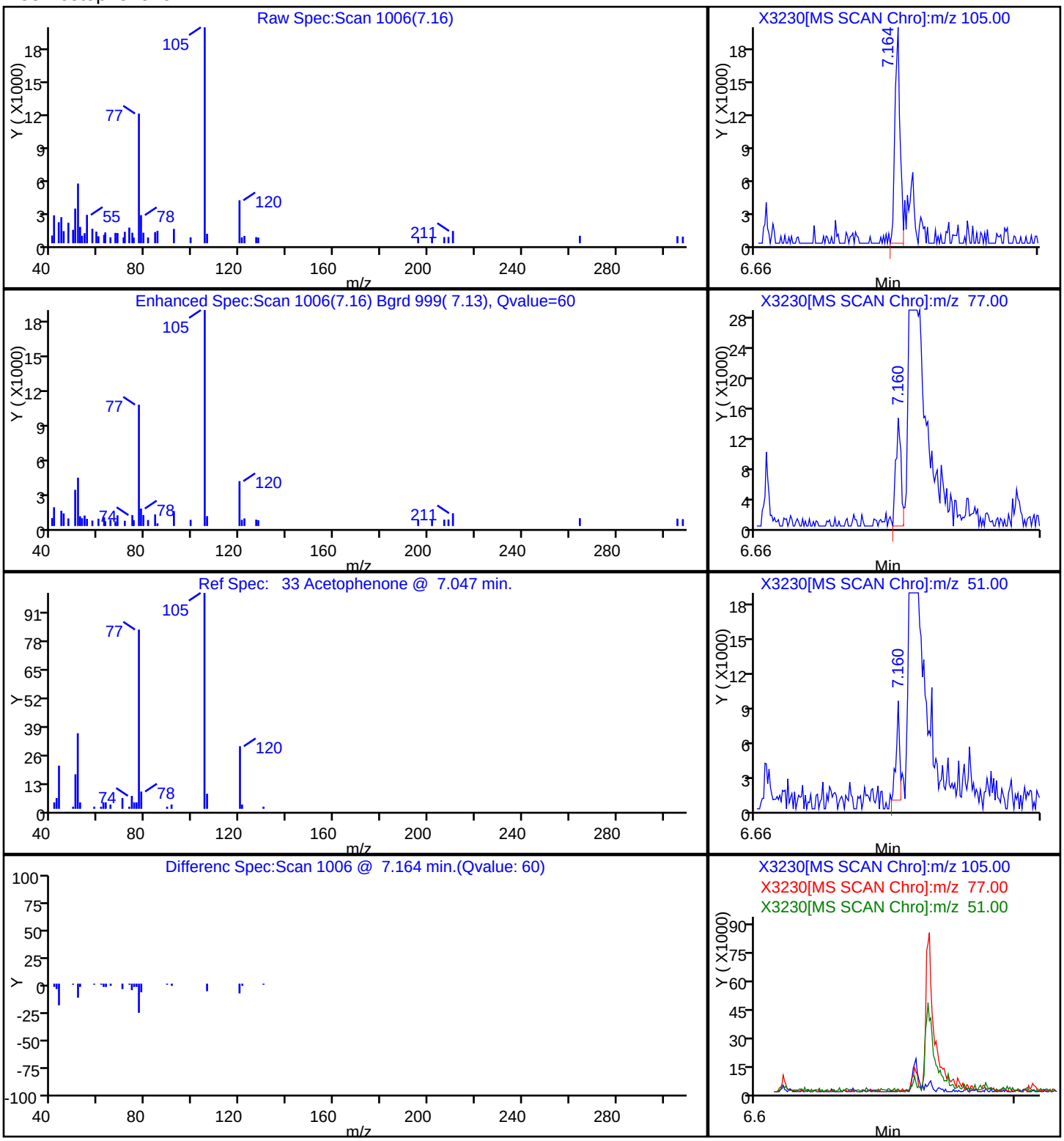


Report Date: 01-Mar-2013 16:46:21 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3230.D		
Injection Date:	21-Dec-2012 13:37:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-502-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	10
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

33 Acetophenone

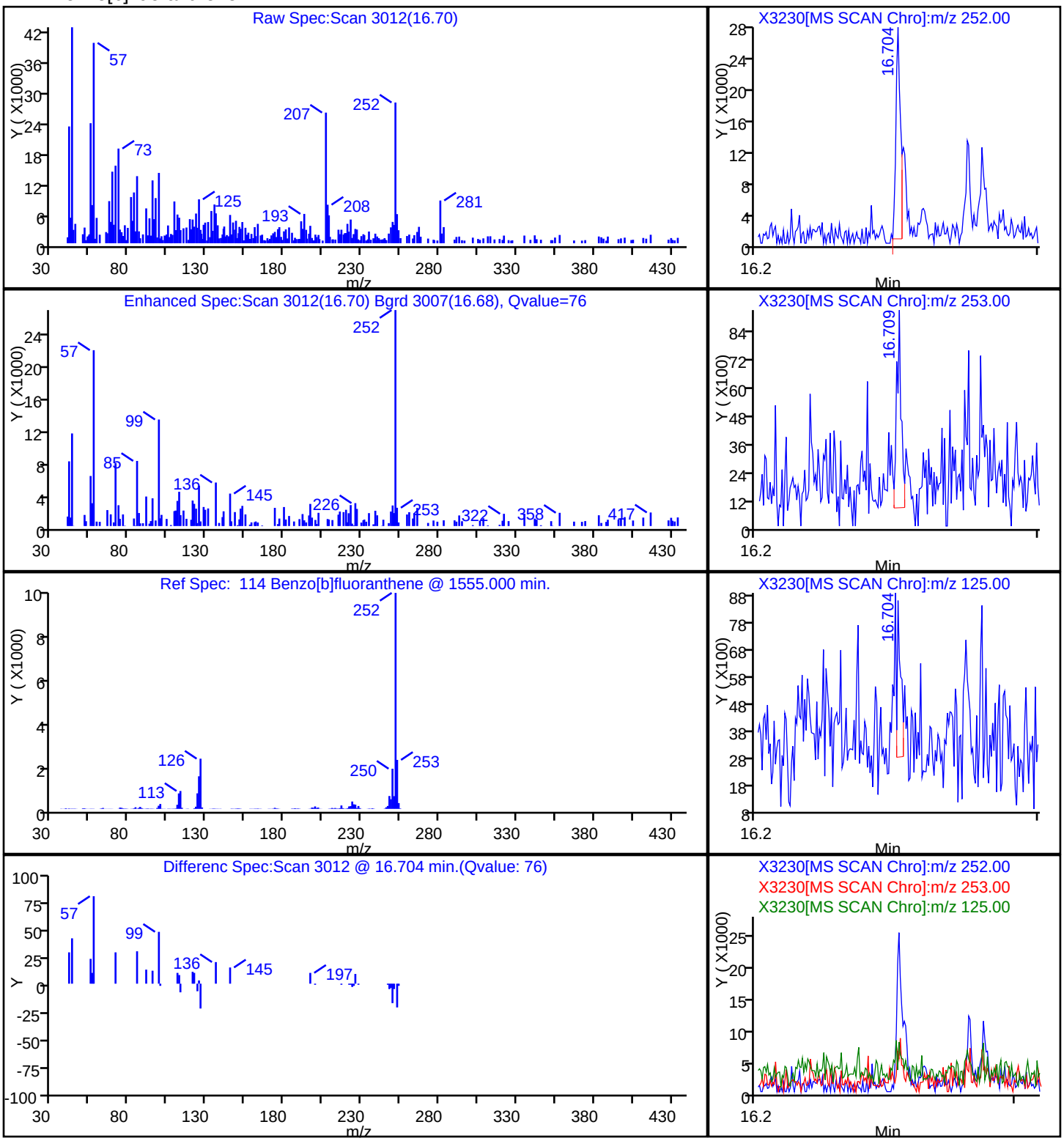


Report Date: 01-Mar-2013 16:46:22 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3230.D		
Injection Date:	21-Dec-2012 13:37:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-502-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	10
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

114 Benzo[b]fluoranthene

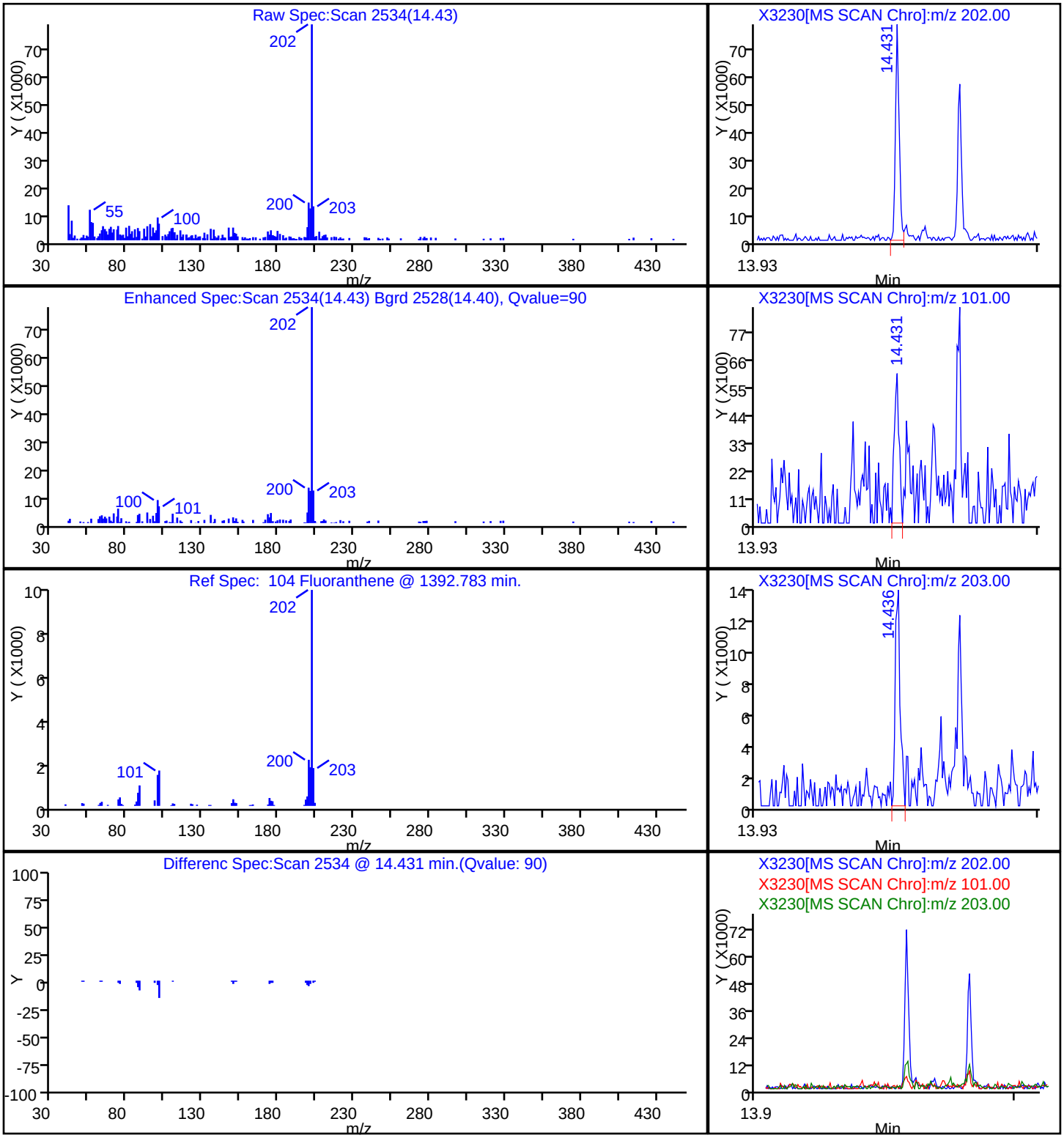


Report Date: 01-Mar-2013 16:46:21 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3230.D		
Injection Date:	21-Dec-2012 13:37:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-502-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	10
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

104 Fluoranthene

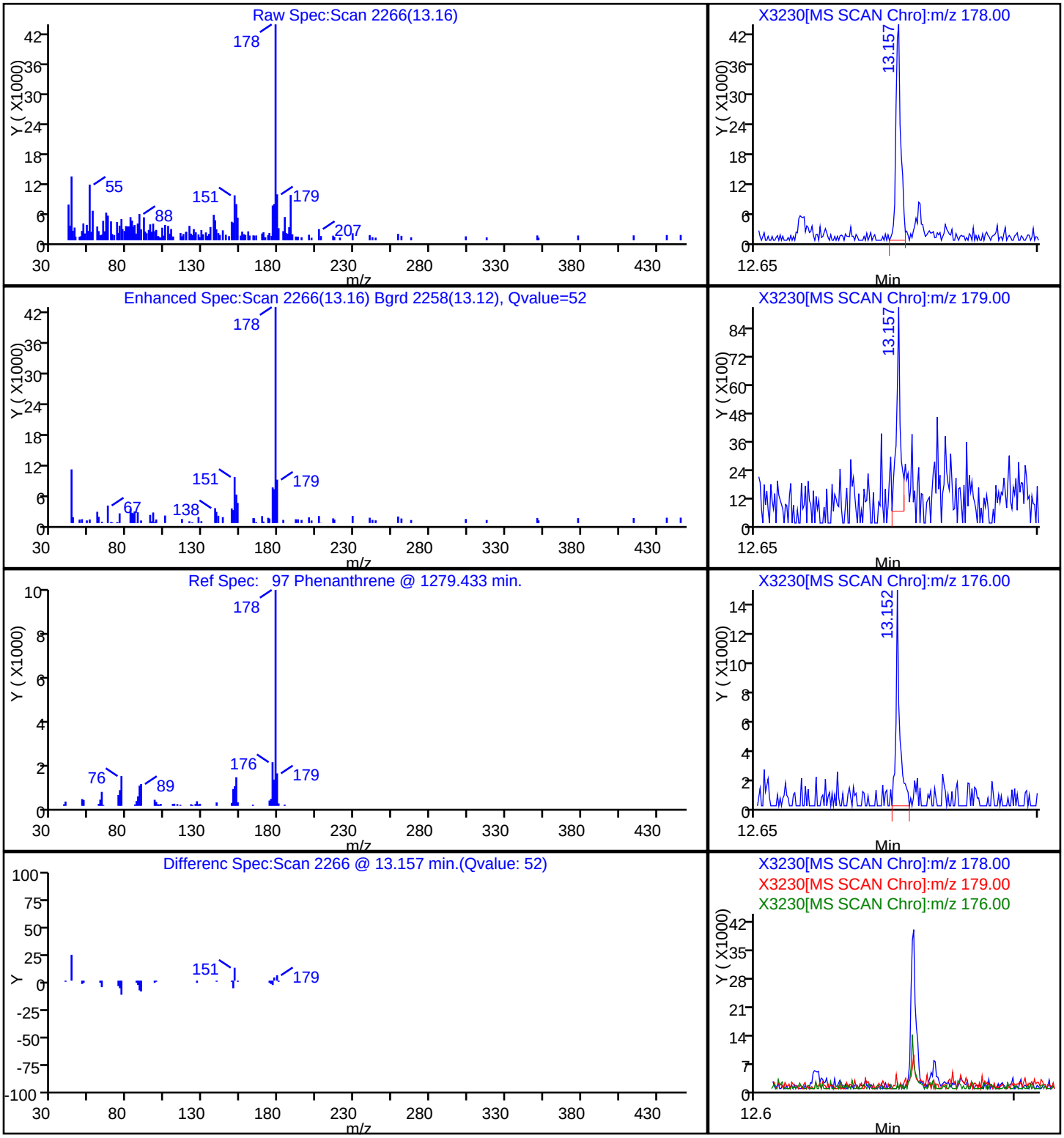


Report Date: 01-Mar-2013 16:46:21 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3230.D		
Injection Date:	21-Dec-2012 13:37:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-502-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	10
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

97 Phenanthrene

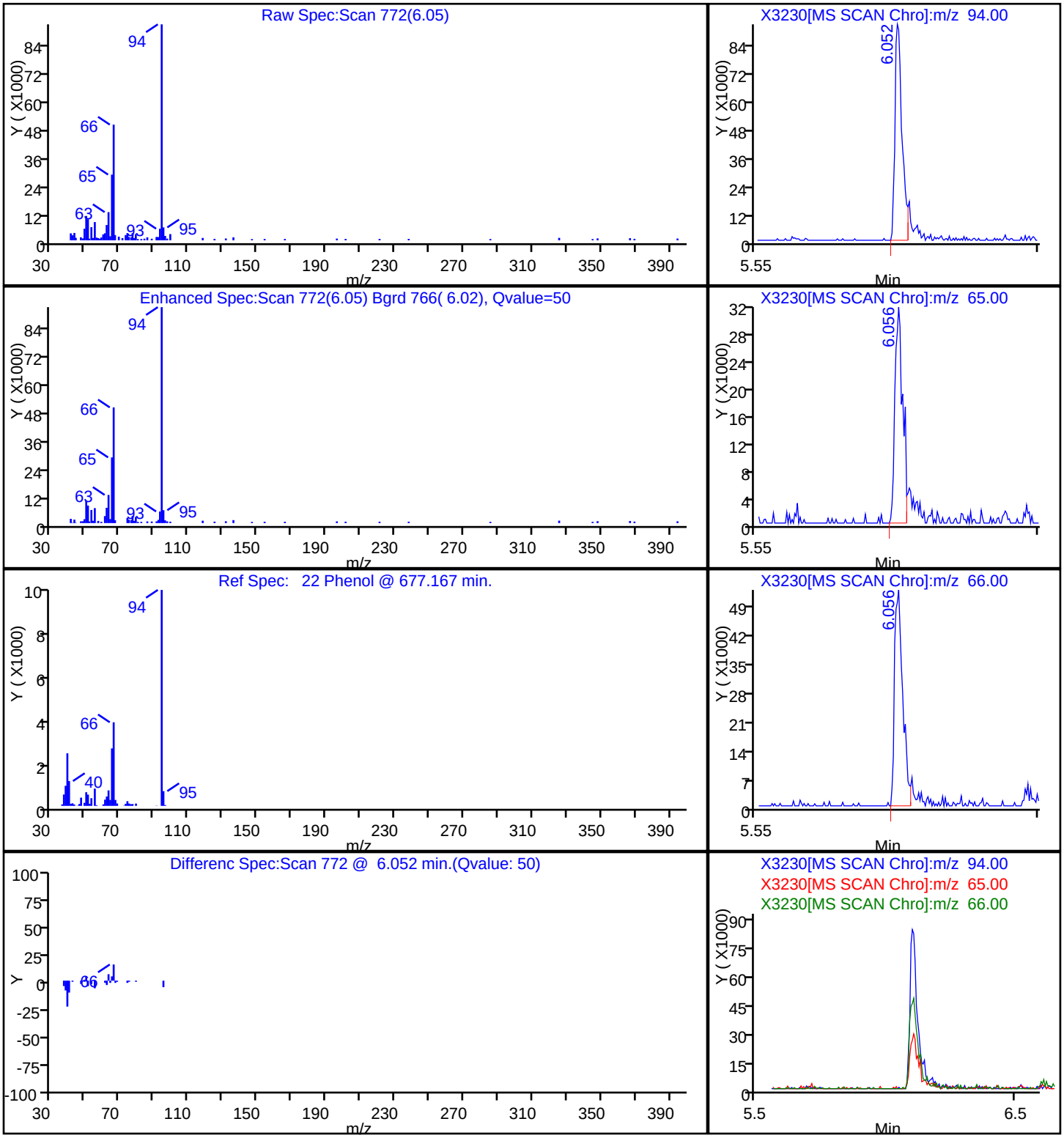


Report Date: 01-Mar-2013 16:46:21 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3230.D		
Injection Date:	21-Dec-2012 13:37:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-502-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	10
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

22 Phenol

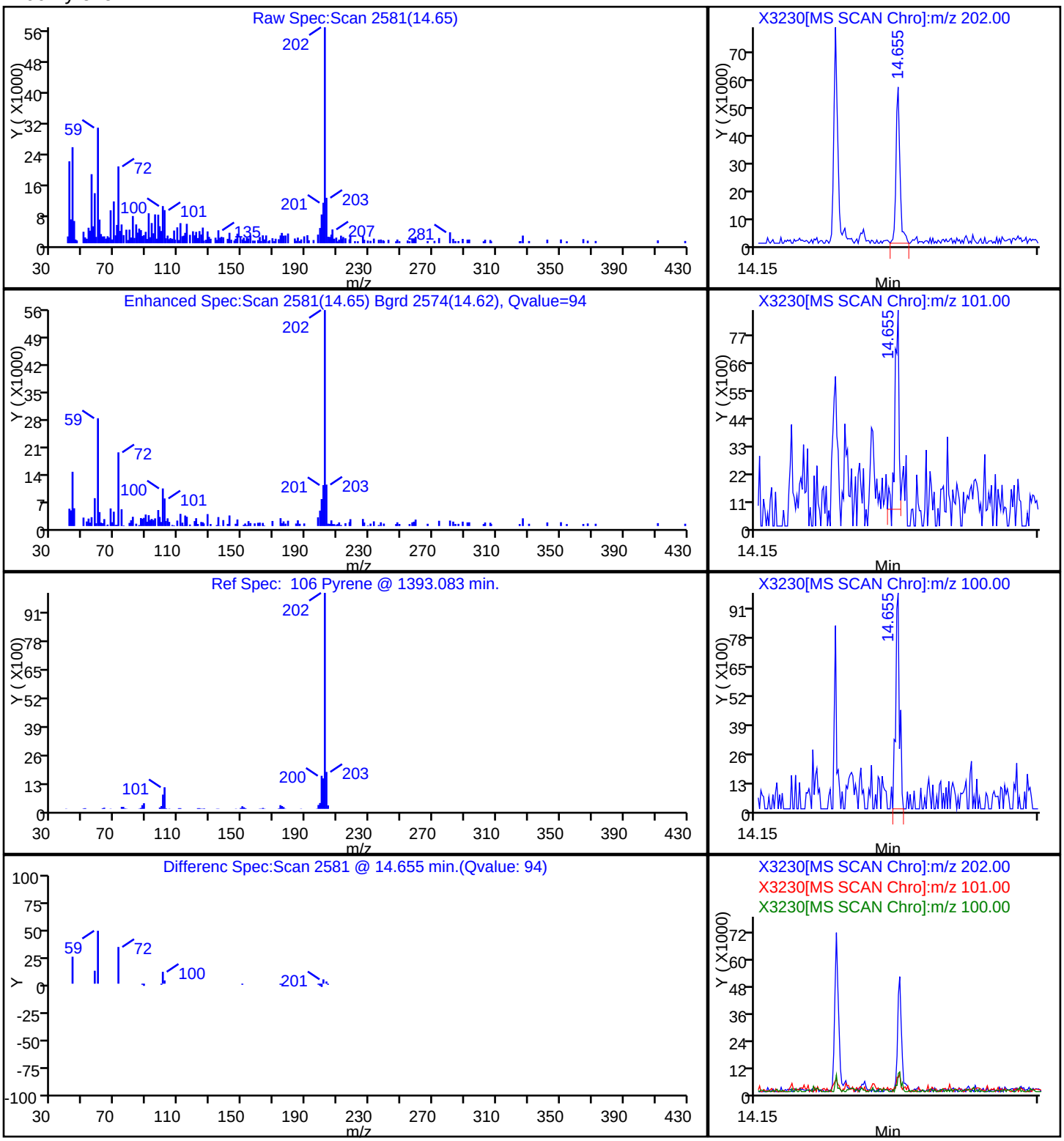


Report Date: 01-Mar-2013 16:46:22 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3230.D		
Injection Date:	21-Dec-2012 13:37:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-502-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	10
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

106 Pyrene

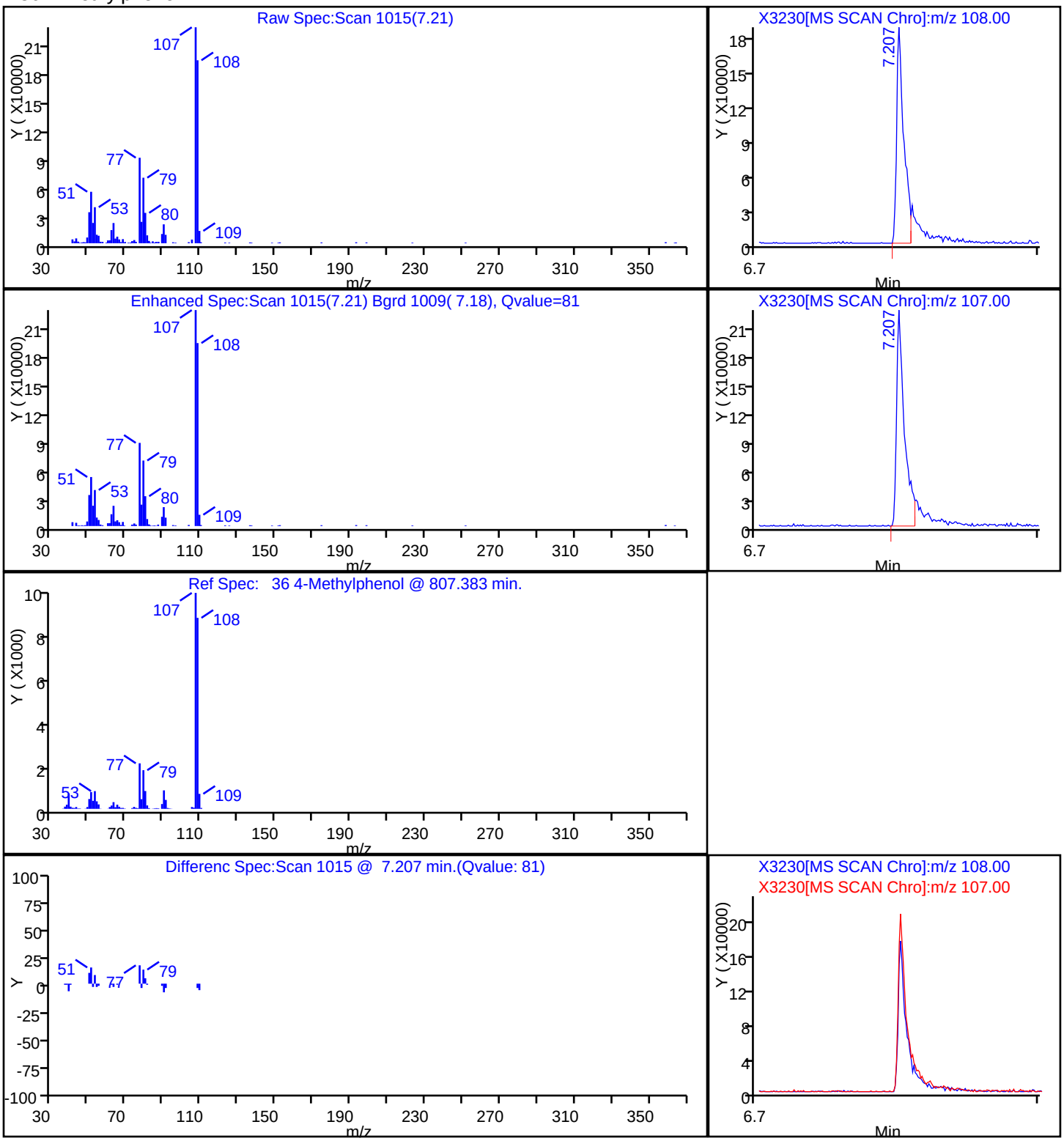


Report Date: 01-Mar-2013 16:46:21 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3230.D		
Injection Date:	21-Dec-2012 13:37:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-502-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	10
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

36 4-Methylphenol



Manual Integration/User Assign Peak Report

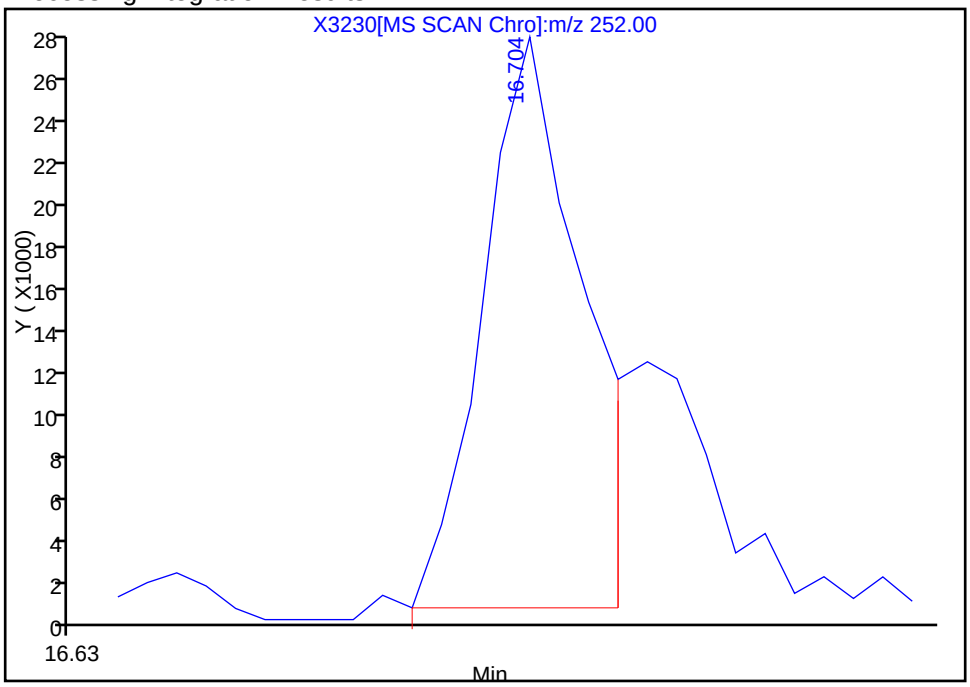
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3230.D		
Injection Date:	21-Dec-2012 13:37:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-502-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	10
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

115 Benzo[k]fluoranthene, Signal: 1, m/z: 252.0 Type: quant, RT: 16.72

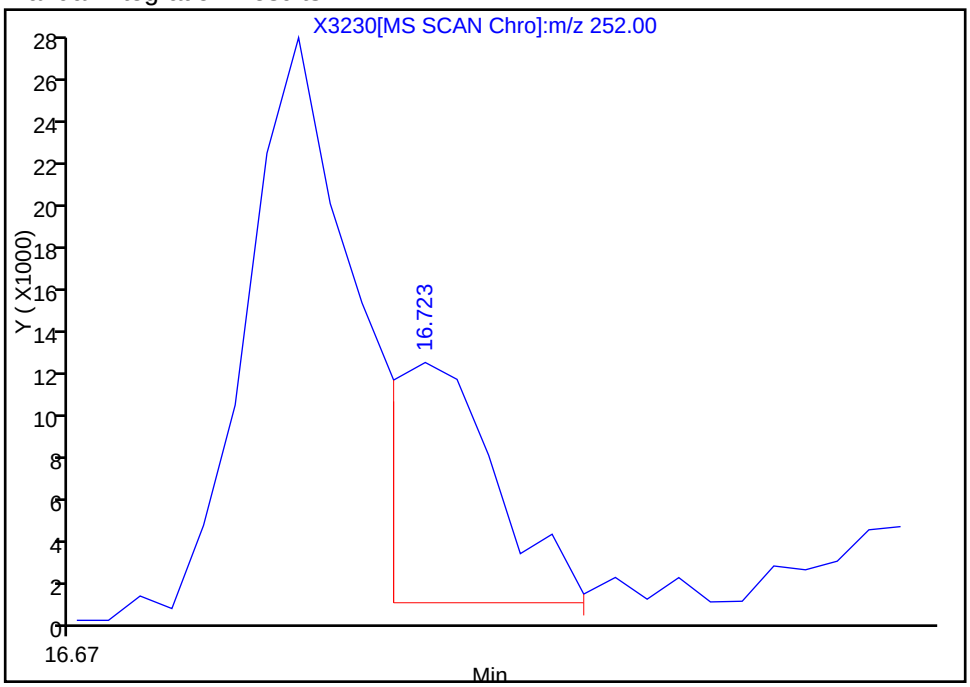
Processing Integration Results

RT: 16.70
Response: 30230
Amount: 0.278787



Manual Integration Results

RT: 16.72
Response: 12889
Amount: 0.123450



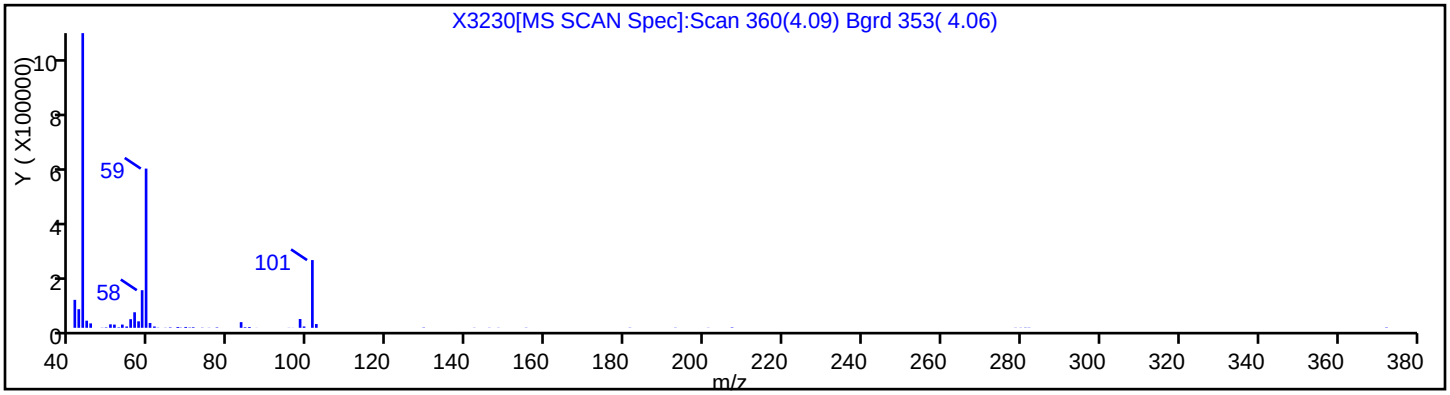
Reviewer: mckernar, 21-Dec-2012 14:37:21
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 01-Mar-2013 16:46:23 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3230.D		
Injection Date:	21-Dec-2012 13:37:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-502-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	10
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

No Library Matches Found above the Threshold: 85

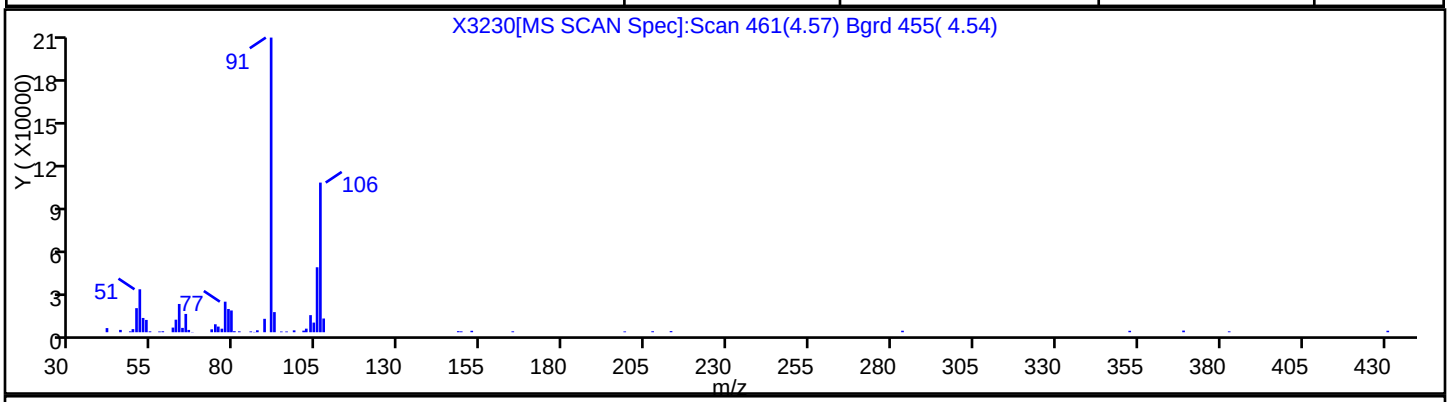


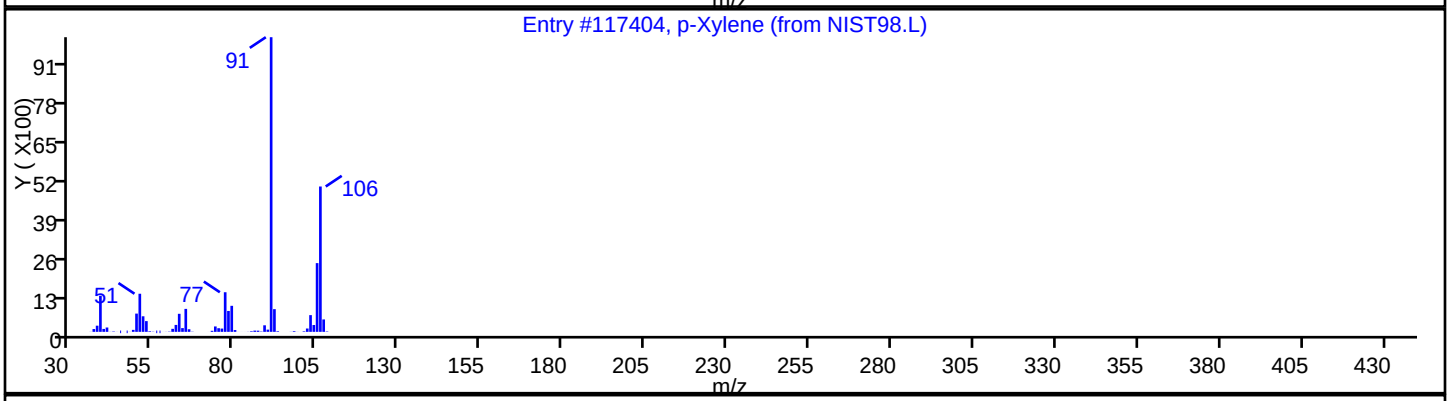
Report Date: 01-Mar-2013 16:46:23 Chrom Revision: 2.0 01-Feb-2013 10:03:10

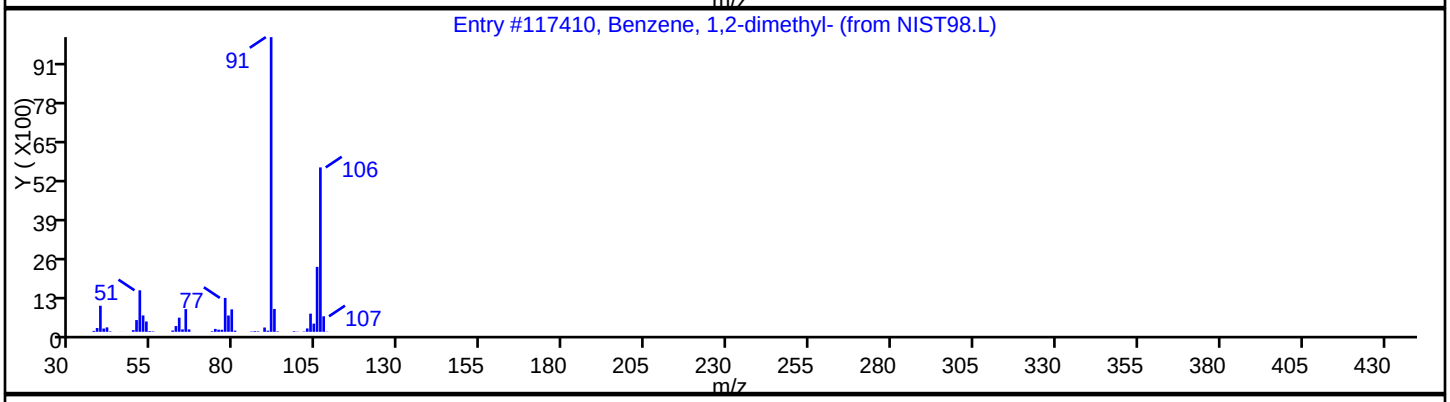
TestAmerica Buffalo

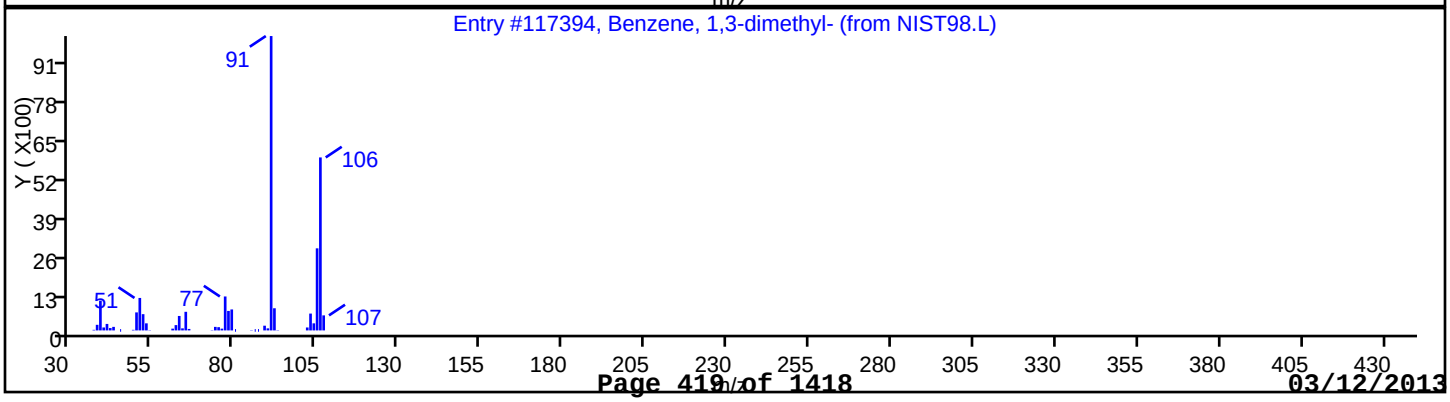
Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3230.D		
Injection Date:	21-Dec-2012 13:37:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-502-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	10
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
p-Xylene	106-42-3	NIST98.L	117404	94
Benzene, 1,2-dimethyl-	95-47-6	NIST98.L	117410	93
Benzene, 1,3-dimethyl-	108-38-3	NIST98.L	117394	93







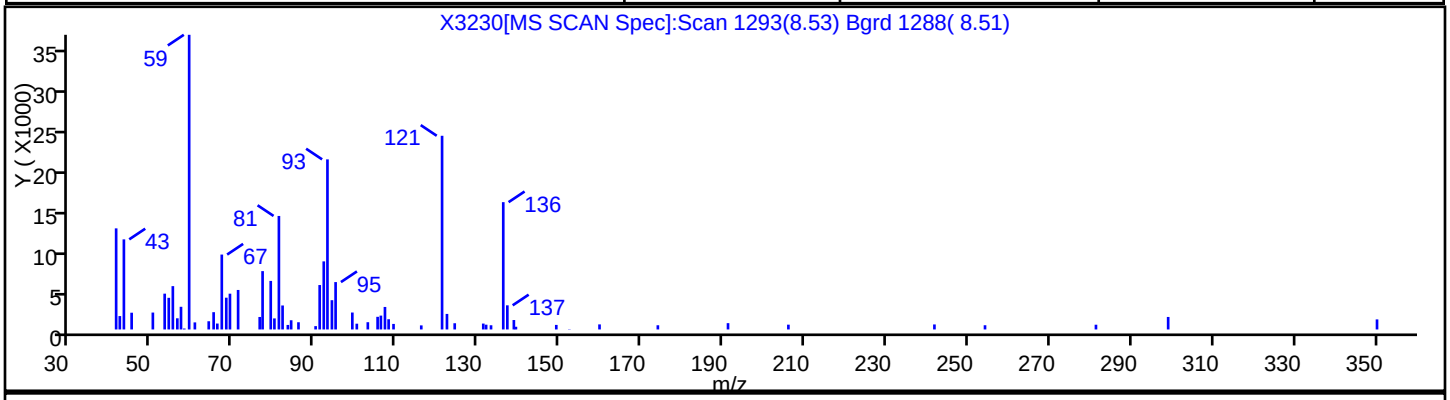


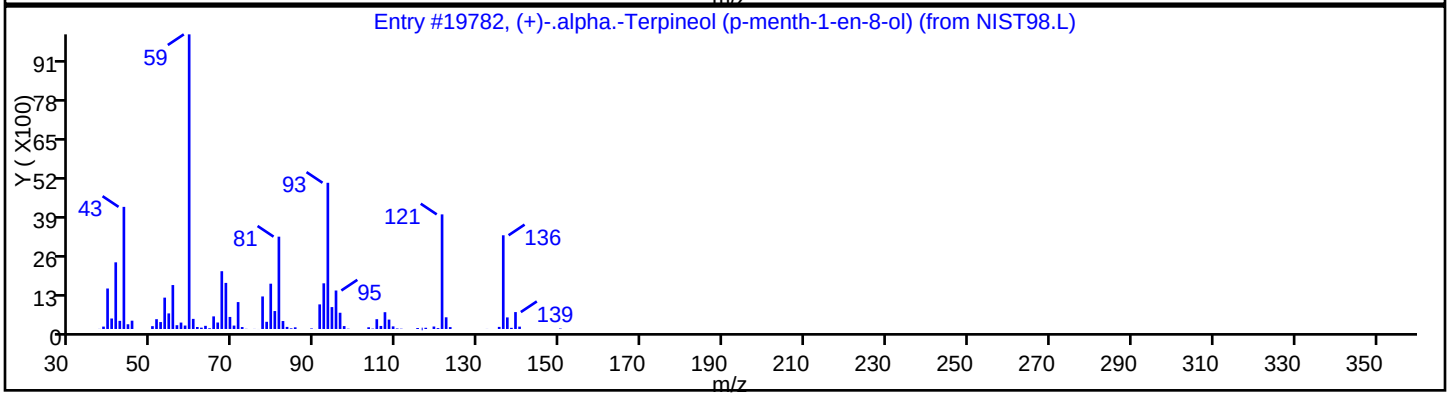
Report Date: 01-Mar-2013 16:46:23 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3230.D		
Injection Date:	21-Dec-2012 13:37:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-502-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	10
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
(+)-.alpha.-Terpineol (p-menth-1-en-8-ol	1000157-89-9	NIST98.L	19782	86



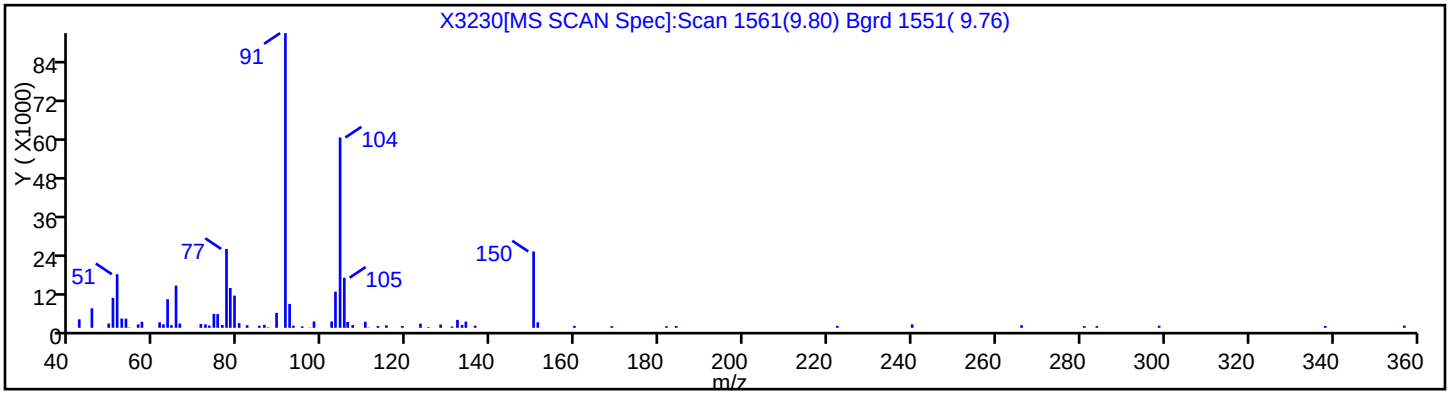


Report Date: 01-Mar-2013 16:46:23 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3230.D		
Injection Date:	21-Dec-2012 13:37:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-502-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	10
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

No Library Matches Found above the Threshold: 85

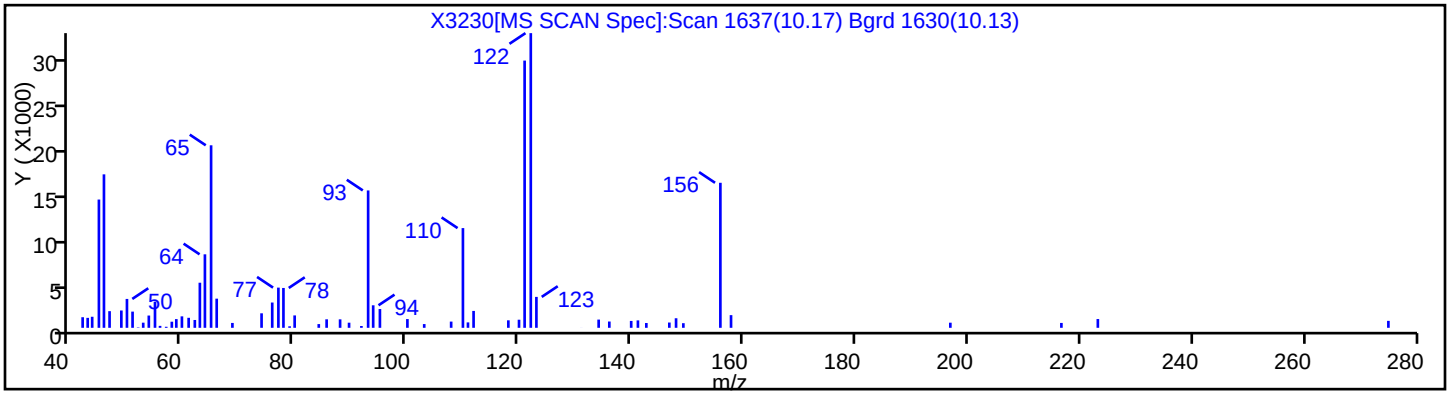


Report Date: 01-Mar-2013 16:46:23 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3230.D		
Injection Date:	21-Dec-2012 13:37:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-502-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	10
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

No Library Matches Found above the Threshold: 85

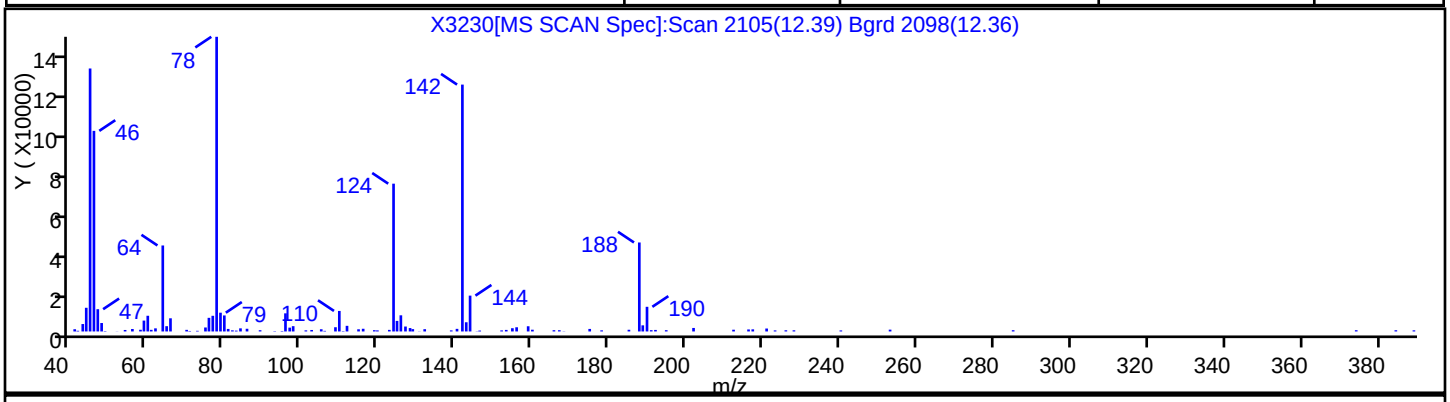


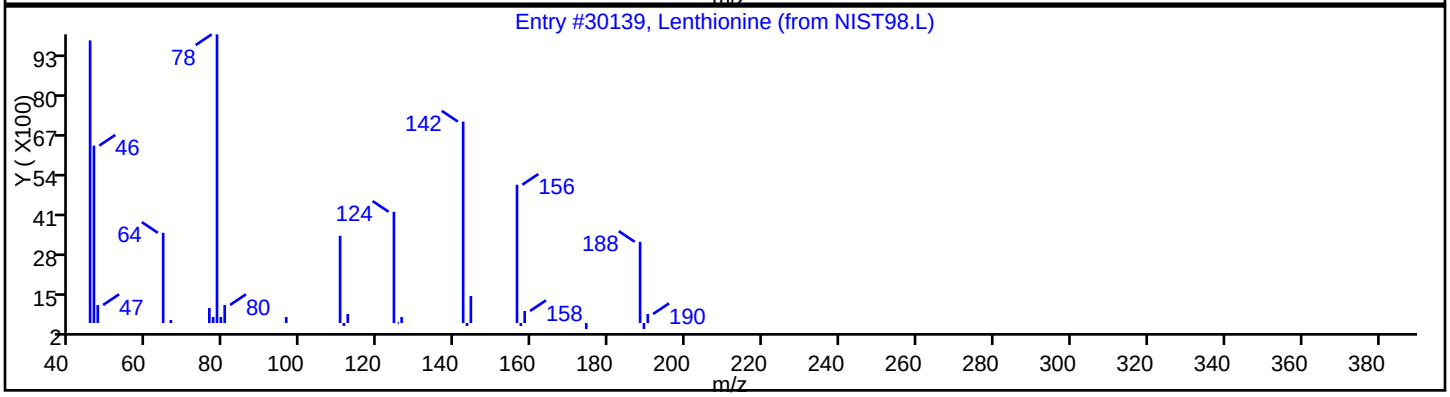
Report Date: 01-Mar-2013 16:46:23 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3230.D		
Injection Date:	21-Dec-2012 13:37:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-502-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	10
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Lenthionine	292-46-6	NIST98.L	30139	94



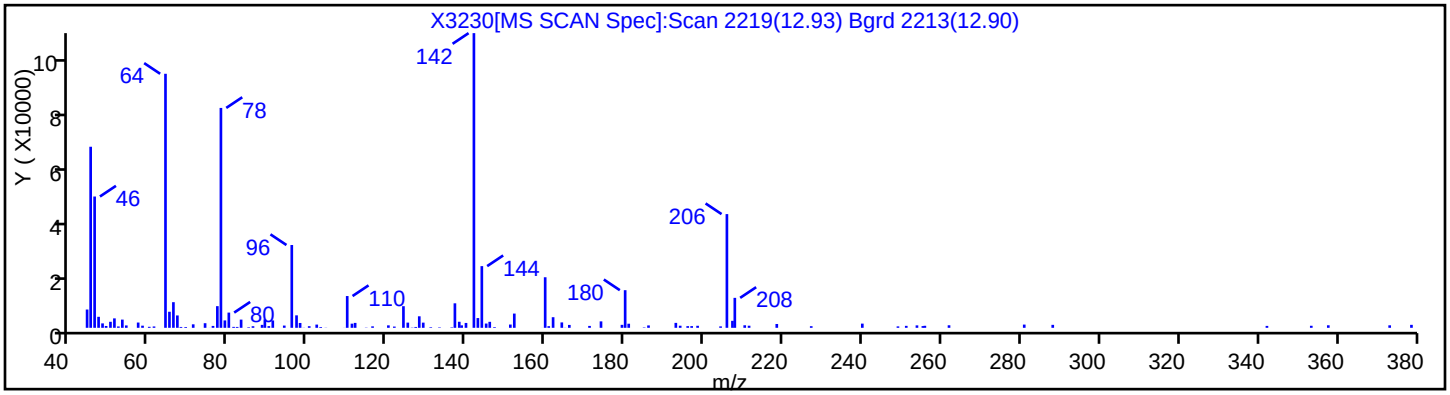


Report Date: 01-Mar-2013 16:46:23 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3230.D		
Injection Date:	21-Dec-2012 13:37:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-502-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	10
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

No Library Matches Found above the Threshold: 85

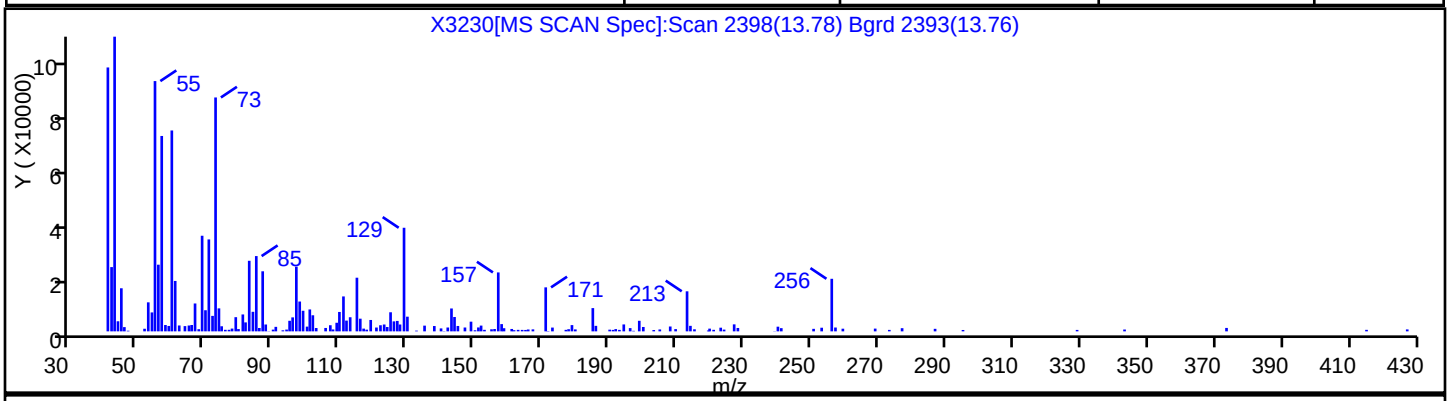


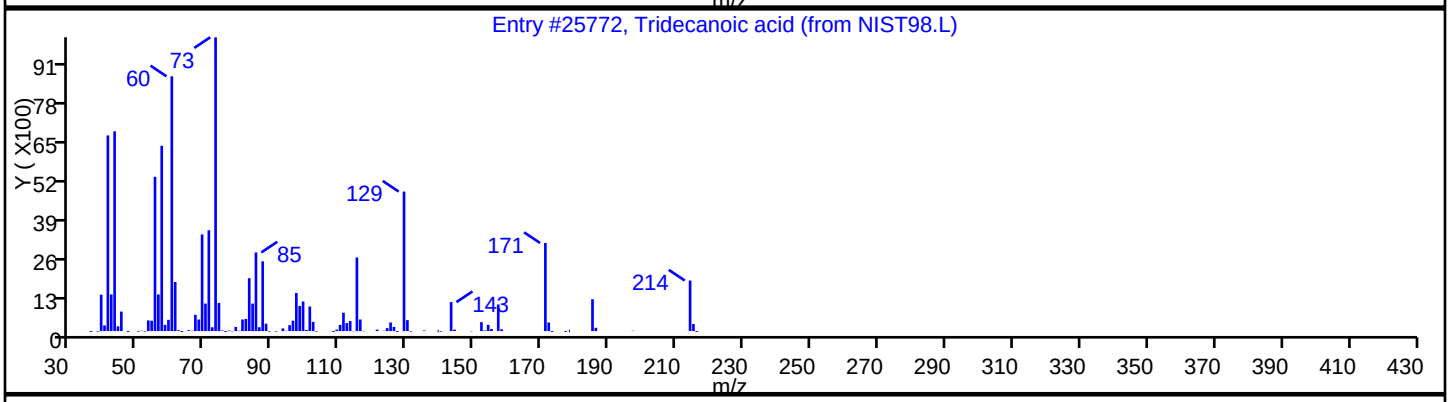
Report Date: 01-Mar-2013 16:46:23 Chrom Revision: 2.0 01-Feb-2013 10:03:10

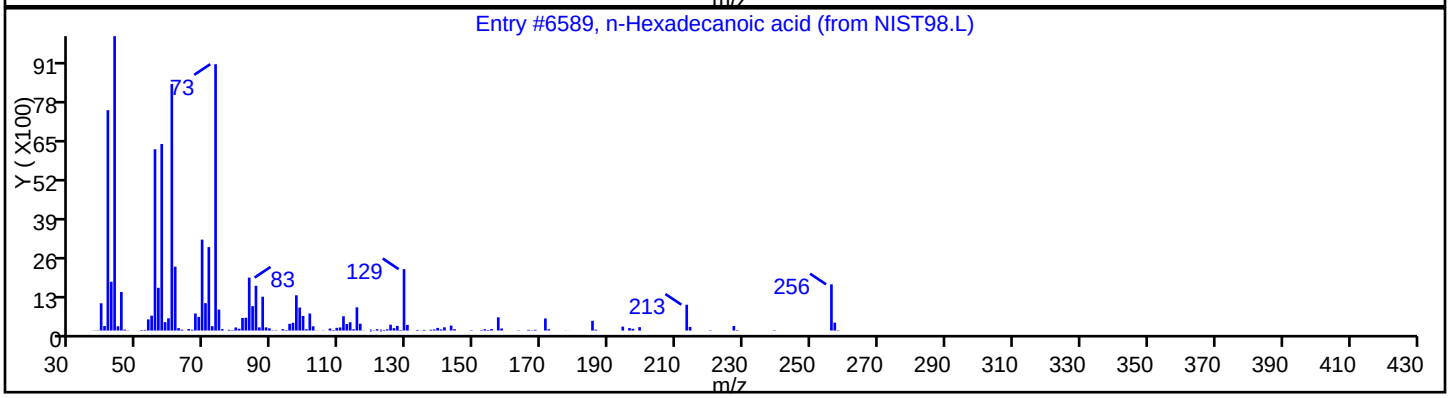
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3230.D		
Injection Date:	21-Dec-2012 13:37:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-502-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	10
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Tridecanoic acid	638-53-9	NIST98.L	25772	94
n-Hexadecanoic acid	57-10-3	NIST98.L	6589	92





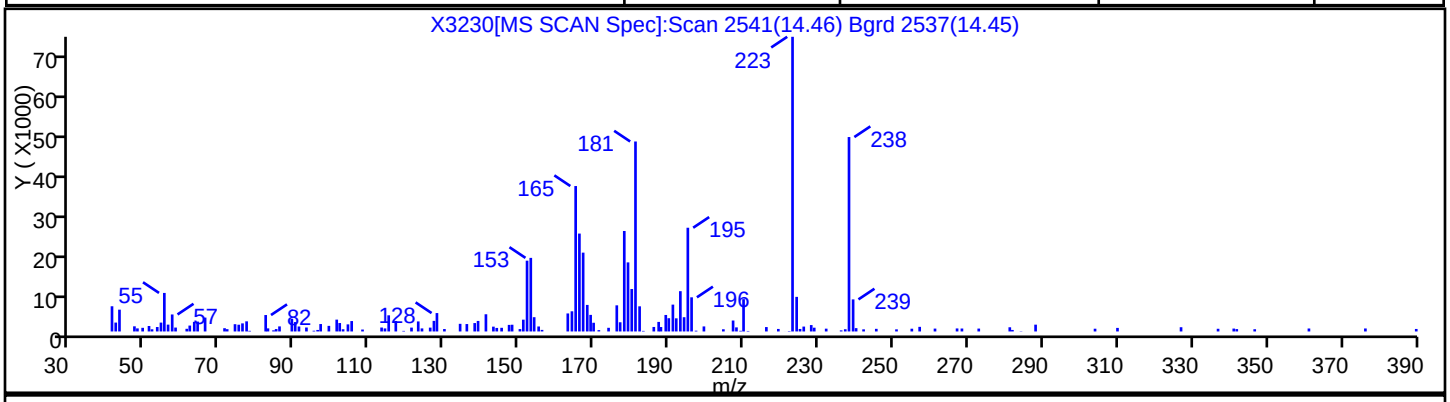


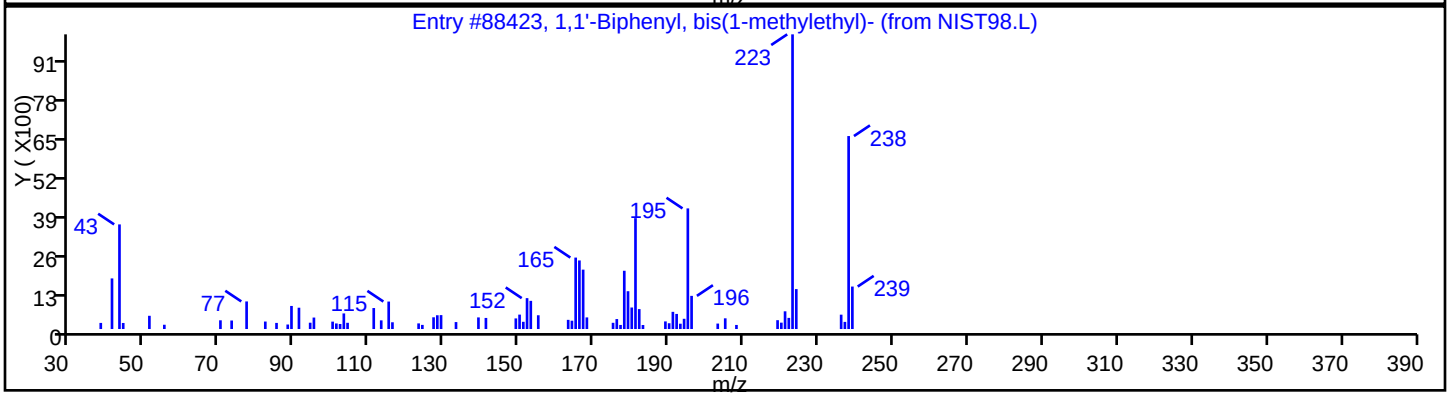
Report Date: 01-Mar-2013 16:46:23 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3230.D		
Injection Date:	21-Dec-2012 13:37:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-502-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	10
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
1,1'-Biphenyl, bis(1-methylethyl)-	69009-90-1	NIST98.L	88423	90



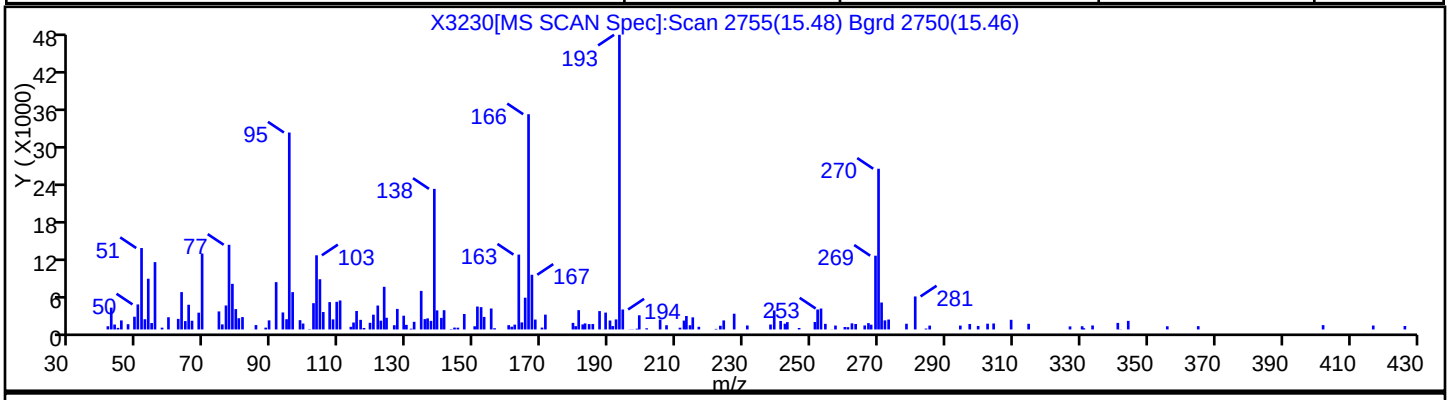


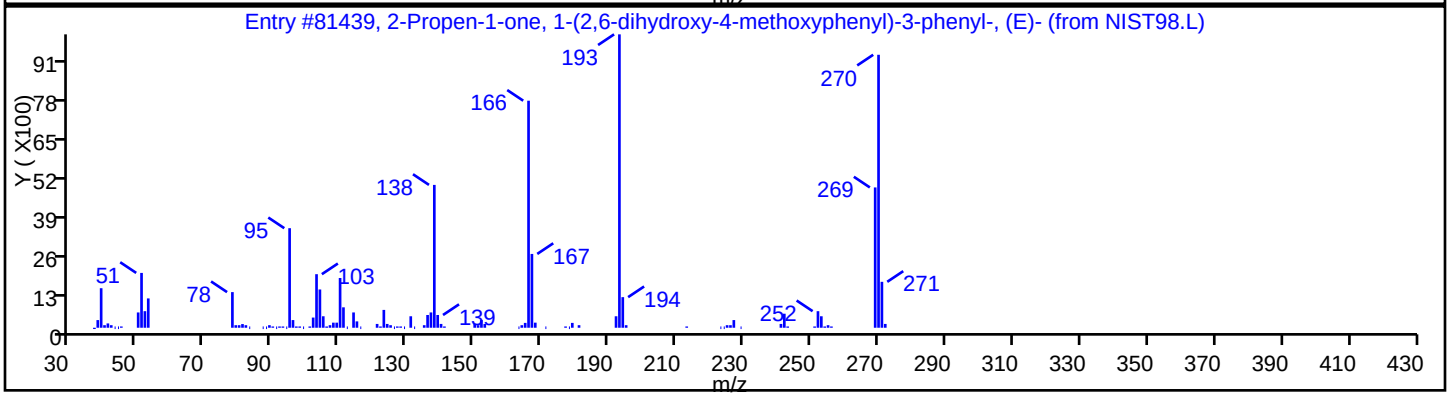
Report Date: 01-Mar-2013 16:46:23 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3230.D		
Injection Date:	21-Dec-2012 13:37:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SD-SD-502-XXX	Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	10
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
2-Propen-1-one, 1-(2,6-dihydroxy-4-metho	18956-15-5	NIST98.L	81439	86





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

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1 Analy Batch No.: 96347

SDG No.:

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/18/2012 11:20 Calibration End Date: 12/18/2012 14:44 Calibration ID: 11641

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-96347/2	X3131.D
Level 2	IC 480-96347/3	X3132.D
Level 3	IC 480-96347/4	X3133.D
Level 4	IC 480-96347/5	X3134.D
Level 5	ICIS 480-96347/6	X3135.D
Level 6	IC 480-96347/7	X3136.D
Level 7	IC 480-96347/8	X3137.D
Level 8	IC 480-96347/9	X3138.D
Level 9	IC 480-96347/10	X3139.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1,4-Dioxane	1.1446 0.5041	0.8665 0.5250	0.5413 0.5050	0.5278 0.5011	0.5174	Lin1	0.0802	0.5017							0.9980		0.9900
N-Nitrosodimethylamine	 0.8863	0.9721 0.9403	0.8865 0.8828	0.9423 0.9235	0.8741	Ave		0.9135				3.9		30.0			
Pyridine	 0.9817	0.9281 1.0386	0.6487 1.0885	1.0226 0.7731	0.9391	Ave		0.9276				16.0		20.0			
Benzaldehyde	 1.0763	0.8473 1.0635	1.0177 1.0438	1.1517 0.9588	0.6811	Ave		0.9800			0.0100	15.0		30.0			
Aniline	 1.9621	1.7270 1.9750	1.6484 2.0098	2.0742 1.4539	1.7951	Ave		1.8307				12.0		20.0			
Phenol	 1.6176	1.2105 1.5984	1.3401 1.6898	1.6689 1.5805	1.4788	Ave		1.5231			0.7000	11.0		20.0			
Bis(2-chloroethyl)ether	 1.2996	0.9554 1.2450	1.1261 1.2943	1.2691 1.2407	1.1621	Ave		1.1990			0.6000	9.7		20.0			
2-Chlorophenol	 1.3902	1.0328 1.3771	1.1884 1.4026	1.4155 1.3326	1.2192	Ave		1.2948			0.8000	10.0		20.0			
1,3-Dichlorobenzene	 1.6085	1.8467 1.5691	1.4347 1.6545	1.7076 1.5294	1.4969	Ave		1.6059				8.1		20.0			
1,4-Dichlorobenzene	1.5059 1.5688	1.5849 1.5964	1.5140 1.7196	1.8613 1.5675	1.5189	Ave		1.6041				7.2		20.0			
1,2-Dichlorobenzene	1.3867 1.5162	1.5735 1.5105	1.3250 1.5810	1.6909 1.4781	1.3998	Ave		1.4957				7.6		20.0			
Benzyl alcohol	 0.5239	0.0364 0.4485	0.2992 0.5167	0.5218 0.6264	0.4876	QuaF		0.3662	0.0123						0.9920		0.9900
2-Methylphenol	 1.1500	0.9015 1.1240	0.9641 1.1845	1.1637 1.1538	1.0531	Ave		1.0868			0.6000	9.6		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 Buffalo Job No.: 480-30406-1 Analy Batch No.: 96347

SDG No.:

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/18/2012 11:20 Calibration End Date: 12/18/2012 14:44 Calibration ID: 11641

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2,2'-oxybis[1-chloropropane]	1.9836	1.9861 1.9409	1.8703 2.0162	2.1042 1.9131	1.7790	Ave		1.9492			0.0100	5.0		20.0			
Acetophenone	1.9842	1.2185 2.0045	1.6976 2.1377	1.9788 1.9992	1.8139	Ave		1.8543			0.0100	16.0		20.0			
Benzoic acid	0.1655	0.0071 0.1959	+++++ 0.1952	0.2298 0.2324	0.1270	QuaF		0.1301	0.0050						0.9920		0.9900
N-Nitrosodi-n-propylamine	1.0109	0.7295 1.0019	0.7441 1.0444	1.0165 1.0149	0.8883	Ave		0.9313			0.0500	14.0		20.0			
4-Methylphenol	1.2207	0.8916 1.1125	1.2212 1.1433	1.0421 1.1314	1.0429	Ave		1.1007			0.6000	9.9		30.0			
Hexachloroethane	1.0621 0.6395	0.7090 0.6404	0.5679 0.6461	0.7448 0.6291	0.5791	Lin1	0.0381	0.6318			0.3000				0.9980		0.9900
Nitrobenzene	0.4279	0.2642 0.4399	0.3276 0.4340	0.4274 0.4091	0.3832	Ave		0.3891			0.1000	16.0		20.0			
Isophorone	0.6864	0.5681 0.7050	0.5370 0.6950	0.6391 0.6600	0.6296	Ave		0.6400			0.3000	9.5		20.0			
2-Nitrophenol	0.1939	0.1212 0.2028	0.1602 0.1960	0.1731 0.2026	0.1670	Ave		0.1771			0.1000	16.0		20.0			
2,4-Dimethylphenol	0.3342	0.2809 0.3341	0.3354 0.3354	0.3478 0.3439	0.3605	Ave		0.3340			0.1000	7.0		20.0			
Bis(2-chloroethoxy)methane	0.4075	0.2317 0.4152	0.4041 0.4034	0.3880 0.4025	0.3802	Ave		0.3791			0.2000	16.0		20.0			
2,4-Dichlorophenol	0.3066	0.1964 0.2983	0.2450 0.2964	0.2878 0.2876	0.2565	Ave		0.2718			0.1000	14.0		20.0			
1,2,4-Trichlorobenzene	0.3405	0.3639 0.3530	0.3136 0.3399	0.3308 0.3238	0.3076	Ave		0.3341				5.7		20.0			
Naphthalene	1.0433 1.1148	1.1736 1.1246	1.1795 1.0861	1.1537 0.9997	1.0933	Ave		1.1076			0.6000	5.4		20.0			
4-Chloroaniline	0.4528	0.3125 0.4651	0.2848 0.4492	0.4034 0.4052	0.4331	Ave		0.4008			0.0100	17.0		20.0			
Hexachlorobutadiene	0.1874	0.1820 0.1882	0.1776 0.1864	0.1989 0.1737	0.1664	Ave		0.1826			0.0100	5.5		20.0			
Caprolactam	0.1052	0.0717 0.1065	0.0797 0.1127	0.1174 0.1059	0.0924	Ave		0.0989			0.0100	16.0		30.0			
4-Chloro-3-methylphenol	0.3246	0.2024 0.3360	0.2488 0.3261	0.3477 0.3128	0.3041	Ave		0.3003			0.2000	16.0		20.0			
2-Methylnaphthalene	0.7940	0.7475 0.8214	0.8013 0.8073	0.7921 0.7341	0.7131	Ave		0.7764			0.4000	5.1		20.0			
1-Methylnaphthalene	0.7108	0.6609 0.7275	0.7706 0.7358	0.7347 0.6868	0.6938	Ave		0.7151				4.8		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 Buffalo Job No.: 480-30406-1 Analy Batch No.: 96347

SDG No.:

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/18/2012 11:20 Calibration End Date: 12/18/2012 14:44 Calibration ID: 11641

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Hexachlorocyclopentadiene	0.2055	0.1874	0.0652 0.2168	0.1030 0.2176	0.1285	QuaF		0.1581	0.0032		0.0500				0.9900		0.9900
1,2,4,5-Tetrachlorobenzene	0.4823	0.3762 0.4675	0.4871 0.4933	0.5467 0.4705	0.4292	Ave		0.4691			0.0100	11.0		20.0			
2,4,6-Trichlorophenol	0.3242	0.2364 0.3093	0.2627 0.3161	0.2925 0.2983	0.2705	Ave		0.2887			0.2000	10.0		20.0			
2,4,5-Trichlorophenol	0.2965	0.2991 0.2843	0.2284 0.2991	0.2939 0.2961	0.2370	Ave		0.2793			0.2000	10.0		20.0			
1,1'-Biphenyl	1.5166	1.4303 1.4888	1.4108 1.4543	1.5191 1.3495	1.3953	Ave		1.4456			0.0100	4.2		30.0			
2-Chloronaphthalene	1.1165	2.3588 1.0884	1.5770 1.1220	1.2997 1.0545	1.1518	Lin1	0.6190	1.0411			0.8000				0.9990		0.9900
Phenyl ether	0.7899	0.7785 0.8072	0.7491 0.7911	0.8294 0.7705	0.7737	Ave		0.7862				3.1		20.0			
2-Nitroaniline	0.3730	0.2955 0.3802	0.2321 0.3895	0.2872 0.3902	0.3015	Ave		0.3311			0.0100	18.0		20.0			
Dimethyl phthalate	1.3521	1.1892 1.3445	1.2515 1.3330	1.3686 1.2838	1.2285	Ave		1.2939			0.0100	5.1		20.0			
2,6-Dinitrotoluene	0.6372	0.4403 0.6256	0.5758 0.6322	0.5890 0.6271	0.5652	Ave		0.5865			0.1000	11.0		20.0			
Acenaphthylene	1.7831	1.7975 1.7740	1.8114 1.7432	1.8577 1.5943	1.6305	Ave		1.7489			0.9000	5.2		20.0			
3-Nitroaniline	0.3249	0.3162	0.2009 0.3472	0.3008 0.3158	0.2334	Ave		0.2913			0.0100	18.0		20.0			
Acenaphthene	1.6440 1.1655	1.2341 1.1730	1.1911 1.1505	1.2142 1.0920	1.0960	Ave		1.2178			0.8000	14.0		20.0			
2,4-Dinitrophenol	0.1390	0.1206	0.0381 0.1419	0.0721 0.1694	0.1014	QuaF		0.0845	0.0021		0.0500				0.9950		0.9900
Dibenzofuran	0.8975 1.5978	1.5941 1.6129	1.5079 1.5539	1.6313 1.4556	1.5187	Ave		1.4855			0.8000	15.0		20.0			
2,4-Dinitrotoluene	0.4263	0.2793 0.3985	0.3821 0.4305	0.3300 0.4160	0.3324	Ave		0.3744			0.2000	15.0		20.0			
4-Nitrophenol	0.2843	0.2750	0.1710 0.2953	0.2357 0.2830	0.2075	Ave		0.2503			0.0500	19.0		20.0			
2,3,4,6-Tetrachlorophenol	0.2711	0.1610 0.2430	0.2472 0.2084	0.2766 0.2102	0.1800	Ave		0.2247			0.0100	19.0		30.0			
Diethyl phthalate	1.4600	1.3432 1.4397	1.4998 1.4111	1.5083 1.3114	1.3609	Ave		1.4168			0.0100	5.2		20.0			
Fluorene	1.4314	1.3086 1.3712	1.3591 1.3621	1.4320 1.2830	1.3218	Ave		1.3586			0.8000	4.0		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 Buffalo Job No.: 480-30406-1 Analy Batch No.: 96347

SDG No.:

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/18/2012 11:20 Calibration End Date: 12/18/2012 14:44 Calibration ID: 11641

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
4-Chlorophenyl phenyl ether	0.6025	0.5804 0.6334	0.6402 0.6023	0.5785 0.5843	0.5921	Ave		0.6017			0.4000	3.9		20.0			
4-Nitroaniline	0.3293	0.0116 0.3263	0.2764 0.3413	0.2853 0.3266	0.2623	Lin1	-0.139	0.3381			0.0100				0.9960		0.9900
4,6-Dinitro-2-methylphenol	0.2297	0.0847 0.2113	0.1009 0.2284	0.1276 0.2272	0.1752	Lin1	-0.224	0.2283			0.0100				0.9920		0.9900
Diphenylamine	0.8148 1.2530	1.1180 1.2436	1.1744 1.2447	1.3298 1.1004	1.1936	Ave		1.1636				13.0		30.0			
N-Nitrosodiphenylamine	0.8073 1.2530	1.1180 1.2436	1.1744 1.2447	1.3298 1.1004	1.1936	Ave		1.1627			0.0100	13.0		20.0			
1,2-Diphenylhydrazine	0.8239	0.6533 0.7937	0.5700 0.8862	0.7848 0.7821	0.7182	Ave		0.7515				13.0		30.0			
Azobenzene	0.8239	0.6408 0.7937	0.5700 0.8862	0.7848 0.7821	0.7182	Ave		0.7500				14.0		20.0			
Benzophenone	1.2173	1.3620 1.2576	1.1096 1.1433	1.3187 1.0671	1.0371	Ave		1.1891				10.0		20.0			
4-Bromophenyl phenyl ether	0.2002	0.1812 0.1882	0.1668 0.2019	0.1956 0.1979	0.1676	Ave		0.1874			0.1000	7.6		20.0			
Hexachlorobenzene	0.0914 0.2037	0.1411 0.1882	0.1769 0.2048	0.2113 0.1960	0.1909	Lin1	-0.013	0.1991			0.1000				0.9980		0.9900
Atrazine	0.3913	0.3743 0.3902	0.3615 0.3736	0.3838 +++++	0.3579	Ave		0.3761			0.0100	3.5		20.0			
Pentachloronitrobenzene	0.1105	0.0525 0.1074	0.0599 0.1106	0.0823 0.1069	0.0928	Lin1	-0.040	0.1102							0.9970		0.9900
Pentachlorophenol	0.1012	0.0610 0.0925	0.0304 0.1057	0.0661 0.1009	0.0794	Lin1	-0.091	0.1020			0.0500				0.9900		0.9900
Phenanthrene	1.0661 1.1266	1.1412 1.1057	1.1507 1.1133	1.2468 0.9950	1.0855	Ave		1.1145			0.6000	6.1		20.0			
Anthracene	1.2584 1.1523	1.0912 1.1445	1.1347 1.1358	1.2202 0.9932	1.0862	Ave		1.1352			0.7000	6.8		20.0			
Carbazole	1.0886	1.0323 1.0810	0.9955 1.0885	1.1037 1.0063	1.0233	Ave		1.0524			0.0100	4.0		20.0			
Di-n-butyl phthalate	0.8812 1.2933	1.2706 1.3087	1.2352 1.2561	1.4167 1.0681	1.2495	Ave		1.2199			0.0100	13.0		20.0			
Fluoranthene	1.1417	0.9614 1.1293	1.1271 1.1437	1.2164 1.0060	1.1024	Ave		1.1035			0.6000	7.4		20.0			
Benzidine	0.5073	0.5032 0.6052	0.6502 0.4930	0.6240 +++++	0.4829	Ave		0.5523				13.0		20.0			
Pyrene	1.3636	1.4057 1.3997	1.3819 1.2855	1.3654 1.2162	1.2995	Ave		1.3397			0.6000	4.9		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 Buffalo Job No.: 480-30406-1 Analy Batch No.: 96347

SDG No.:

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/18/2012 11:20 Calibration End Date: 12/18/2012 14:44 Calibration ID: 11641

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Butyl benzyl phthalate	0.7889	0.7110 0.7915	0.6917 0.7594	0.7276 0.7415	0.7154	Ave		0.7409			0.0100	4.9		20.0			
Bis(2-ethylhexyl) phthalate	1.2693 1.0341	0.9335 1.0747	0.9732 1.0069	0.9953 0.9403	0.9516	Ave		1.0199			0.0100	10.0		20.0			
3,3'-Dichlorobenzidine	0.5004	0.2789 0.5119	0.4161 0.5007	0.4526 0.5075	0.4257	Ave		0.4492			0.0100	17.0		20.0			
Benzo[a]anthracene	1.1846	0.9271 1.2047	0.9780 1.1428	0.9952 1.0840	1.1008	Ave		1.0772			0.6000	9.4		20.0			
Chrysene	1.1158	1.6341 1.1010	1.5279 1.0703	1.2709 1.0217	1.0332	Ave		1.2219			0.6000	19.0		20.0			
Di-n-octyl phthalate	1.9692 1.5724	1.6068 1.6256	1.7034 1.4850	1.5966 1.3512	1.5622	Ave		1.6081			0.0100	10.0		20.0			
Benzo[b]fluoranthene	1.2359	1.1229 1.2490	1.0527 1.2571	1.1363 1.1400	1.0955	Ave		1.1612			0.7000	6.6		20.0			
Benzo[k]fluoranthene	1.2572	1.2473 1.2013	1.0665 1.1883	1.3175 1.0914	1.2025	Ave		1.1965			0.7000	7.0		20.0			
Benzo[a]pyrene	1.3191 1.0922	1.2185 1.1063	1.0511 1.1148	1.1686 1.0185	1.0163	Ave		1.1228			0.7000	8.8		20.0			
Dibenz(a,h)anthracene	1.0692	1.0857 1.0468	0.7776 1.1284	0.9736 1.1260	0.9292	Ave		1.0171			0.4000	12.0		20.0			
Indeno[1,2,3-cd]pyrene	1.2609	1.2168 1.2632	1.0086 1.3366	1.1148 1.2897	1.0962	Ave		1.1984			0.5000	9.4		20.0			
Benzo[g,h,i]perylene	1.0433	0.9328 0.9358	1.0166 1.1034	0.8922 1.1261	0.9496	Ave		1.0000			0.4000	8.6		20.0			
2-Fluorophenol	1.2039	0.8591 1.2120	1.1028 1.2662	1.1340 1.2096	1.0896	Ave		1.1347				11.0		20.0			
Phenol-d5	1.5520	0.8526 1.4387	1.4304 1.5765	1.3722 1.5057	1.3196	Ave		1.3810				17.0		20.0			
Nitrobenzene-d5	0.4043	0.2477 0.4170	0.3411 0.4256	0.3835 0.4061	0.3738	Ave		0.3749				15.0		20.0			
2-Fluorobiphenyl	1.3635	1.0456 1.2785	1.2561 1.3214	1.3151 1.2267	1.2316	Ave		1.2548				7.7		20.0			
2,4,6-Tribromophenol	0.0946	0.0866 0.0940	0.0800 0.1052	0.0901 0.0931	0.0923	Ave		0.0920				7.8		20.0			
p-Terphenyl-d14	1.0184	1.0126 1.0095	0.8597 0.9759	0.9864 0.9330	0.9171	Ave		0.9641				5.8		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1 Analy Batch No.: 96347

SDG No.:

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/18/2012 11:20 Calibration End Date: 12/18/2012 14:44 Calibration ID: 11641

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-96347/2	X3131.D
Level 2	IC 480-96347/3	X3132.D
Level 3	IC 480-96347/4	X3133.D
Level 4	IC 480-96347/5	X3134.D
Level 5	ICIS 480-96347/6	X3135.D
Level 6	IC 480-96347/7	X3136.D
Level 7	IC 480-96347/8	X3137.D
Level 8	IC 480-96347/9	X3138.D
Level 9	IC 480-96347/10	X3139.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,4-Dioxane	DCB	Lin1	5050 274129	19150 238920	25494 349464	51855 511598	123654	0.100 8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
N-Nitrosodimethylamine	DCB	Ave	 481999	21483 427954	41753 610901	92572 942927	208910	 8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Pyridine	DCB	Ave	 533896	20512 472669	30554 753190	100467 789371	224441	 8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Benzaldehyde	DCB	Ave	 585331	18726 484031	47929 722290	113145 978974	162790	 8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Aniline	DCB	Ave	 1067055	38168 898855	77634 1390701	203774 1484543	429032	 8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Phenol	DCB	Ave	 879706	26753 727444	63116 1169263	163955 1613726	353444	 8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Bis(2-chloroethyl)ether	DCB	Ave	 706760	21116 566636	53034 895601	124678 1266802	277749	 8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
2-Chlorophenol	DCB	Ave	 756039	22826 626749	55968 970541	139058 1360622	291390	 8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
1,3-Dichlorobenzene	DCB	Ave	 874752	40813 714124	67570 1144885	167759 1561543	357774	 8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
1,4-Dichlorobenzene	DCB	Ave	6644 853150	35027 726551	71304 1189909	182861 1600502	363036	0.100 8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
1,2-Dichlorobenzene	DCB	Ave	6118 824565	34776 687435	62406 1093976	166114 1509239	334550	0.100 8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Benzyl alcohol	DCB	QuaF	 284927	804 204121	14091 357574	51260 639595	116541	 8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
2-Methylphenol	DCB	Ave	 625380	19924 511538	45407 819659	114323 1178092	251708	 8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
2,2'-oxybis[1-chloropropane]	DCB	Ave	 1078723	43894 883332	88085 1395123	206722 1953355	425189	 8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00

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

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1 Analy Batch No.: 96347

SDG No.:

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/18/2012 11:20 Calibration End Date: 12/18/2012 14:44 Calibration ID: 11641

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Acetophenone	DCB	Ave	1079098	26930 912298	79952 1479202	194399 2041251	433526	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Benzoic acid	NPT	QuaF	336624	577 323222	+++++ 519009	89300 890624	114208	8.00	0.500 10.0	+++++ 15.0	2.50 20.0	5.00
N-Nitrosodi-n-propylamine	DCB	Ave	549733	16123 455997	35043 722699	99867 1036267	212308	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
4-Methylphenol	DCB	Ave	663847	19705 506328	57517 791119	102383 1155222	249264	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Hexachloroethane	DCB	Lin1	4686 347801	15669 291465	26747 447097	73168 642324	138413	0.100 8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Nitrobenzene	NPT	Ave	870162	21483 725852	55225 1153942	166093 1567636	344606	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Isophorone	NPT	Ave	1395972	46194 1163254	90545 1848060	248371 2529047	566208	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
2-Nitrophenol	NPT	Ave	394353	9854 334536	27016 521090	67259 776160	150183	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
2,4-Dimethylphenol	NPT	Ave	679754	22845 551253	56555 891742	135144 1317566	324231	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Bis(2-chloroethoxy)methane	NPT	Ave	828733	18841 684999	68136 1072679	150792 1542456	341969	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
2,4-Dichlorophenol	NPT	Ave	623483	15967 492239	41301 788203	111825 1102161	230653	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
1,2,4-Trichlorobenzene	NPT	Ave	692492	29590 582458	52870 903943	128556 1240609	276669	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Naphthalene	NPT	Ave	15303 2267220	95430 1855626	198868 2887977	448321 3830652	983298	0.100 8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
4-Chloroaniline	NPT	Ave	920833	25413 767419	48018 1194419	156755 1552735	389521	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Hexachlorobutadiene	NPT	Ave	381102	14803 310593	29942 495575	77304 665576	149687	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Caprolactam	NPT	Ave	213982	5831 175706	13444 299627	45612 405696	83067	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
4-Chloro-3-methylphenol	NPT	Ave	660073	16457 554322	41948 866986	135114 1198666	273525	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
2-Methylnaphthalene	NPT	Ave	1614748	60786 1355238	135097 2146729	307828 2812964	641367	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
1-Methylnaphthalene	NPT	Ave	1445623	53740 1200320	129919 1956456	285503 2631760	623980	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Hexachlorocyclopentadiene	ANT	QuaF	268404	204383	6833 378558	25663 543807	74568	8.00	10.0	1.00 15.0	2.50 20.0	5.00
1,2,4,5-Tetrachlorobenzene	ANT	Ave	629812	18475 509829	51072 861450	136160 1175625	249086	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00

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

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1 Analy Batch No.: 96347

SDG No.:

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/18/2012 11:20 Calibration End Date: 12/18/2012 14:44 Calibration ID: 11641

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
2,4,6-Trichlorophenol	ANT	Ave		11611	27547	72851	156965		0.500	1.00	2.50	5.00
			423301	337292	551924	745358		8.00	10.0	15.0	20.0	
2,4,5-Trichlorophenol	ANT	Ave		14692	23950	73198	137551		0.500	1.00	2.50	5.00
			387150	310061	522303	739930		8.00	10.0	15.0	20.0	
1,1'-Biphenyl	ANT	Ave		70247	147932	378332	809768		0.500	1.00	2.50	5.00
			1980431	1623648	2539483	3372086		8.00	10.0	15.0	20.0	
2-Chloronaphthalene	ANT	Lin1		115849	165356	323689	668430		0.500	1.00	2.50	5.00
			1457956	1187040	1959232	2635052		8.00	10.0	15.0	20.0	
Phenyl ether	ANT	Ave		38232	78549	206565	449001		0.500	1.00	2.50	5.00
			1031531	880313	1381412	1925297		8.00	10.0	15.0	20.0	
2-Nitroaniline	ANT	Ave		14515	24342	71533	174954		0.500	1.00	2.50	5.00
			487023	414625	680120	974942		8.00	10.0	15.0	20.0	
Dimethyl phthalate	ANT	Ave		58407	131233	340849	712993		0.500	1.00	2.50	5.00
			1765594	1466290	2327603	3207926		8.00	10.0	15.0	20.0	
2,6-Dinitrotoluene	ANT	Ave		21625	60374	146693	327996		0.500	1.00	2.50	5.00
			832086	682331	1103880	1566924		8.00	10.0	15.0	20.0	
Acenaphthylene	ANT	Ave		88280	189943	462652	946253		0.500	1.00	2.50	5.00
			2328468	1934738	3043882	3983727		8.00	10.0	15.0	20.0	
3-Nitroaniline	ANT	Ave			21070	74904	135474			1.00	2.50	5.00
			424215	344877	606310	789115		8.00	10.0	15.0	20.0	
Acenaphthene	ANT	Ave	17157	60610	124892	302406	636064	0.100	0.500	1.00	2.50	5.00
			1522028	1279309	2009024	2728770		8.00	10.0	15.0	20.0	
2,4-Dinitrophenol	ANT	QuaF			7990	35900	117671			2.00	5.00	10.0
			362929	263071	495556	846602		16.0	20.0	30.0	40.0	
Dibenzofuran	ANT	Ave	9367	78290	158117	406272	881367	0.100	0.500	1.00	2.50	5.00
			2086550	1759046	2713459	3637301		8.00	10.0	15.0	20.0	
2,4-Dinitrotoluene	ANT	Ave		13719	40061	82195	192907		0.500	1.00	2.50	5.00
			556737	434611	751696	1039381		8.00	10.0	15.0	20.0	
4-Nitrophenol	ANT	Ave			35867	117392	240901			2.00	5.00	10.0
			742608	599830	1031347	1414081		16.0	20.0	30.0	40.0	
2,3,4,6-Tetrachlorophenol	ANT	Ave		7906	25922	68881	104485		0.500	1.00	2.50	5.00
			354070	265067	363823	525225		8.00	10.0	15.0	20.0	
Diethyl phthalate	ANT	Ave		65968	157267	375633	789783		0.500	1.00	2.50	5.00
			1906615	1570153	2463981	3276872		8.00	10.0	15.0	20.0	
Fluorene	ANT	Ave		64267	142510	356637	767084		0.500	1.00	2.50	5.00
			1869207	1495486	2378424	3205979		8.00	10.0	15.0	20.0	
4-Chlorophenyl phenyl ether	ANT	Ave		28503	67135	144079	343625		0.500	1.00	2.50	5.00
			786759	690804	1051673	1460150		8.00	10.0	15.0	20.0	
4-Nitroaniline	ANT	Lin1		571	28981	71047	152208		0.500	1.00	2.50	5.00
			429983	355912	596014	816043		8.00	10.0	15.0	20.0	
4,6-Dinitro-2-methylphenol	ANT	Lin1		8320	21166	63572	203339		1.00	2.00	5.00	10.0
			599821	460957	797804	1135498		16.0	20.0	30.0	40.0	

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

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1 Analy Batch No.: 96347

SDG No.:

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/18/2012 11:20 Calibration End Date: 12/18/2012 14:44 Calibration ID: 11641

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Diphenylamine	PHN	Ave	14149 2811342	101850 2356835	224688 3579551	553188 4516590	1192504	0.100 8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
N-Nitrosodiphenylamine	PHN	Ave	14018 2811342	101850 2356835	224688 3579551	553188 4516590	1192504	0.100 8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
1,2-Diphenylhydrazine	PHN	Ave	 1848610	59521 1504259	109056 2548510	326470 3210046	717552	 8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Azobenzene	PHN	Ave	 1848610	58380 1504259	109056 2548510	326470 3210046	717552	 8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Benzophenone	ANT	Ave	 1589648	66890 1371516	116350 1996456	328414 2666580	601879	 8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
4-Bromophenyl phenyl ether	PHN	Ave	 449135	16508 356637	31913 580487	81359 812265	167439	 8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Hexachlorobenzene	PHN	Lin1	1588 457006	12854 356606	33846 589002	87913 804600	190748	0.100 8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Atrazine	ANT	Ave	 1022023	36768 851009	75813 1304842	191176 +++++	415457	 16.0	1.00 20.0	2.00 30.0	5.00 +++++	10.0
Pentachloronitrobenzene	PHN	Lin1	 248006	4787 203475	11461 318145	34231 438981	92665	 8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Pentachlorophenol	PHN	Lin1	 454013	11106 350777	11624 608194	54999 828322	158642	 16.0	1.00 20.0	2.00 30.0	5.00 40.0	10.0
Phenanthrene	PHN	Ave	18513 2527721	103962 2095399	220154 3201534	518661 4084154	1084497	0.100 8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Anthracene	PHN	Ave	21852 2585516	99410 2168904	217098 3266266	507614 4076574	1085154	0.100 8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Carbazole	PHN	Ave	 2442448	94048 2048671	190469 3130446	459119 4130457	1022385	 8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Di-n-butyl phthalate	PHN	Ave	15302 2901712	115750 2480138	236333 3612267	589349 4384075	1248342	0.100 8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Fluoranthene	PHN	Ave	 2561675	87590 2140236	215639 3288993	506028 4129184	1101355	 8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Benzidine	CRY	Ave	 967877	41270 948443	107316 1260094	241214 +++++	420563	 8.00	0.500 10.0	1.00 15.0	2.50 +++++	5.00
Pyrene	CRY	Ave	 2601583	115288 2193396	228073 3285656	527811 4232522	1131711	 8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Butyl benzyl phthalate	CRY	Ave	 1505198	58314 1240379	114162 1940877	281281 2580426	623033	 8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Bis(2-ethylhexyl) phthalate	CRY	Ave	20666 1973002	76558 1684176	160627 2573585	384752 3272340	828734	0.100 8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
3,3'-Dichlorobenzidine	CRY	Ave	 954780	22877 802227	68680 1279655	174974 1766084	370716	 8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Benzo[a]anthracene	CRY	Ave	 2260080	76037 1887844	161424 2920963	384718 3772548	958718	 8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00

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

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1 Analy Batch No.: 96347

SDG No.:

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/18/2012 11:20 Calibration End Date: 12/18/2012 14:44 Calibration ID: 11641

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Chrysene	CRY	Ave	2128833	134023 1725366	252184 2735712	491288 3555688	899840	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Di-n-octyl phthalate	CRY	Ave	32062 3000016	131786 2547438	281150 3795638	617182 4702329	1360557	0.100 8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Benzo[b]fluoranthene	PRY	Ave	2362892	86485 1995763	174956 3136607	421949 4108649	958574	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Benzo[k]fluoranthene	PRY	Ave	2403639	96066 1919421	177253 2965033	489235 3933673	1052157	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Benzo[a]pyrene	PRY	Ave	20183 2088226	93850 1767745	174699 2781641	433943 3670790	889246	0.100 8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Dibenz(a,h)anthracene	PRY	Ave	2044151	83623 1672694	129231 2815421	361538 4058513	813075	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Indeno[1,2,3-cd]pyrene	PRY	Ave	2410742	93718 2018453	167625 3334925	413973 4648434	959184	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Benzo[g,h,i]perylene	PRY	Ave	1994596	71847 1495294	168957 2753072	331317 4058645	830876	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
2-Fluorophenol	DCB	Ave	654708	18987 551618	51938 876197	111406 1235087	260416	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Phenol-d5	DCB	Ave	844048	18843 654753	67367 1090919	134813 1537425	315382	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Nitrobenzene-d5	NPT	Ave	822289	20141 688051	57504 1131674	149020 1556096	336143	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
2-Fluorobiphenyl	ANT	Ave	1780602	51351 1394341	131707 2307495	327537 3065397	714759	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
2,4,6-Tribromophenol	PHN	Ave	212336	7887 178118	15302 302392	37478 382130	92242	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
p-Terphenyl-d14	CRY	Ave	1943117	83050 1581956	141897 2494236	381301 3246910	798713	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
QuaF = Quadratic ISTD forced zero

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3131.D		
Lims ID:	IC - 0.1	Client ID:	
Inject. Date:	18-Dec-2012 11:20:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	480-0017654-002		
Misc. Info.:			
Operator:	ANM	Instrument ID:	HP5973X
Injection Vol:	1.0 ul	ALS Bottle#:	3
Lims Batch ID:	96347	Lims Sample ID:	2
Sublist:	chrom-X-8270LL*sub20		
Detector:	MS SCAN		

Method:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X-8270LL.m		
Last Update:	18-Dec-2012 16:42:56	Calib Date:	18-Dec-2012 14:44:30
Quant Method:	Internal Standard	Quant By:	Continuing Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3139.D		
Limit Group:	MB - 8270RCP_MCP ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm
Process Host:	XAWRK017		

First Level Reviewer: mckernar Date: 18-Dec-2012 16:42:56

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.570	6.594	-0.024	88	220598	5.00	
* 2 Naphthalene-d8	136	8.472	8.486	-0.014	97	733426	5.00	
* 3 Acenaphthene-d10	164	11.126	11.116	0.010	87	521822	5.00	
* 4 Phenanthrene-d10	188	13.152	13.128	0.024	96	868246	5.00	
* 5 Chrysene-d12	240	15.801	15.767	0.034	98	814091	5.00	
* 6 Perylene-d12	264	17.094	17.051	0.043	98	765031	5.00	
$ 7 2-Fluorophenol	112		4.701					9
$ 8 Phenol-d5	99		6.118					9
$ 9 Nitrobenzene-d5	82		7.435					9
$ 10 2-Fluorobiphenyl	172		10.127					9
$ 11 2,4,6-Tribromophenol	330		12.291					9
$ 12 p-Terphenyl-d14	244		14.802					9
18 1,4-Dioxane	88	2.447	2.466	-0.019	8	5050	0.0683	
19 N-Nitrosodimethylamine	42		2.813					
20 Pyridine	52		2.908					
21 Benzaldehyde	77		5.961					
23 Aniline	93		6.128					
22 Phenol	94		6.142					
24 Bis(2-chloroethyl)ether	93		6.223					
25 2-Chlorophenol	128		6.294					
26 1,3-Dichlorobenzene	146		6.503					
27 1,4-Dichlorobenzene	146	6.594	6.622	-0.028	1	6644	0.0939	
29 1,2-Dichlorobenzene	146	6.813	6.841	-0.028	19	6118	0.0927	
28 Benzyl alcohol	108		6.846					
32 2,2'-oxybis[1-chloropropane]	45		7.022					
31 2-Methylphenol	108		7.031					
33 Acetophenone	105		7.212					
34 N-Nitrosodi-n-propylamine	70		7.217					
36 4-Methylphenol	108		7.288					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
37 Hexachloroethane	117	7.298	7.331	-0.033	11	4686	0.1078	
38 Nitrobenzene	77		7.464					
40 Isophorone	82		7.821					
41 2-Nitrophenol	139		7.939					
43 2,4-Dimethylphenol	107		8.058					
45 Bis(2-chloroethoxy)methane	93		8.177					
44 Benzoic acid	105		8.268					
47 2,4-Dichlorophenol	162		8.358					
48 1,2,4-Trichlorobenzene	180		8.410					
49 Naphthalene	128	8.501	8.520	-0.019	1	15303	0.0942	
51 4-Chloroaniline	127		8.662					
52 Hexachlorobutadiene	225		8.710					
54 Caprolactam	113		9.209					
55 4-Chloro-3-methylphenol	107		9.466					
56 2-Methylnaphthalene	142		9.566					
57 1-Methylnaphthalene	142		9.709					
58 Hexachlorocyclopentadiene	237		9.794					
59 1,2,4,5-Tetrachlorobenzene	216		9.818					
60 2,4,6-Trichlorophenol	196		10.037					
61 2,4,5-Trichlorophenol	196		10.146					
62 1,1'-Biphenyl	154		10.274					
63 2-Chloronaphthalene	162		10.317					
64 Phenyl ether	170		10.436					
65 2-Nitroaniline	65		10.512					
66 1,4-Dinitrobenzene	75		10.755					
67 Dimethyl phthalate	163		10.779					
68 2,6-Dinitrotoluene	165		10.864					
69 Acenaphthylene	152		10.907					
70 3-Nitroaniline	138		11.159					
71 Acenaphthene	153	11.178	11.169	0.009	0	17157	0.1350	M
72 2,4-Dinitrophenol	184		11.349					
73 Dibenzofuran	168	11.521	11.440	0.081	29	9367	0.0604	
74 2,4-Dinitrotoluene	165		11.492					
75 4-Nitrophenol	109		11.611					
76 2,3,4,6-Tetrachlorophenol	232		11.668					
78 Diethyl phthalate	149		11.825					
79 Fluorene	166		11.934					
80 4-Chlorophenyl phenyl ether	204		11.953					
81 4-Nitroaniline	138		12.067					
82 4,6-Dinitro-2-methylphenol	198		12.082					
84 Diphenylamine	169	12.186	12.124	0.062	39	14149	0.0700	M
83 N-Nitrosodiphenylamine	169	12.186	12.124	0.062	39	14018	0.0694	M
16 1,2-Diphenylhydrazine	77		12.167					
85 Azobenzene	77		12.167					
86 Benzophenone	105		12.191					
89 4-Bromophenyl phenyl ether	248		12.595					
91 Hexachlorobenzene	284	12.686	12.652	0.034	9	1588	0.1135	
92 Simazine	201		12.809					
93 Atrazine	200		12.838					
95 Pentachloronitrobenzene	237		12.923					
94 Pentachlorophenol	266		12.933					
97 Phenanthrene	178	13.180	13.156	0.024	11	18513	0.0957	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
98 Anthracene	178	13.285	13.218	0.067	0	21852	0.1109	M
99 Carbazole	167		13.427					
101 Alachlor	160		13.565					
102 Di-n-butyl phthalate	149	13.846	13.803	0.043	58	15302	0.0722	
104 Fluoranthene	202		14.431					
105 Benzidine	184		14.597					
106 Pyrene	202		14.654					
107 Famphur	218		15.201					
108 Butyl benzyl phthalate	149		15.244					
110 Bis(2-ethylhexyl) phthalate	149	15.767	15.734	0.033	65	20666	0.1245	
109 3,3'-Dichlorobenzidine	252		15.743					
111 Benzo[a]anthracene	228		15.753					
112 Chrysene	228		15.791					
113 Di-n-octyl phthalate	149	16.305	16.271	0.034	57	32062	0.1225	
114 Benzo[b]fluoranthene	252		16.695					
115 Benzo[k]fluoranthene	252		16.718					
116 Benzo[a]pyrene	252	17.085	17.004	0.081	0	20183	0.1175	M
118 Dibenz(a,h)anthracene	278		18.150					
117 Indeno[1,2,3-cd]pyrene	276		18.150					
119 Benzo[g,h,i]perylene	276		18.468					
S 121 3-Methylphenol	1		0.000					

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

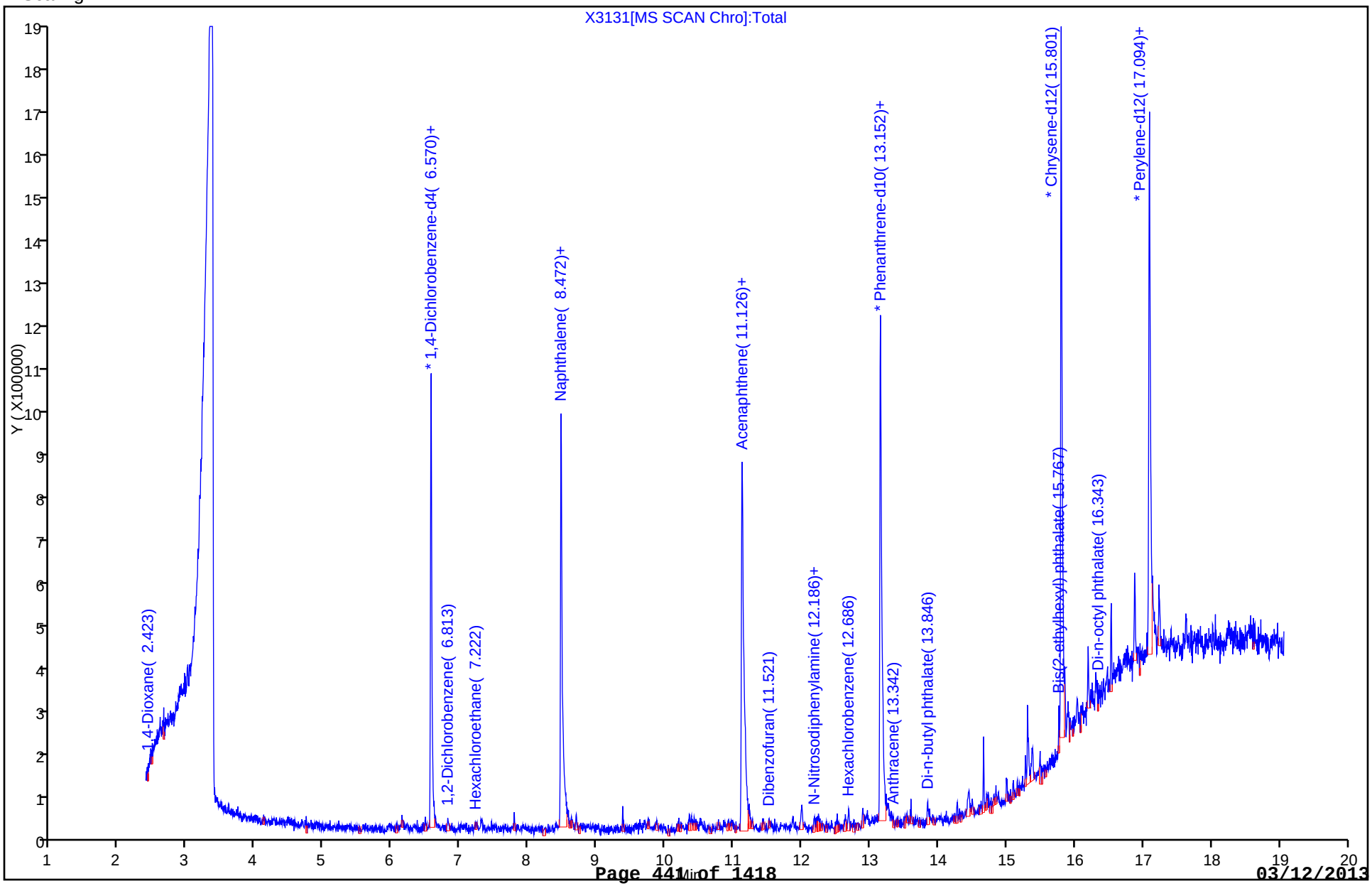
Review Flags
M - Manually Integrated

Report Date: 18-Dec-2012 16:42:57 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3131.D		
Injection Date:	18-Dec-2012 11:20:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	2
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Y Scaling:



Report Date: 18-Dec-2012 16:42:57 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

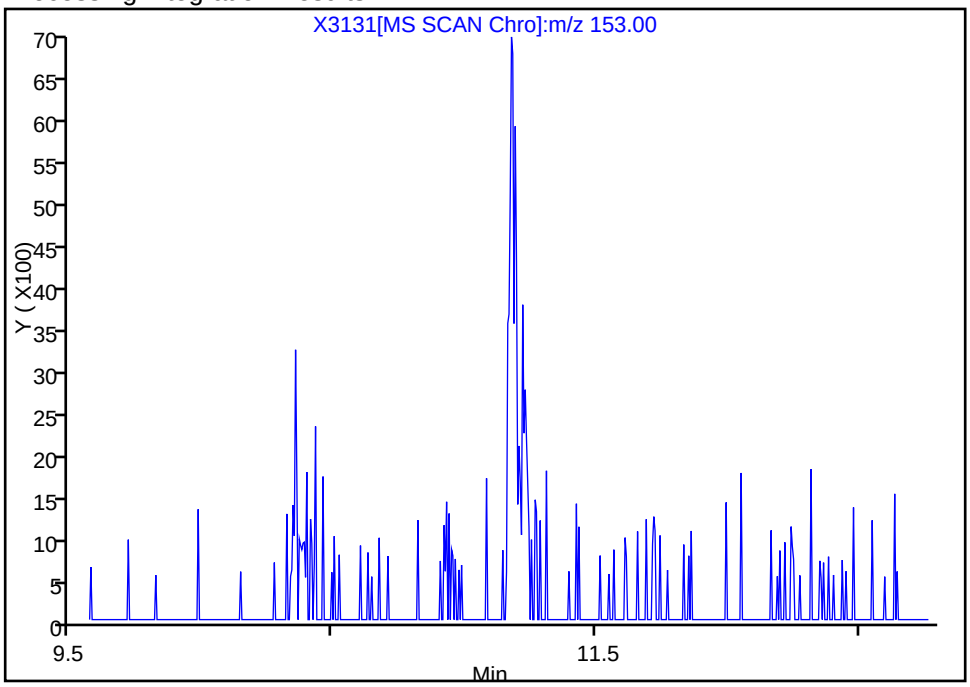
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3131.D		
Injection Date:	18-Dec-2012 11:20:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	2
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

71 Acenaphthene, Signal: 1, m/z: 153.0 Type: quant, RT: 11.17

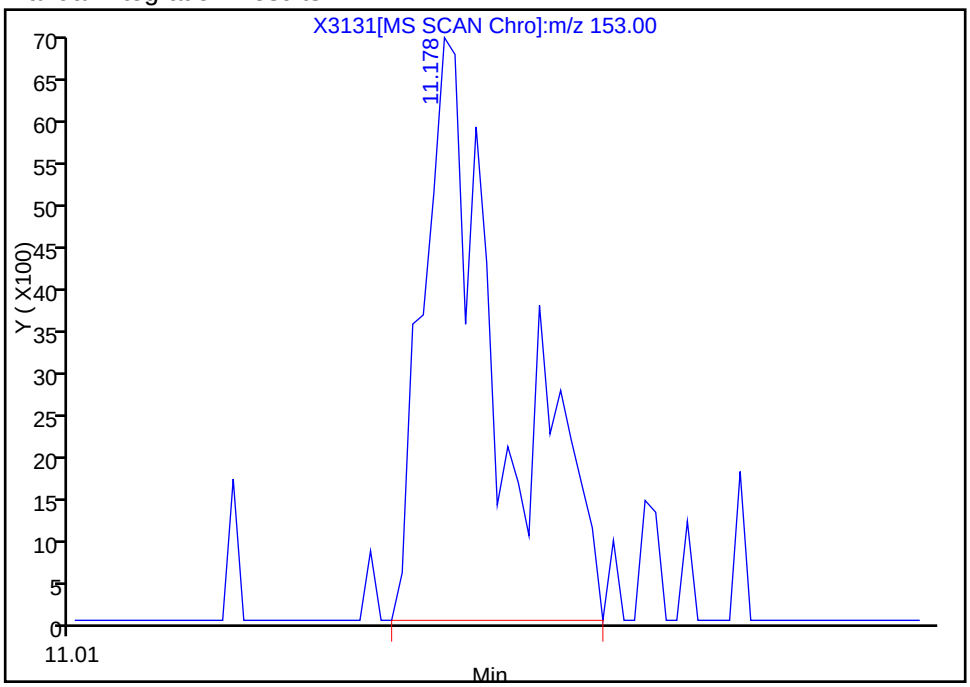
Processing Integration Results

Not Detected
Expected RT: 11.17



Manual Integration Results

RT: 11.18
Response: 17157
Amount: 0.134990



Reviewer: mckernar, 18-Dec-2012 11:48:41
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:42:57 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

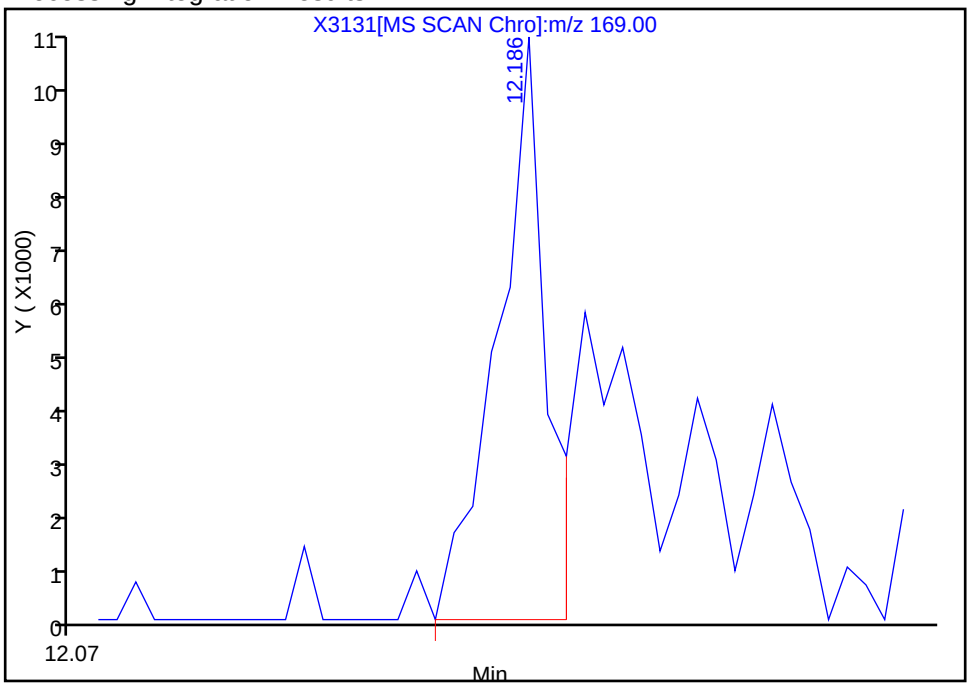
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3131.D		
Injection Date:	18-Dec-2012 11:20:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	2
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

84 Diphenylamine, Signal: 1, m/z: 169.0 Type: quant, RT: 12.12

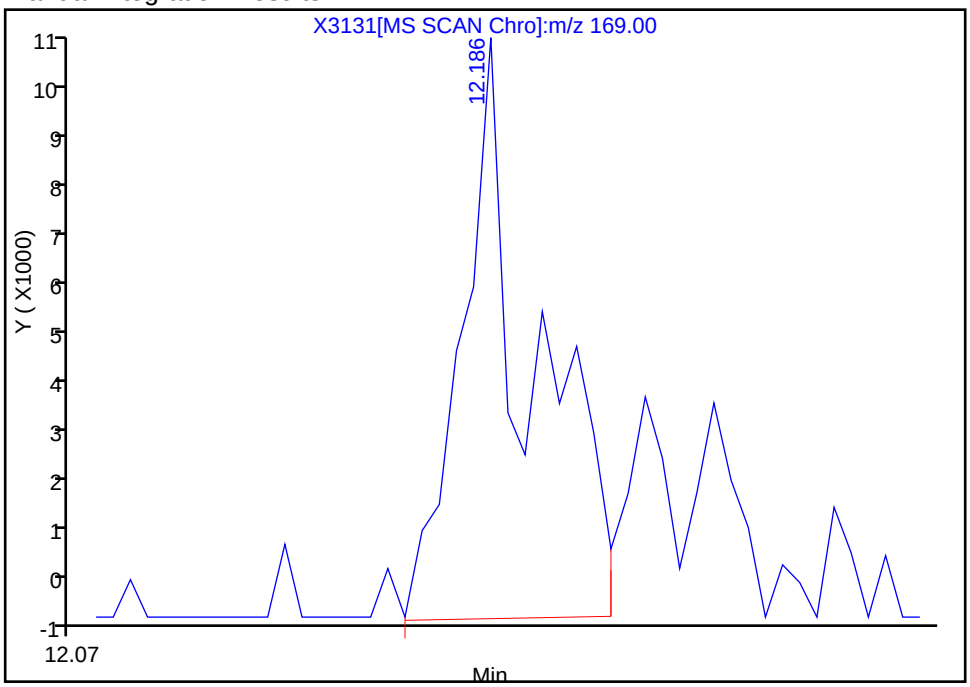
Processing Integration Results

RT: 12.19
Response: 8802
Amount: 0.100000



Manual Integration Results

RT: 12.19
Response: 14149
Amount: 0.070025



Reviewer: mckernar, 18-Dec-2012 11:48:41
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:42:57 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

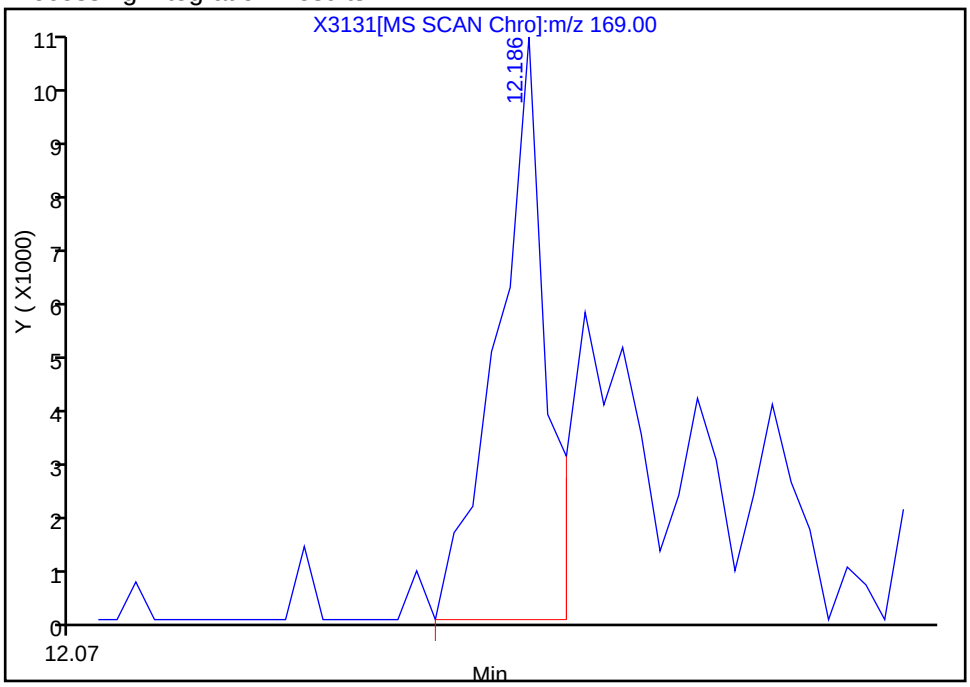
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3131.D		
Injection Date:	18-Dec-2012 11:20:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	2
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

83 N-Nitrosodiphenylamine, Signal: 1, m/z: 169.0 Type: quant, RT: 12.12

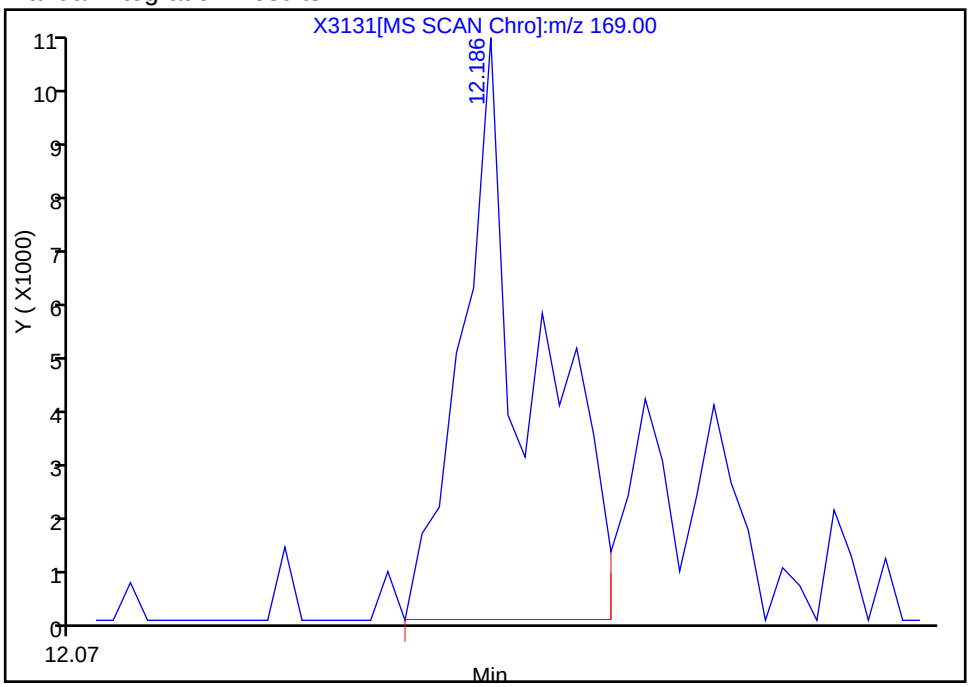
Processing Integration Results

RT: 12.19
Response: 8802
Amount: 0.100000



Manual Integration Results

RT: 12.19
Response: 14018
Amount: 0.069427



Reviewer: mckernar, 18-Dec-2012 11:48:41
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:42:57 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

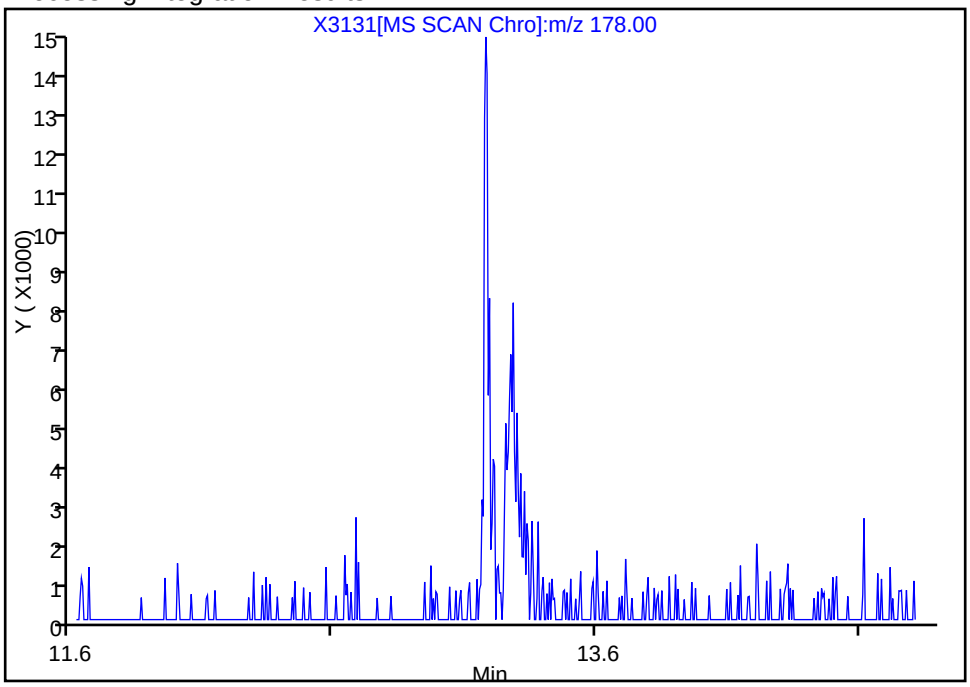
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3131.D		
Injection Date:	18-Dec-2012 11:20:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	2
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

98 Anthracene, Signal: 1, m/z: 178.0 Type: quant, RT: 13.22

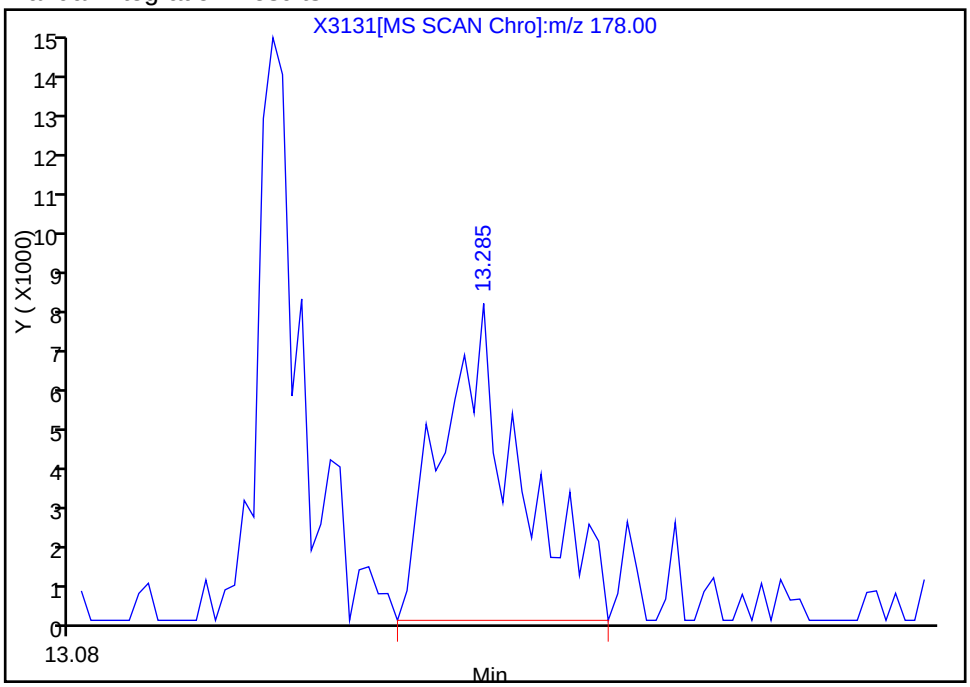
Processing Integration Results

Not Detected
Expected RT: 13.22



Manual Integration Results

RT: 13.28
Response: 21852
Amount: 0.110857



Reviewer: mckernar, 18-Dec-2012 11:48:41
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:42:57 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

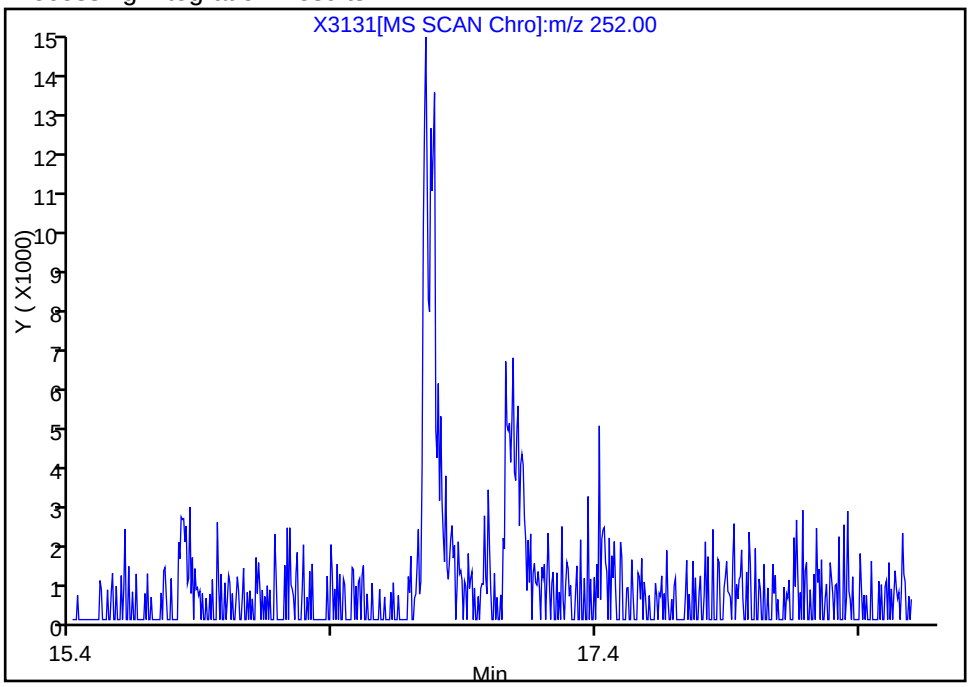
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3131.D		
Injection Date:	18-Dec-2012 11:20:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	2
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

116 Benzo[a]pyrene, Signal: 1, m/z: 252.0 Type: quant, RT: 17.00

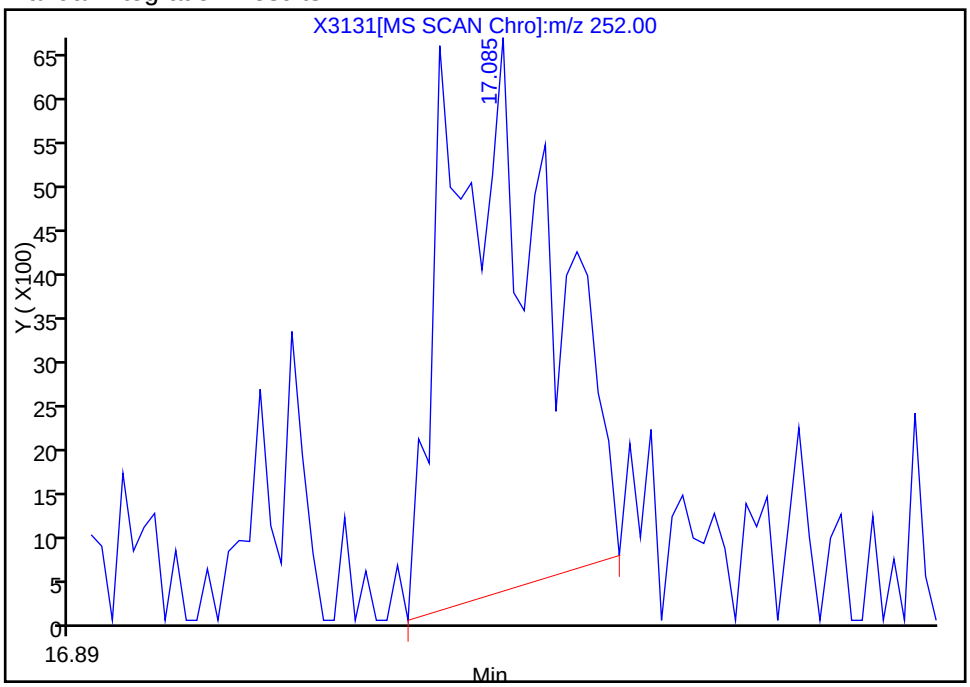
Processing Integration Results

Not Detected
Expected RT: 17.00



Manual Integration Results

RT: 17.08
Response: 20183
Amount: 0.117479



Reviewer: mckernar, 18-Dec-2012 11:48:41
Audit Action: Manually Integrated
Audit Reason: Assign Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D
Lims ID: IC - 0.5 Client ID:
Inject. Date: 18-Dec-2012 11:45:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: 480-0017654-003
Misc. Info.:
Operator: ANM Instrument ID: HP5973X
Injection Vol: 1.0 ul ALS Bottle#: 4
Lims Batch ID: 96347 Lims Sample ID: 3
Sublist: chrom-X-8270LL*sub20
Detector: MS SCAN

Method: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X-8270LL.m
Last Update: 18-Dec-2012 16:42:58 Calib Date: 18-Dec-2012 14:44:30
Quant Method: Internal Standard Quant By: Continuing Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3139.D
Limit Group: MB - 8270RCP_MCP ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: RXI-5Sil MS Column Dia: 0.25 mm
Process Host: XAWRK017

First Level Reviewer: mckernar Date: 18-Dec-2012 16:42:58

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.551	6.594	-0.043	86	221007	5.00	
* 2 Naphthalene-d8	136	8.477	8.486	-0.009	97	813144	5.00	
* 3 Acenaphthene-d10	164	11.131	11.116	0.015	88	491126	5.00	
* 4 Phenanthrene-d10	188	13.147	13.128	0.019	96	911020	5.00	
* 5 Chrysene-d12	240	15.782	15.767	0.015	97	820158	5.00	
* 6 Perylene-d12	264	17.075	17.051	0.024	99	770222	5.00	
$ 7 2-Fluorophenol	112	4.658	4.701	-0.043	31	18987	0.3786	
$ 8 Phenol-d5	99	6.109	6.118	-0.009	45	18843	0.3087	
$ 9 Nitrobenzene-d5	82	7.421	7.435	-0.014	58	20141	0.3304	
$ 10 2-Fluorobiphenyl	172	10.151	10.127	0.024	63	51351	0.4166	
$ 11 2,4,6-Tribromophenol	330	12.310	12.291	0.019	0	7887	0.4706	M
$ 12 p-Terphenyl-d14	244	14.821	14.802	0.019	88	83050	0.5252	
18 1,4-Dioxane	88	2.437	2.466	-0.029	43	19150	0.7038	M
19 N-Nitrosodimethylamine	42	2.794	2.813	-0.019	52	21483	0.5321	M
20 Pyridine	52	2.927	2.908	0.019	1	20512	0.5003	M
21 Benzaldehyde	77	5.933	5.961	-0.028	75	18726	0.4323	
23 Aniline	93	6.090	6.128	-0.038	88	38168	0.4717	M
22 Phenol	94	6.142	6.142	0.0	0	26753	0.3974	M
24 Bis(2-chloroethyl)ether	93	6.185	6.223	-0.038	71	21116	0.3984	
25 2-Chlorophenol	128	6.266	6.294	-0.028	63	22826	0.3988	
26 1,3-Dichlorobenzene	146	6.465	6.503	-0.038	72	40813	0.5750	
27 1,4-Dichlorobenzene	146	6.575	6.622	-0.047	8	35027	0.4940	
29 1,2-Dichlorobenzene	146	6.808	6.841	-0.033	67	34776	0.5260	
28 Benzyl alcohol	108	6.832	6.846	-0.014	1	804	0.0496	
32 2,2'-oxybis[1-chloropropane]	45	6.998	7.022	-0.024	66	43894	0.5095	M
31 2-Methylphenol	108	7.008	7.031	-0.023	0	19924	0.4147	M
33 Acetophenone	105	7.198	7.212	-0.014	68	26930	0.3286	M
34 N-Nitrosodi-n-propylamine	70	7.198	7.217	-0.019	68	16123	0.3917	
36 4-Methylphenol	108	7.379	7.288	0.090	0	19705	0.4050	M

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
37 Hexachloroethane	117	7.293	7.331	-0.038	77	15669	0.5007	
38 Nitrobenzene	77	7.445	7.464	-0.019	52	21483	0.3395	M
40 Isophorone	82	7.807	7.821	-0.015	0	46194	0.4438	M
41 2-Nitrophenol	139	7.992	7.939	0.053	17	9854	0.3422	M
43 2,4-Dimethylphenol	107	8.101	8.058	0.043	0	22845	0.4205	M
45 Bis(2-chloroethoxy)methane	93	8.211	8.177	0.034	47	18841	0.3056	M
44 Benzoic acid	105	8.230	8.268	-0.038	16	577	0.0272	
47 2,4-Dichlorophenol	162	8.453	8.358	0.095	0	15967	0.3612	M
48 1,2,4-Trichlorobenzene	180	8.410	8.410	0.0	58	29590	0.5445	M
49 Naphthalene	128	8.510	8.520	-0.010	40	95430	0.5298	
51 4-Chloroaniline	127	8.720	8.662	0.058	1	25413	0.3899	M
52 Hexachlorobutadiene	225	8.705	8.710	-0.005	41	14803	0.4985	
54 Caprolactam	113	9.343	9.209	0.134	0	5831	0.3624	M
55 4-Chloro-3-methylphenol	107	9.557	9.466	0.091	0	16457	0.3370	M
56 2-Methylnaphthalene	142	9.590	9.566	0.024	63	60786	0.4814	
57 1-Methylnaphthalene	142	9.723	9.709	0.014	82	53740	0.4621	
58 Hexachlorocyclopentadiene	237		9.794					
59 1,2,4,5-Tetrachlorobenzene	216	9.842	9.818	0.024	61	18475	0.4010	
60 2,4,6-Trichlorophenol	196	10.113	10.037	0.076	4	11611	0.4094	M
61 2,4,5-Trichlorophenol	196	10.256	10.146	0.110	1	14692	0.5355	M
62 1,1'-Biphenyl	154	10.298	10.274	0.024	78	70247	0.4947	M
63 2-Chloronaphthalene	162	10.346	10.317	0.029	75	115849	0.5383	M
64 Phenyl ether	170	10.465	10.436	0.029	70	38232	0.4951	M
65 2-Nitroaniline	65	10.636	10.512	0.124	1	14515	0.4462	M
66 1,4-Dinitrobenzene	75		10.755					M
67 Dimethyl phthalate	163	10.822	10.779	0.043	78	58407	0.4596	
68 2,6-Dinitrotoluene	165	10.917	10.864	0.053	40	21625	0.3753	M
69 Acenaphthylene	152	10.921	10.907	0.014	81	88280	0.5139	M
70 3-Nitroaniline	138		11.159					14
71 Acenaphthene	153	11.178	11.169	0.009	67	60610	0.5067	
72 2,4-Dinitrophenol	184		11.349					
73 Dibenzofuran	168	11.473	11.440	0.033	89	78290	0.5365	M
74 2,4-Dinitrotoluene	165	11.568	11.492	0.076	1	13719	0.3731	M
75 4-Nitrophenol	109		11.611					
76 2,3,4,6-Tetrachlorophenol	232	11.725	11.668	0.057	1	7906	0.3582	M
78 Diethyl phthalate	149	11.854	11.825	0.029	75	65968	0.4740	
79 Fluorene	166	11.972	11.934	0.038	86	64267	0.4816	M
80 4-Chlorophenyl phenyl ether	204	11.977	11.953	0.024	78	28503	0.4823	
81 4-Nitroaniline	138	12.053	12.067	-0.014	1	571	0.4268	
82 4,6-Dinitro-2-methylphenol	198	12.153	12.082	0.071	7	8320	1.35	M
84 Diphenylamine	169	12.158	12.124	0.034	93	101850	0.4804	M
83 N-Nitrosodiphenylamine	169	12.158	12.124	0.034	93	101850	0.4807	M
16 1,2-Diphenylhydrazine	77	12.196	12.167	0.029	86	59521	0.4347	M
85 Azobenzene	77	12.196	12.167	0.029	86	58380	0.4272	M
86 Benzophenone	105	12.224	12.191	0.033	81	66890	0.5727	M
89 4-Bromophenyl phenyl ether	248	12.624	12.595	0.029	69	16508	0.4834	
91 Hexachlorobenzene	284	12.681	12.652	0.029	35	12854	0.4219	
92 Simazine	201	12.847	12.809	0.038	0	4273	0	M
93 Atrazine	200	12.866	12.838	0.028	0	36768	1.00	M
95 Pentachloronitrobenzene	237	12.938	12.923	0.015	1	4787	0.6041	M
94 Pentachlorophenol	266	13.004	12.933	0.071	0	11106	1.49	M
97 Phenanthrene	178	13.176	13.156	0.020	56	103962	0.5119	M

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
98 Anthracene	178	13.247	13.218	0.029	80	99410	0.4806	M
99 Carbazole	167	13.480	13.427	0.053	93	94048	0.4905	M
101 Alachlor	160	13.580	13.565	0.015	49	16048	0	M
102 Di-n-butyl phthalate	149	13.827	13.803	0.024	89	115750	0.5208	
104 Fluoranthene	202	14.464	14.431	0.033	85	87590	0.4356	
105 Benzidine	184	14.650	14.597	0.053	45	41270	0.4556	M
106 Pyrene	202	14.683	14.654	0.029	91	115288	0.5246	
107 Famphur	218	15.220	15.201	0.019	45	30812	0	
108 Butyl benzyl phthalate	149	15.258	15.244	0.014	80	58314	0.4798	
110 Bis(2-ethylhexyl) phthalate	149	15.748	15.734	0.014	91	76558	0.4576	
109 3,3'-Dichlorobenzidine	252	15.777	15.743	0.034	1	22877	0.3105	
111 Benzo[a]anthracene	228	15.777	15.753	0.024	48	76037	0.4303	
112 Chrysene	228	15.805	15.791	0.014	57	134023	0.6687	
113 Di-n-octyl phthalate	149	16.286	16.271	0.015	92	131786	0.4996	
114 Benzo[b]fluoranthene	252	16.728	16.695	0.034	72	86485	0.4835	
115 Benzo[k]fluoranthene	252	16.747	16.718	0.029	72	96066	0.5212	
116 Benzo[a]pyrene	252	17.037	17.004	0.033	0	93850	0.5426	M
118 Dibenz(a,h)anthracene	278	18.207	18.150	0.057	0	83623	0.5337	M
117 Indeno[1,2,3-cd]pyrene	276	18.216	18.150	0.066	84	93718	0.5077	M
119 Benzo[g,h,i]perylene	276	18.526	18.468	0.058	0	71847	0.4664	M
S 121 3-Methylphenol	1		0.000					

QC Flag Legend

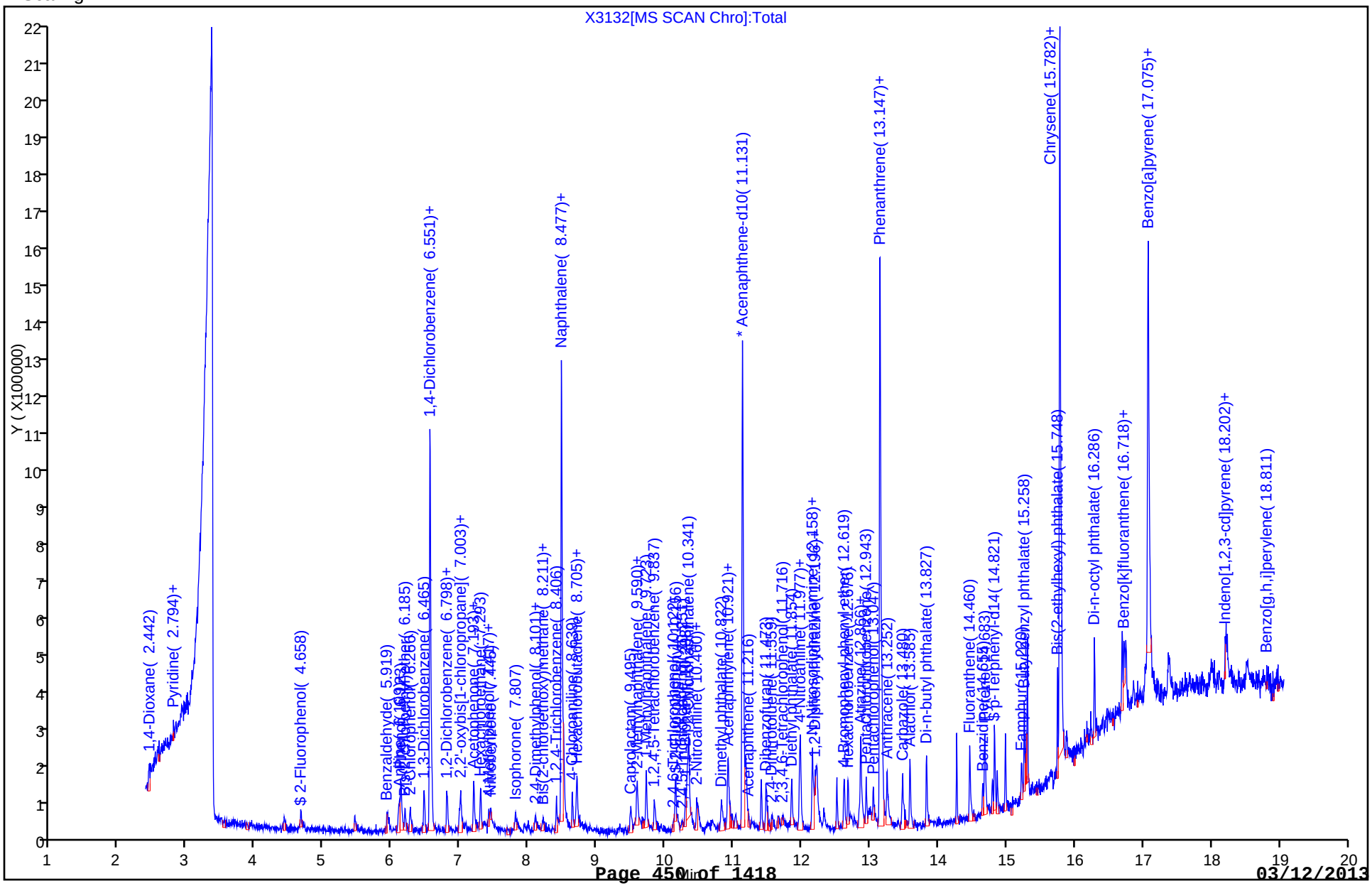
Processing Flags
1 - Missing Peaks
4 - Failed Signal Ratio Test

Review Flags
M - Manually Integrated

Report Date: 18-Dec-2012 16:42:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm
Y Scaling:			



Manual Integration/User Assign Peak Report

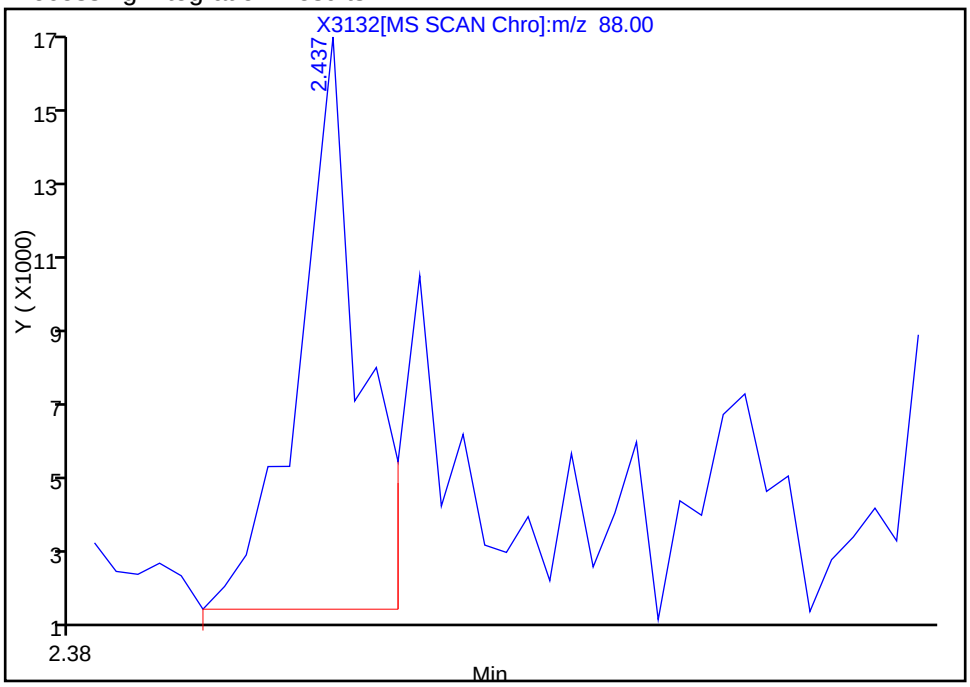
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

18 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 2.47

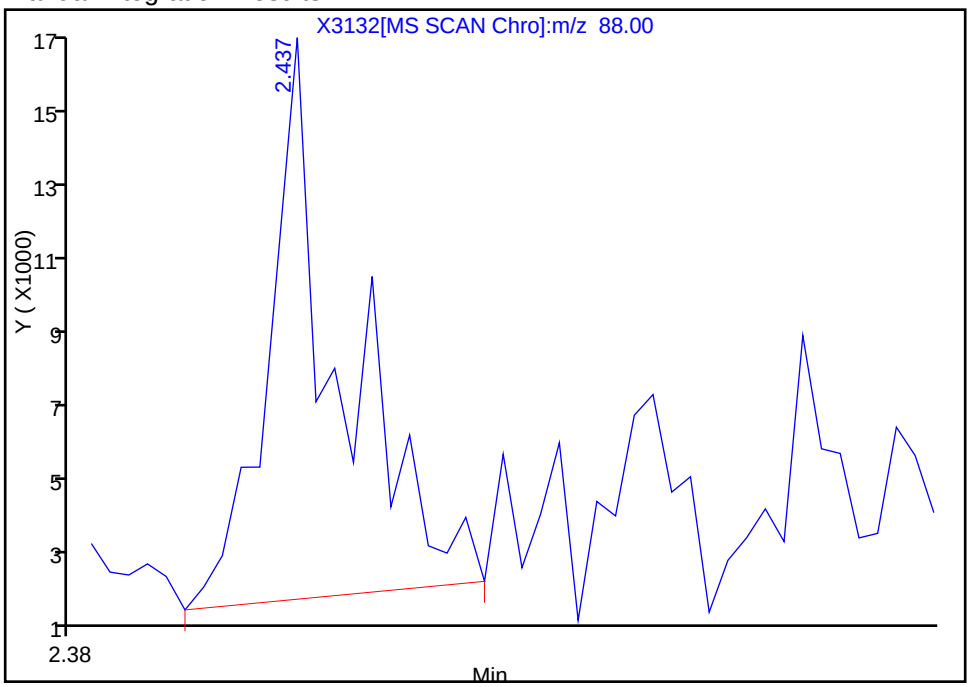
Processing Integration Results

RT: 2.44
Response: 14472
Amount: 0.363903



Manual Integration Results

RT: 2.44
Response: 19150
Amount: 0.703801



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:42:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

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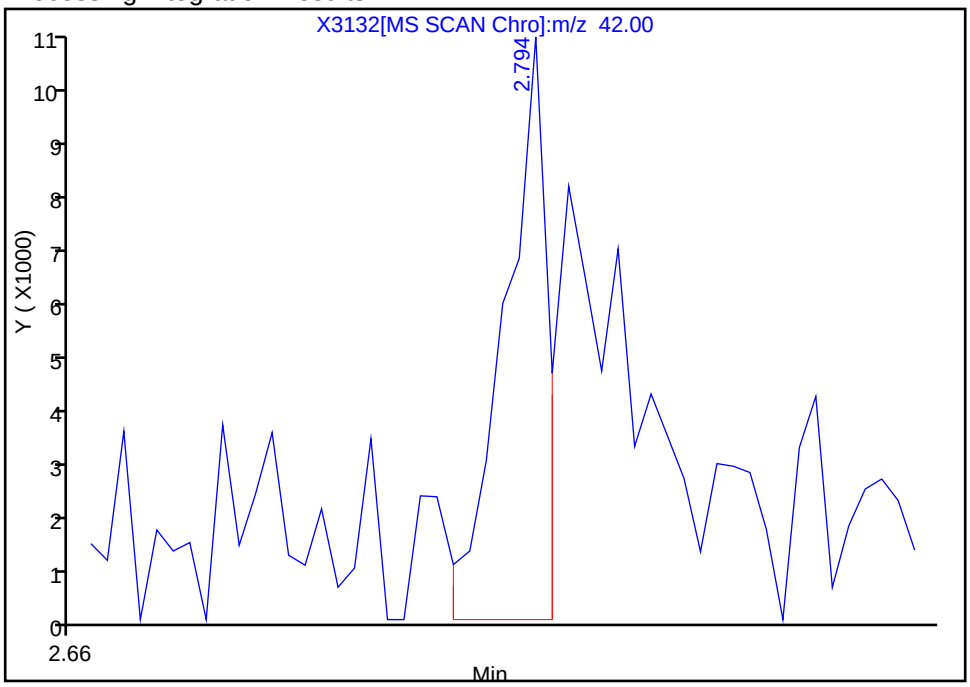
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

19 N-Nitrosodimethylamine, Signal: 1, m/z: 42.0 Type: quant, RT: 2.81

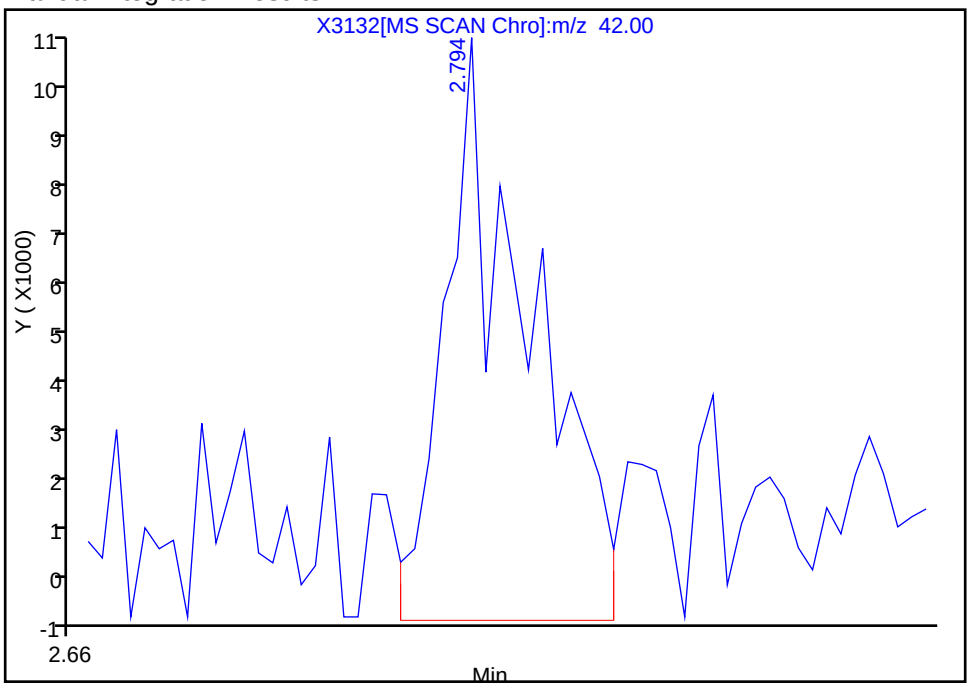
Processing Integration Results

RT: 2.79
Response: 9538
Amount: 0.500000



Manual Integration Results

RT: 2.79
Response: 21483
Amount: 0.532055



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:42:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

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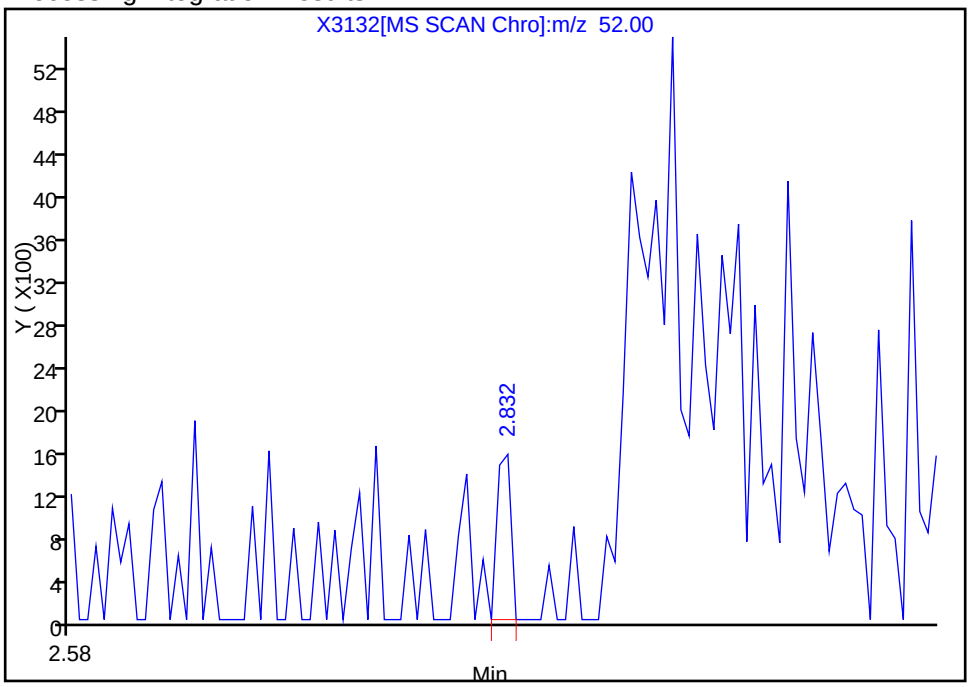
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

20 Pyridine, Signal: 1, m/z: 52.0 Type: quant, RT: 2.91

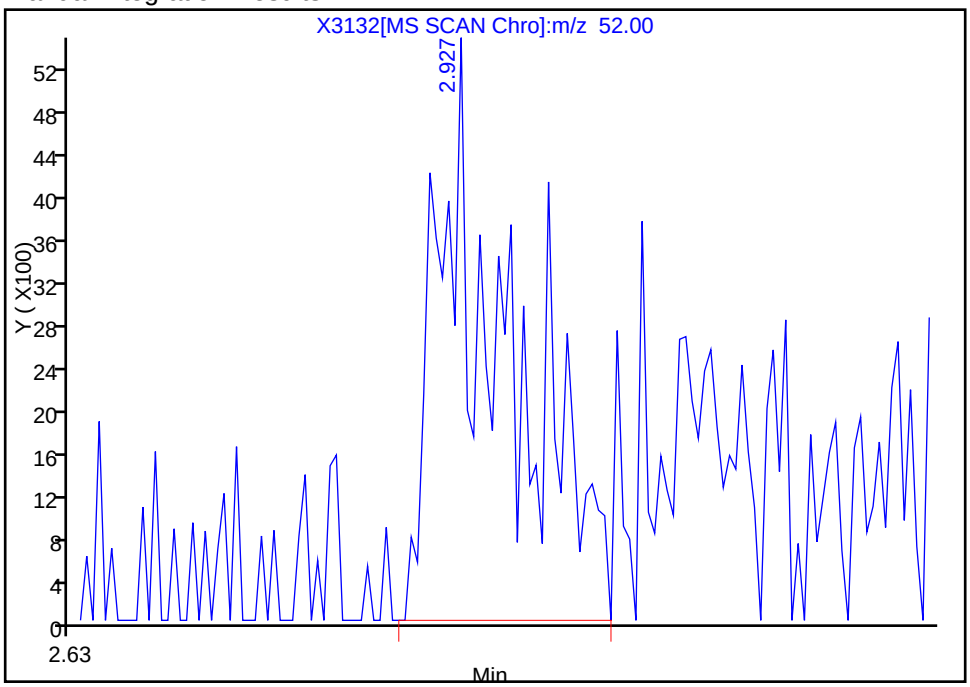
Processing Integration Results

RT: 2.83
Response: 860
Amount: 0.500000



Manual Integration Results

RT: 2.93
Response: 20512
Amount: 0.500302



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:42:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

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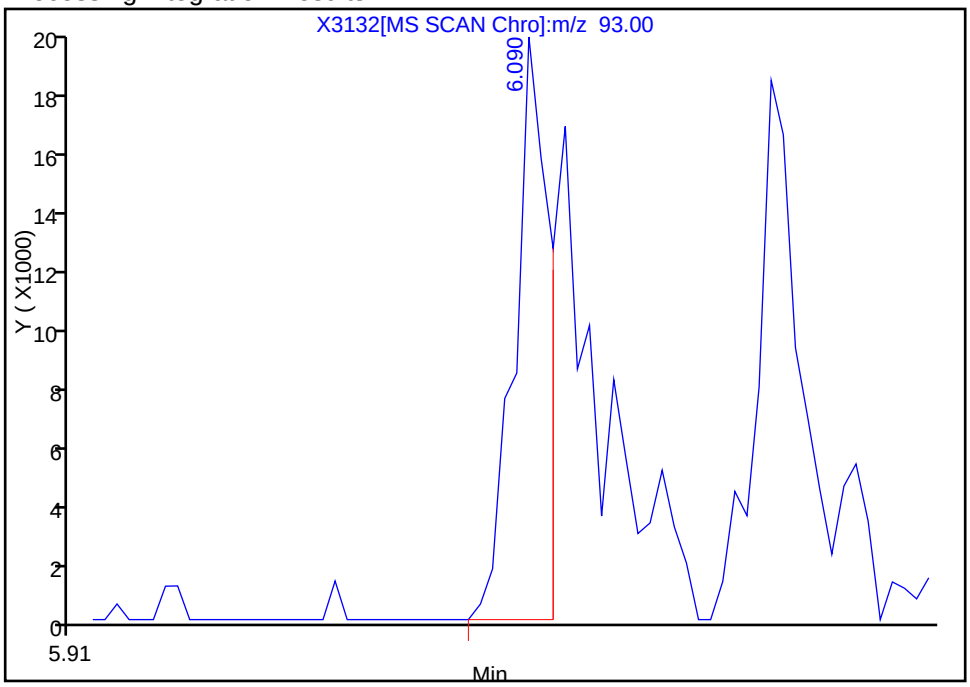
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

23 Aniline, Signal: 1, m/z: 93.0 Type: quant, RT: 6.13

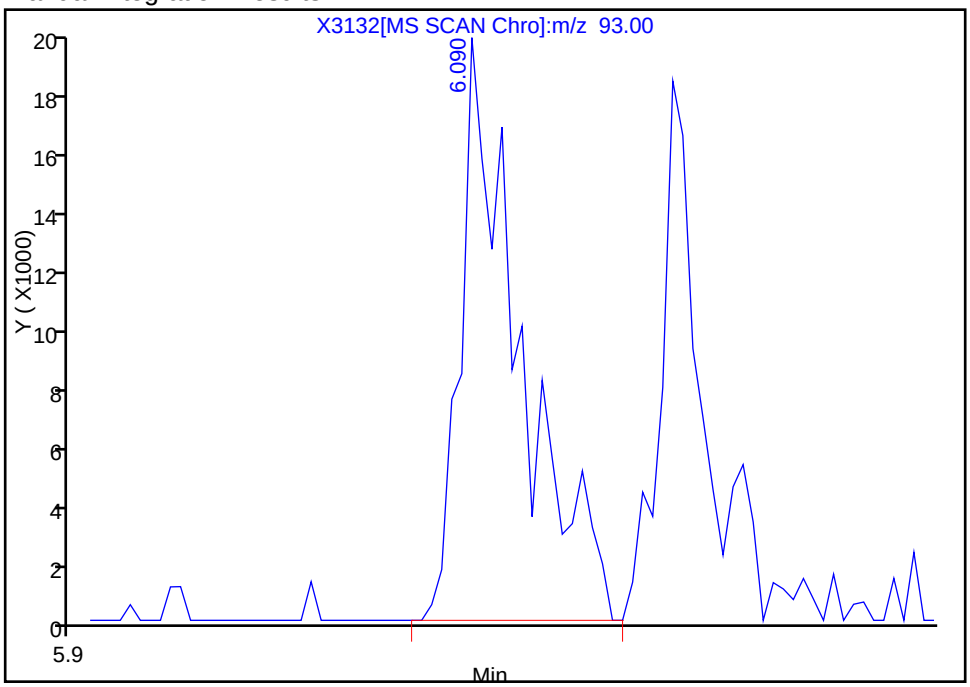
Processing Integration Results

RT: 6.09
Response: 18719
Amount: 0.500000



Manual Integration Results

RT: 6.09
Response: 38168
Amount: 0.471682



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:42:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

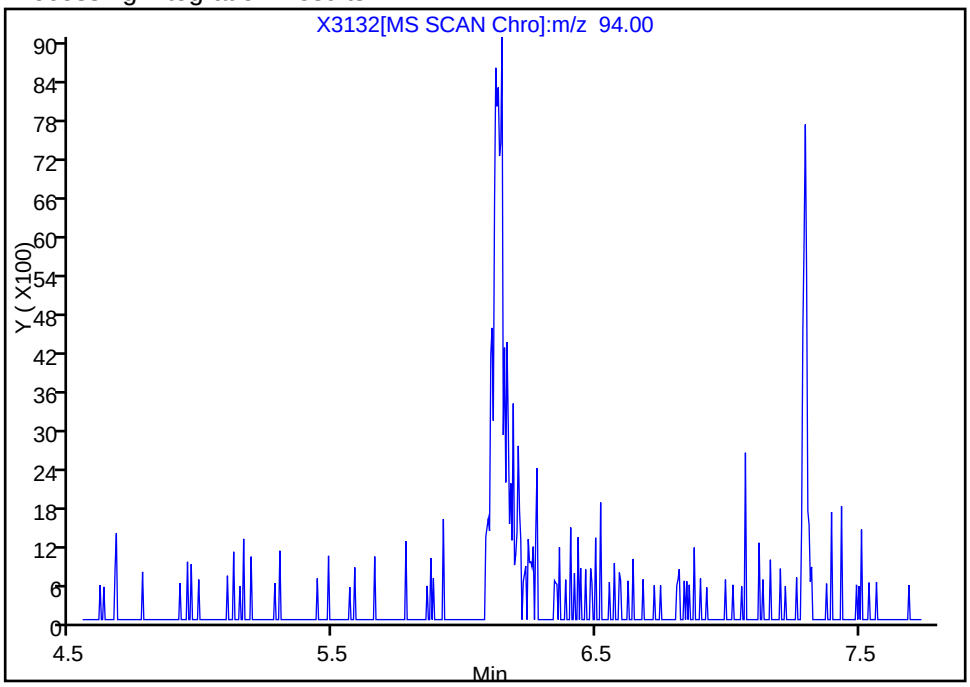
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

22 Phenol, Signal: 1, m/z: 94.0 Type: quant, RT: 6.14

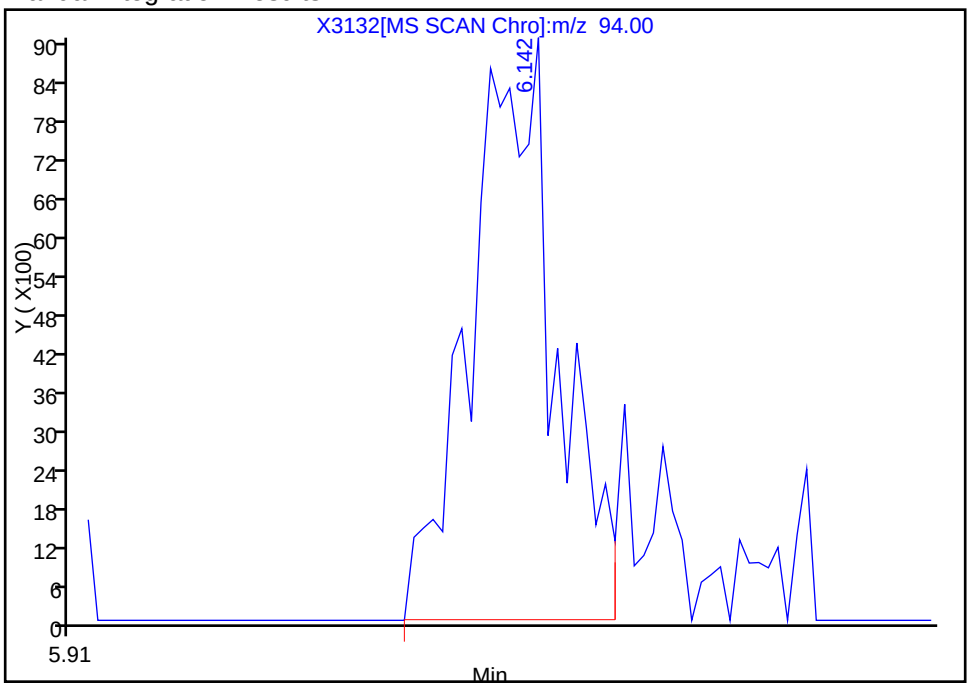
Processing Integration Results

Not Detected
Expected RT: 6.14



Manual Integration Results

RT: 6.14
Response: 26753
Amount: 0.397391



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:42:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

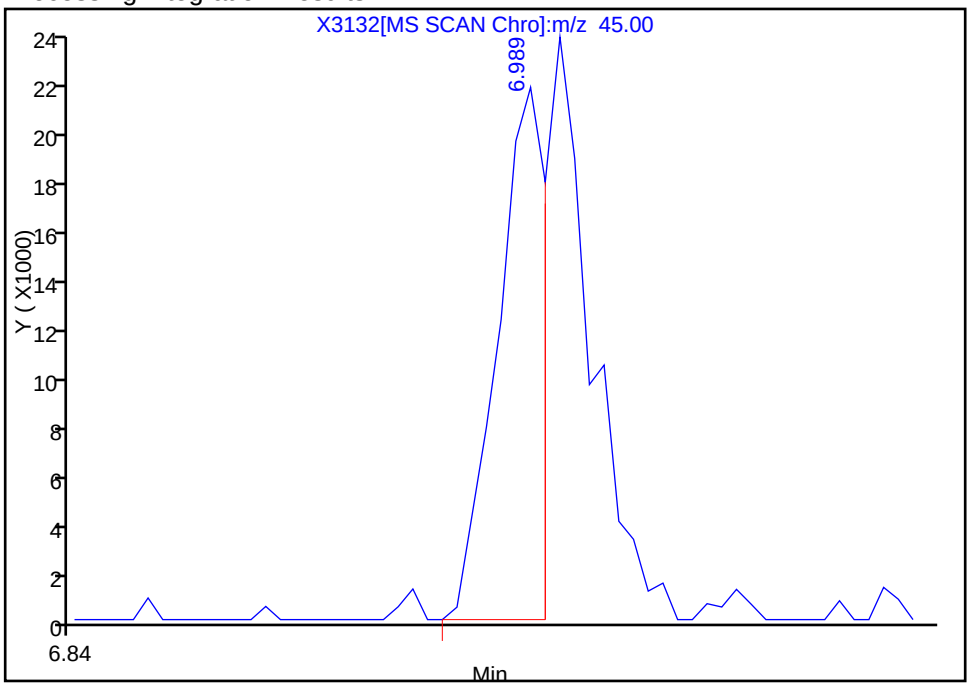
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

32 2,2'-oxybis[1-chloropropane], Signal: 1, m/z: 45.0 Type: quant, RT: 7.02

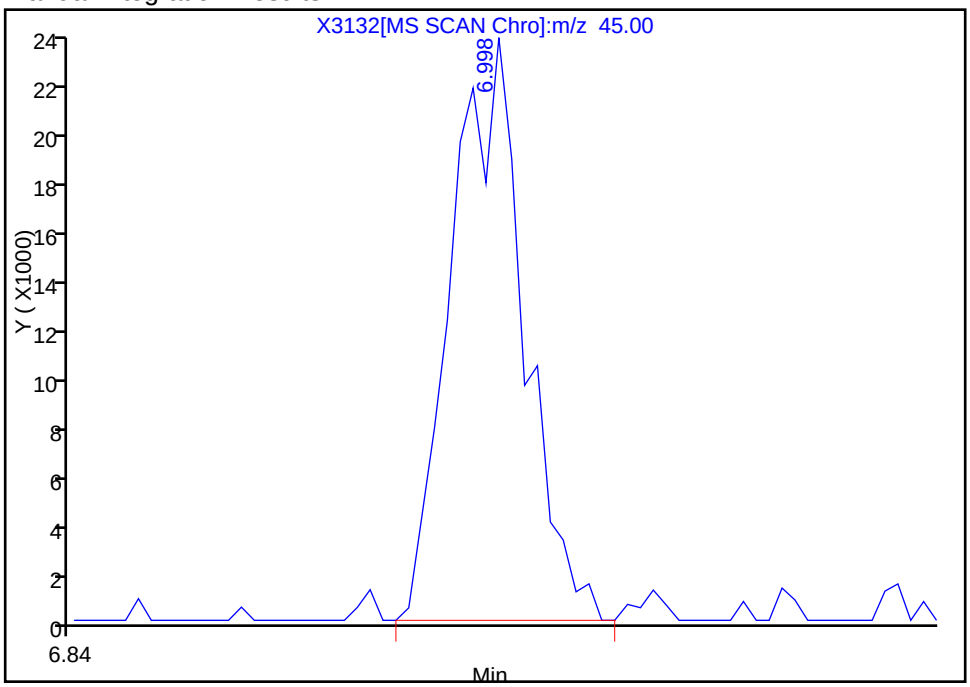
Processing Integration Results

RT: 6.99
Response: 23541
Amount: 0.500000



Manual Integration Results

RT: 7.00
Response: 43894
Amount: 0.509473



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

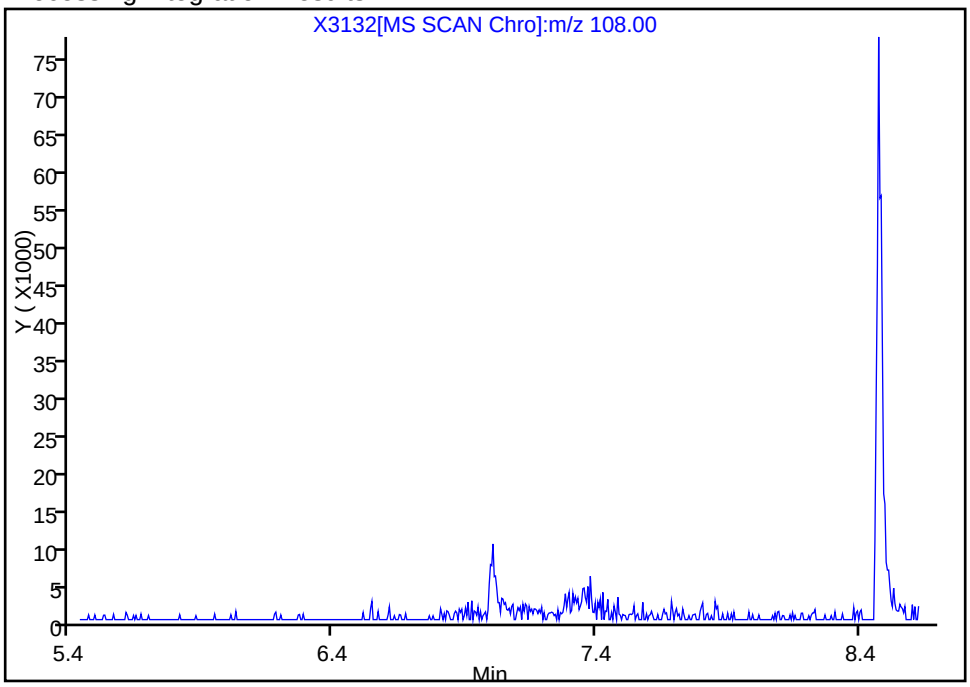
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

31 2-Methylphenol, Signal: 1, m/z: 108.0 Type: quant, RT: 7.03

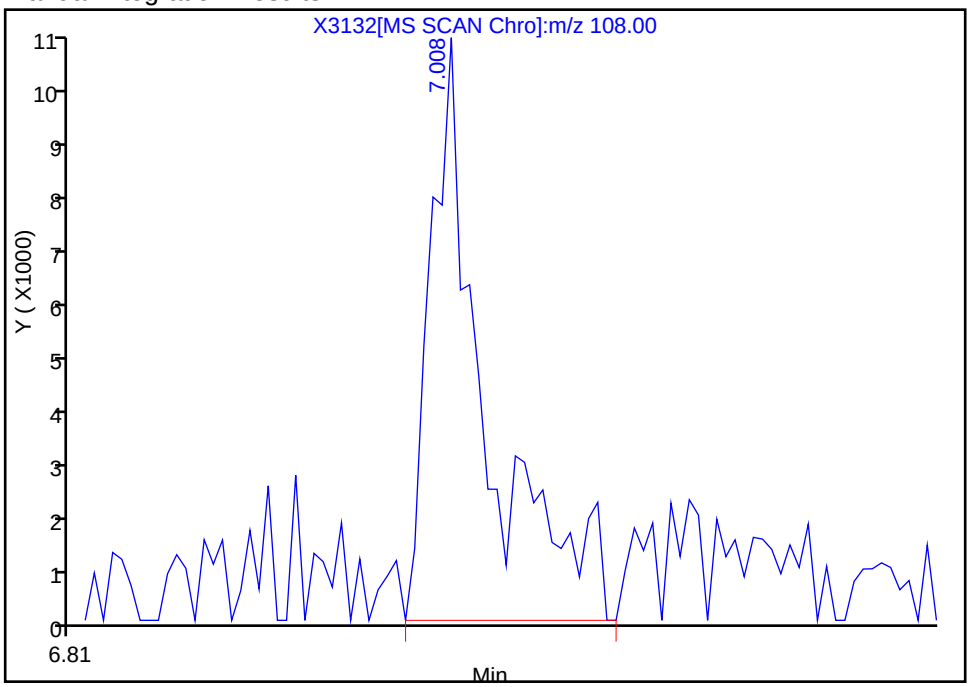
Processing Integration Results

Not Detected
Expected RT: 7.03



Manual Integration Results

RT: 7.01
Response: 19924
Amount: 0.414739



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:42:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

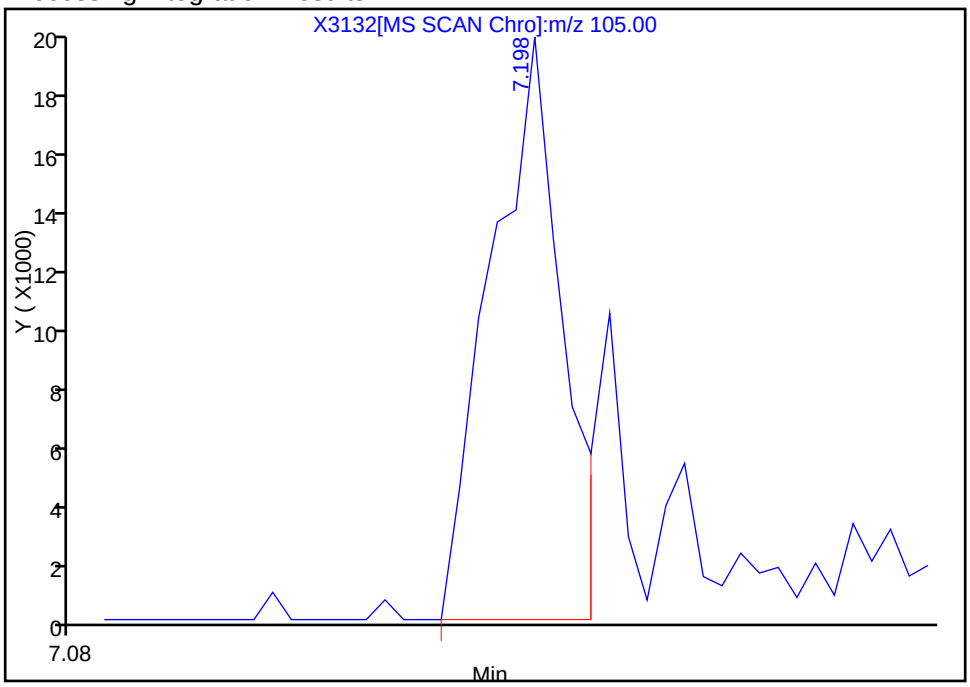
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

33 Acetophenone, Signal: 1, m/z: 105.0 Type: quant, RT: 7.21

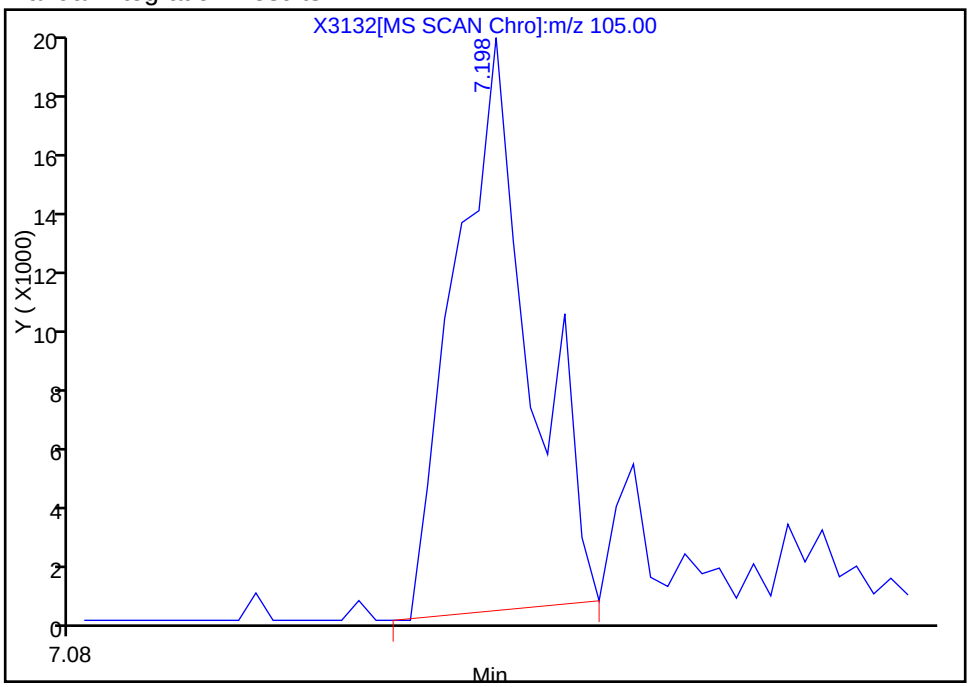
Processing Integration Results

RT: 7.20
Response: 24273
Amount: 0.500000



Manual Integration Results

RT: 7.20
Response: 26930
Amount: 0.328564



Reviewer: mckernar, 18-Dec-2012 13:05:38
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Report Date: 18-Dec-2012 16:42:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

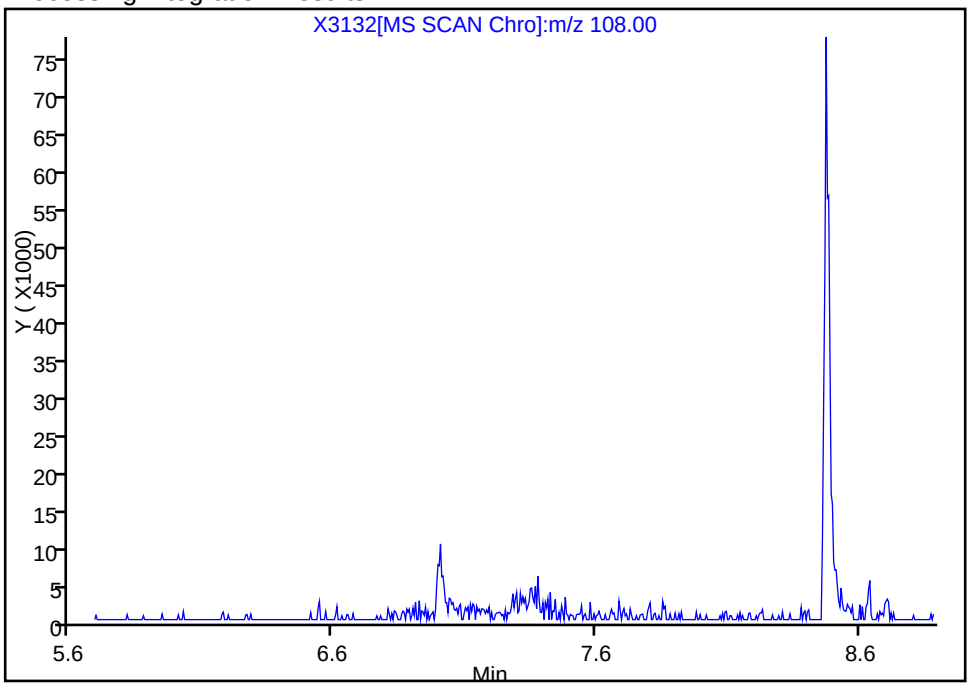
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

36 4-Methylphenol, Signal: 1, m/z: 108.0 Type: quant, RT: 7.29

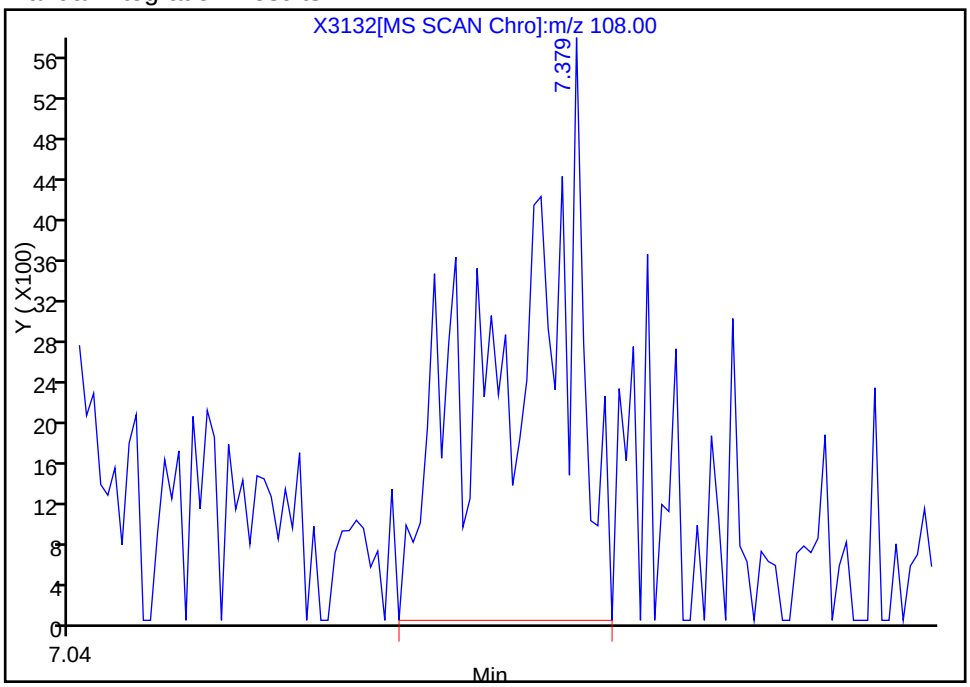
Processing Integration Results

Not Detected
Expected RT: 7.29



Manual Integration Results

RT: 7.38
Response: 19705
Amount: 0.405005



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:42:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

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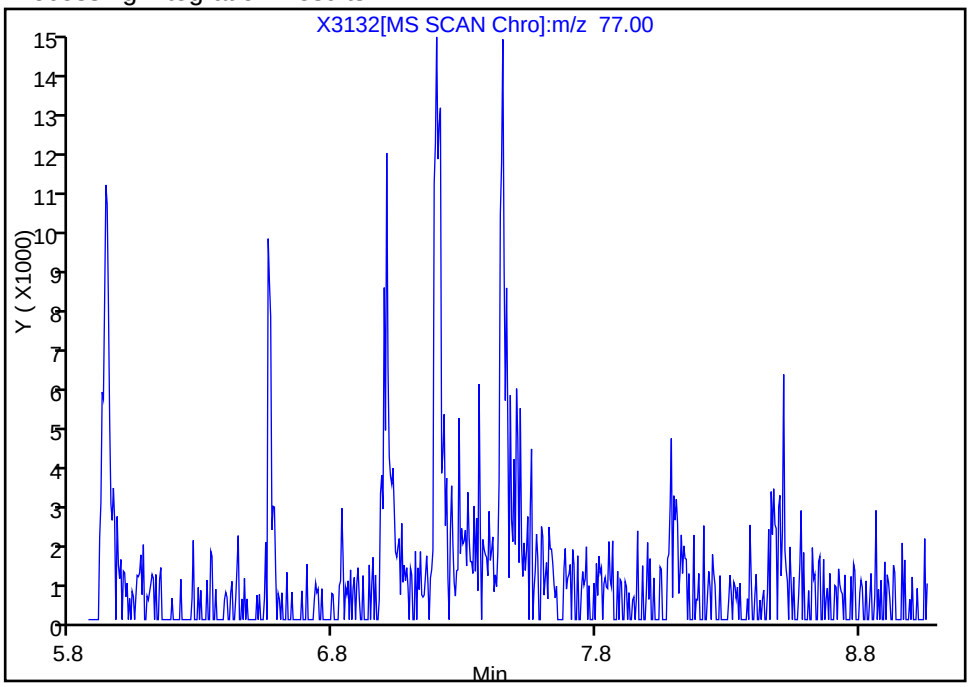
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

38 Nitrobenzene, Signal: 1, m/z: 77.0 Type: quant, RT: 7.46

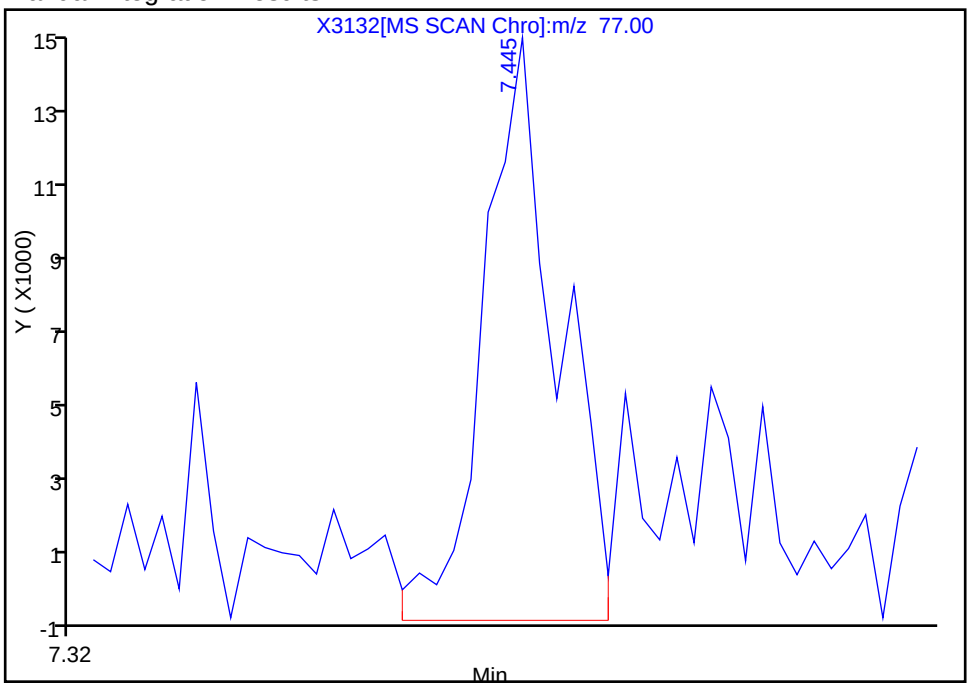
Processing Integration Results

Not Detected
Expected RT: 7.46



Manual Integration Results

RT: 7.45
Response: 21483
Amount: 0.339456



Reviewer: mckernar, 18-Dec-2012 13:05:38
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Manual Integration/User Assign Peak Report

TestAmerica Buffalo

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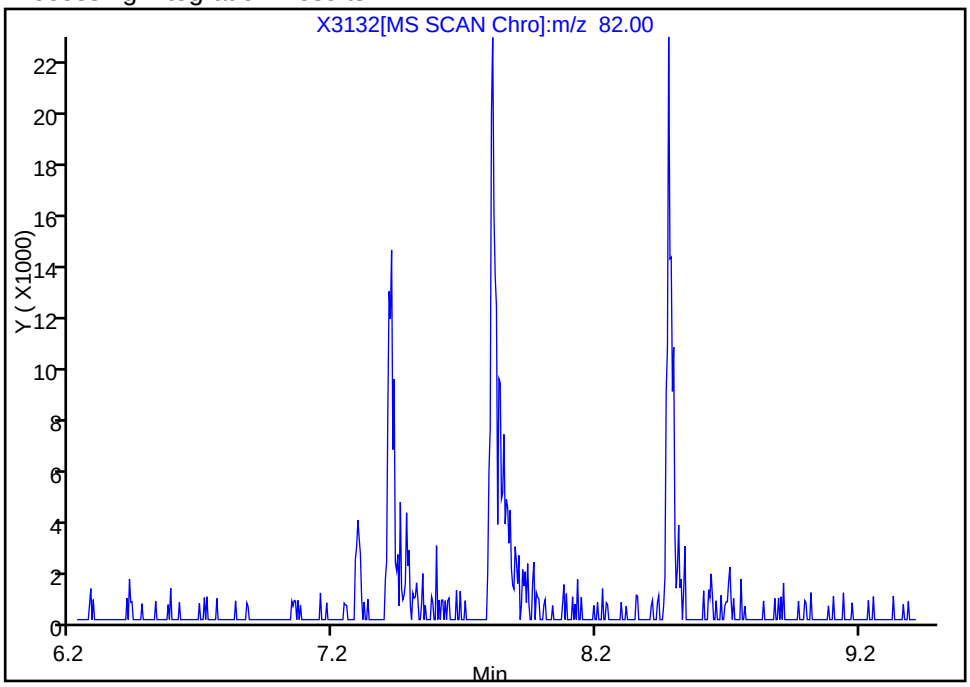
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

40 Isophorone, Signal: 1, m/z: 82.0 Type: quant, RT: 7.82

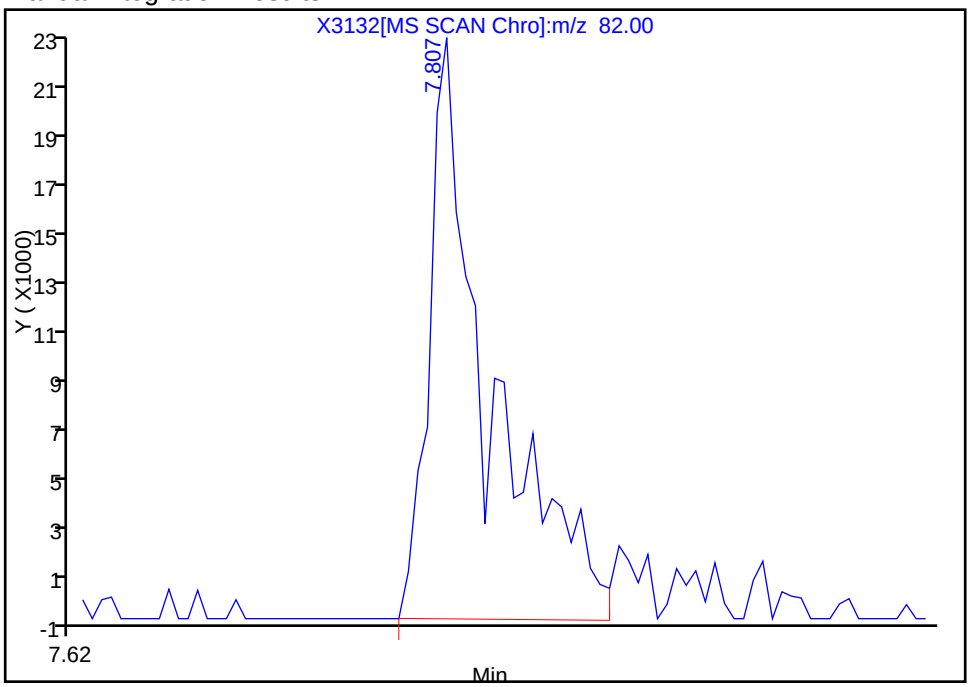
Processing Integration Results

Not Detected
Expected RT: 7.82



Manual Integration Results

RT: 7.81
Response: 46194
Amount: 0.443798



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:42:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

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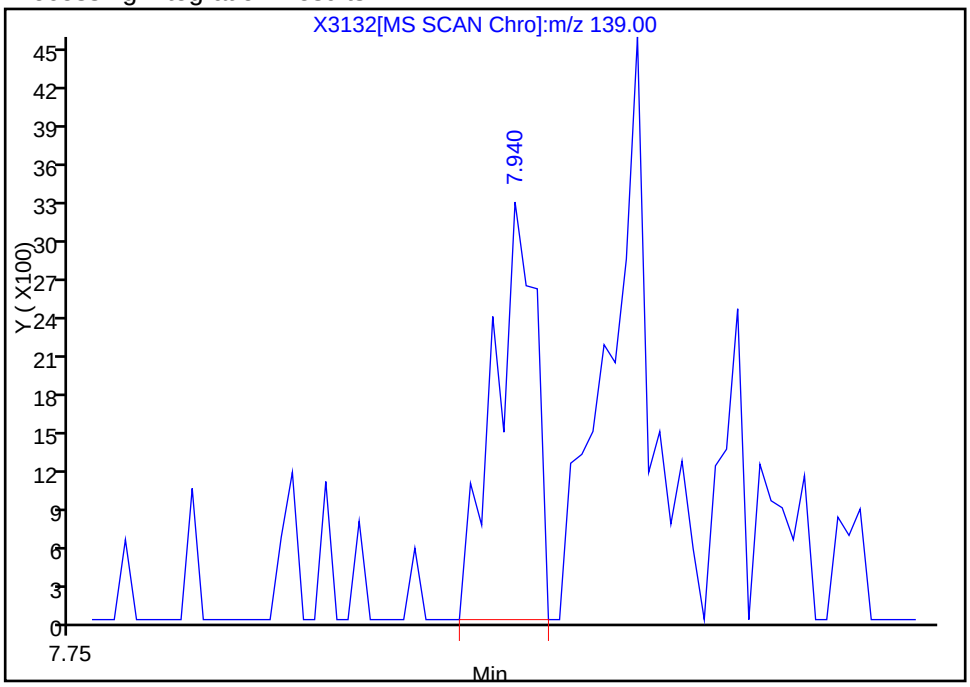
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

41 2-Nitrophenol, Signal: 1, m/z: 139.0 Type: quant, RT: 7.94

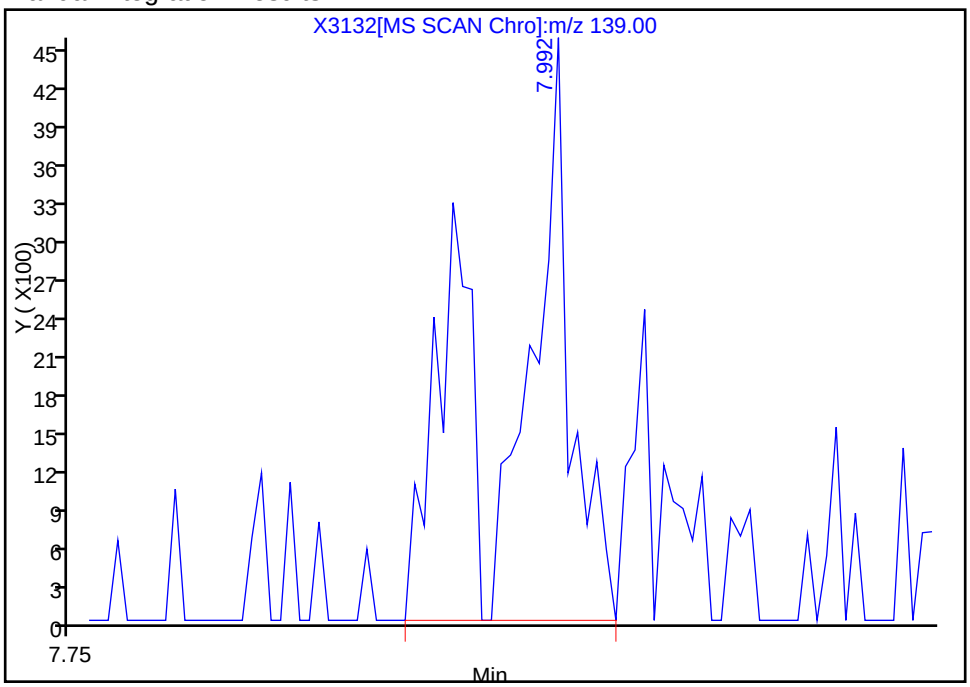
Processing Integration Results

RT: 7.94
Response: 3996
Amount: 0.500000



Manual Integration Results

RT: 7.99
Response: 9854
Amount: 0.342166



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:42:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

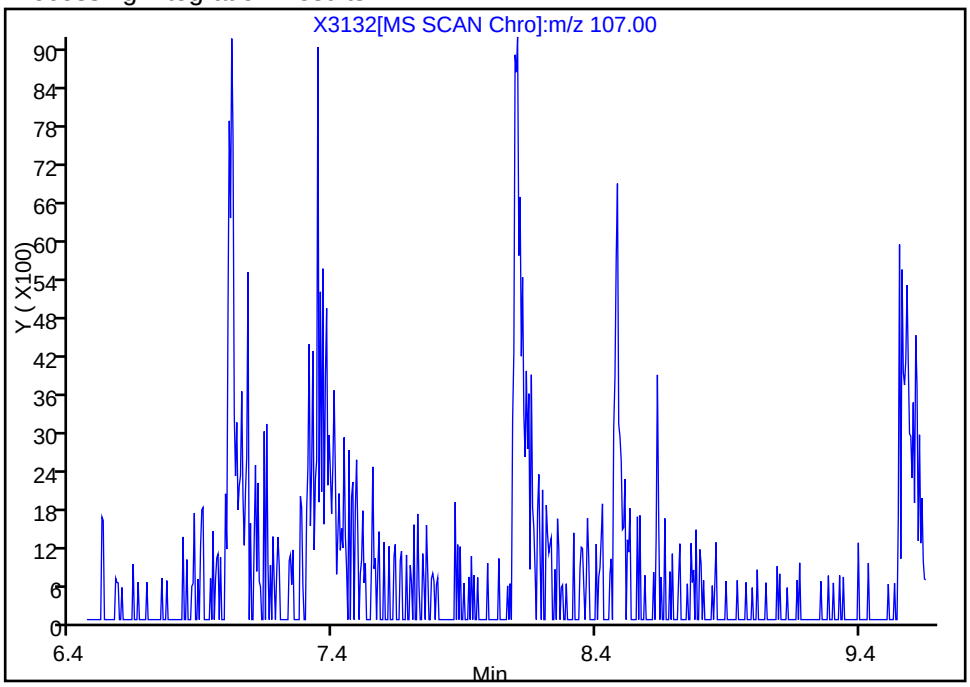
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

43 2,4-Dimethylphenol, Signal: 1, m/z: 107.0 Type: quant, RT: 8.06

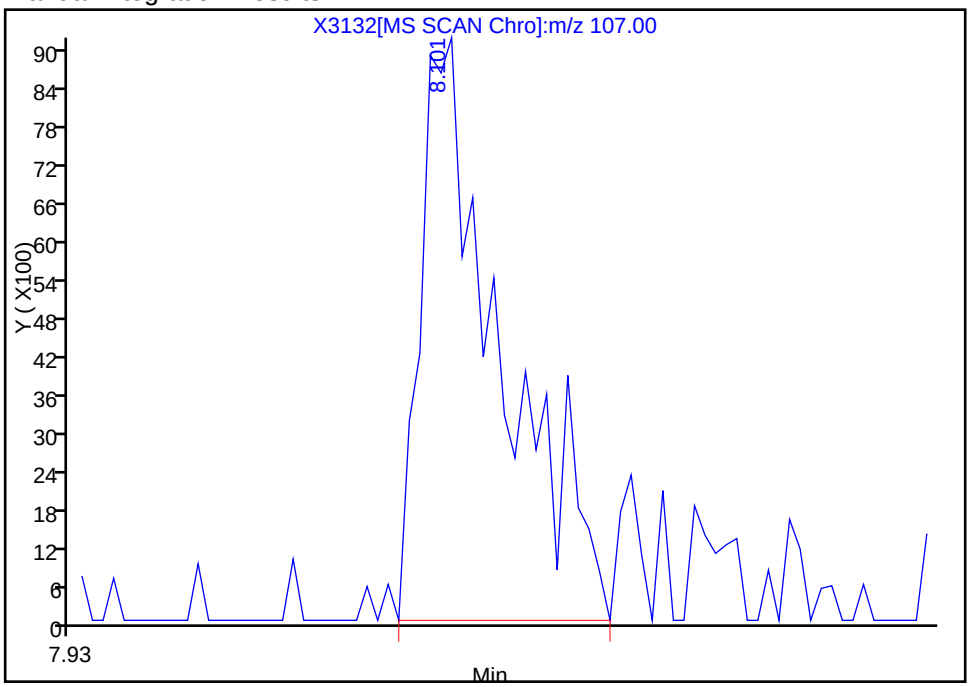
Processing Integration Results

Not Detected
Expected RT: 8.06



Manual Integration Results

RT: 8.10
Response: 22845
Amount: 0.420545



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

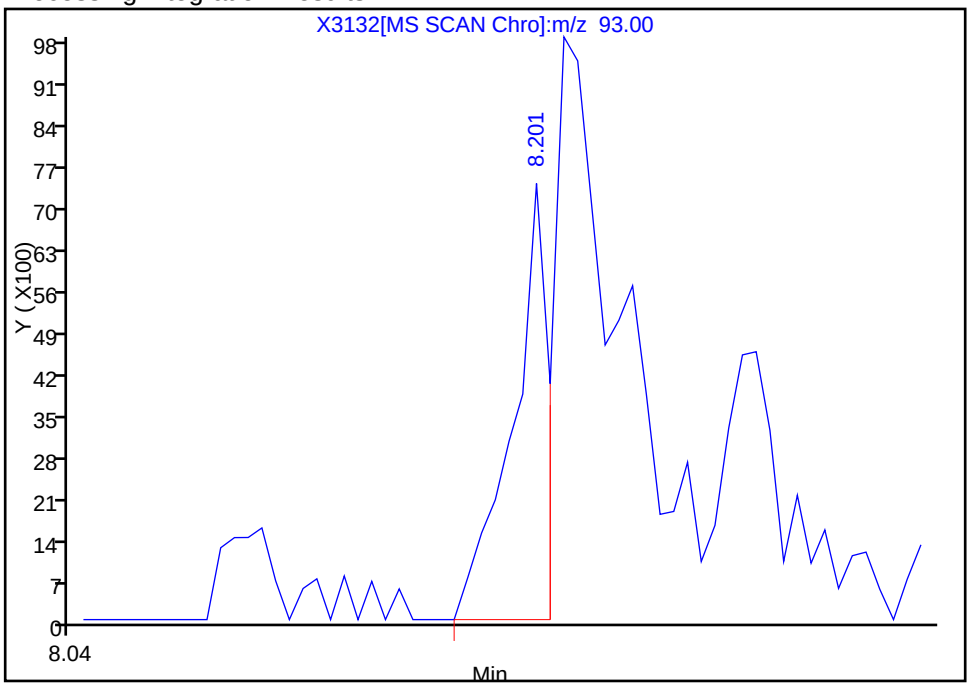
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

45 Bis(2-chloroethoxy)methane, Signal: 1, m/z: 93.0 Type: quant, RT: 8.18

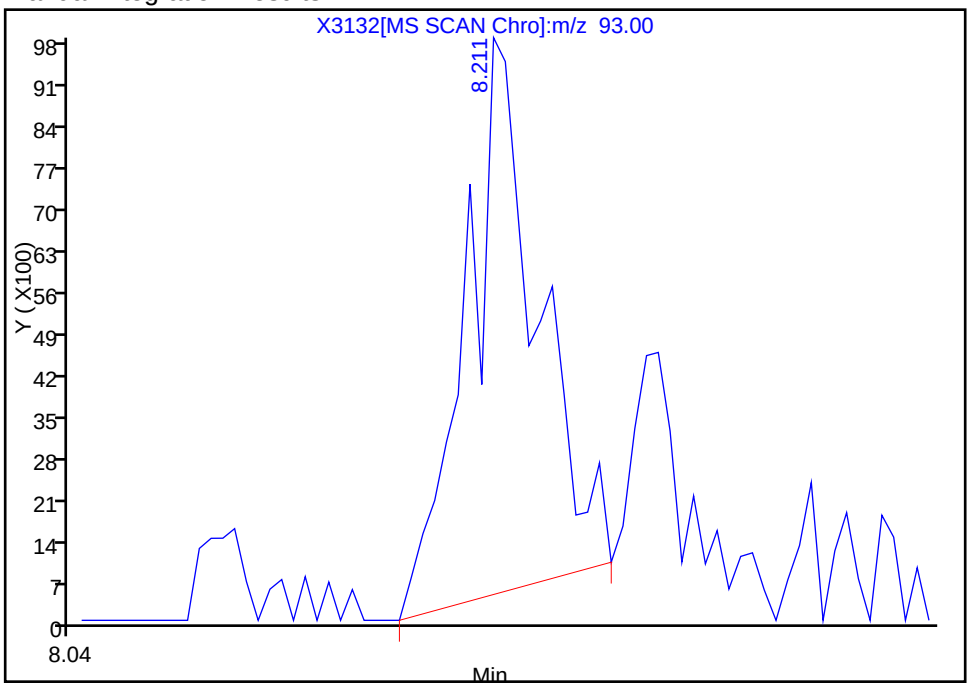
Processing Integration Results

RT: 8.20
Response: 6410
Amount: 0.500000



Manual Integration Results

RT: 8.21
Response: 18841
Amount: 0.305610



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:42:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

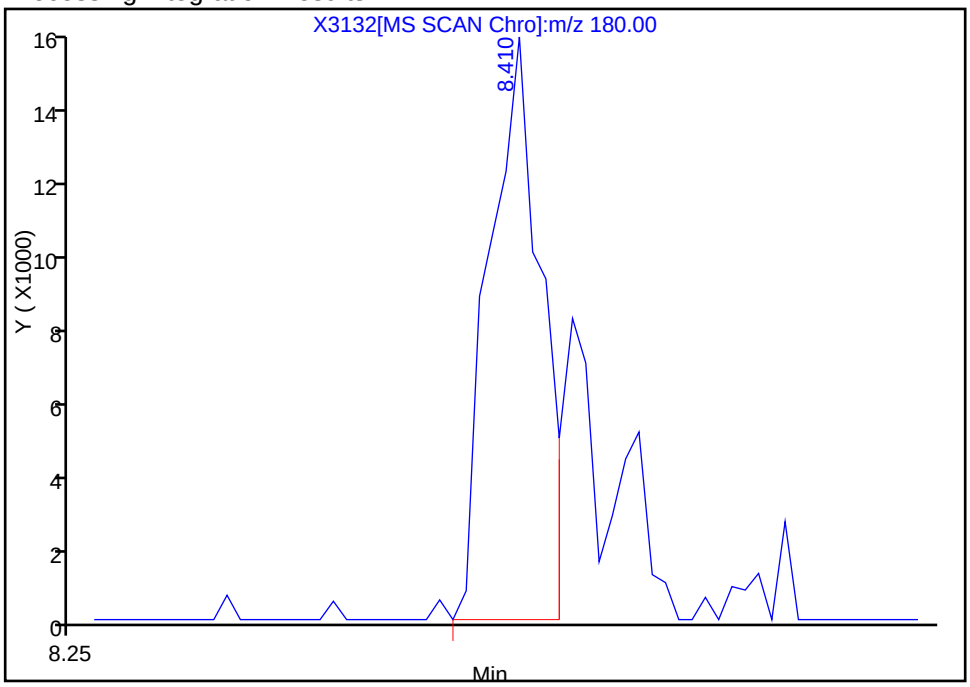
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

48 1,2,4-Trichlorobenzene, Signal: 1, m/z: 180.0 Type: quant, RT: 8.41

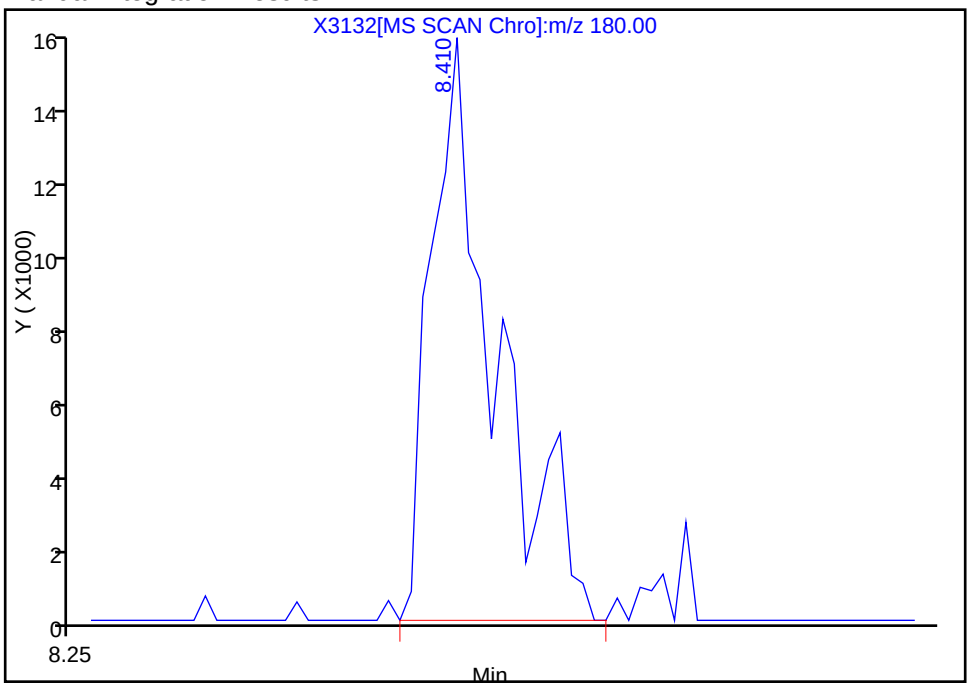
Processing Integration Results

RT: 8.41
Response: 20660
Amount: 0.500000



Manual Integration Results

RT: 8.41
Response: 29590
Amount: 0.544521



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:42:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

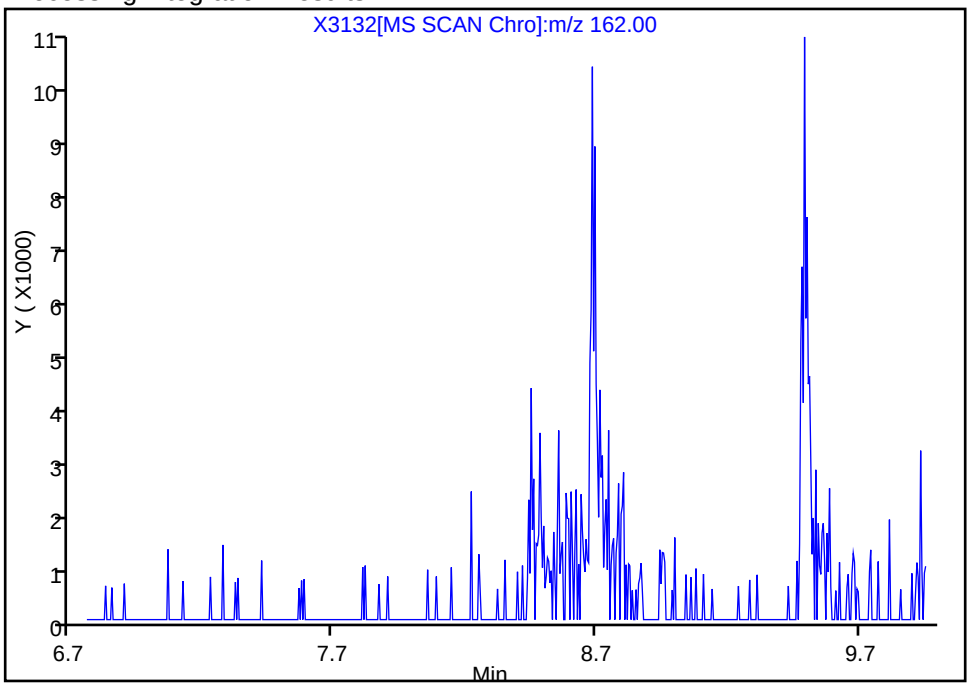
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

47 2,4-Dichlorophenol, Signal: 1, m/z: 162.0 Type: quant, RT: 8.36

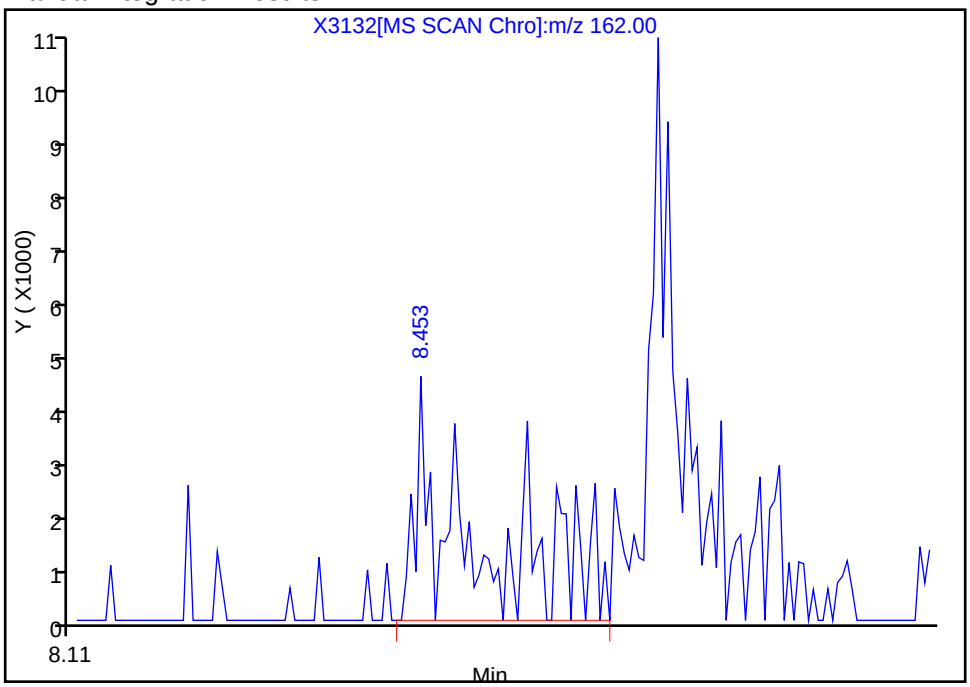
Processing Integration Results

Not Detected
Expected RT: 8.36



Manual Integration Results

RT: 8.45
Response: 15967
Amount: 0.361206



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:42:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

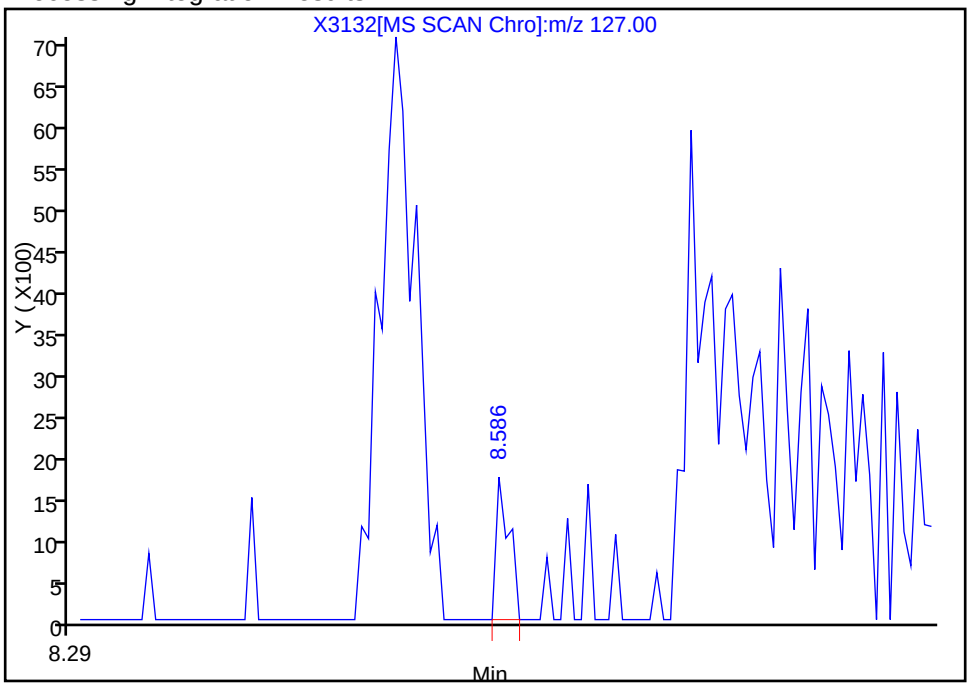
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

51 4-Chloroaniline, Signal: 1, m/z: 127.0 Type: quant, RT: 8.66

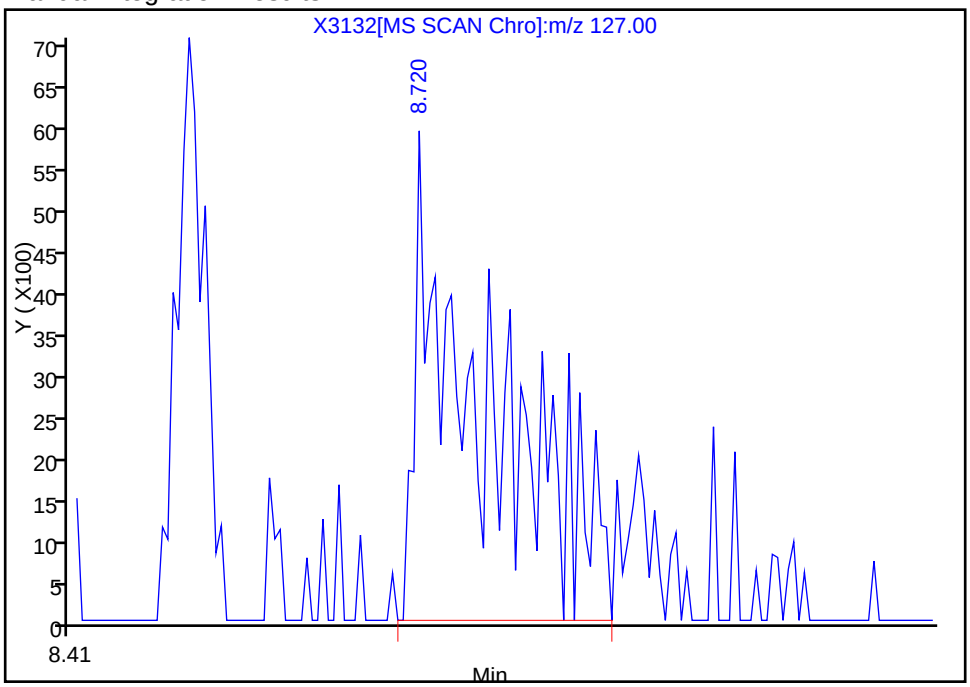
Processing Integration Results

RT: 8.59
Response: 1091
Amount: 0.500000



Manual Integration Results

RT: 8.72
Response: 25413
Amount: 0.389914



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:42:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

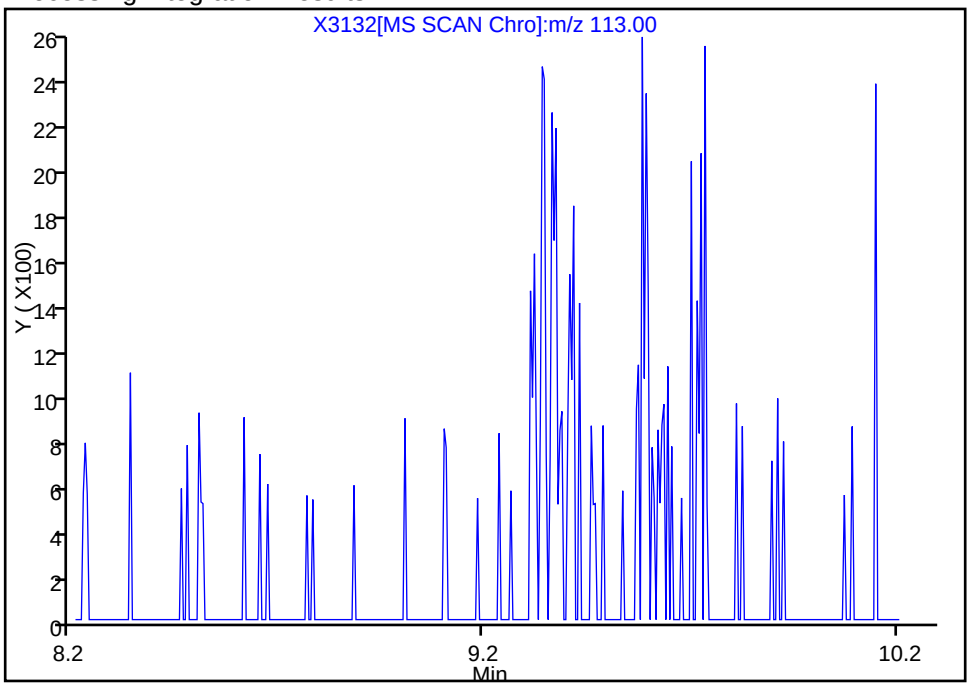
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

54 Caprolactam, Signal: 1, m/z: 113.0 Type: quant, RT: 9.21

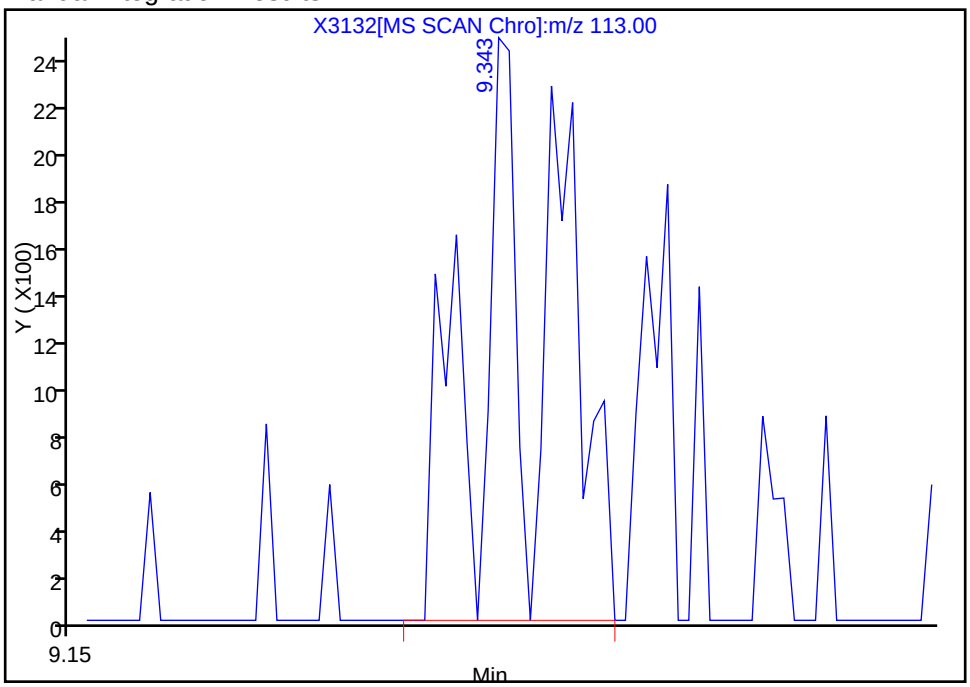
Processing Integration Results

Not Detected
Expected RT: 9.21



Manual Integration Results

RT: 9.34
Response: 5831
Amount: 0.362421



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:42:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

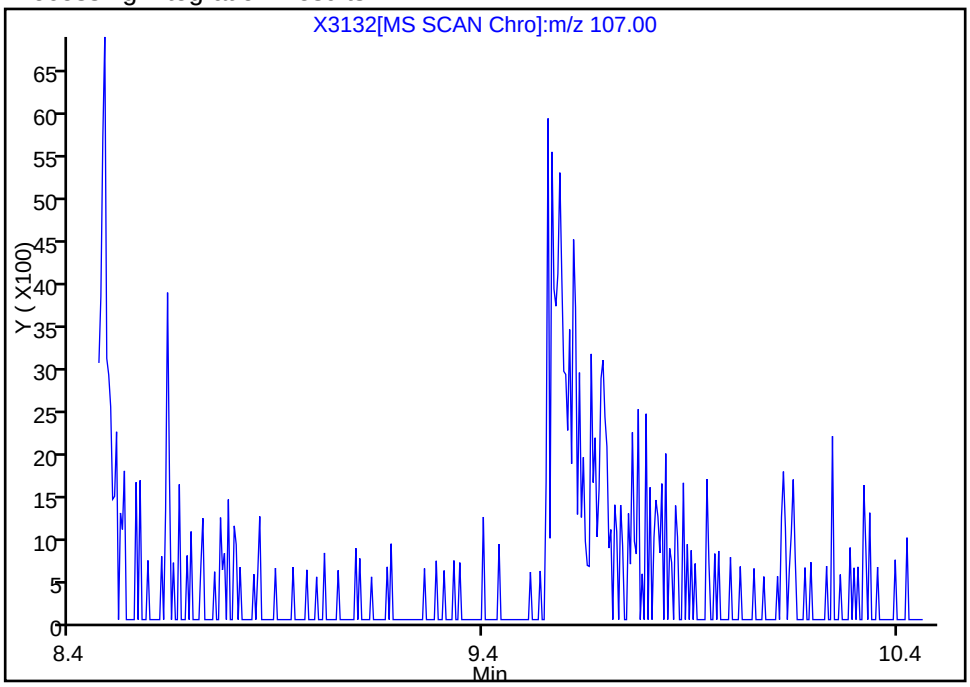
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

55 4-Chloro-3-methylphenol, Signal: 1, m/z: 107.0 Type: quant, RT: 9.47

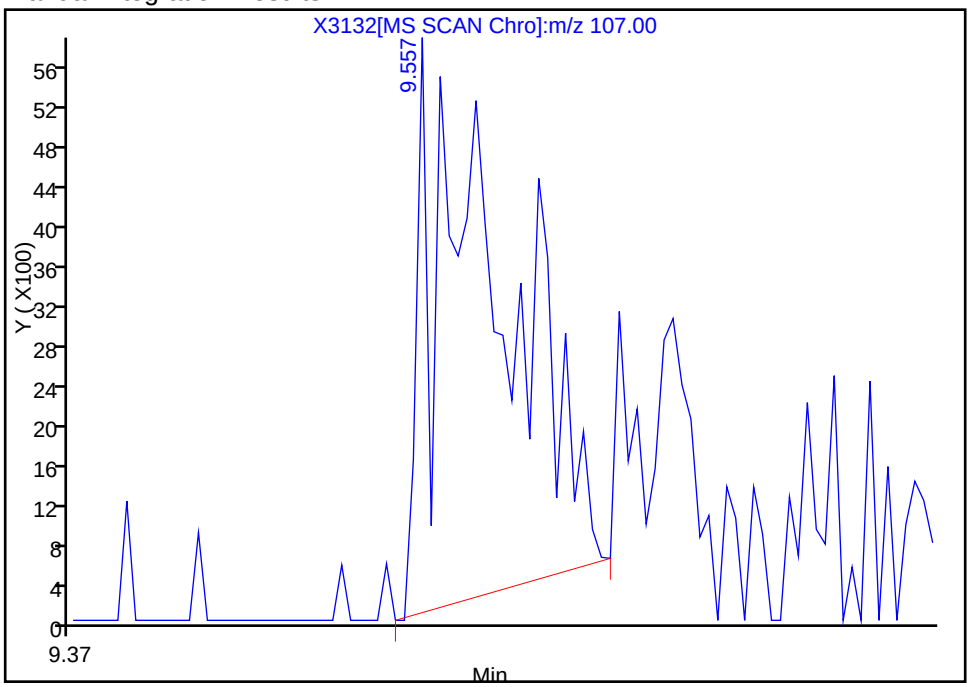
Processing Integration Results

Not Detected
Expected RT: 9.47



Manual Integration Results

RT: 9.56
Response: 16457
Amount: 0.336975



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

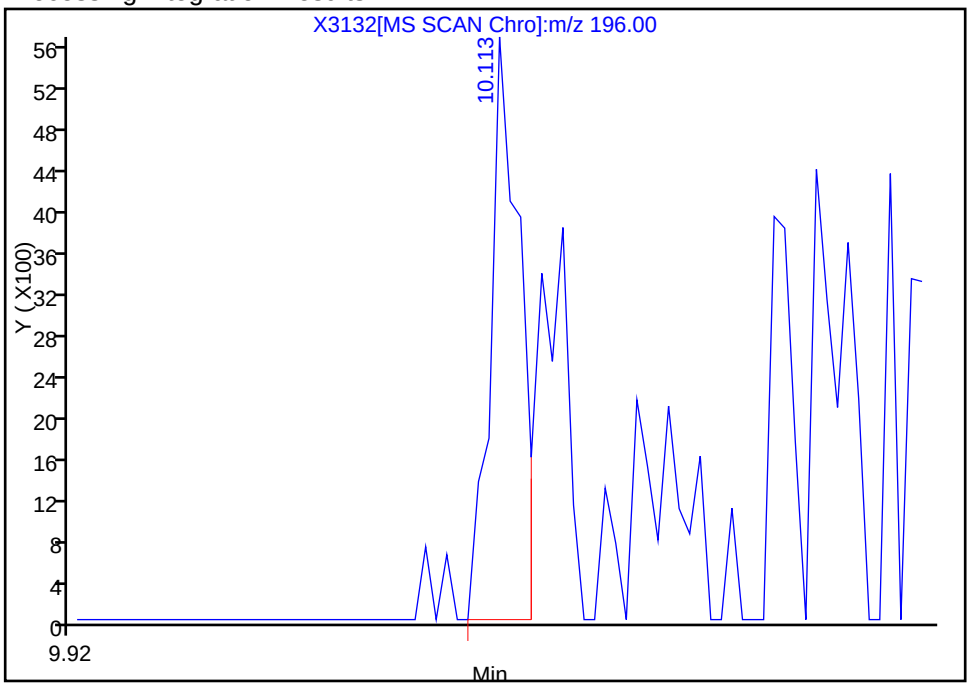
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

60 2,4,6-Trichlorophenol, Signal: 1, m/z: 196.0 Type: quant, RT: 10.04

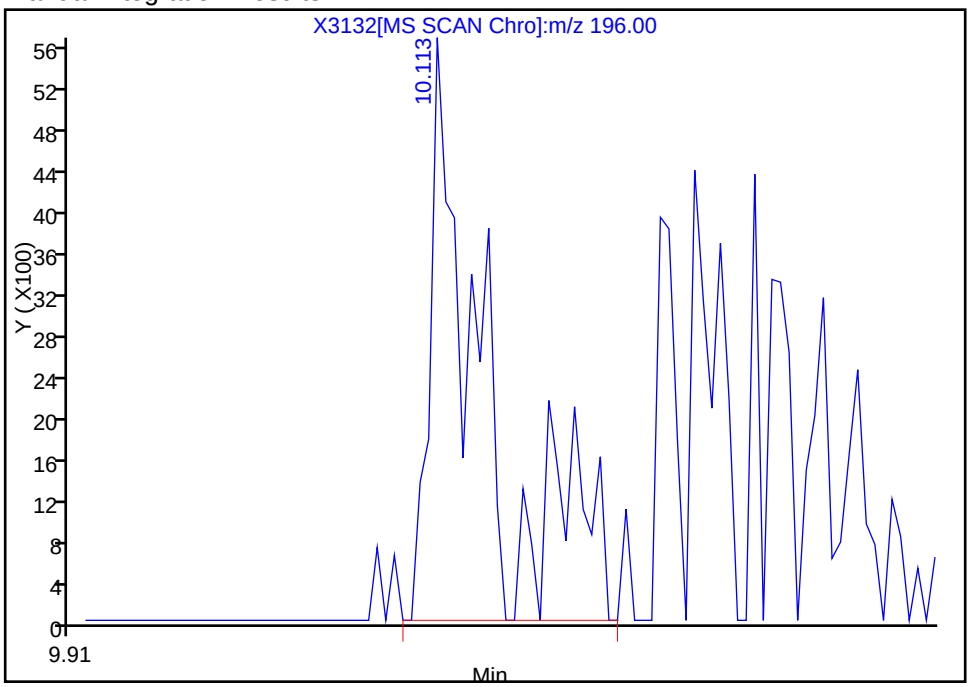
Processing Integration Results

RT: 10.11
Response: 5174
Amount: 0.500000



Manual Integration Results

RT: 10.11
Response: 11611
Amount: 0.409398



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

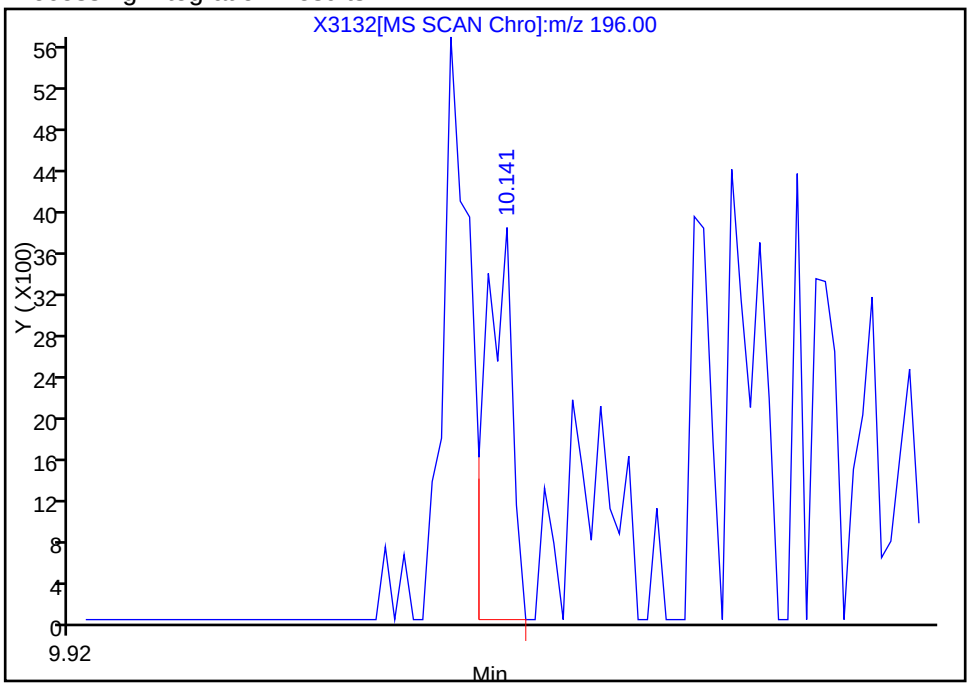
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

61 2,4,5-Trichlorophenol, Signal: 1, m/z: 196.0 Type: quant, RT: 10.15

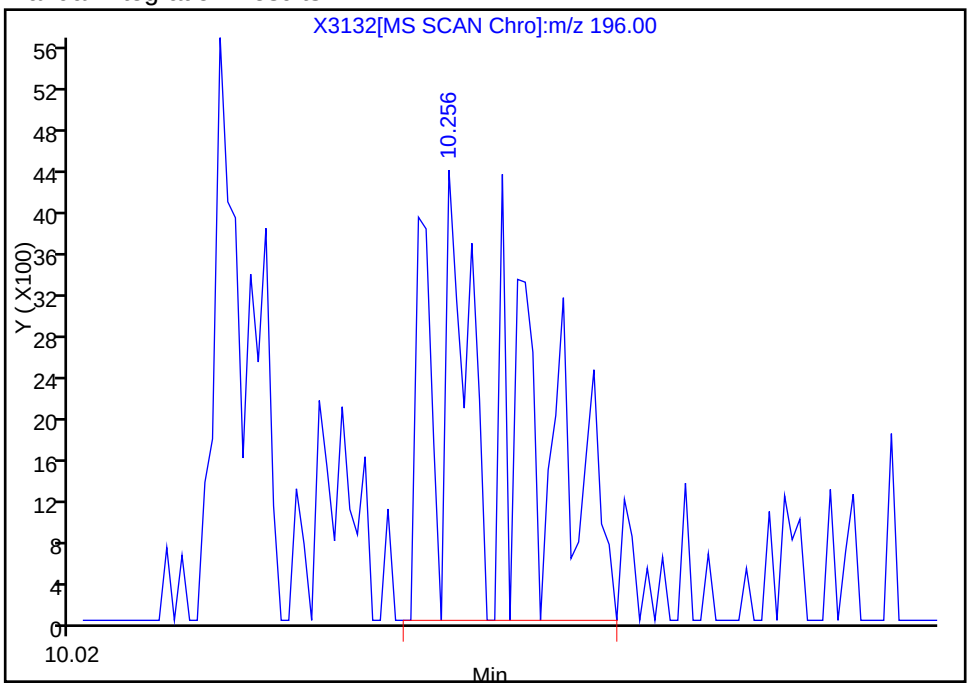
Processing Integration Results

RT: 10.14
Response: 3495
Amount: 0.500000



Manual Integration Results

RT: 10.26
Response: 14692
Amount: 0.535517



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:42:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

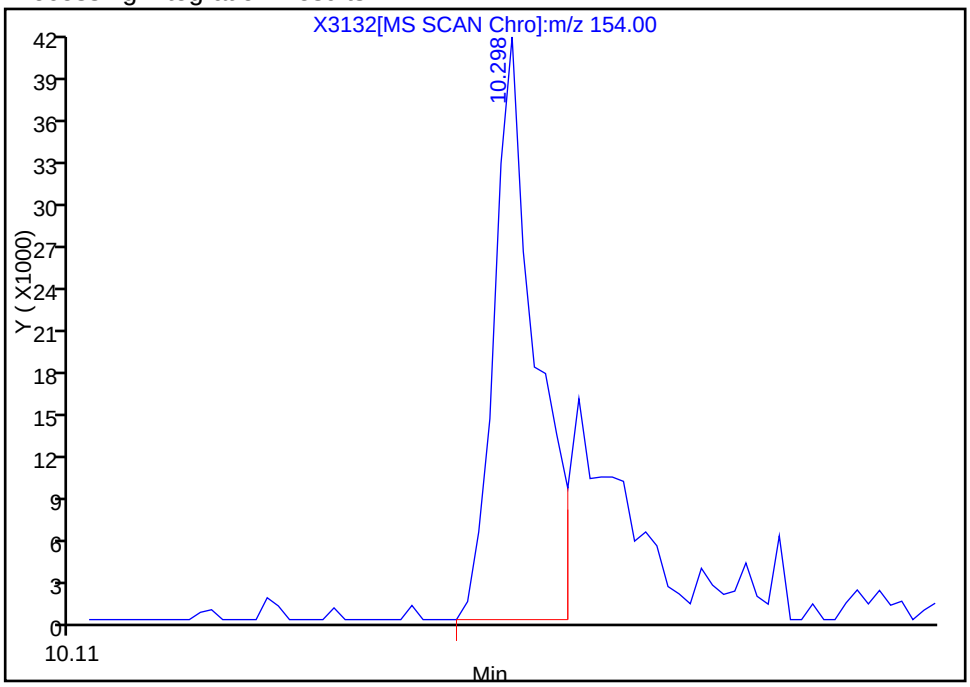
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

62 1,1'-Biphenyl, Signal: 1, m/z: 154.0 Type: quant, RT: 10.27

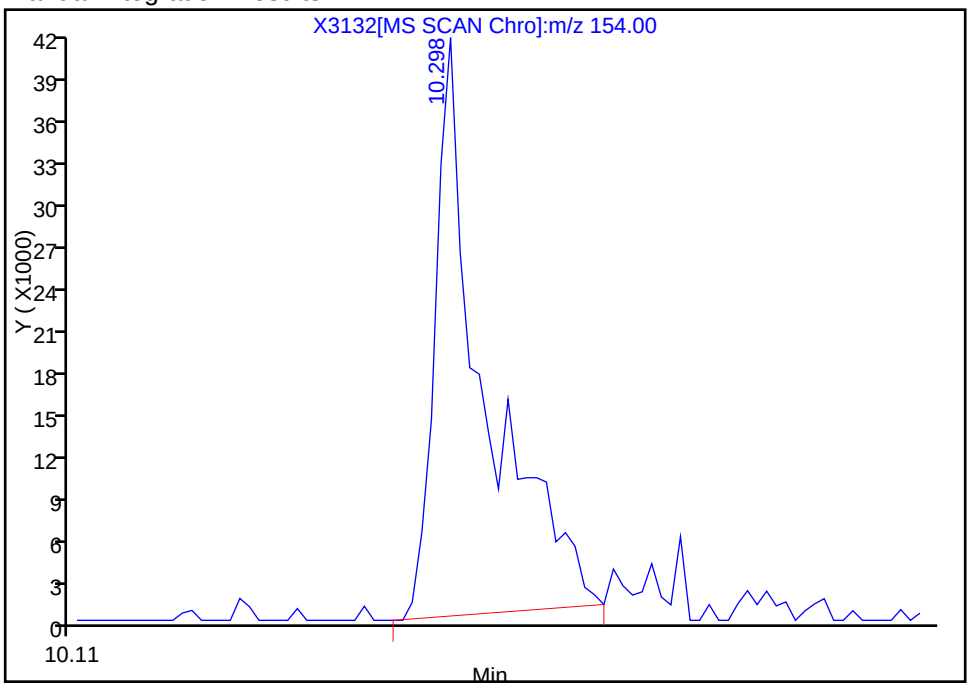
Processing Integration Results

RT: 10.30
Response: 51536
Amount: 0.500000



Manual Integration Results

RT: 10.30
Response: 70247
Amount: 0.494725



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:42:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

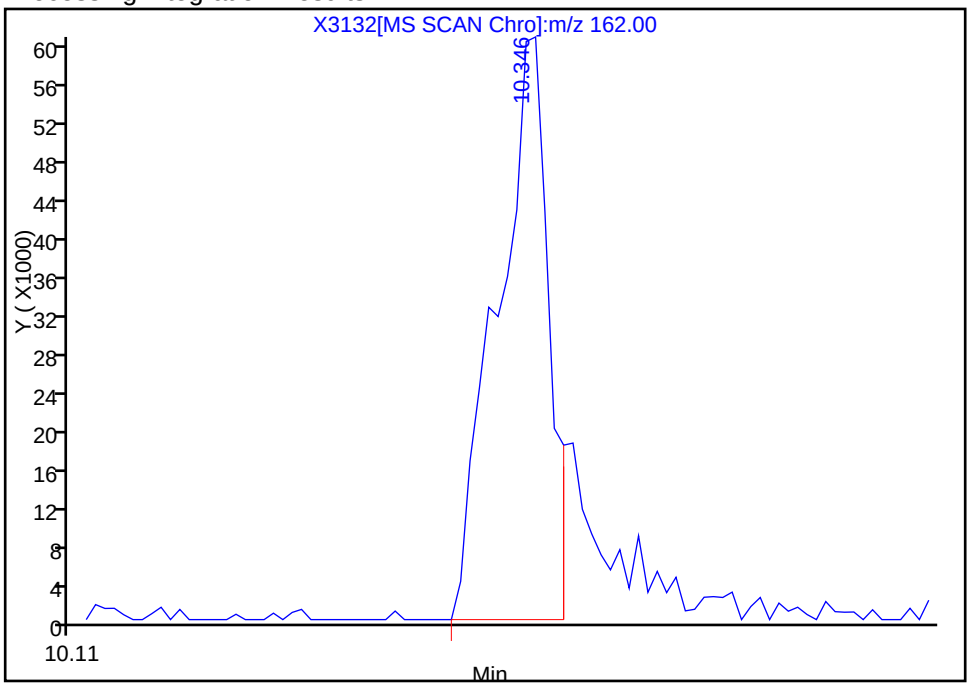
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

63 2-Chloronaphthalene, Signal: 1, m/z: 162.0 Type: quant, RT: 10.32

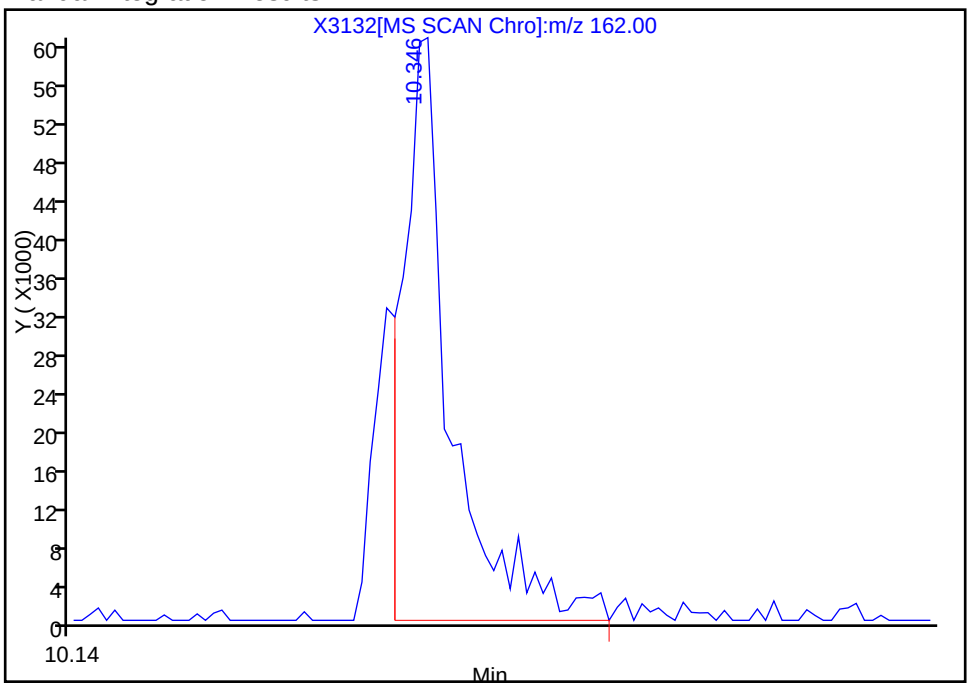
Processing Integration Results

RT: 10.35
Response: 110228
Amount: 0.500000



Manual Integration Results

RT: 10.35
Response: 115849
Amount: 0.538325



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Split an Integrated Peak
Audit Reason: Coelution

Report Date: 18-Dec-2012 16:42:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

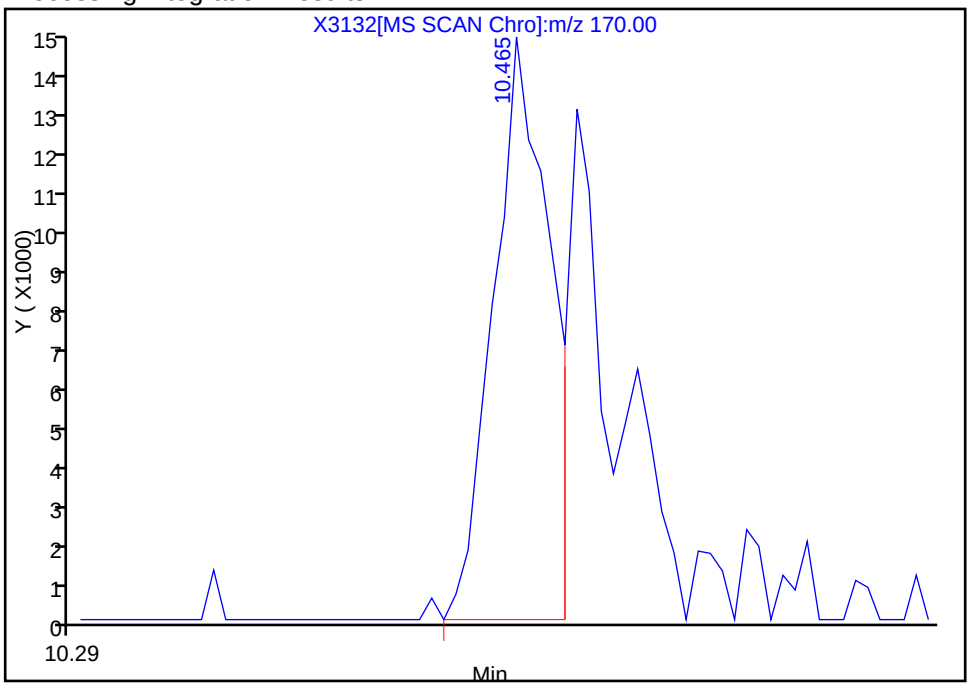
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

64 Phenyl ether, Signal: 1, m/z: 170.0 Type: quant, RT: 10.44

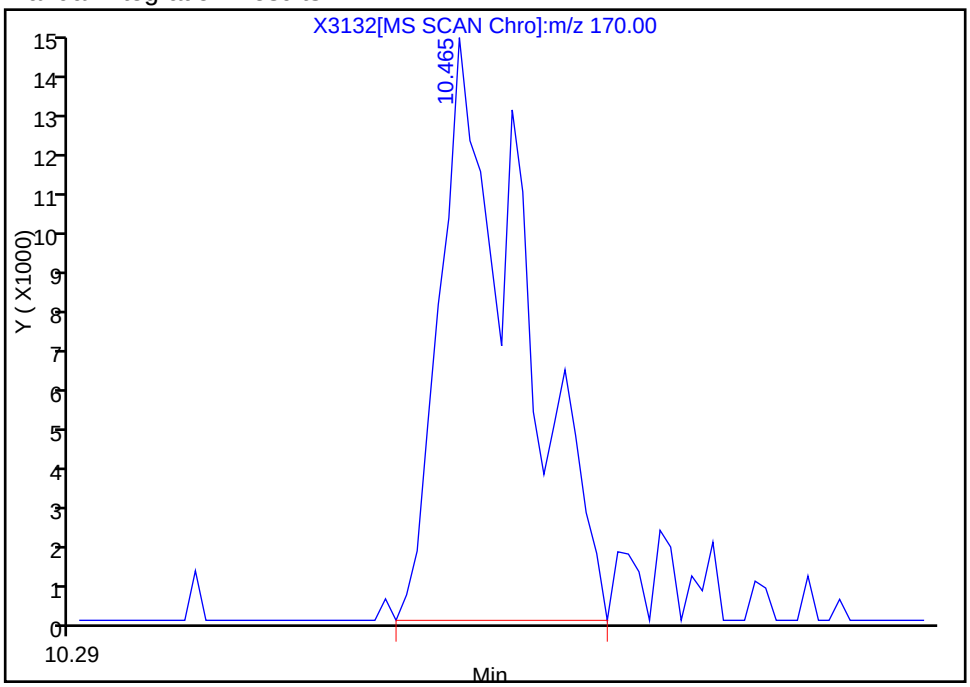
Processing Integration Results

RT: 10.46
Response: 22947
Amount: 0



Manual Integration Results

RT: 10.46
Response: 38232
Amount: 0.495097



Reviewer: mckernar, 18-Dec-2012 13:05:38
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Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:42:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

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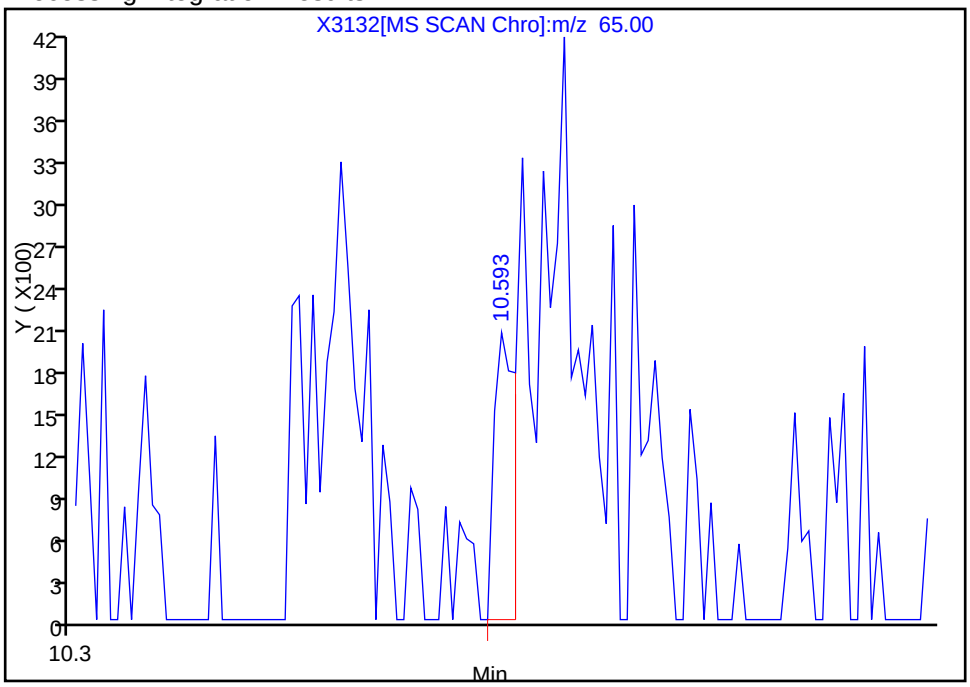
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

65 2-Nitroaniline, Signal: 1, m/z: 65.0 Type: quant, RT: 10.51

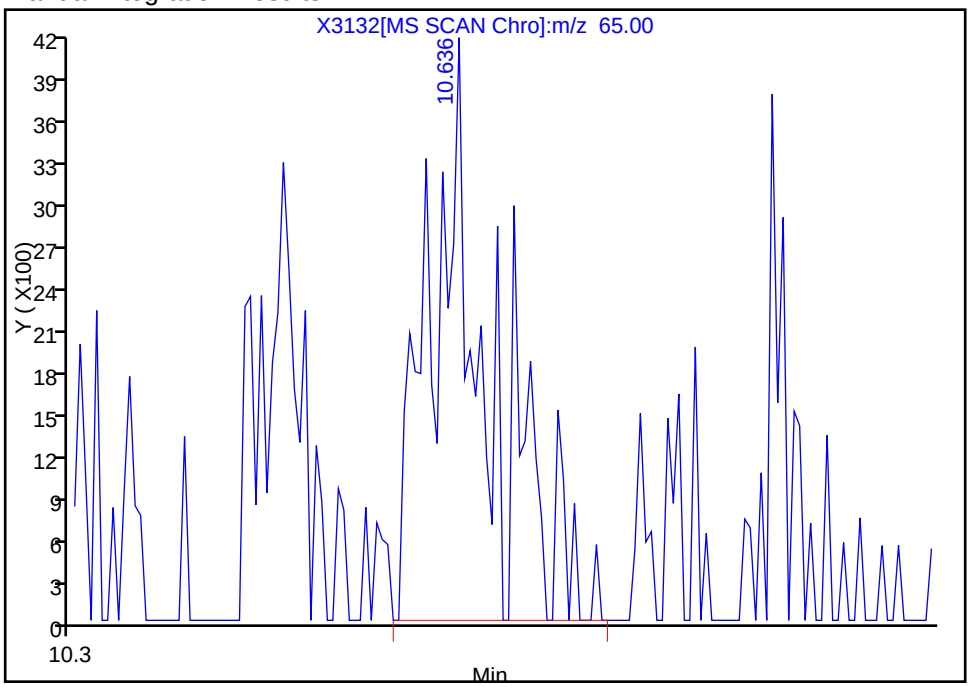
Processing Integration Results

RT: 10.59
Response: 2030
Amount: 0.500000



Manual Integration Results

RT: 10.64
Response: 14515
Amount: 0.446249



Reviewer: mckernar, 18-Dec-2012 13:05:38
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Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:42:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

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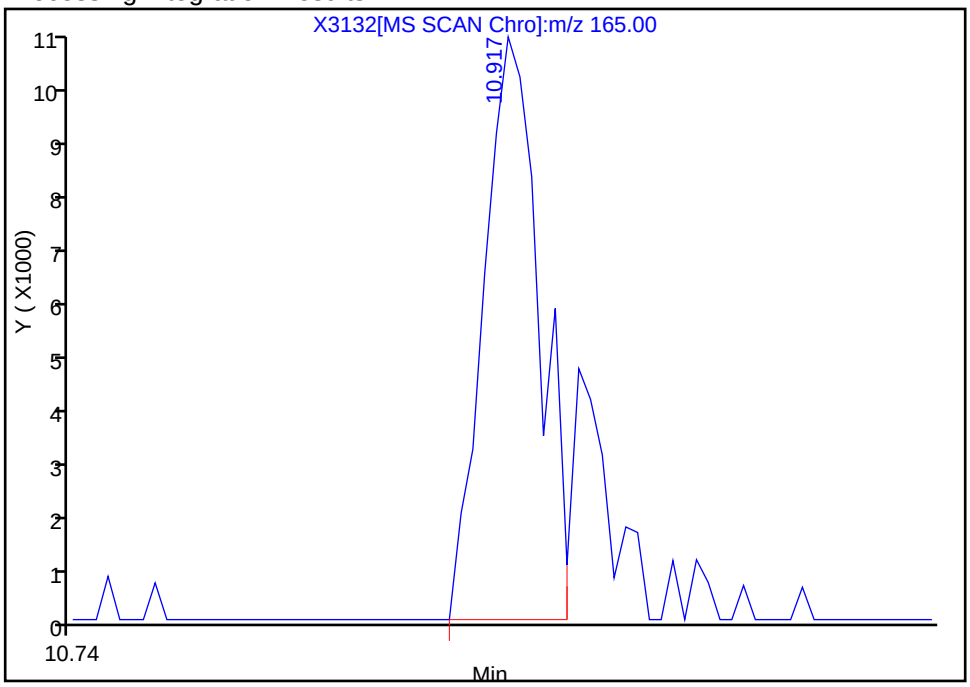
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

68 2,6-Dinitrotoluene, Signal: 1, m/z: 165.0 Type: quant, RT: 10.86

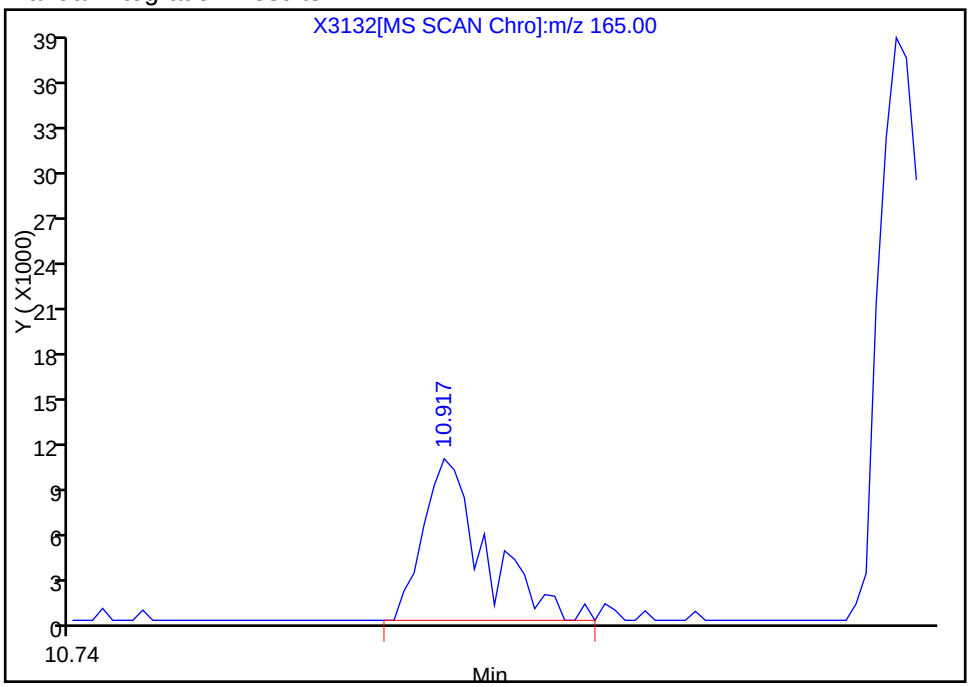
Processing Integration Results

RT: 10.92
Response: 16841
Amount: 0.500000



Manual Integration Results

RT: 10.92
Response: 21625
Amount: 0.375348



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:42:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

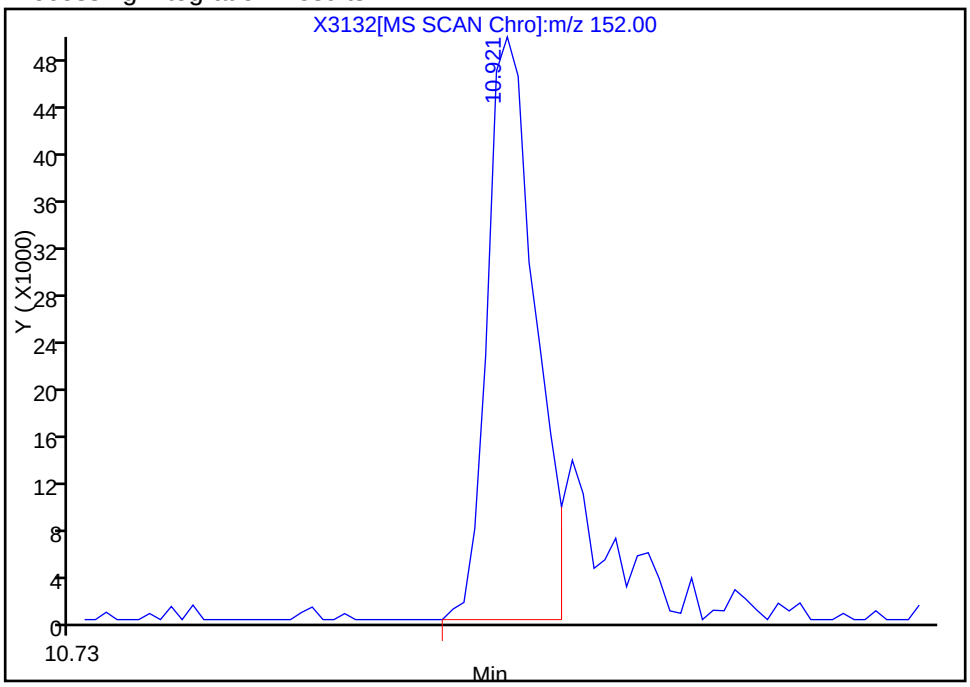
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

69 Acenaphthylene, Signal: 1, m/z: 152.0 Type: quant, RT: 10.91

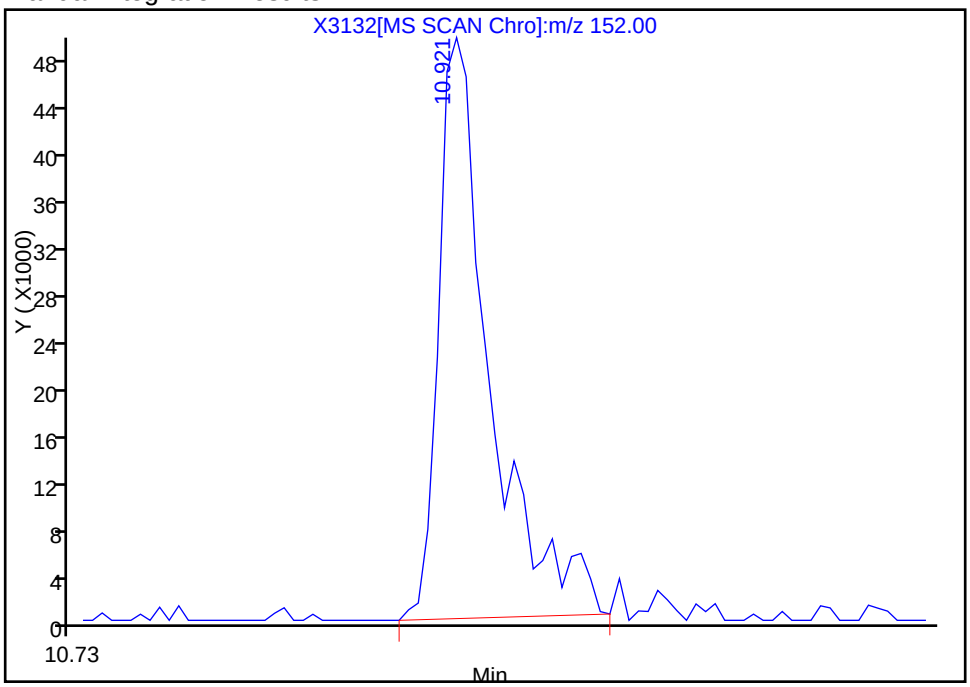
Processing Integration Results

RT: 10.92
Response: 73015
Amount: 0.500000



Manual Integration Results

RT: 10.92
Response: 88280
Amount: 0.513881



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:42:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

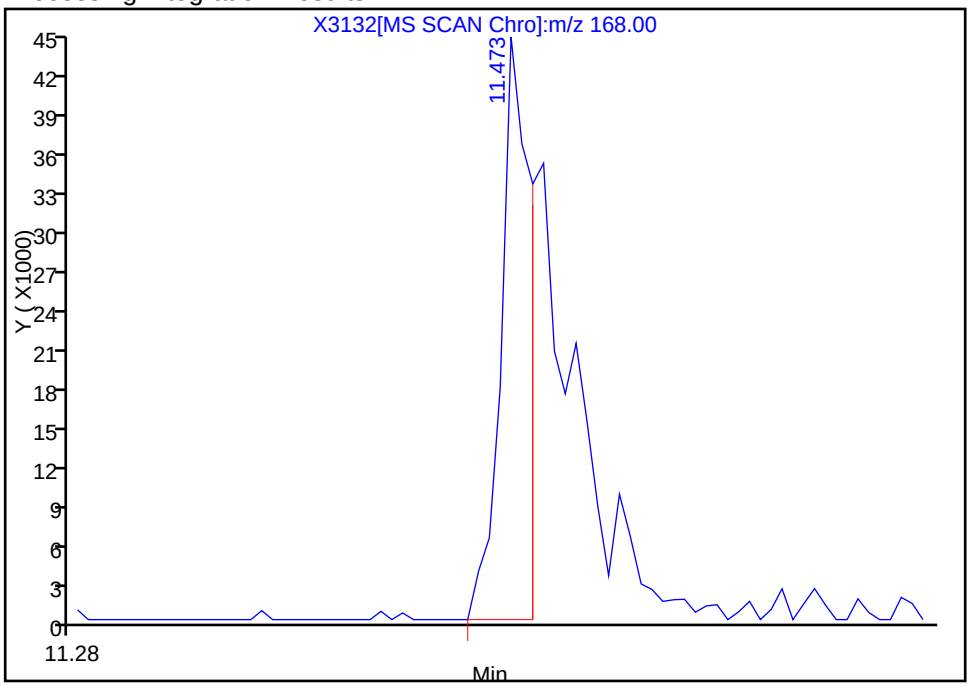
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

73 Dibenzofuran, Signal: 1, m/z: 168.0 Type: quant, RT: 11.44

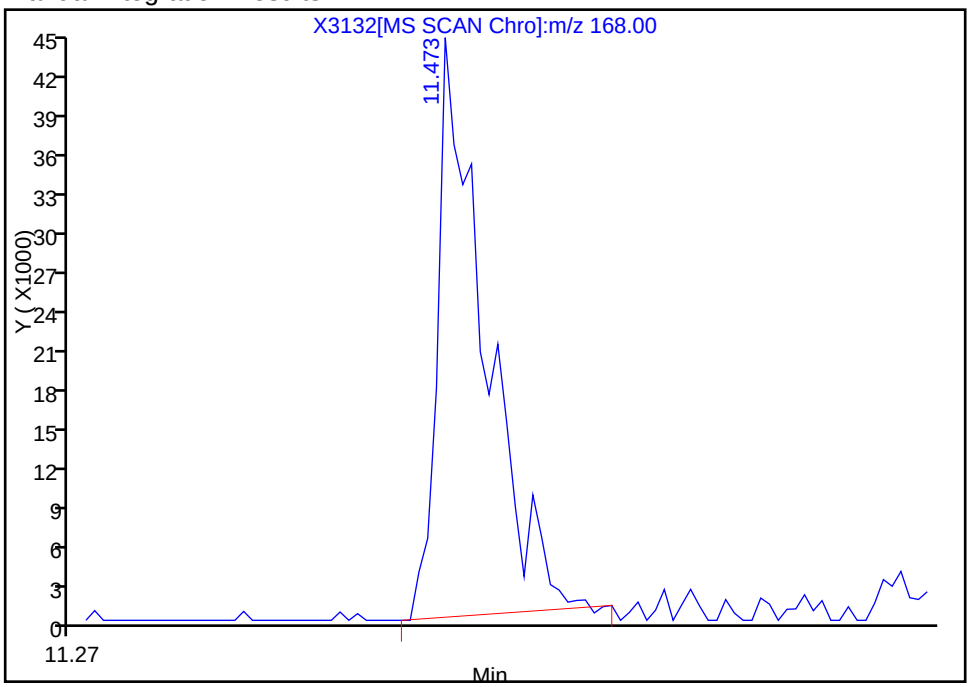
Processing Integration Results

RT: 11.47
Response: 40138
Amount: 0.476597



Manual Integration Results

RT: 11.47
Response: 78290
Amount: 0.536539



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:42:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

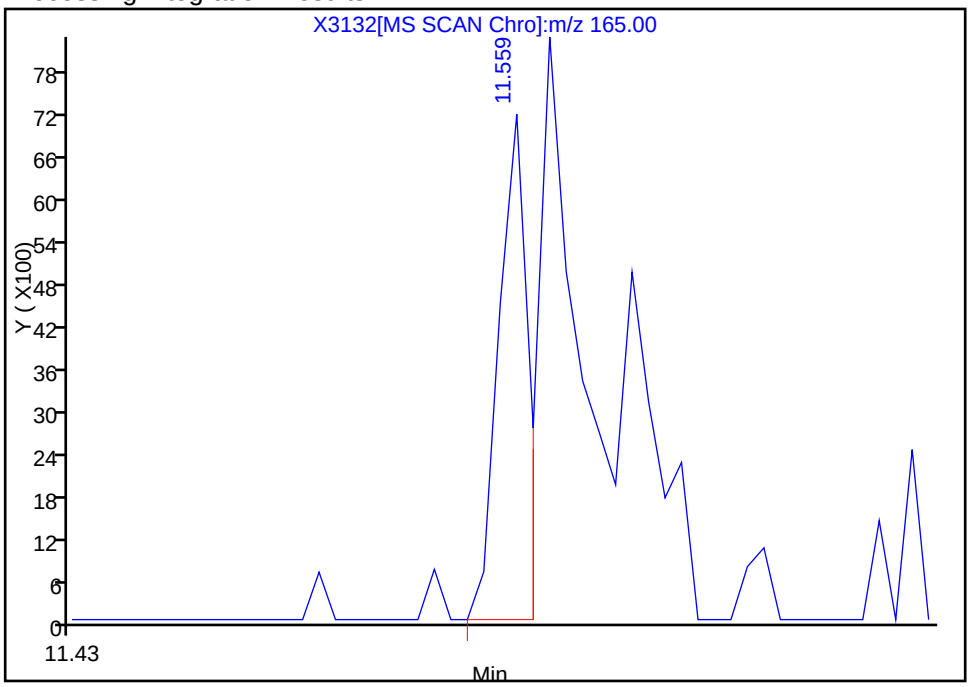
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

74 2,4-Dinitrotoluene, Signal: 1, m/z: 165.0 Type: quant, RT: 11.49

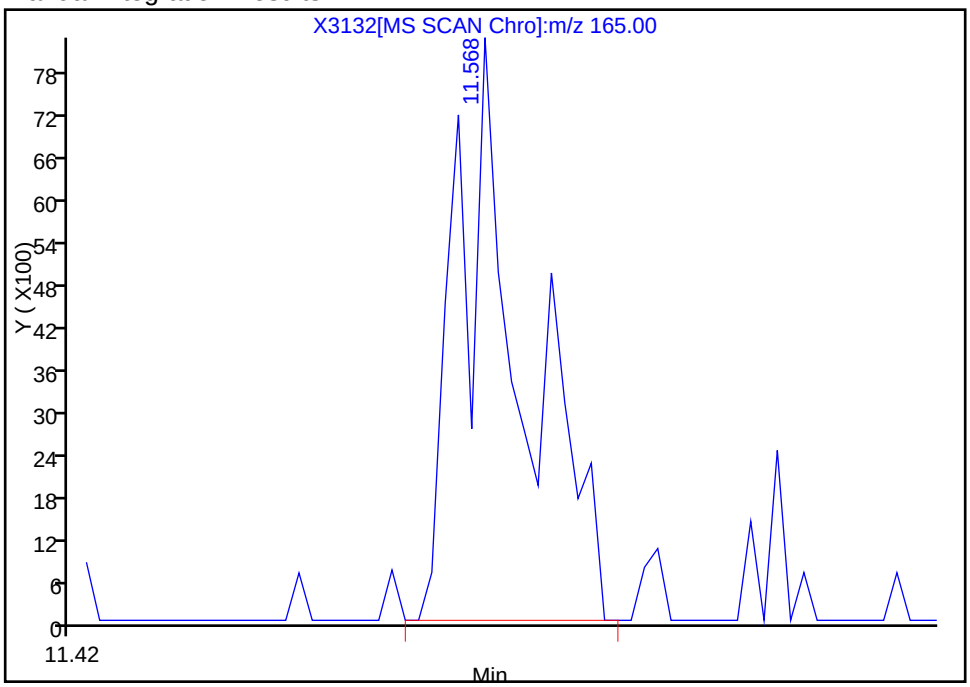
Processing Integration Results

RT: 11.56
Response: 4285
Amount: 0.500000



Manual Integration Results

RT: 11.57
Response: 13719
Amount: 0.373061



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:42:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

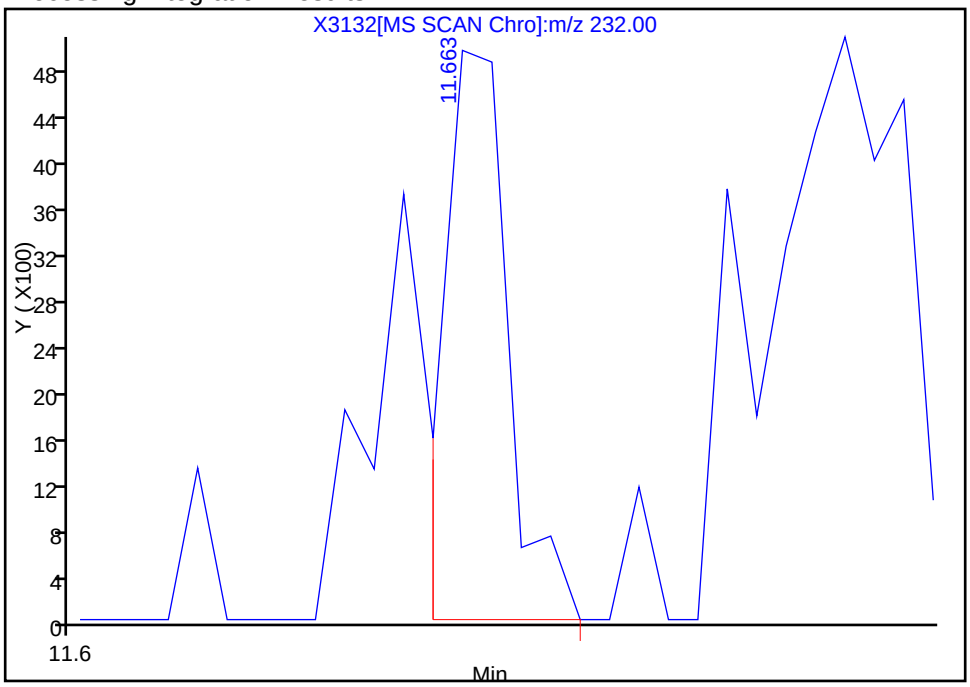
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

76 2,3,4,6-Tetrachlorophenol, Signal: 1, m/z: 232.0 Type: quant, RT: 11.67

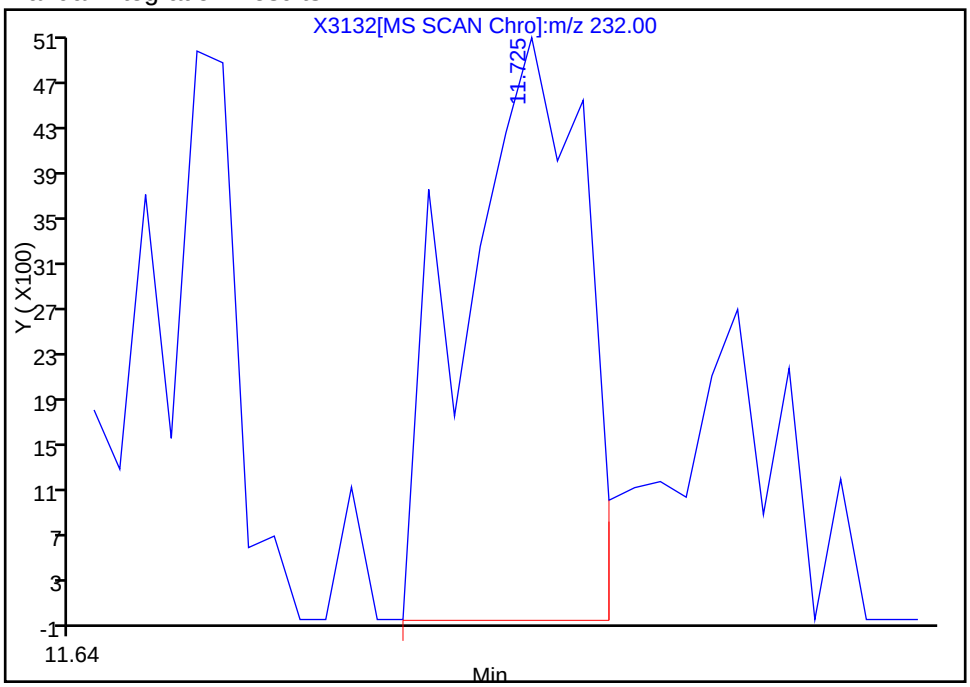
Processing Integration Results

RT: 11.66
Response: 3635
Amount: 0.500000



Manual Integration Results

RT: 11.73
Response: 7906
Amount: 0.358219



Reviewer: mckernar, 18-Dec-2012 15:41:53
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:42:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

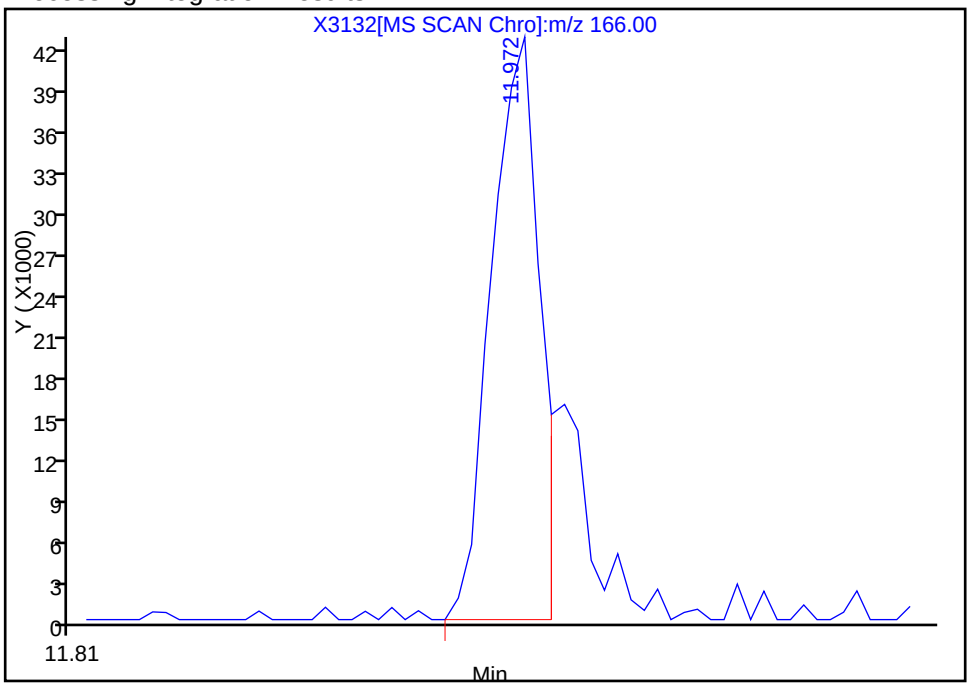
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

79 Fluorene, Signal: 1, m/z: 166.0 Type: quant, RT: 11.93

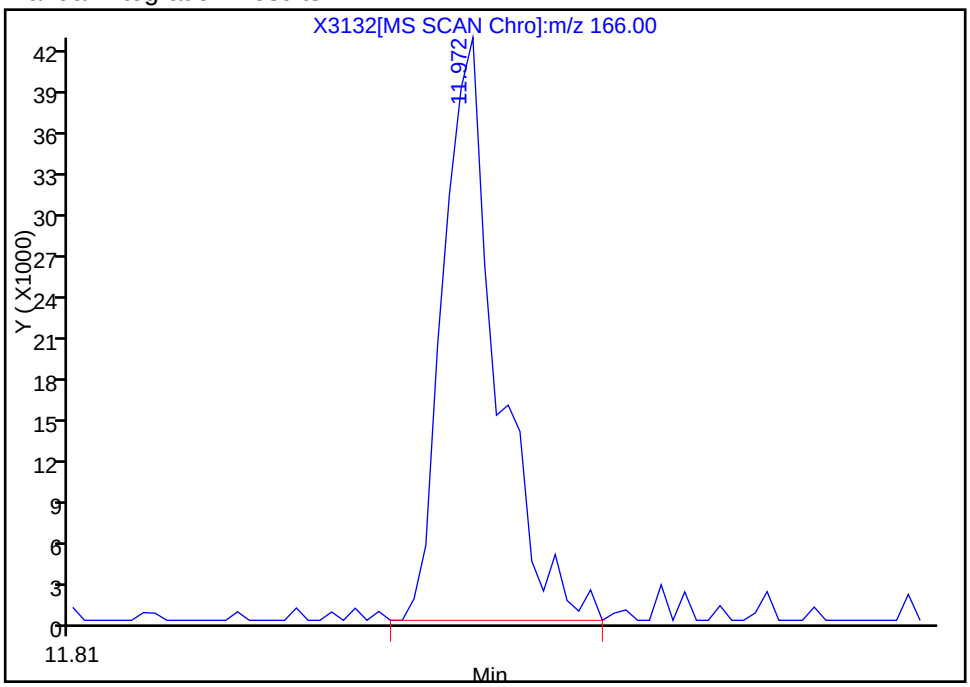
Processing Integration Results

RT: 11.97
Response: 51423
Amount: 0.500000



Manual Integration Results

RT: 11.97
Response: 64267
Amount: 0.481573



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

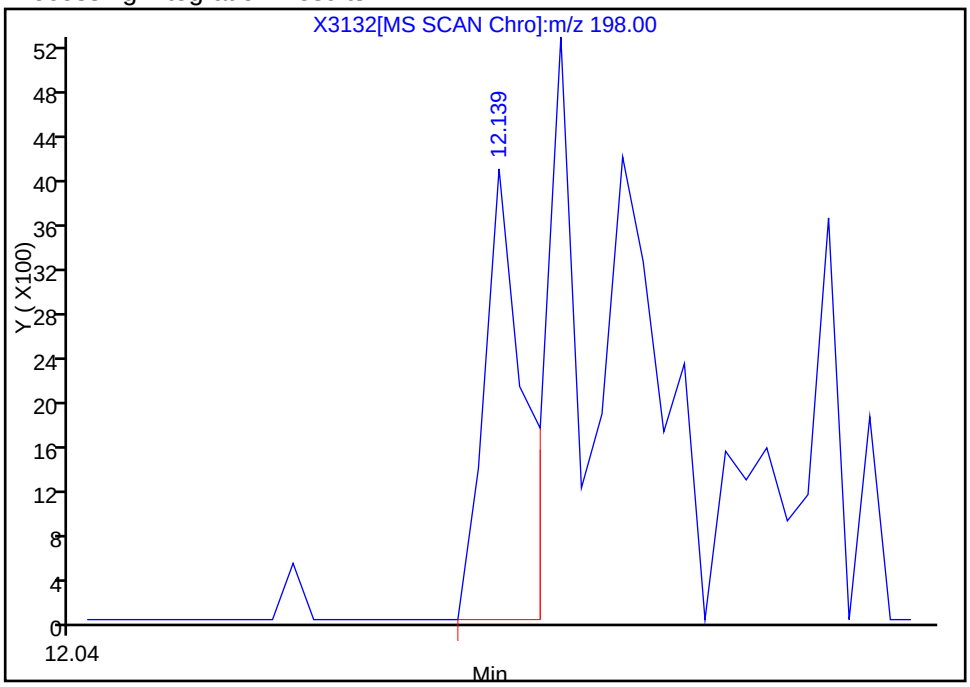
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

82 4,6-Dinitro-2-methylphenol, Signal: 1, m/z: 198.0 Type: quant, RT: 12.08

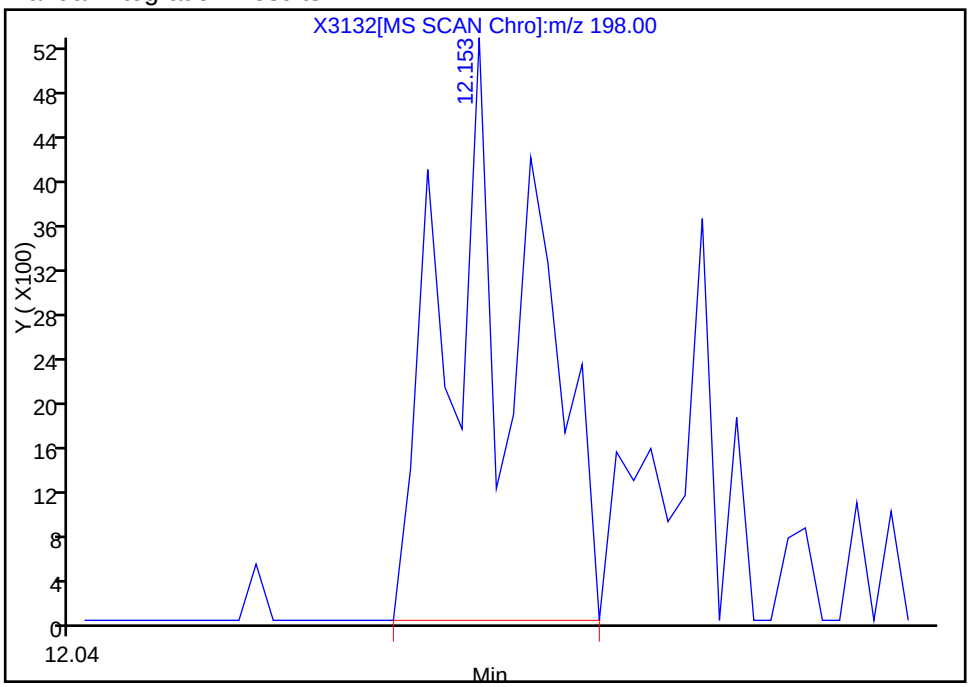
Processing Integration Results

RT: 12.14
Response: 2659
Amount: 1.000000



Manual Integration Results

RT: 12.15
Response: 8320
Amount: 1.352034



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:42:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

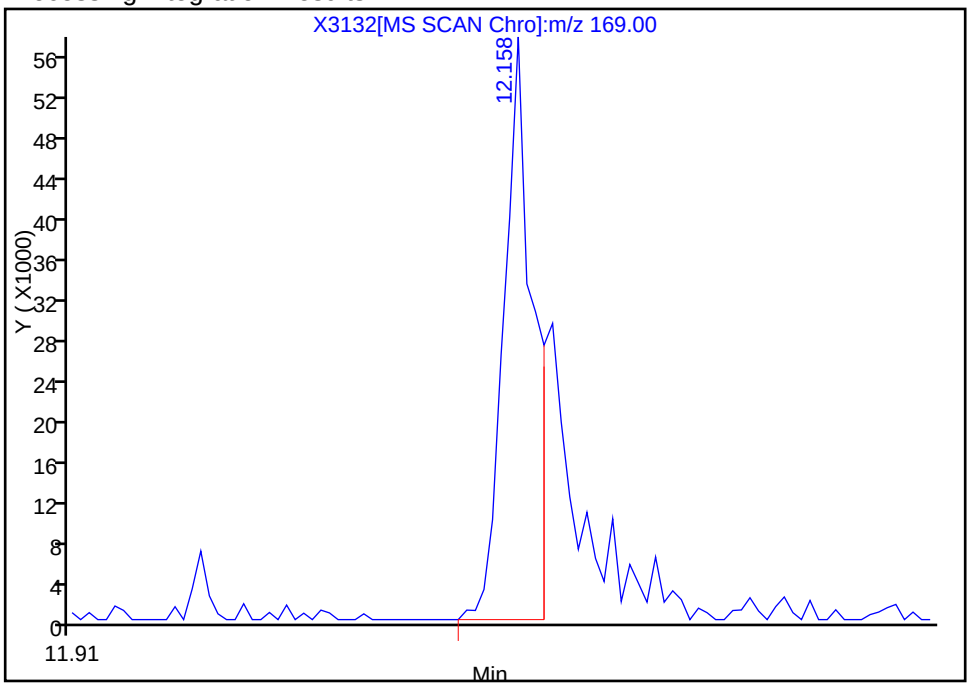
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

84 Diphenylamine, Signal: 1, m/z: 169.0 Type: quant, RT: 12.12

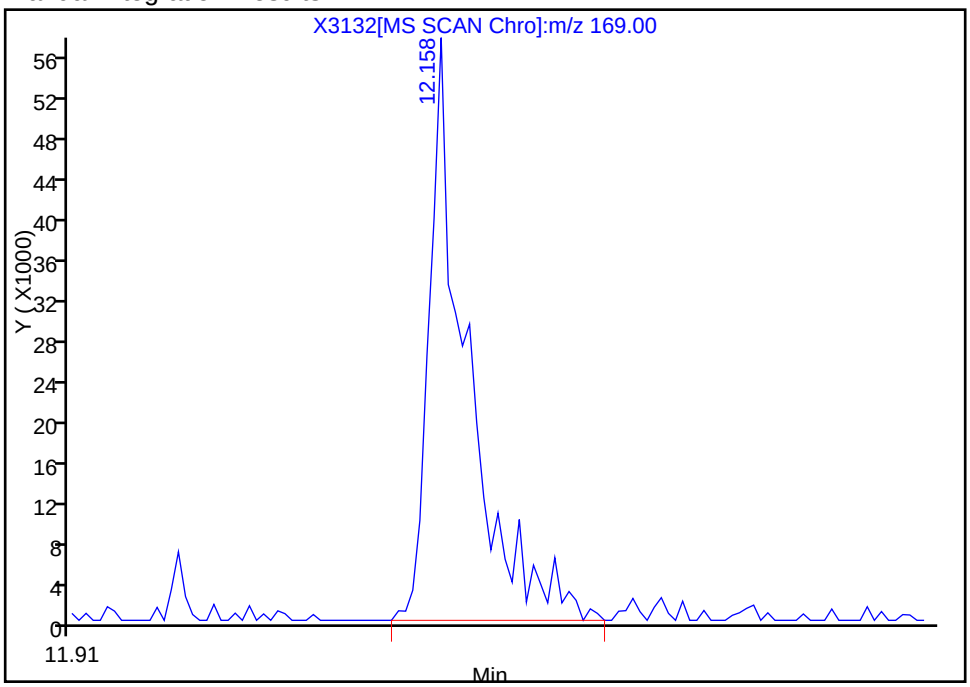
Processing Integration Results

RT: 12.16
Response: 65800
Amount: 0.469898



Manual Integration Results

RT: 12.16
Response: 101850
Amount: 0.480403



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:42:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

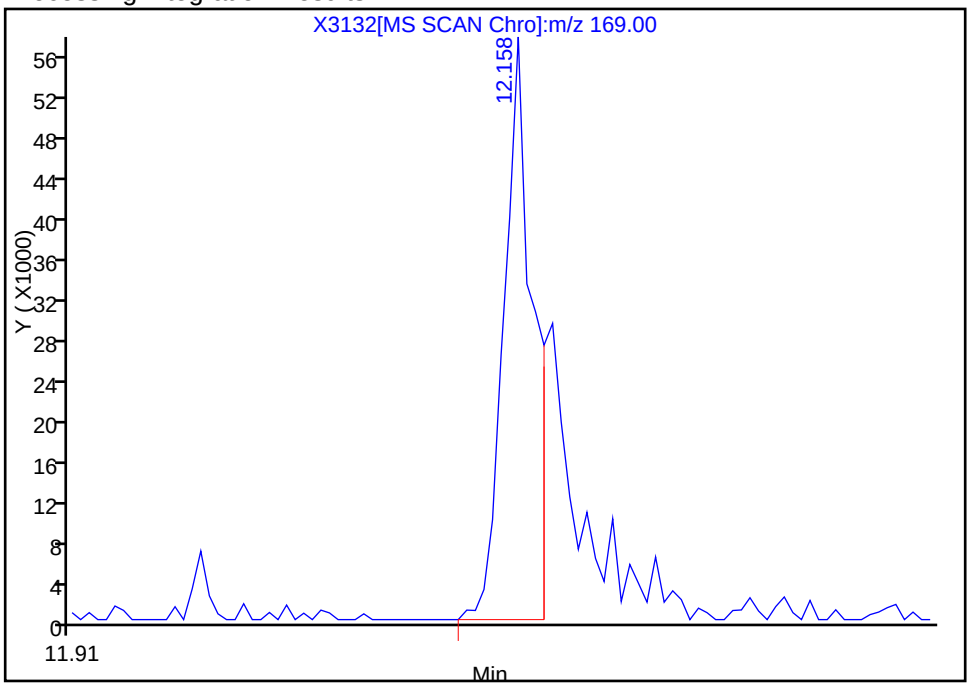
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

83 N-Nitrosodiphenylamine, Signal: 1, m/z: 169.0 Type: quant, RT: 12.12

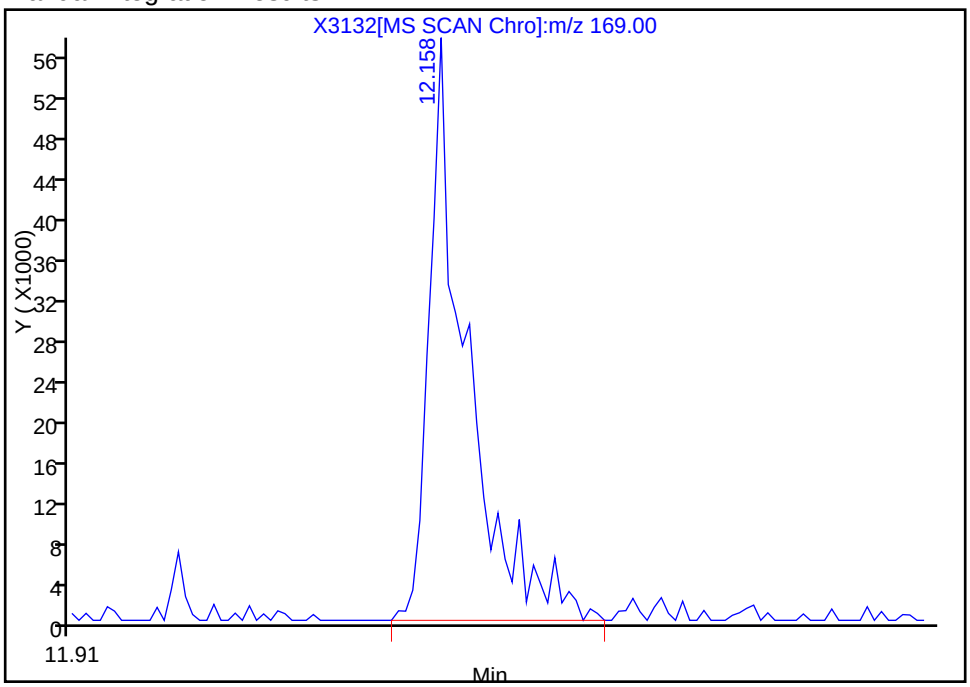
Processing Integration Results

RT: 12.16
Response: 65800
Amount: 0.472216



Manual Integration Results

RT: 12.16
Response: 101850
Amount: 0.480749



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

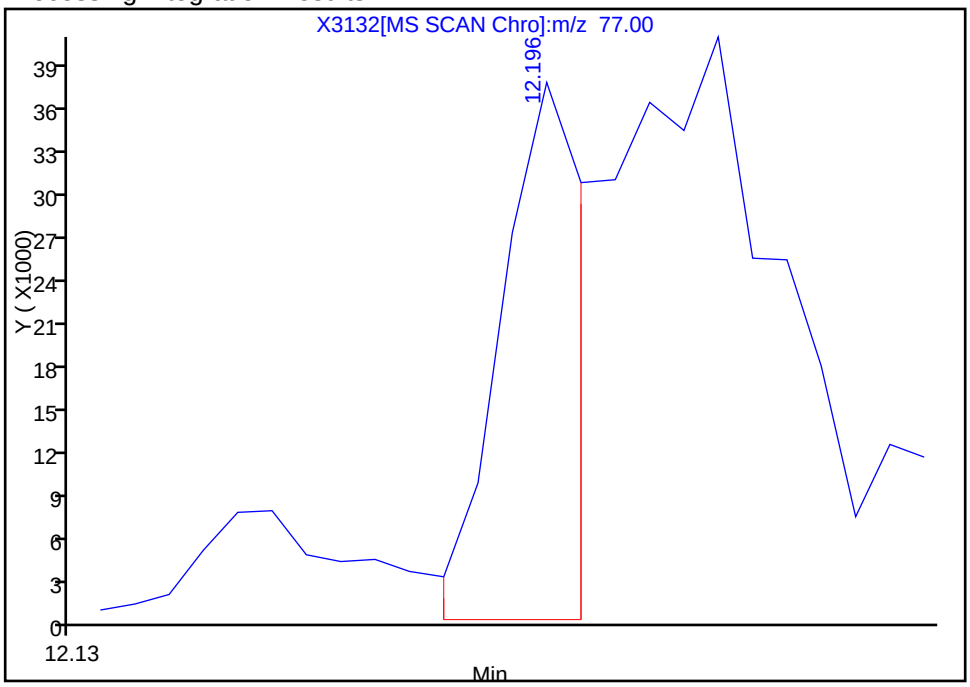
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

16 1,2-Diphenylhydrazine, Signal: 1, m/z: 77.0 Type: quant, RT: 12.17

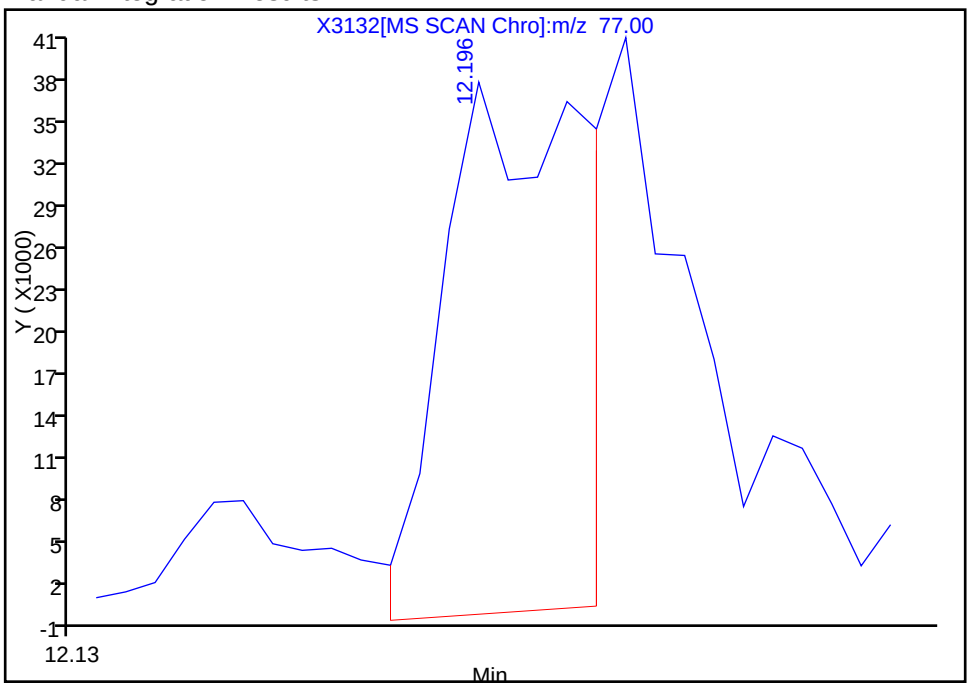
Processing Integration Results

RT: 12.20
Response: 30190
Amount: 0.500000



Manual Integration Results

RT: 12.20
Response: 59521
Amount: 0.434675



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:42:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

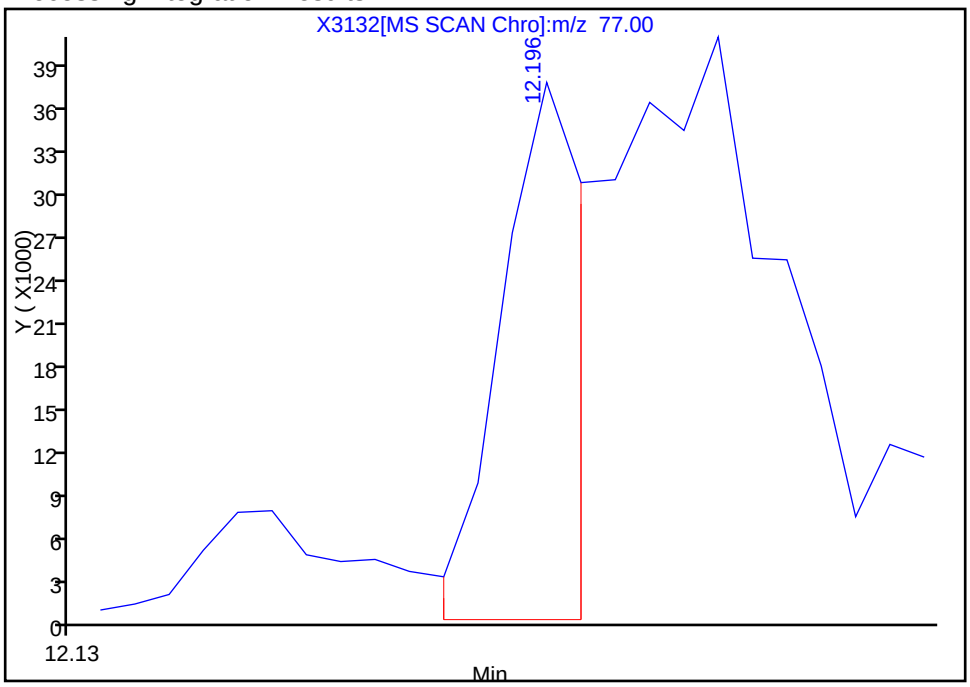
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

85 Azobenzene, Signal: 1, m/z: 77.0 Type: quant, RT: 12.17

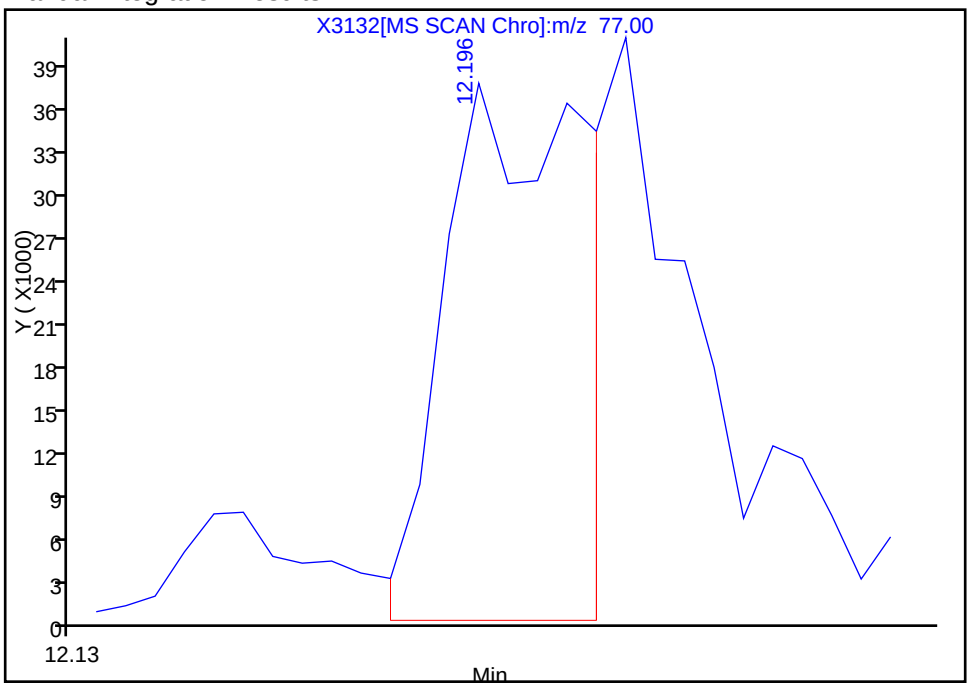
Processing Integration Results

RT: 12.20
Response: 30190
Amount: 0.500000



Manual Integration Results

RT: 12.20
Response: 58380
Amount: 0.427233



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:42:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

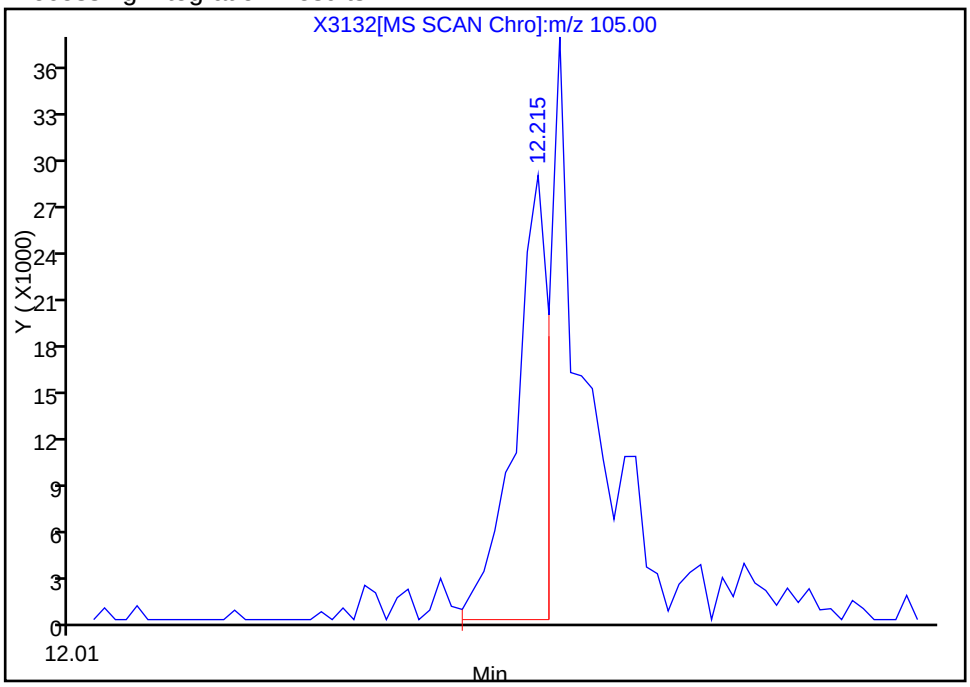
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

86 Benzophenone, Signal: 1, m/z: 105.0 Type: quant, RT: 12.19

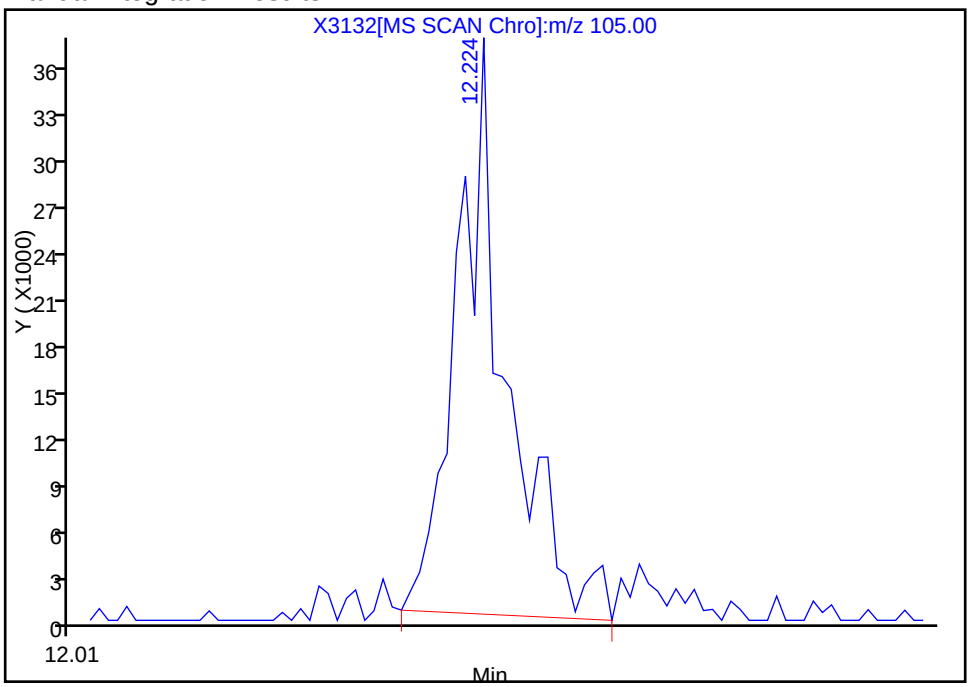
Processing Integration Results

RT: 12.21
Response: 29678
Amount: 0



Manual Integration Results

RT: 12.22
Response: 66890
Amount: 0.572698



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:42:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

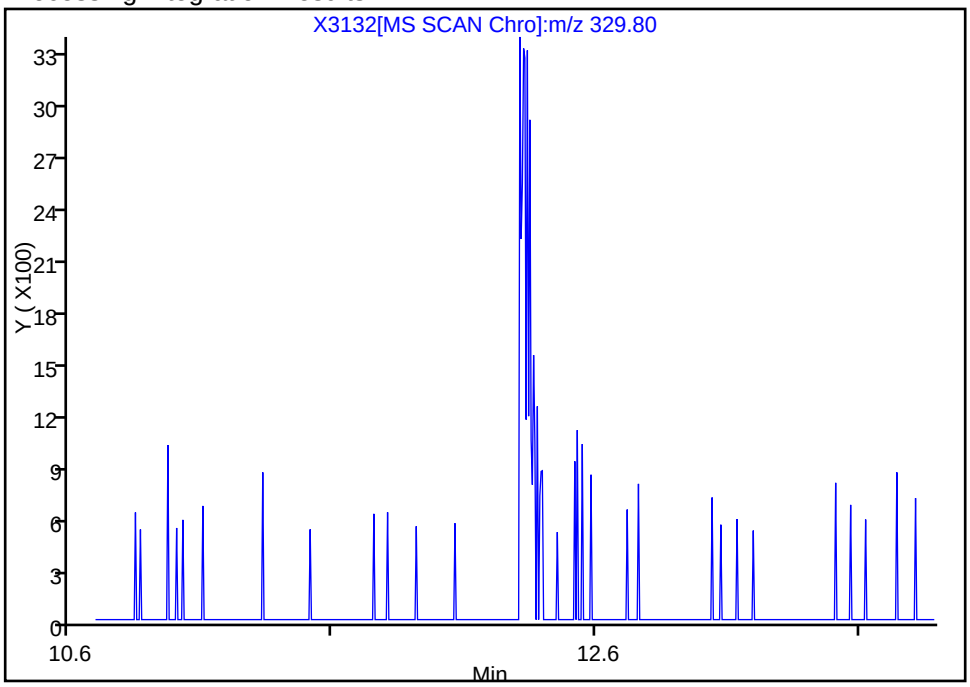
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

$ 11 2,4,6-Tribromophenol, Signal: 1, m/z: 329.8 Type: quant, RT: 12.29

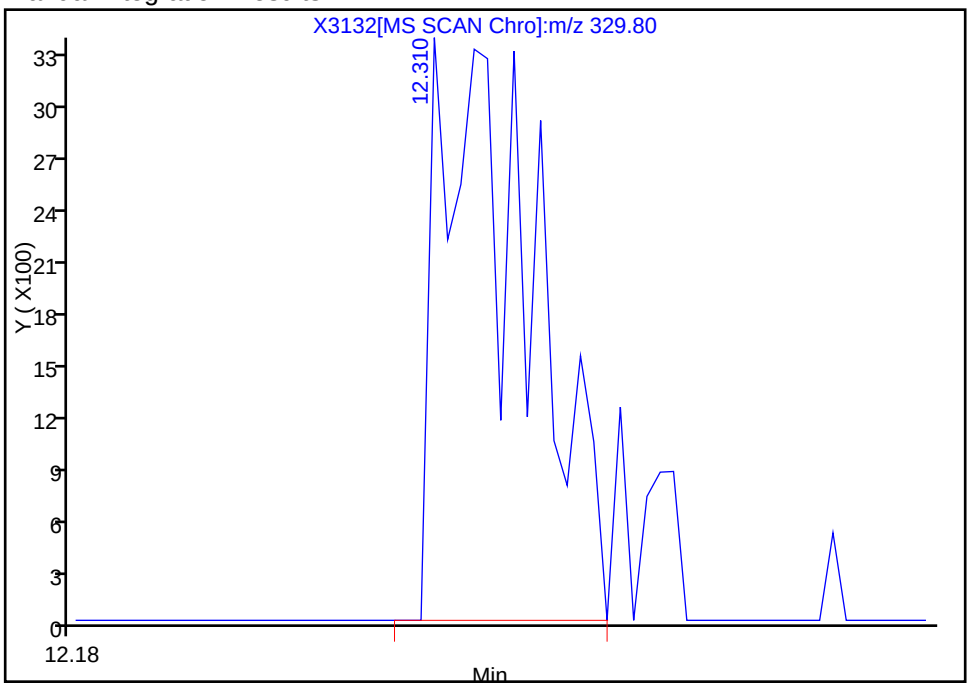
Processing Integration Results

Not Detected
Expected RT: 12.29



Manual Integration Results

RT: 12.31
Response: 7887
Amount: 0.470608



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

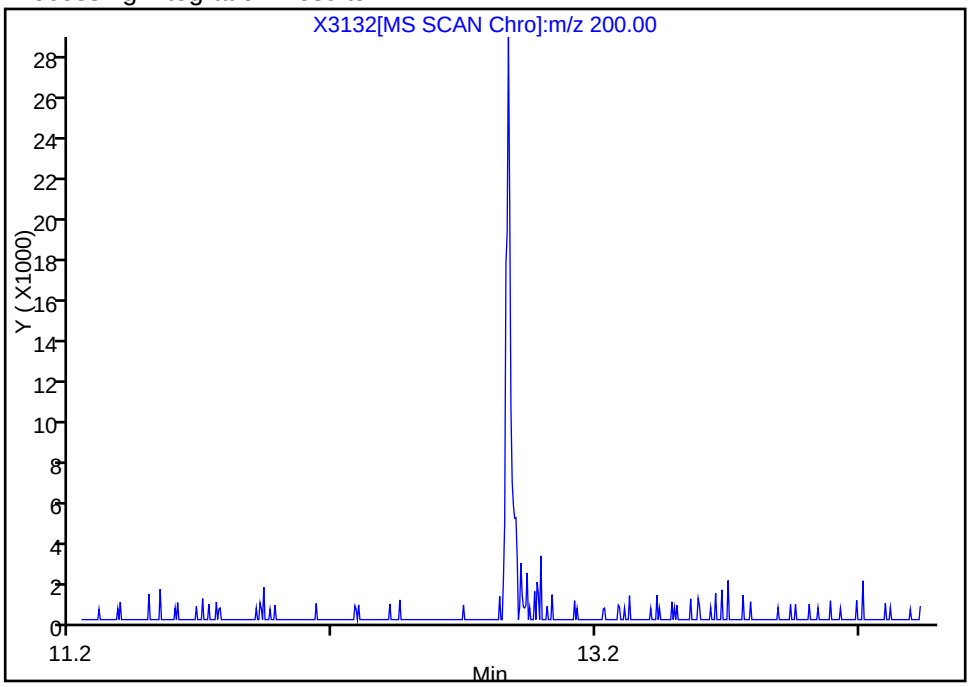
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

93 Atrazine, Signal: 1, m/z: 200.0 Type: quant, RT: 12.84

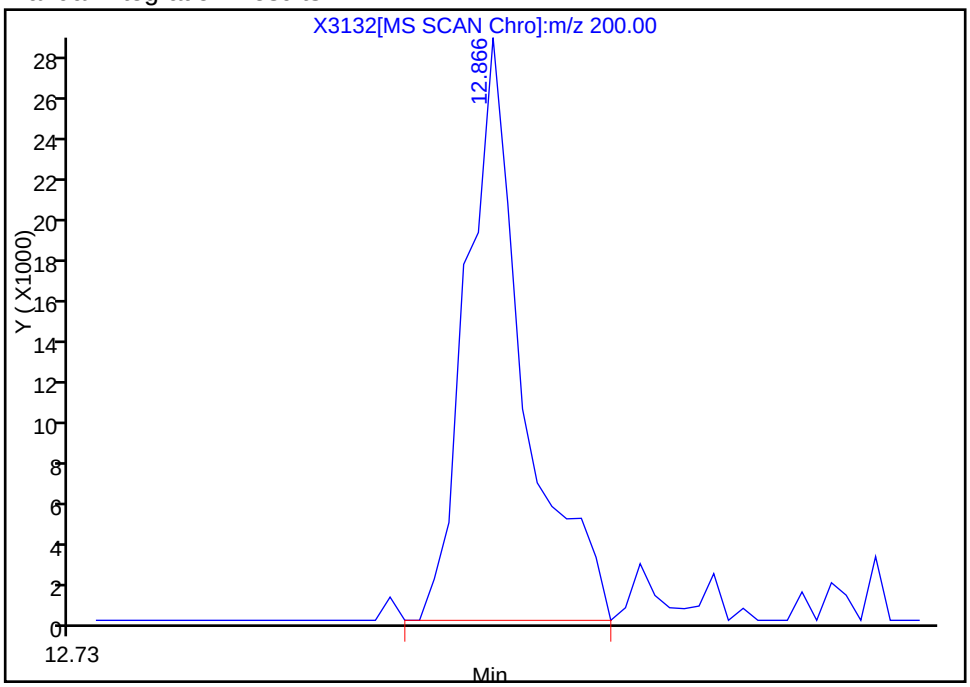
Processing Integration Results

Not Detected
Expected RT: 12.84



Manual Integration Results

RT: 12.87
Response: 36768
Amount: 0.995287



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:00 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

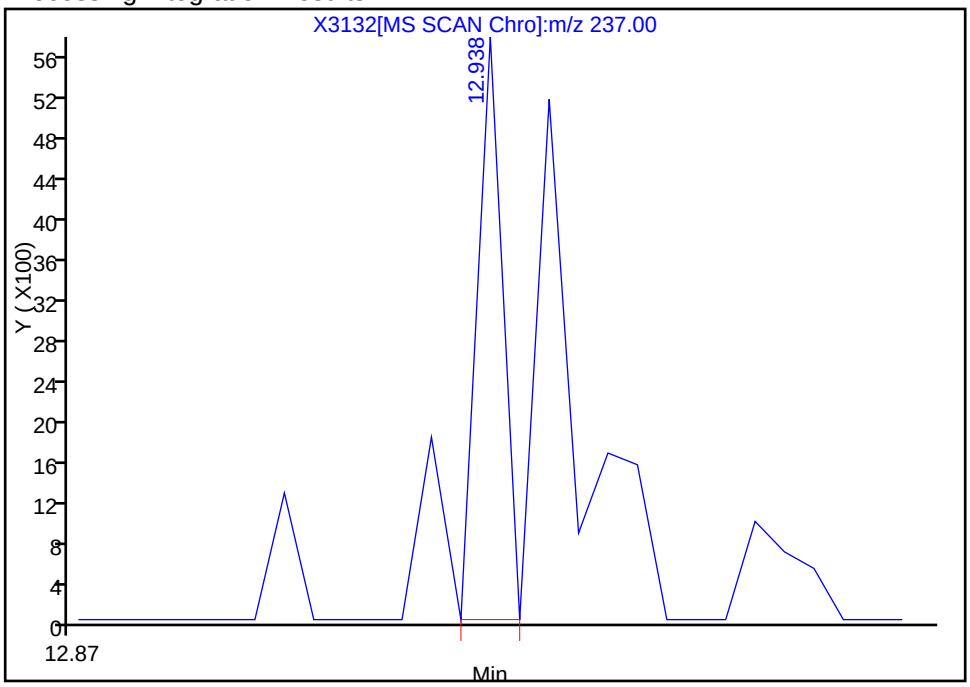
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

95 Pentachloronitrobenzene, Signal: 1, m/z: 237.0 Type: quant, RT: 12.92

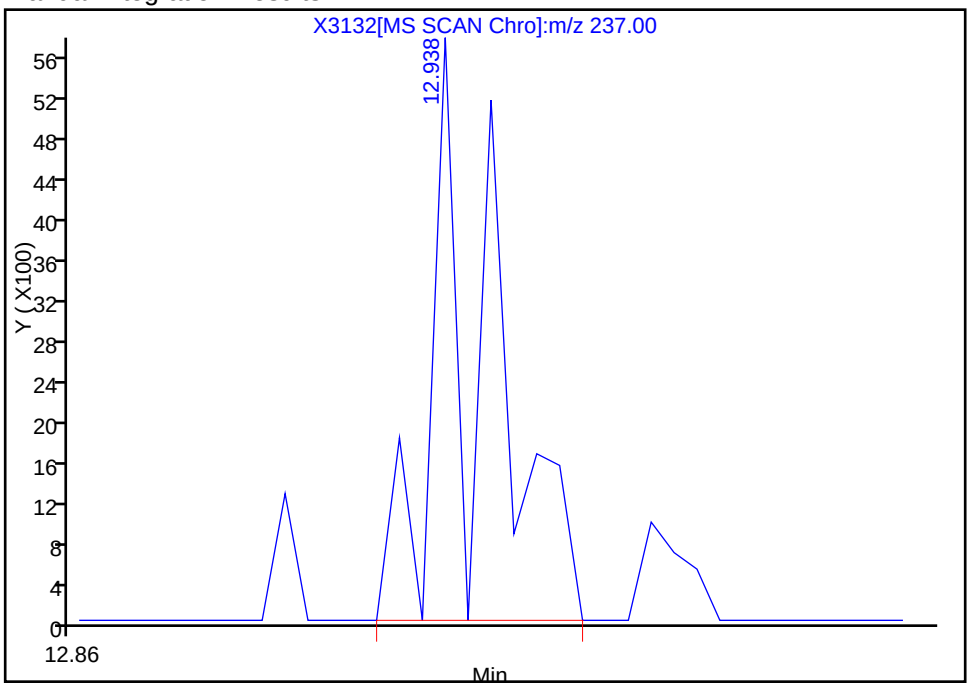
Processing Integration Results

RT: 12.94
Response: 1645
Amount: 0.500000



Manual Integration Results

RT: 12.94
Response: 4787
Amount: 0.604052



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:00 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

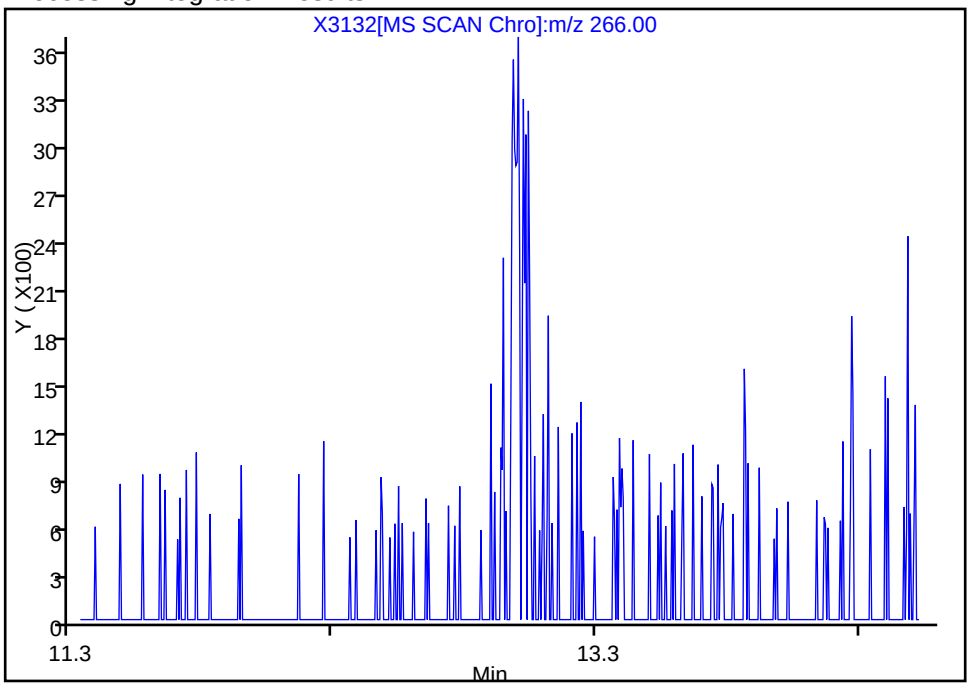
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

94 Pentachlorophenol, Signal: 1, m/z: 266.0 Type: quant, RT: 12.93

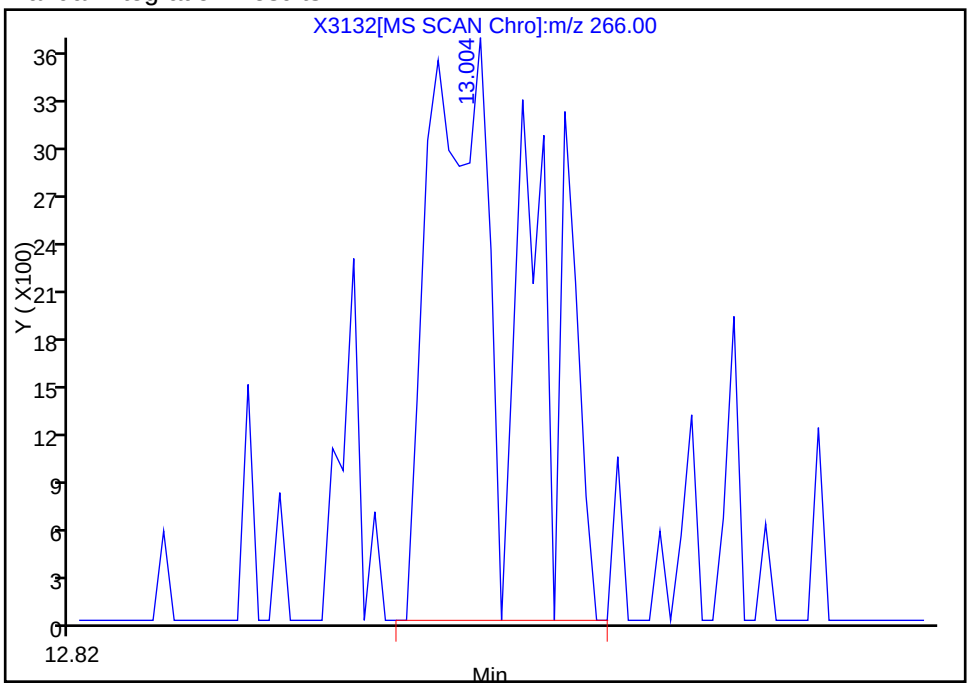
Processing Integration Results

Not Detected
Expected RT: 12.93



Manual Integration Results

RT: 13.00
Response: 11106
Amount: 1.487602



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

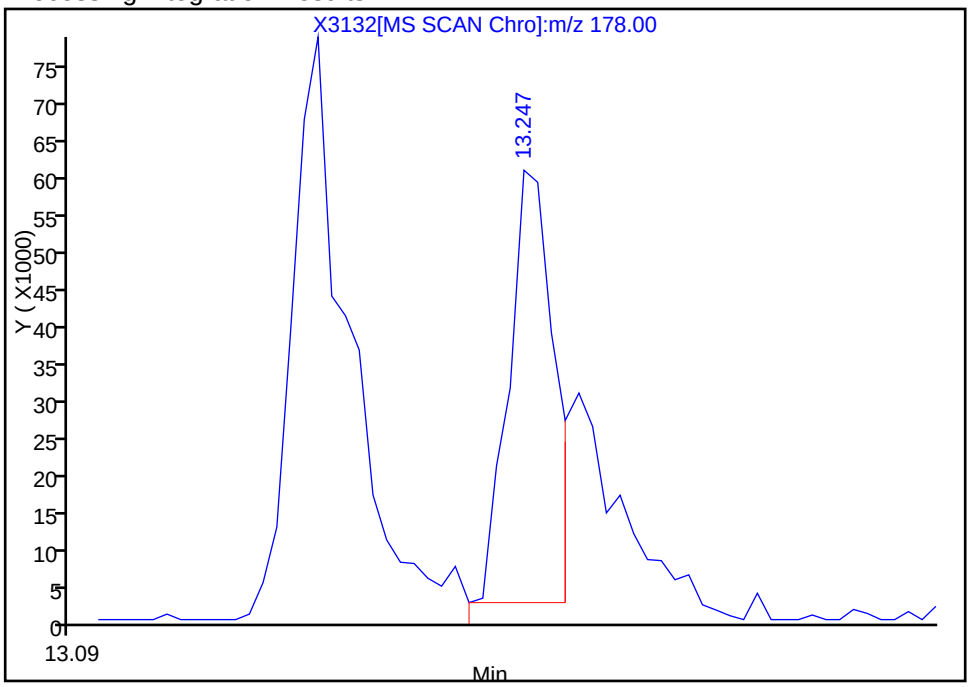
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

97 Phenanthrene, Signal: 1, m/z: 178.0 Type: quant, RT: 13.16

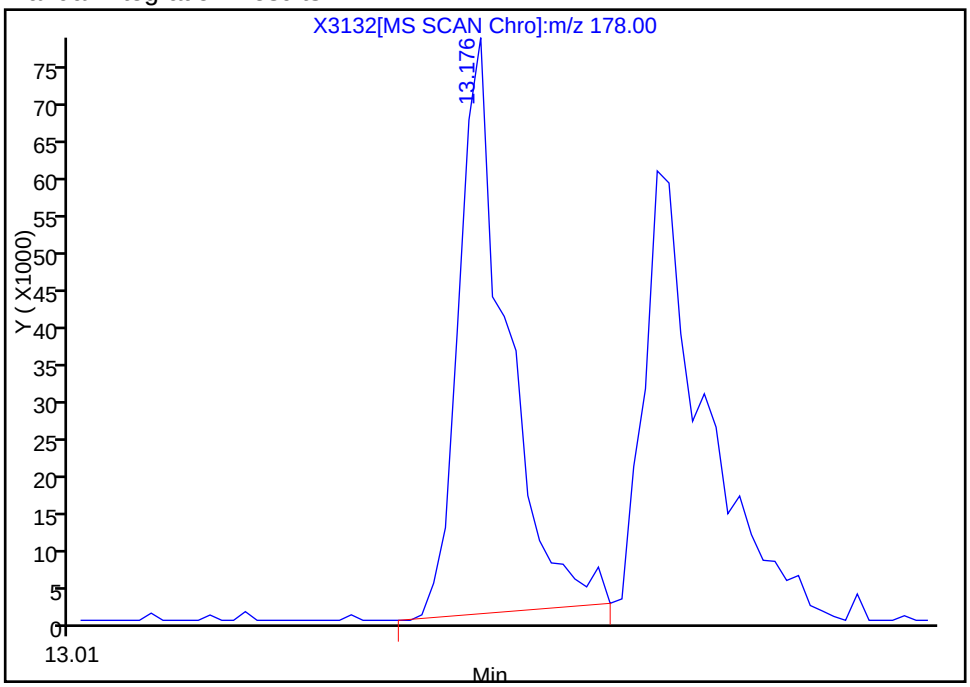
Processing Integration Results

RT: 13.25
Response: 63836
Amount: 0.396592



Manual Integration Results

RT: 13.18
Response: 103962
Amount: 0.511947



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

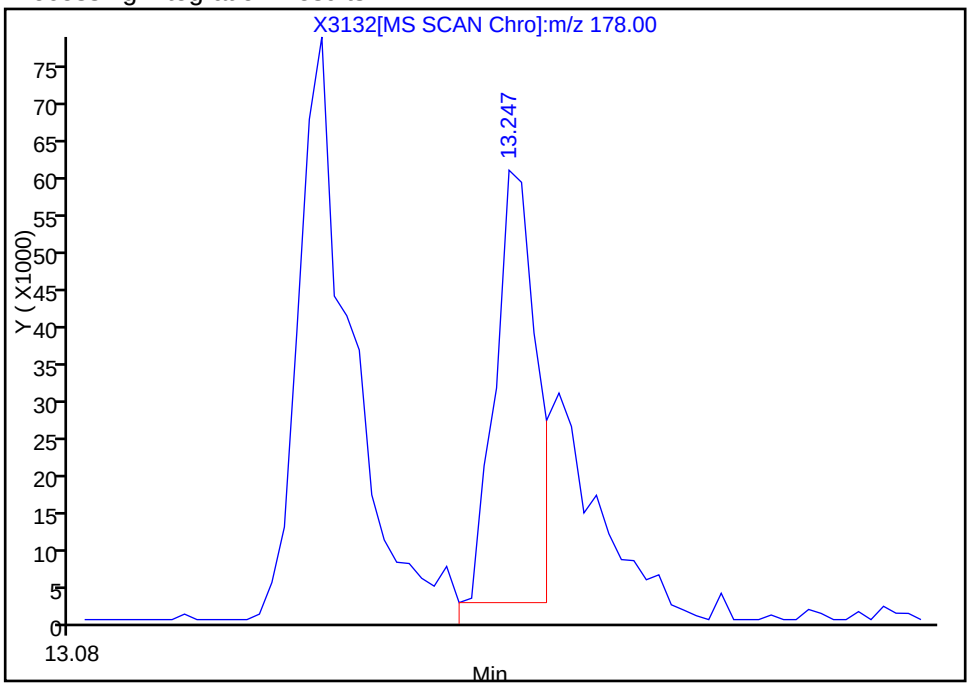
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

98 Anthracene, Signal: 1, m/z: 178.0 Type: quant, RT: 13.22

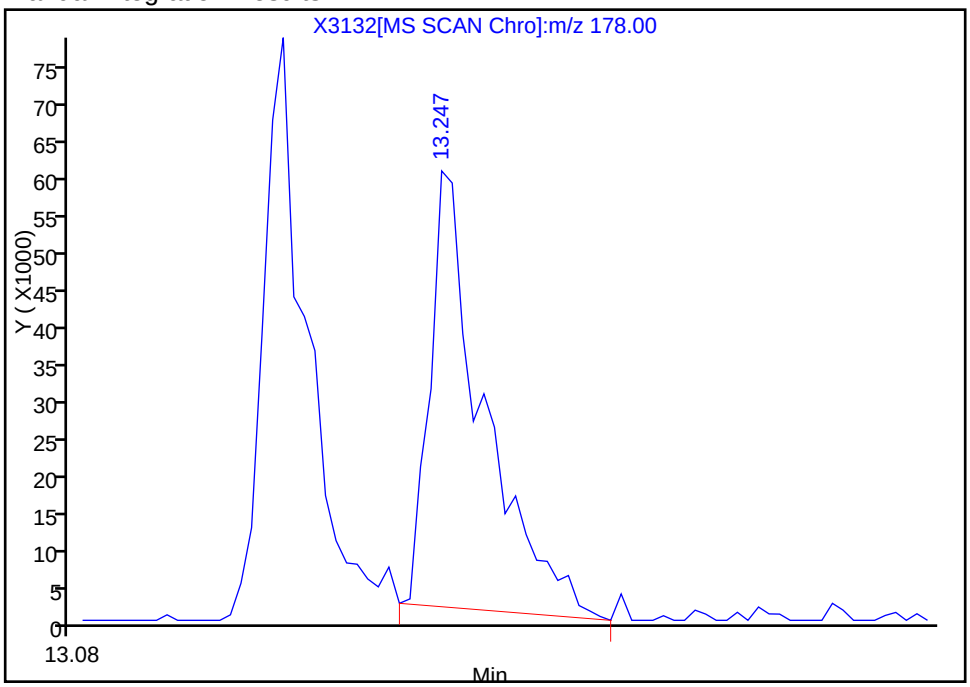
Processing Integration Results

RT: 13.25
Response: 63836
Amount: 0.357667



Manual Integration Results

RT: 13.25
Response: 99410
Amount: 0.480635



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:00 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

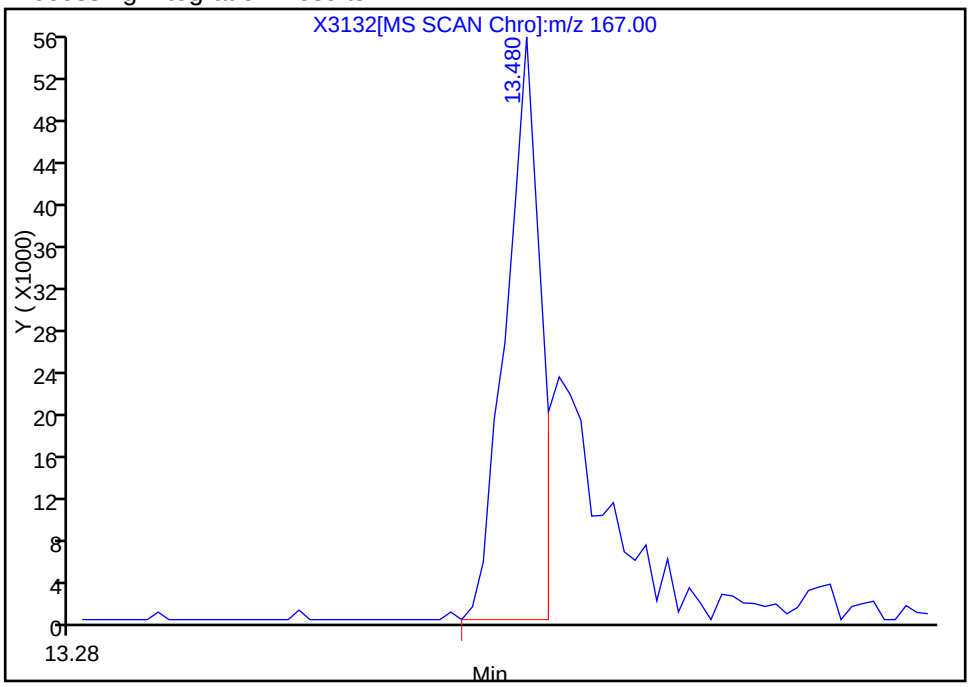
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

99 Carbazole, Signal: 1, m/z: 167.0 Type: quant, RT: 13.43

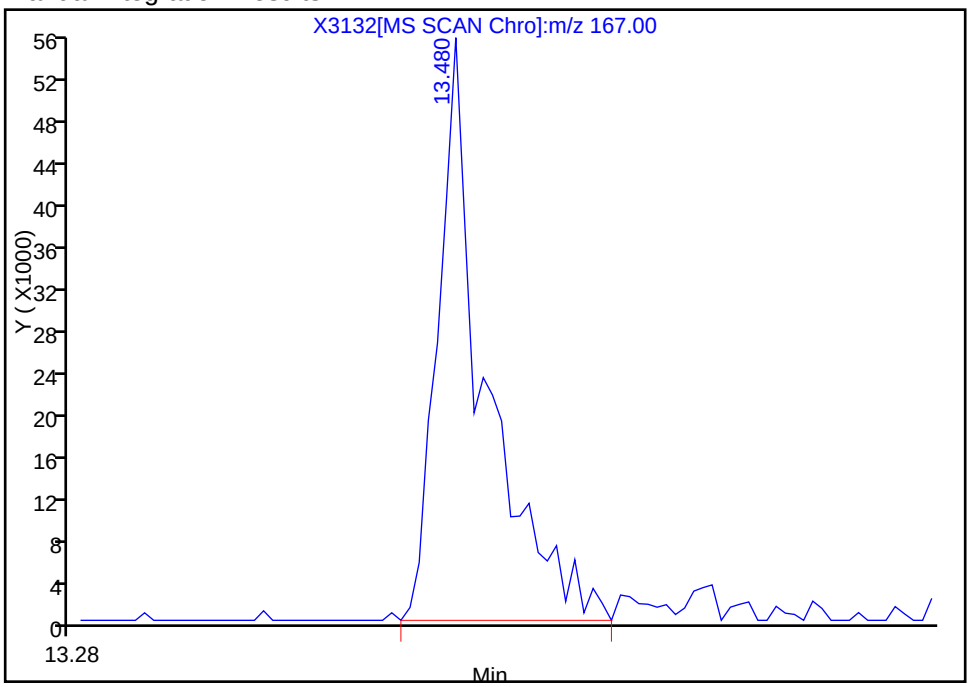
Processing Integration Results

RT: 13.48
Response: 58162
Amount: 0.500000



Manual Integration Results

RT: 13.48
Response: 94048
Amount: 0.490463



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:00 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

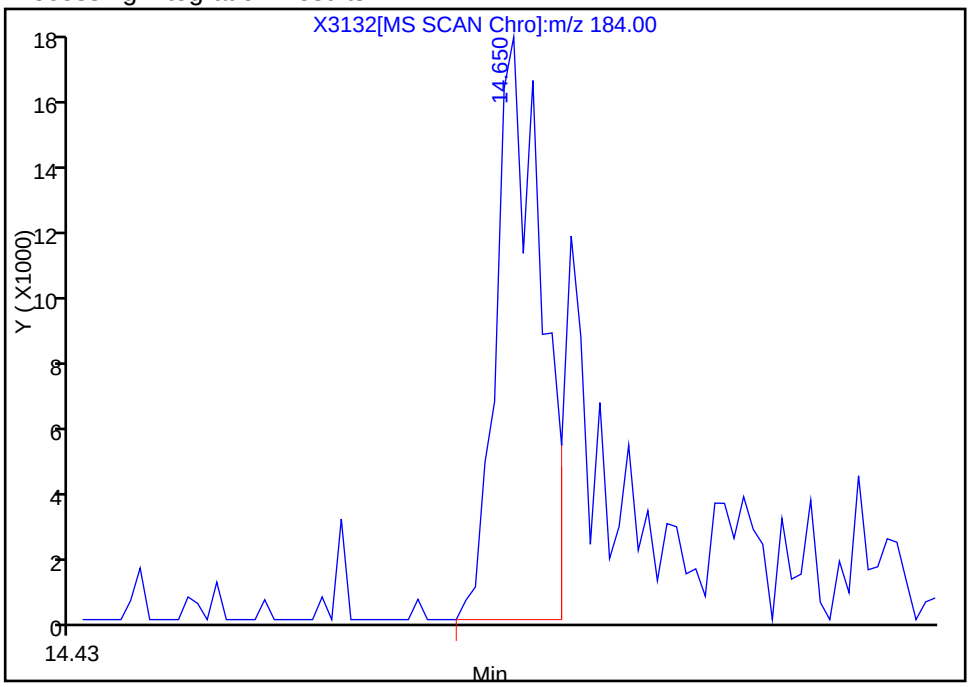
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

105 Benzidine, Signal: 1, m/z: 184.0 Type: quant, RT: 14.60

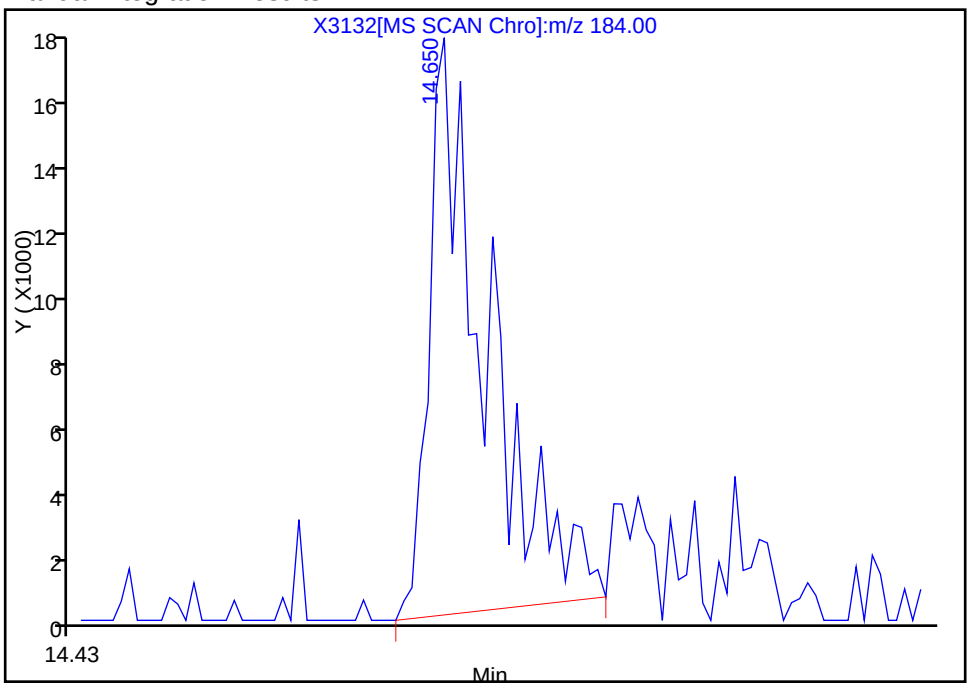
Processing Integration Results

RT: 14.65
Response: 28094
Amount: 0.500000



Manual Integration Results

RT: 14.65
Response: 41270
Amount: 0.455576



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:00 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

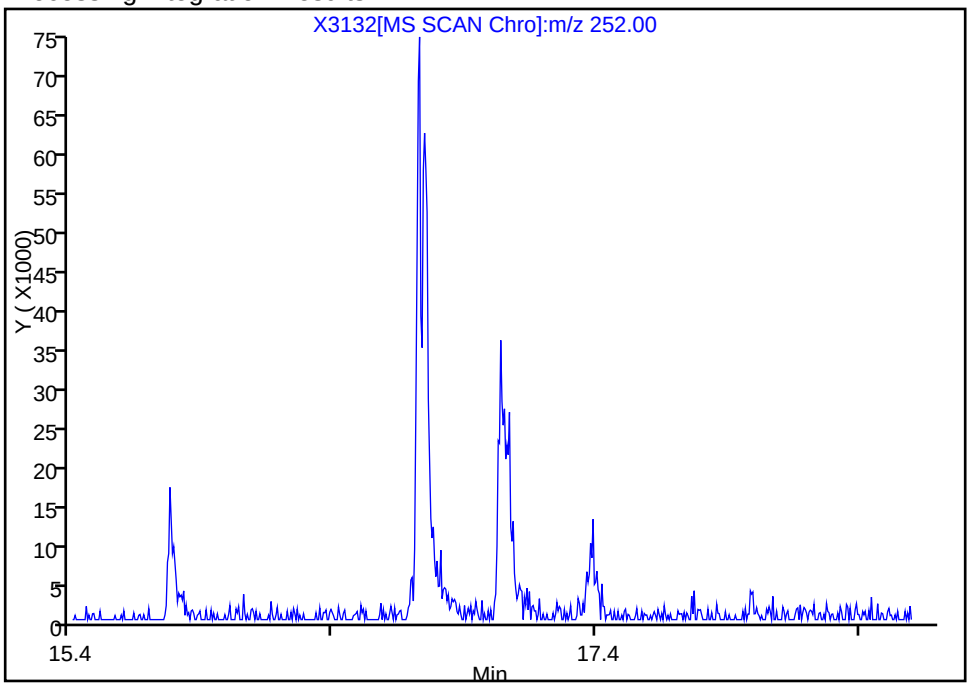
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

116 Benzo[a]pyrene, Signal: 1, m/z: 252.0 Type: quant, RT: 17.00

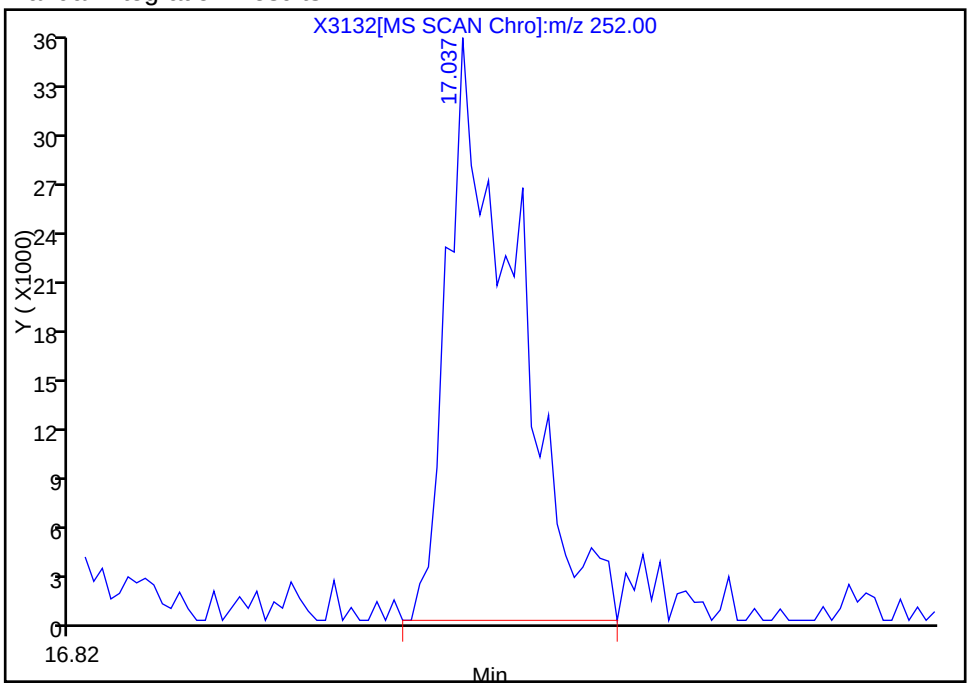
Processing Integration Results

Not Detected
Expected RT: 17.00



Manual Integration Results

RT: 17.04
Response: 93850
Amount: 0.542592



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:00 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

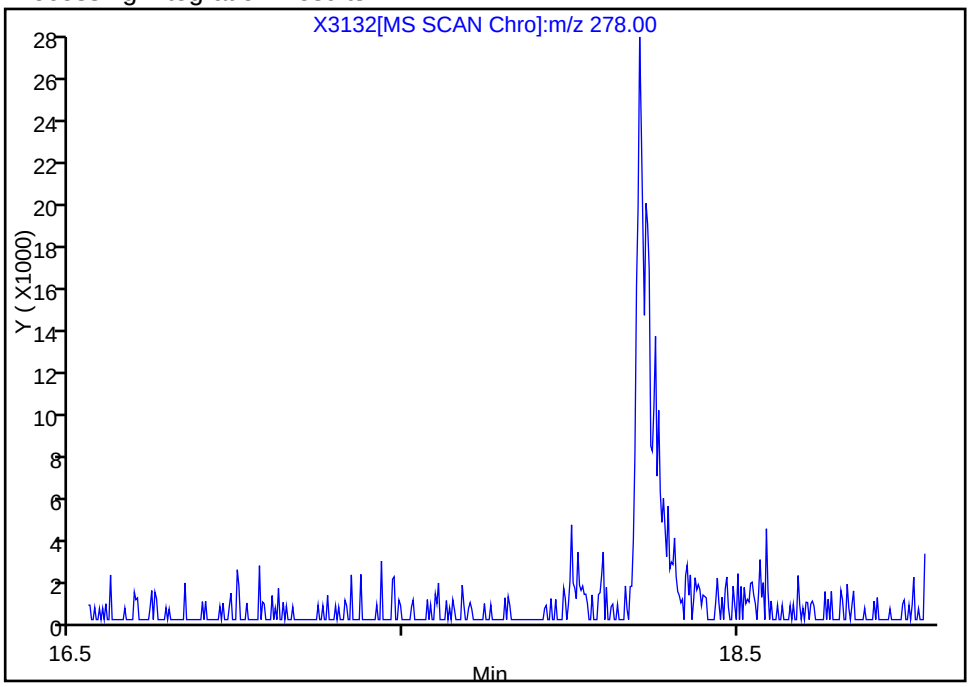
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

118 Dibenz(a,h)anthracene, Signal: 1, m/z: 278.0 Type: quant, RT: 18.15

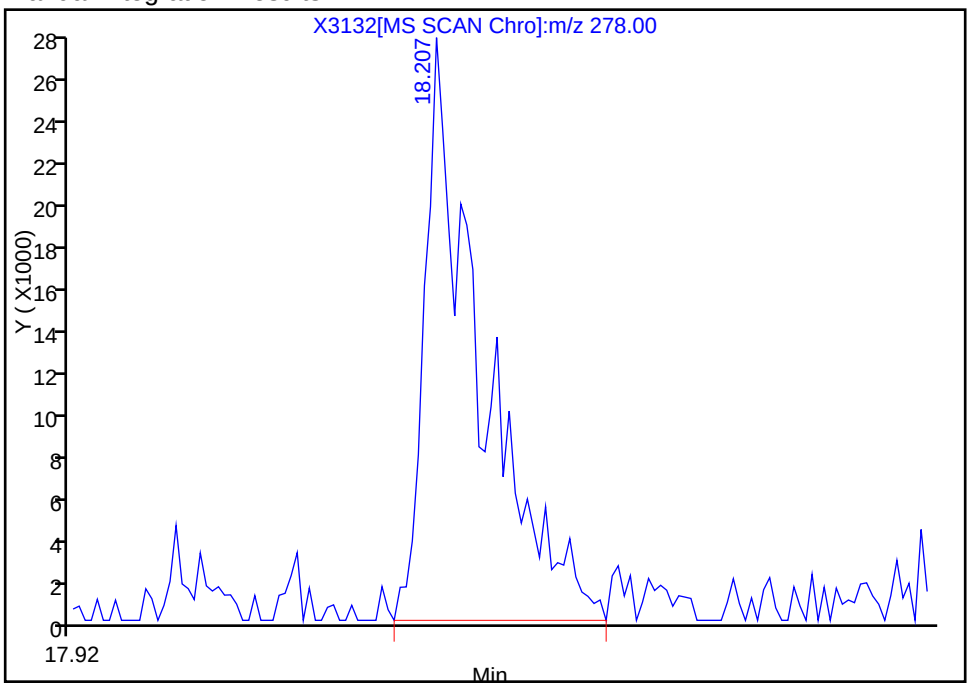
Processing Integration Results

Not Detected
Expected RT: 18.15



Manual Integration Results

RT: 18.21
Response: 83623
Amount: 0.533738



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:00 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

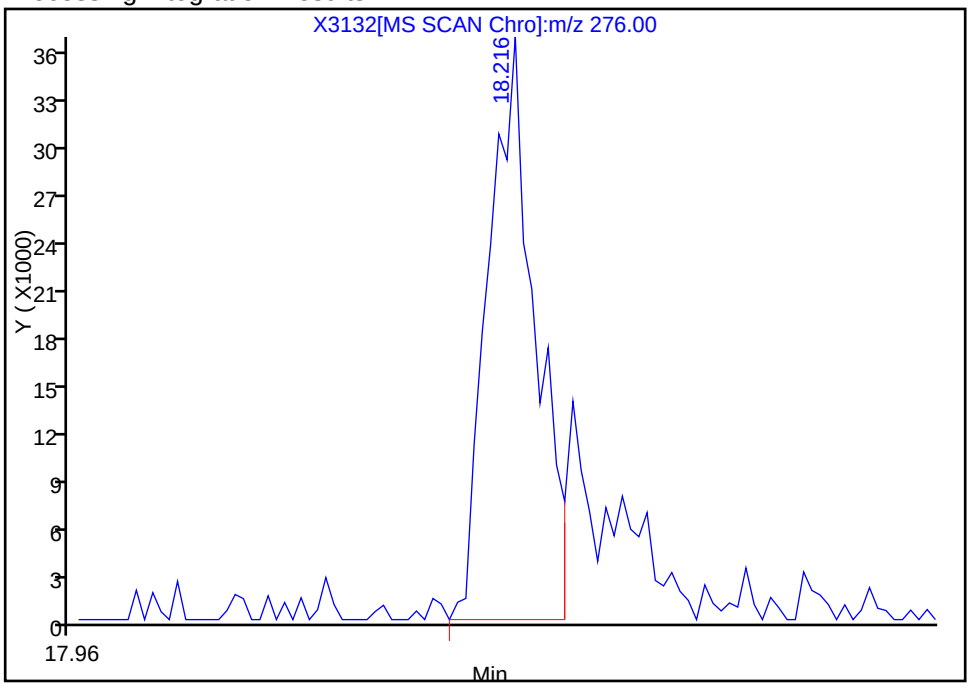
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

117 Indeno[1,2,3-cd]pyrene, Signal: 1, m/z: 276.0 Type: quant, RT: 18.15

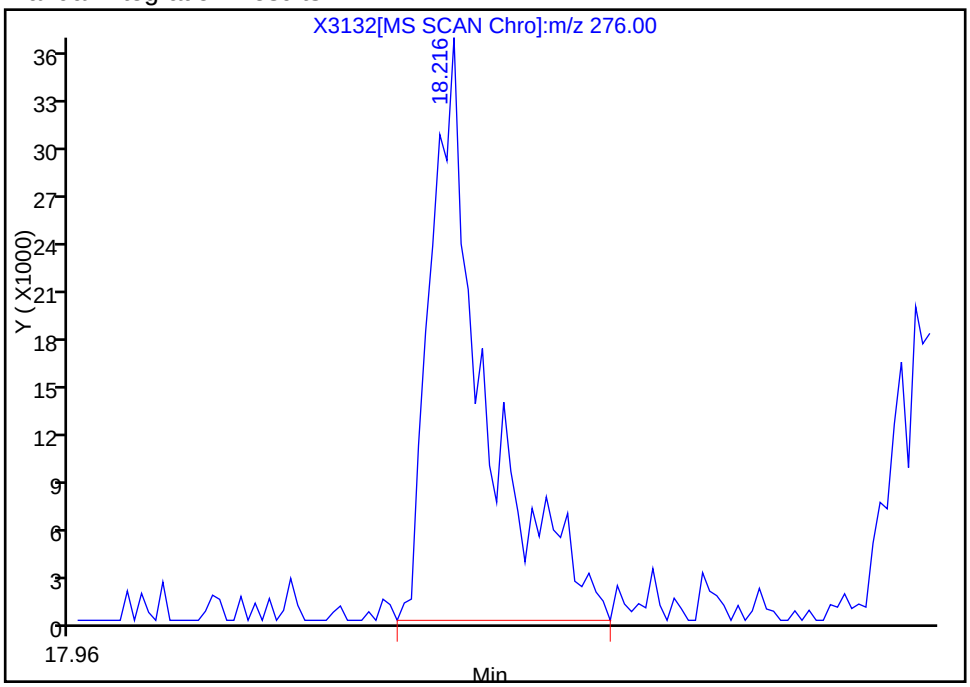
Processing Integration Results

RT: 18.22
Response: 70158
Amount: 0.500000



Manual Integration Results

RT: 18.22
Response: 93718
Amount: 0.507681



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:00 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

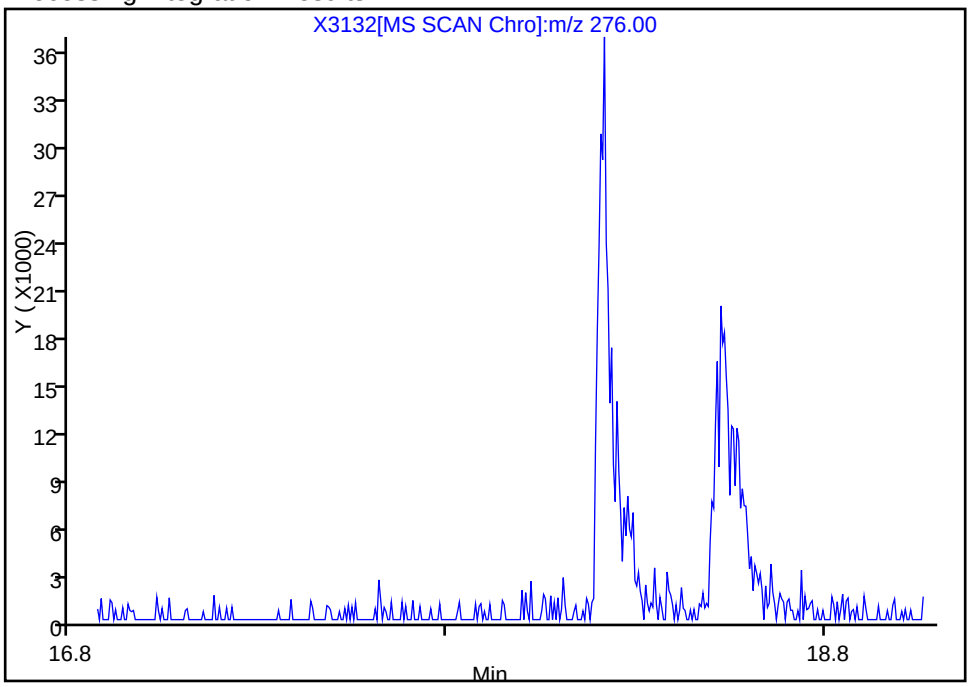
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3132.D		
Injection Date:	18-Dec-2012 11:45:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	3
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

119 Benzo[g,h,i]perylene, Signal: 1, m/z: 276.0 Type: quant, RT: 18.47

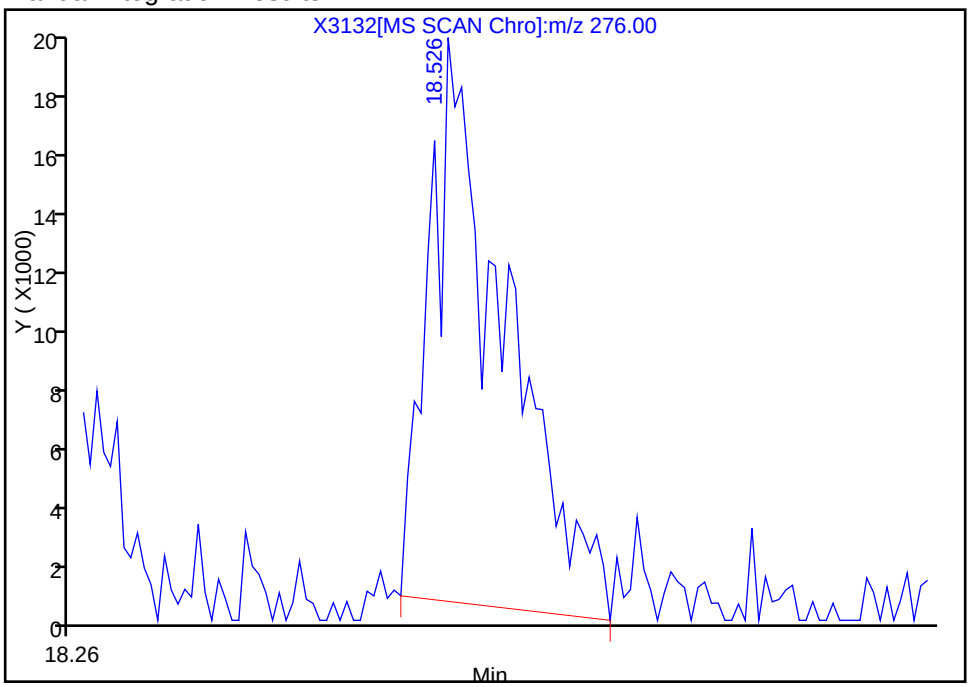
Processing Integration Results

Not Detected
Expected RT: 18.47



Manual Integration Results

RT: 18.53
Response: 71847
Amount: 0.466418



Reviewer: mckernar, 18-Dec-2012 13:05:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3133.D		
Lims ID:	IC - 1.0	Client ID:	
Inject. Date:	18-Dec-2012 12:11:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	480-0017654-004		
Misc. Info.:			
Operator:	ANM	Instrument ID:	HP5973X
Injection Vol:	1.0 ul	ALS Bottle#:	5
Lims Batch ID:	96347	Lims Sample ID:	4
Sublist:	chrom-X-8270LL*sub20		
Detector:	MS SCAN		

Method:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X-8270LL.m		
Last Update:	18-Dec-2012 16:43:02	Calib Date:	18-Dec-2012 14:44:30
Quant Method:	Internal Standard	Quant By:	Continuing Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3139.D		
Limit Group:	MB - 8270RCP_MCP ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm
Process Host:	XAWRK017		

First Level Reviewer: mckernar Date: 18-Dec-2012 16:43:02

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.580	6.594	-0.014	84	235486	5.00	
* 2 Naphthalene-d8	136	8.467	8.486	-0.019	98	842989	5.00	
* 3 Acenaphthene-d10	164	11.112	11.116	-0.004	88	524288	5.00	
* 4 Phenanthrene-d10	188	13.128	13.128	0.0	96	956639	5.00	
* 5 Chrysene-d12	240	15.767	15.767	0.0	97	825243	5.00	
* 6 Perylene-d12	264	17.047	17.051	-0.004	95	830996	5.00	
$ 7 2-Fluorophenol	112	4.687	4.701	-0.014	0	51938	0.9719	M
$ 8 Phenol-d5	99	6.118	6.118	0.0	78	67367	1.04	M
$ 9 Nitrobenzene-d5	82	7.416	7.435	-0.019	64	57504	0.9098	
$ 10 2-Fluorobiphenyl	172	10.127	10.127	0.0	86	131707	1.00	
$ 11 2,4,6-Tribromophenol	330	12.300	12.291	0.009	0	15302	0.8695	M
$ 12 p-Terphenyl-d14	244	14.807	14.802	0.005	90	141897	0.8918	
18 1,4-Dioxane	88	2.461	2.466	-0.005	51	25494	0.9192	M
19 N-Nitrosodimethylamine	42	2.818	2.813	0.005	56	41753	0.9705	M
20 Pyridine	52	2.908	2.908	0.0	1	30554	0.6994	M
21 Benzaldehyde	77	5.952	5.961	-0.009	80	47929	1.04	M
23 Aniline	93	6.113	6.128	-0.015	87	77634	0.9004	
22 Phenol	94	6.142	6.142	0.0	0	63116	0.8799	M
24 Bis(2-chloroethyl)ether	93	6.213	6.223	-0.010	86	53034	0.9391	
25 2-Chlorophenol	128	6.289	6.294	-0.005	81	55968	0.9178	M
26 1,3-Dichlorobenzene	146	6.494	6.503	-0.009	90	67570	0.8934	
27 1,4-Dichlorobenzene	146	6.603	6.622	-0.019	60	71304	0.9438	
29 1,2-Dichlorobenzene	146	6.822	6.841	-0.019	79	62406	0.8859	
28 Benzyl alcohol	108	6.889	6.846	0.043	20	14091	0.7958	M
32 2,2'-oxybis[1-chloropropane]	45	7.017	7.022	-0.005	67	88085	0.9595	M
31 2-Methylphenol	108	7.022	7.031	-0.009	40	45407	0.8871	M
33 Acetophenone	105	7.207	7.212	-0.005	76	79952	0.9155	M
34 N-Nitrosodi-n-propylamine	70	7.207	7.217	-0.010	77	35043	0.7989	
36 4-Methylphenol	108	7.312	7.288	0.024	0	57517	1.11	M

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
37 Hexachloroethane	117	7.307	7.331	-0.024	79	26747	0.8385	
38 Nitrobenzene	77	7.455	7.464	-0.009	75	55225	0.8417	
40 Isophorone	82	7.806	7.821	-0.015	71	90545	0.8391	
41 2-Nitrophenol	139	7.930	7.939	-0.009	56	27016	0.9049	M
43 2,4-Dimethylphenol	107	8.063	8.058	0.005	0	56555	1.00	M
45 Bis(2-chloroethoxy)methane	93	8.182	8.177	0.005	75	68136	1.07	M
44 Benzoic acid	105		8.268					
47 2,4-Dichlorophenol	162	8.382	8.358	0.024	0	41301	0.9012	M
48 1,2,4-Trichlorobenzene	180	8.396	8.410	-0.014	87	52870	0.9385	
49 Naphthalene	128	8.501	8.520	-0.019	80	198868	1.06	
51 4-Chloroaniline	127	8.672	8.662	0.010	71	48018	0.7107	
52 Hexachlorobutadiene	225	8.696	8.710	-0.014	71	29942	0.9727	
54 Caprolactam	113	9.276	9.209	0.067	42	13444	0.8060	M
55 4-Chloro-3-methylphenol	107	9.518	9.466	0.052	1	41948	0.8285	M
56 2-Methylnaphthalene	142	9.561	9.566	-0.005	69	135097	1.03	
57 1-Methylnaphthalene	142	9.699	9.709	-0.010	86	129919	1.08	
58 Hexachlorocyclopentadiene	237	9.785	9.794	-0.009	8	6833	0.4089	
59 1,2,4,5-Tetrachlorobenzene	216	9.818	9.818	0.0	78	51072	1.04	
60 2,4,6-Trichlorophenol	196	10.070	10.037	0.033	49	27547	0.9099	M
61 2,4,5-Trichlorophenol	196	10.208	10.146	0.062	1	23950	0.8178	M
62 1,1'-Biphenyl	154	10.270	10.274	-0.004	92	147932	0.9759	
63 2-Chloronaphthalene	162	10.317	10.317	0.0	84	165356	0.9202	M
64 Phenyl ether	170	10.441	10.436	0.005	88	78549	0.9529	
65 2-Nitroaniline	65	10.546	10.512	0.034	55	24342	0.7010	M
66 1,4-Dinitrobenzene	75	10.779	10.755	0.024	36	23696	0	M
67 Dimethyl phthalate	163	10.783	10.779	0.004	84	131233	0.9673	
68 2,6-Dinitrotoluene	165	10.879	10.864	0.015	82	60374	0.9816	
69 Acenaphthylene	152	10.902	10.907	-0.005	81	189943	1.04	
70 3-Nitroaniline	138	11.216	11.159	0.057	1	21070	0.6898	M
71 Acenaphthene	153	11.164	11.169	-0.005	83	124892	0.9780	
72 2,4-Dinitrophenol	184	11.383	11.349	0.034	0	7990	0.8823	M
73 Dibenzofuran	168	11.444	11.440	0.004	96	158117	1.02	
74 2,4-Dinitrotoluene	165	11.516	11.492	0.024	1	40061	1.02	M
75 4-Nitrophenol	109	11.687	11.611	0.076	1	35867	1.37	M
76 2,3,4,6-Tetrachlorophenol	232	11.687	11.668	0.019	37	25922	1.10	M
78 Diethyl phthalate	149	11.830	11.825	0.005	89	157267	1.06	M
79 Fluorene	166	11.944	11.934	0.010	82	142510	1.00	
80 4-Chlorophenyl phenyl ether	204	11.963	11.953	0.010	77	67135	1.06	
81 4-Nitroaniline	138	12.120	12.067	0.053	43	28981	1.23	M
82 4,6-Dinitro-2-methylphenol	198	12.105	12.082	0.023	47	21166	1.87	M
84 Diphenylamine	169	12.134	12.124	0.010	95	224688	1.01	
83 N-Nitrosodiphenylamine	169	12.134	12.124	0.010	95	224688	1.01	
16 1,2-Diphenylhydrazine	77	12.177	12.167	0.010	96	109056	0.7584	
85 Azobenzene	77	12.177	12.167	0.010	97	109056	0.7600	
86 Benzophenone	105	12.196	12.191	0.005	94	116350	0.9332	
89 4-Bromophenyl phenyl ether	248	12.600	12.595	0.005	73	31913	0.8900	
91 Hexachlorobenzene	284	12.662	12.652	0.010	61	33846	0.9560	
92 Simazine	201	12.814	12.809	0.005	68	10972	0	
93 Atrazine	200	12.838	12.838	0.0	77	75813	1.92	
95 Pentachloronitrobenzene	237	12.928	12.923	0.005	8	11461	0.9091	
94 Pentachlorophenol	266	12.961	12.933	0.028	1	11624	1.49	
97 Phenanthrene	178	13.156	13.156	0.0	80	220154	1.03	

Report Date: 18-Dec-2012 16:43:03 Chrom Revision: 2.0 22-Oct-2012 16:30:48
Data File: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3133.D

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
98 Anthracene	178	13.223	13.218	0.005	90	217098	1.00	
99 Carbazole	167	13.442	13.427	0.015	96	190469	0.9459	M
101 Alachlor	160	13.565	13.565	0.0	82	36999	0	
102 Di-n-butyl phthalate	149	13.808	13.803	0.005	93	236333	1.01	
104 Fluoranthene	202	14.440	14.431	0.009	92	215639	1.02	
105 Benzidine	184	14.621	14.597	0.024	73	107316	1.18	M
106 Pyrene	202	14.659	14.654	0.005	97	228073	1.03	
107 Famphur	218	15.206	15.201	0.005	65	71908	0	
108 Butyl benzyl phthalate	149	15.244	15.244	0.0	86	114162	0.9336	
110 Bis(2-ethylhexyl) phthalate	149	15.739	15.734	0.005	94	160627	0.9542	
109 3,3'-Dichlorobenzidine	252	15.753	15.743	0.010	8	68680	0.9263	
111 Benzo[a]anthracene	228	15.763	15.753	0.010	57	161424	0.9080	
112 Chrysene	228	15.791	15.791	0.0	76	252184	1.25	
113 Di-n-octyl phthalate	149	16.276	16.271	0.005	96	281150	1.06	
114 Benzo[b]fluoranthene	252	16.704	16.695	0.010	77	174956	0.9066	
115 Benzo[k]fluoranthene	252	16.723	16.718	0.005	77	177253	0.8914	
116 Benzo[a]pyrene	252	17.008	17.004	0.004	0	174699	0.9362	M
118 Dibenz(a,h)anthracene	278	18.140	18.150	-0.010	0	129231	0.7645	M
117 Indeno[1,2,3-cd]pyrene	276	18.136	18.150	-0.014	91	167625	0.8416	M
119 Benzo[g,h,i]perylene	276	18.459	18.468	-0.009	72	168957	1.02	M
S 121 3-Methylphenol	1		0.000					

QC Flag Legend

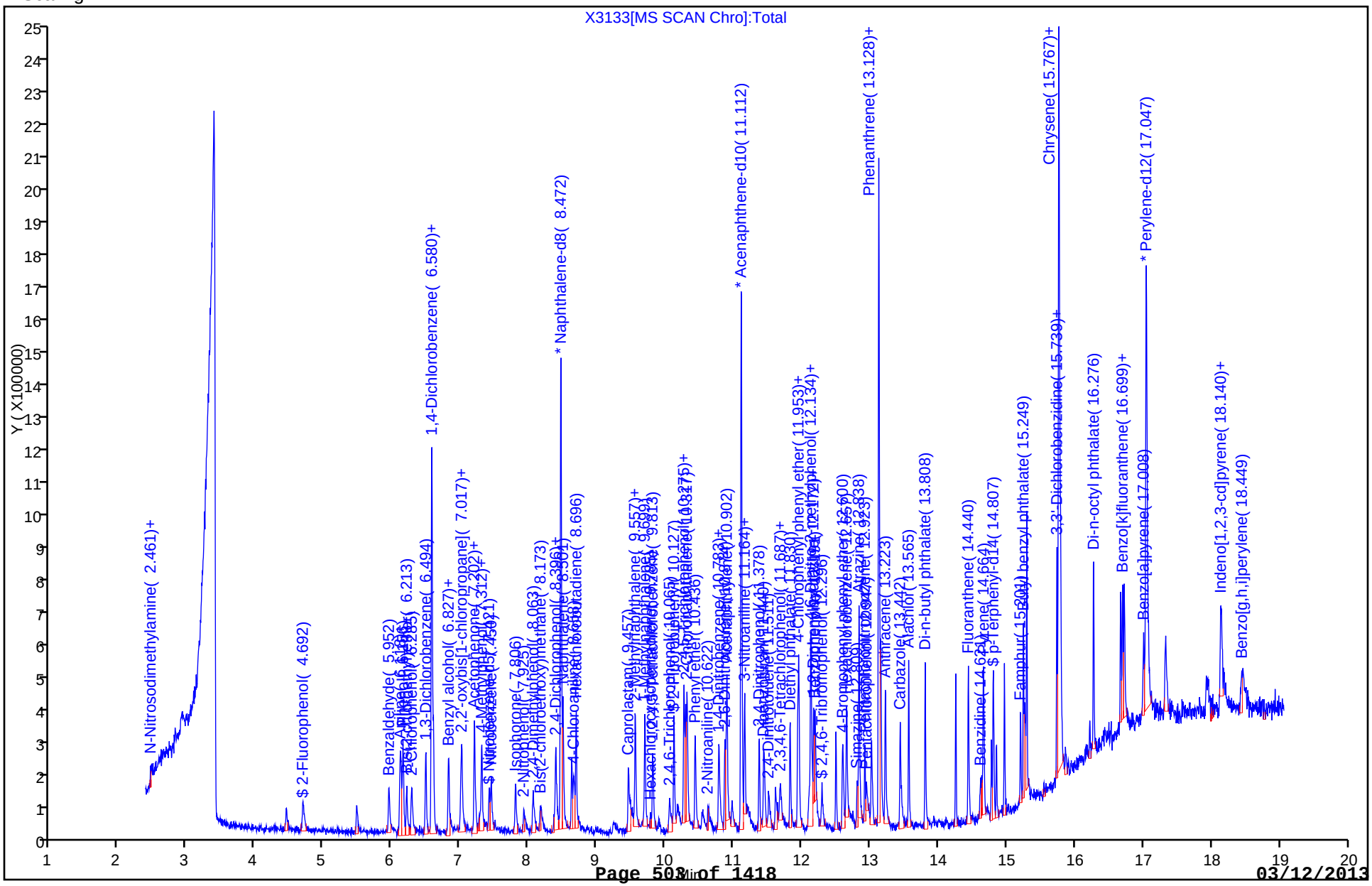
Review Flags
M - Manually Integrated

Report Date: 18-Dec-2012 16:43:03 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3133.D		
Injection Date:	18-Dec-2012 12:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Y Scaling:



Manual Integration/User Assign Peak Report

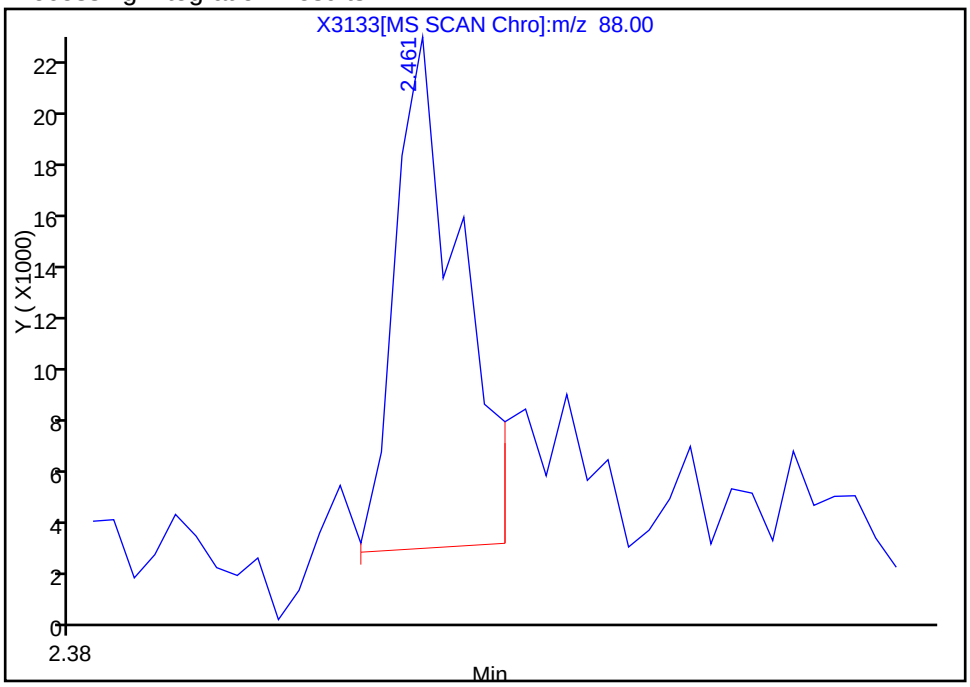
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3133.D		
Injection Date:	18-Dec-2012 12:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

18 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 2.47

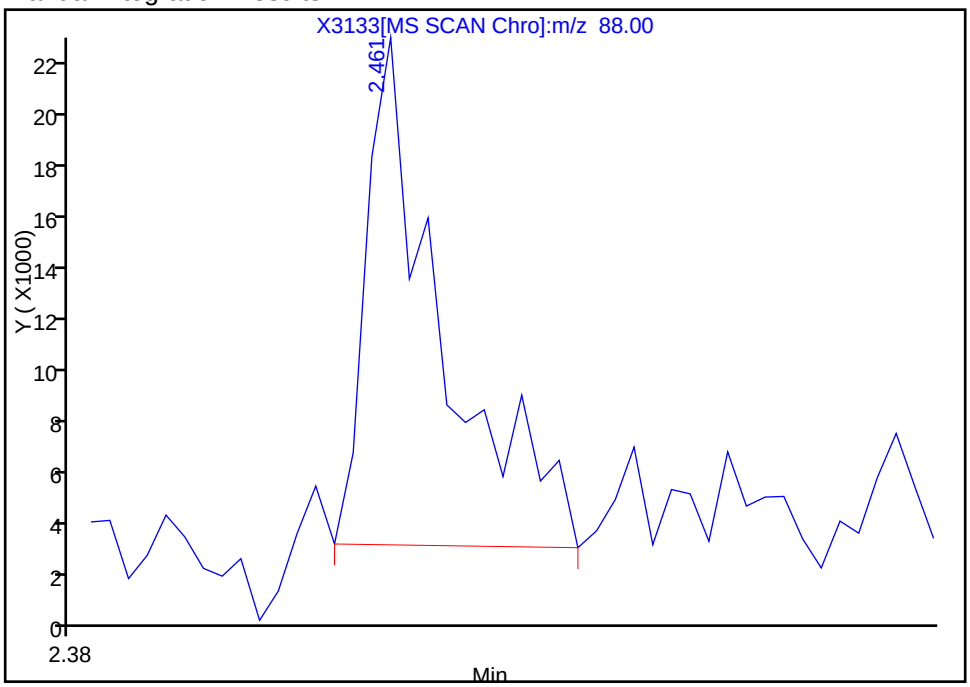
Processing Integration Results

RT: 2.46
Response: 20259
Amount: 0.528604



Manual Integration Results

RT: 2.46
Response: 25494
Amount: 0.919214



Reviewer: mckernar, 18-Dec-2012 13:05:29
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

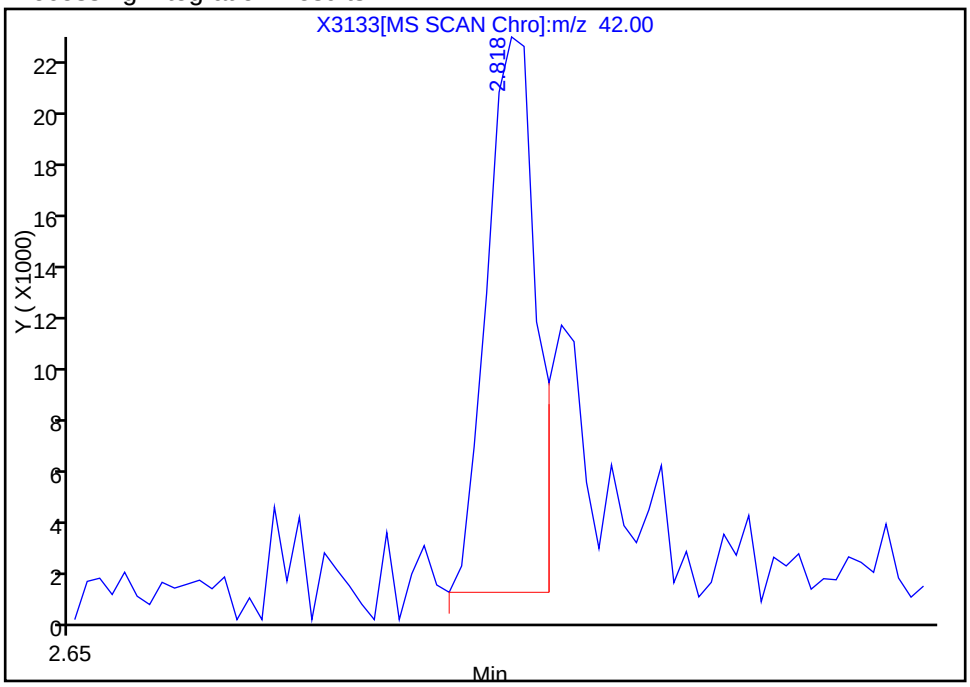
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3133.D		
Injection Date:	18-Dec-2012 12:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

19 N-Nitrosodimethylamine, Signal: 1, m/z: 42.0 Type: quant, RT: 2.81

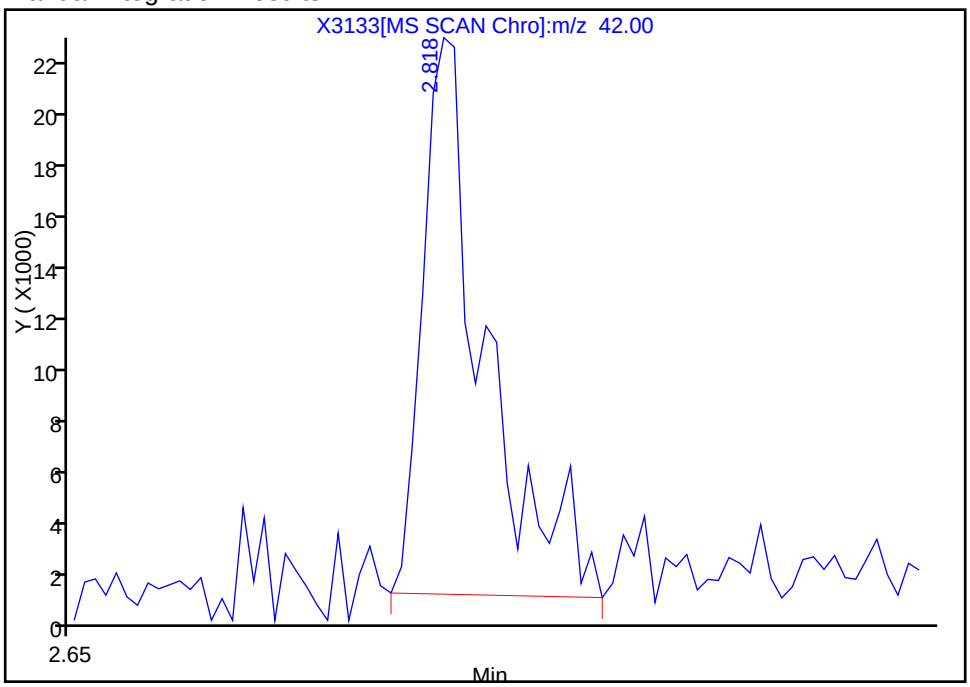
Processing Integration Results

RT: 2.82
Response: 28260
Amount: 0.763362



Manual Integration Results

RT: 2.82
Response: 41753
Amount: 0.970488



Reviewer: mckernar, 18-Dec-2012 13:05:29
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:03 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

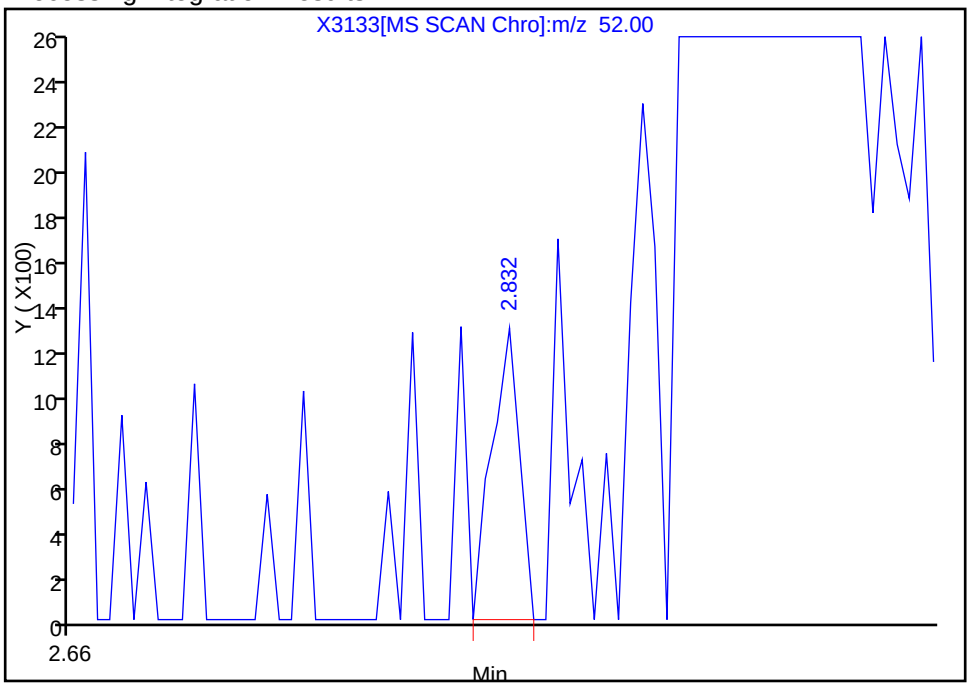
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3133.D		
Injection Date:	18-Dec-2012 12:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

20 Pyridine, Signal: 1, m/z: 52.0 Type: quant, RT: 2.91

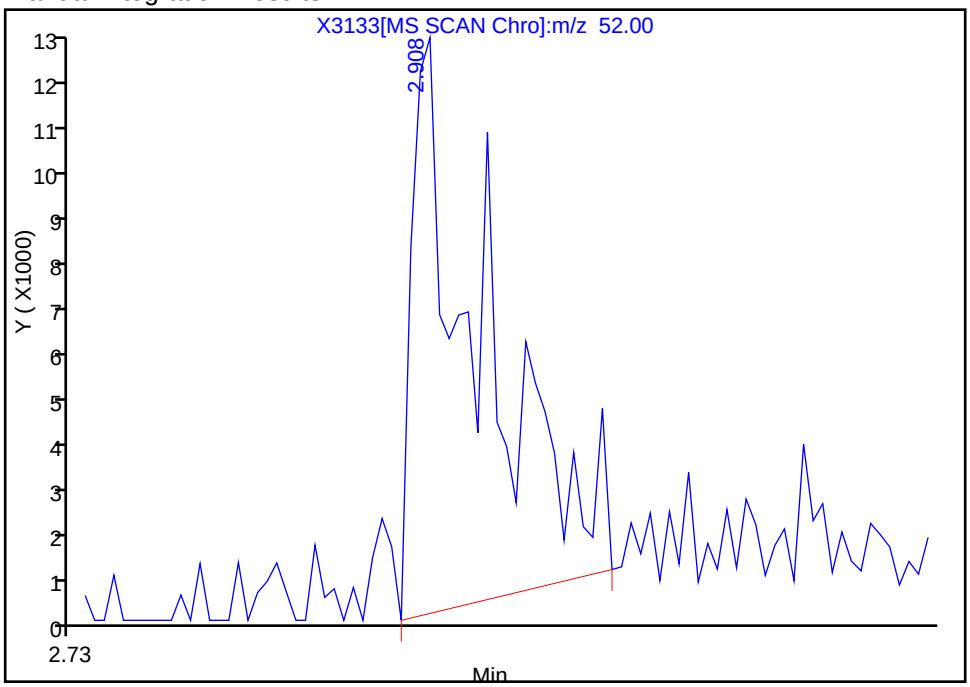
Processing Integration Results

RT: 2.83
Response: 959
Amount: 0.042936



Manual Integration Results

RT: 2.91
Response: 30554
Amount: 0.699412



Reviewer: mckernar, 18-Dec-2012 13:05:29
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TestAmerica Buffalo

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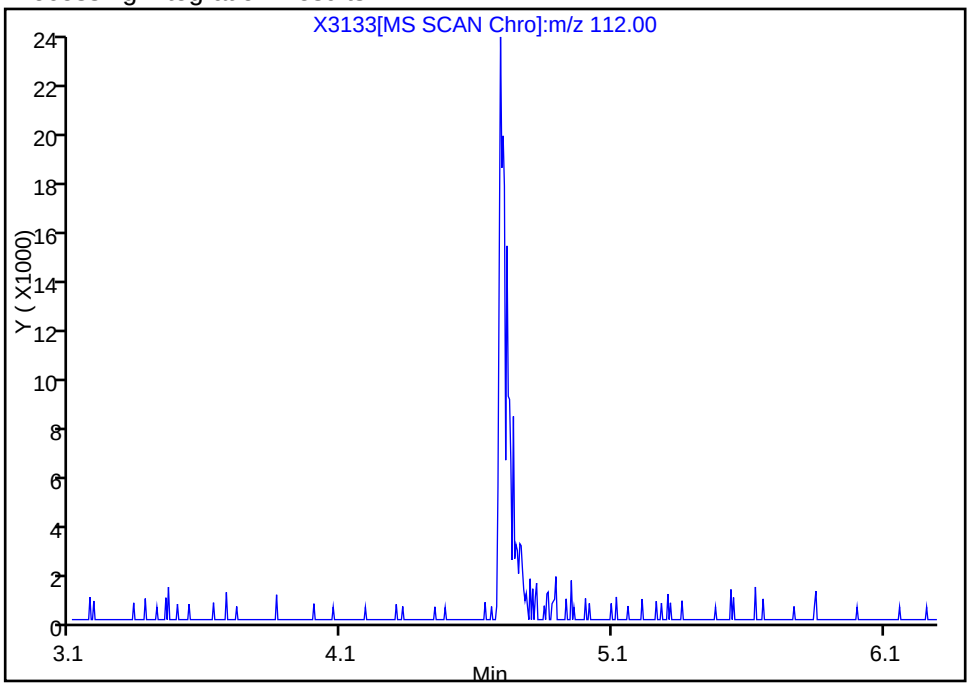
Injection Date:	18-Dec-2012 12:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

$ 7 2-Fluorophenol, Signal: 1, m/z: 112.0 Type: quant, RT: 4.70

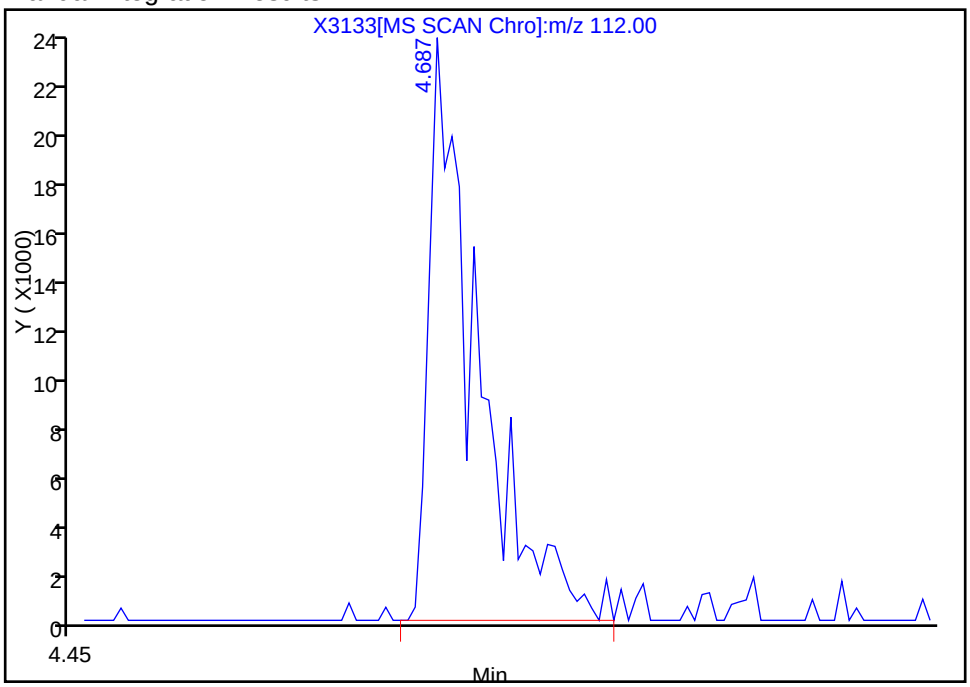
Processing Integration Results

Not Detected
Expected RT: 4.70



Manual Integration Results

RT: 4.69
Response: 51938
Amount: 0.971909



Reviewer: mckernar, 18-Dec-2012 13:05:29
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Manual Integration/User Assign Peak Report

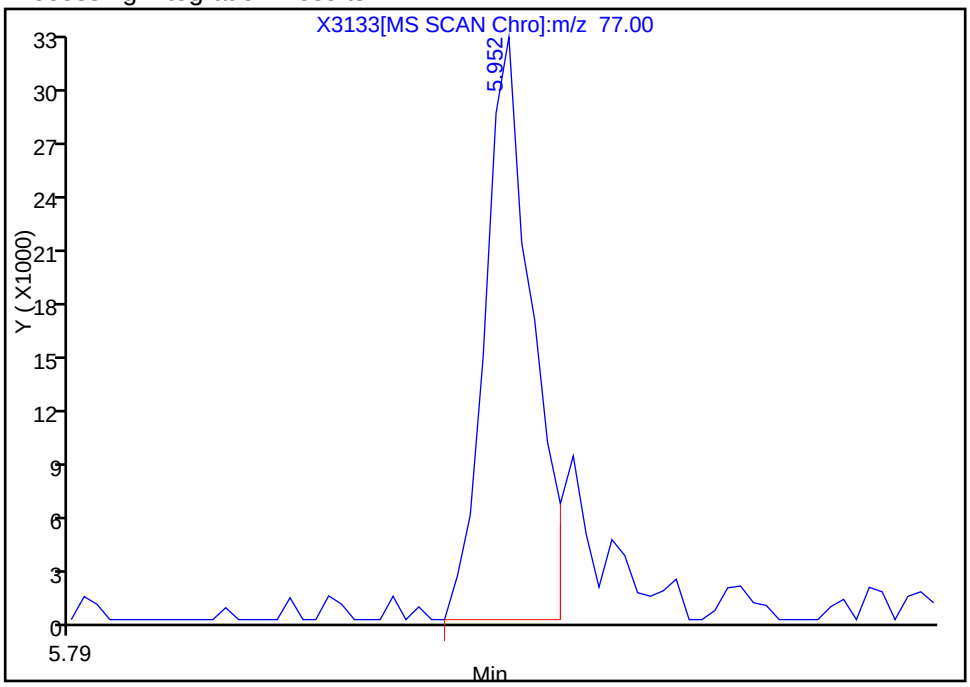
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3133.D		
Injection Date:	18-Dec-2012 12:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

21 Benzaldehyde, Signal: 1, m/z: 77.0 Type: quant, RT: 5.96

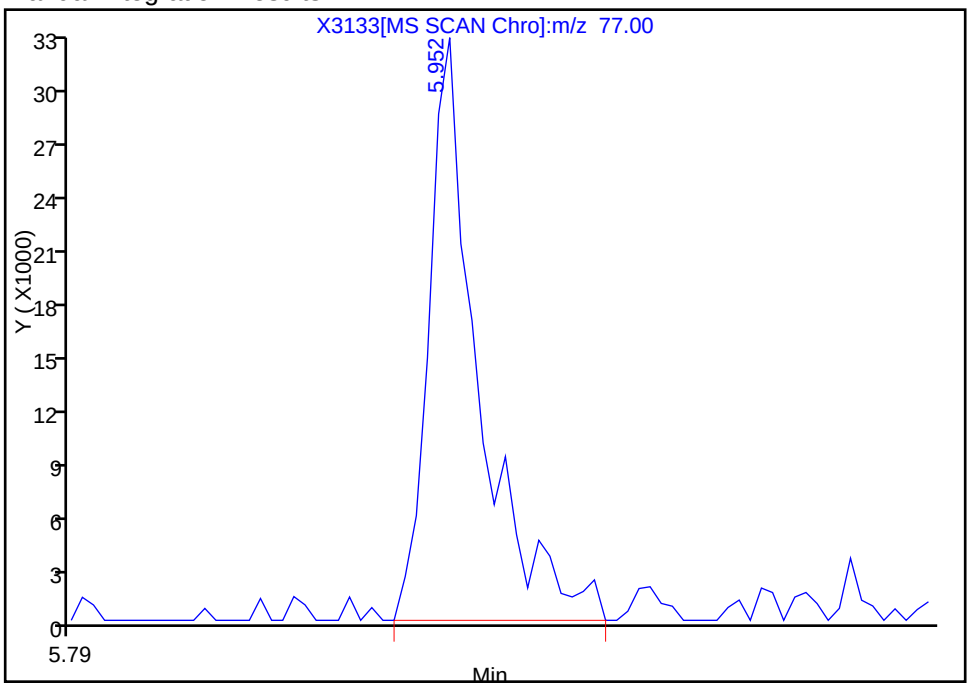
Processing Integration Results

RT: 5.95
Response: 39252
Amount: 0.991743



Manual Integration Results

RT: 5.95
Response: 47929
Amount: 1.038399



Reviewer: mckernar, 18-Dec-2012 13:05:29
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Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:03 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

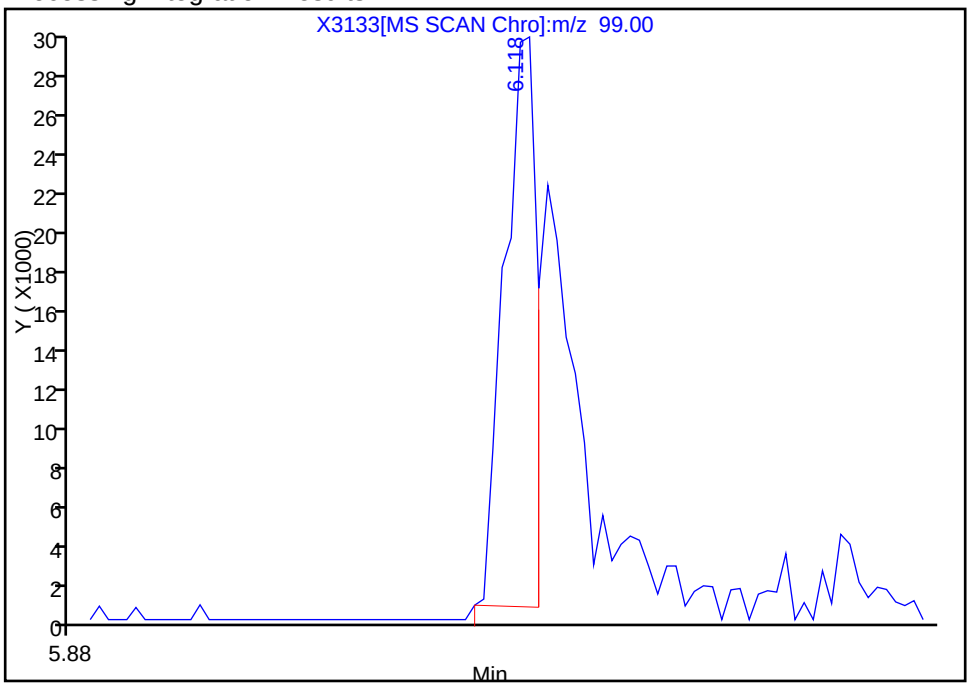
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3133.D		
Injection Date:	18-Dec-2012 12:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

$ 8 Phenol-d5, Signal: 1, m/z: 99.0 Type: quant, RT: 6.12

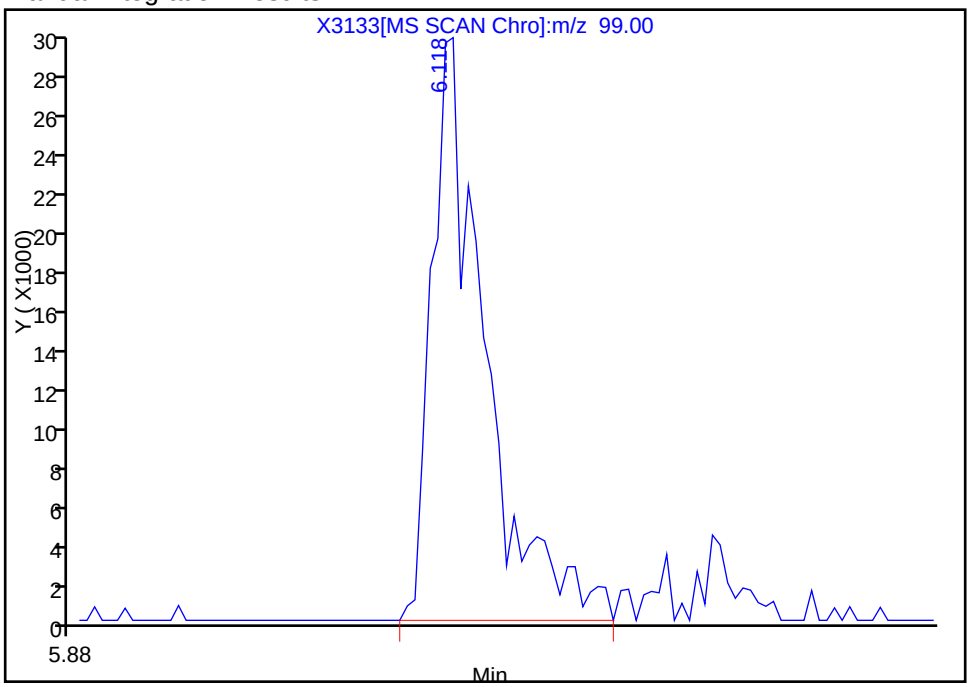
Processing Integration Results

RT: 6.12
Response: 33295
Amount: 0.906604



Manual Integration Results

RT: 6.12
Response: 67367
Amount: 1.035781



Reviewer: mckernar, 18-Dec-2012 13:05:29
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Manual Integration/User Assign Peak Report

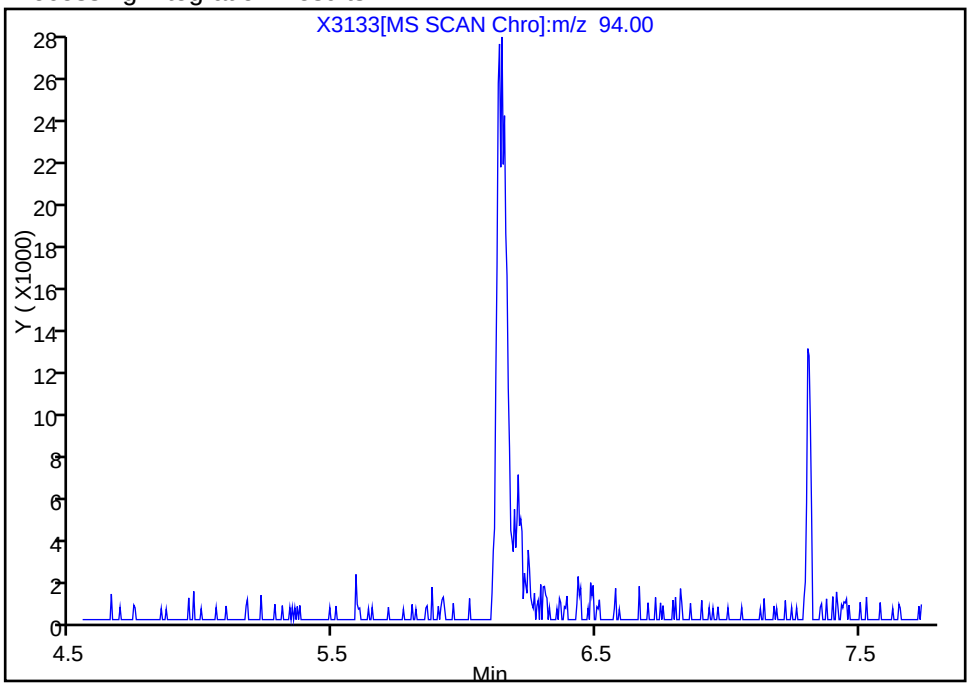
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3133.D		
Injection Date:	18-Dec-2012 12:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

22 Phenol, Signal: 1, m/z: 94.0 Type: quant, RT: 6.14

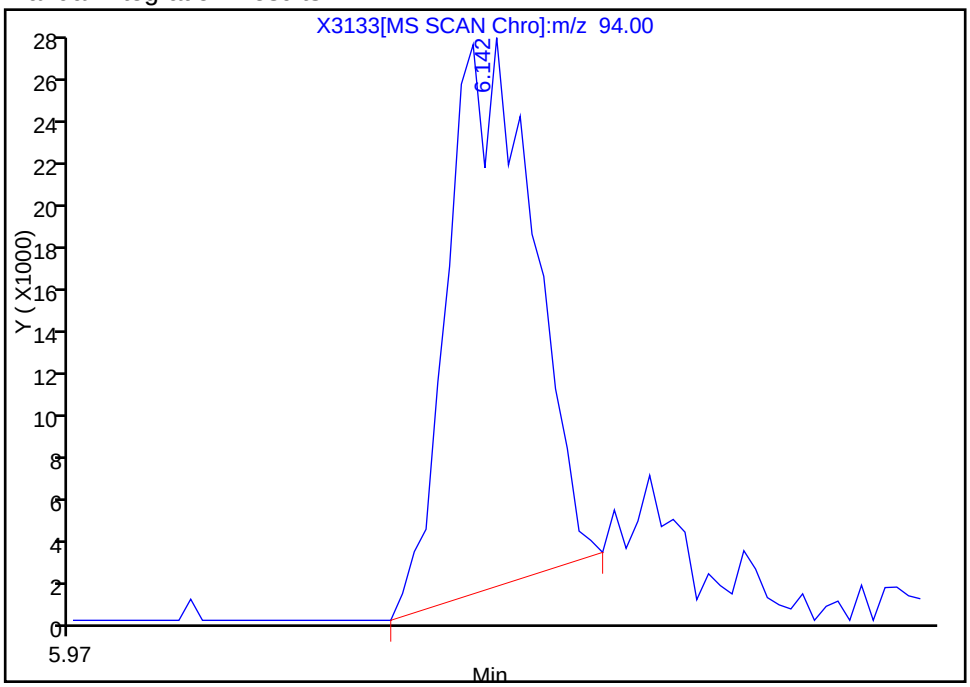
Processing Integration Results

Not Detected
Expected RT: 6.14



Manual Integration Results

RT: 6.14
Response: 63116
Amount: 0.879884



Reviewer: mckernar, 18-Dec-2012 13:05:29
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

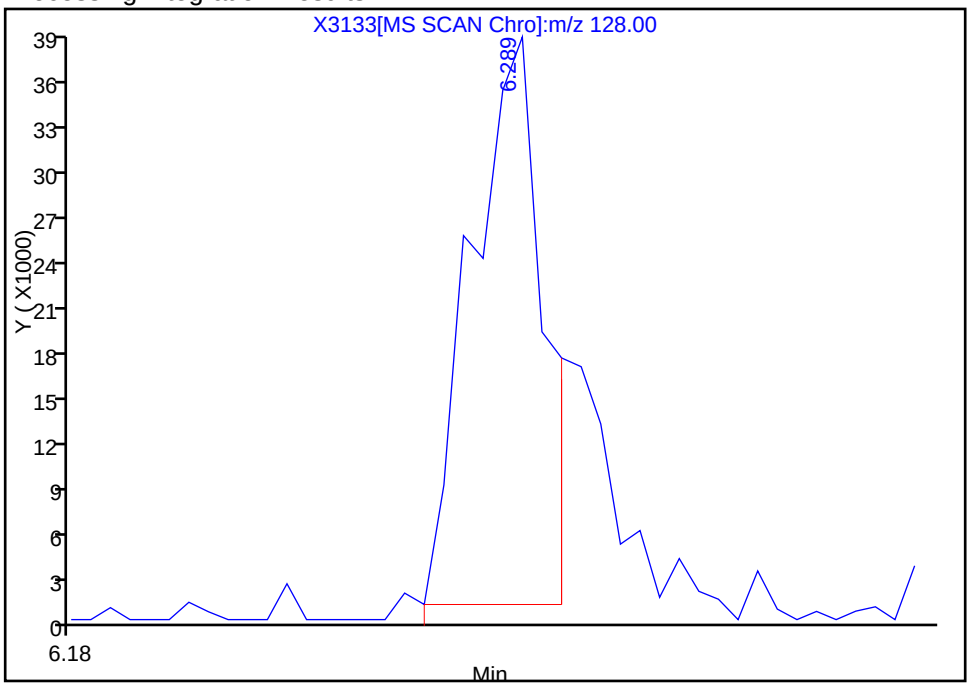
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3133.D		
Injection Date:	18-Dec-2012 12:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

25 2-Chlorophenol, Signal: 1, m/z: 128.0 Type: quant, RT: 6.29

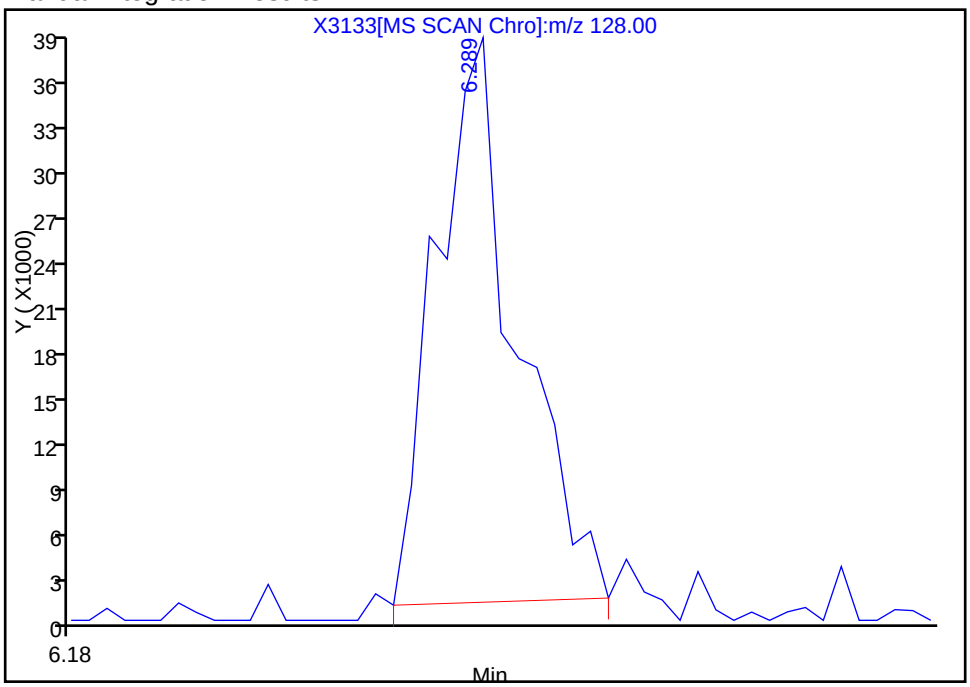
Processing Integration Results

RT: 6.29
Response: 46241
Amount: 0.974687



Manual Integration Results

RT: 6.29
Response: 55968
Amount: 0.917797



Reviewer: mckernar, 18-Dec-2012 13:05:29
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Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

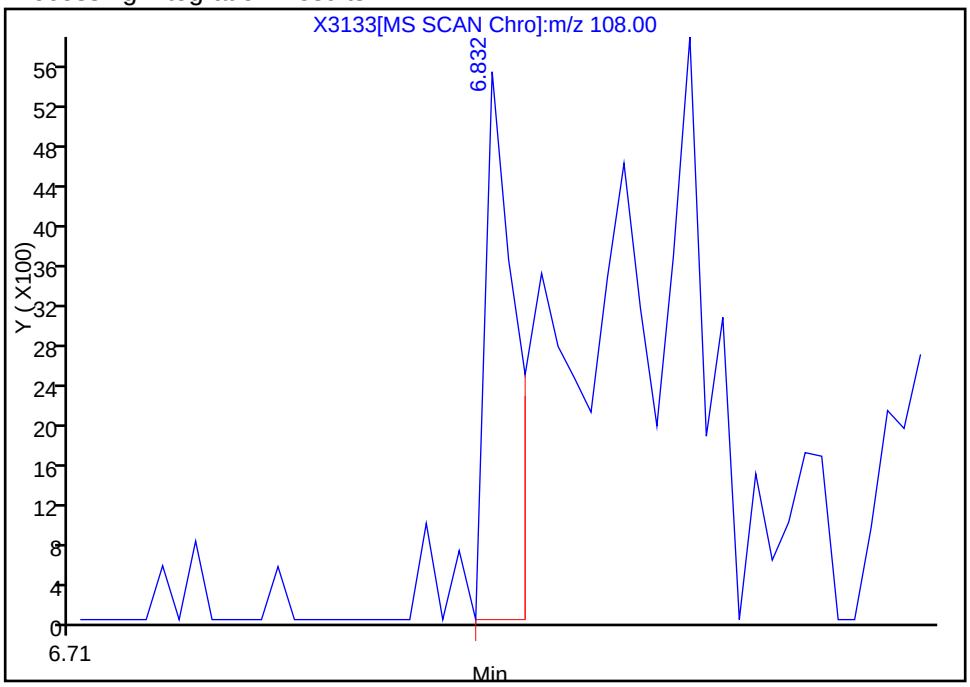
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3133.D		
Injection Date:	18-Dec-2012 12:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

28 Benzyl alcohol, Signal: 1, m/z: 108.0 Type: quant, RT: 6.85

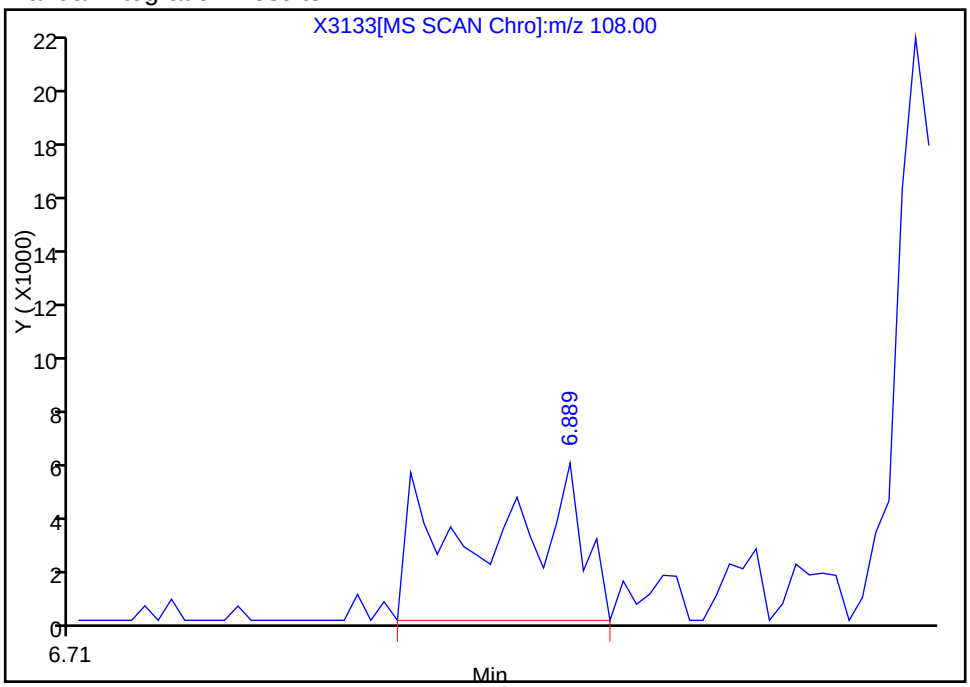
Processing Integration Results

RT: 6.83
Response: 3277
Amount: 1.313336



Manual Integration Results

RT: 6.89
Response: 14091
Amount: 0.795845



Reviewer: mckernar, 18-Dec-2012 13:05:29
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:03 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

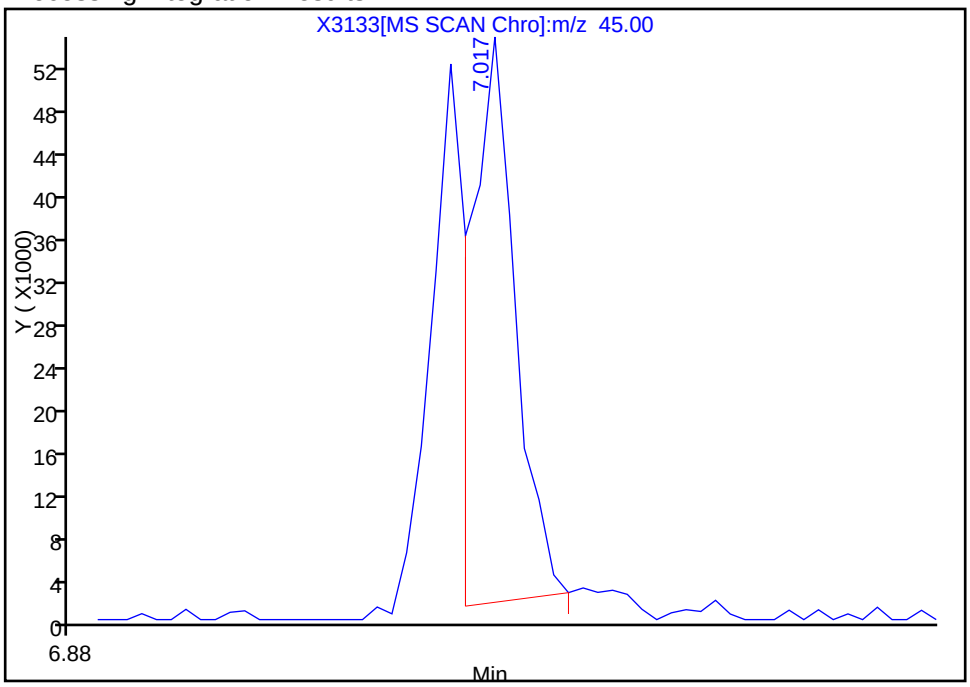
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3133.D		
Injection Date:	18-Dec-2012 12:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

32 2,2'-oxybis[1-chloropropane], Signal: 1, m/z: 45.0 Type: quant, RT: 7.02

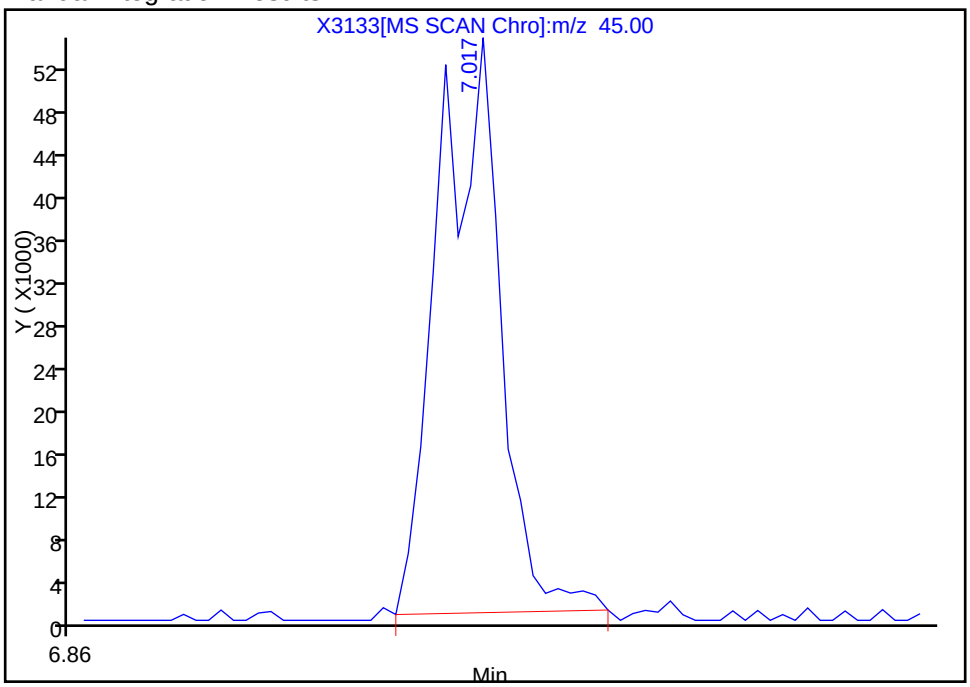
Processing Integration Results

RT: 7.02
Response: 53632
Amount: 0.728838



Manual Integration Results

RT: 7.02
Response: 88085
Amount: 0.959531



Reviewer: mckernar, 18-Dec-2012 13:05:29
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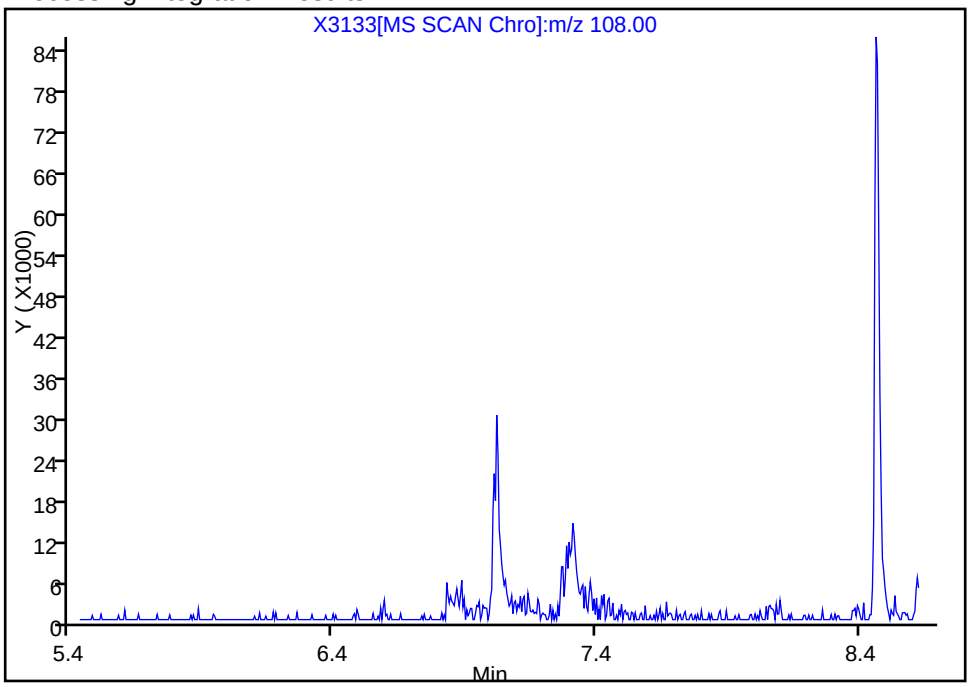
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

31 2-Methylphenol, Signal: 1, m/z: 108.0 Type: quant, RT: 7.03

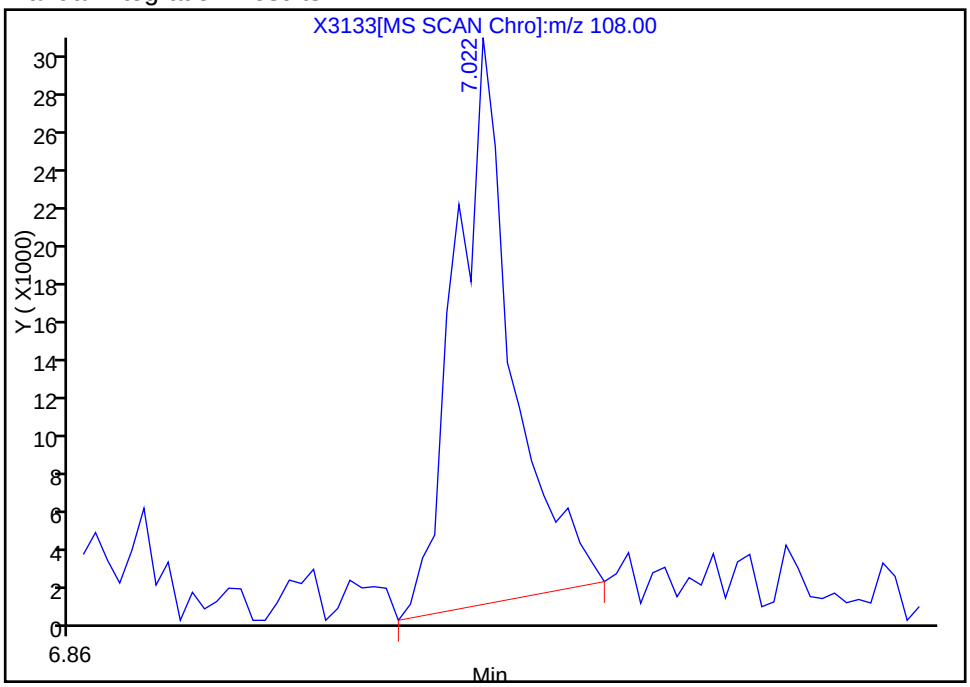
Processing Integration Results

Not Detected
Expected RT: 7.03



Manual Integration Results

RT: 7.02
Response: 45407
Amount: 0.887078



Reviewer: mckernar, 18-Dec-2012 13:05:29
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Manual Integration/User Assign Peak Report

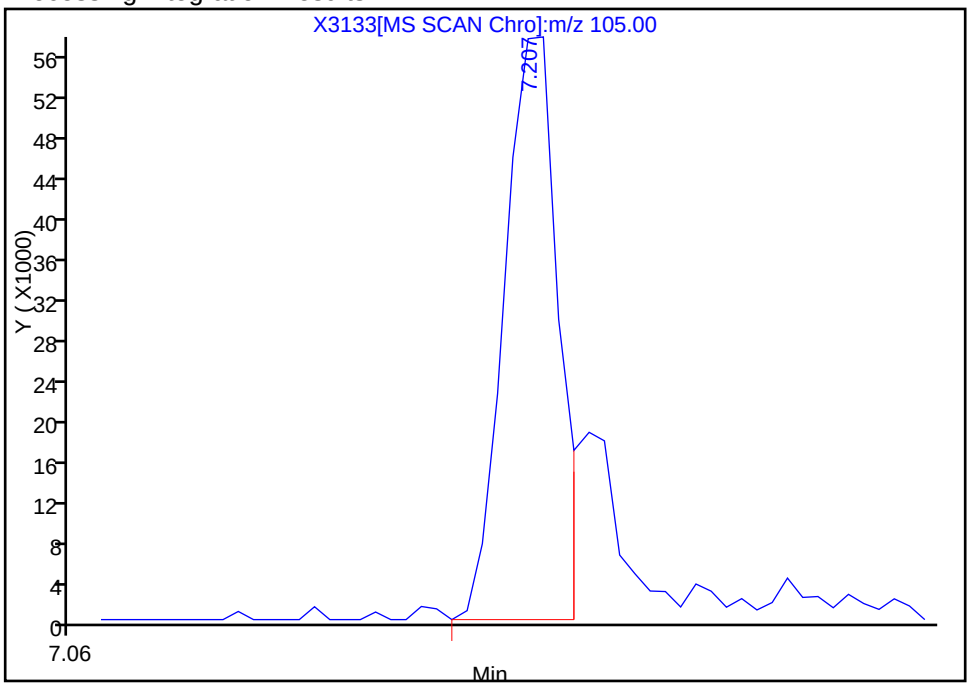
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3133.D		
Injection Date:	18-Dec-2012 12:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

33 Acetophenone, Signal: 1, m/z: 105.0 Type: quant, RT: 7.21

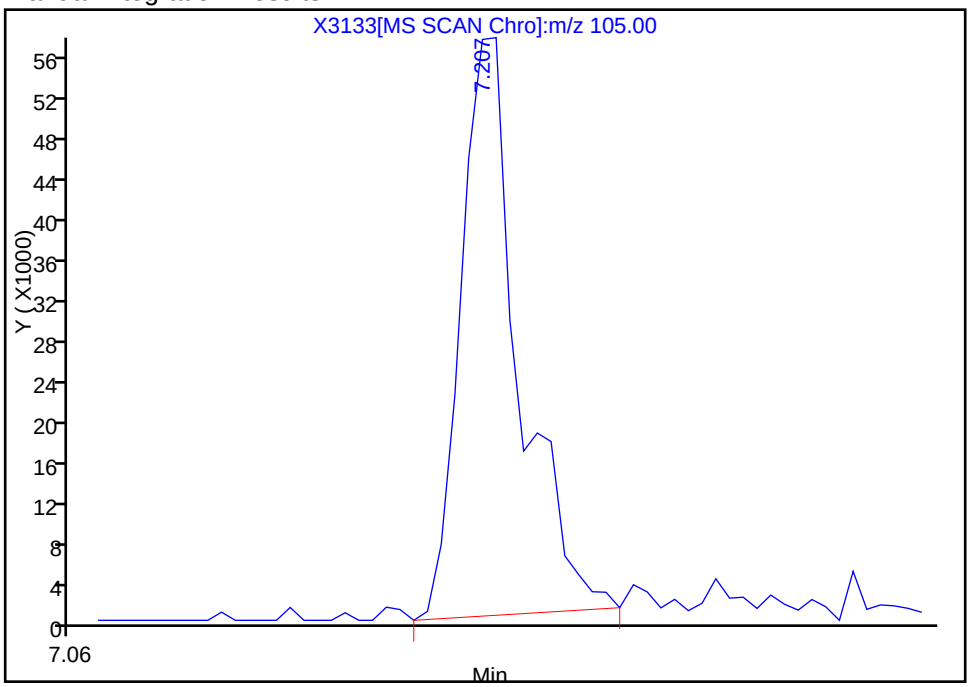
Processing Integration Results

RT: 7.21
Response: 67490
Amount: 1.080890



Manual Integration Results

RT: 7.21
Response: 79952
Amount: 0.915491



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TestAmerica Buffalo

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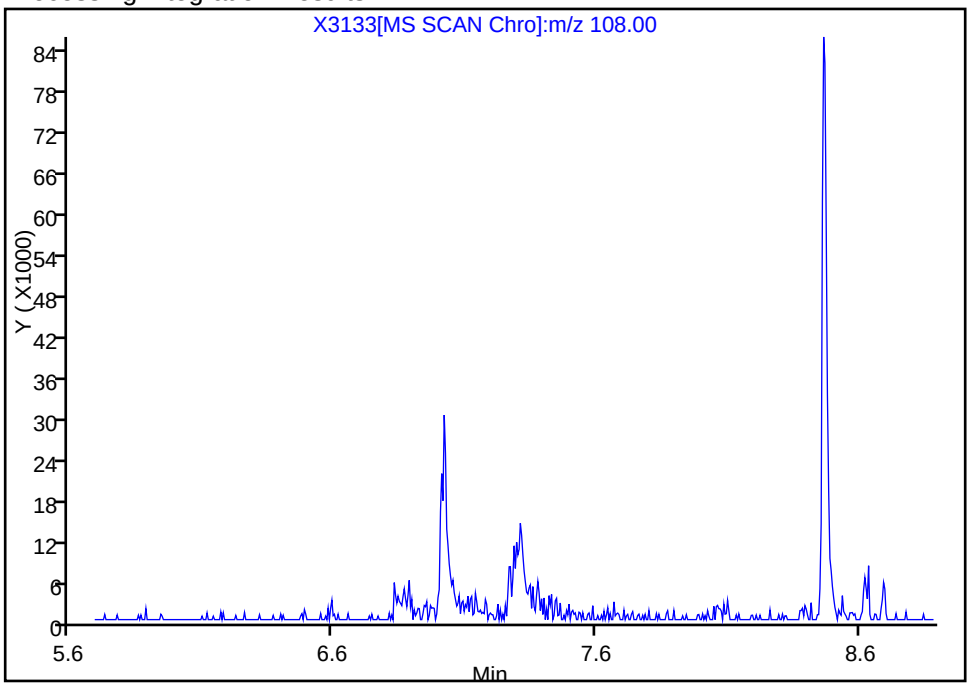
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

36 4-Methylphenol, Signal: 1, m/z: 108.0 Type: quant, RT: 7.29

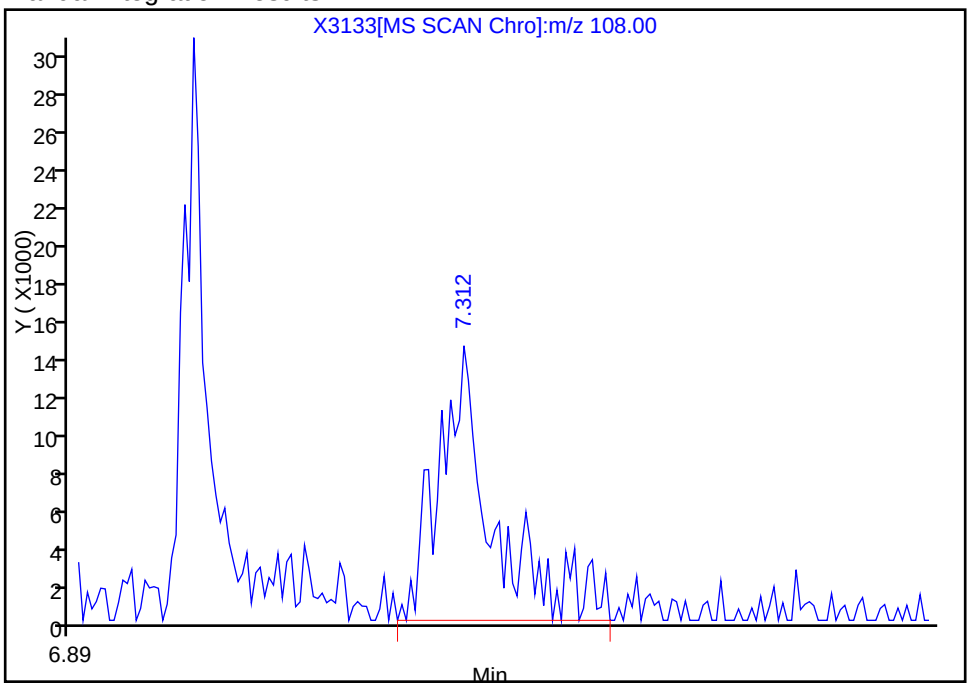
Processing Integration Results

Not Detected
Expected RT: 7.29



Manual Integration Results

RT: 7.31
Response: 57517
Amount: 1.109485



Reviewer: mckernar, 18-Dec-2012 13:05:29
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

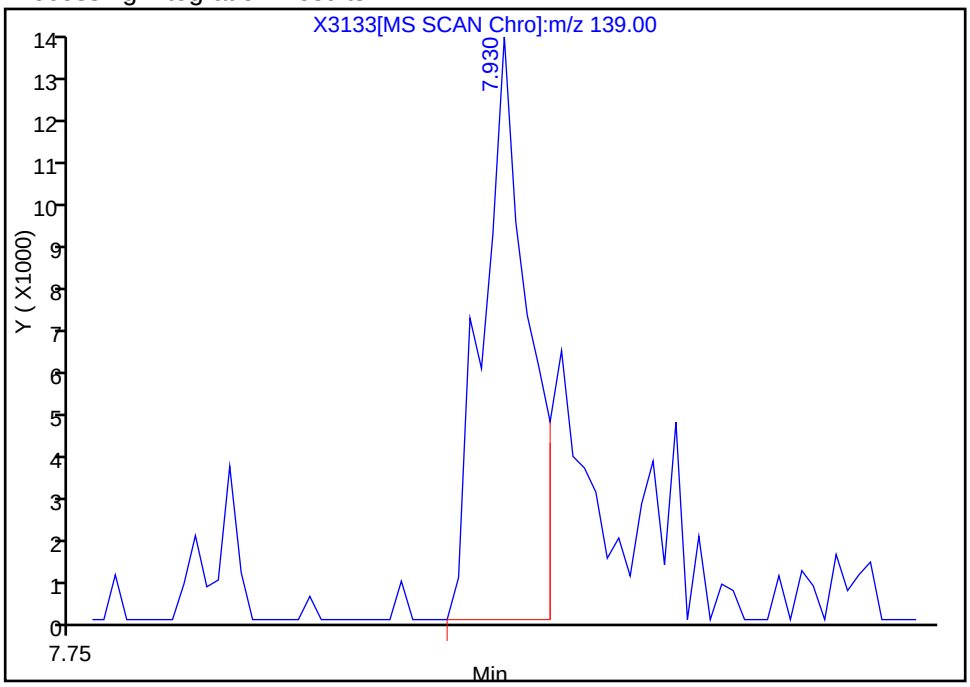
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3133.D		
Injection Date:	18-Dec-2012 12:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

41 2-Nitrophenol, Signal: 1, m/z: 139.0 Type: quant, RT: 7.94

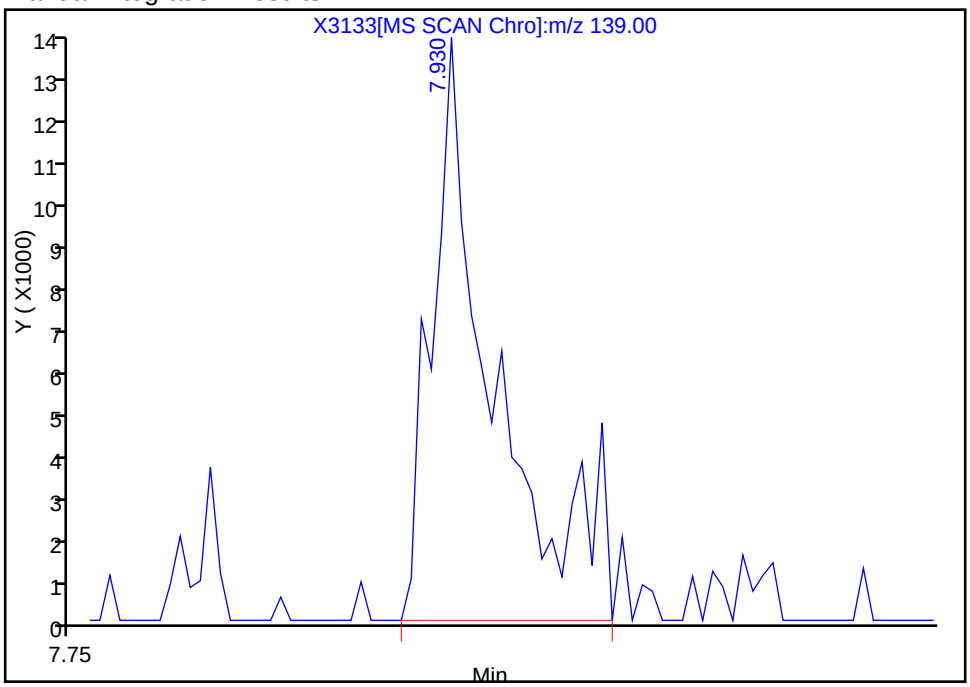
Processing Integration Results

RT: 7.93
Response: 17722
Amount: 0.928988



Manual Integration Results

RT: 7.93
Response: 27016
Amount: 0.904879



Reviewer: mckernar, 18-Dec-2012 13:05:29
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:03 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

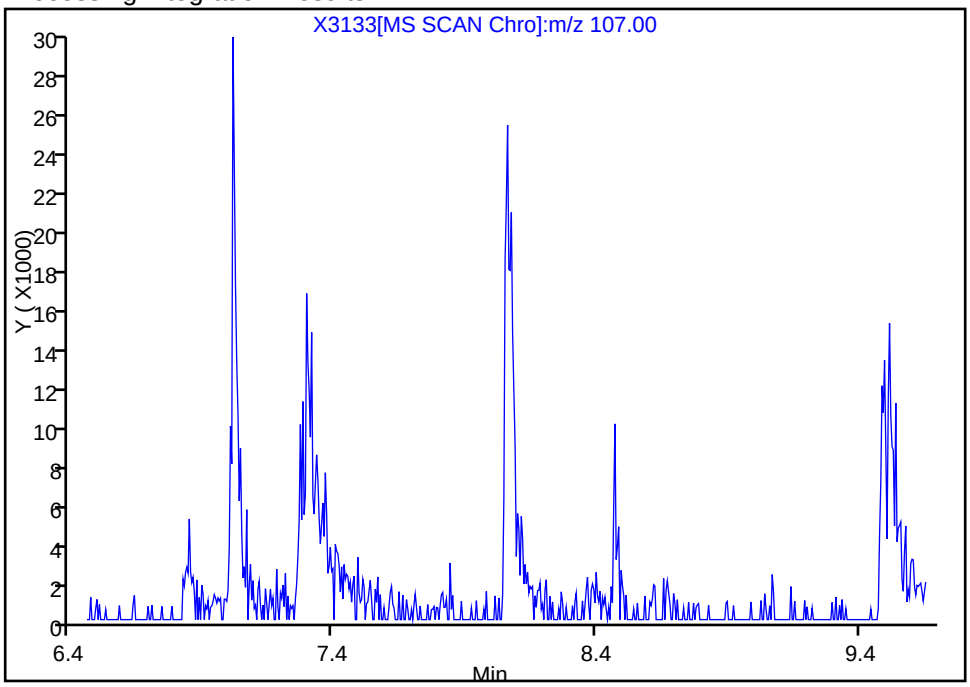
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3133.D		
Injection Date:	18-Dec-2012 12:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

43 2,4-Dimethylphenol, Signal: 1, m/z: 107.0 Type: quant, RT: 8.06

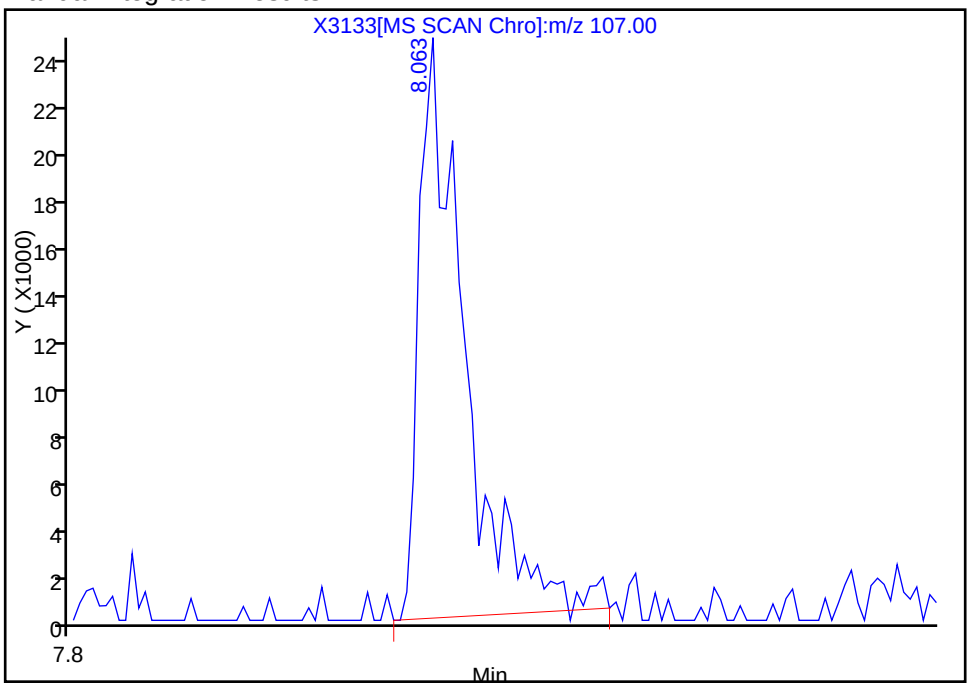
Processing Integration Results

Not Detected
Expected RT: 8.06



Manual Integration Results

RT: 8.06
Response: 56555
Amount: 1.004242



Reviewer: mckernar, 18-Dec-2012 13:05:29
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

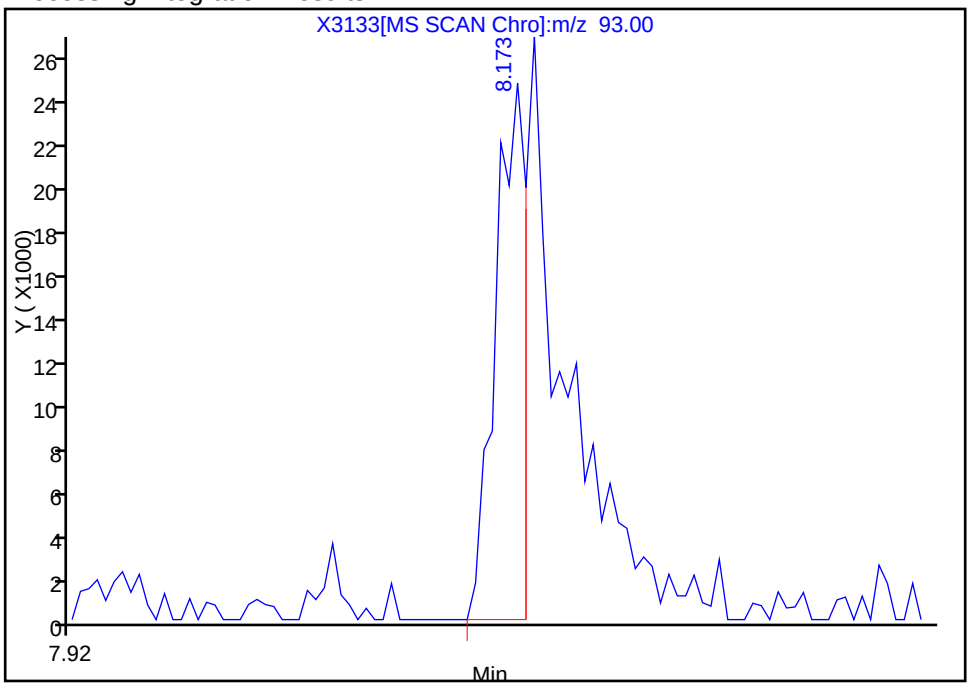
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3133.D		
Injection Date:	18-Dec-2012 12:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

45 Bis(2-chloroethoxy)methane, Signal: 1, m/z: 93.0 Type: quant, RT: 8.18

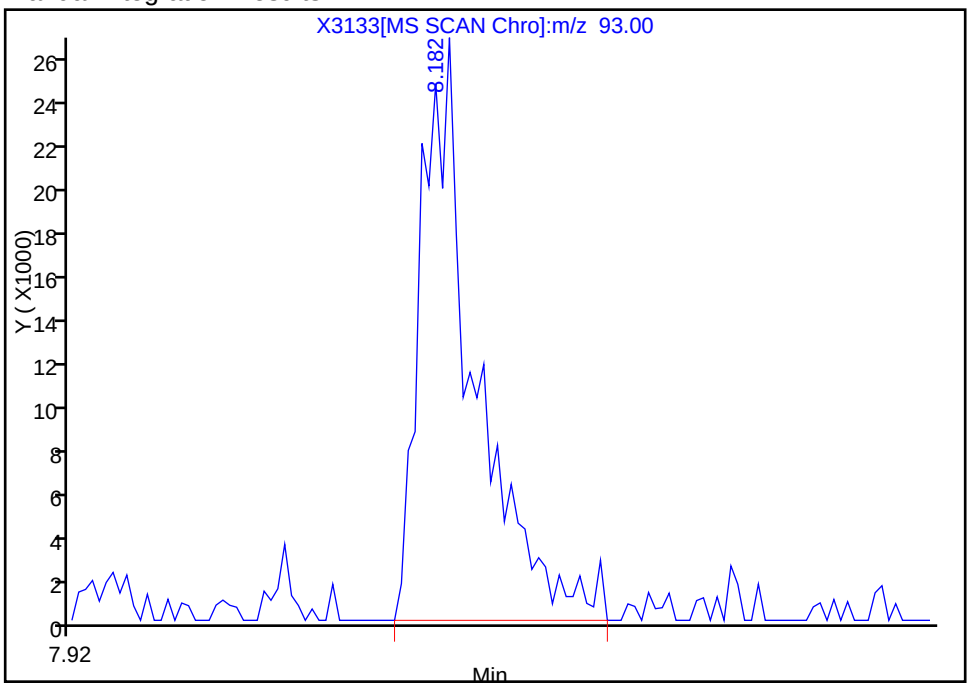
Processing Integration Results

RT: 8.17
Response: 29029
Amount: 0.852615



Manual Integration Results

RT: 8.18
Response: 68136
Amount: 1.066069



Reviewer: mckernar, 18-Dec-2012 13:05:29
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

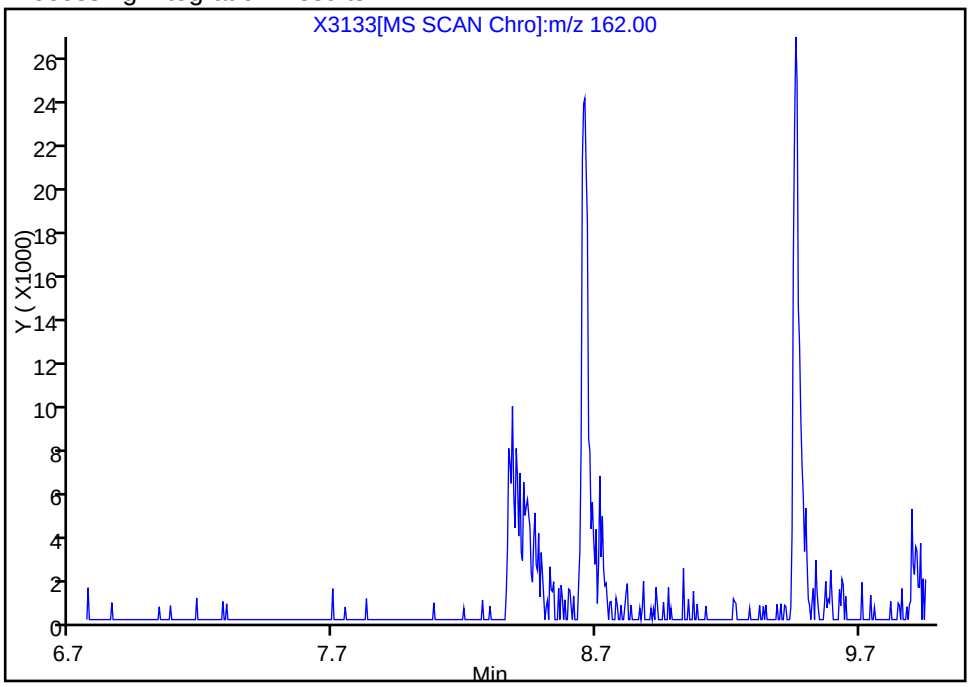
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3133.D		
Injection Date:	18-Dec-2012 12:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

47 2,4-Dichlorophenol, Signal: 1, m/z: 162.0 Type: quant, RT: 8.36

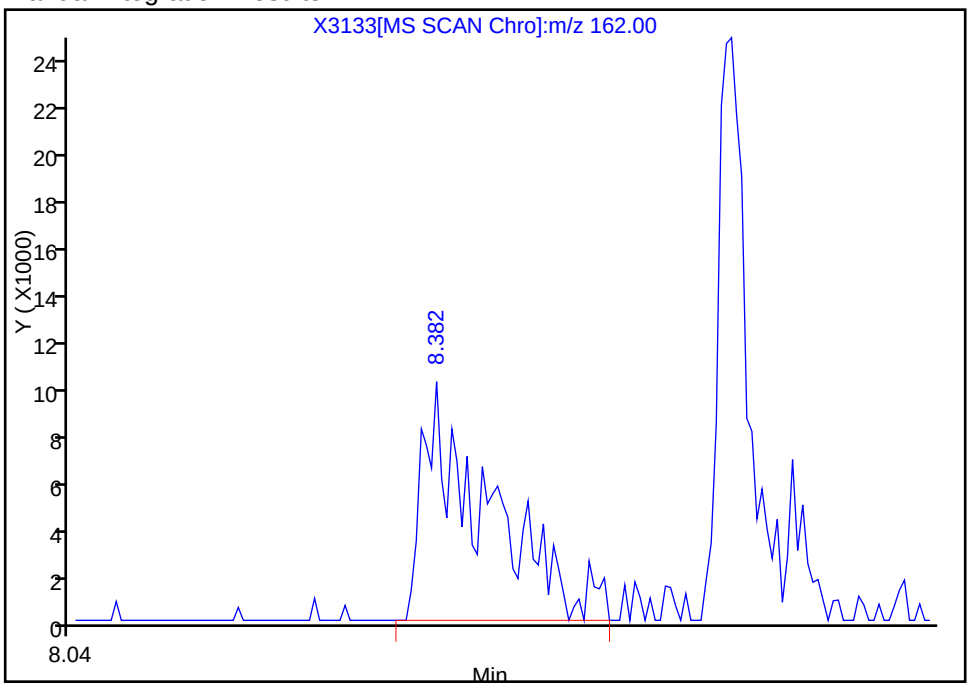
Processing Integration Results

Not Detected
Expected RT: 8.36



Manual Integration Results

RT: 8.38
Response: 41301
Amount: 0.901235



Reviewer: mckernar, 18-Dec-2012 13:05:29
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

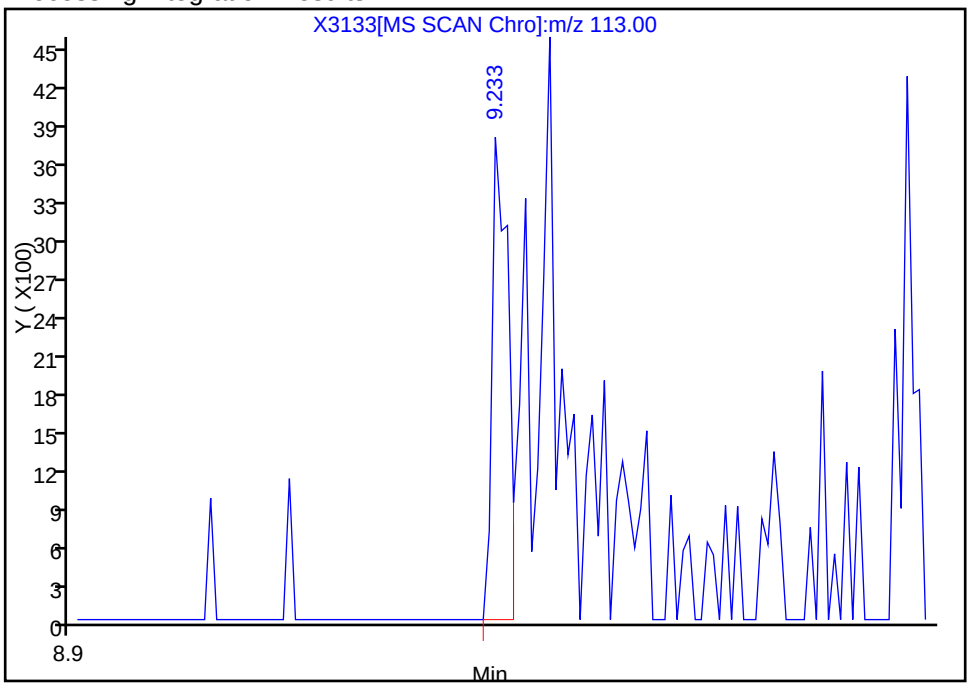
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3133.D		
Injection Date:	18-Dec-2012 12:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

54 Caprolactam, Signal: 1, m/z: 113.0 Type: quant, RT: 9.21

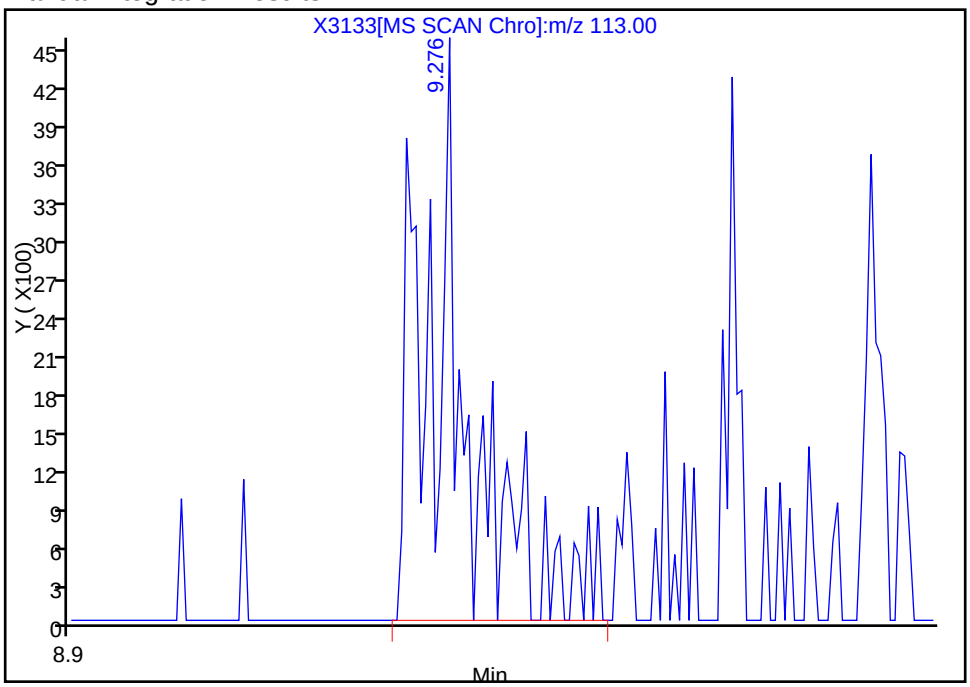
Processing Integration Results

RT: 9.23
Response: 3250
Amount: 0.423728



Manual Integration Results

RT: 9.28
Response: 13444
Amount: 0.806018



Reviewer: mckernar, 18-Dec-2012 13:05:29
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

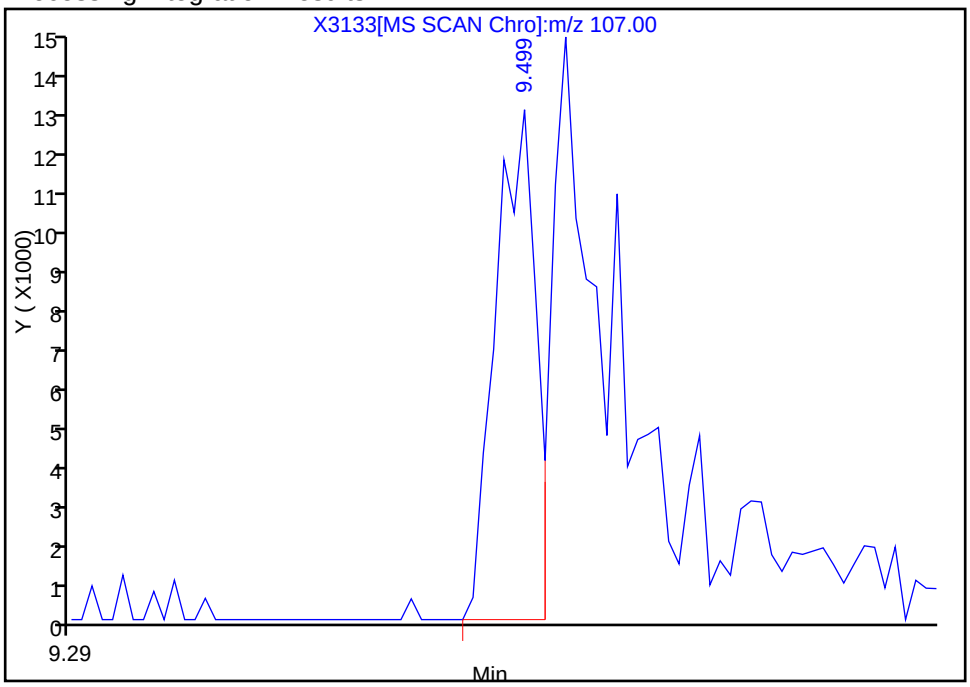
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3133.D		
Injection Date:	18-Dec-2012 12:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

55 4-Chloro-3-methylphenol, Signal: 1, m/z: 107.0 Type: quant, RT: 9.47

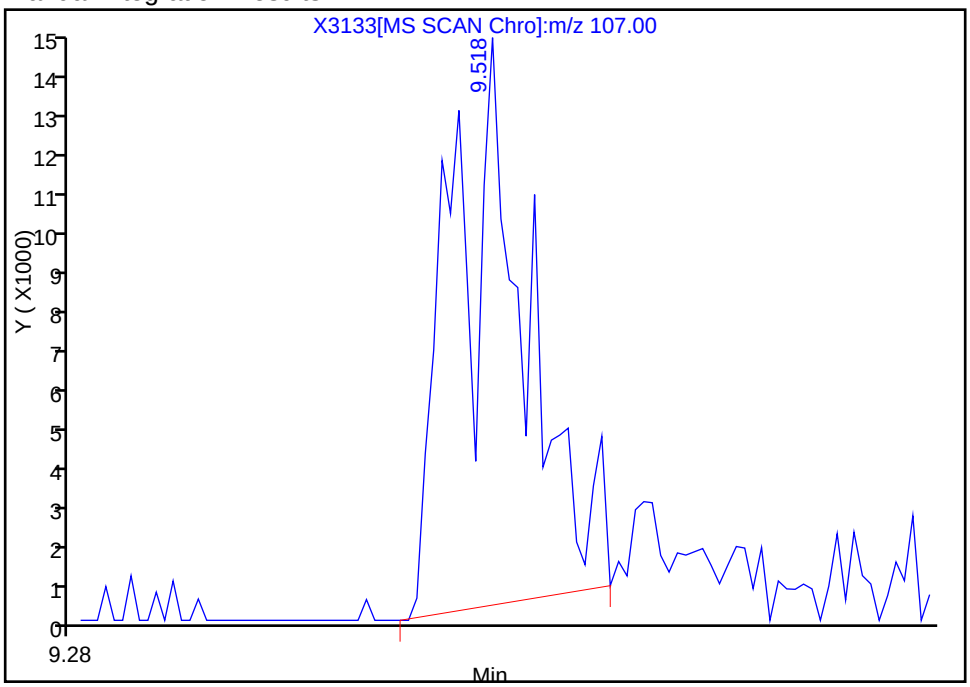
Processing Integration Results

RT: 9.50
Response: 16928
Amount: 0.663192



Manual Integration Results

RT: 9.52
Response: 41948
Amount: 0.828522



Reviewer: mckernar, 18-Dec-2012 13:05:29
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:03 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

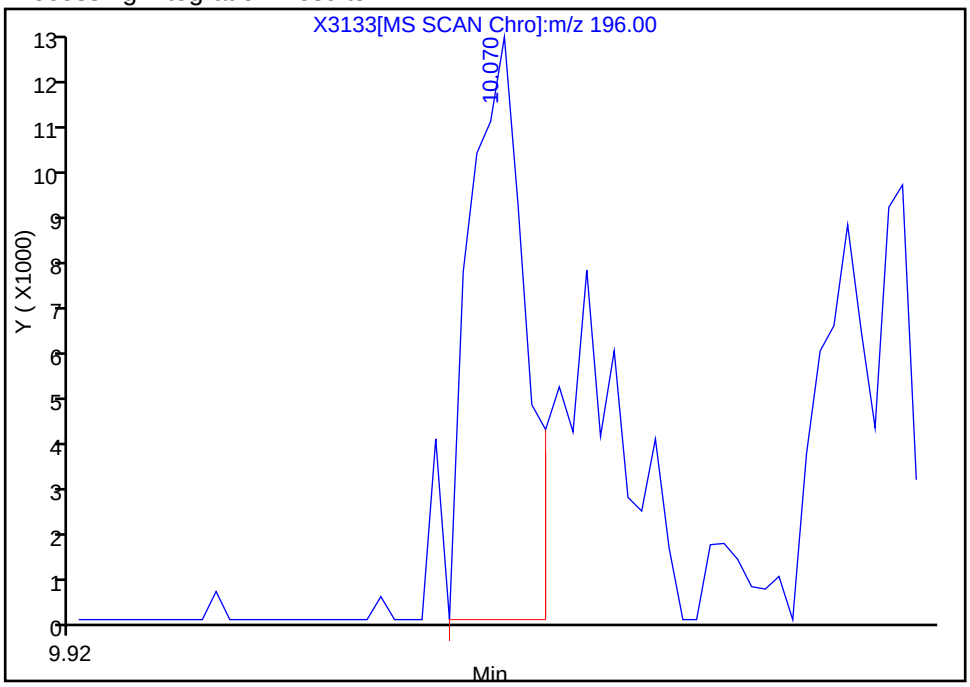
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3133.D		
Injection Date:	18-Dec-2012 12:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

60 2,4,6-Trichlorophenol, Signal: 1, m/z: 196.0 Type: quant, RT: 10.04

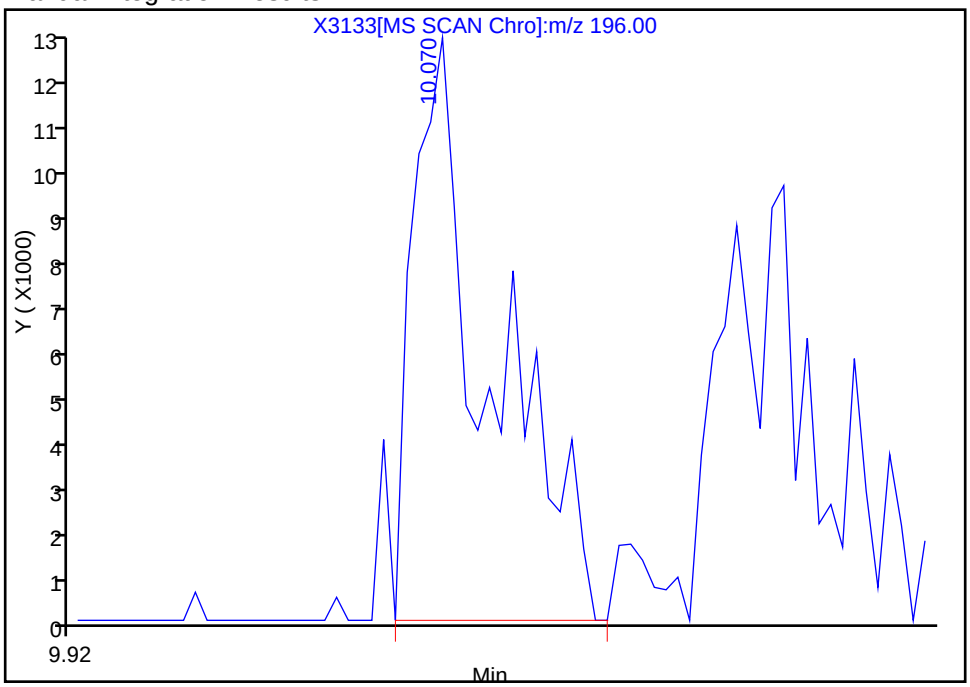
Processing Integration Results

RT: 10.07
Response: 16924
Amount: 0.811430



Manual Integration Results

RT: 10.07
Response: 27547
Amount: 0.909858



Reviewer: mckernar, 18-Dec-2012 13:05:29
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

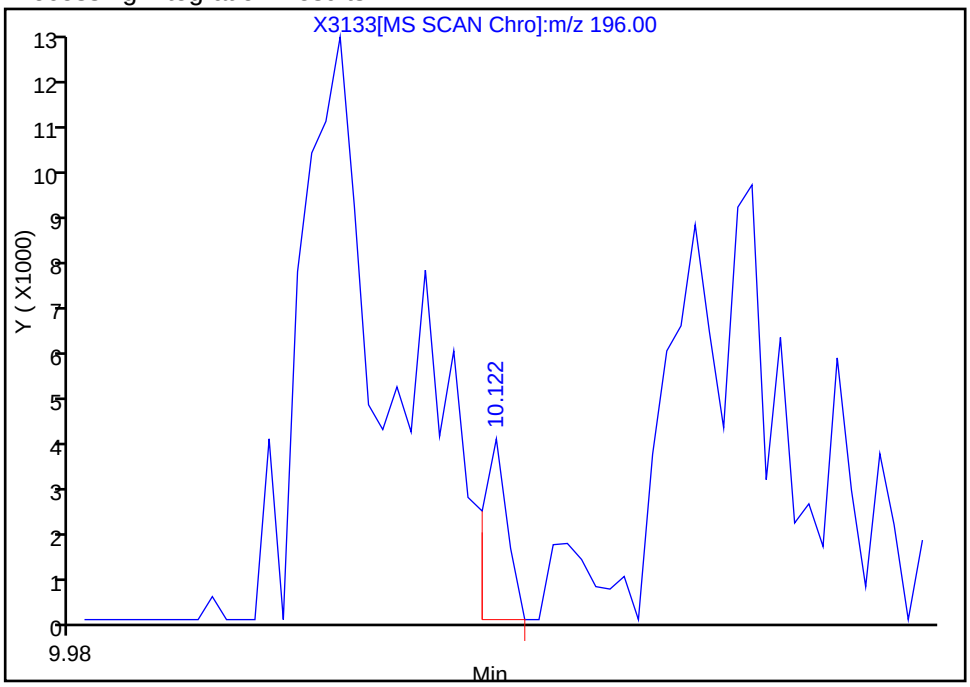
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3133.D		
Injection Date:	18-Dec-2012 12:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

61 2,4,5-Trichlorophenol, Signal: 1, m/z: 196.0 Type: quant, RT: 10.15

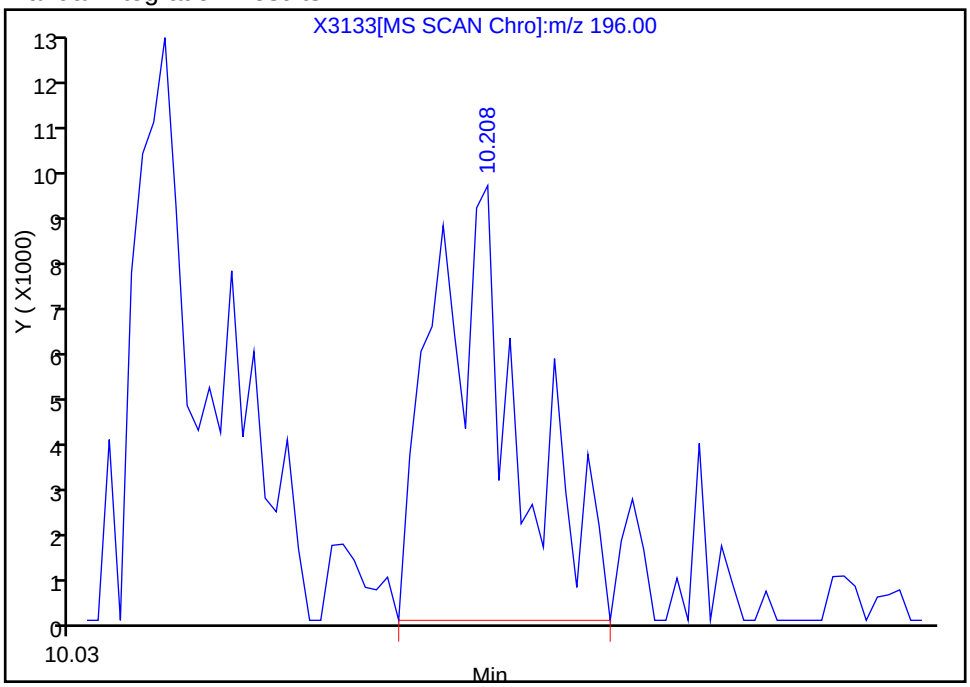
Processing Integration Results

RT: 10.12
Response: 2248
Amount: 0.133746



Manual Integration Results

RT: 10.21
Response: 23950
Amount: 0.817751



Reviewer: mckernar, 18-Dec-2012 13:05:29
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

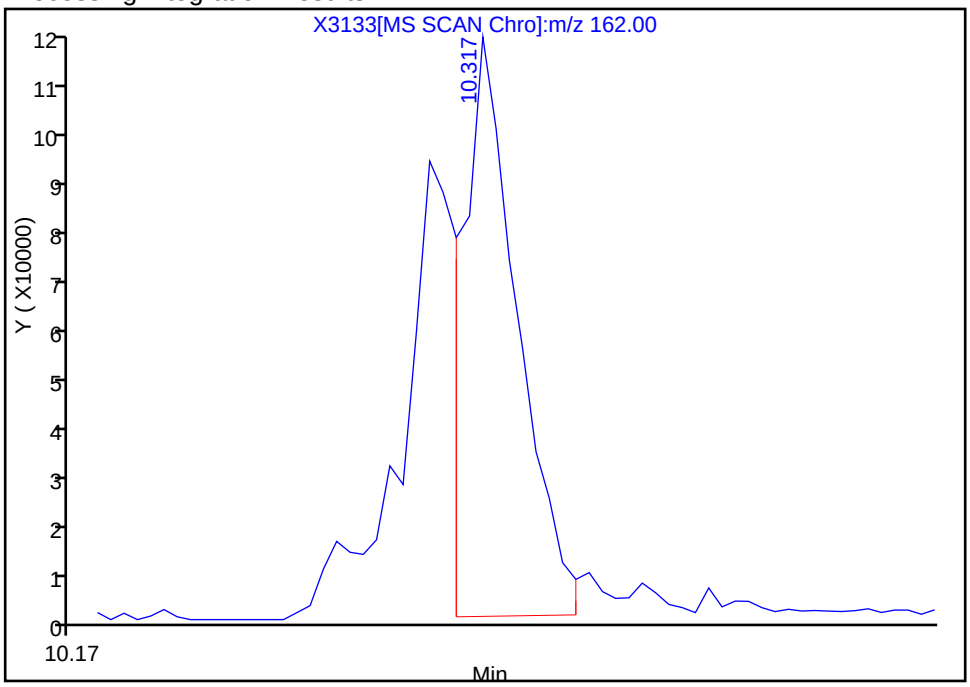
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3133.D		
Injection Date:	18-Dec-2012 12:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

63 2-Chloronaphthalene, Signal: 1, m/z: 162.0 Type: quant, RT: 10.32

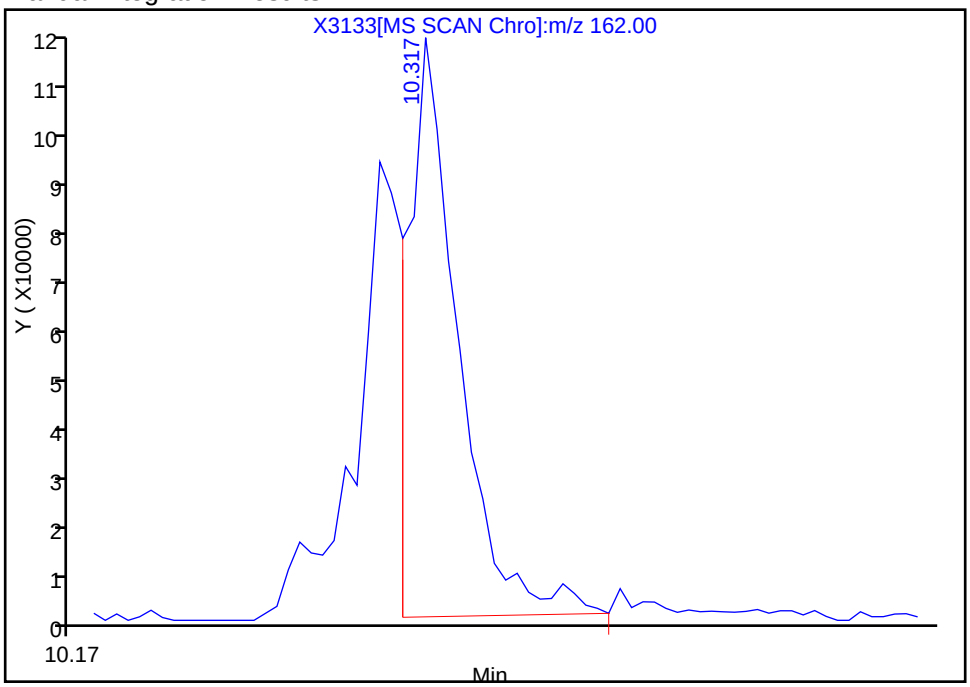
Processing Integration Results

RT: 10.32
Response: 156622
Amount: 0.695002



Manual Integration Results

RT: 10.32
Response: 165356
Amount: 0.920161



Reviewer: mckernar, 18-Dec-2012 13:05:29
Audit Action: Split an Integrated Peak
Audit Reason: Coelution

Report Date: 18-Dec-2012 16:43:03 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

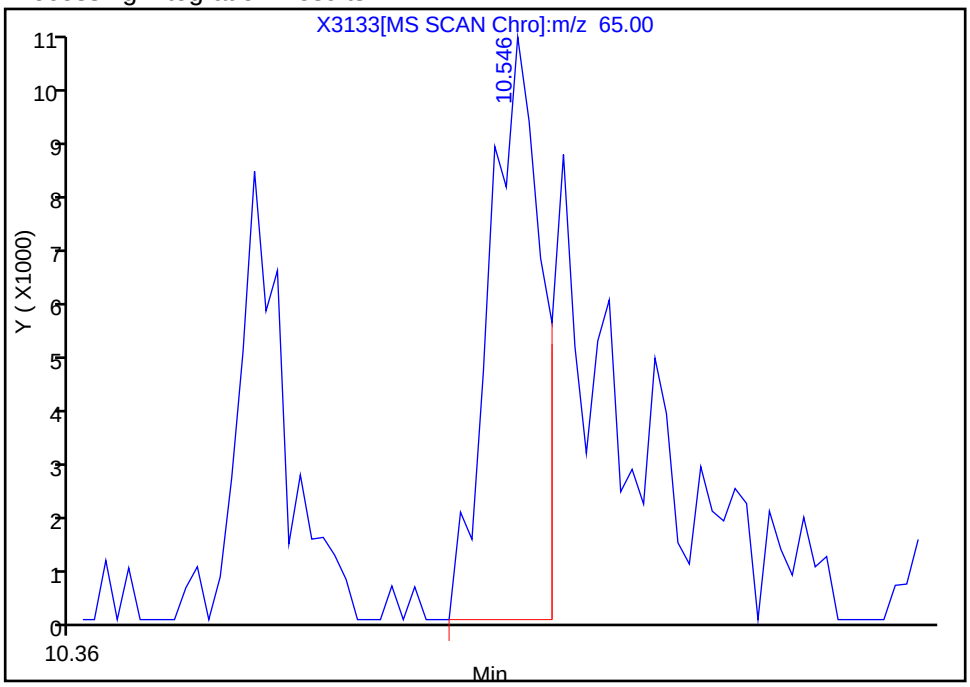
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3133.D		
Injection Date:	18-Dec-2012 12:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

65 2-Nitroaniline, Signal: 1, m/z: 65.0 Type: quant, RT: 10.51

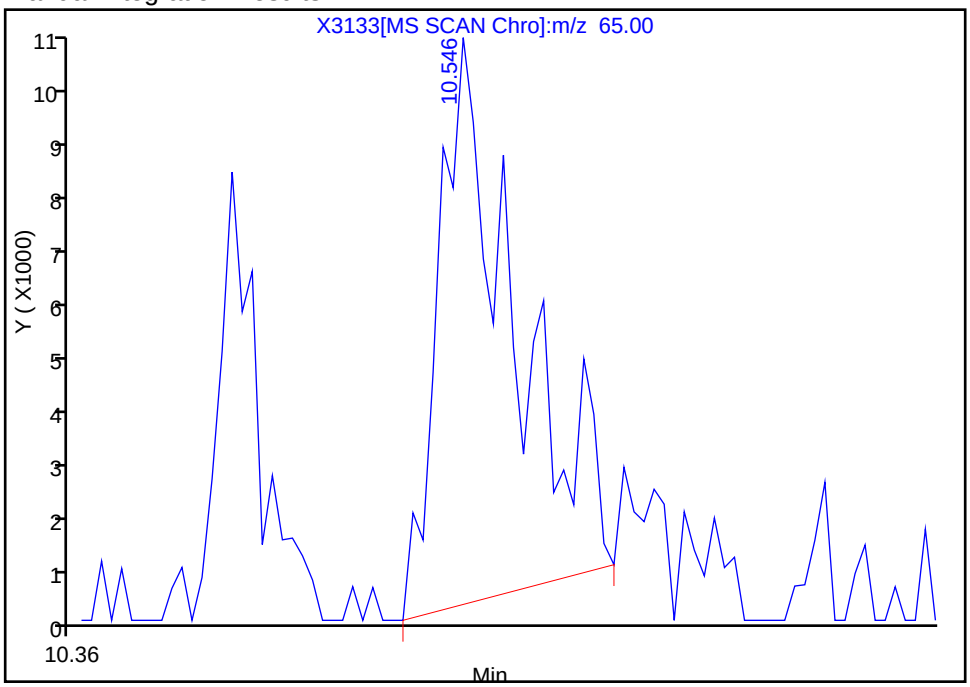
Processing Integration Results

RT: 10.55
Response: 15102
Amount: 0.655296



Manual Integration Results

RT: 10.55
Response: 24342
Amount: 0.701034



Reviewer: mckernar, 18-Dec-2012 13:05:29
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

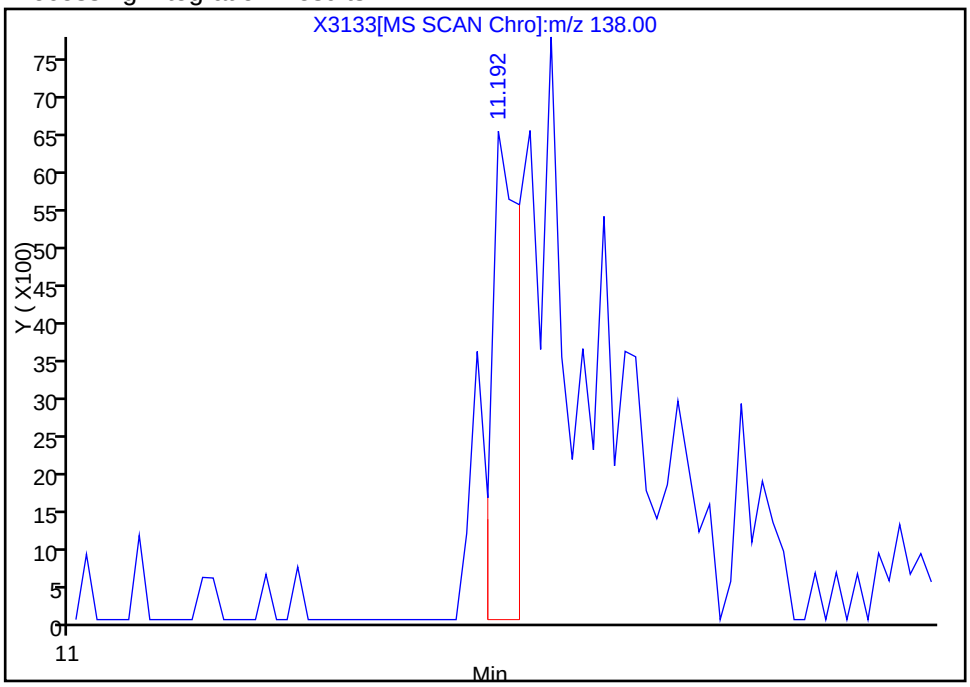
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3133.D		
Injection Date:	18-Dec-2012 12:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

70 3-Nitroaniline, Signal: 1, m/z: 138.0 Type: quant, RT: 11.16

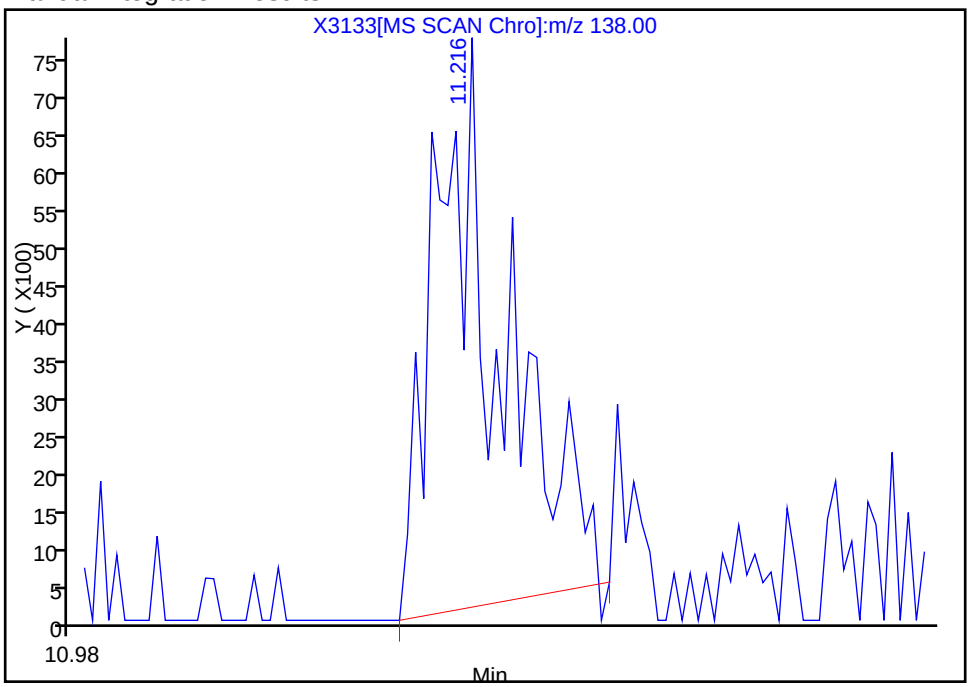
Processing Integration Results

RT: 11.19
Response: 5481
Amount: 1.000000



Manual Integration Results

RT: 11.22
Response: 21070
Amount: 0.689759



Reviewer: mckernar, 18-Dec-2012 13:05:29
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

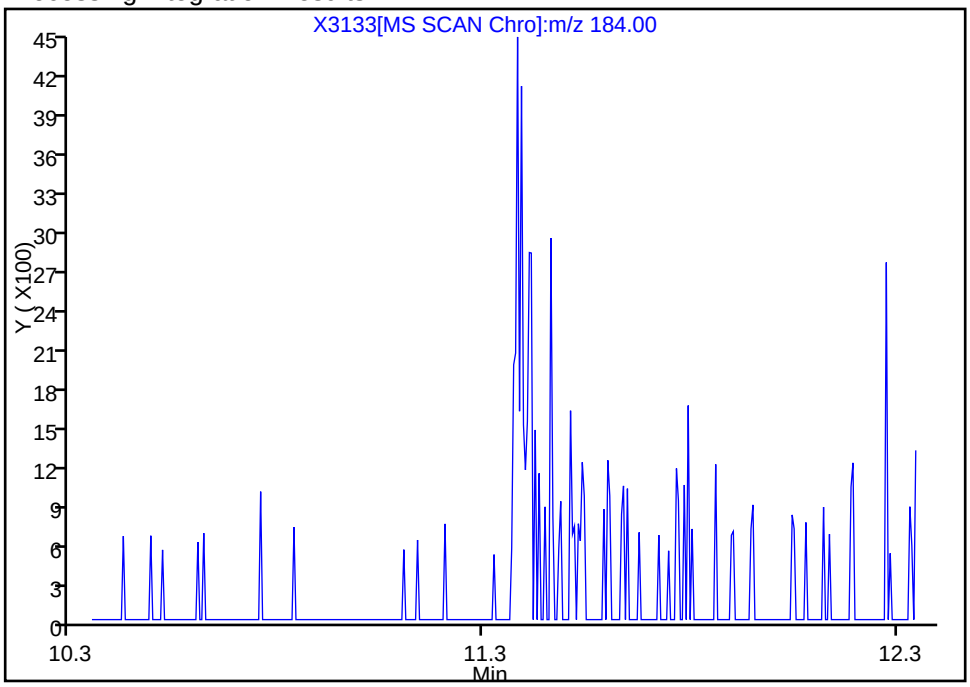
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3133.D		
Injection Date:	18-Dec-2012 12:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

72 2,4-Dinitrophenol, Signal: 1, m/z: 184.0 Type: quant, RT: 11.35

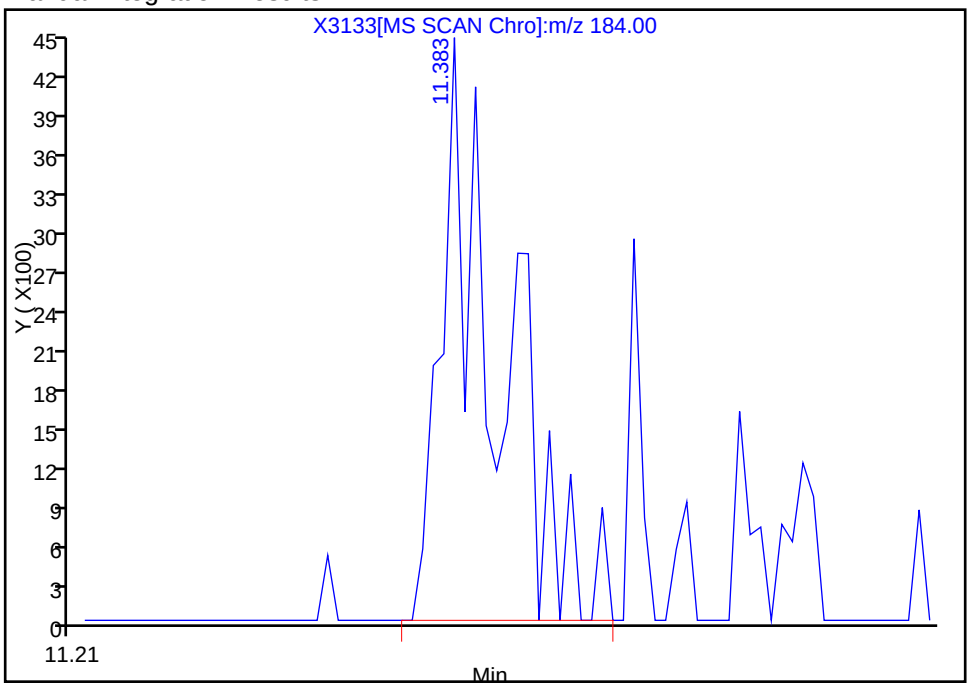
Processing Integration Results

Not Detected
Expected RT: 11.35



Manual Integration Results

RT: 11.38
Response: 7990
Amount: 0.882319



Reviewer: mckernar, 18-Dec-2012 13:05:29
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:03 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

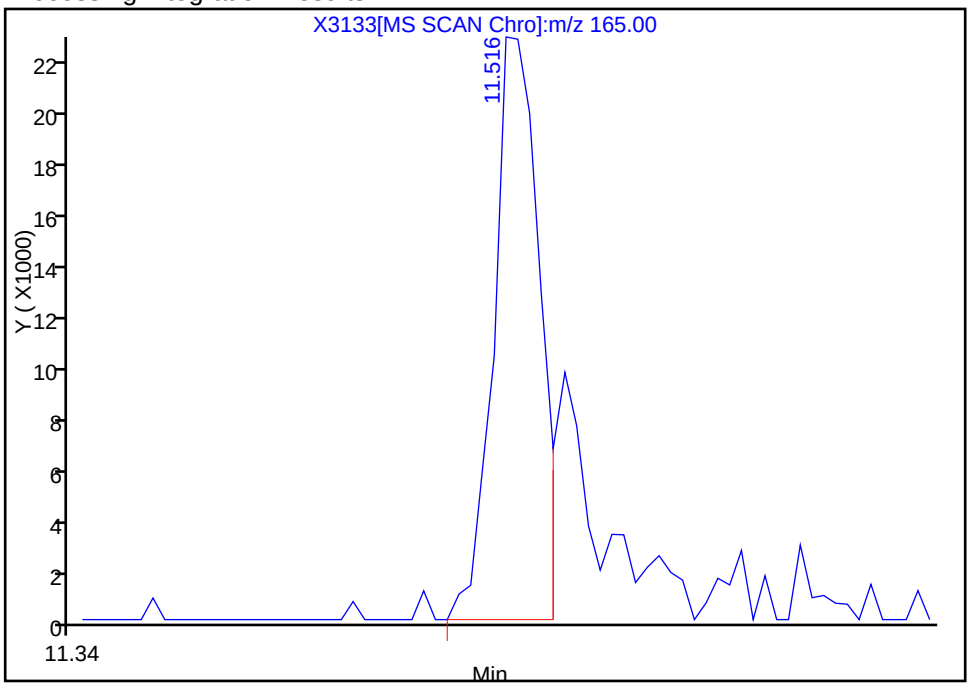
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3133.D		
Injection Date:	18-Dec-2012 12:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

74 2,4-Dinitrotoluene, Signal: 1, m/z: 165.0 Type: quant, RT: 11.49

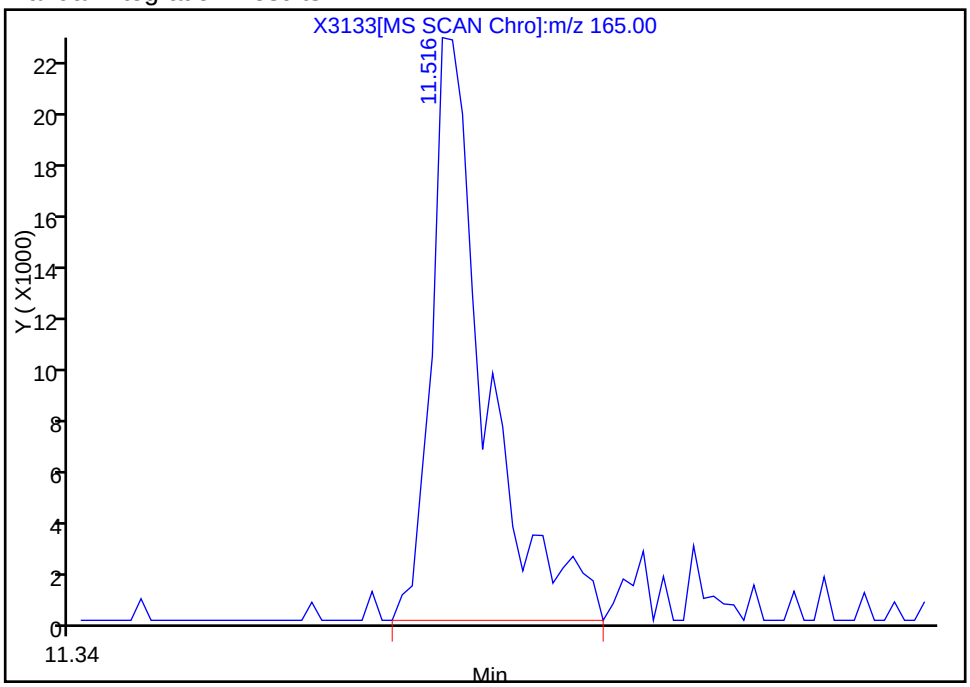
Processing Integration Results

RT: 11.52
Response: 29103
Amount: 0.996786



Manual Integration Results

RT: 11.52
Response: 40061
Amount: 1.020475



Reviewer: mckernar, 18-Dec-2012 13:05:29
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

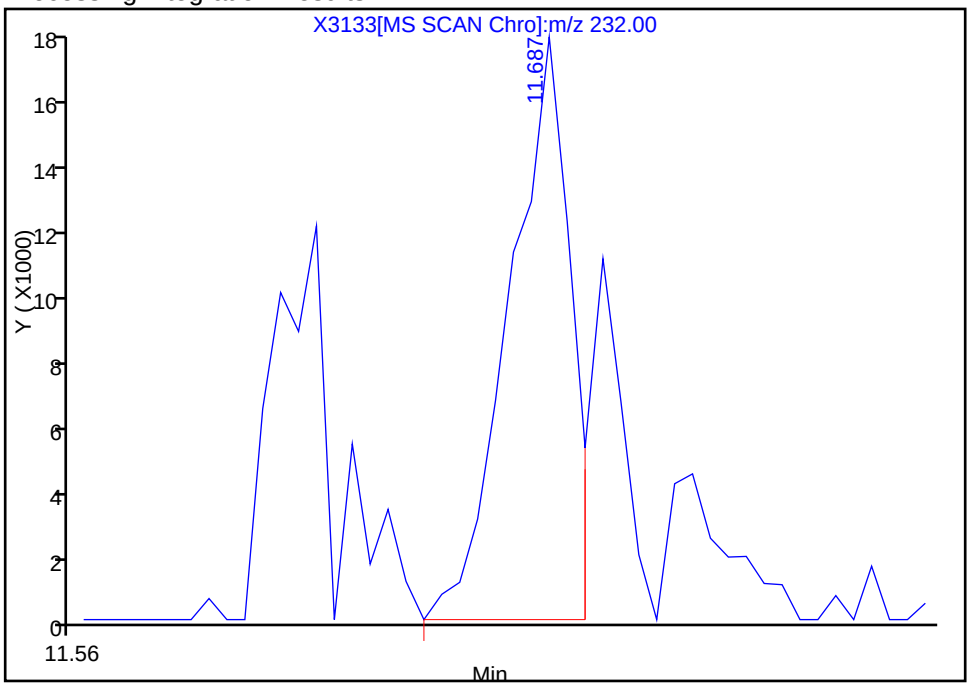
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3133.D		
Injection Date:	18-Dec-2012 12:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

76 2,3,4,6-Tetrachlorophenol, Signal: 1, m/z: 232.0 Type: quant, RT: 11.67

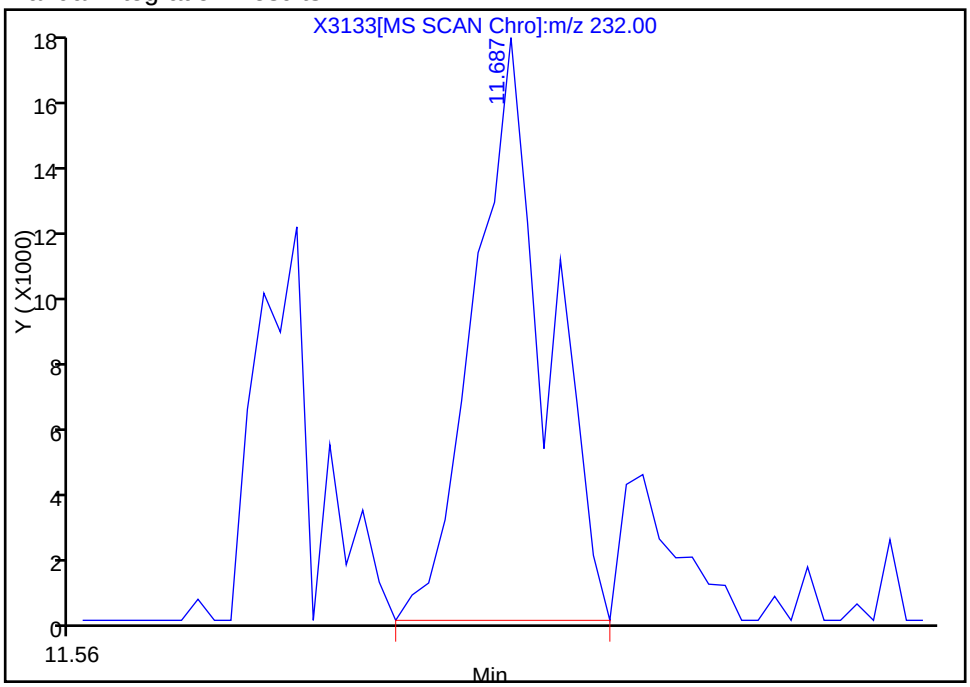
Processing Integration Results

RT: 11.69
Response: 20293
Amount: 0.921593



Manual Integration Results

RT: 11.69
Response: 25922
Amount: 1.100229



Reviewer: mckernar, 18-Dec-2012 15:43:05
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:03 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

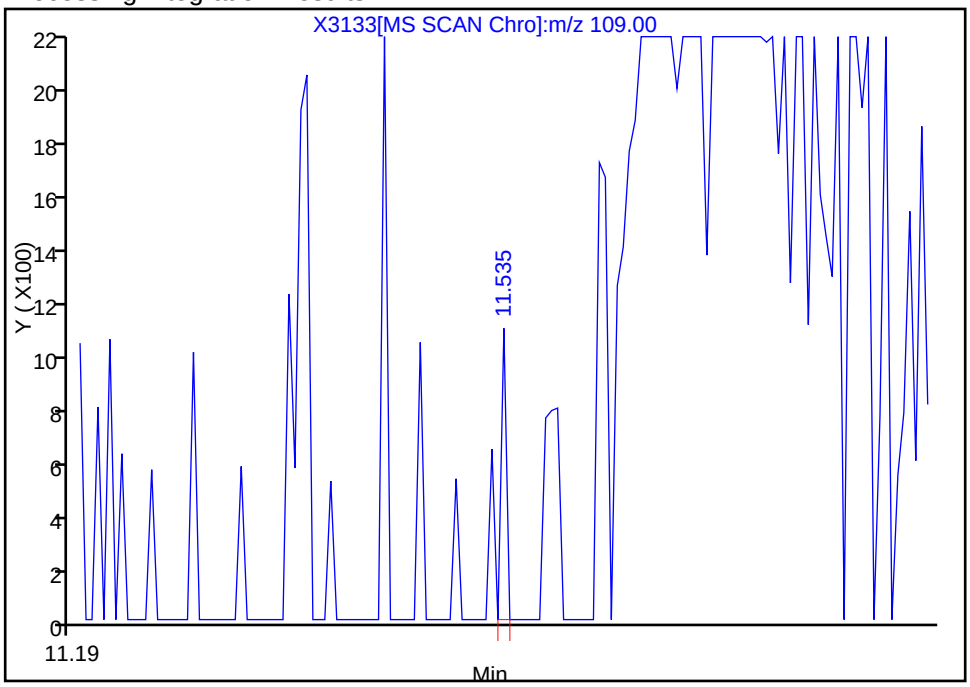
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3133.D		
Injection Date:	18-Dec-2012 12:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

75 4-Nitrophenol, Signal: 1, m/z: 109.0 Type: quant, RT: 11.61

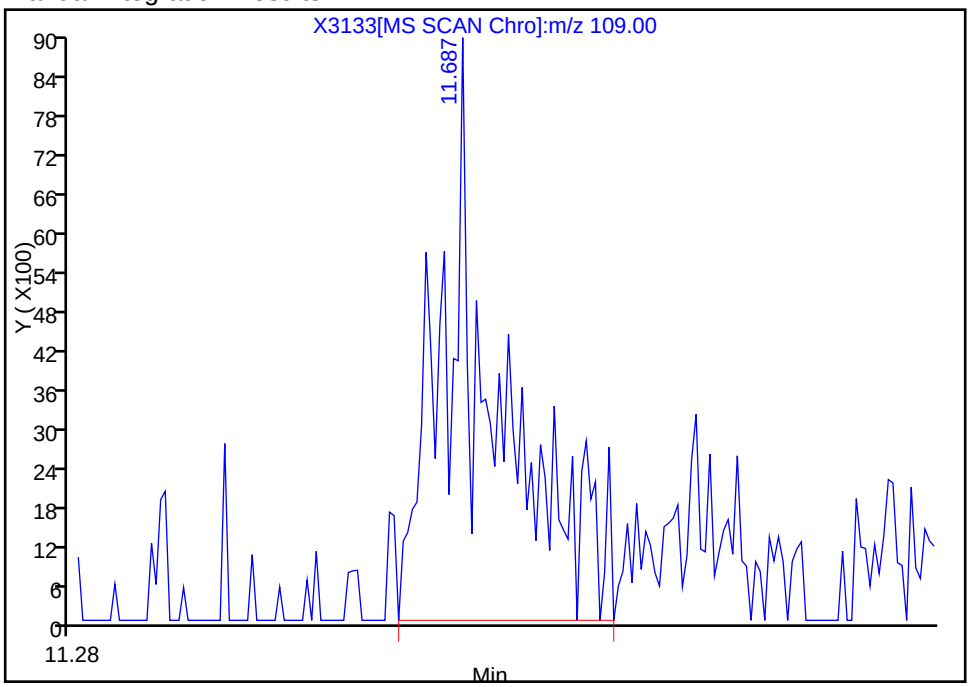
Processing Integration Results

RT: 11.53
Response: 302
Amount: 1.822509



Manual Integration Results

RT: 11.69
Response: 35867
Amount: 1.366770



Reviewer: mckernar, 18-Dec-2012 13:05:29
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

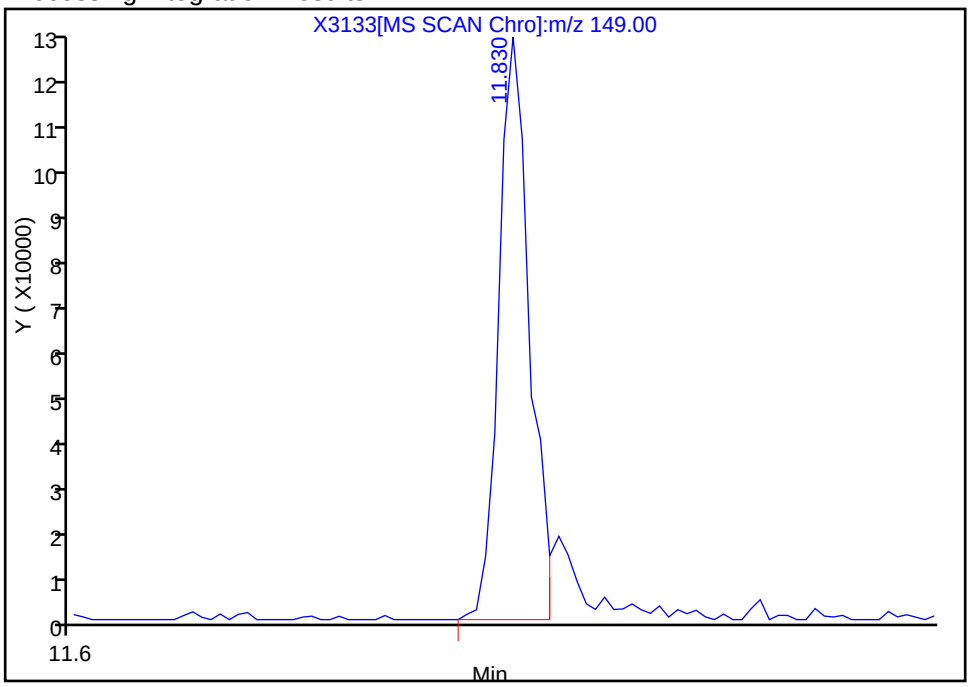
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3133.D		
Injection Date:	18-Dec-2012 12:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

78 Diethyl phthalate, Signal: 1, m/z: 149.0 Type: quant, RT: 11.82

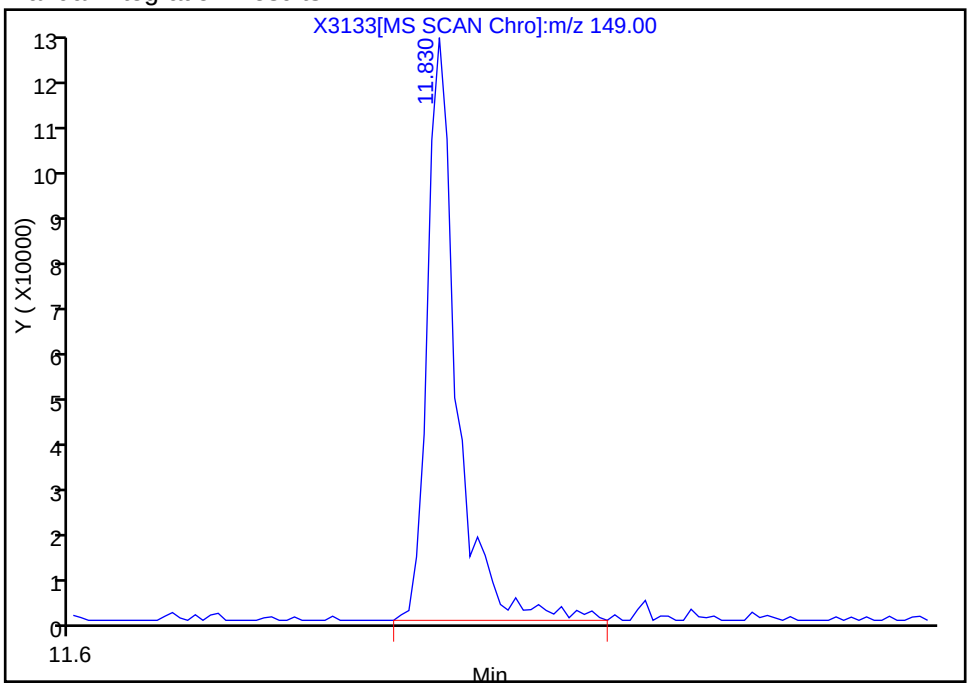
Processing Integration Results

RT: 11.83
Response: 137280
Amount: 0.987183



Manual Integration Results

RT: 11.83
Response: 157267
Amount: 1.058600



Reviewer: mckernar, 18-Dec-2012 13:05:29
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

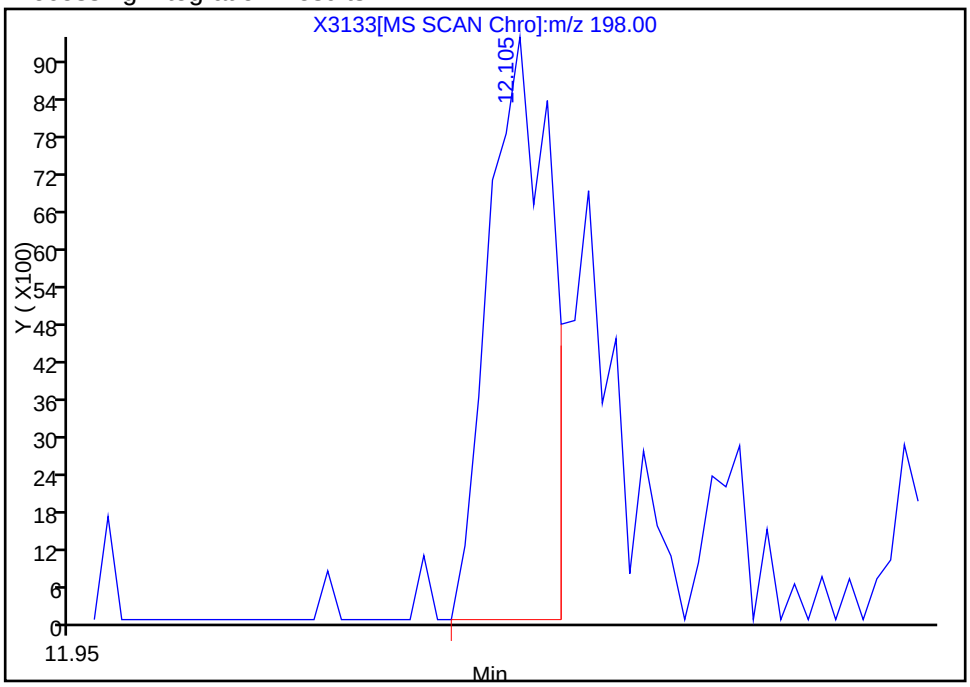
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3133.D		
Injection Date:	18-Dec-2012 12:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

82 4,6-Dinitro-2-methylphenol, Signal: 1, m/z: 198.0 Type: quant, RT: 12.08

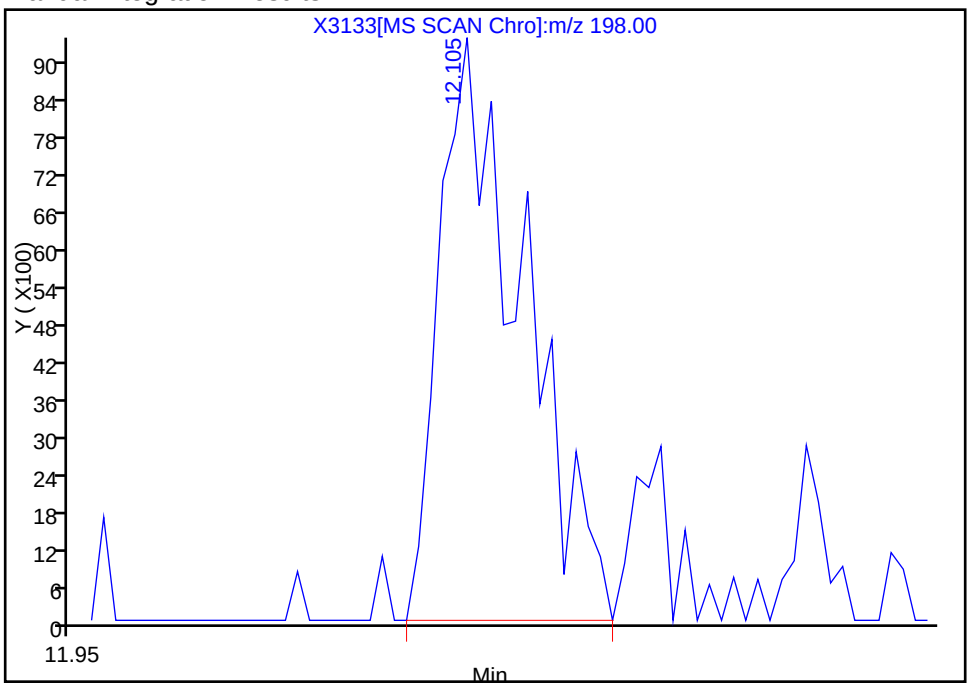
Processing Integration Results

RT: 12.11
Response: 13868
Amount: 1.753691



Manual Integration Results

RT: 12.11
Response: 21166
Amount: 1.865143



Reviewer: mckernar, 18-Dec-2012 13:05:29
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

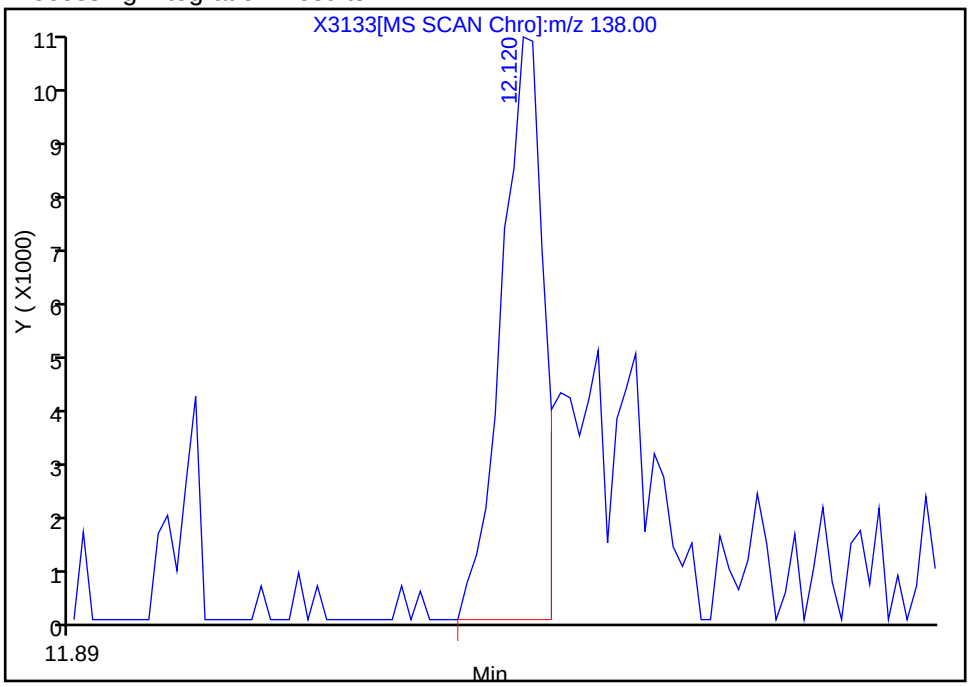
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3133.D		
Injection Date:	18-Dec-2012 12:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

81 4-Nitroaniline, Signal: 1, m/z: 138.0 Type: quant, RT: 12.07

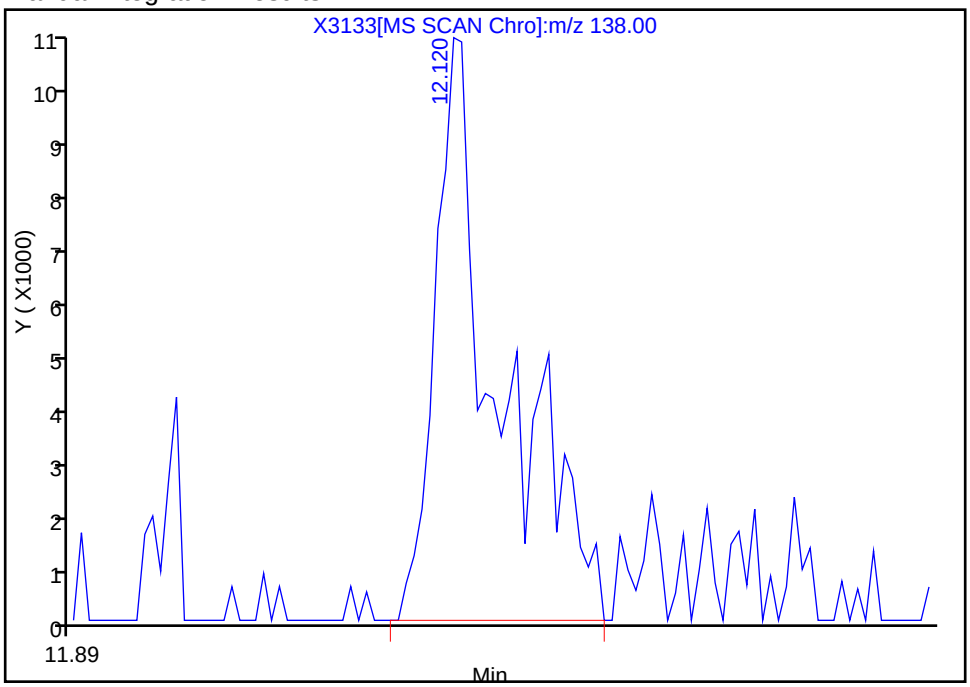
Processing Integration Results

RT: 12.12
Response: 15827
Amount: 1.856963



Manual Integration Results

RT: 12.12
Response: 28981
Amount: 1.227024



Reviewer: mckernar, 18-Dec-2012 13:05:29
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:03 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

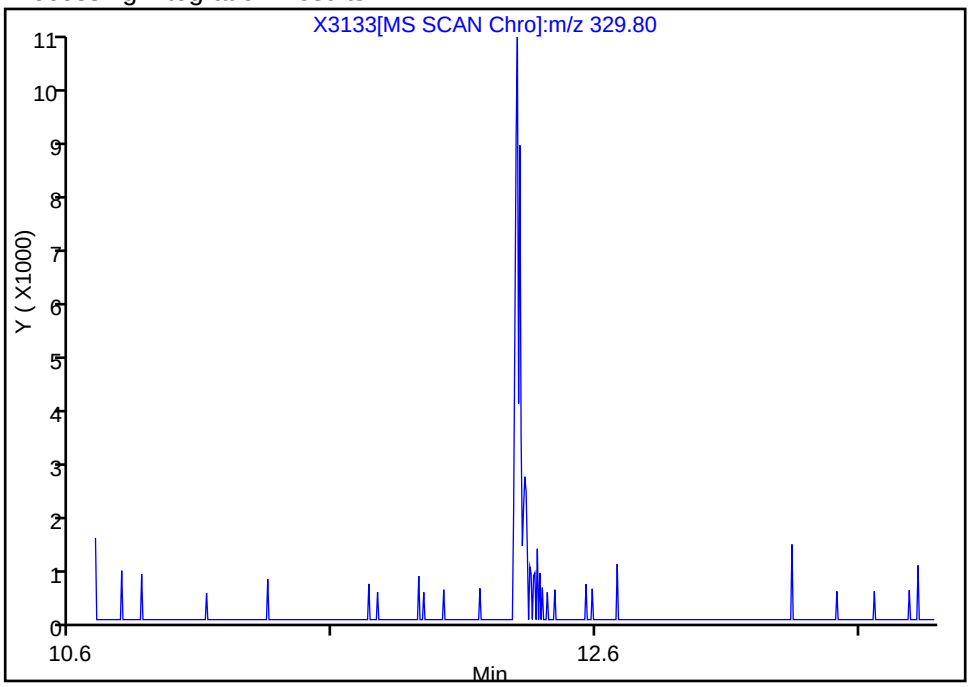
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3133.D		
Injection Date:	18-Dec-2012 12:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

$ 11 2,4,6-Tribromophenol, Signal: 1, m/z: 329.8 Type: quant, RT: 12.29

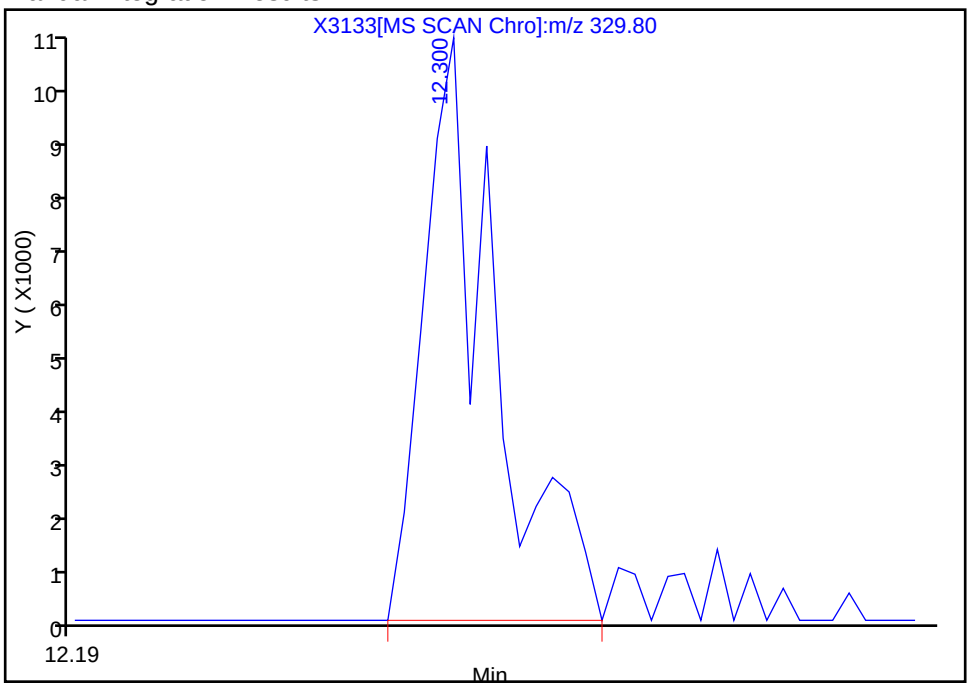
Processing Integration Results

Not Detected
Expected RT: 12.29



Manual Integration Results

RT: 12.30
Response: 15302
Amount: 0.869511



Reviewer: mckernar, 18-Dec-2012 13:05:29
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:03 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

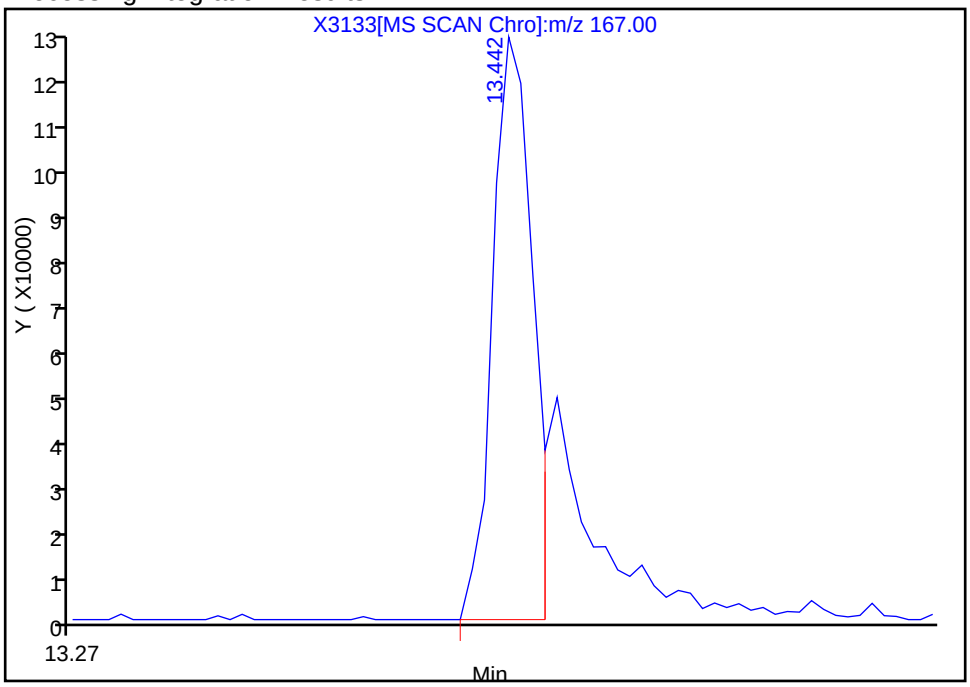
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3133.D		
Injection Date:	18-Dec-2012 12:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

99 Carbazole, Signal: 1, m/z: 167.0 Type: quant, RT: 13.43

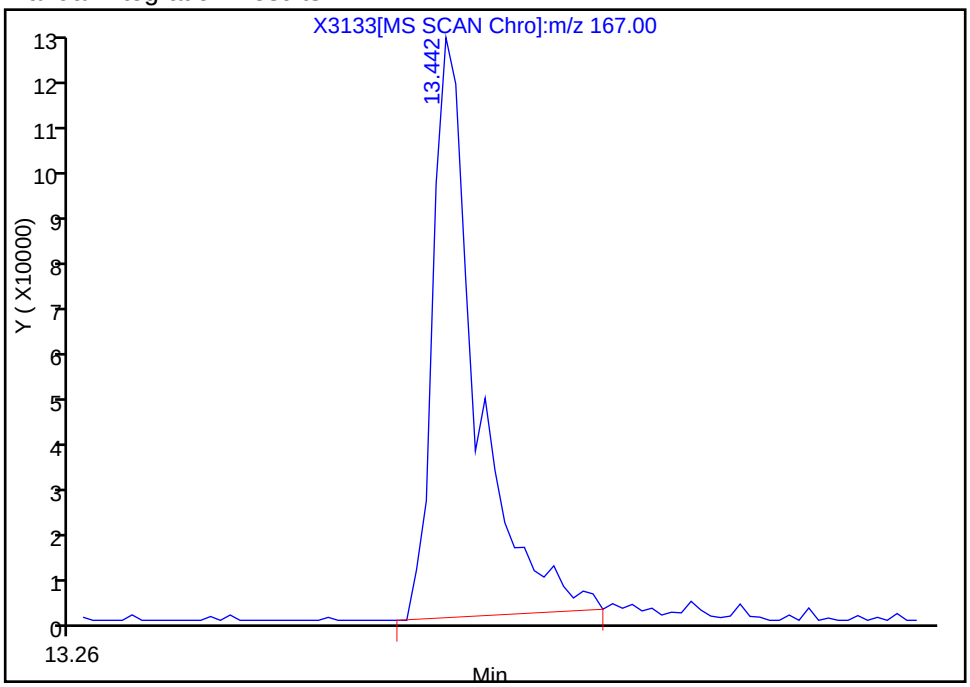
Processing Integration Results

RT: 13.44
Response: 142069
Amount: 0.836724



Manual Integration Results

RT: 13.44
Response: 190469
Amount: 0.945934



Reviewer: mckernar, 18-Dec-2012 13:05:29
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

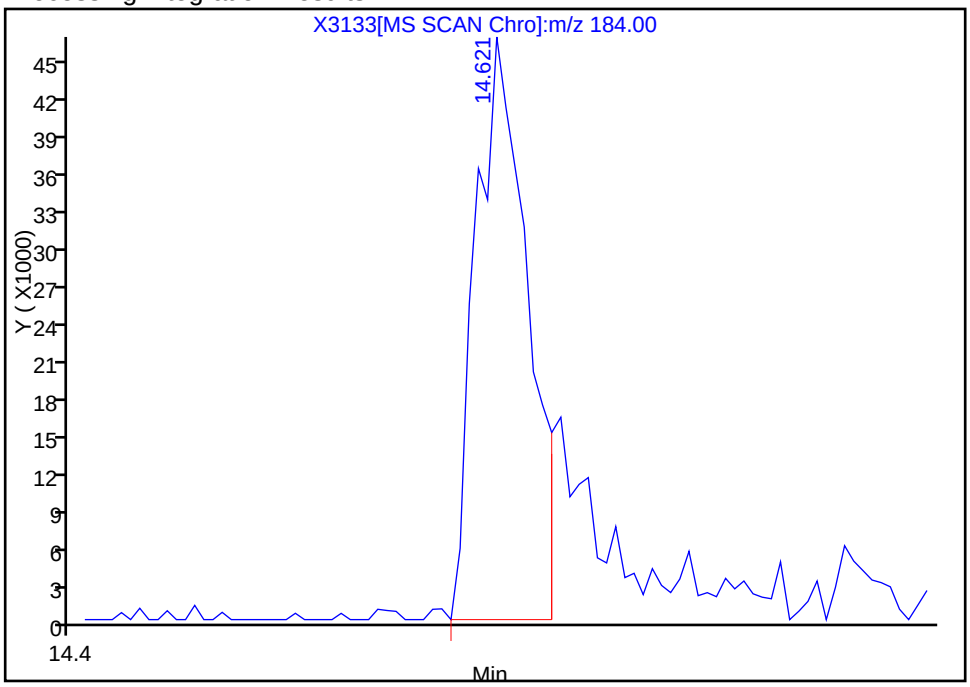
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3133.D		
Injection Date:	18-Dec-2012 12:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

105 Benzidine, Signal: 1, m/z: 184.0 Type: quant, RT: 14.60

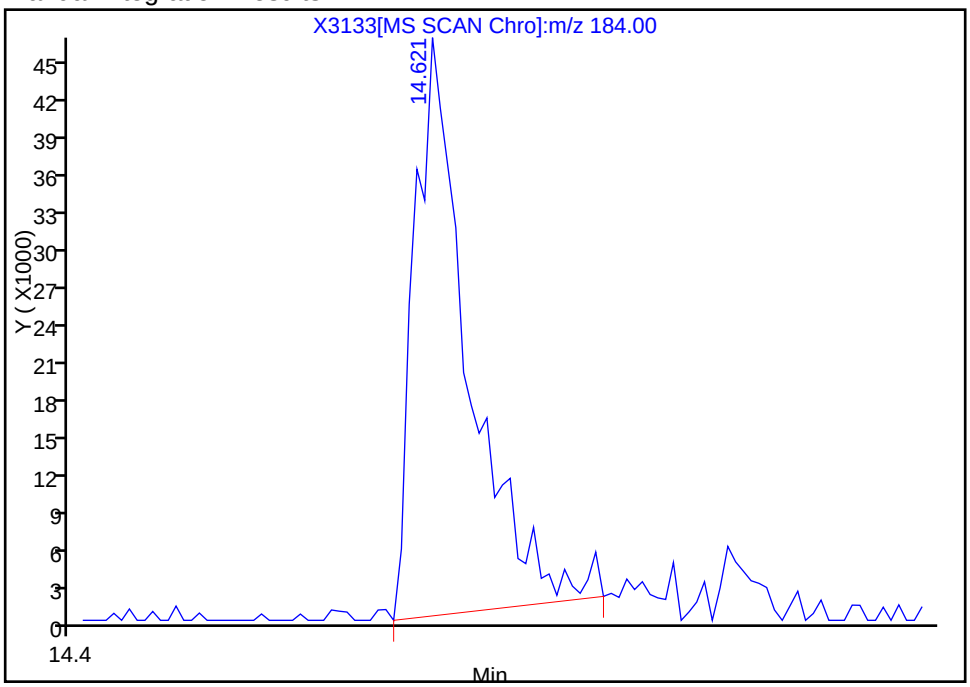
Processing Integration Results

RT: 14.62
Response: 88148
Amount: 1.000000



Manual Integration Results

RT: 14.62
Response: 107316
Amount: 1.177353



Reviewer: mckernar, 18-Dec-2012 13:05:29
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:03 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

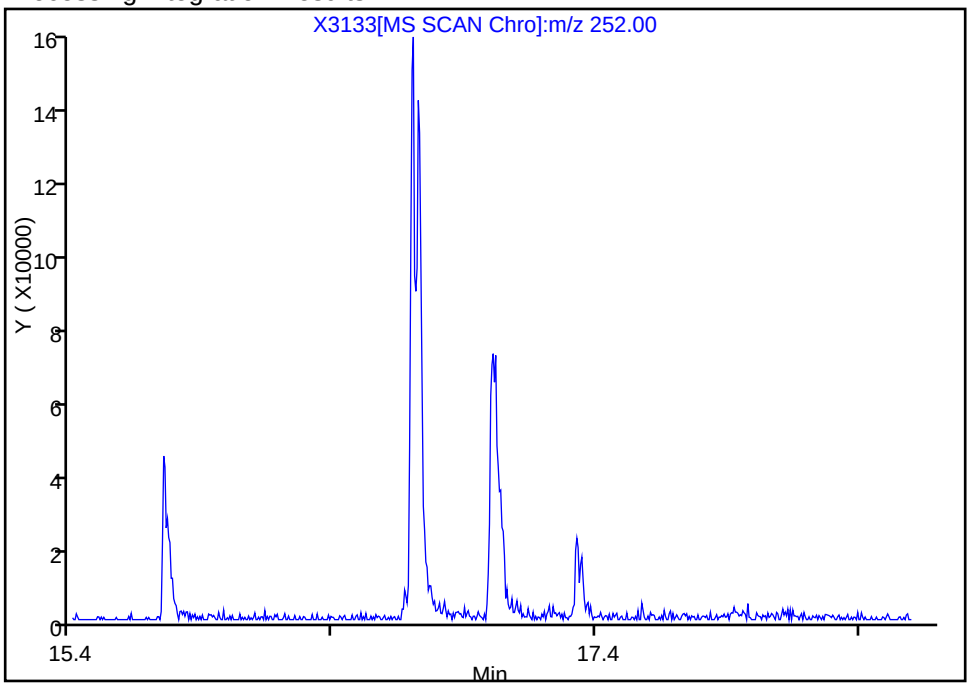
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3133.D		
Injection Date:	18-Dec-2012 12:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

116 Benzo[a]pyrene, Signal: 1, m/z: 252.0 Type: quant, RT: 17.00

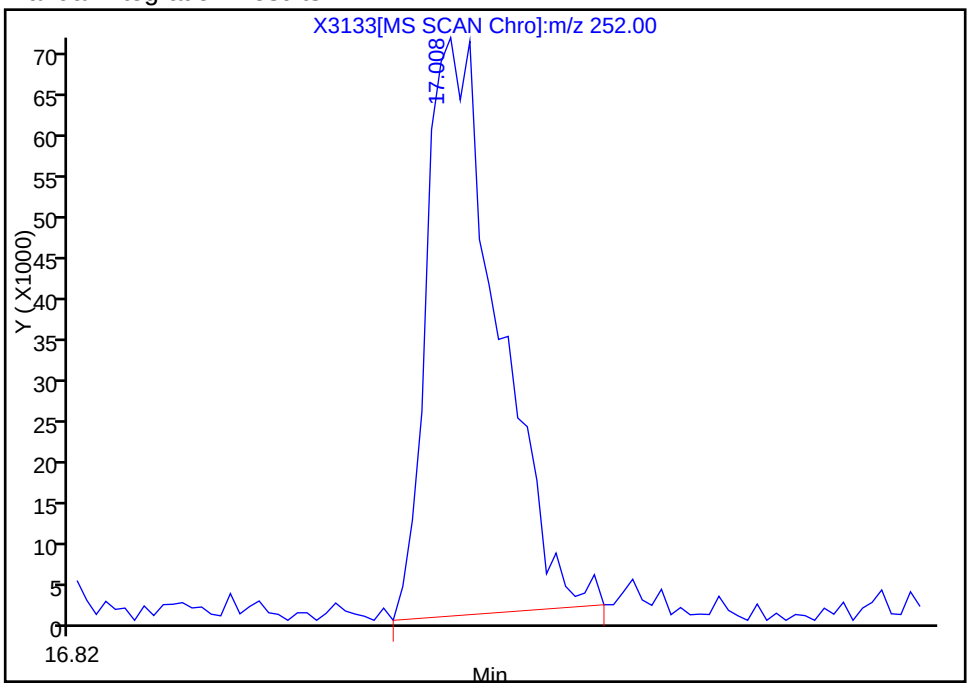
Processing Integration Results

Not Detected
Expected RT: 17.00



Manual Integration Results

RT: 17.01
Response: 174699
Amount: 0.936152



Reviewer: mckernar, 18-Dec-2012 13:05:29
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

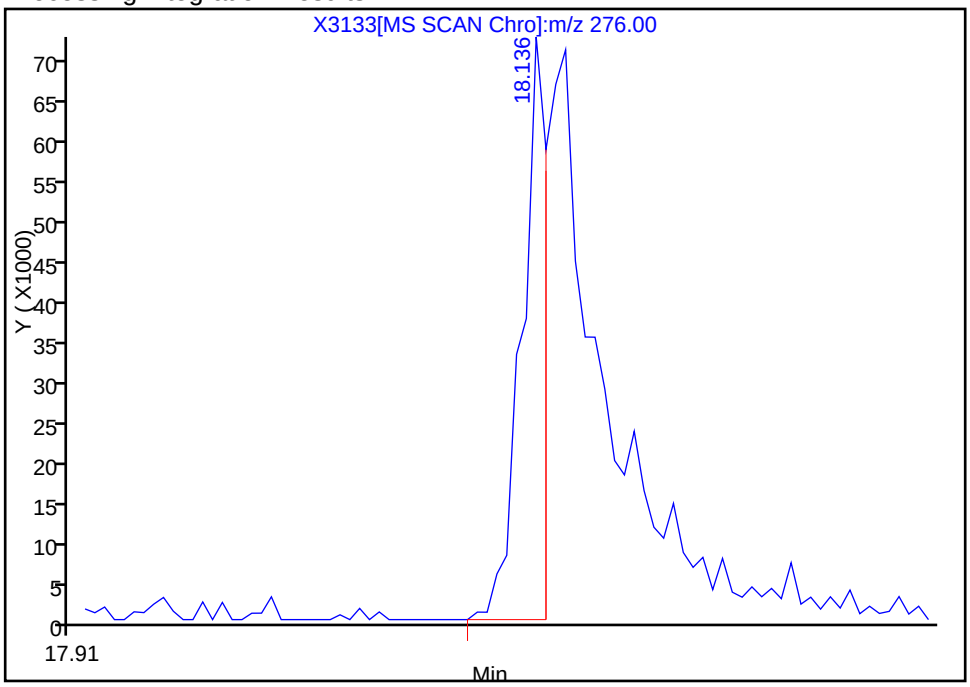
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3133.D		
Injection Date:	18-Dec-2012 12:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

117 Indeno[1,2,3-cd]pyrene, Signal: 1, m/z: 276.0 Type: quant, RT: 18.15

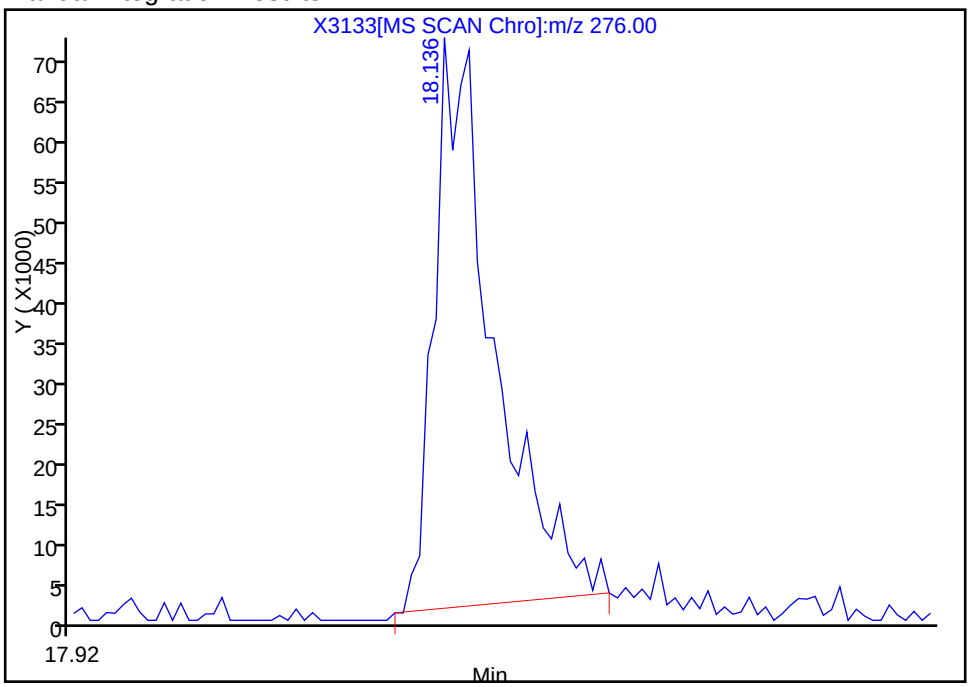
Processing Integration Results

RT: 18.14
Response: 61656
Amount: 0.467301



Manual Integration Results

RT: 18.14
Response: 167625
Amount: 0.841635



Reviewer: mckernar, 18-Dec-2012 13:05:29
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:03 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

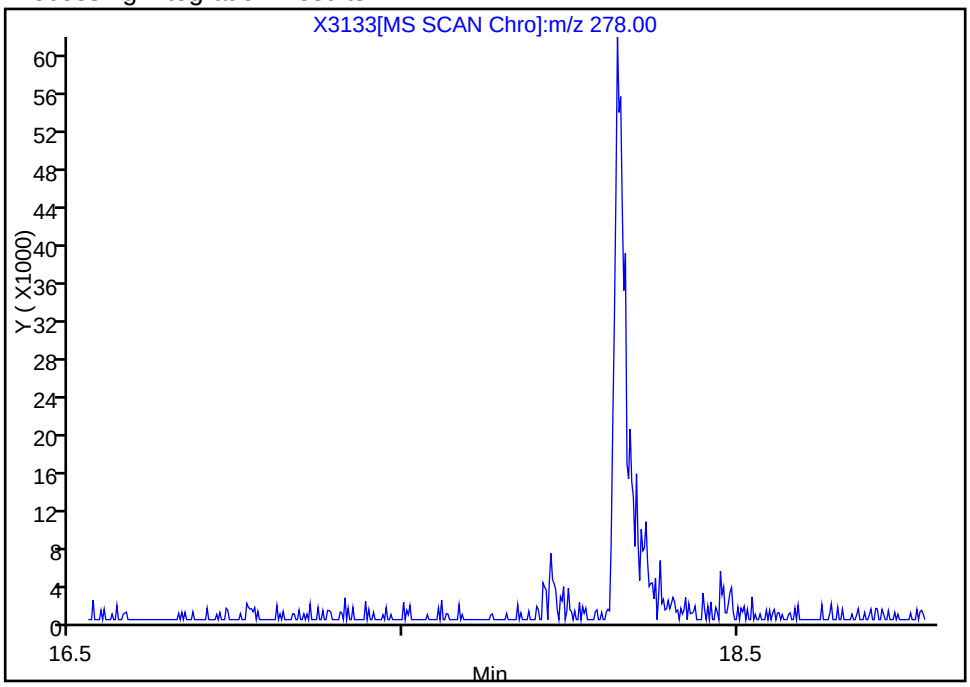
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3133.D		
Injection Date:	18-Dec-2012 12:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

118 Dibenz(a,h)anthracene, Signal: 1, m/z: 278.0 Type: quant, RT: 18.15

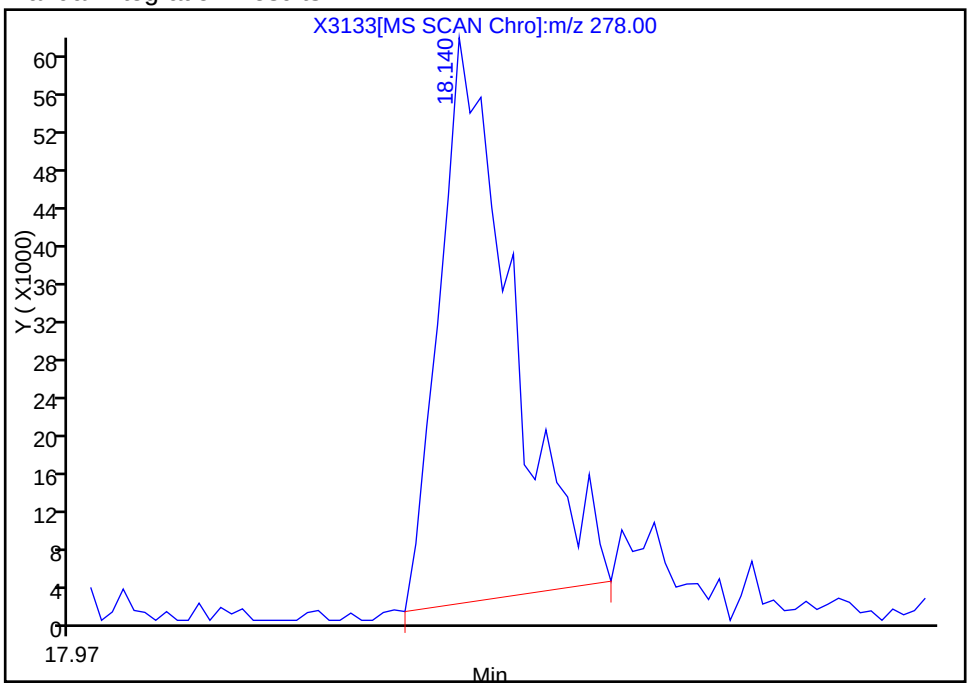
Processing Integration Results

Not Detected
Expected RT: 18.15



Manual Integration Results

RT: 18.14
Response: 129231
Amount: 0.764516



Reviewer: mckernar, 18-Dec-2012 13:05:29
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:04 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

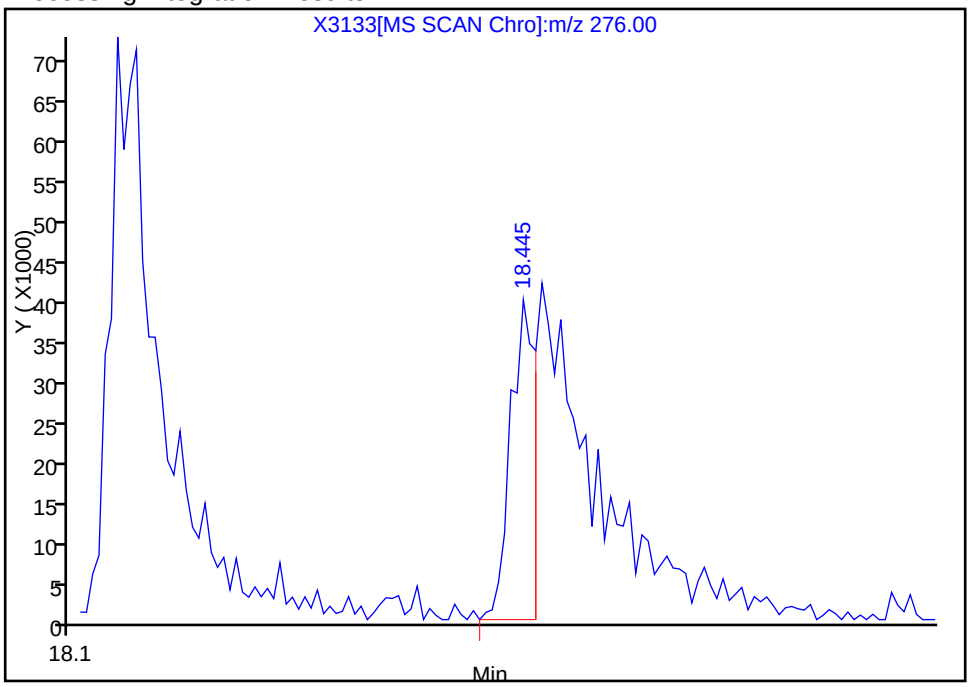
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3133.D		
Injection Date:	18-Dec-2012 12:11:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	4
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

119 Benzo[g,h,i]perylene, Signal: 1, m/z: 276.0 Type: quant, RT: 18.47

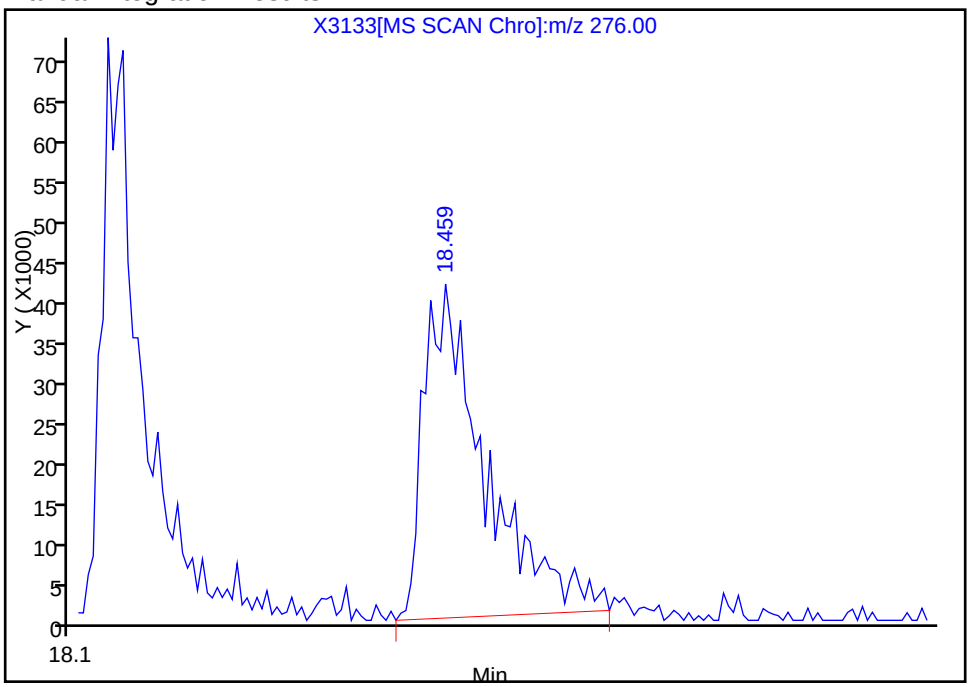
Processing Integration Results

RT: 18.44
Response: 51660
Amount: 0.499874



Manual Integration Results

RT: 18.46
Response: 168957
Amount: 1.016623



Reviewer: mckernar, 18-Dec-2012 13:05:29
Audit Action: Manually Integrated
Audit Reason: Assign Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3134.D		
Lims ID:	IC - 2.5	Client ID:	
Inject. Date:	18-Dec-2012 12:36:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	480-0017654-005		
Misc. Info.:			
Operator:	ANM	Instrument ID:	HP5973X
Injection Vol:	1.0 ul	ALS Bottle#:	6
Lims Batch ID:	96347	Lims Sample ID:	5
Sublist:	chrom-X-8270LL*sub20		
Detector:	MS SCAN		

Method:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X-8270LL.m		
Last Update:	18-Dec-2012 16:43:06	Calib Date:	18-Dec-2012 14:44:30
Quant Method:	Internal Standard	Quant By:	Continuing Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3139.D		
Limit Group:	MB - 8270RCP_MCP ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm
Process Host:	XAWRK017		

First Level Reviewer: mckernar Date: 18-Dec-2012 16:43:06

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.594	6.594	0.0	85	196485	5.00	
* 2 Naphthalene-d8	136	8.486	8.486	0.0	97	777218	5.00	
* 3 Acenaphthene-d10	164	11.116	11.116	0.0	86	498099	5.00	
* 4 Phenanthrene-d10	188	13.128	13.128	0.0	94	831985	5.00	
* 5 Chrysene-d12	240	15.767	15.767	0.0	93	773124	5.00	
* 6 Perylene-d12	264	17.051	17.051	0.0	97	742660	5.00	
$ 7 2-Fluorophenol	112	4.701	4.701	0.0	66	111406	2.50	
$ 8 Phenol-d5	99	6.118	6.118	0.0	84	134813	2.48	
$ 9 Nitrobenzene-d5	82	7.435	7.435	0.0	87	149020	2.56	
$ 10 2-Fluorobiphenyl	172	10.127	10.127	0.0	93	327537	2.62	
$ 11 2,4,6-Tribromophenol	330	12.291	12.291	0.0	34	37478	2.45	
$ 12 p-Terphenyl-d14	244	14.802	14.802	0.0	92	381301	2.56	
18 1,4-Dioxane	88	2.466	2.466	0.0	65	51855	2.47	M
19 N-Nitrosodimethylamine	42	2.813	2.813	0.0	59	92572	2.58	M
20 Pyridine	52	2.908	2.908	0.0	55	100467	2.76	M
21 Benzaldehyde	77	5.961	5.961	0.0	87	113145	2.94	
23 Aniline	93	6.128	6.128	0.0	92	203774	2.83	
22 Phenol	94	6.142	6.142	0.0	44	163955	2.74	M
24 Bis(2-chloroethyl)ether	93	6.223	6.223	0.0	91	124678	2.65	
25 2-Chlorophenol	128	6.294	6.294	0.0	94	139058	2.73	
26 1,3-Dichlorobenzene	146	6.503	6.503	0.0	94	167759	2.66	
27 1,4-Dichlorobenzene	146	6.622	6.622	0.0	69	182861	2.90	
29 1,2-Dichlorobenzene	146	6.841	6.841	0.0	81	166114	2.83	
28 Benzyl alcohol	108	6.846	6.846	0.0	68	51260	3.22	M
32 2,2'-oxybis[1-chloropropane]	45	7.022	7.022	0.0	71	206722	2.70	
31 2-Methylphenol	108	7.031	7.031	0.0	66	114323	2.68	
33 Acetophenone	105	7.212	7.212	0.0	89	194399	2.67	
34 N-Nitrosodi-n-propylamine	70	7.217	7.217	0.0	87	99867	2.73	
36 4-Methylphenol	108	7.288	7.288	0.0	73	102383	2.37	M

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
37 Hexachloroethane	117	7.331	7.331	0.0	92	73168	2.89	
38 Nitrobenzene	77	7.464	7.464	0.0	78	166093	2.75	
40 Isophorone	82	7.821	7.821	0.0	75	248371	2.50	
41 2-Nitrophenol	139	7.939	7.939	0.0	93	67259	2.44	
43 2,4-Dimethylphenol	107	8.058	8.058	0.0	84	135144	2.60	M
45 Bis(2-chloroethoxy)methane	93	8.177	8.177	0.0	93	150792	2.56	
44 Benzoic acid	105	8.268	8.268	0.0	84	89300	3.85	M
47 2,4-Dichlorophenol	162	8.358	8.358	0.0	0	111825	2.65	M
48 1,2,4-Trichlorobenzene	180	8.410	8.410	0.0	92	128556	2.48	
49 Naphthalene	128	8.520	8.520	0.0	91	448321	2.60	
51 4-Chloroaniline	127	8.662	8.662	0.0	91	156755	2.52	M
52 Hexachlorobutadiene	225	8.710	8.710	0.0	74	77304	2.72	
54 Caprolactam	113	9.209	9.209	0.0	61	45612	2.97	M
55 4-Chloro-3-methylphenol	107	9.466	9.466	0.0	60	135114	2.89	M
56 2-Methylnaphthalene	142	9.566	9.566	0.0	76	307828	2.55	
57 1-Methylnaphthalene	142	9.709	9.709	0.0	88	285503	2.57	
58 Hexachlorocyclopentadiene	237	9.794	9.794	0.0	68	25663	1.58	
59 1,2,4,5-Tetrachlorobenzene	216	9.818	9.818	0.0	85	136160	2.91	
60 2,4,6-Trichlorophenol	196	10.037	10.037	0.0	76	72851	2.53	M
61 2,4,5-Trichlorophenol	196	10.146	10.146	0.0	72	73198	2.63	M
62 1,1'-Biphenyl	154	10.274	10.274	0.0	98	378332	2.63	
63 2-Chloronaphthalene	162	10.317	10.317	0.0	88	323689	2.53	
64 Phenyl ether	170	10.436	10.436	0.0	90	206565	2.64	
65 2-Nitroaniline	65	10.512	10.512	0.0	82	71533	2.17	
66 1,4-Dinitrobenzene	75	10.755	10.755	0.0	76	62491	0	M
67 Dimethyl phthalate	163	10.779	10.779	0.0	88	340849	2.64	
68 2,6-Dinitrotoluene	165	10.864	10.864	0.0	88	146693	2.51	
69 Acenaphthylene	152	10.907	10.907	0.0	81	462652	2.66	
70 3-Nitroaniline	138	11.159	11.159	0.0	1	74904	2.58	M
71 Acenaphthene	153	11.169	11.169	0.0	89	302406	2.49	
72 2,4-Dinitrophenol	184	11.349	11.349	0.0	40	35900	3.89	M
73 Dibenzofuran	168	11.440	11.440	0.0	98	406272	2.75	
74 2,4-Dinitrotoluene	165	11.492	11.492	0.0	1	82195	2.20	
75 4-Nitrophenol	109	11.611	11.611	0.0	26	117392	4.71	M
76 2,3,4,6-Tetrachlorophenol	232	11.668	11.668	0.0	68	68881	3.08	M
78 Diethyl phthalate	149	11.825	11.825	0.0	93	375633	2.66	
79 Fluorene	166	11.934	11.934	0.0	94	356637	2.63	
80 4-Chlorophenyl phenyl ether	204	11.953	11.953	0.0	84	144079	2.40	
81 4-Nitroaniline	138	12.067	12.067	0.0	77	71047	2.52	M
82 4,6-Dinitro-2-methylphenol	198	12.082	12.082	0.0	62	63572	3.78	
84 Diphenylamine	169	12.124	12.124	0.0	96	553188	2.86	
83 N-Nitrosodiphenylamine	169	12.124	12.124	0.0	96	553188	2.86	
16 1,2-Diphenylhydrazine	77	12.167	12.167	0.0	94	326470	2.61	
85 Azobenzene	77	12.167	12.167	0.0	95	326470	2.62	
86 Benzophenone	105	12.191	12.191	0.0	97	328414	2.77	
89 4-Bromophenyl phenyl ether	248	12.595	12.595	0.0	82	81359	2.61	
91 Hexachlorobenzene	284	12.652	12.652	0.0	69	87913	2.72	
92 Simazine	201	12.809	12.809	0.0	76	42920	0	
93 Atrazine	200	12.838	12.838	0.0	78	191176	5.10	
95 Pentachloronitrobenzene	237	12.923	12.923	0.0	56	34231	2.23	
94 Pentachlorophenol	266	12.933	12.933	0.0	52	54999	4.13	
97 Phenanthrene	178	13.156	13.156	0.0	92	518661	2.80	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
98 Anthracene	178	13.218	13.218	0.0	94	507614	2.69	
99 Carbazole	167	13.427	13.427	0.0	98	459119	2.62	
101 Alachlor	160	13.565	13.565	0.0	88	93462	0	
102 Di-n-butyl phthalate	149	13.803	13.803	0.0	96	589349	2.90	
104 Fluoranthene	202	14.431	14.431	0.0	96	506028	2.76	
105 Benzidine	184	14.597	14.597	0.0	99	241214	2.82	
106 Pyrene	202	14.654	14.654	0.0	97	527811	2.55	
107 Famphur	218	15.201	15.201	0.0	79	177139	0	
108 Butyl benzyl phthalate	149	15.244	15.244	0.0	92	281281	2.46	
110 Bis(2-ethylhexyl) phthalate	149	15.734	15.734	0.0	95	384752	2.44	
109 3,3'-Dichlorobenzidine	252	15.743	15.743	0.0	81	174974	2.52	
111 Benzo[a]anthracene	228	15.753	15.753	0.0	93	384718	2.31	
112 Chrysene	228	15.791	15.791	0.0	87	491288	2.60	
113 Di-n-octyl phthalate	149	16.271	16.271	0.0	97	617182	2.48	
114 Benzo[b]fluoranthene	252	16.695	16.695	0.0	90	421949	2.45	
115 Benzo[k]fluoranthene	252	16.718	16.718	0.0	99	489235	2.75	
116 Benzo[a]pyrene	252	17.004	17.004	0.0	69	433943	2.60	
118 Dibenz(a,h)anthracene	278	18.150	18.150	0.0	47	361538	2.39	M
117 Indeno[1,2,3-cd]pyrene	276	18.150	18.150	0.0	93	413973	2.33	
119 Benzo[g,h,i]perylene	276	18.468	18.468	0.0	89	331317	2.23	M
S 121 3-Methylphenol	1		0.000					

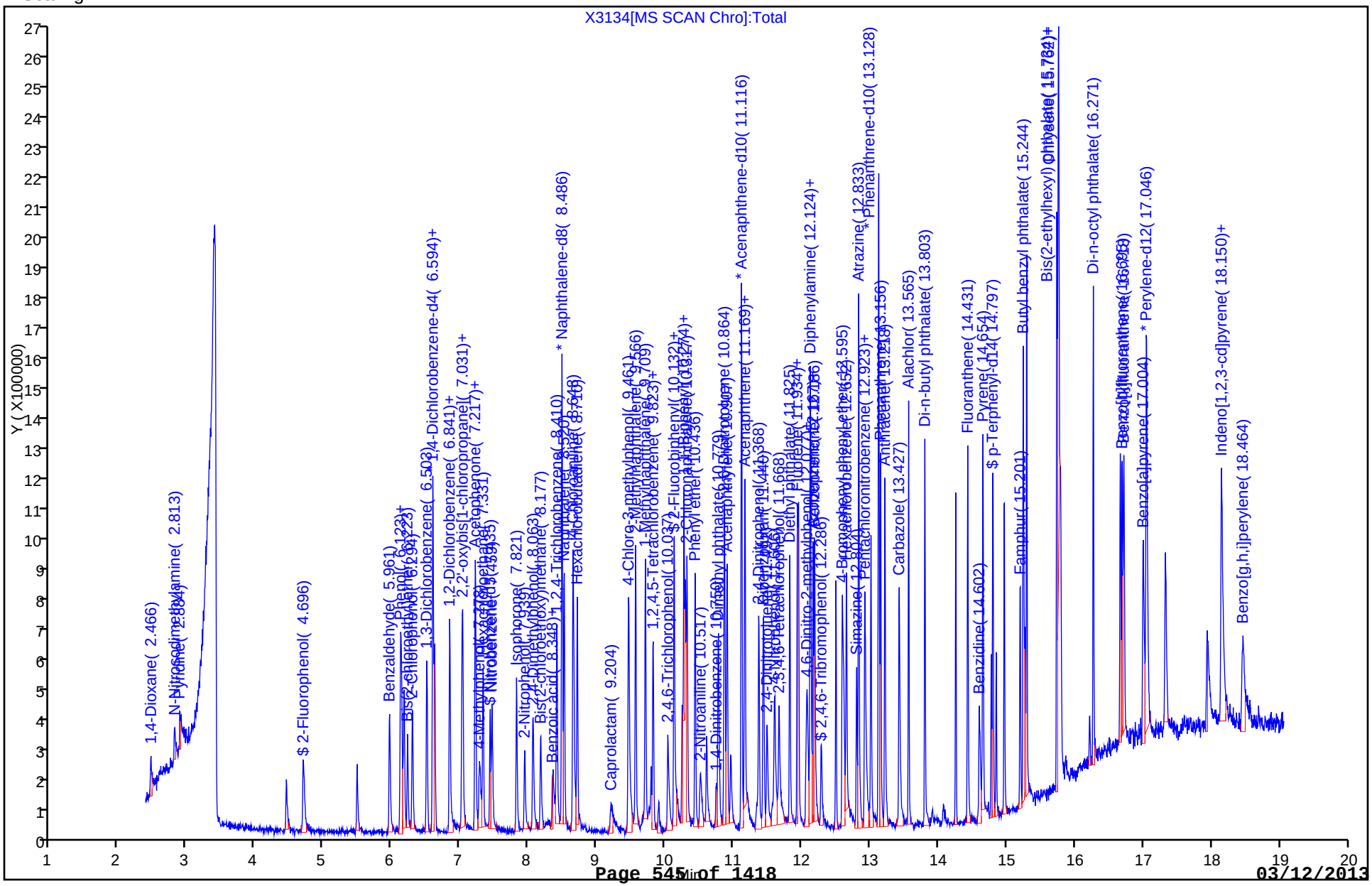
QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 18-Dec-2012 16:43:07 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3134.D		
Injection Date:	18-Dec-2012 12:36:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	5
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm
Y Scaling:			



Manual Integration/User Assign Peak Report

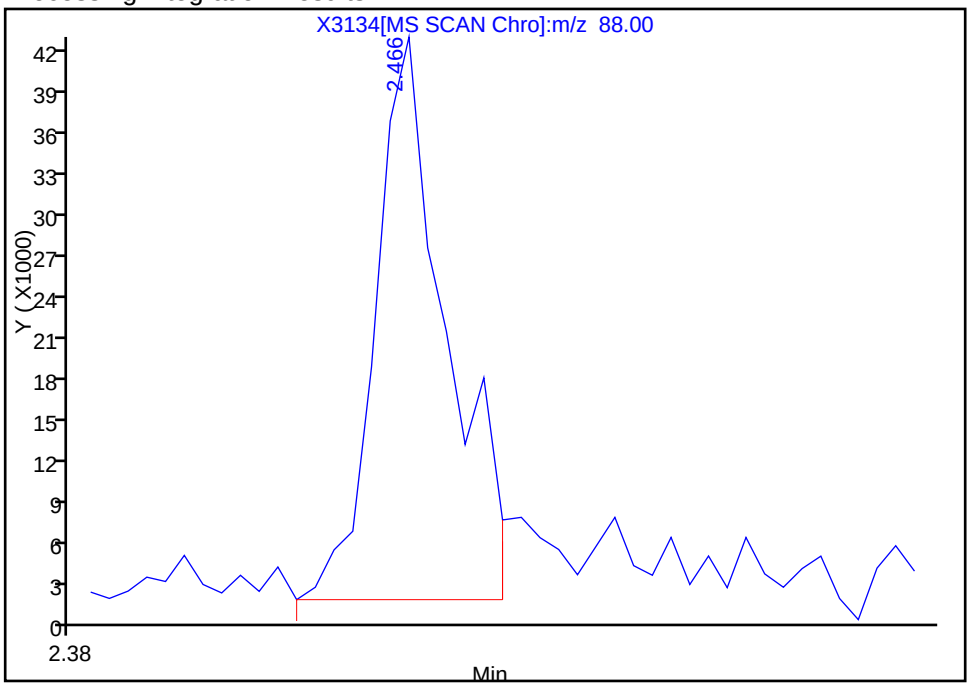
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3134.D		
Injection Date:	18-Dec-2012 12:36:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	5
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

18 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 2.47

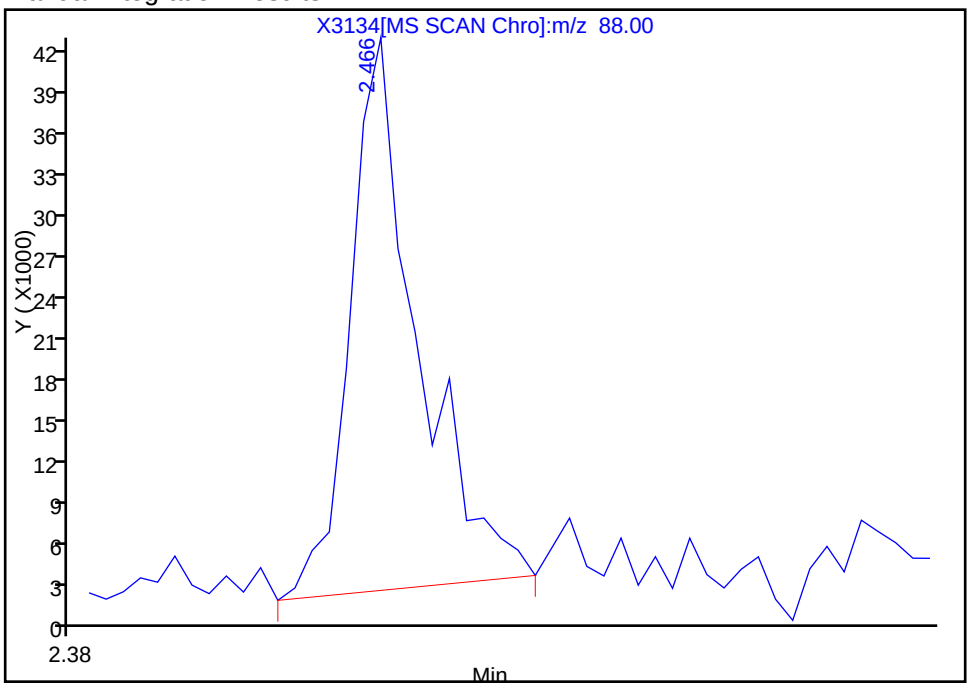
Processing Integration Results

RT: 2.47
Response: 51431
Amount: 1.549083



Manual Integration Results

RT: 2.47
Response: 51855
Amount: 2.470612



Reviewer: mckernar, 18-Dec-2012 13:08:06
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:07 Chrom Revision: 2.0 22-Oct-2012 16:30:48

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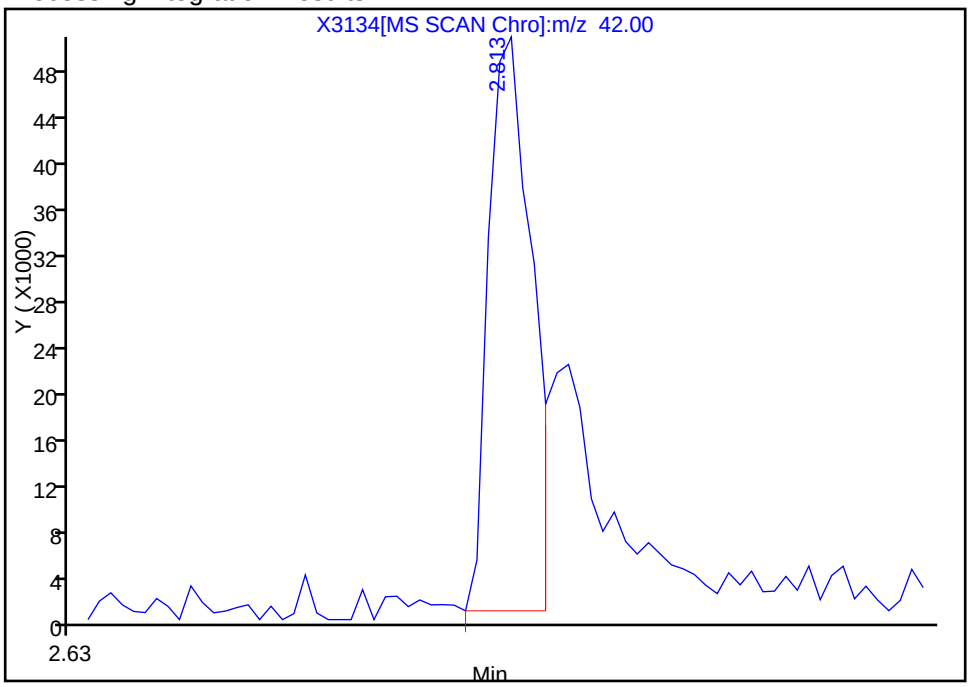
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	5
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

19 N-Nitrosodimethylamine, Signal: 1, m/z: 42.0 Type: quant, RT: 2.81

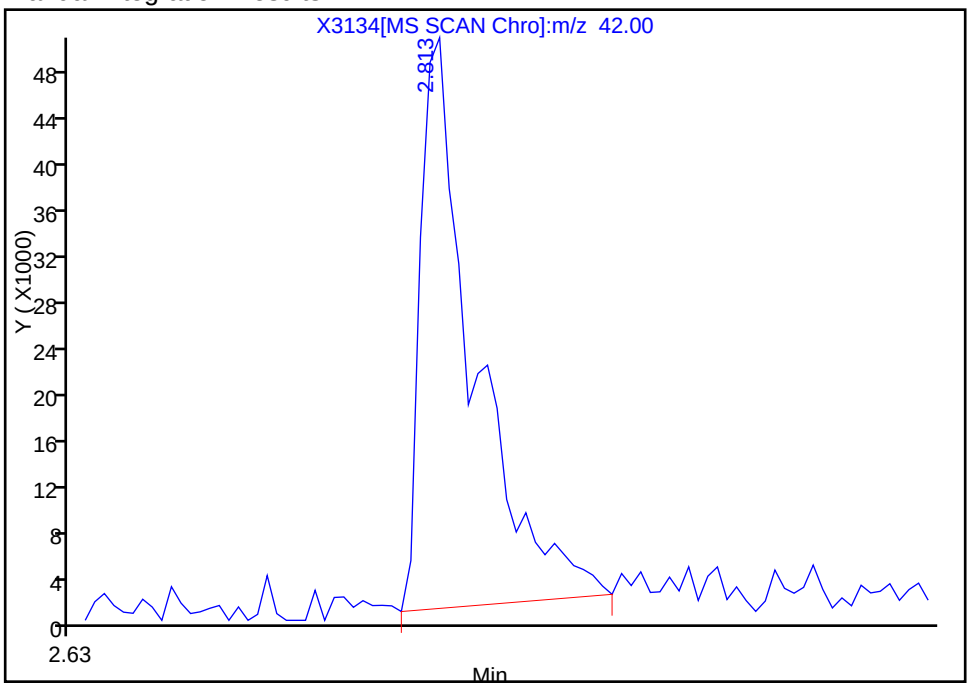
Processing Integration Results

RT: 2.81
Response: 62778
Amount: 1.983198



Manual Integration Results

RT: 2.81
Response: 92572
Amount: 2.578800



Reviewer: mckernar, 18-Dec-2012 13:08:06
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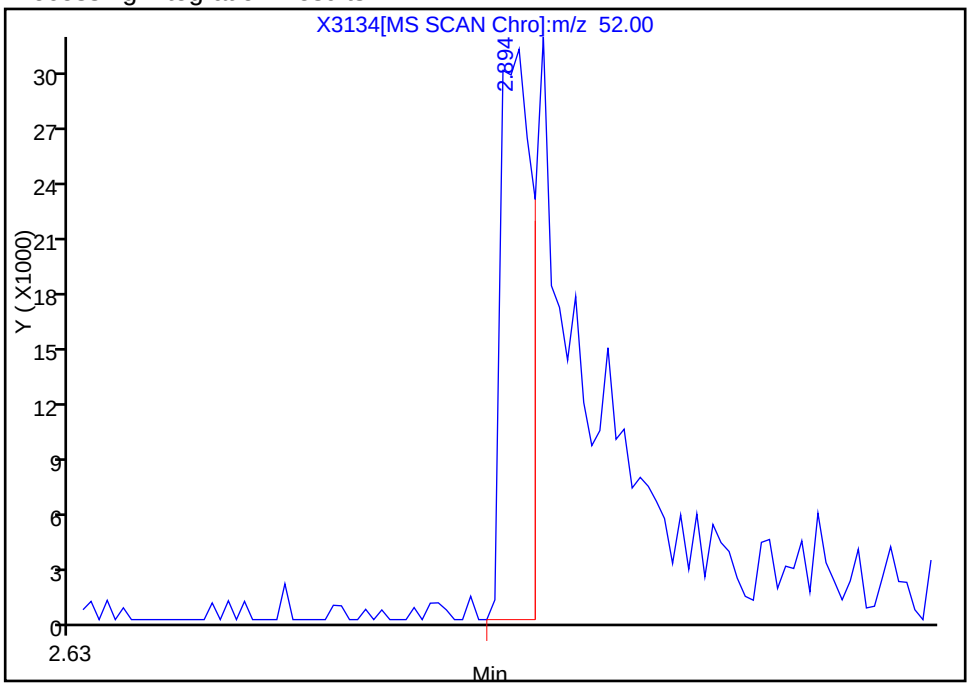
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	5
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

20 Pyridine, Signal: 1, m/z: 52.0 Type: quant, RT: 2.91

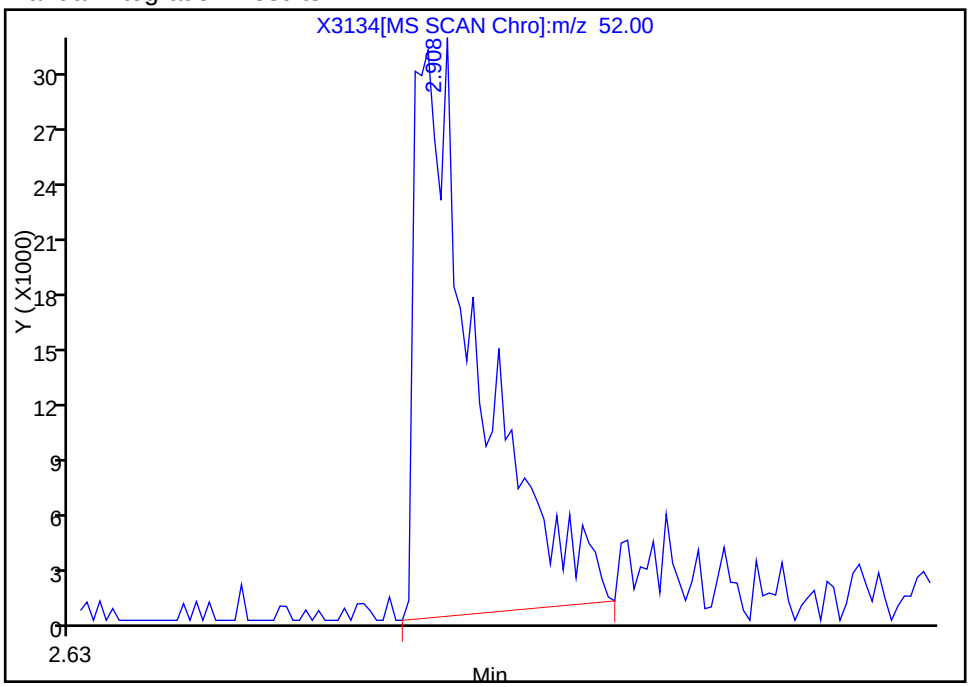
Processing Integration Results

RT: 2.89
Response: 39357
Amount: 1.507499



Manual Integration Results

RT: 2.91
Response: 100467
Amount: 2.756286



Reviewer: mckernar, 18-Dec-2012 13:08:06
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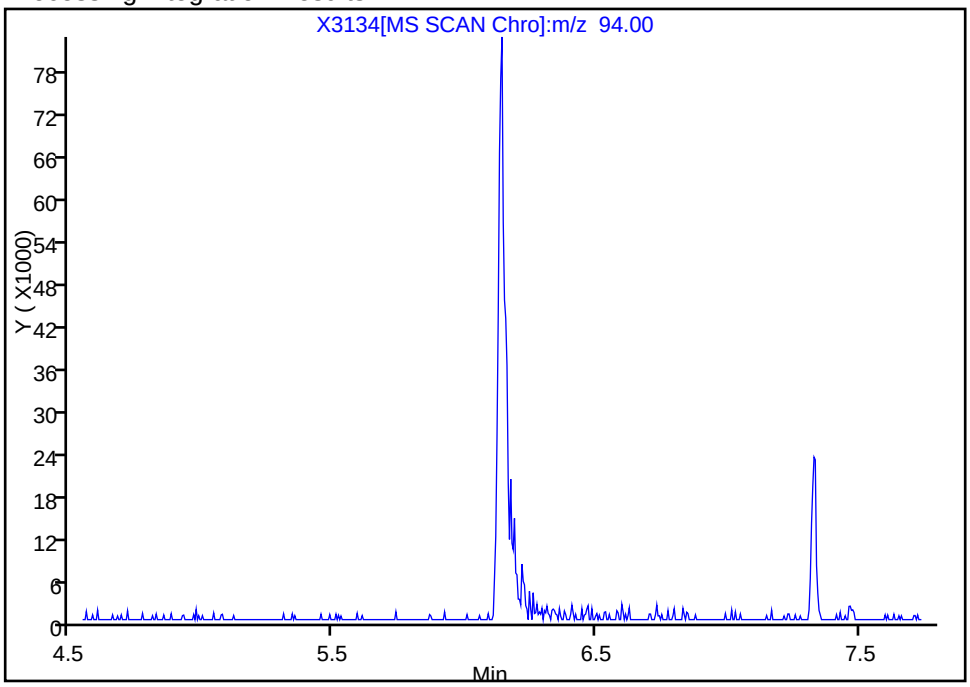
Injection Date:	18-Dec-2012 12:36:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	5
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

22 Phenol, Signal: 1, m/z: 94.0 Type: quant, RT: 6.14

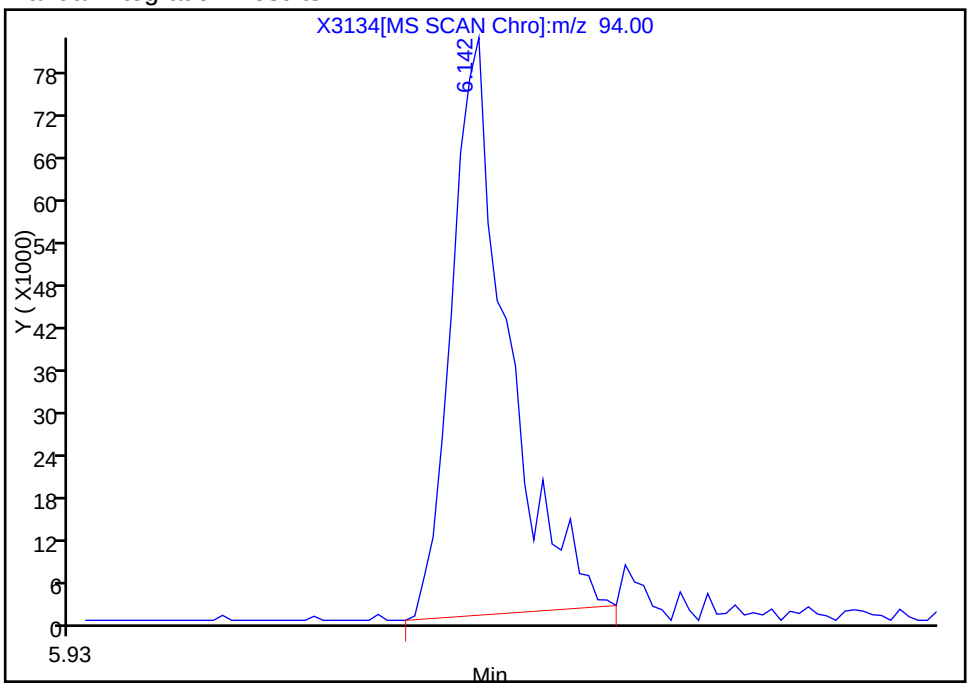
Processing Integration Results

Not Detected
Expected RT: 6.14



Manual Integration Results

RT: 6.14
Response: 163955
Amount: 2.739343



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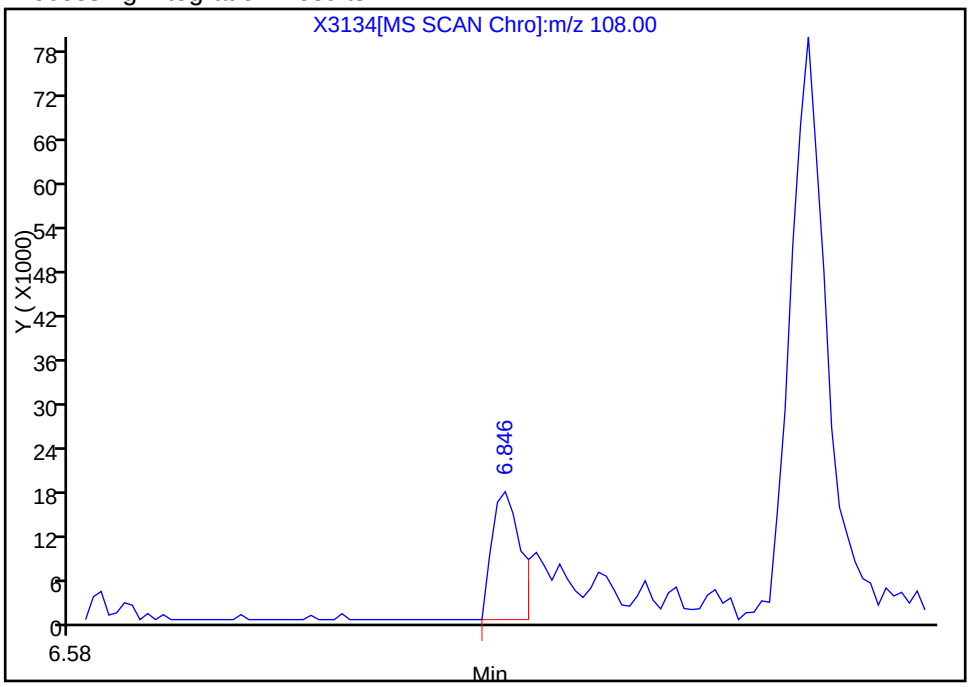
Injection Date:	18-Dec-2012 12:36:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	5
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

28 Benzyl alcohol, Signal: 1, m/z: 108.0 Type: quant, RT: 6.85

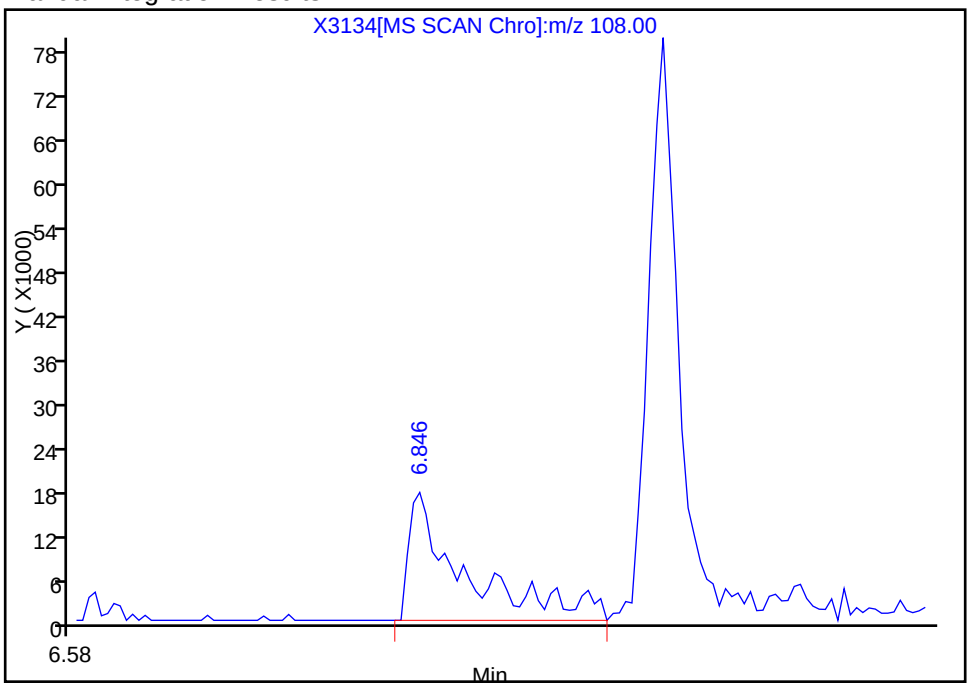
Processing Integration Results

RT: 6.85
Response: 21339
Amount: 4.282711



Manual Integration Results

RT: 6.85
Response: 51260
Amount: 3.215360



Reviewer: mckernar, 18-Dec-2012 13:08:06
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Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

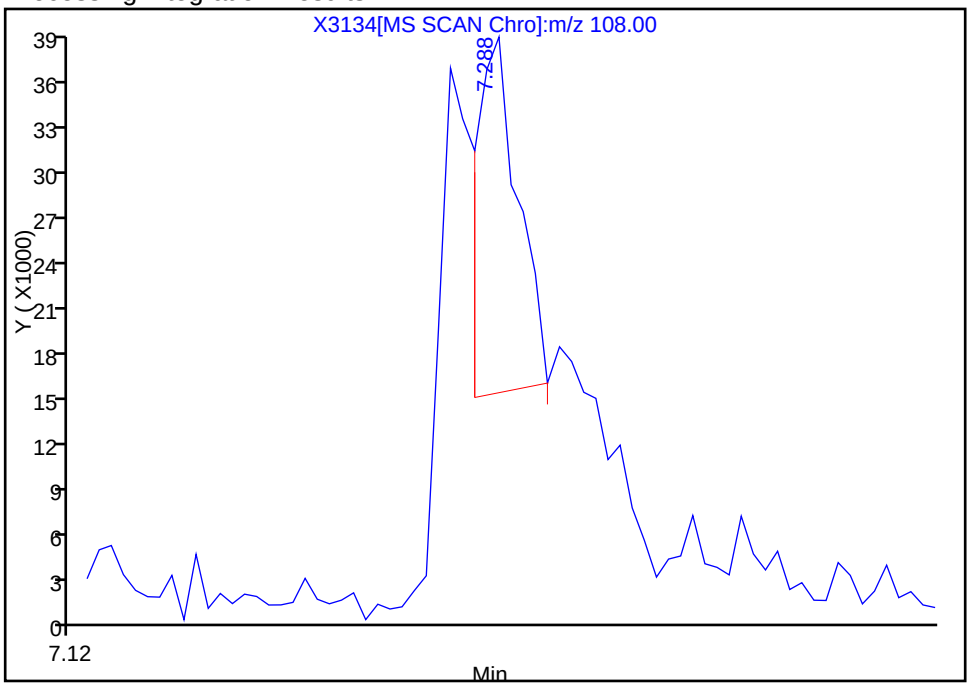
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3134.D		
Injection Date:	18-Dec-2012 12:36:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	5
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

36 4-Methylphenol, Signal: 1, m/z: 108.0 Type: quant, RT: 7.29

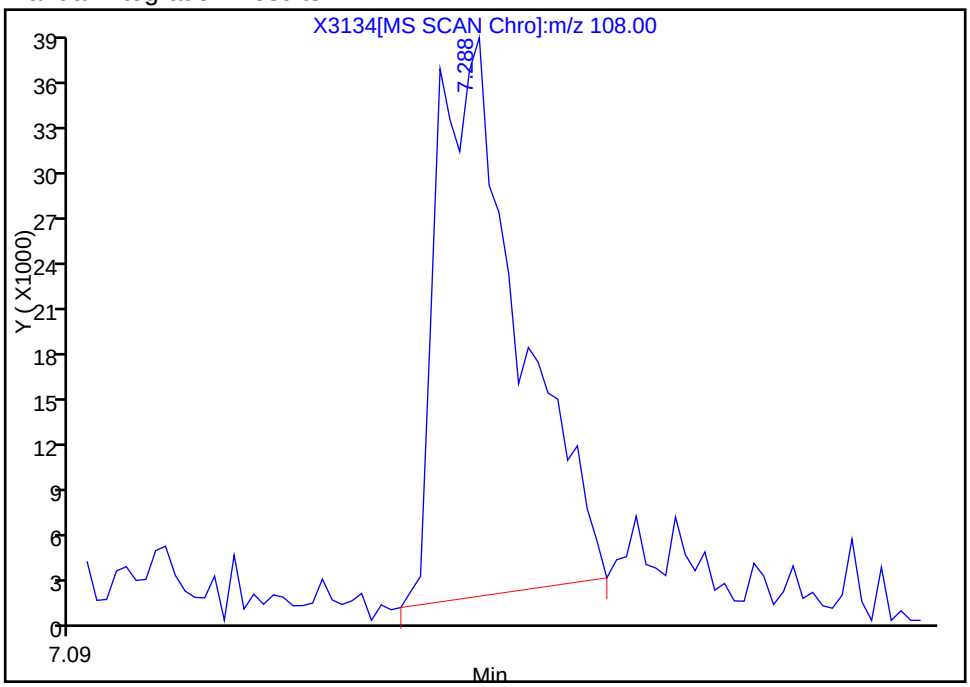
Processing Integration Results

RT: 7.29
Response: 26989
Amount: 1.177715



Manual Integration Results

RT: 7.29
Response: 102383
Amount: 2.366947



Reviewer: mckernar, 18-Dec-2012 13:08:06
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Manual Integration/User Assign Peak Report

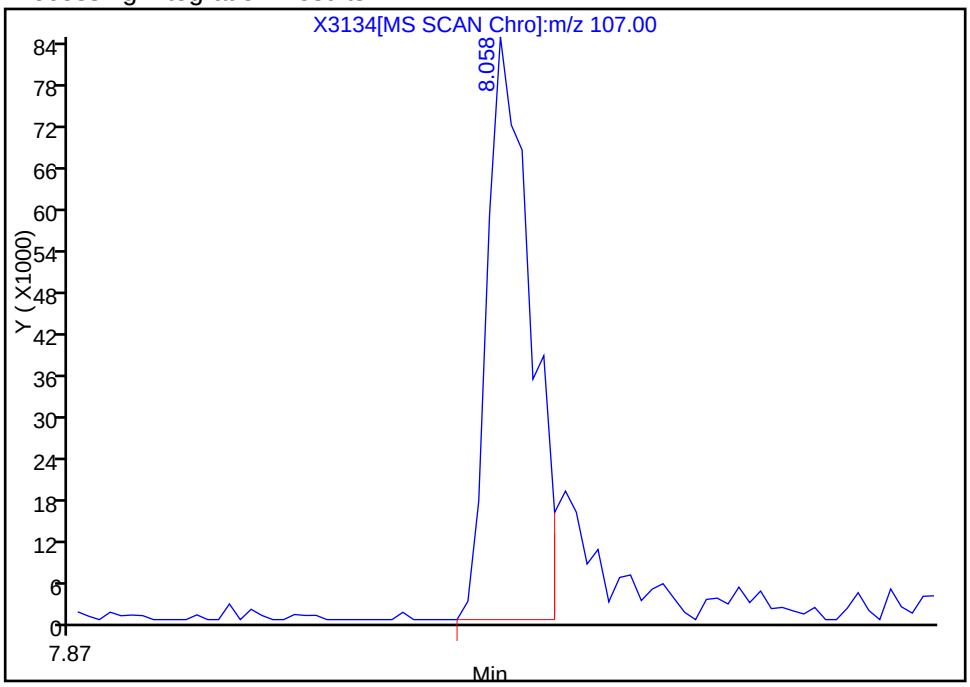
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3134.D		
Injection Date:	18-Dec-2012 12:36:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	5
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

43 2,4-Dimethylphenol, Signal: 1, m/z: 107.0 Type: quant, RT: 8.06

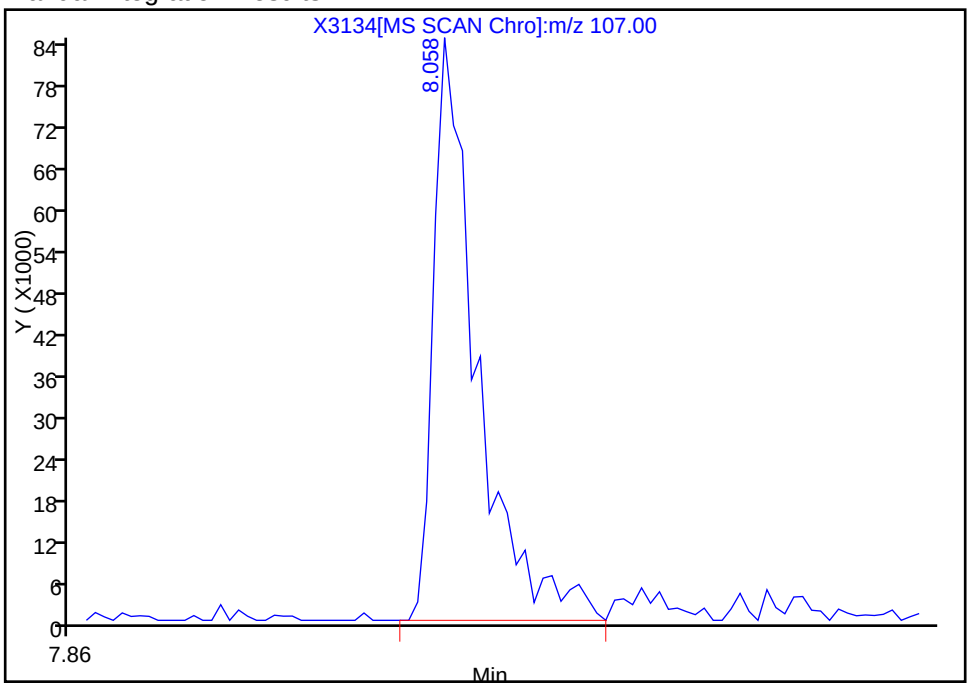
Processing Integration Results

RT: 8.06
Response: 111231
Amount: 2.523282



Manual Integration Results

RT: 8.06
Response: 135144
Amount: 2.602813



Reviewer: mckernar, 18-Dec-2012 13:08:06
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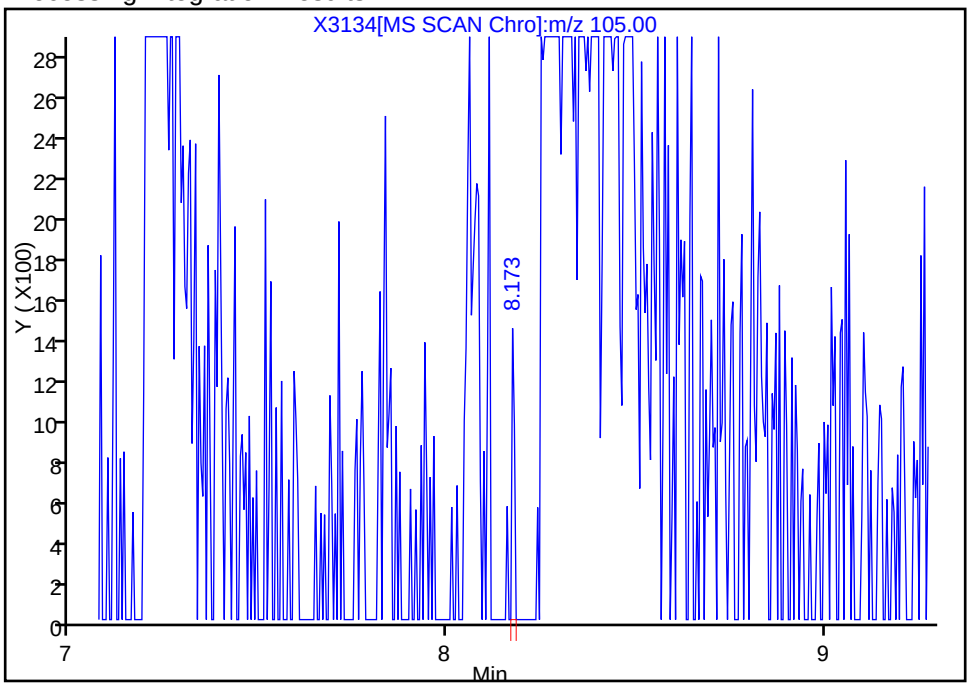
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3134.D		
Injection Date:	18-Dec-2012 12:36:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	5
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

44 Benzoic acid, Signal: 1, m/z: 105.0 Type: quant, RT: 8.27

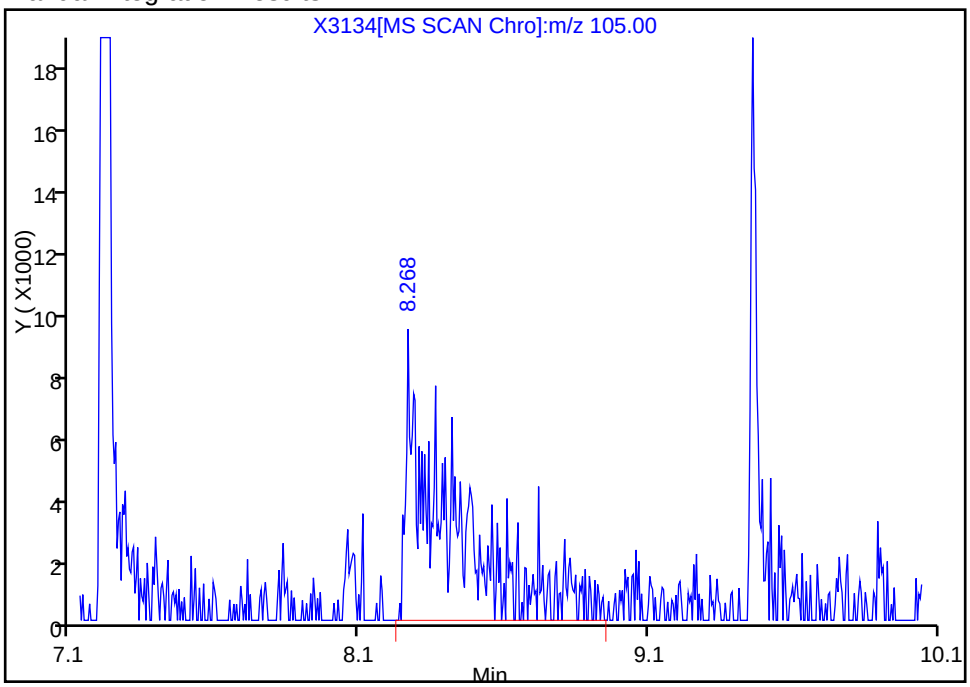
Processing Integration Results

RT: 8.17
Response: 690
Amount: 1.000715



Manual Integration Results

RT: 8.27
Response: 89300
Amount: 3.847578



Reviewer: mckernar, 18-Dec-2012 13:08:06
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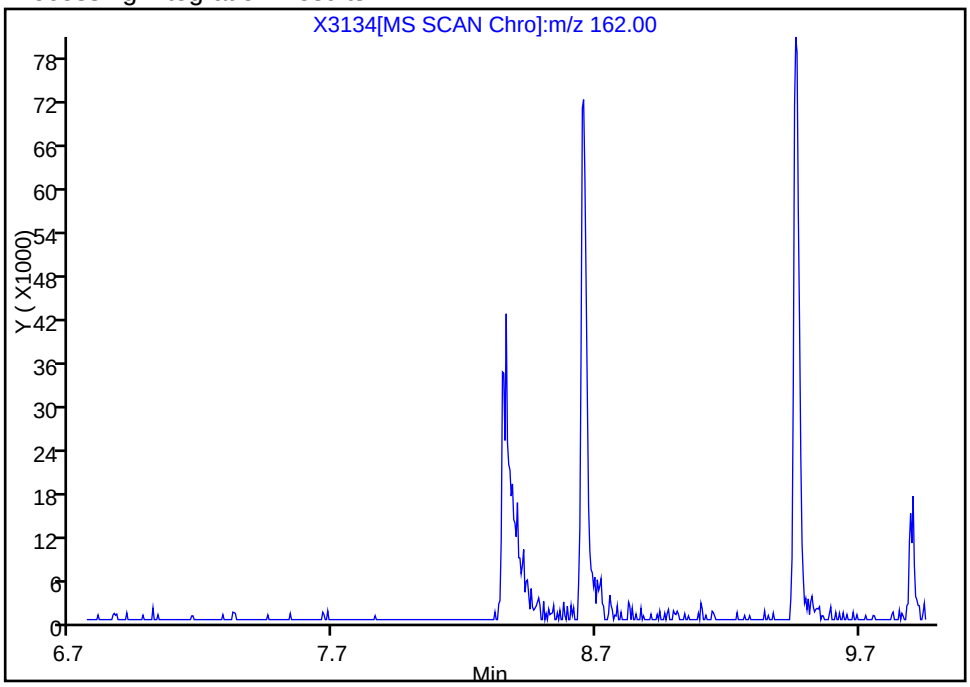
Injection Date:	18-Dec-2012 12:36:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	5
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

47 2,4-Dichlorophenol, Signal: 1, m/z: 162.0 Type: quant, RT: 8.36

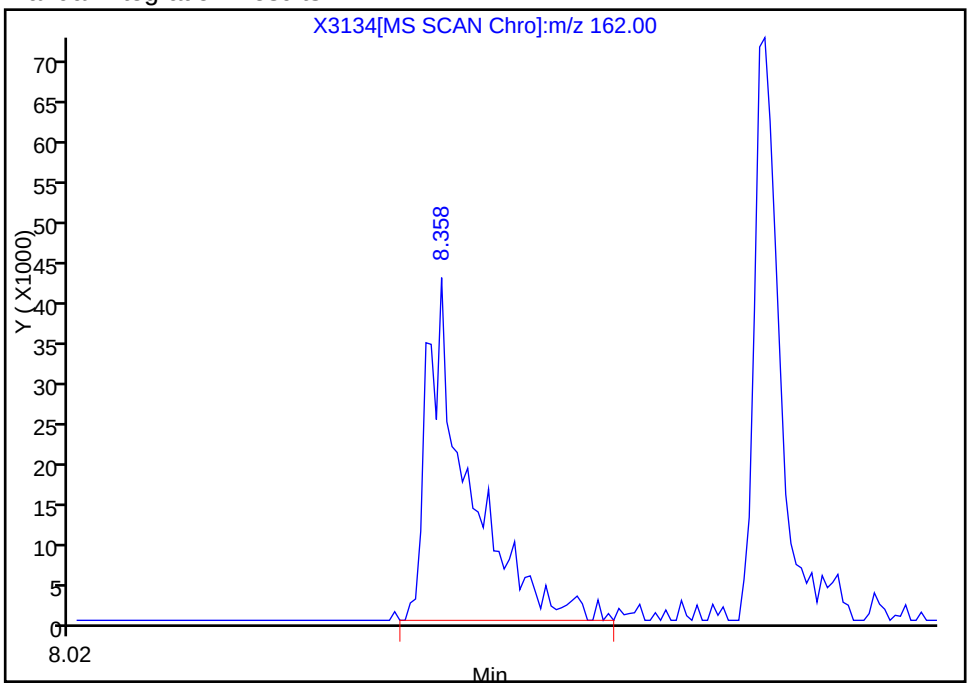
Processing Integration Results

Not Detected
Expected RT: 8.36



Manual Integration Results

RT: 8.36
Response: 111825
Amount: 2.646644



Reviewer: mckernar, 18-Dec-2012 13:08:06
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TestAmerica Buffalo

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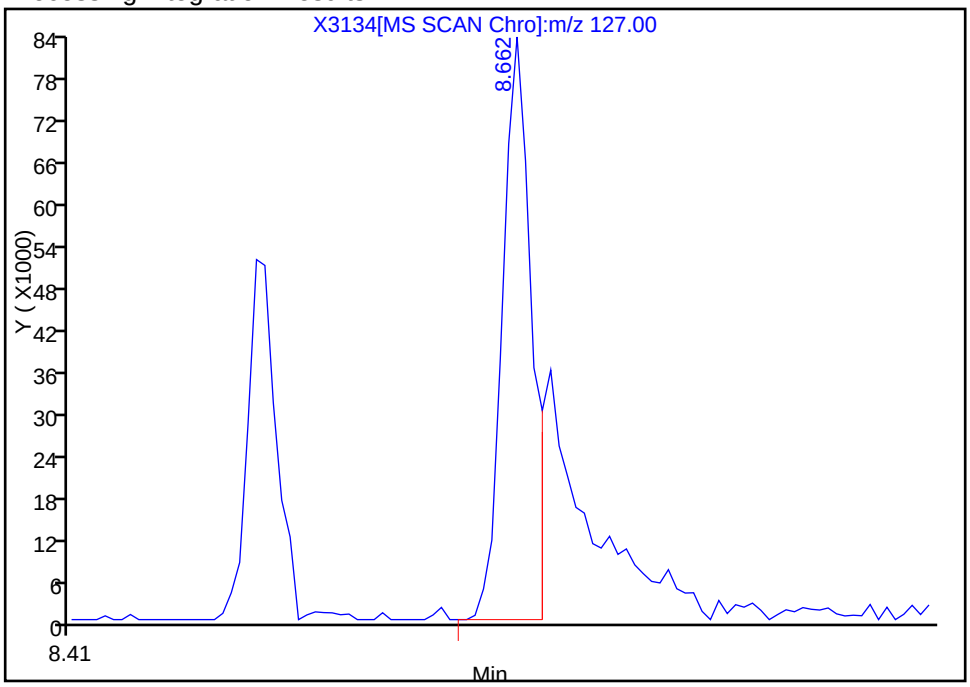
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	5
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

51 4-Chloroaniline, Signal: 1, m/z: 127.0 Type: quant, RT: 8.66

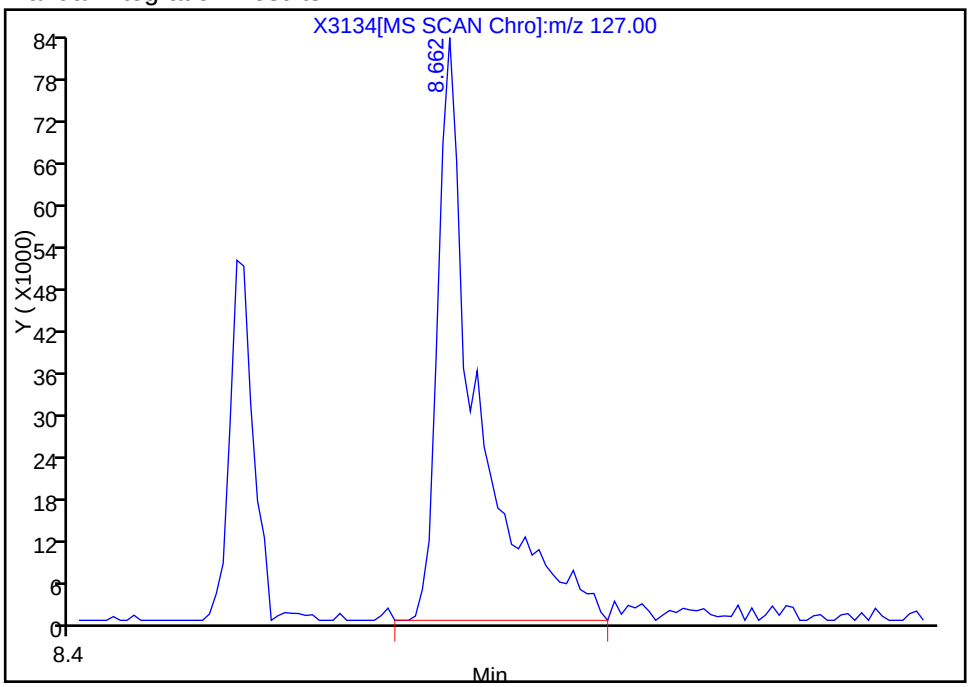
Processing Integration Results

RT: 8.66
Response: 96462
Amount: 2.213314



Manual Integration Results

RT: 8.66
Response: 156755
Amount: 2.516281



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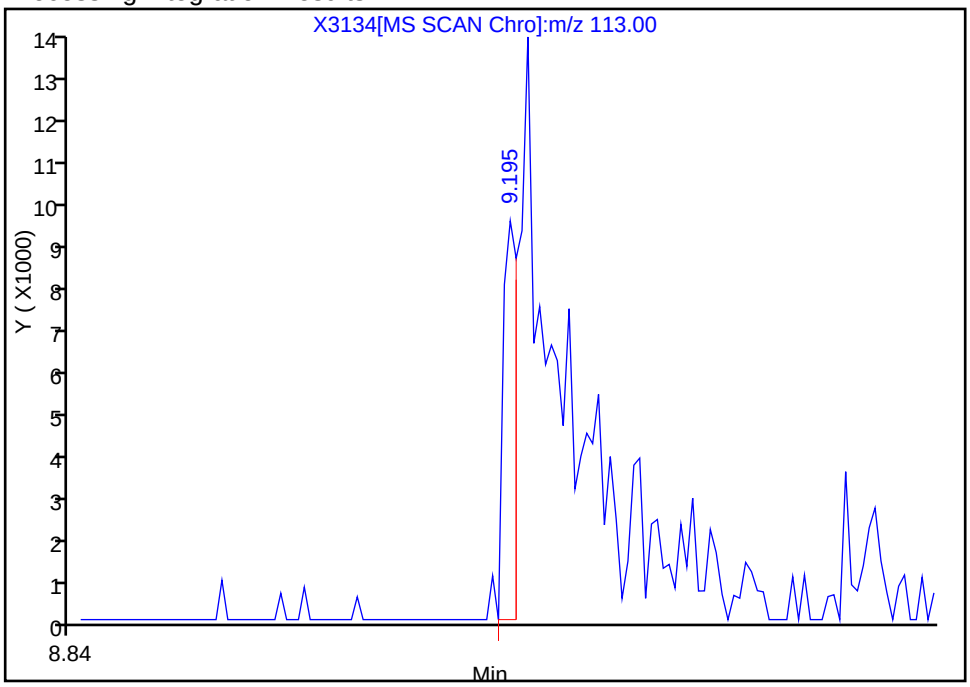
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	5
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

54 Caprolactam, Signal: 1, m/z: 113.0 Type: quant, RT: 9.21

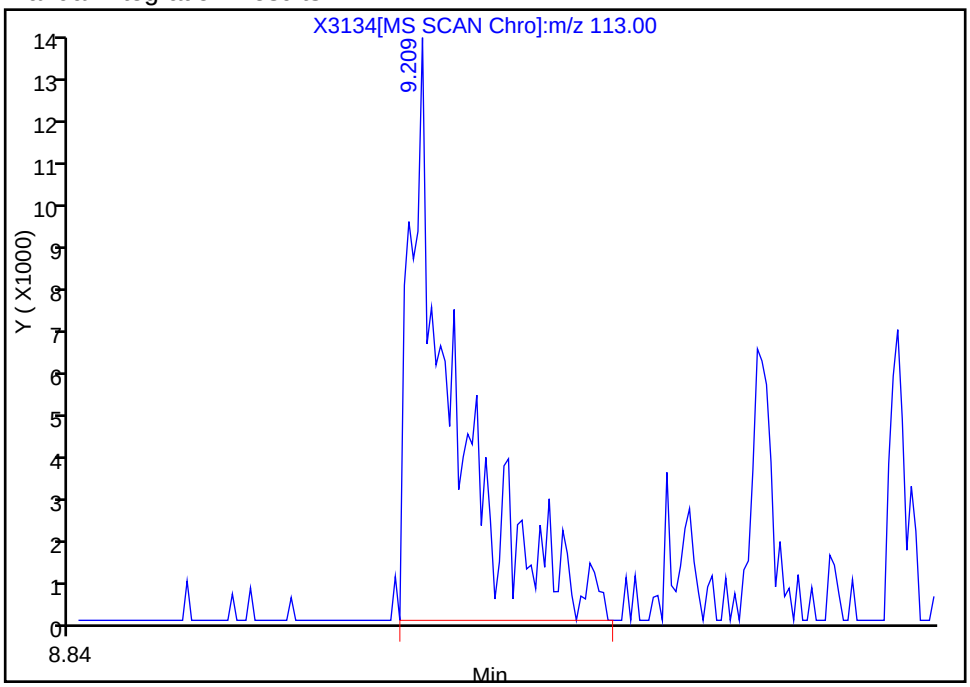
Processing Integration Results

RT: 9.19
Response: 7502
Amount: 1.060537



Manual Integration Results

RT: 9.21
Response: 45612
Amount: 2.966021



Reviewer: mckernar, 18-Dec-2012 13:08:06
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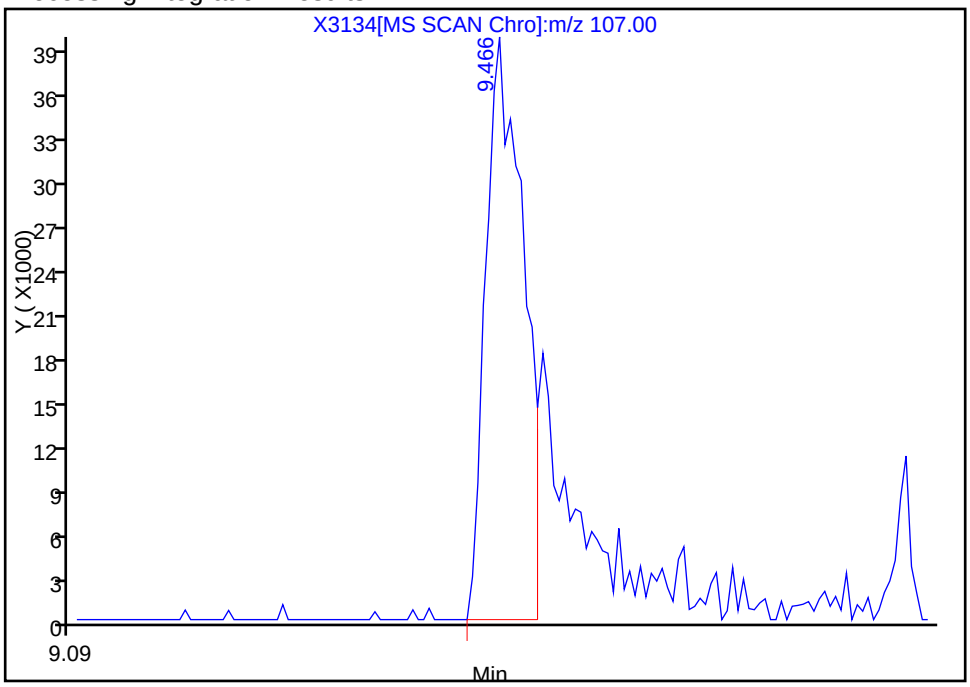
Injection Date:	18-Dec-2012 12:36:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	5
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

55 4-Chloro-3-methylphenol, Signal: 1, m/z: 107.0 Type: quant, RT: 9.47

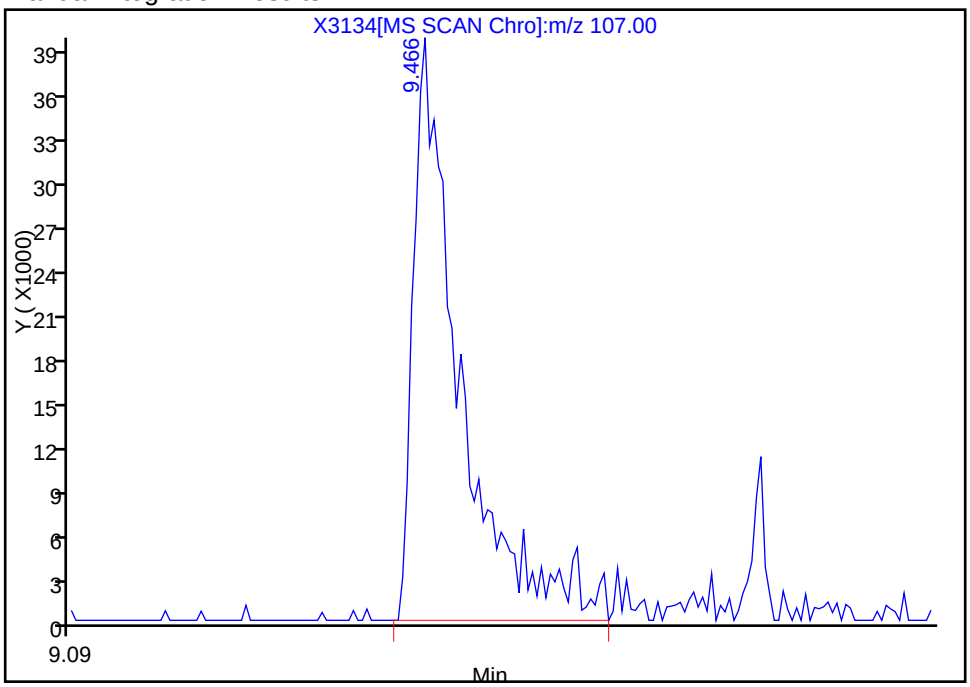
Processing Integration Results

RT: 9.47
Response: 90216
Amount: 2.671238



Manual Integration Results

RT: 9.47
Response: 135114
Amount: 2.894491



Reviewer: mckernar, 18-Dec-2012 13:08:06
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:07 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

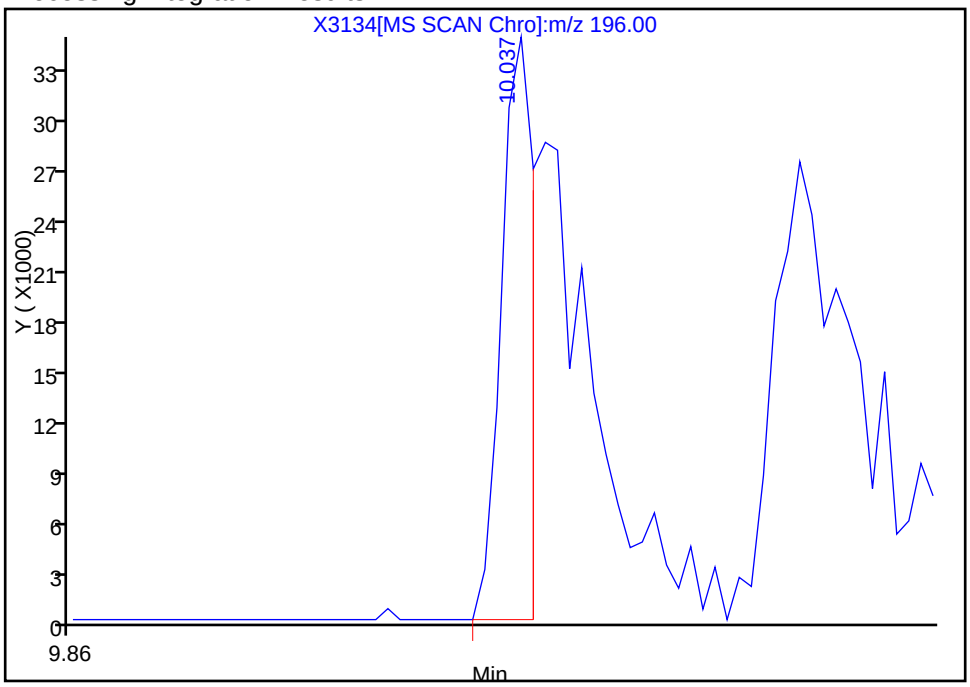
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3134.D		
Injection Date:	18-Dec-2012 12:36:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	5
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

60 2,4,6-Trichlorophenol, Signal: 1, m/z: 196.0 Type: quant, RT: 10.04

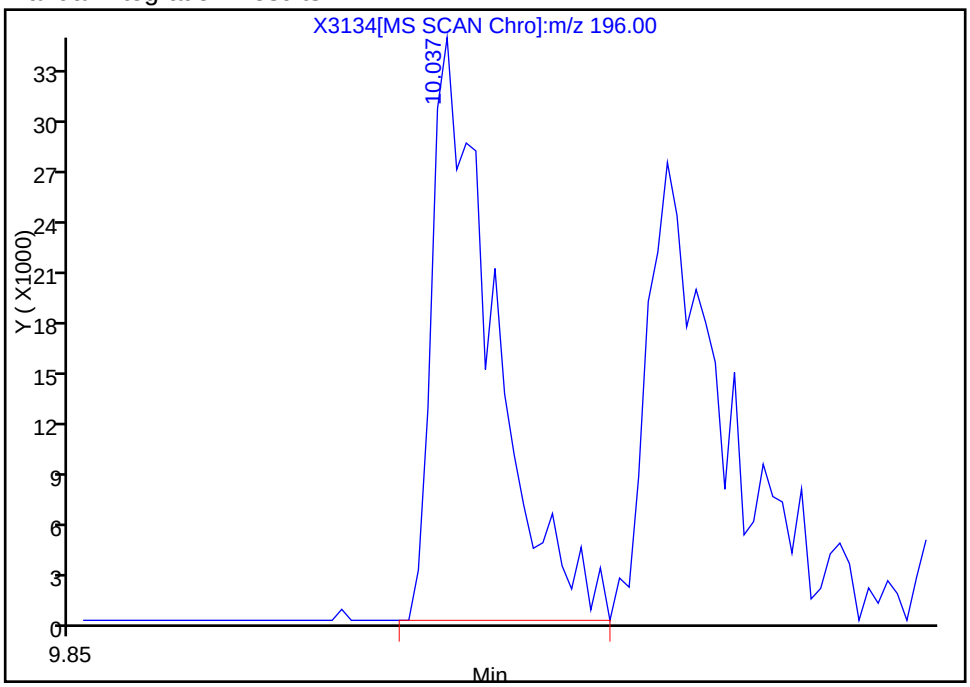
Processing Integration Results

RT: 10.04
Response: 30332
Amount: 1.700010



Manual Integration Results

RT: 10.04
Response: 72851
Amount: 2.532730



Reviewer: mckernar, 18-Dec-2012 13:08:06
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:07 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

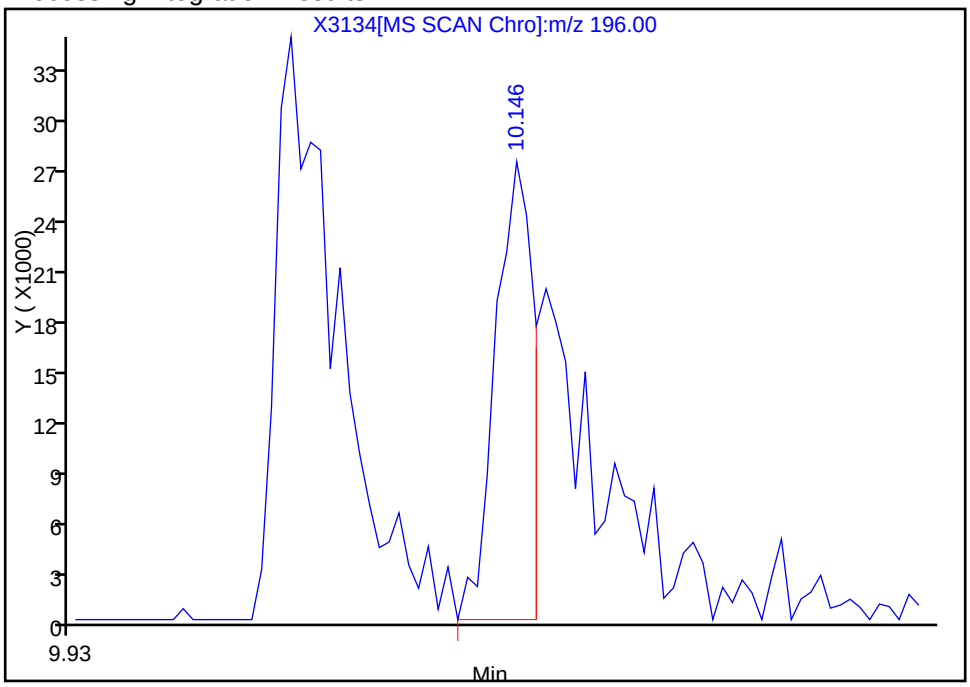
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3134.D		
Injection Date:	18-Dec-2012 12:36:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	5
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

61 2,4,5-Trichlorophenol, Signal: 1, m/z: 196.0 Type: quant, RT: 10.15

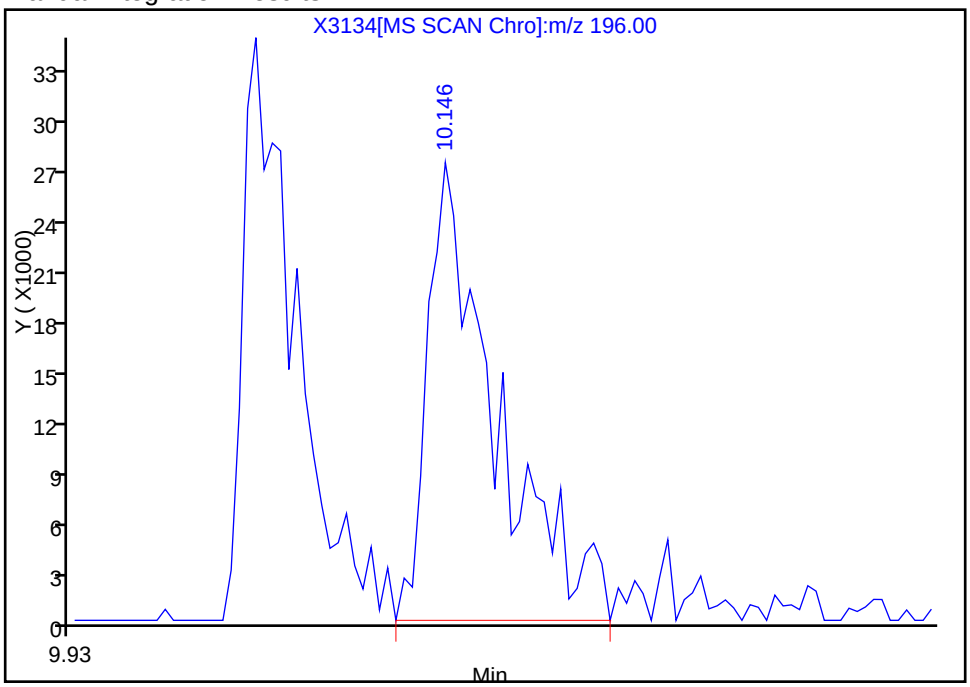
Processing Integration Results

RT: 10.15
Response: 34613
Amount: 1.586065



Manual Integration Results

RT: 10.15
Response: 73198
Amount: 2.630685



Reviewer: mckernar, 18-Dec-2012 13:08:06
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:07 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

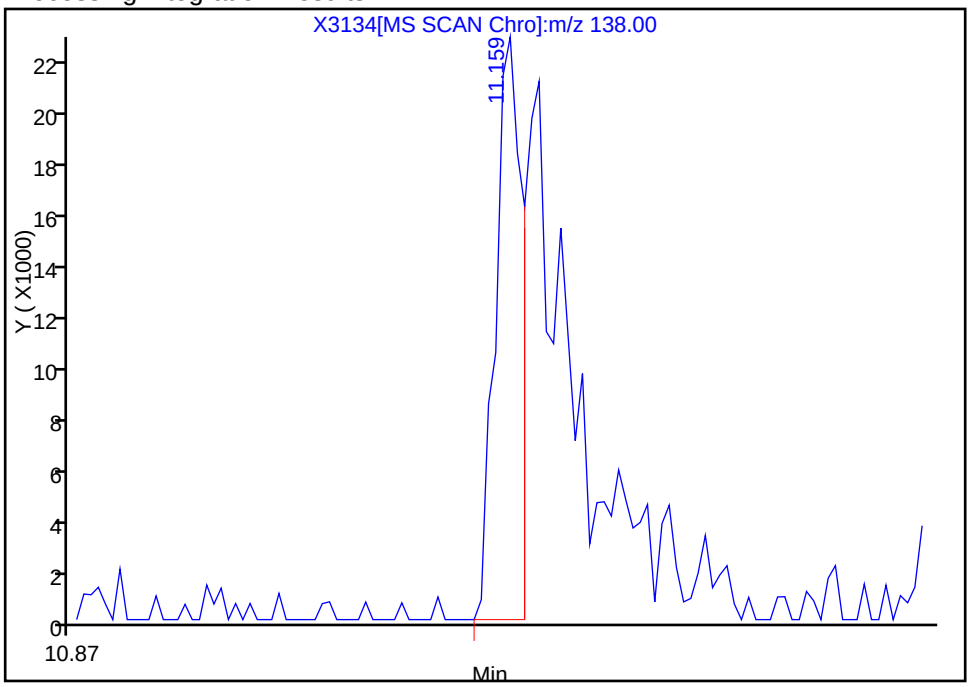
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3134.D		
Injection Date:	18-Dec-2012 12:36:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	5
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

70 3-Nitroaniline, Signal: 1, m/z: 138.0 Type: quant, RT: 11.16

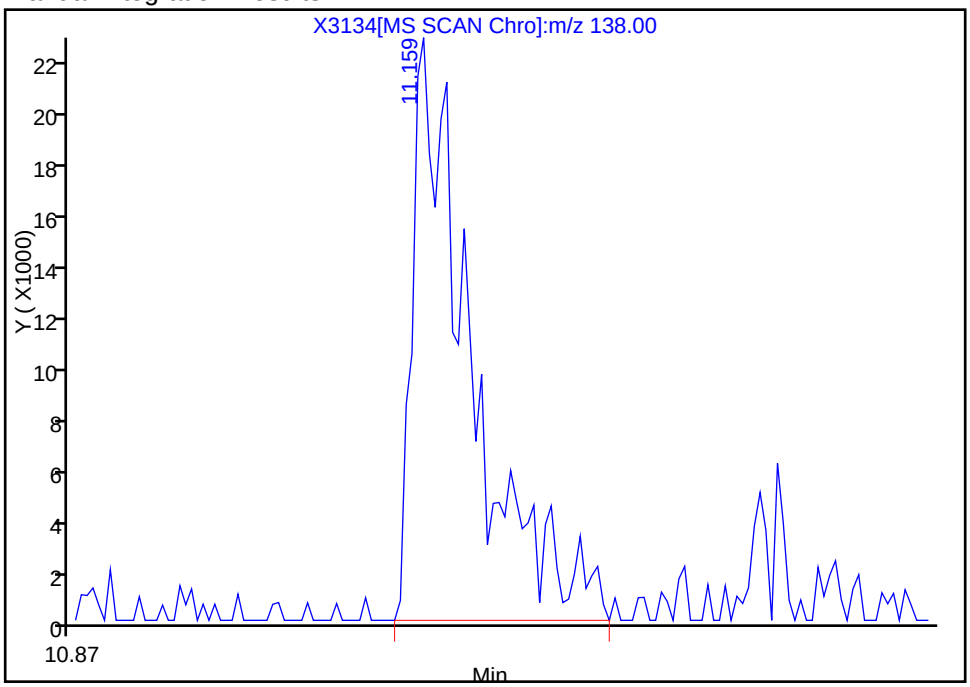
Processing Integration Results

RT: 11.16
Response: 27641
Amount: 2.500000



Manual Integration Results

RT: 11.16
Response: 74904
Amount: 2.581023



Reviewer: mckernar, 18-Dec-2012 13:08:06
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

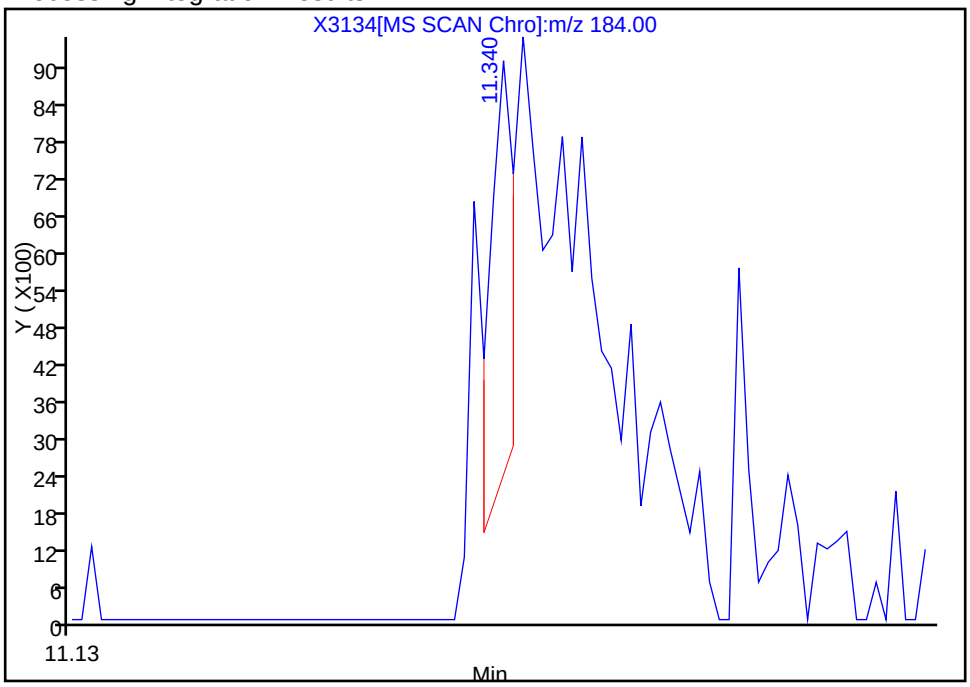
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3134.D		
Injection Date:	18-Dec-2012 12:36:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	5
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

72 2,4-Dinitrophenol, Signal: 1, m/z: 184.0 Type: quant, RT: 11.35

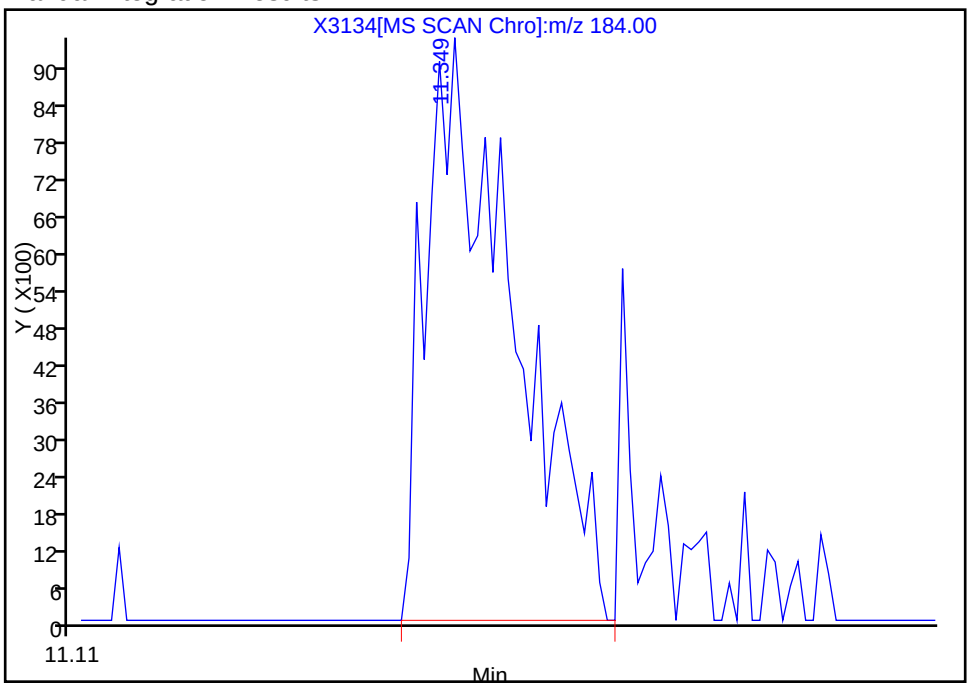
Processing Integration Results

RT: 11.34
Response: 5431
Amount: 5.000000



Manual Integration Results

RT: 11.35
Response: 35900
Amount: 3.890648



Reviewer: mckernar, 18-Dec-2012 13:08:06
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:07 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

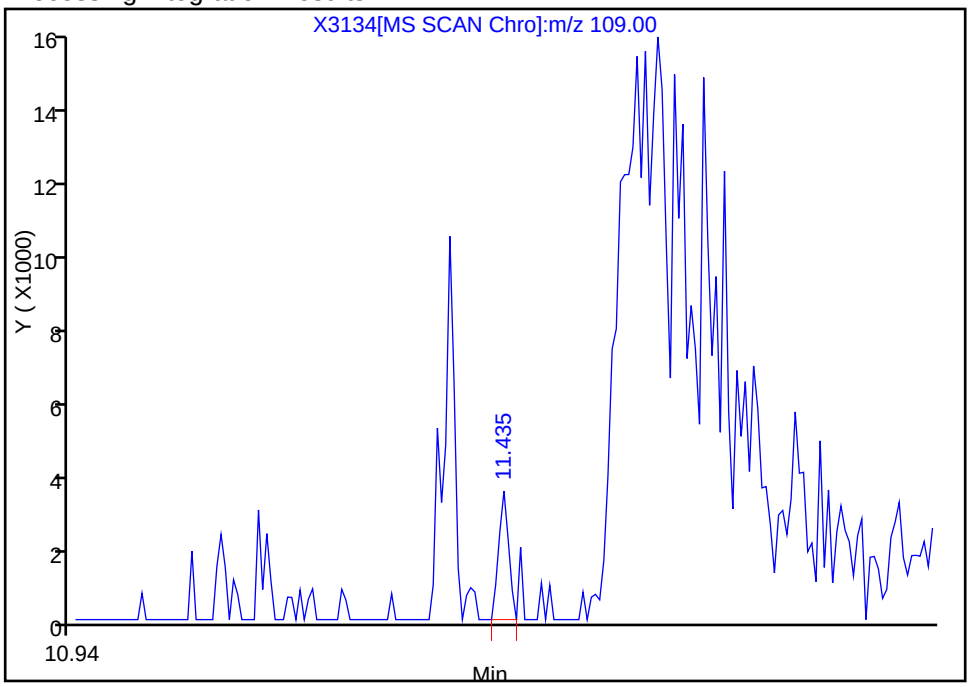
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3134.D		
Injection Date:	18-Dec-2012 12:36:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	5
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

75 4-Nitrophenol, Signal: 1, m/z: 109.0 Type: quant, RT: 11.61

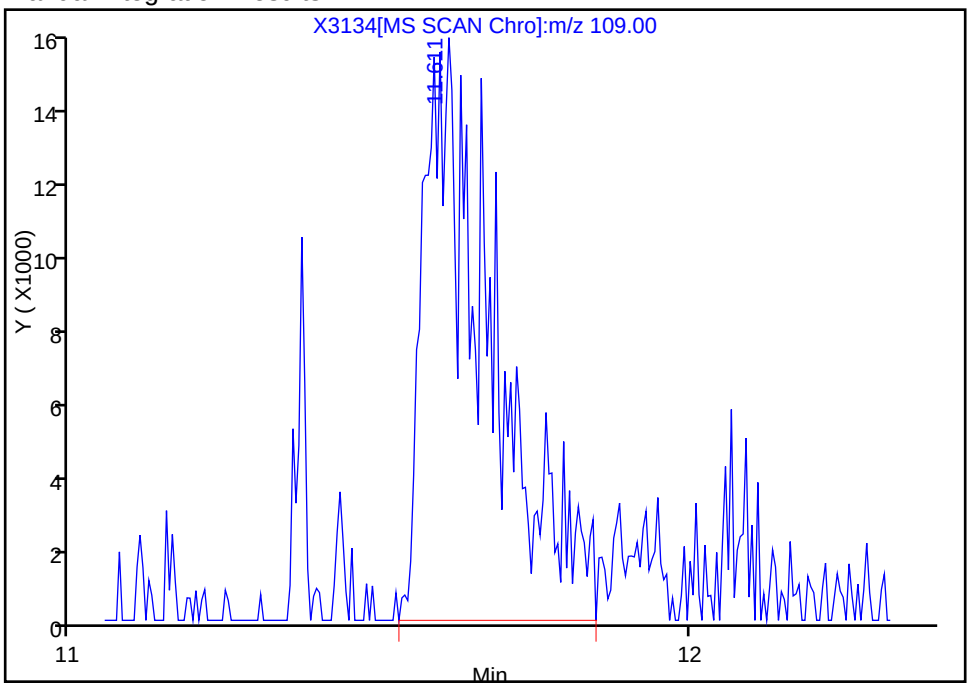
Processing Integration Results

RT: 11.43
Response: 2708
Amount: 5.000000



Manual Integration Results

RT: 11.61
Response: 117392
Amount: 4.708616



Reviewer: mckernar, 18-Dec-2012 13:08:06
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

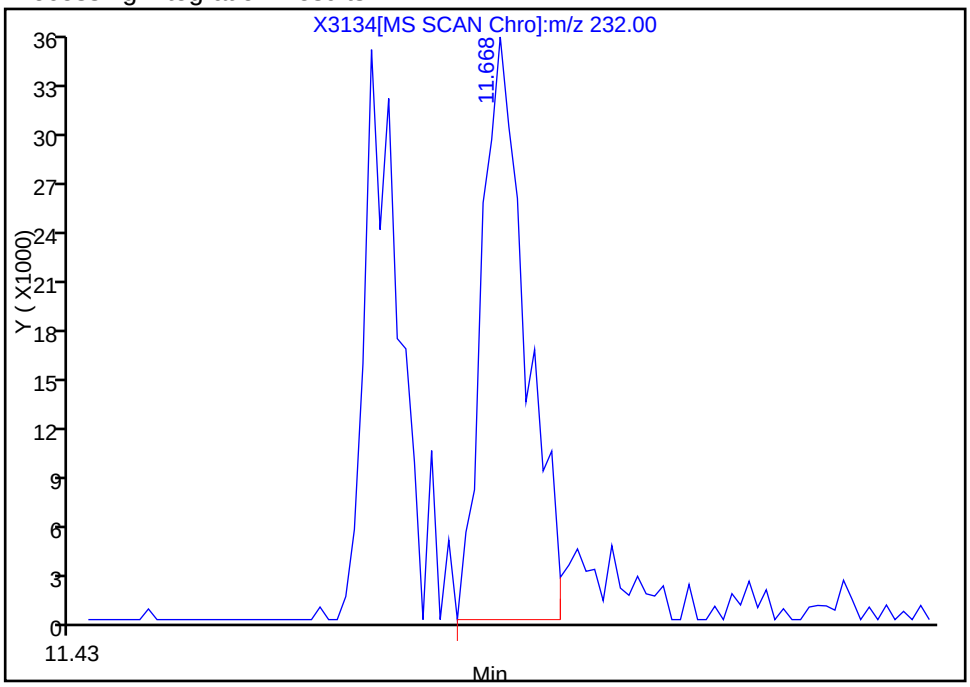
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3134.D		
Injection Date:	18-Dec-2012 12:36:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	5
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

76 2,3,4,6-Tetrachlorophenol, Signal: 1, m/z: 232.0 Type: quant, RT: 11.67

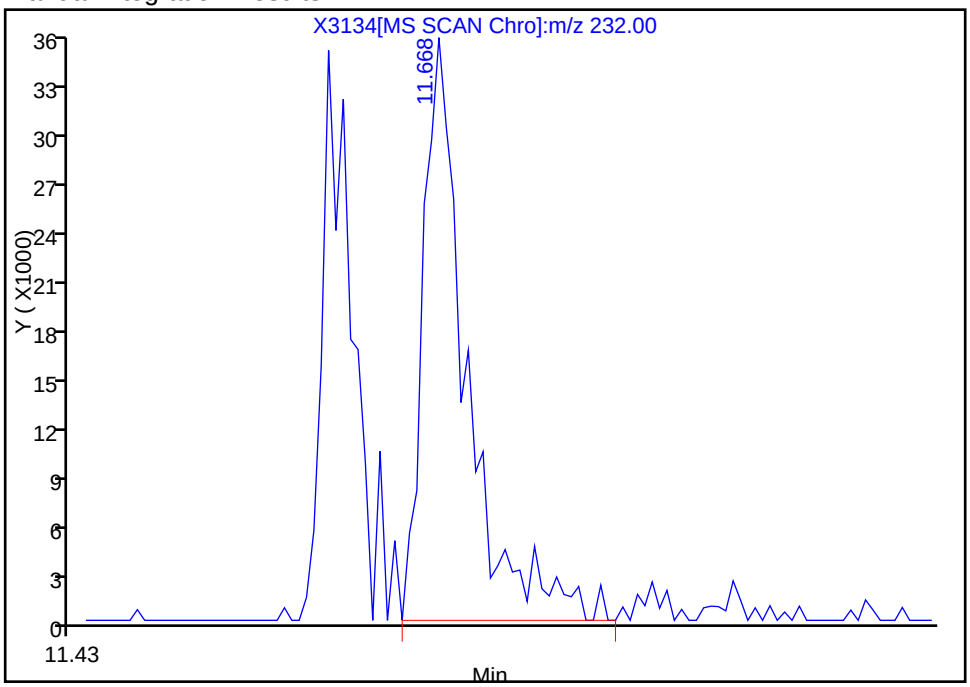
Processing Integration Results

RT: 11.67
Response: 59669
Amount: 2.558689



Manual Integration Results

RT: 11.67
Response: 68881
Amount: 3.077289



Reviewer: mckernar, 18-Dec-2012 15:40:59
Audit Action: Manually Integrated
Audit Reason: Peak Tail

Report Date: 18-Dec-2012 16:43:07 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

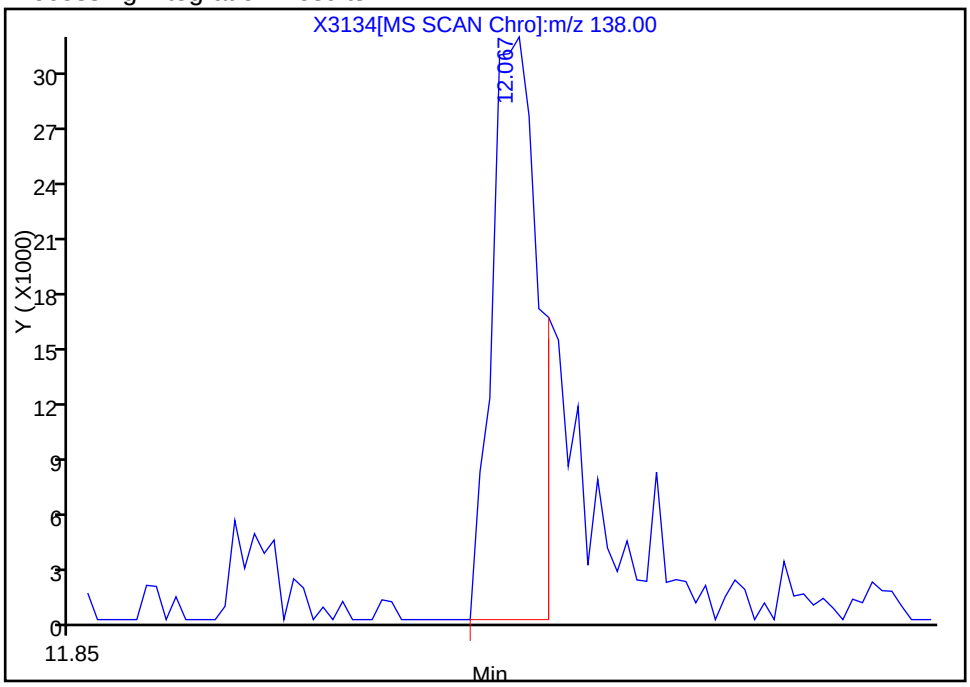
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3134.D		
Injection Date:	18-Dec-2012 12:36:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	5
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

81 4-Nitroaniline, Signal: 1, m/z: 138.0 Type: quant, RT: 12.07

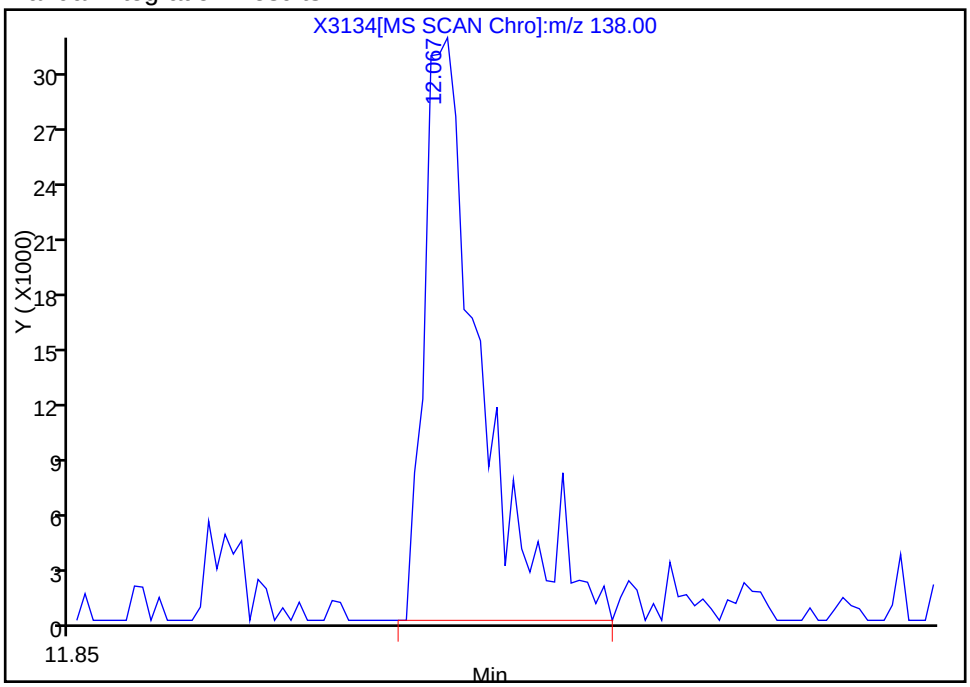
Processing Integration Results

RT: 12.07
Response: 49102
Amount: 4.721570



Manual Integration Results

RT: 12.07
Response: 71047
Amount: 2.518853



Reviewer: mckernar, 18-Dec-2012 13:08:06
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:07 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

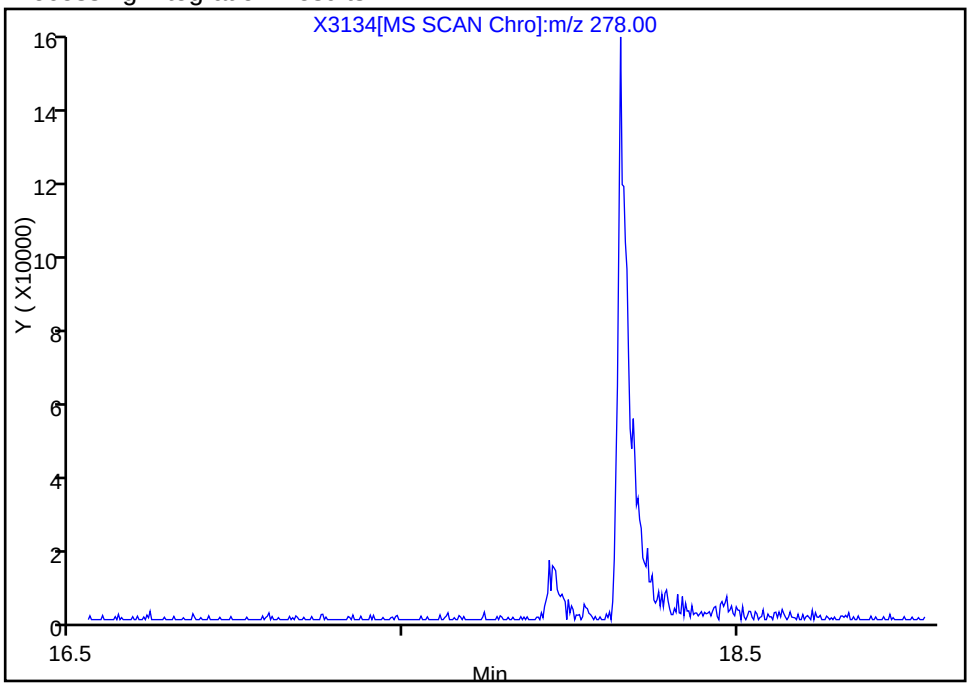
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3134.D		
Injection Date:	18-Dec-2012 12:36:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	5
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

118 Dibenz(a,h)anthracene, Signal: 1, m/z: 278.0 Type: quant, RT: 18.15

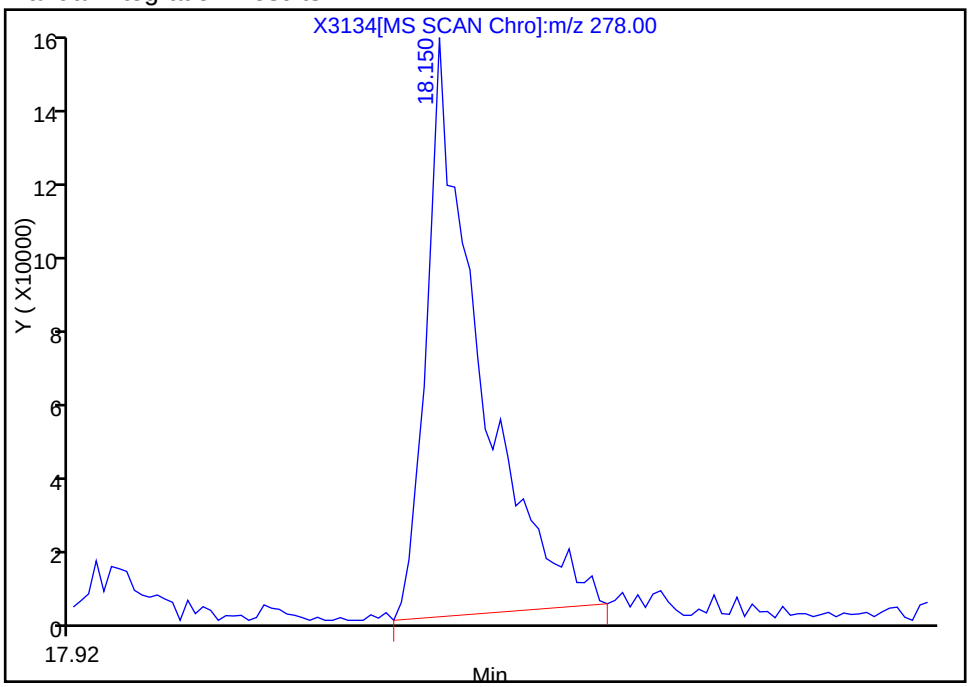
Processing Integration Results

Not Detected
Expected RT: 18.15



Manual Integration Results

RT: 18.15
Response: 361538
Amount: 2.393219



Reviewer: mckernar, 18-Dec-2012 13:08:06
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:07 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

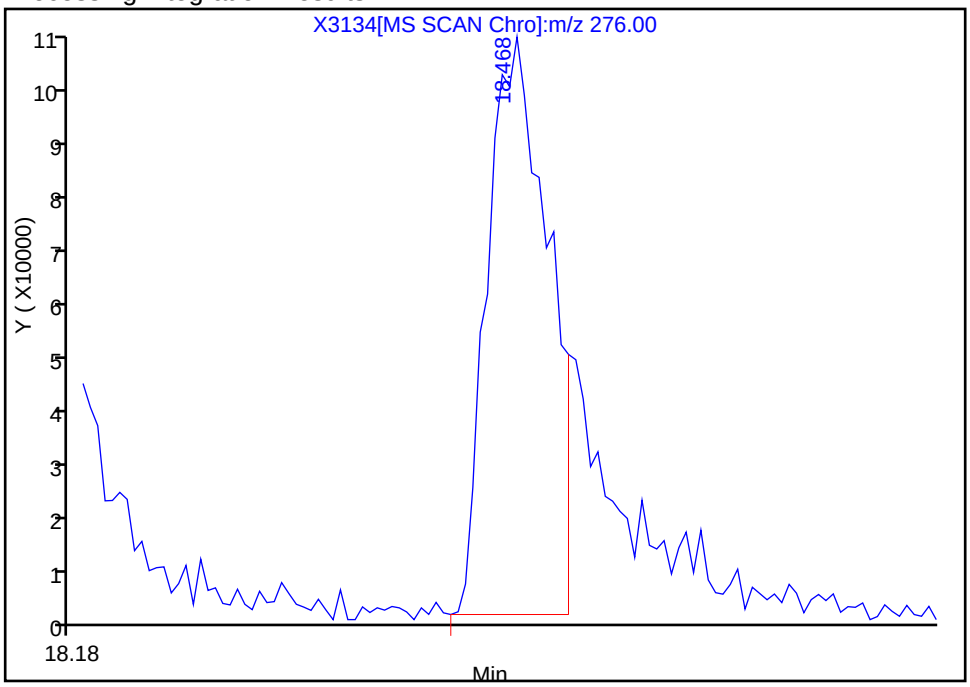
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3134.D		
Injection Date:	18-Dec-2012 12:36:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	5
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

119 Benzo[g,h,i]perylene, Signal: 1, m/z: 276.0 Type: quant, RT: 18.47

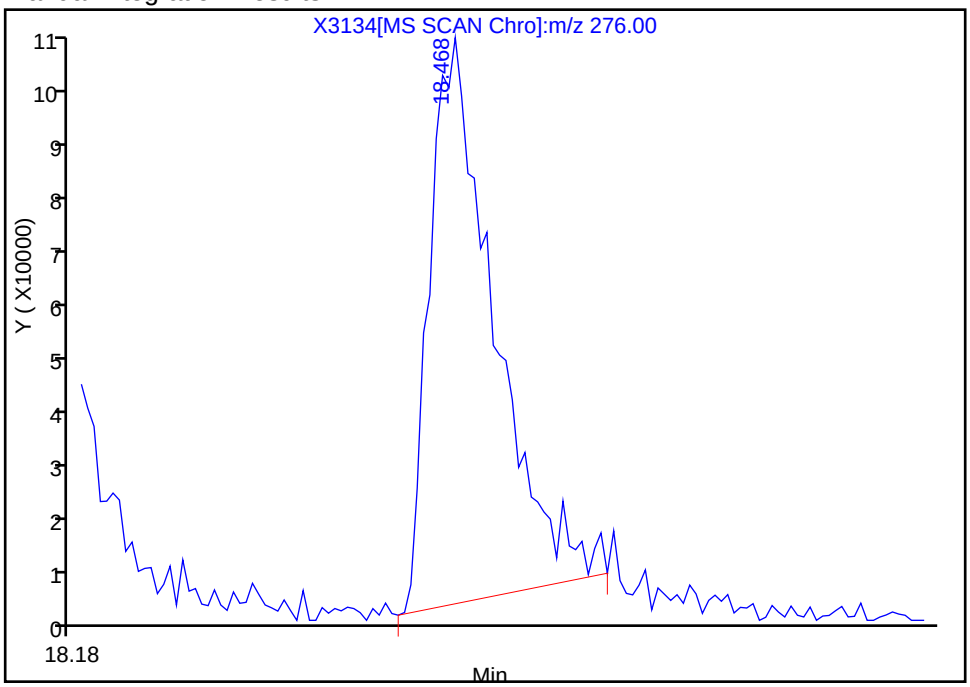
Processing Integration Results

RT: 18.47
Response: 276231
Amount: 2.218327



Manual Integration Results

RT: 18.47
Response: 331317
Amount: 2.230675



Reviewer: mckernar, 18-Dec-2012 13:08:06
Audit Action: Manually Integrated
Audit Reason: Assign Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3135.D		
Lims ID:	ICIS - 5.0	Client ID:	
Inject. Date:	18-Dec-2012 13:01:30	Dil. Factor:	1.0000
Sample Type:	ICIS	Calib Level:	5
Sample ID:	480-0017654-006		
Misc. Info.:			
Operator:	ANM	Instrument ID:	HP5973X
Injection Vol:	1.0 ul	ALS Bottle#:	7
Lims Batch ID:	96347	Lims Sample ID:	6
Sublist:	chrom-X-8270LL*sub20		
Detector:	MS SCAN		

Method:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X-8270LL.m		
Last Update:	18-Dec-2012 16:43:09	Calib Date:	18-Dec-2012 14:44:30
Quant Method:	Internal Standard	Quant By:	Continuing Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3139.D		
Limit Group:	MB - 8270RCP_MCP ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm
Process Host:	XAWRK017		

First Level Reviewer: mckernar Date: 18-Dec-2012 16:43:09

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.580	6.580	0.0	84	239006	5.00	
* 2 Naphthalene-d8	136	8.472	8.472	0.0	98	899352	5.00	
* 3 Acenaphthene-d10	164	11.107	11.107	0.0	89	580354	5.00	
* 4 Phenanthrene-d10	188	13.123	13.123	0.0	93	999064	5.00	
* 5 Chrysene-d12	240	15.763	15.763	0.0	95	870912	5.00	
* 6 Perylene-d12	264	17.028	17.028	0.0	97	874986	5.00	
$ 7 2-Fluorophenol	112	4.692	4.692	0.0	68	260416	4.80	
$ 8 Phenol-d5	99	6.099	6.099	0.0	88	315382	4.78	
$ 9 Nitrobenzene-d5	82	7.417	7.417	0.0	83	336143	4.99	
$ 10 2-Fluorobiphenyl	172	10.113	10.113	0.0	94	714759	4.91	
$ 11 2,4,6-Tribromophenol	330	12.277	12.277	0.0	45	92242	5.02	
$ 12 p-Terphenyl-d14	244	14.797	14.797	0.0	95	798713	4.76	
18 1,4-Dioxane	88	2.461	2.461	0.0	76	123654	5.00	
19 N-Nitrosodimethylamine	42	2.804	2.804	0.0	67	208910	4.78	
20 Pyridine	52	2.865	2.865	0.0	87	224441	5.06	M
21 Benzaldehyde	77	5.942	5.942	0.0	87	162790	3.47	M
23 Aniline	93	6.109	6.109	0.0	93	429032	4.90	
22 Phenol	94	6.123	6.123	0.0	52	353444	4.85	
24 Bis(2-chloroethyl)ether	93	6.213	6.213	0.0	98	277749	4.85	
25 2-Chlorophenol	128	6.280	6.280	0.0	94	291390	4.71	
26 1,3-Dichlorobenzene	146	6.489	6.489	0.0	96	357774	4.66	
27 1,4-Dichlorobenzene	146	6.608	6.608	0.0	72	363036	4.73	
29 1,2-Dichlorobenzene	146	6.822	6.822	0.0	82	334550	4.68	
28 Benzyl alcohol	108	6.822	6.822	0.0	77	116541	5.60	
32 2,2'-oxybis[1-chloropropane]	45	7.012	7.012	0.0	72	425189	4.56	
31 2-Methylphenol	108	7.008	7.008	0.0	70	251708	4.84	
33 Acetophenone	105	7.198	7.198	0.0	93	433526	4.89	
34 N-Nitrosodi-n-propylamine	70	7.203	7.203	0.0	89	212308	4.77	
36 4-Methylphenol	108	7.260	7.260	0.0	79	249264	4.74	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
37 Hexachloroethane	117	7.317	7.317	0.0	92	138413	4.52	
38 Nitrobenzene	77	7.445	7.445	0.0	77	344606	4.92	
40 Isophorone	82	7.806	7.806	0.0	74	566208	4.92	
41 2-Nitrophenol	139	7.921	7.921	0.0	87	150183	4.72	
43 2,4-Dimethylphenol	107	8.040	8.040	0.0	87	324231	5.40	
45 Bis(2-chloroethoxy)methane	93	8.154	8.154	0.0	99	341969	5.02	
44 Benzoic acid	105	8.225	8.225	0.0	1	114208	4.20	M
47 2,4-Dichlorophenol	162	8.315	8.315	0.0	82	230653	4.72	M
48 1,2,4-Trichlorobenzene	180	8.396	8.396	0.0	92	276669	4.60	
49 Naphthalene	128	8.506	8.506	0.0	86	983298	4.94	
51 4-Chloroaniline	127	8.634	8.634	0.0	86	389521	5.40	M
52 Hexachlorobutadiene	225	8.701	8.701	0.0	83	149687	4.56	
54 Caprolactam	113	9.167	9.167	0.0	77	83067	4.67	M
55 4-Chloro-3-methylphenol	107	9.428	9.428	0.0	94	273525	5.06	M
56 2-Methylnaphthalene	142	9.547	9.547	0.0	74	641367	4.59	
57 1-Methylnaphthalene	142	9.694	9.694	0.0	88	623980	4.85	
58 Hexachlorocyclopentadiene	237	9.780	9.780	0.0	77	74568	3.77	
59 1,2,4,5-Tetrachlorobenzene	216	9.804	9.804	0.0	89	249086	4.57	
60 2,4,6-Trichlorophenol	196	10.013	10.013	0.0	91	156965	4.68	
61 2,4,5-Trichlorophenol	196	10.108	10.108	0.0	48	137551	4.24	
62 1,1'-Biphenyl	154	10.260	10.260	0.0	99	809768	4.83	
63 2-Chloronaphthalene	162	10.303	10.303	0.0	95	668430	4.94	
64 Phenyl ether	170	10.422	10.422	0.0	94	449001	4.92	
65 2-Nitroaniline	65	10.484	10.484	0.0	80	174954	4.55	
66 1,4-Dinitrobenzene	75	10.717	10.717	0.0	73	105212	0	
67 Dimethyl phthalate	163	10.764	10.764	0.0	94	712993	4.75	
68 2,6-Dinitrotoluene	165	10.850	10.850	0.0	86	327996	4.82	
69 Acenaphthylene	152	10.893	10.893	0.0	88	946253	4.66	
70 3-Nitroaniline	138	11.126	11.126	0.0	79	135474	4.01	
71 Acenaphthene	153	11.154	11.154	0.0	88	636064	4.50	
72 2,4-Dinitrophenol	184	11.302	11.302	0.0	76	117671	9.68	M
73 Dibenzofuran	168	11.425	11.425	0.0	99	881367	5.11	
74 2,4-Dinitrotoluene	165	11.468	11.468	0.0	1	192907	4.44	
75 4-Nitrophenol	109	11.521	11.521	0.0	1	240901	8.29	M
76 2,3,4,6-Tetrachlorophenol	232	11.649	11.649	0.0	86	104485	4.01	
78 Diethyl phthalate	149	11.820	11.820	0.0	92	789783	4.80	
79 Fluorene	166	11.930	11.930	0.0	85	767084	4.86	
80 4-Chlorophenyl phenyl ether	204	11.944	11.944	0.0	88	343625	4.92	
81 4-Nitroaniline	138	12.039	12.039	0.0	82	152208	4.29	
82 4,6-Dinitro-2-methylphenol	198	12.063	12.063	0.0	47	203339	8.65	
84 Diphenylamine	169	12.120	12.120	0.0	97	1192504	5.13	
83 N-Nitrosodiphenylamine	169	12.120	12.120	0.0	97	1192504	5.13	
16 1,2-Diphenylhydrazine	77	12.163	12.163	0.0	95	717552	4.78	
85 Azobenzene	77	12.163	12.163	0.0	95	717552	4.79	
86 Benzophenone	105	12.186	12.186	0.0	92	601879	4.36	
89 4-Bromophenyl phenyl ether	248	12.591	12.591	0.0	79	167439	4.47	
91 Hexachlorobenzene	284	12.652	12.652	0.0	68	190748	4.86	
92 Simazine	201	12.800	12.800	0.0	85	92991	0	
93 Atrazine	200	12.838	12.838	0.0	86	415457	9.52	
95 Pentachloronitrobenzene	237	12.923	12.923	0.0	76	92665	4.57	
94 Pentachlorophenol	266	12.928	12.928	0.0	73	158642	8.67	
97 Phenanthrene	178	13.152	13.152	0.0	94	1084497	4.87	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
98 Anthracene	178	13.214	13.214	0.0	95	1085154	4.78	
99 Carbazole	167	13.418	13.418	0.0	99	1022385	4.86	
101 Alachlor	160	13.565	13.565	0.0	91	194198	0	
102 Di-n-butyl phthalate	149	13.803	13.803	0.0	96	1248342	5.12	
104 Fluoranthene	202	14.426	14.426	0.0	96	1101355	4.99	
105 Benzidine	184	14.593	14.593	0.0	98	420563	4.37	
106 Pyrene	202	14.650	14.650	0.0	98	1131711	4.85	
107 Famphur	218	15.197	15.197	0.0	84	407742	0	
108 Butyl benzyl phthalate	149	15.244	15.244	0.0	93	623033	4.83	
110 Bis(2-ethylhexyl) phthalate	149	15.734	15.734	0.0	96	828734	4.67	
109 3,3'-Dichlorobenzidine	252	15.734	15.734	0.0	70	370716	4.74	
111 Benzo[a]anthracene	228	15.748	15.748	0.0	97	958718	5.11	
112 Chrysene	228	15.786	15.786	0.0	90	899840	4.23	
113 Di-n-octyl phthalate	149	16.271	16.271	0.0	98	1360557	4.86	
114 Benzo[b]fluoranthene	252	16.676	16.676	0.0	94	958574	4.72	
115 Benzo[k]fluoranthene	252	16.699	16.699	0.0	97	1052157	5.03	
116 Benzo[a]pyrene	252	16.975	16.975	0.0	74	889246	4.53	
118 Dibenz(a,h)anthracene	278	18.093	18.093	0.0	55	813075	4.57	
117 Indeno[1,2,3-cd]pyrene	276	18.088	18.088	0.0	95	959184	4.57	
119 Benzo[g,h,i]perylene	276	18.402	18.402	0.0	95	830876	4.75	
S 121 3-Methylphenol	1		0.000					

QC Flag Legend

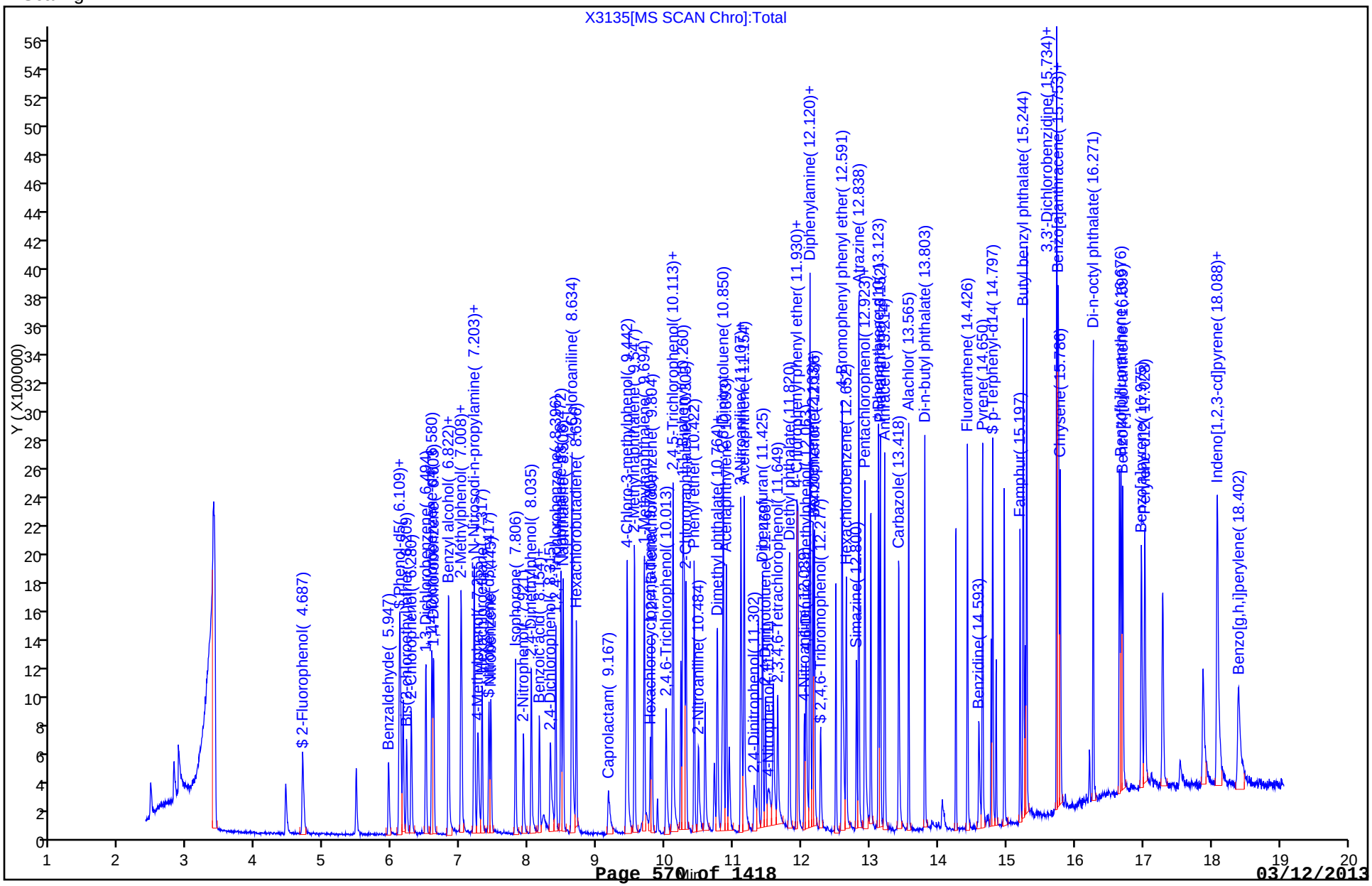
Review Flags
M - Manually Integrated

Report Date: 18-Dec-2012 16:43:10 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3135.D		
Injection Date:	18-Dec-2012 13:01:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	6
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Y Scaling:



Report Date: 18-Dec-2012 16:43:10 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

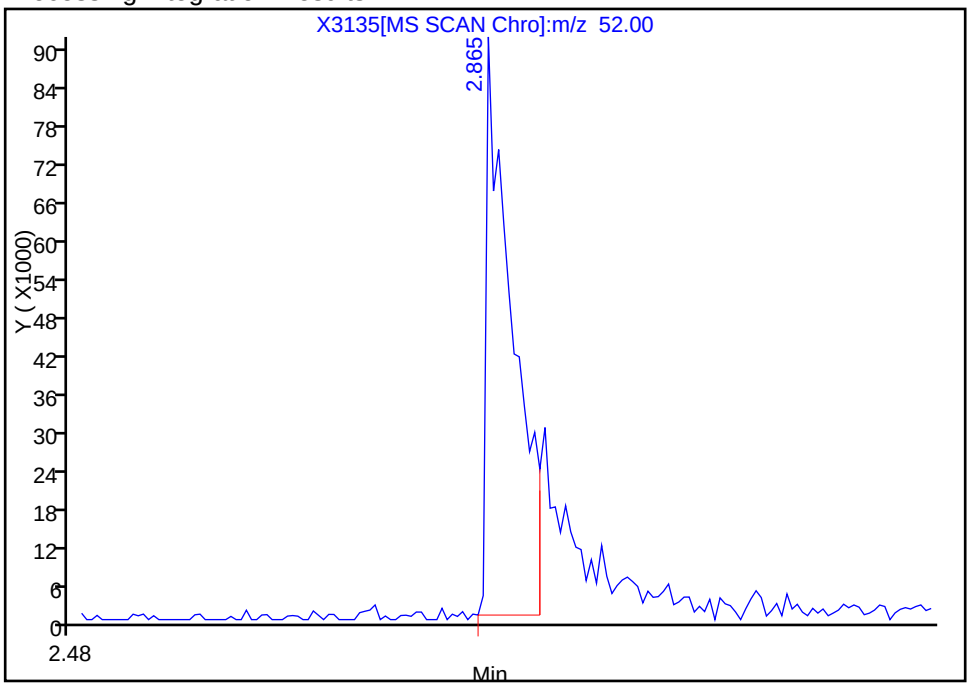
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3135.D		
Injection Date:	18-Dec-2012 13:01:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	6
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

20 Pyridine, Signal: 1, m/z: 52.0 Type: quant, RT: 2.87

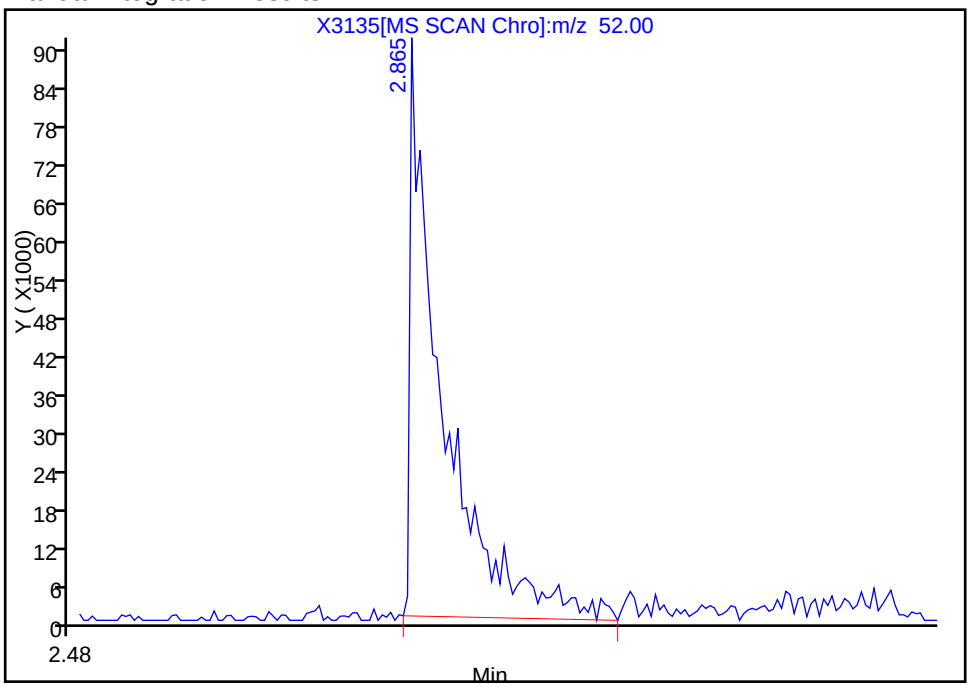
Processing Integration Results

RT: 2.87
Response: 153072
Amount: 3.707451



Manual Integration Results

RT: 2.87
Response: 224441
Amount: 5.062018



Reviewer: mckernar, 18-Dec-2012 13:38:28
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

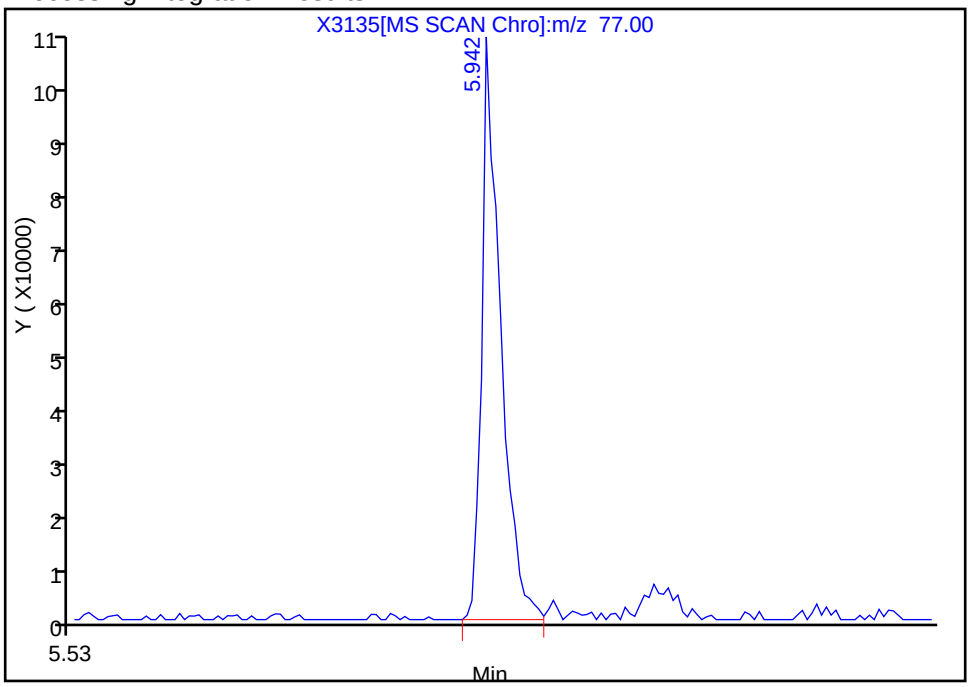
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3135.D		
Injection Date:	18-Dec-2012 13:01:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	6
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

21 Benzaldehyde, Signal: 1, m/z: 77.0 Type: quant, RT: 5.94

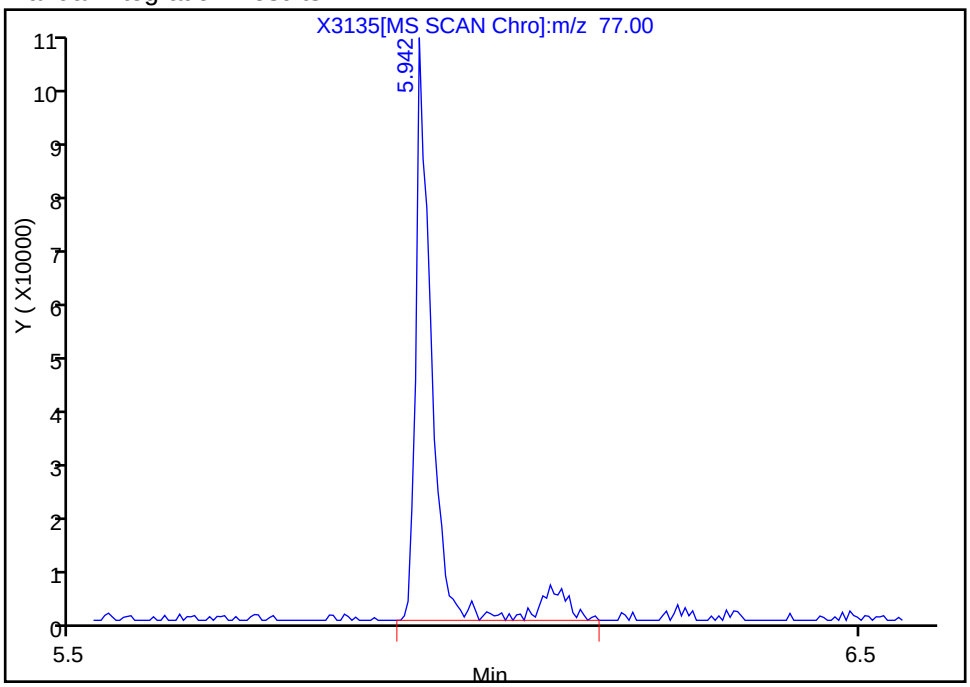
Processing Integration Results

RT: 5.94
Response: 142765
Amount: 3.080421



Manual Integration Results

RT: 5.94
Response: 162790
Amount: 3.474962



Reviewer: mckernar, 18-Dec-2012 15:36:57
Audit Action: Manually Integrated
Audit Reason: Split Peak

Report Date: 18-Dec-2012 16:43:10 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

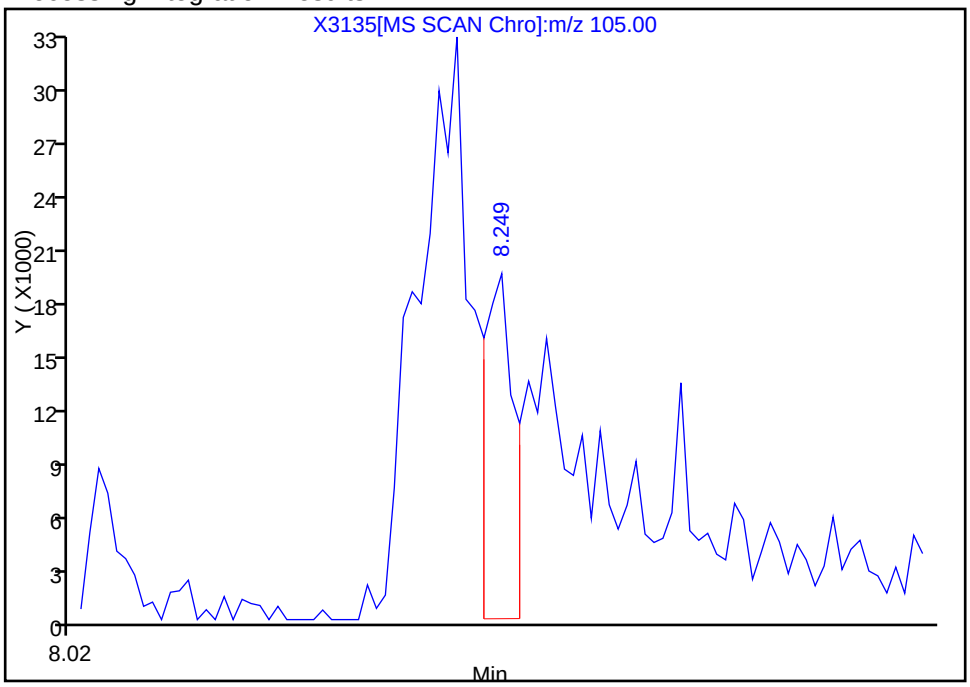
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3135.D		
Injection Date:	18-Dec-2012 13:01:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	6
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

44 Benzoic acid, Signal: 1, m/z: 105.0 Type: quant, RT: 8.22

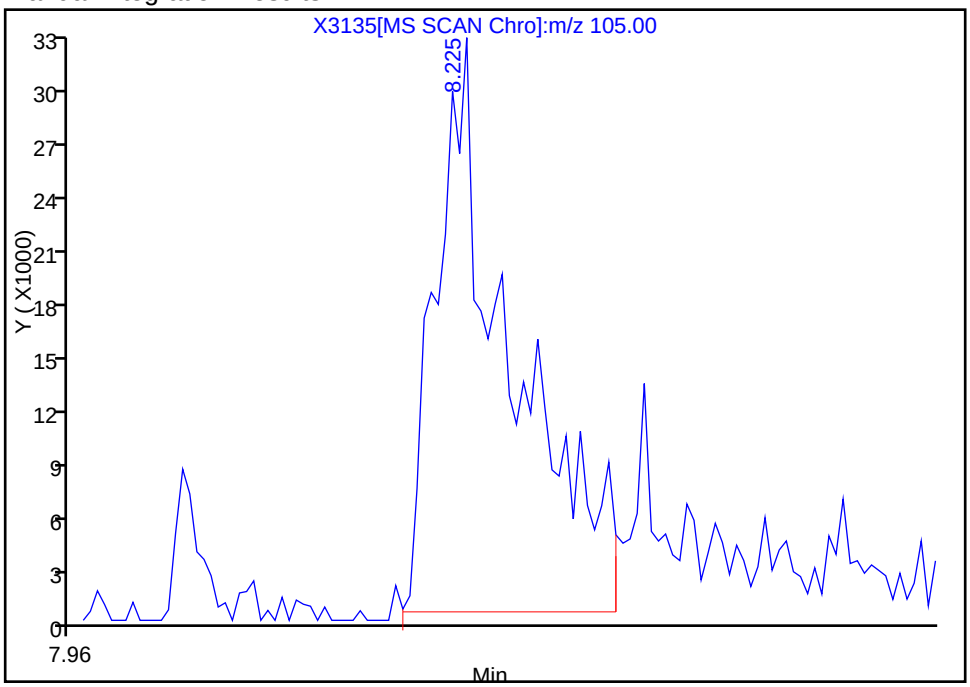
Processing Integration Results

RT: 8.25
Response: 21923
Amount: 1.399517



Manual Integration Results

RT: 8.22
Response: 114208
Amount: 4.202714



Reviewer: mckernar, 18-Dec-2012 13:38:28
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

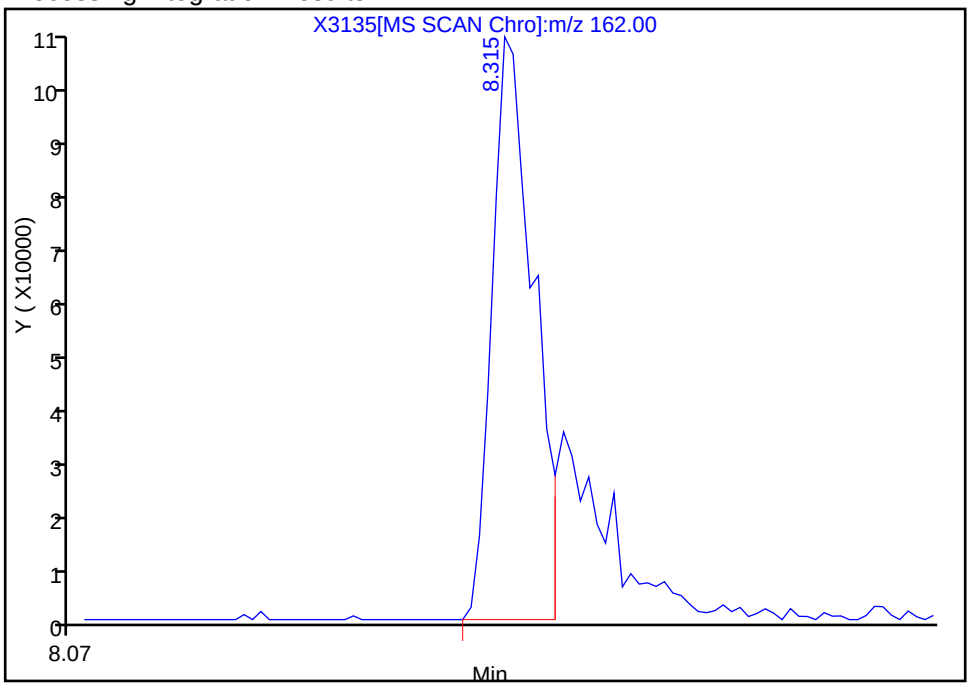
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3135.D		
Injection Date:	18-Dec-2012 13:01:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	6
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

47 2,4-Dichlorophenol, Signal: 1, m/z: 162.0 Type: quant, RT: 8.32

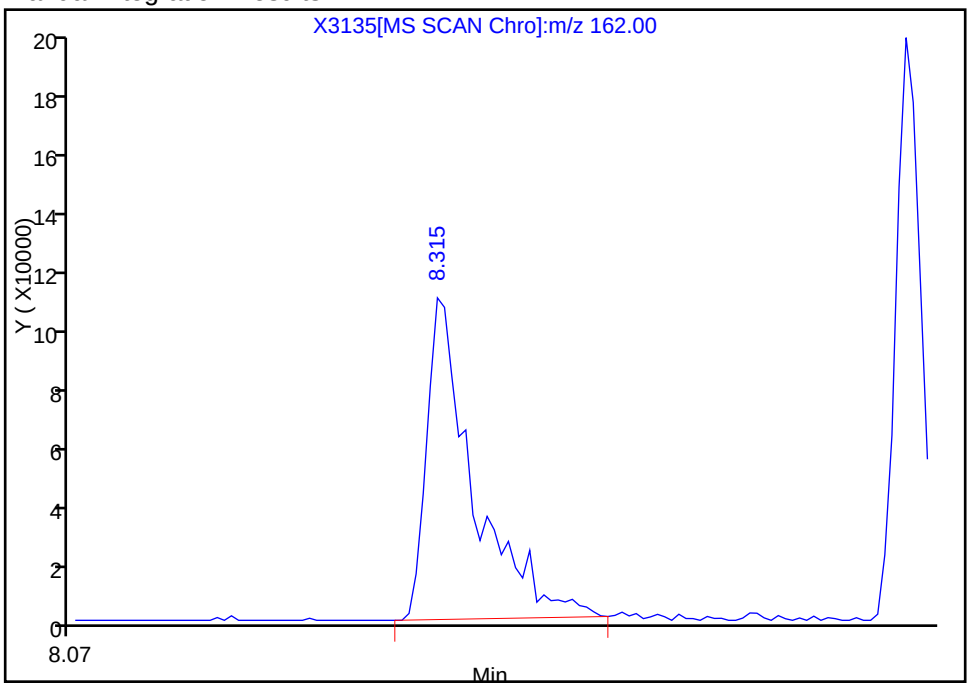
Processing Integration Results

RT: 8.32
Response: 173410
Amount: 4.272565



Manual Integration Results

RT: 8.32
Response: 230653
Amount: 4.717684



Reviewer: mckernar, 18-Dec-2012 13:38:28
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

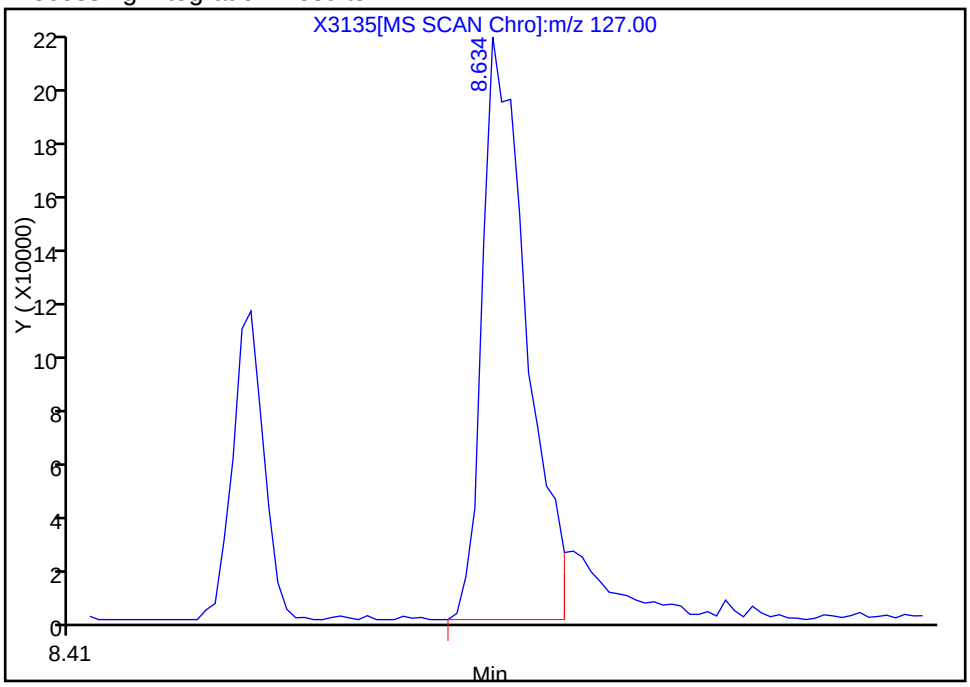
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3135.D		
Injection Date:	18-Dec-2012 13:01:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	6
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

51 4-Chloroaniline, Signal: 1, m/z: 127.0 Type: quant, RT: 8.63

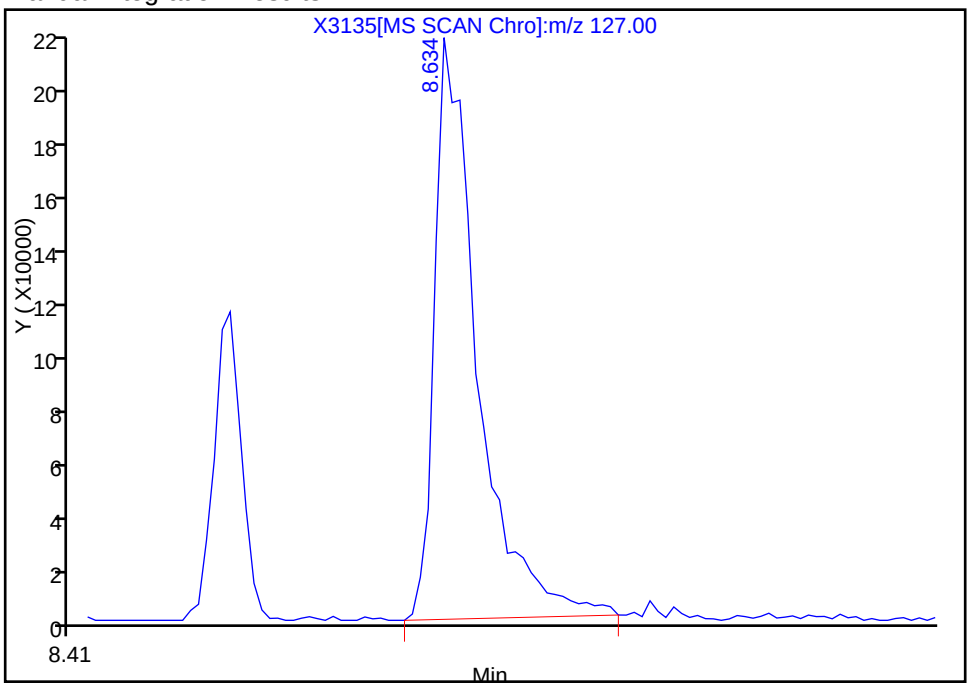
Processing Integration Results

RT: 8.63
Response: 355055
Amount: 5.331673



Manual Integration Results

RT: 8.63
Response: 389521
Amount: 5.403583



Reviewer: mckernar, 18-Dec-2012 13:38:28
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

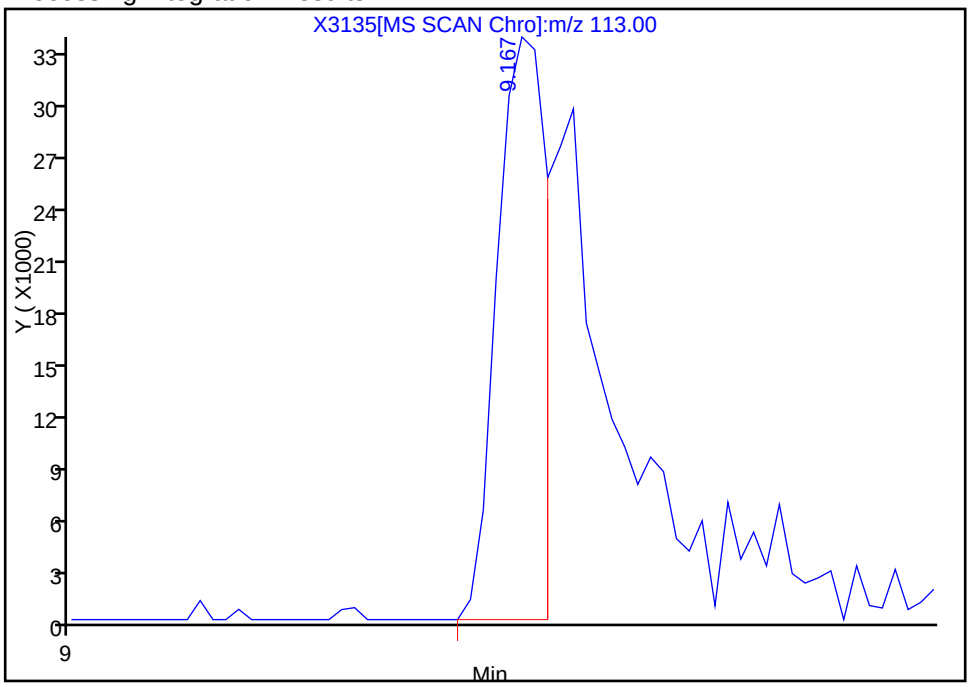
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3135.D		
Injection Date:	18-Dec-2012 13:01:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	6
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

54 Caprolactam, Signal: 1, m/z: 113.0 Type: quant, RT: 9.17

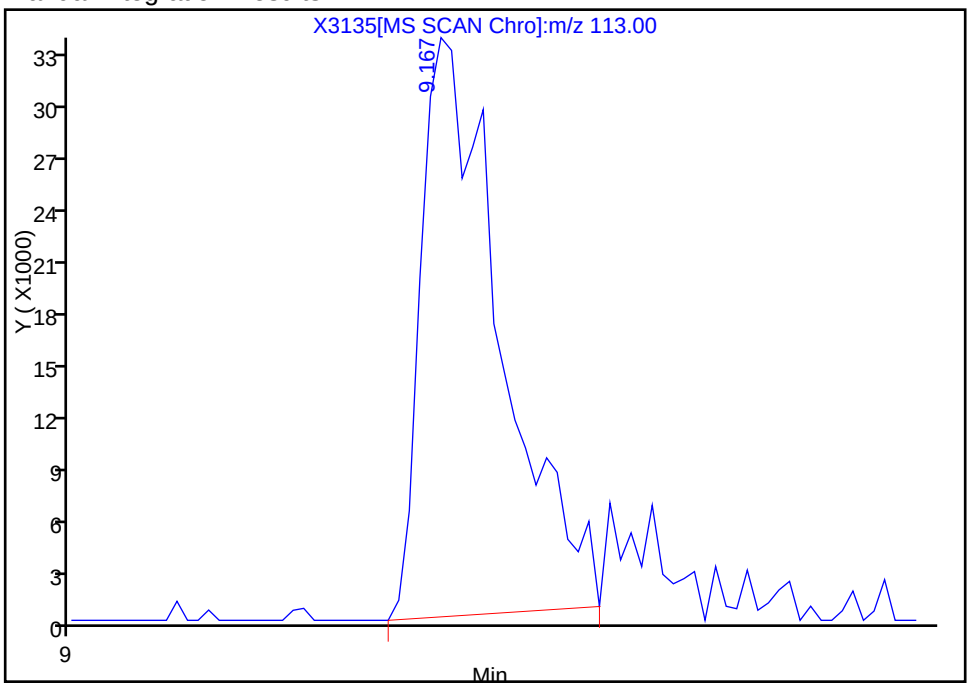
Processing Integration Results

RT: 9.17
Response: 42579
Amount: 3.003738



Manual Integration Results

RT: 9.17
Response: 83067
Amount: 4.668063



Reviewer: mckernar, 18-Dec-2012 13:38:28
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

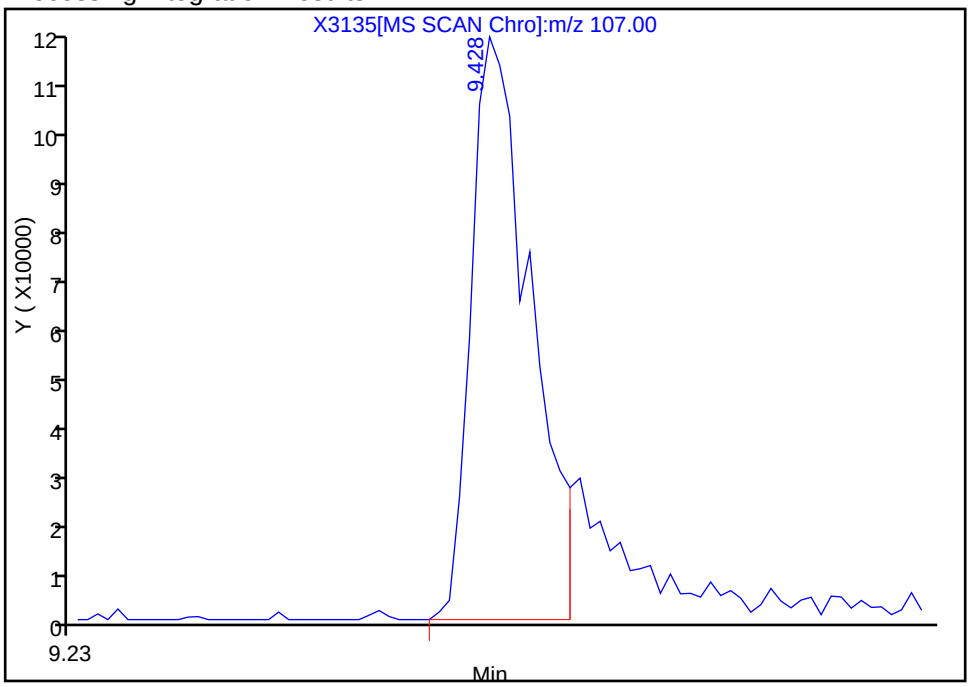
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3135.D		
Injection Date:	18-Dec-2012 13:01:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	6
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

55 4-Chloro-3-methylphenol, Signal: 1, m/z: 107.0 Type: quant, RT: 9.43

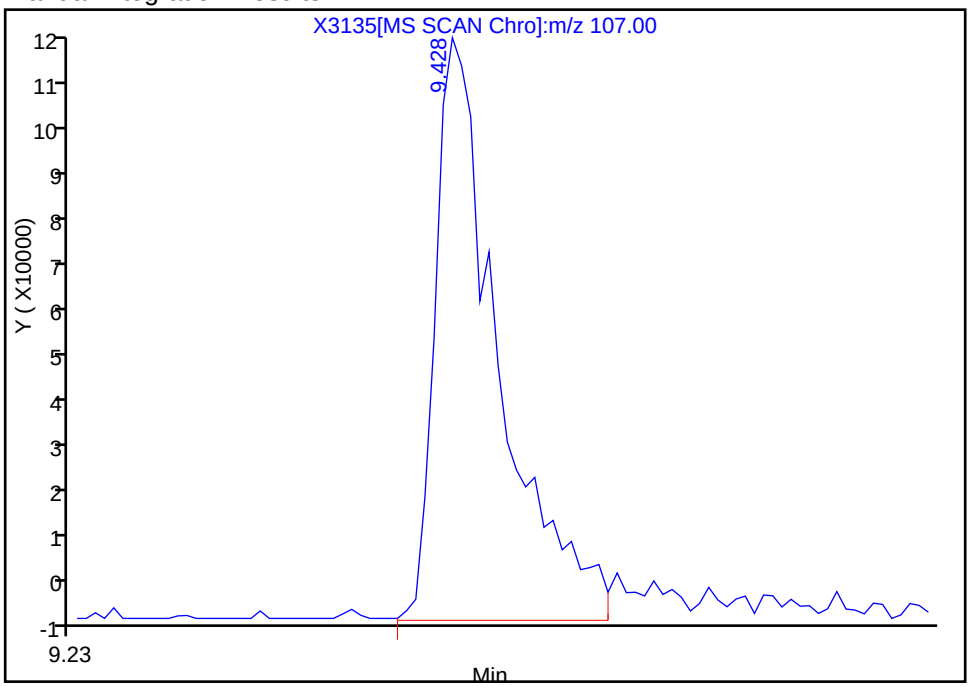
Processing Integration Results

RT: 9.43
Response: 232490
Amount: 4.795588



Manual Integration Results

RT: 9.43
Response: 273525
Amount: 5.063864



Reviewer: mckernar, 18-Dec-2012 13:38:28
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:10 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

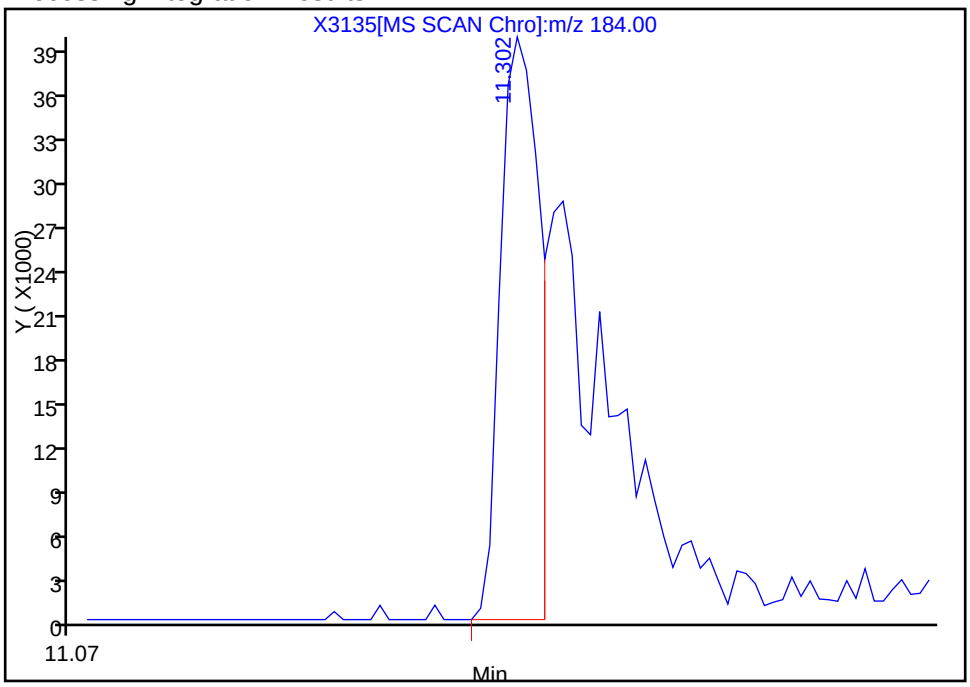
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3135.D		
Injection Date:	18-Dec-2012 13:01:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	6
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

72 2,4-Dinitrophenol, Signal: 1, m/z: 184.0 Type: quant, RT: 11.30

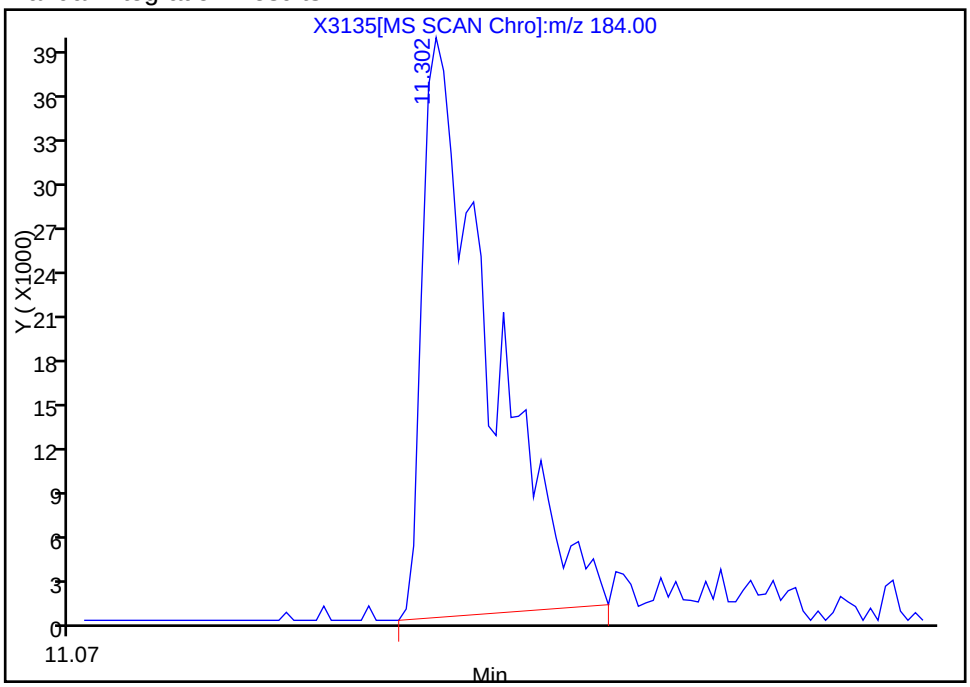
Processing Integration Results

RT: 11.30
Response: 56625
Amount: 8.073030



Manual Integration Results

RT: 11.30
Response: 117671
Amount: 9.684066



Reviewer: mckernar, 18-Dec-2012 13:38:28
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:10 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

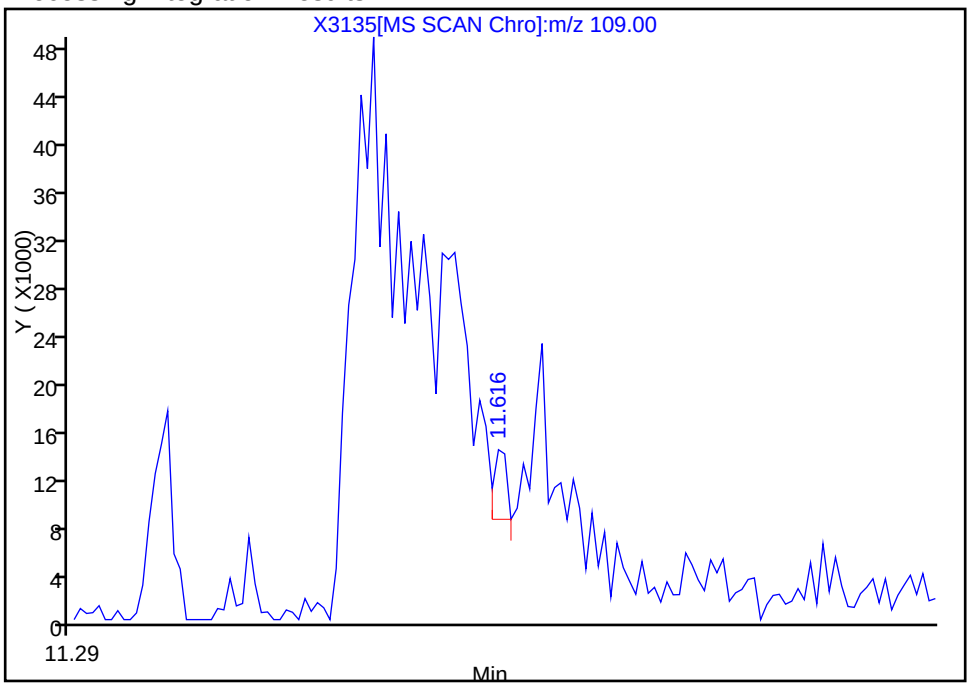
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3135.D		
Injection Date:	18-Dec-2012 13:01:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	6
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

75 4-Nitrophenol, Signal: 1, m/z: 109.0 Type: quant, RT: 11.52

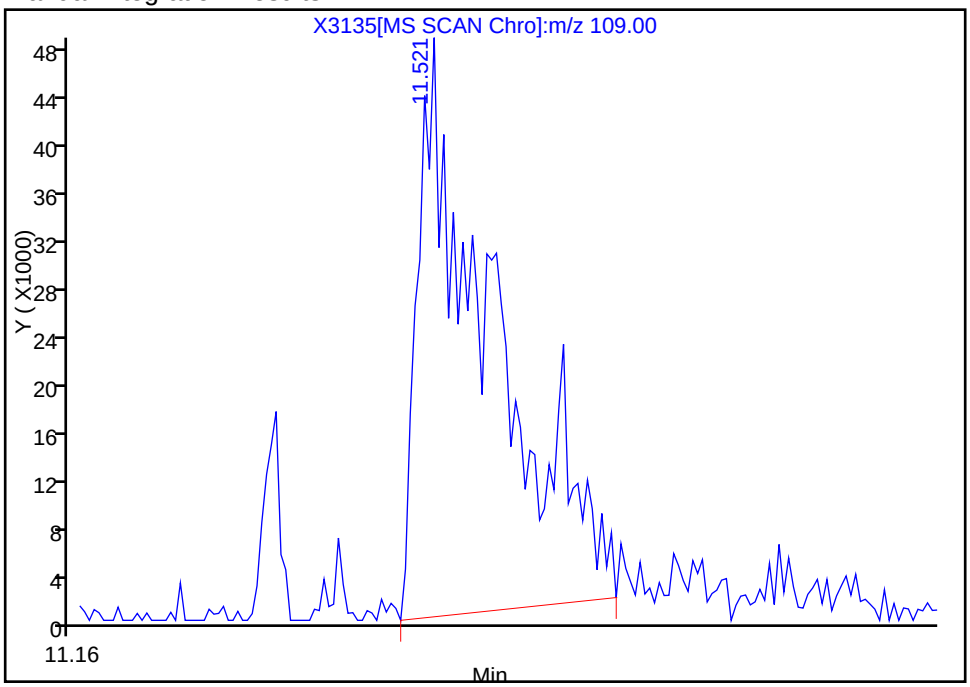
Processing Integration Results

RT: 11.62
Response: 3899
Amount: 0.281055



Manual Integration Results

RT: 11.52
Response: 240901
Amount: 8.293084



Reviewer: mckernar, 18-Dec-2012 13:39:45
Audit Action: Manually Integrated
Audit Reason: Assign Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3136.D		
Lims ID:	IC - 8.0	Client ID:	
Inject. Date:	18-Dec-2012 13:27:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	480-0017654-007		
Misc. Info.:			
Operator:	ANM	Instrument ID:	HP5973X
Injection Vol:	1.0 ul	ALS Bottle#:	8
Lims Batch ID:	96347	Lims Sample ID:	7
Sublist:	chrom-X-8270LL*sub20		
Detector:	MS SCAN		

Method:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X-8270LL.m		
Last Update:	18-Dec-2012 16:43:12	Calib Date:	18-Dec-2012 14:44:30
Quant Method:	Internal Standard	Quant By:	Continuing Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3139.D		
Limit Group:	MB - 8270RCP_MCP ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm
Process Host:	XAWRK017		

First Level Reviewer: mckernar Date: 18-Dec-2012 16:43:12

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.560	6.580	-0.020	86	339895	5.00	
* 2 Naphthalene-d8	136	8.453	8.472	-0.019	97	1271115	5.00	
* 3 Acenaphthene-d10	164	11.092	11.107	-0.015	91	816164	5.00	
* 4 Phenanthrene-d10	188	13.109	13.123	-0.014	97	1402321	5.00	
* 5 Chrysene-d12	240	15.748	15.763	-0.015	86	1192453	5.00	
* 6 Perylene-d12	264	17.032	17.028	0.004	98	1194928	5.00	
$ 7 2-Fluorophenol	112	4.668	4.692	-0.024	72	654708	8.49	
$ 8 Phenol-d5	99	6.075	6.099	-0.024	86	844048	8.99	
$ 9 Nitrobenzene-d5	82	7.397	7.417	-0.020	82	822289	8.63	
$ 10 2-Fluorobiphenyl	172	10.099	10.113	-0.014	94	1780602	8.69	
$ 11 2,4,6-Tribromophenol	330	12.258	12.277	-0.019	70	212336	8.23	
$ 12 p-Terphenyl-d14	244	14.783	14.797	-0.014	95	1943117	8.45	
18 1,4-Dioxane	88	2.442	2.461	-0.019	69	274129	7.88	
19 N-Nitrosodimethylamine	42	2.775	2.804	-0.029	57	481999	7.76	
20 Pyridine	52	2.837	2.865	-0.028	83	533896	8.47	
21 Benzaldehyde	77	5.923	5.942	-0.019	89	585331	8.79	
23 Aniline	93	6.090	6.109	-0.019	83	1067055	8.57	
22 Phenol	94	6.094	6.123	-0.029	32	879706	8.50	
24 Bis(2-chloroethyl)ether	93	6.189	6.213	-0.024	98	706760	8.67	
25 2-Chlorophenol	128	6.256	6.280	-0.024	99	756039	8.59	
26 1,3-Dichlorobenzene	146	6.470	6.489	-0.019	97	874752	8.01	
27 1,4-Dichlorobenzene	146	6.584	6.608	-0.024	80	853150	7.82	
29 1,2-Dichlorobenzene	146	6.803	6.822	-0.019	83	824565	8.11	
28 Benzyl alcohol	108	6.803	6.822	-0.019	78	284927	8.83	M
32 2,2'-oxybis[1-chloropropane]	45	6.998	7.012	-0.014	70	1078723	8.14	M
31 2-Methylphenol	108	6.988	7.008	-0.020	74	625380	8.46	
33 Acetophenone	105	7.174	7.198	-0.024	94	1079098	8.56	
34 N-Nitrosodi-n-propylamine	70	7.188	7.203	-0.015	81	549733	8.68	
36 4-Methylphenol	108	7.231	7.260	-0.029	76	663847	8.87	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
37 Hexachloroethane	117	7.298	7.317	-0.019	94	347801	8.04	
38 Nitrobenzene	77	7.426	7.445	-0.019	77	870162	8.80	
40 Isophorone	82	7.787	7.806	-0.019	77	1395972	8.58	
41 2-Nitrophenol	139	7.901	7.921	-0.020	90	394353	8.76	
43 2,4-Dimethylphenol	107	8.016	8.040	-0.024	87	679754	8.00	
45 Bis(2-chloroethoxy)methane	93	8.134	8.154	-0.020	99	828733	8.60	
44 Benzoic acid	105	8.201	8.225	-0.024	79	336624	7.83	
47 2,4-Dichlorophenol	162	8.291	8.315	-0.024	84	623483	9.02	
48 1,2,4-Trichlorobenzene	180	8.377	8.396	-0.019	97	692492	8.15	
49 Naphthalene	128	8.486	8.506	-0.020	94	2267220	8.05	
51 4-Chloroaniline	127	8.615	8.634	-0.019	91	920833	9.04	
52 Hexachlorobutadiene	225	8.681	8.701	-0.020	84	381102	8.21	
54 Caprolactam	113	9.152	9.167	-0.015	76	213982	8.51	
55 4-Chloro-3-methylphenol	107	9.404	9.428	-0.024	95	660073	8.65	
56 2-Methylnaphthalene	142	9.533	9.547	-0.014	79	1614748	8.18	
57 1-Methylnaphthalene	142	9.675	9.694	-0.019	94	1445623	7.95	
58 Hexachlorocyclopentadiene	237	9.766	9.780	-0.014	88	268404	8.82	
59 1,2,4,5-Tetrachlorobenzene	216	9.789	9.804	-0.015	88	629812	8.23	
60 2,4,6-Trichlorophenol	196	9.989	10.013	-0.024	94	423301	8.98	
61 2,4,5-Trichlorophenol	196	10.075	10.108	-0.033	92	387150	8.49	
62 1,1'-Biphenyl	154	10.246	10.260	-0.014	99	1980431	8.39	
63 2-Chloronaphthalene	162	10.289	10.303	-0.014	95	1457956	7.98	
64 Phenyl ether	170	10.408	10.422	-0.014	93	1031531	8.04	
65 2-Nitroaniline	65	10.465	10.484	-0.019	81	487023	9.01	
66 1,4-Dinitrobenzene	75	10.693	10.717	-0.024	83	318305	0	
67 Dimethyl phthalate	163	10.750	10.764	-0.014	94	1765594	8.36	
68 2,6-Dinitrotoluene	165	10.836	10.850	-0.014	92	832086	8.69	
69 Acenaphthylene	152	10.878	10.893	-0.015	89	2328468	8.16	
70 3-Nitroaniline	138	11.102	11.126	-0.024	91	424215	8.92	
71 Acenaphthene	153	11.140	11.154	-0.014	89	1522028	7.66	
72 2,4-Dinitrophenol	184	11.268	11.302	-0.034	88	362929	18.2	
73 Dibenzofuran	168	11.406	11.425	-0.019	98	2086550	8.60	
74 2,4-Dinitrotoluene	165	11.444	11.468	-0.024	1	556737	9.11	
75 4-Nitrophenol	109	11.478	11.521	-0.043	35	742608	18.2	M
76 2,3,4,6-Tetrachlorophenol	232	11.630	11.649	-0.019	86	354070	9.65	
78 Diethyl phthalate	149	11.806	11.820	-0.014	92	1906615	8.24	
79 Fluorene	166	11.910	11.930	-0.020	81	1869207	8.43	
80 4-Chlorophenyl phenyl ether	204	11.929	11.944	-0.015	87	786759	8.01	
81 4-Nitroaniline	138	12.010	12.039	-0.029	82	429983	8.20	
82 4,6-Dinitro-2-methylphenol	198	12.039	12.063	-0.024	72	599821	17.1	
84 Diphenylamine	169	12.105	12.120	-0.015	98	2811342	8.61	
83 N-Nitrosodiphenylamine	169	12.105	12.120	-0.015	98	2811342	8.62	
16 1,2-Diphenylhydrazine	77	12.148	12.163	-0.015	95	1848610	8.77	
85 Azobenzene	77	12.148	12.163	-0.015	96	1848610	8.79	
86 Benzophenone	105	12.172	12.186	-0.014	99	1589648	8.19	
89 4-Bromophenyl phenyl ether	248	12.576	12.591	-0.015	87	449135	8.54	
91 Hexachlorobenzene	284	12.638	12.652	-0.014	77	457006	8.25	
92 Simazine	201	12.790	12.800	-0.010	84	266586	0	
93 Atrazine	200	12.828	12.838	-0.010	89	1022023	16.6	
95 Pentachloronitrobenzene	237	12.904	12.923	-0.019	84	248006	8.39	
94 Pentachlorophenol	266	12.909	12.928	-0.019	75	454013	16.8	
97 Phenanthrene	178	13.133	13.152	-0.019	95	2527721	8.09	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
98 Anthracene	178	13.194	13.214	-0.020	95	2585516	8.12	
99 Carbazole	167	13.404	13.418	-0.014	98	2442448	8.27	
101 Alachlor	160	13.551	13.565	-0.014	92	527446	0	
102 Di-n-butyl phthalate	149	13.789	13.803	-0.014	96	2901712	8.48	
104 Fluoranthene	202	14.412	14.426	-0.014	97	2561675	8.28	
105 Benzidine	184	14.578	14.593	-0.015	99	967877	7.35	
106 Pyrene	202	14.631	14.650	-0.019	97	2601583	8.14	
107 Famphur	218	15.187	15.197	-0.010	82	1035771	0	
108 Butyl benzyl phthalate	149	15.230	15.244	-0.014	94	1505198	8.52	
110 Bis(2-ethylhexyl) phthalate	149	15.724	15.734	-0.010	95	1973002	8.11	
109 3,3'-Dichlorobenzidine	252	15.724	15.734	-0.010	70	954780	8.91	
111 Benzo[a]anthracene	228	15.739	15.748	-0.009	97	2260080	8.80	
112 Chrysene	228	15.772	15.786	-0.014	92	2128833	7.31	
113 Di-n-octyl phthalate	149	16.262	16.271	-0.009	97	3000016	7.82	
114 Benzo[b]fluoranthene	252	16.671	16.676	-0.005	94	2362892	8.51	
115 Benzo[k]fluoranthene	252	16.695	16.699	-0.005	98	2403639	8.41	
116 Benzo[a]pyrene	252	16.975	16.975	0.0	73	2088226	7.78	
118 Dibenz(a,h)anthracene	278	18.102	18.093	0.009	54	2044151	8.41	
117 Indeno[1,2,3-cd]pyrene	276	18.102	18.088	0.014	94	2410742	8.42	
119 Benzo[g,h,i]perylene	276	18.416	18.402	0.014	92	1994596	8.35	
S 121 3-Methylphenol	1		0.000					

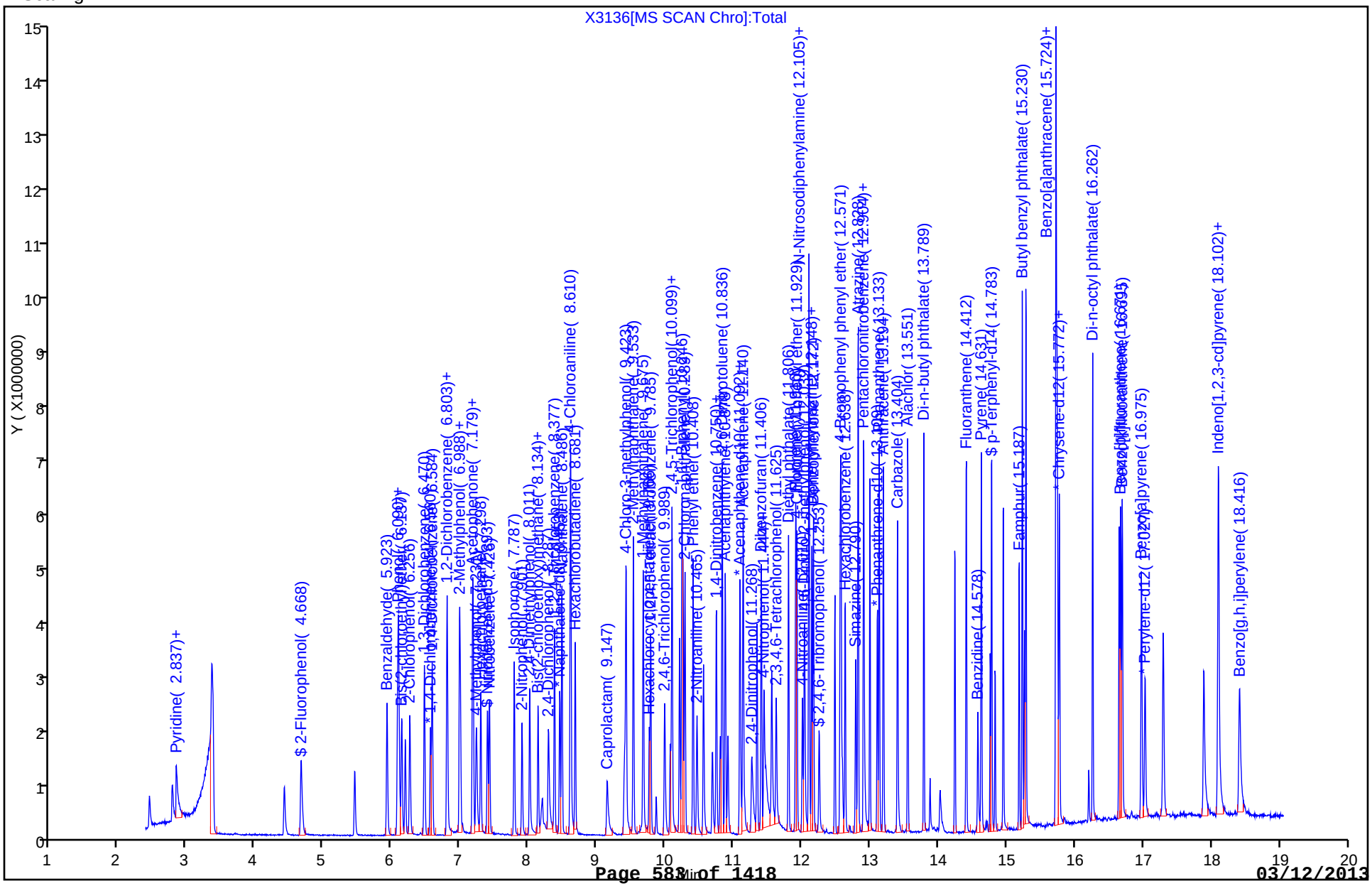
QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 18-Dec-2012 16:43:13 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3136.D		
Injection Date:	18-Dec-2012 13:27:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	7
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm
Y Scaling:			



Manual Integration/User Assign Peak Report

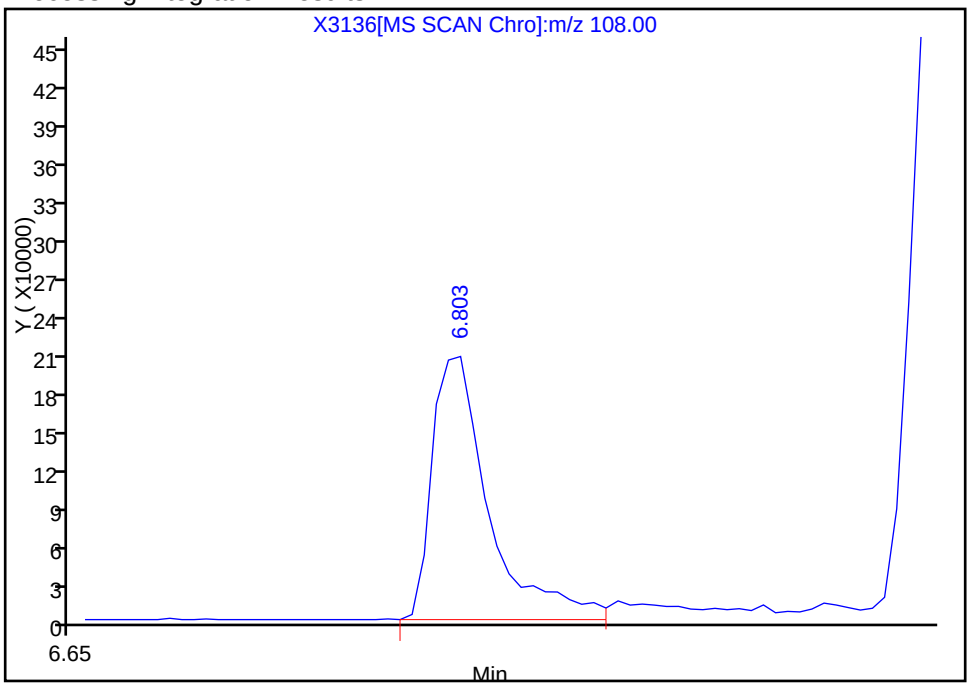
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3136.D		
Injection Date:	18-Dec-2012 13:27:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	7
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

28 Benzyl alcohol, Signal: 1, m/z: 108.0 Type: quant, RT: 6.82

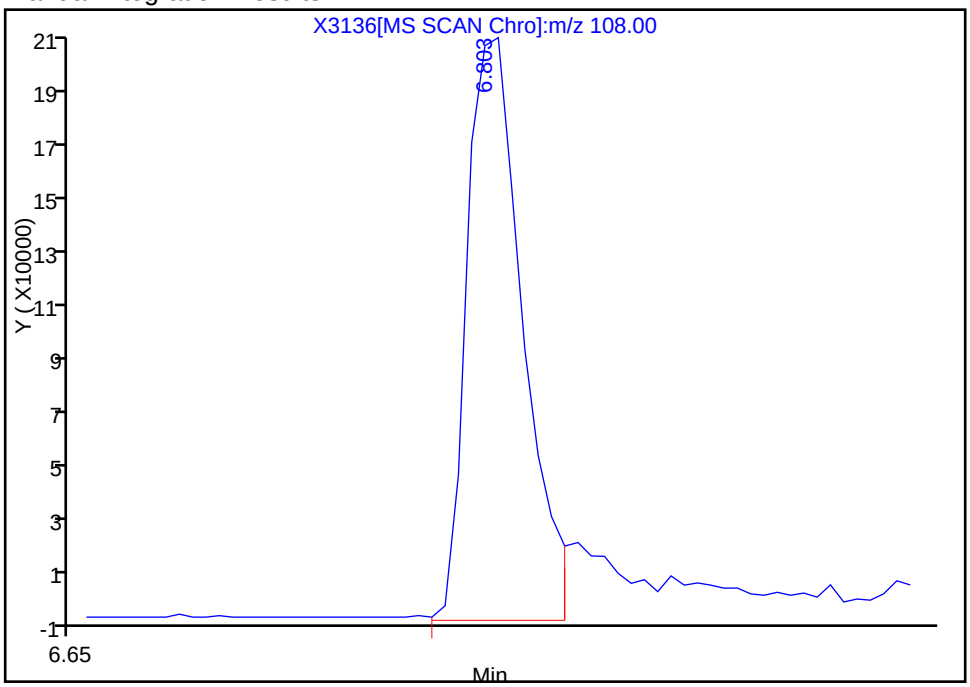
Processing Integration Results

RT: 6.80
Response: 315225
Amount: 10.550089



Manual Integration Results

RT: 6.80
Response: 284927
Amount: 8.829450



Reviewer: mckernar, 18-Dec-2012 15:37:38
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

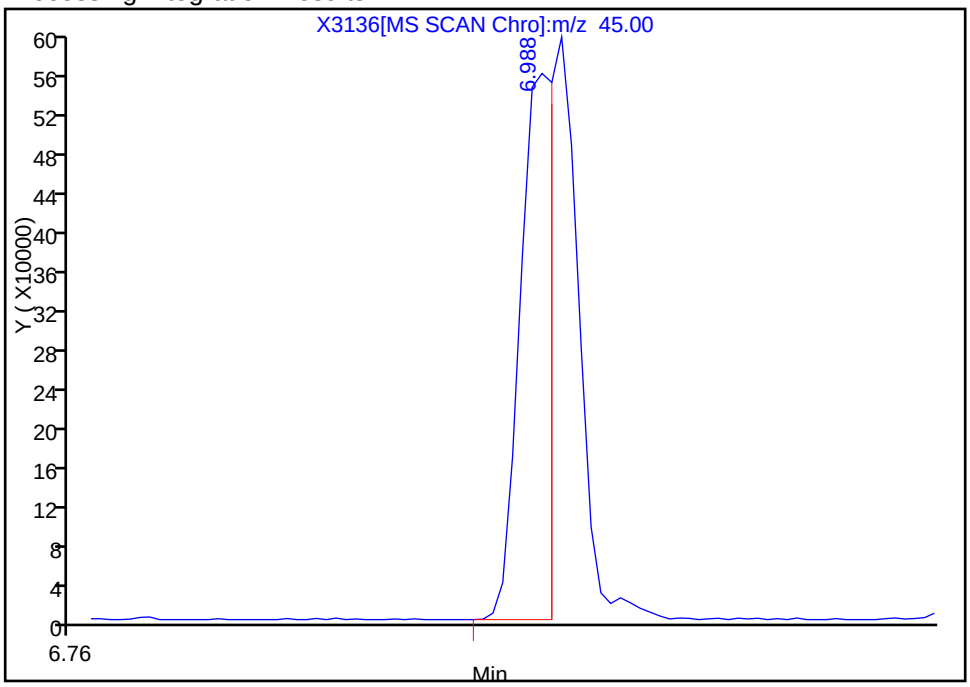
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3136.D		
Injection Date:	18-Dec-2012 13:27:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	7
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

32 2,2'-oxybis[1-chloropropane], Signal: 1, m/z: 45.0 Type: quant, RT: 7.01

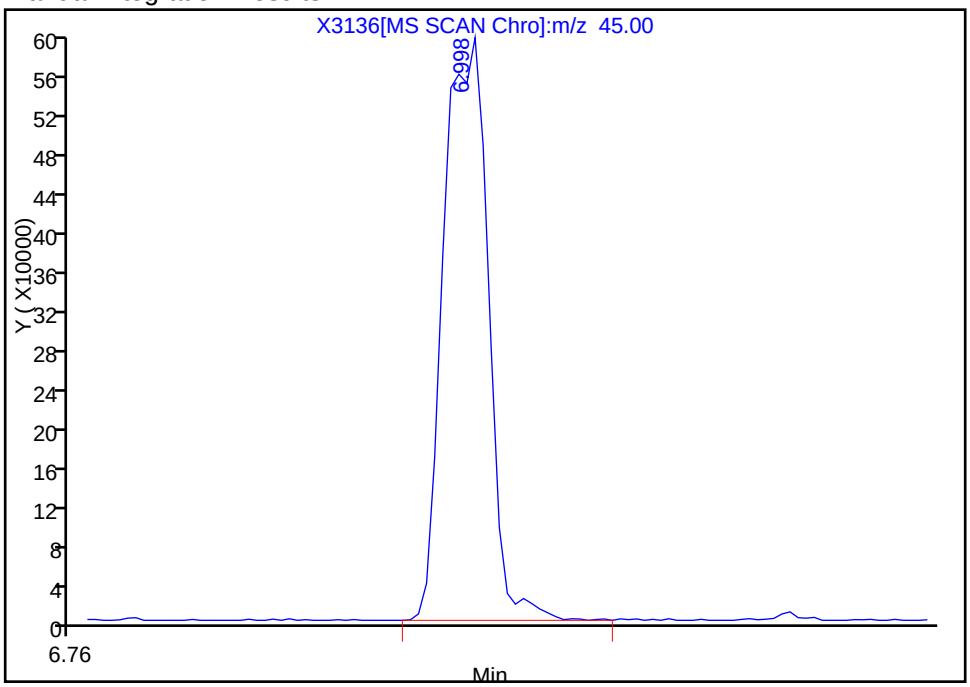
Processing Integration Results

RT: 6.99
Response: 634494
Amount: 5.745350



Manual Integration Results

RT: 7.00
Response: 1078723
Amount: 8.141182



Reviewer: mckernar, 18-Dec-2012 15:19:18
Audit Action: Manually Integrated
Audit Reason: Split Peak

Report Date: 18-Dec-2012 16:43:13 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

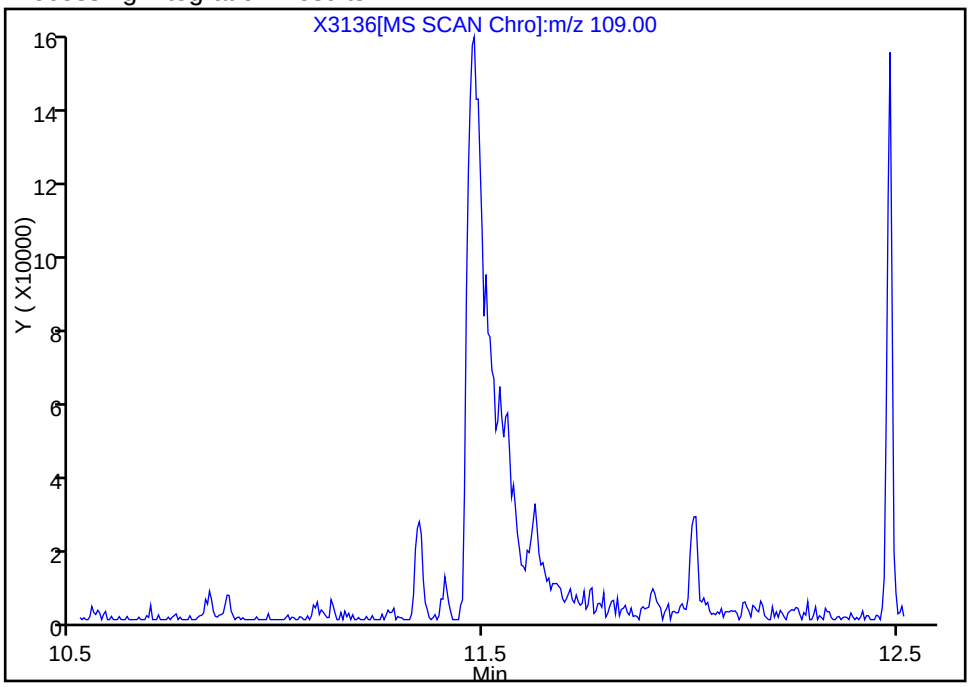
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3136.D		
Injection Date:	18-Dec-2012 13:27:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	7
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

75 4-Nitrophenol, Signal: 1, m/z: 109.0 Type: quant, RT: 11.52

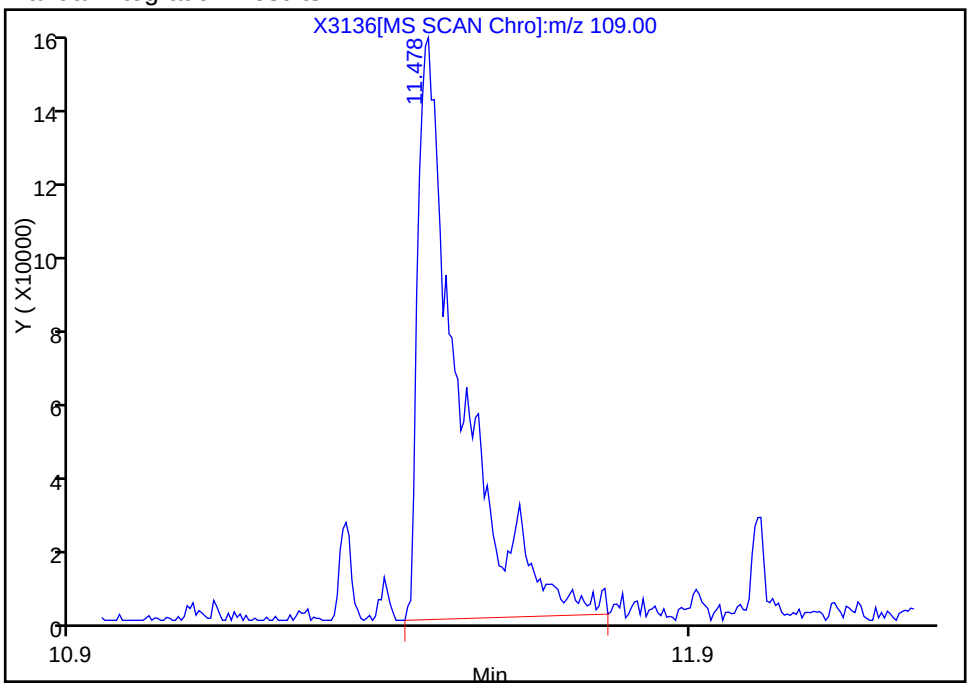
Processing Integration Results

Not Detected
Expected RT: 11.52



Manual Integration Results

RT: 11.48
Response: 742608
Amount: 18.178273



Reviewer: mckernar, 18-Dec-2012 15:24:32
Audit Action: Manually Integrated
Audit Reason: Assign Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3137.D		
Lims ID:	IC - 10	Client ID:	
Inject. Date:	18-Dec-2012 13:52:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	7
Sample ID:	480-0017654-008		
Misc. Info.:			
Operator:	ANM	Instrument ID:	HP5973X
Injection Vol:	1.0 ul	ALS Bottle#:	9
Lims Batch ID:	96347	Lims Sample ID:	8
Sublist:	chrom-X-8270LL*sub20		
Detector:	MS SCAN		

Method:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X-8270LL.m		
Last Update:	18-Dec-2012 16:43:15	Calib Date:	18-Dec-2012 14:44:30
Quant Method:	Internal Standard	Quant By:	Continuing Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3139.D		
Limit Group:	MB - 8270RCP_MCP ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm
Process Host:	XAWRK017		

First Level Reviewer: mckernar Date: 18-Dec-2012 16:43:15

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.575	6.580	-0.005	85	227557	5.00	
* 2 Naphthalene-d8	136	8.468	8.472	-0.004	97	824984	5.00	
* 3 Acenaphthene-d10	164	11.102	11.107	-0.005	90	545305	5.00	
* 4 Phenanthrene-d10	188	13.109	13.123	-0.014	96	947569	5.00	
* 5 Chrysene-d12	240	15.753	15.763	-0.010	86	783530	5.00	
* 6 Perylene-d12	264	17.032	17.028	0.004	97	798922	5.00	
$ 7 2-Fluorophenol	112	4.668	4.692	-0.024	70	551618	10.7	
$ 8 Phenol-d5	99	6.090	6.099	-0.009	91	654753	10.4	
$ 9 Nitrobenzene-d5	82	7.412	7.417	-0.005	83	688051	11.1	
$ 10 2-Fluorobiphenyl	172	10.113	10.113	0.0	95	1394341	10.2	
$ 11 2,4,6-Tribromophenol	330	12.263	12.277	-0.015	58	178118	10.2	
$ 12 p-Terphenyl-d14	244	14.783	14.797	-0.014	94	1581956	10.5	
18 1,4-Dioxane	88	2.437	2.461	-0.024	68	238920	10.3	
19 N-Nitrosodimethylamine	42	2.775	2.804	-0.029	62	427954	10.3	
20 Pyridine	52	2.832	2.865	-0.033	78	472669	11.2	M
21 Benzaldehyde	77	5.938	5.942	-0.004	90	484031	10.9	
23 Aniline	93	6.104	6.109	-0.005	92	898855	10.8	
22 Phenol	94	6.114	6.123	-0.009	44	727444	10.5	
24 Bis(2-chloroethyl)ether	93	6.209	6.213	-0.004	99	566636	10.4	
25 2-Chlorophenol	128	6.270	6.280	-0.010	98	626749	10.6	
26 1,3-Dichlorobenzene	146	6.489	6.489	0.0	97	714124	9.77	
27 1,4-Dichlorobenzene	146	6.603	6.608	-0.005	72	726551	9.95	
29 1,2-Dichlorobenzene	146	6.822	6.822	0.0	83	687435	10.1	
28 Benzyl alcohol	108	6.817	6.822	-0.005	76	204121	9.33	
31 2-Methylphenol	108	7.008	7.008	0.0	72	511538	10.3	
32 2,2'-oxybis[1-chloropropane]	45	7.008	7.012	-0.004	77	883332	9.96	
33 Acetophenone	105	7.193	7.198	-0.005	96	912298	10.8	
34 N-Nitrosodi-n-propylamine	70	7.203	7.203	0.0	89	455997	10.8	
36 4-Methylphenol	108	7.250	7.260	-0.010	78	506328	10.1	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
37 Hexachloroethane	117	7.317	7.317	0.0	95	291465	10.1	
38 Nitrobenzene	77	7.440	7.445	-0.005	78	725852	11.3	
40 Isophorone	82	7.807	7.806	0.001	75	1163254	11.0	
41 2-Nitrophenol	139	7.916	7.921	-0.005	88	334536	11.4	
43 2,4-Dimethylphenol	107	8.030	8.040	-0.010	85	551253	10.0	
45 Bis(2-chloroethoxy)methane	93	8.154	8.154	0.0	100	684999	11.0	
44 Benzoic acid	105	8.211	8.225	-0.014	89	323222	10.7	M
47 2,4-Dichlorophenol	162	8.311	8.315	-0.004	81	492239	11.0	
48 1,2,4-Trichlorobenzene	180	8.391	8.396	-0.005	93	582458	10.6	
49 Naphthalene	128	8.501	8.506	-0.005	93	1855626	10.2	
51 4-Chloroaniline	127	8.629	8.634	-0.005	94	767419	11.6	
52 Hexachlorobutadiene	225	8.696	8.701	-0.005	85	310593	10.3	
54 Caprolactam	113	9.167	9.167	0.0	82	175706	10.8	
55 4-Chloro-3-methylphenol	107	9.419	9.428	-0.009	94	554322	11.2	
56 2-Methylnaphthalene	142	9.547	9.547	0.0	77	1355238	10.6	
57 1-Methylnaphthalene	142	9.690	9.694	-0.004	93	1200320	10.2	
58 Hexachlorocyclopentadiene	237	9.780	9.780	0.0	87	204383	9.87	
59 1,2,4,5-Tetrachlorobenzene	216	9.799	9.804	-0.005	90	509829	9.97	
60 2,4,6-Trichlorophenol	196	10.004	10.013	-0.009	96	337292	10.7	
61 2,4,5-Trichlorophenol	196	10.089	10.108	-0.019	94	310061	10.2	
62 1,1'-Biphenyl	154	10.256	10.260	-0.004	98	1623648	10.3	
63 2-Chloronaphthalene	162	10.303	10.303	0.0	96	1187040	9.86	
64 Phenyl ether	170	10.422	10.422	0.0	95	880313	10.3	
65 2-Nitroaniline	65	10.479	10.484	-0.005	80	414625	11.5	
66 1,4-Dinitrobenzene	75	10.703	10.717	-0.014	80	264150	0	
67 Dimethyl phthalate	163	10.760	10.764	-0.004	93	1466290	10.4	
68 2,6-Dinitrotoluene	165	10.845	10.850	-0.005	90	682331	10.7	
69 Acenaphthylene	152	10.893	10.893	0.0	90	1934738	10.1	
70 3-Nitroaniline	138	11.112	11.126	-0.014	91	344877	10.9	
71 Acenaphthene	153	11.150	11.154	-0.004	89	1279309	9.63	
72 2,4-Dinitrophenol	184	11.283	11.302	-0.019	81	263071	19.3	
73 Dibenzofuran	168	11.416	11.425	-0.009	99	1759046	10.9	
74 2,4-Dinitrotoluene	165	11.459	11.468	-0.009	1	434611	10.6	
75 4-Nitrophenol	109	11.487	11.521	-0.034	36	599830	22.0	M
76 2,3,4,6-Tetrachlorophenol	232	11.635	11.649	-0.014	84	265067	10.8	
78 Diethyl phthalate	149	11.811	11.820	-0.009	93	1570153	10.2	
79 Fluorene	166	11.920	11.930	-0.010	81	1495486	10.1	
80 4-Chlorophenyl phenyl ether	204	11.934	11.944	-0.010	89	690804	10.5	
81 4-Nitroaniline	138	12.020	12.039	-0.019	86	355912	10.1	
82 4,6-Dinitro-2-methylphenol	198	12.048	12.063	-0.015	60	460957	19.5	
84 Diphenylamine	169	12.110	12.120	-0.010	98	2356835	10.7	
83 N-Nitrosodiphenylamine	169	12.110	12.120	-0.010	98	2356835	10.7	
16 1,2-Diphenylhydrazine	77	12.153	12.163	-0.010	95	1504259	10.6	
85 Azobenzene	77	12.153	12.163	-0.010	96	1504259	10.6	
86 Benzophenone	105	12.177	12.186	-0.009	98	1371516	10.6	
89 4-Bromophenyl phenyl ether	248	12.581	12.591	-0.010	85	356637	10.0	
91 Hexachlorobenzene	284	12.643	12.652	-0.009	75	356606	9.52	
92 Simazine	201	12.795	12.800	-0.005	81	221761	0	
93 Atrazine	200	12.828	12.838	-0.010	89	851009	20.7	
95 Pentachloronitrobenzene	237	12.909	12.923	-0.014	84	203475	10.1	
94 Pentachlorophenol	266	12.914	12.928	-0.014	74	350777	19.0	
97 Phenanthrene	178	13.138	13.152	-0.014	95	2095399	9.92	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
98 Anthracene	178	13.199	13.214	-0.015	95	2168904	10.1	
99 Carbazole	167	13.409	13.418	-0.009	99	2048671	10.3	
101 Alachlor	160	13.556	13.565	-0.009	92	432732	0	
102 Di-n-butyl phthalate	149	13.794	13.803	-0.009	96	2480138	10.7	
104 Fluoranthene	202	14.417	14.426	-0.009	97	2140236	10.2	
105 Benzidine	184	14.583	14.593	-0.010	99	948443	11.0	
106 Pyrene	202	14.636	14.650	-0.014	98	2193396	10.4	
107 Famphur	218	15.187	15.197	-0.010	84	815917	0	
108 Butyl benzyl phthalate	149	15.235	15.244	-0.009	94	1240379	10.7	
109 3,3'-Dichlorobenzidine	252	15.725	15.734	-0.009	76	802227	11.4	
110 Bis(2-ethylhexyl) phthalate	149	15.729	15.734	-0.005	96	1684176	10.5	
111 Benzo[a]anthracene	228	15.744	15.748	-0.004	96	1887844	11.2	
112 Chrysene	228	15.777	15.786	-0.009	92	1725366	9.01	
113 Di-n-octyl phthalate	149	16.267	16.271	-0.004	97	2547438	10.1	
114 Benzo[b]fluoranthene	252	16.676	16.676	0.0	94	1995763	10.8	
115 Benzo[k]fluoranthene	252	16.699	16.699	0.0	96	1919421	10.0	
116 Benzo[a]pyrene	252	16.975	16.975	0.0	65	1767745	9.85	
117 Indeno[1,2,3-cd]pyrene	276	18.093	18.088	0.005	94	2018453	10.5	
118 Dibenz(a,h)anthracene	278	18.093	18.093	0.0	47	1672694	10.3	
119 Benzo[g,h,i]perylene	276	18.402	18.402	0.0	96	1495294	9.36	
S 121 3-Methylphenol	1		0.000					

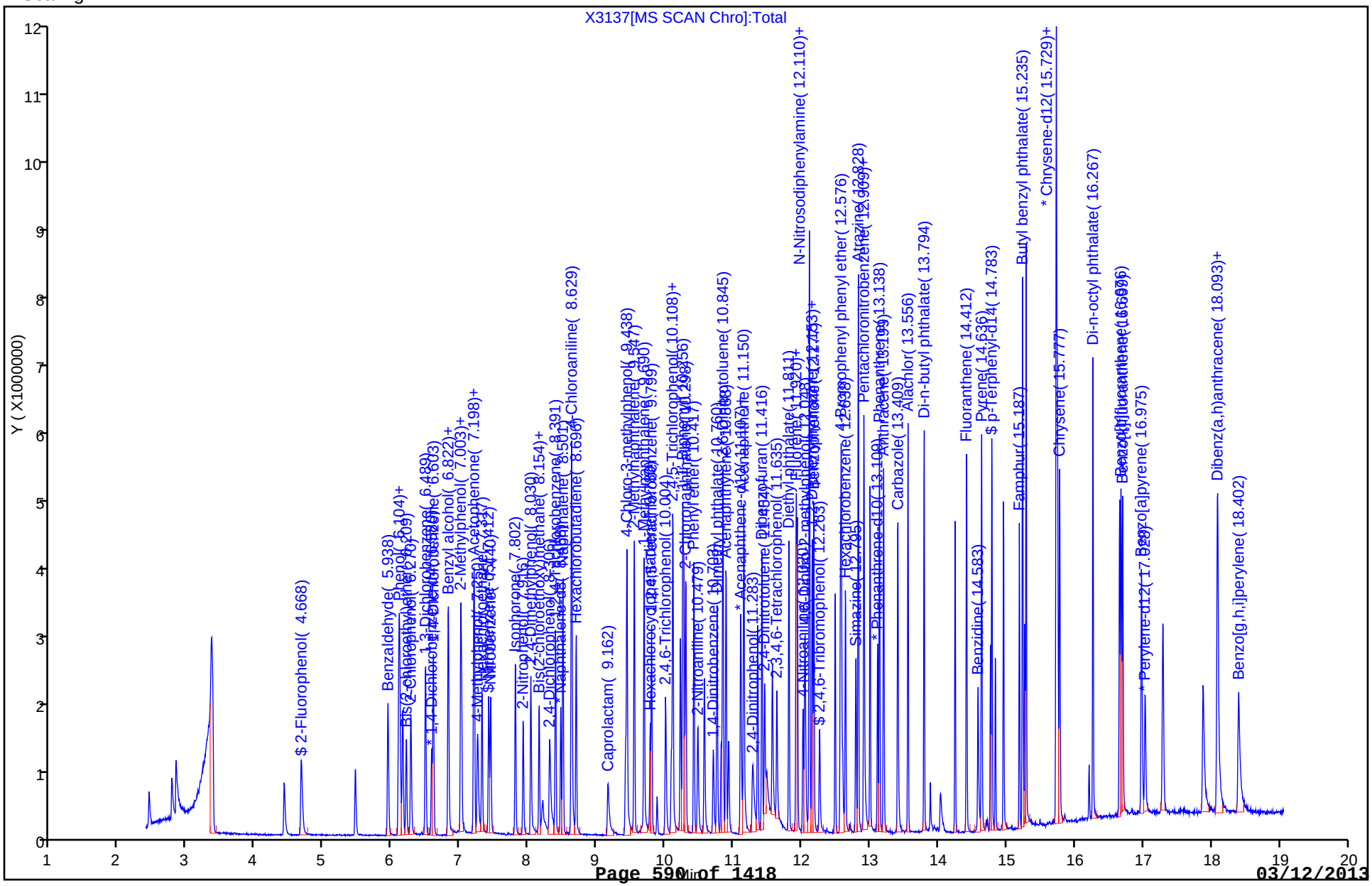
QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 18-Dec-2012 16:43:15 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3137.D		
Injection Date:	18-Dec-2012 13:52:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	8
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm
Y Scaling:			



Report Date: 18-Dec-2012 16:43:15 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

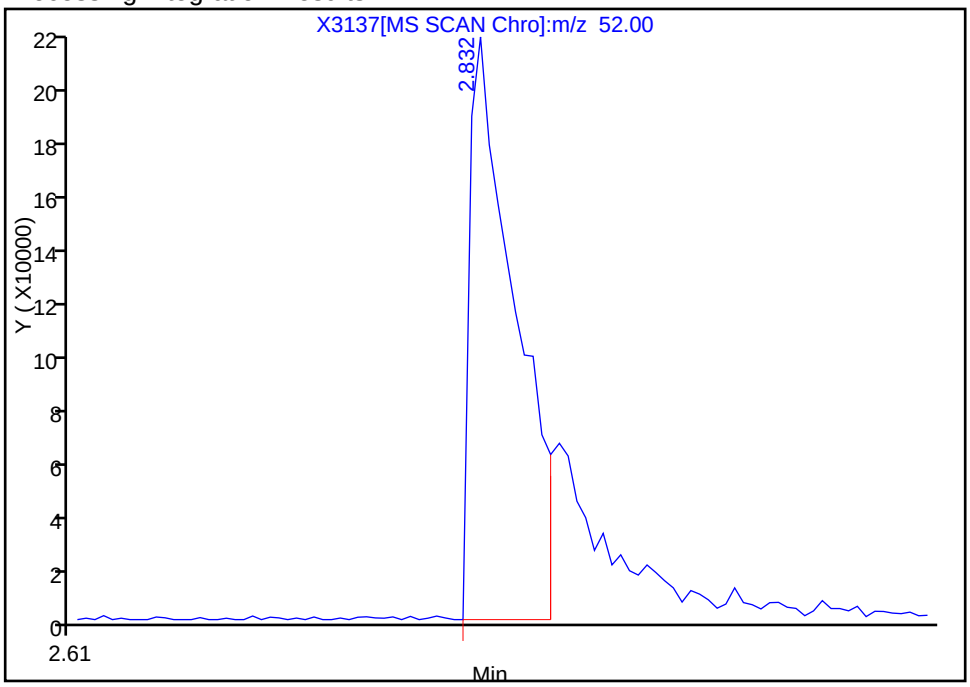
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3137.D		
Injection Date:	18-Dec-2012 13:52:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	8
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

20 Pyridine, Signal: 1, m/z: 52.0 Type: quant, RT: 2.87

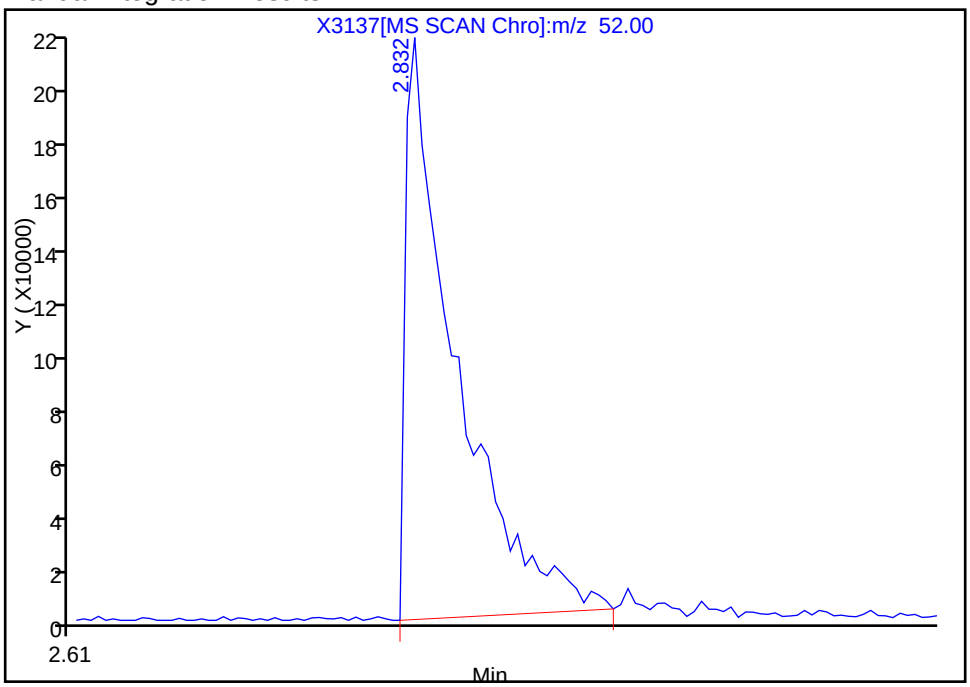
Processing Integration Results

RT: 2.83
Response: 365433
Amount: 8.599411



Manual Integration Results

RT: 2.83
Response: 472669
Amount: 11.196884



Reviewer: mckernar, 18-Dec-2012 15:21:58
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

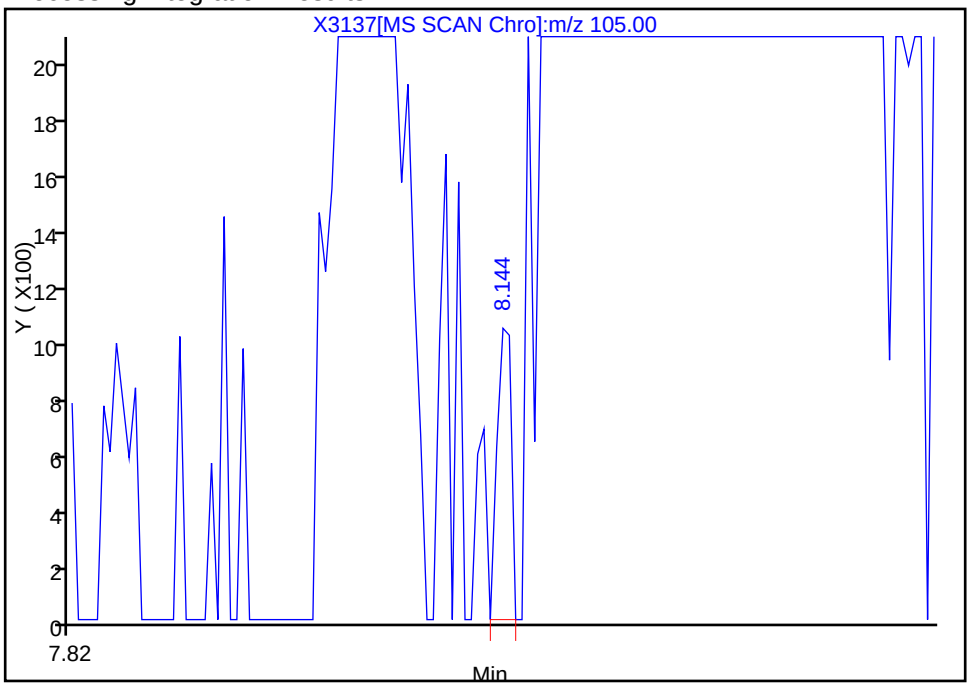
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3137.D		
Injection Date:	18-Dec-2012 13:52:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	8
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

44 Benzoic acid, Signal: 1, m/z: 105.0 Type: quant, RT: 8.22

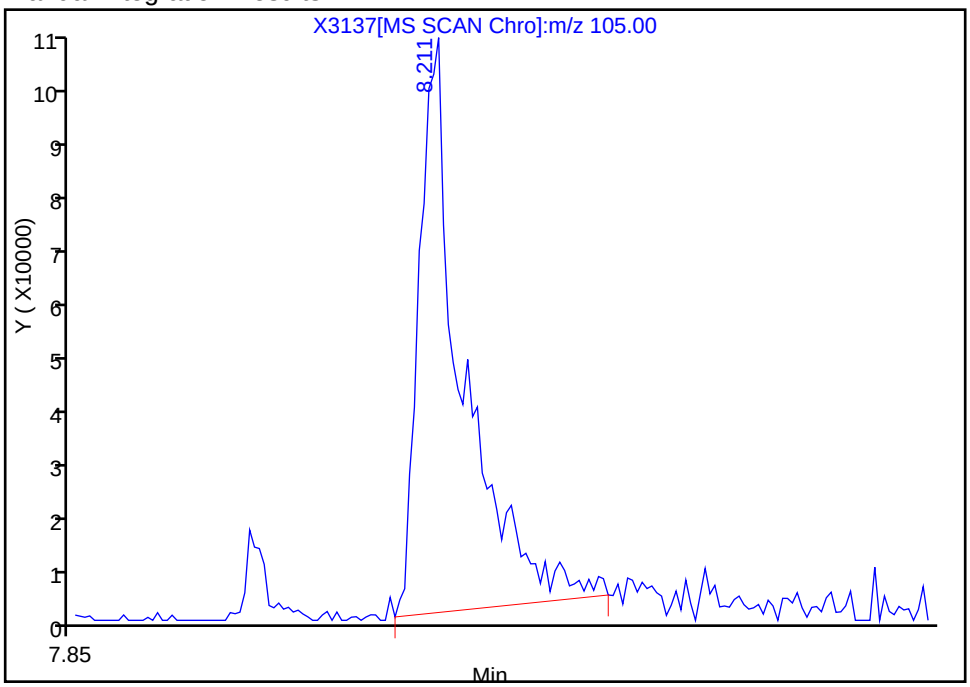
Processing Integration Results

RT: 8.14
Response: 757
Amount: 0.060539



Manual Integration Results

RT: 8.21
Response: 323222
Amount: 10.683361



Reviewer: mckernar, 18-Dec-2012 15:21:58
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:15 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

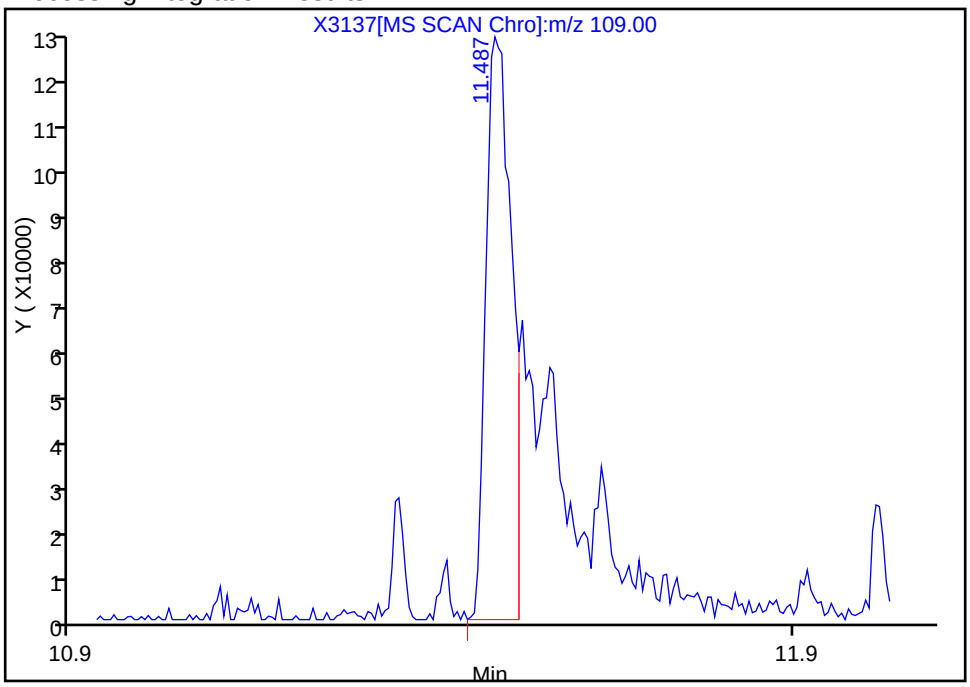
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3137.D		
Injection Date:	18-Dec-2012 13:52:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	8
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

75 4-Nitrophenol, Signal: 1, m/z: 109.0 Type: quant, RT: 11.52

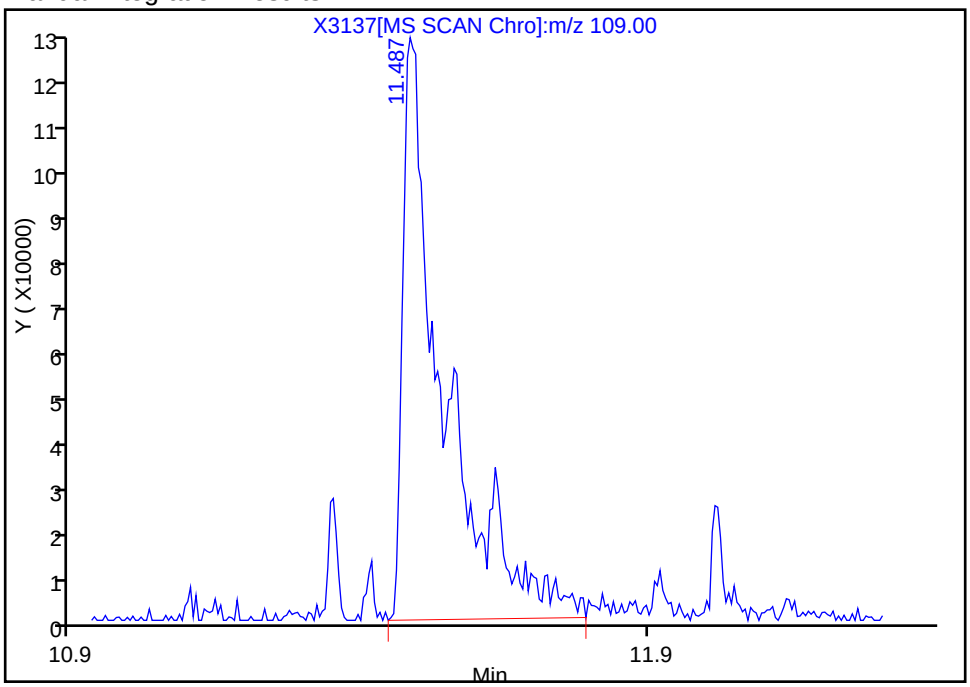
Processing Integration Results

RT: 11.49
Response: 302318
Amount: 19.639800



Manual Integration Results

RT: 11.49
Response: 599830
Amount: 21.976531



Reviewer: mckernar, 18-Dec-2012 15:24:21
Audit Action: Manually Integrated
Audit Reason: Assign Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3138.D		
Lims ID:	IC - 15	Client ID:	
Inject. Date:	18-Dec-2012 14:18:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	8
Sample ID:	480-0017654-009		
Misc. Info.:			
Operator:	ANM	Instrument ID:	HP5973X
Injection Vol:	1.0 ul	ALS Bottle#:	10
Lims Batch ID:	96347	Lims Sample ID:	9
Sublist:	chrom-X-8270LL*sub20		
Detector:	MS SCAN		

Method:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X-8270LL.m		
Last Update:	18-Dec-2012 16:43:18	Calib Date:	18-Dec-2012 14:44:30
Quant Method:	Internal Standard	Quant By:	Continuing Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3139.D		
Limit Group:	MB - 8270RCP_MCP ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm
Process Host:	XAWRK017		

First Level Reviewer: mckernar Date: 18-Dec-2012 16:43:18

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.541	6.580	-0.039	85	230656	5.00	
* 2 Naphthalene-d8	136	8.444	8.472	-0.028	97	886350	5.00	
* 3 Acenaphthene-d10	164	11.097	11.107	-0.010	90	582063	5.00	
* 4 Phenanthrene-d10	188	13.114	13.123	-0.009	97	958605	5.00	
* 5 Chrysene-d12	240	15.753	15.763	-0.010	89	851973	5.00	
* 6 Perylene-d12	264	17.013	17.028	-0.015	96	831712	5.00	
$ 7 2-Fluorophenol	112	4.634	4.692	-0.058	74	876197	16.7	
$ 8 Phenol-d5	99	6.056	6.099	-0.043	87	1090919	17.1	
$ 9 Nitrobenzene-d5	82	7.378	7.417	-0.039	84	1131674	17.0	
$ 10 2-Fluorobiphenyl	172	10.099	10.113	-0.014	95	2307495	15.8	
$ 11 2,4,6-Tribromophenol	330	12.262	12.277	-0.015	78	302392	17.1	
$ 12 p-Terphenyl-d14	244	14.783	14.797	-0.014	95	2494236	15.2	
18 1,4-Dioxane	88	2.414	2.461	-0.047	65	349464	14.9	
19 N-Nitrosodimethylamine	42	2.746	2.804	-0.058	62	610901	14.5	
20 Pyridine	52	2.803	2.865	-0.062	81	753190	17.6	
21 Benzaldehyde	77	5.899	5.942	-0.043	90	722290	16.0	
23 Aniline	93	6.066	6.109	-0.043	86	1390701	16.5	
22 Phenol	94	6.075	6.123	-0.048	34	1169263	16.6	
24 Bis(2-chloroethyl)ether	93	6.170	6.213	-0.043	97	895601	16.2	
25 2-Chlorophenol	128	6.237	6.280	-0.043	98	970541	16.2	
26 1,3-Dichlorobenzene	146	6.451	6.489	-0.038	97	1144885	15.5	
27 1,4-Dichlorobenzene	146	6.565	6.608	-0.043	73	1189909	16.1	
29 1,2-Dichlorobenzene	146	6.789	6.822	-0.033	84	1093976	15.9	
28 Benzyl alcohol	108	6.779	6.822	-0.043	86	357574	14.3	
31 2-Methylphenol	108	6.969	7.008	-0.039	77	819659	16.3	
32 2,2'-oxybis[1-chloropropane]	45	6.984	7.012	-0.028	69	1395123	15.5	M
33 Acetophenone	105	7.160	7.198	-0.038	96	1479202	17.3	
34 N-Nitrosodi-n-propylamine	70	7.174	7.203	-0.029	78	722699	16.8	
36 4-Methylphenol	108	7.217	7.260	-0.043	80	791119	15.6	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
37 Hexachloroethane	117	7.278	7.317	-0.039	93	447097	15.3	
38 Nitrobenzene	77	7.407	7.445	-0.038	75	1153942	16.7	
40 Isophorone	82	7.773	7.806	-0.033	74	1848060	16.3	
41 2-Nitrophenol	139	7.887	7.921	-0.034	90	521090	16.6	
43 2,4-Dimethylphenol	107	7.997	8.040	-0.043	86	891742	15.1	
45 Bis(2-chloroethoxy)methane	93	8.125	8.154	-0.029	100	1072679	16.0	
44 Benzoic acid	105	8.196	8.225	-0.029	1	519009	14.5	
47 2,4-Dichlorophenol	162	8.277	8.315	-0.038	85	788203	16.4	
48 1,2,4-Trichlorobenzene	180	8.363	8.396	-0.033	97	903943	15.3	
49 Naphthalene	128	8.472	8.506	-0.034	94	2887977	14.7	
51 4-Chloroaniline	127	8.601	8.634	-0.034	95	1194419	16.8	
52 Hexachlorobutadiene	225	8.672	8.701	-0.029	84	495575	15.3	
54 Caprolactam	113	9.147	9.167	-0.020	80	299627	17.1	
55 4-Chloro-3-methylphenol	107	9.399	9.428	-0.029	94	866986	16.3	
56 2-Methylnaphthalene	142	9.528	9.547	-0.019	80	2146729	15.6	
57 1-Methylnaphthalene	142	9.675	9.694	-0.019	95	1956456	15.4	
58 Hexachlorocyclopentadiene	237	9.766	9.780	-0.014	88	378558	15.6	
59 1,2,4,5-Tetrachlorobenzene	216	9.785	9.804	-0.019	93	861450	15.8	
60 2,4,6-Trichlorophenol	196	9.989	10.013	-0.024	97	551924	16.4	
61 2,4,5-Trichlorophenol	196	10.075	10.108	-0.033	97	522303	16.1	
62 1,1'-Biphenyl	154	10.246	10.260	-0.014	99	2539483	15.1	
63 2-Chloronaphthalene	162	10.289	10.303	-0.014	96	1959232	15.6	
64 Phenyl ether	170	10.412	10.422	-0.010	94	1381412	15.1	
65 2-Nitroaniline	65	10.465	10.484	-0.019	82	680120	17.6	
66 1,4-Dinitrobenzene	75	10.693	10.717	-0.024	83	436695	0	
67 Dimethyl phthalate	163	10.755	10.764	-0.009	94	2327603	15.5	
68 2,6-Dinitrotoluene	165	10.840	10.850	-0.010	89	1103880	16.2	
69 Acenaphthylene	152	10.883	10.893	-0.010	90	3043882	15.0	
70 3-Nitroaniline	138	11.102	11.126	-0.024	82	606310	17.9	
71 Acenaphthene	153	11.145	11.154	-0.009	89	2009024	14.2	
72 2,4-Dinitrophenol	184	11.268	11.302	-0.034	86	495556	29.3	
73 Dibenzofuran	168	11.411	11.425	-0.014	98	2713459	15.7	
74 2,4-Dinitrotoluene	165	11.454	11.468	-0.014	1	751696	17.2	
75 4-Nitrophenol	109	11.468	11.521	-0.053	30	1031347	35.4	M
76 2,3,4,6-Tetrachlorophenol	232	11.630	11.649	-0.019	81	363823	13.9	
78 Diethyl phthalate	149	11.815	11.820	-0.005	93	2463981	14.9	
79 Fluorene	166	11.915	11.930	-0.015	80	2378424	15.0	
80 4-Chlorophenyl phenyl ether	204	11.934	11.944	-0.010	85	1051673	15.0	
81 4-Nitroaniline	138	12.015	12.039	-0.024	83	596014	15.6	
82 4,6-Dinitro-2-methylphenol	198	12.048	12.063	-0.015	64	797804	31.0	
84 Diphenylamine	169	12.115	12.120	-0.005	96	3579551	16.0	
83 N-Nitrosodiphenylamine	169	12.115	12.120	-0.005	96	3579551	16.1	
16 1,2-Diphenylhydrazine	77	12.153	12.163	-0.010	95	2548510	17.7	
85 Azobenzene	77	12.153	12.163	-0.010	95	2548510	17.7	
86 Benzophenone	105	12.177	12.186	-0.009	96	1996456	14.4	
89 4-Bromophenyl phenyl ether	248	12.581	12.591	-0.010	85	580487	16.2	
91 Hexachlorobenzene	284	12.643	12.652	-0.009	77	589002	15.5	
92 Simazine	201	12.800	12.800	0.0	82	348312	0	
93 Atrazine	200	12.833	12.838	-0.005	87	1304842	29.8	
95 Pentachloronitrobenzene	237	12.909	12.923	-0.014	85	318145	15.4	
94 Pentachlorophenol	266	12.914	12.928	-0.014	76	608194	32.0	
97 Phenanthrene	178	13.137	13.152	-0.015	95	3201534	15.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
98 Anthracene	178	13.199	13.214	-0.015	96	3266266	15.0	
99 Carbazole	167	13.408	13.418	-0.010	97	3130446	15.5	
101 Alachlor	160	13.561	13.565	-0.004	92	692514	0	
102 Di-n-butyl phthalate	149	13.794	13.803	-0.009	95	3612267	15.4	
104 Fluoranthene	202	14.417	14.426	-0.009	97	3288993	15.5	
105 Benzidine	184	14.583	14.593	-0.010	99	1260094	13.4	
106 Pyrene	202	14.635	14.650	-0.015	96	3285656	14.4	
107 Famphur	218	15.192	15.197	-0.005	83	1290418	0	
108 Butyl benzyl phthalate	149	15.235	15.244	-0.009	92	1940877	15.4	
109 3,3'-Dichlorobenzidine	252	15.724	15.734	-0.010	72	1279655	16.7	
110 Bis(2-ethylhexyl) phthalate	149	15.729	15.734	-0.005	95	2573585	14.8	
111 Benzo[a]anthracene	228	15.739	15.748	-0.009	98	2920963	15.9	
112 Chrysene	228	15.777	15.786	-0.009	91	2735712	13.1	
113 Di-n-octyl phthalate	149	16.257	16.271	-0.014	96	3795638	13.9	
114 Benzo[b]fluoranthene	252	16.661	16.676	-0.015	96	3136607	16.2	
115 Benzo[k]fluoranthene	252	16.685	16.699	-0.014	98	2965033	14.9	
116 Benzo[a]pyrene	252	16.961	16.975	-0.014	76	2781641	14.9	
117 Indeno[1,2,3-cd]pyrene	276	18.088	18.088	0.0	93	3334925	16.7	
118 Dibenz(a,h)anthracene	278	18.088	18.093	-0.005	68	2815421	16.6	
119 Benzo[g,h,i]perylene	276	18.397	18.402	-0.005	94	2753072	16.6	
S 121 3-Methylphenol	1		0.000					

QC Flag Legend

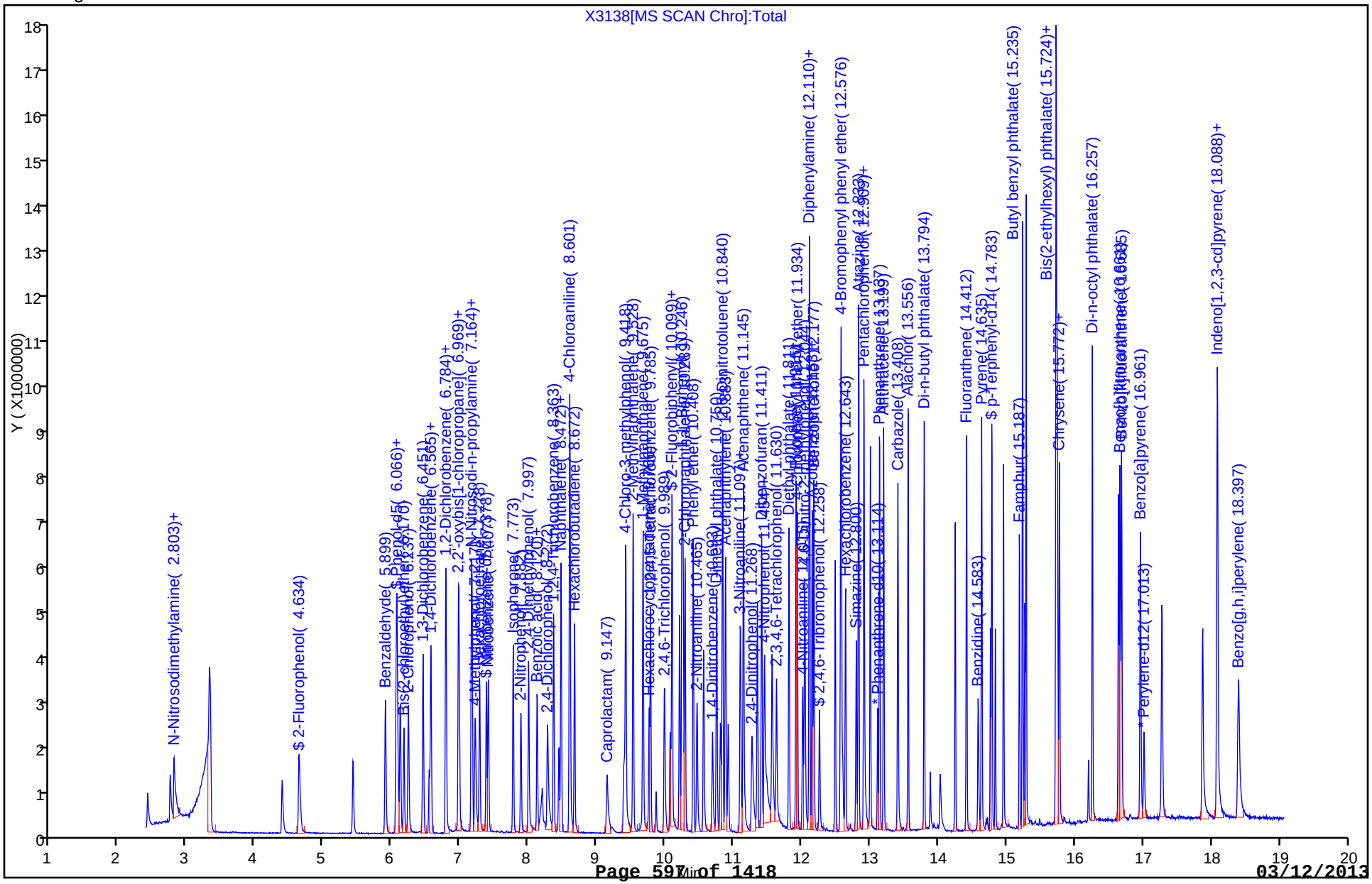
Review Flags
M - Manually Integrated

Report Date: 18-Dec-2012 16:43:18 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3138.D		
Injection Date:	18-Dec-2012 14:18:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	9
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Y Scaling:



Manual Integration/User Assign Peak Report

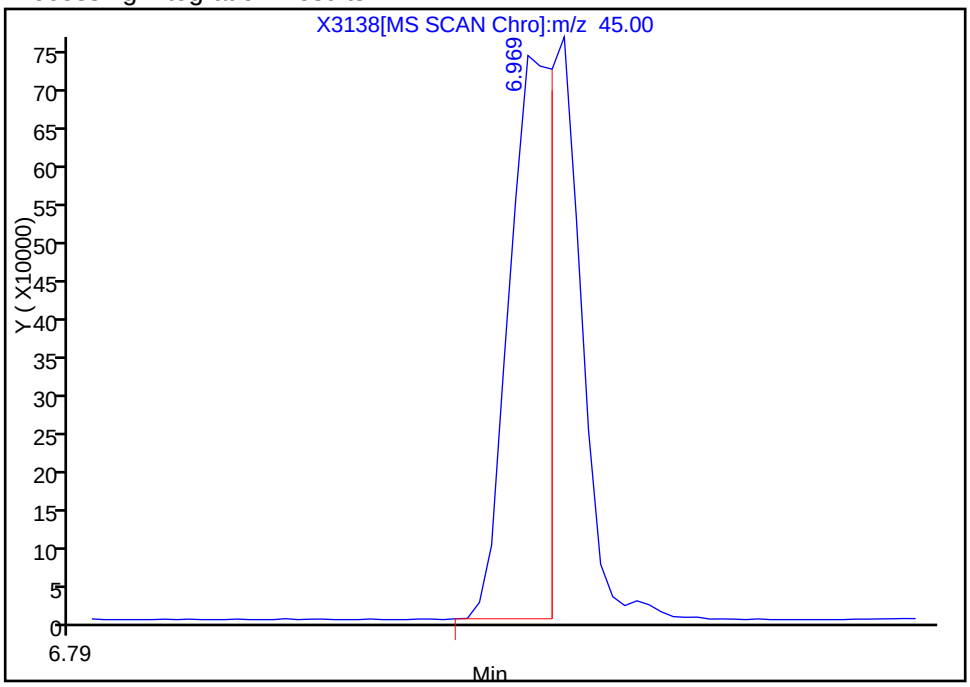
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3138.D		
Injection Date:	18-Dec-2012 14:18:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	9
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

32 2,2'-oxybis[1-chloropropane], Signal: 1, m/z: 45.0 Type: quant, RT: 7.01

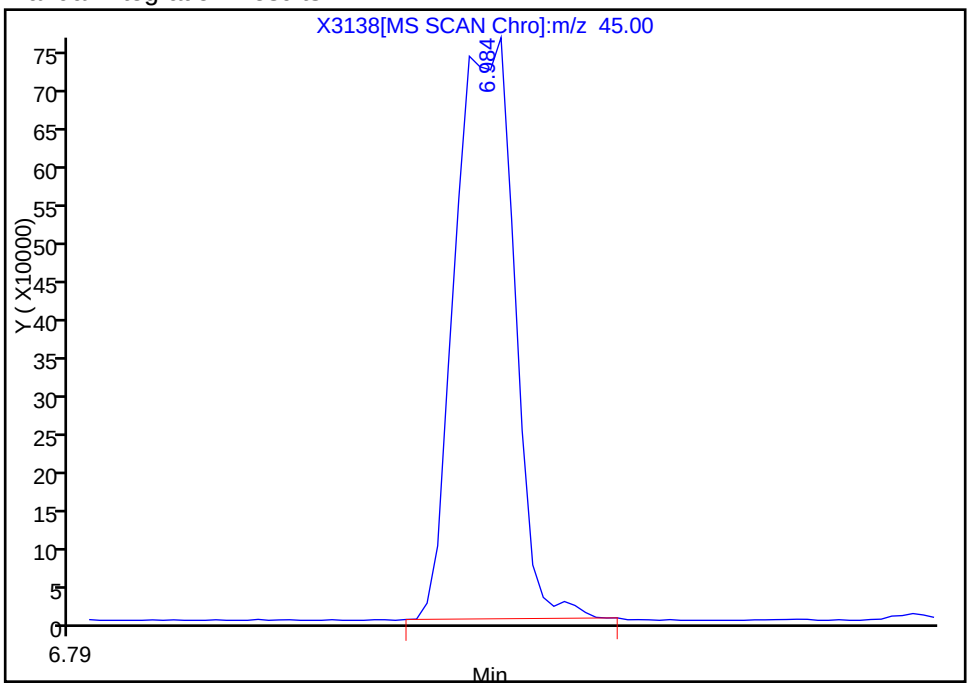
Processing Integration Results

RT: 6.97
Response: 911279
Amount: 11.344733



Manual Integration Results

RT: 6.98
Response: 1395123
Amount: 15.515653



Reviewer: mckernar, 18-Dec-2012 15:24:06
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:18 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

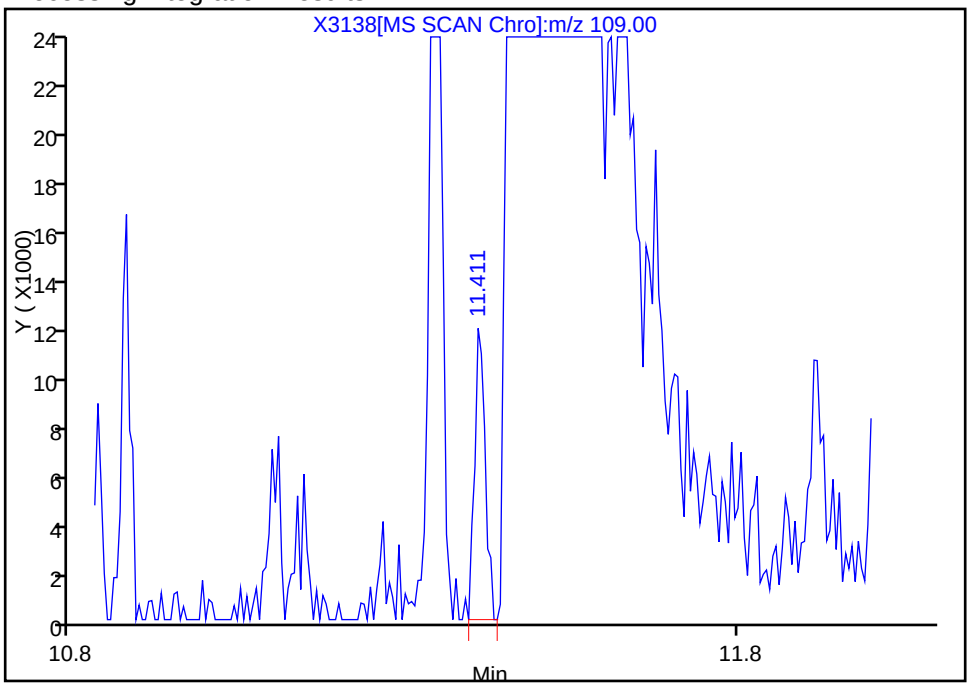
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3138.D		
Injection Date:	18-Dec-2012 14:18:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	9
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

75 4-Nitrophenol, Signal: 1, m/z: 109.0 Type: quant, RT: 11.52

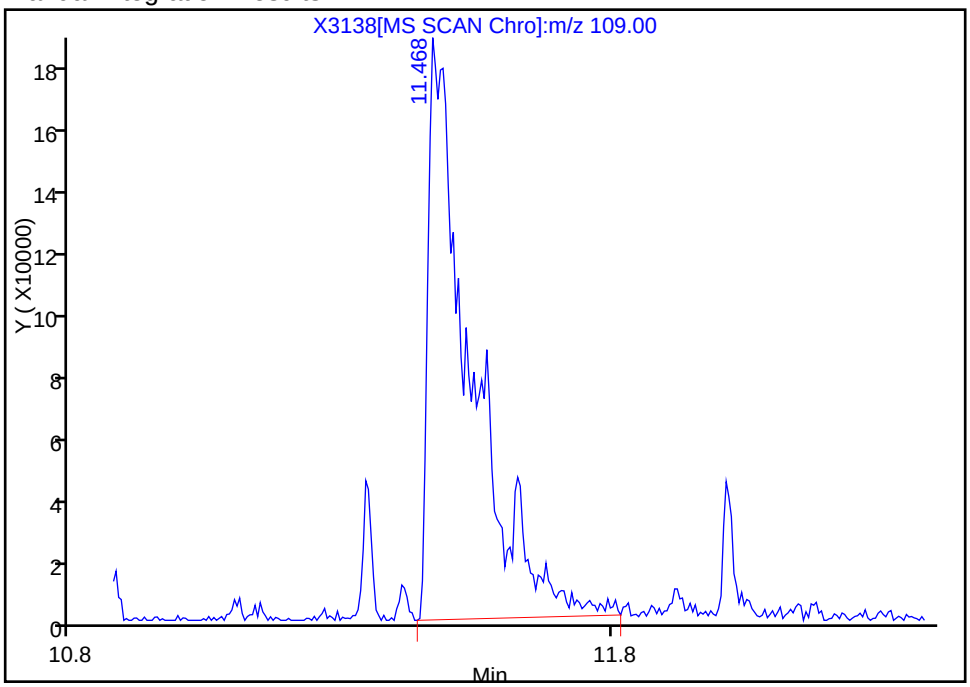
Processing Integration Results

RT: 11.41
Response: 12753
Amount: 0.699901



Manual Integration Results

RT: 11.47
Response: 1031347
Amount: 35.400162



Reviewer: mckernar, 18-Dec-2012 15:24:06
Audit Action: Manually Integrated
Audit Reason: Assign Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3139.D		
Lims ID:	IC - 20	Client ID:	
Inject. Date:	18-Dec-2012 14:44:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	9
Sample ID:	480-0017654-010		
Misc. Info.:			
Operator:	ANM	Instrument ID:	HP5973X
Injection Vol:	1.0 ul	ALS Bottle#:	11
Lims Batch ID:	96347	Lims Sample ID:	10
Sublist:	chrom-X-8270LL*sub20		
Detector:	MS SCAN		

Method:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X-8270LL.m		
Last Update:	18-Dec-2012 16:43:20	Calib Date:	18-Dec-2012 14:44:30
Quant Method:	Internal Standard	Quant By:	Continuing Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3139.D		
Limit Group:	MB - 8270RCP_MCP ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm
Process Host:	XAWRK017		

First Level Reviewer: mckernar Date: 18-Dec-2012 16:43:20

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.541	6.580	-0.039	82	255261	5.00	
* 2 Naphthalene-d8	136	8.434	8.472	-0.038	97	957949	5.00	
* 3 Acenaphthene-d10	164	11.073	11.107	-0.034	90	624701	5.00	
* 4 Phenanthrene-d10	188	13.095	13.123	-0.029	93	1026159	5.00	
* 5 Chrysene-d12	240	15.734	15.763	-0.029	83	870026	5.00	
* 6 Perylene-d12	264	17.004	17.028	-0.024	98	901058	5.00	
$ 7 2-Fluorophenol	112	4.644	4.692	-0.048	73	1235087	21.3	
$ 8 Phenol-d5	99	6.056	6.099	-0.043	86	1537425	21.8	
$ 9 Nitrobenzene-d5	82	7.378	7.417	-0.039	83	1556096	21.7	
$ 10 2-Fluorobiphenyl	172	10.075	10.113	-0.038	93	3065397	19.6	
$ 11 2,4,6-Tribromophenol	330	12.243	12.277	-0.034	76	382130	20.2	
$ 12 p-Terphenyl-d14	244	14.764	14.797	-0.033	94	3246910	19.4	
18 1,4-Dioxane	88	2.423	2.461	-0.038	75	511598	19.8	
19 N-Nitrosodimethylamine	42	2.751	2.804	-0.053	73	942927	20.2	
20 Pyridine	52	2.808	2.865	-0.057	92	789371	16.7	
21 Benzaldehyde	77	5.904	5.942	-0.038	89	978974	19.6	
23 Aniline	93	6.066	6.109	-0.043	95	1484543	15.9	
22 Phenol	94	6.075	6.123	-0.048	41	1613726	20.8	
24 Bis(2-chloroethyl)ether	93	6.175	6.213	-0.038	98	1266802	20.7	
25 2-Chlorophenol	128	6.237	6.280	-0.043	97	1360622	20.6	
26 1,3-Dichlorobenzene	146	6.451	6.489	-0.038	97	1561543	19.0	
27 1,4-Dichlorobenzene	146	6.565	6.608	-0.043	74	1600502	19.5	
29 1,2-Dichlorobenzene	146	6.789	6.822	-0.033	85	1509239	19.8	
28 Benzyl alcohol	108	6.779	6.822	-0.043	89	639595	20.3	
31 2-Methylphenol	108	6.969	7.008	-0.039	80	1178092	21.2	
32 2,2'-oxybis[1-chloropropane]	45	6.979	7.012	-0.033	71	1953355	19.6	M
33 Acetophenone	105	7.160	7.198	-0.038	96	2041251	21.6	
34 N-Nitrosodi-n-propylamine	70	7.169	7.203	-0.034	84	1036267	21.8	
36 4-Methylphenol	108	7.212	7.260	-0.048	80	1155222	20.6	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
37 Hexachloroethane	117	7.278	7.317	-0.039	95	642324	19.9	
38 Nitrobenzene	77	7.407	7.445	-0.038	79	1567636	21.0	
40 Isophorone	82	7.768	7.806	-0.038	74	2529047	20.6	
41 2-Nitrophenol	139	7.882	7.921	-0.039	89	776160	22.9	
43 2,4-Dimethylphenol	107	7.992	8.040	-0.048	87	1317566	20.6	
45 Bis(2-chloroethoxy)methane	93	8.115	8.154	-0.039	99	1542456	21.2	
44 Benzoic acid	105	8.206	8.225	-0.019	1	890624	20.2	
47 2,4-Dichlorophenol	162	8.268	8.315	-0.047	85	1102161	21.2	
48 1,2,4-Trichlorobenzene	180	8.358	8.396	-0.038	98	1240609	19.4	
49 Naphthalene	128	8.463	8.506	-0.043	94	3830652	18.1	
51 4-Chloroaniline	127	8.591	8.634	-0.043	89	1552735	20.2	
52 Hexachlorobutadiene	225	8.658	8.701	-0.043	85	665576	19.0	
54 Caprolactam	113	9.138	9.167	-0.029	80	405696	21.4	
55 4-Chloro-3-methylphenol	107	9.376	9.428	-0.052	94	1198666	20.8	M
56 2-Methylnaphthalene	142	9.504	9.547	-0.043	75	2812964	18.9	
57 1-Methylnaphthalene	142	9.651	9.694	-0.043	93	2631760	19.2	
58 Hexachlorocyclopentadiene	237	9.742	9.780	-0.038	86	543807	19.7	
59 1,2,4,5-Tetrachlorobenzene	216	9.761	9.804	-0.043	92	1175625	20.1	
60 2,4,6-Trichlorophenol	196	9.961	10.013	-0.052	92	745358	20.7	
61 2,4,5-Trichlorophenol	196	10.051	10.108	-0.057	89	739930	21.2	
62 1,1'-Biphenyl	154	10.222	10.260	-0.038	97	3372086	18.7	
63 2-Chloronaphthalene	162	10.270	10.303	-0.033	95	2635052	19.7	
64 Phenyl ether	170	10.389	10.422	-0.033	92	1925297	19.6	
65 2-Nitroaniline	65	10.441	10.484	-0.043	81	974942	23.6	
66 1,4-Dinitrobenzene	75	10.669	10.717	-0.048	80	614935	0	
67 Dimethyl phthalate	163	10.736	10.764	-0.028	93	3207926	19.8	
68 2,6-Dinitrotoluene	165	10.821	10.850	-0.029	92	1566924	21.4	
69 Acenaphthylene	152	10.859	10.893	-0.034	88	3983727	18.2	
70 3-Nitroaniline	138	11.083	11.126	-0.043	68	789115	21.7	
71 Acenaphthene	153	11.126	11.154	-0.028	90	2728770	17.9	
72 2,4-Dinitrophenol	184	11.249	11.302	-0.053	93	846602	40.3	
73 Dibenzofuran	168	11.392	11.425	-0.033	96	3637301	19.6	
74 2,4-Dinitrotoluene	165	11.435	11.468	-0.033	1	1039381	22.2	
75 4-Nitrophenol	109	11.449	11.521	-0.072	29	1414081	45.2	M
76 2,3,4,6-Tetrachlorophenol	232	11.611	11.649	-0.038	87	525225	18.7	
78 Diethyl phthalate	149	11.796	11.820	-0.024	93	3276872	18.5	
79 Fluorene	166	11.901	11.930	-0.029	80	3205979	18.9	
80 4-Chlorophenyl phenyl ether	204	11.915	11.944	-0.029	86	1460150	19.4	
81 4-Nitroaniline	138	11.996	12.039	-0.043	86	816043	19.7	
82 4,6-Dinitro-2-methylphenol	198	12.029	12.063	-0.034	63	1135498	40.8	
84 Diphenylamine	169	12.101	12.120	-0.019	93	4516590	18.9	
83 N-Nitrosodiphenylamine	169	12.101	12.120	-0.019	93	4516590	18.9	
16 1,2-Diphenylhydrazine	77	12.139	12.163	-0.024	94	3210046	20.8	
85 Azobenzene	77	12.139	12.163	-0.024	95	3210046	20.9	
86 Benzophenone	105	12.162	12.186	-0.024	94	2666580	17.9	
89 4-Bromophenyl phenyl ether	248	12.567	12.591	-0.024	86	812265	21.1	
91 Hexachlorobenzene	284	12.628	12.652	-0.024	76	804600	19.8	
92 Simazine	201	12.781	12.800	-0.019	83	217560	0	
93 Atrazine	200	12.819	12.838	-0.019	87	830509	17.7	
95 Pentachloronitrobenzene	237	12.895	12.923	-0.028	88	438981	19.8	
94 Pentachlorophenol	266	12.895	12.928	-0.033	72	828322	40.5	
97 Phenanthrene	178	13.123	13.152	-0.029	95	4084154	17.9	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
98 Anthracene	178	13.185	13.214	-0.029	96	4076574	17.5	
99 Carbazole	167	13.389	13.418	-0.029	97	4130457	19.1	
101 Alachlor	160	13.542	13.565	-0.023	92	947932	0	
102 Di-n-butyl phthalate	149	13.775	13.803	-0.028	94	4384075	17.5	
104 Fluoranthene	202	14.393	14.426	-0.033	96	4129184	18.2	
105 Benzidine	184	14.569	14.593	-0.024	99	564309	5.87	
106 Pyrene	202	14.612	14.650	-0.038	94	4232522	18.2	
107 Famphur	218	15.168	15.197	-0.029	83	1484068	0	
108 Butyl benzyl phthalate	149	15.215	15.244	-0.029	93	2580426	20.0	
109 3,3'-Dichlorobenzidine	252	15.701	15.734	-0.033	94	1766084	22.6	
110 Bis(2-ethylhexyl) phthalate	149	15.710	15.734	-0.024	92	3272340	18.4	
111 Benzo[a]anthracene	228	15.724	15.748	-0.024	96	3772548	20.1	
112 Chrysene	228	15.758	15.786	-0.028	90	3555688	16.7	
113 Di-n-octyl phthalate	149	16.247	16.271	-0.024	94	4702329	16.8	
114 Benzo[b]fluoranthene	252	16.656	16.676	-0.020	94	4108649	19.6	
115 Benzo[k]fluoranthene	252	16.675	16.699	-0.024	97	3933673	18.2	
116 Benzo[a]pyrene	252	16.951	16.975	-0.024	77	3670790	18.1	
117 Indeno[1,2,3-cd]pyrene	276	18.088	18.088	0.0	90	4648434	21.5	
118 Dibenz(a,h)anthracene	278	18.088	18.093	-0.005	71	4058513	22.1	
119 Benzo[g,h,i]perylene	276	18.392	18.402	-0.010	92	4058645	22.5	
S 121 3-Methylphenol	1		0.000					

QC Flag Legend

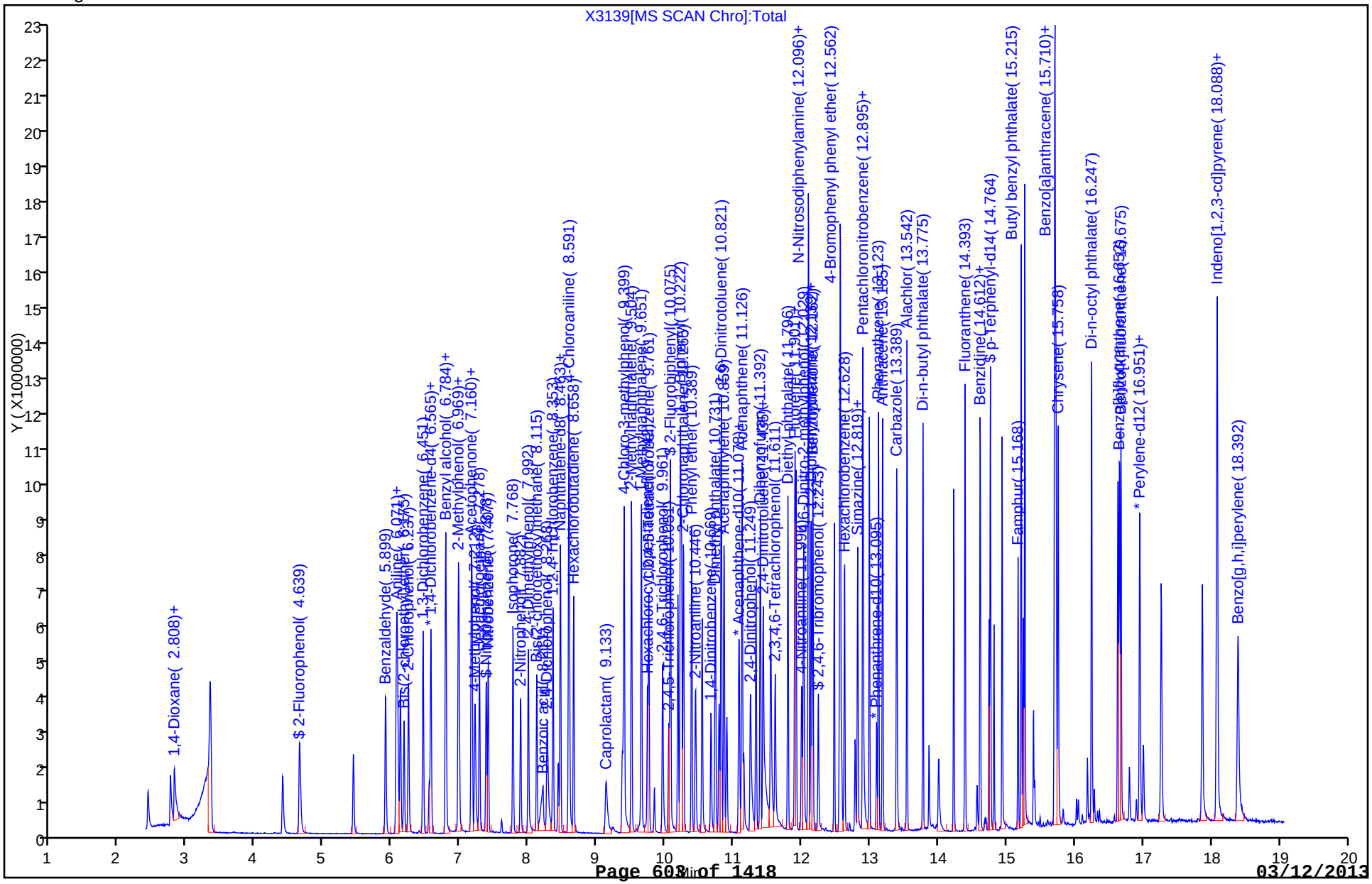
Review Flags
M - Manually Integrated

Report Date: 18-Dec-2012 16:43:21 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3139.D		
Injection Date:	18-Dec-2012 14:44:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	10
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Y Scaling:



Manual Integration/User Assign Peak Report

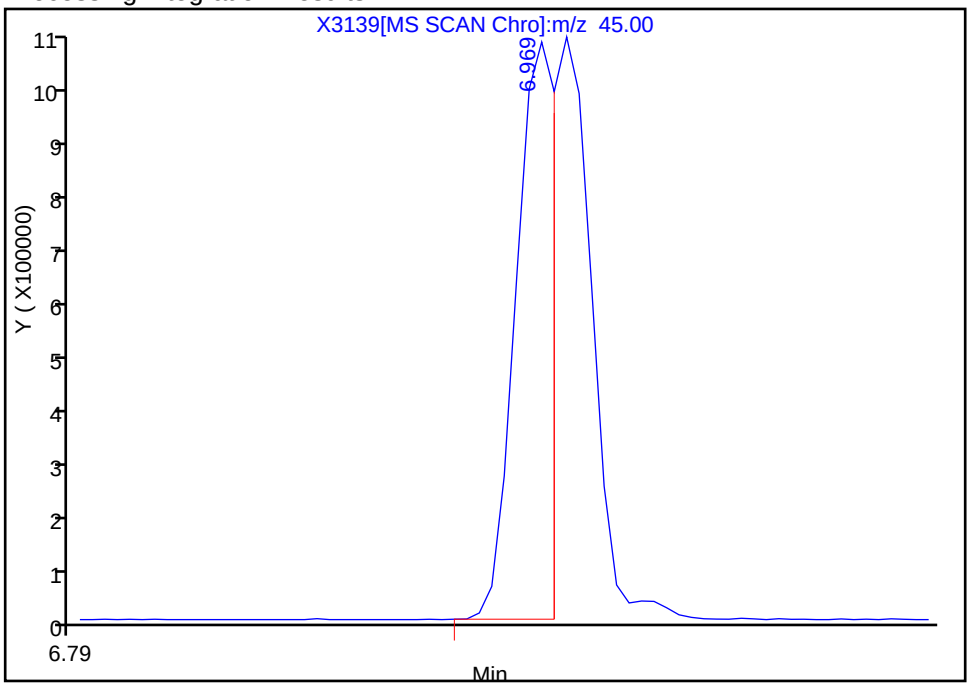
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3139.D		
Injection Date:	18-Dec-2012 14:44:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	10
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

32 2,2'-oxybis[1-chloropropane], Signal: 1, m/z: 45.0 Type: quant, RT: 7.01

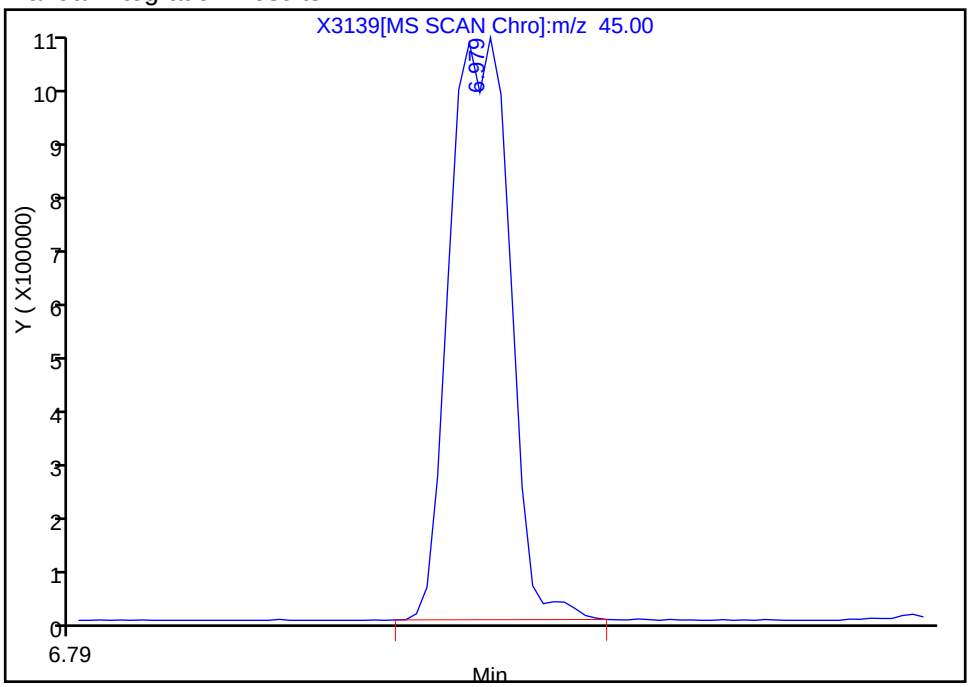
Processing Integration Results

RT: 6.97
Response: 1100790
Amount: 11.711219



Manual Integration Results

RT: 6.98
Response: 1953355
Amount: 19.629943



Reviewer: mckernar, 18-Dec-2012 15:28:32
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

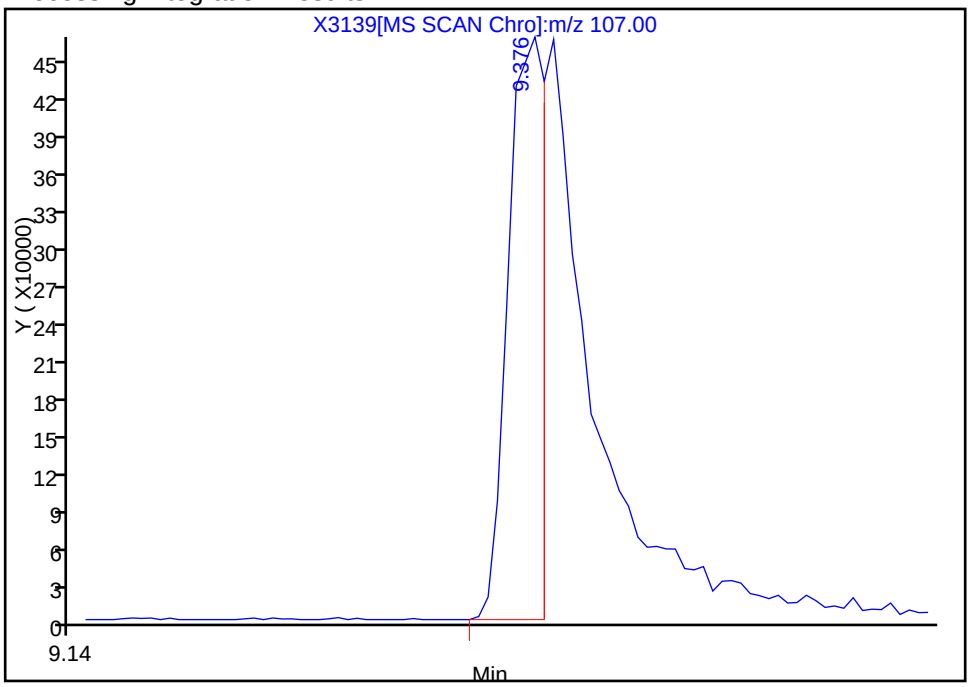
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3139.D		
Injection Date:	18-Dec-2012 14:44:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	10
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

55 4-Chloro-3-methylphenol, Signal: 1, m/z: 107.0 Type: quant, RT: 9.43

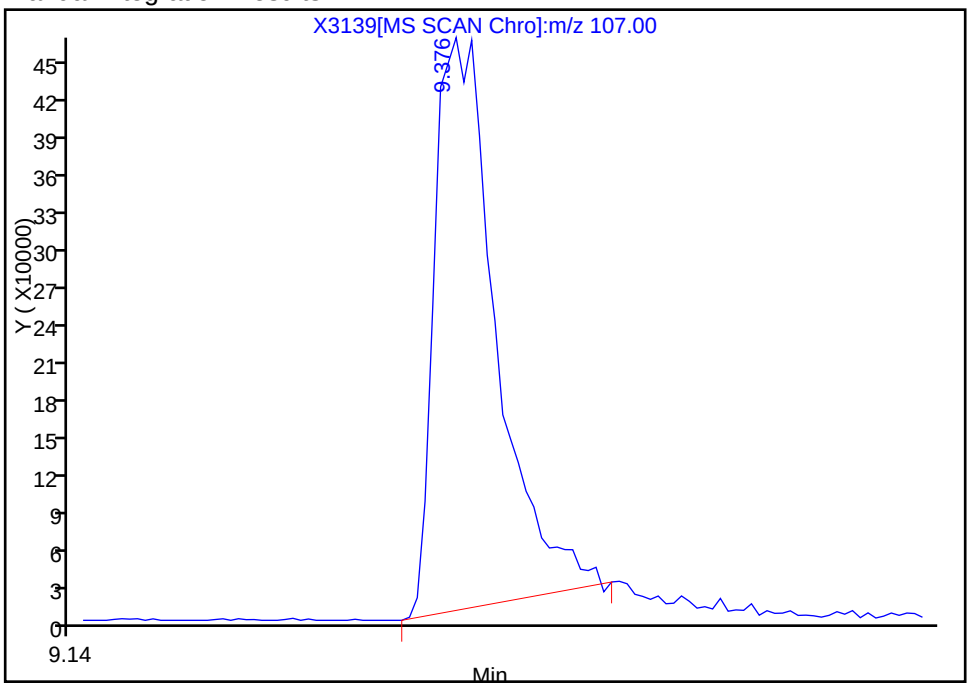
Processing Integration Results

RT: 9.38
Response: 611140
Amount: 11.162944



Manual Integration Results

RT: 9.38
Response: 1198666
Amount: 20.833898



Reviewer: mckernar, 18-Dec-2012 15:28:32
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

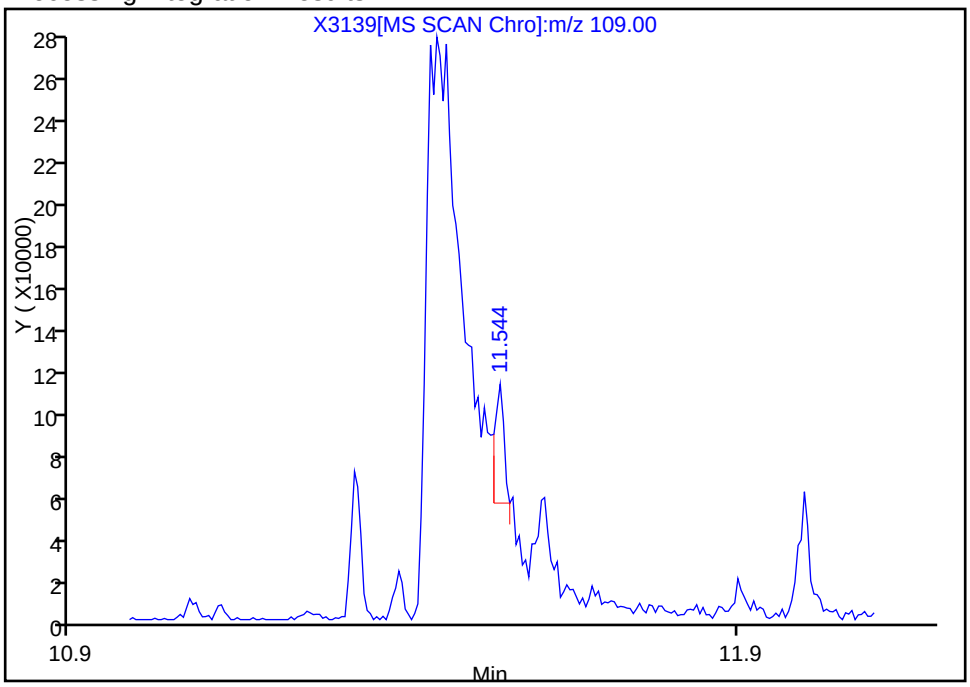
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3139.D		
Injection Date:	18-Dec-2012 14:44:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	10
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

75 4-Nitrophenol, Signal: 1, m/z: 109.0 Type: quant, RT: 11.52

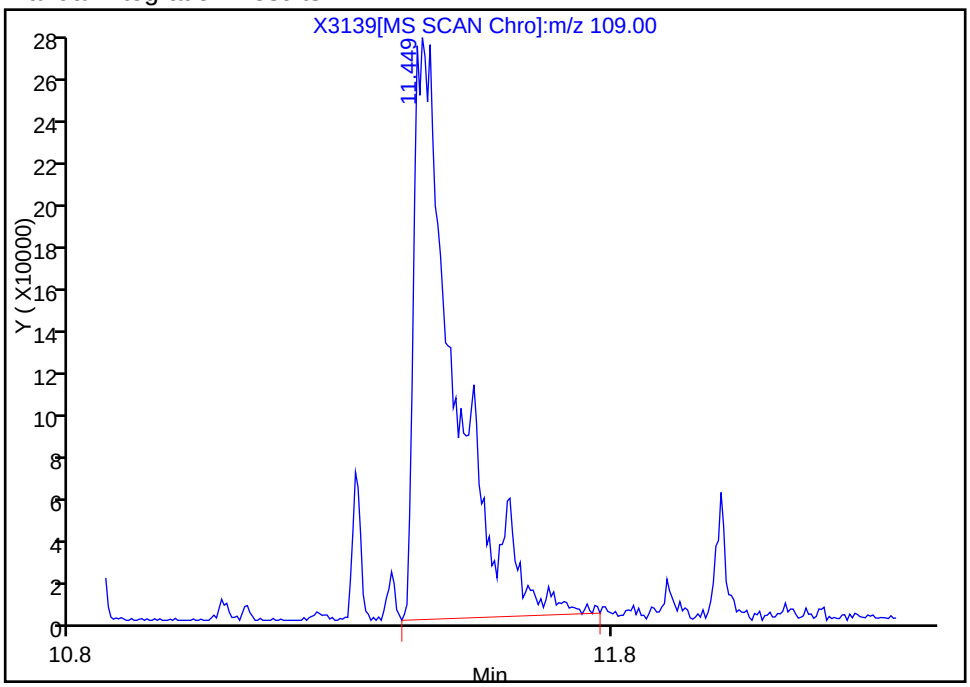
Processing Integration Results

RT: 11.54
Response: 50883
Amount: 1.868080



Manual Integration Results

RT: 11.45
Response: 1414081
Amount: 45.224369



Reviewer: mckernar, 18-Dec-2012 15:28:32
Audit Action: Manually Integrated
Audit Reason: Assign Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Lab Sample ID: CCVIS 480-96803/2 Calibration Date: 12/20/2012 10:36

Instrument ID: HP5973X Calib Start Date: 12/18/2012 11:20

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 12/18/2012 14:44

Lab File ID: X3191.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Lin1		0.4867		7600	8000	-5.0	20.0
N-Nitrosodimethylamine	Ave	0.9135	0.9445		8270	8000	3.4	20.0
Pyridine	Ave	0.9276	0.7869		6790	8000	-15.2	20.0
Benzaldehyde	Ave	0.9800	1.056	0.0100	8620	8000	7.7	20.0
Aniline	Ave	1.831	1.867		8160	8000	2.0	20.0
Phenol	Ave	1.523	1.570	0.7000	8250	8000	3.1	20.0
Bis(2-chloroethyl)ether	Ave	1.199	1.255	0.6000	8370	8000	4.7	20.0
2-Chlorophenol	Ave	1.295	1.361	0.8000	8410	8000	5.1	20.0
1,3-Dichlorobenzene	Ave	1.606	1.563		7790	8000	-2.6	20.0
1,4-Dichlorobenzene	Ave	1.604	1.643		8190	8000	2.4	20.0
1,2-Dichlorobenzene	Ave	1.496	1.530		8180	8000	2.3	20.0
Benzyl alcohol	QuaF		0.3950		6990	8000	-12.6	20.0
2-Methylphenol	Ave	1.087	1.096	0.6000	8070	8000	0.9	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.949	1.949	0.0100		8000	-0.0	20.0
Acetophenone	Ave	1.854	2.008	0.0100	8660	8000	8.3	20.0
N-Nitrosodi-n-propylamine	Ave	0.9313	0.998	0.0500	8570	8000	7.1	20.0
4-Methylphenol	Ave	1.101	1.186	0.6000	8620	8000	7.7	20.0
Hexachloroethane	Lin1		0.6323	0.3000	7950	8000	-0.7	20.0
Nitrobenzene	Ave	0.3891	0.4262	0.1000	8760	8000	9.5	20.0
Isophorone	Ave	0.6400	0.6910	0.3000	8640	8000	8.0	20.0
2-Nitrophenol	Ave	0.1771	0.2013	0.0500	9090	8000	13.7	20.0
2,4-Dimethylphenol	Ave	0.3340	0.3047	0.1000	7300	8000	-8.8	20.0
Bis(2-chloroethoxy)methane	Ave	0.3791	0.4105	0.2000	8660	8000	8.3	20.0
Benzoic acid	QuaF		0.2231		9930	8000	24.2*	20.0
2,4-Dichlorophenol	Ave	0.2718	0.2966	0.1000	8730	8000	9.1	20.0
1,2,4-Trichlorobenzene	Ave	0.3341	0.3447		8250	8000	3.2	20.0
Naphthalene	Ave	1.108	1.111	0.6000	8020	8000	0.3	20.0
4-Chloroaniline	Ave	0.4008	0.4476	0.0100	8940	8000	11.7	20.0
Hexachlorobutadiene	Ave	0.1826	0.1864	0.0100	8170	8000	2.1	20.0
Caprolactam	Ave	0.0989	0.1088	0.0100	8800	8000	10.0	20.0
4-Chloro-3-methylphenol	Ave	0.3003	0.3301	0.2000	8790	8000	9.9	20.0
2-Methylnaphthalene	Ave	0.7764	0.7781	0.4000	8020	8000	0.2	20.0
1-Methylnaphthalene	Ave	0.7151	0.7126			8000	-0.4	20.0
Hexachlorocyclopentadiene	QuaF		0.1771	0.0500	7740	8000	-3.2	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.4691	0.4825	0.0100	8230	8000	2.9	20.0
2,4,6-Trichlorophenol	Ave	0.2887	0.3237	0.2000	8970	8000	12.1	20.0
2,4,5-Trichlorophenol	Ave	0.2793	0.2762	0.2000	7910	8000	-1.1	20.0
1,1'-Biphenyl	Ave	1.446	1.520	0.0100	8410	8000	5.1	20.0
2-Chloronaphthalene	Lin1		1.066	0.8000	7600	8000	-5.0	20.0
Phenyl ether	Ave	0.7862	0.8036		8180	8000	2.2	20.0
2-Nitroaniline	Ave	0.3311	0.3799	0.0100	9180	8000	14.7	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Lab Sample ID: CCVIS 480-96803/2 Calibration Date: 12/20/2012 10:36

Instrument ID: HP5973X Calib Start Date: 12/18/2012 11:20

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 12/18/2012 14:44

Lab File ID: X3191.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dimethyl phthalate	Ave	1.294	1.334	0.0100	8250	8000	3.1	20.0
2,6-Dinitrotoluene	Ave	0.5865	0.6154	0.1000	8390	8000	4.9	20.0
Acenaphthylene	Ave	1.749	1.773	0.9000	8110	8000	1.3	20.0
3-Nitroaniline	Ave	0.2913	0.3168	0.0100	8700	8000	8.7	20.0
Acenaphthene	Ave	1.218	1.148	0.9000	7540	8000	-5.7	20.0
2,4-Dinitrophenol	QuaF		0.1335	0.0100	17600	16000	10.1	20.0
Dibenzofuran	Ave	1.486	1.615	0.8000	8700	8000	8.7	20.0
2,4-Dinitrotoluene	Ave	0.3744	0.4349	0.2000	9290	8000	16.2	20.0
4-Nitrophenol	Ave	0.2503	0.2054	0.0500	13100	16000	-17.9	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.2247	0.2293	0.0100	8160	8000	2.0	20.0
Diethyl phthalate	Ave	1.417	1.440	0.0100	8130	8000	1.7	20.0
Fluorene	Ave	1.359	1.363	0.8000	8030	8000	0.3	20.0
4-Chlorophenyl phenyl ether	Ave	0.6017	0.5933	0.4000	7890	8000	-1.4	20.0
4-Nitroaniline	Lin1		0.3107	0.0100	7760	8000	-3.0	20.0
4,6-Dinitro-2-methylphenol	Lin1		0.2102	0.0100	15700	16000	-1.8	20.0
Diphenylamine	Ave	1.164	1.304		8960	8000	12.0	20.0
N-Nitrosodiphenylamine	Ave	1.163	1.304	0.0100	8970	8000	12.1	20.0
1,2-Diphenylhydrazine	Ave	0.7515	0.8204		8730	8000	9.2	20.0
Azobenzene	Ave	0.7500	0.8204		8750	8000	9.4	20.0
Benzophenone	Ave	1.189	1.155		7770	8000	-2.9	20.0
4-Bromophenyl phenyl ether	Ave	0.1874	0.1976	0.1000	8430	8000	5.4	20.0
Hexachlorobenzene	Lin1		0.2030	0.1000	8220	8000	2.8	20.0
Atrazine	Ave	0.3761	0.3734	0.0100	15900	16000	-0.7	20.0
Pentachloronitrobenzene	Lin1		0.1105		8390	8000	4.8	20.0
Pentachlorophenol	Lin1		0.0966	0.0500	16000	16000	0.3	20.0
Phenanthrene	Ave	1.115	1.171	0.6000	8400	8000	5.1	20.0
Anthracene	Ave	1.135	1.160	0.6000	8180	8000	2.2	20.0
Carbazole	Ave	1.052	1.093	0.0100		8000	3.9	20.0
Di-n-butyl phthalate	Ave	1.220	1.353	0.0100	8870	8000	10.9	20.0
Fluoranthene	Ave	1.104	1.161	0.6000	8420	8000	5.2	20.0
Benzidine	Ave	0.5523	0.5244		7600	8000	-5.0	20.0
Pyrene	Ave	1.340	1.450	0.6000	8660	8000	8.2	20.0
Butyl benzyl phthalate	Ave	0.7409	0.8118	0.0100	8770	8000	9.6	20.0
3,3'-Dichlorobenzidine	Ave	0.4492	0.5039	0.0100	8970	8000	12.2	20.0
Bis(2-ethylhexyl) phthalate	Ave	1.020	1.122	0.0100	8800	8000	10.0	20.0
Benzo[a]anthracene	Ave	1.077	1.218	0.6000	9040	8000	13.0	20.0
Chrysene	Ave	1.222	1.145	0.6000	7500	8000	-6.3	20.0
Di-n-octyl phthalate	Ave	1.608	1.734	0.0100	8630	8000	7.8	20.0
Benzo[b]fluoranthene	Ave	1.161	1.145	0.7000	7890	8000	-1.4	20.0
Benzo[k]fluoranthene	Ave	1.196	1.320	0.7000	8830	8000	10.3	20.0
Benzo[a]pyrene	Ave	1.123	1.081	0.7000	7700	8000	-3.7	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Lab Sample ID: CCVIS 480-96803/2 Calibration Date: 12/20/2012 10:36

Instrument ID: HP5973X Calib Start Date: 12/18/2012 11:20

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 12/18/2012 14:44

Lab File ID: X3191.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibenz(a,h)anthracene	Ave	1.017	1.076	0.4000	8460	8000	5.8	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.198	1.272	0.5000	8490	8000	6.1	20.0
Benzo[g,h,i]perylene	Ave	1.000	1.047	0.4000	8370	8000	4.7	20.0
2-Fluorophenol	Ave	1.135	1.214		8560	8000	7.0	20.0
Phenol-d5	Ave	1.381	1.538		8910	8000	11.4	20.0
Nitrobenzene-d5	Ave	0.3749	0.4013		8560	8000	7.1	20.0
2-Fluorobiphenyl	Ave	1.255	1.310		8350	8000	4.4	20.0
2,4,6-Tribromophenol	Ave	0.0920	0.0995		8650	8000	8.1	20.0
p-Terphenyl-d14	Ave	0.9641	1.053		8740	8000	9.2	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3191.D
Lims ID: CCVIS Client ID:
Inject. Date: 20-Dec-2012 10:36:30 Dil. Factor: 1.0000
Sample Type: CCVIS
Sample ID: 480-0017736-002
Misc. Info.:
Operator: ANM Instrument ID: HP5973X
Injection Vol: 1.0 ul ALS Bottle#: 3
Lims Batch ID: 96803 Lims Sample ID: 2
Sublist: chrom-X-8270LL*sub20
Detector: MS SCAN

Method: \\Bufchrom\ChromData\HP5973X\20121220-17736.b\X-8270LL.m
Last Update: 09-Mar-2013 09:29:28 Calib Date: 18-Dec-2012 14:44:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3139.D
Limit Group: MB - 8270RCP_MCP ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: RXI-5Sil MS Column Dia: 0.25 mm
Process Host: XAWRK034

First Level Reviewer: mckernar Date: 20-Dec-2012 11:00:48

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.570	6.570	0.0	85	245891	5.00	
* 2 Naphthalene-d8	136	8.439	8.439	0.0	98	916601	5.00	
* 3 Acenaphthene-d10	164	11.064	11.064	0.0	92	598337	5.00	
* 4 Phenanthrene-d10	188	13.080	13.080	0.0	97	1001444	5.00	
* 5 Chrysene-d12	240	15.734	15.734	0.0	88	792610	5.00	
* 6 Perylene-d12	264	17.013	17.013	0.0	98	796790	5.00	
$ 7 2-Fluorophenol	112	4.682	4.682	0.0	72	477631	8.56	
$ 8 Phenol-d5	99	6.090	6.090	0.0	90	605243	8.91	
$ 9 Nitrobenzene-d5	82	7.393	7.393	0.0	80	588574	8.56	
$ 10 2-Fluorobiphenyl	172	10.075	10.075	0.0	95	1254086	8.35	
$ 11 2,4,6-Tribromophenol	330	12.229	12.229	0.0	65	159374	8.65	
$ 12 p-Terphenyl-d14	244	14.759	14.759	0.0	95	1335614	8.74	
18 1,4-Dioxane	88	2.433	2.433	0.0	73	191479	7.60	
19 N-Nitrosodimethylamine	42	2.766	2.766	0.0	70	371588	8.27	
20 Pyridine	52	2.837	2.837	0.0	81	309571	6.79	
21 Benzaldehyde	77	5.938	5.938	0.0	90	415353	8.62	
23 Aniline	93	6.104	6.104	0.0	97	734493	8.16	
22 Phenol	94	6.109	6.109	0.0	33	617735	8.25	
24 Bis(2-chloroethyl)ether	93	6.204	6.204	0.0	98	493762	8.37	
25 2-Chlorophenol	128	6.270	6.270	0.0	98	535636	8.41	
26 1,3-Dichlorobenzene	146	6.484	6.484	0.0	97	615072	7.79	
27 1,4-Dichlorobenzene	146	6.594	6.594	0.0	71	646491	8.19	
29 1,2-Dichlorobenzene	146	6.813	6.813	0.0	84	601805	8.18	
28 Benzyl alcohol	108	6.813	6.813	0.0	64	155383	6.99	M
31 2-Methylphenol	108	6.993	6.993	0.0	76	431344	8.07	
32 2,2'-oxybis[1-chloropropane]	45	6.998	6.998	0.0	81	766638	8.00	
33 Acetophenone	105	7.174	7.174	0.0	95	789807	8.66	
34 N-Nitrosodi-n-propylamine	70	7.183	7.183	0.0	95	392481	8.57	
36 4-Methylphenol	108	7.231	7.231	0.0	83	466585	8.62	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
37 Hexachloroethane	117	7.298	7.298	0.0	93	248768	7.95	
38 Nitrobenzene	77	7.421	7.421	0.0	76	624970	8.76	
40 Isophorone	82	7.778	7.778	0.0	74	1013350	8.64	
41 2-Nitrophenol	139	7.892	7.892	0.0	91	295177	9.09	
43 2,4-Dimethylphenol	107	8.001	8.001	0.0	86	446868	7.30	
45 Bis(2-chloroethoxy)methane	93	8.125	8.125	0.0	99	602045	8.66	
44 Benzoic acid	105	8.177	8.177	0.0	1	327141	9.93	M
47 2,4-Dichlorophenol	162	8.277	8.277	0.0	82	434979	8.73	
48 1,2,4-Trichlorobenzene	180	8.363	8.363	0.0	99	505495	8.25	
49 Naphthalene	128	8.472	8.472	0.0	94	1628897	8.02	
51 4-Chloroaniline	127	8.596	8.596	0.0	91	656472	8.94	
52 Hexachlorobutadiene	225	8.662	8.662	0.0	84	273425	8.17	
54 Caprolactam	113	9.129	9.129	0.0	78	159568	8.80	
55 4-Chloro-3-methylphenol	107	9.385	9.385	0.0	93	484140	8.79	
56 2-Methylnaphthalene	142	9.509	9.509	0.0	76	1141054	8.02	
57 1-Methylnaphthalene	142	9.656	9.656	0.0	93	1045020	7.97	
58 Hexachlorocyclopentadiene	237	9.742	9.742	0.0	87	169545	7.74	
59 1,2,4,5-Tetrachlorobenzene	216	9.761	9.761	0.0	87	461918	8.23	
60 2,4,6-Trichlorophenol	196	9.970	9.970	0.0	96	309861	8.97	
61 2,4,5-Trichlorophenol	196	10.056	10.056	0.0	96	264386	7.91	
62 1,1'-Biphenyl	154	10.218	10.218	0.0	99	1454709	8.41	
63 2-Chloronaphthalene	162	10.265	10.265	0.0	96	1020943	7.60	
64 Phenyl ether	170	10.384	10.384	0.0	95	769321	8.18	
65 2-Nitroaniline	65	10.436	10.436	0.0	80	363691	9.18	
66 1,4-Dinitrobenzene	75	10.665	10.665	0.0	81	216460	0	
67 Dimethyl phthalate	163	10.722	10.722	0.0	94	1277385	8.25	
68 2,6-Dinitrotoluene	165	10.807	10.807	0.0	91	589136	8.39	
69 Acenaphthylene	152	10.850	10.850	0.0	88	1696886	8.11	
70 3-Nitroaniline	138	11.069	11.069	0.0	93	303284	8.70	
71 Acenaphthene	153	11.112	11.112	0.0	90	1099167	7.54	
72 2,4-Dinitrophenol	184	11.240	11.240	0.0	91	255619	17.6	
73 Dibenzofuran	168	11.378	11.378	0.0	99	1546171	8.70	
74 2,4-Dinitrotoluene	165	11.416	11.416	0.0	97	416377	9.29	
75 4-Nitrophenol	109	11.454	11.454	0.0	19	393183	13.1	M
76 2,3,4,6-Tetrachlorophenol	232	11.597	11.597	0.0	82	219504	8.16	
78 Diethyl phthalate	149	11.777	11.777	0.0	93	1378980	8.13	
79 Fluorene	166	11.882	11.882	0.0	80	1304965	8.03	
80 4-Chlorophenyl phenyl ether	204	11.901	11.901	0.0	85	568000	7.89	
81 4-Nitroaniline	138	11.982	11.982	0.0	86	297451	7.76	
82 4,6-Dinitro-2-methylphenol	198	12.010	12.010	0.0	62	402388	15.7	
84 Diphenylamine	169	12.077	12.077	0.0	98	2088817	8.96	
83 N-Nitrosodiphenylamine	169	12.077	12.077	0.0	98	2088817	8.97	
16 1,2-Diphenylhydrazine	77	12.120	12.120	0.0	96	1314466	8.73	
85 Azobenzene	77	12.120	12.120	0.0	95	1314466	8.75	
86 Benzophenone	105	12.144	12.144	0.0	95	1105418	7.77	
89 4-Bromophenyl phenyl ether	248	12.548	12.548	0.0	84	316576	8.43	
91 Hexachlorobenzene	284	12.610	12.610	0.0	77	325280	8.22	
92 Simazine	201	12.762	12.762	0.0	82	189449	0	
93 Atrazine	200	12.800	12.800	0.0	87	714876	15.9	
95 Pentachloronitrobenzene	237	12.881	12.881	0.0	85	177107	8.39	
94 Pentachlorophenol	266	12.885	12.885	0.0	76	309699	16.0	
97 Phenanthrene	178	13.109	13.109	0.0	95	1876065	8.40	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
98 Anthracene	178	13.171	13.171	0.0	95	1859041	8.18	
99 Carbazole	167	13.380	13.380	0.0	99	1752082	8.31	
101 Alachlor	160	13.527	13.527	0.0	92	363761	0	
102 Di-n-butyl phthalate	149	13.765	13.765	0.0	96	2168135	8.87	
104 Fluoranthene	202	14.388	14.388	0.0	97	1859904	8.42	
105 Benzidine	184	14.555	14.555	0.0	99	665035	7.60	
106 Pyrene	202	14.607	14.607	0.0	97	1838620	8.66	
107 Famphur	218	15.168	15.168	0.0	81	750657	0	
108 Butyl benzyl phthalate	149	15.211	15.211	0.0	92	1029510	8.77	
109 3,3'-Dichlorobenzidine	252	15.705	15.705	0.0	73	639062	8.97	
110 Bis(2-ethylhexyl) phthalate	149	15.710	15.710	0.0	95	1422480	8.80	
111 Benzo[a]anthracene	228	15.720	15.720	0.0	97	1544170	9.04	
112 Chrysene	228	15.753	15.753	0.0	91	1451982	7.50	
113 Di-n-octyl phthalate	149	16.248	16.248	0.0	97	2199254	8.63	
114 Benzo[b]fluoranthene	252	16.657	16.657	0.0	91	1459914	7.89	
115 Benzo[k]fluoranthene	252	16.680	16.680	0.0	99	1683049	8.83	
116 Benzo[a]pyrene	252	16.961	16.961	0.0	74	1378466	7.70	
118 Dibenz(a,h)anthracene	278	18.107	18.107	0.0	66	1371245	8.46	
117 Indeno[1,2,3-cd]pyrene	276	18.107	18.107	0.0	95	1621309	8.49	
119 Benzo[g,h,i]perylene	276	18.421	18.421	0.0	92	1334527	8.37	
S 121 3-Methylphenol	1		0.000					

QC Flag Legend

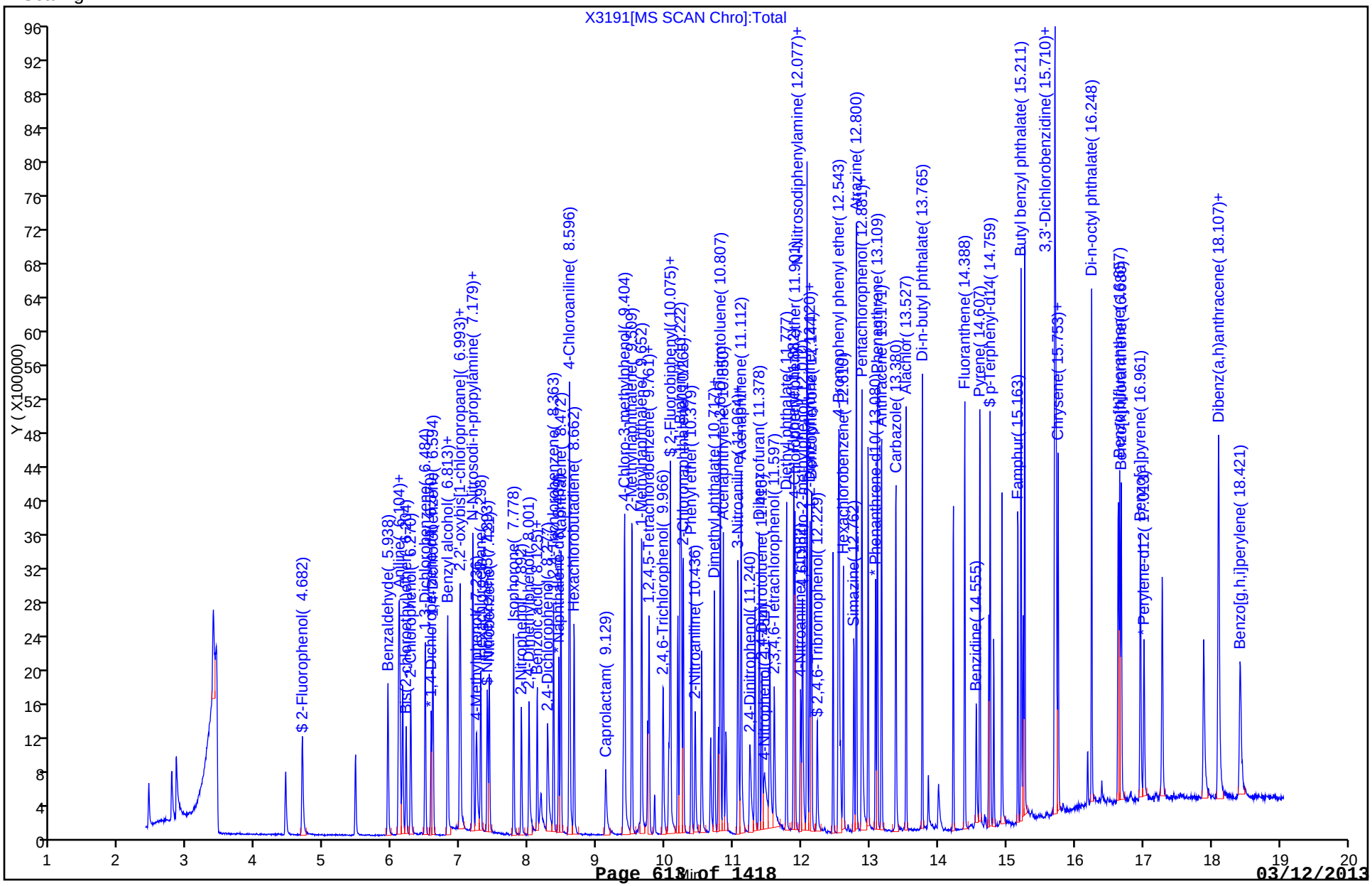
Review Flags
M - Manually Integrated

Report Date: 09-Mar-2013 09:29:28 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3191.D		
Injection Date:	20-Dec-2012 10:36:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96803	Lims Sample ID:	2
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Y Scaling:



Manual Integration/User Assign Peak Report

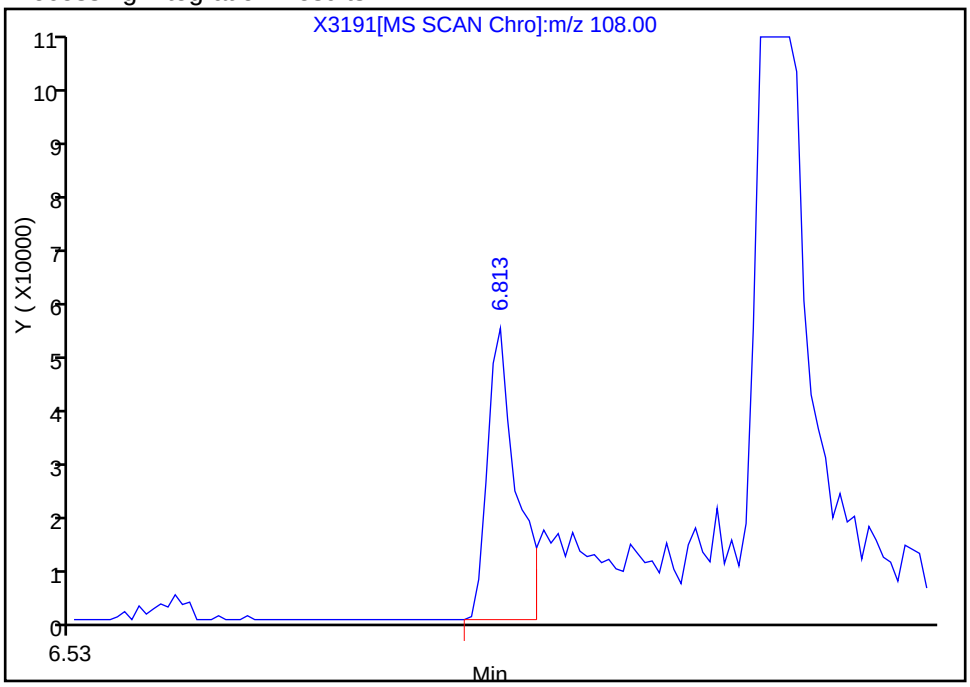
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3191.D		
Injection Date:	20-Dec-2012 10:36:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96803	Lims Sample ID:	2
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

28 Benzyl alcohol, Signal: 1, m/z: 108.0 Type: quant, RT: 6.81

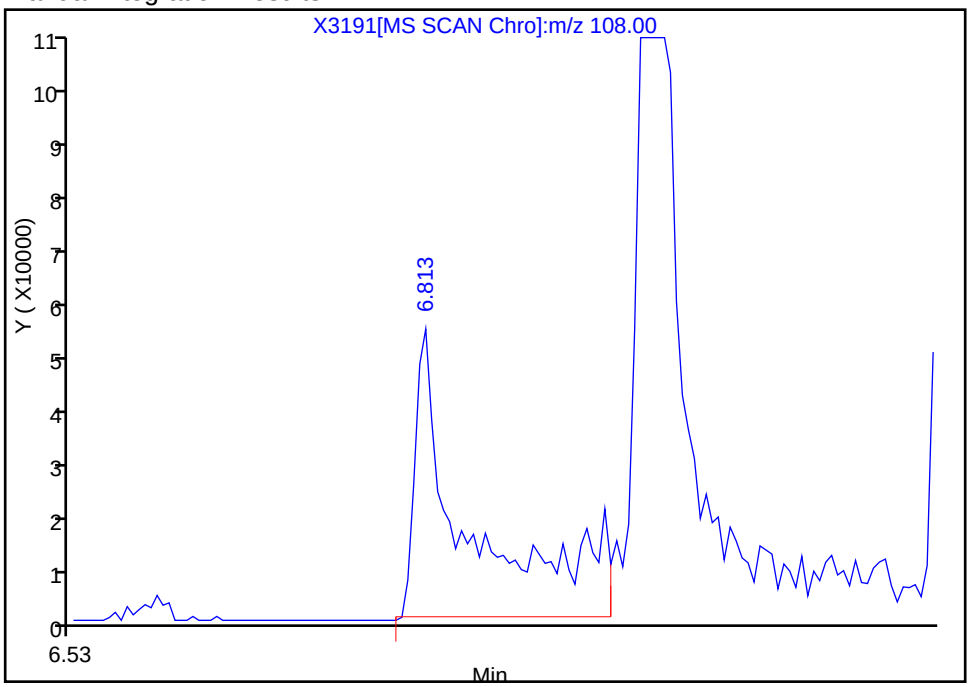
Processing Integration Results

RT: 6.81
Response: 70536
Amount: 3.504746



Manual Integration Results

RT: 6.81
Response: 155383
Amount: 6.989012



Reviewer: mckernar, 20-Dec-2012 11:00:48
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

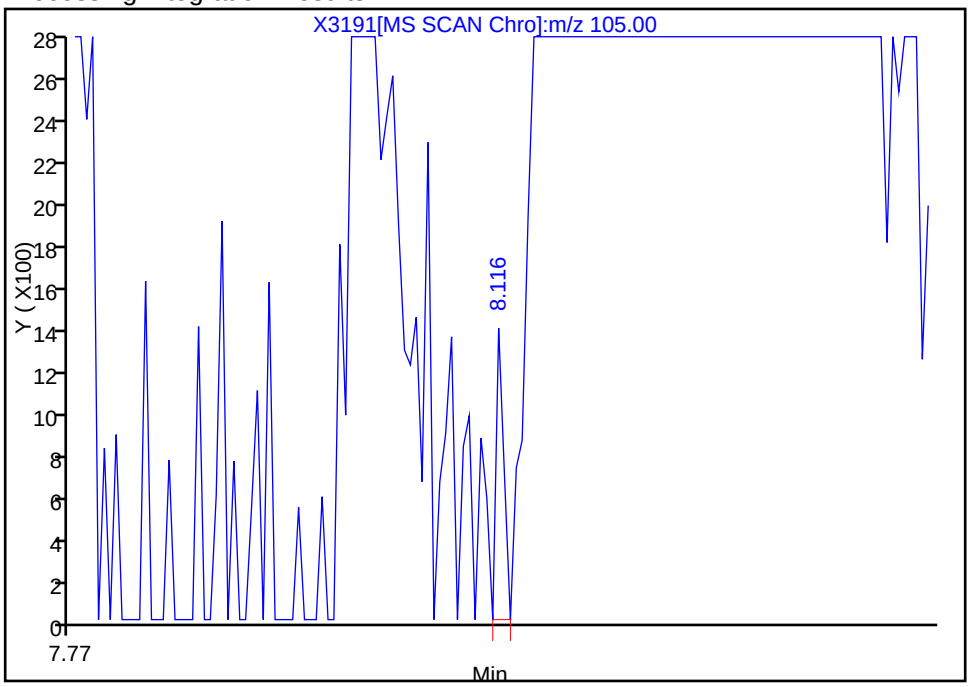
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3191.D		
Injection Date:	20-Dec-2012 10:36:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96803	Lims Sample ID:	2
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

44 Benzoic acid, Signal: 1, m/z: 105.0 Type: quant, RT: 8.18

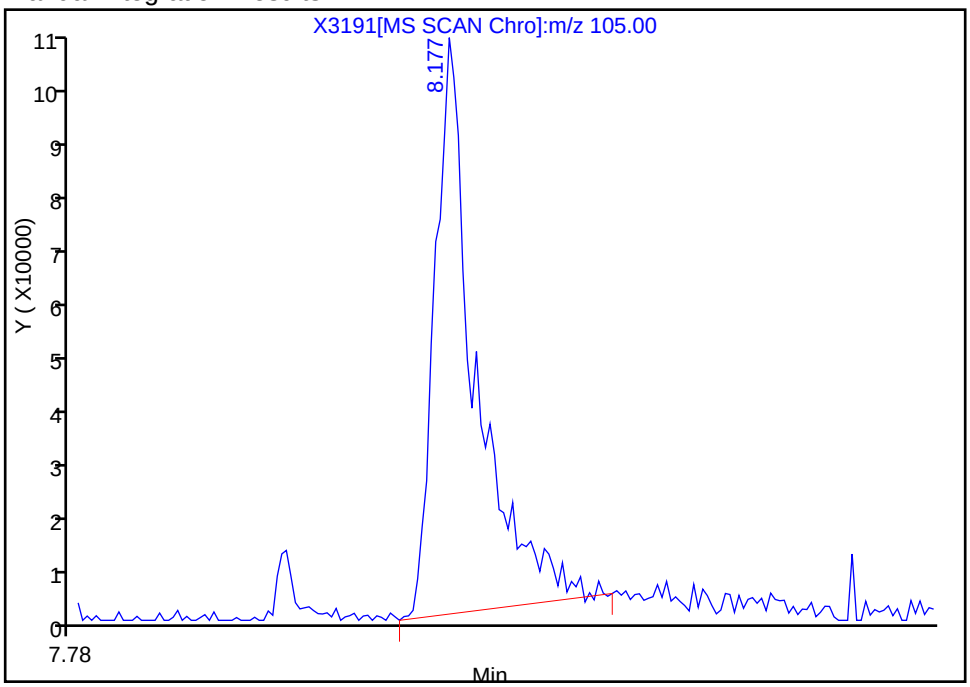
Processing Integration Results

RT: 8.12
Response: 580
Amount: 0.024288



Manual Integration Results

RT: 8.18
Response: 327141
Amount: 9.934290



Reviewer: mckernar, 20-Dec-2012 11:00:48
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 09-Mar-2013 09:29:29 Chrom Revision: 2.0 01-Feb-2013 10:03:10

Manual Integration/User Assign Peak Report

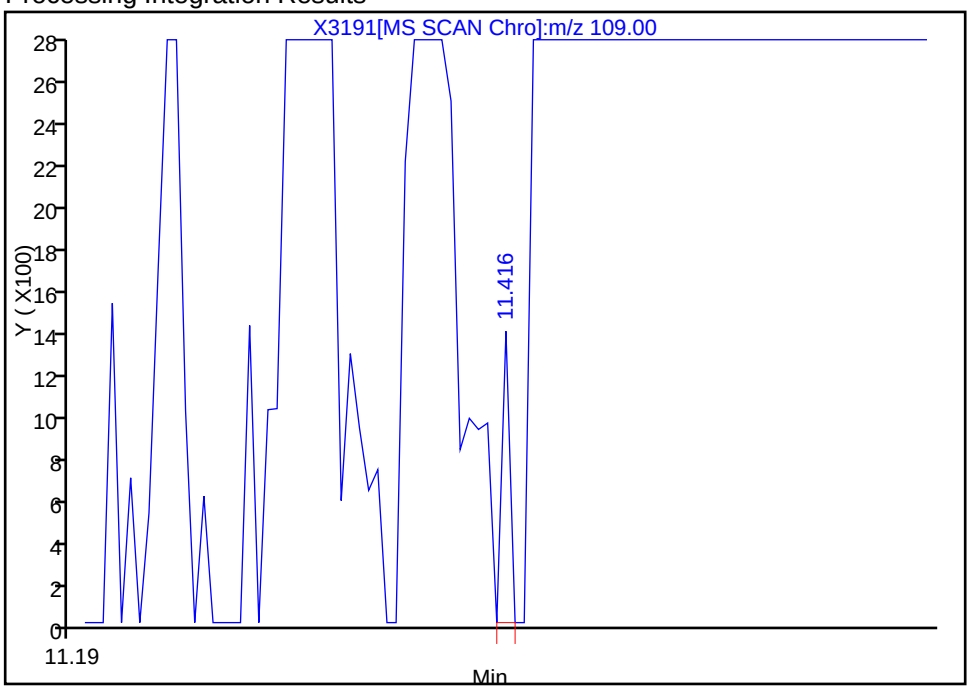
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3191.D		
Injection Date:	20-Dec-2012 10:36:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96803	Lims Sample ID:	2
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

75 4-Nitrophenol, Signal: 1, m/z: 109.0 Type: quant, RT: 11.45

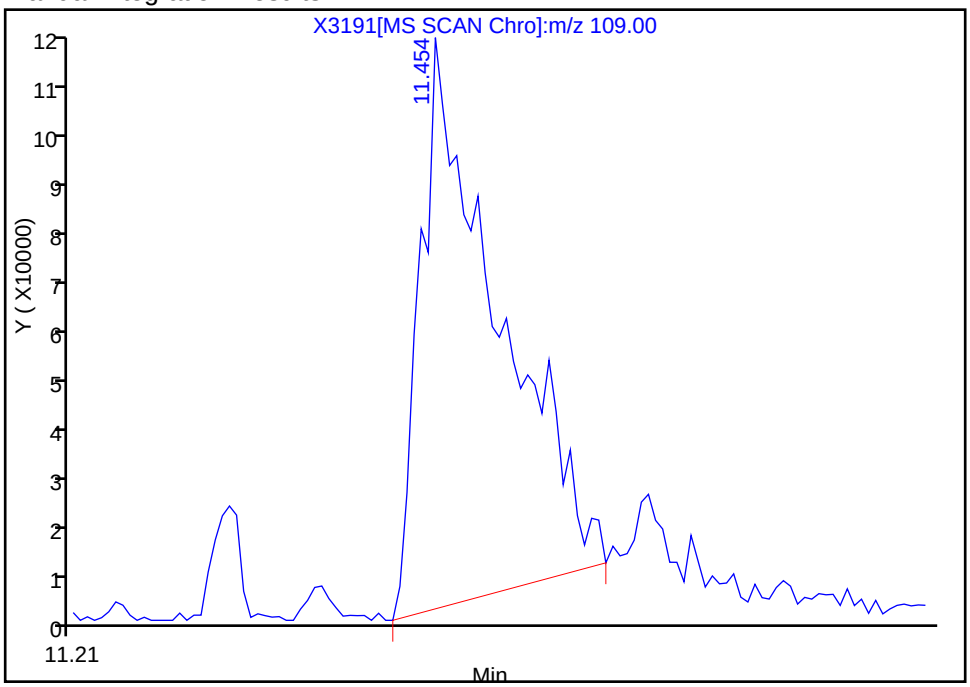
Processing Integration Results

RT: 11.42
Response: 387
Amount: 0.012922



Manual Integration Results

RT: 11.45
Response: 393183
Amount: 13.128627



Reviewer: mckernar, 20-Dec-2012 11:00:48
Audit Action: Manually Integrated
Audit Reason: Assign Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Lab Sample ID: CCVIS 480-97046/2 Calibration Date: 12/21/2012 10:13

Instrument ID: HP5973X Calib Start Date: 12/18/2012 11:20

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 12/18/2012 14:44

Lab File ID: X3222.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Lin1		0.5545		8680	8000	8.5	20.0
N-Nitrosodimethylamine	Ave	0.9135	1.015		8890	8000	11.1	20.0
Pyridine	Ave	0.9276	1.043		9000	8000	12.5	20.0
Benzaldehyde	Ave	0.9800	1.138	0.0100	9290	8000	16.1	20.0
Aniline	Ave	1.831	2.096		9160	8000	14.5	20.0
Phenol	Ave	1.523	1.824	0.7000	9580	8000	19.7	20.0
Bis(2-chloroethyl)ether	Ave	1.199	1.335	0.6000	8910	8000	11.4	20.0
2-Chlorophenol	Ave	1.295	1.506	0.8000	9300	8000	16.3	20.0
1,3-Dichlorobenzene	Ave	1.606	1.685		8400	8000	4.9	20.0
1,4-Dichlorobenzene	Ave	1.604	1.743		8690	8000	8.7	20.0
1,2-Dichlorobenzene	Ave	1.496	1.592		8520	8000	6.5	20.0
Benzyl alcohol	QuaF		0.5993		9840	8000	23.0*	20.0
2-Methylphenol	Ave	1.087	1.291	0.6000	9500	8000	18.8	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.949	1.997	0.0100		8000	2.5	20.0
Acetophenone	Ave	1.854	2.159	0.0100	9310	8000	16.4	20.0
N-Nitrosodi-n-propylamine	Ave	0.9313	1.090	0.0500	9370	8000	17.1	20.0
4-Methylphenol	Ave	1.101	1.329	0.6000	9660	8000	20.7*	20.0
Hexachloroethane	Lin1		0.7094	0.3000	8920	8000	11.5	20.0
Nitrobenzene	Ave	0.3891	0.4282	0.1000	8800	8000	10.0	20.0
Isophorone	Ave	0.6400	0.7041	0.3000	8800	8000	10.0	20.0
2-Nitrophenol	Ave	0.1771	0.2050	0.0500	9260	8000	15.7	20.0
2,4-Dimethylphenol	Ave	0.3340	0.3436	0.1000	8230	8000	2.9	20.0
Bis(2-chloroethoxy)methane	Ave	0.3791	0.4068	0.2000	8580	8000	7.3	20.0
Benzoic acid	QuaF		0.1758		8220	8000	2.7	20.0
2,4-Dichlorophenol	Ave	0.2718	0.3032	0.1000	8920	8000	11.5	20.0
1,2,4-Trichlorobenzene	Ave	0.3341	0.3562		8530	8000	6.6	20.0
Naphthalene	Ave	1.108	1.147	0.6000	8290	8000	3.6	20.0
4-Chloroaniline	Ave	0.4008	0.4610	0.0100	9200	8000	15.0	20.0
Hexachlorobutadiene	Ave	0.1826	0.1941	0.0100	8500	8000	6.3	20.0
Caprolactam	Ave	0.0989	0.1193	0.0100	9650	8000	20.6*	20.0
4-Chloro-3-methylphenol	Ave	0.3003	0.3572	0.2000	9520	8000	19.0	20.0
2-Methylnaphthalene	Ave	0.7764	0.7936	0.4000	8180	8000	2.2	20.0
1-Methylnaphthalene	Ave	0.7151	0.7336			8000	2.6	20.0
Hexachlorocyclopentadiene	QuaF		0.1767	0.0500	7730	8000	-3.4	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.4691	0.5046	0.0100	8610	8000	7.6	20.0
2,4,6-Trichlorophenol	Ave	0.2887	0.3141	0.2000	8700	8000	8.8	20.0
2,4,5-Trichlorophenol	Ave	0.2793	0.3111	0.2000	8910	8000	11.4	20.0
1,1'-Biphenyl	Ave	1.446	1.507	0.0100	8340	8000	4.3	20.0
2-Chloronaphthalene	Lin1		1.087	0.8000	7760	8000	-3.0	20.0
Phenyl ether	Ave	0.7862	0.8185		8330	8000	4.1	20.0
2-Nitroaniline	Ave	0.3311	0.3881	0.0100	9380	8000	17.2	20.0

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Instrument ID: HP5973X Calib Start Date: 12/18/2012 11:20

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 12/18/2012 14:44

Lab File ID: X3222.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dimethyl phthalate	Ave	1.294	1.379	0.0100	8530	8000	6.6	20.0
2,6-Dinitrotoluene	Ave	0.5865	0.6684	0.1000	9120	8000	14.0	20.0
Acenaphthylene	Ave	1.749	1.860	0.9000	8510	8000	6.4	20.0
3-Nitroaniline	Ave	0.2913	0.3264	0.0100	8960	8000	12.0	20.0
Acenaphthene	Ave	1.218	1.183	0.9000	7770	8000	-2.9	20.0
2,4-Dinitrophenol	QuaF		0.1422	0.0100	18500	16000	15.6	20.0
Dibenzofuran	Ave	1.486	1.633	0.8000	8790	8000	9.9	20.0
2,4-Dinitrotoluene	Ave	0.3744	0.4296	0.2000	9180	8000	14.7	20.0
4-Nitrophenol	Ave	0.2503	0.2667	0.0500	17100	16000	6.6	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.2247	0.2446	0.0100	8710	8000	8.9	20.0
Diethyl phthalate	Ave	1.417	1.517	0.0100	8570	8000	7.1	20.0
Fluorene	Ave	1.359	1.393	0.8000	8200	8000	2.5	20.0
4-Chlorophenyl phenyl ether	Ave	0.6017	0.6253	0.4000	8310	8000	3.9	20.0
4-Nitroaniline	Lin1		0.3346	0.0100	8330	8000	4.1	20.0
4,6-Dinitro-2-methylphenol	Lin1		0.2386	0.0100	17700	16000	10.6	20.0
Diphenylamine	Ave	1.164	1.246		8560	8000	7.1	20.0
N-Nitrosodiphenylamine	Ave	1.163	1.246	0.0100	8570	8000	7.1	20.0
1,2-Diphenylhydrazine	Ave	0.7515	0.8896		9470	8000	18.4	20.0
Azobenzene	Ave	0.7500	0.8896		9490	8000	18.6	20.0
Benzophenone	Ave	1.189	1.194		8040	8000	0.4	20.0
4-Bromophenyl phenyl ether	Ave	0.1874	0.1947	0.1000	8310	8000	3.9	20.0
Hexachlorobenzene	Lin1		0.1945	0.1000	7880	8000	-1.5	20.0
Atrazine	Ave	0.3761	0.3832	0.0100	16300	16000	1.9	20.0
Pentachloronitrobenzene	Lin1		0.1062		8070	8000	0.9	20.0
Pentachlorophenol	Lin1		0.1024	0.0500	17000	16000	5.9	20.0
Phenanthrene	Ave	1.115	1.117	0.6000	8010	8000	0.2	20.0
Anthracene	Ave	1.135	1.140	0.6000	8030	8000	0.4	20.0
Carbazole	Ave	1.052	1.070	0.0100		8000	1.7	20.0
Di-n-butyl phthalate	Ave	1.220	1.337	0.0100	8770	8000	9.6	20.0
Fluoranthene	Ave	1.104	1.096	0.6000	7950	8000	-0.7	20.0
Benzidine	Ave	0.5523	0.5311		7690	8000	-3.8	20.0
Pyrene	Ave	1.340	1.466	0.6000	8750	8000	9.4	20.0
Butyl benzyl phthalate	Ave	0.7409	0.8323	0.0100	8990	8000	12.3	20.0
3,3'-Dichlorobenzidine	Ave	0.4492	0.5095	0.0100	9070	8000	13.4	20.0
Bis(2-ethylhexyl) phthalate	Ave	1.020	1.099	0.0100	8620	8000	7.7	20.0
Benzo[a]anthracene	Ave	1.077	1.216	0.6000	9030	8000	12.8	20.0
Chrysene	Ave	1.222	1.126	0.6000	7370	8000	-7.8	20.0
Di-n-octyl phthalate	Ave	1.608	1.750	0.0100	8710	8000	8.8	20.0
Benzo[b]fluoranthene	Ave	1.161	1.269	0.7000	8740	8000	9.3	20.0
Benzo[k]fluoranthene	Ave	1.196	1.243	0.7000	8310	8000	3.9	20.0
Benzo[a]pyrene	Ave	1.123	1.118	0.7000	7970	8000	-0.4	20.0

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Instrument ID: HP5973X Calib Start Date: 12/18/2012 11:20

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 12/18/2012 14:44

Lab File ID: X3222.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibenz(a,h)anthracene	Ave	1.017	1.090	0.4000	8580	8000	7.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.198	1.266	0.5000	8450	8000	5.7	20.0
Benzo[g,h,i]perylene	Ave	1.000	1.023	0.4000	8180	8000	2.3	20.0
2-Fluorophenol	Ave	1.135	1.282		9040	8000	13.0	20.0
Phenol-d5	Ave	1.381	1.641		9510	8000	18.8	20.0
Nitrobenzene-d5	Ave	0.3749	0.4245		9060	8000	13.2	20.0
2-Fluorobiphenyl	Ave	1.255	1.360		8670	8000	8.4	20.0
2,4,6-Tribromophenol	Ave	0.0920	0.0986		8570	8000	7.2	20.0
p-Terphenyl-d14	Ave	0.9641	1.059		8790	8000	9.9	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3222.D
Lims ID: CCVIS Client ID:
Inject. Date: 21-Dec-2012 10:13:30 Dil. Factor: 1.0000
Sample Type: CCVIS
Sample ID: 480-0017772-002
Misc. Info.:
Operator: ANM Instrument ID: HP5973X
Injection Vol: 1.0 ul ALS Bottle#: 3
Lims Batch ID: 97046 Lims Sample ID: 2
Sublist: chrom-X-8270LL*sub20
Detector: MS SCAN

Method: \\Bufchrom\ChromData\HP5973X\20121221-17772.b\X-8270LL.m
Last Update: 28-Feb-2013 08:54:58 Calib Date: 18-Dec-2012 14:44:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3139.D
Limit Group: MB - 8270RCP_MCP ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: RXI-5Sil MS Column Dia: 0.25 mm
Process Host: XAWRK028

First Level Reviewer: mckernar Date: 21-Dec-2012 10:40:05

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.599	6.599	0.0	83	198819	5.00	
* 2 Naphthalene-d8	136	8.491	8.491	0.0	96	779062	5.00	
* 3 Acenaphthene-d10	164	11.107	11.107	0.0	90	510619	5.00	
* 4 Phenanthrene-d10	188	13.114	13.114	0.0	97	898941	5.00	
* 5 Chrysene-d12	240	15.767	15.767	0.0	95	702599	5.00	
* 6 Perylene-d12	264	17.056	17.056	0.0	98	707467	5.00	
$ 7 2-Fluorophenol	112	4.677	4.677	0.0	70	407719	9.04	
$ 8 Phenol-d5	99	6.109	6.109	0.0	87	522097	9.51	
$ 9 Nitrobenzene-d5	82	7.431	7.431	0.0	82	529172	9.06	
$ 10 2-Fluorobiphenyl	172	10.122	10.122	0.0	95	1111299	8.67	
$ 11 2,4,6-Tribromophenol	330	12.262	12.262	0.0	72	141783	8.57	
$ 12 p-Terphenyl-d14	244	14.792	14.792	0.0	95	1190783	8.79	
18 1,4-Dioxane	88	2.452	2.452	0.0	73	176397	8.68	
19 N-Nitrosodimethylamine	42	2.785	2.785	0.0	71	322807	8.89	
20 Pyridine	52	2.851	2.851	0.0	76	331809	9.00	
21 Benzaldehyde	77	5.952	5.952	0.0	90	361903	9.29	
23 Aniline	93	6.118	6.118	0.0	93	666828	9.16	
22 Phenol	94	6.128	6.128	0.0	43	580081	9.58	
24 Bis(2-chloroethyl)ether	93	6.223	6.223	0.0	99	424772	8.91	
25 2-Chlorophenol	128	6.289	6.289	0.0	97	478961	9.30	
26 1,3-Dichlorobenzene	146	6.508	6.508	0.0	97	536128	8.40	
27 1,4-Dichlorobenzene	146	6.622	6.622	0.0	82	554444	8.69	
28 Benzyl alcohol	108	6.841	6.841	0.0	65	190637	9.84	M
29 1,2-Dichlorobenzene	146	6.841	6.841	0.0	84	506507	8.52	
31 2-Methylphenol	108	7.027	7.027	0.0	74	410725	9.50	
32 2,2'-oxybis[1-chloropropane]	45	7.036	7.036	0.0	71	635402	8.20	M
33 Acetophenone	105	7.217	7.217	0.0	90	686795	9.31	
34 N-Nitrosodi-n-propylamine	70	7.222	7.222	0.0	93	346863	9.37	
36 4-Methylphenol	108	7.274	7.274	0.0	80	422690	9.66	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
37 Hexachloroethane	117	7.336	7.336	0.0	93	225662	8.92	
38 Nitrobenzene	77	7.464	7.464	0.0	75	533709	8.80	
40 Isophorone	82	7.826	7.826	0.0	76	877673	8.80	
41 2-Nitrophenol	139	7.940	7.940	0.0	87	255493	9.26	
43 2,4-Dimethylphenol	107	8.054	8.054	0.0	86	428286	8.23	
45 Bis(2-chloroethoxy)methane	93	8.173	8.173	0.0	98	507081	8.58	
44 Benzoic acid	105	8.235	8.235	0.0	1	219069	8.22	
47 2,4-Dichlorophenol	162	8.325	8.325	0.0	83	377941	8.92	
48 1,2,4-Trichlorobenzene	180	8.410	8.410	0.0	98	443999	8.53	
49 Naphthalene	128	8.520	8.520	0.0	93	1429840	8.29	
51 4-Chloroaniline	127	8.648	8.648	0.0	87	574574	9.20	
52 Hexachlorobutadiene	225	8.715	8.715	0.0	85	241947	8.50	
54 Caprolactam	113	9.186	9.186	0.0	79	148714	9.65	
55 4-Chloro-3-methylphenol	107	9.438	9.438	0.0	94	445268	9.52	
56 2-Methylnaphthalene	142	9.561	9.561	0.0	79	989231	8.18	
57 1-Methylnaphthalene	142	9.704	9.704	0.0	94	914364	8.21	
58 Hexachlorocyclopentadiene	237	9.794	9.794	0.0	82	144329	7.73	
59 1,2,4,5-Tetrachlorobenzene	216	9.813	9.813	0.0	87	412227	8.61	
60 2,4,6-Trichlorophenol	196	10.018	10.018	0.0	96	256610	8.70	
61 2,4,5-Trichlorophenol	196	10.108	10.108	0.0	94	254176	8.91	
62 1,1'-Biphenyl	154	10.265	10.265	0.0	99	1231368	8.34	
63 2-Chloronaphthalene	162	10.313	10.313	0.0	95	888350	7.76	
64 Phenyl ether	170	10.427	10.427	0.0	90	668722	8.33	
65 2-Nitroaniline	65	10.484	10.484	0.0	81	317110	9.38	
66 1,4-Dinitrobenzene	75	10.712	10.712	0.0	87	200294	0	
67 Dimethyl phthalate	163	10.764	10.764	0.0	94	1126578	8.53	
68 2,6-Dinitrotoluene	165	10.850	10.850	0.0	89	546094	9.12	
69 Acenaphthylene	152	10.898	10.898	0.0	90	1519652	8.51	
70 3-Nitroaniline	138	11.116	11.116	0.0	91	266658	8.96	
71 Acenaphthene	153	11.154	11.154	0.0	90	966426	7.77	
72 2,4-Dinitrophenol	184	11.288	11.288	0.0	89	232264	18.5	
73 Dibenzofuran	168	11.421	11.421	0.0	98	1334149	8.79	
74 2,4-Dinitrotoluene	165	11.459	11.459	0.0	98	350964	9.18	
75 4-Nitrophenol	109	11.492	11.492	0.0	51	435844	17.1	M
76 2,3,4,6-Tetrachlorophenol	232	11.640	11.640	0.0	87	199822	8.71	
78 Diethyl phthalate	149	11.811	11.811	0.0	92	1239655	8.57	
79 Fluorene	166	11.920	11.920	0.0	81	1138188	8.20	
80 4-Chlorophenyl phenyl ether	204	11.939	11.939	0.0	89	510890	8.31	
81 4-Nitroaniline	138	12.025	12.025	0.0	82	273390	8.33	
82 4,6-Dinitro-2-methylphenol	198	12.048	12.048	0.0	60	389796	17.7	
83 N-Nitrosodiphenylamine	169	12.115	12.115	0.0	99	1791651	8.57	
84 Diphenylamine	169	12.115	12.115	0.0	99	1791651	8.56	
85 Azobenzene	77	12.153	12.153	0.0	95	1279530	9.49	
16 1,2-Diphenylhydrazine	77	12.153	12.153	0.0	96	1279530	9.47	
86 Benzophenone	105	12.177	12.177	0.0	97	975750	8.04	
89 4-Bromophenyl phenyl ether	248	12.581	12.581	0.0	84	280034	8.31	
91 Hexachlorobenzene	284	12.643	12.643	0.0	76	279753	7.88	
92 Simazine	201	12.795	12.795	0.0	81	166399	0	
93 Atrazine	200	12.833	12.833	0.0	88	626140	16.3	
95 Pentachloronitrobenzene	237	12.909	12.909	0.0	84	152671	8.07	
94 Pentachlorophenol	266	12.914	12.914	0.0	76	294593	17.0	
97 Phenanthrene	178	13.142	13.142	0.0	95	1606016	8.01	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
98 Anthracene	178	13.204	13.204	0.0	95	1639621	8.03	
99 Carbazole	167	13.413	13.413	0.0	98	1539043	8.13	
101 Alachlor	160	13.561	13.561	0.0	91	329227	0	
102 Di-n-butyl phthalate	149	13.799	13.799	0.0	96	1922516	8.77	
104 Fluoranthene	202	14.422	14.422	0.0	97	1576308	7.95	
105 Benzidine	184	14.593	14.593	0.0	99	596993	7.69	
106 Pyrene	202	14.645	14.645	0.0	98	1647920	8.75	
107 Famphur	218	15.201	15.201	0.0	83	652654	0	
108 Butyl benzyl phthalate	149	15.244	15.244	0.0	94	935660	8.99	
109 3,3'-Dichlorobenzidine	252	15.739	15.739	0.0	71	572808	9.07	
110 Bis(2-ethylhexyl) phthalate	149	15.739	15.739	0.0	95	1235050	8.62	
111 Benzo[a]anthracene	228	15.753	15.753	0.0	98	1366438	9.03	
112 Chrysene	228	15.791	15.791	0.0	91	1266268	7.37	
113 Di-n-octyl phthalate	149	16.281	16.281	0.0	97	1967301	8.71	
114 Benzo[b]fluoranthene	252	16.695	16.695	0.0	94	1436598	8.74	
115 Benzo[k]fluoranthene	252	16.718	16.718	0.0	98	1406611	8.31	
116 Benzo[a]pyrene	252	17.004	17.004	0.0	71	1265973	7.97	
118 Dibenz(a,h)anthracene	278	18.155	18.155	0.0	57	1234279	8.58	
117 Indeno[1,2,3-cd]pyrene	276	18.155	18.155	0.0	95	1433195	8.45	
119 Benzo[g,h,i]perylene	276	18.473	18.473	0.0	93	1157785	8.18	
S 121 3-Methylphenol	1		0.000					

QC Flag Legend

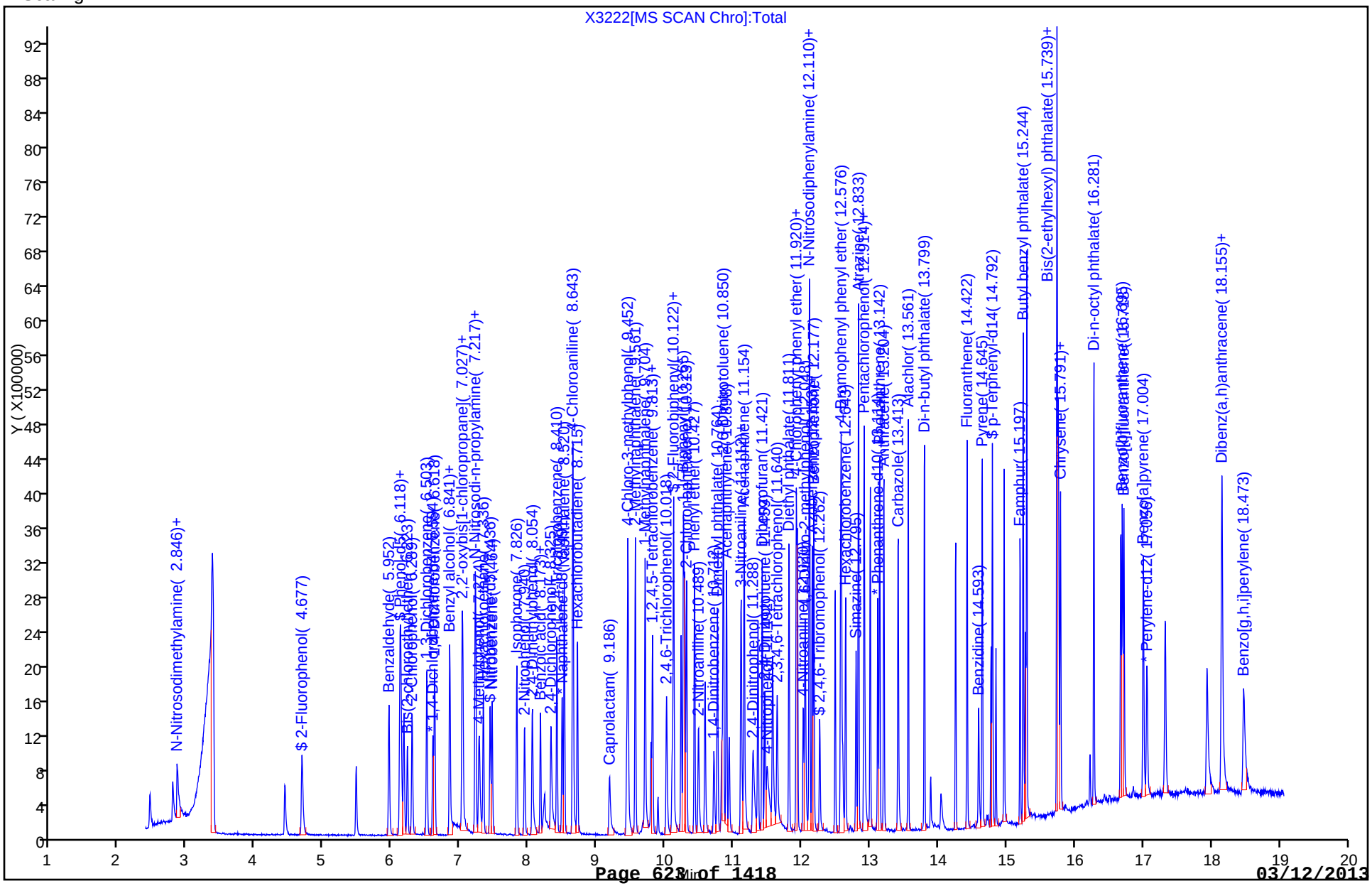
Review Flags
M - Manually Integrated

Report Date: 28-Feb-2013 08:54:58 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3222.D		
Injection Date:	21-Dec-2012 10:13:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	2
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Y Scaling:



Manual Integration/User Assign Peak Report

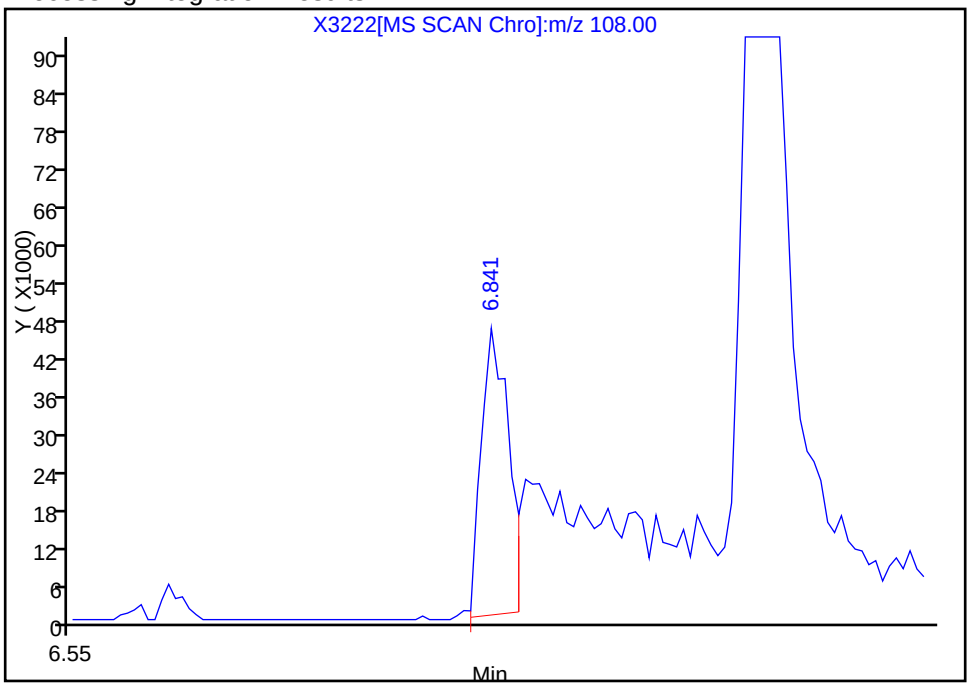
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3222.D		
Injection Date:	21-Dec-2012 10:13:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	2
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

28 Benzyl alcohol, Signal: 1, m/z: 108.0 Type: quant, RT: 6.84

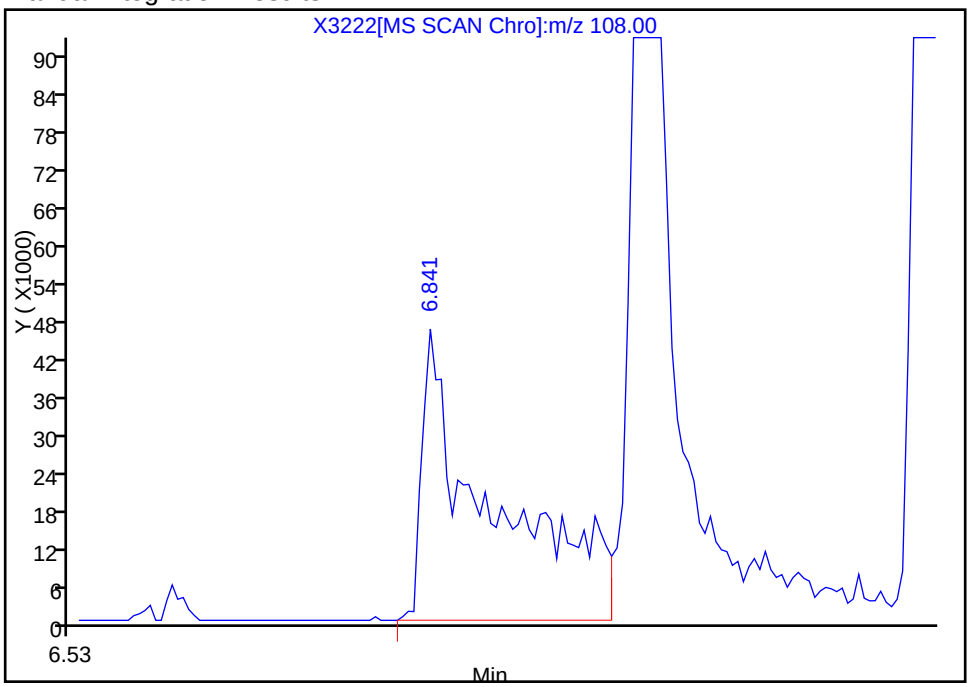
Processing Integration Results

RT: 6.84
Response: 60438
Amount: 3.693092



Manual Integration Results

RT: 6.84
Response: 190637
Amount: 9.841433



Reviewer: mckernar, 21-Dec-2012 10:40:05
Audit Action: Manually Integrated
Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

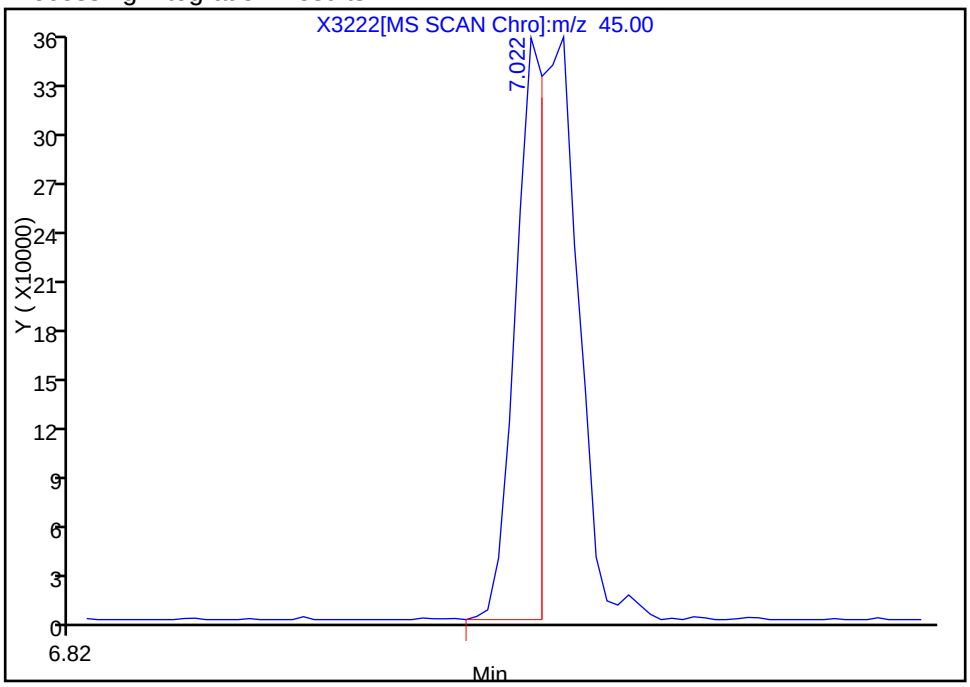
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3222.D		
Injection Date:	21-Dec-2012 10:13:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	2
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

32 2,2'-oxybis[1-chloropropane], Signal: 1, m/z: 45.0 Type: quant, RT: 7.04

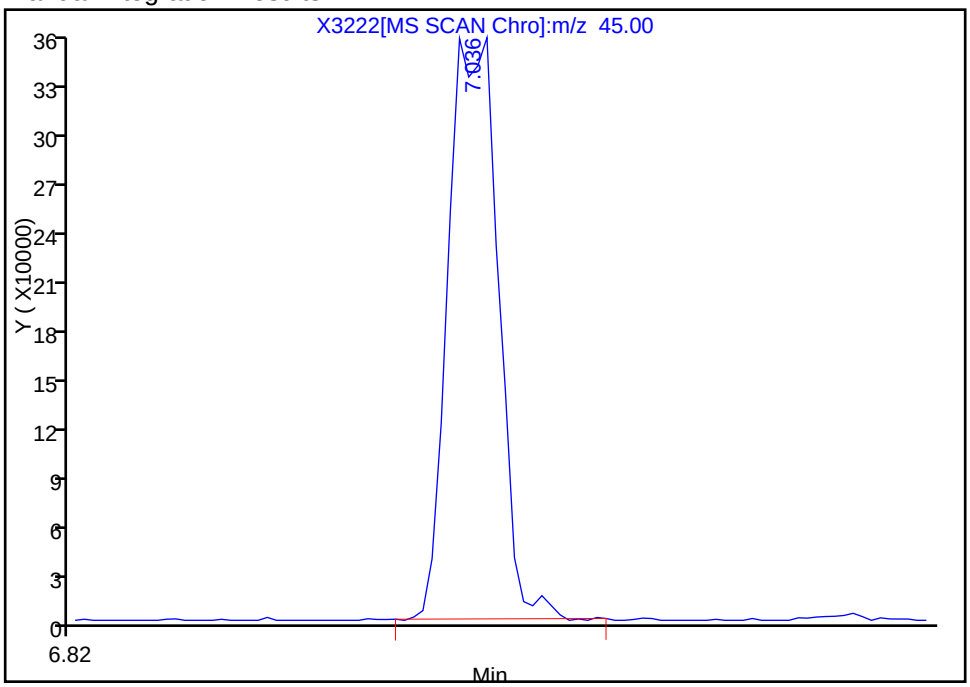
Processing Integration Results

RT: 7.02
Response: 313555
Amount: 4.045556



Manual Integration Results

RT: 7.04
Response: 635402
Amount: 8.198096



Reviewer: mckernar, 21-Dec-2012 10:40:05
Audit Action: Manually Integrated
Audit Reason: Split Peak

Report Date: 28-Feb-2013 08:54:58 Chrom Revision: 2.0 01-Feb-2013 10:03:10

Manual Integration/User Assign Peak Report

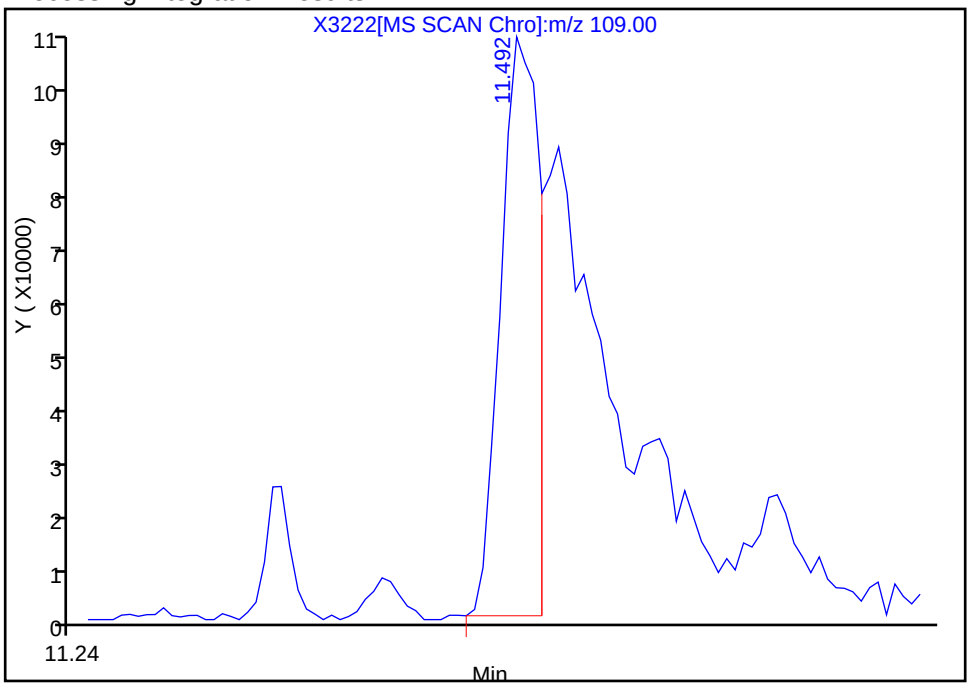
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3222.D		
Injection Date:	21-Dec-2012 10:13:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	2
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

75 4-Nitrophenol, Signal: 1, m/z: 109.0 Type: quant, RT: 11.49

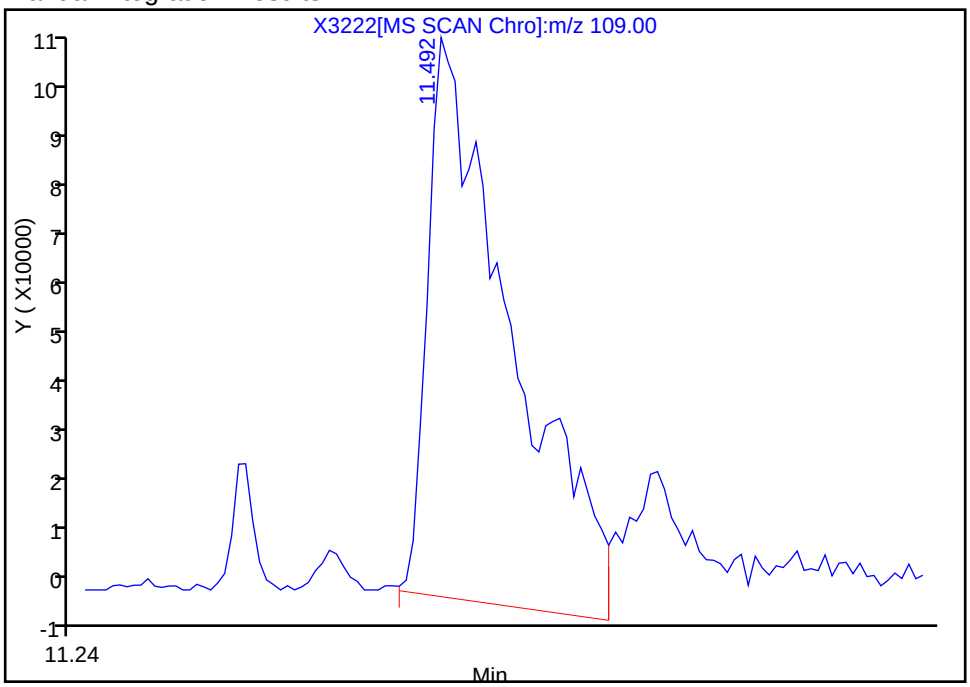
Processing Integration Results

RT: 11.49
Response: 164660
Amount: 6.442606



Manual Integration Results

RT: 11.49
Response: 435844
Amount: 17.053147



Reviewer: mckernar, 21-Dec-2012 10:40:05
Audit Action: Manually Integrated
Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3130.D		
Lims ID:	DFTPP	Client ID:	
Inject. Date:	18-Dec-2012 11:04:30	Dil. Factor:	1.0000
Sample Type:	DFTPP		
Sample ID:	480-0017654-001		
Misc. Info.:			
Operator:	ANM	Instrument ID:	HP5973X
Injection Vol:	1.0 ul	ALS Bottle#:	2
Lims Batch ID:	96347	Lims Sample ID:	1
Detector:	MS SCAN		
Method:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X-8270LL.m		
Last Update:	18-Dec-2012 16:42:53	Calib Date:	18-Dec-2012 14:44:30
Quant Method:	Internal Standard	Quant By:	Continuing Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3139.D		
Limit Group:	MB - 8270RCP_MCP ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm
Process Host:	XAWRK017		

First Level Reviewer: mckernar Date: 18-Dec-2012 16:42:53

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
30 Pentachlorophenol_T	266	6.803	6.803	0.0	80	1439409	0	
35 DFTPP								
39 4,4'-DDE	246		7.713					
46 Benzidine_T	184	8.171	8.171	0.0	93	8089248	0	
50 4,4'-DDD	235	8.604	8.604	0.0	36	21681	0	
53 4,4'-DDT	235	8.839	8.839	0.0	87	3937389	0	

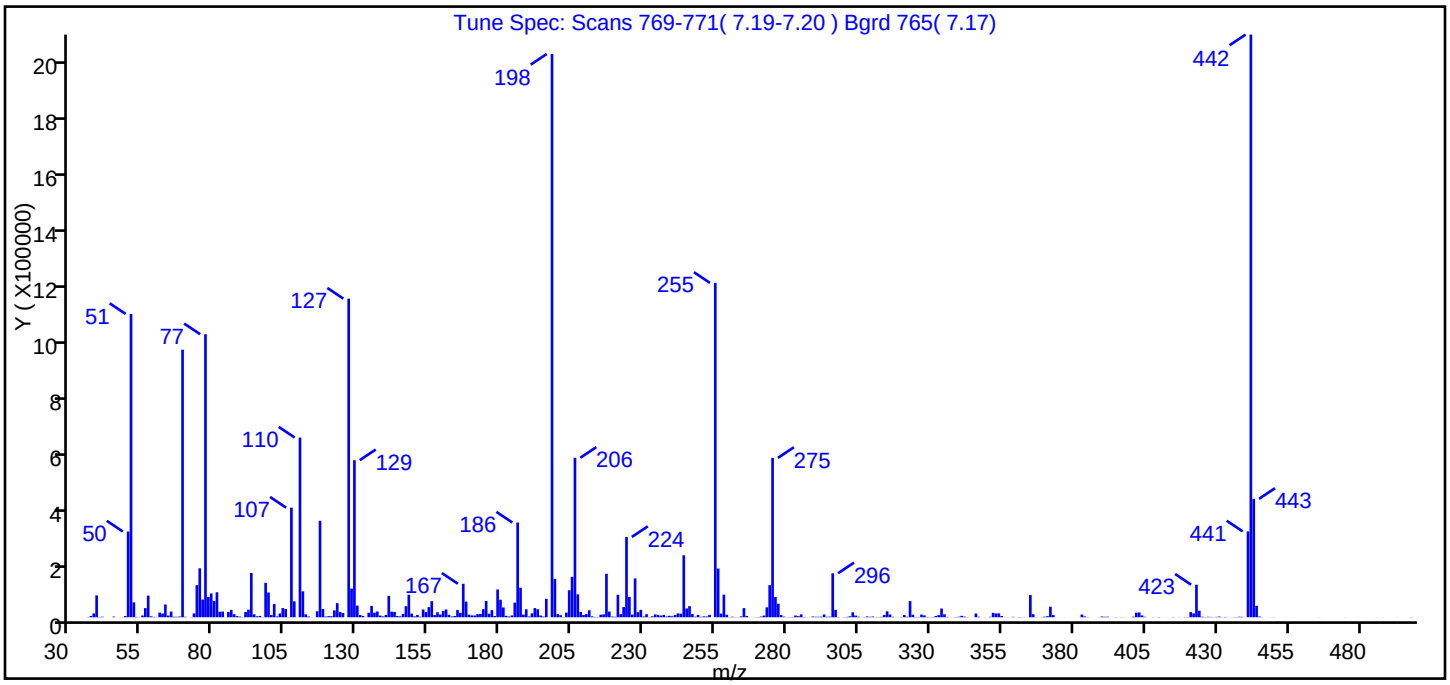
Report Date: 18-Dec-2012 16:42:54 Chrom Revision: 2.0 22-Oct-2012 16:30:48

MS Tune Report

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3130.D		
Injection Date:	18-Dec-2012 11:04:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	1
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm
Tune Method:	DFTPP Method 8270		

35 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	53.84
68	Less than 2.00% of mass 69	0.14 (0.29)
69	Present	47.50
70	Less than 2.00% of mass 69	0.08 (0.17)
127	40.00 - 60.00% of mass 198	56.56
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.82
275	10.00 - 30.00% of mass 198	28.29
365	Greater than 1.00% of mass 198	3.95
441	Present, but less than mass 443%	15.24 (72.50)
442	Greater than 40.00% of mass 198	103.44
443	17.00 - 23.00% of mass 442	21.02 (20.33)

Data File: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3130.D\X-8270LL.rslt\spectra.d
Injection Date: 18-Dec-2012 11:04:30
Spectrum: Tune Spec: Scans 769-771(7.19-7.20) Bgrd 765(7.17)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 382

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	601	141.00	75584	238.00	2533	338.00	227
37.00	4569	142.00	19824	239.00	5317	339.00	958
38.00	13637	143.00	18768	240.00	3212	340.00	1789
39.00	77392	144.00	4222	241.00	8118	341.00	5019
40.00	1256	145.00	3135	242.00	13862	342.00	2283
41.00	1801	146.00	11937	243.00	12673	343.00	805
45.00	2467	147.00	39000	244.00	219264	346.00	13248
47.00	159	148.00	79600	245.00	30992	347.00	1950
48.00	356	149.00	13036	246.00	39376	349.00	468
49.00	4213	150.00	3083	247.00	11776	351.00	1635
50.00	303424	151.00	8151	248.00	1909	352.00	15619
51.00	1073152	152.00	1897	249.00	8417	353.00	13644
52.00	52632	153.00	27440	250.00	1541	354.00	13740
53.00	1241	154.00	18496	251.00	3189	355.00	4520
54.00	377	155.00	35712	252.00	2672	356.00	205
55.00	6237	156.00	56960	253.00	8375	357.00	474
56.00	32448	157.00	7627	255.00	1183232	358.00	207
57.00	76616	158.00	17720	256.00	172480	359.00	1456
58.00	3263	159.00	9559	257.00	12816	361.00	853
59.00	1428	160.00	22480	258.00	80000	362.00	525
60.00	376	161.00	27696	259.00	8827	363.00	350
61.00	16383	162.00	8580	260.00	527	365.00	78824
62.00	13246	163.00	2685	261.00	1930	366.00	10834
63.00	45120	164.00	4439	262.00	547	367.00	458
64.00	5977	165.00	25904	263.00	512	369.00	533
65.00	20104	166.00	15633	264.00	3059	370.00	2008
66.00	2098	167.00	118528	265.00	32472	371.00	3888
67.00	1713	168.00	55392	266.00	4782	372.00	37256
68.00	2738	169.00	9329	269.00	647	373.00	7797
69.00	946752	170.00	6481	270.00	826	375.00	204
70.00	1630	171.00	6052	271.00	2567	377.00	250
72.00	436	172.00	10782	272.00	6105	383.00	9742
73.00	13669	173.00	11984	273.00	35160	384.00	3054

Report Date: 18-Dec-2012 16:42:54 Chrom Revision: 2.0 22-Oct-2012 16:30:48
Data File: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3130.D\X-8270LL.rslt\spectra.d
Injection Date: 18-Dec-2012 11:04:30
Spectrum: Tune Spec: Scans 769-771(7.19-7.20) Bgrd 765(7.17)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 382

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	113584	174.00	28880	274.00	113576	385.00	497
75.00	173312	175.00	57720	275.00	563840	389.00	333
76.00	62536	176.00	12496	276.00	71408	390.00	2660
77.00	1001536	177.00	25152	277.00	47856	391.00	1628
78.00	71528	178.00	4423	278.00	7736	392.00	1950
79.00	84224	179.00	98272	279.00	1979	394.00	212
80.00	58008	180.00	62040	280.00	298	395.00	745
81.00	88448	181.00	34576	281.00	878	396.00	190
82.00	19488	182.00	5074	282.00	893	397.00	504
83.00	20040	183.00	2607	283.00	6260	398.00	346
84.00	390	184.00	6402	284.00	3882	399.00	223
85.00	18728	185.00	51720	285.00	10057	401.00	2090
86.00	26128	186.00	335232	286.00	1101	402.00	16214
87.00	10972	187.00	104472	287.00	405	403.00	16928
88.00	4190	188.00	9360	288.00	186	404.00	6495
89.00	2605	189.00	28200	289.00	2469	405.00	1557
90.00	696	190.00	2804	290.00	1817	408.00	563
91.00	18600	191.00	13874	291.00	1691	409.00	171
92.00	26824	192.00	32456	292.00	2181	410.00	823
93.00	156672	193.00	28320	293.00	9881	412.00	183
94.00	10394	194.00	6163	294.00	1787	413.00	211
95.00	3384	195.00	2460	295.00	2181	414.00	348
96.00	4717	196.00	65344	296.00	155648	415.00	730
97.00	640	198.00	1993216	297.00	26168	417.00	440
98.00	121936	199.00	136000	298.00	973	419.00	857
99.00	87496	200.00	11336	300.00	733	420.00	615
100.00	7902	201.00	7226	301.00	1256	421.00	18392
101.00	46696	202.00	832	302.00	3524	422.00	13514
102.00	3090	203.00	16528	303.00	17544	423.00	115272
103.00	13457	204.00	95528	304.00	6053	424.00	23096
104.00	32592	205.00	143104	305.00	2052	425.00	1961
105.00	29024	206.00	564288	306.00	195	426.00	671
106.00	637	207.00	81088	307.00	627	427.00	1548
107.00	387904	208.00	18480	308.00	2937	428.00	1165

Report Date: 18-Dec-2012 16:42:54 Chrom Revision: 2.0 22-Oct-2012 16:30:48
Data File: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3130.D\X-8270LL.rslt\spectra.d
Injection Date: 18-Dec-2012 11:04:30
Spectrum: Tune Spec: Scans 769-771(7.19-7.20) Bgrd 765(7.17)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 382

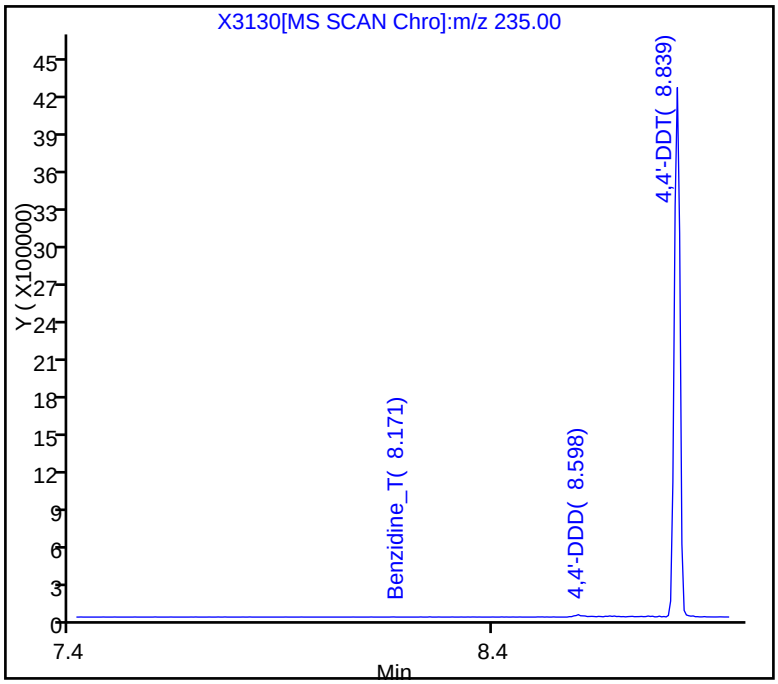
m/z	Y	m/z	Y	m/z	Y	m/z	Y
108.00	56360	209.00	7797	309.00	1700	429.00	544
110.00	635968	210.00	11285	310.00	2578	430.00	1308
111.00	91656	211.00	24832	311.00	609	431.00	2439
112.00	10233	212.00	3280	312.00	630	432.00	365
113.00	2786	213.00	1136	313.00	1487	433.00	1204
114.00	341	214.00	1108	314.00	7896	434.00	215
116.00	21016	215.00	9047	315.00	21096	435.00	286
117.00	341312	216.00	10100	316.00	9754	436.00	482
118.00	29104	217.00	153984	317.00	1777	437.00	890
119.00	2615	218.00	20096	318.00	212	438.00	1793
120.00	3801	219.00	2406	319.00	311	439.00	1489
121.00	3687	220.00	1774	320.00	1159	441.00	303808
122.00	24352	221.00	79416	321.00	7699	442.00	2061824
123.00	50096	222.00	10975	322.00	1744	443.00	419072
124.00	18496	223.00	35992	323.00	57048	444.00	40488
125.00	15172	224.00	284096	324.00	9076	445.00	2678
127.00	1127424	225.00	71960	325.00	827	446.00	442
128.00	101408	226.00	9540	326.00	928	448.00	182
129.00	555776	227.00	137408	327.00	9583	449.00	197
130.00	41376	228.00	18024	328.00	6590	450.00	454
131.00	7924	229.00	26336	329.00	1330	457.00	178
132.00	4401	230.00	2730	330.00	621	466.00	261
134.00	15882	231.00	10886	331.00	926	475.00	210
135.00	40272	232.00	1145	332.00	4494	486.00	421
136.00	16166	233.00	3335	333.00	7496	488.00	247
137.00	20200	234.00	9987	334.00	30904	493.00	174
138.00	5944	235.00	8447	335.00	10325	498.00	720
139.00	3109	236.00	5701	336.00	1057		
140.00	8425	237.00	8315	337.00	285		

Breakdown Report

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3130.D		
Injection Date:	18-Dec-2012 11:04:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	1
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

53 4,4'-DDT, Detector: MS SCAN



SW-846 Method

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

53 4,4'-DDT, Area = 3937389
50 4,4'-DDD, Area = 21681
39 4,4'-DDE, Area = 0

%Breakdown: 0.55%, Max Limit: 20.00%
Passed

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3190.D		
Lims ID:	DFTPP	Client ID:	
Inject. Date:	20-Dec-2012 10:20:30	Dil. Factor:	1.0000
Sample Type:	DFTPP		
Sample ID:	480-0017736-001		
Misc. Info.:			
Operator:	ANM	Instrument ID:	HP5973X
Injection Vol:	1.0 ul	ALS Bottle#:	2
Lims Batch ID:	96803	Lims Sample ID:	1
Detector:	MS SCAN		

Method:	\\Bufchrom\ChromData\HP5973X\20121220-17736.b\X-8270LL.m		
Last Update:	20-Dec-2012 11:00:50	Calib Date:	18-Dec-2012 14:44:30
Quant Method:	Internal Standard	Quant By:	Continuing Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3139.D		
Limit Group:	MB - 8270RCP_MCP ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm
Process Host:	XAWRK010		

First Level Reviewer: mckernar Date: 20-Dec-2012 11:00:50

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
30 Pentachlorophenol_T	266	6.782	6.782	0.0	82	784693	0	
35 DFTPP								
39 4,4'-DDE	246		7.713					9
46 Benzidine_T	184	8.160	8.160	0.0	97	5227188	0	
50 4,4'-DDD	235	8.588	8.588	0.0	43	17623	0	
53 4,4'-DDT	235	8.833	8.833	0.0	92	2333983	0	

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

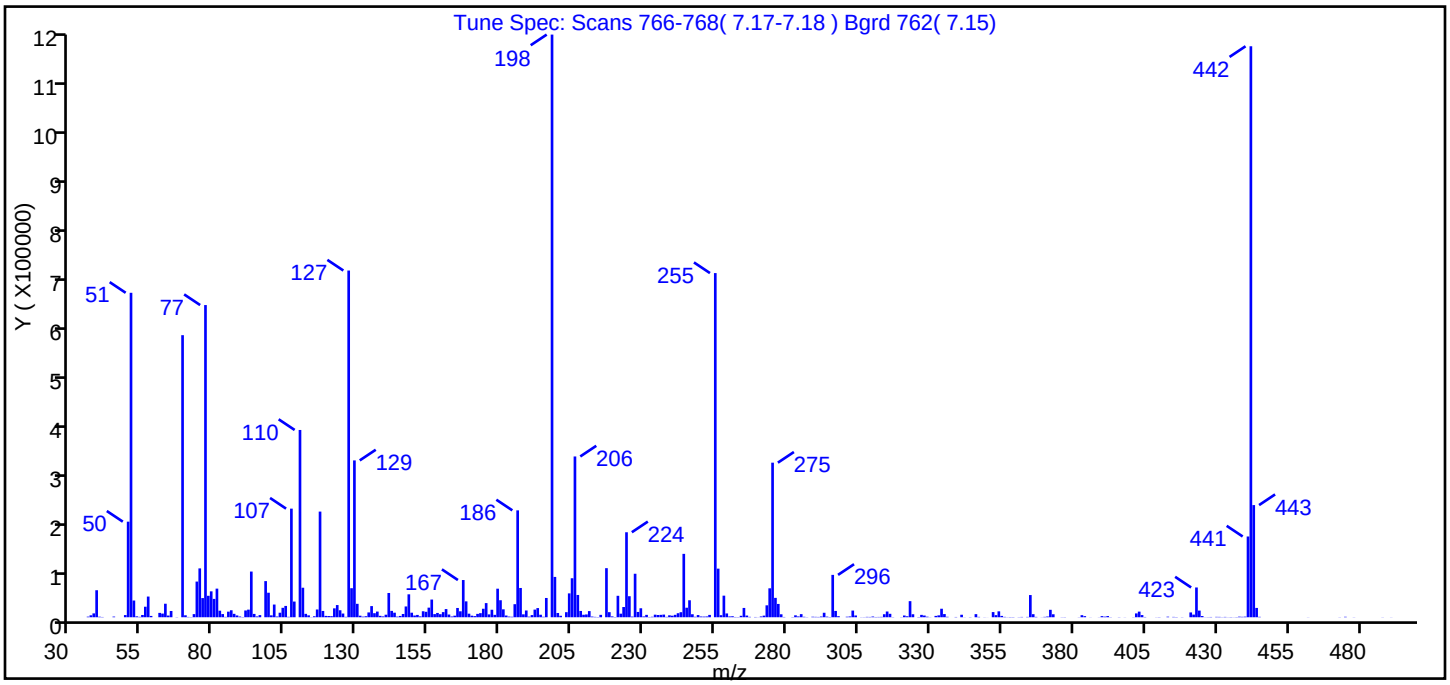
Report Date: 20-Dec-2012 11:00:50 Chrom Revision: 2.0 22-Oct-2012 16:30:48

MS Tune Report

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3190.D		
Injection Date:	20-Dec-2012 10:20:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96803	Lims Sample ID:	1
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm
Tune Method:	DFTPP Method 8270		

35 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	55.69
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Present	48.41
70	Less than 2.00% of mass 69	0.34 (0.70)
127	40.00 - 60.00% of mass 198	59.51
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.92
275	10.00 - 30.00% of mass 198	26.53
365	Greater than 1.00% of mass 198	3.81
441	Present, but less than mass 443%	13.86 (72.00)
442	Greater than 40.00% of mass 198	98.00
443	17.00 - 23.00% of mass 442	19.25 (19.64)

Data File: \\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3190.D\X-8270LL.rslt\spectra.d
Injection Date: 20-Dec-2012 10:20:30
Spectrum: Tune Spec: Scans 766-768(7.17-7.18) Bgrd 762(7.15)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 356

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1159	136.00	7822	228.00	10248	328.00	3326
37.00	3768	137.00	10962	229.00	17352	329.00	1089
38.00	7472	138.00	2741	230.00	1555	330.00	221
39.00	52144	139.00	1653	231.00	4613	332.00	2641
40.00	1035	140.00	4909	232.00	583	333.00	3625
41.00	551	141.00	46832	233.00	950	334.00	16448
45.00	1307	142.00	12300	234.00	4989	335.00	6135
49.00	4189	143.00	8812	235.00	4367	336.00	889
50.00	184448	144.00	1258	236.00	4641	339.00	557
51.00	626112	145.00	2524	237.00	5137	341.00	4838
52.00	32296	146.00	6323	238.00	771	342.00	211
53.00	1744	147.00	20824	239.00	3756	344.00	365
54.00	780	148.00	44248	240.00	2986	346.00	5999
55.00	4390	149.00	8781	241.00	4685	347.00	740
56.00	20328	150.00	3344	242.00	7785	349.00	216
57.00	39952	151.00	4496	243.00	9757	350.00	95
58.00	2562	152.00	1697	244.00	122344	352.00	9975
60.00	32	153.00	11571	245.00	18392	353.00	4067
61.00	8436	154.00	10530	246.00	32776	354.00	11432
62.00	7119	155.00	18536	247.00	5808	355.00	2617
63.00	26104	156.00	34176	248.00	938	356.00	724
64.00	3297	157.00	6071	249.00	4225	357.00	258
65.00	12125	158.00	8315	250.00	1451	358.00	439
67.00	330	159.00	5881	251.00	1260	359.00	425
69.00	544320	160.00	9923	252.00	1507	361.00	322
70.00	3790	161.00	15798	253.00	4537	362.00	635
71.00	636	162.00	5247	255.00	664128	364.00	692
72.00	397	163.00	1483	256.00	93808	365.00	42840
73.00	6056	164.00	3021	257.00	3973	366.00	5930
74.00	68864	165.00	17920	258.00	41672	367.00	712
75.00	94296	166.00	11484	259.00	7352	369.00	188
76.00	36992	167.00	71824	260.00	1614	370.00	752
77.00	602432	168.00	30680	261.00	1974	371.00	1381

Report Date: 20-Dec-2012 11:00:50 Chrom Revision: 2.0 22-Oct-2012 16:30:48
Data File: \\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3190.D\X-8270LL.rslt\spectra.d
Injection Date: 20-Dec-2012 10:20:30
Spectrum: Tune Spec: Scans 766-768(7.17-7.18) Bgrd 762(7.15)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 356

m/z	Y	m/z	Y	m/z	Y	m/z	Y
78.00	41416	169.00	6889	262.00	554	372.00	14382
79.00	50008	170.00	3017	263.00	438	373.00	5776
80.00	35432	171.00	2218	264.00	2818	376.00	276
81.00	55232	172.00	6534	265.00	17984	377.00	347
82.00	12660	173.00	7898	266.00	3272	382.00	279
83.00	6172	174.00	16416	267.00	777	383.00	4000
84.00	748	175.00	27320	269.00	546	384.00	2124
85.00	10811	176.00	5523	270.00	186	386.00	187
86.00	13486	177.00	14499	271.00	1563	389.00	216
87.00	6604	178.00	4643	272.00	3121	390.00	2177
88.00	3476	179.00	55120	273.00	23016	391.00	1218
89.00	1448	180.00	32832	274.00	55864	392.00	2321
90.00	516	181.00	15301	275.00	298304	393.00	329
91.00	13074	182.00	3336	276.00	37408	396.00	313
92.00	14712	183.00	1333	277.00	25688	398.00	190
93.00	88184	184.00	946	278.00	5733	401.00	287
94.00	6452	185.00	25216	279.00	582	402.00	7419
95.00	1591	186.00	206272	282.00	444	403.00	10889
96.00	4149	187.00	56504	283.00	3732	404.00	4182
98.00	69744	188.00	5658	284.00	1580	405.00	578
99.00	47328	189.00	13064	285.00	6017	409.00	212
100.00	3670	190.00	1168	286.00	890	410.00	374
101.00	24536	191.00	4168	287.00	311	413.00	1115
102.00	1400	192.00	14753	289.00	997	415.00	683
103.00	8739	193.00	17704	290.00	787	416.00	458
104.00	18224	194.00	4855	291.00	625	418.00	307
105.00	21848	195.00	923	292.00	1386	421.00	9296
106.00	857	196.00	37208	293.00	8671	422.00	5112
107.00	209600	198.00	1124352	294.00	1215	423.00	57480
108.00	30296	199.00	77824	295.00	518	424.00	12837
110.00	361408	200.00	8245	296.00	81776	425.00	2330
111.00	56968	201.00	2858	297.00	12180	426.00	230
112.00	6575	203.00	9771	298.00	2050	427.00	327
113.00	3653	204.00	46072	301.00	1032	428.00	556

Report Date: 20-Dec-2012 11:00:50 Chrom Revision: 2.0 22-Oct-2012 16:30:48
Data File: \\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3190.D\X-8270LL.rslt\spectra.d
Injection Date: 20-Dec-2012 10:20:30
Spectrum: Tune Spec: Scans 766-768(7.17-7.18) Bgrd 762(7.15)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 356

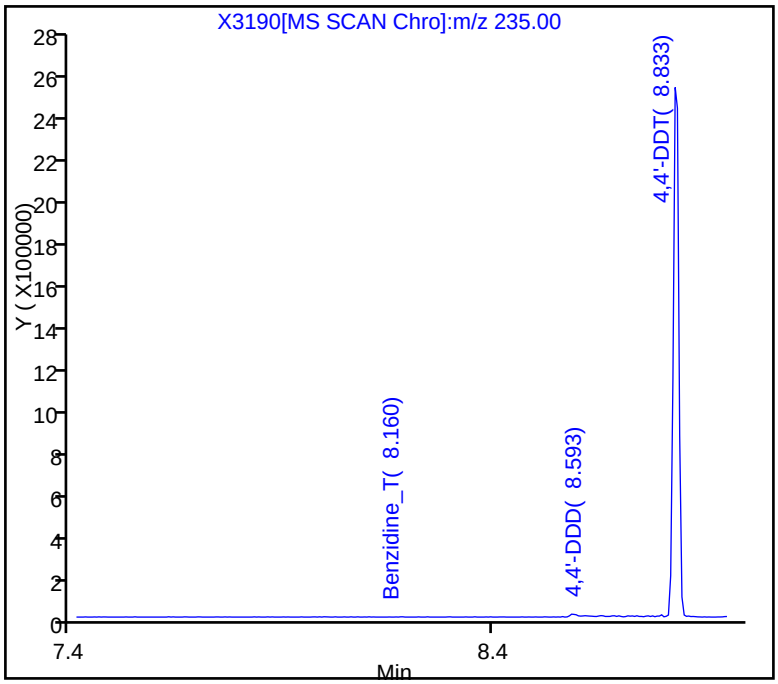
m/z	Y	m/z	Y	m/z	Y	m/z	Y
114.00	289	205.00	75272	302.00	1496	430.00	768
115.00	1896	206.00	310272	303.00	12910	431.00	709
116.00	14994	207.00	43008	304.00	3417	432.00	296
117.00	203904	208.00	12172	306.00	260	433.00	667
118.00	12157	209.00	4833	307.00	317	434.00	232
119.00	2632	210.00	5421	308.00	742	435.00	435
120.00	2402	211.00	11879	309.00	629	436.00	212
121.00	2079	212.00	1345	310.00	1411	437.00	433
122.00	17176	213.00	730	311.00	526	438.00	1163
123.00	23536	214.00	471	312.00	633	439.00	846
124.00	13499	215.00	4628	313.00	754	440.00	1159
125.00	7178	217.00	94720	314.00	5827	441.00	155840
126.00	806	218.00	9820	315.00	11092	442.00	1101824
127.00	669056	219.00	1641	316.00	6652	443.00	216448
128.00	56064	220.00	480	317.00	362	444.00	17992
129.00	302656	221.00	41408	320.00	300	445.00	816
130.00	25920	222.00	6903	321.00	3384	462.00	187
131.00	2994	223.00	19744	322.00	1863	473.00	256
132.00	1194	224.00	164032	323.00	31064	475.00	917
133.00	1970	225.00	40600	324.00	5810	478.00	232
134.00	9300	226.00	1276	326.00	505	488.00	227
135.00	21536	227.00	83952	327.00	4585	491.00	183

Breakdown Report

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3190.D		
Injection Date:	20-Dec-2012 10:20:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96803	Lims Sample ID:	1
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

53 4,4'-DDT, Detector: MS SCAN



SW-846 Method

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

53 4,4'-DDT, Area = 2333983
50 4,4'-DDD, Area = 17623
39 4,4'-DDE, Area = 0

%Breakdown: 0.75%, Max Limit: 20.00%
Passed

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3221.D		
Lims ID:	DFTPP	Client ID:	
Inject. Date:	21-Dec-2012 09:57:30	Dil. Factor:	1.0000
Sample Type:	DFTPP		
Sample ID:	480-0017772-001		
Misc. Info.:			
Operator:	ANM	Instrument ID:	HP5973X
Injection Vol:	1.0 ul	ALS Bottle#:	2
Lims Batch ID:	97046	Lims Sample ID:	1
Detector:	MS SCAN		
Method:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X-8270LL.m		
Last Update:	28-Feb-2013 08:54:56	Calib Date:	18-Dec-2012 14:44:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3139.D		
Limit Group:	MB - 8270RCP_MCP ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm
Process Host:	XAWRK028		

First Level Reviewer: mckernar Date: 21-Dec-2012 10:17:59

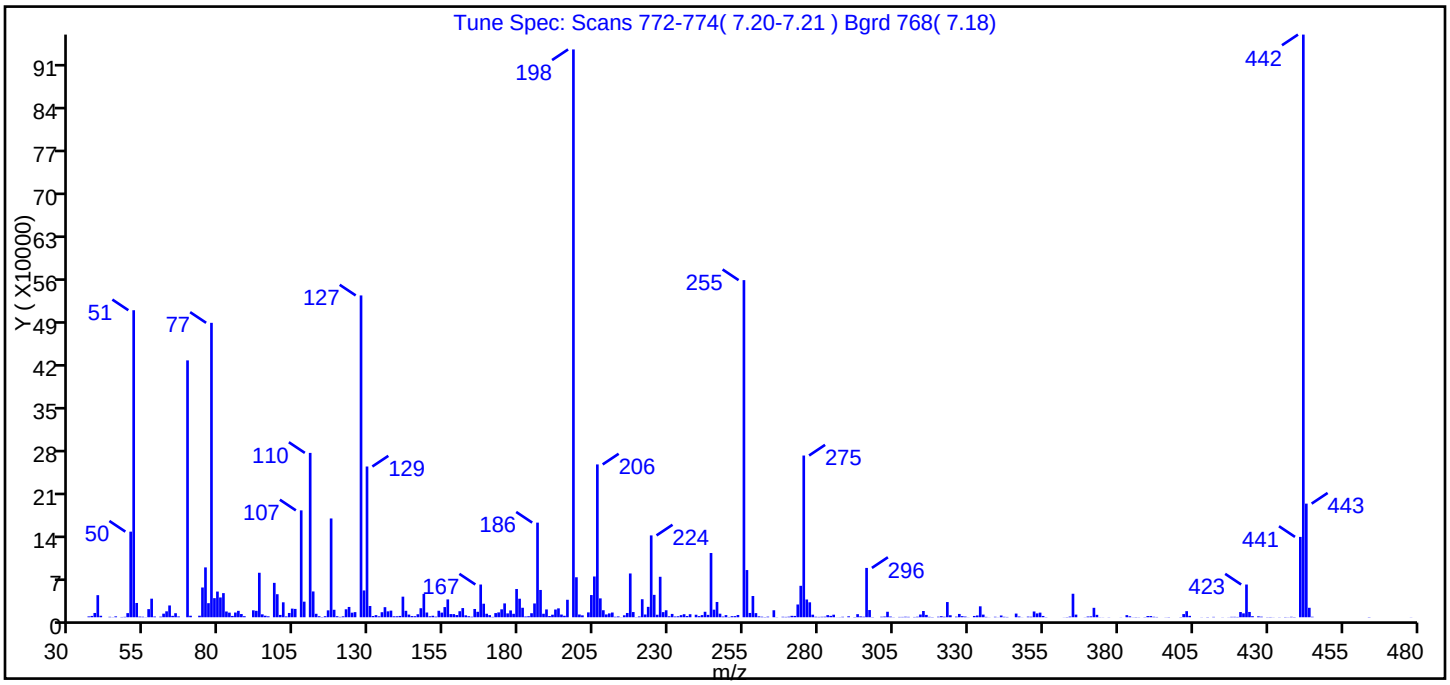
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
30 Pentachlorophenol_T	266	6.824	6.824	0.0	82	583423	0	
35 DFTPP								
39 4,4'-DDE	246		7.713					
46 Benzidine_T	184	8.192	8.192	0.0	97	4654602	0	
50 4,4'-DDD	235		8.588					
53 4,4'-DDT	235	8.854	8.854	0.0	90	1967665	0	

MS Tune Report

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3221.D		
Injection Date:	21-Dec-2012 09:57:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	1
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm
Tune Method:	DFTPP Method 8270		

35 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	54.07
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Present	45.24
70	Less than 2.00% of mass 69	0.27 (0.59)
127	40.00 - 60.00% of mass 198	56.67
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.04
275	10.00 - 30.00% of mass 198	28.48
365	Greater than 1.00% of mass 198	4.14
441	Present, but less than mass 443%	14.15 (70.72)
442	Greater than 40.00% of mass 198	102.61
443	17.00 - 23.00% of mass 442	20.01 (19.50)

Data File: \\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3221.D\X-8270LL.rslt\spectra.d
Injection Date: 21-Dec-2012 09:57:30
Spectrum: Tune Spec: Scans 772-774(7.20-7.21) Bgrd 768(7.18)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 348

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1386	137.00	10813	226.00	4107	324.00	3274
37.00	2190	138.00	1541	227.00	66016	326.00	987
38.00	6987	139.00	1630	228.00	8374	327.00	5408
39.00	36032	140.00	2154	229.00	11393	328.00	1790
40.00	2428	141.00	33592	230.00	1581	329.00	1134
43.00	741	142.00	10512	231.00	5432	330.00	195
44.00	244	143.00	4355	232.00	1224	332.00	2119
45.00	1455	144.00	1940	233.00	1599	333.00	2905
47.00	479	145.00	1720	234.00	3438	334.00	17856
48.00	673	146.00	4909	235.00	4954	335.00	4329
49.00	6758	147.00	14747	236.00	1987	336.00	636
50.00	139648	148.00	38104	237.00	4950	337.00	178
51.00	500800	149.00	7740	239.00	4116	339.00	794
52.00	23304	150.00	1594	240.00	1859	340.00	174
53.00	1092	151.00	2443	241.00	3470	341.00	2874
54.00	884	152.00	995	242.00	8946	342.00	753
55.00	235	153.00	10603	243.00	3900	343.00	520
56.00	13242	154.00	7580	244.00	104792	346.00	6022
57.00	30304	155.00	16584	245.00	12388	347.00	1221
58.00	1183	156.00	29128	246.00	24928	348.00	176
60.00	994	157.00	5186	247.00	5810	350.00	1055
61.00	5849	158.00	5123	248.00	1117	351.00	853
62.00	9691	159.00	3613	249.00	3500	352.00	9433
63.00	19256	160.00	9849	250.00	530	353.00	6277
64.00	2284	161.00	14982	251.00	1729	354.00	7549
65.00	6587	162.00	3115	252.00	1841	355.00	2129
66.00	1309	163.00	1690	253.00	3716	356.00	329
69.00	419008	164.00	885	255.00	549888	362.00	170
70.00	2486	165.00	13497	256.00	76984	363.00	394
73.00	2510	166.00	8911	257.00	7001	364.00	1128
74.00	48552	167.00	53400	258.00	34648	365.00	38344
75.00	81328	168.00	22088	259.00	6756	366.00	4312
76.00	22976	169.00	5724	260.00	1519	369.00	225

Report Date: 28-Feb-2013 08:54:57 Chrom Revision: 2.0 01-Feb-2013 10:03:10
Data File: \\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3221.D\X-8270LL.rslt\spectra.d
Injection Date: 21-Dec-2012 09:57:30
Spectrum: Tune Spec: Scans 772-774(7.20-7.21) Bgrd 768(7.18)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 348

m/z	Y	m/z	Y	m/z	Y	m/z	Y
77.00	480256	170.00	3455	261.00	909	370.00	1189
78.00	31152	171.00	605	262.00	391	371.00	1428
79.00	41912	172.00	6810	263.00	987	372.00	15406
80.00	32280	173.00	7935	265.00	11413	373.00	3940
81.00	39376	174.00	12948	266.00	262	374.00	212
82.00	9405	175.00	22592	268.00	790	375.00	169
83.00	7532	176.00	6319	269.00	605	377.00	252
84.00	2174	177.00	11145	270.00	937	381.00	191
85.00	7693	178.00	5668	271.00	2317	383.00	3442
86.00	10474	179.00	46104	272.00	2166	384.00	1544
87.00	5253	180.00	30232	273.00	20832	385.00	195
88.00	1752	181.00	15482	274.00	51288	386.00	386
91.00	11328	182.00	1216	275.00	263808	387.00	251
92.00	10506	183.00	1675	276.00	28968	389.00	353
93.00	72576	184.00	6600	277.00	24384	390.00	1988
94.00	4761	185.00	22496	278.00	4199	391.00	1986
95.00	2488	186.00	154368	279.00	846	392.00	794
96.00	1537	187.00	44520	280.00	607	393.00	490
98.00	56112	188.00	5729	281.00	809	396.00	195
99.00	37584	189.00	12779	282.00	935	397.00	382
100.00	3797	190.00	1989	283.00	3481	401.00	378
101.00	24392	191.00	4155	284.00	2274	402.00	5196
102.00	1332	192.00	12631	285.00	4164	403.00	9937
103.00	6980	193.00	14515	286.00	165	404.00	2294
104.00	14090	194.00	4388	287.00	259	408.00	214
105.00	13615	195.00	2403	288.00	780	410.00	387
107.00	174336	196.00	28536	290.00	1549	412.00	642
108.00	25432	198.00	926208	292.00	410	415.00	222
110.00	268096	199.00	65232	293.00	5043	417.00	204
111.00	42096	200.00	4486	294.00	1364	418.00	679
112.00	5661	201.00	3097	295.00	881	419.00	702
113.00	1690	203.00	7932	296.00	80464	420.00	520
114.00	422	204.00	36216	297.00	11777	421.00	8502
115.00	1698	205.00	66504	298.00	401	422.00	6351

Report Date: 28-Feb-2013 08:54:57 Chrom Revision: 2.0 01-Feb-2013 10:03:10
Data File: \\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3221.D\X-8270LL.rslt\spectra.d
Injection Date: 21-Dec-2012 09:57:30
Spectrum: Tune Spec: Scans 772-774(7.20-7.21) Bgrd 768(7.18)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 348

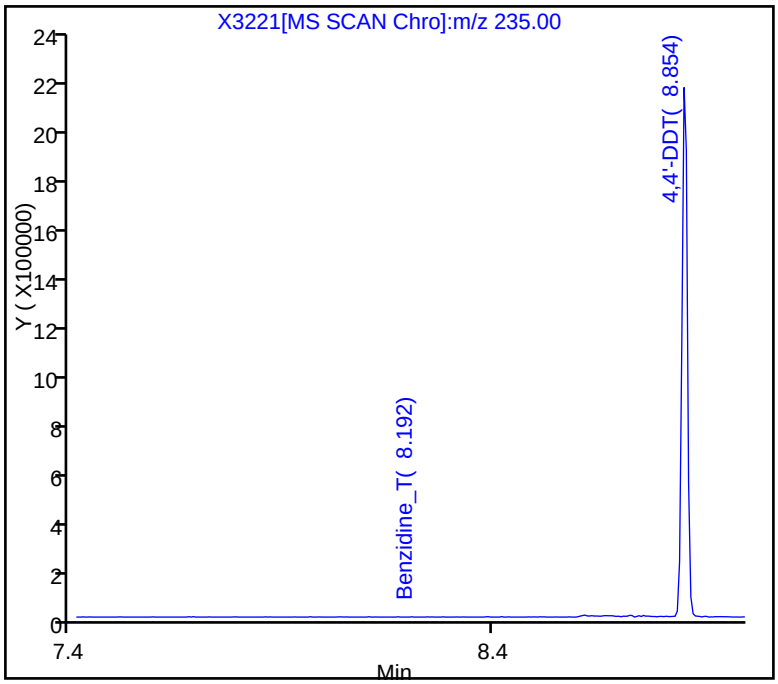
m/z	Y	m/z	Y	m/z	Y	m/z	Y
116.00	11264	206.00	249280	301.00	895	423.00	53408
117.00	161152	207.00	30792	302.00	1176	424.00	8626
118.00	12211	208.00	11439	303.00	8975	425.00	1752
119.00	1703	209.00	4585	304.00	1112	427.00	1460
120.00	628	210.00	6291	305.00	256	428.00	941
121.00	1505	211.00	7724	307.00	562	430.00	323
122.00	13004	212.00	830	308.00	576	431.00	437
123.00	16808	213.00	1358	309.00	872	432.00	189
124.00	7467	214.00	216	310.00	679	434.00	254
125.00	8370	215.00	3189	312.00	499	436.00	430
127.00	524928	216.00	6975	313.00	850	437.00	238
128.00	43736	217.00	71432	314.00	4448	438.00	734
129.00	245888	218.00	8497	315.00	10191	439.00	423
130.00	18368	219.00	257	316.00	3826	441.00	131072
131.00	2050	220.00	1332	317.00	691	442.00	950400
132.00	3447	221.00	29416	318.00	409	443.00	185344
133.00	1515	222.00	4492	320.00	896	444.00	15445
134.00	8218	223.00	16968	321.00	1728	445.00	831
135.00	16432	224.00	133504	322.00	851	464.00	418
136.00	9652	225.00	36536	323.00	24792	478.00	192

Breakdown Report

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121221-17772.b\X3221.D		
Injection Date:	21-Dec-2012 09:57:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	97046	Lims Sample ID:	1
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

53 4,4'-DDT, Detector: MS SCAN



SW-846 Method

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

53 4,4'-DDT, Area = 1967665
50 4,4'-DDD, Area = 0
39 4,4'-DDE, Area = 0

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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-30406-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 480-96561/1-A
Matrix: Solid
Lab File ID: X3202.D
Analysis Method: 8270D
Date Collected:
Extract. Method: 3546
Date Extracted: 12/19/2012 09:30
Sample wt/vol: 000030.4(g)
Date Analyzed: 12/20/2012 15:17
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 96803
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	ND		33	9.9
95-50-1	1,2-Dichlorobenzene	ND		33	9.9
541-73-1	1,3-Dichlorobenzene	ND		33	9.9
100-52-7	Benzaldehyde	ND		33	9.9
106-46-7	1,4-Dichlorobenzene	ND		33	9.9
108-60-1	2,2'-oxybis[1-chloropropane]	ND		33	9.9
95-95-4	2,4,5-Trichlorophenol	ND		33	11
88-06-2	2,4,6-Trichlorophenol	ND		33	14
100-51-6	Benzyl alcohol	ND		66	9.9
120-83-2	2,4-Dichlorophenol	ND		33	9.9
105-67-9	2,4-Dimethylphenol	ND		33	9.9
51-28-5	2,4-Dinitrophenol	ND		33	27
121-14-2	2,4-Dinitrotoluene	ND		33	9.9
100-01-6	4-Nitroaniline	ND		160	28
606-20-2	2,6-Dinitrotoluene	ND		33	28
91-58-7	2-Chloronaphthalene	ND		33	9.9
95-57-8	2-Chlorophenol	ND		33	9.9
86-30-6	N-Nitrosodiphenylamine	ND		33	9.9
91-57-6	2-Methylnaphthalene	ND		33	9.9
95-48-7	2-Methylphenol	ND		33	9.9
88-75-5	2-Nitrophenol	ND		33	13
15831-10-4	3 & 4 Methylphenol	ND		33	9.9
91-94-1	3,3'-Dichlorobenzidine	ND		66	12
88-74-4	2-Nitroaniline	ND		160	41
77-47-4	Hexachlorocyclopentadiene	ND		66	9.9
106-47-8	4-Chloroaniline	ND		66	30
100-02-7	4-Nitrophenol	ND		160	14
83-32-9	Acenaphthene	ND		33	9.9
534-52-1	4,6-Dinitro-2-methylphenol	ND		160	32
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		33	9.9
208-96-8	Acenaphthylene	ND		33	9.9
98-86-2	Acetophenone	ND		33	9.9
62-53-3	Aniline	ND		33	9.9
120-12-7	Anthracene	ND		33	9.9

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-30406-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 480-96561/1-A
Matrix: Solid
Lab File ID: X3202.D
Analysis Method: 8270D
Date Collected:
Extract. Method: 3546
Date Extracted: 12/19/2012 09:30
Sample wt/vol: 000030.4(g)
Date Analyzed: 12/20/2012 15:17
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 96803
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1912-24-9	Atrazine	ND		33	9.9
103-33-3	Azobenzene	ND		33	9.9
56-55-3	Benzo[a]anthracene	ND		33	9.9
50-32-8	Benzo[a]pyrene	ND		33	9.9
205-99-2	Benzo[b]fluoranthene	ND		33	9.9
191-24-2	Benzo[g,h,i]perylene	ND		33	9.9
105-60-2	Caprolactam	ND		33	9.9
99-09-2	3-Nitroaniline	ND		160	9.9
207-08-9	Benzo[k]fluoranthene	ND		33	17
111-91-1	Bis(2-chloroethoxy)methane	ND		33	9.9
92-52-4	1,1'-Biphenyl	ND		33	9.9
111-44-4	Bis(2-chloroethyl)ether	ND		33	9.9
117-81-7	Bis(2-ethylhexyl) phthalate	ND		160	66
85-68-7	Butyl benzyl phthalate	ND		33	9.9
218-01-9	Chrysene	ND		33	9.9
621-64-7	N-Nitrosodi-n-propylamine	ND		33	9.9
65-85-0	Benzoic acid	ND		160	15
53-70-3	Dibenz(a,h)anthracene	ND		33	9.9
132-64-9	Dibenzofuran	ND		33	9.9
84-66-2	Diethyl phthalate	ND		33	11
131-11-3	Dimethyl phthalate	ND		33	9.9
84-74-2	Di-n-butyl phthalate	ND		160	49
117-84-0	Di-n-octyl phthalate	ND		33	9.9
101-84-8	Phenyl ether	ND		33	9.9
58-90-2	2,3,4,6-Tetrachlorophenol	ND		33	9.9
206-44-0	Fluoranthene	ND		33	9.9
59-50-7	4-Chloro-3-methylphenol	ND		66	9.9
86-73-7	Fluorene	ND		33	9.9
7005-72-3	4-Chlorophenyl phenyl ether	ND		33	9.9
118-74-1	Hexachlorobenzene	ND		33	9.9
87-68-3	Hexachlorobutadiene	ND		33	9.9
67-72-1	Hexachloroethane	ND		33	9.9
193-39-5	Indeno[1,2,3-cd]pyrene	ND		33	9.9
78-59-1	Isophorone	ND		33	9.9

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-30406-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 480-96561/1-A
Matrix: Solid
Lab File ID: X3202.D
Analysis Method: 8270D
Date Collected:
Extract. Method: 3546
Date Extracted: 12/19/2012 09:30
Sample wt/vol: 000030.4(g)
Date Analyzed: 12/20/2012 15:17
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 96803
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-20-3	Naphthalene	ND		33	9.9
98-95-3	Nitrobenzene	ND		33	9.9
87-86-5	Pentachlorophenol	ND		33	9.9
85-01-8	Phenanthrene	ND		33	9.9
119-61-9	Benzophenone	ND		33	9.9
108-95-2	Phenol	ND		33	9.9
129-00-0	Pyrene	ND		33	9.9
62-75-9	N-Nitrosodimethylamine	ND		33	9.9
86-74-8	Carbazole	ND		33	9.9
90-12-0	1-Methylnaphthalene	ND		33	9.9
106-44-5	4-Methylphenol	ND		33	9.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	90		30-130
367-12-4	2-Fluorophenol	81		30-130
4165-60-0	Nitrobenzene-d5	103		30-130
4165-62-2	Phenol-d5	77		30-130
321-60-8	2-Fluorobiphenyl	96		30-130
1718-51-0	p-Terphenyl-d14	92		30-130

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo
Job No.: 480-30406-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 480-96561/1-A
Matrix: Solid
Lab File ID: X3202.D
Analysis Method: 8270D
Date Collected:
Extract. Method: 3546
Date Extracted: 12/19/2012 09:30
Sample wt/vol: 000030.4(g)
Date Analyzed: 12/20/2012 15:17
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 96803
Units: ug/Kg
Number TICs Found: 10
TIC Result Total: 6079.1

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown	3.85	77.6	T J
	Unknown	4.22	5300	T J
	Unknown	6.97	47.0	T J
54833-48-6	Heptadecane, 2,6,10,15-tetramethyl-	9.18	48.7	T J N
	Unknown	10.98	52.3	T J
31295-56-4	Dodecane, 2,6,11-trimethyl-	12.46	39.9	T J N
	Unknown	14.54	65.7	T J
111-6-8	Hexadecanoic acid, butyl ester	14.61	68.2	T J N
123-95-5	Octadecanoic acid, butyl ester	15.26	82.7	T J N
7683-64-9	Squalene	16.46	297	T J N

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3202.D
Lims ID: MB 480-96561/1-A Client ID:
Inject. Date: 20-Dec-2012 15:17:30 Dil. Factor: 1.0000
Sample Type: MB
Sample ID: 480-0017736-012
Misc. Info.:
Operator: ANM Instrument ID: HP5973X
Injection Vol: 1.0 ul ALS Bottle#: 14
Lims Batch ID: 96803 Lims Sample ID: 12
Detector: MS SCAN

Method: \\Bufchrom\ChromData\HP5973X\20121220-17736.b\X-8270LL.m
Last Update: 09-Mar-2013 09:29:35 Calib Date: 18-Dec-2012 14:44:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3139.D
Limit Group: MB - 8270RCP_MCP ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: RXI-5Sil MS Column Dia: 0.25 mm
Process Host: XAWRK034

First Level Reviewer: mckernar Date: 20-Dec-2012 16:03:48

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.556	6.570	-0.014	81	175457	5.00	
* 2 Naphthalene-d8	136	8.448	8.439	0.009	96	633704	5.00	
* 3 Acenaphthene-d10	164	11.097	11.064	0.033	90	352883	5.00	
* 4 Phenanthrene-d10	188	13.114	13.080	0.034	95	503443	5.00	M
* 5 Chrysene-d12	240	15.753	15.734	0.019	97	437519	5.00	
* 6 Perylene-d12	264	17.037	17.013	0.024	97	487766	5.00	
$ 7 2-Fluorophenol	112	4.687	4.682	0.005	1	64800	1.63	
$ 8 Phenol-d5	99	6.109	6.090	0.019	86	74732	1.54	M
$ 9 Nitrobenzene-d5	82	7.402	7.393	0.009	75	97817	2.06	M
$ 10 2-Fluorobiphenyl	172	10.113	10.075	0.038	87	170367	1.92	
$ 11 2,4,6-Tribromophenol	330	12.291	12.229	0.062	0	16738	1.81	M
$ 12 p-Terphenyl-d14	244	14.778	14.759	0.019	92	154395	1.83	
15 4-Chloro-3-nitro-alpha,alpha,alp	1		0.000					
13 4-tert-Octylphenol	1		0.000					
14 Alpha-Terpineol	59		0.000					
17 1,2,3-Trimethylbenzene	1		0.000					
18 1,4-Dioxane	88		2.433					
19 N-Nitrosodimethylamine	42		2.766					
20 Pyridine	52		2.837					
21 Benzaldehyde	77		5.938					
23 Aniline	93		6.104					
22 Phenol	94		6.109					9
24 Bis(2-chloroethyl)ether	93		6.204					1
25 2-Chlorophenol	128		6.270					19
26 1,3-Dichlorobenzene	146		6.484					9
27 1,4-Dichlorobenzene	146		6.594					9
30 Pentachlorophenol_T	266		6.782					
29 1,2-Dichlorobenzene	146		6.813					9
28 Benzyl alcohol	108		6.813					
31 2-Methylphenol	108		6.993					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
32 2,2'-oxybis[1-chloropropane]	45		6.998					
33 Acetophenone	105		7.174					
34 N-Nitrosodi-n-propylamine	70		7.183					
36 4-Methylphenol	108		7.231					
37 Hexachloroethane	117		7.298					19
38 Nitrobenzene	77		7.421					
39 4,4'-DDE	246		7.713					
40 Isophorone	82		7.778					
41 2-Nitrophenol	139		7.892					
43 2,4-Dimethylphenol	107		8.001					9
42 o,o',o''-Triethylphosphorothioat	198		8.055					
45 Bis(2-chloroethoxy)methane	93		8.125					
46 Benzidine_T	184		8.160					
44 Benzoic acid	105		8.177					14
47 2,4-Dichlorophenol	162		8.277					9
48 1,2,4-Trichlorobenzene	180		8.363					
49 Naphthalene	128		8.472					9
50 4,4'-DDD	235		8.588					
51 4-Chloroaniline	127		8.596					14
52 Hexachlorobutadiene	225		8.662					
53 4,4'-DDT	235		8.833					
54 Caprolactam	113		9.129					
55 4-Chloro-3-methylphenol	107		9.385					19
56 2-Methylnaphthalene	142		9.509					9
57 1-Methylnaphthalene	142		9.656					
58 Hexachlorocyclopentadiene	237		9.742					
59 1,2,4,5-Tetrachlorobenzene	216		9.761					19
60 2,4,6-Trichlorophenol	196		9.970					
61 2,4,5-Trichlorophenol	196		10.056					19
62 1,1'-Biphenyl	154		10.218					
63 2-Chloronaphthalene	162		10.265					9
64 Phenyl ether	170		10.384					
65 2-Nitroaniline	65		10.436					149
66 1,4-Dinitrobenzene	75		10.665					149
67 Dimethyl phthalate	163		10.722					9
68 2,6-Dinitrotoluene	165		10.807					19
69 Acenaphthylene	152		10.850					9
70 3-Nitroaniline	138		11.069					39
71 Acenaphthene	153		11.112					9
72 2,4-Dinitrophenol	184		11.240					
73 Dibenzofuran	168		11.378					
74 2,4-Dinitrotoluene	165		11.416					19
75 4-Nitrophenol	109		11.454					1
76 2,3,4,6-Tetrachlorophenol	232		11.597					
78 Diethyl phthalate	149		11.777					9
77 Thionazin	97		11.826					
79 Fluorene	166		11.882					9
80 4-Chlorophenyl phenyl ether	204		11.901					
81 4-Nitroaniline	138		11.982					19
82 4,6-Dinitro-2-methylphenol	198		12.010					
84 Diphenylamine	169		12.077					
83 N-Nitrosodiphenylamine	169		12.077					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
16 1,2-Diphenylhydrazine	77		12.120					
85 Azobenzene	77		12.120					
86 Benzophenone	105		12.144					
87 Sulfotepp	322		12.297					9
88 Phorate	75		12.454					
89 4-Bromophenyl phenyl ether	248		12.548					
91 Hexachlorobenzene	284		12.610					
90 Dimethoate	87		12.668					9
92 Simazine	201		12.762					
93 Atrazine	200		12.800					9
95 Pentachloronitrobenzene	237		12.881					19
94 Pentachlorophenol	266		12.885					
97 Phenanthrene	178		13.109					9
96 Disulfoton	88		13.120					
98 Anthracene	178		13.171					
99 Carbazole	167		13.380					24
101 Alachlor	160		13.527					9
100 Methyl parathion	109		13.543					
102 Di-n-butyl phthalate	149		13.765					
103 Ethyl Parathion	97		14.003					9
104 Fluoranthene	202		14.388					
105 Benzidine	184		14.555					
106 Pyrene	202		14.607					9
107 Famphur	218		15.168					
108 Butyl benzyl phthalate	149		15.211					
109 3,3'-Dichlorobenzidine	252		15.705					
110 Bis(2-ethylhexyl) phthalate	149		15.710					
111 Benzo[a]anthracene	228		15.720					
112 Chrysene	228		15.753					
113 Di-n-octyl phthalate	149		16.248					9
114 Benzo[b]fluoranthene	252		16.657					
115 Benzo[k]fluoranthene	252		16.680					
116 Benzo[a]pyrene	252		16.961					9
118 Dibenz(a,h)anthracene	278		18.107					
117 Indeno[1,2,3-cd]pyrene	276		18.107					
119 Benzo[g,h,i]perylene	276		18.421					9
S 121 3-Methylphenol	1		0.000					
S 120 3 & 4 Methylphenol	108		0.000					

QC Flag Legend

Processing Flags
1 - Missing Peaks
2 - Failed Coelution Test
3 - Failed RT Window Test
4 - Failed Signal Ratio Test
9 - Failed A Reference Spectral Test

Review Flags
M - Manually Integrated

TestAmerica Buffalo
Tentatively Identified Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3202.D		
Lims ID:	MB 480-96561/1-A	Client ID:	
Inject. Date:	20-Dec-2012 15:17:30	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	480-0017736-012		
Misc. Info.:			
Operator:	ANM	Instrument ID:	HP5973X
Injection Vol:	1.0 ul	ALS Bottle#:	14
Lims Batch ID:	96803	Lims Sample ID:	12
Detector:	MS SCAN		
Method:	\\Bufchrom\ChromData\HP5973X\20121220-17736.b\X-8270LL.m		
Last Update:	09-Mar-2013 09:29:35	Calib Date:	18-Dec-2012 14:44:30
Tic RT Window:	1.500 -0.000	Response:	area
Quant By:	Nearest ISTD	Quant LOD:	10.00000
MS Library:	\\Bufchrom\ChromData\Database\NIST98.L		
Min. Match:	85		
Process Host:	XAWRK034		
First Level Reviewer: mckernar		Date:	20-Dec-2012 16:03:48

Tentative Identified Compound Results

RT	Response	Amount ng/uL	Quant Cpnd	Qual	Lib Entry	Flags
		Unknown				
3.845	589218	2.36	1			
		Unknown				
4.216	40216940	161.0	1			
		Unknown				
6.974	356863	1.43	1			
54833-48-6		Heptadecane, 2,6,10,15-tetramethyl-				
9.181	413732	1.48	2	87	17067	
		Unknown				
10.978	456024	1.59	3			
31295-56-4		Dodecane, 2,6,11-trimethyl-				
12.457	335157	1.21	4	87	109635	
		Unknown				
14.540	463318	2.00	5			
111-6-8		Hexadecanoic acid, butyl ester				
14.612	480906	2.07	5	93	15257	
123-95-5		Octadecanoic acid, butyl ester				
15.258	583816	2.52	5	93	111935	
7683-64-9		Squalene				
16.462	2192497	9.02	6	96	114263	

Quantitation Compounds

Compound	RT	Response	Amount ng/uL

Report Date: 09-Mar-2013 09:29:36 Chrom Revision: 2.0 01-Feb-2013 10:03:10
Data File: \\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3202.D

Compound	RT	Response	Amount ng/uL
* 1 1,4-Dichlorobenzene-d4	6.556	1248598	5.00
* 2 Naphthalene-d8	8.448	1397905	5.00
* 3 Acenaphthene-d10	11.097	1434400	5.00
* 4 Phenanthrene-d10	13.114	1382920	5.00
* 5 Chrysene-d12	15.753	1160456	5.00
* 6 Perylene-d12	17.032	1214849	5.00

QC Flag Legend

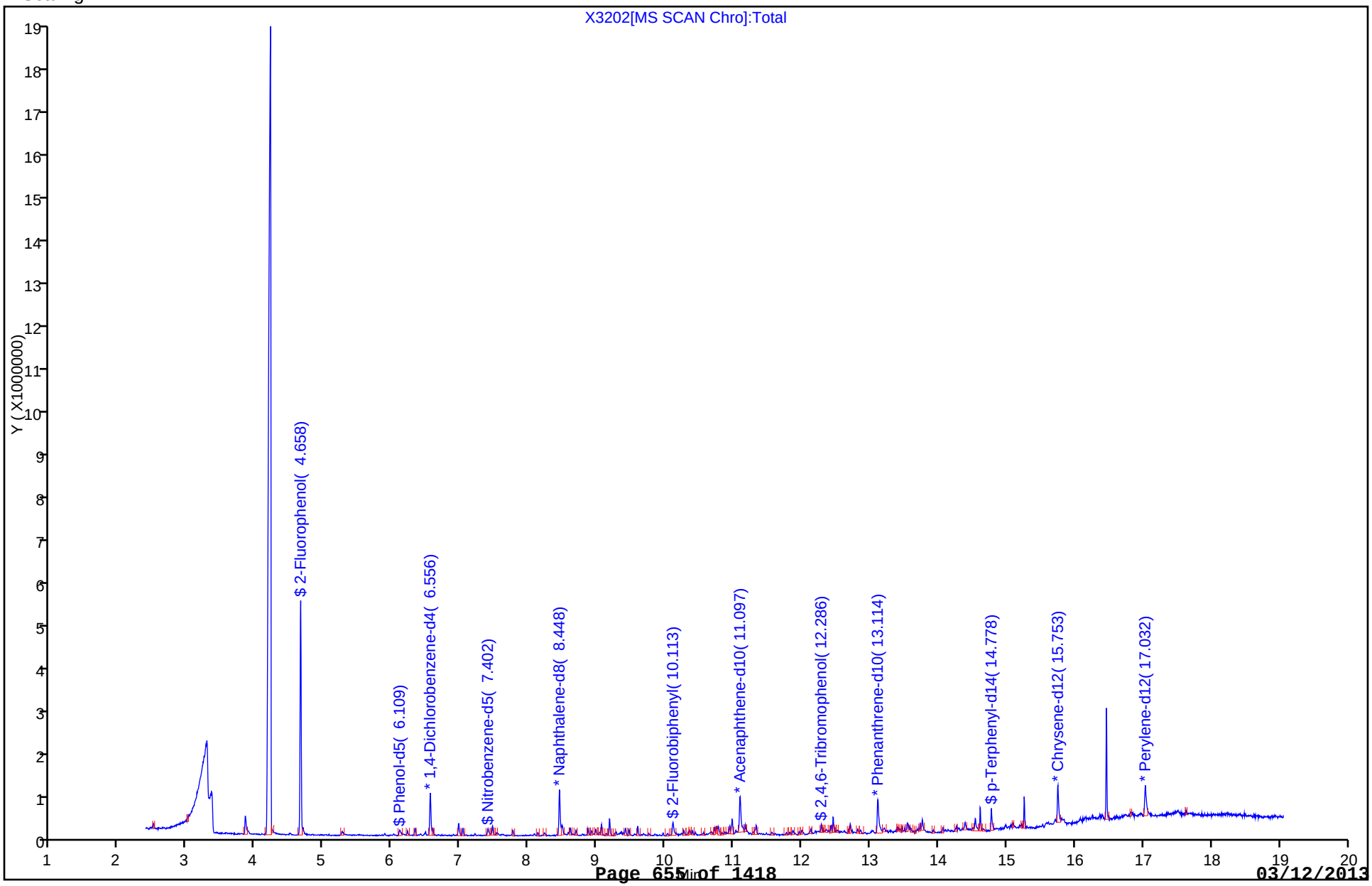
Processing Flags

Report Date: 09-Mar-2013 09:29:36 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3202.D		
Injection Date:	20-Dec-2012 15:17:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96803	Lims Sample ID:	12
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Y Scaling:



Report Date: 09-Mar-2013 09:29:36 Chrom Revision: 2.0 01-Feb-2013 10:03:10

Manual Integration/User Assign Peak Report

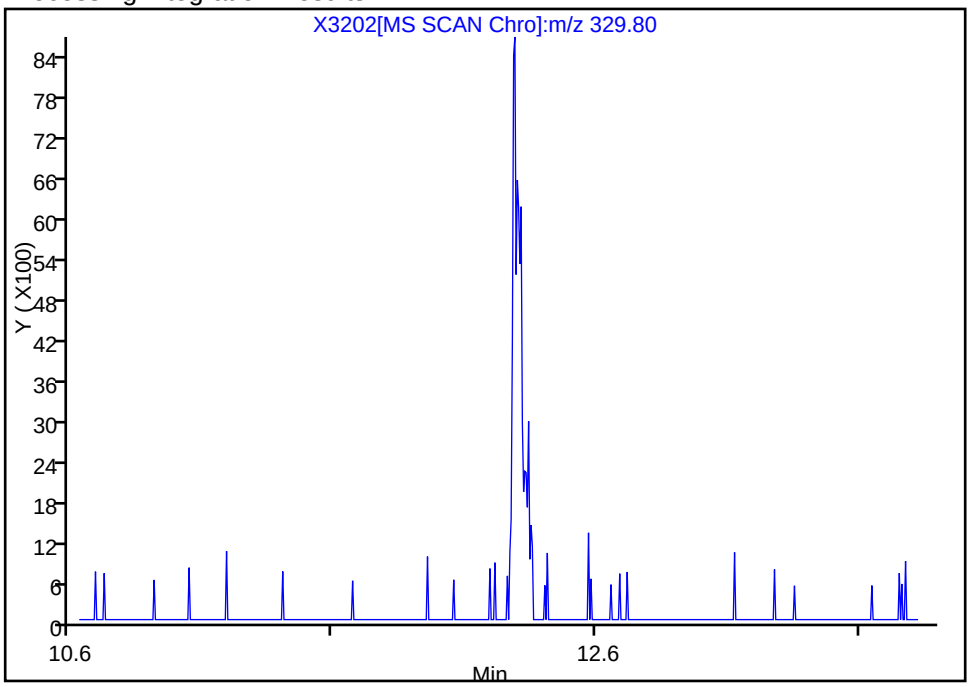
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3202.D		
Injection Date:	20-Dec-2012 15:17:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96803	Lims Sample ID:	12
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

$ 11 2,4,6-Tribromophenol, Signal: 1, m/z: 329.8 Type: quant, RT: 12.23

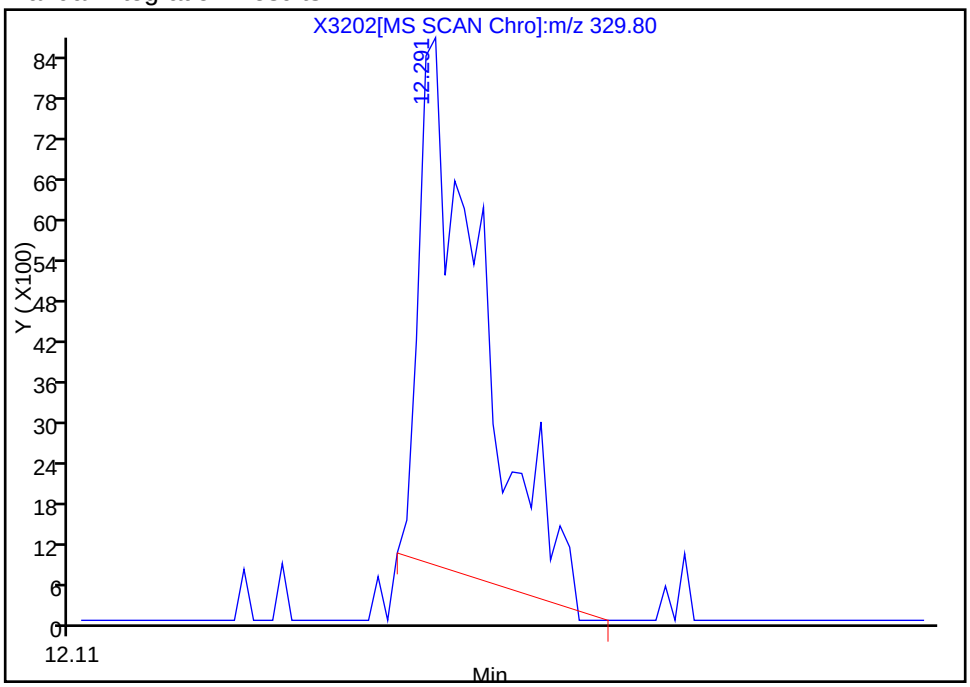
Processing Integration Results

Not Detected
Expected RT: 12.23



Manual Integration Results

RT: 12.29
Response: 16738
Amount: 1.807292



Reviewer: mckernar, 20-Dec-2012 16:03:48
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

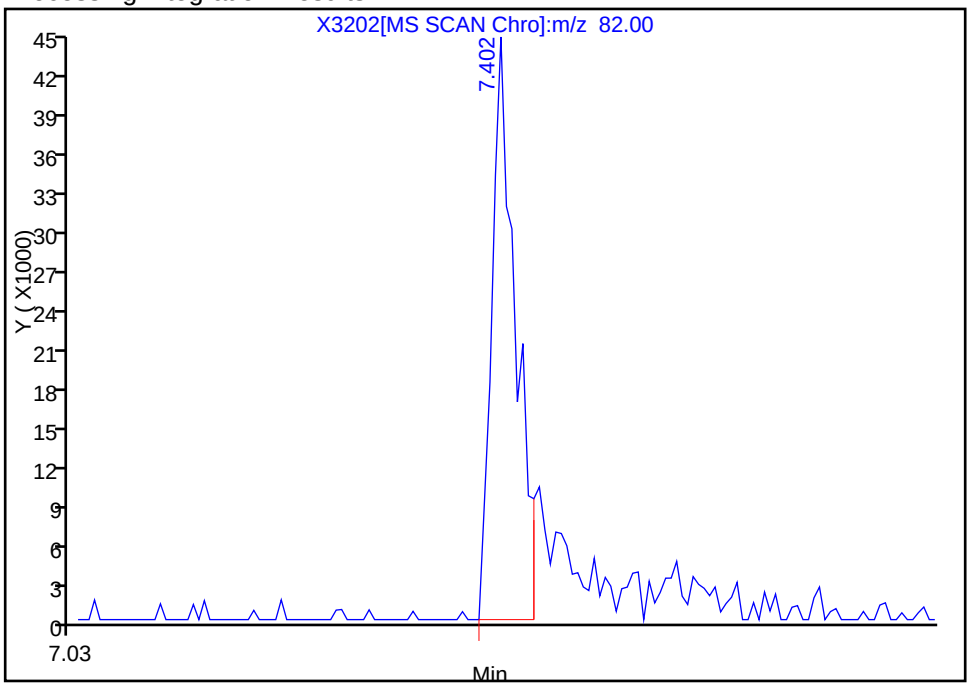
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3202.D		
Injection Date:	20-Dec-2012 15:17:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96803	Lims Sample ID:	12
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

$ 9 Nitrobenzene-d5, Signal: 1, m/z: 82.0 Type: quant, RT: 7.39

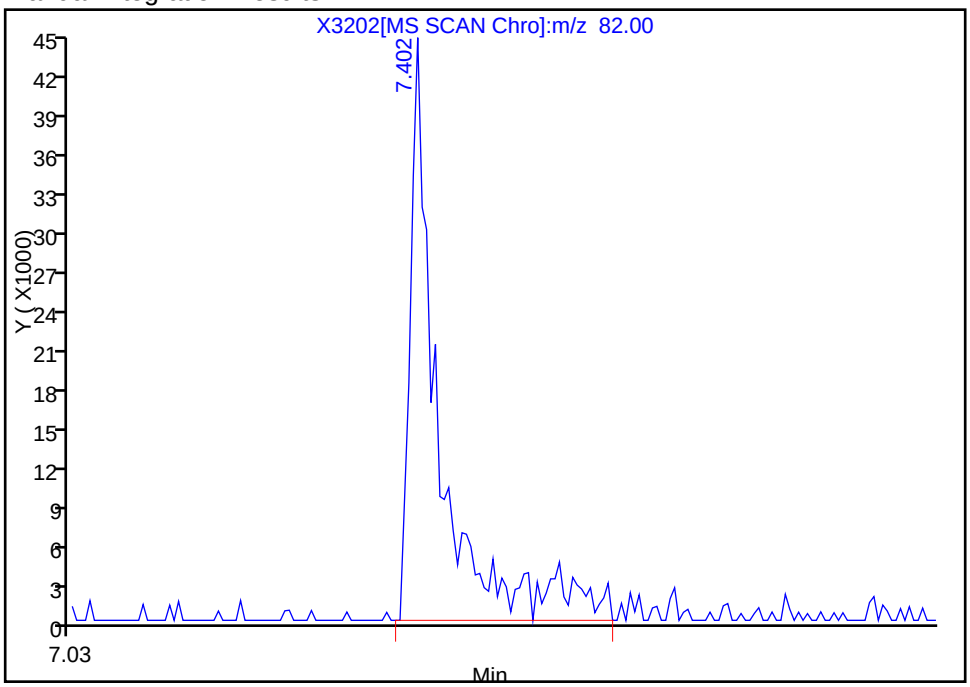
Processing Integration Results

RT: 7.40
Response: 64396
Amount: 1.266023



Manual Integration Results

RT: 7.40
Response: 97817
Amount: 2.058777



Reviewer: mckernar, 20-Dec-2012 16:03:48
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

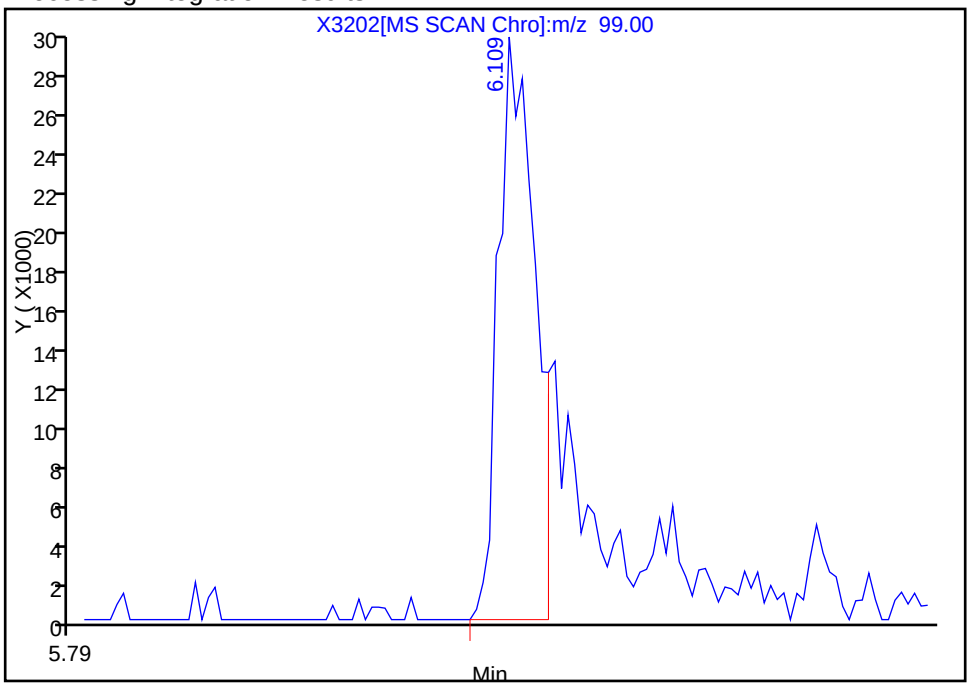
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3202.D		
Injection Date:	20-Dec-2012 15:17:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96803	Lims Sample ID:	12
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

$ 8 Phenol-d5, Signal: 1, m/z: 99.0 Type: quant, RT: 6.09

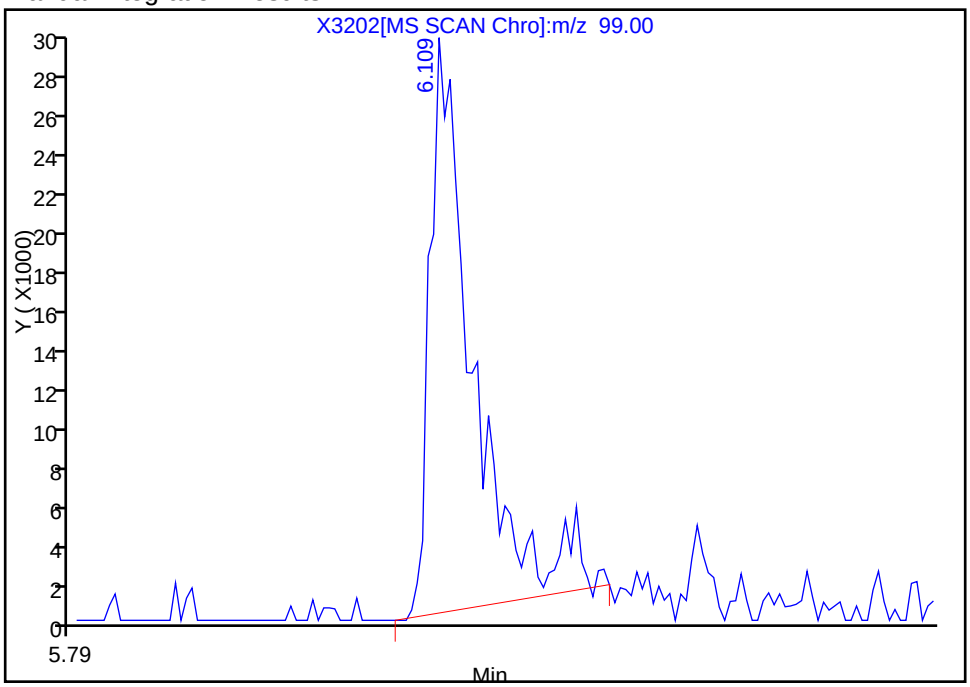
Processing Integration Results

RT: 6.11
Response: 54466
Amount: 1.008922



Manual Integration Results

RT: 6.11
Response: 74732
Amount: 1.542132



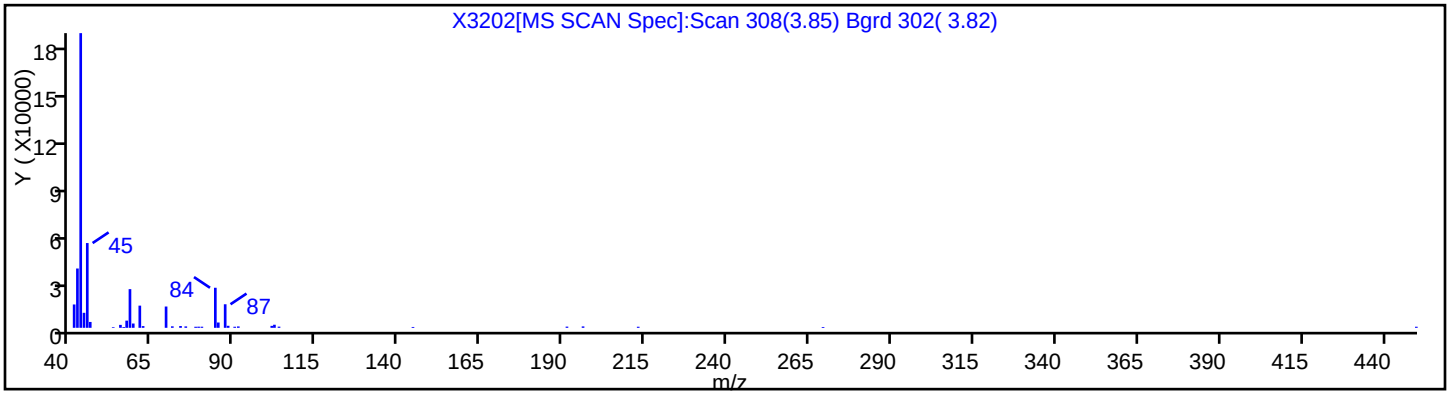
Reviewer: mckernar, 20-Dec-2012 16:03:48
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 09-Mar-2013 09:29:36 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3202.D		
Injection Date:	20-Dec-2012 15:17:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96803	Lims Sample ID:	12
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

No Library Matches Found above the Threshold: 85

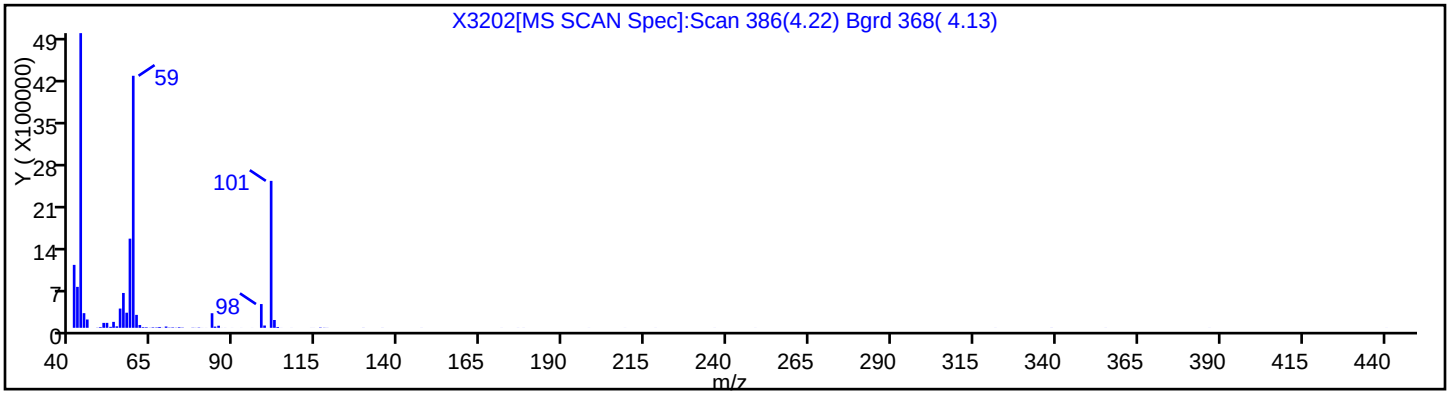


Report Date: 09-Mar-2013 09:29:36 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3202.D		
Injection Date:	20-Dec-2012 15:17:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96803	Lims Sample ID:	12
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

No Library Matches Found above the Threshold: 85

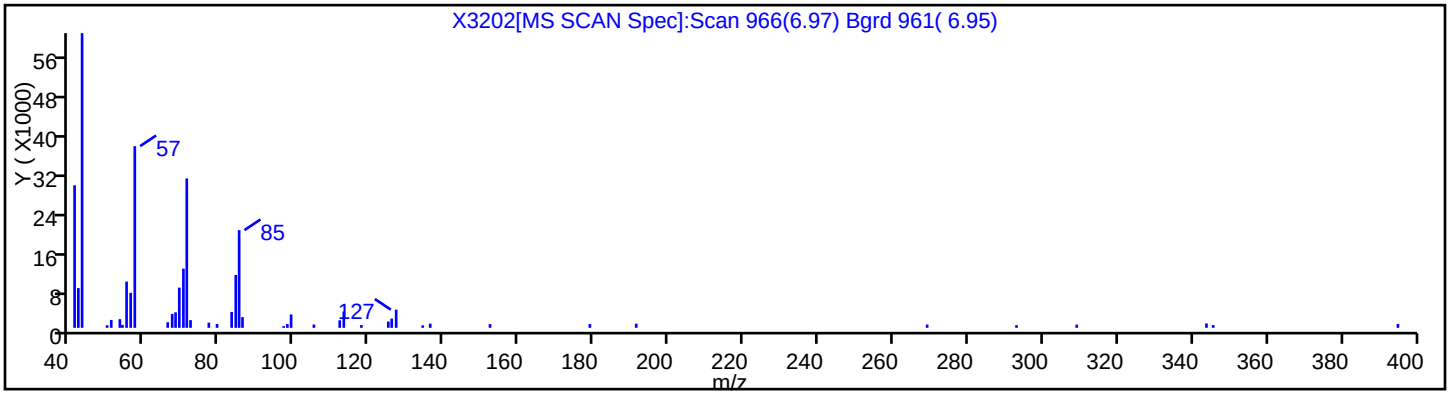


Report Date: 09-Mar-2013 09:29:36 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3202.D		
Injection Date:	20-Dec-2012 15:17:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96803	Lims Sample ID:	12
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

No Library Matches Found above the Threshold: 85

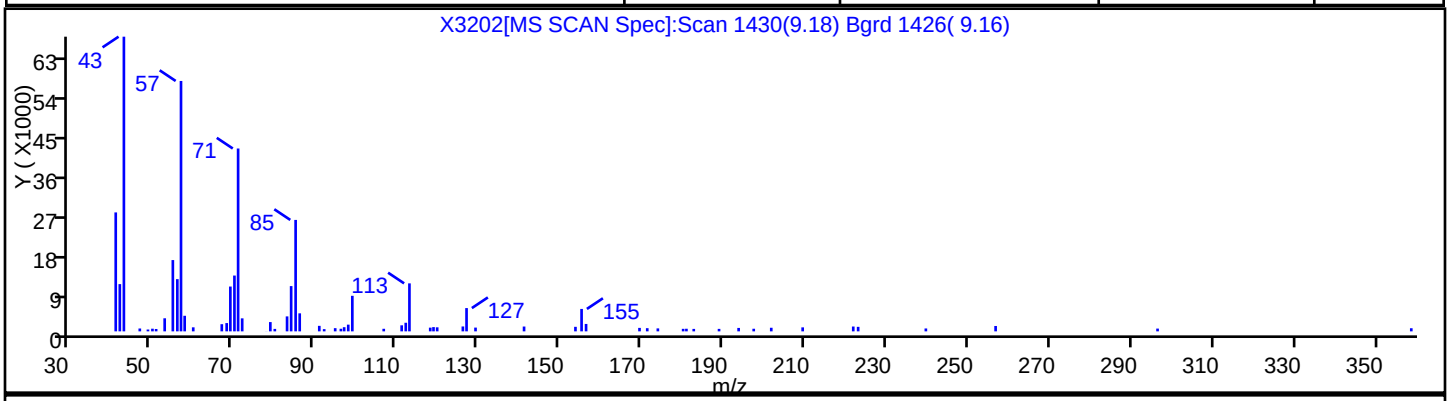


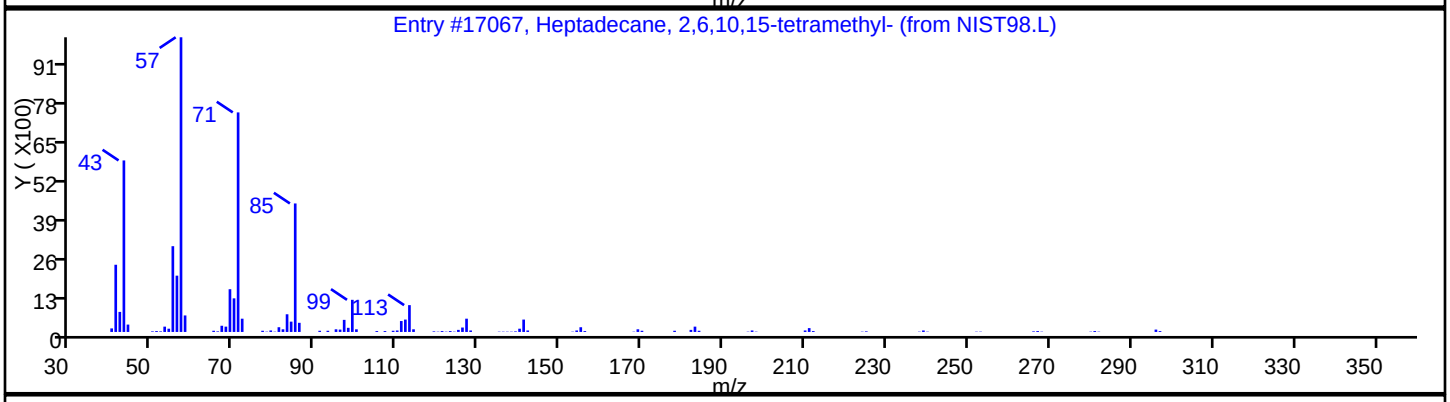
Report Date: 09-Mar-2013 09:29:36 Chrom Revision: 2.0 01-Feb-2013 10:03:10

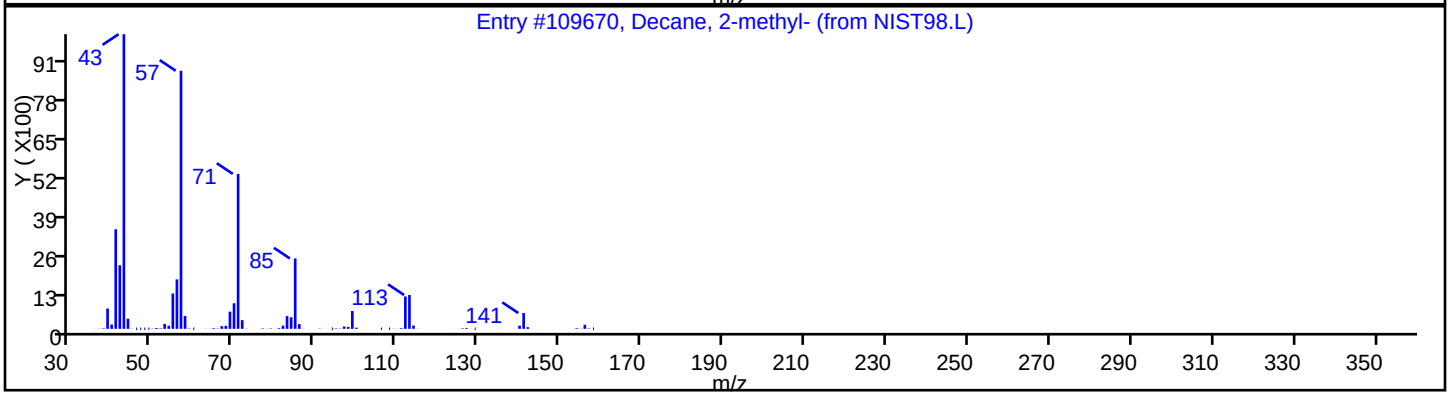
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3202.D		
Injection Date:	20-Dec-2012 15:17:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96803	Lims Sample ID:	12
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Heptadecane, 2,6,10,15-tetramethyl-	54833-48-6	NIST98.L	17067	87
Decane, 2-methyl-	6975-98-0	NIST98.L	109670	86





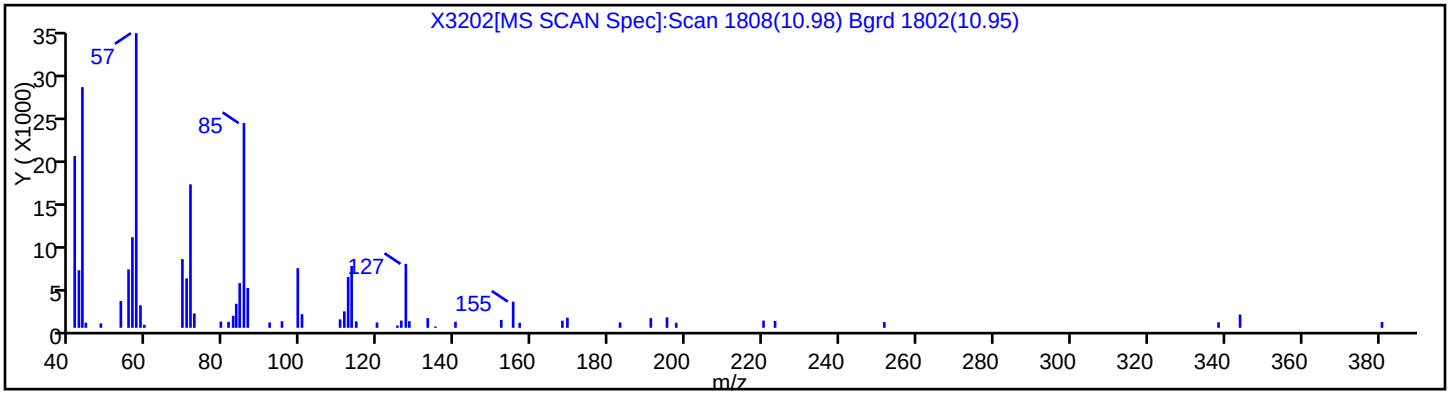


Report Date: 09-Mar-2013 09:29:36 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3202.D		
Injection Date:	20-Dec-2012 15:17:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96803	Lims Sample ID:	12
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

No Library Matches Found above the Threshold: 85

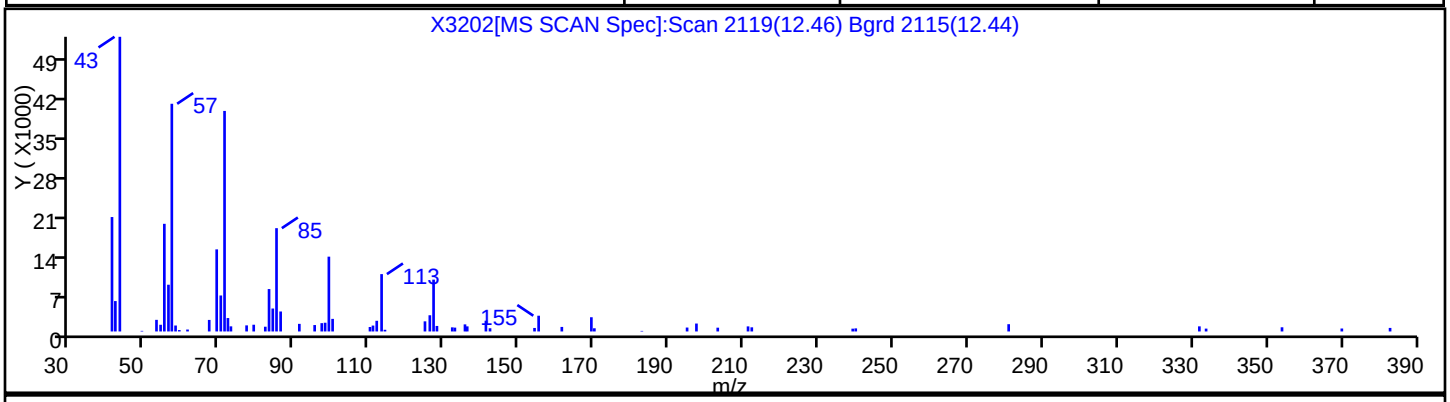


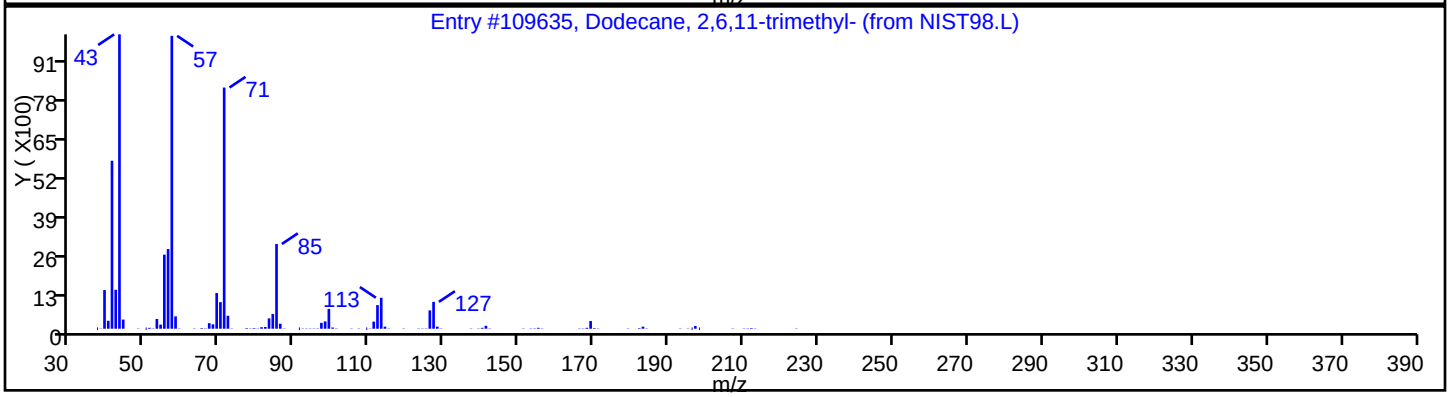
Report Date: 09-Mar-2013 09:29:36 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3202.D		
Injection Date:	20-Dec-2012 15:17:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96803	Lims Sample ID:	12
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Dodecane, 2,6,11-trimethyl-	31295-56-4	NIST98.L	109635	87



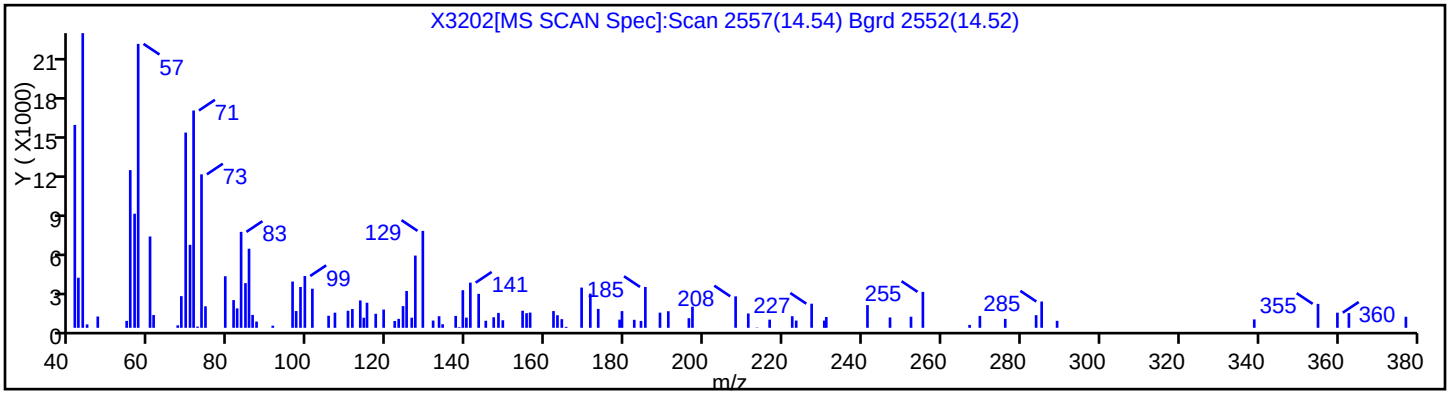


Report Date: 09-Mar-2013 09:29:36 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3202.D		
Injection Date:	20-Dec-2012 15:17:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96803	Lims Sample ID:	12
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

No Library Matches Found above the Threshold: 85

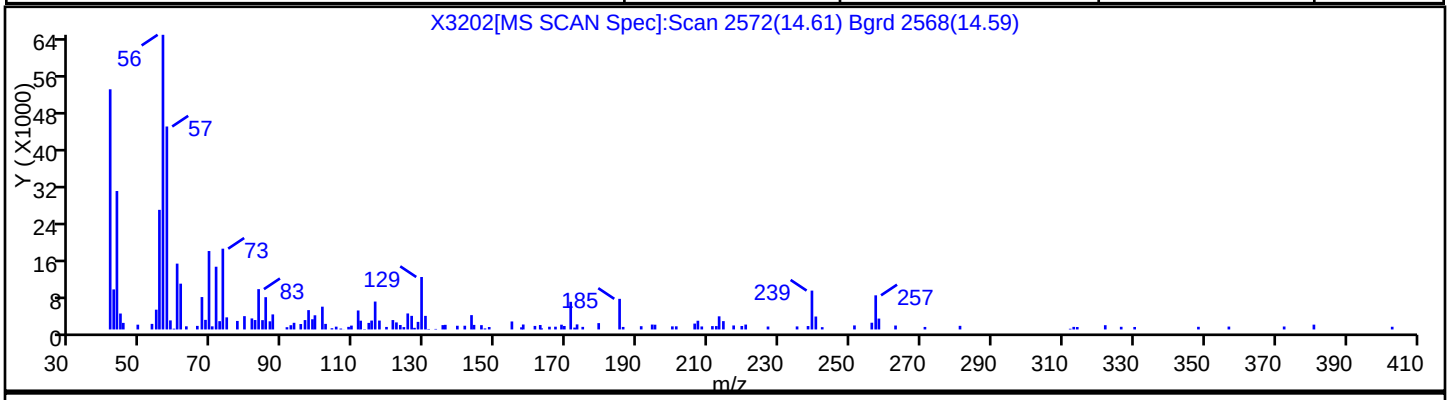


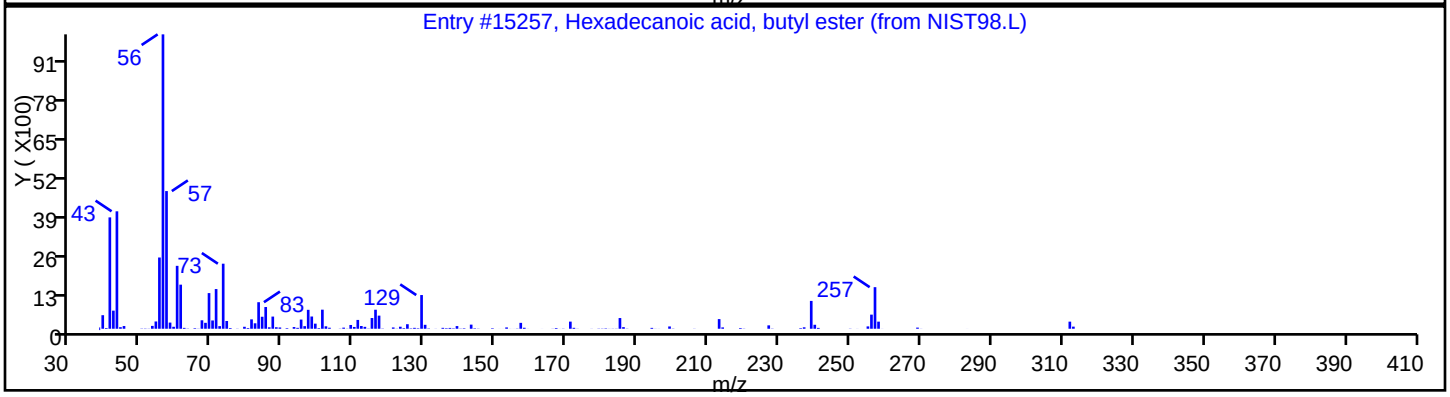
Report Date: 09-Mar-2013 09:29:36 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3202.D		
Injection Date:	20-Dec-2012 15:17:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96803	Lims Sample ID:	12
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Hexadecanoic acid, butyl ester	111-6-8	NIST98.L	15257	93



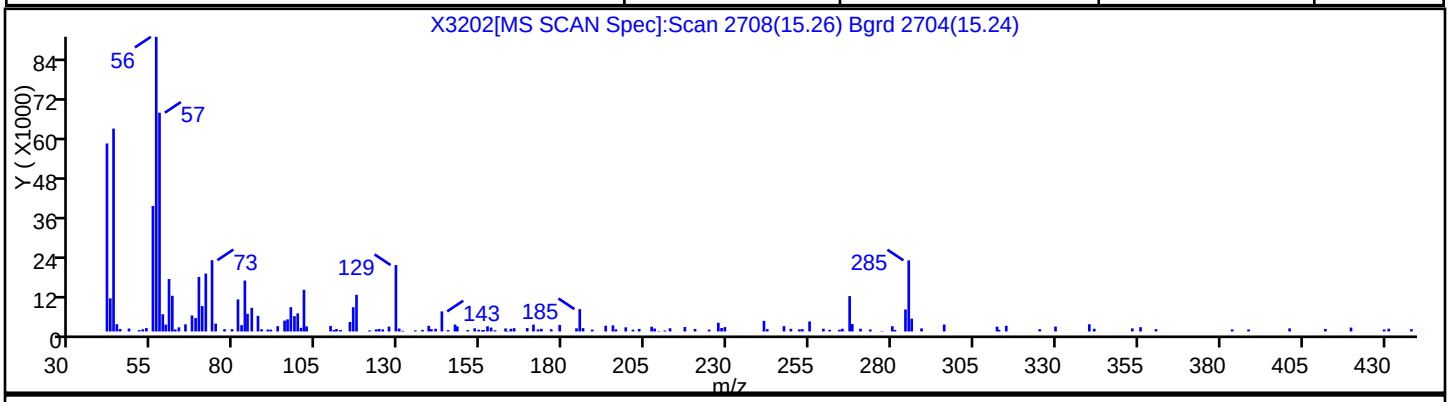


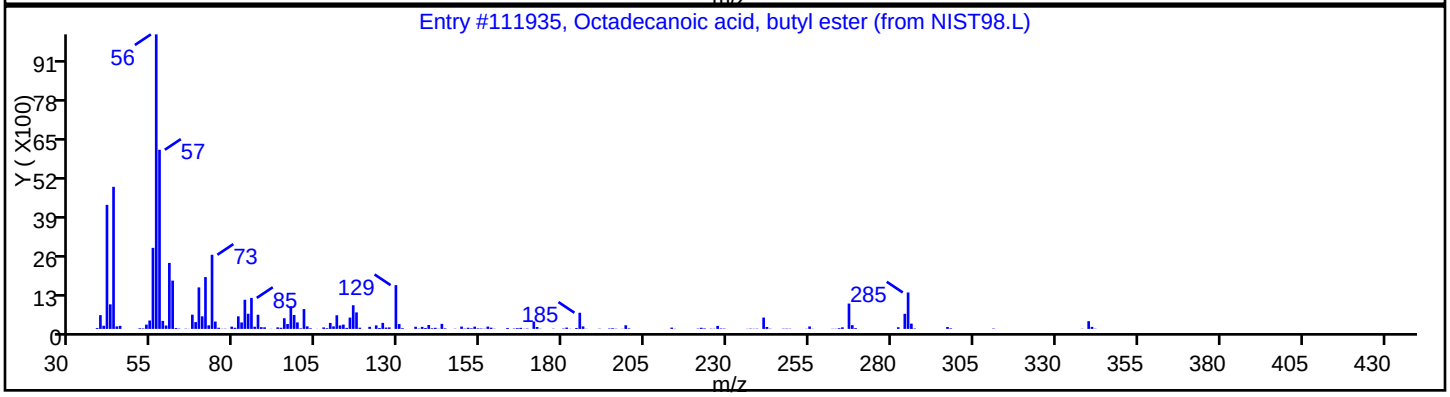
Report Date: 09-Mar-2013 09:29:36 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3202.D		
Injection Date:	20-Dec-2012 15:17:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96803	Lims Sample ID:	12
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Octadecanoic acid, butyl ester	123-95-5	NIST98.L	111935	93



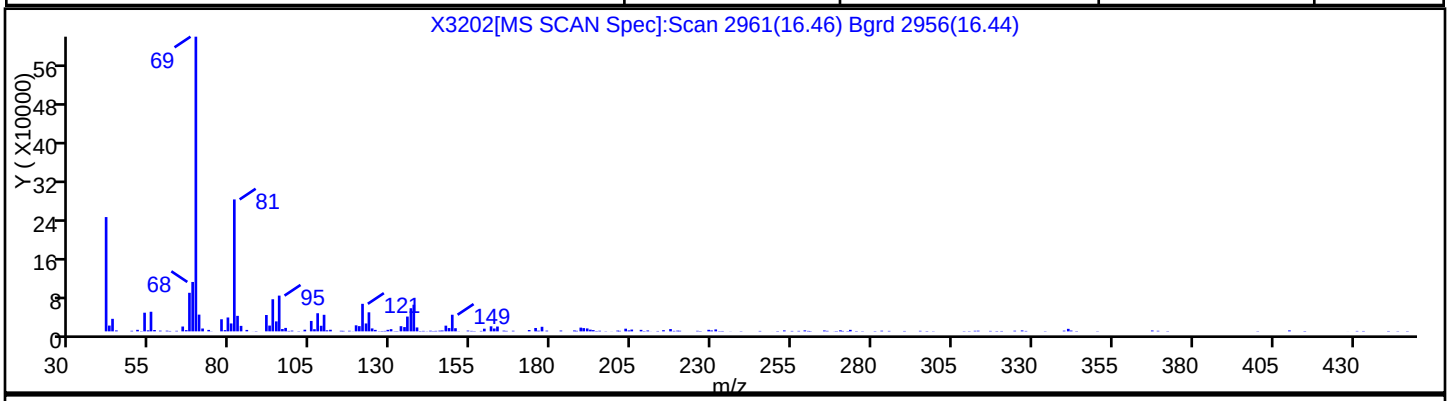


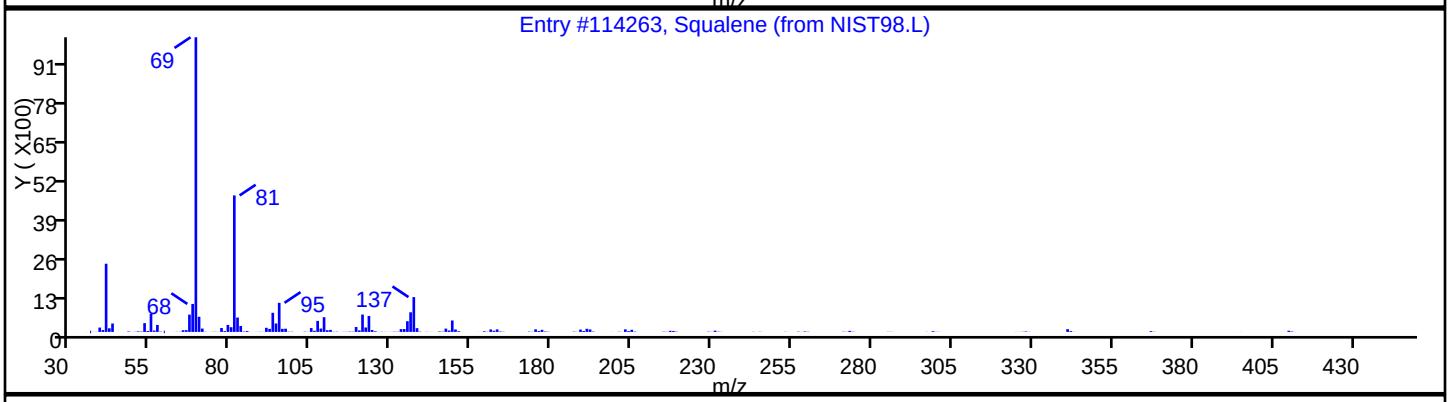
Report Date: 09-Mar-2013 09:29:36 Chrom Revision: 2.0 01-Feb-2013 10:03:10

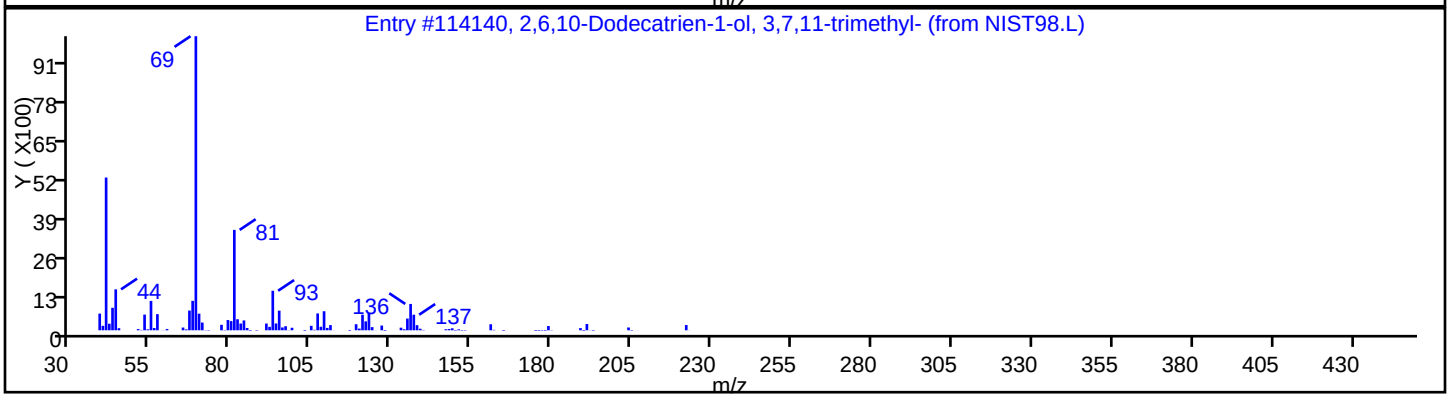
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3202.D		
Injection Date:	20-Dec-2012 15:17:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96803	Lims Sample ID:	12
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Squalene	7683-64-9	NIST98.L	114263	96
2,6,10-Dodecatrien-1-ol, 3,7,11-trimethy	4602-84-0	NIST98.L	114140	86







FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-30406-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 480-96561/2-A
Matrix: Solid
Lab File ID: X3203.D
Analysis Method: 8270D
Date Collected:
Extract. Method: 3546
Date Extracted: 12/19/2012 09:30
Sample wt/vol: 000030.2(g)
Date Analyzed: 12/20/2012 15:42
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.: 96803
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	210		33	9.9
95-50-1	1,2-Dichlorobenzene	204		33	9.9
541-73-1	1,3-Dichlorobenzene	195		33	9.9
100-52-7	Benzaldehyde	238		33	9.9
106-46-7	1,4-Dichlorobenzene	208		33	9.9
108-60-1	2,2'-oxybis[1-chloropropane]	194		33	9.9
95-95-4	2,4,5-Trichlorophenol	247		33	11
88-06-2	2,4,6-Trichlorophenol	255		33	14
100-51-6	Benzyl alcohol	176		66	9.9
120-83-2	2,4-Dichlorophenol	228		33	9.9
105-67-9	2,4-Dimethylphenol	240		33	9.9
51-28-5	2,4-Dinitrophenol	251		33	27
121-14-2	2,4-Dinitrotoluene	236		33	9.9
100-01-6	4-Nitroaniline	171		170	28
606-20-2	2,6-Dinitrotoluene	123		33	28
91-58-7	2-Chloronaphthalene	219		33	9.9
95-57-8	2-Chlorophenol	236		33	9.9
86-30-6	N-Nitrosodiphenylamine	144		33	9.9
91-57-6	2-Methylnaphthalene	203		33	9.9
95-48-7	2-Methylphenol	261		33	9.9
88-75-5	2-Nitrophenol	233		33	13
91-94-1	3,3'-Dichlorobenzidine	225		66	12
88-74-4	2-Nitroaniline	254		170	42
77-47-4	Hexachlorocyclopentadiene	192		66	9.9
106-47-8	4-Chloroaniline	190		66	30
100-02-7	4-Nitrophenol	240		170	14
83-32-9	Acenaphthene	215		33	9.9
534-52-1	4,6-Dinitro-2-methylphenol	189		170	32
95-94-3	1,2,4,5-Tetrachlorobenzene	561		33	9.9
208-96-8	Acenaphthylene	246		33	9.9
98-86-2	Acetophenone	502		33	9.9
62-53-3	Aniline	225		33	9.9
120-12-7	Anthracene	254		33	9.9
1912-24-9	Atrazine	218		33	9.9

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-30406-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 480-96561/2-A
Matrix: Solid
Lab File ID: X3203.D
Analysis Method: 8270D
Date Collected:
Extract. Method: 3546
Date Extracted: 12/19/2012 09:30
Sample wt/vol: 000030.2(g)
Date Analyzed: 12/20/2012 15:42
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.: 96803
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
103-33-3	Azobenzene	710		33	9.9
56-55-3	Benzo[a]anthracene	277		33	9.9
50-32-8	Benzo[a]pyrene	235		33	9.9
205-99-2	Benzo[b]fluoranthene	248		33	9.9
191-24-2	Benzo[g,h,i]perylene	160		33	9.9
105-60-2	Caprolactam	232		33	9.9
99-09-2	3-Nitroaniline	175		170	9.9
207-08-9	Benzo[k]fluoranthene	298		33	17
111-91-1	Bis(2-chloroethoxy)methane	235		33	9.9
92-52-4	1,1'-Biphenyl	273		33	9.9
111-44-4	Bis(2-chloroethyl)ether	219		33	9.9
117-81-7	Bis(2-ethylhexyl) phthalate	231		170	67
85-68-7	Butyl benzyl phthalate	224		33	9.9
218-01-9	Chrysene	236		33	9.9
621-64-7	N-Nitrosodi-n-propylamine	239		33	9.9
65-85-0	Benzoic acid	337		170	15
53-70-3	Dibenz(a,h)anthracene	168		33	9.9
132-64-9	Dibenzofuran	253		33	9.9
84-66-2	Diethyl phthalate	240		33	11
131-11-3	Dimethyl phthalate	239		33	9.9
84-74-2	Di-n-butyl phthalate	273		170	50
117-84-0	Di-n-octyl phthalate	285		33	9.9
101-84-8	Phenyl ether	326		33	9.9
58-90-2	2,3,4,6-Tetrachlorophenol	493		33	9.9
206-44-0	Fluoranthene	209		33	9.9
59-50-7	4-Chloro-3-methylphenol	241		66	9.9
86-73-7	Fluorene	226		33	9.9
7005-72-3	4-Chlorophenyl phenyl ether	238		33	9.9
118-74-1	Hexachlorobenzene	257		33	9.9
87-68-3	Hexachlorobutadiene	203		33	9.9
67-72-1	Hexachloroethane	210		33	9.9
193-39-5	Indeno[1,2,3-cd]pyrene	158		33	9.9
78-59-1	Isophorone	226		33	9.9
91-20-3	Naphthalene	212		33	9.9

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-30406-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 480-96561/2-A
Matrix: Solid
Lab File ID: X3203.D
Analysis Method: 8270D
Date Collected:
Extract. Method: 3546
Date Extracted: 12/19/2012 09:30
Sample wt/vol: 000030.2(g)
Date Analyzed: 12/20/2012 15:42
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.: 96803
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-95-3	Nitrobenzene	233		33	9.9
87-86-5	Pentachlorophenol	233		33	9.9
85-01-8	Phenanthrene	253		33	9.9
119-61-9	Benzophenone	294		33	9.9
108-95-2	Phenol	234		33	9.9
129-00-0	Pyrene	220		33	9.9
62-75-9	N-Nitrosodimethylamine	189		33	9.9
86-74-8	Carbazole	219		33	9.9
90-12-0	1-Methylnaphthalene	503		33	9.9
106-44-5	4-Methylphenol	527		33	9.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	84		30-130
367-12-4	2-Fluorophenol	77		30-130
4165-60-0	Nitrobenzene-d5	86		30-130
4165-62-2	Phenol-d5	86		30-130
321-60-8	2-Fluorobiphenyl	97		30-130
1718-51-0	p-Terphenyl-d14	91		30-130

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3203.D
Lims ID: LCS 480-96561/2-A Client ID:
Inject. Date: 20-Dec-2012 15:42:30 Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: 480-0017736-013
Misc. Info.:
Operator: ANM Instrument ID: HP5973X
Injection Vol: 1.0 ul ALS Bottle#: 15
Lims Batch ID: 96803 Lims Sample ID: 13
Detector: MS SCAN

Method: \\Bufchrom\ChromData\HP5973X\20121220-17736.b\X-8270LL.m
Last Update: 09-Mar-2013 09:29:35 Calib Date: 18-Dec-2012 14:44:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3139.D
Limit Group: MB - 8270RCP_MCP ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: RXI-5Sil MS Column Dia: 0.25 mm
Process Host: XAWRK034

First Level Reviewer: mckernar Date: 20-Dec-2012 16:25:25

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.551	6.570	-0.019	83	208342	5.00	
* 2 Naphthalene-d8	136	8.448	8.439	0.009	96	783539	5.00	
* 3 Acenaphthene-d10	164	11.092	11.064	0.028	81	465037	5.00	
* 4 Phenanthrene-d10	188	13.109	13.080	0.029	96	656111	5.00	
* 5 Chrysene-d12	240	15.748	15.734	0.014	94	505522	5.00	
* 6 Perylene-d12	264	17.027	17.013	0.014	96	573004	5.00	
$ 7 2-Fluorophenol	112	4.677	4.682	-0.005	1	72910	1.54	
$ 8 Phenol-d5	99	6.080	6.090	-0.010	53	98525	1.71	
$ 9 Nitrobenzene-d5	82	7.383	7.393	-0.010	82	101577	1.73	
$ 10 2-Fluorobiphenyl	172	10.103	10.075	0.028	94	226772	1.94	
$ 11 2,4,6-Tribromophenol	330	12.262	12.229	0.033	51	20190	1.67	
$ 12 p-Terphenyl-d14	244	14.783	14.759	0.024	93	176596	1.81	
19 N-Nitrosodimethylamine	42	2.794	2.766	0.028	72	217127	5.70	
20 Pyridine	52	2.865	2.837	0.028	73	178879	4.63	
21 Benzaldehyde	77	5.918	5.938	-0.020	89	293463	7.19	
23 Aniline	93	6.085	6.104	-0.019	97	517791	6.79	
22 Phenol	94	6.099	6.109	-0.010	47	447892	7.06	M
24 Bis(2-chloroethyl)ether	93	6.180	6.204	-0.024	98	330320	6.61	
25 2-Chlorophenol	128	6.251	6.270	-0.019	97	384922	7.13	
26 1,3-Dichlorobenzene	146	6.461	6.484	-0.024	97	394452	5.89	
27 1,4-Dichlorobenzene	146	6.575	6.594	-0.019	69	419608	6.28	
29 1,2-Dichlorobenzene	146	6.793	6.813	-0.020	83	384587	6.17	
28 Benzyl alcohol	108	6.798	6.813	-0.015	58	95451	5.31	M
31 2-Methylphenol	108	6.979	6.993	-0.014	75	356316	7.87	
32 2,2'-oxybis[1-chloropropane]	45	6.974	6.998	-0.024	73	476007	5.86	
33 Acetophenone	105	7.164	7.174	-0.010	98	1171425	15.2	
34 N-Nitrosodi-n-propylamine	70	7.174	7.183	-0.009	83	280266	7.22	
36 4-Methylphenol	108	7.221	7.231	-0.010	79	729826	15.9	
37 Hexachloroethane	117	7.288	7.298	-0.010	95	168593	6.34	
38 Nitrobenzene	77	7.412	7.421	-0.009	83	428476	7.03	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
40 Isophorone	82	7.778	7.778	0.0	74	685472	6.83	
41 2-Nitrophenol	139	7.892	7.892	0.0	86	195301	7.04	
43 2,4-Dimethylphenol	107	8.006	8.001	0.005	86	380088	7.26	M
42 o,o',o''-Triethylphosphorothioat	198	8.087	8.055	0.032	89	213175	0	
45 Bis(2-chloroethoxy)methane	93	8.125	8.125	0.0	98	421500	7.10	
44 Benzoic acid	105	8.192	8.177	0.015	1	288225	10.2	M
47 2,4-Dichlorophenol	162	8.287	8.277	0.010	82	292701	6.87	
48 1,2,4-Trichlorobenzene	180	8.372	8.363	0.009	98	331702	6.33	
49 Naphthalene	128	8.477	8.472	0.005	93	1113316	6.41	
51 4-Chloroaniline	127	8.610	8.596	0.014	96	360757	5.74	
52 Hexachlorobutadiene	225	8.672	8.662	0.010	81	175269	6.13	
54 Caprolactam	113	9.152	9.129	0.023	84	108399	6.99	
55 4-Chloro-3-methylphenol	107	9.414	9.385	0.029	72	343127	7.29	
56 2-Methylnaphthalene	142	9.533	9.509	0.024	77	745588	6.13	
57 1-Methylnaphthalene	142	9.675	9.656	0.019	88	1703488	15.2	
58 Hexachlorocyclopentadiene	237	9.766	9.742	0.024	66	95162	5.79	
59 1,2,4,5-Tetrachlorobenzene	216	9.789	9.761	0.028	91	739552	17.0	
60 2,4,6-Trichlorophenol	196	9.999	9.970	0.029	94	206559	7.69	
61 2,4,5-Trichlorophenol	196	10.099	10.056	0.043	90	193506	7.45	
62 1,1'-Biphenyl	154	10.246	10.218	0.028	98	1110318	8.26	
63 2-Chloronaphthalene	162	10.265	10.265	0.0	94	699139	6.63	
64 Phenyl ether	170	10.412	10.384	0.028	90	719465	9.84	
65 2-Nitroaniline	65	10.469	10.436	0.033	80	236016	7.66	
66 1,4-Dinitrobenzene	75	10.698	10.665	0.033	82	144294	0	
67 Dimethyl phthalate	163	10.750	10.722	0.028	94	868780	7.22	
68 2,6-Dinitrotoluene	165	10.836	10.807	0.029	85	202889	3.72	
69 Acenaphthylene	152	10.883	10.850	0.033	88	1208682	7.43	
70 3-Nitroaniline	138	11.111	11.069	0.042	75	142866	5.27	
71 Acenaphthene	153	11.145	11.112	0.033	90	737088	6.51	
72 2,4-Dinitrophenol	184	11.311	11.240	0.071	73	70879	7.60	M
73 Dibenzofuran	168	11.411	11.378	0.033	97	1054293	7.63	
74 2,4-Dinitrotoluene	165	11.454	11.416	0.038	95	247968	7.12	
75 4-Nitrophenol	109	11.563	11.454	0.109	28	168482	7.24	M
76 2,3,4,6-Tetrachlorophenol	232	11.635	11.597	0.038	85	310847	14.9	
78 Diethyl phthalate	149	11.806	11.777	0.029	92	953293	7.23	
79 Fluorene	166	11.915	11.882	0.033	81	862270	6.82	
80 4-Chlorophenyl phenyl ether	204	11.929	11.901	0.028	89	401872	7.18	
81 4-Nitroaniline	138	12.025	11.982	0.043	82	149885	5.18	
82 4,6-Dinitro-2-methylphenol	198	12.053	12.010	0.043	56	100613	5.72	
83 N-Nitrosodiphenylamine	169	12.105	12.077	0.028	97	662001	4.34	
16 1,2-Diphenylhydrazine	77	12.148	12.120	0.028	95	2110096	21.4	E
85 Azobenzene	77	12.148	12.120	0.028	94	2110096	21.4	E
86 Benzophenone	105	12.167	12.144	0.023	92	980971	8.87	
87 Sulfotepp	322	12.343	12.297	0.046	77	163376	0	
88 Phorate	75	12.495	12.454	0.041	87	560766	0	
89 4-Bromophenyl phenyl ether	248	12.576	12.548	0.028	85	197553	8.03	
91 Hexachlorobenzene	284	12.638	12.610	0.028	77	200679	7.75	
90 Dimethoate	87	12.728	12.668	0.060	83	304877	0	
93 Atrazine	200	12.819	12.800	0.019	85	230022	6.58	
94 Pentachlorophenol	266	12.919	12.885	0.034	66	82098	7.02	
97 Phenanthrene	178	13.133	13.109	0.024	90	1116900	7.64	
96 Disulfoton	88	13.133	13.120	0.013	70	499421	0	

Report Date: 09-Mar-2013 09:29:37 Chrom Revision: 2.0 01-Feb-2013 10:03:10
Data File: \\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3203.D

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
98 Anthracene	178	13.194	13.171	0.023	95	1143914	7.68	
99 Carbazole	167	13.404	13.380	0.024	99	913189	6.61	
100 Methyl parathion	109	13.561	13.543	0.018	87	268203	0	
102 Di-n-butyl phthalate	149	13.784	13.765	0.019	96	1320392	8.25	
103 Ethyl Parathion	97	13.970	14.003	-0.033	75	176812	0	
104 Fluoranthene	202	14.412	14.388	0.024	96	913212	6.31	
106 Pyrene	202	14.631	14.607	0.024	98	898125	6.63	
107 Famphur	218	15.182	15.168	0.014	81	367498	0	
108 Butyl benzyl phthalate	149	15.225	15.211	0.014	92	505715	6.75	
109 3,3'-Dichlorobenzidine	252	15.720	15.705	0.015	70	308421	6.79	
110 Bis(2-ethylhexyl) phthalate	149	15.724	15.710	0.014	95	720192	6.98	
111 Benzo[a]anthracene	228	15.739	15.720	0.019	95	911150	8.37	
112 Chrysene	228	15.772	15.753	0.019	91	881003	7.13	
113 Di-n-octyl phthalate	149	16.257	16.248	0.009	97	1401746	8.62	
114 Benzo[b]fluoranthene	252	16.671	16.657	0.014	92	996820	7.49	
115 Benzo[k]fluoranthene	252	16.695	16.680	0.014	98	1231998	8.98	
116 Benzo[a]pyrene	252	16.980	16.961	0.019	71	913698	7.10	
118 Dibenz(a,h)anthracene	278	18.126	18.107	0.019	65	591534	5.08	
117 Indeno[1,2,3-cd]pyrene	276	18.121	18.107	0.014	96	656625	4.78	
119 Benzo[g,h,i]perylene	276	18.435	18.421	0.014	91	552793	4.82	M
S 121 3-Methylphenol	1		0.000					

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

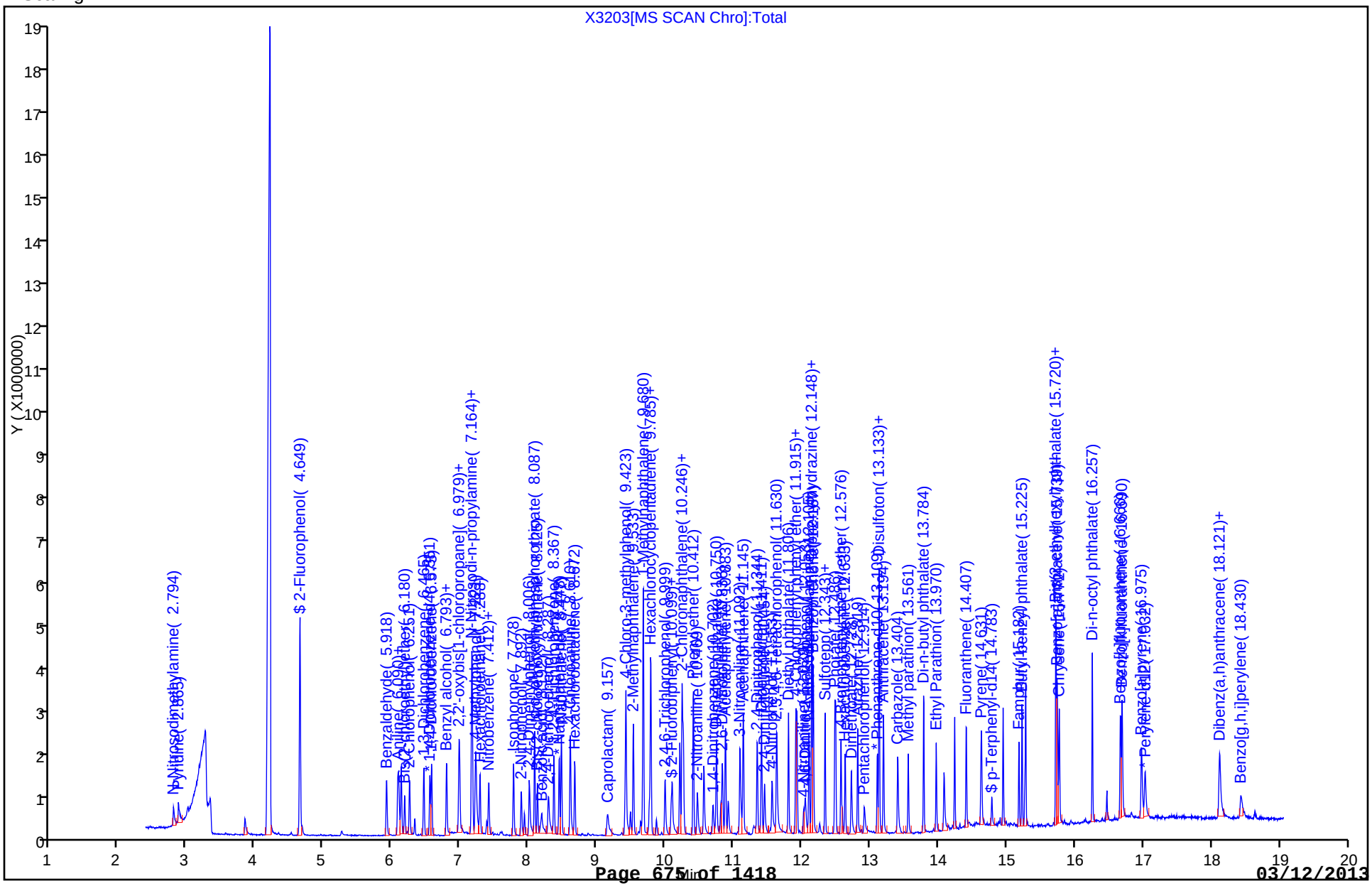
Review Flags
M - Manually Integrated

Report Date: 09-Mar-2013 09:29:37 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3203.D		
Injection Date:	20-Dec-2012 15:42:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96803	Lims Sample ID:	13
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Y Scaling:



Manual Integration/User Assign Peak Report

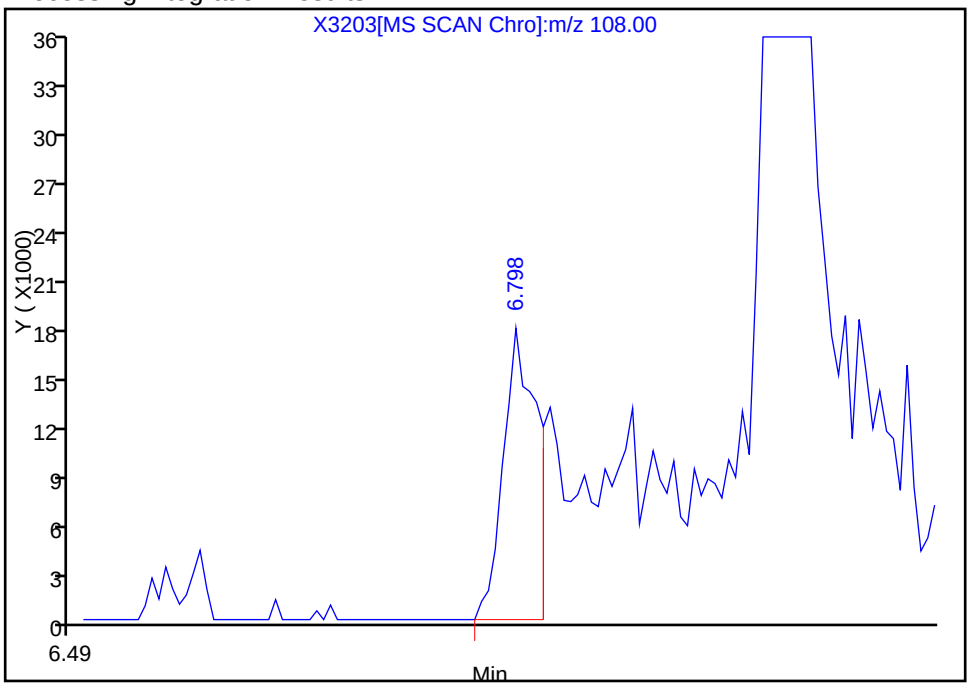
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3203.D		
Injection Date:	20-Dec-2012 15:42:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96803	Lims Sample ID:	13
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

28 Benzyl alcohol, Signal: 1, m/z: 108.0 Type: quant, RT: 6.81

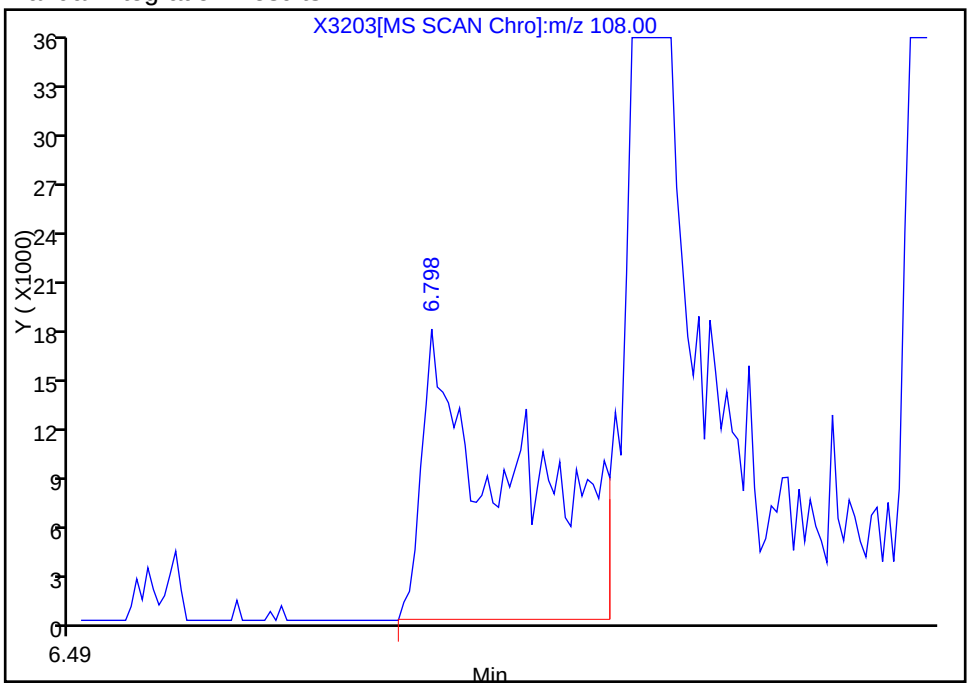
Processing Integration Results

RT: 6.80
Response: 28383
Amount: 1.724688



Manual Integration Results

RT: 6.80
Response: 95451
Amount: 5.309587



Reviewer: mckernar, 20-Dec-2012 16:25:25
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

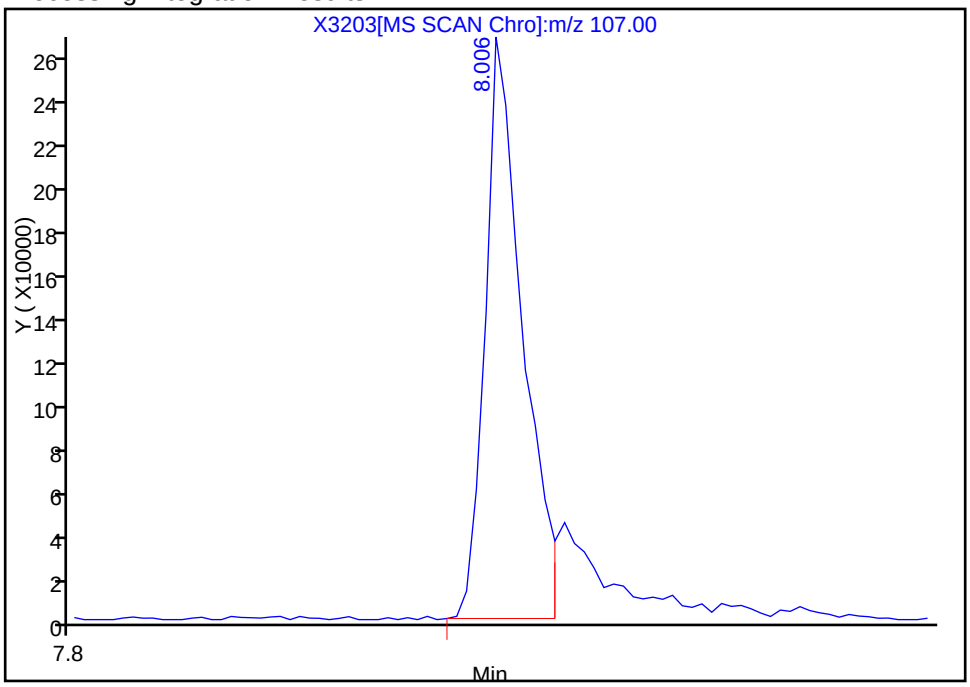
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3203.D		
Injection Date:	20-Dec-2012 15:42:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96803	Lims Sample ID:	13
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

43 2,4-Dimethylphenol, Signal: 1, m/z: 107.0 Type: quant, RT: 8.00

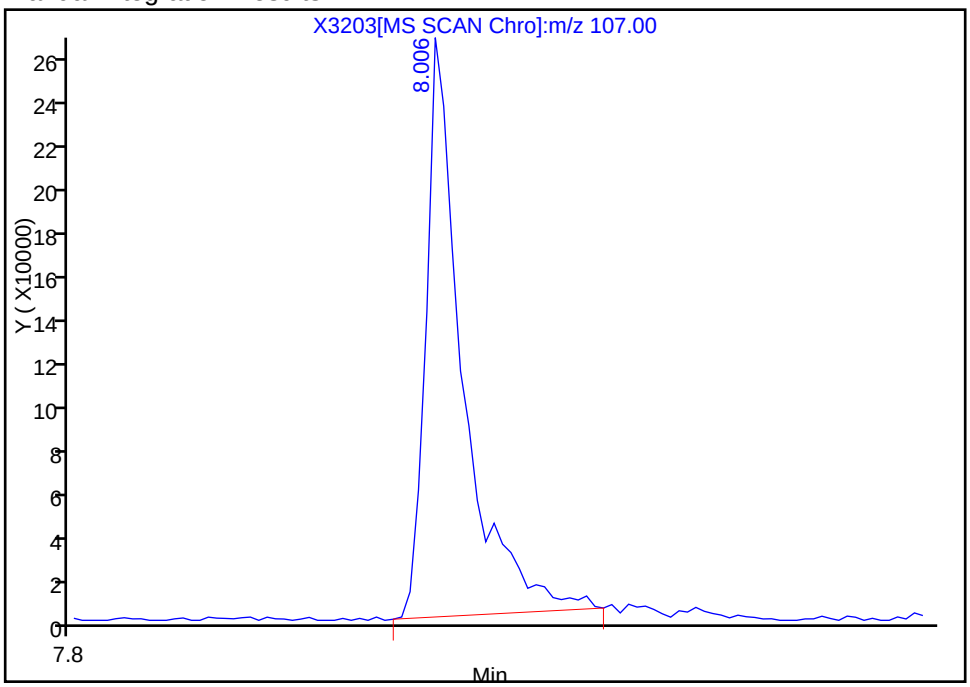
Processing Integration Results

RT: 8.01
Response: 332311
Amount: 6.959454



Manual Integration Results

RT: 8.01
Response: 380088
Amount: 7.261271



Reviewer: mckernar, 20-Dec-2012 16:25:25
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

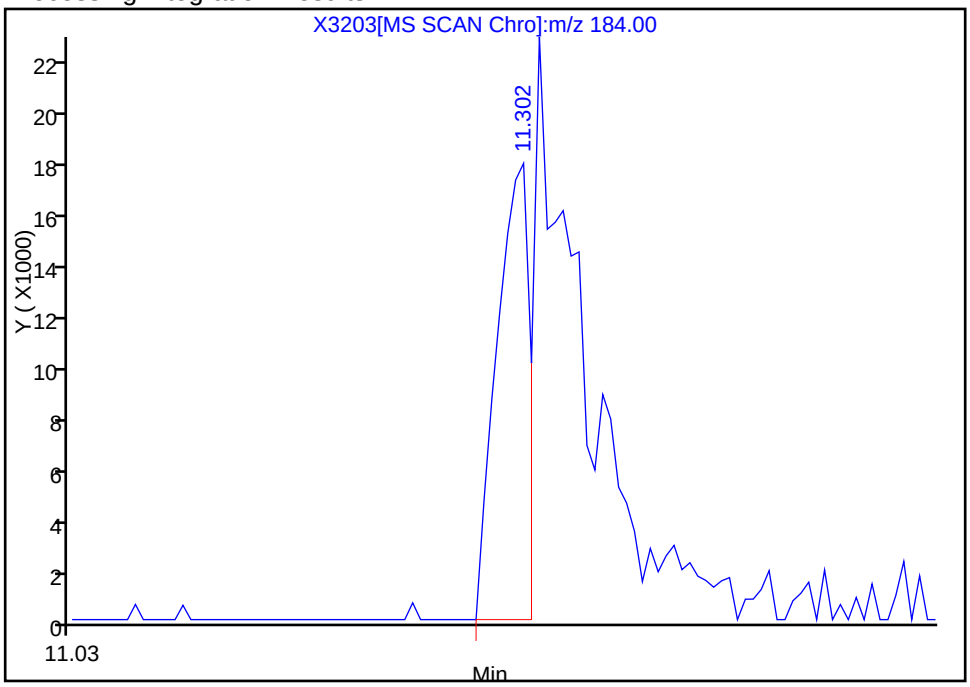
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3203.D		
Injection Date:	20-Dec-2012 15:42:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96803	Lims Sample ID:	13
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

72 2,4-Dinitrophenol, Signal: 1, m/z: 184.0 Type: quant, RT: 11.24

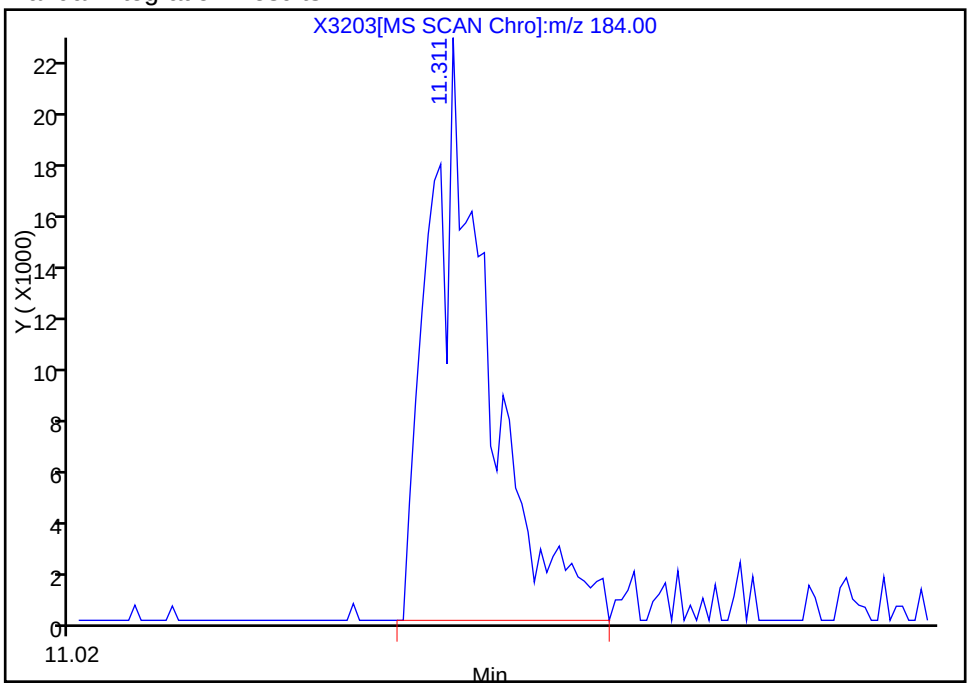
Processing Integration Results

RT: 11.30
Response: 24274
Amount: 1.954909



Manual Integration Results

RT: 11.31
Response: 70879
Amount: 7.595182



Reviewer: mckernar, 20-Dec-2012 16:25:25
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

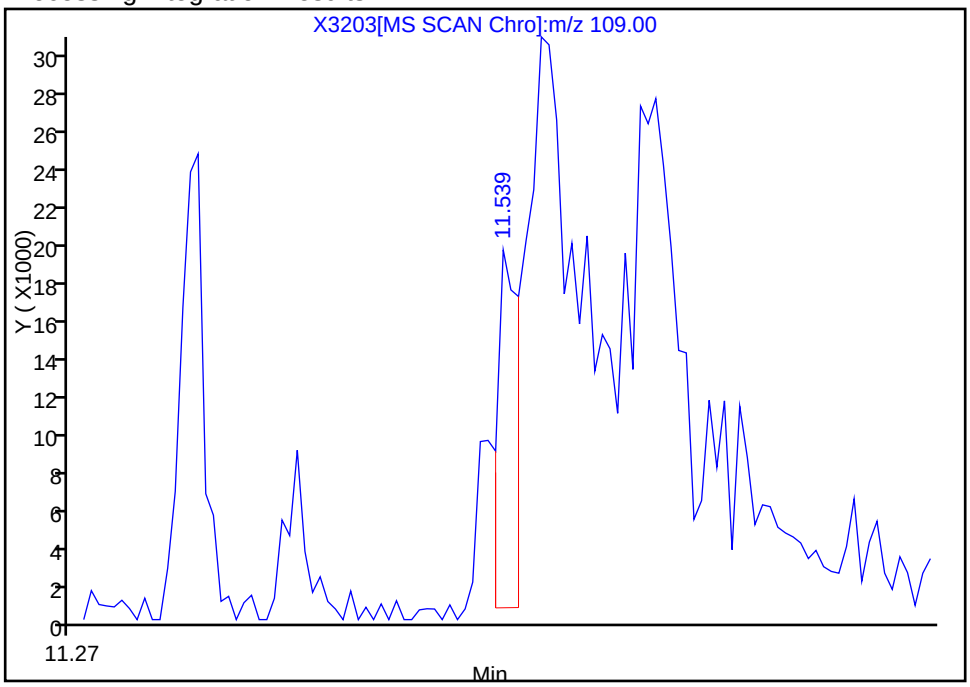
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3203.D		
Injection Date:	20-Dec-2012 15:42:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96803	Lims Sample ID:	13
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

75 4-Nitrophenol, Signal: 1, m/z: 109.0 Type: quant, RT: 11.45

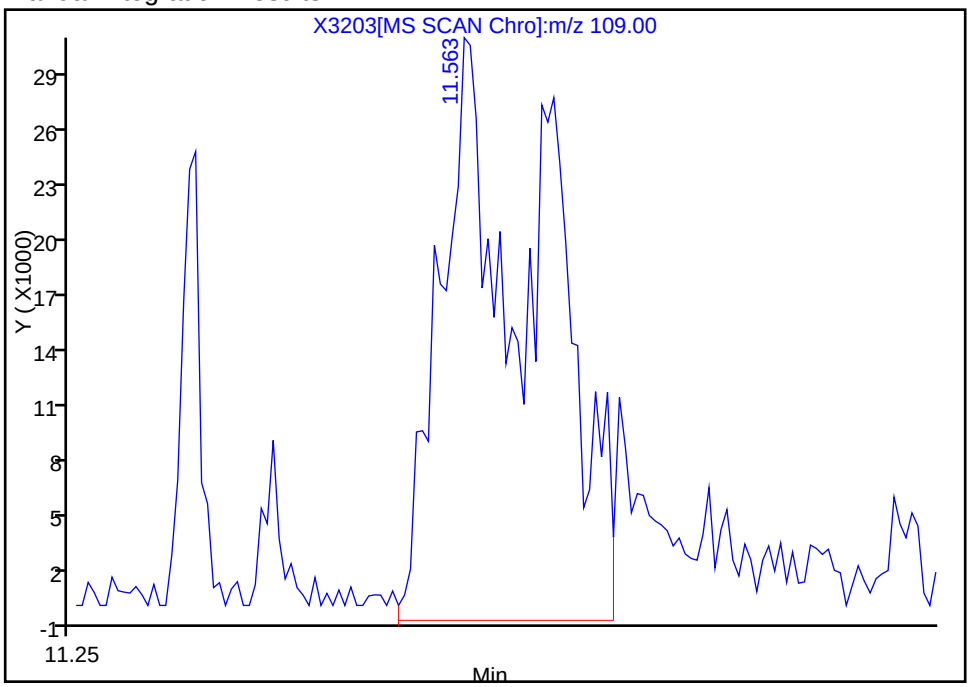
Processing Integration Results

RT: 11.54
Response: 16882
Amount: 0.883909



Manual Integration Results

RT: 11.56
Response: 168482
Amount: 7.238298



Reviewer: mckernar, 20-Dec-2012 16:25:25
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 09-Mar-2013 09:29:37 Chrom Revision: 2.0 01-Feb-2013 10:03:10

Manual Integration/User Assign Peak Report

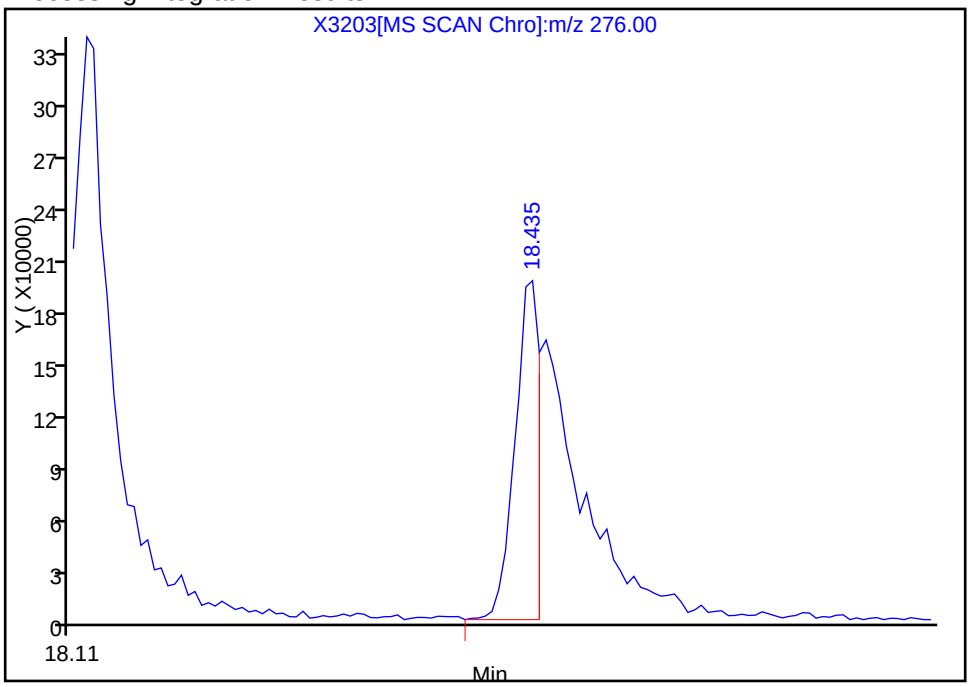
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3203.D		
Injection Date:	20-Dec-2012 15:42:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96803	Lims Sample ID:	13
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

119 Benzo[g,h,i]perylene, Signal: 1, m/z: 276.0 Type: quant, RT: 18.42

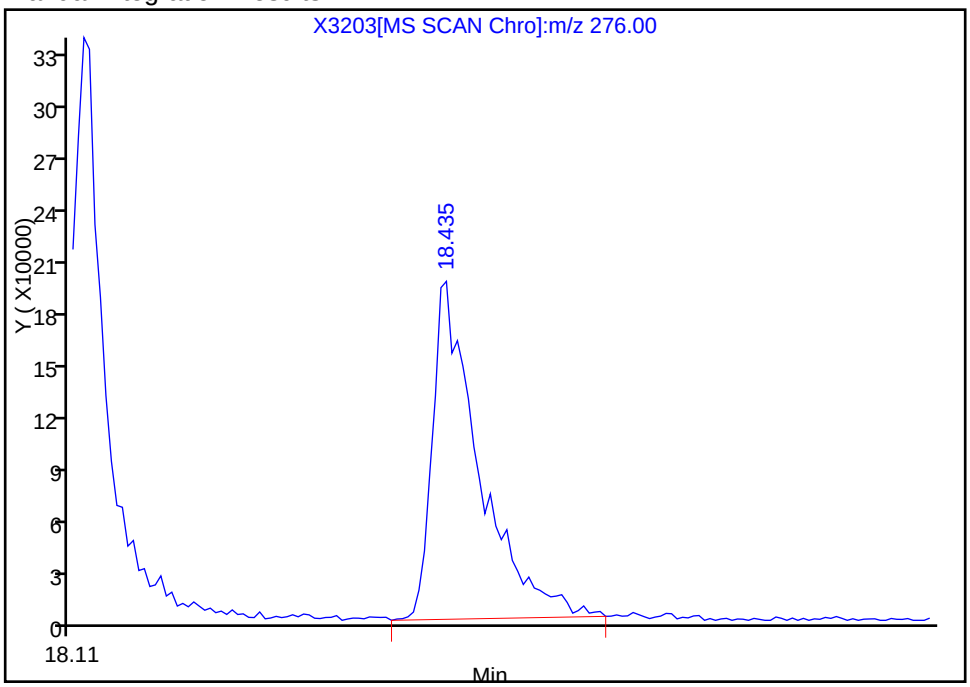
Processing Integration Results

RT: 18.44
Response: 235778
Amount: 1.965405



Manual Integration Results

RT: 18.44
Response: 552793
Amount: 4.823779



Reviewer: mckernar, 20-Dec-2012 16:25:25
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

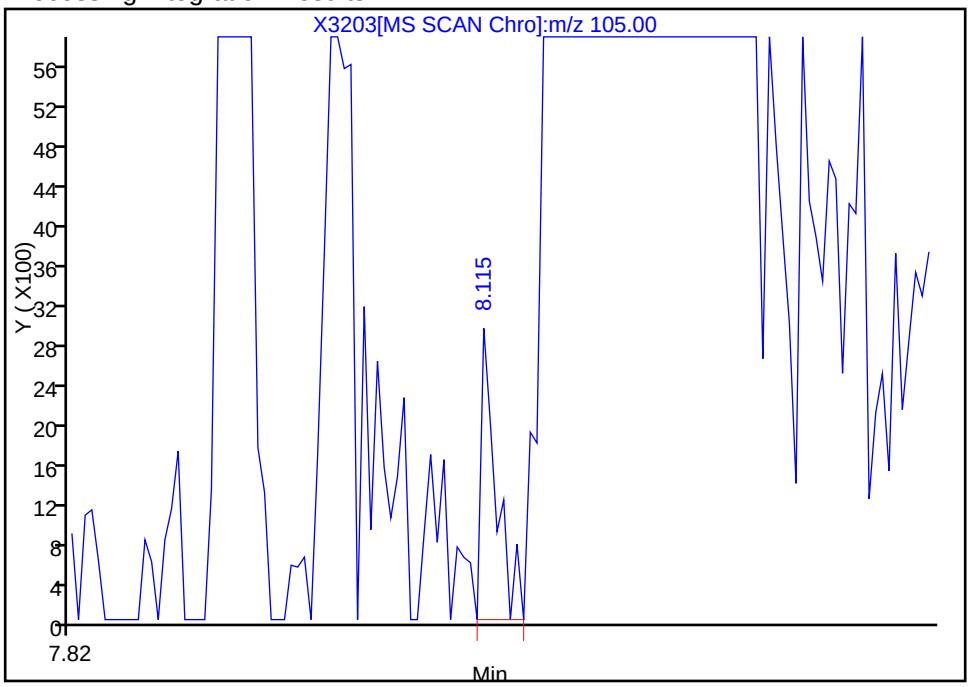
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3203.D		
Injection Date:	20-Dec-2012 15:42:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96803	Lims Sample ID:	13
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

44 Benzoic acid, Signal: 1, m/z: 105.0 Type: quant, RT: 8.18

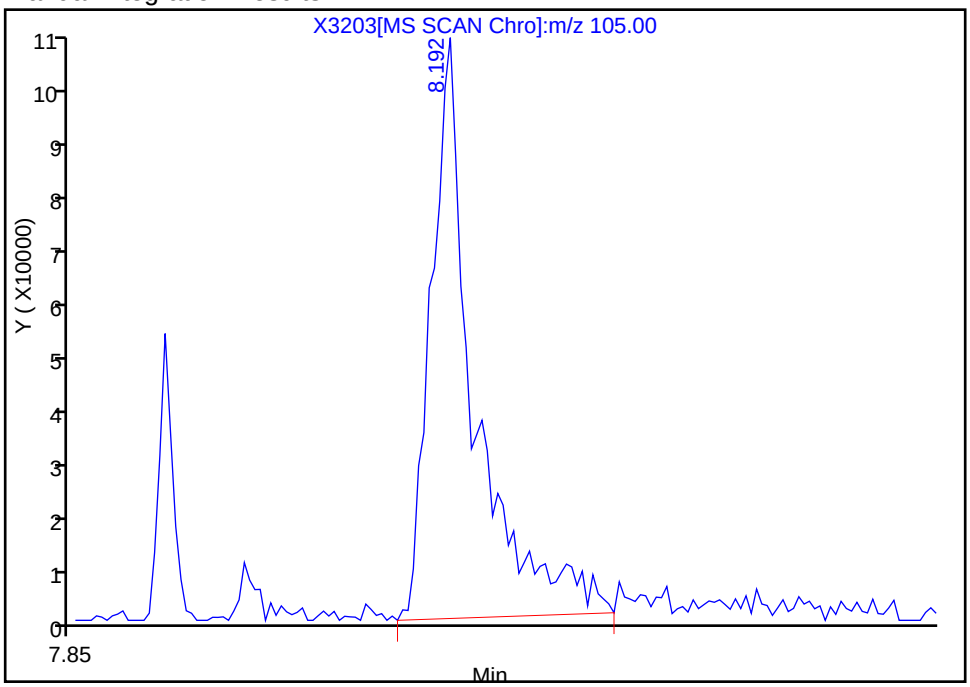
Processing Integration Results

RT: 8.12
Response: 2224
Amount: 0.063622



Manual Integration Results

RT: 8.19
Response: 288225
Amount: 10.171876



Reviewer: mckernar, 20-Dec-2012 16:25:25
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

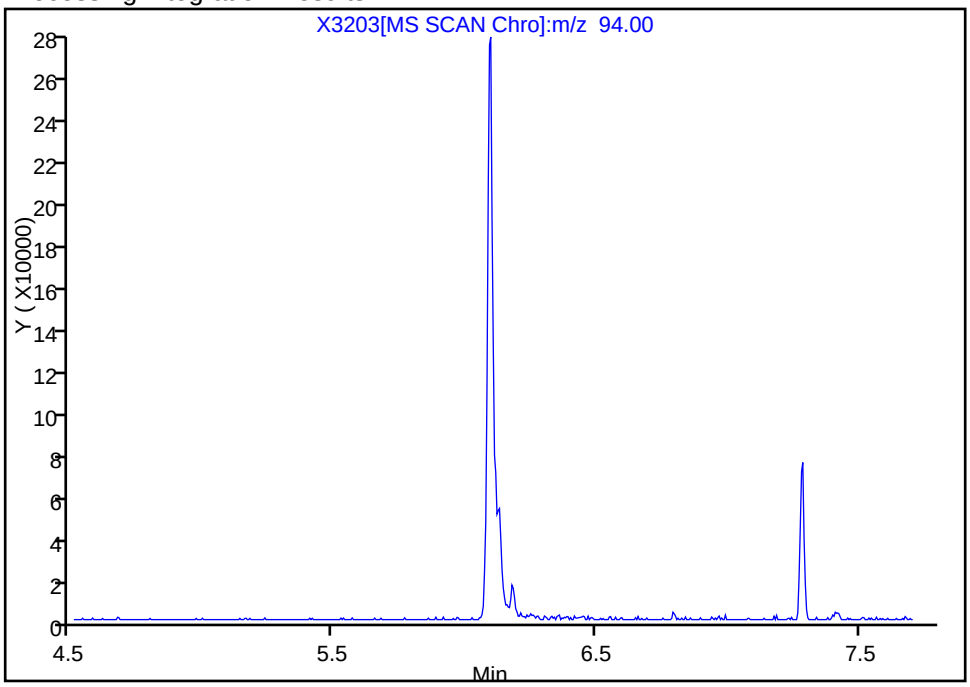
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3203.D		
Injection Date:	20-Dec-2012 15:42:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96803	Lims Sample ID:	13
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

22 Phenol, Signal: 1, m/z: 94.0 Type: quant, RT: 6.11

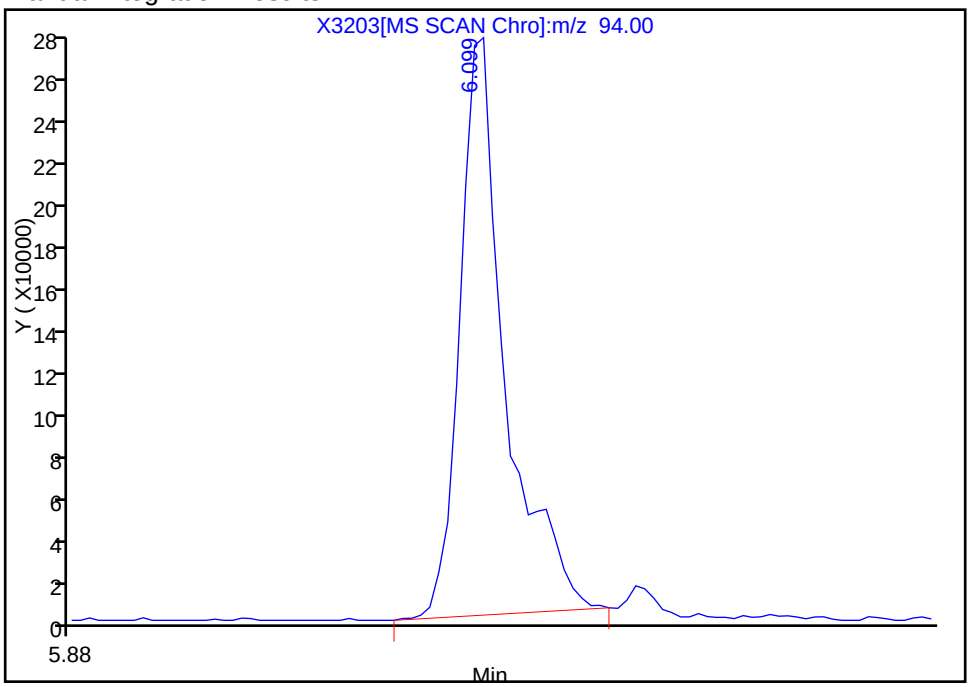
Processing Integration Results

Not Detected
Expected RT: 6.11



Manual Integration Results

RT: 6.10
Response: 447892
Amount: 7.057448



Reviewer: mckernar, 20-Dec-2012 16:25:25
Audit Action: Manually Integrated
Audit Reason: Assign Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-30406-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCSD 480-96561/3-A
Matrix: Solid
Lab File ID: X3204.D
Analysis Method: 8270D
Date Collected:
Extract. Method: 3546
Date Extracted: 12/19/2012 09:30
Sample wt/vol: 000030.2(g)
Date Analyzed: 12/20/2012 16:08
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.: 96803
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	223		33	9.9
95-50-1	1,2-Dichlorobenzene	212		33	9.9
541-73-1	1,3-Dichlorobenzene	204		33	9.9
100-52-7	Benzaldehyde	252		33	9.9
106-46-7	1,4-Dichlorobenzene	207		33	9.9
108-60-1	2,2'-oxybis[1-chloropropane]	209		33	9.9
95-95-4	2,4,5-Trichlorophenol	254		33	11
88-06-2	2,4,6-Trichlorophenol	273		33	14
100-51-6	Benzyl alcohol	143		66	9.9
120-83-2	2,4-Dichlorophenol	246		33	9.9
105-67-9	2,4-Dimethylphenol	249		33	9.9
51-28-5	2,4-Dinitrophenol	116		33	27
121-14-2	2,4-Dinitrotoluene	242		33	9.9
100-01-6	4-Nitroaniline	184		170	28
606-20-2	2,6-Dinitrotoluene	128		33	28
91-58-7	2-Chloronaphthalene	227		33	9.9
95-57-8	2-Chlorophenol	243		33	9.9
86-30-6	N-Nitrosodiphenylamine	145		33	9.9
91-57-6	2-Methylnaphthalene	219		33	9.9
95-48-7	2-Methylphenol	239		33	9.9
88-75-5	2-Nitrophenol	239		33	13
91-94-1	3,3'-Dichlorobenzidine	242		66	12
88-74-4	2-Nitroaniline	277		170	42
77-47-4	Hexachlorocyclopentadiene	201		66	9.9
106-47-8	4-Chloroaniline	208		66	30
100-02-7	4-Nitrophenol	36.2	J	170	14
83-32-9	Acenaphthene	225		33	9.9
534-52-1	4,6-Dinitro-2-methylphenol	221		170	32
95-94-3	1,2,4,5-Tetrachlorobenzene	604		33	9.9
208-96-8	Acenaphthylene	254		33	9.9
98-86-2	Acetophenone	540		33	9.9
62-53-3	Aniline	237		33	9.9
120-12-7	Anthracene	259		33	9.9
1912-24-9	Atrazine	265		33	9.9

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-30406-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCSD 480-96561/3-A
Matrix: Solid
Lab File ID: X3204.D
Analysis Method: 8270D
Date Collected:
Extract. Method: 3546
Date Extracted: 12/19/2012 09:30
Sample wt/vol: 000030.2(g)
Date Analyzed: 12/20/2012 16:08
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.: 96803
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
103-33-3	Azobenzene	684		33	9.9
56-55-3	Benzo[a]anthracene	278		33	9.9
50-32-8	Benzo[a]pyrene	248		33	9.9
205-99-2	Benzo[b]fluoranthene	267		33	9.9
191-24-2	Benzo[g,h,i]perylene	154		33	9.9
105-60-2	Caprolactam	309		33	9.9
99-09-2	3-Nitroaniline	235		170	9.9
207-08-9	Benzo[k]fluoranthene	302		33	17
111-91-1	Bis(2-chloroethoxy)methane	235		33	9.9
92-52-4	1,1'-Biphenyl	291		33	9.9
111-44-4	Bis(2-chloroethyl)ether	225		33	9.9
117-81-7	Bis(2-ethylhexyl) phthalate	254		170	67
85-68-7	Butyl benzyl phthalate	243		33	9.9
218-01-9	Chrysene	261		33	9.9
621-64-7	N-Nitrosodi-n-propylamine	237		33	9.9
65-85-0	Benzoic acid	376		170	15
53-70-3	Dibenz(a,h)anthracene	172		33	9.9
132-64-9	Dibenzofuran	256		33	9.9
84-66-2	Diethyl phthalate	253		33	11
131-11-3	Dimethyl phthalate	256		33	9.9
84-74-2	Di-n-butyl phthalate	277		170	50
117-84-0	Di-n-octyl phthalate	298		33	9.9
101-84-8	Phenyl ether	287		33	9.9
58-90-2	2,3,4,6-Tetrachlorophenol	585		33	9.9
206-44-0	Fluoranthene	205		33	9.9
59-50-7	4-Chloro-3-methylphenol	275		66	9.9
86-73-7	Fluorene	236		33	9.9
7005-72-3	4-Chlorophenyl phenyl ether	239		33	9.9
118-74-1	Hexachlorobenzene	254		33	9.9
87-68-3	Hexachlorobutadiene	218		33	9.9
67-72-1	Hexachloroethane	216		33	9.9
193-39-5	Indeno[1,2,3-cd]pyrene	162		33	9.9
78-59-1	Isophorone	242		33	9.9
91-20-3	Naphthalene	218		33	9.9

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-30406-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCSD 480-96561/3-A
Matrix: Solid
Lab File ID: X3204.D
Analysis Method: 8270D
Date Collected:
Extract. Method: 3546
Date Extracted: 12/19/2012 09:30
Sample wt/vol: 000030.2(g)
Date Analyzed: 12/20/2012 16:08
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.: 96803
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-95-3	Nitrobenzene	232		33	9.9
87-86-5	Pentachlorophenol	260		33	9.9
85-01-8	Phenanthrene	255		33	9.9
119-61-9	Benzophenone	283		33	9.9
108-95-2	Phenol	250		33	9.9
129-00-0	Pyrene	239		33	9.9
62-75-9	N-Nitrosodimethylamine	194		33	9.9
86-74-8	Carbazole	226		33	9.9
90-12-0	1-Methylnaphthalene	486		33	9.9
106-44-5	4-Methylphenol	515		33	9.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	90		30-130
367-12-4	2-Fluorophenol	81		30-130
4165-60-0	Nitrobenzene-d5	87		30-130
4165-62-2	Phenol-d5	97		30-130
321-60-8	2-Fluorobiphenyl	96		30-130
1718-51-0	p-Terphenyl-d14	88		30-130

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3204.D
Lims ID: LCSD 480-96561/3-A Client ID:
Inject. Date: 20-Dec-2012 16:08:30 Dil. Factor: 1.0000
Sample Type: LCSD
Sample ID: 480-0017736-014
Misc. Info.:
Operator: ANM Instrument ID: HP5973X
Injection Vol: 1.0 ul ALS Bottle#: 16
Lims Batch ID: 96803 Lims Sample ID: 14
Detector: MS SCAN

Method: \\Bufchrom\ChromData\HP5973X\20121220-17736.b\X-8270LL.m
Last Update: 09-Mar-2013 09:29:35 Calib Date: 18-Dec-2012 14:44:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3139.D
Limit Group: MB - 8270RCP_MCP ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: RXI-5Sil MS Column Dia: 0.25 mm
Process Host: XAWRK034

First Level Reviewer: mckernar Date: 20-Dec-2012 16:46:11

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.556	6.570	-0.014	84	198182	5.00	
* 2 Naphthalene-d8	136	8.448	8.439	0.009	97	746613	5.00	
* 3 Acenaphthene-d10	164	11.092	11.064	0.028	89	459413	5.00	
* 4 Phenanthrene-d10	188	13.099	13.080	0.019	95	686463	5.00	
* 5 Chrysene-d12	240	15.748	15.734	0.014	95	479631	5.00	
* 6 Perylene-d12	264	17.027	17.013	0.014	96	553861	5.00	
$ 7 2-Fluorophenol	112	4.682	4.682	0.0	1	73015	1.62	
$ 8 Phenol-d5	99	6.080	6.090	-0.010	59	106618	1.95	
$ 9 Nitrobenzene-d5	82	7.383	7.393	-0.010	76	97455	1.74	
$ 10 2-Fluorobiphenyl	172	10.103	10.075	0.028	93	221763	1.92	
$ 11 2,4,6-Tribromophenol	330	12.262	12.229	0.033	51	22779	1.80	
$ 12 p-Terphenyl-d14	244	14.783	14.759	0.024	94	162571	1.76	
19 N-Nitrosodimethylamine	42	2.813	2.766	0.047	65	212559	5.87	
20 Pyridine	52	2.884	2.837	0.047	75	169080	4.60	
21 Benzaldehyde	77	5.923	5.938	-0.015	88	296077	7.62	
23 Aniline	93	6.090	6.104	-0.014	93	518754	7.15	
22 Phenol	94	6.099	6.109	-0.010	38	454888	7.54	
24 Bis(2-chloroethyl)ether	93	6.185	6.204	-0.019	98	322594	6.79	
25 2-Chlorophenol	128	6.256	6.270	-0.014	96	376625	7.34	
26 1,3-Dichlorobenzene	146	6.465	6.484	-0.019	97	392039	6.16	
27 1,4-Dichlorobenzene	146	6.579	6.594	-0.015	71	398352	6.27	
29 1,2-Dichlorobenzene	146	6.798	6.813	-0.015	85	379721	6.40	
28 Benzyl alcohol	108	6.798	6.813	-0.015	1	71809	4.32	M
31 2-Methylphenol	108	6.984	6.993	-0.009	73	310622	7.21	
32 2,2'-oxybis[1-chloropropane]	45	6.979	6.998	-0.019	67	487028	6.30	
33 Acetophenone	105	7.169	7.174	-0.005	95	1198766	16.3	
34 N-Nitrosodi-n-propylamine	70	7.179	7.183	-0.004	94	264347	7.16	
36 4-Methylphenol	108	7.221	7.231	-0.010	82	678374	15.5	
37 Hexachloroethane	117	7.288	7.298	-0.010	94	164717	6.52	
38 Nitrobenzene	77	7.416	7.421	-0.005	83	406816	7.00	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
40 Isophorone	82	7.778	7.778	0.0	75	698441	7.31	
41 2-Nitrophenol	139	7.892	7.892	0.0	89	191140	7.23	
43 2,4-Dimethylphenol	107	8.011	8.001	0.010	86	374486	7.51	
42 o,o',o''-Triethylphosphorothioat	198	8.087	8.055	0.032	86	217668	0	
45 Bis(2-chloroethoxy)methane	93	8.130	8.125	0.005	99	402482	7.11	
44 Benzoic acid	105	8.196	8.177	0.019	1	316507	11.4	M
47 2,4-Dichlorophenol	162	8.296	8.277	0.019	81	301059	7.42	
48 1,2,4-Trichlorobenzene	180	8.372	8.363	0.009	95	335898	6.73	
49 Naphthalene	128	8.482	8.472	0.010	93	1088685	6.58	
51 4-Chloroaniline	127	8.615	8.596	0.019	97	375350	6.27	
52 Hexachlorobutadiene	225	8.677	8.662	0.015	84	179723	6.59	
54 Caprolactam	113	9.157	9.129	0.028	68	137902	9.33	M
55 4-Chloro-3-methylphenol	107	9.414	9.385	0.029	96	371865	8.29	
56 2-Methylnaphthalene	142	9.533	9.509	0.024	77	765115	6.60	
57 1-Methylnaphthalene	142	9.680	9.656	0.024	86	1567972	14.7	
58 Hexachlorocyclopentadiene	237	9.766	9.742	0.024	71	99101	6.07	
59 1,2,4,5-Tetrachlorobenzene	216	9.789	9.761	0.028	92	786304	18.2	
60 2,4,6-Trichlorophenol	196	9.999	9.970	0.029	90	218355	8.23	
61 2,4,5-Trichlorophenol	196	10.089	10.056	0.033	85	197131	7.68	
62 1,1'-Biphenyl	154	10.246	10.218	0.028	99	1166804	8.78	
63 2-Chloronaphthalene	162	10.265	10.265	0.0	92	713029	6.86	
64 Phenyl ether	170	10.412	10.384	0.028	91	625585	8.66	
65 2-Nitroaniline	65	10.469	10.436	0.033	81	254819	8.37	
66 1,4-Dinitrobenzene	75	10.702	10.665	0.037	82	155751	0	
67 Dimethyl phthalate	163	10.750	10.722	0.028	93	917801	7.72	
68 2,6-Dinitrotoluene	165	10.836	10.807	0.029	83	209098	3.88	
69 Acenaphthylene	152	10.883	10.850	0.033	91	1233833	7.68	
70 3-Nitroaniline	138	11.107	11.069	0.038	76	189888	7.09	M
71 Acenaphthene	153	11.140	11.112	0.028	90	758773	6.78	
72 2,4-Dinitrophenol	184	11.297	11.240	0.057	83	29619	3.51	
73 Dibenzofuran	168	11.411	11.378	0.033	98	1054009	7.72	
74 2,4-Dinitrotoluene	165	11.454	11.416	0.038	94	251283	7.30	
75 4-Nitrophenol	109	11.544	11.454	0.090	29	25157	1.09	
76 2,3,4,6-Tetrachlorophenol	232	11.630	11.597	0.033	83	364633	17.7	
78 Diethyl phthalate	149	11.801	11.777	0.024	92	994024	7.64	
79 Fluorene	166	11.910	11.882	0.028	82	890229	7.13	
80 4-Chlorophenyl phenyl ether	204	11.929	11.901	0.028	90	398546	7.21	
81 4-Nitroaniline	138	12.025	11.982	0.042	81	159915	5.56	
82 4,6-Dinitro-2-methylphenol	198	12.053	12.010	0.043	56	119542	6.68	
83 N-Nitrosodiphenylamine	169	12.101	12.077	0.024	98	700845	4.39	
16 1,2-Diphenylhydrazine	77	12.143	12.120	0.023	95	2125634	20.6	E
85 Azobenzene	77	12.143	12.120	0.023	94	2125634	20.6	E
86 Benzophenone	105	12.167	12.144	0.023	88	932937	8.54	
87 Sulfotepp	322	12.338	12.297	0.041	77	182140	0	
88 Phorate	75	12.491	12.454	0.037	88	604075	0	
89 4-Bromophenyl phenyl ether	248	12.571	12.548	0.023	86	215166	8.36	
91 Hexachlorobenzene	284	12.633	12.610	0.023	77	207844	7.67	
90 Dimethoate	87	12.724	12.668	0.056	88	333707	0	
93 Atrazine	200	12.814	12.800	0.014	84	276950	8.01	
94 Pentachlorophenol	266	12.914	12.885	0.029	71	97525	7.85	
97 Phenanthrene	178	13.128	13.109	0.019	89	1179948	7.71	
96 Disulfoton	88	13.128	13.120	0.008	74	581325	0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
98 Anthracene	178	13.190	13.171	0.019	95	1220264	7.83	
99 Carbazole	167	13.399	13.380	0.019	97	986852	6.83	
100 Methyl parathion	109	13.556	13.543	0.013	87	281244	0	
102 Di-n-butyl phthalate	149	13.784	13.765	0.019	97	1400268	8.36	
103 Ethyl Parathion	97	13.965	14.003	-0.038	79	181368	0	
104 Fluoranthene	202	14.407	14.388	0.019	96	936405	6.18	
106 Pyrene	202	14.631	14.607	0.024	98	928070	7.22	
107 Famphur	218	15.177	15.168	0.009	82	369855	0	
108 Butyl benzyl phthalate	149	15.225	15.211	0.014	92	520486	7.32	
109 3,3'-Dichlorobenzidine	252	15.720	15.705	0.015	70	315314	7.32	
110 Bis(2-ethylhexyl) phthalate	149	15.720	15.710	0.010	96	750895	7.68	
111 Benzo[a]anthracene	228	15.734	15.720	0.014	96	866238	8.38	
112 Chrysene	228	15.772	15.753	0.019	91	923615	7.88	
113 Di-n-octyl phthalate	149	16.257	16.248	0.009	97	1388456	9.00	
114 Benzo[b]fluoranthene	252	16.666	16.657	0.009	93	1038426	8.07	
115 Benzo[k]fluoranthene	252	16.694	16.680	0.014	98	1209318	9.12	
116 Benzo[a]pyrene	252	16.975	16.961	0.014	70	930304	7.48	
118 Dibenz(a,h)anthracene	278	18.126	18.107	0.019	56	586768	5.21	
117 Indeno[1,2,3-cd]pyrene	276	18.121	18.107	0.014	94	648726	4.89	
119 Benzo[g,h,i]perylene	276	18.440	18.421	0.019	90	514707	4.65	
S 121 3-Methylphenol	1		0.000					

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

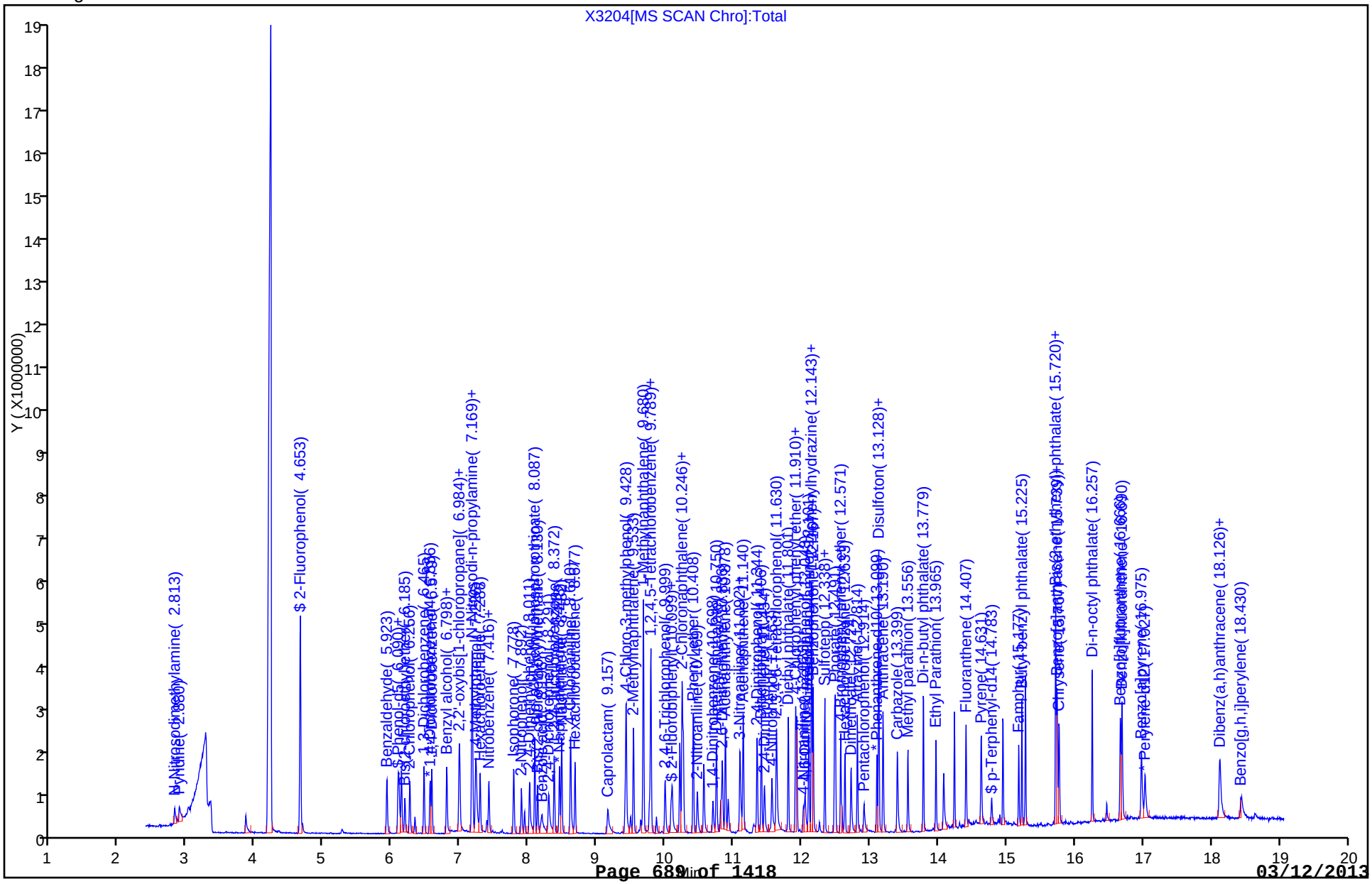
Review Flags
M - Manually Integrated

Report Date: 09-Mar-2013 09:29:38 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3204.D		
Injection Date:	20-Dec-2012 16:08:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96803	Lims Sample ID:	14
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Y Scaling:



Manual Integration/User Assign Peak Report

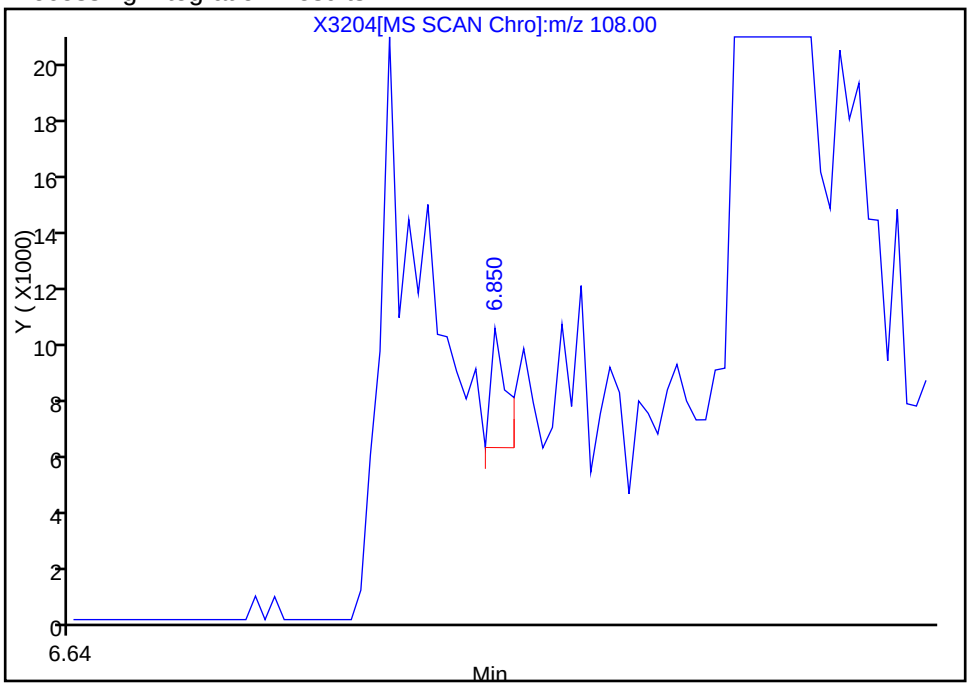
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3204.D		
Injection Date:	20-Dec-2012 16:08:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96803	Lims Sample ID:	14
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

28 Benzyl alcohol, Signal: 1, m/z: 108.0 Type: quant, RT: 6.81

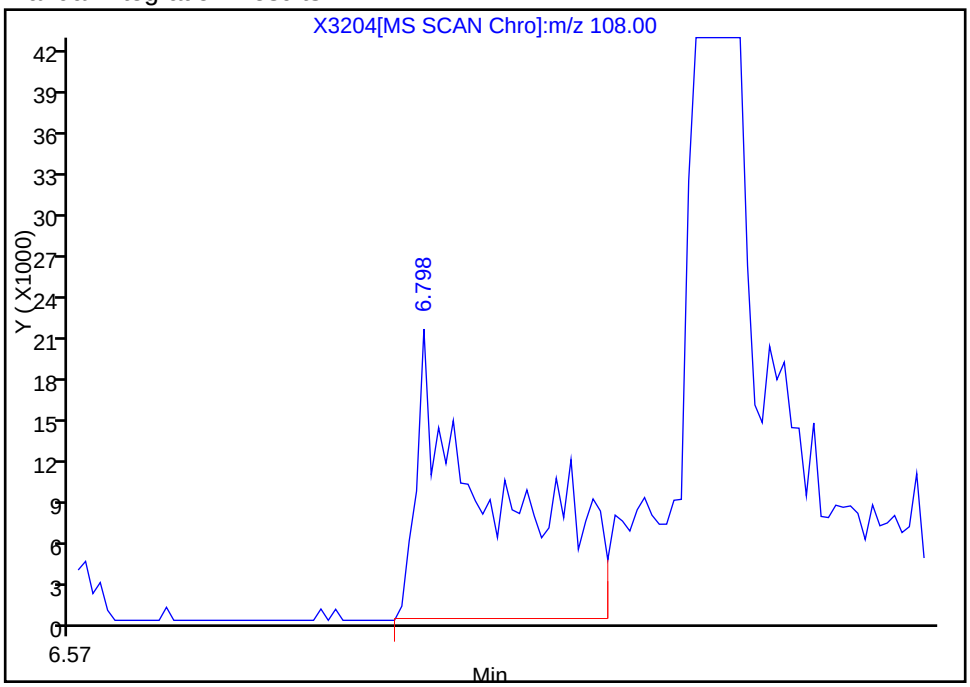
Processing Integration Results

RT: 6.85
Response: 2249
Amount: 0.143666



Manual Integration Results

RT: 6.80
Response: 71809
Amount: 4.320980



Reviewer: mckernar, 20-Dec-2012 16:46:11
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

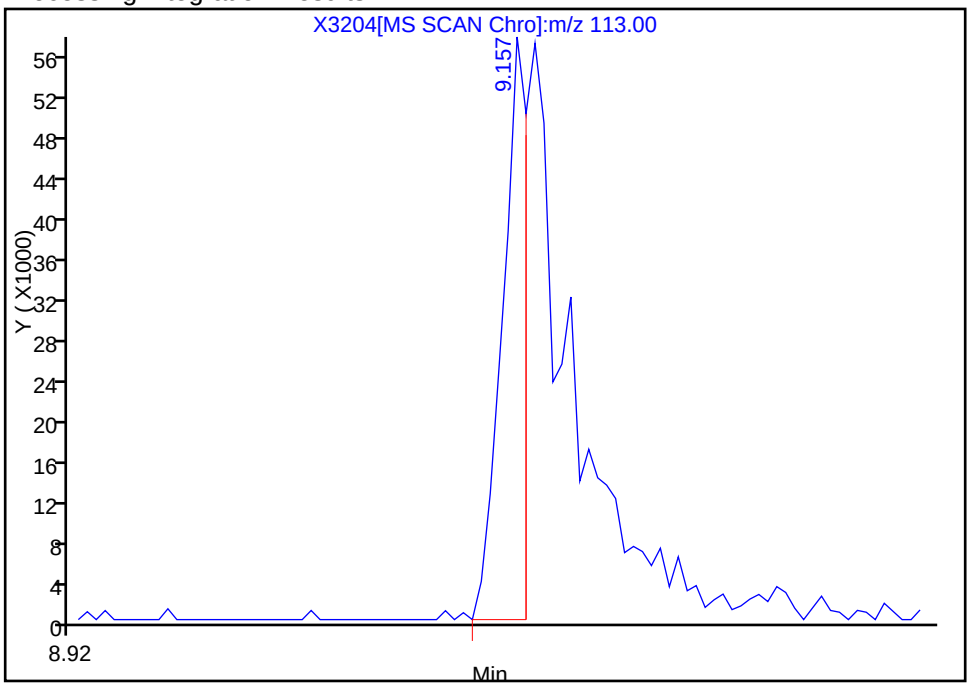
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3204.D		
Injection Date:	20-Dec-2012 16:08:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96803	Lims Sample ID:	14
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

54 Caprolactam, Signal: 1, m/z: 113.0 Type: quant, RT: 9.13

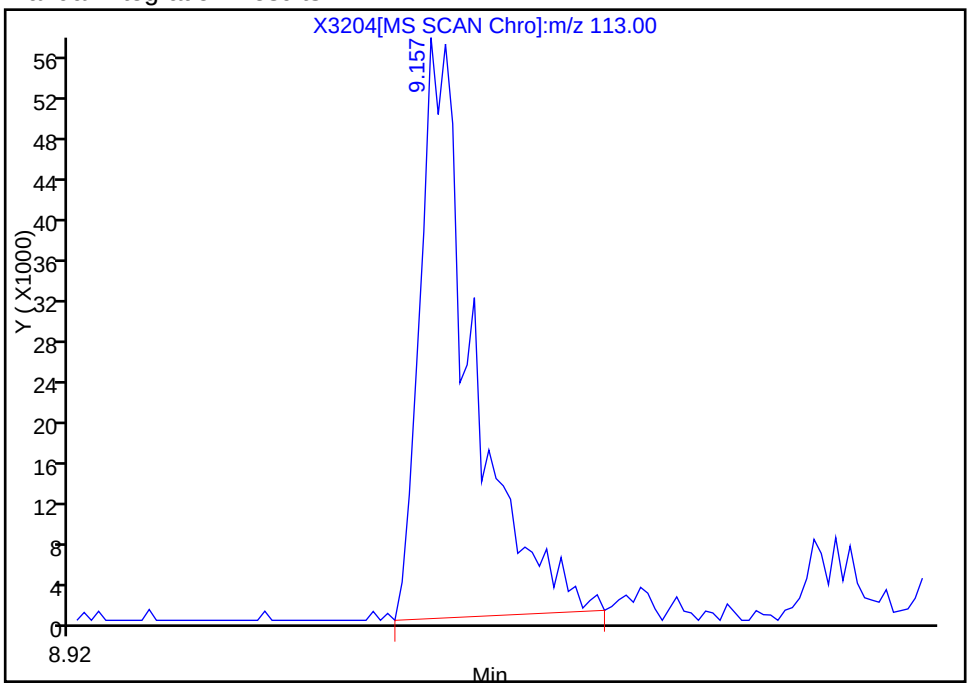
Processing Integration Results

RT: 9.16
Response: 53342
Amount: 3.283207



Manual Integration Results

RT: 9.16
Response: 137902
Amount: 9.334970



Reviewer: mckernar, 20-Dec-2012 16:46:11
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

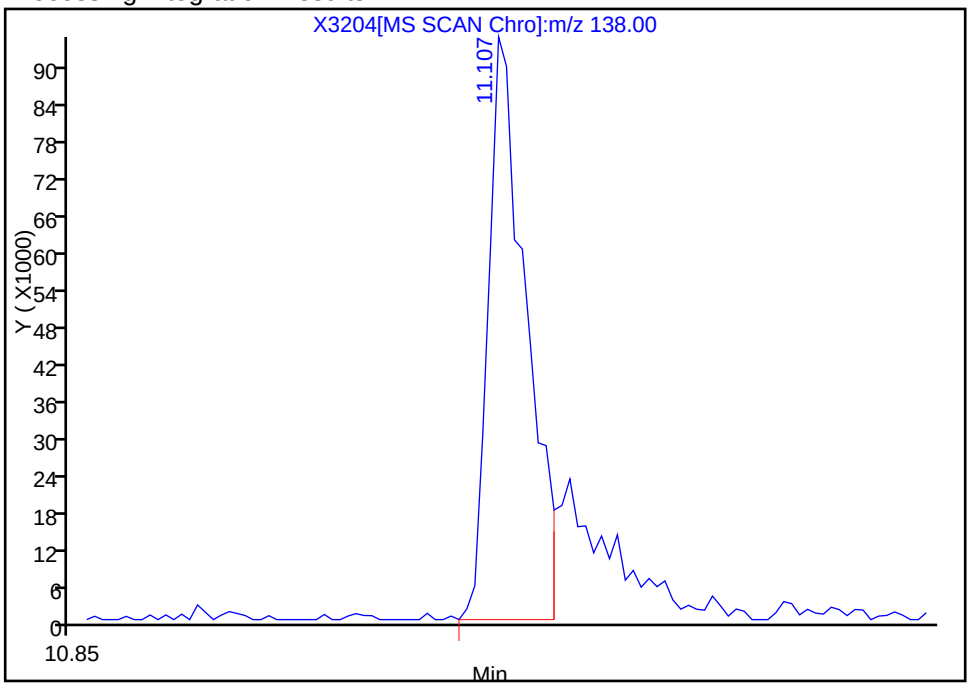
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3204.D		
Injection Date:	20-Dec-2012 16:08:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96803	Lims Sample ID:	14
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

70 3-Nitroaniline, Signal: 1, m/z: 138.0 Type: quant, RT: 11.07

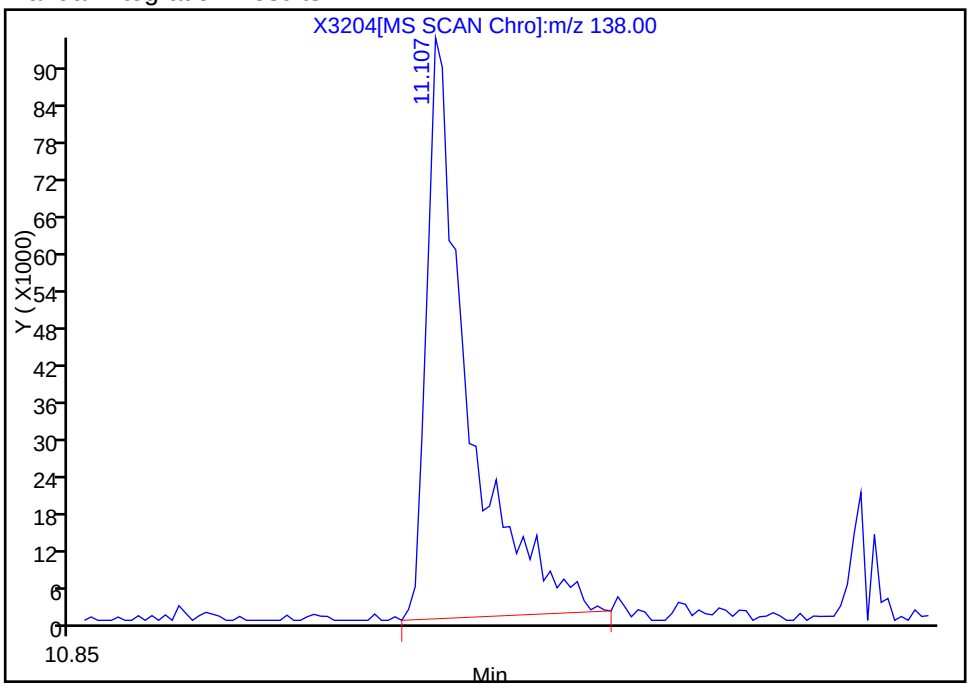
Processing Integration Results

RT: 11.11
Response: 149043
Amount: 5.120291



Manual Integration Results

RT: 11.11
Response: 189888
Amount: 7.094092



Reviewer: mckernar, 20-Dec-2012 16:46:11
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

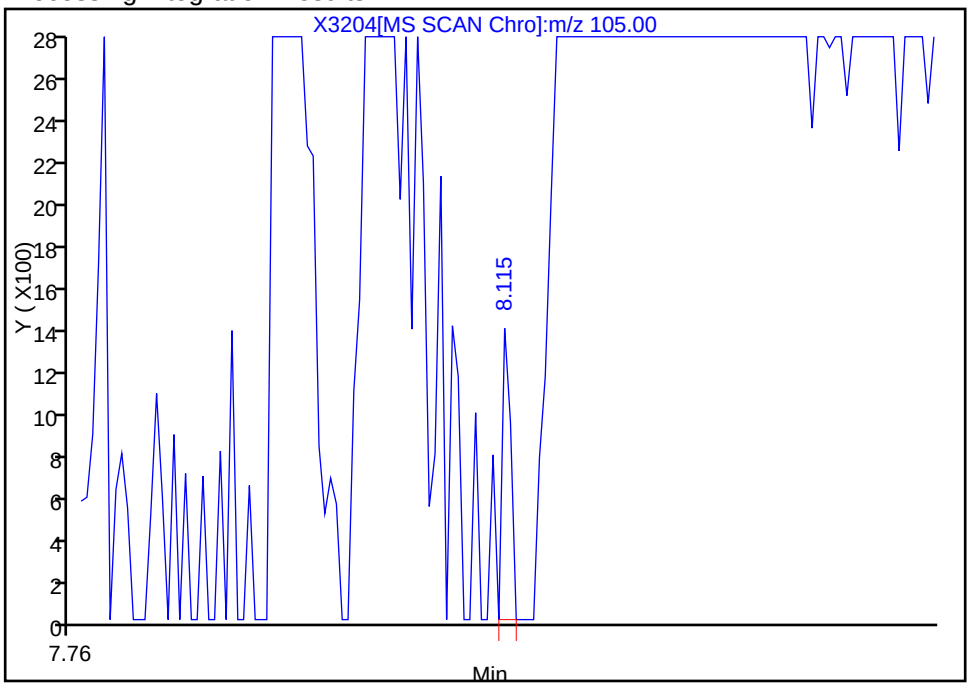
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121220-17736.b\X3204.D		
Injection Date:	20-Dec-2012 16:08:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96803	Lims Sample ID:	14
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

44 Benzoic acid, Signal: 1, m/z: 105.0 Type: quant, RT: 8.18

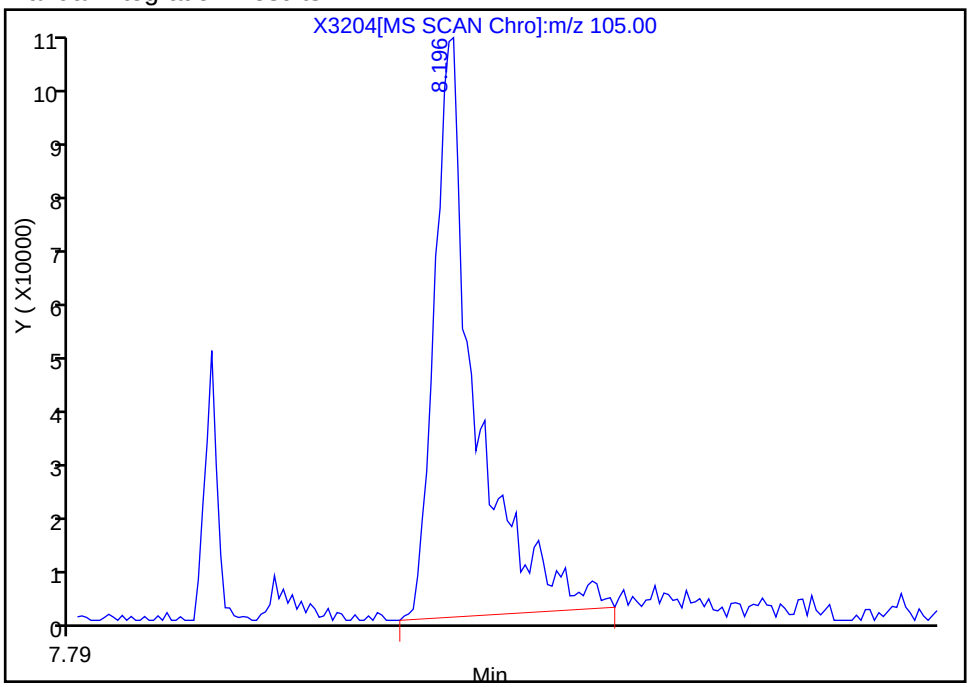
Processing Integration Results

RT: 8.12
Response: 666
Amount: 0.019995



Manual Integration Results

RT: 8.20
Response: 316507
Amount: 11.352989



Reviewer: mckernar, 20-Dec-2012 16:46:11
Audit Action: Manually Integrated
Audit Reason: Assign Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Instrument ID: HP5973X Start Date: 12/18/2012 11:04

Analysis Batch Number: 96347 End Date: 12/18/2012 21:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-96347/1		12/18/2012 11:04	1	X3130.D	RXI-5Sil MS 0.25(mm)
IC 480-96347/2		12/18/2012 11:20	1	X3131.D	RXI-5Sil MS 0.25(mm)
IC 480-96347/3		12/18/2012 11:45	1	X3132.D	RXI-5Sil MS 0.25(mm)
IC 480-96347/4		12/18/2012 12:11	1	X3133.D	RXI-5Sil MS 0.25(mm)
IC 480-96347/5		12/18/2012 12:36	1	X3134.D	RXI-5Sil MS 0.25(mm)
ICIS 480-96347/6		12/18/2012 13:01	1	X3135.D	RXI-5Sil MS 0.25(mm)
IC 480-96347/7		12/18/2012 13:27	1	X3136.D	RXI-5Sil MS 0.25(mm)
IC 480-96347/8		12/18/2012 13:52	1	X3137.D	RXI-5Sil MS 0.25(mm)
IC 480-96347/9		12/18/2012 14:18	1	X3138.D	RXI-5Sil MS 0.25(mm)
IC 480-96347/10		12/18/2012 14:44	1	X3139.D	RXI-5Sil MS 0.25(mm)
ICV 480-96347/11		12/18/2012 15:10	1		RXI-5Sil MS 0.25(mm)
CCVIS 480-96347/13		12/18/2012 16:53	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/18/2012 17:19	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/18/2012 17:44	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/18/2012 18:10	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/18/2012 18:35	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/18/2012 19:00	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/18/2012 19:26	20		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/18/2012 19:51	20		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/18/2012 20:16	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/18/2012 20:42	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/18/2012 21:07	1		RXI-5Sil MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Instrument ID: HP5973X Start Date: 12/20/2012 10:20

Analysis Batch Number: 96803 End Date: 12/20/2012 20:48

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-96803/1		12/20/2012 10:20	1	X3190.D	RXI-5Sil MS 0.25(mm)
CCVIS 480-96803/2		12/20/2012 10:36	1	X3191.D	RXI-5Sil MS 0.25(mm)
ZZZZZ		12/20/2012 11:01	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/20/2012 11:52	10		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/20/2012 12:17	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/20/2012 12:43	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/20/2012 13:08	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/20/2012 13:34	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/20/2012 14:26	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/20/2012 14:51	20		RXI-5Sil MS 0.25(mm)
MB 480-96561/1-A		12/20/2012 15:17	1	X3202.D	RXI-5Sil MS 0.25(mm)
LCS 480-96561/2-A		12/20/2012 15:42	1	X3203.D	RXI-5Sil MS 0.25(mm)
LCSD 480-96561/3-A		12/20/2012 16:08	1	X3204.D	RXI-5Sil MS 0.25(mm)
ZZZZZ		12/20/2012 16:33	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/20/2012 16:58	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/20/2012 17:24	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/20/2012 17:49	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/20/2012 18:15	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/20/2012 18:40	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/20/2012 19:06	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/20/2012 19:31	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/20/2012 19:57	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/20/2012 20:22	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/20/2012 20:48	1		RXI-5Sil MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Instrument ID: HP5973X Start Date: 12/21/2012 09:57

Analysis Batch Number: 97046 End Date: 12/21/2012 15:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-97046/1		12/21/2012 09:57	1	X3221.D	RXI-5Sil MS 0.25(mm)
CCVIS 480-97046/2		12/21/2012 10:13	1	X3222.D	RXI-5Sil MS 0.25(mm)
ZZZZZ		12/21/2012 10:38	100		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/21/2012 11:04	10		RXI-5Sil MS 0.25(mm)
ZZZZZ		12/21/2012 11:54	20		RXI-5Sil MS 0.25(mm)
480-30406-1	OC-SD-SD-503-XXX	12/21/2012 12:20	10	X3227.D	RXI-5Sil MS 0.25(mm)
480-30406-2	OC-SD-SD-504-XXX	12/21/2012 12:45	10	X3228.D	RXI-5Sil MS 0.25(mm)
480-30406-3	OC-SD-SD-501-XXX	12/21/2012 13:11	10	X3229.D	RXI-5Sil MS 0.25(mm)
480-30406-4	OC-SD-SD-502-XXX	12/21/2012 13:37	10	X3230.D	RXI-5Sil MS 0.25(mm)
ZZZZZ		12/21/2012 15:08	500		RXI-5Sil MS 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Batch Number: 96561 Batch Start Date: 12/19/12 09:30 Batch Analyst: Evers, David

Batch Method: 3546 Batch End Date: 12/19/12 15:32

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	O_8270LLspike 00005	O_8270LLsurr 00002	O_8270MCPAPIX 00001	O_OlinLCSspik 00001
MB 480-96561/1		3546, 8270D		000030.4 g	1 mL		1 mL		
LCS 480-96561/2		3546, 8270D		000030.2 g	1 mL	1 mL	1 mL	0.1 mL	0.1 mL
LCSD 480-96561/3		3546, 8270D		000030.2 g	1 mL	1 mL	1 mL	0.1 mL	0.1 mL
480-30406-D-1	OC-SD-SD-503-XXX	3546, 8270D	T	000030.1 g	1 mL		1 mL		
480-30406-D-2	OC-SD-SD-504-XXX	3546, 8270D	T	000030.8 g	1 mL		1 mL		
480-30406-C-3	OC-SD-SD-501-XXX	3546, 8270D	T	000030.6 g	1 mL		1 mL		
480-30406-C-4	OC-SD-SD-502-XXX	3546, 8270D	T	000030.3 g	1 mL		1 mL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	O8270full#2 00001	AnalysisComment				
MB 480-96561/1		3546, 8270D							
LCS 480-96561/2		3546, 8270D		0.1 mL					
LCSD 480-96561/3		3546, 8270D		0.1 mL					
480-30406-D-1	OC-SD-SD-503-XXX	3546, 8270D	T		Decanted				
480-30406-D-2	OC-SD-SD-504-XXX	3546, 8270D	T		Decanted				
480-30406-C-3	OC-SD-SD-501-XXX	3546, 8270D	T		Decanted				
480-30406-C-4	OC-SD-SD-502-XXX	3546, 8270D	T		Decanted				

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 Buffalo Job No.: 480-30406-1

SDG No.:

Batch Number: 96561 Batch Start Date: 12/19/12 09:30 Batch Analyst: Evers, David

Batch Method: 3546 Batch End Date: 12/19/12 15:32

Batch Notes	
Acetone Lot #	K41E20
Balance ID	14552245
Person's name who did the concentration	DLE
Final Concentrator Volume	1 mL
MeCL2 Lot #	0000026554
MeCl2/Acetone Lot #	0000026554/K41E20
Microwave Start Time	10:00
Microwave Stop Time	10:50
Na2SO4 Lot Number	27862008
Ottawa Sand Lot #	89090
Person's name who did the prep	DLE CM
Person who witnessed spiking	DLE

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.

Method 7199

Chromium, Hexavalent (IC) by Method 7199

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Irvine Job No.: 480-30406-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: Info 2_TAIIRV167_Hex

Lab ID: LCS 440-75585/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
Cr (VI)	15.9	10.5	66	65-110	

Column to be used to flag recovery and RPD values

FORM III 7199

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: TestAmerica Irvine Job No.: 480-30406-1

SDG No.:

Lab File ID: Info 2_TAIIRV167_Hex Lab Sample ID: MB 440-75585/1-A

Matrix: Solid Date Extracted: 12/27/2012 09:26

Instrument ID: IC-16 Date Analyzed: 12/31/2012 13:27

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 440-75585/2-A	Info 2_TAIIRV167_Hex Chrom_20121231-135226.d	12/31/2012 13:39
OC-SD-SD-503-XXX	480-30406-1	Info 2_TAIIRV167_Hex Chrom_20130101-203820.d	01/01/2013 20:25
OC-SD-SD-504-XXX	480-30406-2	Info 2_TAIIRV167_Hex Chrom_20130101-205059.d	01/01/2013 20:38
OC-SD-SD-501-XXX	480-30406-3	Info 2_TAIIRV167_Hex Chrom_20130101-210338.d	01/01/2013 20:51
OC-SD-SD-502-XXX	480-30406-4	Info 2_TAIIRV167_Hex Chrom_20130101-211618.d	01/01/2013 21:03

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-30406-1
SDG No.:
Client Sample ID: OC-SD-SD-503-XXX
Lab Sample ID: 480-30406-1
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected: 12/17/2012 14:30
Extraction Method: 3060A
Date Extracted: 12/27/2012 09:26
Sample wt/vol: 1.26(g)
Date Analyzed: 01/01/2013 20:25
Con. Extract Vol.: 50(mL)
Dilution Factor: 10
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture: 36.1
GPC Cleanup:(Y/N) N
Analysis Batch No.: 76481
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
18540-29-9	Cr (VI)	ND		0.31	0.23

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20130101-16934.b\Info 2_TAIIRV167_Hex Chrom_20130101-203820.d		
Lims ID:	480-30406-A-1-A	Client ID:	OC-SD-SD-503-XXX
Inject. Date:	01-Jan-2013 20:25:00	Dil. Factor:	10.0000
Sample Type:	Client		
Sample ID:	440-0016934-021		
Misc. Info.:	440-0016934-021		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	76481	Lims Sample ID:	21
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20130101-203820		
Method:	\\Irvchrom\ChromData\IC16\20130101-16934.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	02-Jan-2013 06:05:47	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK016		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.194	8.262	-0.068	12099	0.1297	

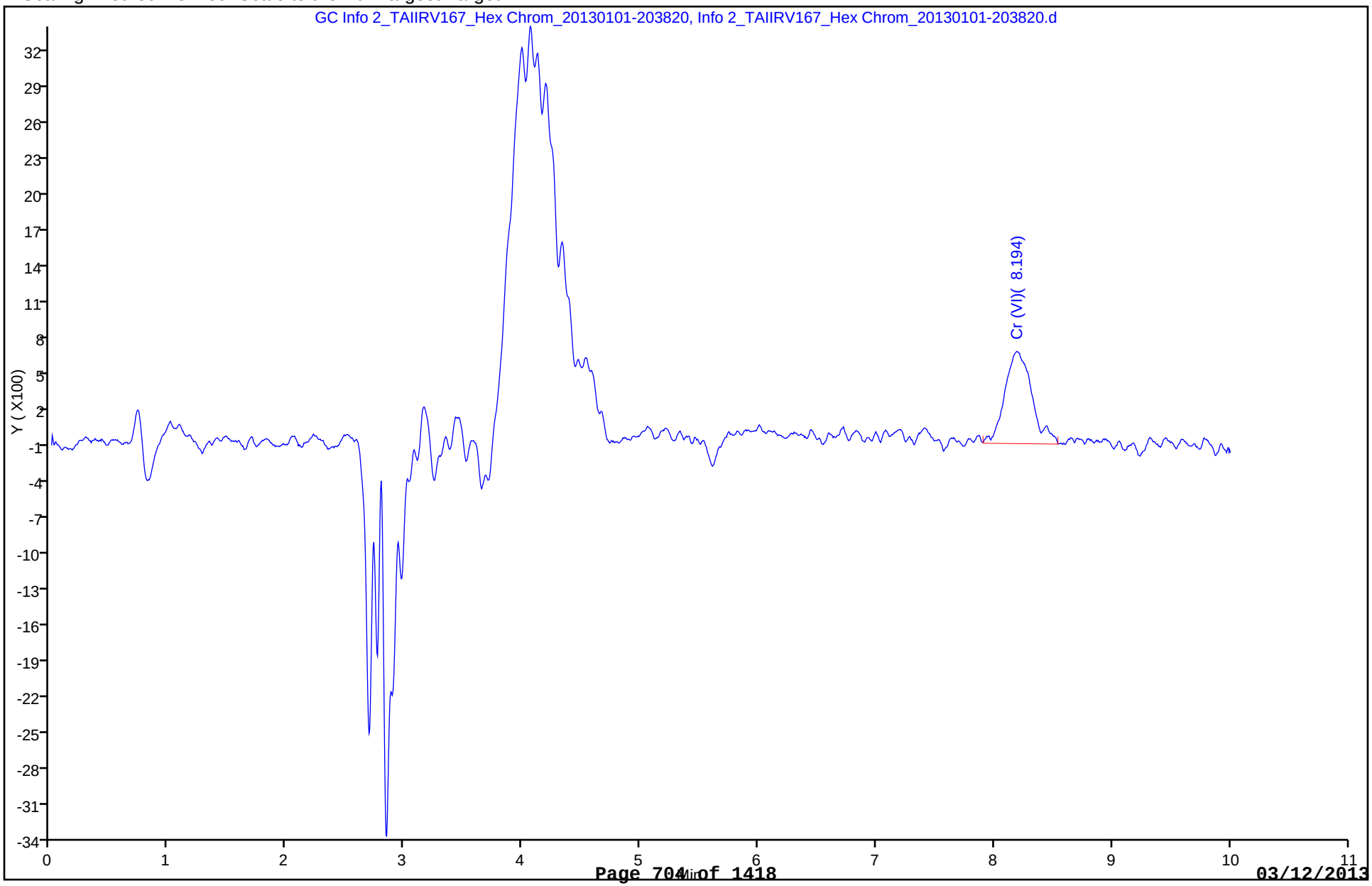
Report Date: 02-Jan-2013 06:05:51 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130101-16934.b\Info 2_TAIIRV167_Hex Chrom_20130101-203820.d

Injection Date:	01-Jan-2013 20:25:00	Limit Group:	IC-7199
Client ID:	OC-SD-SD-503-XXX	Instrument ID:	IC-16
Lims Batch ID:	76481	Lims Sample ID:	21
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-30406-1
SDG No.:
Client Sample ID: OC-SD-SD-504-XXX
Lab Sample ID: 480-30406-2
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected: 12/17/2012 15:00
Extraction Method: 3060A
Date Extracted: 12/27/2012 09:36
Sample wt/vol: 1.25(g)
Date Analyzed: 01/01/2013 20:38
Con. Extract Vol.: 50(mL)
Dilution Factor: 10
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture: 43.7
GPC Cleanup:(Y/N) N
Analysis Batch No.: 76481
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
18540-29-9	Cr (VI)	ND		0.36	0.27

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20130101-16934.b\Info 2_TAIIRV167_Hex Chrom_20130101-205059.d		
Lims ID:	480-30406-A-2-A	Client ID:	OC-SD-SD-504-XXX
Inject. Date:	01-Jan-2013 20:38:00	Dil. Factor:	10.0000
Sample Type:	Client		
Sample ID:	440-0016934-022		
Misc. Info.:	440-0016934-022		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	76481	Lims Sample ID:	22
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20130101-205059		
Method:	\\Irvchrom\ChromData\IC16\20130101-16934.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	02-Jan-2013 06:05:47	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK016		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.153	8.262	-0.109	20237	0.3453	

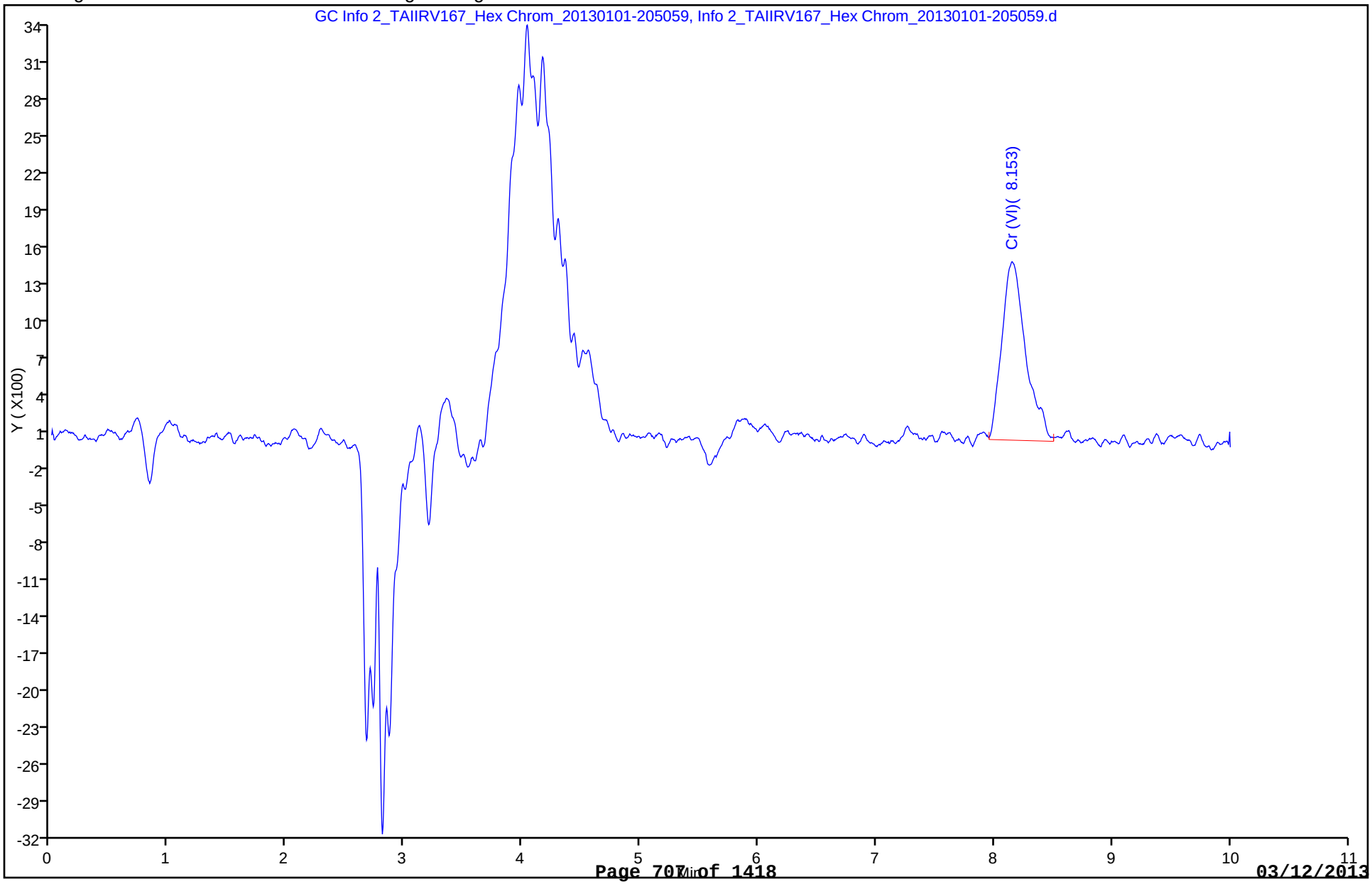
Report Date: 02-Jan-2013 06:05:52 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130101-16934.b\Info 2_TAIIRV167_Hex Chrom_20130101-205059.d

Injection Date:	01-Jan-2013 20:38:00	Limit Group:	IC-7199
Client ID:	OC-SD-SD-504-XXX	Instrument ID:	IC-16
Lims Batch ID:	76481	Lims Sample ID:	22
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-30406-1
SDG No.:
Client Sample ID: OC-SD-SD-501-XXX
Lab Sample ID: 480-30406-3
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected: 12/17/2012 12:15
Extraction Method: 3060A
Date Extracted: 12/27/2012 09:36
Sample wt/vol: 1.26(g)
Date Analyzed: 01/01/2013 20:51
Con. Extract Vol.: 50(mL)
Dilution Factor: 10
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture: 28.5
GPC Cleanup:(Y/N) N
Analysis Batch No.: 76481
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
18540-29-9	Cr (VI)	0.21	J	0.28	0.21

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20130101-16934.b\Info 2_TAIIRV167_Hex Chrom_20130101-210338.d		
Lims ID:	480-30406-A-3-A	Client ID:	OC-SD-SD-501-XXX
Inject. Date:	01-Jan-2013 20:51:00	Dil. Factor:	10.0000
Sample Type:	Client		
Sample ID:	440-0016934-023		
Misc. Info.:	440-0016934-023		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	76481	Lims Sample ID:	23
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20130101-210338		
Method:	\\Irvchrom\ChromData\IC16\20130101-16934.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	02-Jan-2013 06:05:47	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK016		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.132	8.262	-0.130	21724	0.3847	

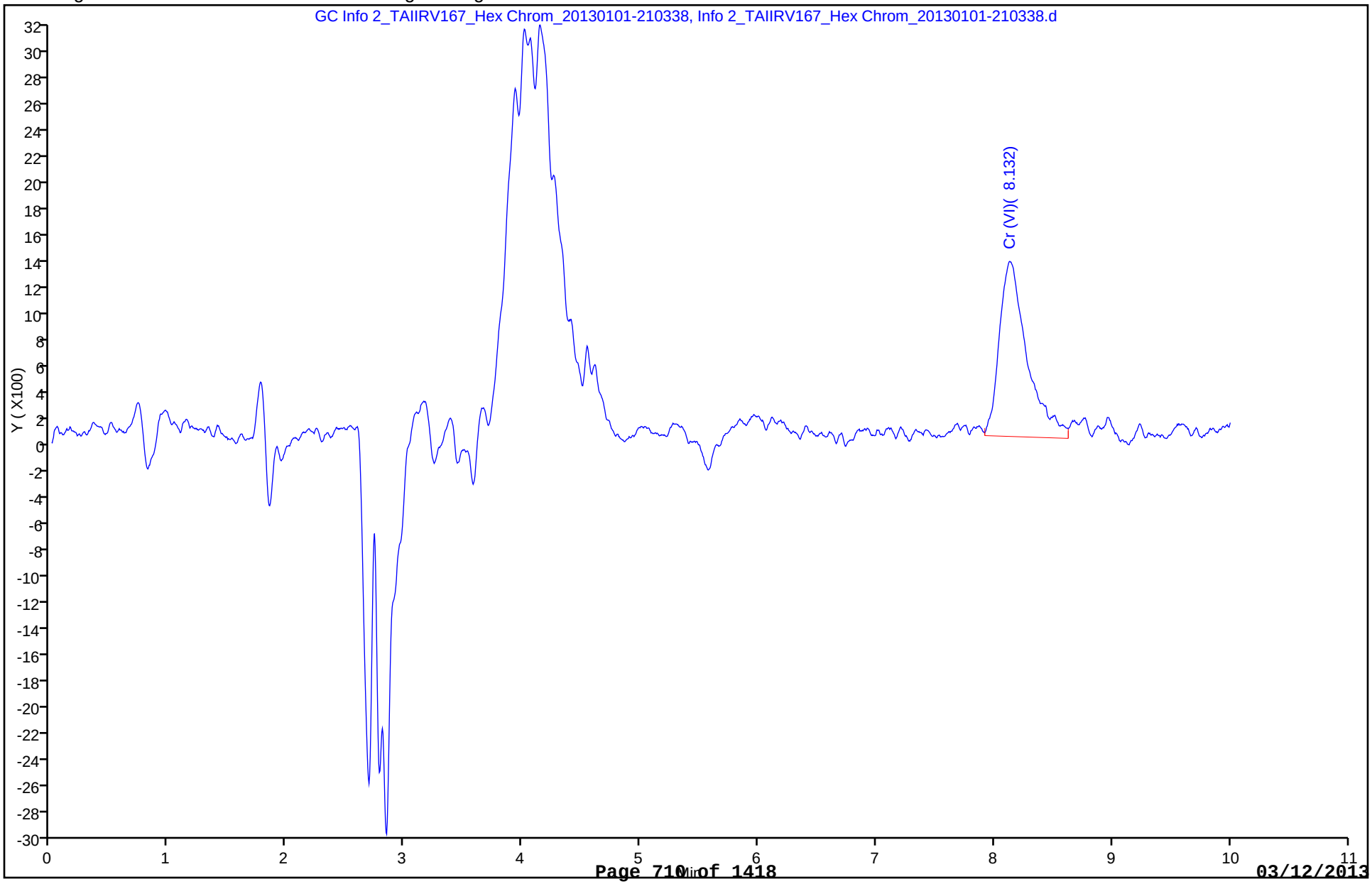
Report Date: 02-Jan-2013 06:05:52 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130101-16934.b\Info 2_TAIIRV167_Hex Chrom_20130101-210338.d

Injection Date:	01-Jan-2013 20:51:00	Limit Group:	IC-7199
Client ID:	OC-SD-SD-501-XXX	Instrument ID:	IC-16
Lims Batch ID:	76481	Lims Sample ID:	23
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-30406-1
SDG No.:
Client Sample ID: OC-SD-SD-502-XXX
Lab Sample ID: 480-30406-4
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected: 12/17/2012 12:45
Extraction Method: 3060A
Date Extracted: 12/27/2012 09:36
Sample wt/vol: 1.24(g)
Date Analyzed: 01/01/2013 21:03
Con. Extract Vol.: 50(mL)
Dilution Factor: 10
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture: 30.6
GPC Cleanup:(Y/N) N
Analysis Batch No.: 76481
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
18540-29-9	Cr (VI)	0.27	J	0.29	0.22

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20130101-16934.b\Info 2_TAIIRV167_Hex Chrom_20130101-211618.d		
Lims ID:	480-30406-A-4-A	Client ID:	OC-SD-SD-502-XXX
Inject. Date:	01-Jan-2013 21:03:00	Dil. Factor:	10.0000
Sample Type:	Client		
Sample ID:	440-0016934-024		
Misc. Info.:	440-0016934-024		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	76481	Lims Sample ID:	24
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20130101-211618		
Method:	\\Irvchrom\ChromData\IC16\20130101-16934.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	02-Jan-2013 06:05:47	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK016		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.127	8.262	-0.135	24592	0.4606	

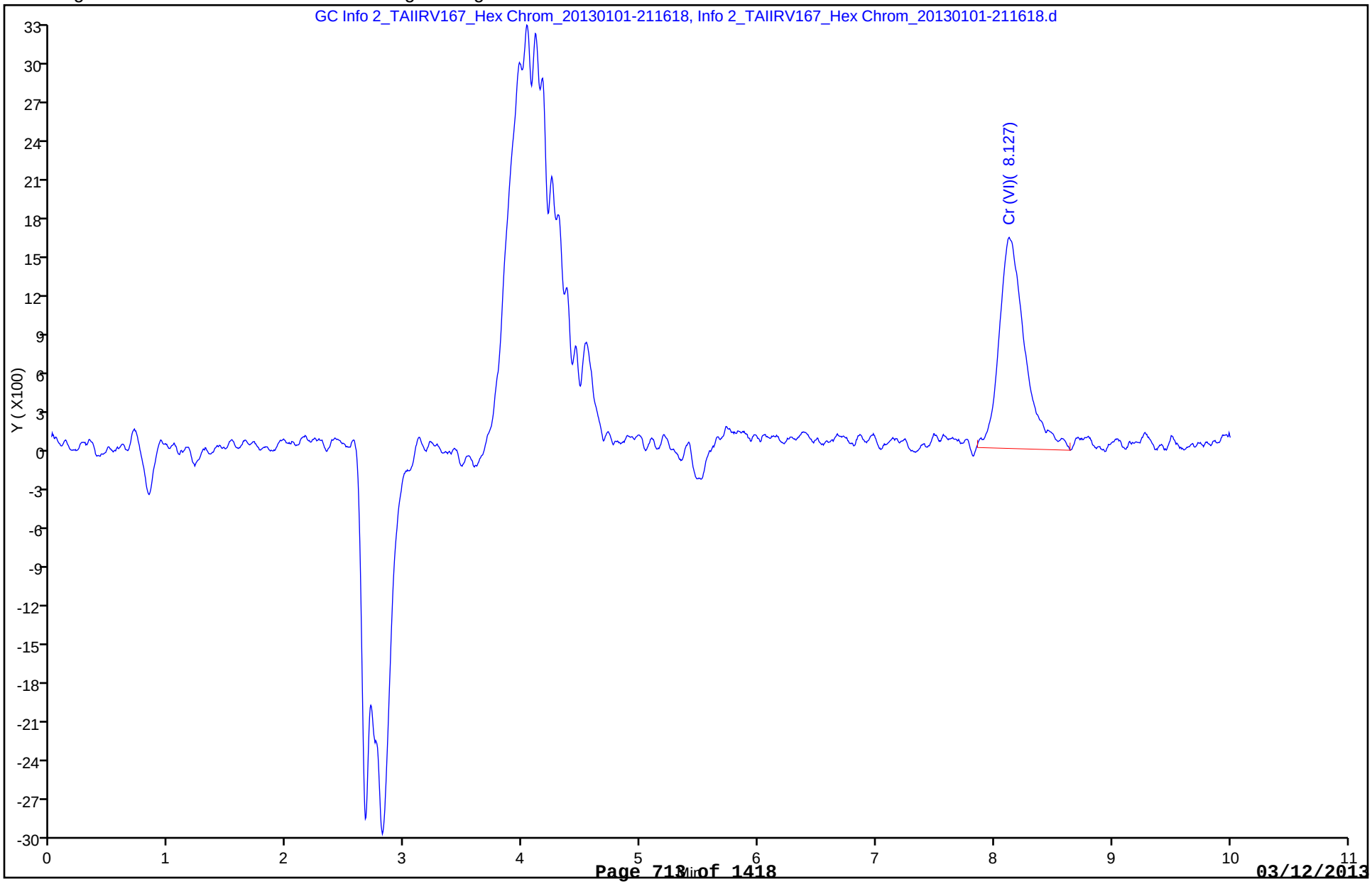
Report Date: 02-Jan-2013 06:05:52 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130101-16934.b\Info 2_TAIIRV167_Hex Chrom_20130101-211618.d

Injection Date:	01-Jan-2013 21:03:00	Limit Group:	IC-7199
Client ID:	OC-SD-SD-502-XXX	Instrument ID:	IC-16
Lims Batch ID:	76481	Lims Sample ID:	24
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Irvine Job No.: 480-30406-1 Analy Batch No.: 75938

SDG No.:

Instrument ID: IC-16 GC Column: AS7 ID: 4(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/28/2012 08:59 Calibration End Date: 12/28/2012 10:27 Calibration ID: 3821

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD2 440-75938/21	Info 2_TAIIRV167_Hex
Level 2	STD3 440-75938/22	Info 2_TAIIRV167_Hex
Level 3	STD4 440-75938/23	Info 2_TAIIRV167_Hex
Level 4	STD5 440-75938/24	Info 2_TAIIRV167_Hex
Level 5	STD6 440-75938/25	Info 2_TAIIRV167_Hex
Level 6	STD7 440-75938/26	Info 2_TAIIRV167_Hex
Level 7	STD8 440-75938/27	Info 2_TAIIRV167_Hex

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
Cr (VI)	8.262	8.277	8.277	8.272	8.282	8.272	8.293				7.848 - 8.675	8.276

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Irvine Job No.: 480-30406-1 Analy Batch No.: 75938

SDG No.:

Instrument ID: IC-16 GC Column: AS7 ID: 4(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/28/2012 08:59 Calibration End Date: 12/28/2012 10:27 Calibration ID: 3821

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD2 440-75938/21	Info 2_TAIIRV167_Hex
Level 2	STD3 440-75938/22	Info 2_TAIIRV167_Hex
Level 3	STD4 440-75938/23	Info 2_TAIIRV167_Hex
Level 4	STD5 440-75938/24	Info 2_TAIIRV167_Hex
Level 5	STD6 440-75938/25	Info 2_TAIIRV167_Hex
Level 6	STD7 440-75938/26	Info 2_TAIIRV167_Hex
Level 7	STD8 440-75938/27	Info 2_TAIIRV167_Hex

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
Cr (VI)	48390 37862	38198 38052	39677 37687	38244	Lin	7203.50272	37748.5571							1.0000		0.9990

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

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Irvine Job No.: 480-30406-1 Analy Batch No.: 75938

SDG No.:

Instrument ID: IC-16 GC Column: AS7 ID: 4(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/28/2012 08:59 Calibration End Date: 12/28/2012 10:27 Calibration ID: 3821

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD2 440-75938/21	Info 2_TAIIRV167_Hex
Level 2	STD3 440-75938/22	Info 2_TAIIRV167_Hex
Level 3	STD4 440-75938/23	Info 2_TAIIRV167_Hex
Level 4	STD5 440-75938/24	Info 2_TAIIRV167_Hex
Level 5	STD6 440-75938/25	Info 2_TAIIRV167_Hex
Level 6	STD7 440-75938/26	Info 2_TAIIRV167_Hex
Level 7	STD8 440-75938/27	Info 2_TAIIRV167_Hex

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		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
Cr (VI)	Lin	14517 2853900	38198 3768733	396772	956106	1893100	0.300 75.0	1.00 100	10.0	25.0	50.0

Curve Type Legend:

Lin = Linear

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-092425.d		
Lims ID:	STD2	Client ID:	
Inject. Date:	28-Dec-2012 09:11:00	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	440-0016809-021		
Misc. Info.:	440-0016809-021		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	75938	Lims Sample ID:	21
Sublist:	chrom-218.6_16*sub1		
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20121228-092425		
Method:	\\Irvchrom\ChromData\IC16\20121228-16809.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	28-Dec-2012 11:08:06	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK024		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.262	8.262	0.0	14517	0.1937	

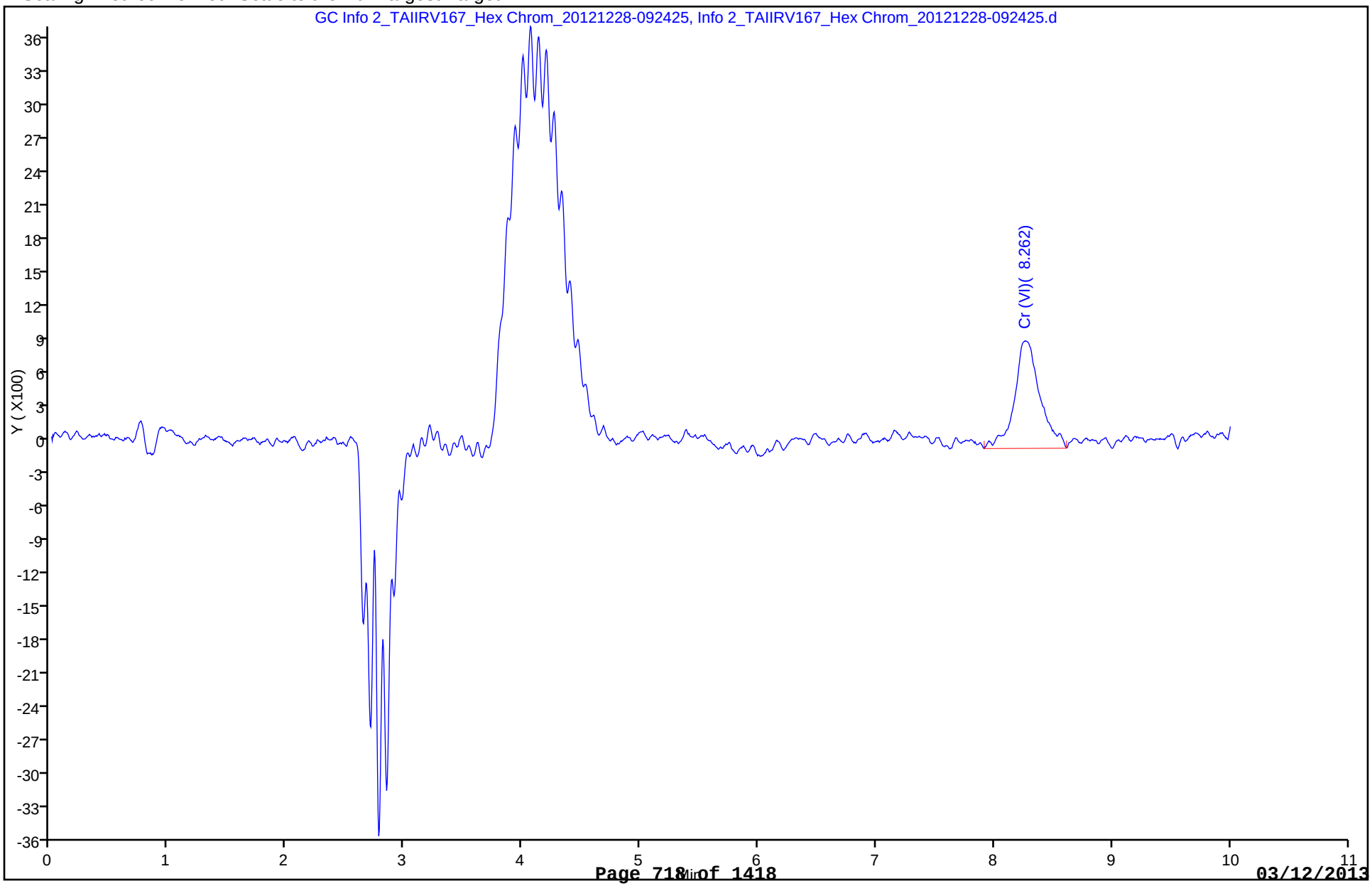
Report Date: 28-Dec-2012 11:08:06 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-092425.d

Injection Date:	28-Dec-2012 09:11:00	Limit Group:	IC-7199
Client ID:		Instrument ID:	IC-16
Lims Batch ID:	75938	Lims Sample ID:	21
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-093704.d		
Lims ID:	STD3	Client ID:	
Inject. Date:	28-Dec-2012 09:24:00	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	440-0016809-022		
Misc. Info.:	440-0016809-022		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	75938	Lims Sample ID:	22
Sublist:	chrom-218.6_16*sub1		
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20121228-093704		
Method:	\\Irvchrom\ChromData\IC16\20121228-16809.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	28-Dec-2012 11:08:07	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK024		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.277	8.262	0.015	38198	0.8211	

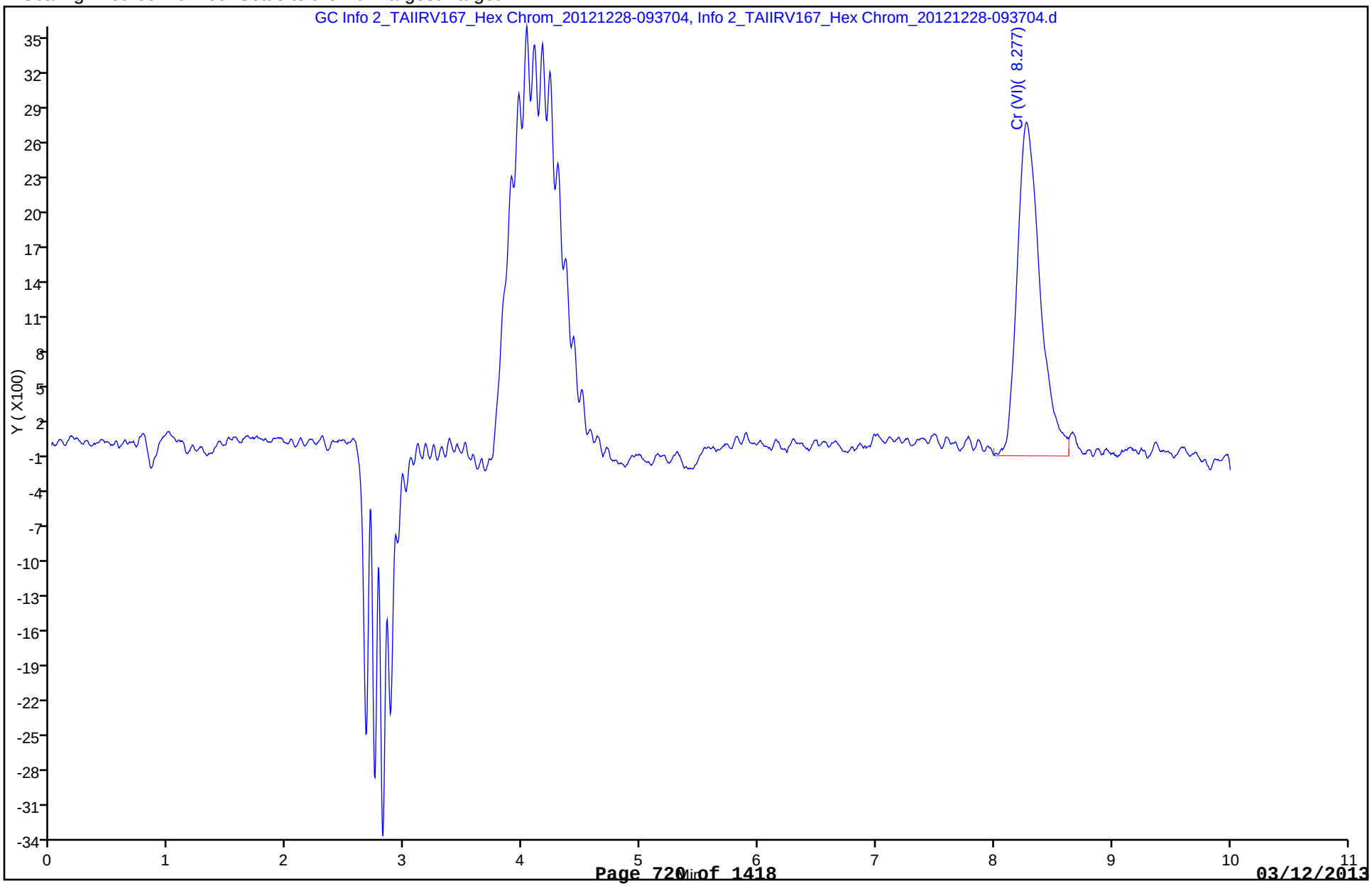
Report Date: 28-Dec-2012 11:08:07 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-093704.d

Injection Date:	28-Dec-2012 09:24:00	Limit Group:	IC-7199
Client ID:		Instrument ID:	IC-16
Lims Batch ID:	75938	Lims Sample ID:	22
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-094945.d		
Lims ID:	STD4	Client ID:	
Inject. Date:	28-Dec-2012 09:37:00	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	440-0016809-023		
Misc. Info.:	440-0016809-023		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	75938	Lims Sample ID:	23
Sublist:	chrom-218.6_16*sub1		
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20121228-094945		
Method:	\\Irvchrom\ChromData\IC16\20121228-16809.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	28-Dec-2012 11:08:07	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK024		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.277	8.262	0.015	396772	10.3	

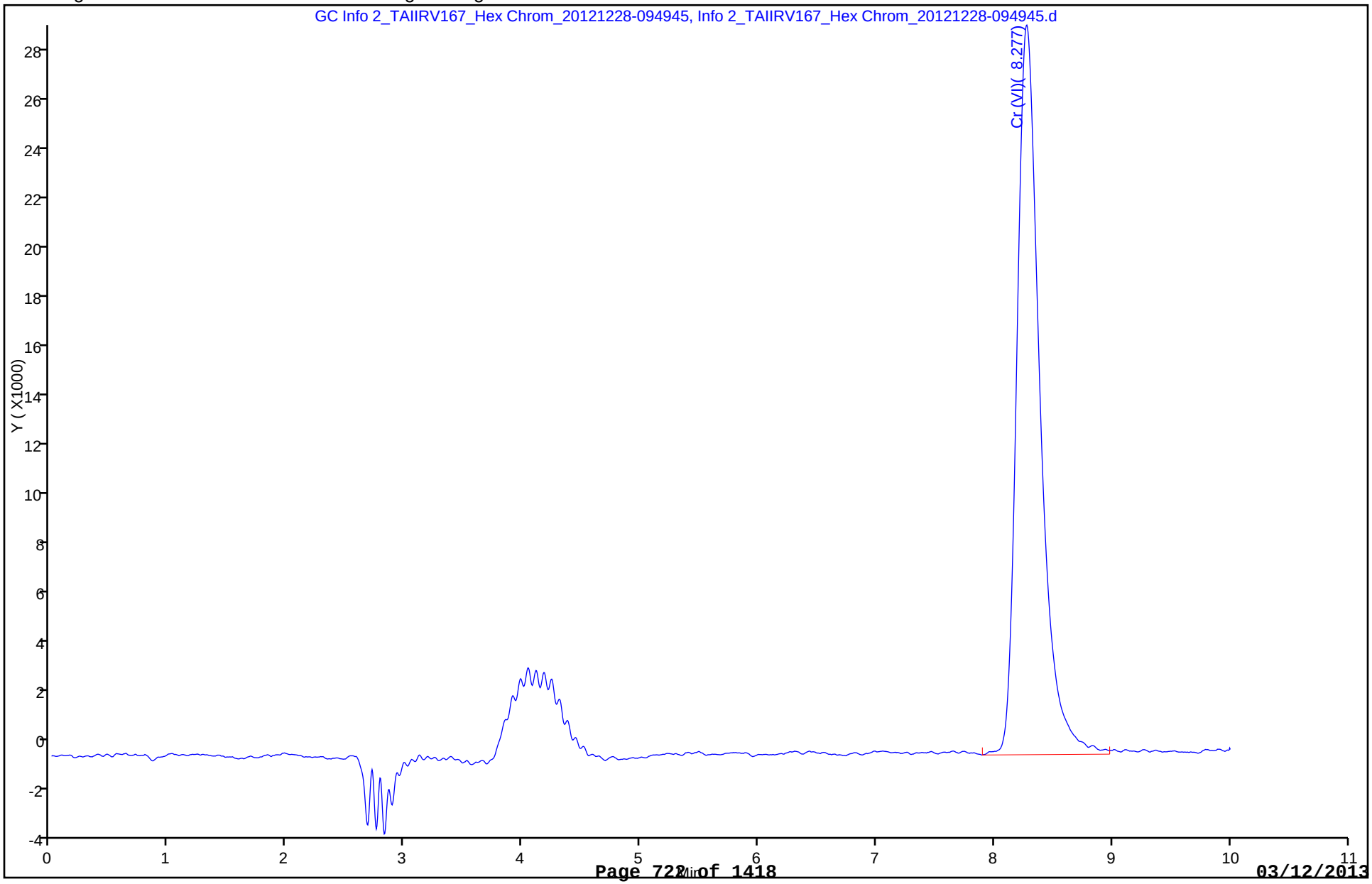
Report Date: 28-Dec-2012 11:08:07 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-094945.d

Injection Date:	28-Dec-2012 09:37:00	Limit Group:	IC-7199
Client ID:		Instrument ID:	IC-16
Lims Batch ID:	75938	Lims Sample ID:	23
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-100225.d		
Lims ID:	STD5	Client ID:	
Inject. Date:	28-Dec-2012 09:49:00	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	440-0016809-024		
Misc. Info.:	440-0016809-024		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	75938	Lims Sample ID:	24
Sublist:	chrom-218.6_16*sub1		
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20121228-100225		
Method:	\\Irvchrom\ChromData\IC16\20121228-16809.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	28-Dec-2012 11:08:07	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK024		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.272	8.262	0.010	956106	25.1	

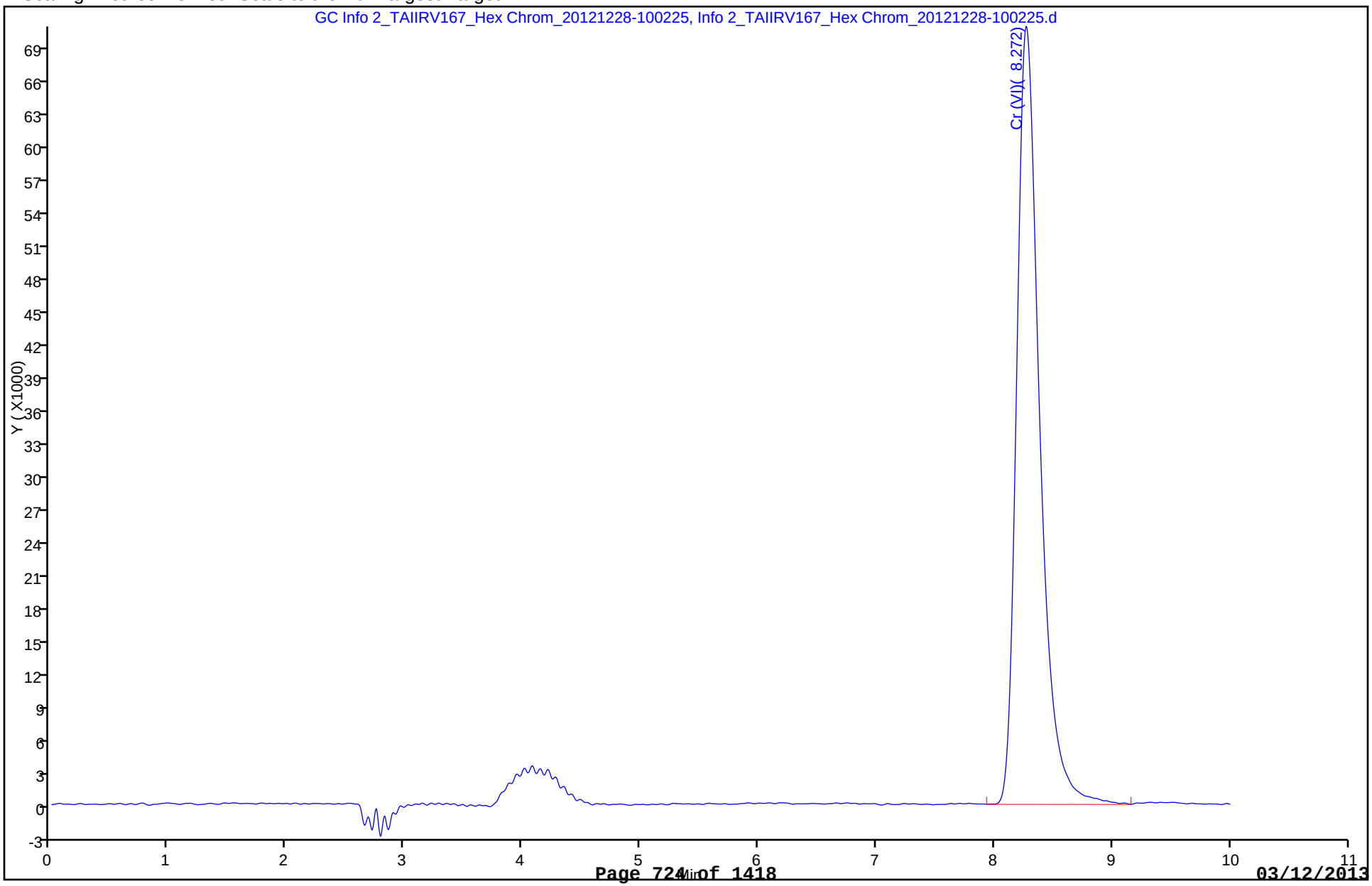
Report Date: 28-Dec-2012 11:08:08 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-100225.d

Injection Date:	28-Dec-2012 09:49:00	Limit Group:	IC-7199
Client ID:		Instrument ID:	IC-16
Lims Batch ID:	75938	Lims Sample ID:	24
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-101504.d		
Lims ID:	STD6	Client ID:	
Inject. Date:	28-Dec-2012 10:02:00	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	5
Sample ID:	440-0016809-025		
Misc. Info.:	440-0016809-025		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	75938	Lims Sample ID:	25
Sublist:	chrom-218.6_16*sub1		
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20121228-101504		
Method:	\\Irvchrom\ChromData\IC16\20121228-16809.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	28-Dec-2012 11:08:08	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK024		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.282	8.262	0.020	1893100	50.0	

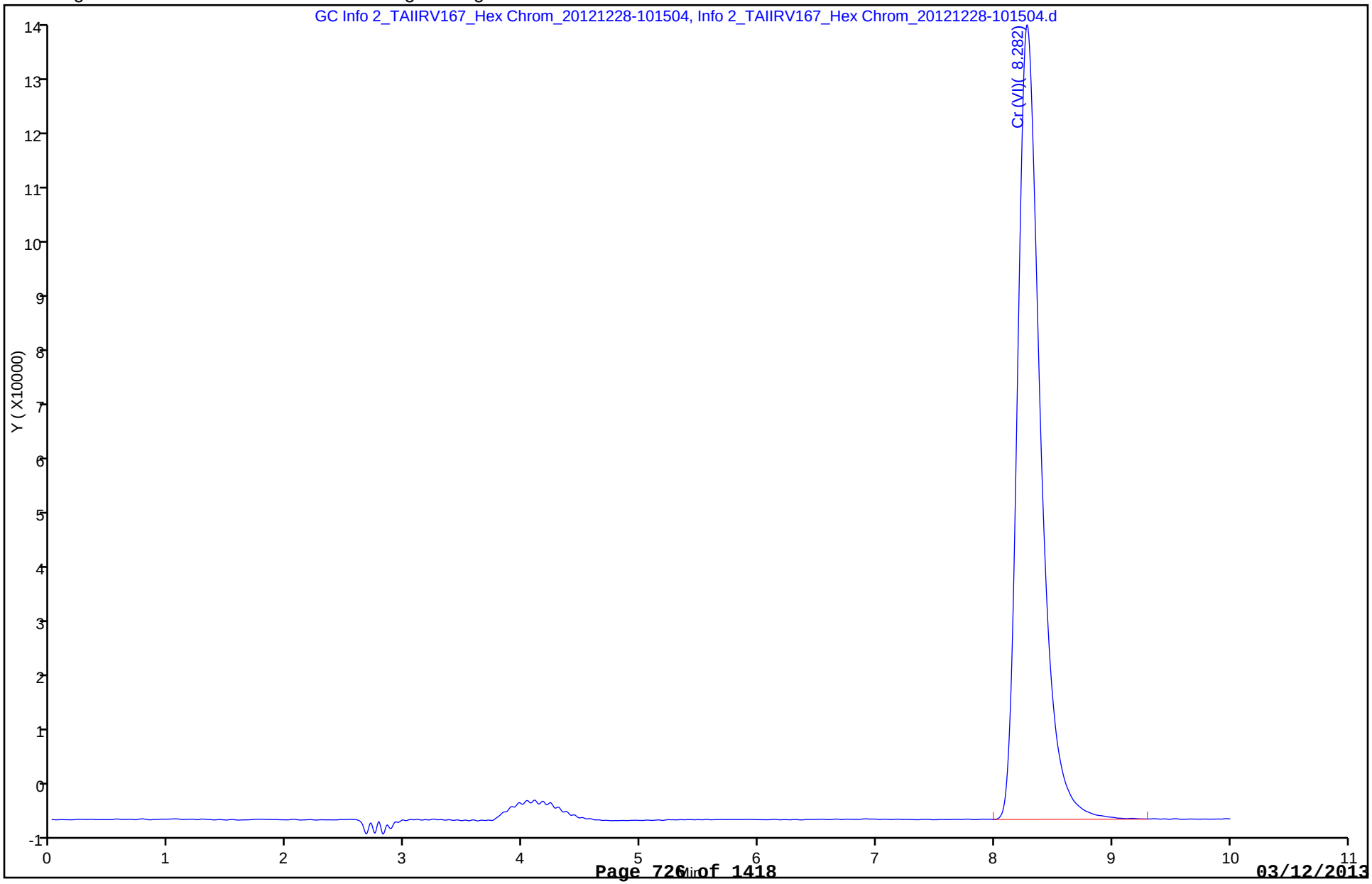
Report Date: 28-Dec-2012 11:08:08 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-101504.d

Injection Date:	28-Dec-2012 10:02:00	Limit Group:	IC-7199
Client ID:		Instrument ID:	IC-16
Lims Batch ID:	75938	Lims Sample ID:	25
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-102746.d		
Lims ID:	STD7	Client ID:	
Inject. Date:	28-Dec-2012 10:15:00	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	440-0016809-026		
Misc. Info.:	440-0016809-026		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	75938	Lims Sample ID:	26
Sublist:	chrom-218.6_16*sub1		
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20121228-102746		
Method:	\\Irvchrom\ChromData\IC16\20121228-16809.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	28-Dec-2012 11:08:08	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK024		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.272	8.262	0.010	2853900	75.4	

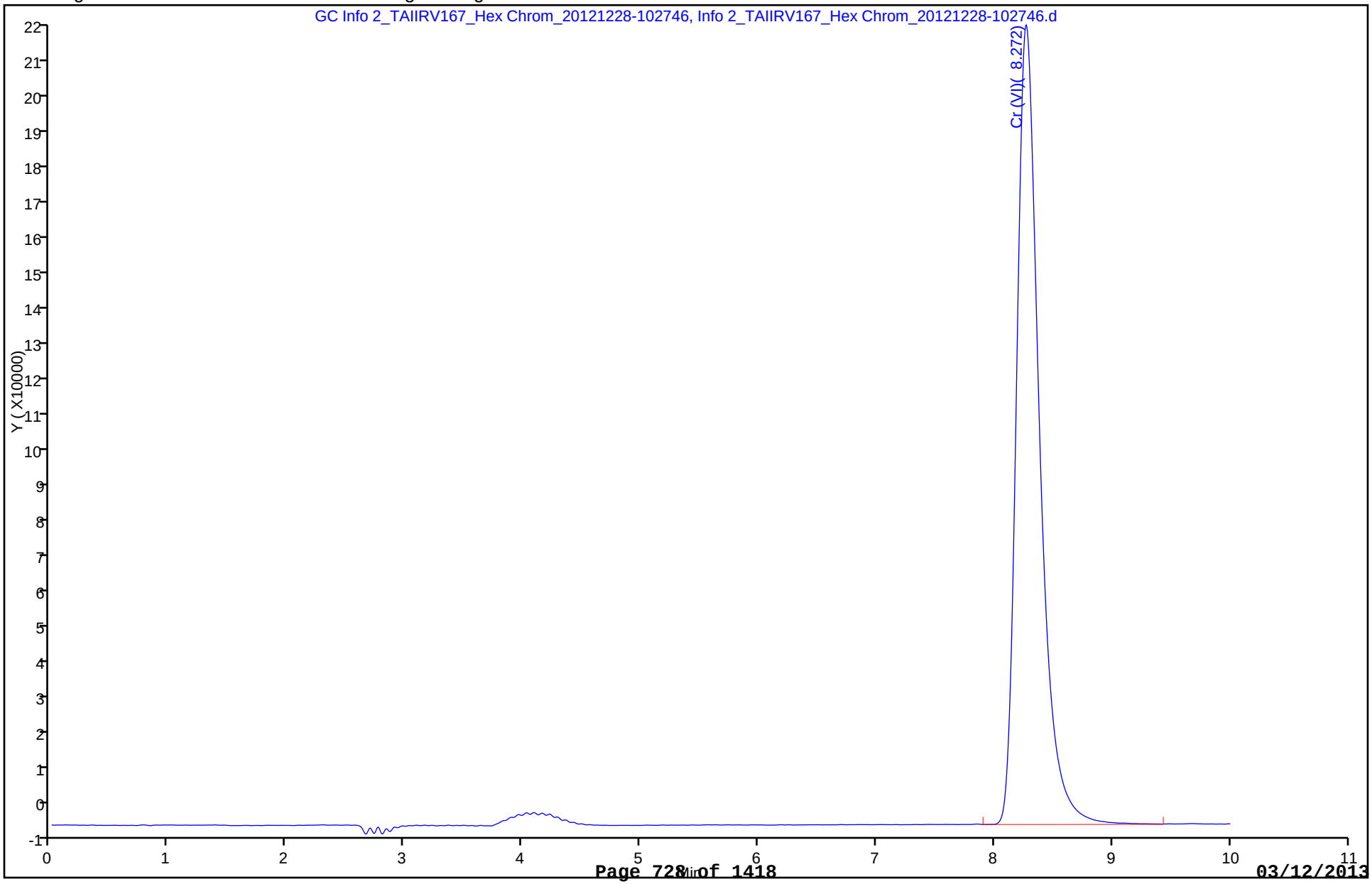
Report Date: 28-Dec-2012 11:08:08 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-102746.d

Injection Date:	28-Dec-2012 10:15:00	Limit Group:	IC-7199
Client ID:		Instrument ID:	IC-16
Lims Batch ID:	75938	Lims Sample ID:	26
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Lims ID:	STD8	Client ID:	
Inject. Date:	28-Dec-2012 10:27:00	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	7
Sample ID:	440-0016809-027		
Misc. Info.:	440-0016809-027		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	75938	Lims Sample ID:	27
Sublist:	chrom-218.6_16*sub1		
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20121228-104026		
Method:	\\Irvchrom\ChromData\IC16\20121228-16809.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	28-Dec-2012 11:08:09	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK024		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.293	8.262	0.031	3768733	99.6	

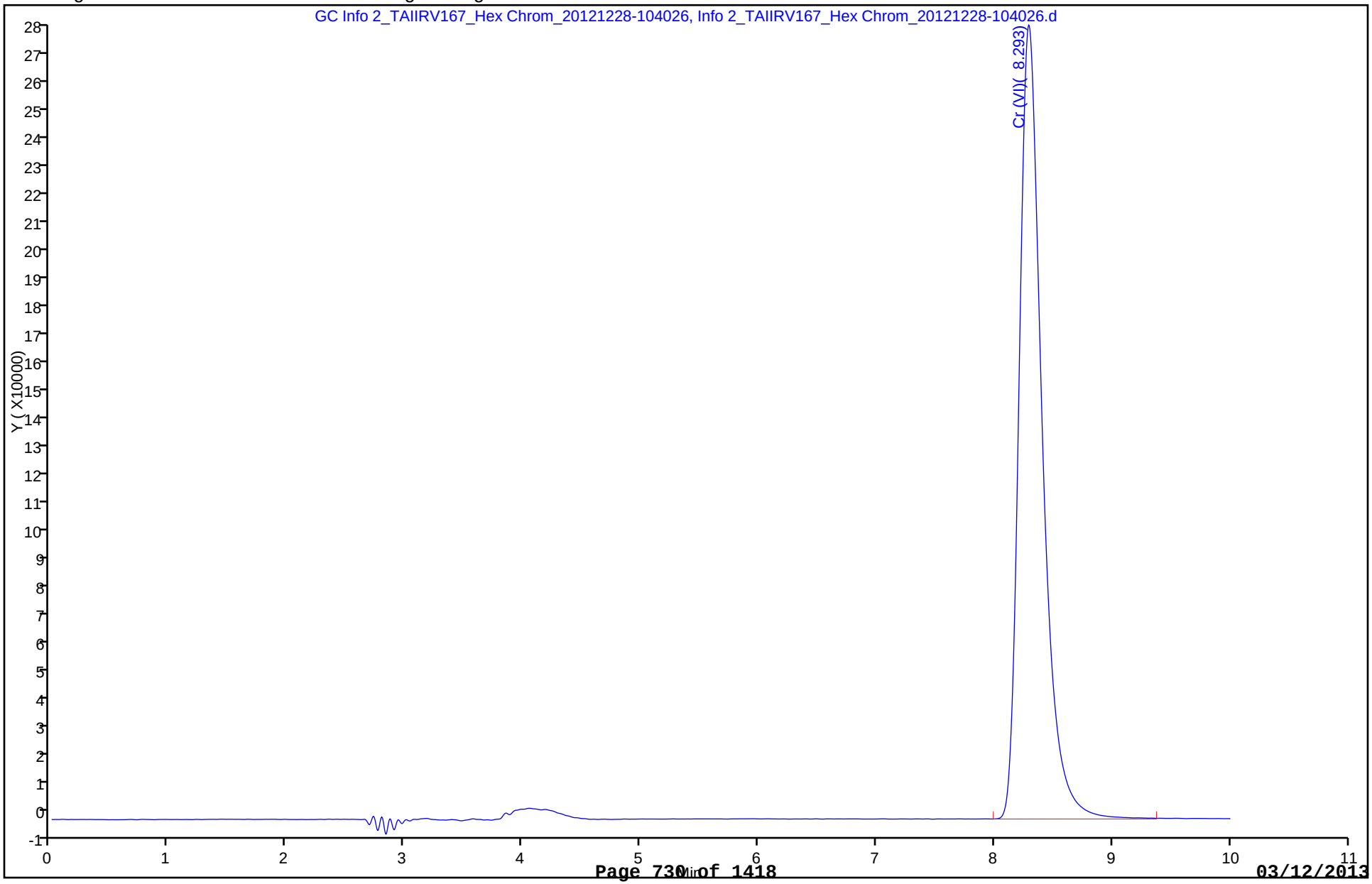
Report Date: 28-Dec-2012 11:08:09 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d

Injection Date:	28-Dec-2012 10:27:00	Limit Group:	IC-7199
Client ID:		Instrument ID:	IC-16
Lims Batch ID:	75938	Lims Sample ID:	27
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Irvine Job No.: 480-30406-1

SDG No.:

Lab Sample ID: ICV 440-75938/29 Calibration Date: 12/28/2012 11:01

Instrument ID: IC-16 Calib Start Date: 12/28/2012 08:59

GC Column: AS7 ID: 4.00(mm) Calib End Date: 12/28/2012 10:27

Lab File ID: Info 2_TAIIRV167_Hex Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
Cr (VI)	Lin				50.9	50.0	102	90-110

FORM VII 7199

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Irvine Job No.: 480-30406-1

SDG No.:

Lab Sample ID: ICV 440-75938/29 Calibration Date: 12/28/2012 11:01

Instrument ID: IC-16 Calib Start Date: 12/28/2012 08:59

GC Column: AS7 ID: 4.00(mm) Calib End Date: 12/28/2012 10:27

Lab File ID: Info 2_TAIIRV167_Hex

Analyte	RT	RT WINDOW	
		FROM	TO
Cr (VI)	8.29	7.85	8.68

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-111406.d		
Lims ID:	icv	Client ID:	
Inject. Date:	28-Dec-2012 11:01:00	Dil. Factor:	1.0000
Sample Type:	ICV		
Sample ID:	440-0016809-029		
Misc. Info.:	440-0016809-029		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	75938	Lims Sample ID:	29
Sublist:			
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20121228-111406		
Method:	\\Irvchrom\ChromData\IC16\20121228-16809.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	28-Dec-2012 12:15:52	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK024		

First Level Reviewer: phamq Date: 28-Dec-2012 11:24:44

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.287	8.262	0.025	1929533	50.9	

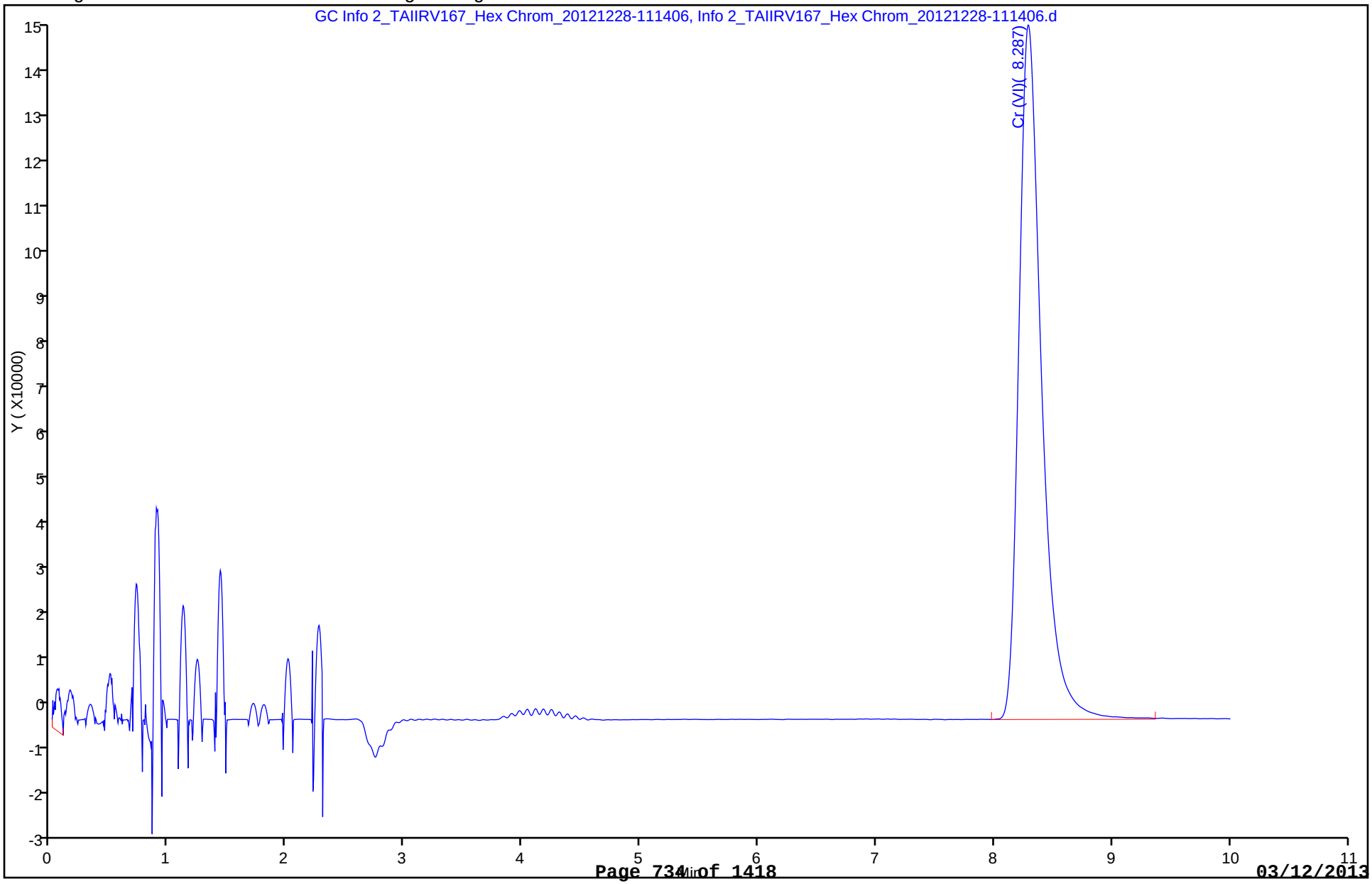
Report Date: 28-Dec-2012 11:24:45 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-111406.d

Injection Date:	28-Dec-2012 11:01:00	Limit Group:	IC-7199
Client ID:		Instrument ID:	IC-16
Lims Batch ID:	75938	Lims Sample ID:	29
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Irvine Job No.: 480-30406-1

SDG No.:

Lab Sample ID: CCV 440-76371/16 Calibration Date: 12/31/2012 15:46

Instrument ID: IC-16 Calib Start Date: 12/28/2012 08:59

GC Column: AS7 ID: 4.00(mm) Calib End Date: 12/28/2012 10:27

Lab File ID: Info 2_TAIIRV167_Hex Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
Cr (VI)	Lin				48.9	50.0	98	90-110

FORM VII 7199

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Irvine Job No.: 480-30406-1

SDG No.:

Lab Sample ID: CCV 440-76371/16 Calibration Date: 12/31/2012 15:46

Instrument ID: IC-16 Calib Start Date: 12/28/2012 08:59

GC Column: AS7 ID: 4.00(mm) Calib End Date: 12/28/2012 10:27

Lab File ID: Info 2_TAIIRV167_Hex

Analyte	RT	RT WINDOW	
		FROM	TO
Cr (VI)	8.26	7.85	8.68

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20121231-16916.b\Info 2_TAIIRV167_Hex Chrom_20121231-155911.d		
Lims ID:	ccv	Client ID:	
Inject. Date:	31-Dec-2012 15:46:00	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	440-0016916-016		
Misc. Info.:	440-0016916-016		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	76371	Lims Sample ID:	16
Sublist:	chrom-218.6_16*sub1		
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20121231-155911		
Method:	\\Irvchrom\ChromData\IC16\20121231-16916.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	31-Dec-2012 17:49:14	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK004		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.256	8.262	-0.006	1851616	48.9	

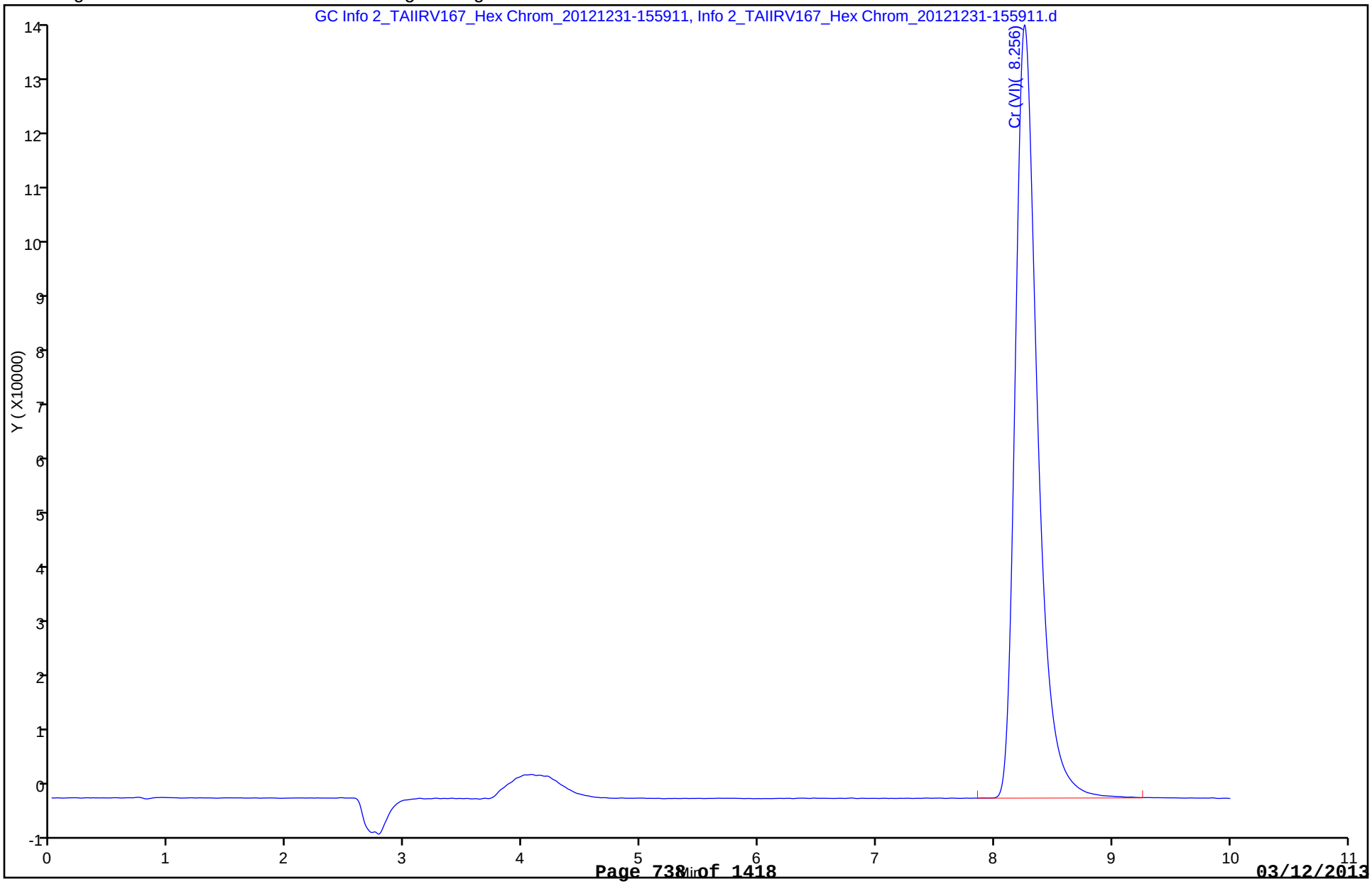
Report Date: 31-Dec-2012 17:49:14 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20121231-16916.b\Info 2_TAIIRV167_Hex Chrom_20121231-155911.d

Injection Date:	31-Dec-2012 15:46:00	Limit Group:	IC-7199
Client ID:		Instrument ID:	IC-16
Lims Batch ID:	76371	Lims Sample ID:	16
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Irvine Job No.: 480-30406-1

SDG No.:

Lab Sample ID: CCV 440-76481/15 Calibration Date: 01/01/2013 19:09

Instrument ID: IC-16 Calib Start Date: 12/28/2012 08:59

GC Column: AS7 ID: 4.00(mm) Calib End Date: 12/28/2012 10:27

Lab File ID: Info 2_TAIIRV167_Hex Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
Cr (VI)	Lin				49.4	50.0	99	90-110

FORM VII 7199

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Irvine Job No.: 480-30406-1

SDG No.:

Lab Sample ID: CCV 440-76481/15 Calibration Date: 01/01/2013 19:09

Instrument ID: IC-16 Calib Start Date: 12/28/2012 08:59

GC Column: AS7 ID: 4.00(mm) Calib End Date: 12/28/2012 10:27

Lab File ID: Info 2_TAIIRV167_Hex

Analyte	RT	RT WINDOW	
		FROM	TO
Cr (VI)	8.24	7.85	8.68

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20130101-16934.b\Info 2_TAIIRV167_Hex Chrom_20130101-192224.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	01-Jan-2013 19:09:00	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	440-0016934-015		
Misc. Info.:	440-0016934-015		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	76481	Lims Sample ID:	15
Sublist:	chrom-218.6_16*sub1		
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20130101-192224		
Method:	\\Irvchrom\ChromData\IC16\20130101-16934.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	01-Jan-2013 19:24:35	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK003		

First Level Reviewer: welchr Date: 01-Jan-2013 19:24:35

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.241	8.262	-0.021	1872354	49.4	

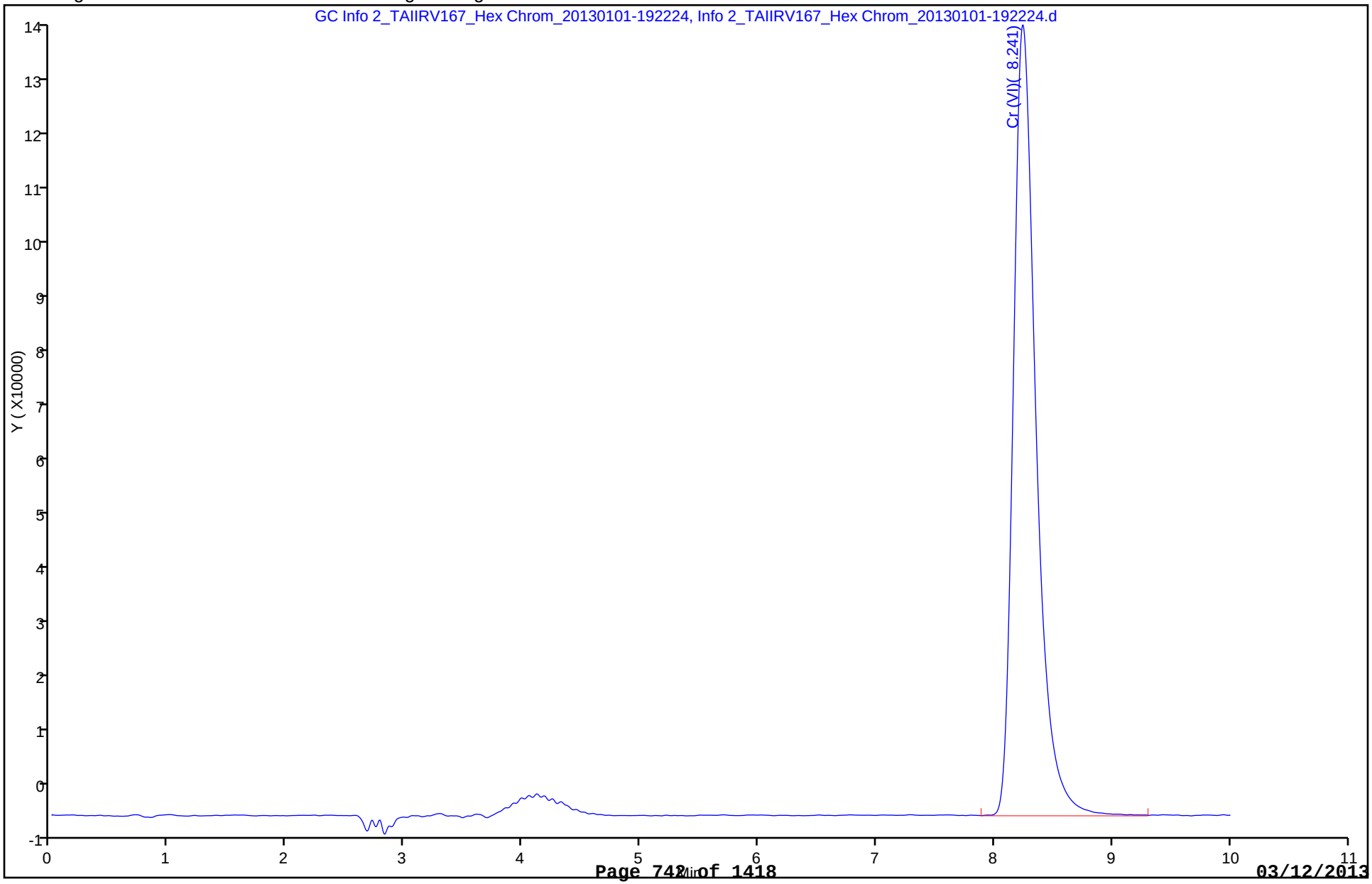
Report Date: 01-Jan-2013 19:24:36 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130101-16934.b\Info 2_TAIIRV167_Hex Chrom_20130101-192224.d

Injection Date:	01-Jan-2013 19:09:00	Limit Group:	IC-7199
Client ID:		Instrument ID:	IC-16
Lims Batch ID:	76481	Lims Sample ID:	15
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Irvine Job No.: 480-30406-1

SDG No.:

Lab Sample ID: CCV 440-76481/25 Calibration Date: 01/01/2013 21:16

Instrument ID: IC-16 Calib Start Date: 12/28/2012 08:59

GC Column: AS7 ID: 4.00(mm) Calib End Date: 12/28/2012 10:27

Lab File ID: Info 2_TAIIRV167_Hex Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
Cr (VI)	Lin				49.1	50.0	98	90-110

FORM VII 7199

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Irvine Job No.: 480-30406-1

SDG No.:

Lab Sample ID: CCV 440-76481/25 Calibration Date: 01/01/2013 21:16

Instrument ID: IC-16 Calib Start Date: 12/28/2012 08:59

GC Column: AS7 ID: 4.00(mm) Calib End Date: 12/28/2012 10:27

Lab File ID: Info 2_TAIIRV167_Hex

Analyte	RT	RT WINDOW	
		FROM	TO
Cr (VI)	8.19	7.85	8.68

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20130101-16934.b\Info 2_TAIIRV167_Hex Chrom_20130101-212857.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	01-Jan-2013 21:16:00	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	440-0016934-025		
Misc. Info.:	440-0016934-025		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	76481	Lims Sample ID:	25
Sublist:	chrom-218.6_16*sub1		
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20130101-212857		
Method:	\\Irvchrom\ChromData\IC16\20130101-16934.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	02-Jan-2013 06:05:53	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK016		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.194	8.262	-0.068	1858853	49.1	

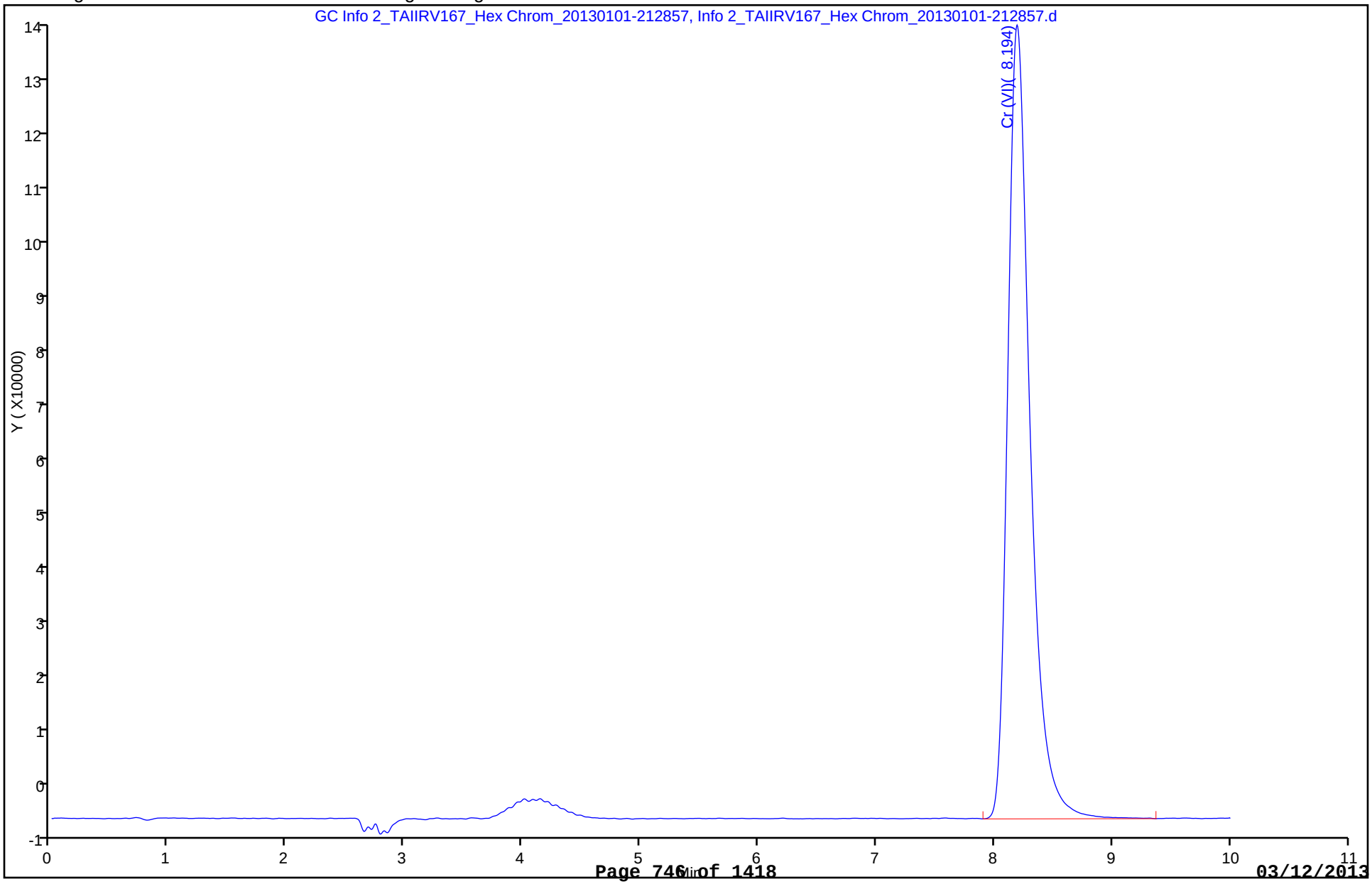
Report Date: 02-Jan-2013 06:05:54 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130101-16934.b\Info 2_TAIIRV167_Hex Chrom_20130101-212857.d

Injection Date:	01-Jan-2013 21:16:00	Limit Group:	IC-7199
Client ID:		Instrument ID:	IC-16
Lims Batch ID:	76481	Lims Sample ID:	25
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-30406-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 440-75585/1-A
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected:
Extraction Method: 3060A
Date Extracted: 12/27/2012 09:26
Sample wt/vol: 1.26(g)
Date Analyzed: 12/31/2012 13:27
Con. Extract Vol.: 50(mL)
Dilution Factor: 10
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 76371
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
18540-29-9	Cr (VI)	ND		0.20	0.15

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20121231-16916.b\Info 2_TAIIRV167_Hex Chrom_20121231-133944.d		
Lims ID:	MB 440-75585/1-A	Client ID:	
Inject. Date:	31-Dec-2012 13:27:00	Dil. Factor:	10.0000
Sample Type:	MB		
Sample ID:	440-0016916-005		
Misc. Info.:	440-0016916-005		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	76371	Lims Sample ID:	5
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20121231-133944		
Method:	\\Irvchrom\ChromData\IC16\20121231-16916.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	31-Dec-2012 14:28:25	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.148	8.262	-0.114	6010	-0.0316	

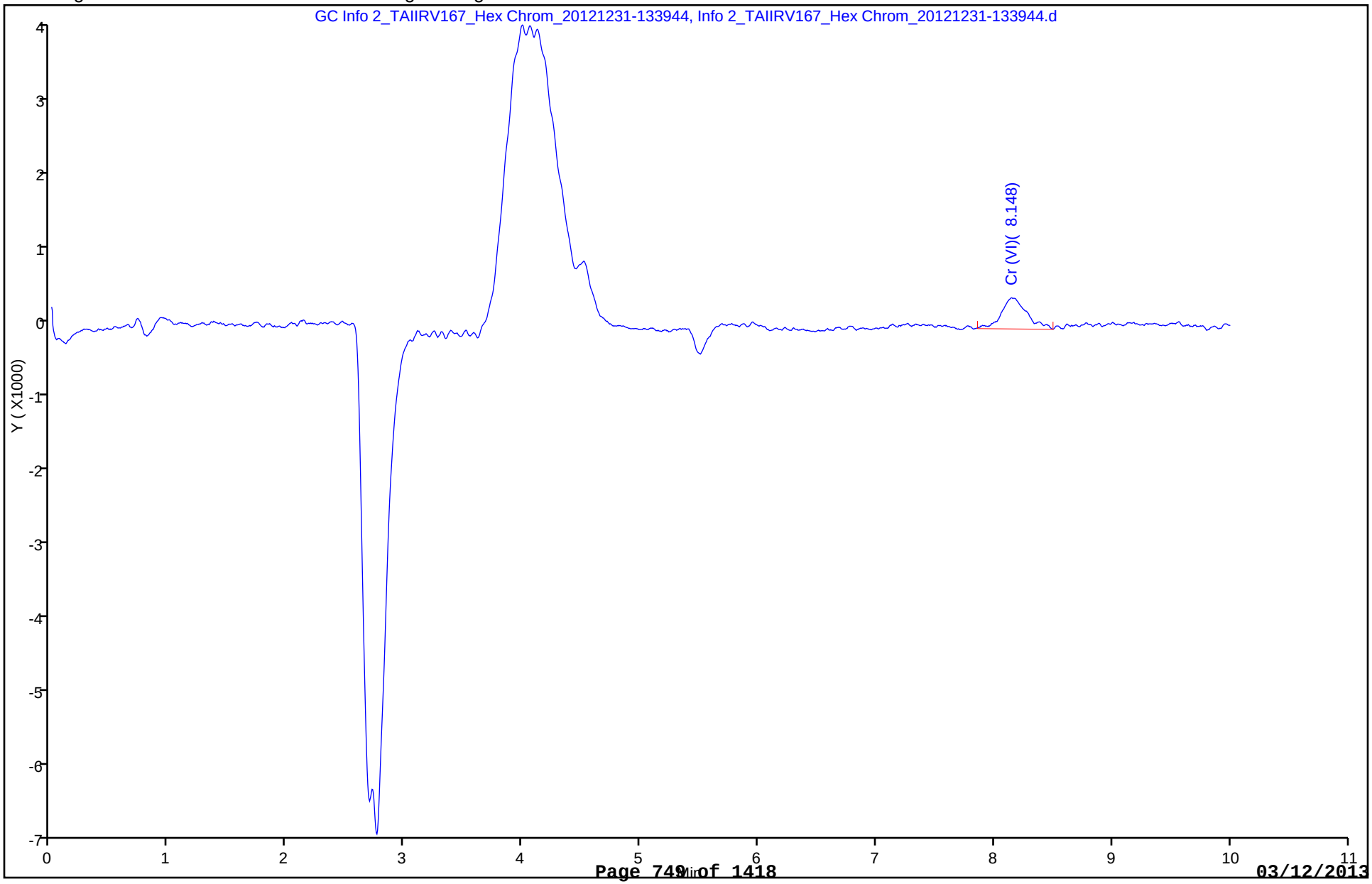
Report Date: 31-Dec-2012 14:28:26 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20121231-16916.b\Info 2_TAIIRV167_Hex Chrom_20121231-133944.d

Injection Date:	31-Dec-2012 13:27:00	Limit Group:	IC-7199
Client ID:		Instrument ID:	IC-16
Lims Batch ID:	76371	Lims Sample ID:	5
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-30406-1
SDG No.:
Client Sample ID:
Lab Sample ID: CCB 440-76371/15
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected:
Extraction Method:
Date Extracted:
Sample wt/vol: 10(mL)
Date Analyzed: 12/31/2012 15:33
Con. Extract Vol.:
Dilution Factor: 1
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 76371
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
18540-29-9	Cr (VI)	ND		2.0	0.25

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20121231-16916.b\Info 2_TAIIRV167_Hex Chrom_20121231-154630.d		
Lims ID:	ccb	Client ID:	
Inject. Date:	31-Dec-2012 15:33:00	Dil. Factor:	1.0000
Sample Type:	CCB		
Sample ID:	440-0016916-015		
Misc. Info.:	440-0016916-015		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	76371	Lims Sample ID:	15
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20121231-154630		
Method:	\\Irvchrom\ChromData\IC16\20121231-16916.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	31-Dec-2012 18:24:38	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK004		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags

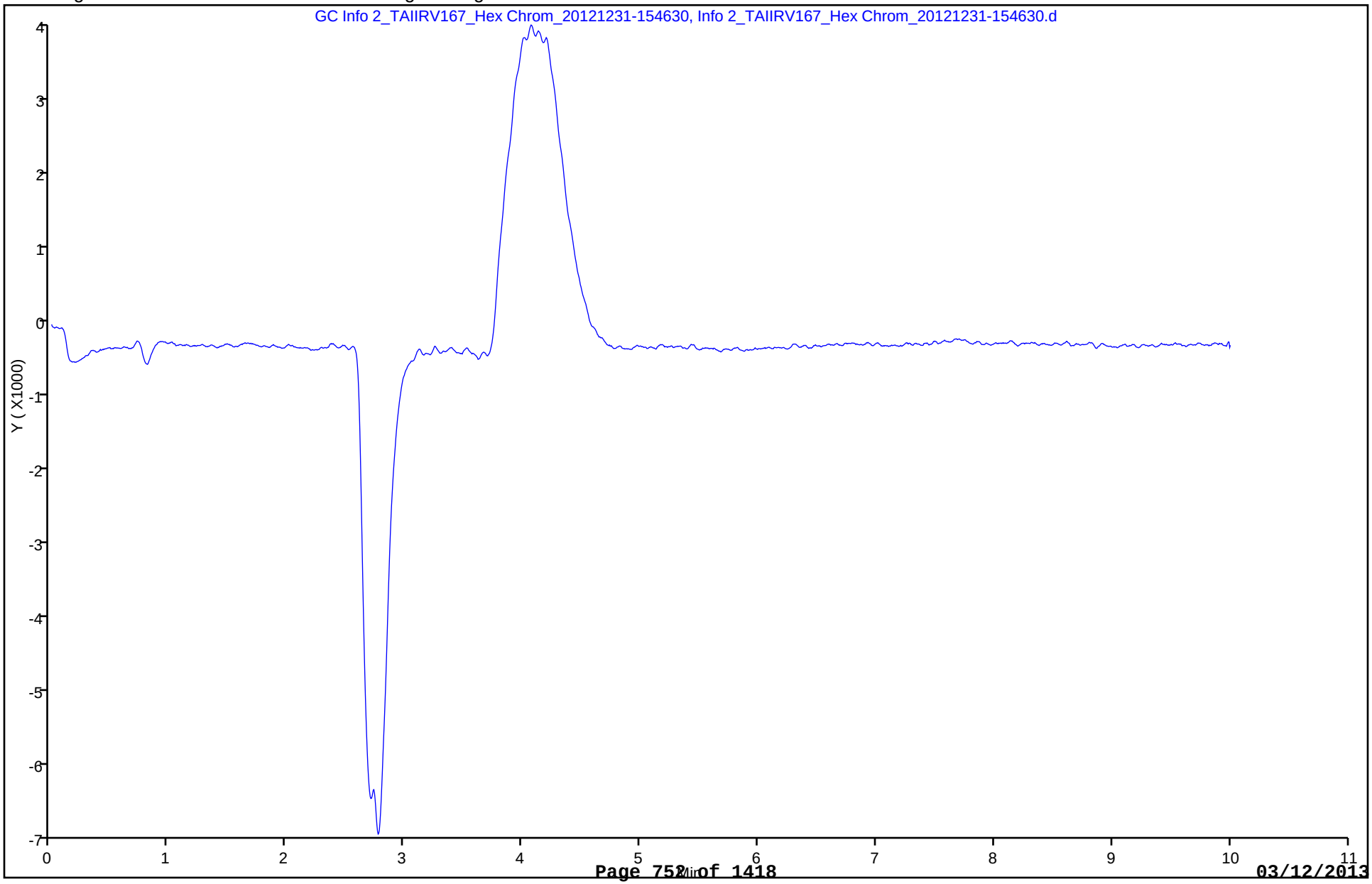
Report Date: 31-Dec-2012 17:49:14 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20121231-16916.b\Info 2_TAIIRV167_Hex Chrom_20121231-154630.d

Injection Date:	31-Dec-2012 15:33:00	Limit Group:	IC-7199
Client ID:		Instrument ID:	IC-16
Lims Batch ID:	76371	Lims Sample ID:	15
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-30406-1
SDG No.:
Client Sample ID:
Lab Sample ID: CCB 440-76481/16
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected:
Extraction Method:
Date Extracted:
Sample wt/vol: 10(mL)
Date Analyzed: 01/01/2013 19:22
Con. Extract Vol.:
Dilution Factor: 1
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 76481
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
18540-29-9	Cr (VI)	ND		2.0	0.25

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20130101-16934.b\Info 2_TAIIRV167_Hex Chrom_20130101-193503.d		
Lims ID:	CCB	Client ID:	
Inject. Date:	01-Jan-2013 19:22:00	Dil. Factor:	1.0000
Sample Type:	CCB		
Sample ID:	440-0016934-016		
Misc. Info.:	440-0016934-016		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	76481	Lims Sample ID:	16
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20130101-193503		
Method:	\\Irvchrom\ChromData\IC16\20130101-16934.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	01-Jan-2013 19:24:35	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK003		

First Level Reviewer: welchr Date: 01-Jan-2013 19:38:33

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags

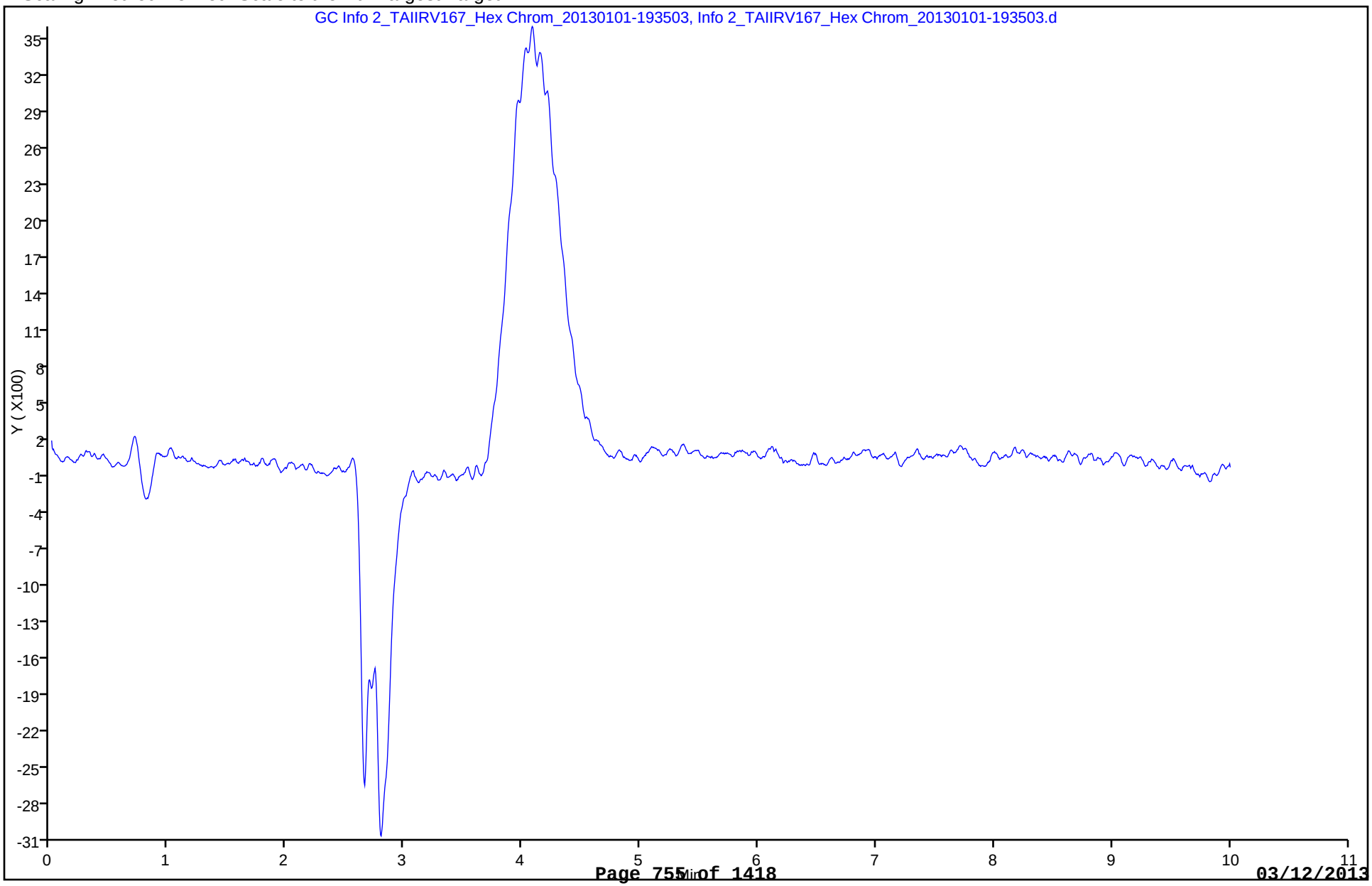
Report Date: 01-Jan-2013 19:38:34 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130101-16934.b\Info 2_TAIIRV167_Hex Chrom_20130101-193503.d

Injection Date:	01-Jan-2013 19:22:00	Limit Group:	IC-7199
Client ID:		Instrument ID:	IC-16
Lims Batch ID:	76481	Lims Sample ID:	16
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-30406-1
SDG No.:
Client Sample ID:
Lab Sample ID: CCB 440-76481/26
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected:
Extraction Method:
Date Extracted:
Sample wt/vol: 10(mL)
Date Analyzed: 01/01/2013 21:29
Con. Extract Vol.:
Dilution Factor: 1
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 76481
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
18540-29-9	Cr (VI)	ND		2.0	0.25

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20130101-16934.b\Info 2_TAIIRV167_Hex Chrom_20130101-214136.d		
Lims ID:	CCB	Client ID:	
Inject. Date:	01-Jan-2013 21:29:00	Dil. Factor:	1.0000
Sample Type:	CCB		
Sample ID:	440-0016934-026		
Misc. Info.:	440-0016934-026		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	76481	Lims Sample ID:	26
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20130101-214136		
Method:	\\Irvchrom\ChromData\IC16\20130101-16934.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	02-Jan-2013 06:05:53	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK016		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags

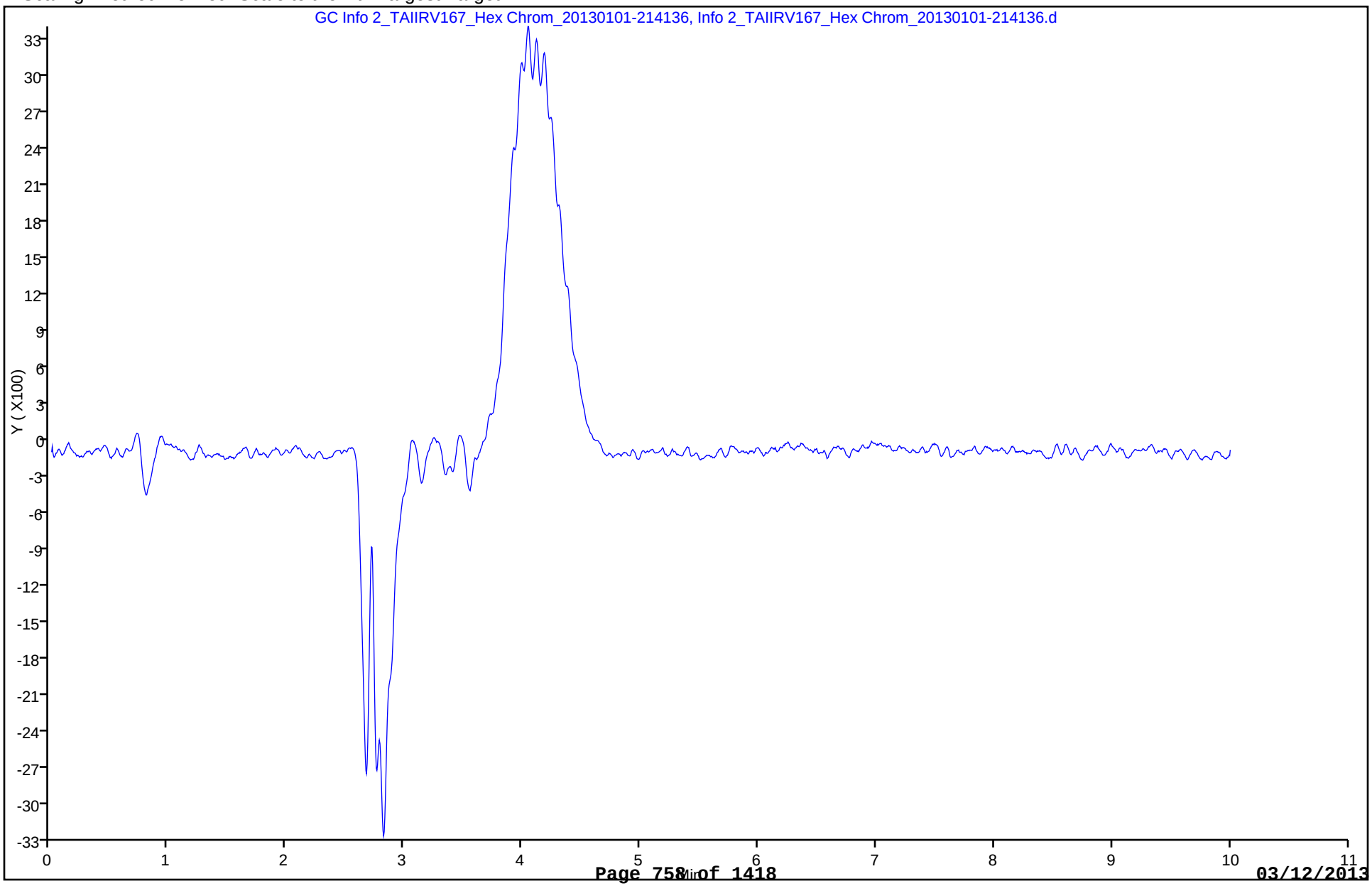
Report Date: 02-Jan-2013 06:05:55 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130101-16934.b\Info 2_TAIIRV167_Hex Chrom_20130101-214136.d

Injection Date:	01-Jan-2013 21:29:00	Limit Group:	IC-7199
Client ID:		Instrument ID:	IC-16
Lims Batch ID:	76481	Lims Sample ID:	26
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-30406-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 440-75585/2-A
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected:
Extraction Method: 3060A
Date Extracted: 12/27/2012 09:26
Sample wt/vol: 1.26(g)
Date Analyzed: 12/31/2012 13:39
Con. Extract Vol.: 50(mL)
Dilution Factor: 10
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 76371
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
18540-29-9	Cr (VI)	10.5		0.20	0.15

TestAmerica Irvine
Target Compound Quantitation Report

Data File:	\\Irvchrom\ChromData\IC16\20121231-16916.b\Info 2_TAIIRV167_Hex Chrom_20121231-135226.d		
Lims ID:	LCS 440-75585/2-A	Client ID:	
Inject. Date:	31-Dec-2012 13:39:00	Dil. Factor:	10.0000
Sample Type:	LCS		
Sample ID:	440-0016916-006		
Misc. Info.:	440-0016916-006		
Operator:	irvinorg	Instrument ID:	IC-16
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	76371	Lims Sample ID:	6
Raw Data:	Smoothed		
Detector:	GC Info 2_TAIIRV167_Hex Chrom_20121231-135226		
Method:	\\Irvchrom\ChromData\IC16\20121231-16916.b\218.6_16.m		
Method Label:	HEX CHROME		
Last Update:	31-Dec-2012 14:28:25	Calib Date:	28-Dec-2012 10:27:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d		
Limit Group:	IC-7199		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK027		

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
1 Cr (VI)	8.174	8.262	-0.088	1009473	26.6	

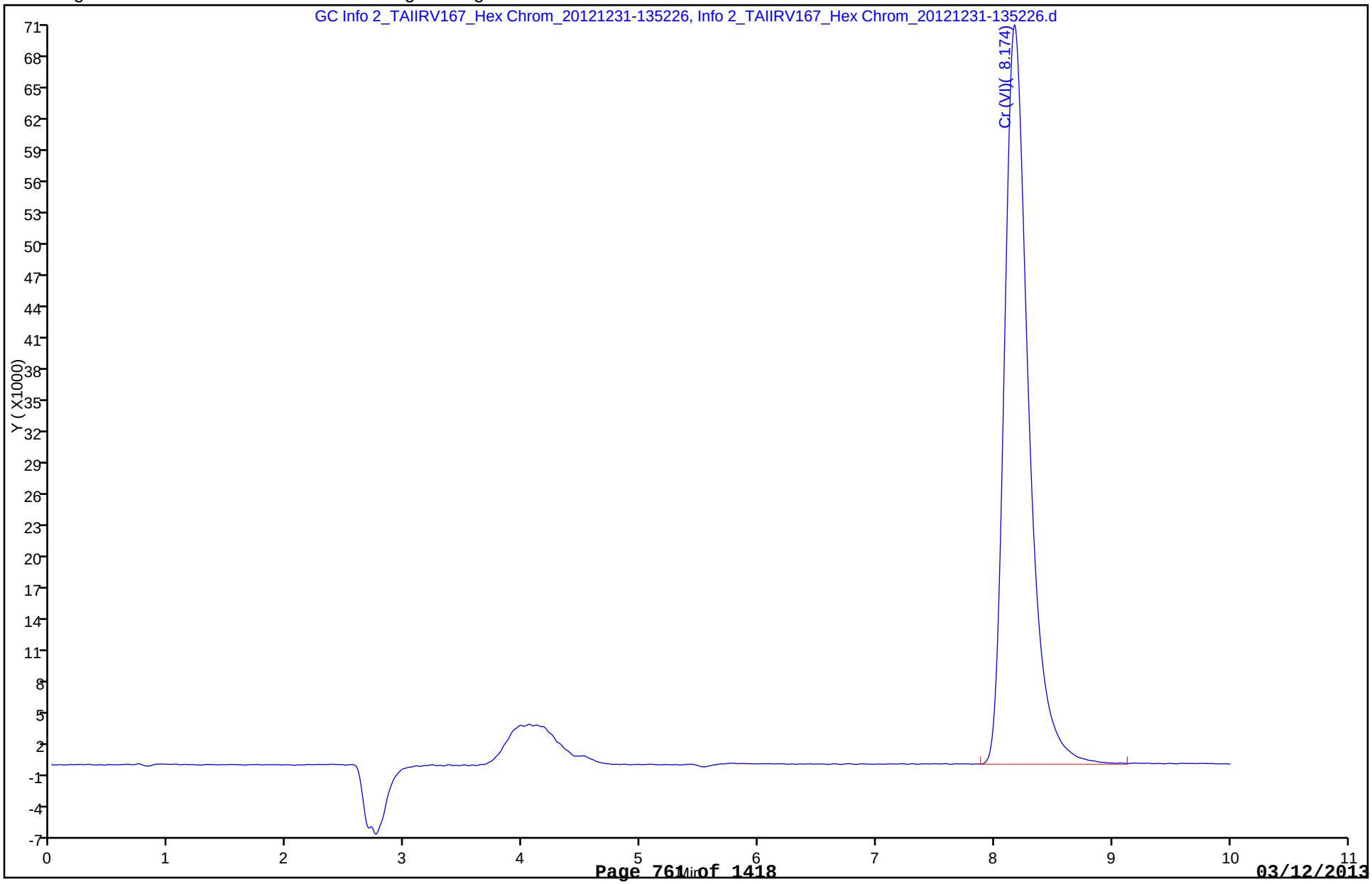
Report Date: 31-Dec-2012 14:28:27 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20121231-16916.b\Info 2_TAIIRV167_Hex Chrom_20121231-135226.d

Injection Date:	31-Dec-2012 13:39:00	Limit Group:	IC-7199
Client ID:		Instrument ID:	IC-16
Lims Batch ID:	76371	Lims Sample ID:	6
Operator ID:	irvinorg	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Irvine Job No.: 480-30406-1

SDG No.:

Instrument ID: IC-16 Start Date: 12/28/2012 04:58

Analysis Batch Number: 75938 End Date: 12/28/2012 11:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		12/28/2012 04:58	1		AS7 4(mm)
ZZZZZ		12/28/2012 05:11	1		AS7 4(mm)
ZZZZZ		12/28/2012 05:23	1		AS7 4(mm)
ZZZZZ		12/28/2012 05:36	1		AS7 4(mm)
ZZZZZ		12/28/2012 05:49	1		AS7 4(mm)
ZZZZZ		12/28/2012 06:01	1		AS7 4(mm)
ZZZZZ		12/28/2012 06:39	1		AS7 4(mm)
CCV 440-75938/17		12/28/2012 08:21	1		AS7 4(mm)
CCB 440-75938/18		12/28/2012 08:33	1		AS7 4(mm)
ZZZZZ		12/28/2012 08:46	1		AS7 4(mm)
STD1 440-75938/20 IC		12/28/2012 08:59	1		AS7 4(mm)
STD2 440-75938/21 IC		12/28/2012 09:11	1	Info 2_TAIIRV167_Hex Chrom_20121228-092425.d	AS7 4(mm)
STD3 440-75938/22 IC		12/28/2012 09:24	1	Info 2_TAIIRV167_Hex Chrom_20121228-093704.d	AS7 4(mm)
STD4 440-75938/23 IC		12/28/2012 09:37	1	Info 2_TAIIRV167_Hex Chrom_20121228-094945.d	AS7 4(mm)
STD5 440-75938/24 IC		12/28/2012 09:49	1	Info 2_TAIIRV167_Hex Chrom_20121228-100225.d	AS7 4(mm)
STD6 440-75938/25 IC		12/28/2012 10:02	1	Info 2_TAIIRV167_Hex Chrom_20121228-101504.d	AS7 4(mm)
STD7 440-75938/26 IC		12/28/2012 10:15	1	Info 2_TAIIRV167_Hex Chrom_20121228-102746.d	AS7 4(mm)
STD8 440-75938/27 IC		12/28/2012 10:27	1	Info 2_TAIIRV167_Hex Chrom_20121228-104026.d	AS7 4(mm)
ZZZZZ		12/28/2012 10:40	1		AS7 4(mm)
ICV 440-75938/29		12/28/2012 11:01	1	Info 2_TAIIRV167_Hex Chrom_20121228-111406.d	AS7 4(mm)

7199

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Irvine Job No.: 480-30406-1

SDG No.:

Instrument ID: IC-16 Start Date: 12/31/2012 12:36

Analysis Batch Number: 76371 End Date: 12/31/2012 20:06

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		12/31/2012 12:36	1		AS7 4(mm)
ZZZZZ		12/31/2012 12:49	1		AS7 4(mm)
ZZZZZ		12/31/2012 13:01	1		AS7 4(mm)
ZZZZZ		12/31/2012 13:14	1		AS7 4(mm)
MB 440-75585/1-A		12/31/2012 13:27	10	Info 2_TAIIRV167_Hex Chrom_20121231-133944.d	AS7 4(mm)
LCS 440-75585/2-A		12/31/2012 13:39	10	Info 2_TAIIRV167_Hex Chrom_20121231-135226.d	AS7 4(mm)
ZZZZZ		12/31/2012 13:52	10		AS7 4(mm)
ZZZZZ		12/31/2012 14:05	10		AS7 4(mm)
ZZZZZ		12/31/2012 14:17	10		AS7 4(mm)
ZZZZZ		12/31/2012 14:30	1000		AS7 4(mm)
ZZZZZ		12/31/2012 14:43	10		AS7 4(mm)
ZZZZZ		12/31/2012 14:55	10		AS7 4(mm)
ZZZZZ		12/31/2012 15:08	10		AS7 4(mm)
ZZZZZ		12/31/2012 15:21	10		AS7 4(mm)
CCB 440-76371/15		12/31/2012 15:33	1	Info 2_TAIIRV167_Hex Chrom_20121231-154630.d	AS7 4(mm)
CCV 440-76371/16		12/31/2012 15:46	1	Info 2_TAIIRV167_Hex Chrom_20121231-155911.d	AS7 4(mm)
ZZZZZ		12/31/2012 16:03	1		AS7 4(mm)
ZZZZZ		12/31/2012 16:20	1		AS7 4(mm)
ZZZZZ		12/31/2012 16:33	1		AS7 4(mm)
ZZZZZ		12/31/2012 16:45	1		AS7 4(mm)
ZZZZZ		12/31/2012 16:58	1		AS7 4(mm)
CCV 440-76371/22		12/31/2012 17:11	1		AS7 4(mm)
CCB 440-76371/23		12/31/2012 17:23	1		AS7 4(mm)
ZZZZZ		12/31/2012 17:59	10		AS7 4(mm)
ZZZZZ		12/31/2012 18:12	10		AS7 4(mm)
ZZZZZ		12/31/2012 18:24	10		AS7 4(mm)
ZZZZZ		12/31/2012 18:37	1000		AS7 4(mm)
ZZZZZ		12/31/2012 18:50	10		AS7 4(mm)
ZZZZZ		12/31/2012 19:02	10		AS7 4(mm)
ZZZZZ		12/31/2012 19:15	10		AS7 4(mm)
ZZZZZ		12/31/2012 19:28	10		AS7 4(mm)
ZZZZZ		12/31/2012 19:40	10		AS7 4(mm)
ZZZZZ		12/31/2012 19:53	10		AS7 4(mm)
CCV 440-76371/34		12/31/2012 20:06	1		AS7 4(mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Irvine Job No.: 480-30406-1

SDG No.:

Instrument ID: IC-16 Start Date: 01/01/2013 16:01

Analysis Batch Number: 76481 End Date: 01/02/2013 00:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		01/01/2013 16:01	1		AS7 4(mm)
ZZZZZ		01/01/2013 16:14	1		AS7 4(mm)
ZZZZZ		01/01/2013 16:28	1		AS7 4(mm)
ZZZZZ		01/01/2013 16:41	1		AS7 4(mm)
ZZZZZ		01/01/2013 17:03	10		AS7 4(mm)
ZZZZZ		01/01/2013 17:15	10		AS7 4(mm)
ZZZZZ		01/01/2013 17:28	10		AS7 4(mm)
ZZZZZ		01/01/2013 17:41	1000		AS7 4(mm)
ZZZZZ		01/01/2013 17:53	10		AS7 4(mm)
ZZZZZ		01/01/2013 18:06	10		AS7 4(mm)
ZZZZZ		01/01/2013 18:19	10		AS7 4(mm)
ZZZZZ		01/01/2013 18:31	10		AS7 4(mm)
ZZZZZ		01/01/2013 18:44	10		AS7 4(mm)
ZZZZZ		01/01/2013 18:57	10		AS7 4(mm)
CCV 440-76481/15		01/01/2013 19:09	1	Info 2_TAIIRV167_Hex Chrom_20130101-192224.d	AS7 4(mm)
CCB 440-76481/16		01/01/2013 19:22	1	Info 2_TAIIRV167_Hex Chrom_20130101-193503.d	AS7 4(mm)
ZZZZZ		01/01/2013 19:35	10		AS7 4(mm)
ZZZZZ		01/01/2013 19:47	10		AS7 4(mm)
ZZZZZ		01/01/2013 20:00	10		AS7 4(mm)
ZZZZZ		01/01/2013 20:13	10		AS7 4(mm)
480-30406-1	OC-SD-SD-503-XXX	01/01/2013 20:25	10	Info 2_TAIIRV167_Hex Chrom_20130101-203820.d	AS7 4(mm)
480-30406-2	OC-SD-SD-504-XXX	01/01/2013 20:38	10	Info 2_TAIIRV167_Hex Chrom_20130101-205059.d	AS7 4(mm)
480-30406-3	OC-SD-SD-501-XXX	01/01/2013 20:51	10	Info 2_TAIIRV167_Hex Chrom_20130101-210338.d	AS7 4(mm)
480-30406-4	OC-SD-SD-502-XXX	01/01/2013 21:03	10	Info 2_TAIIRV167_Hex Chrom_20130101-211618.d	AS7 4(mm)
CCV 440-76481/25		01/01/2013 21:16	1	Info 2_TAIIRV167_Hex Chrom_20130101-212857.d	AS7 4(mm)
CCB 440-76481/26		01/01/2013 21:29	1	Info 2_TAIIRV167_Hex Chrom_20130101-214136.d	AS7 4(mm)
ZZZZZ		01/01/2013 21:41	10		AS7 4(mm)
ZZZZZ		01/01/2013 21:54	10		AS7 4(mm)
ZZZZZ		01/01/2013 22:06	10		AS7 4(mm)
ZZZZZ		01/01/2013 22:19	10		AS7 4(mm)

7199

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Irvine Job No.: 480-30406-1

SDG No.:

Instrument ID: IC-16 Start Date: 01/01/2013 16:01

Analysis Batch Number: 76481 End Date: 01/02/2013 00:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		01/01/2013 22:32	10		AS7 4(mm)
ZZZZZ		01/01/2013 22:44	1000		AS7 4(mm)
ZZZZZ		01/01/2013 22:57	10		AS7 4(mm)
ZZZZZ		01/01/2013 23:10	10		AS7 4(mm)
ZZZZZ		01/01/2013 23:22	10		AS7 4(mm)
ZZZZZ		01/01/2013 23:35	10		AS7 4(mm)
CCV 440-76481/37		01/01/2013 23:48	1		AS7 4(mm)
CCB 440-76481/38		01/02/2013 00:00	1		AS7 4(mm)
ZZZZZ		01/02/2013 00:13	10		AS7 4(mm)
CCV 440-76481/40		01/02/2013 00:26	1		AS7 4(mm)
CCB 440-76481/41		01/02/2013 00:38	1		AS7 4(mm)

7199

HPLC/IC BATCH WORKSHEET

Lab Name: TestAmerica Irvine Job No.: 480-30406-1

SDG No.:

Batch Number: 75585 Batch Start Date: 12/27/12 09:26 Batch Analyst: Pham, Quynh D

Batch Method: 3060A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WCCR6LCS50PPM 00010			
MB 440-75585/1		3060A, 7199		1.26 g	50 mL				
LCS 440-75585/2		3060A, 7199		1.26 g	50 mL	0.4 mL			
480-30406-A-1	OC-SD-SD-503-XXX	3060A, 7199	T	1.26 g	50 mL				
480-30406-A-2	OC-SD-SD-504-XXX	3060A, 7199	T	1.25 g	50 mL				
480-30406-A-3	OC-SD-SD-501-XXX	3060A, 7199	T	1.26 g	50 mL				
480-30406-A-4	OC-SD-SD-502-XXX	3060A, 7199	T	1.24 g	50 mL				

Batch Notes	
Alkaline Digestion Solution Reagent ID	813202
First End time	12:45
Potassium Chromate Lot #	199371
Potassium Chromate Vendor ID	199371
Potassium Phosphate Buffer Reagent ID	812744
Lead Chromate Lot #	035232
Lead Chromate Vendor ID	035232
Magnesium Chloride Lot Number	027333
Magnesium Chloride Vendor	027333
First Start time	11:45
Ending Temperature	94 Celsius
Starting Temperature	94 Celsius

Basis	Basis Description
T	Total/NA

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

NDMA_CIMS_IDA

Nitrosamines by Isotope Dilution and GC/CI/MS/MS

FORM II
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 480-30406-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): VF-624MS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DMA #
OC-SD-SD-503-XXX	480-30406-1	101
OC-SD-SD-504-XXX	480-30406-2	94
OC-SD-SD-501-XXX	480-30406-3	88
OC-SD-SD-502-XXX	480-30406-4	129
	MB 320-7689/1-A	116
	LCS 320-7689/2-A	111
OC-SD-SD-503-XXX MS	480-30406-1 MS	82
OC-SD-SD-503-XXX MSD	480-30406-1 MSD	89

	QC LIMITS
DMA = N-Nitrosodimethylamine-d6	50-150

Column to be used to flag recovery values

FORM II GCMSMS_NDMA

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 480-30406-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: LCS 320-7689-2-A, 1-3-2013,

Lab ID: LCS 320-7689/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
N-Nitrosodimethylamine	10.0	9.56	96	70-130	E
N-Nitrosodimethylamine-d6	10.0	11.1	111	50-150	

Column to be used to flag recovery and RPD values

FORM III GCMSMS_NDMA

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 480-30406-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 480-30406-B-1-B MS, 1-3-2013,

Lab ID: 480-30406-1 MS Client ID: OC-SD-SD-503-XXX MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
N-Nitrosodimethylamine	16.2	ND	18.4	114	70-130	E
N-Nitrosodimethylamine-d6	16.2	15	13.3	82	50-150	

Column to be used to flag recovery and RPD values

FORM III GCMSMS_NDMA

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 480-30406-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 480-30406-B-1-C MSD,

Lab ID: 480-30406-1 MSD Client ID: OC-SD-SD-503-XXX MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
N-Nitrosodimethylamine	15.0	13.8	92	29	35	70-130	E
N-Nitrosodimethylamine-d6	15.0	13.4	89			50-150	

Column to be used to flag recovery and RPD values

FORM III GCMSMS_NDMA

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 480-30406-1

SDG No.:

Lab File ID: MB 320-7689-1-A, 1-3-2013, Lab Sample ID: MB 320-7689/1-A

Matrix: Solid Date Extracted: 12/20/2012 13:47

Instrument ID: IT1 Date Analyzed: 01/03/2013 14:18

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 320-7689/2-A	LCS 320-7689-2-A, 1-3-2013, 3-21-29 PM.d	01/03/2013 15:21
OC-SD-SD-503-XXX	480-30406-1	480-30406-B-1-A, 1-3-2013, 4-24-13 PM.d	01/03/2013 16:24
OC-SD-SD-503-XXX MS	480-30406-1 MS	480-30406-B-1-B MS, 1-3-2013, 5-27-14 PM.d	01/03/2013 17:27
OC-SD-SD-503-XXX MSD	480-30406-1 MSD	480-30406-B-1-C MSD, 1-3-2013, 6-30-10 PM.d	01/03/2013 18:30
OC-SD-SD-504-XXX	480-30406-2	480-30406-B-2-A, 1-3-2013, 7-33-01 PM.d	01/03/2013 19:33
OC-SD-SD-501-XXX	480-30406-3	480-30406-B-3-A, 1-3-2013, 8-35-59 PM.d	01/03/2013 20:36
OC-SD-SD-502-XXX	480-30406-4	480-30406-B-4-A, 1-7-2013, 11-11-57 PM.d	01/07/2013 23:11

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 480-30406-1
SDG No.:
Client Sample ID: OC-SD-SD-503-XXX
Lab Sample ID: 480-30406-1
Matrix: Solid
Lab File ID: 480-30406-B-1-A, 1-3-2013,
Analysis Method: GCMSMS_NDMA
Date Collected: 12/17/2012 14:30
Extraction Method: 3550B
Date Extracted: 12/20/2012 13:47
Sample wt/vol: 10.31(g)
Date Analyzed: 01/03/2013 16:24
Con. Extract Vol.: .5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: VF-624MS ID: 0.25(mm)
% Moisture: 36.1
GPC Cleanup:(Y/N) N
Analysis Batch No.: 8232
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
62-75-9	N-Nitrosodimethylamine	ND		7.6	1.2

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17829-25-9	N-Nitrosodimethylamine-d6	101		50-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\IT1\20130103-2068.b\480-30406-B-1-A, 1-3-2013, 4-24-13 PM.d		
Lims ID:	480-30406-B-1-A	Client ID:	OC-SD-SD-503-XXX
Inject. Date:	03-Jan-2013 16:24:14	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:			
Misc. Info.:			
Operator:		Instrument ID:	IT1
Injection Vol:	20.0 ul	ALS Bottle#:	0
Lims Batch ID:	8232	Lims Sample ID:	5
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\SACCHROM\ChromData\IT1\20130103-2068.b\NDMA_IT1.m		
Last Update:	04-Jan-2013 11:58:27	Calib Date:	04-Dec-2012 20:21:32
Quant Method:	Isotopic Dilution	Quant By:	Initial Calibration
Last ICal File:	\\SACCHROM\ChromData\IT1\20121204-1670.b\CS-8...200pg-uL, 12-4-2012, 8-21-31 PM.d		
Limit Group:	MSS - NDMA_CIMSMS - ICAL		
Integrator:	Falcon	ID Type:	RT Order ID
Column Type:	VF-624MS	Column Dia:	0.25 mm
Process Host:	XAWRK029		

First Level Reviewer: nihartv Date: 04-Jan-2013 11:48:56

Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ng/ml	Ratio Range	Ratio	S/N	Flags
D 1 N-Nitrosodimethylamine-d6										
50	12.128	12.206	-0.078	62	465158	201.8	100.0- 100.0	100.0		
81	12.103	12.206	-0.103		236063		303.0- 303.0	50.7		
2 N-Nitrosodimethylamine										M
43	12.087	12.257	-0.170	1	2671		100.0- 100.0	100.0	7.7	M
47	12.137	12.257	-0.120		46835		70.8- 70.8	1753.5		M
	Summary Peak				49506	9.09				
* 5 2-Chloropyridine										
110	16.833	16.855	-0.022	84	4683107	400.0	100.0- 100.0	100.0		
116	16.833	16.855	-0.022		4071052		83.2- 83.2	86.9		
D 6 N-Nitrosodi-n-propylamine-d14										
97	20.779	20.787	-0.008	86	1114188	162.2				
8 N-Nitrosopyrrolidine										
55	21.810	21.753	0.057	78	223947	28.4			Infinity	
9 N-Nitrosopiperidine										
68	22.646	22.695	-0.049	56	181609	12.6			135	

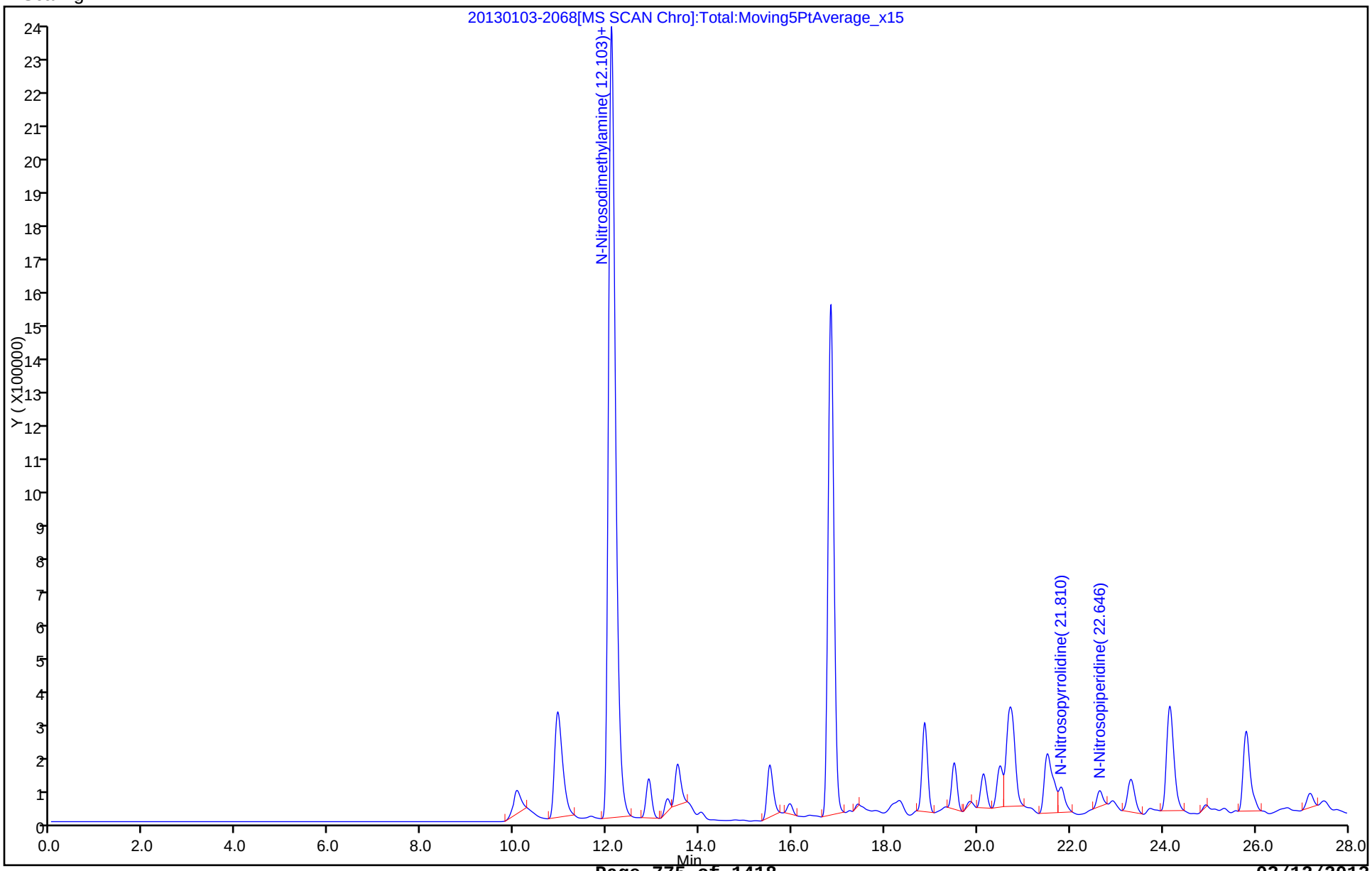
QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 04-Jan-2013 11:58:29 Chrom Revision: 2.1 03-Jan-2013 18:41:16

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\IT1\20130103-2068.b\480-30406-B-1-A, 1-3-2013, 4-24-13 PM.d		
Injection Date:	03-Jan-2013 16:24:14	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:	OC-SD-SD-503-XXX	Instrument ID:	IT1
Lims Batch ID:	8232	Lims Sample ID:	5
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm
Y Scaling:			



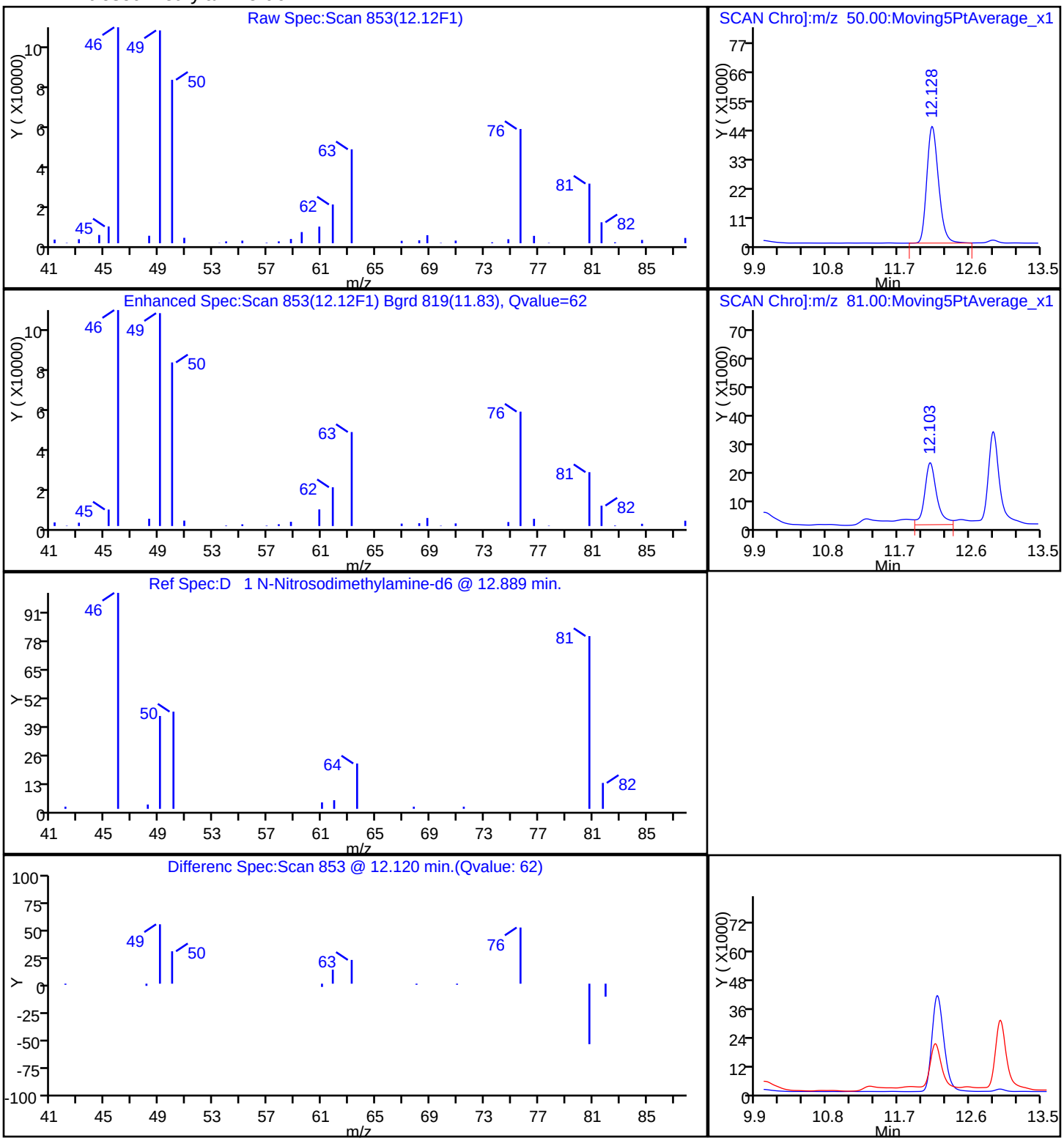
Report Date: 04-Jan-2013 11:58:29 Chrom Revision: 2.1 03-Jan-2013 18:41:16

TestAmerica Sacramento

Data File: \\SACCHROM\ChromData\IT1\20130103-2068.b\480-30406-B-1-A, 1-3-2013, 4-24-13 PM.d

Injection Date:	03-Jan-2013 16:24:14	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:	OC-SD-SD-503-XXX	Instrument ID:	IT1
Lims Batch ID:	8232	Lims Sample ID:	5
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm

D 1 N-Nitrosodimethylamine-d6



Manual Integration/User Assign Peak Report

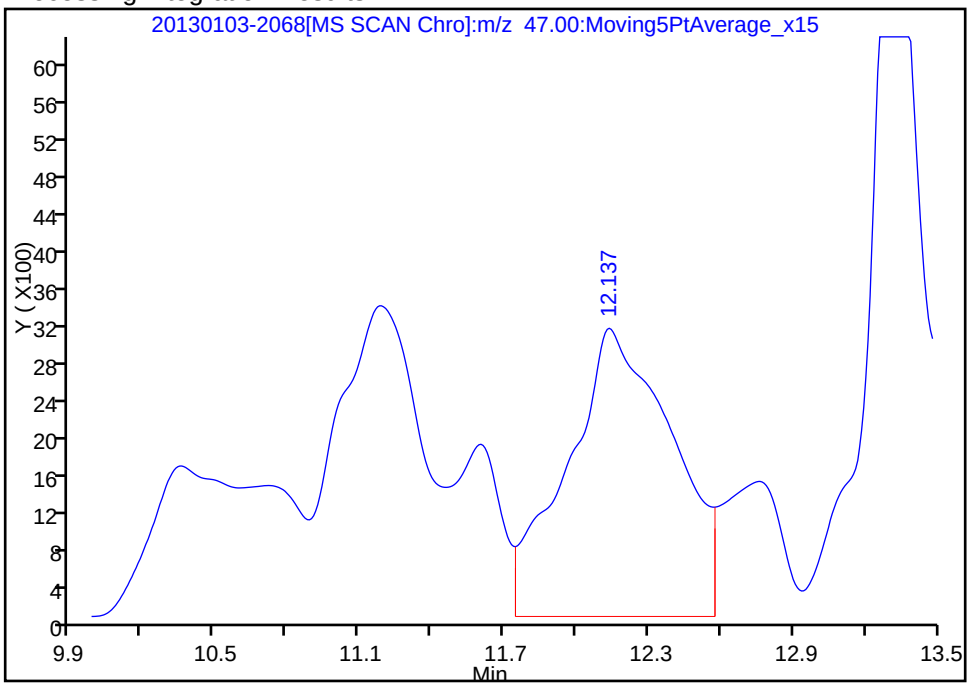
TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\IT1\20130103-2068.b\480-30406-B-1-A, 1-3-2013, 4-24-13 PM.d		
Injection Date:	03-Jan-2013 16:24:14	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:	OC-SD-SD-503-XXX	Instrument ID:	IT1
Lims Batch ID:	8232	Lims Sample ID:	5
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm

2 N-Nitrosodimethylamine, Signal: 2, m/z: 47.0 Type: quant, RT: 12.26

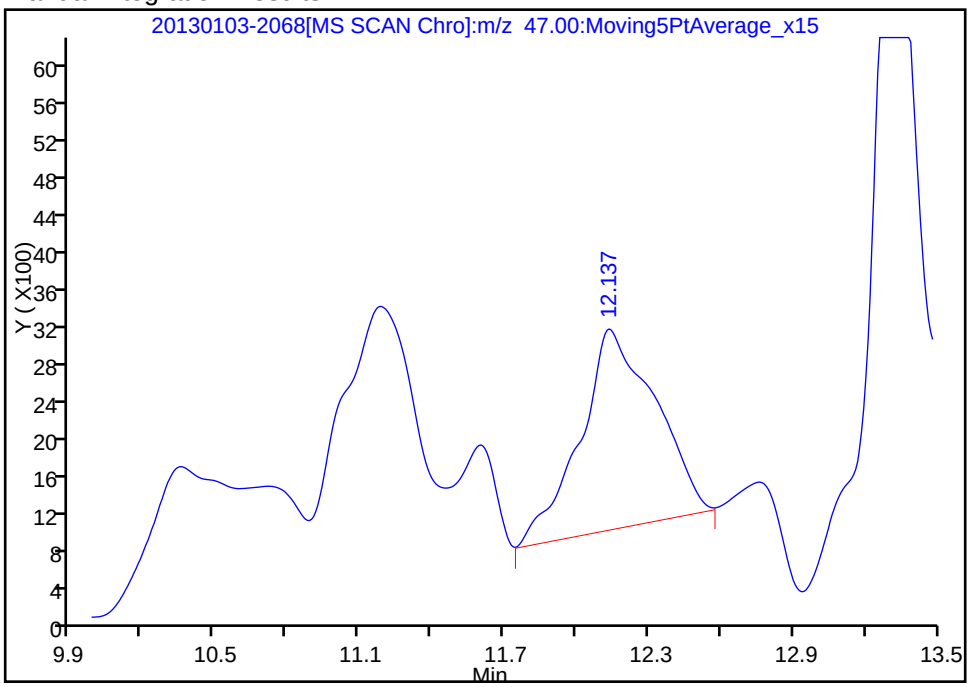
Processing Integration Results

RT: 12.14
Response: 93874
Amount: 46.959727



Manual Integration Results

RT: 12.14
Response: 46835
Amount: 23.428839



Reviewer: nihartv, 04-Jan-2013 11:48:56
Audit Action: Manually Integrated
Audit Reason: Baseline

Report Date: 04-Jan-2013 11:58:29 Chrom Revision: 2.1 03-Jan-2013 18:41:16

Manual Integration/User Assign Peak Report

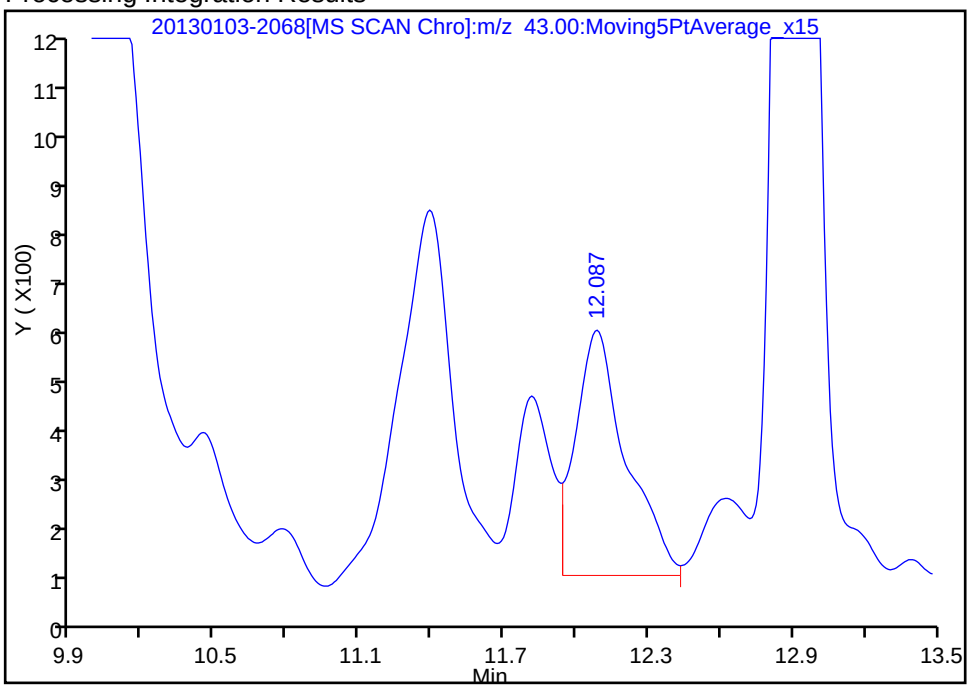
TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\IT1\20130103-2068.b\480-30406-B-1-A, 1-3-2013, 4-24-13 PM.d		
Injection Date:	03-Jan-2013 16:24:14	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:	OC-SD-SD-503-XXX	Instrument ID:	IT1
Lims Batch ID:	8232	Lims Sample ID:	5
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm

2 N-Nitrosodimethylamine, Signal: 1, m/z: 43.0 Type: quant, RT: 12.26

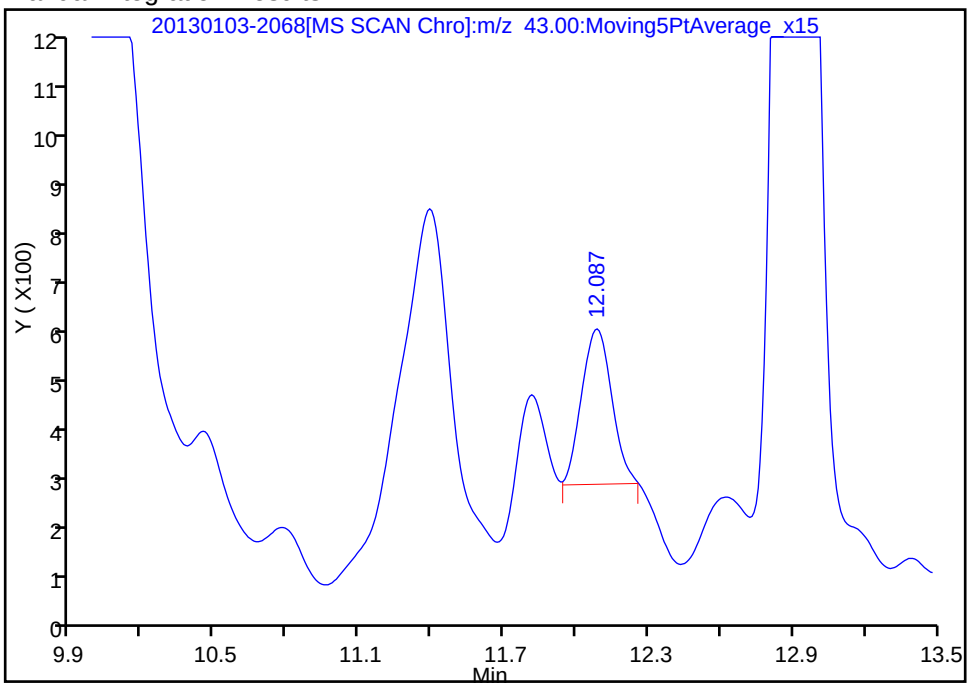
Processing Integration Results

RT: 12.09
Response: 6991
Amount: 2.348603



Manual Integration Results

RT: 12.09
Response: 2671
Amount: 0.897313



Reviewer: nihartv, 04-Jan-2013 11:48:56
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 480-30406-1
SDG No.:
Client Sample ID: OC-SD-SD-504-XXX
Lab Sample ID: 480-30406-2
Matrix: Solid
Lab File ID: 480-30406-B-2-A, 1-3-2013,
Analysis Method: GCMSMS_NDMA
Date Collected: 12/17/2012 15:00
Extraction Method: 3550B
Date Extracted: 12/20/2012 13:47
Sample wt/vol: 9.73(g)
Date Analyzed: 01/03/2013 19:33
Con. Extract Vol.: .5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: VF-624MS ID: 0.25(mm)
% Moisture: 43.7
GPC Cleanup:(Y/N) N
Analysis Batch No.: 8232
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
62-75-9	N-Nitrosodimethylamine	ND		9.1	1.4

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17829-25-9	N-Nitrosodimethylamine-d6	94		50-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\IT1\20130103-2068.b\480-30406-B-2-A, 1-3-2013, 7-33-01 PM.d		
Lims ID:	480-30406-B-2-A	Client ID:	OC-SD-SD-504-XXX
Inject. Date:	03-Jan-2013 19:33:02	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:			
Misc. Info.:			
Operator:		Instrument ID:	IT1
Injection Vol:	20.0 ul	ALS Bottle#:	0
Lims Batch ID:	8232	Lims Sample ID:	8
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\SACCHROM\ChromData\IT1\20130103-2068.b\NDMA_IT1.m		
Last Update:	04-Jan-2013 11:58:27	Calib Date:	04-Dec-2012 20:21:32
Quant Method:	Isotopic Dilution	Quant By:	Initial Calibration
Last ICal File:	\\SACCHROM\ChromData\IT1\20121204-1670.b\CS-8...200pg-uL, 12-4-2012, 8-21-31 PM.d		
Limit Group:	MSS - NDMA_CIMSMS - ICAL		
Integrator:	Falcon	ID Type:	RT Order ID
Column Type:	VF-624MS	Column Dia:	0.25 mm
Process Host:	XAWRK029		

First Level Reviewer: nihartv Date: 04-Jan-2013 11:56:41

Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ng/ml	Ratio Range	Ratio	S/N	Flags
D 1 N-Nitrosodimethylamine-d6										
50	12.153	12.206	-0.053	52	276820	187.0	100.0- 100.0	100.0		
81	12.136	12.206	-0.070		78116		303.0- 303.0	28.2		
2 N-Nitrosodimethylamine										M
43	12.136	12.257	-0.121	1	7412		100.0- 100.0	100.0	0.8	
47	12.144	12.257	-0.113		9313		70.8- 70.8	125.6		M
	Summary Peak				16725	5.65				
* 5 2-Chloropyridine										
110	16.863	16.855	0.008	82	3007285	400.0	100.0- 100.0	100.0		
116	16.863	16.855	0.008		3211855		83.2- 83.2	106.8		

QC Flag Legend

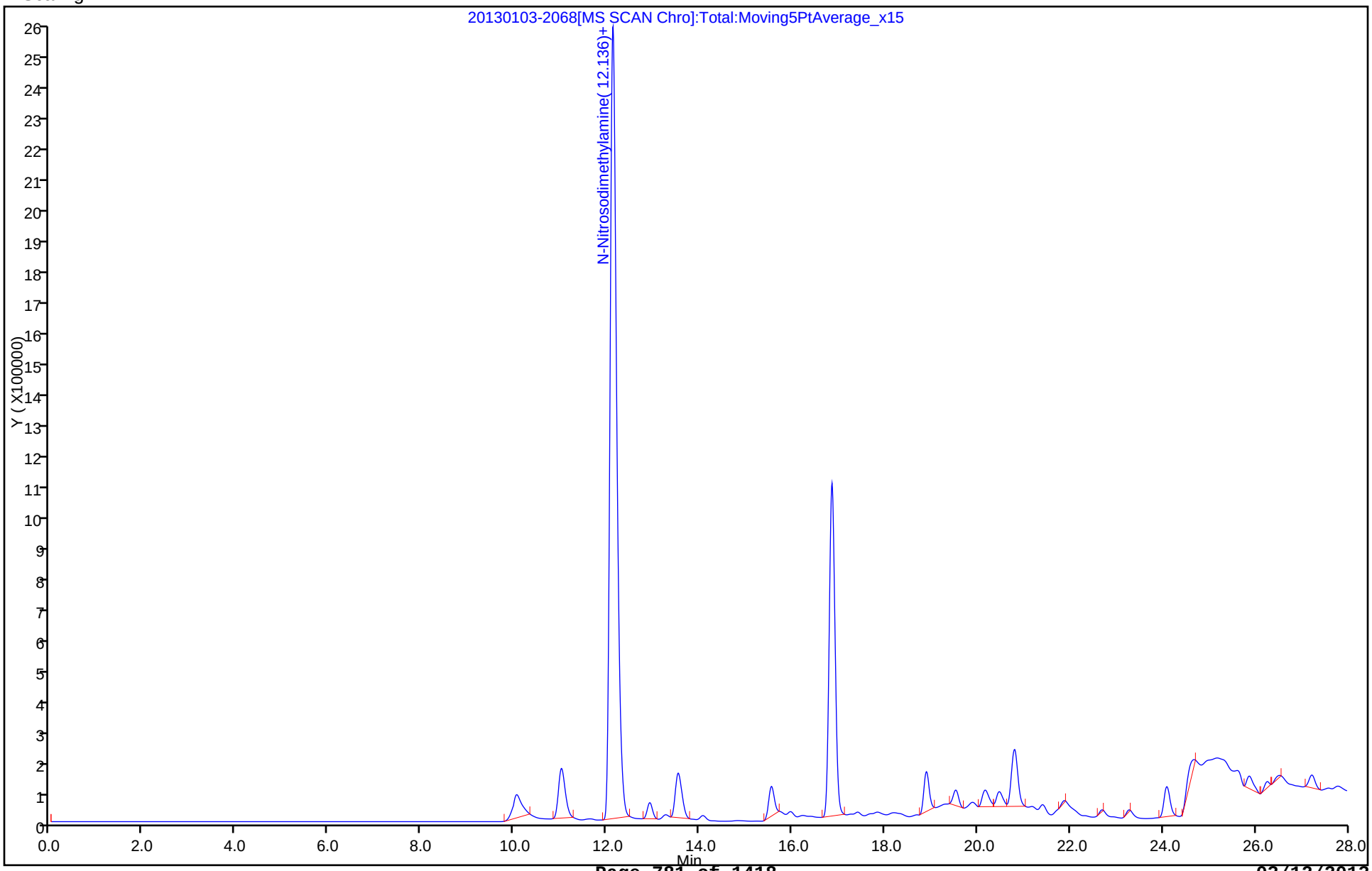
Review Flags
M - Manually Integrated

Report Date: 04-Jan-2013 11:58:30 Chrom Revision: 2.1 03-Jan-2013 18:41:16

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\IT1\20130103-2068.b\480-30406-B-2-A, 1-3-2013, 7-33-01 PM.d		
Injection Date:	03-Jan-2013 19:33:02	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:	OC-SD-SD-504-XXX	Instrument ID:	IT1
Lims Batch ID:	8232	Lims Sample ID:	8
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm

Y Scaling:



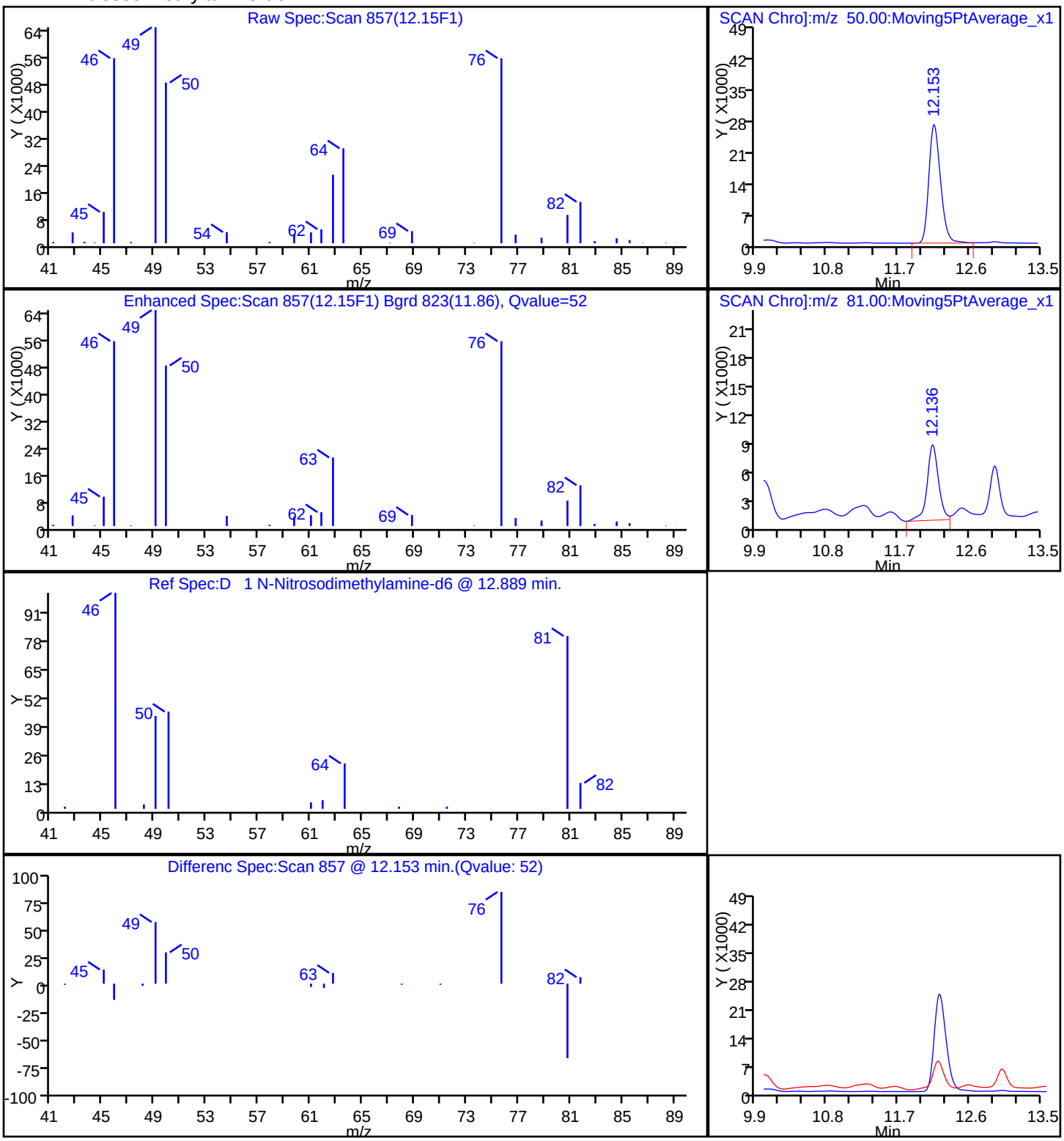
Report Date: 04-Jan-2013 11:58:30 Chrom Revision: 2.1 03-Jan-2013 18:41:16

TestAmerica Sacramento

Data File: \\SACCHROM\ChromData\IT1\20130103-2068.b\480-30406-B-2-A, 1-3-2013, 7-33-01 PM.d

Injection Date:	03-Jan-2013 19:33:02	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:	OC-SD-SD-504-XXX	Instrument ID:	IT1
Lims Batch ID:	8232	Lims Sample ID:	8
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm

D 1 N-Nitrosodimethylamine-d6



Report Date: 04-Jan-2013 11:58:31 Chrom Revision: 2.1 03-Jan-2013 18:41:16

Manual Integration/User Assign Peak Report

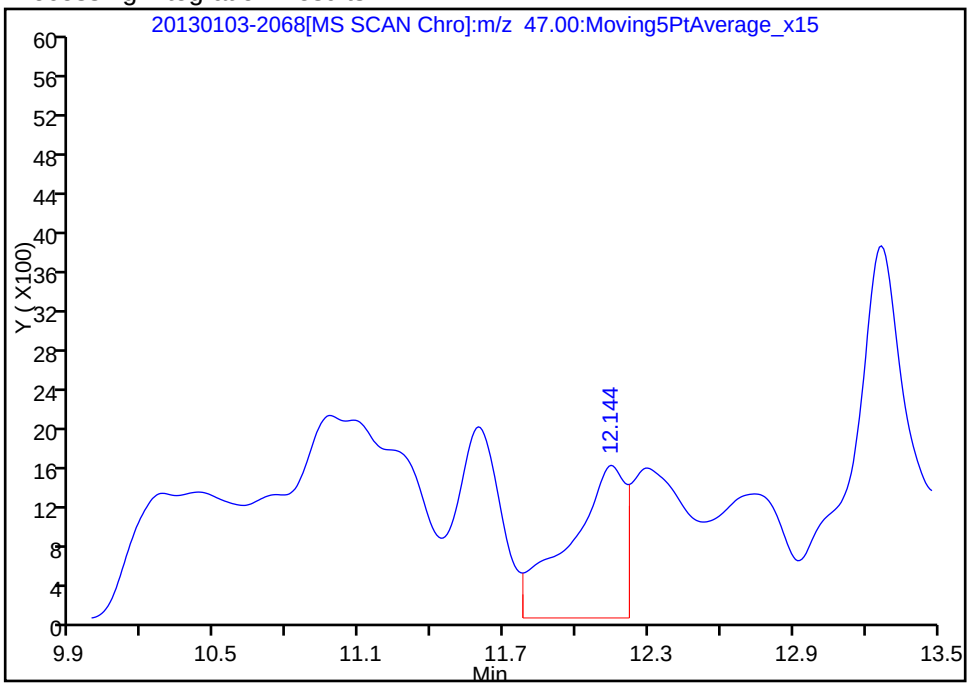
TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\IT1\20130103-2068.b\480-30406-B-2-A, 1-3-2013, 7-33-01 PM.d		
Injection Date:	03-Jan-2013 19:33:02	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:	OC-SD-SD-504-XXX	Instrument ID:	IT1
Lims Batch ID:	8232	Lims Sample ID:	8
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm

2 N-Nitrosodimethylamine, Signal: 2, m/z: 47.0 Type: quant, RT: 12.26

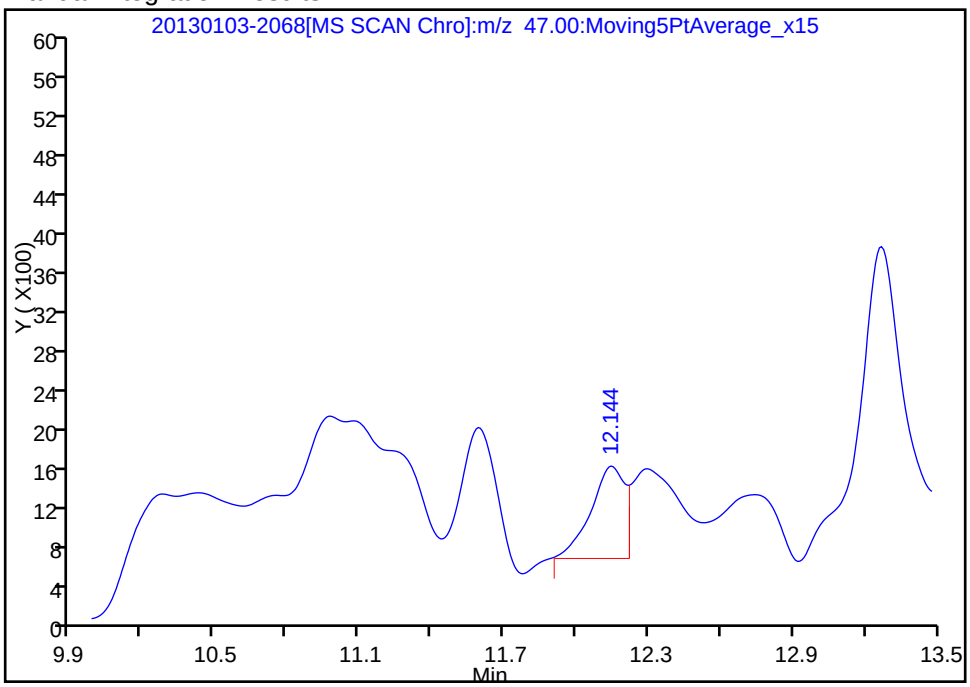
Processing Integration Results

RT: 12.14
Response: 25114
Amount: 21.110531



Manual Integration Results

RT: 12.14
Response: 9313
Amount: 7.828398



Reviewer: nihartv, 04-Jan-2013 11:56:41
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 480-30406-1
SDG No.:
Client Sample ID: OC-SD-SD-501-XXX
Lab Sample ID: 480-30406-3
Matrix: Solid
Lab File ID: 480-30406-B-3-A, 1-3-2013,
Analysis Method: GCMSMS_NDMA
Date Collected: 12/17/2012 12:15
Extraction Method: 3550B
Date Extracted: 12/20/2012 13:47
Sample wt/vol: 10.18(g)
Date Analyzed: 01/03/2013 20:36
Con. Extract Vol.: .5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: VF-624MS ID: 0.25(mm)
% Moisture: 28.5
GPC Cleanup:(Y/N) N
Analysis Batch No.: 8232
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
62-75-9	N-Nitrosodimethylamine	ND		6.9	1.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17829-25-9	N-Nitrosodimethylamine-d6	88		50-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\IT1\20130103-2068.b\480-30406-B-3-A, 1-3-2013, 8-35-59 PM.d		
Lims ID:	480-30406-B-3-A	Client ID:	OC-SD-SD-501-XXX
Inject. Date:	03-Jan-2013 20:36:00	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:			
Misc. Info.:			
Operator:		Instrument ID:	IT1
Injection Vol:	20.0 ul	ALS Bottle#:	0
Lims Batch ID:	8232	Lims Sample ID:	9
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\SACCHROM\ChromData\IT1\20130103-2068.b\NDMA_IT1.m		
Last Update:	04-Jan-2013 11:58:27	Calib Date:	04-Dec-2012 20:21:32
Quant Method:	Isotopic Dilution	Quant By:	Initial Calibration
Last ICal File:	\\SACCHROM\ChromData\IT1\20121204-1670.b\CS-8...200pg-uL, 12-4-2012, 8-21-31 PM.d		
Limit Group:	MSS - NDMA_CIMSMS - ICAL		
Integrator:	Falcon	ID Type:	RT Order ID
Column Type:	VF-624MS	Column Dia:	0.25 mm
Process Host:	XAWRK029		

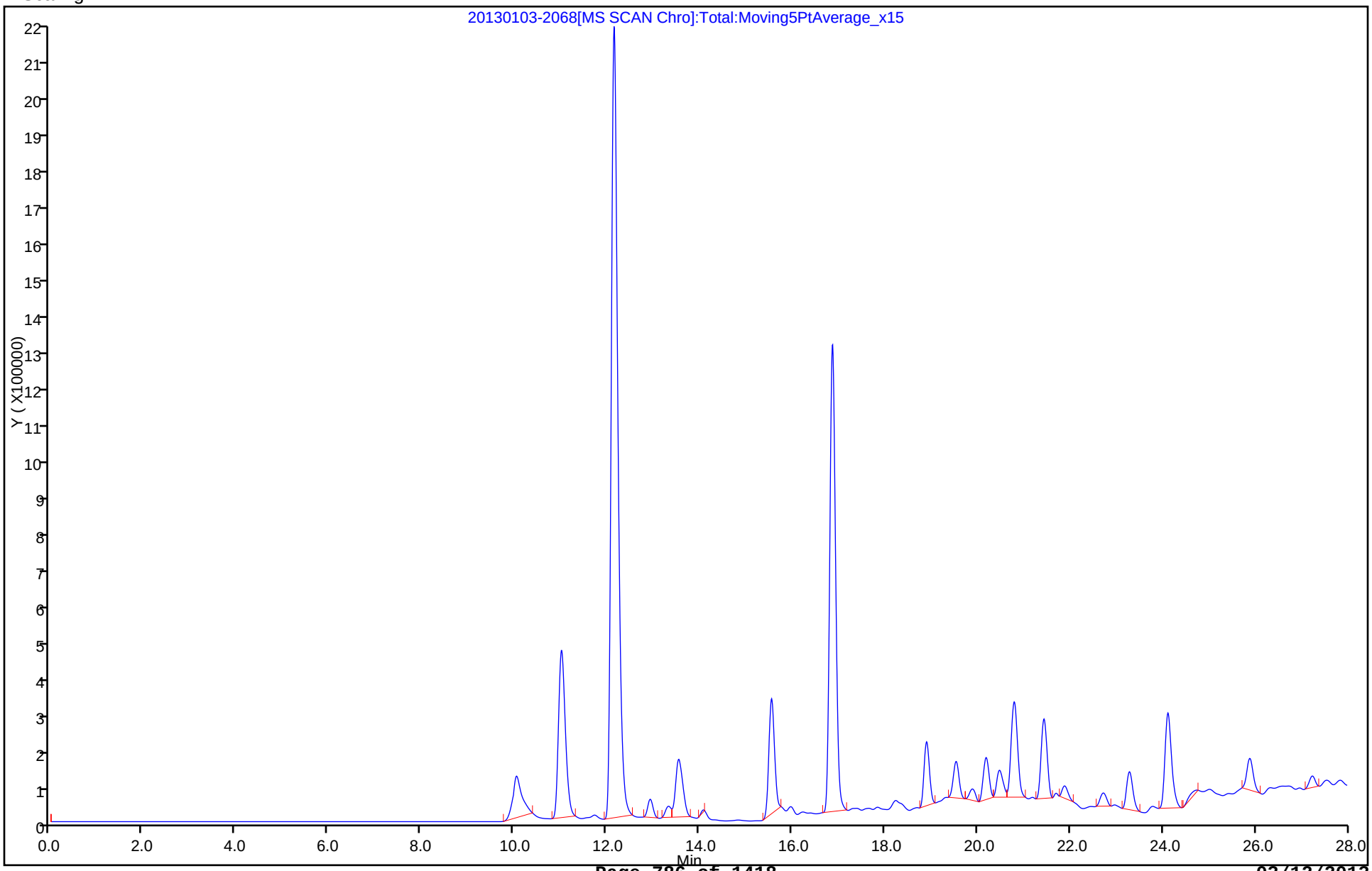
First Level Reviewer: nihartv Date: 04-Jan-2013 11:57:12

Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ng/ml	Ratio Range	Ratio	S/N	Flags
D 1 N-Nitrosodimethylamine-d6										
50	12.164	12.206	-0.042	58	305436	175.5	100.0- 100.0	100.0		
81	12.148	12.206	-0.058		74578		303.0- 303.0	24.4		
* 5 2-Chloropyridine										
110	16.868	16.855	0.013	72	3536686	400.0	100.0- 100.0	100.0		
116	16.868	16.855	0.013		3716951		83.2- 83.2	105.1		

Report Date: 04-Jan-2013 11:58:31 Chrom Revision: 2.1 03-Jan-2013 18:41:16

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\IT1\20130103-2068.b\480-30406-B-3-A, 1-3-2013, 8-35-59 PM.d		
Injection Date:	03-Jan-2013 20:36:00	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:	OC-SD-SD-501-XXX	Instrument ID:	IT1
Lims Batch ID:	8232	Lims Sample ID:	9
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm
Y Scaling:			



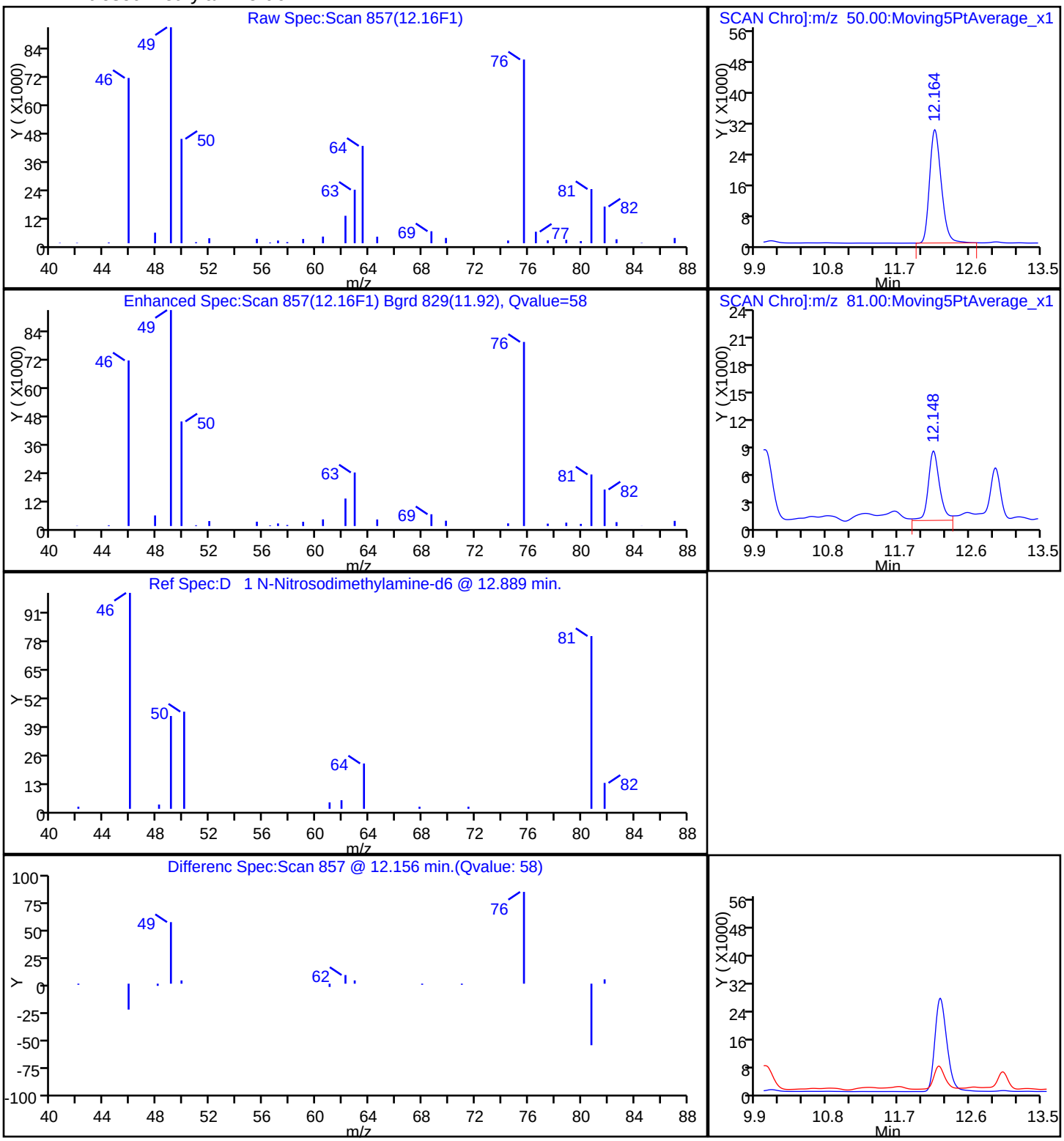
Report Date: 04-Jan-2013 11:58:31 Chrom Revision: 2.1 03-Jan-2013 18:41:16

TestAmerica Sacramento

Data File: \\SACCHROM\ChromData\IT1\20130103-2068.b\480-30406-B-3-A, 1-3-2013, 8-35-59 PM.d

Injection Date:	03-Jan-2013 20:36:00	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:	OC-SD-SD-501-XXX	Instrument ID:	IT1
Lims Batch ID:	8232	Lims Sample ID:	9
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm

D 1 N-Nitrosodimethylamine-d6



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 480-30406-1
SDG No.:
Client Sample ID: OC-SD-SD-502-XXX
Lab Sample ID: 480-30406-4
Matrix: Solid
Lab File ID: 480-30406-B-4-A, 1-7-2013,
Analysis Method: GCMSMS_NDMA
Date Collected: 12/17/2012 12:45
Extraction Method: 3550B
Date Extracted: 12/20/2012 13:47
Sample wt/vol: 10.33(g)
Date Analyzed: 01/07/2013 23:11
Con. Extract Vol.: .5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: VF-624MS ID: 0.25(mm)
% Moisture: 30.6
GPC Cleanup:(Y/N) N
Analysis Batch No.: 8340
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
62-75-9	N-Nitrosodimethylamine	ND		7.0	1.1

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17829-25-9	N-Nitrosodimethylamine-d6	129		50-150

TestAmerica West Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\IT1\20130107-2107.b\480-30406-B-4-A, 1-7-2013, 11-11-57 PM.d		
Lims ID:	480-30406-B-4-A	Client ID:	OC-SD-SD-502-XXX
Inject. Date:	07-Jan-2013 23:11:58	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:			
Misc. Info.:			
Operator:		Instrument ID:	IT1
Injection Vol:	20.0 ul	ALS Bottle#:	0
Lims Batch ID:	8340	Lims Sample ID:	8
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\SACCHROM\ChromData\IT1\20130107-2107.b\NDMA_IT1.m		
Last Update:	08-Jan-2013 11:17:53	Calib Date:	04-Dec-2012 20:21:32
Quant Method:	Isotopic Dilution	Quant By:	Initial Calibration
Last ICal File:	\\SACCHROM\ChromData\IT1\20121204-1670.b\CS-8...200pg-uL, 12-4-2012, 8-21-31 PM.d		
Limit Group:	MSS - NDMA_CIMSMS - ICAL		
Integrator:	Falcon	ID Type:	RT Order ID
Column Type:	VF-624MS	Column Dia:	0.25 mm
Process Host:	XAWRK023		

First Level Reviewer: nihartv Date: 08-Jan-2013 11:17:53

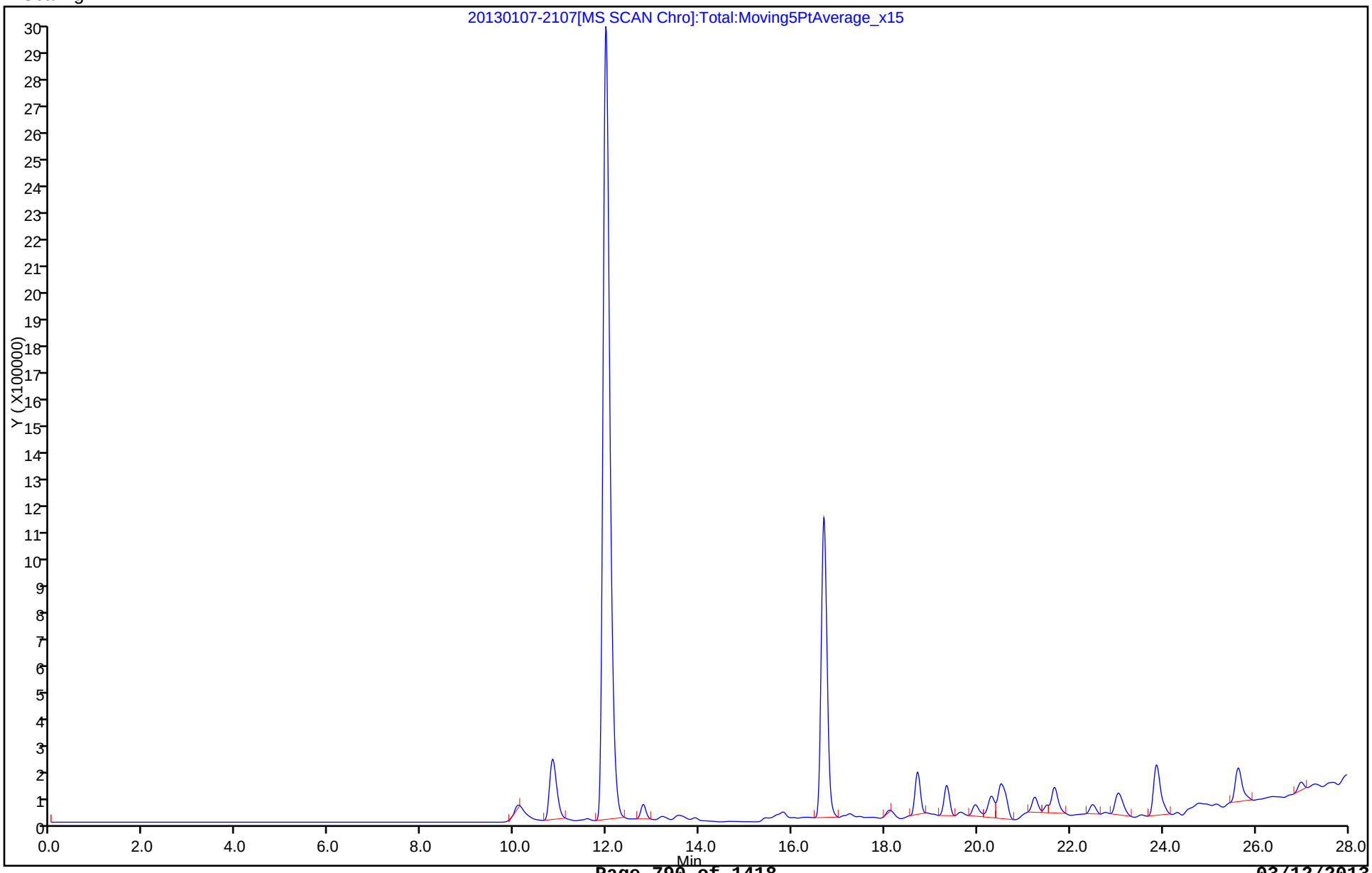
Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ng/ml	Ratio Range	Ratio	S/N	Flags
D 1 N-Nitrosodimethylamine-d6										
50	12.057	12.061	-0.004	55	451157	257.2	100.0- 100.0	100.0		
81	12.057	12.061	-0.004		40700		303.0- 303.0	9.0		
* 5 2-Chloropyridine										
110	16.687	16.693	-0.006	82	3563841	400.0	100.0- 100.0	100.0		
116	16.687	16.693	-0.006		2945212		83.2- 83.2	82.6		

Report Date: 08-Jan-2013 11:17:54 Chrom Revision: 2.1 03-Jan-2013 18:41:16

TestAmerica West Sacramento

Data File:	\\SACCHROM\ChromData\IT1\20130107-2107.b\480-30406-B-4-A, 1-7-2013, 11-11-57 PM.d		
Injection Date:	07-Jan-2013 23:11:58	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:	OC-SD-SD-502-XXX	Instrument ID:	IT1
Lims Batch ID:	8340	Lims Sample ID:	8
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm

Y Scaling:

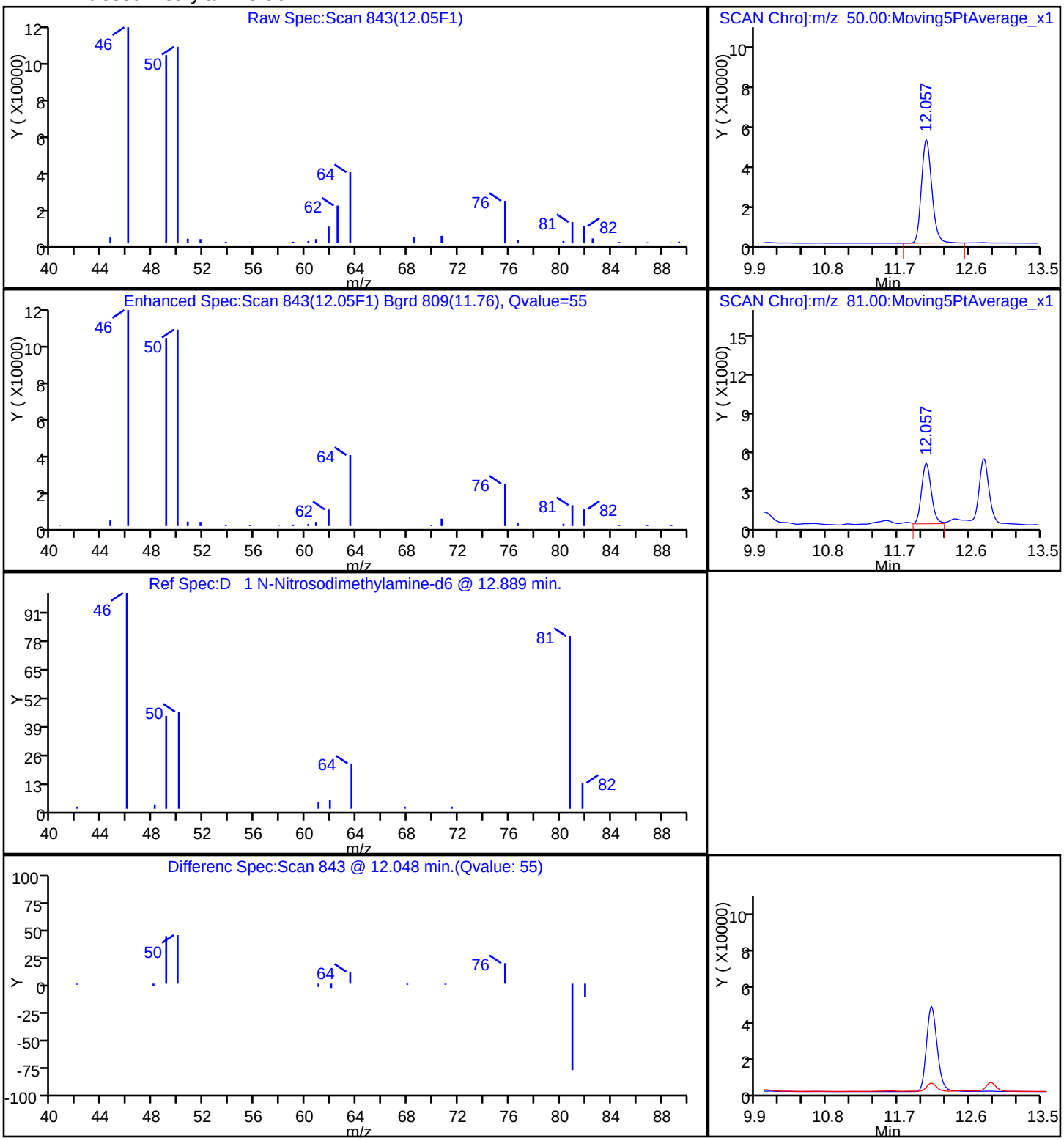


Report Date: 08-Jan-2013 11:17:54 Chrom Revision: 2.1 03-Jan-2013 18:41:16

TestAmerica West Sacramento

Data File:	\\SACCHROM\ChromData\IT1\20130107-2107.b\480-30406-B-4-A, 1-7-2013, 11-11-57 PM.d		
Injection Date:	07-Jan-2013 23:11:58	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:	OC-SD-SD-502-XXX	Instrument ID:	IT1
Lims Batch ID:	8340	Lims Sample ID:	8
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm

D 1 N-Nitrosodimethylamine-d6



FORM VI
LCMS INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 480-30406-1 Analy Batch No.: 6853

SDG No.:

Instrument ID: IT1 GC Column: VF-624MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2012 14:25 Calibration End Date: 12/04/2012 20:21 Calibration ID: 1750

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 320-6853/4	CS-1...1.0pg-uL,
Level 2	STD02 320-6853/5	CS-2...2.0pg-uL,
Level 3	STD03 320-6853/6	CS-3...5.0pg-uL,
Level 4	STD04 320-6853/7	CS-4...10pg-uL,
Level 5	STD05 320-6853/8	CS-5...20pg-uL,
Level 6	STD06 320-6853/9	CS-6...50pg-uL,
Level 7	STD07 320-6853/10	CS-7...100pg-uL,
Level 8	STD08 320-6853/11	CS-8...200pg-uL,

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
N-Nitrosodimethylamine	+++++ 4784.0	2273.5 5284.9	3796.0 6069.1	4667.7	4513.2	L2ID	-3.081	2.6818							0.9950		0.9900
N-Nitrosomethylethylamine	5755.0 6154.9	5333.5 6590.1	5705.4 7050.7	6590.6	6019.0	AveID		3.1835				8.6		30.0			
N-Nitrosodiethylamine	3304.0 2528.2	2938.5 2595.5	3121.6 2487.8	3457.5	2712.1	AveID		1.5064				17.0		30.0			
N-Nitrosodi-n-propylamine	8977.0 7202.0	7867.5 7480.9	7486.0 6403.5	8221.4	7769.5	AveID		1.3415				13.0		30.0			
N-Nitrosopyrrolidine	6425.0 9448.5	7473.0 8854.4	7143.0 8504.2	8350.8	8804.6	AveID		1.4157				12.0		30.0			
N-Nitrosopiperidine	12953 16522	13104 15372	14095 14094	15727	16626	AveID		2.5796				8.3		30.0			
N-Nitrosodi-n-butylamine	+++++ 7678.8	5081.0 6882.4	5883.4 6892.8	7097.3	7271.0	AveID		1.1508				14.0		30.0			
N-Nitrosodimethylamine-d6	0.1898 0.2007	0.1900 0.1891	0.2066 0.2024	0.1926	0.2037	Ave		0.1969				3.7		40.0			
N-Nitrosodi-n-propylamine-d14	0.5483 0.6254	0.5834 0.5307	0.5926 0.5050	0.6651	0.6433	Ave		0.5867				9.6		40.0			

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

FORM VI
LCMS INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 480-30406-1 Analy Batch No.: 6853

SDG No.:

Instrument ID: IT1 GC Column: VF-624MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2012 14:25 Calibration End Date: 12/04/2012 20:21 Calibration ID: 1750

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 320-6853/4	CS-1...1.0pg-uL,
Level 2	STD02 320-6853/5	CS-2...2.0pg-uL,
Level 3	STD03 320-6853/6	CS-3...5.0pg-uL,
Level 4	STD04 320-6853/7	CS-4...10pg-uL,
Level 5	STD05 320-6853/8	CS-5...20pg-uL,
Level 6	STD06 320-6853/9	CS-6...50pg-uL,
Level 7	STD07 320-6853/10	CS-7...100pg-uL,
Level 8	STD08 320-6853/11	CS-8...200pg-uL,

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
N-Nitrosodimethylamine		L2ID	+++++ 239200	4547 528488	18980 1213826	46677	90263	+++++ 50.0	2.00 100	5.00 200	10.0	20.0
N-Nitrosomethylethylamine		AveID	5755 307746	10667 659010	28527 1410135	65906	120380	1.00 50.0	2.00 100	5.00 200	10.0	20.0
N-Nitrosodiethylamine		AveID	3304 126410	5877 259554	15608 497566	34575	54242	1.00 50.0	2.00 100	5.00 200	10.0	20.0
N-Nitrosodi-n-propylamine		AveID	8977 360099	15735 748087	37430 1280708	82214	155390	1.00 50.0	2.00 100	5.00 200	10.0	20.0
N-Nitrosopyrrolidine		AveID	6425 472427	14946 885444	35715 1700848	83508	176091	1.00 50.0	2.00 100	5.00 200	10.0	20.0
N-Nitrosopiperidine		AveID	12953 826093	26208 1537236	70474 2818820	157268	332522	1.00 50.0	2.00 100	5.00 200	10.0	20.0
N-Nitrosodi-n-butylamine		AveID	+++++ 383941	10162 688240	29417 1378560	70973	145419	+++++ 50.0	2.00 100	5.00 200	10.0	20.0
N-Nitrosodimethylamine-d6		Ave	180899 191937	191897 187560	196684 219295	184042	194781	100 100	100 100	100 100	100	100
N-Nitrosodi-n-propylamine-d14		Ave	522724 597928	589413 526377	564070 547074	635610	615122	100 100	100 100	100 100	100	100

Curve Type Legend:

Ave = Average ISTD
AveID = Average isotope dilution
L2ID = Linear 1/conc^2 IsoDil

TestAmerica West Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\IT1\20121204-1670.b\CS-1...1.0pg-uL, 12-4-2012, 2-25-44 PM.d		
Lims ID:	STD01 CS-1	Client ID:	
Inject. Date:	04-Dec-2012 14:25:45	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:			
Misc. Info.:			
Operator:		Instrument ID:	IT1
Injection Vol:	20.0 ul	ALS Bottle#:	0
Lims Batch ID:	6853	Lims Sample ID:	4
Sublist:	chrom-NDMA_IT1*sub1		
Raw Data:	Smoothed		
Detector:	MS SCAN		
Method:	\\SACCHROM\ChromData\IT1\20121204-1670.b\NDMA_IT1.m		
Last Update:	05-Dec-2012 11:59:17	Calib Date:	04-Dec-2012 20:21:32
Quant Method:	Isotopic Dilution	Quant By:	Initial Calibration
Last ICal File:	\\SACCHROM\ChromData\IT1\20121204-1670.b\CS-8...200pg-uL, 12-4-2012, 8-21-31 PM.d		
Limit Group:	MSS - NDMA_CIMSMS - ICAL		
Integrator:	Falcon	ID Type:	RT Order ID
Column Type:	VF-624MS	Column Dia:	0.25 mm
Process Host:	XAWRK025		

First Level Reviewer: nihartv Date: 04-Dec-2012 16:16:53

Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ng/ml	Ratio Range	Ratio	S/N	Flags
D 1 N-Nitrosodimethylamine-d6										
50	12.219	12.210	0.009	57	180899	96.4	100.0- 100.0	100.0		
81	12.203	12.210	-0.007		782508		303.0- 303.0	432.6		
2 N-Nitrosodimethylamine										M
43	12.286	12.271	0.015	1	1738		100.0- 100.0	100.0	82.0	M
47	12.178	12.271	-0.093		196		70.8- 70.8	11.3		M
	Summary Peak				1934	1.55				
3 N-Nitrosomethylethylamine										
61	14.465	14.416	0.048	80	5755	1.00			Infinity	
4 N-Nitrosodiethylamine										
75	16.269	16.245	0.024	48	3304	1.21			Infinity	
* 5 2-Chloropyridine										
110	16.890	16.881	0.009	83	1906624	200.0	100.0- 100.0	100.0		
116	16.890	16.881	0.009		1625270		83.2- 83.2	85.2		
D 6 N-Nitrosodi-n-propylamine-d14										
97	20.817	20.813	0.004	68	522724	93.5				
7 N-Nitrosodi-n-propylamine										
89	21.037	21.018	0.019	38	8977	1.28			132	
8 N-Nitrosopyrrolidine										
55	21.843	21.777	0.066	23	6425	0.8682			86.3	
9 N-Nitrosopiperidine										
68	22.752	22.716	0.036	55	12953	0.9606			232	

Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ng/ml	Ratio Range	Ratio	S/N	Flags
10 N-Nitrosodi-n-butylamine										M
57	26.154	26.136	0.018	20	484		100.0- 100.0	100.0	69.0	M
103	26.154	26.136	0.018		2929		609.7- 609.7	605.2		M
	Summary Peak				3413	0.5674				

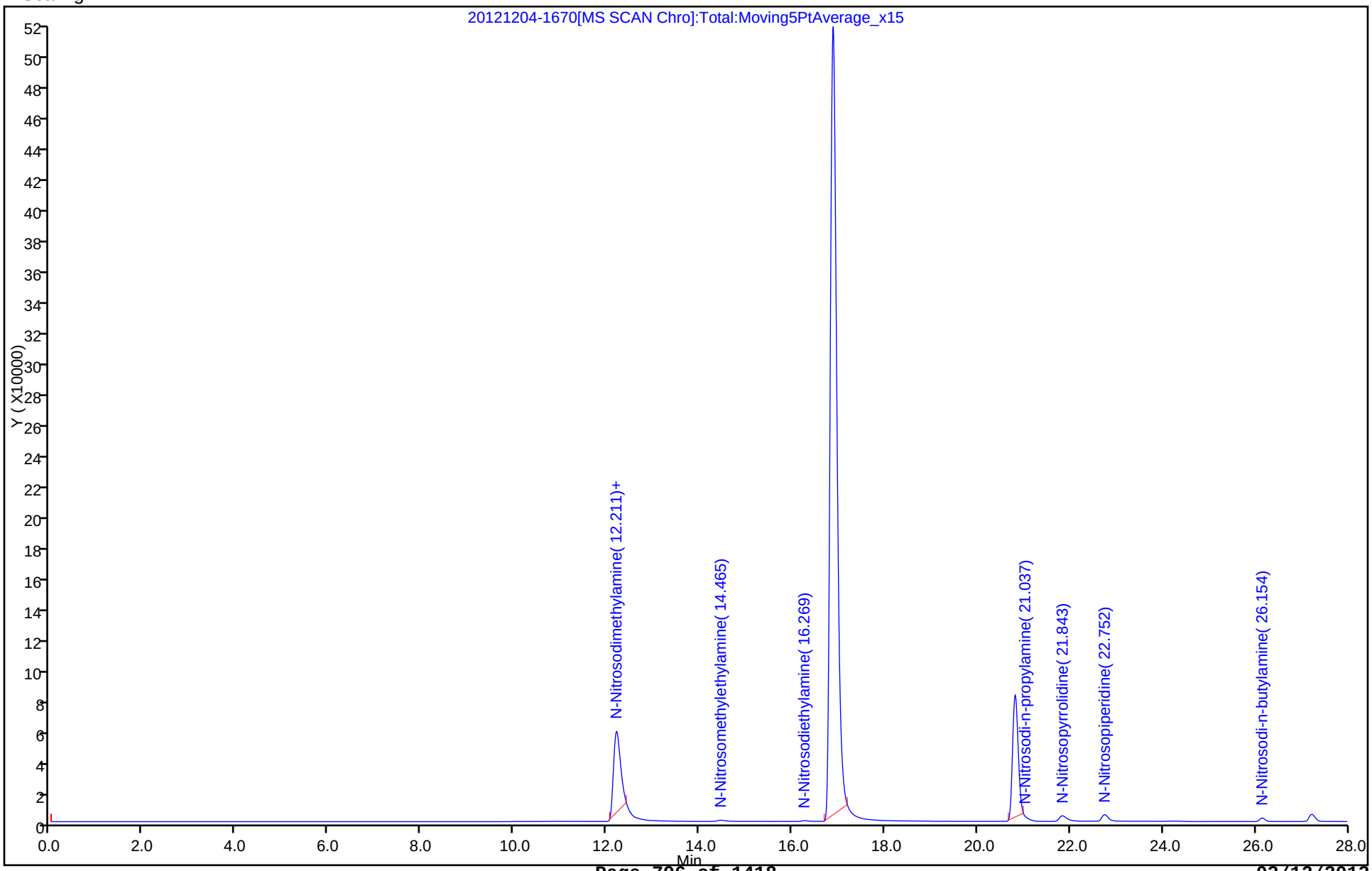
QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 05-Dec-2012 11:59:17 Chrom Revision: 2.1 03-Dec-2012 11:37:40

TestAmerica West Sacramento

Data File:	\\SACCHROM\ChromData\IT1\20121204-1670.b\CS-1...1.0pg-uL, 12-4-2012, 2-25-44 PM.d		
Injection Date:	04-Dec-2012 14:25:45	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:		Instrument ID:	IT1
Lims Batch ID:	6853	Lims Sample ID:	4
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm
Y Scaling:			



Report Date: 05-Dec-2012 11:59:17 Chrom Revision: 2.1 03-Dec-2012 11:37:40

Manual Integration/User Assign Peak Report

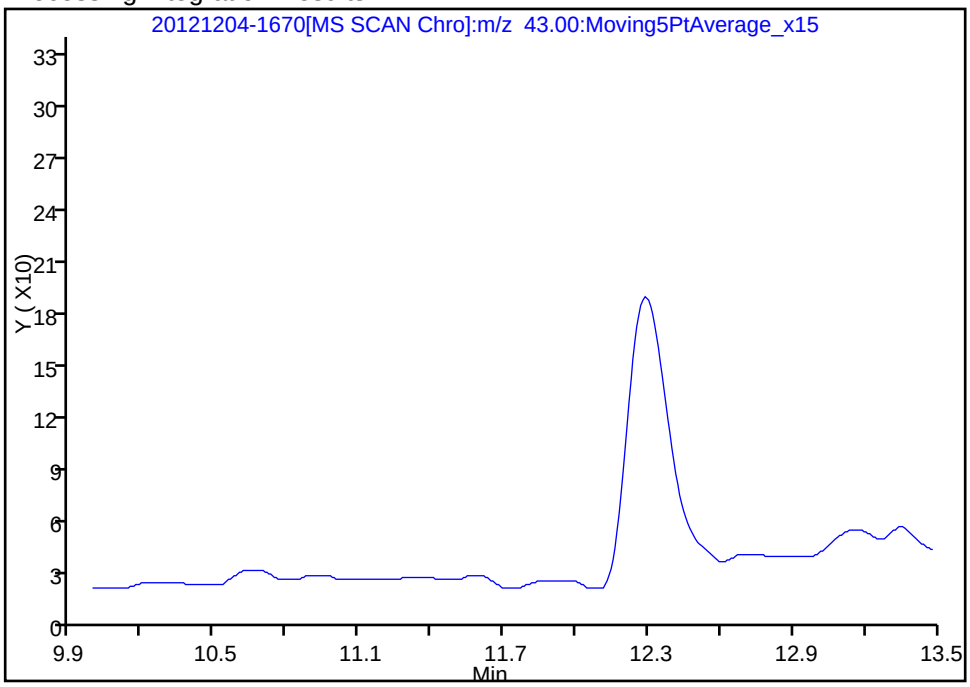
TestAmerica West Sacramento

Data File:	\\SACCHROM\ChromData\IT1\20121204-1670.b\CS-1...1.0pg-uL, 12-4-2012, 2-25-44 PM.d		
Injection Date:	04-Dec-2012 14:25:45	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:		Instrument ID:	IT1
Lims Batch ID:	6853	Lims Sample ID:	4
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm

2 N-Nitrosodimethylamine, Signal: 1, m/z: 43.0 Type: quant, RT: 12.27

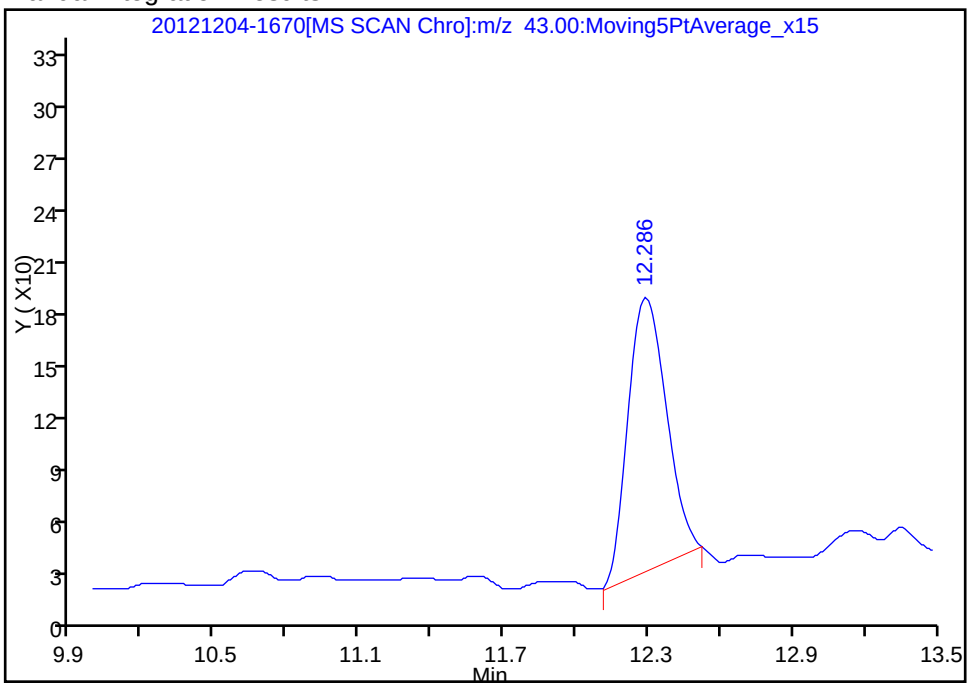
Processing Integration Results

Not Detected
Expected RT: 12.27



Manual Integration Results

RT: 12.29
Response: 1738
Amount: 0.750679



Reviewer: nihartv, 05-Dec-2012 11:18:31
Audit Action: Manually Integrated
Audit Reason: Baseline

Report Date: 05-Dec-2012 11:59:17 Chrom Revision: 2.1 03-Dec-2012 11:37:40

Manual Integration/User Assign Peak Report

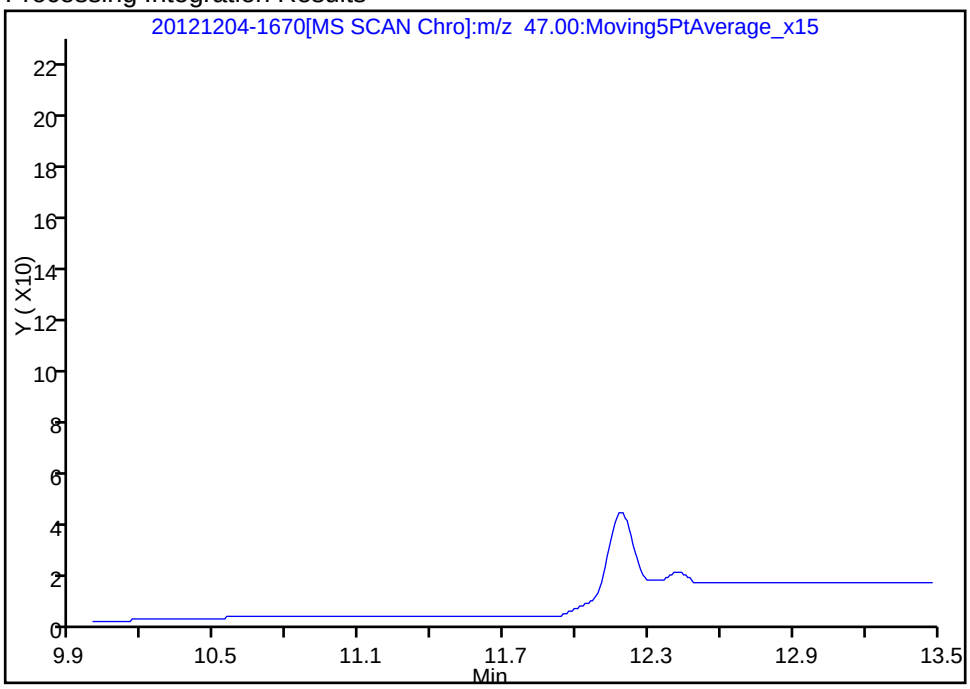
TestAmerica West Sacramento

Data File:	\\SACCHROM\ChromData\IT1\20121204-1670.b\CS-1...1.0pg-uL, 12-4-2012, 2-25-44 PM.d		
Injection Date:	04-Dec-2012 14:25:45	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:		Instrument ID:	IT1
Lims Batch ID:	6853	Lims Sample ID:	4
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm

2 N-Nitrosodimethylamine, Signal: 2, m/z: 47.0 Type: quant, RT: 12.27

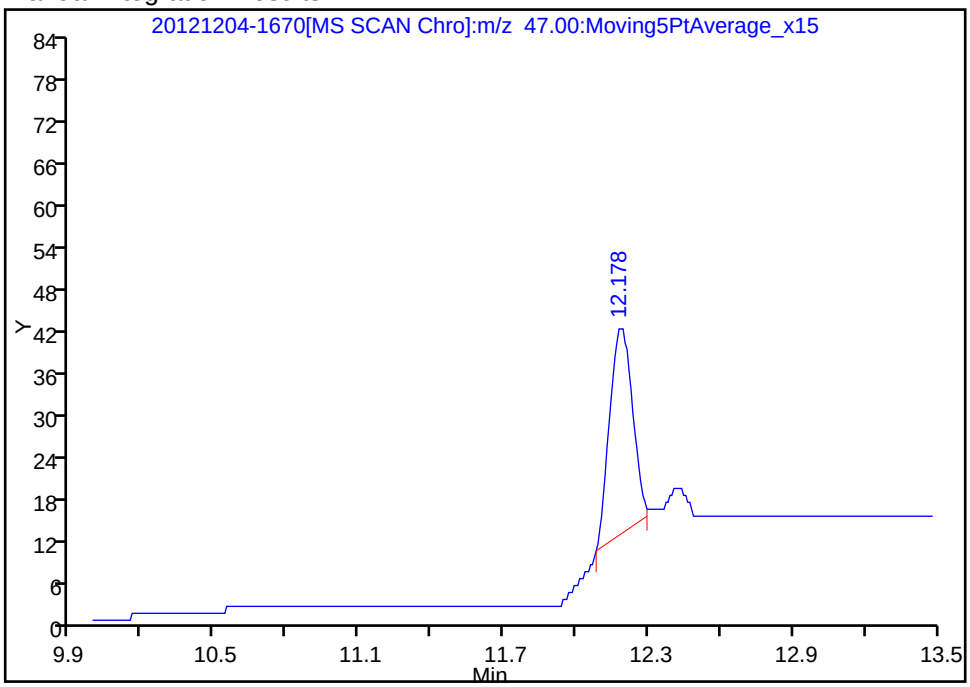
Processing Integration Results

Not Detected
Expected RT: 12.27



Manual Integration Results

RT: 12.18
Response: 196
Amount: 0.126058



Reviewer: nihartv, 05-Dec-2012 11:18:31
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

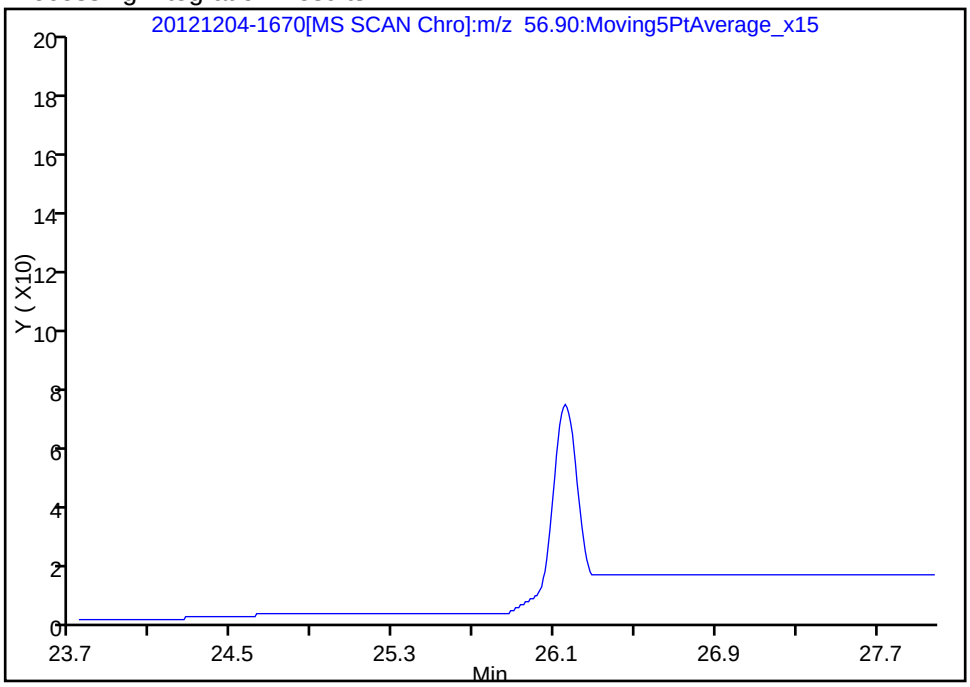
TestAmerica West Sacramento

Data File:	\\SACCHROM\ChromData\IT1\20121204-1670.b\CS-1...1.0pg-uL, 12-4-2012, 2-25-44 PM.d		
Injection Date:	04-Dec-2012 14:25:45	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:		Instrument ID:	IT1
Lims Batch ID:	6853	Lims Sample ID:	4
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm

10 N-Nitrosodi-n-butylamine, Signal: 1, m/z: 56.9 Type: quant, RT: 26.14

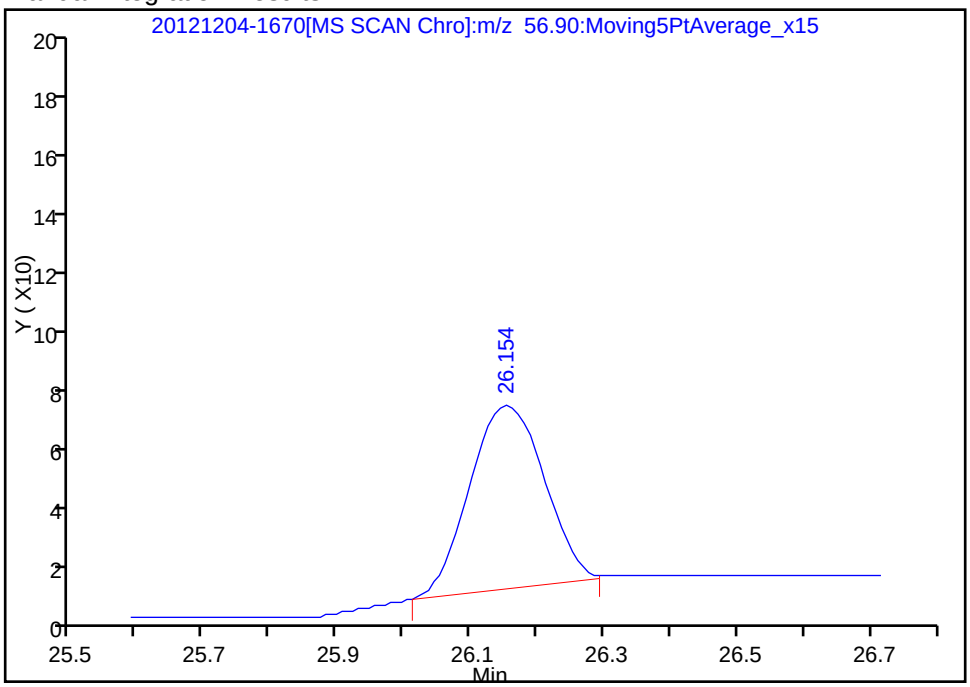
Processing Integration Results

Not Detected
Expected RT: 26.14



Manual Integration Results

RT: 26.15
Response: 484
Amount: 0.574460



Reviewer: nihartv, 04-Dec-2012 16:16:53
Audit Action: Manually Integrated
Audit Reason: Peak Not Integrated

Report Date: 05-Dec-2012 11:59:17 Chrom Revision: 2.1 03-Dec-2012 11:37:40

Manual Integration/User Assign Peak Report

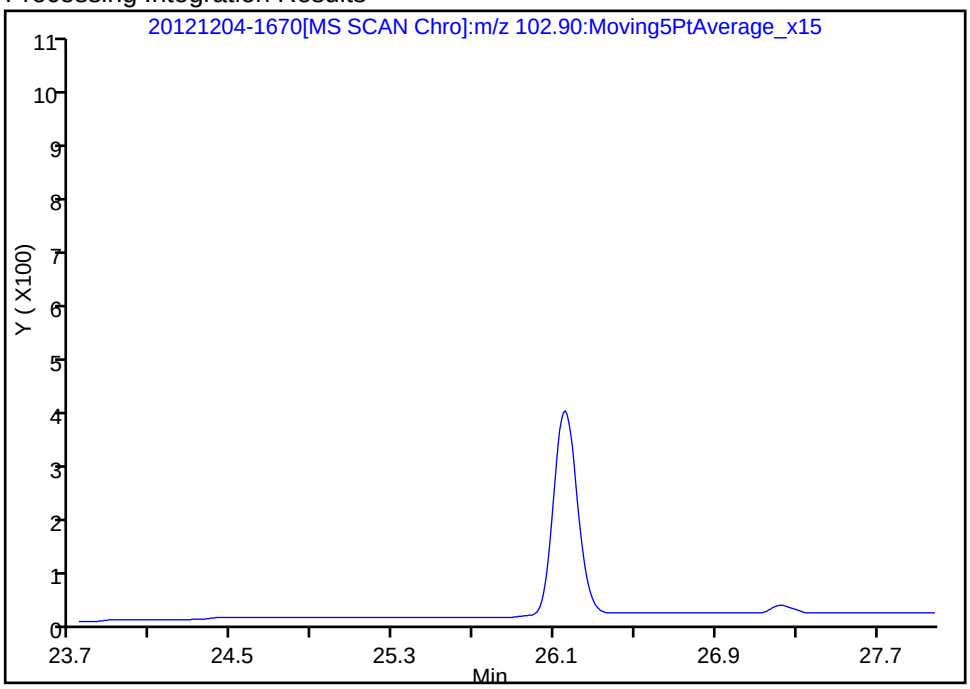
TestAmerica West Sacramento

Data File:	\\SACCHROM\ChromData\IT1\20121204-1670.b\CS-1...1.0pg-uL, 12-4-2012, 2-25-44 PM.d		
Injection Date:	04-Dec-2012 14:25:45	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:		Instrument ID:	IT1
Lims Batch ID:	6853	Lims Sample ID:	4
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm

10 N-Nitrosodi-n-butylamine, Signal: 2, m/z: 102.9 Type: quant, RT: 26.14

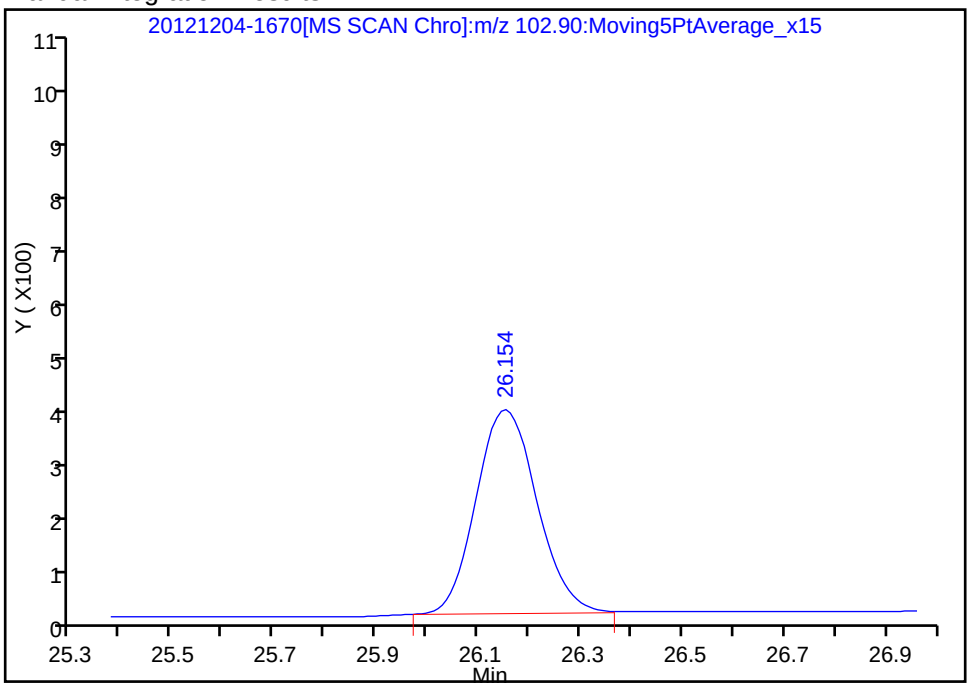
Processing Integration Results

Not Detected
Expected RT: 26.14



Manual Integration Results

RT: 26.15
Response: 2929
Amount: 0.604225



Reviewer: nihartv, 04-Dec-2012 16:16:53
Audit Action: Manually Integrated
Audit Reason: Peak Not Integrated

TestAmerica West Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\IT1\20121204-1670.b\CS-2...2.0pg-uL, 12-4-2012, 3-16-37 PM.d		
Lims ID:	STD02 CS-2	Client ID:	
Inject. Date:	04-Dec-2012 15:16:38	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:			
Misc. Info.:			
Operator:		Instrument ID:	IT1
Injection Vol:	20.0 ul	ALS Bottle#:	0
Lims Batch ID:	6853	Lims Sample ID:	5
Sublist:	chrom-NDMA_IT1*sub1		
Raw Data:	Smoothed		
Detector:	MS SCAN		
Method:	\\SACCHROM\ChromData\IT1\20121204-1670.b\NDMA_IT1.m		
Last Update:	05-Dec-2012 11:59:23	Calib Date:	04-Dec-2012 20:21:32
Quant Method:	Isotopic Dilution	Quant By:	Initial Calibration
Last ICal File:	\\SACCHROM\ChromData\IT1\20121204-1670.b\CS-8...200pg-uL, 12-4-2012, 8-21-31 PM.d		
Limit Group:	MSS - NDMA_CIMSMS - ICAL		
Integrator:	Falcon	ID Type:	RT Order ID
Column Type:	VF-624MS	Column Dia:	0.25 mm
Process Host:	XAWRK025		

First Level Reviewer: nihartv Date: 05-Dec-2012 11:10:54

Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ng/ml	Ratio Range	Ratio	S/N	Flags
D 1 N-Nitrosodimethylamine-d6										
50	12.223	12.210	0.013	69	191897	96.5	100.0- 100.0	100.0		
81	12.223	12.210	0.013		724634		303.0- 303.0	377.6		
2 N-Nitrosodimethylamine										
43	12.223	12.271	-0.048	1	1079		100.0- 100.0	100.0	Infinity	
47	12.293	12.271	0.022		3468		70.8- 70.8	321.4		
	Summary Peak				4547	2.03				
3 N-Nitrosomethylethylamine										
61	14.462	14.416	0.046	77	10667	1.75			Infinity	
4 N-Nitrosodiethylamine										
75	16.267	16.245	0.021	46	5877	2.03			Infinity	
* 5 2-Chloropyridine										
110	16.890	16.881	0.009	83	2020450	200.0	100.0- 100.0	100.0		
116	16.890	16.881	0.009		1651234		83.2- 83.2	81.7		
D 6 N-Nitrosodi-n-propylamine-d14										
97	20.827	20.813	0.014	74	589413	99.4				
7 N-Nitrosodi-n-propylamine										
89	21.043	21.018	0.025	71	15735	1.99			261	
8 N-Nitrosopyrrolidine										
55	21.834	21.777	0.057	13	14946	1.79			258	
9 N-Nitrosopiperidine										
68	22.758	22.716	0.042	64	26208	1.72			1366	

Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ng/ml	Ratio Range	Ratio	S/N	Flags
10 N-Nitrosodi-n-butylamine										
57	26.161	26.136	0.025	29	1625		100.0- 100.0	100.0	Infinity	
103	26.161	26.136	0.025		8537		609.7- 609.7	525.4		
	Summary Peak				10162	1.50				

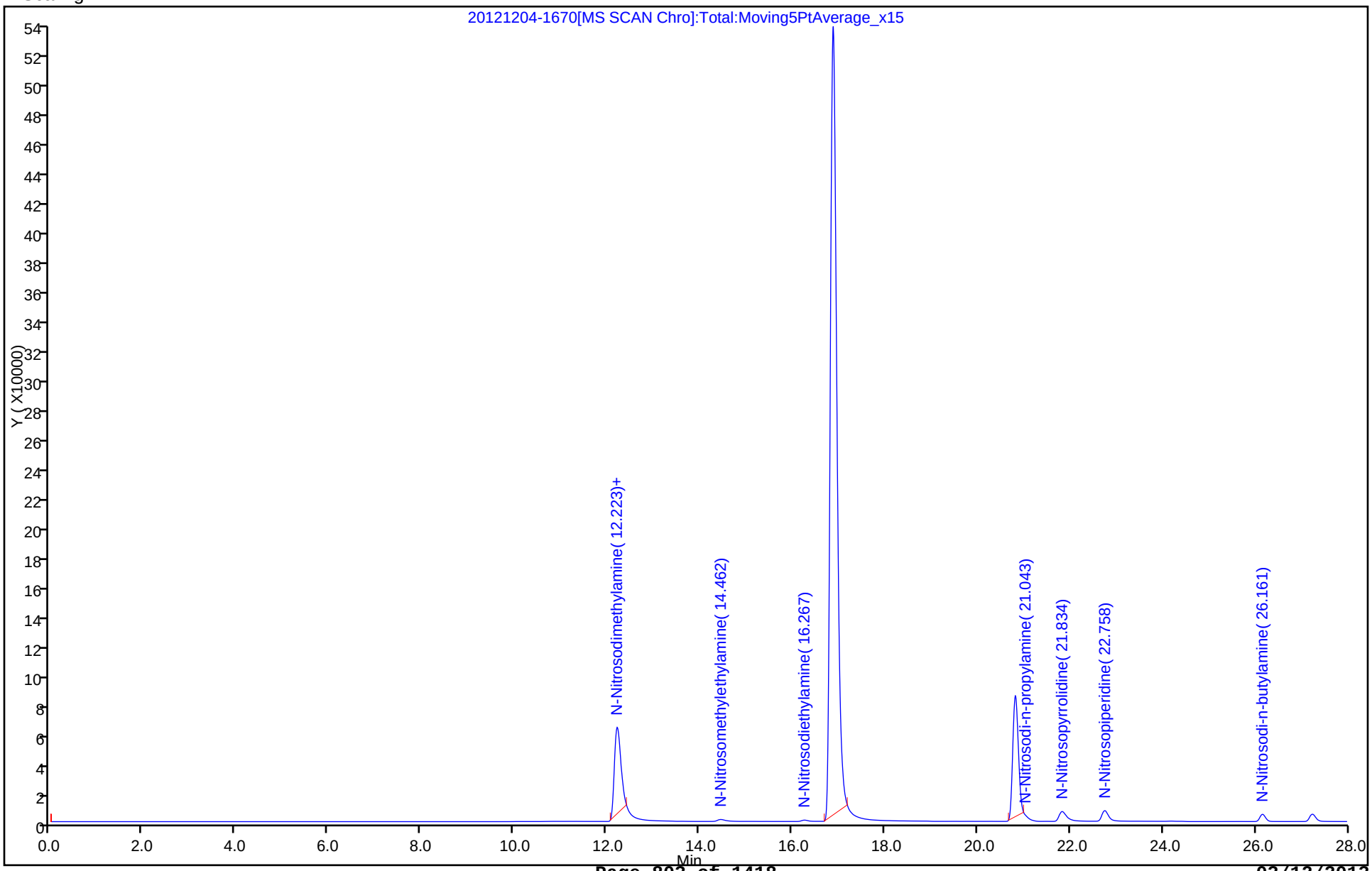
Report Date: 05-Dec-2012 11:59:23 Chrom Revision: 2.1 03-Dec-2012 11:37:40

TestAmerica West Sacramento

Data File: \\SACCHROM\ChromData\IT1\20121204-1670.b\CS-2...2.0pg-uL, 12-4-2012, 3-16-37 PM.d

Injection Date:	04-Dec-2012 15:16:38	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:		Instrument ID:	IT1
Lims Batch ID:	6853	Lims Sample ID:	5
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm

Y Scaling:



TestAmerica West Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\IT1\20121204-1670.b\CS-3...5.0pg-uL, 12-4-2012, 4-07-24 PM.d		
Lims ID:	STD03 CS-3	Client ID:	
Inject. Date:	04-Dec-2012 16:07:25	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:			
Misc. Info.:			
Operator:		Instrument ID:	IT1
Injection Vol:	20.0 ul	ALS Bottle#:	0
Lims Batch ID:	6853	Lims Sample ID:	6
Sublist:	chrom-NDMA_IT1*sub1		
Raw Data:	Smoothed		
Detector:	MS SCAN		
Method:	\\SACCHROM\ChromData\IT1\20121204-1670.b\NDMA_IT1.m		
Last Update:	05-Dec-2012 11:59:27	Calib Date:	04-Dec-2012 20:21:32
Quant Method:	Isotopic Dilution	Quant By:	Initial Calibration
Last ICal File:	\\SACCHROM\ChromData\IT1\20121204-1670.b\CS-8...200pg-uL, 12-4-2012, 8-21-31 PM.d		
Limit Group:	MSS - NDMA_CIMSMS - ICAL		
Integrator:	Falcon	ID Type:	RT Order ID
Column Type:	VF-624MS	Column Dia:	0.25 mm
Process Host:	XAWRK025		

First Level Reviewer: nihartv Date: 05-Dec-2012 11:11:52

Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ng/ml	Ratio Range	Ratio	S/N	Flags
D 1 N-Nitrosodimethylamine-d6										
50	12.225	12.210	0.015	63	196684	105.0	100.0- 100.0	100.0		
81	12.207	12.210	-0.003		697414		303.0- 303.0	354.6		
2 N-Nitrosodimethylamine										
43	12.275	12.271	0.004	4	11129		100.0- 100.0	100.0	451	
47	12.275	12.271	0.004		7851		70.8- 70.8	70.5		
	Summary Peak				18980	4.75				
3 N-Nitrosomethylethylamine										
61	14.443	14.416	0.027	76	28527	4.56			Infinity	
4 N-Nitrosodiethylamine										
75	16.264	16.245	0.019	58	15608	5.27			Infinity	
* 5 2-Chloropyridine										
110	16.889	16.881	0.008	81	1903692	200.0	100.0- 100.0	100.0		
116	16.889	16.881	0.008		1576319		83.2- 83.2	82.8		
D 6 N-Nitrosodi-n-propylamine-d14										
97	20.823	20.813	0.010	76	564070	101.0				
7 N-Nitrosodi-n-propylamine										
89	21.037	21.018	0.019	66	37430	4.95			554	
8 N-Nitrosopyrrolidine										
55	21.817	21.777	0.040	32	35715	4.47			640	
9 N-Nitrosopiperidine										
68	22.739	22.716	0.023	74	70474	4.84			7420	

Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ng/ml	Ratio Range	Ratio	S/N	Flags
10 N-Nitrosodi-n-butylamine										
57	26.152	26.136	0.016	40	4164		100.0- 100.0	100.0	Infinity	
103	26.152	26.136	0.016		25253		609.7- 609.7	606.5		
	Summary Peak				29417	4.53				

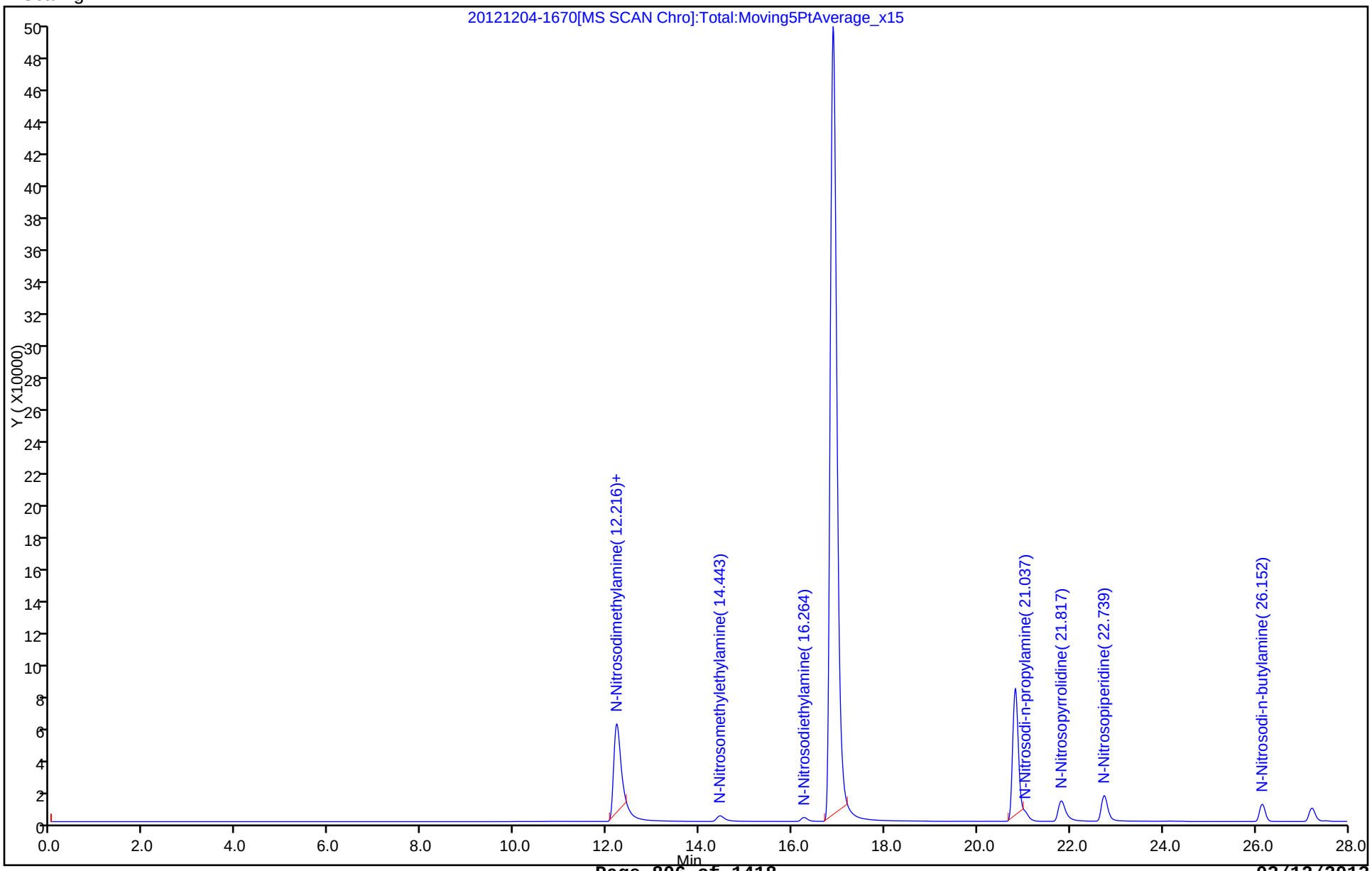
Report Date: 05-Dec-2012 11:59:27 Chrom Revision: 2.1 03-Dec-2012 11:37:40

TestAmerica West Sacramento

Data File: \\SACCHROM\ChromData\IT1\20121204-1670.b\CS-3...5.0pg-uL, 12-4-2012, 4-07-24 PM.d

Injection Date:	04-Dec-2012 16:07:25	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:		Instrument ID:	IT1
Lims Batch ID:	6853	Lims Sample ID:	6
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm

Y Scaling:



TestAmerica West Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\IT1\20121204-1670.b\CS-4...10pg-uL, 12-4-2012, 4-58-09 PM.d		
Lims ID:	STD04 CS-4	Client ID:	
Inject. Date:	04-Dec-2012 16:58:10	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:			
Misc. Info.:			
Operator:		Instrument ID:	IT1
Injection Vol:	20.0 ul	ALS Bottle#:	0
Lims Batch ID:	6853	Lims Sample ID:	7
Sublist:	chrom-NDMA_IT1*sub1		
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\SACCHROM\ChromData\IT1\20121204-1670.b\NDMA_IT1.m		
Last Update:	05-Dec-2012 11:59:30	Calib Date:	04-Dec-2012 20:21:32
Quant Method:	Isotopic Dilution	Quant By:	Initial Calibration
Last ICal File:	\\SACCHROM\ChromData\IT1\20121204-1670.b\CS-8...200pg-uL, 12-4-2012, 8-21-31 PM.d		
Limit Group:	MSS - NDMA_CIMSMS - ICAL		
Integrator:	Falcon	ID Type:	RT Order ID
Column Type:	VF-624MS	Column Dia:	0.25 mm
Process Host:	XAWRK025		

First Level Reviewer: nihartv Date: 05-Dec-2012 11:14:27

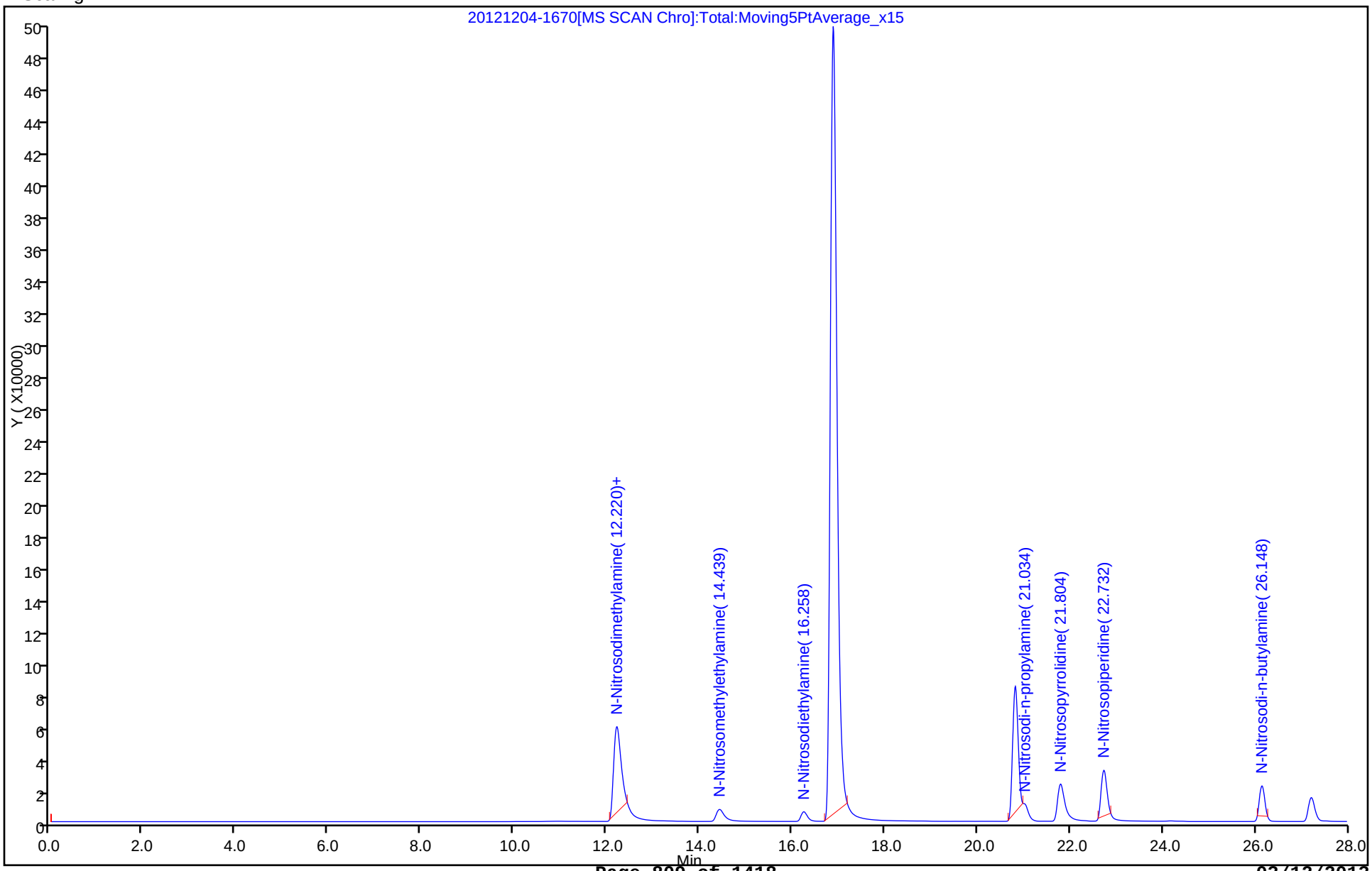
Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ng/ml	Ratio Range	Ratio	S/N	Flags
D 1 N-Nitrosodimethylamine-d6										
50	12.229	12.210	0.019	72	184042	97.8	100.0- 100.0	100.0		
81	12.204	12.210	-0.006		620045		303.0- 303.0	336.9		
2 N-Nitrosodimethylamine										
43	12.273	12.271	0.002	1	28557		100.0- 100.0	100.0	551	
47	12.280	12.271	0.009		18120		70.8- 70.8	63.5		
	Summary Peak				46677	10.6				
3 N-Nitrosomethylethylamine										
61	14.439	14.416	0.023	75	65906	11.2			Infinity	
4 N-Nitrosodiethylamine										
75	16.258	16.245	0.013	42	34575	12.5			Infinity	
* 5 2-Chloropyridine										
110	16.889	16.881	0.008	81	1911333	200.0	100.0- 100.0	100.0		
116	16.889	16.881	0.008		1517541		83.2- 83.2	79.4		
D 6 N-Nitrosodi-n-propylamine-d14										
97	20.822	20.813	0.009	58	635610	113.4				
7 N-Nitrosodi-n-propylamine										
89	21.034	21.018	0.016	1	82214	9.64			1221	
8 N-Nitrosopyrrolidine										
55	21.804	21.777	0.027	58	83508	9.28			1984	
9 N-Nitrosopiperidine										
68	22.732	22.716	0.016	56	157268	9.59			16247	

Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ng/ml	Ratio Range	Ratio	S/N	Flags
10 N-Nitrosodi-n-butylamine										
57	26.148	26.136	0.012	65	8978		100.0- 100.0	100.0	Infinity	
103	26.148	26.136	0.012		61995		609.7- 609.7	690.5		
	Summary Peak				70973	9.70				

Report Date: 05-Dec-2012 11:59:30 Chrom Revision: 2.1 03-Dec-2012 11:37:40

TestAmerica West Sacramento

Data File:	\\SACCHROM\ChromData\IT1\20121204-1670.b\CS-4...10pg-uL, 12-4-2012, 4-58-09 PM.d		
Injection Date:	04-Dec-2012 16:58:10	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:		Instrument ID:	IT1
Lims Batch ID:	6853	Lims Sample ID:	7
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm
Y Scaling:			



TestAmerica West Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\IT1\20121204-1670.b\CS-5...20pg-uL, 12-4-2012, 5-49-01 PM.d		
Lims ID:	STD05 CS-5	Client ID:	
Inject. Date:	04-Dec-2012 17:49:02	Dil. Factor:	1.0000
Sample Type:	ICRT	Calib Level:	5
Sample ID:			
Misc. Info.:			
Operator:		Instrument ID:	IT1
Injection Vol:	20.0 ul	ALS Bottle#:	0
Lims Batch ID:	6853	Lims Sample ID:	8
Sublist:	chrom-NDMA_IT1*sub1		
Raw Data:	Smoothed		
Detector:	MS SCAN		
Method:	\\SACCHROM\ChromData\IT1\20121204-1670.b\NDMA_IT1.m		
Last Update:	05-Dec-2012 11:59:33	Calib Date:	04-Dec-2012 20:21:32
Quant Method:	Isotopic Dilution	Quant By:	Initial Calibration
Last ICal File:	\\SACCHROM\ChromData\IT1\20121204-1670.b\CS-8...200pg-uL, 12-4-2012, 8-21-31 PM.d		
Limit Group:	MSS - NDMA_CIMSMS - ICAL		
Integrator:	Falcon	ID Type:	RT Order ID
Column Type:	VF-624MS	Column Dia:	0.25 mm
Process Host:	XAWRK025		

First Level Reviewer: nihartv Date: 05-Dec-2012 11:14:46

Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ng/ml	Ratio Range	Ratio	S/N	Flags
D 1 N-Nitrosodimethylamine-d6										
50	12.210	12.210	0.0	63	194781	103.5	100.0- 100.0	100.0		
81	12.194	12.210	-0.016		590138		303.0- 303.0	303.0		
2 N-Nitrosodimethylamine										
43	12.271	12.271	0.0	1	52847		100.0- 100.0	100.0	1440	
47	12.271	12.271	0.0		37416		70.8- 70.8	70.8		
	Summary Peak				90263	18.4				
3 N-Nitrosomethylethylamine										
61	14.416	14.416	0.0	75	120380	19.4			Infinity	
4 N-Nitrosodiethylamine										
75	16.245	16.245	0.0	43	54242	18.5			Infinity	
* 5 2-Chloropyridine										
110	16.881	16.881	0.0	78	1912357	200.0	100.0- 100.0	100.0		
116	16.881	16.881	0.0		1591531		83.2- 83.2	83.2		
D 6 N-Nitrosodi-n-propylamine-d14										
97	20.813	20.813	0.0	69	615122	109.6				
7 N-Nitrosodi-n-propylamine										
89	21.018	21.018	0.0	1	155390	18.8			2260	
8 N-Nitrosopyrrolidine										
55	21.777	21.777	0.0	60	176091	20.2			5567	
9 N-Nitrosopiperidine										
68	22.716	22.716	0.0	50	332522	21.0			4338	

Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ng/ml	Ratio Range	Ratio	S/N	Flags
10 N-Nitrosodi-n-butylamine										
57	26.136	26.136	0.0	64	20491		100.0- 100.0	100.0	Infinity	
103	26.136	26.136	0.0		124928		609.7- 609.7	609.7		
	Summary Peak				145419	20.5				

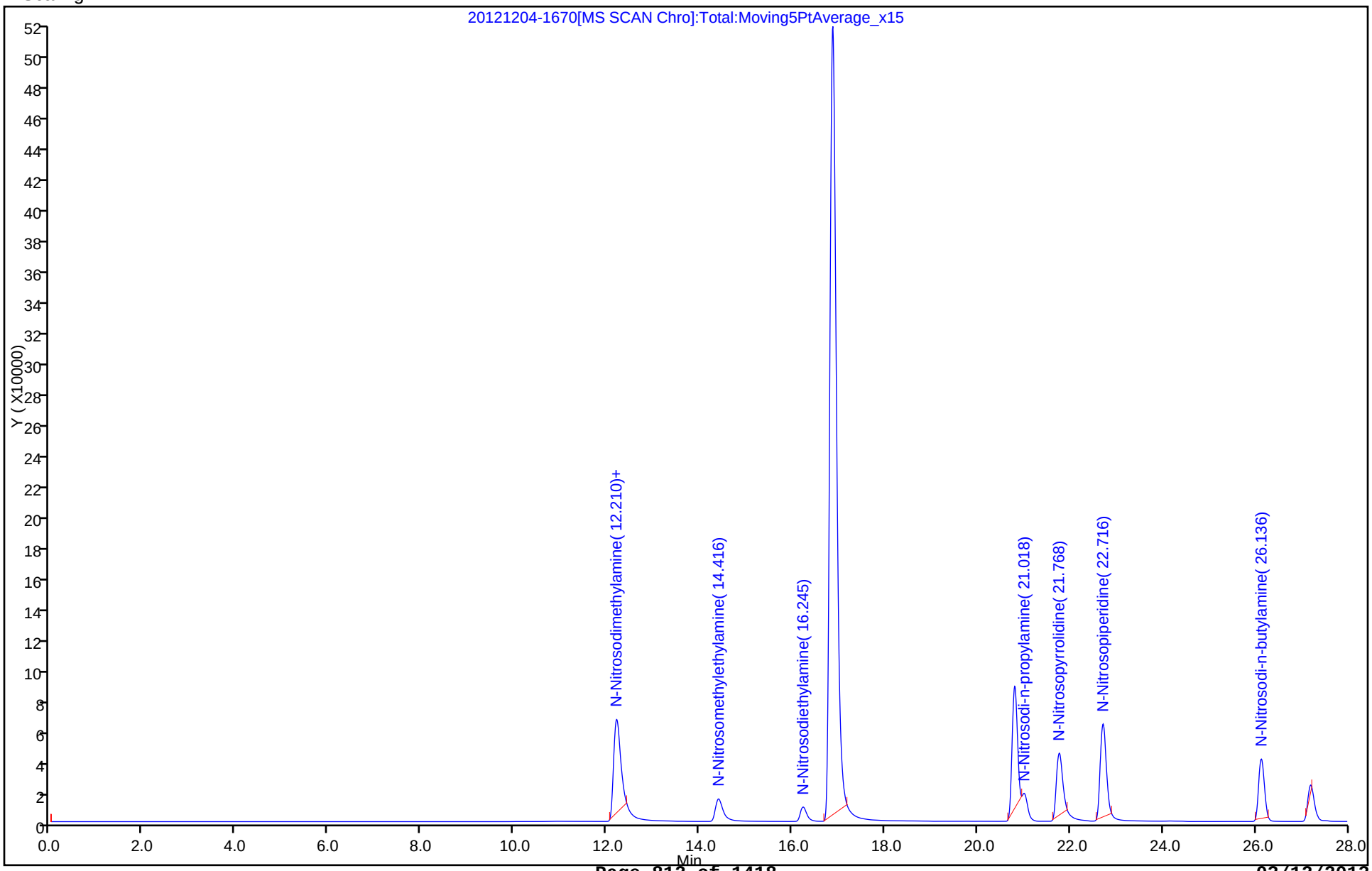
Report Date: 05-Dec-2012 11:59:33 Chrom Revision: 2.1 03-Dec-2012 11:37:40

TestAmerica West Sacramento

Data File: \\SACCHROM\ChromData\IT1\20121204-1670.b\CS-5...20pg-uL, 12-4-2012, 5-49-01 PM.d

Injection Date:	04-Dec-2012 17:49:02	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:		Instrument ID:	IT1
Lims Batch ID:	6853	Lims Sample ID:	8
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm

Y Scaling:



TestAmerica West Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\IT1\20121204-1670.b\CS-6...50pg-uL, 12-4-2012, 6-39-49 PM.d		
Lims ID:	STD06 CS-6	Client ID:	
Inject. Date:	04-Dec-2012 18:39:50	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:			
Misc. Info.:			
Operator:		Instrument ID:	IT1
Injection Vol:	20.0 ul	ALS Bottle#:	0
Lims Batch ID:	6853	Lims Sample ID:	9
Sublist:	chrom-NDMA_IT1*sub1		
Raw Data:	Smoothed		
Detector:	MS SCAN		
Method:	\\SACCHROM\ChromData\IT1\20121204-1670.b\NDMA_IT1.m		
Last Update:	05-Dec-2012 11:59:36	Calib Date:	04-Dec-2012 20:21:32
Quant Method:	Isotopic Dilution	Quant By:	Initial Calibration
Last ICal File:	\\SACCHROM\ChromData\IT1\20121204-1670.b\CS-8...200pg-uL, 12-4-2012, 8-21-31 PM.d		
Limit Group:	MSS - NDMA_CIMSMS - ICAL		
Integrator:	Falcon	ID Type:	RT Order ID
Column Type:	VF-624MS	Column Dia:	0.25 mm
Process Host:	XAWRK025		

First Level Reviewer: nihartv Date: 05-Dec-2012 11:15:05

Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ng/ml	Ratio Range	Ratio	S/N	Flags
D 1 N-Nitrosodimethylamine-d6										
50	12.189	12.210	-0.021	64	191937	102.0	100.0- 100.0	100.0		
81	12.173	12.210	-0.037		500525		303.0- 303.0	260.8		
2 N-Nitrosodimethylamine										
43	12.249	12.271	-0.022	77	145006		100.0- 100.0	100.0	6050	
47	12.259	12.271	-0.012		94194		70.8- 70.8	65.0		
	Summary Peak				239200	47.6				
3 N-Nitrosomethylethylamine										
61	14.382	14.416	-0.034	72	307746	50.4			Infinity	
4 N-Nitrosodiethylamine										
75	16.219	16.245	-0.026	54	126410	43.7			Infinity	
* 5 2-Chloropyridine										
110	16.866	16.881	-0.015	76	1912256	200.0	100.0- 100.0	100.0		
116	16.875	16.881	-0.006		1484924		83.2- 83.2	77.7		
D 6 N-Nitrosodi-n-propylamine-d14										
97	20.798	20.813	-0.015	72	597928	106.6				
7 N-Nitrosodi-n-propylamine										
89	21.004	21.018	-0.014	1	360099	44.9			3737	
8 N-Nitrosopyrrolidine										
55	21.739	21.777	-0.038	64	472427	55.8			15824	
9 N-Nitrosopiperidine										
68	22.690	22.716	-0.026	60	826093	53.6			1204	

Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ng/ml	Ratio Range	Ratio	S/N	Flags
10 N-Nitrosodi-n-butylamine										
57	26.117	26.136	-0.019	62	56612		100.0- 100.0	100.0	Infinity	
103	26.117	26.136	-0.019		327329		609.7- 609.7	578.2		
	Summary Peak				383941	55.8				

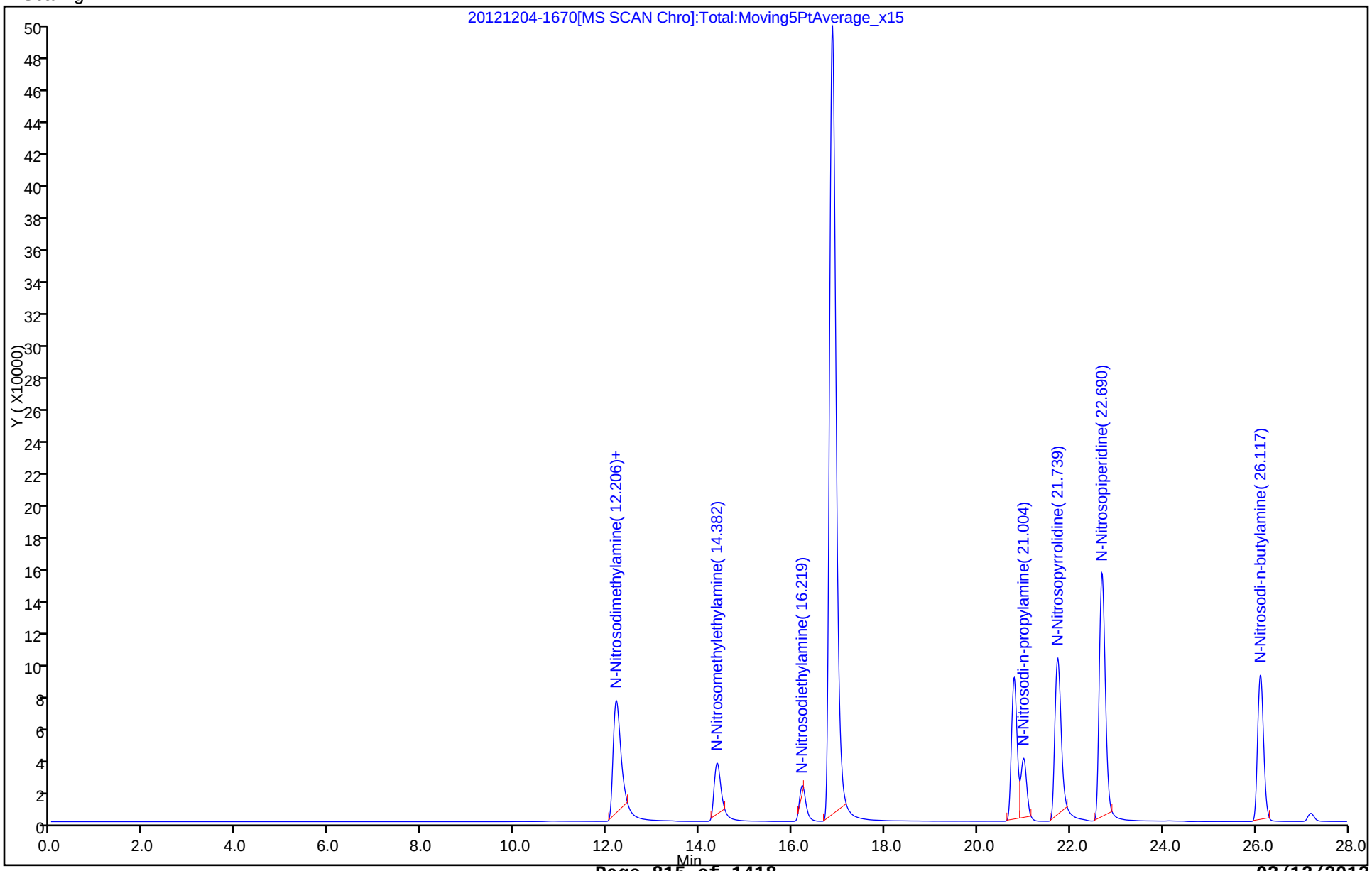
Report Date: 05-Dec-2012 11:59:36 Chrom Revision: 2.1 03-Dec-2012 11:37:40

TestAmerica West Sacramento

Data File: \\SACCHROM\ChromData\IT1\20121204-1670.b\CS-6...50pg-uL, 12-4-2012, 6-39-49 PM.d

Injection Date:	04-Dec-2012 18:39:50	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:		Instrument ID:	IT1
Lims Batch ID:	6853	Lims Sample ID:	9
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm

Y Scaling:



TestAmerica West Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\IT1\20121204-1670.b\CS-7...100pg-uL, 12-4-2012, 7-30-40 PM.d		
Lims ID:	STD07 CS-7	Client ID:	
Inject. Date:	04-Dec-2012 19:30:41	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	7
Sample ID:			
Misc. Info.:			
Operator:		Instrument ID:	IT1
Injection Vol:	20.0 ul	ALS Bottle#:	0
Lims Batch ID:	6853	Lims Sample ID:	10
Sublist:	chrom-NDMA_IT1*sub1		
Raw Data:	Smoothed		
Detector:	MS SCAN		
Method:	\\SACCHROM\ChromData\IT1\20121204-1670.b\NDMA_IT1.m		
Last Update:	05-Dec-2012 11:59:39	Calib Date:	04-Dec-2012 20:21:32
Quant Method:	Isotopic Dilution	Quant By:	Initial Calibration
Last ICal File:	\\SACCHROM\ChromData\IT1\20121204-1670.b\CS-8...200pg-uL, 12-4-2012, 8-21-31 PM.d		
Limit Group:	MSS - NDMA_CIMSMS - ICAL		
Integrator:	Falcon	ID Type:	RT Order ID
Column Type:	VF-624MS	Column Dia:	0.25 mm
Process Host:	XAWRK025		

First Level Reviewer: nihartv Date: 05-Dec-2012 11:15:29

Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ng/ml	Ratio Range	Ratio	S/N	Flags
D 1 N-Nitrosodimethylamine-d6										
50	12.180	12.210	-0.030	78	187560	96.1	100.0- 100.0	100.0		
81	12.153	12.210	-0.057		475990		303.0- 303.0	253.8		
2 N-Nitrosodimethylamine										
43	12.231	12.271	-0.040	74	323669		100.0- 100.0	100.0	12769	
47	12.231	12.271	-0.040		204819		70.8- 70.8	63.3		
	Summary Peak				528488	106.2				
3 N-Nitrosomethylethylamine										
61	14.363	14.416	-0.053	75	659010	110.4			Infinity	
4 N-Nitrosodiethylamine										
75	16.210	16.245	-0.035	60	259554	91.9			Infinity	
* 5 2-Chloropyridine										
110	16.869	16.881	-0.012	84	1983616	200.0	100.0- 100.0	100.0		
116	16.869	16.881	-0.012		1575937		83.2- 83.2	79.4		
D 6 N-Nitrosodi-n-propylamine-d14										
97	20.801	20.813	-0.012	72	526377	90.5				
7 N-Nitrosodi-n-propylamine										
89	20.997	21.018	-0.021	58	748087	105.9			7871	
8 N-Nitrosopyrrolidine										
55	21.719	21.777	-0.058	39	885444	118.8			30079	
9 N-Nitrosopiperidine										
68	22.684	22.716	-0.032	61	1537236	113.2			4262	

Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ng/ml	Ratio Range	Ratio	S/N	Flags
10 N-Nitrosodi-n-butylamine										
57	26.114	26.136	-0.022	58	110591		100.0- 100.0	100.0	Infinity	
103	26.114	26.136	-0.022		577649		609.7- 609.7	522.3		
	Summary Peak				688240	113.6				

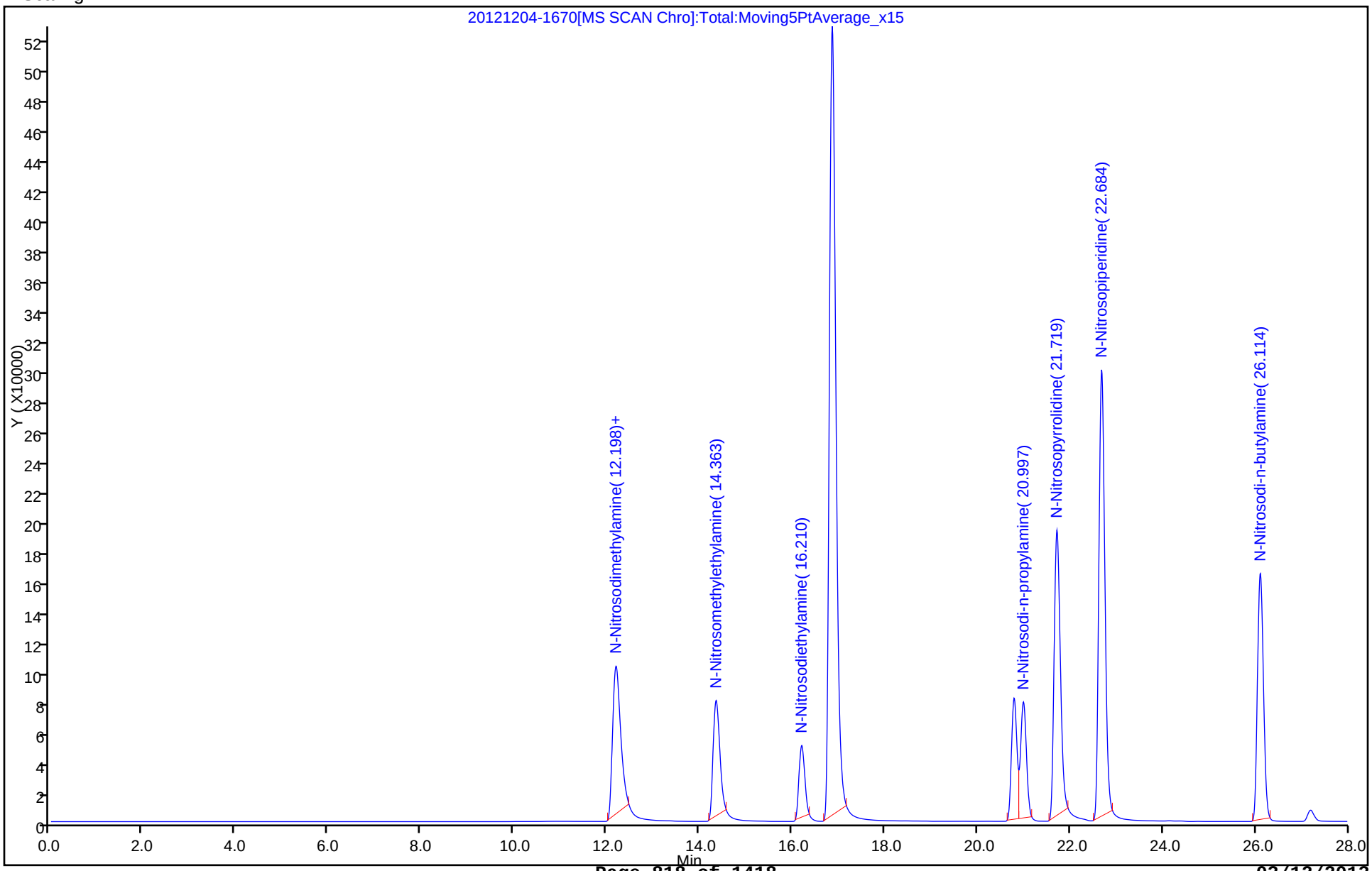
Report Date: 05-Dec-2012 11:59:39 Chrom Revision: 2.1 03-Dec-2012 11:37:40

TestAmerica West Sacramento

Data File: \\SACCHROM\ChromData\IT1\20121204-1670.b\CS-7...100pg-uL, 12-4-2012, 7-30-40 PM.d

Injection Date:	04-Dec-2012 19:30:41	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:		Instrument ID:	IT1
Lims Batch ID:	6853	Lims Sample ID:	10
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm

Y Scaling:



TestAmerica West Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\IT1\20121204-1670.b\CS-8...200pg-uL, 12-4-2012, 8-21-31 PM.d		
Lims ID:	STD08 CS-8	Client ID:	
Inject. Date:	04-Dec-2012 20:21:32	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	8
Sample ID:			
Misc. Info.:			
Operator:		Instrument ID:	IT1
Injection Vol:	20.0 ul	ALS Bottle#:	0
Lims Batch ID:	6853	Lims Sample ID:	11
Sublist:	chrom-NDMA_IT1*sub1		
Raw Data:	Smoothed		
Detector:	MS SCAN		
Method:	\\SACCHROM\ChromData\IT1\20121204-1670.b\NDMA_IT1.m		
Last Update:	05-Dec-2012 11:59:42	Calib Date:	04-Dec-2012 20:21:32
Quant Method:	Isotopic Dilution	Quant By:	Initial Calibration
Last ICal File:	\\SACCHROM\ChromData\IT1\20121204-1670.b\CS-8...200pg-uL, 12-4-2012, 8-21-31 PM.d		
Limit Group:	MSS - NDMA_CIMSMS - ICAL		
Integrator:	Falcon	ID Type:	RT Order ID
Column Type:	VF-624MS	Column Dia:	0.25 mm
Process Host:	XAWRK025		

First Level Reviewer: nihartv Date: 05-Dec-2012 11:15:53

Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ng/ml	Ratio Range	Ratio	S/N	Flags
D 1 N-Nitrosodimethylamine-d6										
50	12.164	12.210	-0.046	69	219295	102.8	100.0- 100.0	100.0		
81	12.146	12.210	-0.064		465403		303.0- 303.0	212.2		
2 N-Nitrosodimethylamine										
43	12.215	12.271	-0.056	1	754530		100.0- 100.0	100.0	16352	
47	12.224	12.271	-0.047		459296		70.8- 70.8	60.9		
	Summary Peak				1213826	207.5				
3 N-Nitrosomethylethylamine										
61	14.350	14.416	-0.066	77	1410135	202.0			Infinity	
4 N-Nitrosodiethylamine										
75	16.207	16.245	-0.038	40	497566	150.6			Infinity	
* 5 2-Chloropyridine										
110	16.876	16.881	-0.005	84	2166562	200.0	100.0- 100.0	100.0		
116	16.876	16.881	-0.005		1754276		83.2- 83.2	81.0		
D 6 N-Nitrosodi-n-propylamine-d14										
97	20.802	20.813	-0.011	62	547074	86.1				
7 N-Nitrosodi-n-propylamine										
89	21.004	21.018	-0.014	66	1280708	174.5			20784	
8 N-Nitrosopyrrolidine										
55	21.719	21.777	-0.058	60	1700848	219.6			89016	
9 N-Nitrosopiperidine										
68	22.692	22.716	-0.024	58	2818820	199.7			12217	

Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ng/ml	Ratio Range	Ratio	S/N	Flags
10 N-Nitrosodi-n-butylamine										
57	26.116	26.136	-0.020	74	223309		100.0- 100.0	100.0	Infinity	
103	26.116	26.136	-0.020		1155251		609.7- 609.7	517.3		
	Summary Peak				1378560	219.0				

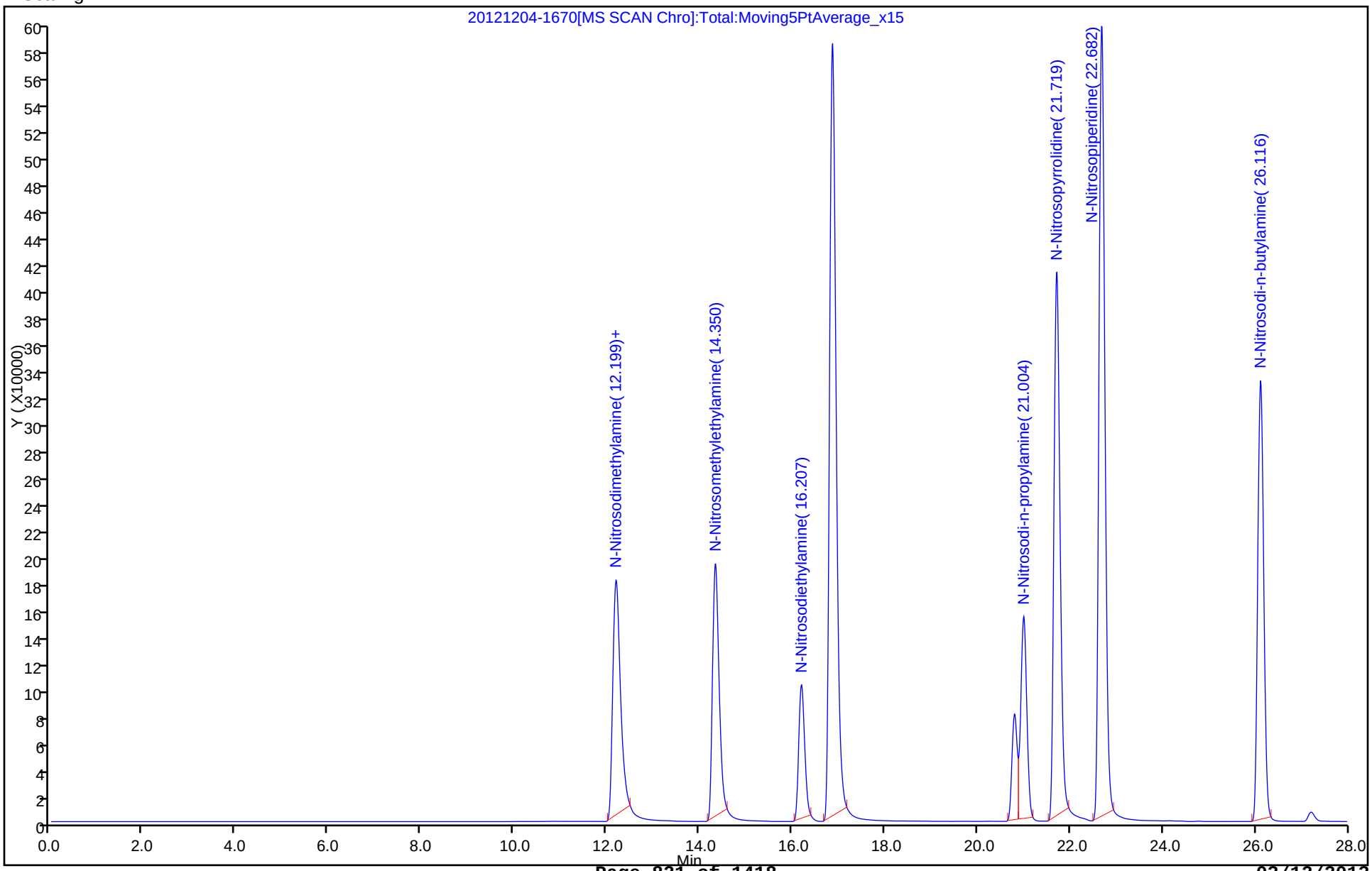
Report Date: 05-Dec-2012 11:59:42 Chrom Revision: 2.1 03-Dec-2012 11:37:40

TestAmerica West Sacramento

Data File: \\SACCHROM\ChromData\IT1\20121204-1670.b\CS-8...200pg-uL, 12-4-2012, 8-21-31 PM.d

Injection Date:	04-Dec-2012 20:21:32	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:		Instrument ID:	IT1
Lims Batch ID:	6853	Lims Sample ID:	11
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm

Y Scaling:



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 480-30406-1

SDG No.:

Lab Sample ID: ICV 320-6853/12 Calibration Date: 12/04/2012 21:12

Instrument ID: IT1 Calib Start Date: 12/04/2012 14:25

GC Column: VF-624MS ID: 0.25(mm) Calib End Date: 12/04/2012 20:21

Lab File ID: 2nd Source.10pg-uL, 12-4-2012, Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
N-Nitrosodimethylamine	L2ID		2.427		10.2	10.0	2.0	25.0
N-Nitrosomethylethylamine	AveID	3.184	3.205		10.1	10.0	0.7	25.0
N-Nitrosodiethylamine	AveID	1.506	1.717		11.4	10.0	14.0	25.0
N-Nitrosodi-n-propylamine	AveID	1.342	1.544		11.5	10.0	15.1	25.0
N-Nitrosopyrrolidine	AveID	1.416	1.544		10.9	10.0	9.1	25.0
N-Nitrosopiperidine	AveID	2.580	2.827		11.0	10.0	9.6	25.0
N-Nitrosodi-n-butylamine	AveID	1.151	1.294		11.2	10.0	12.5	25.0

Autotune for Tue Dec 4, 2012
IT-1 VMN

11:33:19 Auto Tune: Started
11:33:19 Air/Water Check: Started
11:34:06 Air Check: Acceptable Level Found (28 Width: 0.8 m/z)
11:34:06 Water Check: Acceptable Level Found (19/18 Ratio: 8.1 %)
11:34:06 Air/Water Check: Completed - No Problems Found
11:34:06 RF Full Scale Adj: Started
11:34:08 Mass 69 - CurDAC: 128 - Center: 69.75 - NewDAC: 72
11:34:09 RF Full Scale Adj: Centered on Mass 69 at 69.75 (Setting: 72)
11:34:09 Mass 414 - CurDAC: 72 - Center: 413.16 - NewDAC: 82
11:34:10 RF Full Scale Adj: Centered on Mass 414 at 413.16 (Setting: 82)
11:34:12 Mass 614 - CurDAC: 82 - Center: 614.16 - NewDAC: 81
11:34:14 RF Full Scale Adj: Centered on Mass 614 at 614.16 (Setting: 81)
11:34:14 RF Full Scale Adj: Setting is OK (Setting: 81, Mass: 614, Apex: 614.1)
11:34:14 RF Full Scale Adj: Completed
11:34:14 Multi-Point Mass Cal: Started
11:34:20 Multi-Point Mass Cal: Found Calibration Mass 28 at 28.21
11:34:28 Multi-Point Mass Cal: Found Calibration Mass 69 at 69.11
11:34:34 Multi-Point Mass Cal: Found Calibration Mass 131 at 130.90
11:34:49 Multi-Point Mass Cal: Found Calibration Mass 264 at 263.87
11:35:13 Multi-Point Mass Cal: Found Calibration Mass 414 at 413.89
11:35:40 Multi-Point Mass Cal: Found Calibration Mass 464 at 463.90
11:36:10 Multi-Point Mass Cal: Found Calibration Mass 502 at 501.71
11:36:46 Multi-Point Mass Cal: Found Calibration Mass 614 at 614.04
11:36:46 Multi-Point Mass Cal: Calibration is OK (Slope: 6.275, Std Dev: 0.026)
11:36:46 Multi-Point Mass Cal: Completed
11:36:46 Trap Function Calib: Started
11:36:50 Trap Function Calib: Calibrating at Mass 69
11:38:15 Trap Function Calib: Calibrating at Mass 131
11:39:21 Trap Function Calib: Mass 69 Calibrated (Freq: 255.600 kHz)
11:39:21 Trap Function Calib: Mass 131 Calibrated (Freq: 255.100 kHz)
11:39:21 Trap Function Calib: Completed
11:39:21 Auto Tune: Completed

TestAmerica West Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\IT1\20121204-1670.b\2nd Source.10pg-uL, 12-4-2012, 9-12-17 PM.d		
Lims ID:	ICV	Client ID:	
Inject. Date:	04-Dec-2012 21:12:18	Dil. Factor:	1.0000
Sample Type:	ICV		
Sample ID:			
Misc. Info.:			
Operator:		Instrument ID:	IT1
Injection Vol:	20.0 ul	ALS Bottle#:	0
Lims Batch ID:	6853	Lims Sample ID:	12
Sublist:			
Raw Data:	Smoothed		
Detector:	MS SCAN		
Method:	\\SACCHROM\ChromData\IT1\20121204-1670.b\NDMA_IT1.m		
Last Update:	05-Dec-2012 11:28:12	Calib Date:	04-Dec-2012 20:21:32
Quant Method:	Isotopic Dilution	Quant By:	Initial Calibration
Last ICal File:	\\SACCHROM\ChromData\IT1\20121204-1670.b\CS-8...200pg-uL, 12-4-2012, 8-21-31 PM.d		
Limit Group:	MSS - NDMA_CIMSMS - ICAL		
Integrator:	Falcon	ID Type:	RT Order ID
Column Type:	VF-624MS	Column Dia:	0.25 mm
Process Host:	XAWRK025		

First Level Reviewer: nihartv Date: 05-Dec-2012 11:28:12

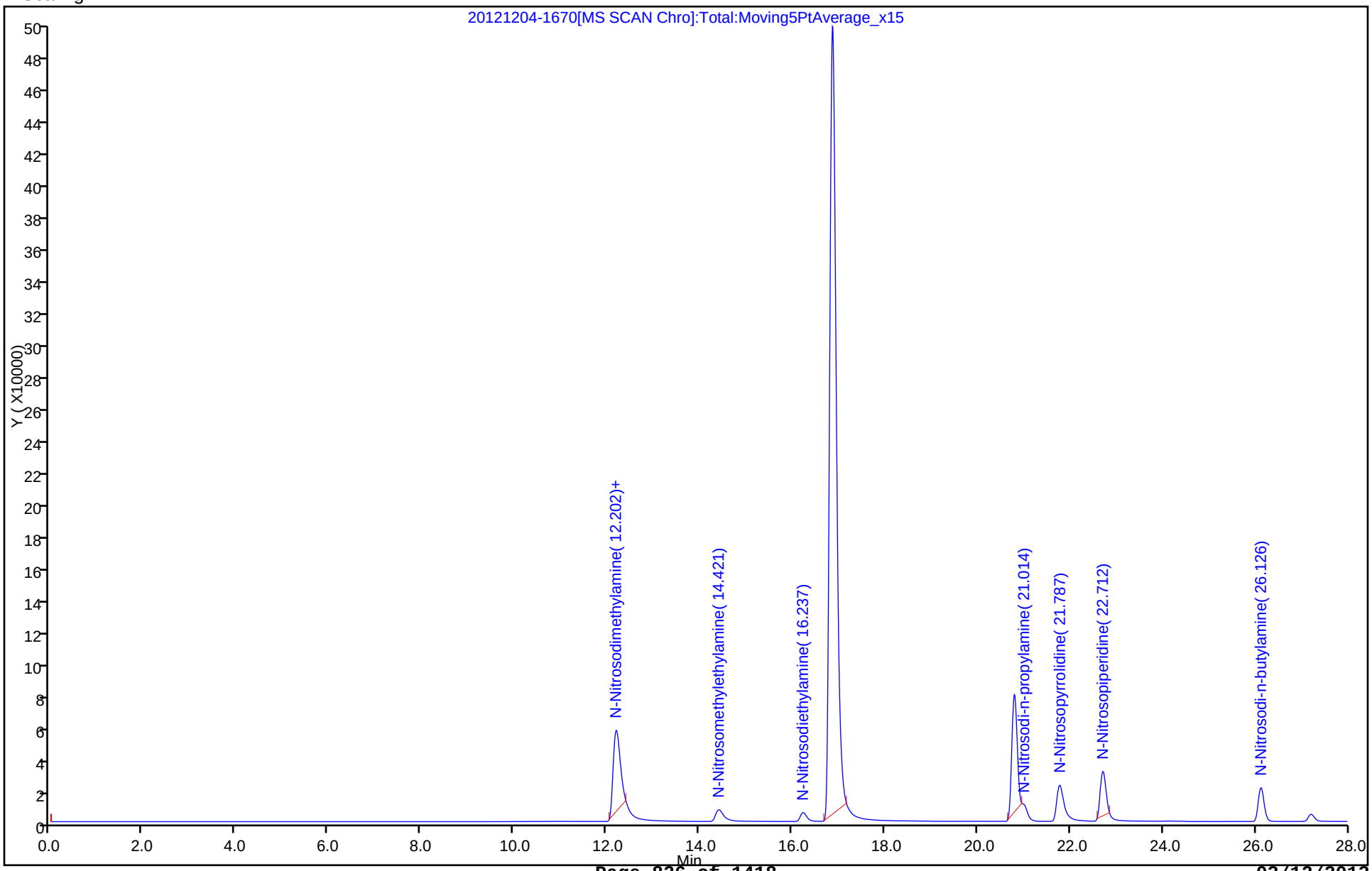
Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ng/ml	Ratio Range	Ratio	S/N	Flags
D 1 N-Nitrosodimethylamine-d6										
50	12.212	12.212	0.0	68	198987	108.7	100.0- 100.0	100.0		
81	12.185	12.212	-0.027		552033		303.0- 303.0	277.4		
2 N-Nitrosodimethylamine										
43	12.263	12.263	0.0	82	28701		100.0- 100.0	100.0	386	
47	12.263	12.263	0.0		19593		70.8- 70.8	68.3		
	Summary Peak				48294	10.2				
3 N-Nitrosomethylethylamine										
61	14.421	14.421	0.0	77	63773	10.1			Infinity	
4 N-Nitrosodiethylamine										
75	16.237	16.237	0.0	52	34158	11.4			Infinity	
* 5 2-Chloropyridine										
110	16.871	16.871	0.0	83	1859221	200.0	100.0- 100.0	100.0		
116	16.871	16.871	0.0		1519925		83.2- 83.2	81.8		
D 6 N-Nitrosodi-n-propylamine-d14										
97	20.798	20.798	0.0	73	547870	100.4				
7 N-Nitrosodi-n-propylamine										
89	21.014	21.014	0.0	51	84602	11.5			960	
8 N-Nitrosopyrrolidine										
55	21.787	21.787	0.0	65	84613	10.9			2664	
9 N-Nitrosopiperidine										
68	22.712	22.712	0.0	67	154860	11.0			8092	

Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ng/ml	Ratio Range	Ratio	S/N	Flags
10 N-Nitrosodi-n-butylamine										
57	26.126	26.126	0.0	65	11237		100.0- 100.0	100.0	Infinity	
103	26.126	26.126	0.0		59677		609.7- 609.7	531.1		
	Summary Peak				70914	11.2				

Report Date: 05-Dec-2012 11:28:13 Chrom Revision: 2.1 03-Dec-2012 11:37:40

TestAmerica West Sacramento

Data File:	\\SACCHROM\ChromData\IT1\20121204-1670.b\2nd Source.10pg-uL, 12-4-2012, 9-12-17 PM.d		
Injection Date:	04-Dec-2012 21:12:18	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:		Instrument ID:	IT1
Lims Batch ID:	6853	Lims Sample ID:	12
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm
Y Scaling:			



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 480-30406-1

SDG No.:

Lab Sample ID: CCV 320-8232/1 Calibration Date: 01/03/2013 12:13

Instrument ID: IT1 Calib Start Date: 12/04/2012 14:25

GC Column: VF-624MS ID: 0.25(mm) Calib End Date: 12/04/2012 20:21

Lab File ID: CS-4...10pg-uL, 1-3-2013, Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
N-Nitrosodimethylamine	L2ID		2.587		10.8	10.0	8.0	20.0
N-Nitrosomethylethylamine	AveID	3.184	2.775		8.72	10.0	-12.8	30.0
N-Nitrosodiethylamine	AveID	1.506	1.249		8.29	10.0	-17.1	30.0
N-Nitrosodi-n-propylamine	AveID	1.342	1.526		11.4	10.0	13.7	30.0
N-Nitrosopyrrolidine	AveID	1.416	1.766		12.5	10.0	24.7	30.0
N-Nitrosopiperidine	AveID	2.580	2.873		11.1	10.0	11.4	30.0
N-Nitrosodi-n-butylamine	AveID	1.151	1.428		12.4	10.0	24.1	30.0

Autotune for Thur. Jan 3, 2013
IT-1 VMN

11:57:32 Auto Tune: Started
11:57:32 Air/Water Check: Started
11:58:07 Air Check: Acceptable Level Found (28 Width: 1.0 m/z)
11:58:07 Water Check: Acceptable Level Found (19/18 Ratio: 5.0 %)
11:58:07 Air/Water Check: Completed - No Problems Found
11:58:07 RF Full Scale Adj: Started
11:58:14 Mass 69 - CurDAC: 128 - Center: 69.74 - NewDAC: 73
11:58:16 RF Full Scale Adj: Centered on Mass 69 at 69.74 (Setting: 73)
11:58:19 Mass 414 - CurDAC: 73 - Center: 413.28 - NewDAC: 81
11:58:21 RF Full Scale Adj: Centered on Mass 414 at 413.28 (Setting: 81)
11:58:23 Mass 614 - CurDAC: 81 - Center: 614.10 - NewDAC: 81
11:58:25 Mass 614 - CurDAC: 81 - Center: 614.12 - NewDAC: 80
11:58:28 RF Full Scale Adj: Centered on Mass 614 at 614.10 (Setting: 80)
11:58:28 RF Full Scale Adj: Setting is OK (Setting: 80, Mass: 614, Apex: 614.0)
11:58:28 RF Full Scale Adj: Completed
11:58:28 Multi-Point Mass Cal: Started
11:58:35 Multi-Point Mass Cal: Found Calibration Mass 28 at 28.20
11:58:43 Multi-Point Mass Cal: Found Calibration Mass 69 at 69.10
11:58:48 Multi-Point Mass Cal: Found Calibration Mass 131 at 130.89
11:59:03 Multi-Point Mass Cal: Found Calibration Mass 264 at 263.84
11:59:27 Multi-Point Mass Cal: Found Calibration Mass 414 at 413.83
11:59:54 Multi-Point Mass Cal: Found Calibration Mass 464 at 463.85
12:00:25 Multi-Point Mass Cal: Found Calibration Mass 502 at 501.64
12:01:01 Multi-Point Mass Cal: Found Calibration Mass 614 at 613.96
12:01:01 Multi-Point Mass Cal: Calibration is OK (Slope: 6.274, Std Dev: 0.026)
12:01:01 Multi-Point Mass Cal: Completed
12:01:01 Trap Function Calib: Started
12:01:06 Trap Function Calib: Calibrating at Mass 69
12:02:28 Trap Function Calib: Calibrating at Mass 131
12:03:46 Trap Function Calib: Mass 69 Calibrated (Freq: 255.900 kHz)
12:03:46 Trap Function Calib: Mass 131 Calibrated (Freq: 255.100 kHz)
12:03:46 Trap Function Calib: Completed
12:03:46 Auto Tune: Completed

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\IT1\20130103-2068.b\CS-4...10pg-uL, 1-3-2013, 12-13-20 PM.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	03-Jan-2013 12:13:21	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:			
Misc. Info.:			
Operator:		Instrument ID:	IT1
Injection Vol:	20.0 ul	ALS Bottle#:	0
Lims Batch ID:	8232	Lims Sample ID:	1
Sublist:	chrom-NDMA_IT1*sub1		
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\SACCHROM\ChromData\IT1\20130103-2068.b\NDMA_IT1.m		
Last Update:	04-Jan-2013 11:58:27	Calib Date:	04-Dec-2012 20:21:32
Quant Method:	Isotopic Dilution	Quant By:	Initial Calibration
Last ICal File:	\\SACCHROM\ChromData\IT1\20121204-1670.b\CS-8...200pg-uL, 12-4-2012, 8-21-31 PM.d		
Limit Group:	MSS - NDMA_CIMSMS - ICAL		
Integrator:	Falcon	ID Type:	RT Order ID
Column Type:	VF-624MS	Column Dia:	0.25 mm
Process Host:	XAWRK029		

First Level Reviewer: nihartv Date: 04-Jan-2013 11:12:03

Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ng/ml	Ratio Range	Ratio	S/N	Flags
D 1 N-Nitrosodimethylamine-d6										
50	12.206	12.206	0.0	62	342545	98.9	100.0- 100.0	100.0		
81	12.180	12.206	-0.026		1209840		303.0- 303.0	353.2		
2 N-Nitrosodimethylamine										M
43	12.257	12.257	0.0	1	52968		100.0- 100.0	100.0	13.5	M
47	12.257	12.257	0.0		35655		70.8- 70.8	67.3		M
	Summary Peak				88623	10.8				
3 N-Nitrosomethylethylamine										
61	14.402	14.402	0.0	82	95071	8.72			Infinity	
4 N-Nitrosodiethylamine										
75	16.225	16.225	0.0	47	42767	8.29			Infinity	
* 5 2-Chloropyridine										
110	16.855	16.855	0.0	78	3518964	200.0	100.0- 100.0	100.0		
116	16.855	16.855	0.0		2752256		83.2- 83.2	78.2		
D 6 N-Nitrosodi-n-propylamine-d14										
97	20.787	20.787	0.0	61	682555	66.1				
7 N-Nitrosodi-n-propylamine										
89	20.991	20.991	0.0	1	104128	11.4			348	
8 N-Nitrosopyrrolidine										
55	21.753	21.753	0.0	61	120527	12.5			1217	
9 N-Nitrosopiperidine										
68	22.695	22.695	0.0	58	196131	11.1			2036	

Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ng/ml	Ratio Range	Ratio	S/N	Flags
10 N-Nitrosodi-n-butylamine										
57	26.110	26.110	0.0	72	15392		100.0- 100.0	100.0	Infinity	
103	26.110	26.110	0.0		82060		609.7- 609.7	533.1		
	Summary Peak				97452	12.4				

QC Flag Legend

Review Flags
M - Manually Integrated

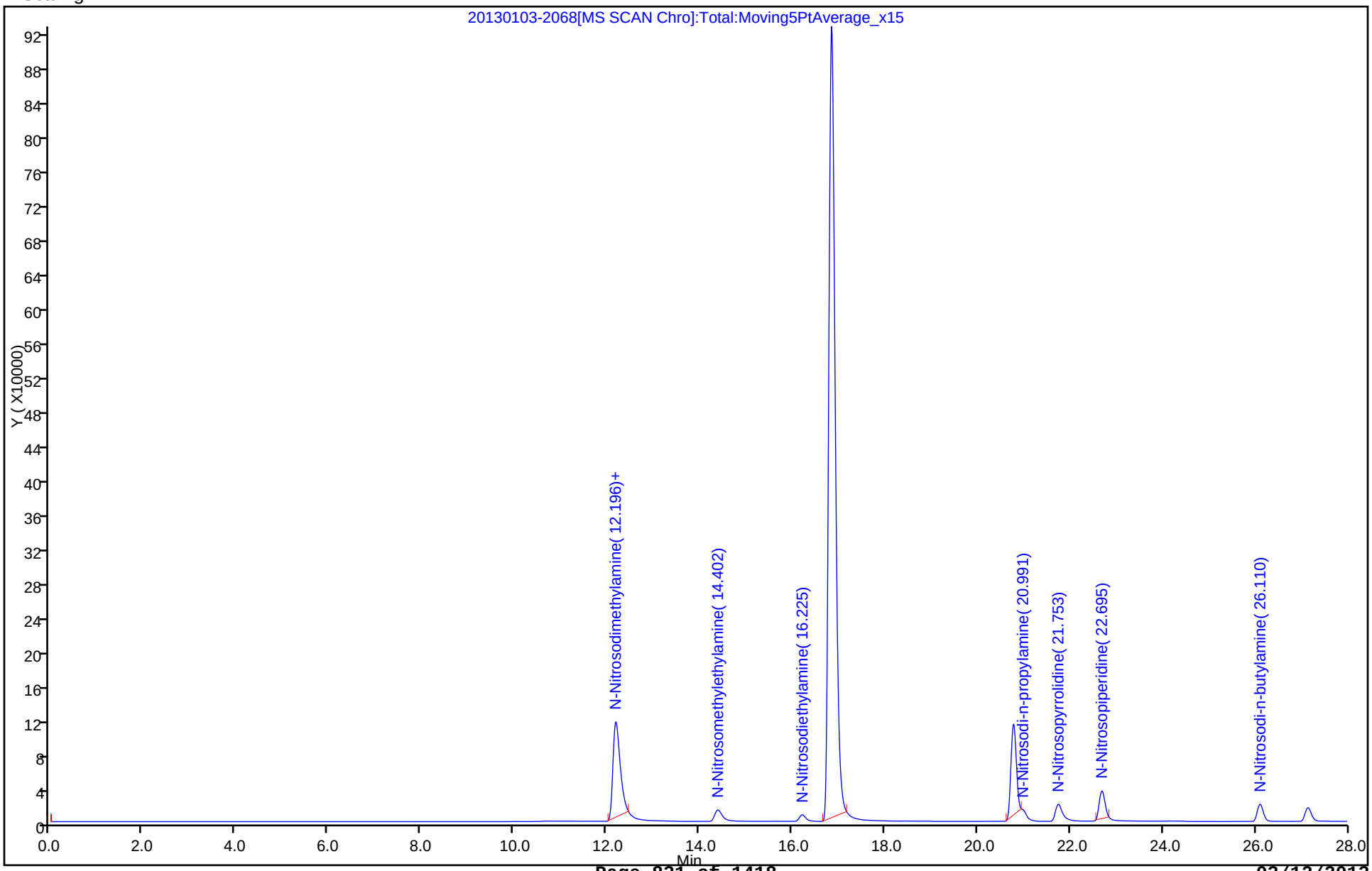
Report Date: 04-Jan-2013 11:58:27 Chrom Revision: 2.1 03-Jan-2013 18:41:16

TestAmerica Sacramento

Data File: \\SACCHROM\ChromData\IT1\20130103-2068.b\CS-4...10pg-uL, 1-3-2013, 12-13-20 PM.d

Injection Date:	03-Jan-2013 12:13:21	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:		Instrument ID:	IT1
Lims Batch ID:	8232	Lims Sample ID:	1
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm

Y Scaling:



Manual Integration/User Assign Peak Report

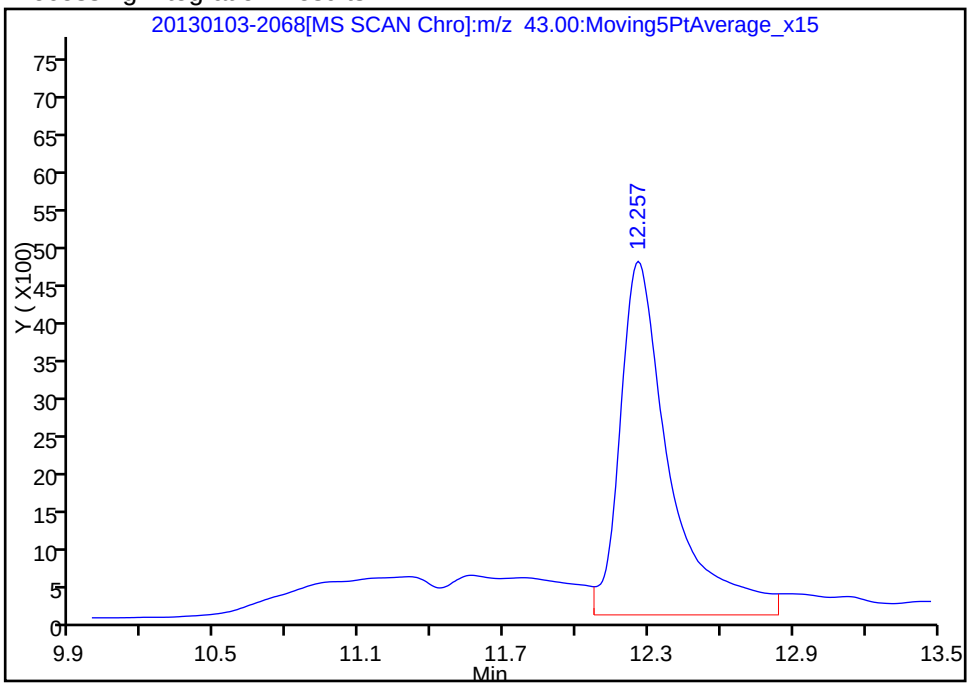
TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\IT1\20130103-2068.b\CS-4...10pg-uL, 1-3-2013, 12-13-20 PM.d		
Injection Date:	03-Jan-2013 12:13:21	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:		Instrument ID:	IT1
Lims Batch ID:	8232	Lims Sample ID:	1
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm

2 N-Nitrosodimethylamine, Signal: 1, m/z: 43.0 Type: quant, RT: 12.26

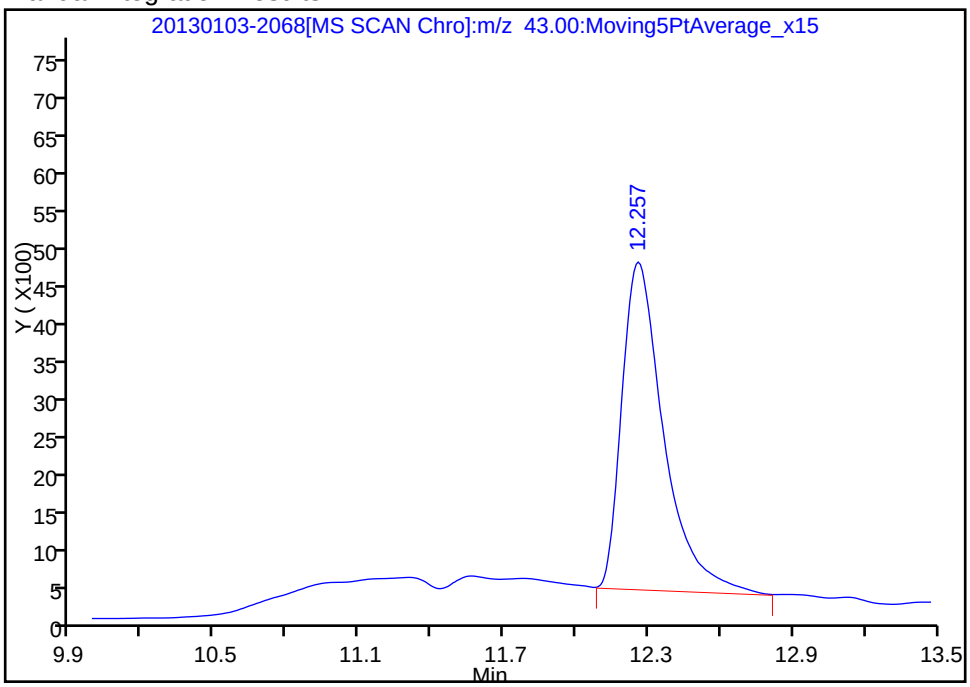
Processing Integration Results

RT: 12.26
Response: 67553
Amount: 15.408764



Manual Integration Results

RT: 12.26
Response: 52968
Amount: 12.081942



Reviewer: nihartv, 03-Jan-2013 12:49:55
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

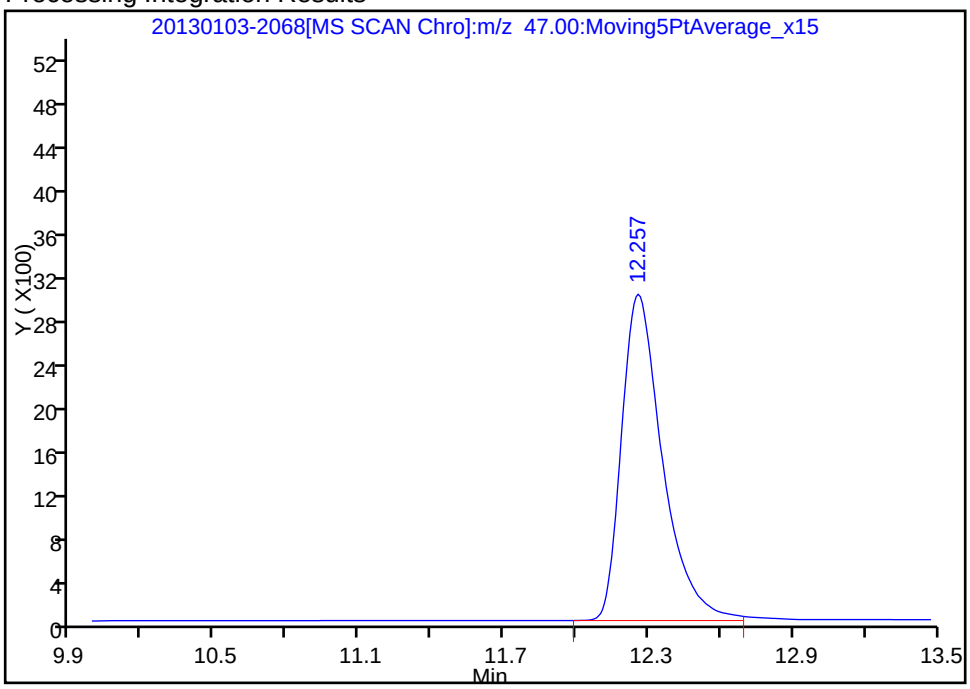
TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\IT1\20130103-2068.b\CS-4...10pg-uL, 1-3-2013, 12-13-20 PM.d		
Injection Date:	03-Jan-2013 12:13:21	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:		Instrument ID:	IT1
Lims Batch ID:	8232	Lims Sample ID:	1
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm

2 N-Nitrosodimethylamine, Signal: 2, m/z: 47.0 Type: quant, RT: 12.26

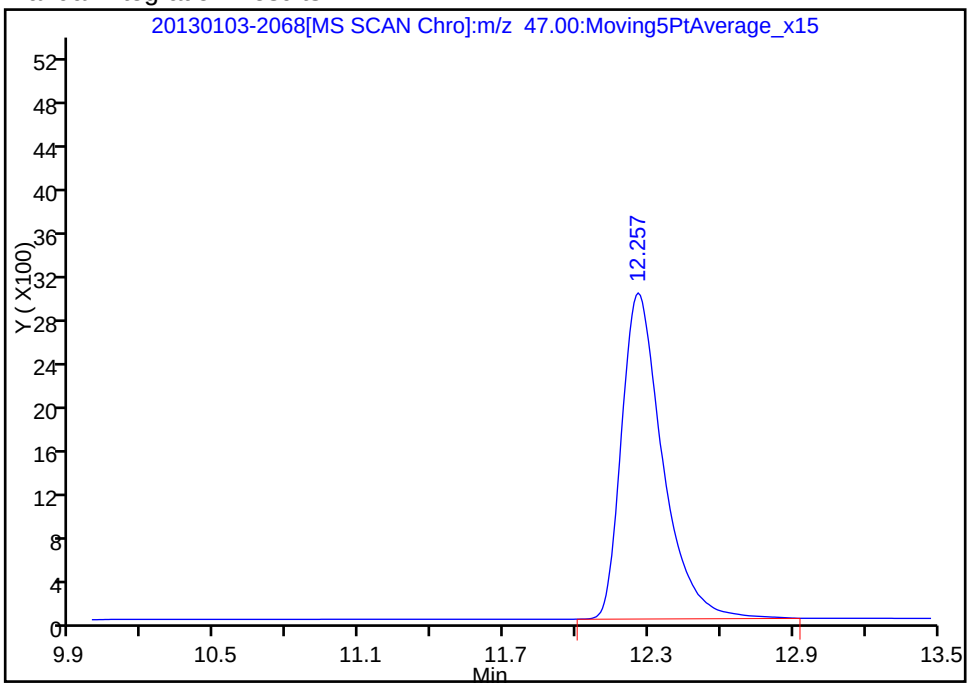
Processing Integration Results

RT: 12.26
Response: 35578
Amount: 12.084109



Manual Integration Results

RT: 12.26
Response: 35655
Amount: 12.110262



Reviewer: nihartv, 03-Jan-2013 12:49:55
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 480-30406-1

SDG No.:

Lab Sample ID: CCV 320-8340/1 Calibration Date: 01/07/2013 16:08

Instrument ID: IT1 Calib Start Date: 12/04/2012 14:25

GC Column: VF-624MS ID: 0.25(mm) Calib End Date: 12/04/2012 20:21

Lab File ID: CS-4...10pg-uL, 1-7-2013, 4-08-34 Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
N-Nitrosodimethylamine	L2ID		1.927		8.33	10.0	-16.7	20.0
N-Nitrosomethylethylamine	AveID	3.184	2.492		7.83	10.0	-21.7	30.0
N-Nitrosodiethylamine	AveID	1.506	2.283		15.2	10.0	51.5*	30.0
N-Nitrosodi-n-propylamine	AveID	1.342	1.503		11.2	10.0	12.1	30.0
N-Nitrosopyrrolidine	AveID	1.416	2.010		14.2	10.0	42.0*	30.0
N-Nitrosopiperidine	AveID	2.580	3.072		11.9	10.0	19.1	30.0
N-Nitrosodi-n-butylamine	AveID	1.151	3.352		29.1	10.0	191.2*	30.0

Autotune for Mon Jan 7, 2013
IT-1 VMN

15:56:31 Auto Tune: Started
15:56:31 Air/Water Check: Started
15:57:05 Air Check: Acceptable Level Found (28 Width: 1.0 m/z)
15:57:05 Water Check: Acceptable Level Found (19/18 Ratio: 6.5 %)
15:57:05 Air/Water Check: Completed - No Problems Found
15:57:05 RF Full Scale Adj: Started
15:57:12 Mass 69 - CurDAC: 128 - Center: 69.72 - NewDAC: 74
15:57:14 RF Full Scale Adj: Centered on Mass 69 at 69.72 (Setting: 74)
15:57:17 Mass 414 - CurDAC: 74 - Center: 413.33 - NewDAC: 82
15:57:19 RF Full Scale Adj: Centered on Mass 414 at 413.33 (Setting: 82)
15:57:21 Mass 614 - CurDAC: 82 - Center: 614.22 - NewDAC: 81
15:57:23 RF Full Scale Adj: Centered on Mass 614 at 614.22 (Setting: 81)
15:57:23 RF Full Scale Adj: Setting is OK (Setting: 81, Mass: 614, Apex: 614.1)
15:57:23 RF Full Scale Adj: Completed
15:57:23 Multi-Point Mass Cal: Started
15:57:31 Multi-Point Mass Cal: Found Calibration Mass 28 at 28.13
15:57:39 Multi-Point Mass Cal: Found Calibration Mass 69 at 69.08
15:57:45 Multi-Point Mass Cal: Found Calibration Mass 131 at 130.89
15:58:00 Multi-Point Mass Cal: Found Calibration Mass 264 at 263.88
15:58:24 Multi-Point Mass Cal: Found Calibration Mass 414 at 413.91
15:58:51 Multi-Point Mass Cal: Found Calibration Mass 464 at 463.93
15:59:21 Multi-Point Mass Cal: Found Calibration Mass 502 at 501.74
15:59:57 Multi-Point Mass Cal: Found Calibration Mass 614 at 614.10
15:59:57 Multi-Point Mass Cal: Calibration is OK (Slope: 6.274, Std Dev: 0.029)
15:59:57 Multi-Point Mass Cal: Completed
15:59:57 Trap Function Calib: Started
16:00:02 Trap Function Calib: Calibrating at Mass 69
16:01:23 Trap Function Calib: Calibrating at Mass 131
16:02:25 Trap Function Calib: Mass 69 Calibrated (Freq: 256.000 kHz)
16:02:25 Trap Function Calib: Mass 131 Calibrated (Freq: 255.400 kHz)
16:02:25 Trap Function Calib: Completed
16:02:25 Auto Tune: Completed

TestAmerica West Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\IT1\20130107-2107.b\CS-4...10pg-uL, 1-7-2013, 4-08-34 PM.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	07-Jan-2013 16:08:35	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:			
Misc. Info.:			
Operator:		Instrument ID:	IT1
Injection Vol:	20.0 ul	ALS Bottle#:	0
Lims Batch ID:	8340	Lims Sample ID:	1
Sublist:	chrom-NDMA_IT1*sub1		
Raw Data:	Smoothed		
Detector:	MS SCAN		
Method:	\\SACCHROM\ChromData\IT1\20130107-2107.b\NDMA_IT1.m		
Last Update:	08-Jan-2013 11:13:44	Calib Date:	04-Dec-2012 20:21:32
Quant Method:	Isotopic Dilution	Quant By:	Initial Calibration
Last ICal File:	\\SACCHROM\ChromData\IT1\20121204-1670.b\CS-8...200pg-uL, 12-4-2012, 8-21-31 PM.d		
Limit Group:	MSS - NDMA_CIMSMS - ICAL		
Integrator:	Falcon	ID Type:	RT Order ID
Column Type:	VF-624MS	Column Dia:	0.25 mm
Process Host:	XAWRK023		

First Level Reviewer: nihartv Date: 08-Jan-2013 11:13:44

Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ng/ml	Ratio Range	Ratio	S/N	Flags
D 1 N-Nitrosodimethylamine-d6										
50	12.061	12.061	0.0	55	375221	102.6	100.0- 100.0	100.0		
81	12.035	12.061	-0.026		23909		303.0- 303.0	6.4		
2 N-Nitrosodimethylamine										M
43	12.129	12.129	0.0	1	40593		100.0- 100.0	100.0	10.8	M
47	12.121	12.129	-0.008		31705		70.8- 70.8	78.1		
	Summary Peak				72298	8.33				
3 N-Nitrosomethylethylamine										
61	14.234	14.234	0.0	74	93489	7.83			1059	
4 N-Nitrosodiethylamine										
75	16.065	16.065	0.0	53	85655	15.2			Infinity	
* 5 2-Chloropyridine										
110	16.693	16.693	0.0	81	3716820	200.0	100.0- 100.0	100.0		
116	16.693	16.693	0.0		2789152		83.2- 83.2	75.0		
D 6 N-Nitrosodi-n-propylamine-d14										
97	20.621	20.621	0.0	63	819578	75.2				
7 N-Nitrosodi-n-propylamine										
89	20.825	20.825	0.0	61	123220	11.2			99.6	
8 N-Nitrosopyrrolidine										
55	21.568	21.568	0.0	31	164733	14.2			Infinity	
9 N-Nitrosopiperidine										
68	22.516	22.516	0.0	46	251775	11.9			1035	

Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ng/ml	Ratio Range	Ratio	S/N	Flags
10 N-Nitrosodi-n-butylamine										
57	25.940	25.940	0.0	77	14584		100.0- 100.0	100.0	Infinity	
103	25.950	25.940	0.010		260100		609.7- 609.7	1783.5		
	Summary Peak				274684	29.1				

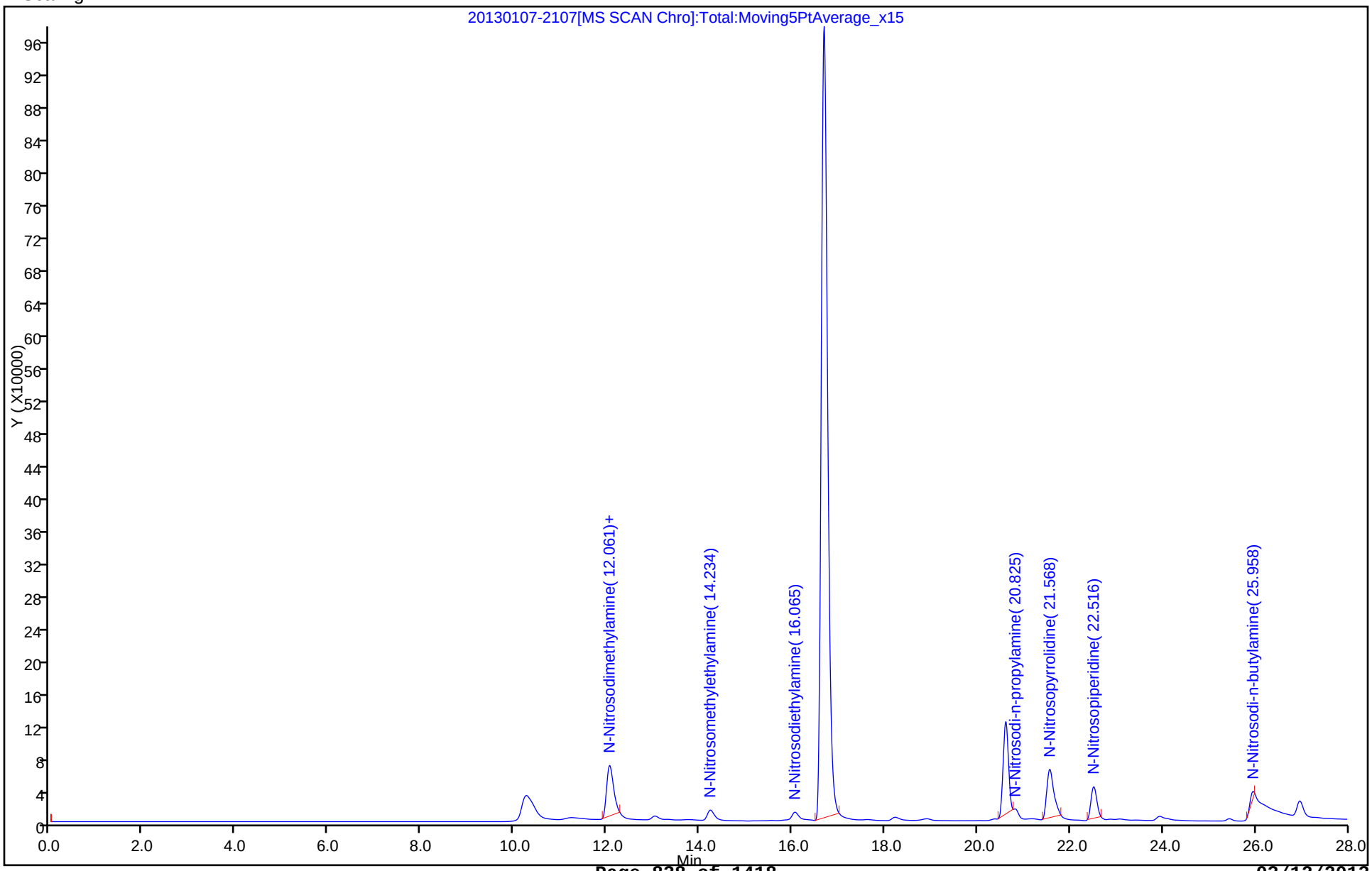
QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 08-Jan-2013 11:13:44 Chrom Revision: 2.1 03-Jan-2013 18:41:16

TestAmerica West Sacramento

Data File:	\\SACCHROM\ChromData\IT1\20130107-2107.b\CS-4...10pg-uL, 1-7-2013, 4-08-34 PM.d		
Injection Date:	07-Jan-2013 16:08:35	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:		Instrument ID:	IT1
Lims Batch ID:	8340	Lims Sample ID:	1
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm
Y Scaling:			



Manual Integration/User Assign Peak Report

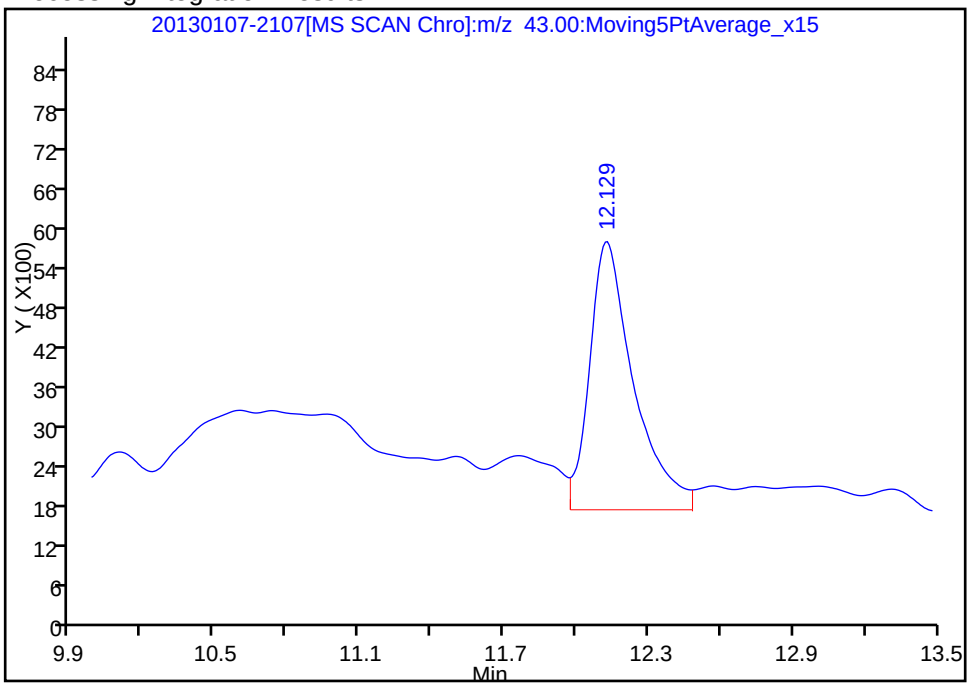
TestAmerica West Sacramento

Data File:	\\SACCHROM\ChromData\IT1\20130107-2107.b\CS-4...10pg-uL, 1-7-2013, 4-08-34 PM.d		
Injection Date:	07-Jan-2013 16:08:35	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:		Instrument ID:	IT1
Lims Batch ID:	8340	Lims Sample ID:	1
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm

2 N-Nitrosodimethylamine, Signal: 1, m/z: 43.0 Type: quant, RT: 12.13

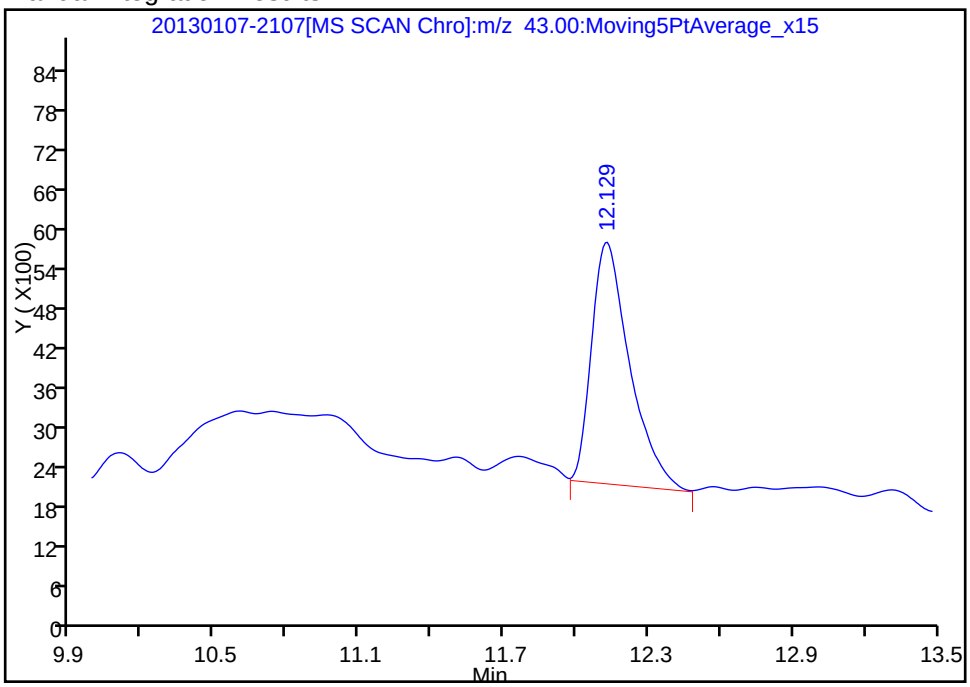
Processing Integration Results

RT: 12.13
Response: 51898
Amount: 10.806978



Manual Integration Results

RT: 12.13
Response: 40593
Amount: 8.452882



Reviewer: nihartv, 07-Jan-2013 16:48:34
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 480-30406-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 320-7689/1-A
Matrix: Solid
Lab File ID: MB 320-7689-1-A, 1-3-2013,
Analysis Method: GCMSMS_NDMA
Date Collected:
Extraction Method: 3550B
Date Extracted: 12/20/2012 13:47
Sample wt/vol: 10(g)
Date Analyzed: 01/03/2013 14:18
Con. Extract Vol.: .5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: VF-624MS ID: 0.25(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 8232
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
62-75-9	N-Nitrosodimethylamine	ND		5.0	0.76

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17829-25-9	N-Nitrosodimethylamine-d6	116		50-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\IT1\20130103-2068.b\MB 320-7689-1-A, 1-3-2013, 2-18-45 PM.d		
Lims ID:	MB 320-7689/1-A	Client ID:	
Inject. Date:	03-Jan-2013 14:18:46	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:			
Misc. Info.:			
Operator:		Instrument ID:	IT1
Injection Vol:	20.0 ul	ALS Bottle#:	0
Lims Batch ID:	8232	Lims Sample ID:	3
Raw Data:	Smoothed		
Detector:	MS SCAN		
Method:	\\SACCHROM\ChromData\IT1\20130103-2068.b\NDMA_IT1.m		
Last Update:	04-Jan-2013 11:58:27	Calib Date:	04-Dec-2012 20:21:32
Quant Method:	Isotopic Dilution	Quant By:	Initial Calibration
Last ICal File:	\\SACCHROM\ChromData\IT1\20121204-1670.b\CS-8...200pg-uL, 12-4-2012, 8-21-31 PM.d		
Limit Group:	MSS - NDMA_CIMSMS - ICAL		
Integrator:	Falcon	ID Type:	RT Order ID
Column Type:	VF-624MS	Column Dia:	0.25 mm
Process Host:	XAWRK029		

First Level Reviewer: nihartv Date: 04-Jan-2013 11:47:09

Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ng/ml	Ratio Range	Ratio	S/N	Flags
D 1 N-Nitrosodimethylamine-d6										
50	12.131	12.206	-0.075	70	489707	232.9	100.0- 100.0	100.0		
81	12.114	12.206	-0.092		239036		303.0- 303.0	48.8		
4 N-Nitrosodiethylamine										
75	16.112	16.225	-0.113	55	1059685	287.3			14281	E
* 5 2-Chloropyridine										
110	16.835	16.855	-0.020	80	4272898	400.0	100.0- 100.0	100.0		
116	16.835	16.855	-0.020		3382929		83.2- 83.2	79.2		
D 6 N-Nitrosodi-n-propylamine-d14										
97	20.772	20.787	-0.015	60	1058530	168.9				
8 N-Nitrosopyrrolidine										
55	21.853	21.753	0.100	49	73343	9.79			Infinity	
9 N-Nitrosopiperidine										
68	22.665	22.695	-0.030	40	22449	1.64			63.6	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

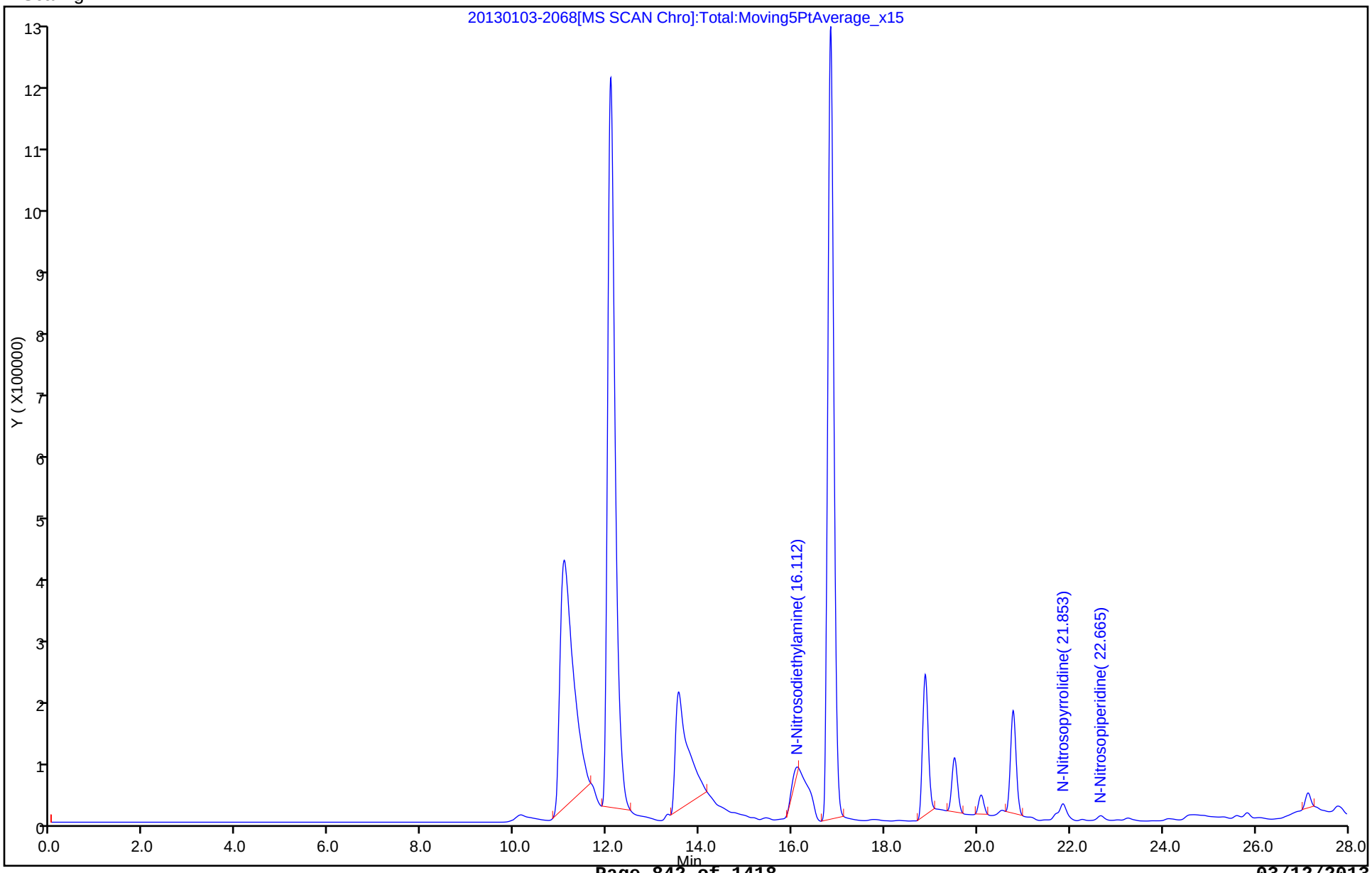
Report Date: 04-Jan-2013 11:58:28 Chrom Revision: 2.1 03-Jan-2013 18:41:16

TestAmerica Sacramento

Data File: \\SACCHROM\ChromData\IT1\20130103-2068.b\MB 320-7689-1-A, 1-3-2013, 2-18-45 PM.d

Injection Date:	03-Jan-2013 14:18:46	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:		Instrument ID:	IT1
Lims Batch ID:	8232	Lims Sample ID:	3
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm

Y Scaling:



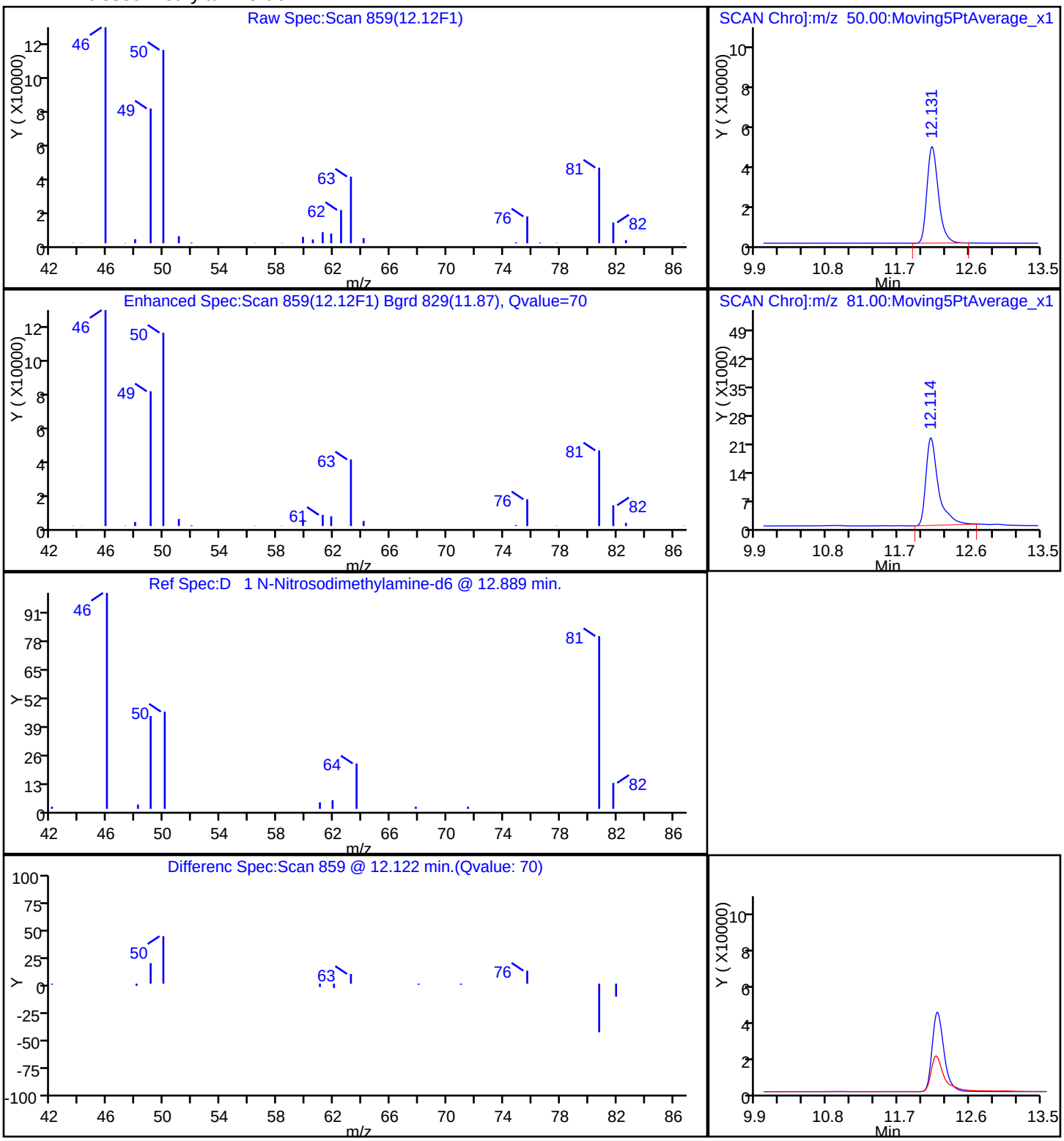
Report Date: 04-Jan-2013 11:58:28 Chrom Revision: 2.1 03-Jan-2013 18:41:16

TestAmerica Sacramento

Data File: \\SACCHROM\ChromData\IT1\20130103-2068.b\MB 320-7689-1-A, 1-3-2013, 2-18-45 PM.d

Injection Date:	03-Jan-2013 14:18:46	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:		Instrument ID:	IT1
Lims Batch ID:	8232	Lims Sample ID:	3
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm

D 1 N-Nitrosodimethylamine-d6



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 480-30406-1
SDG No.:
Client Sample ID:
Lab Sample ID: CCB 320-8232/2
Matrix: Solid
Lab File ID: CCB, 1-3-2013, 1-16-06 PM.d
Analysis Method: GCMSMS_NDMA
Date Collected:
Extraction Method:
Date Extracted:
Sample wt/vol: 1(mL)
Date Analyzed: 01/03/2013 13:16
Con. Extract Vol.: 1.0(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: VF-624MS ID: 0.25(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 8232
Units: pg/uL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
62-75-9	N-Nitrosodimethylamine	ND		2.0	0.39

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17829-25-9	N-Nitrosodimethylamine-d6			

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\IT1\20130103-2068.b\CCB, 1-3-2013, 1-16-06 PM.d		
Lims ID:	CCB	Client ID:	
Inject. Date:	03-Jan-2013 13:16:07	Dil. Factor:	1.0000
Sample Type:	CCB		
Sample ID:			
Misc. Info.:			
Operator:		Instrument ID:	IT1
Injection Vol:	20.0 ul	ALS Bottle#:	0
Lims Batch ID:	8232	Lims Sample ID:	2
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\SACCHROM\ChromData\IT1\20130103-2068.b\NDMA_IT1.m		
Last Update:	04-Jan-2013 11:58:27	Calib Date:	04-Dec-2012 20:21:32
Quant Method:	Isotopic Dilution	Quant By:	Initial Calibration
Last ICal File:	\\SACCHROM\ChromData\IT1\20121204-1670.b\CS-8...200pg-uL, 12-4-2012, 8-21-31 PM.d		
Limit Group:	MSS - NDMA_CIMSMS - ICAL		
Integrator:	Falcon	ID Type:	RT Order ID
Column Type:	VF-624MS	Column Dia:	0.25 mm
Process Host:	XAWRK029		

First Level Reviewer: nihartv Date: 04-Jan-2013 11:12:19

Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ng/ml	Ratio Range	Ratio	S/N	Flags
8 N-Nitrosopyrrolidine										
55	21.987	21.753	0.234	0	1168	0			7.2	

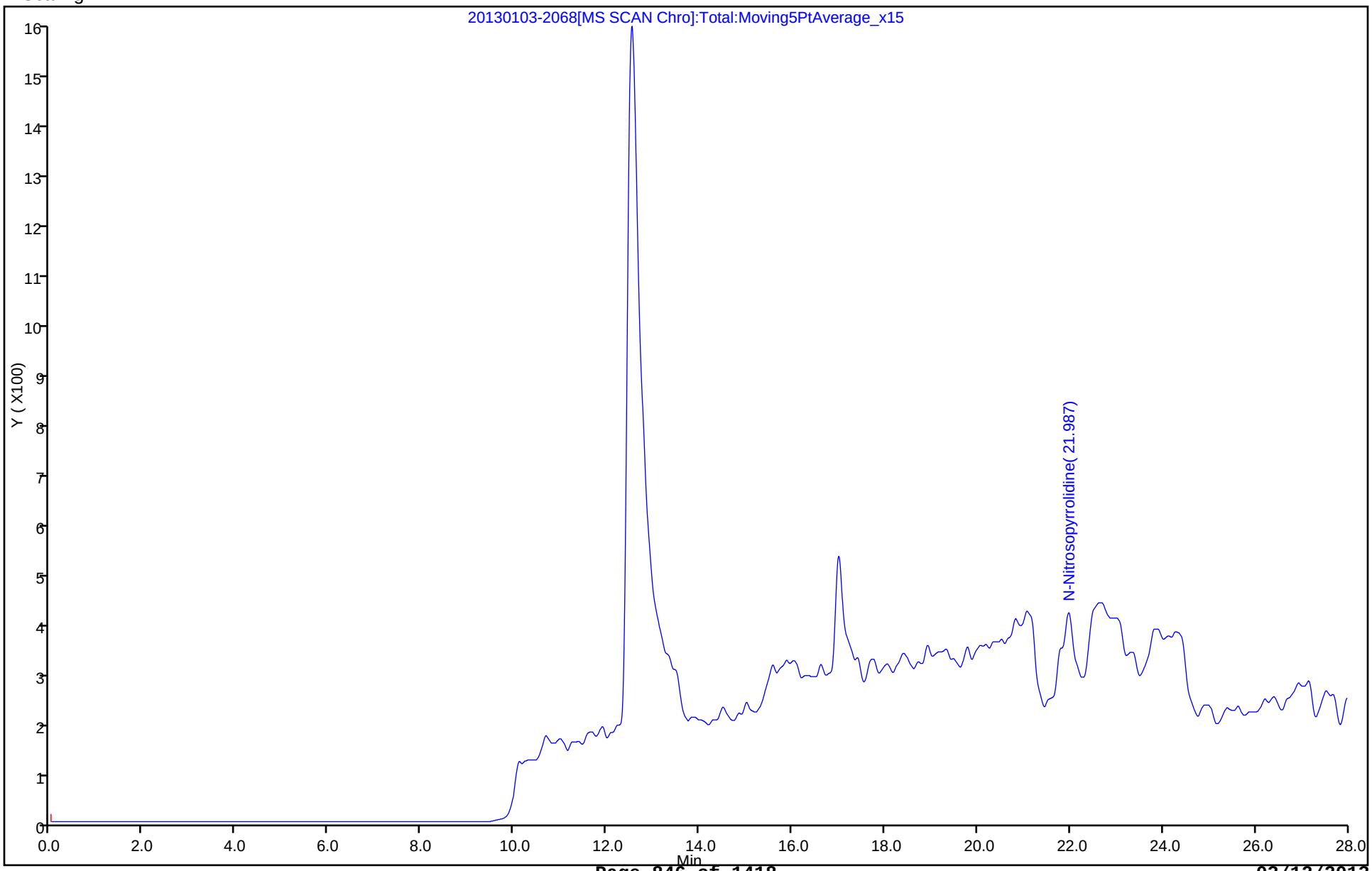
Report Date: 04-Jan-2013 11:58:27 Chrom Revision: 2.1 03-Jan-2013 18:41:16

TestAmerica Sacramento

Data File: \\SACCHROM\ChromData\IT1\20130103-2068.b\CCB, 1-3-2013, 1-16-06 PM.d

Injection Date:	03-Jan-2013 13:16:07	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:		Instrument ID:	IT1
Lims Batch ID:	8232	Lims Sample ID:	2
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm

Y Scaling:



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 480-30406-1
SDG No.:
Client Sample ID:
Lab Sample ID: CCB 320-8232/13
Matrix: Solid
Lab File ID: CCB, 1-3-2013, 11-44-43 PM.d
Analysis Method: GCMSMS_NDMA
Date Collected:
Extraction Method:
Date Extracted:
Sample wt/vol: 1(mL)
Date Analyzed: 01/03/2013 23:44
Con. Extract Vol.:
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: VF-624MS ID: 0.25(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 8232
Units: pg/uL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
62-75-9	N-Nitrosodimethylamine	ND		2.0	0.39

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17829-25-9	N-Nitrosodimethylamine-d6			

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\IT1\20130103-2068.b\CCB, 1-3-2013, 11-44-43 PM.d		
Lims ID:	CCB	Client ID:	
Inject. Date:	03-Jan-2013 23:44:44	Dil. Factor:	1.0000
Sample Type:	CCB		
Sample ID:			
Misc. Info.:			
Operator:		Instrument ID:	IT1
Injection Vol:	20.0 ul	ALS Bottle#:	0
Lims Batch ID:	8232	Lims Sample ID:	13
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\SACCHROM\ChromData\IT1\20130103-2068.b\NDMA_IT1.m		
Last Update:	04-Jan-2013 11:58:27	Calib Date:	04-Dec-2012 20:21:32
Quant Method:	Isotopic Dilution	Quant By:	Initial Calibration
Last ICal File:	\\SACCHROM\ChromData\IT1\20121204-1670.b\CS-8...200pg-uL, 12-4-2012, 8-21-31 PM.d		
Limit Group:	MSS - NDMA_CIMSMS - ICAL		
Integrator:	Falcon	ID Type:	RT Order ID
Column Type:	VF-624MS	Column Dia:	0.25 mm
Process Host:	XAWRK029		

First Level Reviewer: nihartv Date: 04-Jan-2013 11:57:49

Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ng/ml	Ratio Range	Ratio	S/N	Flags
8 N-Nitrosopyrrolidine										
55	21.904	21.753	0.151	1	3483	0			Infinity	

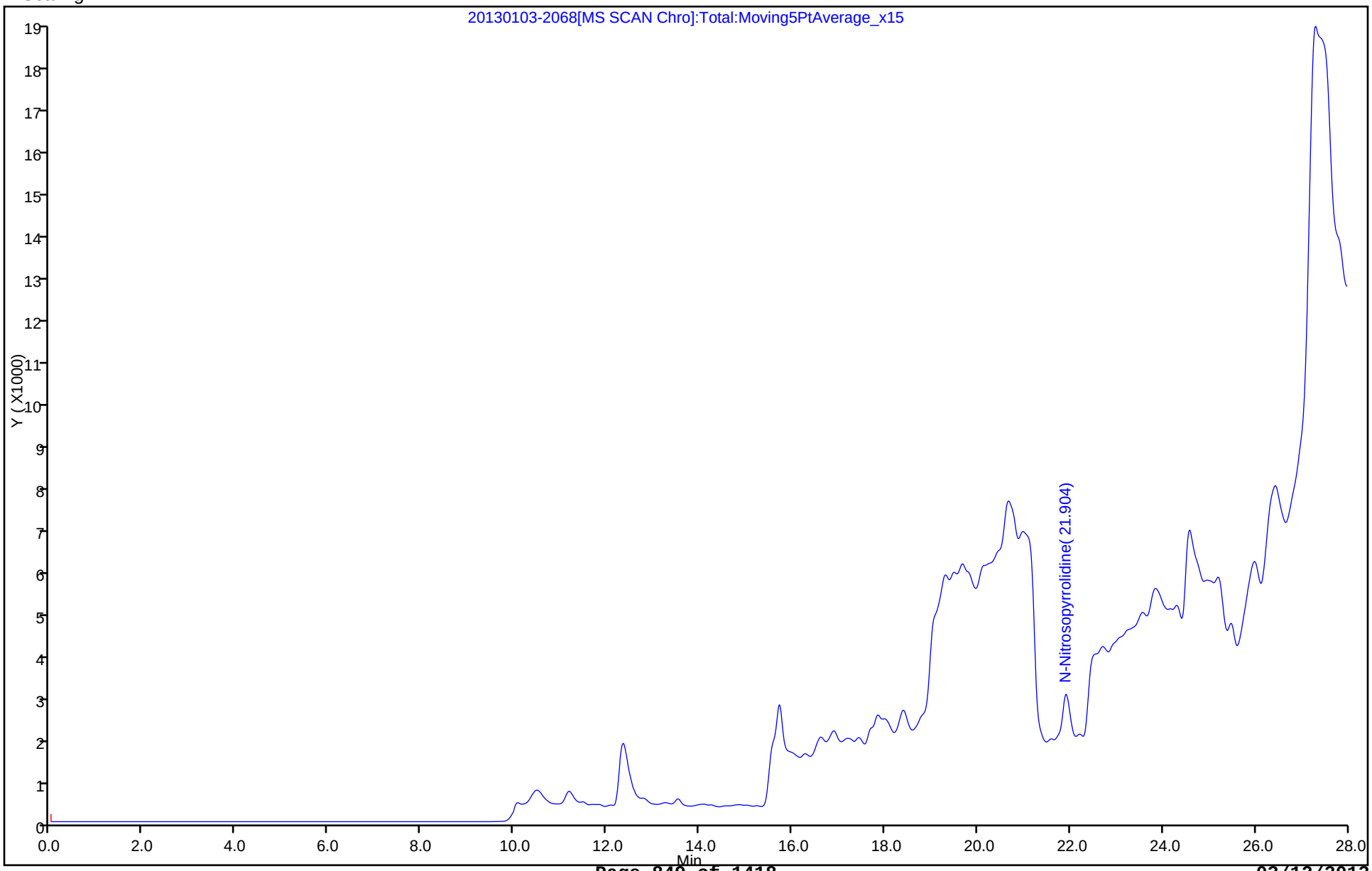
Report Date: 04-Jan-2013 11:58:32 Chrom Revision: 2.1 03-Jan-2013 18:41:16

TestAmerica Sacramento

Data File: \\SACCHROM\ChromData\IT1\20130103-2068.b\CCB, 1-3-2013, 11-44-43 PM.d

Injection Date:	03-Jan-2013 23:44:44	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:		Instrument ID:	IT1
Lims Batch ID:	8232	Lims Sample ID:	13
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm

Y Scaling:



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 480-30406-1
SDG No.:
Client Sample ID:
Lab Sample ID: CCB 320-8340/2
Matrix: Solid
Lab File ID: CCB, 1-7-2013, 5-09-03 PM.d
Analysis Method: GCMSMS_NDMA
Date Collected:
Extraction Method:
Date Extracted:
Sample wt/vol: 1(mL)
Date Analyzed: 01/07/2013 17:09
Con. Extract Vol.:
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: VF-624MS ID: 0.25(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 8340
Units: pg/uL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
62-75-9	N-Nitrosodimethylamine	ND		2.0	0.39

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17829-25-9	N-Nitrosodimethylamine-d6			

TestAmerica West Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\IT1\20130107-2107.b\CCB, 1-7-2013, 5-09-03 PM.d		
Lims ID:	CCB	Client ID:	
Inject. Date:	07-Jan-2013 17:09:04	Dil. Factor:	1.0000
Sample Type:	CCB		
Sample ID:			
Misc. Info.:			
Operator:		Instrument ID:	IT1
Injection Vol:	20.0 ul	ALS Bottle#:	0
Lims Batch ID:	8340	Lims Sample ID:	2
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\SACCHROM\ChromData\IT1\20130107-2107.b\NDMA_IT1.m		
Last Update:	08-Jan-2013 11:13:44	Calib Date:	04-Dec-2012 20:21:32
Quant Method:	Isotopic Dilution	Quant By:	Initial Calibration
Last ICal File:	\\SACCHROM\ChromData\IT1\20121204-1670.b\CS-8...200pg-uL, 12-4-2012, 8-21-31 PM.d		
Limit Group:	MSS - NDMA_CIMSMS - ICAL		
Integrator:	Falcon	ID Type:	RT Order ID
Column Type:	VF-624MS	Column Dia:	0.25 mm
Process Host:	XAWRK023		

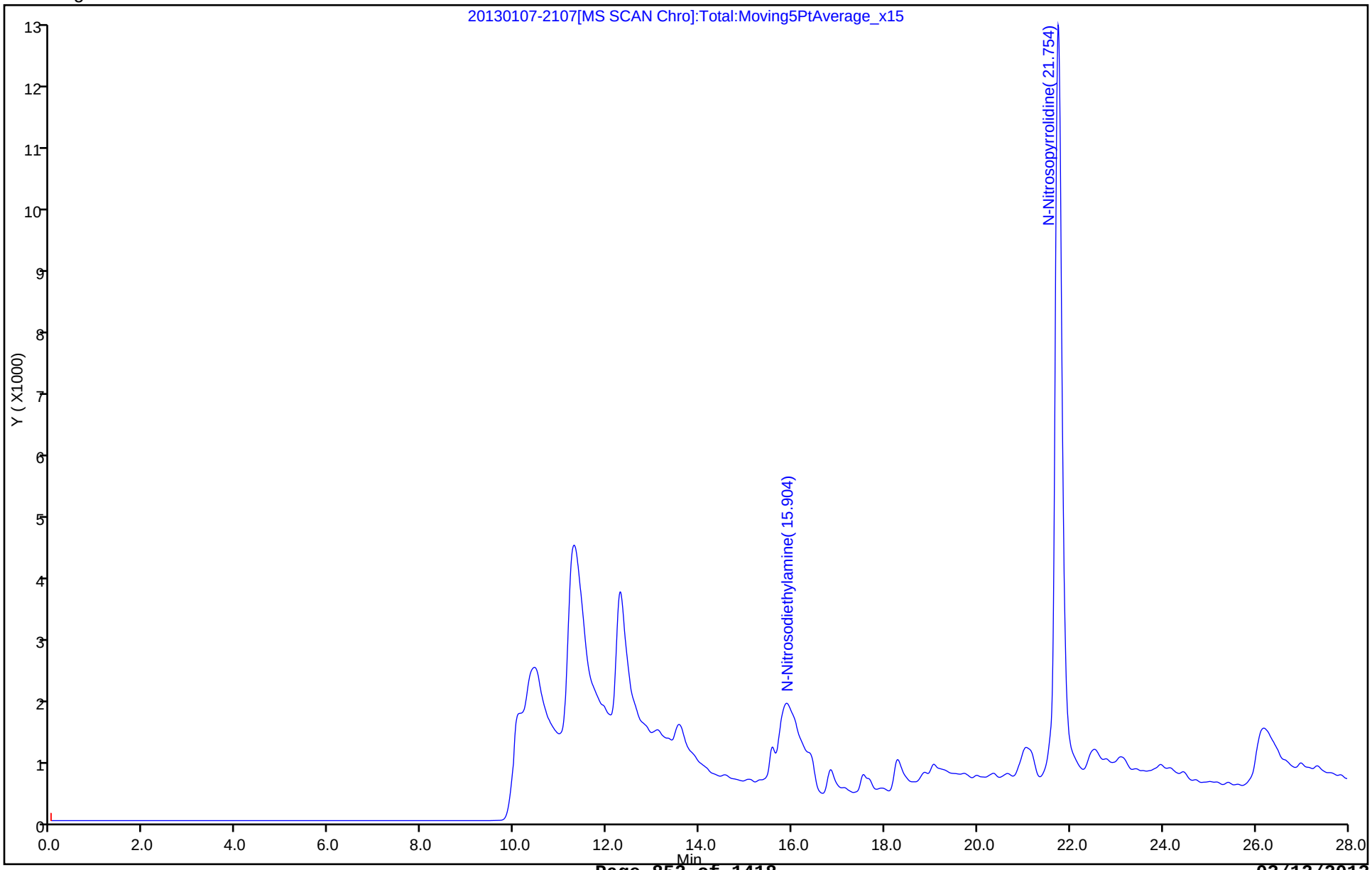
First Level Reviewer: nihartv Date: 08-Jan-2013 11:13:49

Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ng/ml	Ratio Range	Ratio	S/N	Flags
4 N-Nitrosodiethylamine										
75	15.904	16.065	-0.161	42	13180	0			231	
8 N-Nitrosopyrrolidine										
55	21.754	21.568	0.186	35	32745	0			Infinity	

Report Date: 08-Jan-2013 11:13:49 Chrom Revision: 2.1 03-Jan-2013 18:41:16

TestAmerica West Sacramento

Data File:	\\SACCHROM\ChromData\IT1\20130107-2107.b\CCB, 1-7-2013, 5-09-03 PM.d		
Injection Date:	07-Jan-2013 17:09:04	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:		Instrument ID:	IT1
Lims Batch ID:	8340	Lims Sample ID:	2
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm
Y Scaling:			



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 480-30406-1
SDG No.:
Client Sample ID:
Lab Sample ID: CCB 320-8340/9
Matrix: Solid
Lab File ID: CCB, 1-8-2013, 12-12-29 AM.d
Analysis Method: GCMSMS_NDMA
Date Collected:
Extraction Method:
Date Extracted:
Sample wt/vol: 1(mL)
Date Analyzed: 01/08/2013 00:12
Con. Extract Vol.:
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: VF-624MS ID: 0.25(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 8340
Units: pg/uL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
62-75-9	N-Nitrosodimethylamine	ND		2.0	0.39

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17829-25-9	N-Nitrosodimethylamine-d6			

TestAmerica West Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\IT1\20130107-2107.b\CCB, 1-8-2013, 12-12-29 AM.d		
Lims ID:	CCB	Client ID:	
Inject. Date:	08-Jan-2013 00:12:30	Dil. Factor:	1.0000
Sample Type:	CCB		
Sample ID:			
Misc. Info.:			
Operator:		Instrument ID:	IT1
Injection Vol:	20.0 ul	ALS Bottle#:	0
Lims Batch ID:	8340	Lims Sample ID:	9
Raw Data:	Smoothed		
Detector:	MS SCAN		

Method:	\\SACCHROM\ChromData\IT1\20130107-2107.b\NDMA_IT1.m		
Last Update:	08-Jan-2013 11:17:53	Calib Date:	04-Dec-2012 20:21:32
Quant Method:	Isotopic Dilution	Quant By:	Initial Calibration
Last ICal File:	\\SACCHROM\ChromData\IT1\20121204-1670.b\CS-8...200pg-uL, 12-4-2012, 8-21-31 PM.d		
Limit Group:	MSS - NDMA_CIMSMS - ICAL		
Integrator:	Falcon	ID Type:	RT Order ID
Column Type:	VF-624MS	Column Dia:	0.25 mm
Process Host:	XAWRK023		

First Level Reviewer: nihartv Date: 08-Jan-2013 11:17:59

Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ng/ml	Ratio Range	Ratio	S/N	Flags
* 5 2-Chloropyridine										s
110	16.766	16.693	0.073	55	2503	200.0	100.0- 100.0	100.0		
116	16.766	16.693	0.073		11152		83.2- 83.2	445.5		
D 6 N-Nitrosodi-n-propylamine-d14										
97	20.633	20.621	0.012	50	2459	0				
8 N-Nitrosopyrrolidine										
55	21.726	21.568	0.158	16	10075	0			Infinity	

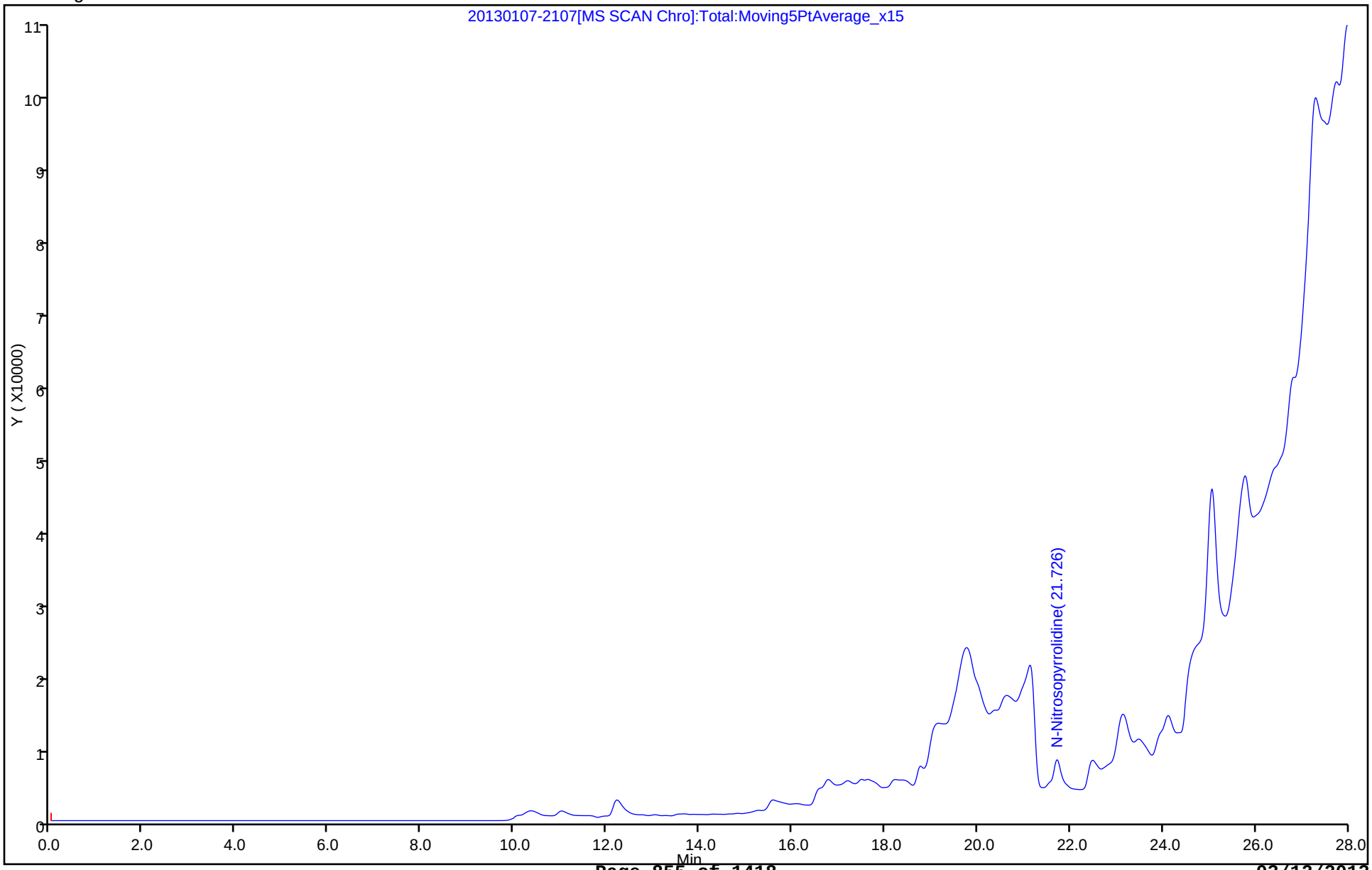
QC Flag Legend

Processing Flags
s - Failed ISTD Recovery Test

Report Date: 08-Jan-2013 11:17:59 Chrom Revision: 2.1 03-Jan-2013 18:41:16

TestAmerica West Sacramento

Data File:	\\SACCHROM\ChromData\IT1\20130107-2107.b\CCB, 1-8-2013, 12-12-29 AM.d		
Injection Date:	08-Jan-2013 00:12:30	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:		Instrument ID:	IT1
Lims Batch ID:	8340	Lims Sample ID:	9
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm
Y Scaling:			



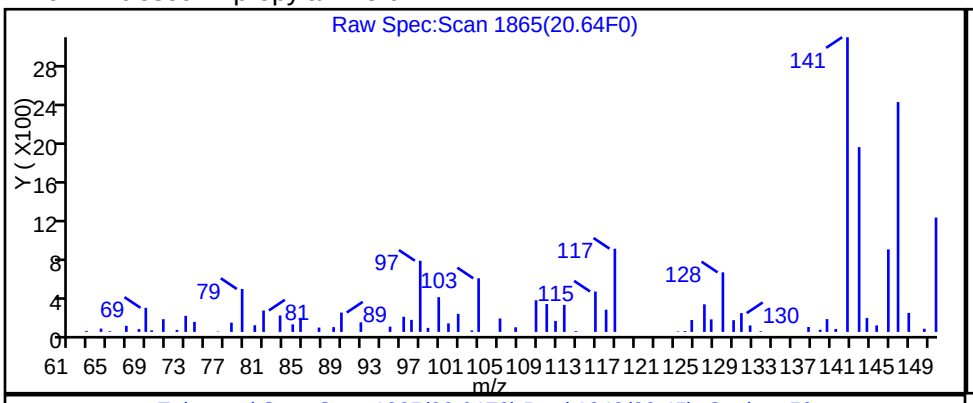
Report Date: 08-Jan-2013 11:17:59 Chrom Revision: 2.1 03-Jan-2013 18:41:16

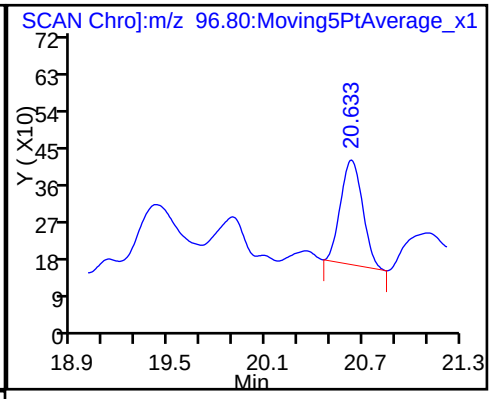
TestAmerica West Sacramento

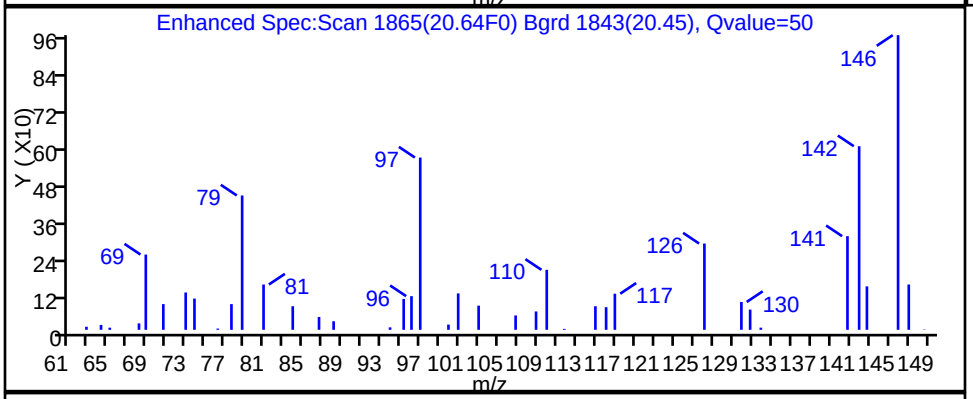
Data File: \\SACCHROM\ChromData\IT1\20130107-2107.b\CCB, 1-8-2013, 12-12-29 AM.d

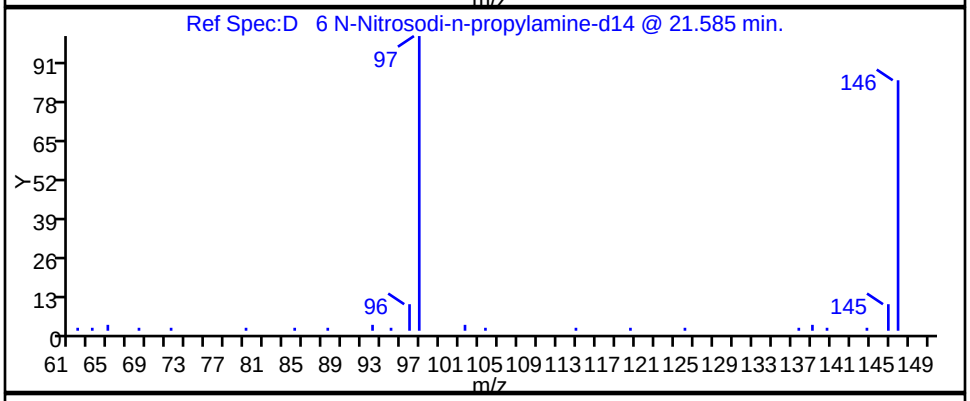
Injection Date:	08-Jan-2013 00:12:30	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:		Instrument ID:	IT1
Lims Batch ID:	8340	Lims Sample ID:	9
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm

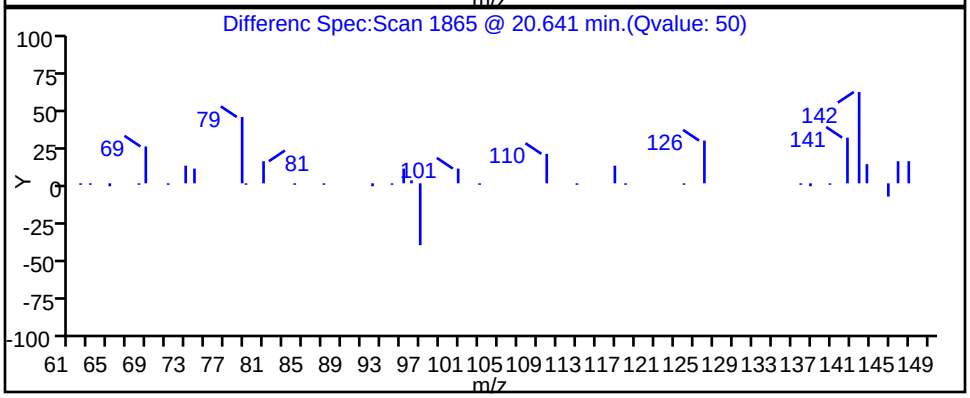
D 6 N-Nitrosodi-n-propylamine-d14











FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 480-30406-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 320-7689/2-A
Matrix: Solid
Lab File ID: LCS 320-7689-2-A, 1-3-2013,
Analysis Method: GCMSMS_NDMA
Date Collected:
Extraction Method: 3550B
Date Extracted: 12/20/2012 13:47
Sample wt/vol: 10(g)
Date Analyzed: 01/03/2013 15:21
Con. Extract Vol.: .5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: VF-624MS ID: 0.25(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 8232
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
62-75-9	N-Nitrosodimethylamine	9.56		5.0	0.76

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17829-25-9	N-Nitrosodimethylamine-d6	111		50-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACCHROM\ChromData\IT1\20130103-2068.b\LCS 320-7689-2-A, 1-3-2013, 3-21-29 PM.d
Lims ID: LCS 320-7689/2-A Client ID:
Inject. Date: 03-Jan-2013 15:21:30 Dil. Factor: 1.0000
Sample Type: LCS
Sample ID:
Misc. Info.:
Operator: Instrument ID: IT1
Injection Vol: 20.0 ul ALS Bottle#: 0
Lims Batch ID: 8232 Lims Sample ID: 4
Raw Data: Smoothed
Detector: MS SCAN

Method: \\SACCHROM\ChromData\IT1\20130103-2068.b\NDMA_IT1.m
Last Update: 04-Jan-2013 11:58:27 Calib Date: 04-Dec-2012 20:21:32
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\SACCHROM\ChromData\IT1\20121204-1670.b\CS-8...200pg-uL, 12-4-2012, 8-21-31 PM.d
Limit Group: MSS - NDMA_CIMSMS - ICAL
Integrator: Falcon ID Type: RT Order ID
Column Type: VF-624MS Column Dia: 0.25 mm
Process Host: XAWRK029

First Level Reviewer: nihartv Date: 04-Jan-2013 11:47:30

Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ng/ml	Ratio Range	Ratio	S/N	Flags
D 1 N-Nitrosodimethylamine-d6										
50	12.103	12.206	-0.103	59	556728	222.6	100.0- 100.0	100.0		
81	12.087	12.206	-0.119		281789		303.0- 303.0	50.6		
2 N-Nitrosodimethylamine										
43	12.163	12.257	-0.094	1	852178		100.0- 100.0	100.0	52.3	E
47	12.163	12.257	-0.094		565864		70.8- 70.8	66.4		E
	Summary Peak				1418042	191.1				
3 N-Nitrosomethylethylamine										
61	14.293	14.402	-0.109	82	1433124	161.7			21626	
4 N-Nitrosodiethylamine										
75	16.153	16.225	-0.072	41	805598	192.1			73549	
* 5 2-Chloropyridine										
110	16.824	16.855	-0.031	82	5082489	400.0	100.0- 100.0	100.0		
116	16.824	16.855	-0.031		4141509		83.2- 83.2	81.5		
D 6 N-Nitrosodi-n-propylamine-d14										
97	20.771	20.787	-0.016	60	1130420	151.6				
7 N-Nitrosodi-n-propylamine										
89	20.973	20.991	-0.018	8	1664603	219.5			453	E
8 N-Nitrosopyrrolidine										
55	21.689	21.753	-0.064	66	1700232	212.5			Infinity	E
9 N-Nitrosopiperidine										
68	22.657	22.695	-0.038	56	2904276	199.2			559	
10 N-Nitrosodi-n-butylamine										
57	26.092	26.110	-0.018	69	224047		100.0- 100.0	100.0	Infinity	E
103	26.092	26.110	-0.018		1442980		609.7- 609.7	644.1		E
	Summary Peak				1667027	256.3				

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

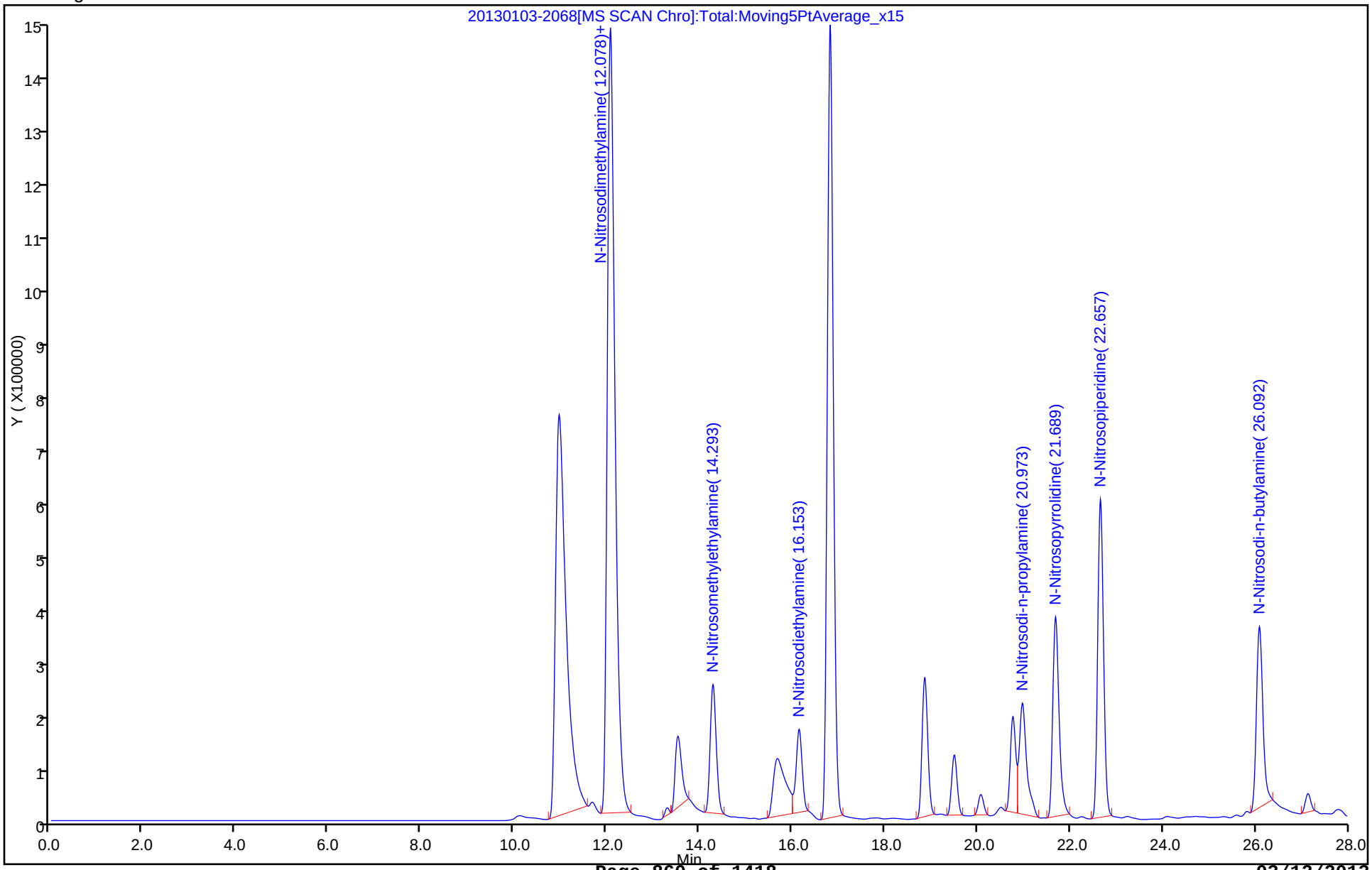
Report Date: 04-Jan-2013 11:58:28 Chrom Revision: 2.1 03-Jan-2013 18:41:16

TestAmerica Sacramento

Data File: \\SACCHROM\ChromData\IT1\20130103-2068.b\LCS 320-7689-2-A, 1-3-2013, 3-21-29 PM.d

Injection Date:	03-Jan-2013 15:21:30	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:		Instrument ID:	IT1
Lims Batch ID:	8232	Lims Sample ID:	4
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm

Y Scaling:



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 480-30406-1
SDG No.:
Client Sample ID: OC-SD-SD-503-XXX MS
Lab Sample ID: 480-30406-1 MS
Matrix: Solid
Lab File ID: 480-30406-B-1-B MS, 1-3-2013,
Analysis Method: GCMSMS_NDMA
Date Collected: 12/17/2012 14:30
Extraction Method: 3550B
Date Extracted: 12/20/2012 13:47
Sample wt/vol: 9.67(g)
Date Analyzed: 01/03/2013 17:27
Con. Extract Vol.: .5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: VF-624MS ID: 0.25(mm)
% Moisture: 36.1
GPC Cleanup:(Y/N) N
Analysis Batch No.: 8232
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
62-75-9	N-Nitrosodimethylamine	18.4		8.1	1.2

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17829-25-9	N-Nitrosodimethylamine-d6	82		50-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\IT1\20130103-2068.b\480-30406-B-1-B MS, 1-3-2013, 5-27-14 PM.d		
Lims ID:	480-30406-B-1-B MS	Client ID:	
Inject. Date:	03-Jan-2013 17:27:15	Dil. Factor:	1.0000
Sample Type:	MS		
Sample ID:			
Misc. Info.:			
Operator:		Instrument ID:	IT1
Injection Vol:	20.0 ul	ALS Bottle#:	0
Lims Batch ID:	8232	Lims Sample ID:	6
Raw Data:	Smoothed		
Detector:	MS SCAN		
Method:	\\SACCHROM\ChromData\IT1\20130103-2068.b\NDMA_IT1.m		
Last Update:	04-Jan-2013 11:58:27	Calib Date:	04-Dec-2012 20:21:32
Quant Method:	Isotopic Dilution	Quant By:	Initial Calibration
Last ICal File:	\\SACCHROM\ChromData\IT1\20121204-1670.b\CS-8...200pg-uL, 12-4-2012, 8-21-31 PM.d		
Limit Group:	MSS - NDMA_CIMSMS - ICAL		
Integrator:	Falcon	ID Type:	RT Order ID
Column Type:	VF-624MS	Column Dia:	0.25 mm
Process Host:	XAWRK029		

First Level Reviewer: nihartv Date: 04-Jan-2013 11:54:48

Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ng/ml	Ratio Range	Ratio	S/N	Flags
D 1 N-Nitrosodimethylamine-d6										
50	12.126	12.206	-0.080	61	345559	164.7	100.0- 100.0	100.0		
81	12.109	12.206	-0.097		110301		303.0- 303.0	31.9		
2 N-Nitrosodimethylamine										M
43	12.185	12.257	-0.072	14	557744		100.0- 100.0	100.0	46.0	EM
47	12.168	12.257	-0.089		490183		70.8- 70.8	87.9		EM
	Summary Peak				1047927	227.3				
3 N-Nitrosomethylethylamine										
61	14.304	14.402	-0.098	79	1002051	182.2			1612	
4 N-Nitrosodiethylamine										
75	16.181	16.225	-0.044	47	385956	148.3			1.3	
* 5 2-Chloropyridine										
110	16.844	16.855	-0.011	83	4262086	400.0	100.0- 100.0	100.0		
116	16.844	16.855	-0.011		3722596		83.2- 83.2	87.3		
D 6 N-Nitrosodi-n-propylamine-d14										
97	20.810	20.787	0.023	67	1216602	194.6				
7 N-Nitrosodi-n-propylamine										
89	21.008	20.991	0.017	1	1130511	138.5			16.0	
8 N-Nitrosopyrrolidine										
55	21.720	21.753	-0.033	80	1113402	129.3			Infinity	
9 N-Nitrosopiperidine										
68	22.714	22.695	0.019	34	1099760	70.1			74.8	
10 N-Nitrosodi-n-butylamine										
57	25.878	26.110	-0.232	72	7851		100.0- 100.0	100.0	23.3	
103	25.841	26.110	-0.269		178121		609.7- 609.7	2268.8		
	Summary Peak				185972	26.6				

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

Review Flags
M - Manually Integrated

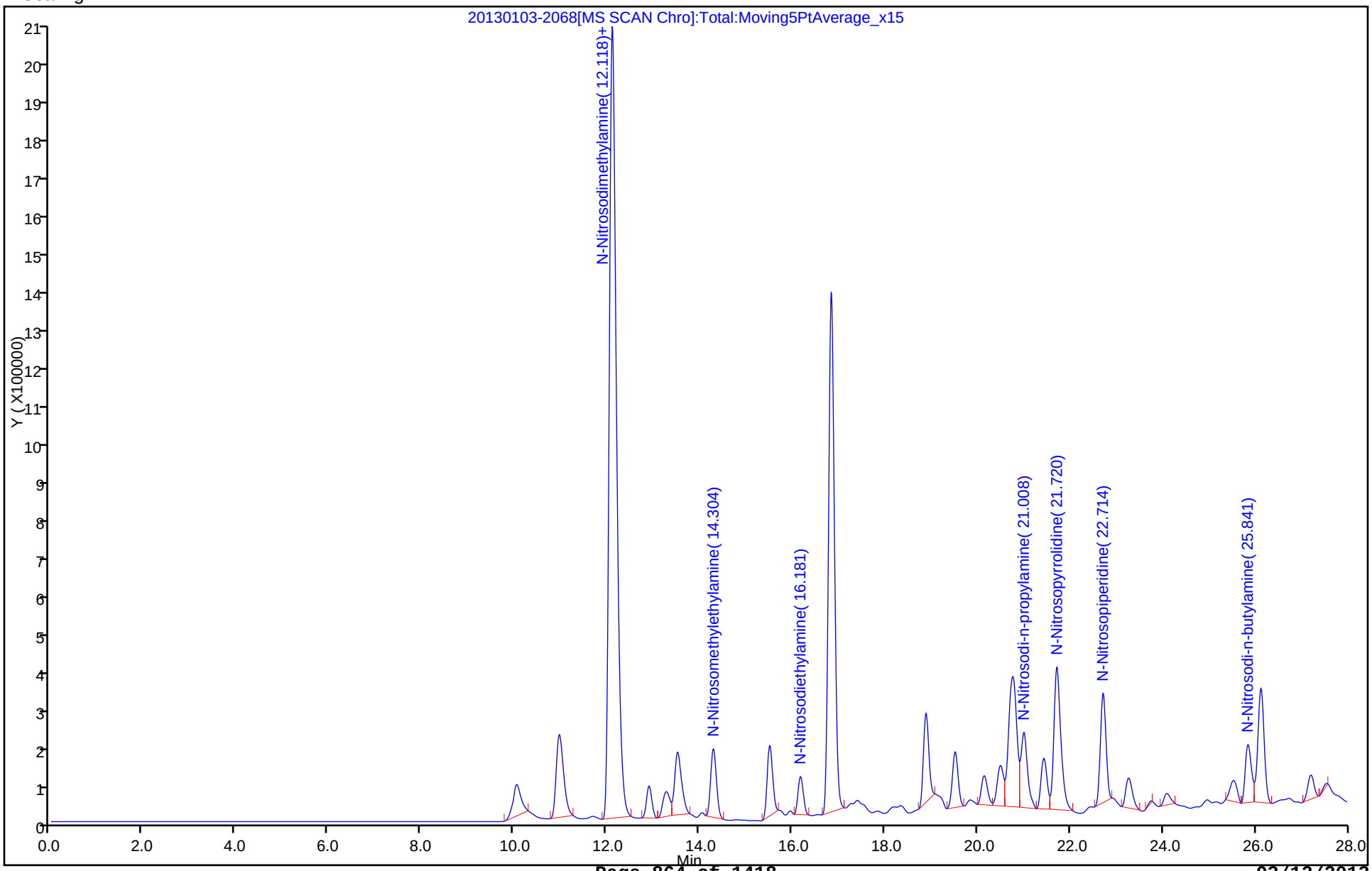
Report Date: 04-Jan-2013 11:58:29 Chrom Revision: 2.1 03-Jan-2013 18:41:16

TestAmerica Sacramento

Data File: \\SACCHROM\ChromData\IT1\20130103-2068.b\480-30406-B-1-B MS, 1-3-2013, 5-27-14 PM.d

Injection Date:	03-Jan-2013 17:27:15	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:		Instrument ID:	IT1
Lims Batch ID:	8232	Lims Sample ID:	6
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm

Y Scaling:



Report Date: 04-Jan-2013 11:58:29 Chrom Revision: 2.1 03-Jan-2013 18:41:16

Manual Integration/User Assign Peak Report

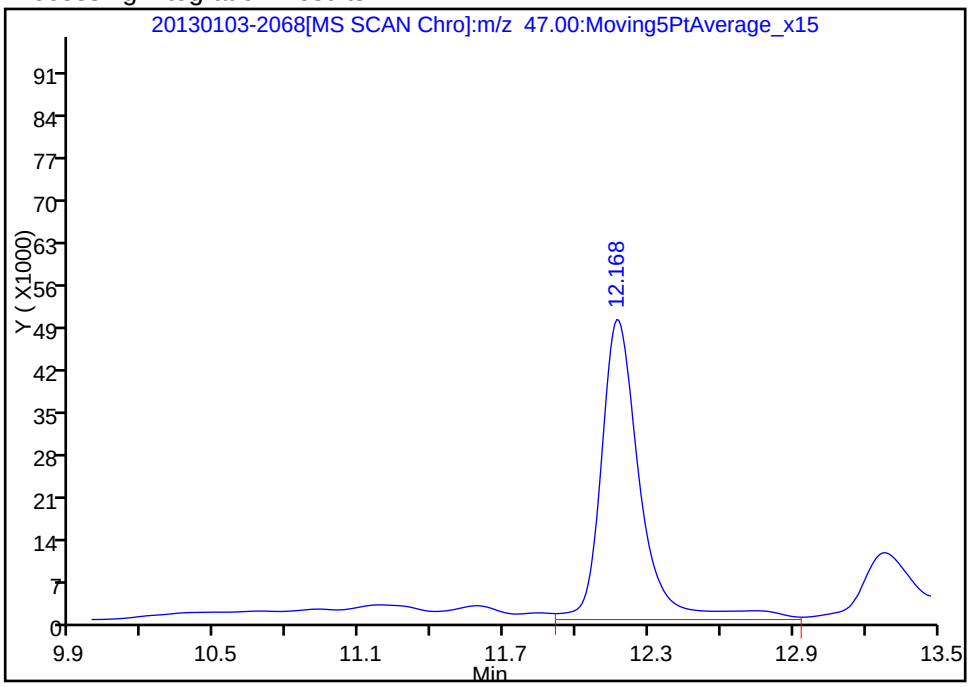
TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\IT1\20130103-2068.b\480-30406-B-1-B MS, 1-3-2013, 5-27-14 PM.d		
Injection Date:	03-Jan-2013 17:27:15	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:		Instrument ID:	IT1
Lims Batch ID:	8232	Lims Sample ID:	6
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm

2 N-Nitrosodimethylamine, Signal: 2, m/z: 47.0 Type: quant, RT: 12.26

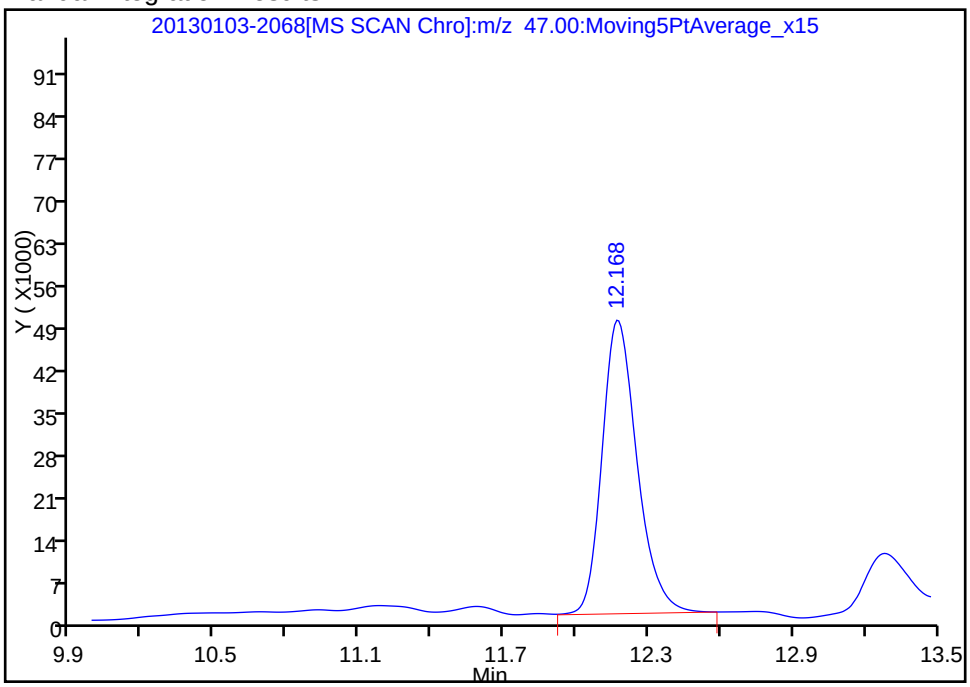
Processing Integration Results

RT: 12.17
Response: 559829
Amount: 376.9762



Manual Integration Results

RT: 12.17
Response: 490183
Amount: 330.0781



Reviewer: nihartv, 04-Jan-2013 11:54:48
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

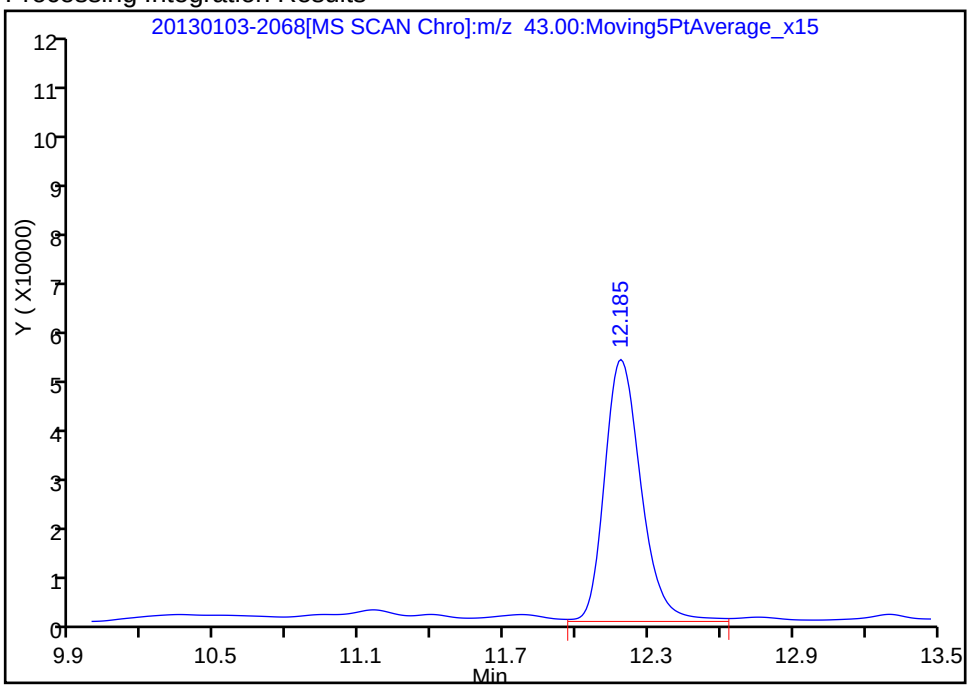
TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\IT1\20130103-2068.b\480-30406-B-1-B MS, 1-3-2013, 5-27-14 PM.d		
Injection Date:	03-Jan-2013 17:27:15	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:		Instrument ID:	IT1
Lims Batch ID:	8232	Lims Sample ID:	6
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm

2 N-Nitrosodimethylamine, Signal: 1, m/z: 43.0 Type: quant, RT: 12.26

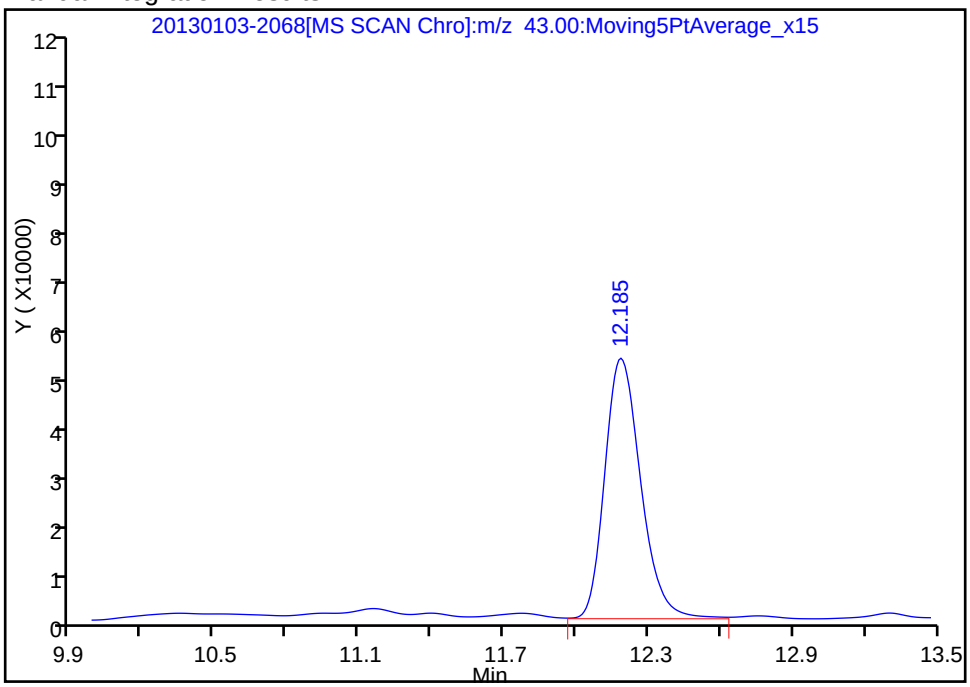
Processing Integration Results

RT: 12.19
Response: 569221
Amount: 257.4124



Manual Integration Results

RT: 12.19
Response: 557744
Amount: 252.2223



Reviewer: nihartv, 04-Jan-2013 11:54:48
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 480-30406-1
SDG No.:
Client Sample ID: OC-SD-SD-503-XXX MSD
Lab Sample ID: 480-30406-1 MSD
Matrix: Solid
Lab File ID: 480-30406-B-1-C MSD, 1-3-2013,
Analysis Method: GCMSMS_NDMA
Date Collected: 12/17/2012 14:30
Extraction Method: 3550B
Date Extracted: 12/20/2012 13:47
Sample wt/vol: 10.44(g)
Date Analyzed: 01/03/2013 18:30
Con. Extract Vol.: .5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: VF-624MS ID: 0.25(mm)
% Moisture: 36.1
GPC Cleanup:(Y/N) N
Analysis Batch No.: 8232
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
62-75-9	N-Nitrosodimethylamine	13.8		7.5	1.1

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17829-25-9	N-Nitrosodimethylamine-d6	89		50-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACCHROM\ChromData\IT1\20130103-2068.b\480-30406-B-1-C MSD, 1-3-2013, 6-30-10 PM.d
Lims ID: 480-30406-B-1-C MSD Client ID:
Inject. Date: 03-Jan-2013 18:30:11 Dil. Factor: 1.0000
Sample Type: MSD
Sample ID:
Misc. Info.:
Operator: Instrument ID: IT1
Injection Vol: 20.0 ul ALS Bottle#: 0
Lims Batch ID: 8232 Lims Sample ID: 7
Raw Data: Smoothed
Detector: MS SCAN

Method: \\SACCHROM\ChromData\IT1\20130103-2068.b\NDMA_IT1.m
Last Update: 04-Jan-2013 11:58:27 Calib Date: 04-Dec-2012 20:21:32
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\SACCHROM\ChromData\IT1\20121204-1670.b\CS-8...200pg-uL, 12-4-2012, 8-21-31 PM.d
Limit Group: MSS - NDMA_CIMSMS - ICAL
Integrator: Falcon ID Type: RT Order ID
Column Type: VF-624MS Column Dia: 0.25 mm
Process Host: XAWRK029

First Level Reviewer: nihartv Date: 04-Jan-2013 11:56:00

Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ng/ml	Ratio Range	Ratio	S/N	Flags
D 1 N-Nitrosodimethylamine-d6										
50	12.149	12.206	-0.057	51	378164	178.2	100.0- 100.0	100.0		
81	12.124	12.206	-0.082		68112		303.0- 303.0	18.0		
2 N-Nitrosodimethylamine										M
43	12.200	12.257	-0.057	19	581285		100.0- 100.0	100.0	107	EM
47	12.208	12.257	-0.049		345321		70.8- 70.8	59.4		EM
	Summary Peak				926606	183.9				
3 N-Nitrosomethylethylamine										
61	14.312	14.402	-0.090	80	992134	164.8			2059	
4 N-Nitrosodiethylamine										
75	16.193	16.225	-0.032	56	355498	124.8			1.1	
* 5 2-Chloropyridine										
110	16.860	16.855	0.005	83	4311371	400.0	100.0- 100.0	100.0		
116	16.860	16.855	0.005		3913381		83.2- 83.2	90.8		
D 6 N-Nitrosodi-n-propylamine-d14										
97	20.813	20.787	0.026	73	986293	156.0				
7 N-Nitrosodi-n-propylamine										
89	21.013	20.991	0.022	1	998222	150.9			5.4	
8 N-Nitrosopyrrolidine										
55	21.725	21.753	-0.028	0	686221	98.3			Infinity	
9 N-Nitrosopiperidine										
68	22.700	22.695	0.005	63	2111429	166.0			128	
10 N-Nitrosodi-n-butylamine										
57	26.140	26.110	0.030	26	139723		100.0- 100.0	100.0	1306	
103	26.150	26.110	0.040		310374		609.7- 609.7	222.1		
	Summary Peak				450097	79.3				

QC Flag Legend

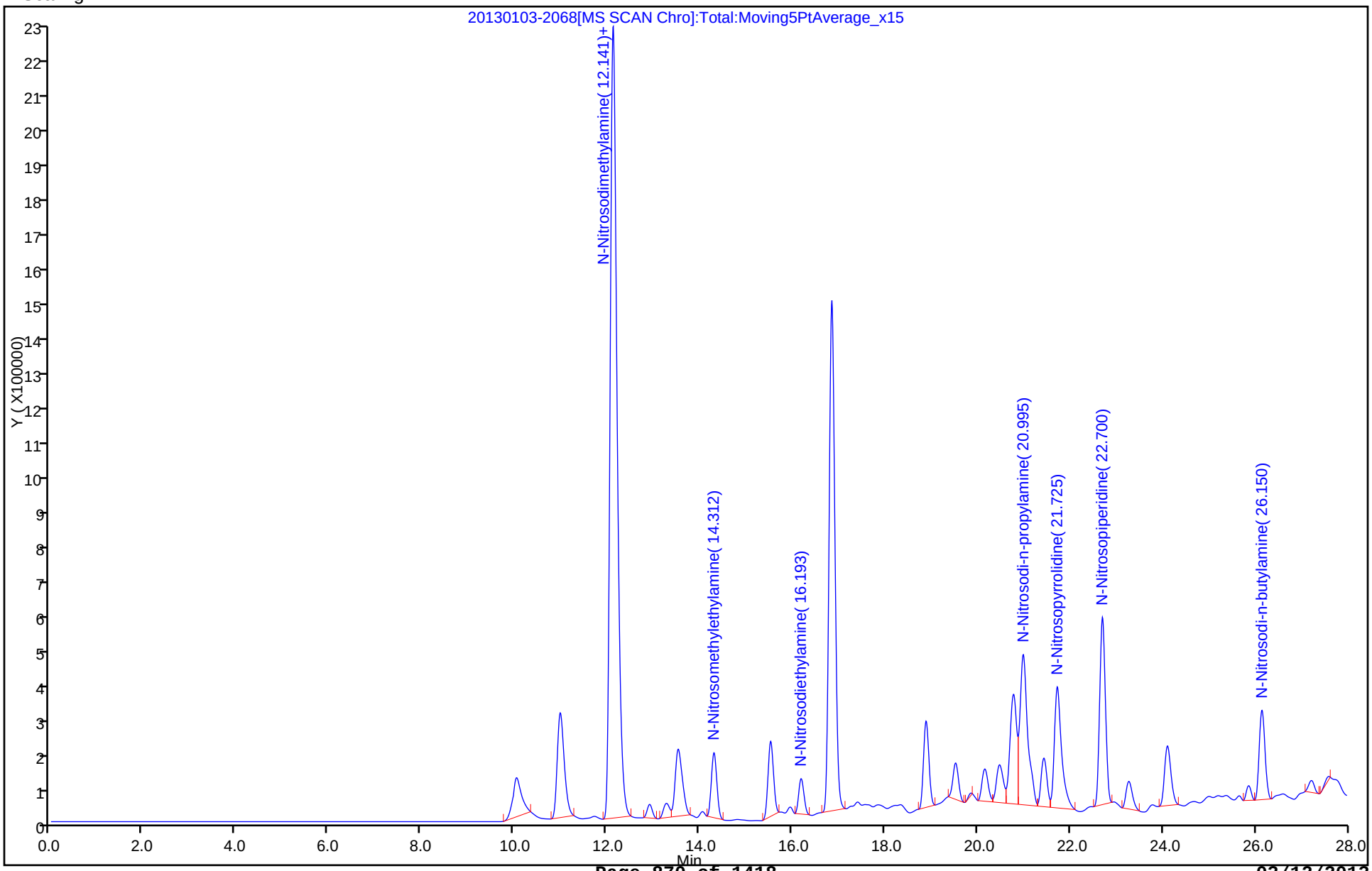
Processing Flags
E - Exceeded Maximum Amount

Review Flags
M - Manually Integrated

Report Date: 04-Jan-2013 11:58:30 Chrom Revision: 2.1 03-Jan-2013 18:41:16

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\IT1\20130103-2068.b\480-30406-B-1-C MSD, 1-3-2013, 6-30-10 PM.d		
Injection Date:	03-Jan-2013 18:30:11	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:		Instrument ID:	IT1
Lims Batch ID:	8232	Lims Sample ID:	7
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm
Y Scaling:			



Manual Integration/User Assign Peak Report

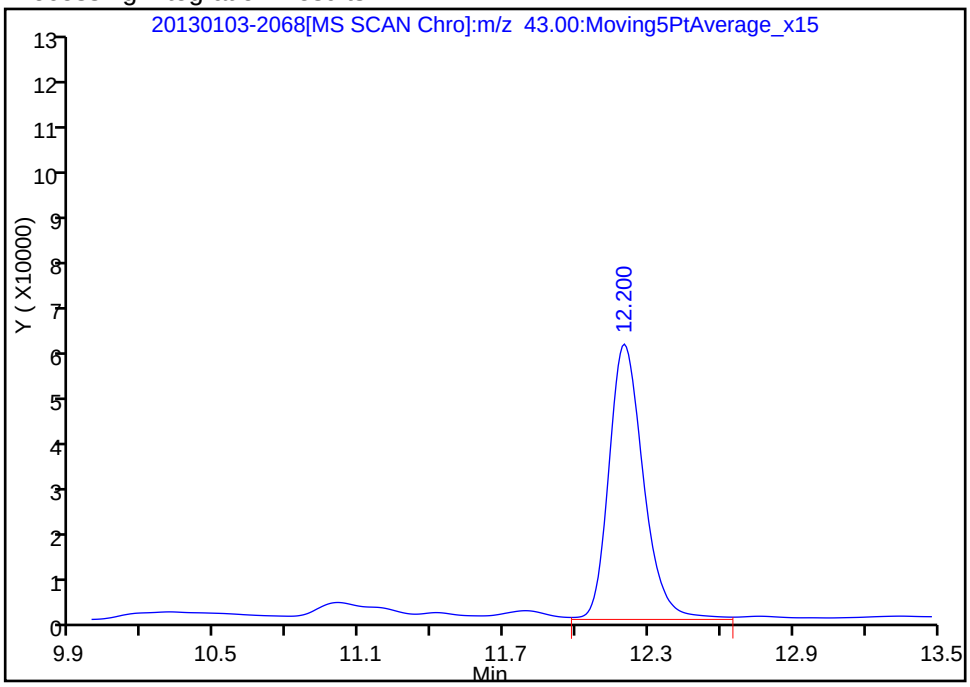
TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\IT1\20130103-2068.b\480-30406-B-1-C MSD, 1-3-2013, 6-30-10 PM.d		
Injection Date:	03-Jan-2013 18:30:11	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:		Instrument ID:	IT1
Lims Batch ID:	8232	Lims Sample ID:	7
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm

2 N-Nitrosodimethylamine, Signal: 1, m/z: 43.0 Type: quant, RT: 12.26

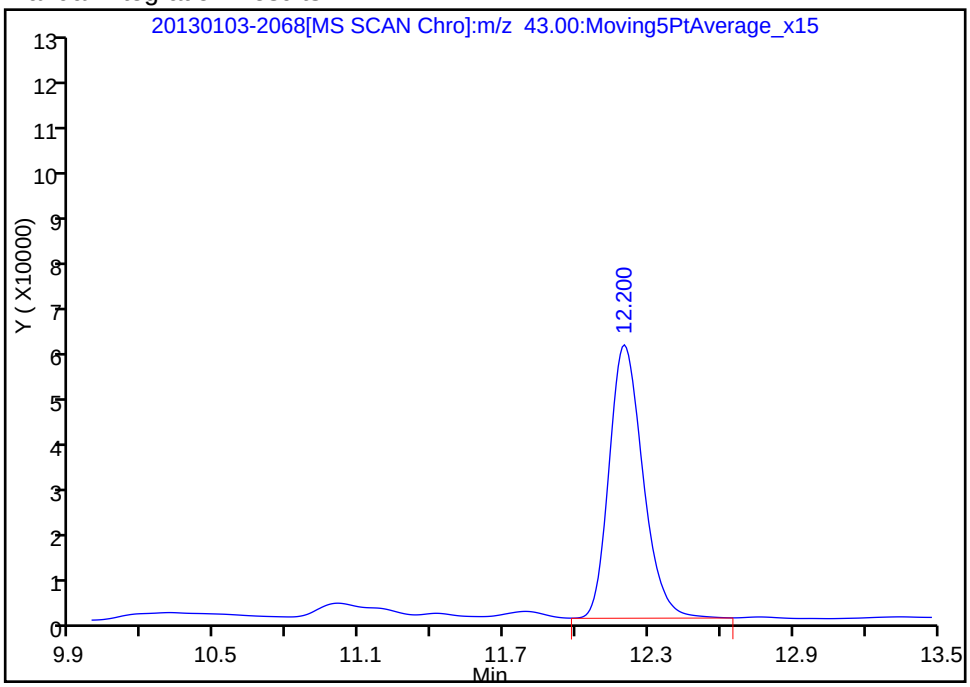
Processing Integration Results

RT: 12.20
Response: 598330
Amount: 247.2472



Manual Integration Results

RT: 12.20
Response: 581285
Amount: 240.2037



Reviewer: nihartv, 04-Jan-2013 11:56:00
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

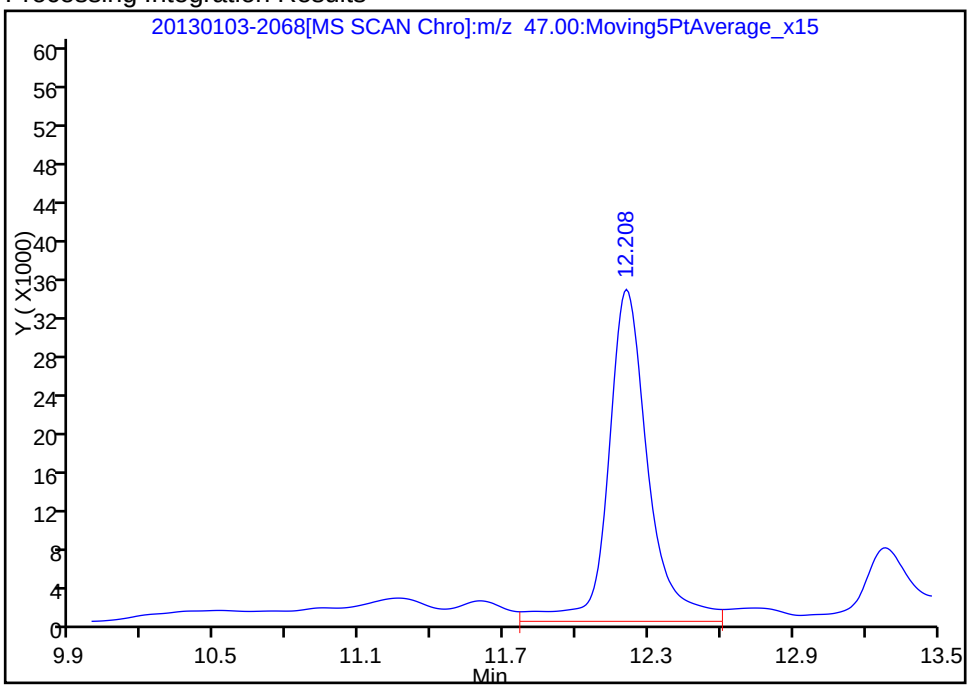
TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\IT1\20130103-2068.b\480-30406-B-1-C MSD, 1-3-2013, 6-30-10 PM.d		
Injection Date:	03-Jan-2013 18:30:11	Limit Group:	MSS - NDMA_CIMSMS - ICAL
Client ID:		Instrument ID:	IT1
Lims Batch ID:	8232	Lims Sample ID:	7
Operator ID:		Injection Vol:	20.0 ul
Column Type:	VF-624MS	Column Dia:	0.25 mm

2 N-Nitrosodimethylamine, Signal: 2, m/z: 47.0 Type: quant, RT: 12.26

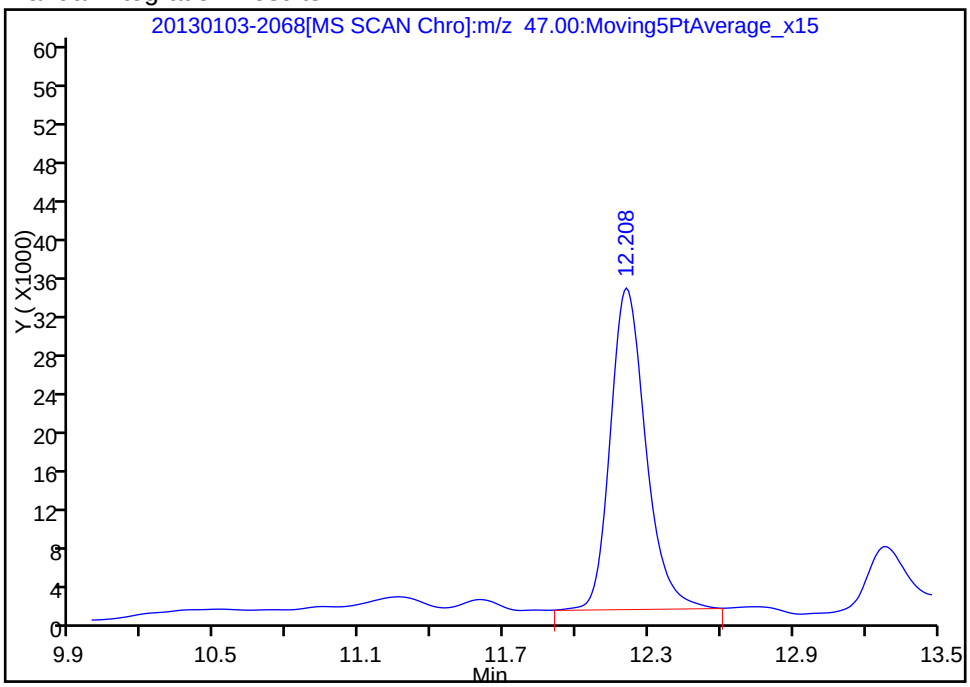
Processing Integration Results

RT: 12.21
Response: 400474
Amount: 246.4194



Manual Integration Results

RT: 12.21
Response: 345321
Amount: 212.4827



Reviewer: nihartv, 04-Jan-2013 11:56:00
Audit Action: Manually Integrated
Audit Reason: Baseline

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 480-30406-1

SDG No.:

Instrument ID: IT1 Start Date: 12/04/2012 11:52

Analysis Batch Number: 6853 End Date: 12/05/2012 03:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		12/04/2012 11:52	1		VF-624MS 0.25(mm)
ZZZZZ		12/04/2012 12:44	1		VF-624MS 0.25(mm)
ICB 320-6853/3		12/04/2012 13:34	1		VF-624MS 0.25(mm)
STD01 320-6853/4 IC		12/04/2012 14:25	1	CS-1...1.0pg-uL , 12-4-2012, 2-25-44 PM.d	VF-624MS 0.25(mm)
STD02 320-6853/5 IC		12/04/2012 15:16	1	CS-2...2.0pg-uL , 12-4-2012, 3-16-37 PM.d	VF-624MS 0.25(mm)
STD03 320-6853/6 IC		12/04/2012 16:07	1	CS-3...5.0pg-uL , 12-4-2012, 4-07-24 PM.d	VF-624MS 0.25(mm)
STD04 320-6853/7 IC		12/04/2012 16:58	1	CS-4...10pg-uL, 12-4-2012, 4-58-09 PM.d	VF-624MS 0.25(mm)
STD05 320-6853/8 ICRT		12/04/2012 17:49	1	CS-5...20pg-uL, 12-4-2012, 5-49-01 PM.d	VF-624MS 0.25(mm)
STD06 320-6853/9 IC		12/04/2012 18:39	1	CS-6...50pg-uL, 12-4-2012, 6-39-49 PM.d	VF-624MS 0.25(mm)
STD07 320-6853/10 IC		12/04/2012 19:30	1	CS-7...100pg-uL , 12-4-2012, 7-30-40 PM.d	VF-624MS 0.25(mm)
STD08 320-6853/11 IC		12/04/2012 20:21	1	CS-8...200pg-uL , 12-4-2012, 8-21-31 PM.d	VF-624MS 0.25(mm)
ICV 320-6853/12		12/04/2012 21:12	1	2nd Source.10pg-uL, 12-4-2012, 9-12-17 PM.d	VF-624MS 0.25(mm)
CCB 320-6853/13		12/04/2012 22:03	1		VF-624MS 0.25(mm)
ZZZZZ		12/04/2012 22:54	1		VF-624MS 0.25(mm)
ZZZZZ		12/04/2012 23:44	1		VF-624MS 0.25(mm)
ZZZZZ		12/05/2012 00:35	1		VF-624MS 0.25(mm)
ZZZZZ		12/05/2012 01:26	1		VF-624MS 0.25(mm)
ZZZZZ		12/05/2012 02:17	1		VF-624MS 0.25(mm)
CCB 320-6853/19		12/05/2012 03:08	1		VF-624MS 0.25(mm)

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 480-30406-1

SDG No.:

Instrument ID: IT1 Start Date: 01/03/2013 12:13

Analysis Batch Number: 8232 End Date: 01/03/2013 23:44

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 320-8232/1		01/03/2013 12:13	1	CS-4...10pg-uL, 1-3-2013, 12-13-20 PM.d	VF-624MS 0.25(mm)
CCB 320-8232/2		01/03/2013 13:16	1	CCB, 1-3-2013, 1-16-06 PM.d	VF-624MS 0.25(mm)
MB 320-7689/1-A		01/03/2013 14:18	1	MB 320-7689-1-A, 1-3-2013, 2-18-45 PM.d	VF-624MS 0.25(mm)
LCS 320-7689/2-A		01/03/2013 15:21	1	LCS 320-7689-2-A, 1-3-2013, 3-21-29 PM.d	VF-624MS 0.25(mm)
480-30406-1	OC-SD-SD-503-XXX	01/03/2013 16:24	1	480-30406-B-1-A , 1-3-2013, 4-24-13 PM.d	VF-624MS 0.25(mm)
480-30406-1 MS	OC-SD-SD-503-XXX MS	01/03/2013 17:27	1	480-30406-B-1-B MS, 1-3-2013, 5-27-14 PM.d	VF-624MS 0.25(mm)
480-30406-1 MSD	OC-SD-SD-503-XXX MSD	01/03/2013 18:30	1	480-30406-B-1-C MSD, 1-3-2013, 6-30-10 PM.d	VF-624MS 0.25(mm)
480-30406-2	OC-SD-SD-504-XXX	01/03/2013 19:33	1	480-30406-B-2-A , 1-3-2013, 7-33-01 PM.d	VF-624MS 0.25(mm)
480-30406-3	OC-SD-SD-501-XXX	01/03/2013 20:36	1	480-30406-B-3-A , 1-3-2013, 8-35-59 PM.d	VF-624MS 0.25(mm)
ZZZZZ		01/03/2013 21:39	1		VF-624MS 0.25(mm)
ZZZZZ		01/03/2013 22:41	5		VF-624MS 0.25(mm)
CCB 320-8232/13		01/03/2013 23:44	1	CCB, 1-3-2013, 11-44-43 PM.d	VF-624MS 0.25(mm)

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 480-30406-1

SDG No.:

Instrument ID: IT1 Start Date: 01/07/2013 16:08

Analysis Batch Number: 8340 End Date: 01/08/2013 00:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 320-8340/1		01/07/2013 16:08	1	CS-4...10pg-uL, 1-7-2013, 4-08-34 PM.d	VF-624MS 0.25(mm)
CCB 320-8340/2		01/07/2013 17:09	1	CCB, 1-7-2013, 5-09-03 PM.d	VF-624MS 0.25(mm)
ZZZZZ		01/07/2013 18:09	1		VF-624MS 0.25(mm)
ZZZZZ		01/07/2013 19:10	1		VF-624MS 0.25(mm)
ZZZZZ		01/07/2013 20:10	1		VF-624MS 0.25(mm)
ZZZZZ		01/07/2013 21:10	1		VF-624MS 0.25(mm)
ZZZZZ		01/07/2013 22:11	1		VF-624MS 0.25(mm)
480-30406-4	OC-SD-SD-502-XXX	01/07/2013 23:11	1	480-30406-B-4-A , 1-7-2013, 11-11-57 PM.d	VF-624MS 0.25(mm)
CCB 320-8340/9		01/08/2013 00:12	1	CCB, 1-8-2013, 12-12-29 AM.d	VF-624MS 0.25(mm)

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 480-30406-1

SDG No.:

Batch Number: 7689 Batch Start Date: 12/20/12 13:47 Batch Analyst: Kuzmenko, Natalia

Batch Method: 3550B Batch End Date: 12/26/12 11:53

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MSNDMAIDA 00001	MSNDMAIS 00014	MSNDMASP 00005	
MB 320-7689/1		3550B, GCMSMS_NDMA		10 g	.5 mL	100 uL	200 uL		
LCS 320-7689/2		3550B, GCMSMS_NDMA		10 g	.5 mL	100 uL	200 uL	100 uL	
480-30406-B-1	OC-SD-SD-503-XXX	3550B, GCMSMS_NDMA	T	10.31 g	.5 mL	100 uL	200 uL		
480-30406-B-1 MS	OC-SD-SD-503-XXX	3550B, GCMSMS_NDMA	T	9.67 g	.5 mL	100 uL	200 uL	100 uL	
480-30406-B-1 MSD	OC-SD-SD-503-XXX	3550B, GCMSMS_NDMA	T	10.44 g	.5 mL	100 uL	200 uL	100 uL	
480-30406-B-2	OC-SD-SD-504-XXX	3550B, GCMSMS_NDMA	T	9.73 g	.5 mL	100 uL	200 uL		
480-30406-B-3	OC-SD-SD-501-XXX	3550B, GCMSMS_NDMA	T	10.18 g	.5 mL	100 uL	200 uL		
480-30406-B-4	OC-SD-SD-502-XXX	3550B, GCMSMS_NDMA	T	10.33 g	.5 mL	100 uL	200 uL		

Batch Notes	
Balance ID	qa-63
Person's name who did the concentration	NK 12/26/12
Na2SO4 Lot Number	SS00034
Nominal Amount Used	30 g
Prep Solvent Lot #	0000008602
Prep Solvent Name	DCM
Prep Solvent Volume Used	300 mL
Person's name who did the prep	AH 12/20/12
Person's name who witnessed reagent drop	AVM 12/20/12
Analyst who added reagent	AH 12/20/12
Water Bath Temperature	80 C Celsius

Basis	Basis Description
T	Total/NA

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

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-30406-1

SDG No.:

Project: Olin Chemical Wilmington MA Superfund

Client Sample ID	Lab Sample ID
OC-SD-SD-503-XXX	480-30406-1
OC-SD-SD-504-XXX	480-30406-2
OC-SD-SD-501-XXX	480-30406-3
OC-SD-SD-502-XXX	480-30406-4

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: OC-SD-SD-503-XXX
Lab Sample ID: 480-30406-1
Lab Name: TestAmerica Buffalo
Job No.: 480-30406-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/17/2012 14:30
Reporting Basis: DRY
Date Received: 12/17/2012 18:50
% Solids: 63.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	ND	0.69	0.28	mg/Kg		^	1	6010
7440-38-2	Arsenic	12	1.4	0.55	mg/Kg			1	6010
7440-39-3	Barium	48	0.69	0.15	mg/Kg			1	6010
7440-41-7	Beryllium	0.12	0.28	0.039	mg/Kg	J		1	6010
7440-43-9	Cadmium	0.55	0.28	0.042	mg/Kg			1	6010
7440-47-3	Chromium	50	0.69	0.28	mg/Kg			1	6010
7440-02-0	Nickel	11	1.4	0.32	mg/Kg			1	6010
7440-28-0	Thallium	ND	1.4	0.42	mg/Kg			1	6010
7440-62-2	Vanadium	22	0.69	0.15	mg/Kg			1	6010
7440-66-6	Zinc	55	3.5	0.21	mg/Kg		B	1	6010
7439-92-1	Lead	26	0.69	0.33	mg/Kg			1	6010
7782-49-2	Selenium	ND	0.69	0.55	mg/Kg			1	6010
7440-36-0	Antimony	ND	0.69	0.55	mg/Kg			1	6010
7440-23-5	Sodium	110	190	18	mg/Kg	J		1	6010
7440-09-7	Potassium	1100	42	28	mg/Kg			1	6010
7440-70-2	Calcium	4700	69	4.6	mg/Kg		B	1	6010
7439-89-6	Iron	12000	14	1.5	mg/Kg		B	1	6010
7440-31-5	Tin	2.2	3.1	0.66	mg/Kg	J	^	1	6010
7439-95-4	Magnesium	2300	28	1.3	mg/Kg			1	6010
7440-50-8	Copper	19	1.4	0.29	mg/Kg			1	6010
7429-90-5	Aluminum	9100	14	6.1	mg/Kg			1	6010
7439-96-5	Manganese	400	0.28	0.044	mg/Kg		B	1	6010
7440-48-4	Cobalt	4.8	0.69	0.069	mg/Kg			1	6010
7439-97-6	Mercury	0.075	0.16	0.013	mg/Kg	J		1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: OC-SD-SD-504-XXX
Lab Sample ID: 480-30406-2
Lab Name: TestAmerica Buffalo
Job No.: 480-30406-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/17/2012 15:00
Reporting Basis: DRY
Date Received: 12/17/2012 18:50
% Solids: 56.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	ND	0.79	0.32	mg/Kg		^	1	6010
7440-38-2	Arsenic	9.4	1.6	0.63	mg/Kg			1	6010
7440-39-3	Barium	51	0.79	0.17	mg/Kg			1	6010
7440-41-7	Beryllium	0.089	0.32	0.044	mg/Kg	J		1	6010
7440-43-9	Cadmium	0.56	0.32	0.048	mg/Kg			1	6010
7440-47-3	Chromium	33	0.79	0.32	mg/Kg			1	6010
7440-02-0	Nickel	9.9	1.6	0.36	mg/Kg			1	6010
7440-28-0	Thallium	ND	1.6	0.48	mg/Kg			1	6010
7440-62-2	Vanadium	19	0.79	0.17	mg/Kg			1	6010
7440-66-6	Zinc	73	4.0	0.24	mg/Kg		B	1	6010
7439-92-1	Lead	23	0.79	0.38	mg/Kg			1	6010
7782-49-2	Selenium	ND	0.79	0.63	mg/Kg			1	6010
7440-36-0	Antimony	ND	0.79	0.63	mg/Kg			1	6010
7440-23-5	Sodium	150	220	21	mg/Kg	J		1	6010
7440-09-7	Potassium	740	48	32	mg/Kg			1	6010
7440-70-2	Calcium	4800	79	5.2	mg/Kg		B	1	6010
7439-89-6	Iron	11000	16	1.7	mg/Kg		B	1	6010
7440-31-5	Tin	2.3	3.4	0.73	mg/Kg	J	^	1	6010
7439-95-4	Magnesium	2000	32	1.5	mg/Kg			1	6010
7440-50-8	Copper	25	1.6	0.33	mg/Kg			1	6010
7429-90-5	Aluminum	7800	16	7.0	mg/Kg			1	6010
7439-96-5	Manganese	440	0.32	0.051	mg/Kg		B	1	6010
7440-48-4	Cobalt	4.5	0.79	0.079	mg/Kg			1	6010
7439-97-6	Mercury	0.062	0.17	0.014	mg/Kg	J		1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: OC-SD-SD-501-XXX
Lab Sample ID: 480-30406-3
Lab Name: TestAmerica Buffalo
Job No.: 480-30406-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/17/2012 12:15
Reporting Basis: DRY
Date Received: 12/17/2012 18:50
% Solids: 71.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	ND	0.68	0.27	mg/Kg		^	1	6010
7440-38-2	Arsenic	6.2	1.4	0.55	mg/Kg			1	6010
7440-39-3	Barium	45	0.68	0.15	mg/Kg			1	6010
7440-41-7	Beryllium	0.094	0.27	0.038	mg/Kg	J		1	6010
7440-43-9	Cadmium	0.21	0.27	0.041	mg/Kg	J		1	6010
7440-47-3	Chromium	19	0.68	0.27	mg/Kg			1	6010
7440-02-0	Nickel	8.7	1.4	0.31	mg/Kg			1	6010
7440-28-0	Thallium	ND	1.4	0.41	mg/Kg			1	6010
7440-62-2	Vanadium	17	0.68	0.15	mg/Kg			1	6010
7440-66-6	Zinc	65	3.4	0.21	mg/Kg		B	1	6010
7439-92-1	Lead	51	0.68	0.33	mg/Kg			1	6010
7782-49-2	Selenium	0.70	0.68	0.55	mg/Kg			1	6010
7440-36-0	Antimony	ND	0.68	0.55	mg/Kg			1	6010
7440-23-5	Sodium	140	190	18	mg/Kg	J		1	6010
7440-09-7	Potassium	790	41	27	mg/Kg			1	6010
7440-70-2	Calcium	3900	68	4.5	mg/Kg		B	1	6010
7439-89-6	Iron	9500	14	1.5	mg/Kg		B	1	6010
7440-31-5	Tin	2.1	2.8	0.60	mg/Kg	J	^	1	6010
7439-95-4	Magnesium	2000	27	1.3	mg/Kg			1	6010
7440-50-8	Copper	21	1.4	0.29	mg/Kg			1	6010
7429-90-5	Aluminum	6500	14	6.0	mg/Kg			1	6010
7439-96-5	Manganese	590	0.27	0.044	mg/Kg		B	1	6010
7440-48-4	Cobalt	4.0	0.68	0.068	mg/Kg			1	6010
7439-97-6	Mercury	0.070	0.13	0.011	mg/Kg	J		1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: OC-SD-SD-502-XXX
Lab Sample ID: 480-30406-4
Lab Name: TestAmerica Buffalo
Job No.: 480-30406-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/17/2012 12:45
Reporting Basis: DRY
Date Received: 12/17/2012 18:50
% Solids: 69.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	ND	0.72	0.29	mg/Kg		^	1	6010
7440-38-2	Arsenic	8.1	1.4	0.58	mg/Kg			1	6010
7440-39-3	Barium	46	0.72	0.16	mg/Kg			1	6010
7440-41-7	Beryllium	0.090	0.29	0.041	mg/Kg	J		1	6010
7440-43-9	Cadmium	0.26	0.29	0.043	mg/Kg	J		1	6010
7440-47-3	Chromium	27	0.72	0.29	mg/Kg			1	6010
7440-02-0	Nickel	8.7	1.4	0.33	mg/Kg			1	6010
7440-28-0	Thallium	ND	1.4	0.43	mg/Kg			1	6010
7440-62-2	Vanadium	16	0.72	0.16	mg/Kg			1	6010
7440-66-6	Zinc	65	3.6	0.22	mg/Kg		B	1	6010
7439-92-1	Lead	50	0.72	0.35	mg/Kg			1	6010
7782-49-2	Selenium	ND	0.72	0.58	mg/Kg			1	6010
7440-36-0	Antimony	ND	0.72	0.58	mg/Kg			1	6010
7440-23-5	Sodium	150	200	19	mg/Kg	J		1	6010
7440-09-7	Potassium	730	43	29	mg/Kg			1	6010
7440-70-2	Calcium	3800	72	4.8	mg/Kg		B	1	6010
7439-89-6	Iron	9200	14	1.6	mg/Kg		B	1	6010
7440-31-5	Tin	2.2	2.8	0.61	mg/Kg	J	^	1	6010
7439-95-4	Magnesium	1800	29	1.3	mg/Kg			1	6010
7440-50-8	Copper	21	1.4	0.30	mg/Kg			1	6010
7429-90-5	Aluminum	6500	14	6.4	mg/Kg			1	6010
7439-96-5	Manganese	440	0.29	0.046	mg/Kg		B	1	6010
7440-48-4	Cobalt	3.9	0.72	0.072	mg/Kg			1	6010
7439-97-6	Mercury	0.057	0.15	0.012	mg/Kg	J		1	7471A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

ICV Source: MEI_04_ICV_00152 Concentration Units: mg/L

CCV Source: MEI_09_CCV_00090

Analyte	ICV 480-96762/5 12/19/2012 14:09				CCV 480-96762/12 12/19/2012 20:57				CCV 480-96762/23 12/19/2012 21:25			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	18.0		18.8	96	24.6		25.0	98	24.5		25.0	98
Antimony	0.381		0.375	102	0.505		0.500	101	0.495		0.500	99
Arsenic	0.371		0.375	99	0.503		0.500	101	0.491		0.500	98
Barium	0.383		0.375	102	0.496		0.500	99	0.494		0.500	99
Beryllium	0.367		0.375	98	0.490		0.500	98	0.491		0.500	98
Cadmium	0.374		0.375	100	0.506		0.500	101	0.497		0.500	99
Calcium	18.4		18.8	98	25.1		25.0	100	25.0		25.0	100
Chromium	0.378		0.375	101	0.512		0.500	102	0.512		0.500	102
Cobalt	0.367		0.375	98	0.502		0.500	100	0.494		0.500	99
Copper	0.376		0.375	100	0.508		0.500	102	0.506		0.500	101
Iron	17.9		18.8	95	23.6		25.0	94	23.7		25.0	95
Lead	0.372		0.375	99	0.507		0.500	101	0.502		0.500	100
Magnesium	18.1		18.8	96	24.6		25.0	98	24.7		25.0	99
Manganese	0.377		0.375	100	0.505		0.500	101	0.508		0.500	102
Nickel	0.368		0.375	98	0.498		0.500	100	0.493		0.500	99
Potassium	18.3		18.8	97	25.1		25.0	101	25.1		25.0	100
Selenium	0.372		0.375	99	0.503		0.500	101	0.488		0.500	98
Silver	0.373		0.375	99	0.509		0.500	102	0.509		0.500	102
Sodium	18.2		18.8	97	25.3		25.0	101	25.0		25.0	100
Thallium	0.371		0.375	99	0.503		0.500	101	0.499		0.500	100
Vanadium	0.374		0.375	100	0.519		0.500	104	0.515		0.500	103
Zinc	0.380		0.375	101	0.535		0.500	107	0.530		0.500	106

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

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

ICV Source: MEI_04_ICV_00152 Concentration Units: mg/L

CCV Source: MEI_09_CCV_00090

Analyte	CCV 480-96762/35 12/19/2012 21:52				CCV 480-96762/38 12/19/2012 22:19							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	23.2		25.0	93	24.9		25.0	100				
Antimony	0.510		0.500	102	0.509		0.500	102				
Arsenic	0.521		0.500	104	0.508		0.500	102				
Barium	0.458		0.500	92	0.504		0.500	101				
Beryllium	0.470		0.500	94	0.499		0.500	100				
Cadmium	0.520		0.500	104	0.511		0.500	102				
Calcium	23.9		25.0	96	25.4		25.0	102				
Chromium	0.521		0.500	104	0.516		0.500	103				
Cobalt	0.517		0.500	103	0.506		0.500	101				
Copper	0.507		0.500	101	0.513		0.500	103				
Iron	22.7		25.0	91	24.0		25.0	96				
Lead	0.534		0.500	107	0.514		0.500	103				
Magnesium	24.0		25.0	96	24.6		25.0	98				
Manganese	0.484		0.500	97	0.507		0.500	101				
Nickel	0.513		0.500	103	0.503		0.500	101				
Potassium	24.3		25.0	97	25.6		25.0	102				
Selenium	0.519		0.500	104	0.511		0.500	102				
Silver	0.497		0.500	99	0.511		0.500	102				
Sodium	24.7		25.0	99	25.8		25.0	103				
Thallium	0.526		0.500	105	0.511		0.500	102				
Vanadium	0.532		0.500	106	0.525		0.500	105				
Zinc					0.535		0.500	107				

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 Buffalo Job No.: 480-30406-1

SDG No.:

ICV Source: MEI_04_ICV_00166 Concentration Units: mg/L

CCV Source: MEI_09_CCV_00097

Analyte	ICV 480-104944/5 02/26/2013 11:09				CCV 480-104944/12 02/26/2013 11:33				CCV 480-104944/21 02/26/2013 12:00			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Tin	0.382		0.375	102	0.528		0.500	106	0.531		0.500	106

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

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

ICV Source: MEI_04_ICV_00152 Concentration Units: mg/L

CCV Source: MEI_09_CCV_00090

Analyte	ICV 480-96876/5 12/20/2012 11:52				CCV 480-96876/12 12/20/2012 12:14				CCV 480-96876/23 12/20/2012 12:41			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Zinc	0.368		0.375	98	0.533		0.500	107	0.509		0.500	102

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

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

ICV Source: MEI_04_ICV_00152 Concentration Units: mg/L

CCV Source: MEI_09_CCV_00090

Analyte	CCV 480-96876/28 12/20/2012 13:09											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Zinc	0.504		0.500	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 Buffalo Job No.: 480-30406-1

SDG No.:

ICV Source: MEH_HG2_WKG_00256 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00256

Analyte	ICV 480-96597/1 12/19/2012 12:11				CCV 480-96597/4 12/19/2012 12:17				CCV 480-96597/16 12/19/2012 12:39			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00294		0.00300	98	0.00191		0.00200	96	0.00191		0.00200	96

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

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

ICV Source: MEH_HG2_WKG_00256 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00256

Analyte	CCV 480-96597/28 12/19/2012 13:00											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00190		0.00200	95								

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 Buffalo Job No.: 480-30406-1

SDG No.:

Method: 6010 Instrument ID: ICAP1

Lab Sample ID: CRI 480-96762/7 Concentration Units: mg/L

CRQL Check Standard Source: MEI_06_CRI_00045

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Silver	0.00300	0.00244	J	81	70-130
Arsenic	0.0100	0.00952	J	95	70-130
Barium	0.00200	0.00215	J	108	70-130
Beryllium	0.00200	0.00207		104	70-130
Cadmium	0.00100	0.00110		110	70-130
Chromium	0.00400	0.00387	J	97	70-130
Nickel	0.0100	0.00933	J	93	70-130
Thallium	0.0200	0.0171		85	70-130
Vanadium	0.00500	0.00457	J	91	70-130
Zinc	0.0100	0.0114	J	114	70-130
Lead	0.00500	0.00442	J	88	70-130
Selenium	0.0150	0.0148		99	70-130
Antimony	0.0200	0.0222		111	70-130
Sodium	1.00	0.977	J	98	70-130
Potassium	0.500	0.507		101	70-130
Calcium	0.500	0.553		111	70-130
Iron	0.0500	0.0511		102	70-130
Magnesium	0.200	0.206		103	70-130
Copper	0.0100	0.0106		106	70-130
Aluminum	0.200	0.213		106	70-130
Manganese	0.00300	0.00297	J	99	70-130
Cobalt	0.00400	0.00397	J	99	70-130

Lab Sample ID: CRI 480-96762/42 Concentration Units: mg/L

CRQL Check Standard Source: MEI_06_CRI_00045

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Silver	0.00300	ND	^	52	70-130
Arsenic	0.0100	0.0113		113	70-130
Barium	0.00200	0.00218	J	109	70-130
Beryllium	0.00200	0.00201		101	70-130
Cadmium	0.00100	0.00110		110	70-130
Chromium	0.00400	0.00417	J	104	70-130
Nickel	0.0100	0.00919	J	92	70-130
Thallium	0.0200	0.0181		90	70-130

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

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Method: 6010 Instrument ID: ICAP1

Lab Sample ID: CRI 480-96762/42 Concentration Units: mg/L

CRQL Check Standard Source: MEI_06_CRI_00045

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Vanadium	0.00500	0.00551	J	110	70-130
Zinc	0.0100	0.0125	J	125	70-130
Lead	0.00500	0.00565		113	70-130
Selenium	0.0150	0.0137		91	70-130
Antimony	0.0200	0.0203		101	70-130
Sodium	1.00	0.994	J	99	70-130
Potassium	0.500	0.506		101	70-130
Calcium	0.500	0.559		112	70-130
Iron	0.0500	0.0496	J	99	70-130
Magnesium	0.200	0.206		103	70-130
Copper	0.0100	0.0118		118	70-130
Aluminum	0.200	0.204		102	70-130
Manganese	0.00300	0.00306		102	70-130
Cobalt	0.00400	0.00402		101	70-130

Lab Sample ID: CRI 480-104944/7 Concentration Units: mg/L

CRQL Check Standard Source: MEI_06_CRI_00051

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Tin	0.0100	0.00582	J ^	58	70-130

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

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Method: 6010 Instrument ID: ICAP2

Lab Sample ID: CRI 480-96876/7 Concentration Units: mg/L

CRQL Check Standard Source: MEI_06_CRI_00045

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Zinc	0.0100	0.0108	J	108	70-130

Lab Sample ID: CRI 480-96876/30 Concentration Units: mg/L

CRQL Check Standard Source: MEI_06_CRI_00045

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Zinc	0.0100	0.0111	J	111	70-130

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

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Method: 7471A Instrument ID: LEEMAN3

Lab Sample ID: CRA 480-96597/3 Concentration Units: mg/L

CRQL Check Standard Source: MEH_HG2_WKG_00256

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.000200	0.000176	J	88	70-130

Lab Sample ID: CRA 480-96597/27 Concentration Units: mg/L

CRQL Check Standard Source: MEH_HG2_WKG_00256

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.000200	0.000174	J	87	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 Buffalo Job No.: 480-30406-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-96762/6 12/19/2012 14:11		CCB 480-96762/13 12/19/2012 20:59		CCB 480-96762/24 12/19/2012 21:27		CCB 480-96762/36 12/19/2012 21:54	
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.20	ND		ND		ND		ND	
Antimony	0.0060	ND		ND		ND		ND	
Arsenic	0.010	ND		ND		ND		ND	
Barium	0.010	ND		ND		ND		ND	
Beryllium	0.0010	ND		ND		ND		ND	
Cadmium	0.0010	ND		ND		ND		ND	
Calcium	0.50	ND		ND		ND		ND	
Chromium	0.0050	ND		ND		ND		ND	
Cobalt	0.0040	ND		ND		ND		ND	
Copper	0.010	ND		ND		ND		0.00216	J
Iron	0.050	ND		ND		ND		ND	
Lead	0.0050	ND		ND		ND		ND	
Magnesium	0.20	ND		ND		ND		ND	
Manganese	0.0030	ND		ND		ND		ND	
Nickel	0.010	ND		ND		ND		ND	
Potassium	0.50	ND		ND		ND		ND	
Selenium	0.010	ND		ND		ND		ND	
Silver	0.0050	ND		ND		ND		ND	
Sodium	1.0	ND		ND		ND		ND	
Thallium	0.010	ND		ND		ND		ND	
Vanadium	0.010	ND		ND		ND		ND	
Zinc	0.050	ND		ND		ND			

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 480-96762/39 12/19/2012 22:21							
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.20	ND							
Antimony	0.0060	ND							
Arsenic	0.010	ND							
Barium	0.010	ND							
Beryllium	0.0010	ND							
Cadmium	0.0010	ND							
Calcium	0.50	ND							
Chromium	0.0050	ND							
Cobalt	0.0040	ND							
Copper	0.010	ND							
Iron	0.050	ND							
Lead	0.0050	ND							
Magnesium	0.20	ND							
Manganese	0.0030	ND							
Nickel	0.010	ND							
Potassium	0.50	ND							
Selenium	0.010	ND							
Silver	0.0050	ND							
Sodium	1.0	ND							
Thallium	0.010	ND							
Vanadium	0.010	ND							
Zinc	0.050	ND							

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-104944/6 02/26/2013 11:11		CCB 480-104944/13 02/26/2013 11:35		CCB 480-104944/22 02/26/2013 12:03			
		Found	C	Found	C	Found	C	Found	C
Tin	0.010	ND		ND		ND			

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-96876/6 12/20/2012 11:54		CCB 480-96876/13 12/20/2012 12:17		CCB 480-96876/24 12/20/2012 12:44		CCB 480-96876/29 12/20/2012 13:11	
		Found	C	Found	C	Found	C	Found	C
Zinc	0.050	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-96597/2 12/19/2012 12:14		CCB 480-96597/5 12/19/2012 12:19		CCB 480-96597/17 12/19/2012 12:41		CCB 480-96597/29 12/19/2012 13:03	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 480-96586/1-A

Instrument Code: ICAP1 Batch No.: 96762

CAS No.	Analyte	Concentration	C	Q	Method
7440-22-4	Silver	ND		^	6010MCP
7440-38-2	Arsenic	ND			6010MCP
7440-39-3	Barium	ND			6010MCP
7440-41-7	Beryllium	ND			6010MCP
7440-43-9	Cadmium	ND			6010MCP
7440-47-3	Chromium	ND			6010MCP
7440-02-0	Nickel	ND			6010MCP
7440-28-0	Thallium	ND			6010MCP
7440-62-2	Vanadium	ND			6010MCP
7440-66-6	Zinc	0.299	J		6010MCP
7439-92-1	Lead	ND			6010MCP
7782-49-2	Selenium	ND			6010MCP
7440-36-0	Antimony	ND			6010MCP
7440-23-5	Sodium	ND			6010MCP
7440-09-7	Potassium	ND			6010MCP
7440-70-2	Calcium	8.95	J		6010MCP
7439-89-6	Iron	3.90	J		6010MCP
7439-95-4	Magnesium	ND			6010MCP
7440-50-8	Copper	ND			6010MCP
7429-90-5	Aluminum	ND			6010MCP
7439-96-5	Manganese	0.0833	J		6010MCP
7440-48-4	Cobalt	ND			6010MCP

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 480-104616/1-A

Instrument Code: ICAP1 Batch No.: 104944

CAS No.	Analyte	Concentration	C	Q	Method
7440-31-5	Tin	ND		^	6010MCP

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 480-96554/1-A

Instrument Code: LEEMAN3 Batch No.: 96597

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7471MCP

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Lab Sample ID: ICSA 480-96762/8 Instrument ID: ICAP1

Lab File ID: I1121912A-10.asc ICS Source: MEI_07_ICSA_00040

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**500**	**480**	**96**
Antimony		**-0.0025**	
Arsenic		**0.0065**	
Barium		**0.0004**	
Beryllium		**-0.0001**	
Cadmium		**-0.0008**	
Calcium	**500**	**459**	**92**
Chromium		**0.0020**	
Cobalt		**-0.0005**	
Copper		**0.0031**	
Iron	**200**	**181**	**91**
Lead		**-0.0024**	
Magnesium	**500**	**497**	**99**
Manganese		**0.0014**	
Nickel		**0.0009**	
Potassium		**0.0044**	
Selenium		**0.0032**	
Silver		**-0.0010**	
Sodium		**-0.0018**	
Thallium		**-0.0020**	
Vanadium		**0.0008**	
Zinc		**0.0012**	
Boron		*0.0003*	
Lithium		*0.0055*	
Molybdenum		*-0.0003*	
Silicon		*-0.0066*	
Strontium		*0.0055*	
Tin		*0.0003*	
Titanium		*0.0045*	

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 Buffalo Job No.: 480-30406-1

SDG No.:

Lab Sample ID: ICSAB 480-96762/9 Instrument ID: ICAP1

Lab File ID: I1121912A-10.asc ICS Source: MEI_08_ICSAB_00054

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**500**	**503**	**101**
Antimony	**0.600**	**0.618**	**103**
Arsenic	**0.100**	**0.107**	**107**
Barium	**0.500**	**0.504**	**101**
Beryllium	**0.500**	**0.501**	**100**
Cadmium	**1.00**	**1.03**	**103**
Calcium	**500**	**466**	**93**
Chromium	**0.500**	**0.519**	**104**
Cobalt	**0.500**	**0.503**	**101**
Copper	**0.500**	**0.557**	**111**
Iron	**100**	**92.6**	**93**
Lead	**0.0500**	**0.0516**	**103**
Magnesium	**500**	**538**	**108**
Manganese	**0.500**	**0.496**	**99**
Nickel	**1.00**	**1.00**	**100**
Potassium		**0.0531**	
Selenium	**0.0500**	**0.0535**	**107**
Silver	**0.200**	**0.226**	**113**
Sodium		**0.0364**	
Thallium	**0.100**	**0.0977**	**98**
Vanadium	**0.500**	**0.517**	**103**
Zinc	**1.00**	**1.03**	**103**
Boron		*0.0025*	
Lithium	*0.500*	*0.527*	*105*
Molybdenum		*0.0004*	
Silicon	*1.00*	*1.05*	*105*
Strontium	*0.500*	*0.505*	*101*
Tin		*-0.0005*	
Titanium		*0.0050*	

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 Buffalo Job No.: 480-30406-1

SDG No.:

Lab Sample ID: ICSA 480-96762/43 Instrument ID: ICAP1

Lab File ID: I1121912A-10.asc ICS Source: MEI_07_ICSA_00040

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**500**	**479**	**96**
Antimony		**-0.0017**	
Arsenic		**0.0033**	
Barium		**0.0004**	
Beryllium		**-0.0001**	
Cadmium		**-0.0010**	
Calcium	**500**	**464**	**93**
Chromium		**0.0016**	
Cobalt		**-0.0007**	
Copper		**0.0038**	
Iron	**200**	**176**	**88**
Lead		**-0.0039**	
Magnesium	**500**	**509**	**102**
Manganese		**0.0013**	
Nickel		**0.0008**	
Potassium		**-0.0117**	
Selenium		**-0.0002**	
Silver		**-0.0028**	
Sodium		**-0.0038**	
Thallium		**-0.0007**	
Vanadium		**0.0009**	
Zinc		**0.0015**	
Boron		*-0.0009*	
Lithium		*0.0039*	
Molybdenum		*-0.0010*	
Silicon		*-0.0105*	
Strontium		*0.0054*	
Tin		*-0.0002*	
Titanium		*0.0049*	

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 Buffalo Job No.: 480-30406-1

SDG No.:

Lab Sample ID: ICSAB 480-96762/44 Instrument ID: ICAP1

Lab File ID: I1121912A-10.asc ICS Source: MEI_08_ICSAB_00054

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**500**	**492**	**98**
Antimony	**0.600**	**0.604**	**101**
Arsenic	**0.100**	**0.105**	**105**
Barium	**0.500**	**0.486**	**97**
Beryllium	**0.500**	**0.487**	**97**
Cadmium	**1.00**	**1.04**	**104**
Calcium	**500**	**463**	**93**
Chromium	**0.500**	**0.504**	**101**
Cobalt	**0.500**	**0.509**	**102**
Copper	**0.500**	**0.538**	**108**
Iron	**100**	**88.0**	**88**
Lead	**0.0500**	**0.0520**	**104**
Magnesium	**500**	**520**	**104**
Manganese	**0.500**	**0.469**	**94**
Nickel	**1.00**	**1.00**	**100**
Potassium		**0.0154**	
Selenium	**0.0500**	**0.0505**	**101**
Silver	**0.200**	**0.216**	**108**
Sodium		**0.0362**	
Thallium	**0.100**	**0.0972**	**97**
Vanadium	**0.500**	**0.511**	**102**
Zinc	**1.00**	**1.05**	**105**
Boron		*0.0014*	
Lithium	*0.500*	*0.513*	*103*
Molybdenum		*-0.0004*	
Silicon	*1.00*	*1.01*	*101*
Strontium	*0.500*	*0.500*	*100*
Tin		*0.0004*	
Titanium		*0.0048*	

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 Buffalo Job No.: 480-30406-1

SDG No.:

Lab Sample ID: ICSA 480-104944/8 Instrument ID: ICAP1

Lab File ID: I1022613A-1.asc ICS Source: MEI_07_ICSA_00044

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Tin		**0.0011**	
Aluminum	*501*	*516*	*103*
Antimony		*-0.0049*	
Arsenic		*0.0038*	
Barium		*0.0019*	
Beryllium		*-0.0002*	
Boron		*-0.0007*	
Cadmium		*0.0012*	
Calcium	*500*	*474*	*95*
Chromium		*0.0007*	
Cobalt		*-0.0011*	
Copper		*0.0020*	
Iron	*200*	*195*	*97*
Lead		*-0.0008*	
Lithium		*0.0047*	
Magnesium	*500*	*518*	*104*
Manganese		*0.0014*	
Molybdenum		*-0.0009*	
Nickel		*0.0007*	
Potassium		*0.0359*	
Selenium		*0.0067*	
Silicon		*0.0030*	
Silver		*0.0005*	
Sodium		*0.0749*	
Strontium		*0.0048*	
Thallium		*-0.0028*	
Titanium		*0.0042*	
Vanadium		*0.0026*	
Zinc		*0.0020*	

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 Buffalo Job No.: 480-30406-1

SDG No.:

Lab Sample ID: ICSAB 480-104944/9 Instrument ID: ICAP1

Lab File ID: I1022613A-1.asc ICS Source: MEI_08_ICSAB_00058

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Tin		**0.0001**	
Aluminum	*500*	*515*	*103*
Antimony	*0.600*	*0.624*	*104*
Arsenic	*0.100*	*0.106*	*106*
Barium	*0.500*	*0.508*	*102*
Beryllium	*0.500*	*0.511*	*102*
Boron		*0.0023*	
Cadmium	*1.00*	*1.05*	*105*
Calcium	*500*	*477*	*95*
Chromium	*0.500*	*0.495*	*99*
Cobalt	*0.500*	*0.518*	*104*
Copper	*0.0500*	*0.0561*	*112*
Iron	*100*	*95.0*	*95*
Lead	*0.0500*	*0.0513*	*103*
Lithium	*0.500*	*0.535*	*107*
Magnesium	*500*	*516*	*103*
Manganese	*0.500*	*0.498*	*100*
Molybdenum		*-0.0006*	
Nickel	*1.00*	*1.01*	*101*
Potassium		*0.0757*	
Selenium	*0.0500*	*0.0563*	*113*
Silicon	*1.00*	*1.04*	*104*
Silver	*0.200*	*0.227*	*114*
Sodium		*0.0838*	
Strontium	*0.500*	*0.504*	*101*
Thallium	*0.100*	*0.100*	*100*
Titanium		*0.0043*	
Vanadium	*0.500*	*0.500*	*100*
Zinc	*1.00*	*0.972*	*97*

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 Buffalo Job No.: 480-30406-1

SDG No.:

Lab Sample ID: ICSA 480-96876/8 Instrument ID: ICAP2

Lab File ID: I2122012A-3.asc ICS Source: MEI_07_ICSA_00040

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Zinc		**-0.0001**	
Aluminum	*500*	*484*	*97*
Antimony		*-0.0009*	
Arsenic		*-0.0039*	
Barium		*-0.0001*	
Beryllium		*-0.0005*	
Boron		*-0.0062*	
Cadmium		*0.0015*	
Calcium	*500*	*465*	*93*
Chromium		*-0.0006*	
Cobalt		*-0.0001*	
Copper		*0.0017*	
Iron	*200*	*181*	*91*
Lead		*-0.0039*	
Lithium		*0.0061*	
Magnesium	*500*	*498*	*100*
Manganese		*0.0007*	
Molybdenum		*-0.0036*	
Nickel		*0.0001*	
Potassium		*-0.0793*	
Selenium		*-0.0001*	
Silicon		*-0.0245*	
Silver		*-0.0007*	
Sodium		*-0.0260*	
Strontium		*0.0050*	
Thallium		*-0.0071*	
Tin		*0.0013*	
Titanium		*0.0031*	
Vanadium		*0.0007*	

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 Buffalo Job No.: 480-30406-1

SDG No.:

Lab Sample ID: ICSAB 480-96876/9 Instrument ID: ICAP2

Lab File ID: I2122012A-3.asc ICS Source: MEI_08_ICSAB_00054

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Zinc	**1.00**	**0.953**	**95**
Aluminum	*500*	*497*	*99*
Antimony	*0.600*	*0.608*	*101*
Arsenic	*0.100*	*0.104*	*104*
Barium	*0.500*	*0.498*	*100*
Beryllium	*0.500*	*0.492*	*98*
Boron		*-0.0028*	
Cadmium	*1.00*	*1.01*	*101*
Calcium	*500*	*464*	*93*
Chromium	*0.500*	*0.476*	*95*
Cobalt	*0.500*	*0.497*	*99*
Copper	*0.500*	*0.528*	*106*
Iron	*100*	*90.6*	*91*
Lead	*0.0500*	*0.0500*	*100*
Lithium	*0.500*	*0.521*	*104*
Magnesium	*500*	*510*	*102*
Manganese	*0.500*	*0.465*	*93*
Molybdenum		*-0.0022*	
Nickel	*1.00*	*0.987*	*99*
Potassium		*-0.0319*	
Selenium	*0.0500*	*0.0564*	*113*
Silicon	*1.00*	*0.997*	*100*
Silver	*0.200*	*0.212*	*106*
Sodium		*0.0376*	
Strontium	*0.500*	*0.489*	*98*
Thallium	*0.100*	*0.0884*	*88*
Tin		*0.0018*	
Titanium		*0.0025*	
Vanadium	*0.500*	*0.485*	*97*

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 Buffalo Job No.: 480-30406-1

SDG No.:

Lab Sample ID: ICSA 480-96876/31 Instrument ID: ICAP2

Lab File ID: I2122012A-3.asc ICS Source: MEI_07_ICSA_00040

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Zinc		**-0.0009**	
Aluminum	*500*	*482*	*96*
Antimony		*0.0006*	
Arsenic		*-0.0026*	
Barium		*-0.0004*	
Beryllium		*-0.0007*	
Boron		*-0.0081*	
Cadmium		*0.0014*	
Calcium	*500*	*475*	*95*
Chromium		*-0.0002*	
Cobalt		*-0.0001*	
Copper		*0.0015*	
Iron	*200*	*184*	*92*
Lead		*0.0024*	
Lithium		*0.0046*	
Magnesium	*500*	*503*	*101*
Manganese		*0.0006*	
Molybdenum		*-0.0040*	
Nickel		*-0.0005*	
Potassium		*-0.0722*	
Selenium		*-0.0040*	
Silicon		*-0.0381*	
Silver		*-0.0014*	
Sodium		*-0.0463*	
Strontium		*0.0047*	
Thallium		*-0.0029*	
Tin		*0.0011*	
Titanium		*0.0035*	
Vanadium		*-0.0001*	

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 Buffalo Job No.: 480-30406-1

SDG No.:

Lab Sample ID: ICSAB 480-96876/32 Instrument ID: ICAP2

Lab File ID: I2122012A-3.asc ICS Source: MEI_08_ICSAB_00054

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Zinc	**1.00**	**0.981**	**98**
Aluminum	*500*	*491*	*98*
Antimony	*0.600*	*0.617*	*103*
Arsenic	*0.100*	*0.0955*	*95*
Barium	*0.500*	*0.494*	*99*
Beryllium	*0.500*	*0.495*	*99*
Boron		*-0.0042*	
Cadmium	*1.00*	*1.02*	*102*
Calcium	*500*	*470*	*94*
Chromium	*0.500*	*0.464*	*93*
Cobalt	*0.500*	*0.496*	*99*
Copper	*0.500*	*0.522*	*104*
Iron	*100*	*91.5*	*92*
Lead	*0.0500*	*0.0517*	*103*
Lithium	*0.500*	*0.515*	*103*
Magnesium	*500*	*512*	*102*
Manganese	*0.500*	*0.478*	*96*
Molybdenum		*-0.0024*	
Nickel	*1.00*	*0.994*	*99*
Potassium		*-0.0550*	
Selenium	*0.0500*	*0.0435*	*87*
Silicon	*1.00*	*1.02*	*102*
Silver	*0.200*	*0.223*	*111*
Sodium		*0.0395*	
Strontium	*0.500*	*0.486*	*97*
Thallium	*0.100*	*0.0875*	*88*
Tin		*0.0004*	
Titanium		*0.0027*	
Vanadium	*0.500*	*0.496*	*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: OC-SD-SD-503-XXX MS
Lab ID: 480-30406-1 MS
Lab Name: TestAmerica Buffalo
Job No.: 480-30406-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 63.9

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	0.563		0.075	J	0.520	94	75-125		7471A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: OC-SD-SD-502-XXX MS
Lab ID: 480-30406-4 MS
Lab Name: TestAmerica Buffalo
Job No.: 480-30406-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 69.4

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Silver	14.5		ND		14.8	98	75-125	^	6010
Arsenic	69.1		8.1		59.1	103	75-125		6010
Barium	98.7		46		59.1	89	75-125		6010
Beryllium	57.1		0.090	J	59.1	96	75-125		6010
Cadmium	61.0		0.26	J	59.1	103	75-125		6010
Chromium	87.0		27		59.1	101	75-125		6010
Nickel	72.6		8.7		59.1	108	75-125		6010
Thallium	62.2		ND		59.1	105	75-125		6010
Vanadium	82.1		16		59.1	112	75-125		6010
Zinc	125		65		59.1	100	75-125		6010
Lead	107		50		59.1	98	75-125		6010
Selenium	44.4		ND		59.1	75	75-125		6010
Antimony	53.6		ND		59.1	91	75-125		6010
Sodium	3160		150	J	2960	102	75-125		6010
Potassium	3790		730		2960	103	75-125		6010
Calcium	6940		3800		2960	105	75-125		6010
Iron	12200		9200		2960	103	75-125		6010
Magnesium	4900		1800		2960	104	75-125		6010
Copper	82.8		21		59.1	105	75-125		6010
Aluminum	10600		6500		2960	140	75-125	F	6010
Manganese	515		440		59.1	128	75-125	4	6010
Cobalt	68.6		3.9		59.1	109	75-125		6010

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: OC-SD-SD-503-XXX MSD
Lab ID: 480-30406-1 MSD
Lab Name: TestAmerica Buffalo
Job No.: 480-30406-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 63.9

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	0.513		0.485	90	75-125	9	35		7471A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: OC-SD-SD-502-XXX MSD
Lab ID: 480-30406-4 MSD
Lab Name: TestAmerica Buffalo
Job No.: 480-30406-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 69.4

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Silver	13.2		13.6	96	75-125	9	35	^	6010
Arsenic	60.0		54.6	95	75-125	14	35		6010
Barium	92.6		54.6	85	75-125	6	35		6010
Beryllium	51.2		54.6	94	75-125	11	35		6010
Cadmium	53.5		54.6	98	75-125	13	35		6010
Chromium	76.6		54.6	91	75-125	13	35		6010
Nickel	63.2		54.6	100	75-125	14	35		6010
Thallium	54.1		54.6	99	75-125	14	35		6010
Vanadium	73.5		54.6	106	75-125	11	35		6010
Zinc	112		54.6	85	75-125	11	35		6010
Lead	92.8		54.6	79	75-125	15	35		6010
Selenium	39.8		54.6	73	75-125	11	35	F	6010
Antimony	47.0		54.6	86	75-125	13	35		6010
Sodium	2810		2740	98	75-125	11	35		6010
Potassium	3370		2730	97	75-125	12	35		6010
Calcium	6550		2730	99	75-125	6	35		6010
Iron	11200		2730	71	75-125	9	35	F	6010
Magnesium	4350		2730	92	75-125	12	35		6010
Copper	73.9		54.6	98	75-125	11	35		6010
Aluminum	9580		2730	114	75-125	10	35		6010
Manganese	504		54.6	118	75-125	2	35	4	6010
Cobalt	59.8		54.6	102	75-125	14	35		6010

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: OC-SD-SD-502-XXX PDS Lab ID: 480-30406-4 PDS

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Silver	14.0		ND		14.5	97	75-125	^	6010
Arsenic	67.1		8.1		57.9	102	75-125		6010
Barium	95.3		46		57.9	85	75-125		6010
Beryllium	56.9		0.090	J	57.9	98	75-125		6010
Cadmium	59.0		0.26	J	57.9	102	75-125		6010
Chromium	85.2		27		57.9	101	75-125		6010
Nickel	69.1		8.7		57.9	104	75-125		6010
Thallium	60.6		ND		57.9	105	75-125		6010
Vanadium	76.6		16		57.9	105	75-125		6010
Zinc	125		65		57.9	102	75-125		6010
Lead	110		50		57.9	104	75-125		6010
Selenium	58.3		ND		57.9	101	75-125		6010
Antimony	57.5		ND		57.9	99	75-125		6010
Sodium	3030		150	J	2900	100	75-125		6010
Potassium	3540		730		2900	97	75-125		6010
Calcium	6440		3800		2890	90	75-125		6010
Iron	11300		9200		2890	72	75-125	W	6010
Magnesium	4500		1800		2890	92	75-125		6010
Copper	78.3		21		57.9	100	75-125		6010
Aluminum	8890		6500		2900	84	75-125		6010
Manganese	469		440		57.9	52	75-125	W	6010
Cobalt	66.0		3.9		57.9	107	75-125		6010

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
LCS-CERTIFIED REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 480-96586/2-A

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

Sample Matrix: Solid LCS Source: MED_SRM_D078_00003

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Silver	33.9	29.8		87.7	66.4	133.9	^	6010
Arsenic	94.6	85.9		90.8	82.2	117.5		6010
Barium	166	141		84.8	83.1	116.3		6010
Beryllium	52.7	48.4		91.9	83.8	116.2		6010
Cadmium	60.0	57.1		95.3	84.0	115.9		6010
Chromium	69.4	62.3		89.8	81.4	118.6		6010
Nickel	56.7	55.2		97.4	82.2	117.8		6010
Thallium	119	113		95.1	81.1	119.3		6010
Vanadium	56.4	49.9		88.5	72.8	127.2		6010
Zinc	137	129		94.3	81.0	119.0		6010
Lead	91.8	88.0		95.9	82.4	117.8		6010
Selenium	159	147		92.6	79.2	120.8		6010
Antimony	93.0	74.3		79.9	8.2	191.6		6010
Sodium	653	594		91.0	73.6	126.2		6010
Potassium	3820	3330		87.1	73.6	126.4		6010
Calcium	6170	5490		89.0	82.3	117.5		6010
Iron	12800	8970		70.0	50.6	149.2		6010
Magnesium	3030	2560		84.3	76.2	123.8		6010
Copper	78.1	73.8		94.6	83.7	116.2		6010
Aluminum	8370	6190		74.0	40.4	159.1		6010
Manganese	283	249		87.8	81.6	118.0		6010
Cobalt	101	98.5		97.4	83.8	115.8		6010

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

FORM VIIA - IN

7D-IN
LCSD - CERTIFIED REFERENCE MATERIAL
METALS

Lab ID: LCDSRM 480-96586/3-A

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

Sample Matrix: Solid LCS Source: MED_SRM_D078_00003

Analyte	(SDR)	C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Silver	33.6		33.9	99.0	66.4-13	12	20	^	6010
Arsenic	93.7		94.5	99.1	82.2-11	9	20		6010
Barium	157		166	94.6	83.1-11	11	20		6010
Beryllium	52.4		52.6	99.7	83.8-11	8	20		6010
Cadmium	60.4		59.9	100.9	84.0-11	6	20		6010
Chromium	66.5		69.3	96.0	81.4-11	6	20		6010
Nickel	59.1		56.6	104.5	82.2-11	7	20		6010
Thallium	123		119	103.3	81.1-11	8	20		6010
Vanadium	53.8		56.3	95.5	72.8-12	7	20		6010
Zinc	140		137	102.1	81.0-11	8	20		6010
Lead	93.6		91.7	102.1	82.4-11	6	20		6010
Selenium	158		159	99.6	79.2-12	7	20		6010
Antimony	74.7		92.9	80.5	8.2-191	1	20		6010
Sodium	642		652	98.5	73.6-12	8	20		6010
Potassium	3610		3820	94.5	73.6-12	8	20		6010
Calcium	6020		6160	97.8	82.3-11	9	20		6010
Iron	10000		12800	78.1	50.6-14	11	20		6010
Magnesium	2760		3030	91.1	76.2-12	8	20		6010
Copper	79.0		78.0	101.3	83.7-11	7	20		6010
Aluminum	6780		8360	81.2	40.4-15	9	20		6010
Manganese	264		283	93.3	81.6-11	6	20		6010
Cobalt	107		101	105.6	83.8-11	8	20		6010

SDR = Spike Duplicate Results
Calculations are performed before rounding to avoid round-off errors in calculated results.

7A-IN
LCS-CERTIFIED REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 480-104616/2-A

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

Sample Matrix: Solid LCS Source: MED_SRM_D079_00001

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Tin	157	155		99.0	60.0	139.5	^	6010

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

FORM VIIA - IN

7D-IN
LCSD - CERTIFIED REFERENCE MATERIAL
METALS

Lab ID: LCDSRM 480-104616/3-A

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

Sample Matrix: Solid LCS Source: MED_SRM_D079_00001

Analyte	(SDR)	C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Tin	163		157	103.6	60.0-13	5	20	^	6010

SDR = Spike Duplicate Results
Calculations are performed before rounding to avoid round-off errors in calculated results.

7A-IN
LCS-CERTIFIED REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 480-96554/2-A

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

Sample Matrix: Solid LCS Source: MEH_SRM_D071_00003

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	3.77	3.17		84.2	50.9	149.1		7471A

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

FORM VIIA - IN

7D-IN
LCSD - CERTIFIED REFERENCE MATERIAL
METALS

Lab ID: LCDSRM 480-96554/3-A

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

Sample Matrix: Solid LCS Source: MEH_SRM_D071_00003

Analyte	(SDR)	C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	3.17		3.77	84.2	50.9-14	0			7471A

SDR = Spike Duplicate Results
Calculations are performed before rounding to avoid round-off errors in calculated results.

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 480-30406-4

SDG No:

Lab Name: TestAmerica Buffalo Job No: 480-30406-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Silver	ND		ND		NC	^	6010
Arsenic	8.1		7.57		NC		6010
Barium	46		48.5		4.9		6010
Beryllium	0.090	J	ND		NC		6010
Cadmium	0.26	J	0.297	J	NC		6010
Chromium	27		28.6		6.0		6010
Nickel	8.7		9.28		NC		6010
Thallium	ND		ND		NC		6010
Vanadium	16		16.6		5.6		6010
Zinc	65		68.1		4.1		6010
Lead	50		52.9		6.5		6010
Selenium	ND		ND		NC		6010
Antimony	ND		ND		NC		6010
Sodium	150	J	126	J	NC		6010
Potassium	730		748		NC		6010
Calcium	3800		4050		5.3		6010
Iron	9200		9770		6.2		6010
Magnesium	1800		1980		8.4		6010
Copper	21		22.3		8.1		6010
Aluminum	6500		6740		4.3		6010
Manganese	440		469		6.6		6010
Cobalt	3.9		3.99		2.0		6010

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

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 480-30406-1

SDG No:

Lab Name: TestAmerica Buffalo Job No: 480-30406-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Mercury	0.075	J	0.0646	J	NC		7471A

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

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-30406-1

SDG Number:

Matrix: Solid Instrument ID: ICAP1

Method: 6010 MDL Date: 09/25/2012 16:35

Prep Method: 3050B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Aluminum	308.215	10	4.4
Antimony	206.833	0.5	0.4
Arsenic	189.042	1	0.4
Barium	455.403	0.5	0.11
Beryllium	313.042	0.2	0.028
Cadmium	228.802	0.2	0.03
Calcium	317.933	50	3.3
Chromium	267.716	0.5	0.2
Cobalt	228.616	0.5	0.05
Copper	324.754	1	0.21
Iron	259.940	10	1.1
Lead	220.353	0.5	0.24
Magnesium	279.079	20	0.927
Manganese	257.610	0.2	0.032
Nickel	231.604	1	0.23
Potassium	766.490	30	20
Selenium	196.090	0.5	0.4
Silver	328.068	0.5	0.2
Sodium	589.592	140	13
Thallium	190.856	1	0.3
Tin	189.989	2	0.43
Vanadium	292.402	0.5	0.11

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-30406-1

SDG Number:

Matrix: Solid Instrument ID: ICAP1

Method: 6010 XMDL Date: 02/23/2012 11:55

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Aluminum	308.215	0.2	0.06
Antimony	206.833	0.006	0.00679
Arsenic	189.042	0.01	0.00555
Barium	455.403	0.01	0.0007
Beryllium	313.042	0.001	0.0003
Cadmium	228.802	0.001	0.0005
Calcium	317.933	0.5	0.1
Chromium	267.716	0.005	0.001
Cobalt	228.616	0.004	0.00063
Copper	324.754	0.01	0.0016
Iron	259.904	0.05	0.0193
Lead	220.353	0.005	0.003
Magnesium	279.079	0.2	0.0434
Manganese	257.610	0.003	0.0004
Nickel	231.604	0.01	0.00126
Potassium	766.490	0.5	0.1
Selenium	196.090	0.01	0.0087
Silver	328.068	0.005	0.0017
Sodium	589.592	1	0.324
Thallium	190.856	0.01	0.01024
Tin	189.989	0.01	0.00505
Vanadium	292.402	0.01	0.0015

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-30406-1

SDG Number:

Matrix: Solid Instrument ID: ICAP2

Method: 6010 MDL Date: 09/25/2012 16:35

Prep Method: 3050B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Zinc	206.200	2.5	0.153

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-30406-1

SDG Number:

Matrix: Solid Instrument ID: ICAP2

Method: 6010 XMDL Date: 02/23/2012 11:55

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Zinc	206.200	0.05	0.0015

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-30406-1

SDG Number:

Matrix: Solid Instrument ID: LEEMAN3

Method: 7471A MDL Date: 01/27/2012 14:55

Prep Method: 7471A

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Mercury	253.7	0.1	0.0081

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-30406-1

SDG Number:

Matrix: Solid Instrument ID: LEEMAN3

Method: 7471A XMDL Date: 01/28/2010 14:53

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury	253.7	0.0002	0.00012

FORM IX - IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-30406-1

SDG No.:

ICP-AES Instrument ID: ICAP1 Date: 08/09/2012

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	In	K
Aluminum	308.215														
Antimony	206.833										0.015301				
Arsenic	189.042										-0.013858				
Barium	455.403														
Beryllium	313.042														
Boron	208.959														
Cadmium	228.802			0.001710									0.000001		
Calcium	317.933														
Chromium	267.716												-0.000005		
Cobalt	228.616														
Copper	324.754														
Indium	230.606														
Iron	259.940														
Lead	220.353		-0.000036							-0.000166			0.000039		
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604									-0.000606					
Potassium	766.490														
Selenium	196.090		-0.000040												
Silicon	288.158														
Silver	328.068														
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														
Thallium	190.856									0.004734					
Tin	189.989														
Titanium	334.904														
Vanadium	292.402										-0.004755		0.000018		

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-30406-1

SDG No.:

ICP-AES Instrument ID: ICAP1 Date: 08/09/2012

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	In	K
Yttrium	224.306														
Zinc	206.200										-0.000995				

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-30406-1

SDG No.:

ICP-AES Instrument ID: ICAP1 Date: 08/09/2012

Analyte	Wave Length	Li	Mg	Mn	Mo	Na	Ni	Pb	Sb	Se	Si	Sn	Sr	Ti	Tl
Aluminum	308.215														
Antimony	206.833														
Arsenic	189.042														
Barium	455.403										0.000002				
Beryllium	313.042													-0.000197	
Boron	208.959				0.045198						0.000168				
Cadmium	228.802										0.000017				
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616				-0.000974						-0.000005			0.001662	0.001662
Copper	324.754														
Indium	230.606														
Iron	259.940														
Lead	220.353				-0.001851						0.000233			-0.000543	
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604														
Potassium	766.490														
Selenium	196.090														
Silicon	288.158													0.021198	
Silver	328.068														
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														
Thallium	190.856													-0.000531	
Tin	189.989													-0.002655	
Titanium	334.904														
Vanadium	292.402			-0.000491										0.000640	

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-30406-1

SDG No.:

ICP-AES Instrument ID: ICAP1 Date: 08/09/2012

Analyte	Wave Length	Li	Mg	Mn	Mo	Na	Ni	Pb	Sb	Se	Si	Sn	Sr	Ti	Tl
Yttrium	224.306														
Zinc	206.200														

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-30406-1

SDG No.:

ICP-AES Instrument ID: ICAP1 Date: 08/09/2012

Analyte	Wave Length	V	Y	Zn											
Aluminum	308.215	-0.001546													
Antimony	206.833														
Arsenic	189.042														
Barium	455.403														
Beryllium	313.042	0.000050													
Boron	208.959														
Cadmium	228.802	0.000036													
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616														
Copper	324.754														
Indium	230.606														
Iron	259.940														
Lead	220.353														
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604														
Potassium	766.490														
Selenium	196.090														
Silicon	288.158														
Silver	328.068														
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														
Thallium	190.856	0.000956													
Tin	189.989														
Titanium	334.904														
Vanadium	292.402														

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-30406-1

SDG No.:

ICP-AES Instrument ID: ICAP1 Date: 08/09/2012

Analyte	Wave Length	V	Y	Zn											
Yttrium	224.306														
Zinc	206.200														

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-30406-1

SDG No.:

ICP-AES Instrument ID: ICAP1 Date: 01/17/2013

Analyte	Wave Length	Al	As	Co	Cr	Fe	Mo	Ni	Si	Ti	V				
Antimony					0.013071										
Arsenic					-0.017649										
Beryllium										-0.000584					
Boron							0.037498								
Cadmium			0.002200			0.000003		-0.000123							
Cobalt							-0.001142			0.001731					
Copper										-0.000788					
Lead		-0.000039				0.000039	-0.002009		0.000071	-0.000696					
Selenium		-0.000040													
Thallium				0.004333						-0.000774					
Tin										-0.000495					
Titanium					0.000219										
Vanadium						0.000015	-0.003673			0.000262					
Zinc					-0.001781										

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-30406-1

SDG No.:

ICP-AES Instrument ID: ICAP2 Date: 11/06/2012

Analyte	Wave Length	Al	As	Cr	Fe	Mo	Si	Ti	Tl	V					
Aluminum	308.215									-0.0096596					
Antimony	206.833			0.0132306	0.0000274	-0.0065768		0.0003838							
Arsenic	189.042			-0.020882											
Beryllium	313.042							-0.0000897		0.0002177					
Boron	208.959					0.0357943									
Cadmium	228.802		0.0024665												
Cobalt	228.616					-0.0009663			0.0019047						
Copper	324.754					0.001337		-0.0005793		-0.0002729					
Lead	220.353	-0.0000502			0.0000232	-0.001729	0.0002597	-0.0007063							
Nickel	231.604				0.0000279				0.0002364						
Selenium	196.090	-0.0000143													
Silver	328.068				-0.0000057					0.0001093					
Thallium	190.856							-0.0005004		0.0059574					
Tin	189.989														
Titanium	334.904			0.0001598		0.0004294									
Vanadium	292.402				0.0000146	-0.0032079		0.0003387							
Zinc	206.200			-0.0006932											

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo Job No: 480-30406-1

SDG No.:

Instrument ID: ICAP1 Date: 07/24/2012 11:44

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Silver	15	2	6010
Arsenic	15	40	6010
Barium	15	10	6010
Beryllium	15	25	6010
Cadmium	15	15	6010
Chromium	15	40	6010
Nickel	15	25	6010
Thallium	15	40	6010
Vanadium	15	50	6010
Lead	15	120	6010
Selenium	15	80	6010
Antimony	15	50	6010
Sodium	15	5000	6010
Potassium	15	600	6010
Calcium	15	1000	6010
Iron	15	800	6010
Magnesium	15	250	6010
Copper	15	25	6010
Aluminum	15	1000	6010
Manganese	15	15	6010
Cobalt	15	40	6010

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo Job No: 480-30406-1

SDG No.:

Instrument ID: ICAP1 Date: 01/15/2013 10:14

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Tin	15	5	6010

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo Job No: 480-30406-1

SDG No.:

Instrument ID: ICAP2 Date: 07/24/2012 11:44

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Zinc	15	20	6010

FORM XI - IN

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo Job No: 480-30406-1

SDG No.:

Instrument ID: LEEMAN3 Date: 03/20/2012 10:08

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury	10	10	7471A

FORM XI - IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 480-96586/1-A	12/19/2012 12:00	96586	+0.4742		50
LCSSRM 480-96586/2-A	12/19/2012 12:00	96586	+0.4994		50
LCDSRM 480-96586/3-A	12/19/2012 12:00	96586	+0.5001		50
480-30406-1	12/19/2012 12:00	96586	+0.5654		50
480-30406-2	12/19/2012 12:00	96586	+0.5611		50
480-30406-3	12/19/2012 12:00	96586	+0.5123		50
480-30406-4	12/19/2012 12:00	96586	+0.4979		50
480-30406-4 MS	12/19/2012 12:00	96586	+0.4873		50
480-30406-4 MSD	12/19/2012 12:00	96586	+0.5277		50

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 480-104616/1-A	02/25/2013 09:10	104616	+0.5002		50
LCSSRM 480-104616/2-A	02/25/2013 09:10	104616	+0.5007		50
LCDSRM 480-104616/3-A	02/25/2013 09:10	104616	+0.5005		50
480-30406-1	02/25/2013 09:10	104616	+0.5070		50
480-30406-2	02/25/2013 09:10	104616	+0.5212		50
480-30406-3	02/25/2013 09:10	104616	+0.5042		50
480-30406-4	02/25/2013 09:10	104616	+0.5118		50

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Prep Method: 7471A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 480-96554/1-A	12/19/2012 09:40	96554	+0.6544		50
LCSSRM 480-96554/2-A	12/19/2012 09:40	96554	+0.0534		50
LCDSRM 480-96554/3-A	12/19/2012 09:40	96554	+0.0531		50
480-30406-1	12/19/2012 09:40	96554	+0.5991		50
480-30406-1 MS	12/19/2012 09:40	96554	+0.6016		50
480-30406-1 MSD	12/19/2012 09:40	96554	+0.6454		50
480-30406-2	12/19/2012 09:40	96554	+0.6230		50
480-30406-3	12/19/2012 09:40	96554	+0.6252		50
480-30406-4	12/19/2012 09:40	96554	+0.5835		50

FORM XII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Instrument ID: ICAP1 Method: 6010

Start Date: 12/19/2012 14:00 End Date: 12/19/2012 22:38

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
IC 480-96762/1			14:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-96762/2			14:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-96762/3			14:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-96762/4			14:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 480-96762/5	1		14:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 480-96762/6	1		14:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CRI 480-96762/7	1		14:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 480-96762/8	1		14:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 480-96762/9	1		14:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 480-96762/10			14:21																				
CCB 480-96762/11			14:23																				
CCV 480-96762/12	1		20:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-96762/13	1		20:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 480-96586/1-A	1	T	21:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCSSRM 480-96586/2-A	1	T	21:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCDSRM 480-96586/3-A	1	T	21:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			21:11																				
ZZZZZZ			21:13																				
ZZZZZZ			21:15																				
ZZZZZZ			21:18																				
ZZZZZZ			21:20																				
ZZZZZZ			21:22																				
CCV 480-96762/23	1		21:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-96762/24	1		21:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			21:29																				
ZZZZZZ			21:32																				
ZZZZZZ			21:34																				
480-30406-1	1	T	21:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-30406-2	1	T	21:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-30406-3	1	T	21:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-30406-4	1	T	21:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-30406-4 SD	5	T	21:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-30406-4 PDS	1	T	21:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-30406-4 MS	1	T	21:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 480-96762/35	1		21:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-96762/36	1		21:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-30406-4 MSD	1	T	21:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 480-96762/38	1		22:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-96762/39	1		22:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			22:23																				
ZZZZZZ			22:25																				
CRI 480-96762/42	1		22:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Instrument ID: ICAP1 Method: 6010

Start Date: 12/19/2012 14:00 End Date: 12/19/2012 22:38

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ICSA 480-96762/43	1		22:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 480-96762/44	1		22:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 480-96762/45			22:35																				
CCB 480-96762/46			22:38																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Instrument ID: ICAP1 Method: 6010

Start Date: 12/19/2012 14:00 End Date: 12/19/2012 22:38

Lab Sample ID	D/F	Type	Time	Analytes																			
				V	Zn																		
IC 480-96762/1			14:00	X	X																		
IC 480-96762/2			14:03	X	X																		
IC 480-96762/3			14:05	X	X																		
IC 480-96762/4			14:07	X	X																		
ICV 480-96762/5	1		14:09	X	X																		
ICB 480-96762/6	1		14:11	X	X																		
CRI 480-96762/7	1		14:14	X	X																		
ICSA 480-96762/8	1		14:16	X	X																		
ICSAB 480-96762/9	1		14:18	X	X																		
CCV 480-96762/10			14:21																				
CCB 480-96762/11			14:23																				
CCV 480-96762/12	1		20:57	X	X																		
CCB 480-96762/13	1		20:59	X	X																		
MB 480-96586/1-A	1	T	21:04	X	X																		
LCSSRM 480-96586/2-A	1	T	21:06	X	X																		
LCDSRM 480-96586/3-A	1	T	21:09	X	X																		
ZZZZZZ			21:11																				
ZZZZZZ			21:13																				
ZZZZZZ			21:15																				
ZZZZZZ			21:18																				
ZZZZZZ			21:20																				
ZZZZZZ			21:22																				
CCV 480-96762/23	1		21:25	X	X																		
CCB 480-96762/24	1		21:27	X	X																		
ZZZZZZ			21:29																				
ZZZZZZ			21:32																				
ZZZZZZ			21:34																				
480-30406-1	1	T	21:36	X																			
480-30406-2	1	T	21:38	X																			
480-30406-3	1	T	21:40	X																			
480-30406-4	1	T	21:43	X																			
480-30406-4 SD	5	T	21:45	X																			
480-30406-4 PDS	1	T	21:47	X																			
480-30406-4 MS	1	T	21:50	X																			
CCV 480-96762/35	1		21:52	X																			
CCB 480-96762/36	1		21:54	X																			
480-30406-4 MSD	1	T	21:56	X																			
CCV 480-96762/38	1		22:19	X	X																		
CCB 480-96762/39	1		22:21	X	X																		
ZZZZZZ			22:23																				
ZZZZZZ			22:25																				
CRI 480-96762/42	1		22:28	X	X																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Instrument ID: ICAP1 Method: 6010

Start Date: 12/19/2012 14:00 End Date: 12/19/2012 22:38

Lab Sample ID	D/F	Type	Time	Analytes																			
				V	Zn																		
ICSA 480-96762/43	1		22:30	X	X																		
ICSAB 480-96762/44	1		22:32	X	X																		
CCV 480-96762/45			22:35																				
CCB 480-96762/46			22:38																				

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Instrument ID: ICAP1 Method: 6010

Start Date: 02/26/2013 11:00 End Date: 02/26/2013 12:03

Lab Sample ID	D/F	Type	Time	Analytes																			
				Sn																			
IC 480-104944/1			11:00	X																			
IC 480-104944/2			11:02	X																			
IC 480-104944/3			11:05	X																			
IC 480-104944/4			11:07	X																			
ICV 480-104944/5	1		11:09	X																			
ICB 480-104944/6	1		11:11	X																			
CRI 480-104944/7	1		11:14	X																			
ICSA 480-104944/8	1		11:16	X																			
ICSAB 480-104944/9	1		11:19	X																			
CCV 480-104944/10			11:21																				
CCB 480-104944/11			11:23																				
CCV 480-104944/12	1		11:33	X																			
CCB 480-104944/13	1		11:35	X																			
MB 480-104616/1-A	1	T	11:42	X																			
LCSSRM 480-104616/2-A	1	T	11:44	X																			
LCDSRM 480-104616/3-A	1	T	11:46	X																			
480-30406-1	1	T	11:49	X																			
480-30406-2	1	T	11:51	X																			
480-30406-3	1	T	11:53	X																			
480-30406-4	1	T	11:56	X																			
CCV 480-104944/21	1		12:00	X																			
CCB 480-104944/22	1		12:03	X																			

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Instrument ID: ICAP2 Method: 6010

Start Date: 12/20/2012 11:43 End Date: 12/20/2012 13:22

Lab Sample ID	D/F	Type	Time	Analytes																			
				Zn																			
IC 480-96876/1			11:43	X																			
IC 480-96876/2			11:45	X																			
IC 480-96876/3			11:47	X																			
IC 480-96876/4			11:49	X																			
ICV 480-96876/5	1		11:52	X																			
ICB 480-96876/6	1		11:54	X																			
CRI 480-96876/7	1		11:56	X																			
ICSA 480-96876/8	1		11:58	X																			
ICSAB 480-96876/9	1		12:01	X																			
CCV 480-96876/10			12:03																				
CCB 480-96876/11			12:05																				
CCV 480-96876/12	1		12:14	X																			
CCB 480-96876/13	1		12:17	X																			
ZZZZZZ			12:21																				
ZZZZZZ			12:23																				
ZZZZZZ			12:26																				
ZZZZZZ			12:28																				
480-30406-1	1	T	12:30	X																			
480-30406-2	1	T	12:33	X																			
480-30406-3	1	T	12:35	X																			
480-30406-4	1	T	12:37	X																			
480-30406-4 SD	5	T	12:39	X																			
CCV 480-96876/23	1		12:41	X																			
CCB 480-96876/24	1		12:44	X																			
480-30406-4 PDS	1	T	12:46	X																			
480-30406-4 MS	1	T	12:48	X																			
480-30406-4 MSD	1	T	12:50	X																			
CCV 480-96876/28	1		13:09	X																			
CCB 480-96876/29	1		13:11	X																			
CRI 480-96876/30	1		13:13	X																			
ICSA 480-96876/31	1		13:16	X																			
ICSAB 480-96876/32	1		13:18	X																			
CCV 480-96876/33			13:20																				
CCB 480-96876/34			13:22																				

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Instrument ID: LEEMAN3 Method: 7471A

Start Date: 12/19/2012 12:11 End Date: 12/19/2012 13:03

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ICV 480-96597/1	1		12:11	X																			
ICB 480-96597/2	1		12:14	X																			
CRA 480-96597/3	1		12:16	X																			
CCV 480-96597/4	1		12:17	X																			
CCB 480-96597/5	1		12:19	X																			
MB 480-96554/1-A	1	T	12:21	X																			
LCSSRM 480-96554/2-A	1	T	12:23	X																			
LCDSRM 480-96554/3-A	1	T	12:24	X																			
ZZZZZZ			12:26																				
ZZZZZZ			12:28																				
ZZZZZZ			12:30																				
ZZZZZZ			12:32																				
ZZZZZZ			12:34																				
ZZZZZZ			12:36																				
ZZZZZZ			12:38																				
CCV 480-96597/16	1		12:39	X																			
CCB 480-96597/17	1		12:41	X																			
ZZZZZZ			12:43																				
ZZZZZZ			12:44																				
480-30406-1	1	T	12:46	X																			
480-30406-1 SD	5	T	12:48	X																			
480-30406-1 MS	1	T	12:50	X																			
480-30406-1 MSD	1	T	12:51	X																			
480-30406-2	1	T	12:53	X																			
480-30406-3	1	T	12:55	X																			
480-30406-4	1	T	12:57	X																			
CRA 480-96597/27	1		12:59	X																			
CCV 480-96597/28	1		13:00	X																			
CCB 480-96597/29	1		13:03	X																			

Prep Types

T = Total/NA

Run File: I1121912A Instrument: ICAP1

Analyst: AMH Data Review: AMH 12/20/12

Spikes IDs: 947999(W1), 947970 (W2), 1086209(Sn), 986484(Ag), 827410 (Si), 565444(TCLP)
Pipette IDs: 11-12-12-(1-7,8,10,13,14)
Internal Standard: 1107668

Seq#	Run File ID	Sample ID	Date / Time		Type
1	I1121912A	IC-1118274	12/19/2012	2:00:45PM	Standard
2	I1121912A	IC-1112371	12/19/2012	2:03:02PM	Standard
3	I1121912A	IC-1112370	12/19/2012	2:05:11PM	Standard
4	I1121912A	IC-1112366	12/19/2012	2:07:26PM	Standard
5	I1121912A	ICV-1120773	12/19/2012	2:09:39PM	QC
6	I1121912A	ICB-1100372	12/19/2012	2:11:48PM	QC
7	I1121912A	CRI-1107665	12/19/2012	2:14:05PM	QC
8	I1121912A	ICSA-1101769	12/19/2012	2:16:21PM	QC
9	I1121912A	ICSAB-1086099	12/19/2012	2:18:47PM	QC
10	I1121912A	CCV-1107667	12/19/2012	2:21:10PM	QC
11	I1121912A	CCB-1100372	12/19/2012	2:23:22PM	QC
12	I1121912A	MB 480-96309/1-B	12/19/2012	2:25:39PM	Unknown
13	I1121912A	LCS 480-96309/2-B	12/19/2012	2:27:55PM	Unknown
14	I1121912A	480-30366-I-1-B	12/19/2012	2:30:06PM	Unknown
15	I1121912A	CCV	12/19/2012	2:32:31PM	QC
16	I1121912A	CCB	12/19/2012	2:34:46PM	QC
17	I1121912A	480-30366-I-2-B	12/19/2012	2:37:04PM	Unknown
18	I1121912A	480-30366-I-2-B SD@5	12/19/2012	2:39:26PM	Unknown
19	I1121912A	480-30366-I-2-B PDS	12/19/2012	2:41:40PM	Unknown
20	I1121912A	480-30366-I-2-C MS	12/19/2012	2:43:58PM	Unknown
21	I1121912A	480-30366-I-2-D MSD	12/19/2012	2:46:15PM	Unknown
22	I1121912A	MB 480-96424/1-A	12/19/2012	2:48:33PM	Unknown
23	I1121912A	LCS 480-96424/2-A	12/19/2012	2:50:49PM	Unknown
24	I1121912A	480-30350-A-1-A	12/19/2012	2:53:02PM	Unknown
25	I1121912A	480-30350-A-2-A	12/19/2012	2:55:14PM	Unknown
26	I1121912A	480-30350-A-3-A	12/19/2012	2:57:42PM	Unknown
27	I1121912A	CCV	12/19/2012	3:00:01PM	QC
28	I1121912A	CCB	12/19/2012	3:02:15PM	QC
29	I1121912A	480-30350-A-5-A	12/19/2012	3:04:34PM	Unknown
30	I1121912A	480-30350-A-6-A	12/19/2012	3:06:50PM	Unknown
31	I1121912A	480-30350-A-7-A	12/19/2012	3:09:01PM	Unknown
32	I1121912A	480-30350-A-8-A	12/19/2012	3:11:13PM	Unknown
33	I1121912A	480-30350-A-9-A	12/19/2012	3:13:35PM	Unknown
34	I1121912A	480-30350-A-10-A	12/19/2012	3:15:49PM	Unknown
35	I1121912A	480-30350-A-11-A	12/19/2012	3:18:02PM	Unknown
36	I1121912A	480-30350-A-12-A	12/19/2012	3:20:15PM	Unknown
37	I1121912A	480-30350-A-13-A	12/19/2012	3:22:29PM	Unknown
38	I1121912A	480-30350-A-14-A	12/19/2012	3:24:46PM	Unknown
39	I1121912A	CCV	12/19/2012	3:27:07PM	QC
40	I1121912A	CCB	12/19/2012	3:29:20PM	QC
41	I1121912A	480-30350-A-15-A	12/19/2012	3:31:40PM	Unknown

42	I1121912A	480-30350-A-16-A	12/19/2012	3:33:57PM	Unknown
43	I1121912A	480-30369-E-1-A	12/19/2012	3:36:10PM	Unknown
44	I1121912A	480-30369-E-2-A	12/19/2012	3:38:22PM	Unknown
45	I1121912A	480-30369-E-2-A SD@5	12/19/2012	3:40:35PM	Unknown
46	I1121912A	480-30369-E-2-A PDS	12/19/2012	3:42:48PM	Unknown
47	I1121912A	480-30369-E-2-B MS	12/19/2012	3:45:01PM	Unknown
48	I1121912A	480-30369-E-2-C MSD	12/19/2012	3:47:12PM	Unknown
49	I1121912A	480-30369-E-3-A	12/19/2012	3:49:24PM	Unknown
50	I1121912A	MB 480-96426/1-A	12/19/2012	3:51:36PM	Unknown
51	I1121912A	CCV	12/19/2012	3:53:54PM	QC
52	I1121912A	CCB	12/19/2012	3:56:08PM	QC
53	I1121912A	LCS 480-96426/2-A	12/19/2012	3:58:27PM	Unknown
54	I1121912A	480-30367-Q-1-A	12/19/2012	4:00:39PM	Unknown
55	I1121912A	480-30367-Q-2-A	12/19/2012	4:03:02PM	Unknown
56	I1121912A	480-30367-Q-3-A	12/19/2012	4:05:24PM	Unknown
57	I1121912A	480-30367-Q-4-A	12/19/2012	4:07:41PM	Unknown
58	I1121912A	480-30367-Q-5-A	12/19/2012	4:10:04PM	Unknown
59	I1121912A	480-30367-Q-6-A	12/19/2012	4:12:21PM	Unknown
60	I1121912A	480-30367-Q-7-A	12/19/2012	4:14:40PM	Unknown
61	I1121912A	480-30367-Q-9-A	12/19/2012	4:16:53PM	Unknown
62	I1121912A	480-30368-A-1-A	12/19/2012	4:19:09PM	Unknown
63	I1121912A	CCV	12/19/2012	4:21:41PM	QC
64	I1121912A	CCB	12/19/2012	4:23:54PM	QC
65	I1121912A	480-30368-A-2-A	12/19/2012	4:26:13PM	Unknown
66	I1121912A	480-30368-A-3-A	12/19/2012	4:28:42PM	Unknown
67	I1121912A	480-30368-A-3-A SD@5	12/19/2012	4:31:11PM	Unknown
68	I1121912A	480-30368-A-3-A PDS	12/19/2012	4:33:25PM	Unknown
69	I1121912A	480-30368-A-3-B MS	12/19/2012	4:35:48PM	Unknown
70	I1121912A	480-30368-A-3-C MSD	12/19/2012	4:38:10PM	Unknown
71	I1121912A	480-30368-A-4-A	12/19/2012	4:40:33PM	Unknown
72	I1121912A	480-30368-A-5-A	12/19/2012	4:42:56PM	Unknown
73	I1121912A	480-30368-A-6-A	12/19/2012	4:45:30PM	Unknown
74	I1121912A	480-30370-E-1-A	12/19/2012	4:48:17PM	Unknown
75	I1121912A	CCV	12/19/2012	4:50:43PM	QC
76	I1121912A	CCB	12/19/2012	4:53:00PM	QC
77	I1121912A	480-30370-E-2-A	12/19/2012	4:55:21PM	Unknown
78	I1121912A	480-30370-E-3-A	12/19/2012	4:57:47PM	Unknown
79	I1121912A	480-30372-E-1-A	12/19/2012	4:59:59PM	Unknown
80	I1121912A	480-30372-E-2-A	12/19/2012	5:02:13PM	Unknown
81	I1121912A	480-30372-E-3-A	12/19/2012	5:04:26PM	Unknown
82	I1121912A	MB 480-96048/1-A	12/19/2012	5:06:38PM	Unknown
83	I1121912A	LCS 480-96048/2-A	12/19/2012	5:08:56PM	Unknown
84	I1121912A	LCSD 480-96048/3-A	12/19/2012	5:11:08PM	Unknown
85	I1121912A	480-30152-C-3-D	12/19/2012	5:13:19PM	Unknown
86	I1121912A	480-30152-C-3-D SD@5	12/19/2012	5:15:39PM	Unknown
87	I1121912A	CCV	12/19/2012	5:17:54PM	QC
88	I1121912A	CCB	12/19/2012	5:20:10PM	QC
89	I1121912A	480-30152-C-3-D PDS	12/19/2012	5:22:31PM	Unknown
90	I1121912A	480-30152-C-3-E MS	12/19/2012	5:24:47PM	Unknown
91	I1121912A	480-30152-C-3-F MSD	12/19/2012	5:27:05PM	Unknown

92	I1121912A	480-30152-A-4-B	12/19/2012	5:29:23PM	Unknown
93	I1121912A	480-30152-A-5-B	12/19/2012	5:31:34PM	Unknown
94	I1121912A	480-30152-C-6-B	12/19/2012	5:33:54PM	Unknown
95	I1121912A	480-30152-C-7-B	12/19/2012	5:36:10PM	Unknown
96	I1121912A	480-30152-A-8-B	12/19/2012	5:38:30PM	Unknown
97	I1121912A	480-30152-A-9-B	12/19/2012	5:40:46PM	Unknown
98	I1121912A	480-30152-A-10-B	12/19/2012	5:42:58PM	Unknown
99	I1121912A	CCV	12/19/2012	5:45:12PM	QC
100	I1121912A	CCB	12/19/2012	5:47:26PM	QC
101	I1121912A	480-30152-A-11-B	12/19/2012	5:49:47PM	Unknown
102	I1121912A	480-30152-A-12-B	12/19/2012	5:51:52PM	Unknown
103	I1121912A	480-30328-C-10-A	12/19/2012	5:54:06PM	Unknown
104	I1121912A	480-30328-C-11-A	12/19/2012	5:56:31PM	Unknown
105	I1121912A	480-30328-C-12-A	12/19/2012	5:58:57PM	Unknown
106	I1121912A	480-30328-C-13-A	12/19/2012	6:01:21PM	Unknown
107	I1121912A	480-30316-A-2-A	12/19/2012	6:03:50PM	Unknown
108	I1121912A	480-30316-A-2-A SD@5	12/19/2012	6:06:08PM	Unknown
109	I1121912A	480-30316-A-2-A PDS	12/19/2012	6:08:22PM	Unknown
110	I1121912A	480-30316-A-2-B MS	12/19/2012	6:10:40PM	Unknown
111	I1121912A	CCV	12/19/2012	6:13:00PM	QC
112	I1121912A	CCB	12/19/2012	6:15:14PM	QC
113	I1121912A	480-30316-A-2-C MSD	12/19/2012	6:17:34PM	Unknown
114	I1121912A	480-30298-A-4-A@5	12/19/2012	6:19:51PM	Unknown
115	I1121912A	MB 480-96161/1-A	12/19/2012	6:22:02PM	Unknown
116	I1121912A	LCSSRM 480-96161/2-A	12/19/2012	6:24:17PM	Unknown
117	I1121912A	LCDSRM 480-96161/3-A	12/19/2012	6:26:28PM	Unknown
118	I1121912A	480-30158-A-1-H	12/19/2012	6:28:41PM	Unknown
119	I1121912A	480-30158-A-2-F	12/19/2012	6:30:53PM	Unknown
120	I1121912A	480-30158-A-3-F	12/19/2012	6:33:14PM	Unknown
121	I1121912A	480-30158-A-3-F SD@5	12/19/2012	6:35:24PM	Unknown
122	I1121912A	480-30158-A-3-F PDS	12/19/2012	6:37:37PM	Unknown
123	I1121912A	CCV	12/19/2012	6:39:53PM	QC
124	I1121912A	CCB	12/19/2012	6:42:04PM	QC
125	I1121912A	480-30158-A-3-G MS	12/19/2012	6:44:20PM	Unknown
126	I1121912A	480-30158-A-3-H MSD	12/19/2012	6:46:29PM	Unknown
127	I1121912A	480-30158-A-4-F	12/19/2012	6:48:38PM	Unknown
128	I1121912A	480-30158-A-5-F	12/19/2012	6:50:47PM	Unknown
129	I1121912A	480-30158-A-6-F	12/19/2012	6:52:52PM	Unknown
130	I1121912A	480-30328-B-1-B	12/19/2012	6:54:56PM	Unknown
131	I1121912A	480-30328-C-2-B	12/19/2012	6:57:04PM	Unknown
132	I1121912A	480-30328-C-3-B	12/19/2012	6:59:18PM	Unknown
133	I1121912A	480-30328-B-4-B	12/19/2012	7:01:33PM	Unknown
134	I1121912A	480-30328-B-5-B	12/19/2012	7:04:07PM	Unknown
135	I1121912A	CCV	12/19/2012	7:06:43PM	QC
136	I1121912A	CCB	12/19/2012	7:09:03PM	QC
137	I1121912A	480-30328-B-6-B	12/19/2012	7:11:26PM	Unknown
138	I1121912A	480-30328-B-7-B	12/19/2012	7:13:38PM	Unknown
139	I1121912A	480-30328-C-8-B	12/19/2012	7:15:47PM	Unknown
140	I1121912A	480-30328-C-9-B	12/19/2012	7:18:02PM	Unknown
141	I1121912A	480-30303-A-6-A	12/19/2012	7:20:18PM	Unknown

142	I1121912A	480-30303-C-7-A	12/19/2012	7:22:30PM	Unknown
143	I1121912A	480-30179-A-4-A@5	12/19/2012	7:24:48PM	Unknown
144	I1121912A	480-30179-A-5-A@5	12/19/2012	7:26:59PM	Unknown
145	I1121912A	480-30262-C-2-A	12/19/2012	7:29:20PM	Unknown
146	I1121912A	MB 480-96162/1-A	12/19/2012	7:31:28PM	Unknown
147	I1121912A	CCV	12/19/2012	7:33:44PM	QC
148	I1121912A	CCB	12/19/2012	7:35:53PM	QC
149	I1121912A	LCSSRM 480-96162/2-A	12/19/2012	7:38:08PM	Unknown
150	I1121912A	LCDSRM 480-96162/3-A	12/19/2012	7:40:15PM	Unknown
151	I1121912A	480-30254-A-1-C	12/19/2012	7:42:16PM	Unknown
152	I1121912A	480-30254-A-2-C	12/19/2012	7:44:18PM	Unknown
153	I1121912A	480-30254-A-3-C	12/19/2012	7:46:21PM	Unknown
154	I1121912A	480-30254-A-4-C	12/19/2012	7:48:27PM	Unknown
155	I1121912A	480-30254-A-5-C	12/19/2012	7:50:36PM	Unknown
156	I1121912A	480-30254-A-6-C	12/19/2012	7:52:47PM	Unknown
157	I1121912A	480-30254-A-7-C	12/19/2012	7:54:56PM	Unknown
158	I1121912A	480-30254-A-8-C	12/19/2012	7:57:05PM	Unknown
159	I1121912A	CCV	12/19/2012	7:59:17PM	QC
160	I1121912A	CCB	12/19/2012	8:01:31PM	QC
161	I1121912A	480-30254-A-9-C	12/19/2012	8:03:46PM	Unknown
162	I1121912A	480-30254-A-9-C SD@5	12/19/2012	8:05:50PM	Unknown
163	I1121912A	480-30254-A-9-C PDS	12/19/2012	8:07:57PM	Unknown
164	I1121912A	480-30254-A-9-D MS	12/19/2012	8:10:19PM	Unknown
165	I1121912A	480-30254-A-9-E MSD	12/19/2012	8:13:12PM	Unknown
166	I1121912A	480-30276-E-3-C MSD	12/19/2012	8:15:55PM	Unknown
167	I1121912A	480-30276-E-4-A	12/19/2012	8:18:24PM	Unknown
168	I1121912A	480-30276-E-5-A	12/19/2012	8:21:06PM	Unknown
169	I1121912A	480-30276-E-6-A	12/19/2012	8:23:33PM	Unknown
170	I1121912A	480-30276-E-7-A	12/19/2012	8:25:55PM	Unknown
171	I1121912A	CCV	12/19/2012	8:28:23PM	QC
172	I1121912A	CCB	12/19/2012	8:30:47PM	QC
173	I1121912A	480-30276-E-8-A	12/19/2012	8:33:20PM	Unknown
174	I1121912A	480-30276-E-9-A	12/19/2012	8:36:01PM	Unknown
175	I1121912A	480-30276-E-10-A	12/19/2012	8:38:22PM	Unknown
176	I1121912A	480-30277-E-1-A	12/19/2012	8:40:55PM	Unknown
177	I1121912A	480-30277-E-2-A	12/19/2012	8:43:22PM	Unknown
178	I1121912A	480-30277-E-3-A	12/19/2012	8:45:52PM	Unknown
179	I1121912A	480-30277-E-4-A	12/19/2012	8:48:21PM	Unknown
180	I1121912A	480-30277-E-5-A	12/19/2012	8:50:50PM	Unknown
181	I1121912A	480-30277-E-6-A	12/19/2012	8:53:13PM	Unknown
182	I1121912A	480-30281-B-1-A	12/19/2012	8:55:35PM	Unknown
183	I1121912A	CCV	12/19/2012	8:57:43PM	QC
184	I1121912A	CCB	12/19/2012	8:59:52PM	QC
185	I1121912A	480-30281-B-2-A	12/19/2012	9:02:10PM	Unknown
186	I1121912A	MB 480-96586/1-A	12/19/2012	9:04:22PM	Unknown
187	I1121912A	LCSSRM 480-96586/2-A	12/19/2012	9:06:49PM	Unknown
188	I1121912A	LCDSRM 480-96586/3-A	12/19/2012	9:09:09PM	Unknown
189	I1121912A	480-30342-F-2-B	12/19/2012	9:11:20PM	Unknown
190	I1121912A	480-30342-F-3-B	12/19/2012	9:13:34PM	Unknown
191	I1121912A	480-30342-E-4-B	12/19/2012	9:15:53PM	Unknown

192	I1121912A	480-30342-E-5-B	12/19/2012	9:18:10PM	Unknown
193	I1121912A	480-30342-F-6-B	12/19/2012	9:20:27PM	Unknown
194	I1121912A	480-30342-E-7-B	12/19/2012	9:22:45PM	Unknown
195	I1121912A	CCV	12/19/2012	9:25:11PM	QC
196	I1121912A	CCB	12/19/2012	9:27:36PM	QC
197	I1121912A	480-30342-F-8-B	12/19/2012	9:29:55PM	Unknown
198	I1121912A	480-30409-A-1-B	12/19/2012	9:32:08PM	Unknown
199	I1121912A	480-30387-A-1-B	12/19/2012	9:34:20PM	Unknown
200	I1121912A	480-30406-E-1-D	12/19/2012	9:36:37PM	Unknown
201	I1121912A	480-30406-E-2-B	12/19/2012	9:38:46PM	Unknown
202	I1121912A	480-30406-D-3-B	12/19/2012	9:40:58PM	Unknown
203	I1121912A	480-30406-D-4-B	12/19/2012	9:43:17PM	Unknown
204	I1121912A	480-30406-D-4-B SD@5	12/19/2012	9:45:33PM	Unknown
205	I1121912A	480-30406-D-4-B PDS	12/19/2012	9:47:47PM	Unknown
206	I1121912A	480-30406-D-4-C MS	12/19/2012	9:50:03PM	Unknown
207	I1121912A	CCV	12/19/2012	9:52:19PM	QC
208	I1121912A	CCB	12/19/2012	9:54:35PM	QC
209	I1121912A	480-30406-D-4-D MSD	12/19/2012	9:56:55PM	Unknown
210	I1121912A	Cd 10	12/19/2012	9:59:09PM	Unknown
211	I1121912A	Cu 20	12/19/2012	10:01:25PM	Unknown
212	I1121912A	Ti 40	12/19/2012	10:03:40PM	Unknown
213	I1121912A	V 40	12/19/2012	10:05:57PM	Unknown
214	I1121912A	30250-3 tot raw	12/19/2012	10:08:16PM	Unknown
215	I1121912A	30250-7 tot raw	12/19/2012	10:10:25PM	Unknown
216	I1121912A	30250-8 tot raw	12/19/2012	10:12:36PM	Unknown
217	I1121912A	30207-5 tot raw	12/19/2012	10:14:47PM	Unknown
218	I1121912A	30208-5 tot raw	12/19/2012	10:16:59PM	Unknown
219	I1121912A	CCV	12/19/2012	10:19:15PM	QC
220	I1121912A	CCB	12/19/2012	10:21:24PM	QC
221	I1121912A	RB	12/19/2012	10:23:36PM	Unknown
222	I1121912A	RB	12/19/2012	10:25:49PM	Unknown
223	I1121912A	CRI-1107665	12/19/2012	10:28:05PM	QC
224	I1121912A	ICSA-1101769	12/19/2012	10:30:22PM	QC
225	I1121912A	ICSAB-1086099	12/19/2012	10:32:47PM	QC
226	I1121912A	CCV	12/19/2012	10:35:33PM	QC
227	I1121912A	CCB	12/19/2012	10:38:12PM	QC

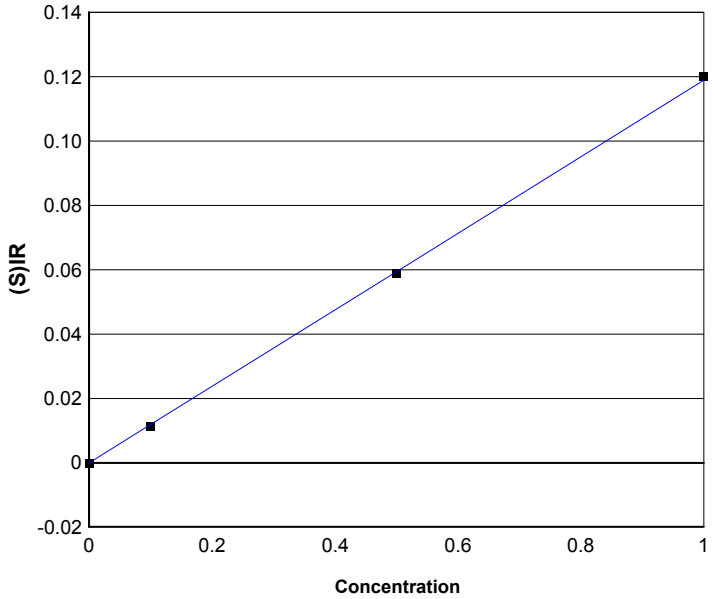
I1121912A

Author: AMH

Published: 12/20/2012 8:59:15AM

Instrument Name: ICAP 1 Serial Number: 20094603

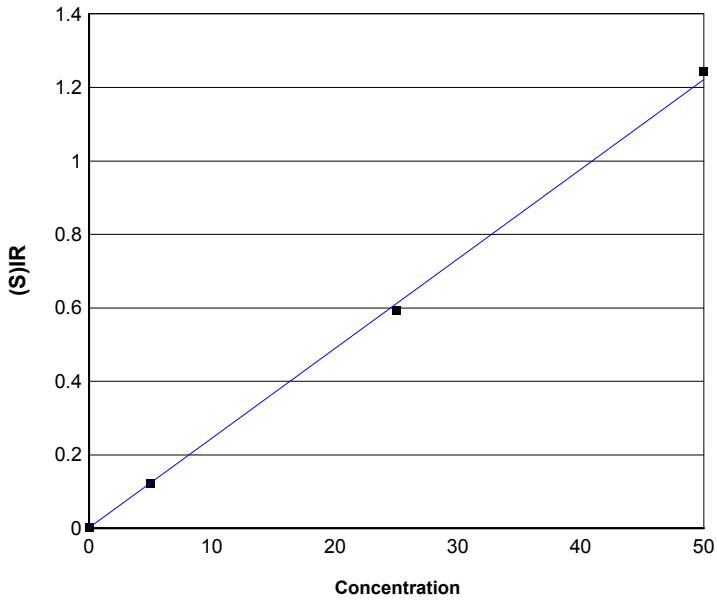
Method Name: ICAP1 (396)



Element Name:	Ag
Element Wavelength:	Ag 328.068 nm
Concentration Units:	ppm
Date of Calibration:	12/19/2012 2:09:33PM
Date of Fit:	12/19/2012 2:09:33PM
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	-0.00014008
A1 (Gain):	0.11915
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

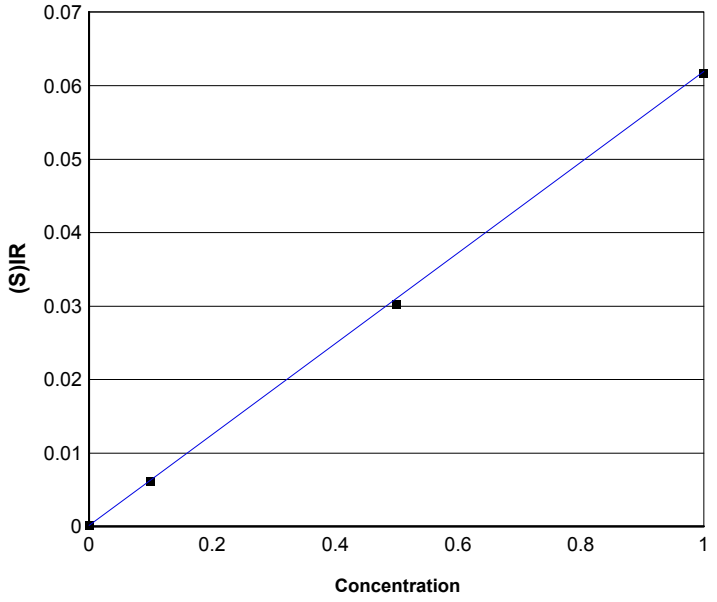
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000032030	0.0000032030	0.00000	-0.00013970	0.000046126	1
IC4	1.0000	1.0092	0.0091783	0.91783	0.12010	0.0000012276	1
IC2	0.10000	0.097144	-0.0028564	-2.8564	0.011434	0.00010602	1
IC3	0.50000	0.49368	-0.0063219	-1.2644	0.058680	0.00015040	1



Element Name:	Al
Element Wavelength:	Al 308.215 nm
Concentration Units:	ppm
Date of Calibration:	12/19/2012 2:09:33PM
Date of Fit:	12/19/2012 2:09:33PM
Type of Fit:	Linear
Correlation:	0.99976
A0 (Offset):	0.0012717
A1 (Gain):	0.024409
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

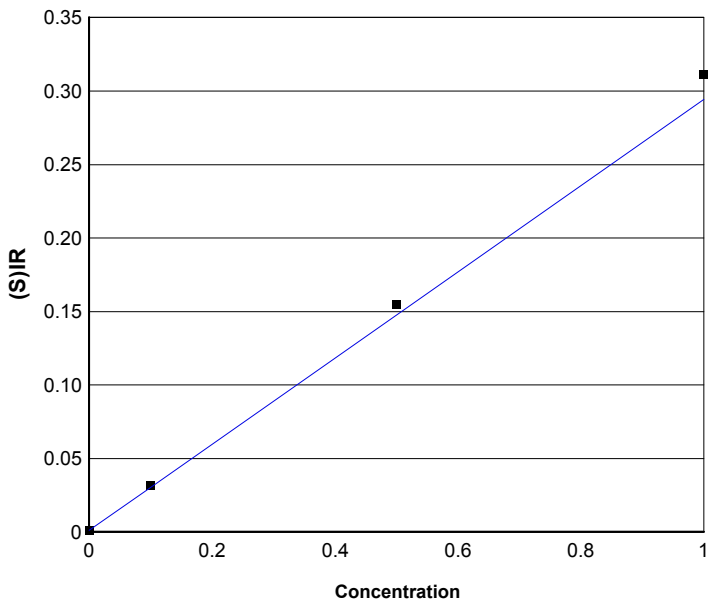
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.00017761	0.00017761	0.00000	0.0012760	0.00027249	1
IC4	50.000	50.850	0.84988	1.6998	1.2424	0.054276	1
IC2	5.0000	4.8842	-0.11578	-2.3155	0.12049	0.0012435	1
IC3	25.000	24.266	-0.73410	-2.9364	0.59356	0.0066965	1



Element Name:	As
Element Wavelength:	As 189.042 nm
Concentration Units:	ppm
Date of Calibration:	12/19/2012 2:09:33PM
Date of Fit:	12/19/2012 2:09:33PM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	0.00015273
A1 (Gain):	0.061804
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

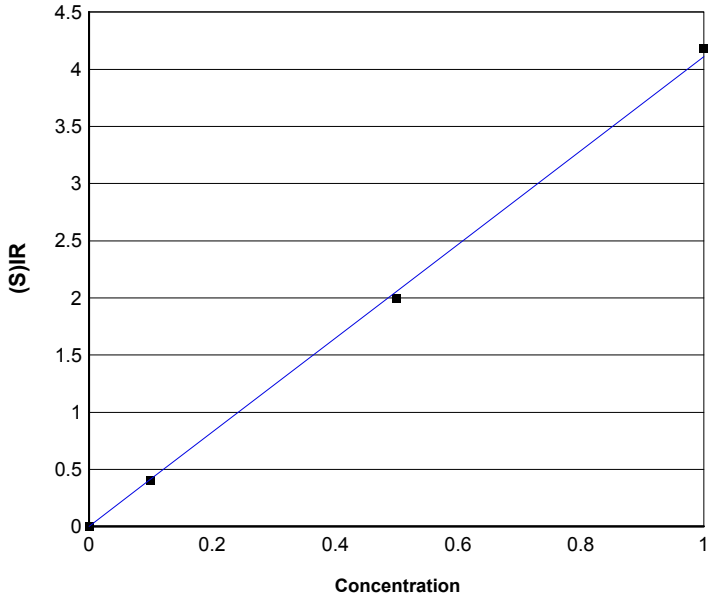
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000028889	0.0000028889	0.00000	0.00015291	0.000027018	1
IC4	1.0000	1.0084	0.0083980	0.83980	0.061620	0.00019075	1
IC2	0.10000	0.097439	-0.0025614	-2.5614	0.0060892	0.000010335	1
IC3	0.50000	0.49416	-0.0058365	-1.1673	0.030266	0.00023745	1



Element Name:	B
Element Wavelength:	B 208.959 nm
Concentration Units:	ppm
Date of Calibration:	12/19/2012 2:09:33PM
Date of Fit:	12/19/2012 2:09:33PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00098067
A1 (Gain):	0.29337
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

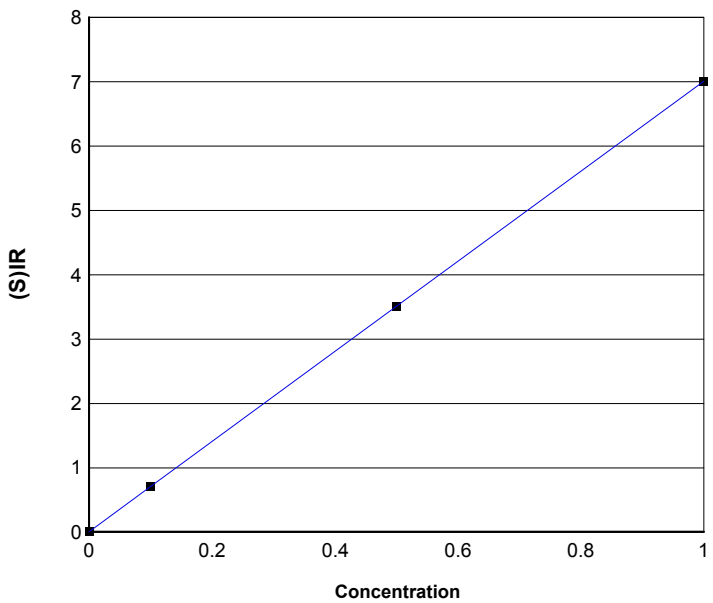
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000012487	0.0000012487	0.00000	0.00098103	0.00017462	1
IC4	1.0000	1.0045	0.0045431	0.45431	0.31140	0.00059238	1
IC2	0.10000	0.099007	-0.00099302	-0.99302	0.031598	0.00015369	1
IC3	0.50000	0.49645	-0.0035501	-0.71002	0.15448	0.0014550	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	12/19/2012 2:09:33PM
Date of Fit:	12/19/2012 2:09:33PM
Type of Fit:	Linear
Correlation:	0.99977
A0 (Offset):	0.0013699
A1 (Gain):	4.1097
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

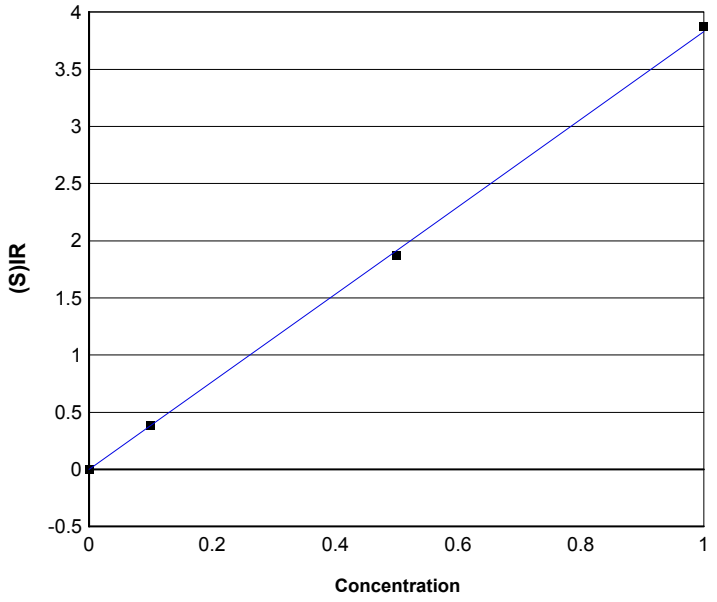
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000038334	0.0000038334	0.00000	0.0013856	0.00020245	1
IC4	1.0000	1.0167	0.016746	1.6746	4.1803	0.18601	1
IC2	0.10000	0.097301	-0.0026985	-2.6985	0.40129	0.0040130	1
IC3	0.50000	0.48595	-0.014048	-2.8095	1.9987	0.018498	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	12/19/2012 2:09:33PM
Date of Fit:	12/19/2012 2:09:33PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0013775
A1 (Gain):	7.0109
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

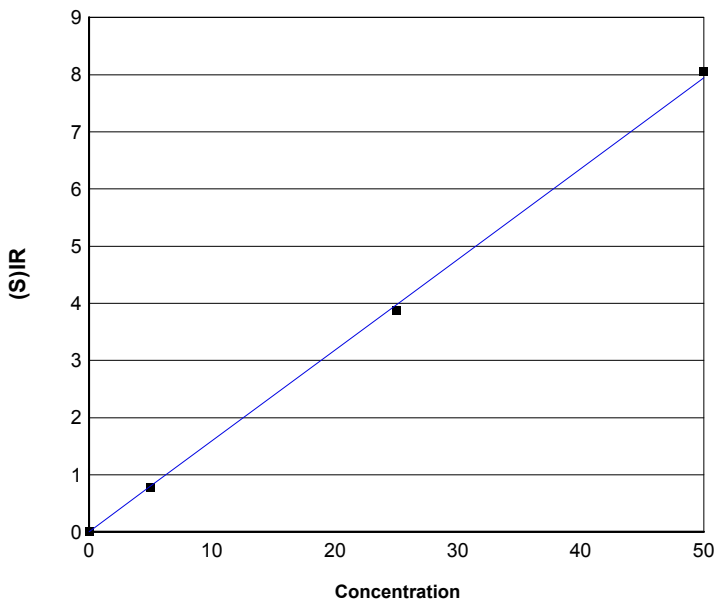
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000008622	-0.0000008622	0.00000	0.0013714	0.00022905	1
IC4	1.0000	0.99827	-0.0017309	-0.17309	7.0001	0.0076095	1
IC2	0.10000	0.10086	0.00086144	0.86144	0.70851	0.0065765	1
IC3	0.50000	0.50087	0.00086943	0.17389	3.5129	0.015511	1



Element Name:	Be
Element Wavelength:	Be 313.042 nm
Concentration Units:	ppm
Date of Calibration:	12/19/2012 2:09:33PM
Date of Fit:	12/19/2012 2:09:33PM
Type of Fit:	Linear
Correlation:	0.99987
A0 (Offset):	-0.00012714
A1 (Gain):	3.8281
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

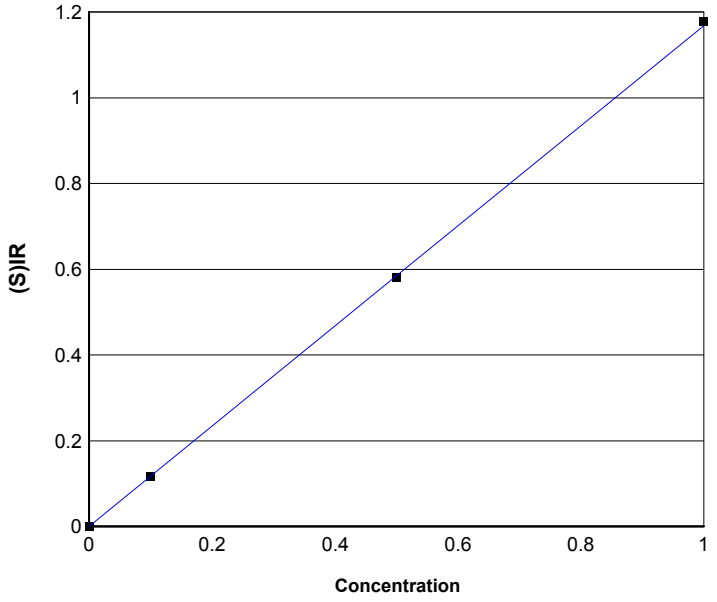
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000015457	0.0000015457	0.00000	-0.00012122	0.00022510	1
IC4	1.0000	1.0121	0.012105	1.2105	3.8737	0.17806	1
IC2	0.10000	0.099581	-0.00041897	-0.41897	0.38102	0.0038158	1
IC3	0.50000	0.48831	-0.011686	-2.3373	1.8689	0.017752	1



Element Name:	Ca
Element Wavelength:	Ca 317.933 nm
Concentration Units:	ppm
Date of Calibration:	12/19/2012 2:09:33PM
Date of Fit:	12/19/2012 2:09:33PM
Type of Fit:	Linear
Correlation:	0.99981
A0 (Offset):	0.0058394
A1 (Gain):	0.15873
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

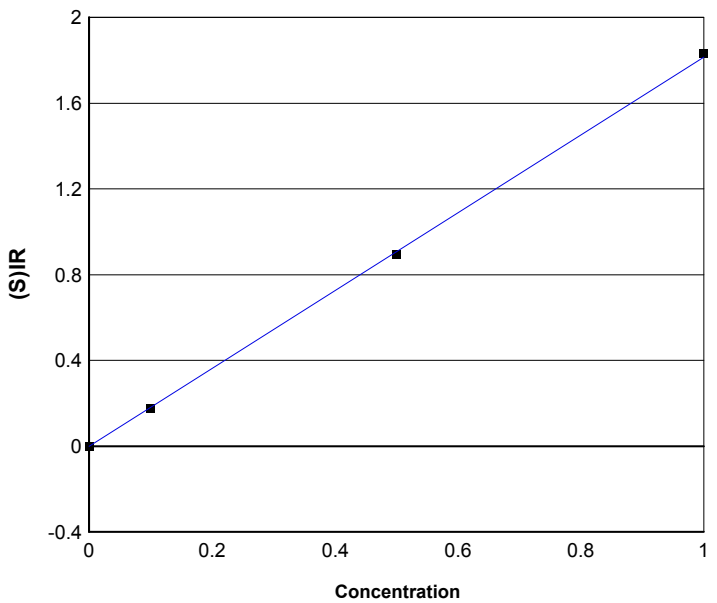
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.00015214	0.00015214	0.00000	0.0058636	0.00019842	1
IC4	50.000	50.753	0.75342	1.5068	8.0622	0.35520	1
IC2	5.0000	4.9040	-0.095999	-1.9200	0.78427	0.010233	1
IC3	25.000	24.343	-0.65742	-2.6297	3.8698	0.036294	1



Element Name:	Cd
Element Wavelength:	Cd 228.802 nm
Concentration Units:	ppm
Date of Calibration:	12/19/2012 2:09:33PM
Date of Fit:	12/19/2012 2:09:33PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00083836
A1 (Gain):	1.1675
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

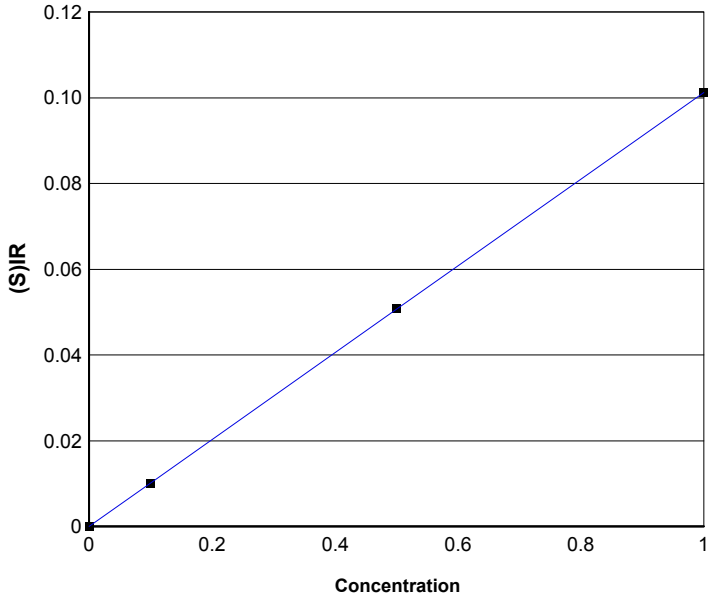
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000005684	0.0000005684	0.00000	0.00083903	0.000055543	1
IC4	1.0000	1.0041	0.0041018	0.41018	1.1773	0.00068200	1
IC2	0.10000	0.099802	-0.00019774	-0.19774	0.11777	0.00092952	1
IC3	0.50000	0.49610	-0.0039040	-0.78080	0.58210	0.0060950	1



Element Name:	Co
Element Wavelength:	Co 228.616 nm
Concentration Units:	ppm
Date of Calibration:	12/19/2012 2:09:33PM
Date of Fit:	12/19/2012 2:09:33PM
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	-0.00040429
A1 (Gain):	1.8154
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

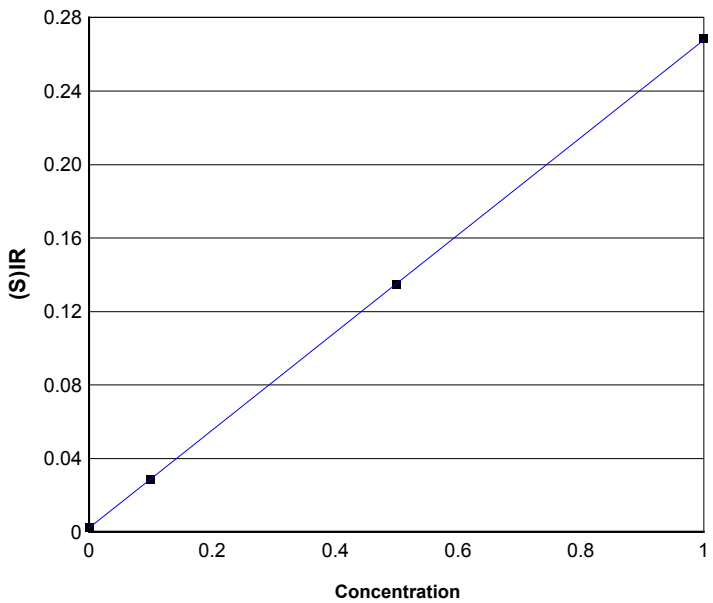
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000030086	0.0000030086	0.00000	-0.00039882	0.00032715	1
IC4	1.0000	1.0098	0.0097521	0.97521	1.8335	0.0014787	1
IC2	0.10000	0.097458	-0.0025417	-2.5417	0.17660	0.00047864	1
IC3	0.50000	0.49279	-0.0072104	-1.4421	0.89461	0.0089147	1



Element Name:	Cr
Element Wavelength:	Cr 267.716 nm
Concentration Units:	ppm
Date of Calibration:	12/19/2012 2:09:33PM
Date of Fit:	12/19/2012 2:09:33PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.000034593
A1 (Gain):	0.10127
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

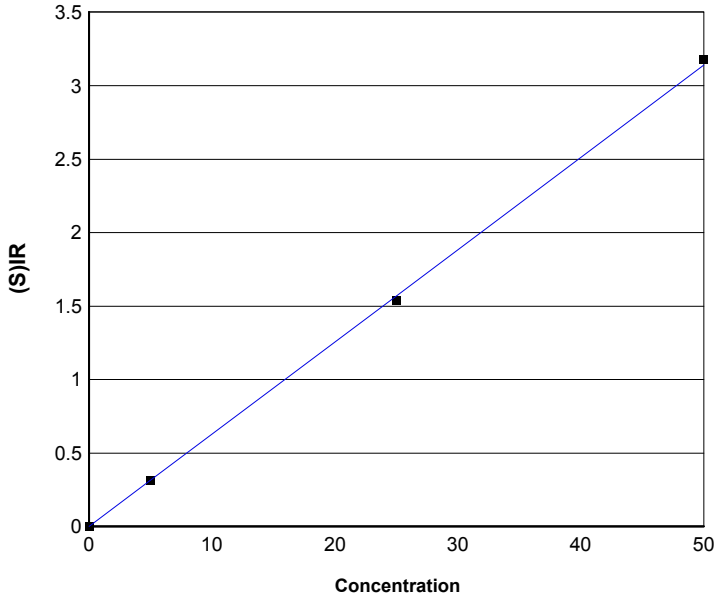
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000001687	0.0000001687	0.00000	0.000034610	0.000020552	1
IC4	1.0000	0.99920	-0.00079927	-0.079927	0.10119	0.00029124	1
IC2	0.10000	0.099689	-0.00031076	-0.31076	0.010127	0.00012370	1
IC3	0.50000	0.50111	0.0011100	0.22201	0.050767	0.000034201	1



Element Name:	Cu
Element Wavelength:	Cu 324.754 nm
Concentration Units:	ppm
Date of Calibration:	12/19/2012 2:09:33PM
Date of Fit:	12/19/2012 2:09:33PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0022354
A1 (Gain):	0.26570
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

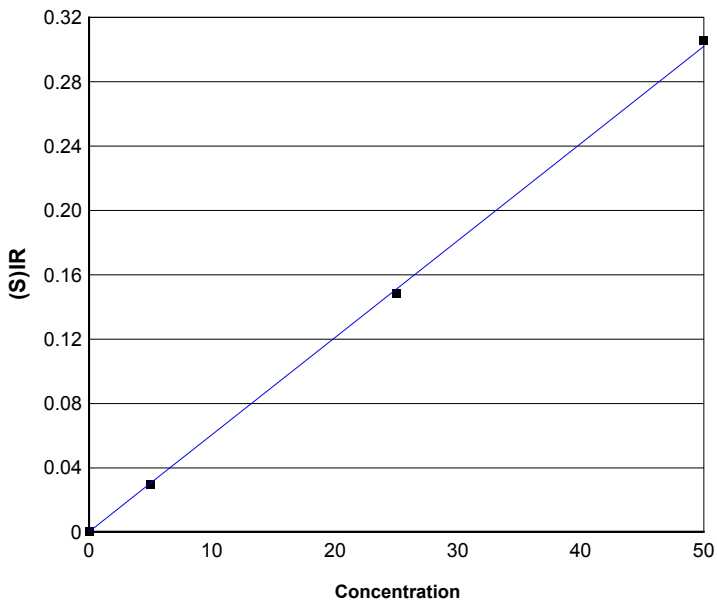
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000007527	0.0000007527	0.00000	0.0022356	0.000032549	1
IC4	1.0000	1.0013	0.0013231	0.13231	0.26829	0.00089041	1
IC2	0.10000	0.099225	-0.00077545	-0.77545	0.028599	0.00019185	1
IC3	0.50000	0.49945	-0.00054769	-0.10954	0.13494	0.00025863	1



Element Name:	Fe
Element Wavelength:	Fe 259.940 nm
Concentration Units:	ppm
Date of Calibration:	12/19/2012 2:09:33PM
Date of Fit:	12/19/2012 2:09:33PM
Type of Fit:	Linear
Correlation:	0.99988
A0 (Offset):	0.00016450
A1 (Gain):	0.062822
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

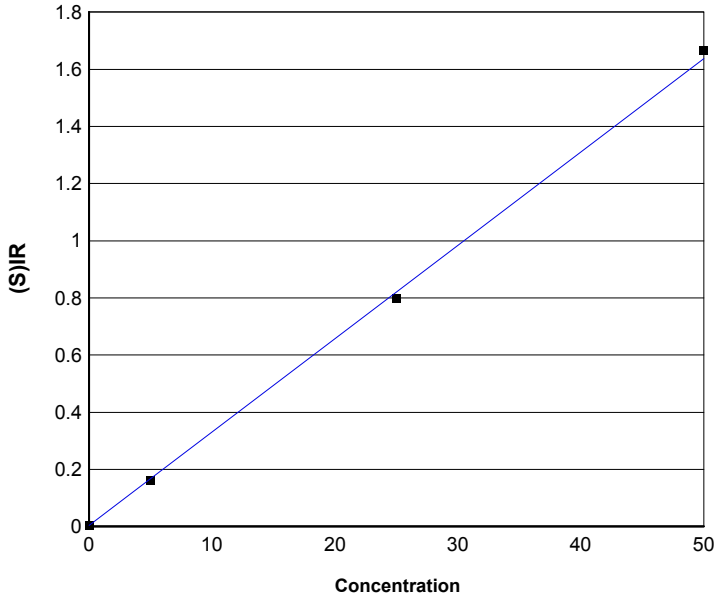
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.000085950	0.000085950	0.00000	0.00016990	0.00010188	1
IC4	50.000	50.588	0.58799	1.1760	3.1782	0.13609	1
IC2	5.0000	4.9661	-0.033939	-0.67878	0.31214	0.0022289	1
IC3	25.000	24.446	-0.55405	-2.2162	1.5359	0.010655	1



Element Name:	Fe
Element Wavelength:	Fe 271.441 nm
Concentration Units:	ppm
Date of Calibration:	12/19/2012 2:09:33PM
Date of Fit:	12/19/2012 2:09:33PM
Type of Fit:	Linear
Correlation:	0.99988
A0 (Offset):	0.000059759
A1 (Gain):	0.0060412
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

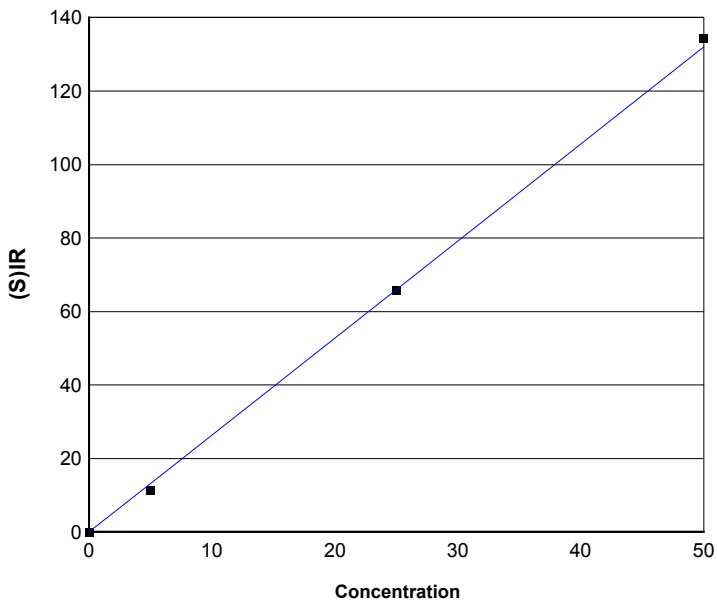
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.00015433	0.00015433	0.00000	0.000060691	0.00048837	1
IC4	50.000	50.601	0.60055	1.2011	0.30575	0.012553	1
IC2	5.0000	4.8822	-0.11784	-2.3568	0.029554	0.000064278	1
IC3	25.000	24.517	-0.48271	-1.9308	0.14817	0.0016520	1



Element Name:	K
Element Wavelength:	K 766.490 nm
Concentration Units:	ppm
Date of Calibration:	12/19/2012 2:09:34PM
Date of Fit:	12/19/2012 2:09:34PM
Type of Fit:	Linear
Correlation:	0.99976
A0 (Offset):	0.0035235
A1 (Gain):	0.032692
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

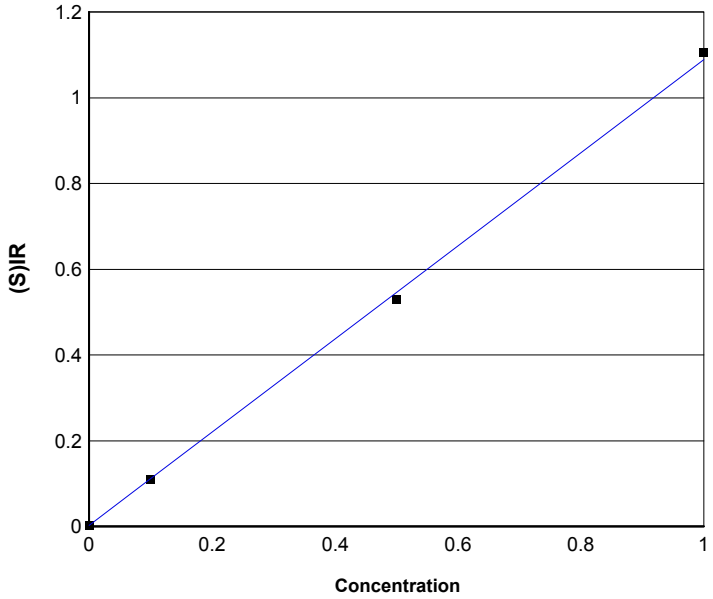
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.00021323	0.00021323	0.00000	0.0035304	0.0000069380	1
IC4	50.000	50.846	0.84559	1.6912	1.6658	0.074277	1
IC2	5.0000	4.8392	-0.16084	-3.2169	0.16172	0.00037643	1
IC3	25.000	24.315	-0.68475	-2.7390	0.79843	0.0070643	1



Element Name:	K
Element Wavelength:	K 766.490 nm
Concentration Units:	ppm
Date of Calibration:	12/19/2012 2:09:34PM
Date of Fit:	12/19/2012 2:09:34PM
Type of Fit:	Linear
Correlation:	0.99928
A0 (Offset):	0.0036664
A1 (Gain):	2.6397
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

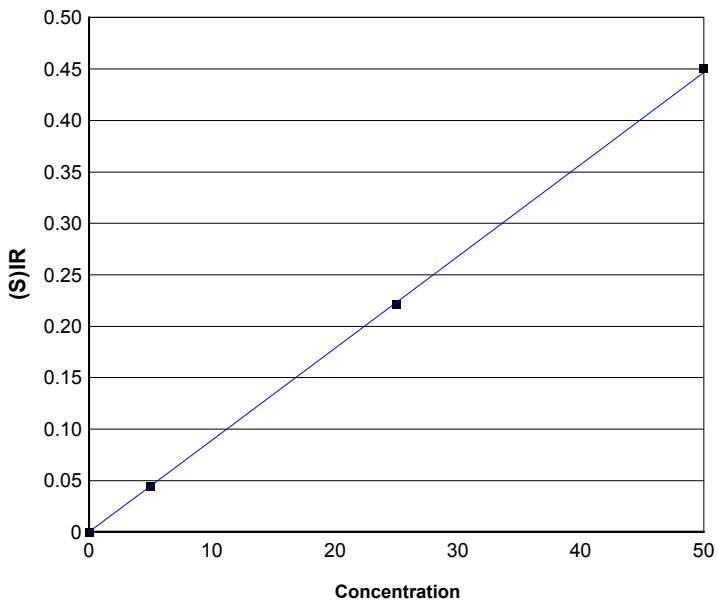
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.00065286	0.00065286	0.00000	0.0053898	0.000063949	1
IC4	50.000	50.830	0.83005	1.6601	134.18	5.5306	1
IC2	5.0000	4.2877	-0.71232	-14.246	11.322	0.076430	1
IC3	25.000	24.882	-0.11773	-0.47093	65.686	0.29689	1



Element Name:	Li
Element Wavelength:	Li 670.784 nm
Concentration Units:	ppm
Date of Calibration:	12/19/2012 2:09:34PM
Date of Fit:	12/19/2012 2:09:34PM
Type of Fit:	Linear
Correlation:	0.99978
A0 (Offset):	0.0031607
A1 (Gain):	1.0857
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

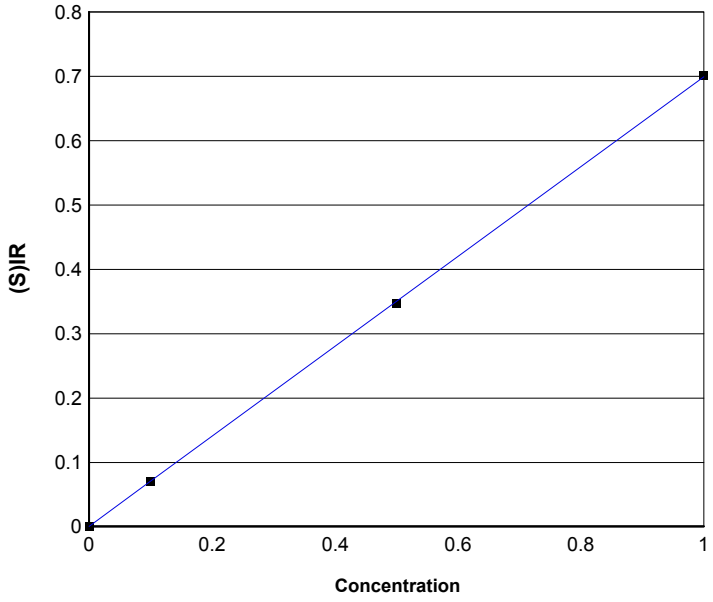
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000030646	0.0000030646	0.00000	0.0031640	0.0013244	1
IC2	0.10000	0.098205	-0.0017952	-1.7952	0.10978	0.0017267	1
IC3	0.50000	0.48551	-0.014489	-2.8979	0.53029	0.0057366	1
IC4	1.0000	1.0163	0.016284	1.6284	1.1066	0.050950	1



Element Name:	Mg
Element Wavelength:	Mg 279.079 nm
Concentration Units:	ppm
Date of Calibration:	12/19/2012 2:09:34PM
Date of Fit:	12/19/2012 2:09:34PM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	0.000014304
A1 (Gain):	0.0089362
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

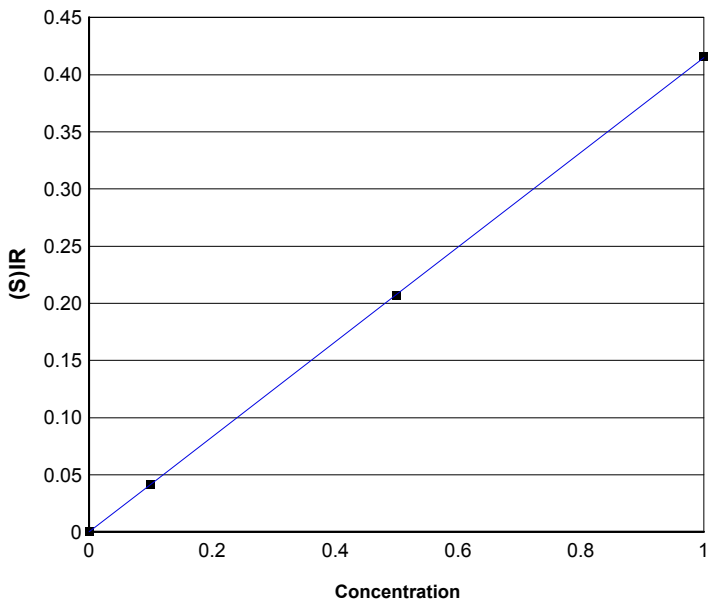
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.000094891	0.000094891	0.00000	0.000015152	0.000030718	1
IC4	50.000	50.378	0.37773	0.75546	0.45020	0.00077593	1
IC2	5.0000	4.9286	-0.071398	-1.4280	0.044057	0.00033108	1
IC3	25.000	24.694	-0.30633	-1.2253	0.22068	0.00068300	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	12/19/2012 2:09:34PM
Date of Fit:	12/19/2012 2:09:34PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00047551
A1 (Gain):	0.69901
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

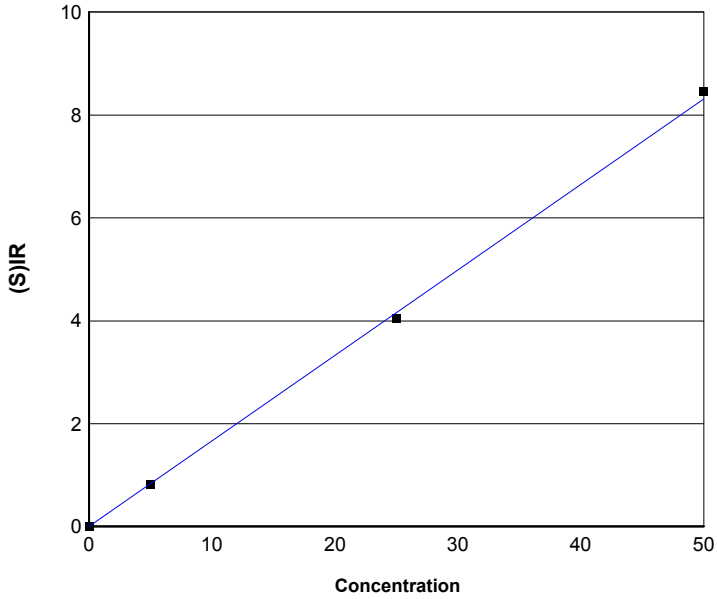
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000302	0.0000000302	0.00000	0.00047553	0.000047548	1
IC4	1.0000	1.0031	0.0031004	0.31004	0.70165	0.0018803	1
IC2	0.10000	0.10035	0.00034985	0.34985	0.070621	0.00055221	1
IC3	0.50000	0.49655	-0.0034502	-0.69004	0.34757	0.0015144	1



Element Name:	Mo
Element Wavelength:	Mo 202.030 nm
Concentration Units:	ppm
Date of Calibration:	12/19/2012 2:09:34PM
Date of Fit:	12/19/2012 2:09:34PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00014437
A1 (Gain):	0.41496
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

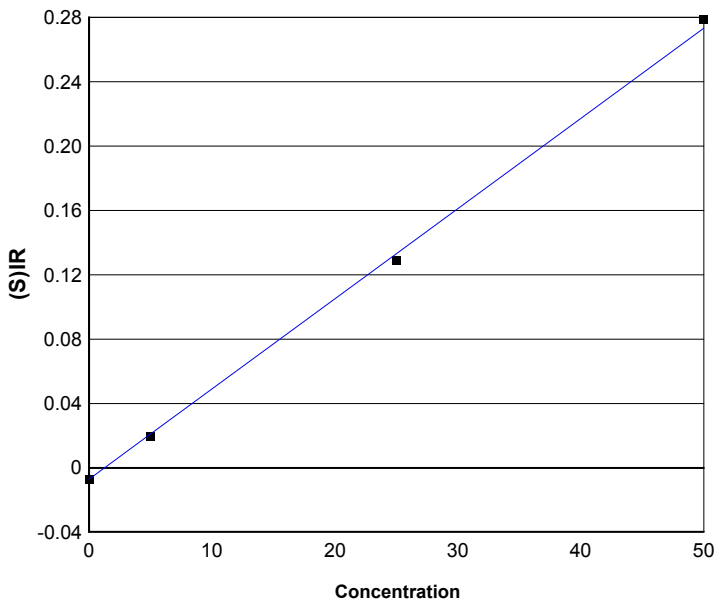
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000003202	-0.0000003202	0.00000	0.00014424	0.0000016172	1
IC4	1.0000	1.0012	0.0012070	0.12070	0.41560	0.00022806	1
IC2	0.10000	0.10055	0.00055115	0.55115	0.041869	0.000068033	1
IC3	0.50000	0.49824	-0.0017582	-0.35164	0.20689	0.0024518	1



Element Name:	Na
Element Wavelength:	Na 589.592 nm
Concentration Units:	ppm
Date of Calibration:	12/19/2012 2:09:34PM
Date of Fit:	12/19/2012 2:09:34PM
Type of Fit:	Linear
Correlation:	0.99977
A0 (Offset):	0.0049081
A1 (Gain):	0.16618
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

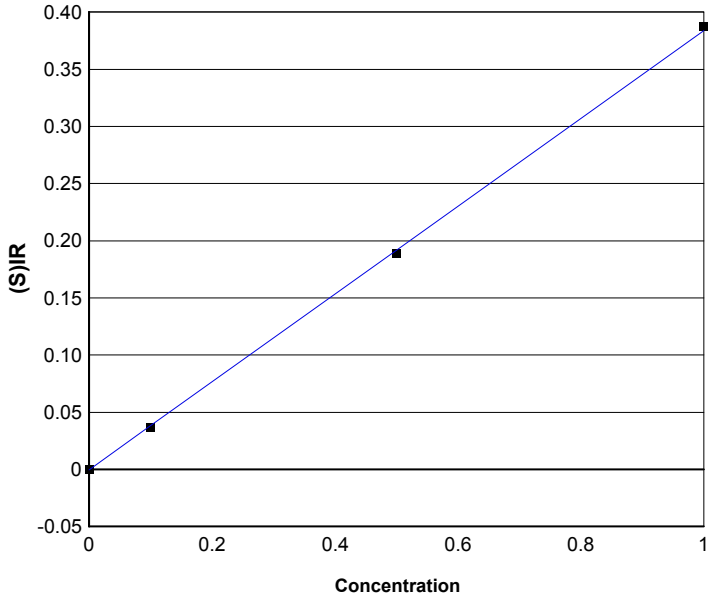
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.00016413	0.00016413	0.00000	0.0049354	0.00050979	1
IC4	50.000	50.824	0.82356	1.6471	8.4506	0.37047	1
IC2	5.0000	4.8978	-0.10221	-2.0443	0.81881	0.010842	1
IC3	25.000	24.279	-0.72134	-2.8854	4.0395	0.028525	1



Element Name:	Na
Element Wavelength:	Na 818.326 nm
Concentration Units:	ppm
Date of Calibration:	12/19/2012 2:09:34PM
Date of Fit:	12/19/2012 2:09:34PM
Type of Fit:	Linear
Correlation:	0.99967
A0 (Offset):	-0.0072446
A1 (Gain):	0.0056112
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

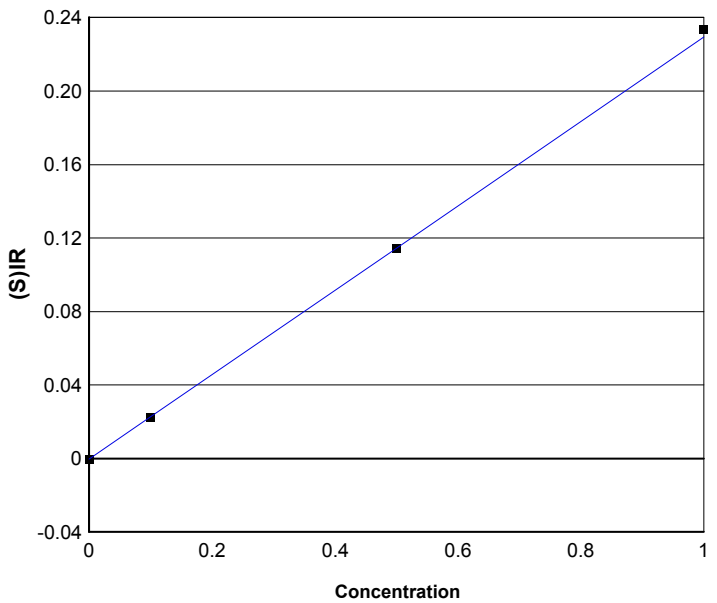
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.00029717	0.00029717	0.00000	-0.0072430	0.00040829	1
IC4	50.000	50.985	0.98467	1.9693	0.27884	0.012493	1
IC2	5.0000	4.7516	-0.24838	-4.9677	0.019418	0.000034279	1
IC3	25.000	24.264	-0.73629	-2.9452	0.12890	0.00069753	1



Element Name:	Ni
Element Wavelength:	Ni 231.604 nm
Concentration Units:	ppm
Date of Calibration:	12/19/2012 2:09:34PM
Date of Fit:	12/19/2012 2:09:34PM
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	-0.00027514
A1 (Gain):	0.38421
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

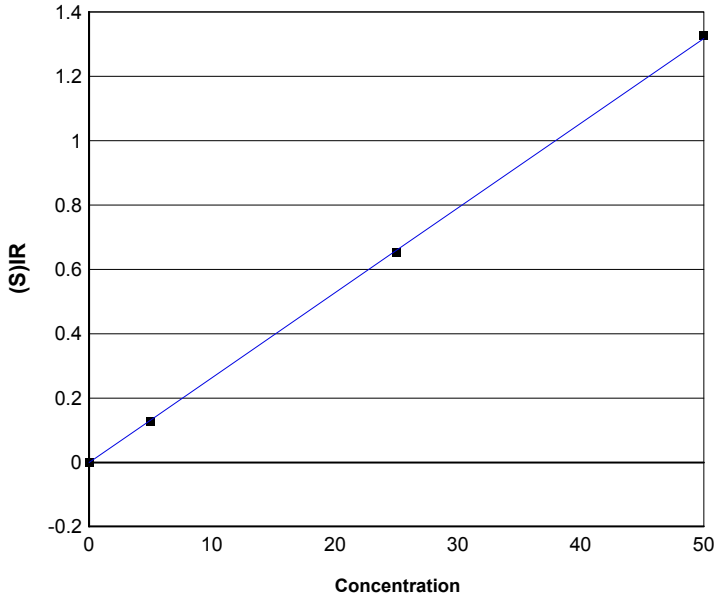
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000030779	0.0000030779	0.00000	-0.00027396	0.000022702	1
IC4	1.0000	1.0092	0.0091984	0.91984	0.38723	0.00036973	1
IC2	0.10000	0.097302	-0.0026975	-2.6975	0.037086	0.00019821	1
IC3	0.50000	0.49350	-0.0065009	-1.3002	0.18921	0.0016935	1



Element Name:	Pb
Element Wavelength:	Pb 220.353 nm
Concentration Units:	ppm
Date of Calibration:	12/19/2012 2:09:34PM
Date of Fit:	12/19/2012 2:09:34PM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	-0.00036114
A1 (Gain):	0.22971
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

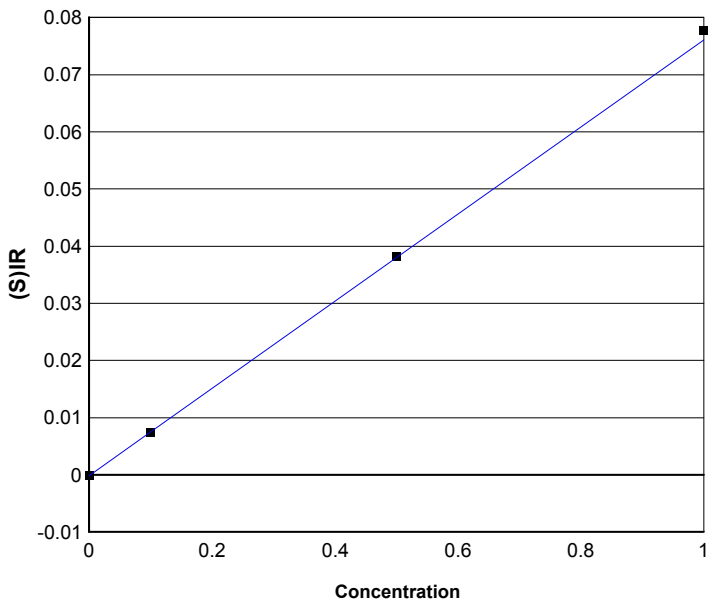
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000026372	0.0000026372	0.00000	-0.00036053	0.000033987	1
IC4	1.0000	1.0077	0.0077492	0.77492	0.23325	0.00049513	1
IC2	0.10000	0.097672	-0.0023278	-2.3278	0.022287	0.00019077	1
IC3	0.50000	0.49458	-0.0054214	-1.0843	0.11431	0.0015508	1



Element Name:	S
Element Wavelength:	S 182.034 nm
Concentration Units:	ppm
Date of Calibration:	12/19/2012 2:09:34PM
Date of Fit:	12/19/2012 2:09:34PM
Type of Fit:	Linear
Correlation:	0.9999
A0 (Offset):	-0.0005253
A1 (Gain):	0.02637
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

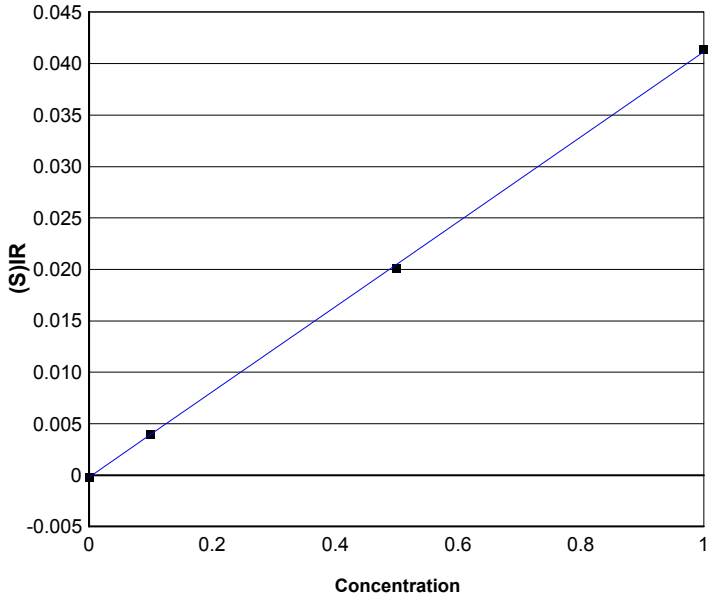
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.0000	0.0001291	0.0001291	0.0000	-0.0005219	0.00002962	1
IC2	5.000	4.890	-0.1102	-2.203	0.1284	0.0003887	1
IC3	25.00	24.70	-0.3000	-1.200	0.6509	0.005840	1
IC4	50.00	50.41	0.4102	0.8203	1.329	0.0006338	1



Element Name:	Sb
Element Wavelength:	Sb 206.833 nm
Concentration Units:	ppm
Date of Calibration:	12/19/2012 2:09:34PM
Date of Fit:	12/19/2012 2:09:34PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	-0.00015090
A1 (Gain):	0.076263
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

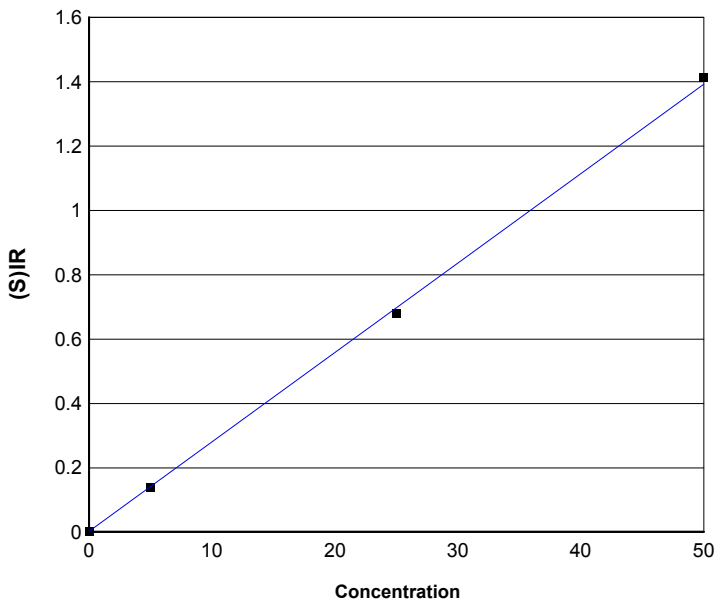
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000018218	0.0000018218	0.00000	-0.00015076	0.000066709	1
IC4	1.0000	1.0064	0.0063663	0.63663	0.077765	0.00012751	1
IC2	0.10000	0.098519	-0.0014814	-1.4814	0.0074791	0.000027538	1
IC3	0.50000	0.49512	-0.0048849	-0.97697	0.038192	0.00039156	1



Element Name:	Se
Element Wavelength:	Se 196.090 nm
Concentration Units:	ppm
Date of Calibration:	12/19/2012 2:09:34PM
Date of Fit:	12/19/2012 2:09:34PM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	-0.00019235
A1 (Gain):	0.041332
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

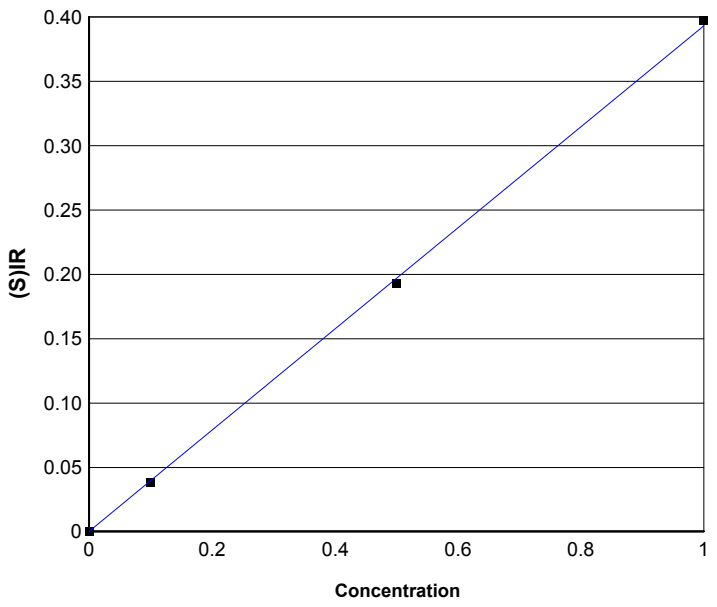
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000011207	0.0000011207	0.00000	-0.00019230	0.00013223	1
IC4	1.0000	1.0083	0.0083193	0.83193	0.041411	0.000083454	1
IC2	0.10000	0.099639	-0.00036099	-0.36099	0.0039187	0.000064127	1
IC3	0.50000	0.49204	-0.0079583	-1.5917	0.020109	0.00023174	1



Element Name:	Si
Element Wavelength:	Si 288.158 nm
Concentration Units:	ppm
Date of Calibration:	12/19/2012 2:09:34PM
Date of Fit:	12/19/2012 2:09:34PM
Type of Fit:	Linear
Correlation:	0.99980
A0 (Offset):	0.0018025
A1 (Gain):	0.027823
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

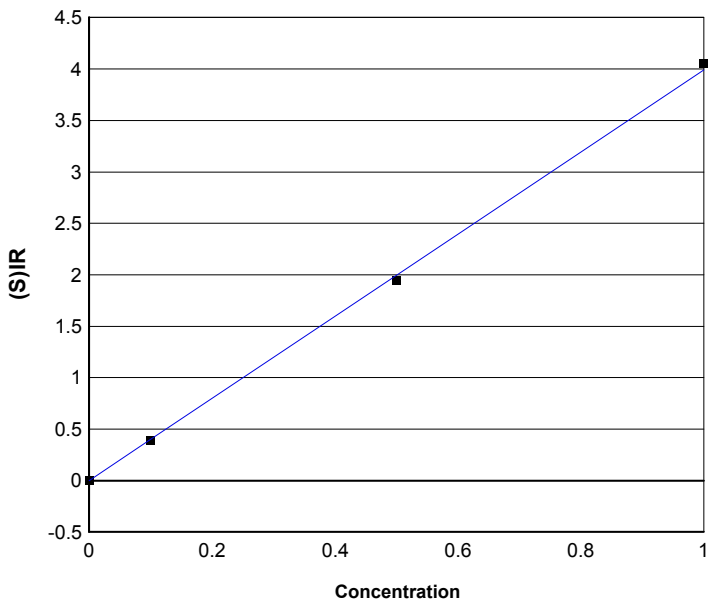
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.00016413	0.00016413	0.00000	0.0018071	0.00044226	1
IC2	5.0000	4.8907	-0.10933	-2.1866	0.13793	0.0020724	1
IC3	25.000	24.343	-0.65733	-2.6293	0.67938	0.0075144	1
IC4	50.000	50.767	0.76666	1.5333	1.4149	0.062349	1



Element Name:	Sn
Element Wavelength:	Sn 189.989 nm
Concentration Units:	ppm
Date of Calibration:	12/19/2012 2:09:34PM
Date of Fit:	12/19/2012 2:09:34PM
Type of Fit:	Linear
Correlation:	0.99985
A0 (Offset):	0.00023080
A1 (Gain):	0.39322
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

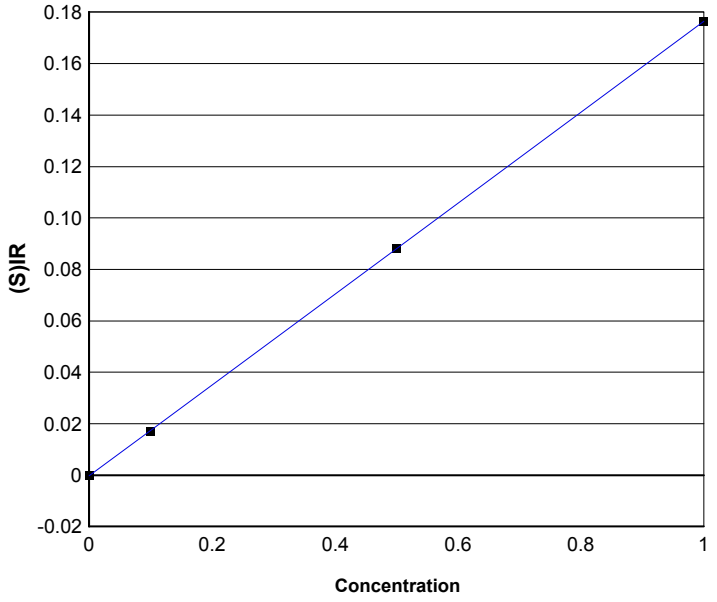
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000043434	0.0000043434	0.00000	0.00023251	0.000067485	1
IC4	1.0000	1.0132	0.013156	1.3156	0.39758	0.00026464	1
IC2	0.10000	0.096215	-0.0037847	-3.7847	0.037960	0.000086865	1
IC3	0.50000	0.49063	-0.0093717	-1.8743	0.19263	0.00088048	1



Element Name:	Sr
Element Wavelength:	Sr 407.771 nm
Concentration Units:	ppm
Date of Calibration:	12/19/2012 2:09:34PM
Date of Fit:	12/19/2012 2:09:34PM
Type of Fit:	Linear
Correlation:	0.99981
A0 (Offset):	-0.00077816
A1 (Gain):	3.9934
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

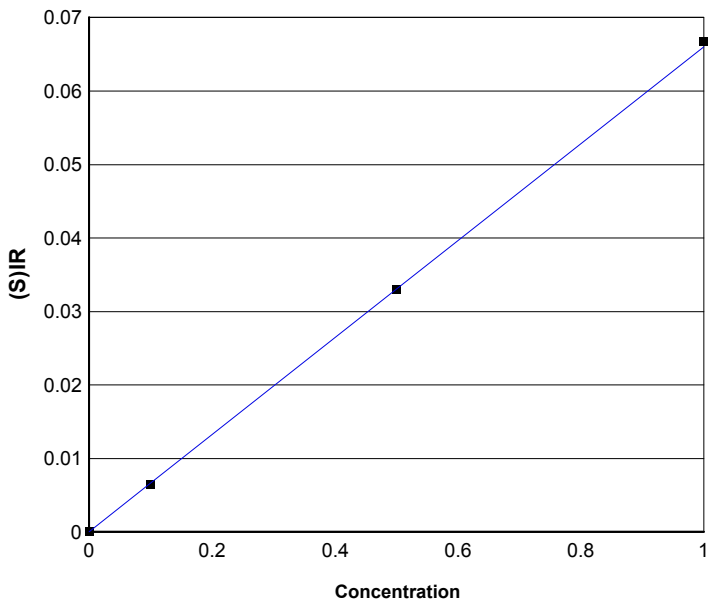
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000027302	0.0000027302	0.00000	-0.00076726	0.00034506	1
IC2	0.10000	0.098435	-0.0015649	-1.5649	0.39231	0.0048438	1
IC3	0.50000	0.48678	-0.013218	-2.6435	1.9431	0.016444	1
IC4	1.0000	1.0148	0.014783	1.4783	4.0516	0.18147	1



Element Name:	Ti
Element Wavelength:	Ti 334.904 nm
Concentration Units:	ppm
Date of Calibration:	12/19/2012 2:09:34PM
Date of Fit:	12/19/2012 2:09:34PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00025827
A1 (Gain):	0.17662
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

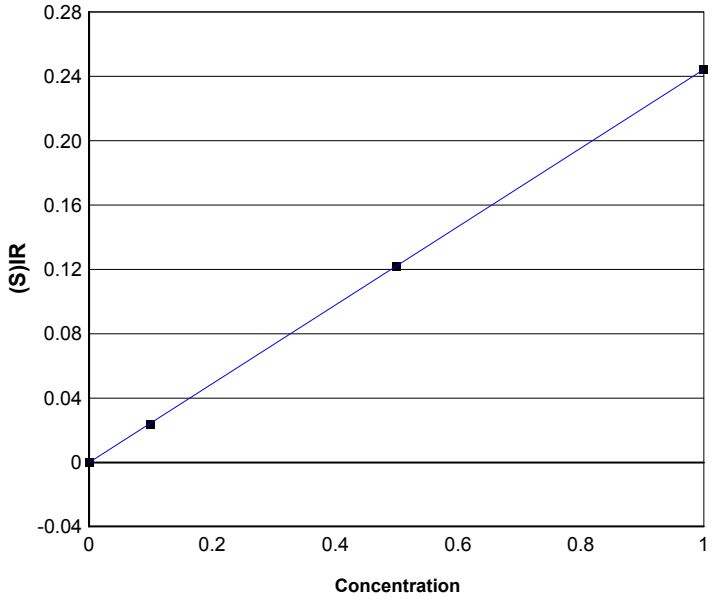
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000012308	0.0000012308	0.00000	-0.00025805	0.000060630	1
IC4	1.0000	1.0007	0.00067197	0.067197	0.17648	0.00081543	1
IC2	0.10000	0.098546	-0.0014545	-1.4545	0.017147	0.00013946	1
IC3	0.50000	0.50078	0.00078249	0.15650	0.088192	0.000051237	1



Element Name:	Tl
Element Wavelength:	Tl 190.856 nm
Concentration Units:	ppm
Date of Calibration:	12/19/2012 2:09:34PM
Date of Fit:	12/19/2012 2:09:34PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.000047878
A1 (Gain):	0.065960
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

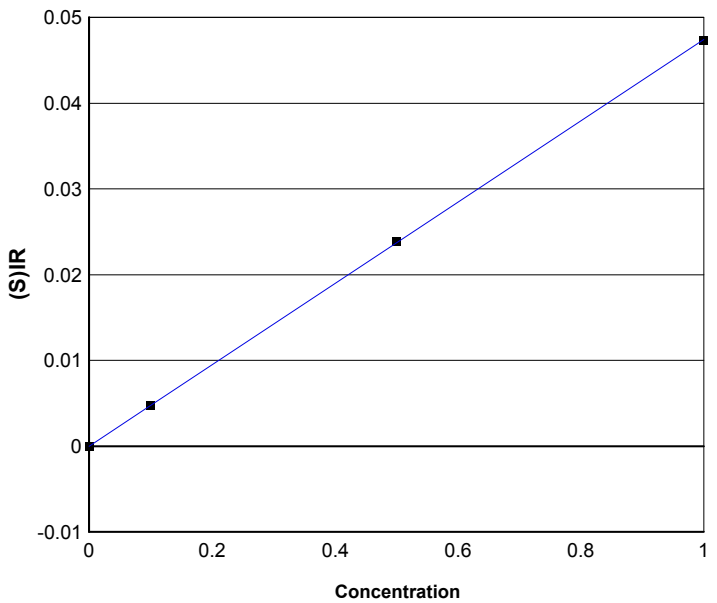
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000025640	0.0000025640	0.00000	0.000048047	0.000060933	1
IC4	1.0000	1.0048	0.0048460	0.48460	0.066668	0.00026991	1
IC2	0.10000	0.097401	-0.0025993	-2.5993	0.0065065	0.00010072	1
IC3	0.50000	0.49775	-0.0022467	-0.44934	0.033050	0.000080950	1



Element Name:	V
Element Wavelength:	V 292.402 nm
Concentration Units:	ppm
Date of Calibration:	12/19/2012 2:09:34PM
Date of Fit:	12/19/2012 2:09:34PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00013648
A1 (Gain):	0.24459
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000017832	0.0000017832	0.00000	-0.00013605	0.00012275	1
IC4	1.0000	1.0023	0.0023058	0.23058	0.24400	0.00055841	1
IC2	0.10000	0.098059	-0.0019407	-1.9407	0.023746	0.00021909	1
IC3	0.50000	0.49963	-0.00036504	-0.073008	0.12156	0.00017576	1



Element Name:	Zn
Element Wavelength:	Zn 206.200 nm
Concentration Units:	ppm
Date of Calibration:	12/19/2012 2:09:34PM
Date of Fit:	12/19/2012 2:09:34PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.0000042014
A1 (Gain):	0.047458
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000001293	0.0000001293	0.00000	-0.0000041952	0.000016555	1
IC4	1.0000	0.99727	-0.0027294	-0.27294	0.047277	0.00016503	1
IC2	0.10000	0.099497	-0.00050285	-0.50285	0.0047130	0.0000069375	1
IC3	0.50000	0.50323	0.0032323	0.64645	0.023854	0.0000078973	1

Sample Name: IC1 Acquired: 12/19/2012 14:00:45 Type: Cal
Method: ICAP1(v396) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00014**	**.00128**	**.00015**	**.00098**	**.00139**	**.00137**	**-.00012**	**.00586**	**.00084**	**-.00040**	**.00003**	**.00224**
Stddev	.00005	.00027	.00003	.00017	.00020	.00023	.00023	.00020	.00006	.00033	.00002	.00003
%RSD	33.018	21.355	17.669	17.800	14.611	16.701	185.70	3.3839	6.6200	82.029	59.381	1.4560
#1	-.00017	.00108	.00017	.00110	.00124	.00153	.00004	.00572	.00088	-.00063	.00005	.00221
#2	-.00011	.00147	.00013	.00086	.00153	.00121	-.00028	.00600	.00080	-.00017	.00002	.00226

Elem	Fe2599	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00017**	**.00006**	**.00353**	**.00539**	**.00316**	**.00002**	**.00048**	**.00014**	**.00494**	**-.00724**	**-.00027**	**-.00036**
Stddev	.00010	.00049	.00001	.00006	.00132	.00003	.00005	.00000	.00051	.00041	.00002	.00003
%RSD	59.967	804.68	.19652	1.1865	41.859	202.74	9.9991	1.1212	10.329	5.6370	8.2866	9.4269
#1	.00024	-.00028	.00353	.00543	.00223	-.00001	.00044	.00014	.00457	-.00753	-.00029	-.00038
#2	.00010	.00041	.00354	.00534	.00410	.00004	.00051	.00015	.00530	-.00695	-.00026	-.00034

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0005**	**-.00015**	**-.00019**	**.00181**	**.00023**	**-.00077**	**-.00026**	**.00005**	**-.00014**	**.00000**
Stddev	.0000	.00007	.00013	.00044	.00007	.00035	.00006	.00006	.00012	.0000
%RSD	5.675	44.248	68.764	24.474	29.024	44.973	23.496	126.82	90.228	394.61
#1	-.0005	-.00010	-.00010	.00149	.00018	-.00101	-.00030	.00009	-.00022	-.00002
#2	-.0005	-.00020	-.00029	.00212	.00028	-.00052	-.00022	.00000	-.00005	.00001

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4233.1**	**7071.3**	**65945.**	**10547.**
Stddev	112.3	182.9	29.	20.
%RSD	2.6530	2.5863	.04430	.18531
#1	4153.7	6942.0	65925.	10533.
#2	4312.5	7200.6	65966.	10561.

Sample Name: IC2 Acquired: 12/19/2012 14:03:02 Type: Cal
Method: ICAP1(v396) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.01143	.12049	.00609	.03160	.40129	.70851	.38102	.78427	.11777	.17660	.01013	.02860	.31214
Stddev	.00011	.00124	.00001	.00015	.00401	.00658	.00382	.01023	.00093	.00048	.00012	.00019	.00223
%RSD	.92725	1.0320	.16973	.48640	1.0000	.92822	1.0015	1.3047	.78926	.27103	1.2214	.67082	.71406
#1	.01151	.11961	.00608	.03149	.39846	.71316	.37832	.77704	.11711	.17626	.01021	.02874	.31057
#2	.01136	.12137	.00610	.03171	.40413	.70386	.38372	.79151	.11843	.17694	.01004	.02846	.31372

Elem	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Na8183	Ni2316	Pb2203	S_1820	Sb2068
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.02955	.16172	11.322	.10978	.04406	.07062	.04187	.81881	.01942	.03709	.02229	.1284	.00748
Stddev	.00006	.00038	.076	.00173	.00033	.00055	.00007	.01084	.00003	.00020	.00019	.0004	.00003
%RSD	.21750	.23276	.67505	1.5728	.75147	.78194	.16249	1.3241	.17653	.53446	.85596	.3027	.36820
#1	.02951	.16146	11.268	.10856	.04429	.07101	.04182	.81114	.01939	.03695	.02215	.1282	.00746
#2	.02960	.16199	11.376	.11101	.04382	.07023	.04192	.82647	.01944	.03723	.02242	.1287	.00750

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00392	.13793	.03796	.39231	.01715	.00651	.02375	.00471
Stddev	.00006	.00207	.00009	.00484	.00014	.00010	.00022	.00001
%RSD	1.6364	1.5025	.22883	1.2347	.81329	1.5480	.92266	.14720
#1	.00396	.13647	.03790	.38889	.01725	.00644	.02390	.00472
#2	.00387	.13940	.03802	.39574	.01705	.00658	.02359	.00471

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4255.9	7252.0	66794.	10742.
Stddev	18.9	42.2	417.	155.
%RSD	.44360	.58206	.62448	1.4472
#1	4269.3	7281.8	66499.	10852.
#2	4242.6	7222.1	67089.	10632.

Sample Name: IC3 Acquired: 12/19/2012 14:05:11 Type: Cal
Method: ICAP1(v396) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.05868	.59356	.03027	.15448	1.9987	3.5129	1.8689	3.8698	.58210	.89461	.05077	.13494	1.5359
Stddev	.00015	.00670	.00024	.00145	.0185	.0155	.0177	.0363	.00610	.00891	.00003	.00026	.0107
%RSD	.25630	1.1282	.78453	.94184	.92552	.44155	.94985	.93787	1.0471	.99649	.06737	.19166	.69370
#1	.05879	.58882	.03043	.15551	1.9856	3.5239	1.8563	3.8442	.58641	.90091	.05074	.13512	1.5284
#2	.05857	.59829	.03010	.15346	2.0118	3.5019	1.8814	3.8955	.57779	.88830	.05079	.13476	1.5435

Elem	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Na8183	Ni2316	Pb2203	S_1820	Sb2068
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.14817	.79843	65.686	.53029	.22068	.34757	.20689	4.0395	.12890	.18921	.11431	.6509	.03819
Stddev	.00165	.00706	.297	.00574	.00068	.00151	.00245	.0285	.00070	.00169	.00155	.0058	.00039
%RSD	1.1149	.88477	.45199	1.0818	.30950	.43572	1.1850	.70617	.54112	.89502	1.3567	.8972	1.0253
#1	.14700	.79344	65.476	.52624	.22117	.34864	.20863	4.0193	.12841	.19041	.11541	.6550	.03847
#2	.14934	.80343	65.896	.53435	.22020	.34650	.20516	4.0596	.12940	.18802	.11321	.6468	.03791

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.02011	.67938	.19263	1.9431	.08819	.03305	.12156	.02385
Stddev	.00023	.00751	.00088	.0164	.00005	.00008	.00018	.00001
%RSD	1.1525	1.1061	.45707	.84624	.05810	.24493	.14459	.03311
#1	.02027	.67406	.19326	1.9315	.08816	.03311	.12144	.02385
#2	.01994	.68469	.19201	1.9548	.08823	.03299	.12168	.02386

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3997.4	7100.0	64442.	10588.
Stddev	23.4	54.1	3.	48.
%RSD	.58507	.76164	.00394	.45288
#1	3980.9	7061.8	64440.	10622.
#2	4013.9	7138.2	64444.	10554.

Sample Name: IC4 Acquired: 12/19/2012 14:07:26 Type: Cal
Method: ICAP1(v396) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.12010**	**1.2424**	**.06162**	**.31140**	**4.1803**	**7.0001**	**3.8737**	**8.0622**	**1.1773**	**1.8335**	**.10119**	**.26829**	**3.1782**
Stddev	.00000	.0543	.00019	.00059	.1860	.0076	.1781	.3552	.0007	.0015	.00029	.00089	.1361
%RSD	.00102	4.3686	.30957	.19023	4.4498	.10870	4.5966	4.4057	.05793	.08065	.28780	.33188	4.2820
#1	.12010	1.2808	.06175	.31098	4.3119	7.0055	3.9996	8.3133	1.1768	1.8325	.10140	.26892	3.2745
#2	.12010	1.2040	.06148	.31182	4.0488	6.9948	3.7478	7.8110	1.1777	1.8345	.10099	.26766	3.0820

Elem	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Na8183	Ni2316	Pb2203	S_1820	Sb2068
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.30575**	**1.6658**	**134.18**	**1.1066**	**.45020**	**.70165**	**.41560**	**8.4506**	**.27884**	**.38723**	**.23325**	**1.329**	**.07776**
Stddev	.01255	.0743	5.53	.0510	.00078	.00188	.00023	.3705	.01249	.00037	.00050	.001	.00013
%RSD	4.1056	4.4591	4.1217	4.6044	.17235	.26798	.05487	4.3840	4.4805	.09548	.21228	.0477	.16397
#1	.31462	1.7183	138.09	1.1426	.45075	.70298	.41576	8.7126	.28767	.38749	.23290	1.328	.07786
#2	.29687	1.6132	130.27	1.0705	.44965	.70032	.41544	8.1886	.27001	.38697	.23360	1.329	.07767

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.04141**	**1.4149**	**.39758**	**4.0516**	**.17648**	**.06667**	**.24400**	**.04728**
Stddev	.00008	.0624	.00026	.1815	.00082	.00027	.00056	.00017
%RSD	.20153	4.4067	.06656	4.4789	.46204	.40486	.22886	.34908
#1	.04135	1.4589	.39740	4.1800	.17706	.06648	.24439	.04739
#2	.04147	1.3708	.39777	3.9233	.17591	.06686	.24360	.04716

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3772.8**	**6907.0**	**62760.**	**10122.**
Stddev	2.8	8.5	129.	367.
%RSD	.07507	.12362	.20555	3.6291
#1	3774.8	6913.0	62668.	9861.8
#2	3770.8	6901.0	62851.	10381.

Sample Name: ICV Acquired: 12/19/2012 14:09:39 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.37286	17.973	.37133	.37418	.38313	.36671	18.361	.37366	.36722	.37773	.37630	17.889
Stddev	.00133	.079	.00271	.00595	.00063	.00234	.102	.00565	.00442	.00147	.00108	.031
%RSD	.35718	.44125	.72892	1.5910	.16527	.63750	.55662	1.5115	1.2044	.39049	.28692	.17515
#1	.37381	17.917	.36942	.36997	.38357	.36506	18.289	.36967	.36409	.37877	.37706	17.867
#2	.37192	18.029	.37324	.37839	.38268	.36837	18.433	.37766	.37034	.37668	.37553	17.911
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.271	W 17.510	.36572	18.080	.37660	.37489	18.240	.36808	.37219	18.38	.38135	.37205
Stddev	.154	.277	.00084	.027	.00153	.00504	.092	.00529	.00430	.27	.00453	.00402
%RSD	.84377	1.5798	.22923	.15110	.40573	1.3433	.50301	1.4377	1.1551	1.464	1.1875	1.0803
#1	18.162	17.314	.36513	18.099	.37768	.37133	18.175	.36433	.36915	18.19	.37815	.36921
#2	18.380	17.705	.36632	18.060	.37552	.37845	18.305	.37182	.37523	18.57	.38455	.37489
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		18.750										
Range		-5.0000%										

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.267	.38484	.36600	.37805	.37103	.37424	.38039
Stddev	.183	.00527	.00270	.00022	.00292	.00053	.00026
%RSD	1.0015	1.3700	.73736	.05787	.78650	.14197	.06764
#1	18.137	.38111	.36409	.37821	.36897	.37462	.38057
#2	18.396	.38856	.36791	.37790	.37310	.37387	.38021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4001.4	7036.5	63832.	10490.
Stddev	38.4	76.7	65.	101.
%RSD	.95992	1.0895	.10237	.96341
#1	4028.6	7090.7	63786.	10561.
#2	3974.3	6982.3	63878.	10418.

Sample Name: ICB-1100372 Acquired: 12/19/2012 14:11:48 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00072	.00054	.00020	.00060	.00006	.00001	.00408	-.00004	-.00002	-.00060	.00087	.00220	.01314
Stddev	.00072	.00063	.00224	.00046	.00003	.00003	.00549	.00003	.00000	.00032	.00000	.00139	.04110
%RSD	100.53	116.02	1119.9	76.624	40.930	220.24	134.42	71.495	16.837	54.411	.15651	63.176	312.91
#1	-.00123	.00099	.00179	.00093	.00004	-.00001	.00797	-.00005	-.00002	-.00082	.00087	.00318	.04220
#2	-.00021	.00010	-.00139	.00028	.00008	.00004	.00020	-.00002	-.00002	-.00037	.00087	.00121	-.01593
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00456	.00031	.00425	.00014	.00017	.00767	-.00027	.00176	.0022	-.00033	.00006	.00865	-.00023
Stddev	.00003	.00118	.00070	.00009	.00011	.00300	.00047	.00048	.0008	.00015	.00093	.00070	.00007
%RSD	.63099	375.41	16.544	66.688	67.565	39.182	171.43	27.342	36.49	45.770	1450.7	8.0608	28.708
#1	.00453	-.00052	.00475	.00007	.00025	.00979	.00006	.00142	.0027	-.00022	.00073	.00915	-.00028
#2	.00458	.00115	.00376	.00020	.00009	.00554	-.00061	.00210	.0016	-.00044	-.00060	.00816	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00012	-.00057	-.00207	.00010	.00052
Stddev	.00000	.00022	.00031	.00011	.00049
%RSD	.86735	38.488	14.959	114.06	94.264
#1	-.00012	-.00041	-.00185	.00018	.00087
#2	-.00012	-.00072	-.00229	.00002	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4306.6	7202.3	66018.	10519.
Stddev	9.2	22.0	22.	62.
%RSD	.21397	.30564	.03335	.59074
#1	4313.1	7217.9	66034.	10475.
#2	4300.1	7186.8	66003.	10562.

Sample Name: CRI-1107665 Acquired: 12/19/2012 14:14:05 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00244	.21275	.00952	.02448	.00215	.00207	.55281	.00110	.00397	.00387	.01060	.05109
Stddev	.00019	.00454	.00081	.00019	.00003	.00008	.00101	.00019	.00011	.00000	.00012	.00145
%RSD	7.8144	2.1326	8.5462	.77500	1.3482	3.9738	.18291	17.421	2.7298	.12881	1.1232	2.8429
#1	.00258	.20954	.00894	.02434	.00217	.00201	.55209	.00124	.00405	.00388	.01051	.05007
#2	.00231	.21596	.01009	.02461	.00213	.00213	.55352	.00097	.00389	.00387	.01068	.05212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50714	.38853	.03122	.20575	.00297	.01104	.97654	.00933	.00442	F .0569	.02221	.01479
Stddev	.01975	.00101	.00020	.00289	.00010	.00015	.01466	.00022	.00111	.0000	.00095	.00051
%RSD	3.8934	.25894	.62939	1.4022	3.3728	1.3677	1.5015	2.3447	25.085	.0150	4.2636	3.4768
#1	.52111	.38782	.03136	.20371	.00290	.01093	.96617	.00918	.00364	.0569	.02154	.01515
#2	.49318	.38925	.03109	.20779	.00304	.01115	.98691	.00948	.00521	.0569	.02288	.01443
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value										.0030		
Range										50.00%		

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.52075	W .00559	.00539	.00533	.01705	.00457	.01135
Stddev	.00659	.00013	.00000	.00041	.00096	.00004	.00072
%RSD	1.2661	2.3850	.02936	7.7485	5.6428	.90422	6.3652
#1	.51609	.00549	.00539	.00562	.01637	.00459	.01186
#2	.52542	.00568	.00539	.00504	.01773	.00454	.01084
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		.01000					
Range		-30.000%					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4329.0	7264.9	67088.	10616.
Stddev	12.2	24.2	64.	69.
%RSD	.28101	.33344	.09595	.65137
#1	4320.4	7247.8	67134.	10665.
#2	4337.6	7282.0	67043.	10567.

Sample Name: ICSA-1101769 Acquired: 12/19/2012 14:16:21 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00101**	**480.17**	**.00650**	**.00032**	**.00042**	**-.00010**	**459.09**	**-.00082**	**-.00049**	**.00196**	**.00314**	**181.38**	**.00436**
Stddev	.00002	1.62	.00023	.00132	.00002	.00003	1.92	.00031	.00062	.00013	.00045	.82	.01981
%RSD	2.3461	.33761	3.5763	416.04	4.3064	34.741	.41881	38.257	124.69	6.6944	14.239	.44954	454.58
#1	-.00099	479.02	.00634	-.00061	.00043	-.00012	457.73	-.00104	-.00093	.00187	.00346	180.81	.01837
#2	-.00103	481.32	.00667	.00125	.00041	-.00007	460.45	-.00060	-.00006	.00205	.00282	181.96	-.00965
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00356**	**.00553**	**497.44**	**.00135**	**-.00029**	**-.00182**	**.00086**	**-.00240**	F **-.1405**	**-.00248**	**.00319**	**-.00664**	**.00033**
Stddev	.00004	.00054	4.24	.00010	.00012	.01592	.00125	.00566	.0150	.00276	.00165	.00398	.00077
%RSD	1.2333	9.6971	.85139	7.2602	40.386	876.83	144.70	236.10	10.67	111.11	51.634	59.941	235.36
#1	.00359	.00591	500.43	.00141	-.00021	-.01307	-.00002	-.00641	-.1511	-.00443	.00203	-.00946	.00087
#2	.00353	.00515	494.44	.00128	-.00037	.00944	.00175	.00161	-.1299	-.00053	.00436	-.00383	-.00022
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass
High Limit									.0060				
Low Limit									-.0060				

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00546**	**.00450**	**-.00198**	**.00082**	**.00121**
Stddev	.00001	.00050	.00053	.00028	.00012
%RSD	.24814	11.021	26.657	34.078	10.299
#1	.00545	.00415	-.00161	.00102	.00130
#2	.00547	.00485	-.00235	.00062	.00112
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3201.1**	**6269.1**	**57560.**	**10084.**
Stddev	3.5	5.7	459.	2.
%RSD	.10801	.09063	.79684	.01917
#1	3198.7	6265.0	57236.	10085.
#2	3203.6	6273.1	57885.	10083.

Sample Name: ICSAB-1086099 Acquired: 12/19/2012 14:18:47 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.22603	503.39	.10716	.00252	.50444	.50084	466.39	1.0315	.50329	.51902	.55712	92.586	.05308
Stddev	.00992	4.83	.00266	.00019	.00278	.00299	4.57	.0030	.00290	.02309	.02530	1.096	.01577
%RSD	4.3868	.95961	2.4835	7.4117	.55191	.59666	.97906	.28947	.57543	4.4490	4.5405	1.1842	29.718
#1	.21902	499.97	.10904	.00239	.50247	.49873	463.16	1.0336	.50534	.50270	.53923	91.810	.04193
#2	.23304	506.80	.10528	.00265	.50641	.50296	469.62	1.0294	.50125	.53535	.57501	93.361	.06423
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value													
Range													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01591	.52667	537.55	.49641	.00042	.03640	1.0027	.05158	F -.1304	.61824	.05348	1.0458	-.00045
Stddev	.00022	.00340	16.18	.02316	.00013	.00334	.0067	.00208	.0007	.00033	.00524	.0090	.00102
%RSD	1.4063	.64572	3.0095	4.6663	31.073	9.1867	.67059	4.0294	.5515	.05406	9.8052	.86368	228.37
#1	.01575	.52427	526.11	.48003	.00051	.03876	1.0074	.05011	-.1299	.61800	.05718	1.0522	-.00117
#2	.01607	.52908	548.99	.51279	.00033	.03404	.99792	.05305	-.1310	.61848	.04977	1.0395	.00028
Check ?	None	None	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	None
Value									.2000				
Range									-20.00%				

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	.50461	.00500	.09773	.51651	1.0298
Stddev	.00302	.00075	.00058	.02273	.0399
%RSD	.59761	14.946	.59173	4.3997	3.8744
#1	.50248	.00447	.09814	.50044	1.0016
#2	.50675	.00552	.09732	.53258	1.0581
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3235.7	6325.3	55470.	9974.6
Stddev	15.9	19.6	1907.	75.2
%RSD	.48984	.31056	3.4380	.75418
#1	3224.5	6311.4	56818.	10028.
#2	3246.9	6339.2	54121.	9921.4

Sample Name: CCV-1107667 Acquired: 12/19/2012 14:21:10 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49272	24.117	.49455	.49006	.48633	.48545	24.436	.49310	.48721	.49654	.49485	23.724	24.272
Stddev	.00210	.252	.00206	.00063	.00037	.00060	.203	.00038	.00116	.00240	.00108	.129	.073
%RSD	.42641	1.0429	.41752	.12910	.07658	.12448	.83032	.07662	.23844	.48257	.21898	.54240	.30077
#1	.49124	23.939	.49309	.48961	.48659	.48502	24.292	.49284	.48639	.49823	.49562	23.633	24.220
#2	.49421	24.295	.49601	.49051	.48607	.48588	24.579	.49337	.48803	.49484	.49409	23.815	24.324
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.469	.48349	23.816	.49523	.49378	24.099	.48901	.49236	24.47	.50219	.49229	24.009	.51398
Stddev	.256	.00090	.092	.00101	.00022	.029	.00060	.00059	.11	.00007	.00188	.040	.00331
%RSD	1.0442	.18538	.38725	.20354	.04535	.12107	.12284	.12059	.4576	.01374	.38135	.16678	.64341
#1	24.650	.48412	23.882	.49594	.49362	24.078	.48858	.49194	24.39	.50224	.49361	23.980	.51164
#2	24.289	.48285	23.751	.49452	.49393	24.120	.48943	.49278	24.55	.50214	.49096	24.037	.51632
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	.48588	.49953	.49229	.49017	.49497
Stddev	.00019	.00173	.00234	.00046	.00032
%RSD	.03994	.34727	.47518	.09394	.06506
#1	.48574	.49831	.49395	.49050	.49520
#2	.48602	.50076	.49064	.48985	.49474
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3985.5	7080.2	64372.	10536.
Stddev	10.0	4.2	82.	37.
%RSD	.25202	.05876	.12675	.34783
#1	3992.6	7083.2	64430.	10561.
#2	3978.4	7077.3	64314.	10510.

Sample Name: CCB-1100372 Acquired: 12/19/2012 14:23:22 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00025	.01925	-.00215	.00017	.00005	.00009	.01771	.00010	-.00007	-.00009	.00042	.00218	-.01918
Stddev	.00045	.00490	.00226	.00002	.00001	.00009	.00011	.00029	.00003	.00055	.00029	.00117	.04873
%RSD	181.21	25.460	105.30	14.273	13.614	102.68	.62434	281.64	50.349	610.31	68.979	53.474	254.09
#1	-.00056	.01578	-.00055	.00015	.00004	.00015	.01779	.00031	-.00004	.00030	.00022	.00136	-.05364
#2	.00007	.02271	-.00375	.00018	.00005	.00002	.01763	-.00010	-.00009	-.00048	.00063	.00300	.01528
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00281	.00100	.00661	-.00005	-.00018	.00516	-.00008	-.00030	-.0004	.00092	-.00079	.00195	-.00001
Stddev	.00042	.00007	.00056	.00002	.00007	.00771	.00021	.00073	.0063	.00218	.00228	.01076	.00033
%RSD	14.975	6.9272	8.4157	32.472	39.486	149.59	268.67	242.81	1731.	236.59	289.50	551.04	4173.7
#1	.00311	.00095	.00700	-.00006	-.00013	-.00030	-.00022	.00022	.0041	.00246	.00082	-.00565	.00023
#2	.00251	.00105	.00621	-.00004	-.00024	.01061	.00007	-.00082	-.0048	-.00062	-.00240	.00956	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00005	-.00021	-.00207	.00008	-.00010
Stddev	.00006	.00026	.00261	.00043	.00039
%RSD	116.81	121.23	126.09	542.37	406.11
#1	-.00001	-.00040	-.00392	.00038	-.00037
#2	-.00010	-.00003	-.00022	-.00022	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4285.6	7164.4	65976.	10586.
Stddev	8.8	10.0	188.	108.
%RSD	.20498	.13893	.28451	1.0198
#1	4279.4	7157.4	66109.	10663.
#2	4291.8	7171.5	65844.	10510.

Sample Name: MB 480-96309/1-B Acquired: 12/19/2012 14:25:39 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00100**	**-.00473**	**-.00146**	**.00073**	**.00004**	**-.00008**	**.02458**	**-.00006**	**.00001**
Stddev	.00016	.00287	.00014	.00016	.00000	.00004	.00408	.00005	.00013
%RSD	16.315	60.796	9.8290	22.320	9.0995	48.854	16.604	90.896	1679.6
#1	-.00112	-.00676	-.00156	.00062	.00004	-.00011	.02746	-.00010	.00010
#2	-.00089	-.00269	-.00136	.00085	.00004	-.00005	.02169	-.00002	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**.00051**	**.01045**	**-.01198**	**.00160**	**-.00002**	**.00242**	**.00001**	**-.00012**
Stddev	.00043	.00022	.00133	.00471	.00008	.00101	.00161	.00009	.00011
%RSD	85.610	42.891	12.775	39.297	4.7889	6144.0	66.501	1310.7	92.758
#1	-.00081	.00067	.00950	-.00865	.00155	-.00073	.00355	-.00006	-.00004
#2	-.00020	.00036	.01139	-.01531	.00166	.00070	.00128	.00007	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.02888**	**-.00051**	**-.00080**	**.0009**	**.00112**	**-.00021**	**-.01594**	**-.00020**	**-.00011**
Stddev	.00433	.00017	.00046	.0004	.00062	.00168	.01916	.00017	.00008
%RSD	15.012	33.445	57.062	48.98	54.782	792.52	120.23	86.619	68.313
#1	-.02581	-.00063	-.00048	.0012	.00156	.00098	-.00239	-.00008	-.00006
#2	-.03194	-.00039	-.00112	.0006	.00069	-.00140	-.02948	-.00032	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**-.00029**	**-.00213**	**.00018**	**.00059**
Stddev	.00022	.00020	.00013	.00002
%RSD	75.174	9.3802	68.354	3.9903
#1	-.00044	-.00199	.00027	.00057
#2	-.00014	-.00227	.00010	.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4357.3**	**7285.5**	**66758.**	**10660.**
Stddev	6.0	16.4	568.	69.
%RSD	.13672	.22549	.85116	.65035
#1	4353.1	7273.9	66356.	10709.
#2	4361.5	7297.1	67160.	10611.

Sample Name: LCS 480-96309/2-B Acquired: 12/19/2012 14:27:55 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05163	10.162	.20552	.20532	.21204	.21203	10.228	.20578	.20789
Stddev	.00135	.014	.00175	.00060	.00031	.00166	.020	.00022	.00001
%RSD	2.6183	.13354	.85023	.29138	.14783	.78084	.19721	.10709	.00486
#1	.05259	10.172	.20676	.20574	.21226	.21320	10.242	.20593	.20788
#2	.05068	10.153	.20429	.20489	.21182	.21086	10.214	.20562	.20790
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21072	.21002	10.216	10.107	9.7208	.20679	10.192	.20944	.21227
Stddev	.00023	.00031	.043	.035	.1245	.00198	.008	.00031	.00066
%RSD	.11069	.14842	.41998	.34454	1.2807	.95562	.08190	.14689	.30979
#1	.21089	.21024	10.246	10.132	9.8088	.20818	10.198	.20966	.21180
#2	.21056	.20980	10.185	10.083	9.6328	.20539	10.186	.20922	.21273
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.133	.20475	.20449	F -.0069	.20953	.19900	10.082	.20360	.20466
Stddev	.015	.00027	.00247	.0011	.00163	.00056	.035	.00019	.00015
%RSD	.14933	.12948	1.2068	15.35	.77704	.28124	.34914	.09393	.07091
#1	10.144	.20494	.20624	-.0077	.21068	.19861	10.057	.20347	.20476
#2	10.122	.20456	.20275	-.0062	.20838	.19940	10.107	.20374	.20456
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				11.50					
Low Limit				8.500					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	.20632	.20577	.21019	.21043
Stddev	.00023	.00219	.00100	.00092
%RSD	.11223	1.0640	.47474	.43693
#1	.20648	.20422	.20949	.20978
#2	.20615	.20731	.21090	.21108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4161.6	7198.3	65594.	10653.
Stddev	4.5	1.9	33.	50.
%RSD	.10794	.02598	.05069	.47327
#1	4158.4	7197.0	65571.	10617.
#2	4164.7	7199.6	65618.	10688.

Sample Name: 480-30366-I-1-B Acquired: 12/19/2012 14:30:06 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00052**	**.01187**	**.00052**	**.53923**	**.06253**	**.00000**	**78.097**	**-.00014**	**.00016**
Stddev	.00065	.01041	.00266	.00054	.00068	.0001	.886	.00019	.00003
%RSD	123.84	87.723	510.16	.09989	1.0798	2922.6	1.1348	141.77	17.181
#1	-.00098	.01923	.00240	.53885	.06300	.00006	78.723	.00000	.00018
#2	-.00007	.00451	-.00136	.53961	.06205	-.00006	77.470	-.00027	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00086**	**.00257**	**.05456**	**20.647**	**30.160**	**.05625**	**11.592**	**.07499**	**.00269**
Stddev	.00036	.00025	.00067	.286	.324	.00033	.136	.00090	.00009
%RSD	42.194	9.7056	1.2232	1.3862	1.0749	.59098	1.1720	1.1953	3.2784
#1	.00112	.00240	.05408	20.849	30.389	.05601	11.688	.07563	.00275
#2	.00061	.00275	.05503	20.444	29.931	.05648	11.496	.07436	.00263
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**302.17**	**.00130**	**.00134**	F **80.71**	**.00137**	**.00199**	**25.046**	**-.00010**	**.53009**
Stddev	4.24	.00009	.00069	.03	.00231	.00149	.218	.00017	.00482
%RSD	1.4016	6.6207	51.545	.0365	169.24	75.150	.87115	178.95	.90943
#1	305.16	.00137	.00085	80.73	.00300	.00305	25.200	-.00022	.53350
#2	299.17	.00124	.00183	80.69	-.00027	.00093	24.892	.00003	.52668
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00125**	**-.00322**	**.00130**	**.00713**
Stddev	.00059	.00375	.00021	.00078
%RSD	46.992	116.72	15.779	10.987
#1	.00166	-.00587	.00145	.00769
#2	.00083	-.00056	.00116	.00658
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3663.0**	**6714.3**	**61409.**	**10499.**
Stddev	.1	3.8	167.	92.
%RSD	.00187	.05599	.27150	.87985
#1	3663.0	6716.9	61291.	10434.
#2	3662.9	6711.6	61527.	10564.

Sample Name: CCV Acquired: 12/19/2012 14:32:31 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48583	23.690	.49609	.49588	.48113	.48567	24.054	.49839	.49187	.49396	.49200	23.769	24.210
Stddev	.00365	.024	.00118	.00115	.00067	.00021	.051	.00066	.00128	.00392	.00416	.058	.024
%RSD	.75078	.10096	.23729	.23095	.14024	.04345	.21015	.13336	.26087	.79410	.84547	.24532	.09738
#1	.48841	23.707	.49526	.49507	.48161	.48552	24.018	.49792	.49096	.49674	.49494	23.728	24.193
#2	.48325	23.673	.49692	.49669	.48065	.48582	24.090	.49886	.49278	.49119	.48906	23.810	24.227
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.365	.48186	23.420	.48829	.49938	24.117	.49540	.49918	24.78	.50643	.49496	23.745	.51699
Stddev	.241	.00042	.115	.00232	.00016	.062	.00112	.00036	.09	.00159	.00101	.052	.00172
%RSD	.98753	.08697	.49089	.47497	.03282	.25606	.22511	.07136	.3522	.31341	.20493	.22028	.33274
#1	24.195	.48156	23.501	.48993	.49926	24.073	.49461	.49893	24.72	.50531	.49568	23.708	.51578
#2	24.535	.48216	23.339	.48665	.49950	24.161	.49618	.49943	24.84	.50756	.49425	23.782	.51821
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	.48465	.49834	.49711	.48812	.49520
Stddev	.00088	.00302	.00045	.00535	.00623
%RSD	.18207	.60672	.09089	1.0961	1.2578
#1	.48402	.50047	.49743	.49190	.49961
#2	.48527	.49620	.49679	.48433	.49080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3957.4	7032.7	64835.	10600.
Stddev	14.1	17.4	516.	70.
%RSD	.35622	.24673	.79601	.65933
#1	3967.4	7045.0	64470.	10649.
#2	3947.4	7020.4	65200.	10551.

Sample Name: CCB Acquired: 12/19/2012 14:34:46 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00050	.01255	-.00091	.00096	.00003	.00004	.00927	-.00011	.00006	-.00051	.00030	.00279	-.00023
Stddev	.00011	.02155	.00293	.00026	.00002	.00005	.00498	.00005	.00015	.00061	.00020	.00112	.02253
%RSD	21.268	171.79	321.03	27.671	74.179	130.33	53.769	47.136	242.05	119.59	64.724	40.162	9863.6
#1	-.00058	.02779	-.00298	.00114	.00005	.00007	.01279	-.00015	.00017	-.00095	.00044	.00359	.01570
#2	-.00043	-.00269	.00116	.00077	.00001	.00000	.00575	-.00008	-.00004	-.00008	.00016	.00200	-.01616
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00322	.00113	.00409	.00000	.00006	.03766	-.00038	-.00065	.0024	.00073	.00170	-.00598	-.00054
Stddev	.00034	.00076	.00341	.0000	.00008	.00700	.00005	.00054	.0029	.00095	.00037	.00555	.00022
%RSD	10.529	67.361	83.359	967.61	129.51	18.597	13.232	82.783	118.7	130.05	21.536	92.817	40.440
#1	.00298	.00059	.00168	.00002	.00012	.04262	-.00042	-.00027	.0004	.00140	.00196	-.00990	-.00070
#2	.00346	.00167	.00650	-.00003	.00001	.03271	-.00035	-.00104	.0045	.00006	.00144	-.00205	-.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00004	.00025	.00049	-.00005	.00012
Stddev	.00007	.00018	.00175	.00003	.00006
%RSD	185.28	72.430	353.22	51.529	49.580
#1	.00009	.00012	-.00074	-.00007	.00017
#2	-.00001	.00038	.00173	-.00003	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4301.5	7183.4	66408.	10461.
Stddev	13.7	2.8	91.	170.
%RSD	.31804	.03861	.13708	1.6287
#1	4311.2	7185.3	66473.	10581.
#2	4291.8	7181.4	66344.	10340.

Sample Name: 480-30366-I-2-B Acquired: 12/19/2012 14:37:04 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00075**	**.05730**	**.00154**	**.53712**	**.05812**	**-.00002**	**79.776**	**-.00028**	**.00006**
Stddev	.00062	.01647	.00075	.00425	.00038	.00004	.380	.00011	.00002
%RSD	82.405	28.738	48.662	.79071	.65582	212.70	.47636	38.760	30.611
#1	-.00031	.04565	.00207	.54013	.05785	.00001	79.507	-.00036	.00005
#2	-.00118	.06894	.00101	.53412	.05839	-.00004	80.044	-.00021	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00043**	**.00141**	**.09723**	**21.119**	**30.680**	**.05741**	**11.835**	**.07386**	**.00205**
Stddev	.00046	.00017	.00194	.030	.390	.00055	.087	.00049	.00013
%RSD	106.25	12.006	1.9987	.14439	1.2726	.96291	.73756	.66977	6.1678
#1	.00075	.00153	.09586	21.097	30.404	.05702	11.773	.07351	.00197
#2	.00011	.00129	.09861	21.140	30.956	.05780	11.897	.07421	.00214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**307.98**	**.00038**	**.00021**	F **80.68**	**-.00041**	**.00227**	**25.640**	**-.00049**	**.54293**
Stddev	2.26	.00011	.00001	.72	.00018	.00253	.075	.00045	.00111
%RSD	.73323	28.583	5.0387	.8863	43.508	111.38	.29250	92.181	.20449
#1	306.39	.00031	.00021	81.19	-.00054	.00406	25.587	-.00081	.54215
#2	309.58	.00046	.00020	80.18	-.00029	.00048	25.693	-.00017	.54372
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00178**	**-.00425**	**.00103**	**.00417**
Stddev	.00019	.00029	.00012	.00035
%RSD	10.500	6.7132	11.981	8.2890
#1	.00165	-.00404	.00094	.00392
#2	.00191	-.00445	.00111	.00441
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3681.6**	**6761.2**	**60987.**	**10495.**
Stddev	27.4	48.2	529.	101.
%RSD	.74408	.71314	.86688	.96128
#1	3662.2	6727.1	61361.	10566.
#2	3701.0	6795.3	60614.	10423.

Sample Name: 480-30366-I-2-B SD@5 Acquired: 12/19/2012 14:39:26 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00048**	**.00837**	**.00013**	**.10778**	**.01196**	**.00005**	**16.276**	**-.00014**	**-.00007**
Stddev	.00034	.02474	.00025	.00047	.00002	.00007	.031	.00003	.00003
%RSD	71.437	295.77	195.95	.43552	.18811	152.14	.18785	21.434	45.134
#1	-.00024	-.00913	.00030	.10811	.01198	.00000	16.255	-.00016	-.00009
#2	-.00073	.02586	-.00005	.10745	.01195	.00010	16.298	-.00012	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.00095**	**.02138**	**4.2810**	**4.8627**	**.01216**	**2.3515**	**.01430**	**.00046**
Stddev	.00020	.00007	.00063	.0139	.0226	.00095	.0080	.00007	.00007
%RSD	62.266	7.2844	2.9334	.32474	.46537	7.8317	.34199	.50306	16.251
#1	.00047	.00091	.02093	4.2909	4.8467	.01149	2.3572	.01435	.00041
#2	.00018	.00100	.02182	4.2712	4.8787	.01284	2.3458	.01425	.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**62.352**	**-.00056**	**.00072**	F **15.63**	**-.00065**	**.00151**	**5.1511**	**-.00014**	**.11056**
Stddev	.019	.00013	.00019	.01	.00010	.00010	.0224	.00002	.00013
%RSD	.03099	23.196	26.376	.0869	15.860	6.4212	.43537	15.048	.12023
#1	62.365	-.00047	.00085	15.64	-.00057	.00158	5.1352	-.00016	.11047
#2	62.338	-.00065	.00058	15.62	-.00072	.00144	5.1670	-.00013	.11066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00069**	**.00029**	**.00073**
Stddev	.00027	.00151	.00061	.00008
%RSD	519.32	218.24	212.72	10.314
#1	.00024	-.00038	-.00015	.00079
#2	-.00014	.00176	.00072	.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4072.3**	**7066.3**	**64823.**	**10503.**
Stddev	4.4	1.7	22.	47.
%RSD	.10716	.02337	.03360	.44597
#1	4069.3	7067.4	64839.	10536.
#2	4075.4	7065.1	64808.	10470.

Sample Name: 480-30366-I-2-B PDS Acquired: 12/19/2012 14:41:40 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04941	9.9252	.21644	.72259	.25522	.21037	86.630	.20976	.21471
Stddev	.00035	.0346	.00192	.00828	.00077	.00071	.714	.00261	.00207
%RSD	.69894	.34877	.88505	1.1462	.30094	.33626	.82390	1.2424	.96453
#1	.04916	9.9008	.21509	.71673	.25468	.20987	86.125	.20792	.21325
#2	.04965	9.9497	.21780	.72845	.25576	.21087	87.135	.21160	.21618
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20424	.21133	10.043	30.341	42.355	.25125	20.932	.27120	.21281
Stddev	.00003	.00117	.036	.117	.341	.00167	.014	.00035	.00229
%RSD	.01458	.55410	.35847	.38611	.80622	.66331	.06785	.12746	1.0772
#1	.20422	.21050	10.018	30.258	42.113	.25007	20.942	.27145	.21119
#2	.20426	.21215	10.069	30.424	42.596	.25243	20.922	.27096	.21443
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	303.26	.21129	.20736	F 77.77	.21195	.21219	34.738	.21153	.72476
Stddev	3.11	.00192	.00010	.67	.00321	.00231	.206	.00139	.00239
%RSD	1.0254	.90903	.04657	.8632	1.5160	1.0876	.59189	.65487	.33010
#1	301.06	.20993	.20729	77.30	.20968	.21055	34.592	.21056	.72307
#2	305.46	.21265	.20743	78.25	.21423	.21382	34.883	.21251	.72646
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	.20504	.20064	.20810	.21377
Stddev	.00093	.00357	.00000	.00036
%RSD	.45425	1.7768	.00174	.16662
#1	.20439	.19812	.20810	.21402
#2	.20570	.20316	.20810	.21351
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3663.2	6779.3	61742.	10548.
Stddev	33.5	63.5	274.	68.
%RSD	.91373	.93709	.44447	.64616
#1	3686.8	6824.2	61936.	10596.
#2	3639.5	6734.4	61548.	10500.

Sample Name: 480-30366-I-2-C MS Acquired: 12/19/2012 14:43:58 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05119	9.9632	.21784	.74648	.25931	.21061	88.837	.21234	.21693
Stddev	.00097	.0790	.00094	.00069	.00074	.00036	.497	.00030	.00073
%RSD	1.8930	.79282	.43236	.09289	.28385	.17059	.55933	.14083	.33636
#1	.05050	10.019	.21718	.74599	.25879	.21086	89.188	.21213	.21641
#2	.05187	9.9074	.21851	.74697	.25983	.21035	88.485	.21256	.21744
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20607	.21379	10.066	30.915	42.738	.25517	21.225	.27445	.21583
Stddev	.00109	.00085	.011	.130	.496	.00389	.092	.00065	.00079
%RSD	.53077	.39904	.11030	.42172	1.1602	1.5233	.43336	.23551	.36482
#1	.20530	.21319	10.074	31.007	43.089	.25791	21.160	.27400	.21527
#2	.20684	.21439	10.058	30.823	42.387	.25242	21.290	.27491	.21638
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	310.95	.21391	.20984	F 80.82	.21697	.21113	35.392	.21450	.73985
Stddev	2.04	.00003	.00018	.20	.00032	.00384	.258	.00070	.00328
%RSD	.65592	.01437	.08623	.2418	.14633	1.8200	.72816	.32688	.44288
#1	312.39	.21393	.20997	80.68	.21719	.21385	35.574	.21401	.74216
#2	309.51	.21388	.20971	80.96	.21674	.20842	35.210	.21500	.73753
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	.20720	.20247	.21159	.21769
Stddev	.00209	.00083	.00033	.00097
%RSD	1.0105	.40957	.15368	.44631
#1	.20572	.20188	.21182	.21700
#2	.20868	.20306	.21136	.21837
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3632.3	6730.9	61431.	10554.
Stddev	11.7	10.6	60.	49.
%RSD	.32201	.15720	.09695	.46076
#1	3640.5	6738.4	61473.	10519.
#2	3624.0	6723.4	61389.	10588.

Sample Name: 480-30366-I-2-D MSD Acquired: 12/19/2012 14:46:15 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05268	10.133	.21988	.74923	.26332	.21223	89.747	.21319	.21836
Stddev	.00020	.016	.00047	.00160	.00024	.00147	.347	.00091	.00044
%RSD	.37818	.15430	.21600	.21322	.08931	.69473	.38683	.42823	.20023
#1	.05282	10.145	.22022	.75036	.26348	.21328	89.992	.21383	.21867
#2	.05254	10.122	.21955	.74810	.26315	.21119	89.501	.21254	.21805
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20932	.21551	10.128	31.175	42.858	.25851	21.635	.28007	.21580
Stddev	.00078	.00024	.065	.147	.223	.00260	.072	.00013	.00065
%RSD	.37173	.11360	.64163	.47230	.51965	1.0056	.33097	.04661	.30012
#1	.20987	.21568	10.174	31.279	43.015	.26035	21.686	.27998	.21626
#2	.20877	.21533	10.082	31.071	42.700	.25668	21.584	.28016	.21534
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	316.87	.21537	.21151	F 80.88	.21642	.21243	35.740	.21645	.74429
Stddev	1.94	.00079	.00142	.04	.00111	.00261	.120	.00051	.00457
%RSD	.61109	.36740	.67036	.0508	.51253	1.2300	.33636	.23444	.61426
#1	318.24	.21593	.21251	80.91	.21563	.21058	35.825	.21681	.74752
#2	315.50	.21481	.21051	80.85	.21720	.21427	35.655	.21610	.74105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	.21096	.20090	.21228	.21730
Stddev	.00005	.00051	.00046	.00109
%RSD	.02220	.25632	.21584	.50350
#1	.21093	.20054	.21260	.21653
#2	.21100	.20126	.21196	.21808
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3627.3	6724.1	61121.	10504.
Stddev	2.3	12.0	107.	22.
%RSD	.06226	.17905	.17452	.20556
#1	3625.7	6715.5	61197.	10489.
#2	3628.9	6732.6	61046.	10519.

Sample Name: MB 480-96424/1-A Acquired: 12/19/2012 14:48:33 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.00527**	**.00111**	**.00245**	**.00011**	**.00001**	**.03055**	**-.00002**	**.00004**
Stddev	.00106	.00875	.00034	.00017	.00003	.00001	.00449	.00019	.00009
%RSD	329.66	165.96	30.744	6.9579	26.144	160.48	14.686	842.00	200.76
#1	-.00107	.01146	.00087	.00233	.00013	.00002	.02737	.00011	-.00002
#2	.00043	-.00091	.00135	.00257	.00009	.00000	.03372	-.00016	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.00074**	**.00091**	**.04955**	**.00950**	**-.00088**	**.01160**	**.00002**	**.00005**
Stddev	.00011	.00052	.00045	.00432	.00241	.00020	.00977	.00004	.00020
%RSD	144.71	69.905	48.951	8.7090	25.401	23.368	84.256	259.38	404.19
#1	.00000	.00110	.00123	.04650	.01121	-.00102	.01851	.00004	.00019
#2	.00016	.00037	.00060	.05260	.00779	-.00073	.00469	-.00001	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05981**	**-.00037**	**-.00024**	F **.0197**	**.00007**	**-.00043**	**-.00484**	**.00012**	**.00005**
Stddev	.00426	.00008	.00005	.0061	.00005	.00101	.00388	.00031	.00005
%RSD	7.1195	20.798	22.548	31.16	69.370	232.82	80.256	263.63	98.404
#1	.05680	-.00042	-.00028	.0240	.00010	-.00115	-.00209	.00034	.00008
#2	.06282	-.00031	-.00020	.0153	.00004	.00028	-.00759	-.00010	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.0030					
Low Limit				-.0040					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**-.00013**	**-.00038**	**.00030**	**.00012**
Stddev	.00005	.00124	.00049	.00024
%RSD	36.886	326.28	161.50	196.66
#1	-.00010	.00050	-.00004	.00029
#2	-.00017	-.00126	.00065	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4393.5**	**7346.4**	**67439.**	**10864.**
Stddev	11.7	11.4	209.	2.
%RSD	.26709	.15494	.30951	.01556
#1	4401.8	7354.4	67292.	10865.
#2	4385.2	7338.3	67587.	10863.

Sample Name: LCS 480-96424/2-A Acquired: 12/19/2012 14:50:49 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05024**	**10.039**	**.20619**	**.21063**	**.20603**	**.21091**	**10.162**	**.20794**	**.20906**
Stddev	.00203	.173	.00171	.00259	.00465	.00271	.194	.00269	.00214
%RSD	4.0455	1.7268	.82976	1.2297	2.2582	1.2851	1.9079	1.2926	1.0250
#1	.04880	10.162	.20498	.20879	.20274	.21283	10.299	.20603	.20755
#2	.05168	9.9169	.20740	.21246	.20932	.20899	10.025	.20984	.21058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20569**	**.20621**	**10.141**	**10.078**	**9.5421**	**.20492**	**10.003**	**.20433**	**.21360**
Stddev	.00532	.00446	.156	.144	.2191	.00312	.213	.00403	.00195
%RSD	2.5873	2.1620	1.5428	1.4307	2.2958	1.5201	2.1293	1.9700	.91400
#1	.20192	.20305	10.252	10.180	9.6970	.20712	9.8519	.20148	.21222
#2	.20945	.20936	10.030	9.9763	9.3872	.20271	10.153	.20717	.21498
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.116**	**.20640**	**.20751**	F **.0059**	**.20933**	**.19894**	**9.9444**	**.20273**	**.20325**
Stddev	.177	.00220	.00268	.0015	.00096	.00040	.1273	.00250	.00251
%RSD	1.7490	1.0673	1.2938	24.89	.45977	.20183	1.2799	1.2337	1.2332
#1	10.241	.20484	.20561	.0070	.21001	.19866	10.034	.20096	.20502
#2	9.9912	.20796	.20941	.0049	.20865	.19923	9.8544	.20450	.20147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				11.50					
Low Limit				8.500					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.20130**	**.20760**	**.20496**	**.20851**
Stddev	.00402	.00344	.00398	.00463
%RSD	1.9960	1.6585	1.9432	2.2211
#1	.19846	.20517	.20214	.20523
#2	.20414	.21003	.20777	.21178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4150.4**	**7172.7**	**66608.**	**10706.**
Stddev	41.9	76.8	1168.	151.
%RSD	1.0099	1.0713	1.7537	1.4148
#1	4180.1	7227.1	67434.	10599.
#2	4120.8	7118.4	65782.	10813.

Sample Name: 480-30350-A-1-A Acquired: 12/19/2012 14:53:02 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00066**	**.00982**	**.00544**	**.06440**	**.37361**	**.00009**	**66.285**	**-.00020**	**.00076**
Stddev	.00010	.00719	.00070	.00063	.00098	.00003	.888	.00010	.00006
%RSD	15.401	73.178	12.785	.97493	.26133	28.054	1.3399	52.048	7.4154
#1	-.00074	.01490	.00593	.06396	.37292	.00011	66.913	-.00012	.00072
#2	-.00059	.00474	.00495	.06485	.37430	.00007	65.657	-.00027	.00080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00062**	**.00100**	**9.6262**	**1.0801**	**1.1712**	**.00668**	**18.377**	**1.6631**	**.00116**
Stddev	.00035	.00051	.0934	.0429	.0184	.00086	.044	.0064	.00016
%RSD	57.166	51.397	.97072	3.9751	1.5674	12.869	.23979	.38541	13.618
#1	.00086	.00064	9.6922	1.1105	1.1841	.00729	18.346	1.6586	.00127
#2	.00037	.00136	9.5601	1.0498	1.1582	.00607	18.408	1.6676	.00105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.325**	**.00000**	**.00000**	**4.851**	**-.00025**	**.00021**	**14.119**	**-.00057**	**.39277**
Stddev	.264	.0002	.0000	.021	.00271	.00163	.185	.00054	.00509
%RSD	1.0861	5791.7	257.21	.4235	1064.5	771.57	1.3097	95.623	1.2963
#1	24.511	.00014	.00000	4.837	-.00217	.00137	14.250	-.00018	.39637
#2	24.138	-.00014	-.00001	4.866	.00166	-.00094	13.988	-.00095	.38917
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00045**	**.00094**	**.00220**
Stddev	.00008	.00110	.00064	.00014
%RSD	27.727	241.46	68.445	6.5886
#1	.00033	.00123	.00049	.00230
#2	.00022	-.00032	.00140	.00210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4007.5**	**7006.2**	**64109.**	**10621.**
Stddev	5.9	16.7	218.	140.
%RSD	.14606	.23856	.34051	1.3157
#1	4011.6	7018.0	64263.	10523.
#2	4003.3	6994.4	63954.	10720.

Sample Name: 480-30350-A-2-A Acquired: 12/19/2012 14:55:14 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00122**	**5.8559**	**.01674**	**.24643**	**.41143**	**.00025**	**144.74**	**.00025**	**.00756**
Stddev	.00016	.0107	.00363	.00067	.00091	.00007	.02	.00007	.00020
%RSD	13.378	.18364	21.677	.27363	.22227	28.288	.01458	26.258	2.7034
#1	.00110	5.8482	.01930	.24596	.41078	.00020	144.72	.00029	.00771
#2	.00133	5.8635	.01417	.24691	.41207	.00030	144.75	.00020	.00742
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01152**	**.01492**	**12.821**	**4.6885**	**7.7164**	**.02599**	**75.561**	**12.622**	**.01301**
Stddev	.00026	.00005	.009	.0082	.1355	.00048	.158	.115	.00016
%RSD	2.2965	.30446	.06878	.17507	1.7555	1.8536	.20845	.91051	1.2586
#1	.01134	.01489	12.815	4.6943	7.8122	.02565	75.450	12.541	.01289
#2	.01171	.01495	12.827	4.6827	7.6206	.02633	75.673	12.703	.01312
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**289.33**	**.01029**	**.00635**	F **177.1**	**.00329**	**.00803**	**27.041**	**.00064**	**1.1934**
Stddev	1.25	.00007	.00160	.3	.00045	.00596	.038	.00013	.0003
%RSD	.43162	.65189	25.233	.1665	13.791	74.238	.14146	20.399	.02712
#1	288.45	.01034	.00522	176.9	.00297	.01224	27.069	.00074	1.1931
#2	290.21	.01024	.00748	177.3	.00362	.00381	27.014	.00055	1.1936
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.13042**	**.00832**	**.01728**	**.05162**
Stddev	.00892	.00222	.00053	.00013
%RSD	6.8391	26.691	3.0625	.24286
#1	.13673	.00989	.01691	.05153
#2	.12412	.00675	.01765	.05171
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3589.0**	**6645.4**	**60792.**	**10376.**
Stddev	2.9	17.1	244.	28.
%RSD	.08050	.25700	.40105	.27420
#1	3591.1	6657.5	60965.	10356.
#2	3587.0	6633.3	60620.	10396.

Sample Name: 480-30350-A-3-A Acquired: 12/19/2012 14:57:42 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**.00957**	**.00091**	**.00730**	**.00430**	**.00000**	**1.0065**	**-.00005**	**-.00012**
Stddev	.00059	.00953	.00106	.00059	.00010	.00002	.0000	.00002	.00016
%RSD	146.32	99.543	117.06	8.1263	2.3853	972.11	.00402	36.721	130.21
#1	-.00082	.00283	.00166	.00688	.00423	.00002	1.0064	-.00006	-.00024
#2	.00001	.01631	.00016	.00772	.00437	-.00001	1.0065	-.00003	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00067**	**.04757**	**.01734**	**.01509**	**.00079**	**.04480**	**.01380**	**-.00006**
Stddev	.00010	.00029	.00225	.00147	.00026	.00145	.00788	.00286	.00016
%RSD	246.78	43.214	4.7350	8.4933	1.7020	182.16	17.588	20.737	275.37
#1	.00012	.00088	.04598	.01630	.01490	.00182	.03923	.01178	.00005
#2	-.00003	.00047	.04916	.01838	.01527	-.00023	.05038	.01583	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.30195**	**-.00021**	**.00050**	**.0356**	**.00083**	**.00071**	**.05158**	**-.00012**	**.05785**
Stddev	.00604	.00030	.00015	.0115	.00244	.00235	.00369	.00064	.00036
%RSD	2.0011	138.36	29.949	32.20	294.41	333.26	7.1513	548.53	.62666
#1	.30622	-.00042	.00040	.0438	-.00090	-.00096	.04898	.00034	.05760
#2	.29768	.00000	.00061	.0275	.00256	.00237	.05419	-.00057	.05811
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00042**	**-.00259**	**.00035**	**.00187**
Stddev	.00035	.00032	.00002	.00007
%RSD	83.321	12.360	6.6889	3.5591
#1	.00067	-.00236	.00034	.00182
#2	.00017	-.00282	.00037	.00191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4360.1**	**7283.8**	**67342.**	**10780.**
Stddev	10.0	17.2	188.	24.
%RSD	.22915	.23606	.27878	.22422
#1	4367.1	7295.9	67475.	10763.
#2	4353.0	7271.6	67209.	10797.

Sample Name: CCV Acquired: 12/19/2012 15:00:01 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49247	24.190	.49735	.49444	.48992	.49328	24.552	.49714	.49078	.49782	.49443	24.076	24.552
Stddev	.00185	.590	.00156	.00083	.01096	.01136	.585	.00018	.00022	.00109	.00131	.537	.597
%RSD	.37489	2.4369	.31364	.16729	2.2373	2.3037	2.3841	.03672	.04527	.21992	.26567	2.2304	2.4314
#1	.49377	24.607	.49625	.49385	.49767	.50132	24.966	.49727	.49063	.49859	.49536	24.456	24.974
#2	.49116	23.773	.49845	.49502	.48217	.48525	24.139	.49702	.49094	.49704	.49350	23.696	24.130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.870	.48989	23.657	.49299	.49964	24.568	.49429	.49746	24.60	.50601	.49132	24.284	.51557
Stddev	.680	.01062	.052	.00072	.00061	.500	.00077	.00106	.10	.00278	.00012	.469	.00312
%RSD	2.7331	2.1673	.21993	.14617	.12243	2.0336	.15602	.21267	.3901	.55010	.02391	1.9326	.60583
#1	25.351	.49740	23.620	.49248	.50007	24.921	.49375	.49671	24.53	.50404	.49124	24.616	.51336
#2	24.389	.48239	23.693	.49350	.49921	24.215	.49484	.49821	24.67	.50797	.49140	23.952	.51778
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	.49382	.50146	.49711	.49185	.49705
Stddev	.01027	.00393	.00436	.00240	.00348
%RSD	2.0788	.78293	.87662	.48770	.69966
#1	.50108	.50424	.49402	.49015	.49459
#2	.48656	.49869	.50019	.49355	.49950
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3967.1	7045.6	64589.	10447.
Stddev	7.9	.9	98.	224.
%RSD	.19988	.01212	.15183	2.1450
#1	3972.7	7045.0	64659.	10288.
#2	3961.4	7046.2	64520.	10605.

Sample Name: CCB Acquired: 12/19/2012 15:02:15 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00087**	**-.00167**	**-.00087**	**.00056**	**.00002**	**.00007**	**.00082**	**.00008**	**.00000**	**-.00018**	**.00038**	**.00136**	**-.04803**
Stddev	.00002	.01113	.00006	.00012	.00001	.00001	.00200	.00010	.00004	.00005	.00019	.00118	.03100
%RSD	1.7569	666.60	6.9658	20.855	64.500	13.785	244.52	116.65	5673.6	27.842	49.897	86.263	64.533
#1	-.00088	-.00954	-.00083	.00065	.00001	.00007	.00223	.00001	-.00003	-.00022	.00051	.00053	-.02611
#2	-.00086	.00620	-.00091	.00048	.00003	.00006	-.00060	.00015	.00003	-.00014	.00024	.00219	-.06995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00313**	**-.00088**	**-.00085**	**-.00005**	**.00014**	**.02529**	**.00020**	**.00032**	F **.0079**	**.00049**	**.00131**	**-.01241**	**-.00043**
Stddev	.00027	.00077	.00334	.00002	.00022	.00084	.00001	.00015	.0008	.00006	.00018	.00631	.00032
%RSD	8.7138	87.005	395.14	33.020	155.97	3.3410	2.7373	48.226	10.51	11.161	14.076	50.821	74.764
#1	.00333	-.00143	.00152	-.00006	.00029	.02588	.00020	.00042	.0073	.00045	.00118	-.00795	-.00020
#2	.00294	-.00034	-.00321	-.00004	-.00001	.02469	.00019	.00021	.0085	.00053	.00144	-.01687	-.00065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									.0030				
Low Limit									-.0040				

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.00001**	**-.00008**	**-.00023**	**.00030**
Stddev	.00007	.00016	.00006	.00051	.00043
%RSD	153.87	1970.7	78.077	227.03	143.58
#1	.00000	.00010	-.00012	-.00059	.00060
#2	.00009	-.00012	-.00003	.00014	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4290.8**	**7162.8**	**65507.**	**10466.**
Stddev	5.5	17.5	176.	6.
%RSD	.12801	.24393	.26822	.05340
#1	4286.9	7150.5	65631.	10470.
#2	4294.7	7175.2	65382.	10462.

Sample Name: 480-30350-A-5-A Acquired: 12/19/2012 15:04:34 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00083**	**.11879**	**.00213**	**.23813**	**.03204**	**.00007**	**118.08**	**.00027**	**.00040**
Stddev	.00058	.01261	.00222	.00046	.00017	.00006	.84	.00000	.00006
%RSD	69.928	10.612	104.51	.19463	.52637	86.146	.71502	.81127	14.136
#1	-.00042	.10988	.00055	.23780	.03216	.00003	117.48	.00027	.00036
#2	-.00124	.12771	.00370	.23846	.03192	.00011	118.67	.00027	.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00126**	**.00163**	**.81192**	**1.8485**	**3.1260**	**.02110**	**84.013**	**1.6065**	**.01615**
Stddev	.00025	.00011	.01081	.0077	.0144	.00016	.435	.0081	.00036
%RSD	19.619	6.7746	1.3309	.41659	.46159	.76513	.51721	.50665	2.2394
#1	.00108	.00156	.80428	1.8430	3.1158	.02099	84.320	1.6122	.01590
#2	.00143	.00171	.81956	1.8539	3.1362	.02122	83.706	1.6007	.01641
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**363.89**	**.00296**	**.00066**	F **188.7**	**.00018**	**.00219**	**10.414**	**-.00088**	**1.1048**
Stddev	1.92	.00021	.00127	.3	.00043	.00644	.093	.00047	.0095
%RSD	.52811	7.0885	191.98	.1719	243.34	293.46	.89381	53.734	.86387
#1	362.53	.00281	.00156	188.5	-.00013	.00674	10.348	-.00122	1.0981
#2	365.25	.00311	-.00024	189.0	.00048	-.00236	10.480	-.00055	1.1116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00272**	**.00176**	**.00190**	**.00161**
Stddev	.00011	.00014	.00022	.00037
%RSD	3.8725	7.9700	11.467	22.997
#1	.00279	.00166	.00206	.00135
#2	.00264	.00186	.00175	.00187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3565.5**	**6568.4**	**59918.**	**10351.**
Stddev	1.3	4.1	135.	43.
%RSD	.03713	.06297	.22562	.41753
#1	3566.4	6565.5	59822.	10382.
#2	3564.6	6571.3	60013.	10321.

Sample Name: 480-30350-A-6-A Acquired: 12/19/2012 15:06:50 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00000	.01020	.01027	.05982	.23360	-.00007	77.365	.00015	.00067
Stddev	.0002	.01471	.00033	.00014	.00104	.00001	1.505	.00009	.00008
%RSD	18104.	144.28	3.1875	.23179	.44388	11.894	1.9456	62.486	12.215
#1	.00013	.02060	.01051	.05991	.23433	-.00006	78.430	.00008	.00073
#2	-.00013	-.00021	.01004	.05972	.23286	-.00008	76.301	.00022	.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00062	.00077	1.6864	.92760	1.0997	.00702	24.805	2.7081	.00168
Stddev	.00003	.00006	.0441	.03637	.0145	.00005	.055	.0028	.00034
%RSD	4.0735	8.3664	2.6157	3.9209	1.3197	.67249	.22131	.10440	20.391
#1	.00064	.00073	1.7176	.95332	1.1100	.00706	24.844	2.7101	.00144
#2	.00060	.00082	1.6553	.90188	1.0895	.00699	24.767	2.7061	.00192
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	32.992	.00006	.00079	4.554	.00063	.00194	13.221	-.00077	.43960
Stddev	.783	.00006	.00114	.009	.00020	.00054	.229	.00012	.00941
%RSD	2.3722	112.54	144.86	.2035	32.456	27.667	1.7298	15.719	2.1413
#1	33.545	.00010	.00159	4.560	.00077	.00156	13.382	-.00086	.44625
#2	32.438	.00001	-.00002	4.547	.00048	.00232	13.059	-.00068	.43294
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	.00080	-.00022	.00123	.00219
Stddev	.00010	.00048	.00006	.00038
%RSD	12.745	217.09	5.2057	17.191
#1	.00087	.00012	.00128	.00246
#2	.00072	-.00056	.00119	.00192
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3980.0	6990.9	64274.	10421.
Stddev	.2	2.0	38.	113.
%RSD	.00618	.02905	.05913	1.0841
#1	3980.2	6992.4	64301.	10342.
#2	3979.9	6989.5	64247.	10501.

Sample Name: 480-30350-A-7-A Acquired: 12/19/2012 15:09:01 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**.00877**	**.00539**	**.03906**	**.10980**	**-.00002**	**33.238**	**-.00003**	**.00047**
Stddev	.00069	.01099	.00044	.00011	.00036	.00005	.034	.00001	.00001
%RSD	186.99	125.26	8.1723	.28719	.32336	281.19	.10368	41.614	1.9621
#1	.00012	.00100	.00570	.03914	.11005	.00002	33.214	-.00002	.00048
#2	-.00086	.01654	.00508	.03898	.10955	-.00005	33.262	-.00004	.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00063**	**.00123**	**1.1898**	**.77722**	**.88105**	**.00493**	**9.4250**	**.92025**	**.00254**
Stddev	.00034	.00013	.0051	.01052	.00372	.00010	.0282	.00364	.00032
%RSD	53.976	10.910	.43158	1.3534	.42248	2.1066	.29901	.39573	12.707
#1	.00039	.00114	1.1934	.78466	.88369	.00485	9.4449	.92282	.00277
#2	.00087	.00133	1.1861	.76979	.87842	.00500	9.4051	.91767	.00232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**29.586**	**-.00011**	**.00030**	**6.773**	**.00040**	**-.00036**	**11.679**	**-.00014**	**.22446**
Stddev	.050	.00018	.00080	.007	.00029	.00166	.011	.00087	.00077
%RSD	.16812	159.10	268.55	.1110	72.154	465.50	.09828	607.27	.34342
#1	29.551	.00001	.00087	6.778	.00061	.00082	11.688	.00047	.22392
#2	29.621	-.00024	-.00027	6.768	.00020	-.00153	11.671	-.00076	.22501
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00045**	**-.00115**	**.00107**	**.00669**
Stddev	.00028	.00305	.00020	.00021
%RSD	61.445	264.10	18.865	3.1931
#1	.00065	.00100	.00122	.00685
#2	.00025	-.00331	.00093	.00654
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4123.5**	**7108.6**	**64962.**	**10613.**
Stddev	3.3	2.8	175.	37.
%RSD	.08117	.03877	.27009	.34699
#1	4125.9	7106.6	64838.	10587.
#2	4121.1	7110.5	65086.	10639.

Sample Name: 480-30350-A-8-A Acquired: 12/19/2012 15:11:13 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00066	5.8155	.02101	.05605	.75881	.00011	153.94	-.00035	.00298
Stddev	.00004	.0453	.00049	.00048	.00697	.00009	1.16	.00018	.00009
%RSD	5.3873	.77946	2.3190	.85201	.91817	81.247	.75196	51.747	3.0384
#1	.00069	5.7834	.02066	.05639	.75388	.00005	153.12	-.00047	.00304
#2	.00064	5.8475	.02135	.05572	.76373	.00018	154.76	-.00022	.00291
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00847	.00583	27.608	2.2583	2.9792	.01284	48.625	10.032	-.00006
Stddev	.00040	.00040	.057	.0340	.0189	.00161	.205	.027	.00035
%RSD	4.7695	6.9285	.20564	1.5064	.63557	12.515	.42156	.27247	566.93
#1	.00876	.00554	27.567	2.2824	2.9926	.01170	48.770	10.012	.00018
#2	.00818	.00611	27.648	2.2343	2.9658	.01398	48.480	10.051	-.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	58.297	.00304	.00234	F 13.47	-.00050	.00440	25.172	.00043	.98186
Stddev	.521	.00002	.00074	.03	.00113	.00284	.235	.00053	.00427
%RSD	.89326	.49453	31.692	.1933	225.53	64.513	.93396	122.12	.43463
#1	57.928	.00305	.00286	13.48	-.00130	.00640	25.006	.00080	.97884
#2	58.665	.00303	.00181	13.45	.00030	.00239	25.338	.00006	.98488
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	.21962	.00541	.01392	.02103
Stddev	.00953	.00072	.00075	.00095
%RSD	4.3404	13.300	5.4097	4.5136
#1	.22636	.00490	.01445	.02171
#2	.21288	.00592	.01338	.02036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3736.1	6788.9	63106.	10548.
Stddev	7.2	1.8	167.	15.
%RSD	.19352	.02701	.26426	.14411
#1	3741.3	6787.6	63224.	10558.
#2	3731.0	6790.2	62988.	10537.

Sample Name: 480-30350-A-9-A Acquired: 12/19/2012 15:13:35 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.02258**	**.00484**	**.05149**	**.20655**	**-.00001**	**43.338**	**-.00025**	**.00034**
Stddev	.00028	.01925	.00125	.00019	.00085	.00000	.097	.00003	.00007
%RSD	134.56	85.250	25.799	.37237	.41256	62.231	.22320	13.694	21.267
#1	-.00040	.03620	.00572	.05135	.20715	.00000	43.406	-.00028	.00039
#2	-.00001	.00897	.00395	.05162	.20595	-.00001	43.269	-.00023	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**.00113**	**5.3026**	**.80855**	**.89915**	**.00498**	**11.790**	**1.2236**	**.00139**
Stddev	.00014	.00030	.0040	.01020	.00078	.00008	.067	.0081	.00005
%RSD	48.496	26.406	.07543	1.2611	.08702	1.5305	.56678	.66270	3.6435
#1	.00040	.00134	5.2998	.80134	.89971	.00493	11.837	1.2293	.00142
#2	.00019	.00092	5.3054	.81576	.89860	.00503	11.743	1.2179	.00135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.003**	**-.00026**	**-.00012**	**1.745**	**.00178**	**.00185**	**14.139**	**-.00106**	**.25254**
Stddev	.082	.00020	.00120	.007	.00116	.00059	.044	.00004	.00059
%RSD	.32991	78.803	1020.5	.3798	64.975	31.678	.31439	4.1131	.23311
#1	25.061	-.00040	-.00097	1.750	.00260	.00144	14.170	-.00109	.25296
#2	24.944	-.00011	.00073	1.741	.00096	.00226	14.108	-.00103	.25213
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00087**	**.00108**	**.00063**	**.00168**
Stddev	.00020	.00015	.00013	.00031
%RSD	23.474	13.693	21.131	18.644
#1	.00102	.00098	.00073	.00190
#2	.00073	.00119	.00054	.00146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4082.8**	**7070.7**	**65459.**	**10736.**
Stddev	5.9	20.7	178.	.
%RSD	.14460	.29266	.27205	.00459
#1	4078.6	7056.0	65334.	10737.
#2	4087.0	7085.3	65585.	10736.

Sample Name: 480-30350-A-10-A Acquired: 12/19/2012 15:15:49 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.00337**	**.00576**	**.06155**	**.35759**	**-.00006**	**64.447**	**-.00012**	**.00070**
Stddev	.00012	.00444	.00137	.00011	.00222	.00001	.279	.00002	.00004
%RSD	55.732	131.72	23.797	.17172	.62189	21.225	.43331	14.056	5.9469
#1	-.00014	.00650	.00672	.06162	.35917	-.00007	64.644	-.00014	.00067
#2	-.00031	.00023	.00479	.06147	.35602	-.00005	64.250	-.00011	.00073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**.00104**	**9.3685**	**1.0034**	**1.1338**	**.00641**	**17.581**	**1.5909**	**.00067**
Stddev	.00051	.00063	.0405	.0134	.0024	.00161	.113	.0102	.00019
%RSD	72.334	60.398	.43263	1.3330	.21219	25.190	.64524	.63850	27.986
#1	.00107	.00148	9.3972	1.0128	1.1321	.00755	17.662	1.5981	.00080
#2	.00035	.00059	9.3399	.99389	1.1355	.00527	17.501	1.5837	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.581**	**.00014**	**.00029**	**4.720**	**.00042**	**.00254**	**13.690**	**-.00018**	**.38209**
Stddev	.048	.00044	.00036	.003	.00107	.00247	.059	.00052	.00139
%RSD	.20227	301.28	124.91	.0723	253.36	97.259	.43316	295.35	.36377
#1	23.614	-.00016	.00055	4.723	.00118	.00079	13.732	-.00054	.38307
#2	23.547	.00045	.00003	4.718	-.00033	.00429	13.648	.00019	.38111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00011**	**-.00120**	**.00119**	**.00201**
Stddev	.00020	.00164	.00028	.00031
%RSD	192.07	135.92	23.629	15.167
#1	.00025	-.00005	.00099	.00180
#2	-.00004	-.00236	.00139	.00223
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4017.0**	**7012.3**	**64670.**	**10648.**
Stddev	.9	8.5	265.	9.
%RSD	.02170	.12144	.40969	.08460
#1	4017.6	7018.3	64483.	10654.
#2	4016.4	7006.3	64858.	10642.

Sample Name: 480-30350-A-11-A Acquired: 12/19/2012 15:18:02 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00069**	**.09283**	**.01570**	**.12374**	**.40624**	**-.00002**	**105.76**	**.00001**	**.00075**
Stddev	.00117	.00186	.00028	.00128	.00090	.00003	.59	.00018	.00006
%RSD	169.72	1.9986	1.8001	1.0333	.22250	204.56	.55679	2903.2	7.9320
#1	.00014	.09414	.01550	.12284	.40687	.00001	106.17	-.00012	.00079
#2	-.00151	.09152	.01590	.12465	.40560	-.00004	105.34	.00014	.00071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00151**	**.00163**	**12.249**	**1.9355**	**2.3800**	**.01091**	**30.767**	**2.8279**	**.00131**
Stddev	.00036	.00039	.060	.0644	.0090	.00072	.084	.0051	.00005
%RSD	23.586	23.876	.48639	3.3297	.37770	6.5941	.27327	.17908	3.9979
#1	.00126	.00190	12.291	1.9811	2.3736	.01040	30.827	2.8315	.00135
#2	.00177	.00135	12.206	1.8899	2.3863	.01142	30.708	2.8243	.00127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**48.874**	**.00046**	**.00005**	**7.983**	**.00083**	**.00168**	**13.152**	**-.00039**	**.73899**
Stddev	.159	.00024	.00050	.109	.00199	.00097	.132	.00062	.00349
%RSD	.32604	51.288	1007.6	1.366	238.70	58.069	1.0033	158.52	.47293
#1	48.987	.00063	-.00030	7.906	-.00057	.00237	13.246	-.00082	.74146
#2	48.761	.00029	.00040	8.060	.00224	.00099	13.059	.00005	.73652
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00426**	**.00150**	**.00203**	**.00741**
Stddev	.00041	.00033	.00059	.00039
%RSD	9.6149	21.867	28.843	5.2636
#1	.00455	.00127	.00245	.00713
#2	.00397	.00174	.00162	.00768
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3883.2**	**6933.1**	**63279.**	**10530.**
Stddev	31.9	45.9	333.	9.
%RSD	.82225	.66272	.52669	.08415
#1	3905.8	6965.6	63043.	10523.
#2	3860.6	6900.6	63515.	10536.

Sample Name: 480-30350-A-12-A Acquired: 12/19/2012 15:20:15 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**.23514**	**.00237**	**.05534**	**.29777**	**-.00001**	**51.387**	**-.00022**	**.00055**
Stddev	.00032	.00820	.00053	.00043	.00831	.00007	.260	.00000	.00007
%RSD	89.398	3.4891	22.405	.77784	2.7903	503.00	.50547	1.6127	13.389
#1	-.00058	.22934	.00199	.05503	.30364	.00003	51.203	-.00023	.00050
#2	-.00013	.24094	.00275	.05564	.29189	-.00006	51.571	-.00022	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.00118**	**5.6003**	**1.5674**	**1.7715**	**.00702**	**14.880**	**1.0363**	**.00046**
Stddev	.00044	.00006	.0327	.0007	.0092	.00110	.393	.0285	.00014
%RSD	445.27	5.0674	.58462	.04589	.51755	15.641	2.6412	2.7507	31.630
#1	.00041	.00122	5.5771	1.5679	1.7780	.00624	15.158	1.0565	.00056
#2	-.00021	.00114	5.6234	1.5669	1.7650	.00779	14.603	1.0162	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**32.325**	**-.00015**	**-.00093**	**.9156**	**.00181**	**-.00102**	**14.164**	**-.00015**	**.37742**
Stddev	.160	.00014	.00008	.0089	.00227	.00213	.020	.00033	.00322
%RSD	.49535	91.495	8.4263	.9737	125.57	208.51	.14072	216.40	.85362
#1	32.212	-.00005	-.00098	.9093	.00341	-.00252	14.178	-.00039	.37514
#2	32.438	-.00025	-.00087	.9219	.00020	.00048	14.150	.00008	.37970
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00630**	**-.00232**	**.00103**	**.00317**
Stddev	.00030	.00037	.00034	.00000
%RSD	4.7128	16.052	32.747	.07845
#1	.00609	-.00206	.00127	.00317
#2	.00651	-.00258	.00079	.00318
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4044.1**	**7054.4**	**64670.**	**10623.**
Stddev	31.6	50.3	1364.	23.
%RSD	.78225	.71351	2.1088	.21236
#1	4066.4	7089.9	63706.	10639.
#2	4021.7	7018.8	65635.	10607.

Sample Name: 480-30350-A-13-A Acquired: 12/19/2012 15:22:29 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00084**	**.18044**	**.00638**	**.06508**	**.44231**	**.00004**	**68.063**	**-.00035**	**.00019**
Stddev	.00056	.01209	.00089	.00022	.00010	.00002	.016	.00012	.00004
%RSD	66.831	6.6979	13.965	.33858	.02178	65.649	.02403	35.813	23.299
#1	-.00044	.17190	.00575	.06523	.44225	.00005	68.051	-.00043	.00015
#2	-.00124	.18899	.00701	.06492	.44238	.00002	68.075	-.00026	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00162**	**.00123**	**13.743**	**1.5270**	**1.8672**	**.00685**	**18.616**	**1.5848**	**.00004**
Stddev	.00076	.00015	.003	.0427	.0003	.00110	.059	.0041	.00013
%RSD	46.692	11.918	.02266	2.7966	.01578	16.055	.31553	.26093	314.22
#1	.00109	.00113	13.746	1.5572	1.8674	.00607	18.658	1.5877	-.00005
#2	.00216	.00133	13.741	1.4968	1.8670	.00763	18.575	1.5818	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**45.767**	**-.00029**	**-.00012**	**2.698**	**.00071**	**.00219**	**14.544**	**-.00015**	**.44260**
Stddev	.058	.00029	.00086	.000	.00029	.00424	.041	.00010	.00048
%RSD	.12759	100.19	712.68	.0079	40.097	193.08	.28011	62.583	.10905
#1	45.808	-.00009	.00049	2.698	.00051	.00519	14.573	-.00022	.44294
#2	45.725	-.00050	-.00073	2.698	.00092	-.00080	14.515	-.00009	.44226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00585**	**-.00107**	**.00144**	**.00619**
Stddev	.00000	.00201	.00015	.00023
%RSD	.02421	187.52	10.335	3.6539
#1	.00584	.00035	.00133	.00635
#2	.00585	-.00249	.00154	.00603
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3963.7**	**6980.4**	**63925.**	**10639.**
Stddev	6.5	16.3	70.	7.
%RSD	.16509	.23289	.10883	.06898
#1	3968.3	6991.9	63876.	10634.
#2	3959.1	6968.9	63974.	10644.

Sample Name: 480-30350-A-14-A Acquired: 12/19/2012 15:24:46 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00127**	**.03032**	**.01603**	**1.5964**	**.64641**	**.00001**	**124.77**	**-.00021**	**.00240**
Stddev	.00124	.00148	.00022	.0031	.00148	.00004	.17	.00011	.00001
%RSD	97.327	4.8771	1.3623	.19200	.22894	741.84	.13367	53.162	.34518
#1	-.00040	.03136	.01619	1.5985	.64536	-.00003	124.66	-.00013	.00239
#2	-.00215	.02927	.01588	1.5942	.64746	.00004	124.89	-.00029	.00240
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00078**	**.00154**	**18.451**	**3.3702**	**4.6809**	**.01404**	**40.166**	**2.0919**	**.00124**
Stddev	.00034	.00008	.057	.0460	.0434	.00096	.136	.0060	.00015
%RSD	43.604	5.0232	.30950	1.3640	.92651	6.8371	.33800	.28848	12.235
#1	.00102	.00159	18.492	3.4027	4.6503	.01336	40.262	2.0962	.00114
#2	.00054	.00148	18.411	3.3376	4.7116	.01472	40.070	2.0877	.00135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**96.856**	**.00320**	**-.00080**	**1.768**	**-.00028**	**.00273**	**14.587**	**-.00037**	**1.1819**
Stddev	.364	.00024	.00212	.012	.00067	.00044	.077	.00014	.0008
%RSD	.37598	7.4644	266.22	.6680	241.91	16.257	.53050	37.085	.07105
#1	96.599	.00337	.00070	1.776	.00020	.00242	14.641	-.00047	1.1825
#2	97.114	.00304	-.00230	1.759	-.00076	.00305	14.532	-.00027	1.1813
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00091**	**.00023**	**.00209**	**.00158**
Stddev	.00018	.00173	.00011	.00014
%RSD	20.086	750.50	5.1190	9.1375
#1	.00104	.00145	.00217	.00148
#2	.00078	-.00099	.00202	.00168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3756.4**	**6804.4**	**62711.**	**10476.**
Stddev	13.0	28.7	153.	53.
%RSD	.34557	.42185	.24453	.50687
#1	3747.3	6784.1	62603.	10513.
#2	3765.6	6824.7	62820.	10438.

Sample Name: CCV Acquired: 12/19/2012 15:27:07 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48919	23.857	.49369	.49416	.48259	.48516	24.225	.49620	.49058	.49622	.49417	23.678	24.233
Stddev	.00231	.263	.00300	.00080	.00642	.00266	.297	.00051	.00192	.00111	.00013	.131	.220
%RSD	.47244	1.1021	.60732	.16124	1.3302	.54770	1.2257	.10257	.39187	.22308	.02555	.55326	.90920
#1	.48755	23.671	.49157	.49360	.47805	.48328	24.015	.49656	.48922	.49544	.49426	23.585	24.077
#2	.49082	24.043	.49581	.49472	.48713	.48704	24.435	.49584	.49194	.49700	.49408	23.770	24.389
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.790	.48219	23.533	.48923	.49935	24.223	.49435	.49594	24.57	.50169	.49491	23.911	.51573
Stddev	.249	.00632	.056	.00106	.00033	.147	.00000	.00008	.06	.00192	.00588	.292	.00279
%RSD	1.0053	1.3098	.23874	.21584	.06707	.60535	.00022	.01583	.2379	.38220	1.1874	1.2207	.54140
#1	24.614	.47772	23.493	.48849	.49912	24.119	.49435	.49589	24.53	.50034	.49907	23.704	.51376
#2	24.966	.48665	23.572	.48998	.49959	24.327	.49435	.49600	24.62	.50305	.49076	24.117	.51771
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	.48500	.50109	.49600	.49010	.50058
Stddev	.00381	.00055	.00383	.00122	.00328
%RSD	.78601	.10939	.77316	.24812	.65426
#1	.48230	.50147	.49328	.48924	.49827
#2	.48769	.50070	.49871	.49096	.50290
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3976.3	7070.2	64569.	10519.
Stddev	5.2	.5	131.	88.
%RSD	.13112	.00737	.20364	.83334
#1	3980.0	7069.9	64662.	10581.
#2	3972.6	7070.6	64476.	10457.

Sample Name: CCB Acquired: 12/19/2012 15:29:20 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00032	.00373	-.00017	.00109	.00004	.00005	.01309	.00008	.00003	-.00056	.00058	.00443	-.00566
Stddev	.00132	.00784	.00068	.00047	.00001	.00002	.00071	.00006	.00010	.00001	.00003	.00170	.00726
%RSD	414.10	210.55	412.16	43.592	30.973	39.009	5.4154	76.371	314.77	1.2528	5.8089	38.276	128.38
#1	-.00125	.00927	-.00065	.00142	.00004	.00007	.01259	.00013	.00010	-.00057	.00061	.00563	-.01080
#2	.00061	-.00182	.00032	.00075	.00003	.00004	.01359	.00004	-.00004	-.00056	.00056	.00323	-.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00199	.00136	.00126	-.00003	.00019	.03467	-.00045	.00009	.0028	.00075	-.00074	-.01054	-.00065
Stddev	.00062	.00084	.00623	.00007	.00008	.00022	.00015	.00076	.0009	.00185	.00121	.00189	.00042
%RSD	31.178	61.421	492.94	210.84	43.042	.63231	33.149	840.62	30.73	246.66	163.21	17.898	65.407
#1	.00242	.00195	.00567	-.00008	.00013	.03452	-.00055	.00063	.0035	-.00056	-.00160	-.00921	-.00095
#2	.00155	.00077	-.00314	.00002	.00024	.03483	-.00034	-.00045	.0022	.00206	.00011	-.01187	-.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00001	-.00012	-.00253	.00007	.00003
Stddev	.00005	.00033	.00346	.00060	.00029
%RSD	468.19	282.54	136.79	894.20	859.61
#1	.00002	.00012	-.00008	-.00035	.00024
#2	-.00005	-.00035	-.00498	.00049	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4282.2	7152.0	66868.	10355.
Stddev	14.6	26.9	1384.	49.
%RSD	.34104	.37657	2.0699	.47791
#1	4271.9	7132.9	67847.	10390.
#2	4292.5	7171.0	65889.	10320.

Sample Name: 480-30350-A-15-A Acquired: 12/19/2012 15:31:40 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00005	.00795	.00528	.32484	.55528	.00008	122.69	-.00020	.00083
Stddev	.00073	.00091	.00136	.00165	.00421	.00013	.92	.00014	.00011
%RSD	1339.4	11.511	25.795	.50787	.75749	156.87	.74612	71.246	13.000
#1	-.00057	.00859	.00432	.32600	.55826	.00017	123.33	-.00030	.00091
#2	.00046	.00730	.00624	.32367	.55231	-.00001	122.04	-.00010	.00076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00111	.00097	11.736	2.0905	2.7344	.00888	35.681	2.5422	.00019
Stddev	.00046	.00012	.079	.0206	.0096	.00007	.415	.0335	.00011
%RSD	41.064	12.487	.67465	.98751	.35105	.74574	1.1617	1.3170	56.442
#1	.00079	.00088	11.792	2.0759	2.7412	.00893	35.388	2.5185	.00026
#2	.00144	.00106	11.680	2.1051	2.7276	.00884	35.975	2.5659	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	55.779	.00090	.00002	3.321	.00040	-.00010	16.346	-.00013	.74901
Stddev	.005	.00010	.00004	.002	.00222	.00293	.164	.00078	.00468
%RSD	.00962	11.620	215.21	.0453	559.55	2975.0	1.0018	600.80	.62496
#1	55.776	.00097	.00004	3.320	.00197	.00198	16.462	.00042	.75232
#2	55.783	.00082	-.00001	3.322	-.00117	-.00217	16.230	-.00068	.74570
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	.00084	-.00078	.00159	.00227
Stddev	.00098	.00283	.00030	.00000
%RSD	117.36	364.44	18.663	.02105
#1	.00153	-.00277	.00138	.00227
#2	.00014	.00122	.00180	.00227
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3840.1	6878.2	62761.	10587.
Stddev	11.6	17.5	580.	49.
%RSD	.30285	.25392	.92395	.46397
#1	3831.9	6865.9	63171.	10552.
#2	3848.3	6890.6	62351.	10621.

Sample Name: 480-30350-A-16-A Acquired: 12/19/2012 15:33:57 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00004	.02949	.00365	.05999	.34106	-.00001	79.152	-.00004	.00005
Stddev	.00037	.00757	.00002	.00022	.00013	.00001	.154	.00020	.00014
%RSD	833.79	25.662	.41614	.36469	.03953	107.64	.19419	542.33	256.09
#1	-.00030	.02414	.00364	.05984	.34097	.00000	79.260	-.00017	.00015
#2	.00022	.03484	.00366	.06015	.34116	-.00002	79.043	.00010	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00068	.00100	6.3420	2.1255	2.5594	.01252	22.978	1.9086	.00026
Stddev	.00004	.00030	.0277	.0029	.0077	.00122	.084	.0051	.00025
%RSD	5.2315	30.294	.43732	.13632	.30014	9.7438	.36726	.26940	98.469
#1	.00071	.00078	6.3616	2.1234	2.5540	.01165	23.038	1.9122	.00008
#2	.00066	.00121	6.3224	2.1275	2.5648	.01338	22.919	1.9049	.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	42.451	-.00049	.00053	.1612	.00117	.00264	13.777	-.00042	.72743
Stddev	.134	.00030	.00180	.0037	.00086	.00304	.035	.00030	.00359
%RSD	.31623	60.518	338.44	2.284	73.327	115.05	.25517	70.638	.49376
#1	42.546	-.00028	.00181	.1586	.00056	.00049	13.752	-.00021	.72997
#2	42.356	-.00070	-.00074	.1638	.00178	.00479	13.802	-.00064	.72489
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	.00087	.00032	.00114	.00180
Stddev	.00048	.00039	.00016	.00013
%RSD	55.137	122.42	13.789	7.2408
#1	.00121	.00004	.00103	.00171
#2	.00053	.00060	.00125	.00189
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3946.4	6962.4	63932.	10626.
Stddev	4.5	8.9	136.	34.
%RSD	.11319	.12788	.21221	.31662
#1	3949.5	6968.7	63836.	10650.
#2	3943.2	6956.1	64028.	10603.

Sample Name: 480-30369-E-1-A Acquired: 12/19/2012 15:36:10 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00087**	**.01408**	**.00067**	**.01737**	**.31585**	**.00004**	**104.55**	**.00000**	**.00001**
Stddev	.00021	.00660	.00045	.00021	.00347	.00002	.30	.00002	.00003
%RSD	23.830	46.834	67.320	1.2242	1.0996	39.936	.28302	5980.2	289.61
#1	-.00102	.01875	.00035	.01722	.31340	.00005	104.76	-.00002	-.00001
#2	-.00073	.00942	.00099	.01752	.31831	.00003	104.34	.00002	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**.00114**	**.44721**	**1.9092**	**2.5838**	**.01607**	**27.678**	**.04283**	**.00218**
Stddev	.00020	.00035	.00062	.0216	.0122	.00187	.345	.00037	.00047
%RSD	64.336	30.376	.13785	1.1339	.47063	11.661	1.2481	.85283	21.406
#1	.00017	.00138	.44765	1.9246	2.5924	.01475	27.434	.04257	.00251
#2	.00046	.00089	.44678	1.8939	2.5752	.01740	27.922	.04309	.00185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**84.882**	**-.00006**	**.00048**	F **10.38**	**.00069**	**.00159**	**5.8124**	**-.00048**	**.19037**
Stddev	.516	.00078	.00092	.02	.00009	.00301	.0171	.00037	.00024
%RSD	.60757	1275.1	192.10	.1592	13.486	189.77	.29468	76.873	.12357
#1	85.247	-.00061	-.00017	10.39	.00075	.00371	5.8245	-.00022	.19053
#2	84.517	.00049	.00112	10.37	.00062	-.00054	5.8003	-.00074	.19020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00076**	**-.00111**	**.00009**	**.00044**
Stddev	.00002	.00295	.00009	.00030
%RSD	2.0397	265.80	89.926	67.857
#1	.00077	.00098	.00016	.00023
#2	.00075	-.00320	.00003	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3848.8**	**6851.3**	**62996.**	**10481.**
Stddev	.2	3.5	329.	65.
%RSD	.00568	.05149	.52276	.61694
#1	3848.9	6848.8	63229.	10435.
#2	3848.6	6853.8	62763.	10526.

Sample Name: 480-30369-E-2-A Acquired: 12/19/2012 15:38:22 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00064**	**.00550**	**.00065**	**.03083**	**.07464**	**-.00005**	**127.38**	**.00014**	**.00885**
Stddev	.00021	.00666	.00057	.00027	.00010	.00002	.31	.00005	.00009
%RSD	32.917	121.24	87.427	.88233	.12979	34.402	.24646	34.689	1.0174
#1	-.00079	.00078	.00106	.03064	.07457	-.00003	127.60	.00018	.00879
#2	-.00049	.01021	.00025	.03102	.07470	-.00006	127.16	.00011	.00891
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**.00106**	**.62330**	**1.2815**	**1.5087**	**.02146**	**41.356**	**.08289**	**.00349**
Stddev	.00015	.00003	.00794	.0354	.0137	.00163	.093	.00004	.00039
%RSD	55.908	2.5422	1.2731	2.7610	.90956	7.6131	.22523	.04893	11.218
#1	.00016	.00105	.62891	1.3065	1.5184	.02030	41.290	.08286	.00377
#2	.00038	.00108	.61769	1.2565	1.4990	.02261	41.422	.08292	.00321
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.916**	**-.00003**	**.00121**	F **26.21**	**-.00030**	**.00113**	**7.3205**	**-.00010**	**.33617**
Stddev	.001	.00012	.00182	.21	.00031	.00139	.0144	.00021	.00041
%RSD	.00241	492.86	150.43	.8131	103.16	122.45	.19738	222.73	.12201
#1	24.916	.00006	-.00008	26.06	-.00052	.00211	7.3308	-.00025	.33646
#2	24.917	-.00011	.00250	26.36	-.00008	.00015	7.3103	.00005	.33588
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00058**	**-.00366**	**.00037**	**.00309**
Stddev	.00005	.00220	.00003	.00008
%RSD	8.3839	59.981	7.3031	2.6156
#1	.00055	-.00522	.00035	.00315
#2	.00062	-.00211	.00039	.00303
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3868.2**	**6825.7**	**63380.**	**10446.**
Stddev	21.8	37.3	287.	28.
%RSD	.56232	.54714	.45219	.26430
#1	3883.5	6852.1	63583.	10427.
#2	3852.8	6799.3	63178.	10466.

Sample Name: 480-30369-E-2-A SD@5 Acquired: 12/19/2012 15:40:35 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00083**	**.01204**	**-.00034**	**.00564**	**.01502**	**-.00002**	**25.404**	**-.00004**	**.00177**
Stddev	.00067	.01534	.00144	.00034	.00025	.00000	.021	.00012	.00005
%RSD	80.680	127.39	419.10	6.0907	1.6653	16.789	.08385	267.31	2.9578
#1	-.00036	.02289	.00067	.00540	.01484	-.00003	25.389	.00004	.00173
#2	-.00131	.00119	-.00136	.00588	.01519	-.00002	25.419	-.00013	.00181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00064**	**.12223**	**.20998**	**.22700**	**.00424**	**8.1959**	**.01647**	**.00055**
Stddev	.00026	.00002	.00412	.00152	.00126	.00016	.1396	.00013	.00030
%RSD	1181.4	3.6491	3.3715	.72447	.55400	3.8125	1.7038	.76898	54.454
#1	.00016	.00062	.12514	.21106	.22611	.00413	8.0971	.01638	.00034
#2	-.00021	.00065	.11931	.20891	.22788	.00436	8.2946	.01656	.00077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.9181**	**-.00022**	**-.00059**	**5.034**	**.00040**	**.00077**	**1.4136**	**-.00019**	**.06680**
Stddev	.0151	.00019	.00047	.067	.00186	.00001	.0142	.00015	.00005
%RSD	.30689	85.469	81.024	1.321	469.76	1.6595	1.0044	78.971	.07724
#1	4.9074	-.00009	-.00092	5.081	.00172	.00076	1.4036	-.00030	.06677
#2	4.9288	-.00035	-.00025	4.987	-.00092	.00078	1.4236	-.00009	.06684
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00028**	**-.00071**	**-.00008**	**.00019**
Stddev	.00032	.00009	.00006	.00041
%RSD	111.33	12.125	81.924	213.22
#1	.00006	-.00077	-.00003	.00048
#2	.00051	-.00065	-.00012	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4175.2**	**7102.6**	**65809.**	**10643.**
Stddev	39.5	77.8	523.	15.
%RSD	.94627	1.0959	.79463	.14265
#1	4147.3	7047.6	66178.	10632.
#2	4203.2	7157.7	65439.	10654.

Sample Name: 480-30369-E-2-A PDS Acquired: 12/19/2012 15:42:48 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04942	9.9426	.20930	.23898	.27746	.21002	133.55	.20956	.21792
Stddev	.00012	.1304	.00253	.00099	.00491	.00149	.81	.00081	.00137
%RSD	.24241	1.3115	1.2087	.41414	1.7701	.70988	.60591	.38820	.62827
#1	.04934	9.8504	.21109	.23968	.28093	.20897	132.98	.21014	.21889
#2	.04951	10.035	.20751	.23828	.27398	.21108	134.12	.20899	.21695
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20659	.20965	10.508	11.274	13.490	.22379	50.205	.28067	.21587
Stddev	.00382	.00465	.054	.096	.100	.00222	.879	.00423	.00189
%RSD	1.8489	2.2195	.51602	.85320	.74318	.99178	1.7501	1.5087	.87534
#1	.20929	.21294	10.470	11.206	13.561	.22222	50.826	.28366	.21721
#2	.20389	.20636	10.547	11.342	13.419	.22536	49.584	.27768	.21454
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	34.261	.20482	.20717	F 25.36	.21307	.20591	17.214	.20743	.52810
Stddev	.221	.00123	.00057	.06	.00327	.00493	.068	.00109	.00334
%RSD	.64581	.59904	.27674	.2275	1.5339	2.3949	.39505	.52773	.63241
#1	34.104	.20569	.20758	25.40	.21538	.20939	17.165	.20820	.52574
#2	34.417	.20395	.20676	25.32	.21076	.20242	17.262	.20665	.53046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	.20535	.20815	.20935	.20981
Stddev	.00366	.00057	.00458	.00710
%RSD	1.7828	.27246	2.1858	3.3834
#1	.20793	.20855	.21259	.21483
#2	.20276	.20775	.20612	.20479
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3797.0	6869.7	62838.	10491.
Stddev	13.0	14.3	763.	19.
%RSD	.34117	.20748	1.2148	.17725
#1	3787.8	6859.7	62298.	10504.
#2	3806.2	6879.8	63378.	10478.

Sample Name: 480-30369-E-2-B MS Acquired: 12/19/2012 15:45:01 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05120	9.9215	.21241	.24313	.28004	.20879	134.85	.21079	.22018
Stddev	.00124	.0591	.00075	.00056	.00216	.00032	.71	.00043	.00065
%RSD	2.4149	.59559	.35285	.23054	.76964	.15362	.52489	.20226	.29622
#1	.05207	9.8797	.21294	.24353	.28156	.20857	134.35	.21109	.22065
#2	.05032	9.9633	.21188	.24274	.27851	.20902	135.35	.21049	.21972
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20473	.20939	10.475	11.219	13.308	.22238	51.201	.28378	.21762
Stddev	.00080	.00085	.048	.012	.202	.00099	.432	.00214	.00093
%RSD	.39260	.40650	.45526	.10857	1.5158	.44422	.84315	.75434	.42912
#1	.20530	.20999	10.442	11.211	13.165	.22168	51.507	.28529	.21828
#2	.20416	.20879	10.509	11.228	13.450	.22308	50.896	.28226	.21696
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	34.544	.20793	.20980	F 26.00	.21507	.20567	17.075	.20977	.53246
Stddev	.141	.00147	.00196	.06	.00391	.00130	.082	.00011	.00089
%RSD	.40848	.70518	.93471	.2271	1.8203	.62999	.47826	.05265	.16663
#1	34.444	.20897	.21119	26.05	.21784	.20658	17.018	.20969	.53184
#2	34.644	.20690	.20841	25.96	.21230	.20475	17.133	.20985	.53309
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	.20394	.20972	.20910	.20866
Stddev	.00206	.00211	.00259	.00091
%RSD	1.0081	1.0070	1.2385	.43419
#1	.20540	.21121	.21093	.20930
#2	.20249	.20822	.20726	.20802
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3770.0	6836.8	63016.	10582.
Stddev	2.0	6.1	513.	95.
%RSD	.05203	.08983	.81472	.89697
#1	3771.4	6841.2	62653.	10649.
#2	3768.6	6832.5	63379.	10515.

Sample Name: 480-30369-E-2-C MSD Acquired: 12/19/2012 15:47:12 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05269**	**10.076**	**.21250**	**.24188**	**.28673**	**.21005**	**134.87**	**.21033**	**.21985**
Stddev	.00150	.140	.00259	.00102	.00631	.00179	1.61	.00026	.00122
%RSD	2.8463	1.3861	1.2198	.42108	2.2020	.84995	1.1930	.12545	.55711
#1	.05375	9.9768	.21066	.24260	.29120	.20879	133.73	.21052	.22071
#2	.05163	10.174	.21433	.24116	.28227	.21131	136.00	.21014	.21898
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21050**	**.21466**	**10.556**	**11.371**	**13.513**	**.22536**	**52.071**	**.29087**	**.21664**
Stddev	.00559	.00467	.051	.123	.109	.00335	1.342	.00761	.00010
%RSD	2.6575	2.1744	.47917	1.0813	.80348	1.4855	2.5776	2.6160	.04398
#1	.21446	.21796	10.520	11.284	13.436	.22299	53.020	.29625	.21658
#2	.20655	.21136	10.592	11.458	13.590	.22773	51.122	.28549	.21671
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**34.515**	**.20575**	**.21090**	F **25.51**	**.21485**	**.20474**	**17.215**	**.20971**	**.53289**
Stddev	.306	.00029	.00038	.01	.00058	.00055	.174	.00091	.00549
%RSD	.88568	.14251	.18201	.0291	.27141	.26714	1.0111	.43618	1.0306
#1	34.299	.20554	.21117	25.50	.21526	.20435	17.092	.21036	.52900
#2	34.731	.20596	.21063	25.51	.21443	.20513	17.338	.20906	.53677
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.20980**	**.20922**	**.21406**	**.21421**
Stddev	.00521	.00284	.00472	.00521
%RSD	2.4850	1.3571	2.2063	2.4325
#1	.21349	.21122	.21740	.21790
#2	.20611	.20721	.21072	.21053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3797.7**	**6882.4**	**62040.**	**10461.**
Stddev	1.0	2.9	1304.	76.
%RSD	.02733	.04247	2.1010	.73000
#1	3797.0	6884.4	61118.	10515.
#2	3798.4	6880.3	62961.	10407.

Sample Name: 480-30369-E-3-A Acquired: 12/19/2012 15:49:24 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00071**	**.00157**	**-.00144**	**.01783**	**.32458**	**.00006**	**105.85**	**.00015**	**.00000**
Stddev	.00032	.01367	.00039	.00006	.00051	.00002	.91	.00008	.0001
%RSD	44.861	873.24	27.445	.32527	.15729	26.804	.85983	55.981	3750.1
#1	-.00094	-.00810	-.00116	.01779	.32494	.00005	105.21	.00021	-.00007
#2	-.00049	.01123	-.00172	.01787	.32422	.00007	106.49	.00009	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00079**	**.00149**	**.45808**	**1.9515**	**2.5990**	**.01529**	**28.230**	**.04553**	**.00289**
Stddev	.00065	.00054	.00295	.0244	.0021	.00027	.000	.00001	.00016
%RSD	82.142	36.308	.64497	1.2485	.08083	1.7385	.00151	.02662	5.6109
#1	.00125	.00187	.45599	1.9343	2.5975	.01548	28.230	.04553	.00278
#2	.00033	.00111	.46017	1.9688	2.6005	.01510	28.230	.04554	.00300
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**85.641**	**-.00033**	**.00044**	F **10.78**	**.00104**	**-.00158**	**5.8982**	**-.00020**	**.19175**
Stddev	.563	.00036	.00086	.05	.00060	.00021	.0097	.00029	.00225
%RSD	.65718	110.31	194.54	.4413	57.372	13.075	.16374	144.01	1.1713
#1	85.243	-.00007	-.00017	10.82	.00062	-.00173	5.9051	-.00040	.19017
#2	86.039	-.00058	.00105	10.75	.00146	-.00144	5.8914	.00000	.19334
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00102**	**-.00105**	**.00009**	**.00089**
Stddev	.00066	.00129	.00041	.00010
%RSD	64.332	123.15	459.90	11.163
#1	.00148	-.00196	-.00020	.00082
#2	.00056	-.00014	.00038	.00096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3804.3**	**6785.2**	**62822.**	**10514.**
Stddev	9.1	20.7	271.	48.
%RSD	.23906	.30518	.43071	.45305
#1	3797.9	6770.6	63013.	10548.
#2	3810.8	6799.9	62631.	10480.

Sample Name: MB 480-96426/1-A Acquired: 12/19/2012 15:51:36 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00105**	**.01318**	**-.00006**	**.00184**	**.00010**	**.00001**	**.04735**	**-.00005**	**.00014**
Stddev	.00014	.02099	.00061	.00039	.00002	.00005	.00398	.00001	.00012
%RSD	13.216	159.24	1105.0	21.195	20.658	518.47	8.4023	23.080	85.586
#1	-.00095	-.00166	-.00049	.00212	.00009	.00004	.05016	-.00004	.00023
#2	-.00115	.02803	.00038	.00156	.00012	-.00003	.04453	-.00006	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**.00087**	**.00536**	**-.01758**	**.00257**	**.00014**	**-.00011**	**.00001**	**-.00021**
Stddev	.00088	.00011	.00198	.00708	.00044	.00014	.00933	.00002	.00003
%RSD	205.87	12.934	37.043	40.244	17.191	94.990	8755.5	120.55	15.116
#1	.00019	.00079	.00676	-.02259	.00226	.00005	.00649	.00000	-.00019
#2	-.00105	.00095	.00395	-.01258	.00288	.00024	-.00671	.00003	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00269**	**-.00017**	**.00050**	**.0021**	**.00065**	**.00052**	**-.00947**	**-.00022**	**.00005**
Stddev	.01251	.00000	.00007	.0053	.00286	.00059	.01374	.00001	.00000
%RSD	465.53	2.7292	14.048	250.6	437.48	115.17	145.08	6.1856	3.7212
#1	-.01153	-.00017	.00045	.0058	-.00137	.00010	-.01919	-.00023	.00005
#2	.00616	-.00017	.00055	-.0016	.00268	.00094	.00025	-.00021	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**-.00042**	**-.00135**	**.00032**	**.00045**
Stddev	.00037	.00003	.00015	.00012
%RSD	86.514	2.4266	48.452	27.449
#1	-.00068	-.00133	.00021	.00036
#2	-.00016	-.00138	.00042	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4345.7**	**7283.7**	**66675.**	**10658.**
Stddev	1.3	3.6	770.	29.
%RSD	.02975	.05002	1.1547	.26988
#1	4344.8	7286.3	67219.	10678.
#2	4346.6	7281.1	66131.	10638.

Sample Name: CCV Acquired: 12/19/2012 15:53:54 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50023	24.295	.50198	.49776	.49251	.49428	24.718	.50104	.49617	.50452	.50099	24.098	24.701
Stddev	.00453	.079	.00337	.00114	.00174	.00219	.061	.00191	.00128	.00213	.00534	.063	.018
%RSD	.90599	.32548	.67201	.22951	.35333	.44274	.24534	.38200	.25813	.42208	1.0654	.25945	.07115
#1	.50343	24.239	.49960	.49695	.49128	.49273	24.676	.49969	.49526	.50603	.50477	24.054	24.688
#2	.49702	24.351	.50437	.49856	.49374	.49583	24.761	.50239	.49707	.50302	.49722	24.143	24.713
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.005	.49078	24.131	.50084	.50409	24.614	.49896	.50229	24.78	.50864	.49834	24.357	.51965
Stddev	.065	.00272	.137	.00349	.00182	.089	.00028	.00367	.10	.00436	.00237	.146	.00099
%RSD	.26032	.55341	.56963	.69587	.36166	.36290	.05609	.73080	.3944	.85775	.47550	.60086	.19057
#1	25.051	.48886	24.228	.50331	.50280	24.551	.49876	.49970	24.71	.50555	.50002	24.254	.51895
#2	24.958	.49270	24.034	.49838	.50538	24.678	.49916	.50489	24.85	.51172	.49667	24.461	.52035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	.49518	.50488	.50053	.49893	.50831
Stddev	.00272	.00429	.00374	.00413	.00432
%RSD	.54926	.84881	.74778	.82872	.84936
#1	.49326	.50791	.49788	.50185	.51136
#2	.49711	.50185	.50317	.49600	.50526
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3938.1	7009.2	63761.	10359.
Stddev	21.3	33.1	455.	16.
%RSD	.54026	.47218	.71293	.15559
#1	3953.2	7032.6	63440.	10371.
#2	3923.1	6985.8	64082.	10348.

Sample Name: CCB Acquired: 12/19/2012 15:56:08 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00053	.01649	-.00010	.00039	.00003	-.00001	.01433	.00000	-.00013	-.00044	.00077	.00175	.00898
Stddev	.00082	.00982	.00231	.00002	.00001	.00006	.00195	.0000	.00002	.00010	.00017	.00304	.01695
%RSD	155.78	59.560	2310.6	5.7329	22.342	1057.1	13.590	1009.5	16.757	22.053	21.709	173.69	188.84
#1	.00005	.00955	.00153	.00040	.00003	-.00005	.01296	-.00002	-.00014	-.00050	.00065	.00390	-.00301
#2	-.00111	.02344	-.00173	.00037	.00002	.00004	.01571	.00001	-.00011	-.00037	.00089	-.00040	.02096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00222	.00086	.00278	-.00001	.00023	.02422	-.00019	-.00145	.0000	.00137	.00128	-.00719	-.00051
Stddev	.00071	.00033	.00092	.00001	.00011	.00750	.00017	.00322	.002	.00007	.00036	.00049	.00042
%RSD	31.798	38.984	33.123	45.319	47.477	30.969	89.342	222.94	6707.	5.4589	27.749	6.8416	83.046
#1	.00272	.00109	.00213	-.00001	.00031	.02952	-.00031	.00083	.0017	.00132	.00153	-.00754	-.00081
#2	.00172	.00062	.00343	-.00002	.00015	.01891	-.00007	-.00373	-.0017	.00142	.00103	-.00685	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00010	.00004	-.00279	.00041	-.00013
Stddev	.00006	.00067	.00023	.00014	.00057
%RSD	64.626	1653.7	8.3797	34.257	431.96
#1	-.00005	.00051	-.00262	.00051	.00027
#2	-.00014	-.00043	-.00295	.00031	-.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4293.2	7169.5	66471.	10332.
Stddev	13.2	13.4	583.	131.
%RSD	.30774	.18629	.87703	1.2702
#1	4302.5	7178.9	66883.	10425.
#2	4283.8	7160.0	66059.	10240.

Sample Name: LCS 480-96426/2-A Acquired: 12/19/2012 15:58:27 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05090	9.8997	.20583	.20979	.20749	.20980	10.076	.20775	.20960
Stddev	.00099	.0763	.00159	.00003	.00003	.00127	.050	.00104	.00168
%RSD	1.9395	.77039	.77012	.01343	.01320	.60604	.49729	.49846	.79981
#1	.05020	9.9536	.20696	.20981	.20750	.21070	10.111	.20849	.21078
#2	.05160	9.8457	.20471	.20977	.20747	.20890	10.041	.20702	.20841
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20876	.20900	10.109	10.003	9.4681	.20157	10.028	.20485	.21431
Stddev	.00056	.00043	.059	.055	.0692	.00168	.015	.00025	.00171
%RSD	.26684	.20446	.58352	.54536	.73061	.83180	.14864	.12181	.79560
#1	.20916	.20869	10.151	10.041	9.5170	.20275	10.039	.20502	.21552
#2	.20837	.20930	10.067	9.9640	9.4192	.20038	10.018	.20467	.21311
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.010	.20646	.20813	F -.0068	.21057	.19905	9.8483	.20260	.20124
Stddev	.030	.00130	.00019	.0004	.00199	.00110	.0480	.00123	.00072
%RSD	.29476	.62929	.09288	6.435	.94440	.55124	.48724	.60756	.35619
#1	10.031	.20737	.20827	-.0071	.21198	.19983	9.8823	.20347	.20175
#2	9.9895	.20554	.20800	-.0064	.20917	.19828	9.8144	.20173	.20074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				11.50					
Low Limit				8.500					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	.20380	.20874	.20782	.21453
Stddev	.00008	.00272	.00014	.00222
%RSD	.04041	1.3015	.06618	1.0349
#1	.20374	.21066	.20772	.21296
#2	.20386	.20682	.20792	.21610
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4189.3	7251.5	66741.	10818.
Stddev	4.7	9.2	203.	55.
%RSD	.11141	.12689	.30343	.50435
#1	4186.0	7245.0	66884.	10779.
#2	4192.6	7258.0	66598.	10857.

Sample Name: 480-30367-Q-1-A Acquired: 12/19/2012 16:00:39 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00083**	**.48453**	**.00083**	**.25814**	**.50161**	**.00002**	**85.061**	**-.00022**	**-.00009**
Stddev	.00045	.00652	.00061	.00075	.00083	.00006	.167	.00009	.00001
%RSD	54.010	1.3454	73.968	.29124	.16546	366.04	.19586	40.966	8.0434
#1	-.00052	.47992	.00039	.25867	.50102	-.00003	84.943	-.00029	-.00009
#2	-.00115	.48914	.00126	.25761	.50220	.00006	85.178	-.00016	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**.00186**	**.65330**	**8.9114**	**10.157**	**.06274**	**17.302**	**.29239**	**.00027**
Stddev	.00010	.00003	.00304	.0582	.110	.00037	.011	.00048	.00020
%RSD	26.591	1.4691	.46592	.65349	1.0808	.58742	.06631	.16505	73.921
#1	.00031	.00184	.65115	8.8703	10.080	.06300	17.310	.29273	.00013
#2	.00046	.00188	.65546	8.9526	10.235	.06248	17.294	.29205	.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**42.233**	**.00020**	**.00149**	F **12.21**	**.00093**	**-.00020**	**7.0921**	**-.00022**	**2.3204**
Stddev	.114	.00023	.00057	.05	.00037	.00054	.0088	.00013	.0042
%RSD	.27054	113.49	38.341	.3895	40.304	272.94	.12431	59.602	.17887
#1	42.152	.00004	.00109	12.25	.00066	.00018	7.0859	-.00013	2.3174
#2	42.314	.00037	.00189	12.18	.00119	-.00057	7.0983	-.00031	2.3233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.01569**	**-.00394**	**.00072**	**.00210**
Stddev	.00191	.00077	.00024	.00020
%RSD	12.145	19.449	32.770	9.3952
#1	.01704	-.00340	.00055	.00196
#2	.01435	-.00448	.00089	.00224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3952.6**	**6936.2**	**63843.**	**10526.**
Stddev	10.1	9.4	144.	50.
%RSD	.25615	.13545	.22541	.47724
#1	3945.4	6929.6	63945.	10561.
#2	3959.7	6942.9	63741.	10490.

Sample Name: 480-30367-Q-2-A Acquired: 12/19/2012 16:03:02 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00110**	**6.3099**	**.00329**	**.30548**	**.06294**	**.00026**	**4.5329**	**-.00035**	**.00259**
Stddev	.00048	.0463	.00201	.00406	.00011	.00002	.0105	.00009	.00008
%RSD	43.953	.73374	61.115	1.3292	.17470	7.5105	.23259	26.154	3.1947
#1	-.00076	6.3426	.00187	.30836	.06302	.00025	4.5404	-.00042	.00265
#2	-.00144	6.2772	.00471	.30261	.06287	.00028	4.5255	-.00029	.00253
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00861**	**.00785**	**6.2702**	**6.0087**	**8.4767**	**.26794**	**2.3244**	**.14181**	**.00108**
Stddev	.00075	.00016	.0087	.0256	.0233	.00029	.0016	.00012	.00004
%RSD	8.7186	2.1005	.13929	.42567	.27449	.10939	.06950	.08416	3.6804
#1	.00808	.00796	6.2764	5.9907	8.4602	.26773	2.3233	.14189	.00111
#2	.00914	.00773	6.2640	6.0268	8.4931	.26815	2.3256	.14172	.00105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**192.24**	**.00512**	**.00109**	**8.168**	**-.00109**	**-.00308**	**16.008**	**.00093**	**.11519**
Stddev	.73	.00033	.00043	.108	.00024	.00021	.033	.00021	.00049
%RSD	.37766	6.3922	39.631	1.326	22.113	6.6900	.20721	22.914	.42550
#1	192.75	.00488	.00079	8.245	-.00092	-.00322	16.032	.00108	.11554
#2	191.73	.00535	.00140	8.092	-.00126	-.00293	15.985	.00078	.11484
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.16176**	**-.00154**	**.01215**	**.03005**
Stddev	.00881	.00047	.00004	.00055
%RSD	5.4481	30.390	.33461	1.8170
#1	.15553	-.00187	.01213	.03043
#2	.16799	-.00121	.01218	.02966
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3834.2**	**6935.3**	**62876.**	**10576.**
Stddev	36.1	71.4	77.	62.
%RSD	.94247	1.0298	.12202	.58684
#1	3808.7	6884.8	62930.	10620.
#2	3859.8	6985.8	62822.	10532.

Sample Name: 480-30367-Q-3-A Acquired: 12/19/2012 16:05:24 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.09018**	**-.00063**	**.33009**	**.10722**	**-.00001**	**18.220**	**-.00010**	**-.00016**
Stddev	.00135	.00917	.00250	.00201	.00008	.00008	.063	.00005	.00005
%RSD	8185.2	10.166	394.37	.60773	.07757	501.87	.34772	51.254	33.166
#1	.00097	.09667	-.00240	.32867	.10716	.00004	18.175	-.00014	-.00012
#2	-.00094	.08370	.00114	.33151	.10728	-.00007	18.265	-.00007	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00107**	**.03966**	**7.0824**	**8.4003**	**.07888**	**4.5472**	**.04290**	**.00024**
Stddev	.00016	.00015	.00170	.0015	.0497	.00049	.0058	.00005	.00007
%RSD	59.006	13.579	4.2982	.02060	.59195	.61791	.12660	.12752	27.090
#1	.00039	.00118	.04087	7.0813	8.3652	.07922	4.5431	.04294	.00029
#2	.00016	.00097	.03846	7.0834	8.4355	.07853	4.5512	.04286	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**69.332**	**-.00036**	**.00064**	F **17.16**	**-.00114**	**.00285**	**5.6100**	**-.00041**	**.68922**
Stddev	.099	.00044	.00050	.06	.00055	.00562	.0034	.00027	.00048
%RSD	.14350	124.03	77.666	.3268	47.849	197.18	.06033	65.363	.06997
#1	69.261	-.00004	.00029	17.12	-.00153	.00683	5.6124	-.00022	.68888
#2	69.402	-.00067	.00099	17.20	-.00076	-.00112	5.6076	-.00060	.68956
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00113**	**-.00163**	**.00074**	**.00052**
Stddev	.00025	.00194	.00014	.00024
%RSD	22.553	119.01	19.171	46.537
#1	.00131	-.00301	.00064	.00035
#2	.00095	-.00026	.00085	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4036.4**	**7027.7**	**64529.**	**10533.**
Stddev	28.2	42.6	144.	50.
%RSD	.69881	.60566	.22276	.47273
#1	4056.3	7057.8	64630.	10568.
#2	4016.5	6997.6	64427.	10498.

Sample Name: 480-30367-Q-4-A Acquired: 12/19/2012 16:07:41 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00027	.32801	-.00182	.41591	.09166	-.00001	5.0242	-.00003	.00019
Stddev	.00102	.00239	.00010	.00265	.00015	.00001	.0364	.00023	.00004
%RSD	382.42	.72821	5.6342	.63633	.16839	97.765	.72533	693.27	23.341
#1	.00099	.32970	-.00175	.41779	.09177	.00000	5.0499	-.00020	.00022
#2	-.00045	.32632	-.00189	.41404	.09155	-.00001	4.9984	.00013	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00040	.00119	.15554	5.6951	7.9724	.18169	1.0792	.01515	.00010
Stddev	.00040	.00053	.00915	.0337	.0279	.00103	.0076	.00006	.00012
%RSD	99.544	44.249	5.8796	.59139	.35000	.56598	.70455	.41219	130.24
#1	.00068	.00082	.14907	5.7189	7.9922	.18242	1.0739	.01511	.00001
#2	.00012	.00157	.16201	5.6713	7.9527	.18097	1.0846	.01520	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	163.30	-.00045	-.00070	F 53.59	.00026	-.00091	5.4160	.00021	.26251
Stddev	1.44	.00004	.00110	.16	.00014	.00415	.0517	.00054	.00192
%RSD	.88319	8.0475	156.11	.3034	51.594	457.36	.95558	254.24	.73024
#1	164.32	-.00047	.00007	53.71	.00017	-.00384	5.4526	-.00017	.26386
#2	162.28	-.00042	-.00148	53.48	.00036	.00203	5.3794	.00059	.26115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	.00691	-.00230	.00071	.00300
Stddev	.00115	.00011	.00002	.00009
%RSD	16.642	4.8834	3.0200	3.0784
#1	.00772	-.00222	.00073	.00306
#2	.00609	-.00238	.00070	.00293
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3915.7	6950.8	63396.	10490.
Stddev	5.3	18.2	15.	62.
%RSD	.13623	.26131	.02290	.58940
#1	3911.9	6938.0	63386.	10446.
#2	3919.5	6963.7	63407.	10534.

Sample Name: 480-30367-Q-5-A Acquired: 12/19/2012 16:10:04 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00105**	**.03454**	**-.00170**	**.34572**	**.08914**	**.00005**	**38.852**	**-.00006**	**-.00003**
Stddev	.00009	.00882	.00273	.00077	.00077	.00002	.007	.00004	.00003
%RSD	9.0193	25.527	160.41	.22291	.86577	40.428	.01710	68.982	98.458
#1	-.00098	.04078	-.00363	.34517	.08860	.00004	38.847	-.00009	-.00005
#2	-.00111	.02831	.00023	.34626	.08969	.00007	38.857	-.00003	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.00134**	**.01851**	**8.8228**	**12.106**	**.15813**	**11.561**	**.05416**	**.00014**
Stddev	.00004	.00022	.00187	.0103	.102	.00003	.047	.00017	.00003
%RSD	25.610	16.356	10.093	.11704	.84066	.02193	.40439	.30877	25.345
#1	-.00013	.00118	.01719	8.8301	12.034	.15811	11.528	.05404	.00011
#2	-.00019	.00149	.01983	8.8155	12.178	.15815	11.594	.05428	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**141.92**	**-.00071**	**-.00135**	F **89.49**	**.00031**	**-.00233**	**6.1285**	**-.00030**	**1.2248**
Stddev	.14	.00015	.00131	.21	.00243	.00088	.0325	.00067	.0012
%RSD	.09786	21.715	96.954	.2315	775.35	37.665	.52973	222.12	.09348
#1	141.82	-.00082	-.00042	89.34	.00203	-.00171	6.1055	.00017	1.2256
#2	142.02	-.00060	-.00227	89.63	-.00140	-.00295	6.1514	-.00078	1.2240
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00034**	**.00037**	**.00039**	**.00060**
Stddev	.00004	.00236	.00027	.00015
%RSD	10.171	639.00	68.747	25.320
#1	.00037	-.00130	.00059	.00071
#2	.00032	.00204	.00020	.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3887.3**	**6929.1**	**62712.**	**10566.**
Stddev	16.3	23.1	621.	65.
%RSD	.41996	.33315	.99100	.61919
#1	3898.8	6945.4	63151.	10613.
#2	3875.7	6912.7	62272.	10520.

Sample Name: 480-30367-Q-6-A Acquired: 12/19/2012 16:12:21 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00162**	**59.702**	**.01455**	**.43816**	**.28273**	**.00225**	**7.7498**	F **-.00221**	**.04116**
Stddev	.00027	.071	.00178	.00177	.00137	.00007	.0264	.00012	.00015
%RSD	16.465	.11950	12.266	.40443	.48371	3.1749	.34085	5.2245	.36044
#1	-.00143	59.652	.01581	.43690	.28369	.00220	7.7685	-.00213	.04105
#2	-.00181	59.752	.01328	.43941	.28176	.00230	7.7311	-.00229	.04126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit								15.000	
Low Limit								-.00100	

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08174**	**.04665**	**82.200**	**17.820**	**24.669**	**.35280**	**25.710**	**.99455**	**.00199**
Stddev	.00040	.00020	.002	.016	.305	.00025	.166	.00612	.00026
%RSD	.49211	.42251	.00279	.08954	1.2379	.07113	.64705	.61532	12.857
#1	.08203	.04679	82.199	17.809	24.453	.35262	25.828	.99888	.00181
#2	.08146	.04651	82.202	17.832	24.885	.35298	25.592	.99022	.00217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**190.41**	**.09339**	**.02531**	F **19.05**	**-.00172**	**.00018**	**75.179**	**.00510**	**.21356**
Stddev	.37	.00040	.00001	.06	.00048	.00163	.316	.00055	.00050
%RSD	.19418	.42866	.05470	.3258	27.717	901.53	.42032	10.718	.23377
#1	190.67	.09368	.02532	19.01	-.00206	.00134	75.402	.00471	.21391
#2	190.15	.09311	.02530	19.10	-.00138	-.00097	74.955	.00548	.21321
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.90011**	**-.00294**	**.10752**	**.18741**
Stddev	.03597	.00025	.00101	.00051
%RSD	3.9964	8.3424	.94225	.27322
#1	.87467	-.00277	.10824	.18777
#2	.92554	-.00312	.10681	.18705
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3766.7**	**7113.8**	**64233.**	**10719.**
Stddev	8.1	19.6	315.	39.
%RSD	.21517	.27540	.49117	.36633
#1	3772.4	7127.7	64010.	10747.
#2	3760.9	7100.0	64456.	10692.

Sample Name: 480-30367-Q-7-A Acquired: 12/19/2012 16:14:40 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00066**	**.17859**	**-.00184**	**.20896**	**.25959**	**-.00004**	**17.256**	**-.00012**	**-.00007**
Stddev	.00130	.00891	.00032	.00016	.00004	.00003	.348	.00013	.00016
%RSD	198.02	4.9885	17.519	.07674	.01435	66.510	2.0167	110.44	232.86
#1	-.00158	.18489	-.00207	.20908	.25957	-.00006	17.502	-.00022	-.00018
#2	.00026	.17229	-.00162	.20885	.25962	-.00002	17.010	-.00003	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00100**	**.22224**	**5.4942**	**6.3005**	**.06246**	**5.1600**	**.04233**	**.00170**
Stddev	.00017	.00021	.00454	.0734	.1007	.00084	.0197	.00028	.00010
%RSD	1534.6	20.530	2.0411	1.3356	1.5986	1.3459	.38205	.66823	6.0454
#1	.00011	.00115	.22545	5.5460	6.3717	.06305	5.1461	.04213	.00163
#2	-.00013	.00086	.21903	5.4423	6.2292	.06186	5.1740	.04253	.00177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**56.760**	**-.00019**	**.00005**	F **10.70**	**-.00006**	**.00294**	**5.9780**	**-.00050**	**.57031**
Stddev	.991	.00021	.00006	.03	.00036	.00091	.0790	.00007	.01275
%RSD	1.7457	112.65	119.31	.2474	583.12	30.874	1.3224	13.761	2.2359
#1	57.460	-.00004	.00010	10.72	-.00032	.00359	6.0339	-.00055	.57932
#2	56.059	-.00034	.00001	10.68	.00019	.00230	5.9221	-.00045	.56129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00621**	**-.00016**	**.00035**	**.00048**
Stddev	.00224	.00237	.00008	.00011
%RSD	36.122	1521.3	24.056	22.862
#1	.00780	-.00183	.00029	.00056
#2	.00463	.00152	.00040	.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4059.7**	**7039.6**	**64633.**	**10635.**
Stddev	3.0	7.1	68.	128.
%RSD	.07362	.10054	.10451	1.1995
#1	4061.9	7044.6	64681.	10545.
#2	4057.6	7034.6	64586.	10725.

Sample Name: 480-30367-Q-9-A Acquired: 12/19/2012 16:16:53 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00075**	**5.8019**	**-.00032**	**.16122**	**.14953**	**.00012**	**52.832**	**-.00031**	**.00223**
Stddev	.00081	.0002	.00014	.00024	.00127	.00004	.174	.00000	.00010
%RSD	109.27	.00389	42.459	.14890	.85127	30.700	.32997	.45826	4.3227
#1	-.00132	5.8017	-.00042	.16139	.14863	.00009	52.955	-.00031	.00216
#2	-.00017	5.8020	-.00023	.16105	.15043	.00014	52.708	-.00031	.00230
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01006**	**.00515**	**4.5886**	**16.250**	**17.231**	**.01378**	**19.017**	**.10380**	**.00963**
Stddev	.00026	.00019	.0074	.014	.087	.00053	.138	.00078	.00012
%RSD	2.6327	3.6130	.16052	.08919	.50403	3.8178	.72475	.75198	1.2475
#1	.00988	.00528	4.5833	16.240	17.170	.01415	18.920	.10325	.00972
#2	.01025	.00502	4.5938	16.260	17.293	.01341	19.115	.10435	.00955
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**29.302**	**.00506**	**.00122**	F **27.32**	**.00013**	**.00138**	**17.557**	**.00054**	**.67162**
Stddev	.025	.00015	.00056	.22	.00064	.00140	.022	.00001	.00082
%RSD	.08575	2.8754	46.004	.7999	490.35	101.46	.12575	2.2346	.12160
#1	29.320	.00496	.00162	27.48	-.00032	.00238	17.573	.00055	.67220
#2	29.284	.00516	.00082	27.17	.00059	.00039	17.542	.00053	.67105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.24786**	**-.00043**	**.01102**	**.00989**
Stddev	.01725	.00015	.00039	.00008
%RSD	6.9592	34.199	3.5180	.79519
#1	.23566	-.00054	.01075	.00983
#2	.26006	-.00033	.01130	.00994
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4013.6**	**7050.5**	**64826.**	**10722.**
Stddev	23.3	35.8	220.	2.
%RSD	.58102	.50814	.33867	.02138
#1	3997.1	7025.1	64982.	10724.
#2	4030.1	7075.8	64671.	10721.

Sample Name: 480-30368-A-1-A Acquired: 12/19/2012 16:19:09 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00101**	**.03669**	**.00887**	**.13370**	**.05885**	**-.00006**	**190.89**	**.00013**	**.00012**
Stddev	.00025	.01374	.00088	.00028	.00097	.00001	1.05	.00003	.00005
%RSD	25.027	37.443	9.9602	.20751	1.6545	10.769	.55084	23.504	36.896
#1	-.00083	.02697	.00950	.13350	.05954	-.00006	190.14	.00015	.00016
#2	-.00119	.04640	.00825	.13389	.05816	-.00005	191.63	.00010	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00391**	**.00167**	**.11222**	**15.152**	**27.991**	**.02742**	**31.808**	**.00497**	**.00278**
Stddev	.00001	.00015	.00167	.087	.143	.00118	.438	.00004	.00000
%RSD	.31472	9.1791	1.4857	.57498	.50978	4.3069	1.3761	.74295	.13354
#1	.00392	.00156	.11340	15.214	27.890	.02658	32.118	.00494	.00279
#2	.00391	.00178	.11105	15.091	28.092	.02825	31.499	.00499	.00278
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**829.36**	**.00583**	**.00045**	F **42.78**	**.00269**	**.00285**	**6.6667**	**-.00015**	**2.3611**
Stddev	4.52	.00070	.00081	.13	.00130	.00252	.0180	.00089	.0135
%RSD	.54530	11.970	179.77	.3010	48.405	88.535	.27040	571.81	.57307
#1	832.56	.00533	.00102	42.69	.00177	.00106	6.6795	-.00078	2.3707
#2	826.16	.00632	-.00012	42.87	.00361	.00463	6.6540	.00047	2.3516
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00258**	**-.00021**	**.00034**	**.00295**
Stddev	.00004	.00076	.00011	.00044
%RSD	1.7134	361.22	32.610	14.967
#1	.00255	.00033	.00042	.00263
#2	.00261	-.00075	.00026	.00326
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3331.8**	**6368.4**	**57489.**	**10193.**
Stddev	6.2	12.6	670.	13.
%RSD	.18572	.19832	1.1661	.12335
#1	3336.2	6377.3	57015.	10184.
#2	3327.4	6359.4	57963.	10201.

Sample Name: CCV Acquired: 12/19/2012 16:21:41 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49526	23.862	.50438	.50349	.48121	.48569	24.255	.50600	.50121	.50002	.49710	23.666	24.325
Stddev	.00360	.054	.00790	.00710	.00152	.00057	.084	.00661	.00587	.00347	.00220	.036	.043
%RSD	.72610	.22425	1.5663	1.4100	.31582	.11830	.34449	1.3068	1.1719	.69460	.44191	.15136	.17710
#1	.49272	23.900	.49879	.49847	.48228	.48610	24.314	.50133	.49706	.49756	.49555	23.691	24.356
#2	.49780	23.824	.50997	.50851	.48013	.48528	24.196	.51068	.50536	.50247	.49865	23.641	24.295
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.732	.48398	23.874	.49519	.50928	24.408	.50422	.50597	24.97	.50808	.50412	23.903	.52521
Stddev	.010	.00060	.126	.00279	.00661	.037	.00627	.00719	.33	.00518	.00839	.001	.00860
%RSD	.04075	.12463	.52964	.56396	1.2982	.14996	1.2426	1.4216	1.318	1.0187	1.6637	.00592	1.6370
#1	24.739	.48441	23.785	.49322	.50460	24.434	.49979	.50089	24.74	.50442	.49819	23.902	.51913
#2	24.725	.48356	23.964	.49717	.51395	24.382	.50865	.51106	25.20	.51174	.51005	23.904	.53129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	.48612	.50016	.50609	.49717	.50686
Stddev	.00002	.00469	.00670	.00400	.00467
%RSD	.00333	.93828	1.3236	.80538	.92110
#1	.48613	.49685	.50135	.49434	.50355
#2	.48611	.50348	.51083	.50000	.51016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3911.7	6961.1	64189.	10432.
Stddev	42.1	77.6	483.	25.
%RSD	1.0764	1.1146	.75271	.23582
#1	3941.5	7015.9	64530.	10414.
#2	3881.9	6906.2	63847.	10449.

Sample Name: CCB Acquired: 12/19/2012 16:23:54 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.00395**	**.00088**	**.00092**	**.00009**	**.00007**	**.01154**	**.00004**	**-.00006**	**-.00019**	**.00059**	**.00235**	**-.00369**
Stddev	.00023	.01152	.00163	.00004	.00007	.00004	.00007	.00018	.00000	.00067	.00019	.00156	.02396
%RSD	79.975	291.35	185.27	3.8851	79.504	53.490	.63515	451.27	5.5482	356.87	32.880	66.495	649.51
#1	-.00012	.01210	-.00027	.00089	.00014	.00004	.01149	-.00009	-.00005	-.00066	.00045	.00124	.01325
#2	-.00045	-.00419	.00203	.00094	.00004	.00010	.01159	.00017	-.00006	.00029	.00073	.00345	-.02063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00532**	**.00031**	**.00300**	**.00009**	**-.00020**	**.08630**	**-.00034**	**.00097**	F **.0088**	**.00040**	**.00069**	**.00282**	**.00005**
Stddev	.00064	.00090	.00180	.00014	.00013	.00453	.00062	.00083	.0005	.00043	.00105	.00051	.00032
%RSD	11.967	288.45	60.165	162.41	62.522	5.2442	182.24	85.571	5.230	107.47	151.58	18.028	667.38
#1	.00577	.00095	.00172	.00019	-.00029	.08950	.00010	.00155	.0085	.00070	-.00005	.00246	-.00018
#2	.00487	-.00032	.00427	-.00001	-.00011	.08310	-.00078	.00038	.0091	.00010	.00143	.00318	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									.0030				
Low Limit									-.0040				

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.00023**	**-.00143**	**-.00007**	**.00084**
Stddev	.00007	.00007	.00032	.00029	.00016
%RSD	434.81	31.735	22.481	405.49	18.624
#1	.00003	-.00018	-.00165	.00013	.00095
#2	-.00006	-.00028	-.00120	-.00028	.00073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4295.8**	**7167.3**	**65398.**	**10231.**
Stddev	33.9	54.0	236.	36.
%RSD	.78867	.75409	.36035	.35389
#1	4271.8	7129.1	65231.	10257.
#2	4319.7	7205.6	65565.	10206.

Sample Name: 480-30368-A-2-A Acquired: 12/19/2012 16:26:13 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00017	.01087	.00309	.21297	.08503	-.00003	180.75	.00003	-.00001
Stddev	.00104	.01303	.00209	.00115	.00046	.00001	1.02	.00011	.00005
%RSD	612.55	119.86	67.400	.54164	.53643	51.032	.56601	389.72	754.88
#1	-.00057	.00166	.00162	.21378	.08535	-.00002	181.48	.00011	.00003
#2	.00091	.02009	.00457	.21215	.08471	-.00004	180.03	-.00005	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00105	.00175	.23209	13.498	19.534	.03995	41.596	.01605	.00070
Stddev	.00048	.00032	.00418	.004	.140	.00137	.183	.00000	.00038
%RSD	45.197	18.357	1.8013	.02701	.71802	3.4172	.44013	.00096	53.795
#1	.00072	.00152	.22913	13.500	19.435	.04092	41.725	.01605	.00043
#2	.00139	.00197	.23504	13.495	19.633	.03899	41.466	.01605	.00096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	178.03	.00180	-.00034	F 85.56	.00127	-.00178	9.9141	-.00021	3.4416
Stddev	.13	.00009	.00100	.48	.00018	.00080	.0364	.00009	.0020
%RSD	.07426	5.1261	290.84	.5557	14.133	45.123	.36750	39.902	.05740
#1	178.13	.00187	.00036	85.90	.00140	-.00121	9.9398	-.00015	3.4430
#2	177.94	.00174	-.00105	85.23	.00115	-.00235	9.8883	-.00027	3.4402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	.00185	-.00306	.00111	.00226
Stddev	.00027	.00211	.00043	.00015
%RSD	14.575	68.783	39.156	6.7114
#1	.00204	-.00455	.00080	.00237
#2	.00166	-.00157	.00142	.00216
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3667.9	6647.4	61027.	10350.
Stddev	15.0	39.7	88.	29.
%RSD	.40942	.59783	.14443	.28409
#1	3657.3	6619.3	60965.	10330.
#2	3678.5	6675.5	61090.	10371.

Sample Name: 480-30368-A-3-A Acquired: 12/19/2012 16:28:42 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00141**	**.03800**	**.01018**	**.31893**	**.08278**	**-.00008**	**250.57**	**.00034**	**.00005**
Stddev	.00039	.02929	.00140	.00132	.00011	.00004	1.59	.00005	.00003
%RSD	27.765	77.086	13.714	.41289	.12929	49.949	.63393	15.649	60.939
#1	-.00114	.05872	.00919	.31986	.08286	-.00005	251.69	.00038	.00007
#2	-.00169	.01729	.01117	.31800	.08271	-.00011	249.44	.00030	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00482**	**.00162**	**.05589**	**20.344**	**33.039**	**.04409**	**44.701**	**.00728**	**.00583**
Stddev	.00076	.00061	.00075	.015	.150	.00048	.052	.00001	.00022
%RSD	15.686	37.328	1.3407	.07474	.45317	1.0830	.11567	.16082	3.7713
#1	.00428	.00205	.05536	20.333	33.145	.04443	44.738	.00727	.00599
#2	.00535	.00120	.05642	20.355	32.934	.04375	44.665	.00729	.00568
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**437.95**	**.01432**	**-.00023**	F **64.83**	**-.00058**	**.00105**	**10.059**	**.00011**	**3.4944**
Stddev	1.77	.00037	.00224	.32	.00012	.00362	.024	.00015	.0025
%RSD	.40483	2.6186	982.78	.4960	20.197	344.61	.24224	134.46	.07222
#1	439.20	.01458	-.00181	65.06	-.00066	-.00151	10.076	.00001	3.4962
#2	436.69	.01405	.00136	64.61	-.00050	.00361	10.041	.00022	3.4926
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00310**	**-.00012**	**.00102**	**.00220**
Stddev	.00028	.00116	.00022	.00014
%RSD	9.0203	935.80	21.469	6.2581
#1	.00329	.00070	.00086	.00230
#2	.00290	-.00094	.00117	.00210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3459.4**	**6492.1**	**59154.**	**10236.**
Stddev	12.9	9.2	248.	17.
%RSD	.37325	.14237	.41936	.16368
#1	3450.3	6485.6	58979.	10224.
#2	3468.5	6498.7	59329.	10248.

Sample Name: 480-30368-A-3-A SD@5 Acquired: 12/19/2012 16:31:11 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.02147**	**.00426**	**.06258**	**.01697**	**-.00002**	**51.212**	**-.00003**	**-.00012**
Stddev	.00041	.00198	.00084	.00001	.00018	.00004	.029	.00013	.00001
%RSD	172.35	9.2083	19.652	.01141	1.0824	264.74	.05658	379.75	5.8056
#1	-.00052	.02007	.00367	.06258	.01710	-.00004	51.192	-.00012	-.00011
#2	.00005	.02286	.00485	.06257	.01684	.00001	51.233	.00006	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00134**	**.00084**	**.00959**	**4.0436**	**5.0452**	**.00887**	**9.0884**	**.00130**	**.00117**
Stddev	.00005	.00016	.00107	.0365	.0104	.00038	.1083	.00001	.00026
%RSD	3.8801	19.402	11.112	.90144	.20642	4.2775	1.1916	.89855	21.900
#1	.00137	.00095	.00884	4.0178	5.0379	.00914	9.1650	.00131	.00099
#2	.00130	.00072	.01035	4.0694	5.0526	.00860	9.0118	.00129	.00135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**88.198**	**.00251**	**.00002**	F **12.29**	**.00036**	**.00004**	**1.9726**	**-.00021**	**.70013**
Stddev	.171	.00072	.00025	.03	.00160	.00126	.0007	.00005	.00258
%RSD	.19441	28.777	1438.8	.2286	446.95	3135.6	.03590	24.144	.36880
#1	88.077	.00302	-.00016	12.31	.00149	-.00085	1.9731	-.00017	.69831
#2	88.319	.00200	.00019	12.27	-.00077	.00093	1.9721	-.00024	.70196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00044**	**-.00202**	**.00026**	**.00061**
Stddev	.00016	.00041	.00063	.00013
%RSD	35.428	20.146	242.83	21.036
#1	.00033	-.00231	-.00019	.00052
#2	.00056	-.00173	.00070	.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3930.9**	**6954.4**	**63537.**	**10399.**
Stddev	5.6	14.8	224.	26.
%RSD	.14317	.21217	.35192	.25396
#1	3926.9	6944.0	63379.	10418.
#2	3934.9	6964.9	63695.	10380.

Sample Name: 480-30368-A-3-A PDS Acquired: 12/19/2012 16:33:25 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05088	10.032	.22811	.52041	.27957	.20752	252.64	.21470	.21747
Stddev	.00164	.037	.00130	.00011	.00208	.00018	.30	.00009	.00034
%RSD	3.2176	.36722	.56800	.02051	.74441	.08704	.11774	.04281	.15587
#1	.04972	10.006	.22903	.52033	.28104	.20740	252.85	.21477	.21771
#2	.05203	10.058	.22720	.52049	.27809	.20765	252.43	.21464	.21723
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20809	.21417	9.8256	29.830	45.765	.24270	52.943	.20520	.21761
Stddev	.00111	.00209	.0035	.092	.375	.00039	.461	.00215	.00100
%RSD	.53104	.97449	.03583	.30787	.81884	.16094	.87147	1.0461	.46183
#1	.20887	.21564	9.8231	29.765	45.500	.24298	53.270	.20671	.21832
#2	.20731	.21269	9.8281	29.895	46.030	.24243	52.617	.20368	.21690
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	434.83	.22525	.21095	F 63.09	.21768	.21497	20.157	.21346	3.5915
Stddev	2.37	.00063	.00211	.12	.00054	.00143	.082	.00062	.0127
%RSD	.54394	.28183	1.0007	.1919	.24872	.66309	.40867	.29154	.35389
#1	433.16	.22570	.21245	63.00	.21806	.21396	20.099	.21302	3.5825
#2	436.50	.22481	.20946	63.17	.21730	.21598	20.215	.21390	3.6005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	.20537	.20305	.21015	.20963
Stddev	.00173	.00130	.00110	.00022
%RSD	.84220	.64226	.52153	.10377
#1	.20659	.20213	.21093	.20978
#2	.20414	.20397	.20938	.20947
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3436.7	6508.8	59807.	10294.
Stddev	9.6	13.9	133.	60.
%RSD	.27866	.21300	.22309	.57957
#1	3443.5	6518.6	59712.	10336.
#2	3430.0	6499.0	59901.	10252.

Sample Name: 480-30368-A-3-B MS Acquired: 12/19/2012 16:35:48 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05554	10.316	.23699	.54482	.28980	.21520	262.25	.22326	.22564
Stddev	.00085	.006	.00054	.00105	.00006	.00114	1.28	.00000	.00004
%RSD	1.5309	.06251	.22660	.19358	.02199	.53027	.48623	.00163	.01808
#1	.05614	10.311	.23661	.54408	.28976	.21601	263.15	.22326	.22561
#2	.05494	10.320	.23737	.54557	.28985	.21440	261.35	.22326	.22567
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21663	.22167	10.163	31.096	47.602	.25197	55.150	.21214	.22558
Stddev	.00049	.00019	.007	.127	.248	.00088	.046	.00017	.00064
%RSD	.22512	.08460	.07136	.40883	.52020	.34853	.08262	.07926	.28186
#1	.21698	.22154	10.158	31.186	47.777	.25135	55.182	.21226	.22603
#2	.21629	.22180	10.168	31.006	47.427	.25259	55.118	.21202	.22513
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	448.50	.23475	.22157	F 68.57	.22647	.16621	20.554	.22114	3.7577
Stddev	.25	.00085	.00120	.02	.00145	.00142	.101	.00035	.0126
%RSD	.05531	.36220	.54161	.0346	.64035	.85565	.49099	.15912	.33386
#1	448.67	.23415	.22072	68.59	.22545	.16722	20.625	.22089	3.7666
#2	448.32	.23535	.22242	68.55	.22750	.16521	20.482	.22139	3.7488
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	.21331	.21001	.21745	.21711
Stddev	.00013	.00327	.00040	.00089
%RSD	.06227	1.5581	.18308	.41089
#1	.21321	.20769	.21717	.21774
#2	.21340	.21232	.21773	.21648
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3421.5	6499.3	59725.	10360.
Stddev	4.9	10.4	62.	59.
%RSD	.14427	.15944	.10325	.56749
#1	3425.0	6506.6	59682.	10319.
#2	3418.0	6492.0	59769.	10402.

Sample Name: 480-30368-A-3-C MSD Acquired: 12/19/2012 16:38:10 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05484	10.466	.24068	.54475	.29305	.21553	262.15	.22400	.22671
Stddev	.00024	.065	.00154	.00157	.00035	.00100	.66	.00119	.00075
%RSD	.42862	.61828	.63782	.28755	.11933	.46344	.25112	.53243	.32956
#1	.05501	10.512	.24177	.54364	.29330	.21624	261.69	.22315	.22618
#2	.05468	10.421	.23960	.54586	.29281	.21483	262.62	.22484	.22724
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21614	.22419	10.168	31.252	47.247	.25263	55.708	.21565	.22668
Stddev	.00062	.00024	.006	.045	.046	.00067	.121	.00061	.00044
%RSD	.28566	.10895	.05860	.14349	.09656	.26346	.21646	.28125	.19467
#1	.21570	.22401	10.164	31.283	47.279	.25216	55.793	.21608	.22699
#2	.21657	.22436	10.173	31.220	47.215	.25310	55.623	.21523	.22637
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	456.32	.23634	.22242	F 68.66	.22896	.16753	20.708	.22236	3.7614
Stddev	1.49	.00024	.00121	.28	.00043	.00099	.074	.00217	.0078
%RSD	.32549	.10264	.54426	.4005	.18991	.59230	.35604	.97382	.20657
#1	457.37	.23651	.22157	68.46	.22866	.16823	20.760	.22083	3.7669
#2	455.26	.23616	.22328	68.85	.22927	.16682	20.656	.22390	3.7559
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	.21350	.21162	.21829	.21824
Stddev	.00056	.00238	.00027	.00042
%RSD	.26335	1.1249	.12172	.19469
#1	.21310	.20994	.21848	.21794
#2	.21390	.21330	.21810	.21854
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3416.8	6488.9	59494.	10367.
Stddev	13.1	22.5	125.	2.
%RSD	.38196	.34639	.20945	.02141
#1	3426.0	6504.8	59405.	10369.
#2	3407.5	6473.0	59582.	10366.

Sample Name: 480-30368-A-4-A Acquired: 12/19/2012 16:40:33 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00121**	**.03234**	**.00043**	**.26246**	**.03615**	**.00002**	**275.10**	**.00009**	**-.00015**
Stddev	.00042	.00210	.00289	.00053	.00012	.00001	1.65	.00004	.00009
%RSD	34.395	6.4931	678.06	.20241	.33651	51.286	.59828	44.161	56.830
#1	-.00151	.03382	.00247	.26284	.03623	.00003	276.26	.00012	-.00009
#2	-.00092	.03085	-.00162	.26209	.03606	.00001	273.93	.00006	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00062**	**.00171**	**.05155**	**3.2030**	**4.3334**	**.02369**	**66.975**	**.02715**	**.00001**
Stddev	.00031	.00021	.00028	.0239	.0072	.00130	.238	.00015	.00007
%RSD	49.485	12.522	.53917	.74516	.16615	5.4718	.35541	.53841	546.21
#1	.00083	.00156	.05175	3.2199	4.3283	.02277	67.143	.02725	-.00004
#2	.00040	.00186	.05136	3.1861	4.3385	.02460	66.807	.02704	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**62.534**	**.00016**	**-.00018**	F **203.9**	**-.00002**	**.00063**	**13.722**	**-.00069**	**5.8263**
Stddev	.026	.00061	.00265	.4	.00091	.00156	.055	.00040	.0098
%RSD	.04181	394.79	1432.1	.2043	4315.0	248.42	.39986	57.585	.16778
#1	62.553	-.00028	-.00206	203.7	.00062	-.00048	13.761	-.00098	5.8193
#2	62.516	.00059	.00169	204.2	-.00066	.00174	13.683	-.00041	5.8332
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00308**	**-.00179**	**.00075**	**.00515**
Stddev	.00001	.00307	.00011	.00041
%RSD	.35392	171.58	15.094	7.9679
#1	.00309	-.00396	.00067	.00486
#2	.00308	.00038	.00083	.00544
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3672.4**	**6629.1**	**61232.**	**10315.**
Stddev	3.8	4.7	131.	23.
%RSD	.10443	.07138	.21351	.22024
#1	3675.2	6632.4	61140.	10299.
#2	3669.7	6625.7	61325.	10331.

Sample Name: 480-30368-A-5-A Acquired: 12/19/2012 16:42:56 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00185**	**.18223**	**-.00070**	**.38674**	**.03177**	**-.00002**	**293.26**	**.00026**	**-.00001**
Stddev	.00075	.02312	.00168	.00232	.00007	.00003	1.04	.00006	.00004
%RSD	40.540	12.686	239.64	.59909	.22304	120.00	.35617	22.935	614.58
#1	-.00239	.19858	.00049	.38838	.03172	-.00004	292.52	.00022	.00002
#2	-.00132	.16588	-.00189	.38510	.03182	.00000	294.00	.00030	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00157**	**.00152**	**.36277**	**2.6477**	**3.7314**	**.01922**	**82.872**	**.02177**	**.00035**
Stddev	.00017	.00014	.00626	.0232	.0187	.00020	.183	.00012	.00019
%RSD	10.671	8.9507	1.7249	.87624	.50005	1.0648	.22135	.53769	53.404
#1	.00169	.00143	.35834	2.6641	3.7182	.01937	82.743	.02168	.00049
#2	.00145	.00162	.36719	2.6313	3.7445	.01908	83.002	.02185	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**57.169**	**-.00011**	**.00157**	F **247.8**	**.00079**	**.00161**	**15.929**	**-.00029**	**7.3189**
Stddev	.525	.00002	.00076	1.3	.00110	.00404	.172	.00060	.0512
%RSD	.91863	17.524	48.009	.5075	139.62	251.30	1.0775	205.78	.69930
#1	56.797	-.00012	.00104	248.7	.00001	.00446	15.808	-.00071	7.2827
#2	57.540	-.00010	.00211	246.9	.00157	-.00125	16.051	.00013	7.3550
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00656**	**-.00282**	**.00200**	**.00950**
Stddev	.00027	.00042	.00025	.00007
%RSD	4.0695	14.935	12.338	.74548
#1	.00675	-.00252	.00183	.00945
#2	.00637	-.00311	.00218	.00955
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3637.8**	**6584.1**	**60965.**	**10274.**
Stddev	18.7	23.4	130.	82.
%RSD	.51309	.35520	.21372	.79612
#1	3624.6	6567.6	61057.	10332.
#2	3651.0	6600.6	60873.	10216.

Sample Name: 480-30368-A-6-A Acquired: 12/19/2012 16:45:30 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00100**	**.05262**	**.00019**	**.28915**	**.02370**	**-.00001**	**273.50**	**.00018**	**.00000**
Stddev	.00045	.00840	.00012	.00101	.00009	.00006	5.17	.00002	.0000
%RSD	45.135	15.974	63.430	.35093	.38928	546.76	1.8910	11.872	1989.1
#1	-.00068	.04667	.00010	.28843	.02363	-.00005	277.15	.00020	.00002
#2	-.00132	.05856	.00027	.28987	.02376	.00003	269.84	.00017	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00103**	**.00226**	**.04901**	**5.4579**	**8.4282**	**.02918**	**73.972**	**.00629**	**.00032**
Stddev	.00001	.00012	.00513	.0316	.0316	.00072	.595	.00014	.00026
%RSD	1.2269	5.2898	10.457	.57960	.37470	2.4574	.80411	2.2780	81.108
#1	.00103	.00218	.05264	5.4803	8.4505	.02969	73.552	.00619	.00014
#2	.00102	.00235	.04539	5.4355	8.4058	.02867	74.393	.00639	.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**183.16**	**.00103**	**-.00072**	F **228.5**	**.00115**	**.00117**	**12.119**	**-.00031**	**5.5952**
Stddev	1.15	.00033	.00013	.7	.00058	.00085	.005	.00056	.0642
%RSD	.62525	32.519	18.389	.3260	50.739	72.398	.04097	183.08	1.1473
#1	182.35	.00079	-.00081	228.0	.00156	.00057	12.115	.00009	5.6406
#2	183.97	.00127	-.00062	229.0	.00074	.00177	12.122	-.00071	5.5499
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00302**	**-.00011**	**.00058**	**.19004**
Stddev	.00016	.00260	.00031	.00034
%RSD	5.2089	2427.5	53.573	.17811
#1	.00291	-.00195	.00080	.18980
#2	.00313	.00173	.00036	.19028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3555.9**	**6495.5**	**60103.**	**10275.**
Stddev	14.9	26.5	510.	27.
%RSD	.41868	.40867	.84827	.26292
#1	3566.4	6514.3	60464.	10256.
#2	3545.3	6476.7	59743.	10294.

Sample Name: 480-30370-E-1-A Acquired: 12/19/2012 16:48:17 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.21989**	**.00109**	**.03513**	**.03586**	**-.00010**	**132.17**	**.00008**	**.00191**
Stddev	.00077	.00752	.00163	.00025	.00012	.00002	1.87	.00005	.00006
%RSD	1418.8	3.4184	149.93	.71297	.34049	18.442	1.4168	55.812	3.2912
#1	.00049	.21457	-.00007	.03495	.03577	-.00009	130.85	.00012	.00196
#2	-.00060	.22520	.00224	.03530	.03594	-.00011	133.49	.00005	.00187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00208**	**.00382**	**.23236**	**1.5126**	**1.7215**	**.00342**	**22.901**	**5.2565**	**-.00020**
Stddev	.00024	.00033	.00186	.0130	.0237	.00066	.024	.0273	.00001
%RSD	11.619	8.6420	.80191	.86015	1.3747	19.390	.10454	.51870	4.6305
#1	.00226	.00359	.23104	1.5034	1.7047	.00389	22.884	5.2372	-.00020
#2	.00191	.00406	.23368	1.5218	1.7382	.00295	22.918	5.2758	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.647**	**.00239**	**.00129**	F **13.26**	**-.00164**	**-.00049**	**9.7841**	**-.00038**	**1.0211**
Stddev	.127	.00060	.00015	.02	.00121	.00100	.1481	.00025	.0161
%RSD	1.1971	25.173	11.304	.1230	73.449	203.08	1.5136	66.062	1.5779
#1	10.557	.00282	.00119	13.25	-.00249	-.00120	9.6794	-.00020	1.0097
#2	10.737	.00196	.00140	13.28	-.00079	.00021	9.8888	-.00056	1.0324
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.01006**	**.00197**	**.00316**	**.00505**
Stddev	.00057	.00029	.00053	.00003
%RSD	5.6761	14.541	16.867	.68329
#1	.00966	.00217	.00354	.00507
#2	.01046	.00177	.00279	.00502
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3932.1**	**6927.1**	**63959.**	**10587.**
Stddev	5.0	7.7	47.	93.
%RSD	.12748	.11114	.07302	.87659
#1	3935.6	6932.5	63992.	10653.
#2	3928.5	6921.6	63926.	10522.

Sample Name: CCV Acquired: 12/19/2012 16:50:43 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49982	23.966	.50337	.50345	.48343	.49060	24.376	.50642	.49996	.50780	.50341	23.833	24.555
Stddev	.00054	.042	.00937	.00843	.00024	.00105	.016	.00714	.00621	.00201	.00105	.093	.007
%RSD	.10811	.17477	1.8613	1.6739	.04933	.21359	.06377	1.4092	1.2430	.39498	.20895	.39031	.02813
#1	.49944	23.996	.49674	.49749	.48360	.49134	24.387	.50138	.49557	.50638	.50267	23.899	24.550
#2	.50020	23.936	.50999	.50941	.48326	.48986	24.365	.51147	.50436	.50922	.50416	23.768	24.560
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.319	.48548	24.035	.49914	.51038	24.499	.50331	.50865	25.03	.51409	.50099	24.070	.52292
Stddev	.036	.00027	.060	.00280	.00609	.019	.00741	.00745	.37	.00810	.00943	.030	.00894
%RSD	.14092	.05491	.25129	.56023	1.1942	.07633	1.4716	1.4646	1.475	1.5761	1.8823	.12519	1.7106
#1	25.294	.48529	23.992	.49717	.50607	24.486	.49807	.50338	24.77	.50836	.49432	24.048	.51660
#2	25.344	.48567	24.077	.50112	.51469	24.512	.50855	.51391	25.29	.51982	.50765	24.091	.52925
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	.49019	.50839	.50814	.50258	.51137
Stddev	.00010	.00487	.01111	.00191	.00457
%RSD	.02097	.95712	2.1859	.37951	.89310
#1	.49026	.50495	.50029	.50123	.50814
#2	.49011	.51183	.51600	.50393	.51460
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3925.9	6968.9	63689.	10380.
Stddev	37.6	66.3	402.	8.
%RSD	.95764	.95189	.63069	.07668
#1	3952.5	7015.8	63973.	10374.
#2	3899.3	6922.0	63405.	10385.

Sample Name: CCB Acquired: 12/19/2012 16:53:00 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00124**	**-.00028**	**-.00042**	**.00046**	**.00003**	**.00004**	**.00363**	**.00009**	**-.00003**	**-.00061**	**.00029**	**.00030**	**-.00545**
Stddev	.00114	.00568	.00083	.00020	.00000	.00004	.00223	.00001	.00001	.00005	.00032	.00124	.05563
%RSD	91.995	2008.4	197.97	43.079	6.8127	98.344	61.424	12.395	46.711	7.8509	108.84	410.02	1020.5
#1	-.00204	.00373	-.00101	.00032	.00003	.00008	.00206	.00010	-.00004	-.00065	.00052	-.00057	.03389
#2	-.00043	-.00430	.00017	.00061	.00003	.00001	.00521	.00008	-.00002	-.00058	.00007	.00118	-.04479
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00340**	**.00061**	**.00271**	**.00007**	**.00006**	**.03915**	**-.00008**	**-.00015**	F **.0327**	**.00084**	**-.00045**	**-.01168**	**-.00015**
Stddev	.00043	.00080	.00562	.00001	.00005	.00041	.00041	.00113	.0036	.00015	.00094	.01293	.00003
%RSD	12.783	129.75	207.21	21.622	77.807	1.0384	500.96	773.59	10.93	18.085	207.17	110.71	18.637
#1	.00371	.00118	-.00126	.00008	.00003	.03887	.00021	-.00095	.0352	.00073	-.00112	-.00254	-.00013
#2	.00309	.00005	.00668	.00006	.00009	.03944	-.00037	.00066	.0302	.00095	.00021	-.02083	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									.0030				
Low Limit									-.0040				

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**-.00022**	**-.00179**	**-.00019**	**.00000**
Stddev	.00009	.00032	.00207	.00017	.0006
%RSD	198.07	143.10	115.70	89.525	16236.
#1	.00002	-.00045	-.00033	-.00007	.00039
#2	-.00011	.00000	-.00326	-.00032	-.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4323.4**	**7225.4**	**65648.**	**10439.**
Stddev	8.5	10.4	80.	62.
%RSD	.19666	.14394	.12122	.59254
#1	4329.4	7232.7	65705.	10483.
#2	4317.4	7218.0	65592.	10395.

Sample Name: 480-30370-E-2-A Acquired: 12/19/2012 16:55:21 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00294**	**1.2930**	**.00099**	**.04791**	**.01290**	**.00002**	**177.30**	**.00012**	**.00095**
Stddev	.00083	.0122	.00175	.00035	.00006	.00006	2.06	.00000	.00003
%RSD	28.162	.94160	177.62	.73890	.45759	288.02	1.1616	.90305	3.6944
#1	.00235	1.2843	-.00025	.04766	.01294	-.00002	178.76	.00012	.00097
#2	.00352	1.3016	.00223	.04816	.01286	.00006	175.84	.00012	.00092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00716**	**.00854**	**.90800**	**1.6531**	**2.0150**	**.00310**	**35.347**	F **18.418**	**-.00076**
Stddev	.00047	.00008	.00235	.0362	.0216	.00064	.143	.061	.00004
%RSD	6.5694	.96650	.25843	2.1915	1.0713	20.552	.40553	.33201	4.7066
#1	.00749	.00848	.90966	1.6787	2.0302	.00355	35.448	18.461	-.00079
#2	.00683	.00860	.90634	1.6274	1.9997	.00265	35.245	18.374	-.00074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit								15.000	
Low Limit								-.00300	

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.157**	**.00201**	**.00453**	F **37.11**	**-.00173**	**.01081**	**13.576**	**-.00017**	**.74394**
Stddev	.053	.00026	.00168	.09	.00170	.00104	.086	.00025	.00214
%RSD	.32779	12.755	37.126	.2502	98.232	9.6076	.63214	151.77	.28807
#1	16.194	.00183	.00572	37.17	-.00053	.01008	13.637	-.00035	.74546
#2	16.119	.00219	.00334	37.04	-.00293	.01154	13.515	.00001	.74243
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.04909**	**.01232**	**.00936**	**.01141**
Stddev	.00333	.00184	.00056	.00027
%RSD	6.7800	14.920	5.9336	2.3834
#1	.05144	.01102	.00975	.01121
#2	.04674	.01362	.00897	.01160
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3828.2**	**6857.6**	**62831.**	**10599.**
Stddev	6.4	12.0	27.	98.
%RSD	.16599	.17507	.04219	.92693
#1	3832.7	6866.1	62850.	10530.
#2	3823.7	6849.1	62812.	10668.

Sample Name: 480-30370-E-3-A Acquired: 12/19/2012 16:57:47 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00015	2.4202	.00135	.01091	.01795	-.00001	84.698	.00009	.00819
Stddev	.00029	.0237	.00158	.00005	.00003	.00011	.346	.00002	.00020
%RSD	192.44	.97864	117.10	.46163	.14471	753.59	.40904	21.567	2.4750
#1	.00036	2.4369	.00023	.01088	.01797	.00006	84.943	.00011	.00833
#2	-.00006	2.4034	.00246	.01095	.01793	-.00009	84.453	.00008	.00805
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00322	.00374	2.5927	1.4940	1.5239	.00185	12.073	4.6675	-.00009
Stddev	.00013	.00013	.0203	.0180	.0016	.00108	.061	.0237	.00002
%RSD	4.1000	3.4629	.78143	1.2069	.10477	58.335	.50735	.50687	23.553
#1	.00331	.00365	2.6071	1.5068	1.5250	.00261	12.116	4.6842	-.00008
#2	.00312	.00383	2.5784	1.4813	1.5228	.00108	12.029	4.6507	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.6666	.00433	.00137	4.812	.00003	.00171	14.241	.00018	.34287
Stddev	.0077	.00033	.00085	.004	.00142	.00322	.097	.00004	.00144
%RSD	.16480	7.7276	61.808	.0856	4581.6	187.98	.68394	20.934	.42094
#1	4.6721	.00457	.00077	4.809	-.00097	-.00056	14.310	.00016	.34389
#2	4.6612	.00409	.00197	4.815	.00103	.00399	14.172	.00021	.34185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	.11089	.00228	.00508	.00968
Stddev	.00271	.00133	.00080	.00022
%RSD	2.4415	58.213	15.652	2.2548
#1	.10898	.00322	.00452	.00953
#2	.11280	.00134	.00565	.00983
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4067.5	7105.3	65363.	10572.
Stddev	12.5	17.7	94.	5.
%RSD	.30728	.24932	.14334	.04638
#1	4076.3	7117.8	65430.	10568.
#2	4058.6	7092.8	65297.	10575.

Sample Name: 480-30372-E-1-A Acquired: 12/19/2012 16:59:59 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00014	.03520	-.00027	.00240	.00236	-.00001	10.414	-.00015	.00008
Stddev	.00035	.01321	.00051	.00070	.00065	.00008	.105	.00001	.00007
%RSD	250.11	37.527	186.65	29.230	27.667	1162.4	1.0041	8.3723	92.325
#1	-.00011	.04455	.00009	.00290	.00190	-.00006	10.488	-.00016	.00013
#2	.00039	.02586	-.00063	.00191	.00283	.00005	10.340	-.00014	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00011	.00148	.13533	.24661	.26404	.00032	3.3081	.02173	.00003
Stddev	.00035	.00046	.00511	.04039	.03410	.00104	.1032	.01726	.00027
%RSD	334.87	31.264	3.7752	16.379	12.914	323.70	3.1211	79.443	1020.8
#1	-.00014	.00115	.13894	.27517	.23993	.00106	3.2351	.00952	.00022
#2	.00035	.00181	.13171	.21804	.28816	-.00042	3.3812	.03394	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.2068	-.00015	-.00122	2.112	.00102	.00242	6.7243	-.00032	.03096
Stddev	.0322	.00023	.00081	.012	.00102	.00051	.0452	.00032	.00038
%RSD	1.0054	157.14	66.427	.5467	100.83	21.105	.67169	97.205	1.2186
#1	3.2296	.00002	-.00179	2.120	.00174	.00206	6.7562	-.00010	.03122
#2	3.1840	-.00031	-.00065	2.104	.00029	.00278	6.6923	-.00055	.03069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	.00114	-.00229	.00109	.00062
Stddev	.00094	.00061	.00071	.00072
%RSD	82.238	26.547	65.030	115.71
#1	.00048	-.00272	.00059	.00011
#2	.00181	-.00186	.00159	.00113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4351.2	7300.0	67243.	10758.
Stddev	27.0	37.3	67.	95.
%RSD	.62057	.51058	.10023	.87974
#1	4332.1	7273.6	67195.	10691.
#2	4370.3	7326.3	67291.	10824.

Sample Name: 480-30372-E-2-A Acquired: 12/19/2012 17:02:13 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**.02973**	**.00125**	**.00283**	**.00205**	**.00005**	**12.609**	**-.00001**	**-.00005**
Stddev	.00028	.00695	.00155	.00036	.00002	.00009	.029	.00007	.00035
%RSD	65.581	23.383	123.61	12.618	.80894	191.44	.23154	486.47	749.98
#1	-.00023	.02482	.00235	.00258	.00206	.00011	12.588	.00003	-.00030
#2	-.00063	.03465	.00016	.00308	.00204	-.00002	12.630	-.00006	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00045**	**.00073**	**.09935**	**.31447**	**.30669**	**-.00014**	**3.7121**	**.00544**	**-.00002**
Stddev	.00030	.00007	.00261	.00154	.00079	.00049	.0080	.00001	.00006
%RSD	66.339	9.2172	2.6284	.48931	.25901	335.61	.21637	.16364	312.20
#1	.00066	.00078	.09751	.31555	.30725	.00020	3.7178	.00544	-.00006
#2	.00024	.00068	.10120	.31338	.30613	-.00049	3.7064	.00545	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.4776**	**-.00012**	**-.00076**	**2.342**	**.00040**	**-.00178**	**6.9536**	**-.00011**	**.03789**
Stddev	.0083	.00045	.00076	.008	.00053	.00089	.0113	.00011	.00002
%RSD	.18556	383.47	99.202	.3472	131.83	49.963	.16241	99.715	.06279
#1	4.4835	.00020	-.00023	2.348	.00003	-.00115	6.9456	-.00019	.03787
#2	4.4717	-.00043	-.00130	2.337	.00077	-.00241	6.9616	-.00003	.03791
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00050**	**-.00038**	**.00063**	**.00041**
Stddev	.00017	.00093	.00010	.00014
%RSD	34.649	245.55	15.625	34.371
#1	.00038	-.00103	.00056	.00031
#2	.00062	.00028	.00070	.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4297.0**	**7247.8**	**66517.**	**10614.**
Stddev	8.3	6.4	105.	49.
%RSD	.19209	.08808	.15743	.46619
#1	4302.9	7243.3	66443.	10649.
#2	4291.2	7252.3	66591.	10579.

Sample Name: 480-30372-E-3-A Acquired: 12/19/2012 17:04:26 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00073**	**.31214**	**-.00077**	**.00734**	**.00822**	**.00003**	**58.278**	**-.00004**	**-.00007**
Stddev	.00029	.00000	.00222	.00014	.00005	.00006	.078	.00004	.00008
%RSD	39.286	.00049	286.15	1.9639	.59568	179.98	.13442	98.859	121.66
#1	-.00094	.31214	-.00234	.00724	.00825	-.00001	58.223	-.00007	-.00012
#2	-.00053	.31214	.00079	.00744	.00818	.00008	58.333	-.00001	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.00128**	**.22527**	**1.2925**	**1.3705**	**.00020**	**13.123**	**.04778**	**-.00007**
Stddev	.00046	.00057	.00011	.0068	.0049	.00005	.054	.00025	.00004
%RSD	244.52	44.651	.05070	.52609	.35954	24.326	.41304	.51568	57.333
#1	.00052	.00168	.22535	1.2877	1.3670	.00024	13.161	.04795	-.00010
#2	-.00014	.00087	.22519	1.2973	1.3739	.00017	13.084	.04760	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.866**	**-.00018**	**.00058**	**5.915**	**.00029**	**-.00091**	**7.1881**	**-.00030**	**.25517**
Stddev	.045	.00034	.00042	.031	.00074	.00057	.0264	.00041	.00029
%RSD	.23601	193.42	72.497	.5218	260.15	63.299	.36671	135.08	.11271
#1	18.834	-.00041	.00029	5.894	.00081	-.00050	7.2068	-.00001	.25537
#2	18.897	.00006	.00088	5.937	-.00024	-.00131	7.1695	-.00059	.25497
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.01106**	**-.00108**	**.00120**	**.00118**
Stddev	.00043	.00025	.00036	.00043
%RSD	3.8812	23.455	29.820	36.554
#1	.01075	-.00126	.00145	.00088
#2	.01136	-.00090	.00095	.00149
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4072.0**	**7066.2**	**65059.**	**10493.**
Stddev	17.6	32.8	60.	32.
%RSD	.43176	.46407	.09265	.30872
#1	4084.4	7089.4	65016.	10516.
#2	4059.5	7043.1	65101.	10470.

Sample Name: MB 480-96048/1-A Acquired: 12/19/2012 17:06:38 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**.01524**	**.00012**	**.00137**	**.00004**	**-.00003**	**.03124**	**-.00013**	**-.00003**
Stddev	.00035	.01121	.00016	.00009	.00001	.00005	.00066	.00011	.00001
%RSD	151.42	73.596	135.52	6.5089	23.225	139.03	2.1257	90.474	38.843
#1	-.00047	.02317	.00023	.00130	.00005	.00000	.03077	-.00021	-.00002
#2	.00002	.00731	.00000	.00143	.00004	-.00007	.03171	-.00005	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.00082**	**-.00132**	**-.02678**	**.00303**	**-.00203**	**-.00415**	**-.00034**	**-.00013**
Stddev	.00023	.00009	.00200	.01505	.00058	.00122	.00258	.00005	.00011
%RSD	73.393	11.191	152.00	56.196	19.289	60.336	62.298	15.768	83.613
#1	-.00047	.00089	.00010	-.01614	.00262	-.00289	-.00232	-.00037	-.00005
#2	-.00015	.00076	-.00273	-.03742	.00344	-.00116	-.00598	-.00030	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01427**	**-.00054**	**-.00126**	F **.0082**	**.00018**	**.00007**	**-.01288**	**-.00034**	**-.00001**
Stddev	.00367	.00002	.00129	.0005	.00004	.00094	.00009	.00039	.00014
%RSD	25.746	3.6333	102.22	5.551	25.335	1416.3	.67685	115.12	2351.1
#1	-.01687	-.00052	-.00035	.0085	.00014	.00073	-.01294	-.00062	-.00011
#2	-.01167	-.00055	-.00218	.0079	.00021	-.00060	-.01281	-.00006	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.0030					
Low Limit				-.0040					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**-.00051**	**-.00220**	**.00009**	**.00100**
Stddev	.00025	.00063	.00046	.00010
%RSD	47.877	28.553	506.54	9.9710
#1	-.00069	-.00264	-.00023	.00107
#2	-.00034	-.00175	.00042	.00093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4383.3**	**7340.9**	**67398.**	**10640.**
Stddev	7.4	9.5	191.	16.
%RSD	.16977	.13002	.28311	.14975
#1	4388.6	7347.6	67263.	10651.
#2	4378.1	7334.1	67532.	10628.

Sample Name: LCS 480-96048/2-A Acquired: 12/19/2012 17:08:56 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05164**	**10.257**	**.20812**	**.21173**	**.21439**	**.21315**	**10.399**	**.20966**	**.21269**
Stddev	.00070	.003	.00049	.00057	.00043	.00121	.003	.00047	.00015
%RSD	1.3633	.03094	.23634	.26735	.20179	.56952	.02428	.22366	.06844
#1	.05114	10.260	.20777	.21133	.21470	.21401	10.401	.20933	.21280
#2	.05213	10.255	.20847	.21213	.21409	.21229	10.397	.20999	.21259
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21329**	**.21314**	**10.222**	**10.272**	**10.054**	**.20770**	**10.452**	**.21310**	**.21579**
Stddev	.00071	.00060	.033	.052	.124	.00033	.042	.00045	.00107
%RSD	.33068	.27985	.31875	.50875	1.2313	.15914	.39959	.21226	.49697
#1	.21378	.21357	10.245	10.309	9.9664	.20747	10.482	.21342	.21504
#2	.21279	.21272	10.199	10.235	10.142	.20794	10.423	.21278	.21655
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.306**	**.20786**	**.21039**	F **.0026**	**.21158**	**.20277**	**10.332**	**.20525**	**.20687**
Stddev	.044	.00140	.00149	.0022	.00365	.00201	.028	.00025	.00037
%RSD	.42501	.67185	.71030	82.61	1.7252	.99178	.27018	.12109	.17909
#1	10.337	.20687	.20933	.0011	.21416	.20134	10.313	.20507	.20713
#2	10.275	.20885	.21144	.0041	.20900	.20419	10.352	.20542	.20660
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				11.50					
Low Limit				8.500					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.20611**	**.21320**	**.21353**	**.21941**
Stddev	.00053	.00122	.00093	.00236
%RSD	.25592	.57241	.43471	1.0763
#1	.20648	.21233	.21419	.22108
#2	.20573	.21406	.21288	.21774
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4176.6**	**7241.7**	**65574.**	**10500.**
Stddev	11.5	32.3	147.	23.
%RSD	.27474	.44613	.22348	.21645
#1	4184.7	7264.5	65470.	10516.
#2	4168.5	7218.8	65677.	10484.

Sample Name: LCSD 480-96048/3-A Acquired: 12/19/2012 17:11:08 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05278**	**10.266**	**.20976**	**.21452**	**.21310**	**.21380**	**10.347**	**.21202**	**.21414**
Stddev	.00125	.130	.00051	.00129	.00107	.00072	.078	.00161	.00200
%RSD	2.3749	1.2708	.24420	.60099	.50206	.33855	.75383	.76084	.93287
#1	.05366	10.359	.21012	.21544	.21385	.21431	10.402	.21316	.21555
#2	.05189	10.174	.20939	.21361	.21234	.21329	10.292	.21088	.21273
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21345**	**.21282**	**10.239**	**10.307**	**10.016**	**.20763**	**10.335**	**.21002**	**.21826**
Stddev	.00096	.00001	.042	.053	.083	.00155	.056	.00149	.00148
%RSD	.44890	.00502	.41217	.51512	.82701	.74416	.53947	.71109	.67875
#1	.21413	.21283	10.268	10.344	10.075	.20872	10.374	.21108	.21931
#2	.21277	.21281	10.209	10.269	9.9579	.20654	10.296	.20897	.21721
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.305**	**.21011**	**.21207**	F **.0013**	**.21299**	**.20890**	**10.280**	**.20796**	**.20703**
Stddev	.043	.00166	.00220	.0007	.00095	.00053	.040	.00201	.00053
%RSD	.41247	.79189	1.0371	50.78	.44659	.25587	.39352	.96535	.25696
#1	10.335	.21128	.21363	.0018	.21366	.20852	10.308	.20938	.20741
#2	10.275	.20893	.21052	.0009	.21232	.20927	10.251	.20654	.20665
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				11.50					
Low Limit				8.500					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.20766**	**.21402**	**.21409**	**.22005**
Stddev	.00176	.00208	.00150	.00188
%RSD	.84843	.96972	.70056	.85398
#1	.20891	.21255	.21515	.22138
#2	.20641	.21549	.21303	.21872
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4137.5**	**7173.6**	**65731.**	**10546.**
Stddev	25.6	35.8	201.	57.
%RSD	.61950	.49895	.30578	.54313
#1	4119.4	7148.3	65589.	10506.
#2	4155.6	7198.9	65873.	10587.

Sample Name: 480-30152-C-3-D Acquired: 12/19/2012 17:13:19 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00116**	**26.922**	**.00788**	**.21444**	**.48370**	**.00137**	**74.704**	**-.00079**	**.00821**
Stddev	.00051	.222	.00176	.00002	.00710	.00002	.951	.00002	.00006
%RSD	43.943	.82625	22.369	.00759	1.4678	1.3191	1.2726	2.9987	.76832
#1	-.00080	26.764	.00913	.21443	.47868	.00136	74.031	-.00077	.00817
#2	-.00152	27.079	.00664	.21445	.48872	.00138	75.376	-.00080	.00826
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05840**	**.01627**	**27.645**	**9.3115**	**10.979**	**.02406**	**14.369**	**.47097**	**.00746**
Stddev	.00066	.00076	.196	.1012	.049	.00153	.074	.00074	.00003
%RSD	1.1238	4.6634	.70954	1.0867	.44333	6.3468	.51537	.15734	.37147
#1	.05887	.01574	27.506	9.2399	10.945	.02298	14.316	.47045	.00744
#2	.05794	.01681	27.783	9.3831	11.013	.02514	14.421	.47149	.00748
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**46.410**	**.02160**	**.02776**	F **10.90**	**.00273**	**.00007**	**44.661**	**.00825**	**.17452**
Stddev	.345	.00045	.00023	.02	.00020	.00444	.563	.00003	.00168
%RSD	.74250	2.0750	.82817	.1761	7.4636	6730.0	1.2616	.40607	.96158
#1	46.167	.02128	.02792	10.89	.00259	-.00307	44.263	.00822	.17333
#2	46.654	.02192	.02760	10.91	.00287	.00320	45.060	.00827	.17570
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.92429**	**-.00197**	**.05566**	**.07499**
Stddev	.00025	.00249	.00006	.00091
%RSD	.02718	126.76	.10669	1.2156
#1	.92411	-.00373	.05570	.07435
#2	.92447	-.00020	.05562	.07564
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3919.8**	**7066.6**	**64478.**	**10610.**
Stddev	10.6	2.5	226.	91.
%RSD	.27135	.03477	.35097	.85588
#1	3927.3	7068.3	64638.	10674.
#2	3912.2	7064.8	64318.	10546.

Sample Name: 480-30152-C-3-D SD@5 Acquired: 12/19/2012 17:15:39 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00123**	**6.0390**	**.00121**	**.04472**	**.10420**	**.00032**	**15.541**	**-.00024**	**.00157**
Stddev	.00043	.0639	.00054	.00081	.00005	.00008	.131	.00001	.00000
%RSD	34.757	1.0585	44.758	1.8077	.04416	24.351	.84469	3.8186	.03621
#1	-.00153	5.9938	.00159	.04529	.10417	.00037	15.448	-.00024	.00157
#2	-.00093	6.0842	.00083	.04415	.10424	.00026	15.634	-.00023	.00157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01196**	**.00368**	**5.8612**	**2.1646**	**2.0309**	**.00535**	**3.2156**	**.10490**	**.00149**
Stddev	.00090	.00029	.0563	.0237	.0261	.00096	.0036	.00024	.00003
%RSD	7.5124	7.9579	.96040	1.0968	1.2857	17.970	.11061	.23349	1.9389
#1	.01260	.00347	5.8214	2.1478	2.0124	.00467	3.2131	.10507	.00152
#2	.01133	.00389	5.9010	2.1814	2.0494	.00603	3.2181	.10472	.00147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.227**	**.00411**	**.00555**	**2.114**	**.00032**	**.00141**	**10.631**	**.00133**	**.03903**
Stddev	.090	.00076	.00144	.019	.00154	.00310	.090	.00010	.00054
%RSD	.80364	18.605	25.911	.8817	488.92	220.02	.85071	7.6206	1.3748
#1	11.163	.00357	.00657	2.127	-.00078	-.00078	10.567	.00126	.03866
#2	11.291	.00465	.00453	2.101	.00141	.00360	10.695	.00140	.03941
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.21409**	**-.00287**	**.01128**	**.01587**
Stddev	.00139	.00175	.00038	.00031
%RSD	.64705	60.984	3.3914	1.9683
#1	.21507	-.00411	.01155	.01609
#2	.21311	-.00163	.01100	.01565
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4208.2**	**7227.8**	**65912.**	**10455.**
Stddev	25.5	42.5	334.	111.
%RSD	.60519	.58787	.50683	1.0604
#1	4190.2	7197.7	65676.	10534.
#2	4226.2	7257.8	66148.	10377.

Sample Name: CCV Acquired: 12/19/2012 17:17:54 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49978	23.863	.49828	.49666	.48203	.48704	24.220	.50030	.49573	.50160	.49812	23.645	24.400
Stddev	.00203	.078	.00121	.00086	.00129	.00053	.042	.00073	.00038	.00164	.00130	.037	.039
%RSD	.40609	.32570	.24332	.17262	.26856	.10908	.17338	.14579	.07694	.32707	.26143	.15860	.15981
#1	.49834	23.918	.49743	.49605	.48294	.48741	24.249	.50081	.49546	.50276	.49904	23.672	24.427
#2	.50121	23.808	.49914	.49727	.48111	.48666	24.190	.49978	.49600	.50044	.49720	23.619	24.372
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.972	.48408	23.982	.49762	.50347	24.308	.49527	.50249	24.55	.50463	.49455	23.927	.51891
Stddev	.205	.00165	.010	.00005	.00085	.053	.00097	.00147	.01	.00288	.00212	.041	.00054
%RSD	.82055	.34125	.04053	.01016	.16942	.21748	.19577	.29157	.0218	.57163	.42828	.16973	.10348
#1	25.117	.48524	23.975	.49758	.50407	24.345	.49458	.50146	24.56	.50667	.49305	23.956	.51853
#2	24.827	.48291	23.989	.49765	.50287	24.270	.49595	.50353	24.55	.50259	.49604	23.898	.51929
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	.48791	.50178	.50491	.49900	.51012
Stddev	.00072	.00091	.00257	.00053	.00096
%RSD	.14748	.18077	.50982	.10669	.18791
#1	.48842	.50242	.50673	.49938	.50944
#2	.48741	.50114	.50309	.49863	.51080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3969.6	7062.9	64232.	10438.
Stddev	6.1	6.9	116.	17.
%RSD	.15307	.09837	.17985	.16177
#1	3973.9	7067.8	64150.	10426.
#2	3965.3	7058.0	64314.	10450.

Sample Name: CCB Acquired: 12/19/2012 17:20:10 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00095**	**.00345**	**-.00178**	**-.00002**	**.00003**	**.00008**	**.00492**	**-.00009**	**.00009**	**-.00052**	**.00063**	**.00313**	**-.02130**
Stddev	.00018	.00680	.00028	.00018	.00004	.00002	.00119	.00015	.00016	.00041	.00034	.00050	.00699
%RSD	18.615	197.17	15.929	962.52	162.78	28.117	24.231	158.64	174.95	79.913	54.165	15.990	32.817
#1	-.00083	.00826	-.00198	.00011	.00006	.00010	.00577	.00001	.00021	-.00022	.00039	.00277	-.01636
#2	-.00108	-.00136	-.00158	-.00015	.00000	.00007	.00408	-.00020	-.00002	-.00081	.00087	.00348	-.02624
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00346**	**.00020**	**-.00422**	**.00005**	**-.00002**	**.01664**	**-.00027**	**.00045**	**.0026**	**.00095**	**-.00076**	**.00403**	**-.00032**
Stddev	.00007	.00070	.00542	.00007	.00005	.00905	.00033	.00120	.0022	.00029	.00292	.02173	.00007
%RSD	2.0932	348.93	128.44	131.48	278.07	54.393	121.78	264.14	82.71	30.814	383.42	539.85	22.018
#1	.00352	-.00029	-.00039	.00010	.00002	.02304	-.00004	-.00039	.0011	.00116	.00130	.01939	-.00037
#2	.00341	.00070	-.00805	.00000	-.00005	.01024	-.00050	.00130	.0041	.00074	-.00283	-.01134	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**-.00007**	**-.00096**	**.00015**	**.00003**
Stddev	.00012	.00010	.00090	.00011	.00027
%RSD	89.216	136.50	93.841	73.824	1021.5
#1	-.00022	.00000	-.00159	.00007	-.00016
#2	-.00005	-.00014	-.00032	.00023	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4317.3**	**7219.1**	**66180.**	**10331.**
Stddev	3.8	.9	169.	34.
%RSD	.08815	.01196	.25511	.33351
#1	4314.6	7218.5	66061.	10306.
#2	4320.0	7219.7	66299.	10355.

Sample Name: 480-30152-C-3-D PDS Acquired: 12/19/2012 17:22:31 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04753**	**39.928**	**.21249**	**.41322**	**.67863**	**.20301**	**81.182**	**.20440**	**.21878**
Stddev	.00049	.051	.00153	.00050	.00149	.00033	.078	.00041	.00020
%RSD	1.0325	.12689	.72077	.12045	.21942	.16332	.09651	.19856	.09198
#1	.04719	39.964	.21141	.41357	.67758	.20277	81.126	.20469	.21892
#2	.04788	39.892	.21357	.41287	.67968	.20324	81.237	.20411	.21863
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.26240**	**.22195**	**36.397**	**19.960**	**23.671**	**.22017**	**23.850**	**.65277**	**.21660**
Stddev	.00119	.00020	.048	.045	.022	.00117	.031	.00054	.00014
%RSD	.45385	.08891	.13278	.22722	.09319	.53120	.12793	.08202	.06247
#1	.26156	.22209	36.431	19.928	23.687	.22100	23.828	.65239	.21650
#2	.26324	.22181	36.363	19.992	23.656	.21935	23.872	.65315	.21669
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**53.953**	**.22782**	**.23527**	F **10.48**	**.20552**	**.20294**	**64.739**	**.21419**	**.36517**
Stddev	.285	.00108	.00025	.01	.00223	.00312	.115	.00072	.00032
%RSD	.52866	.47214	.10558	.1249	1.0858	1.5350	.17793	.33814	.08855
#1	53.751	.22858	.23544	10.47	.20710	.20074	64.821	.21470	.36494
#2	54.155	.22706	.23509	10.49	.20394	.20514	64.658	.21368	.36540
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**1.3366**	**.20478**	**.26283**	**.28220**
Stddev	.0010	.00020	.00050	.00155
%RSD	.07087	.09582	.19161	.54857
#1	1.3373	.20492	.26248	.28111
#2	1.3360	.20465	.26319	.28330
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3870.5**	**7083.1**	**64837.**	**10680.**
Stddev	6.0	1.5	1.	28.
%RSD	.15585	.02186	.00188	.26137
#1	3866.3	7082.0	64837.	10700.
#2	3874.8	7084.2	64838.	10660.

Sample Name: 480-30152-C-3-E MS Acquired: 12/19/2012 17:24:47 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05298	11.146	.21745	.42678	.45506	.21685	82.177	.21404	.21751
Stddev	.00074	.032	.00079	.00054	.00185	.00142	.415	.00077	.00066
%RSD	1.4003	.28390	.36489	.12559	.40735	.65265	.50462	.36117	.30369
#1	.05350	11.169	.21689	.42715	.45637	.21785	82.470	.21458	.21798
#2	.05245	11.124	.21801	.42640	.45375	.21585	81.883	.21349	.21704
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21264	.21525	10.571	13.430	15.673	.21056	18.848	.29764	.22127
Stddev	.00153	.00078	.071	.122	.028	.00264	.164	.00272	.00054
%RSD	.72148	.36404	.66919	.91170	.17842	1.2534	.86768	.91400	.24571
#1	.21372	.21580	10.621	13.517	15.653	.21243	18.964	.29957	.22166
#2	.21155	.21469	10.521	13.343	15.693	.20870	18.732	.29572	.22089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	58.534	.21250	.21356	F 11.04	.21702	.20922	20.058	.21221	.36830
Stddev	.162	.00032	.00215	.01	.00130	.00254	.155	.00073	.00283
%RSD	.27759	.15018	1.0084	.0983	.59958	1.2143	.77033	.34421	.76710
#1	58.649	.21272	.21508	11.05	.21794	.21101	20.167	.21273	.37030
#2	58.419	.21227	.21204	11.03	.21609	.20742	19.949	.21170	.36630
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	.22251	.20880	.21923	.21924
Stddev	.00276	.00198	.00178	.00145
%RSD	1.2405	.94989	.81362	.66055
#1	.22446	.21020	.22049	.22027
#2	.22056	.20740	.21797	.21822
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3904.4	6992.4	63872.	10391.
Stddev	4.2	11.3	340.	45.
%RSD	.10848	.16208	.53229	.43439
#1	3901.4	6984.4	63632.	10359.
#2	3907.4	7000.4	64113.	10423.

Sample Name: 480-30152-C-3-F MSD Acquired: 12/19/2012 17:27:05 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05296	10.922	.22031	.43175	.45864	.21628	83.068	.21674	.21954
Stddev	.00018	.025	.00201	.00236	.00430	.00122	.690	.00127	.00103
%RSD	.34221	.23317	.91396	.54611	.93820	.56323	.83089	.58804	.47027
#1	.05309	10.904	.22173	.43342	.45560	.21542	82.580	.21764	.22027
#2	.05283	10.940	.21888	.43008	.46168	.21714	83.556	.21584	.21881
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21579	.21738	10.460	13.277	15.722	.20986	19.206	.29929	.22305
Stddev	.00226	.00280	.043	.085	.118	.00042	.214	.00302	.00141
%RSD	1.0458	1.2890	.41235	.64134	.75142	.19892	1.1153	1.0096	.63274
#1	.21739	.21937	10.429	13.217	15.638	.21015	19.358	.30143	.22405
#2	.21419	.21540	10.490	13.338	15.805	.20956	19.055	.29715	.22205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	59.984	.21551	.21649	F 11.22	.21479	.21508	15.939	.21615	.36790
Stddev	.511	.00111	.00014	.04	.00231	.00054	.090	.00088	.00324
%RSD	.85209	.51522	.06604	.3129	1.0767	.25017	.56505	.40845	.88095
#1	59.623	.21629	.21659	11.25	.21642	.21546	15.875	.21678	.36561
#2	60.346	.21472	.21638	11.20	.21315	.21470	16.003	.21553	.37020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	.22198	.21434	.22138	.22176
Stddev	.00280	.00364	.00390	.00247
%RSD	1.2600	1.6980	1.7602	1.1160
#1	.22396	.21691	.22414	.22351
#2	.22000	.21176	.21863	.22001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3870.1	6947.4	63214.	10346.
Stddev	17.5	29.0	523.	49.
%RSD	.45164	.41780	.82671	.47830
#1	3857.8	6926.9	62845.	10381.
#2	3882.5	6967.9	63584.	10311.

Sample Name: 480-30152-A-4-B Acquired: 12/19/2012 17:29:23 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00185**	**15.693**	**.00439**	**.07524**	**.27418**	**.00059**	**6.8014**	**-.00069**	**.01045**
Stddev	.00004	.011	.00030	.00009	.00034	.00002	.0113	.00009	.00029
%RSD	2.0909	.06873	6.7621	.12544	.12400	2.8849	.16601	13.248	2.7361
#1	-.00182	15.701	.00460	.07530	.27442	.00061	6.8094	-.00075	.01065
#2	-.00187	15.685	.00418	.07517	.27394	.00058	6.7934	-.00062	.01024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09400**	**.01773**	**24.129**	**3.7653**	**4.3213**	**.01307**	**4.2989**	**.67418**	**.00102**
Stddev	.00103	.00024	.031	.0100	.0230	.00113	.0024	.00128	.00001
%RSD	1.0995	1.3503	.12981	.26610	.53212	8.6862	.05564	.18939	.90386
#1	.09473	.01790	24.151	3.7583	4.3375	.01387	4.3006	.67508	.00102
#2	.09327	.01756	24.107	3.7724	4.3050	.01226	4.2972	.67328	.00101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**51.489**	**.01350**	**.01189**	**8.860**	**.00066**	**.00188**	**23.629**	**.00209**	**.04592**
Stddev	.029	.00010	.00062	.004	.00005	.00442	.076	.00060	.00010
%RSD	.05563	.70944	5.1927	.0473	7.9595	235.53	.32101	28.978	.20905
#1	51.469	.01343	.01232	8.857	.00070	.00500	23.683	.00166	.04598
#2	51.509	.01357	.01145	8.863	.00062	-.00125	23.576	.00251	.04585
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.84215**	**-.00147**	**.04660**	**.03353**
Stddev	.00143	.00034	.00011	.00002
%RSD	.17008	23.133	.22966	.06247
#1	.84114	-.00171	.04668	.03355
#2	.84317	-.00123	.04653	.03352
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4061.6**	**7220.2**	**65437.**	**10549.**
Stddev	3.6	4.7	60.	45.
%RSD	.08925	.06441	.09111	.42222
#1	4059.0	7216.9	65479.	10518.
#2	4064.1	7223.5	65395.	10581.

Sample Name: 480-30152-A-5-B Acquired: 12/19/2012 17:31:34 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**50.390**	**.02536**	**.21702**	**1.4327**	**.00194**	**51.561**	F **-.00127**	**.03155**
Stddev	.00057	.280	.00051	.00043	.0046	.00001	.223	.00005	.00014
%RSD	101.01	.55649	2.0189	.19857	.32010	.63489	.43310	3.8639	.44882
#1	.00097	50.191	.02500	.21672	1.4294	.00194	51.403	-.00131	.03145
#2	.00016	50.588	.02573	.21733	1.4359	.00195	51.719	-.00124	.03165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit								15.000	
Low Limit								-.00100	

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08388**	**.08424**	**70.524**	**11.027**	**15.028**	**.08643**	**20.885**	**2.1918**	**.00135**
Stddev	.00024	.00029	.348	.104	.073	.00042	.090	.0133	.00011
%RSD	.28764	.34108	.49314	.94273	.48476	.48225	.42869	.60438	7.9948
#1	.08405	.08444	70.278	10.953	14.976	.08613	20.948	2.2011	.00143
#2	.08371	.08404	70.770	11.100	15.079	.08672	20.821	2.1824	.00127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**112.56**	**.05612**	**.04216**	**5.851**	**-.00206**	**.00112**	**51.234**	**.00647**	**.21928**
Stddev	.79	.00028	.00128	.024	.00061	.00252	.148	.00007	.00058
%RSD	.70326	.50005	3.0392	.4009	29.722	225.80	.28868	1.1545	.26371
#1	112.00	.05632	.04126	5.834	-.00249	.00290	51.129	.00641	.21887
#2	113.12	.05592	.04307	5.867	-.00162	-.00067	51.338	.00652	.21968
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**1.7216**	**-.00095**	**.19411**	**.15394**
Stddev	.0098	.00105	.00074	.00133
%RSD	.56618	110.63	.38160	.86649
#1	1.7285	-.00169	.19463	.15488
#2	1.7147	-.00021	.19358	.15299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3774.4**	**7424.4**	**67284.**	**11264.**
Stddev	16.6	23.7	478.	65.
%RSD	.44057	.31861	.70996	.58150
#1	3786.1	7441.1	66946.	11310.
#2	3762.6	7407.6	67621.	11217.

Sample Name: 480-30152-C-6-B Acquired: 12/19/2012 17:33:54 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00119**	**.00997**	**-.00053**	**.00157**	**.00013**	**-.00003**	**.02869**	**-.00015**	**.00005**
Stddev	.00020	.01142	.00010	.00028	.00002	.00005	.00009	.00011	.00000
%RSD	16.808	114.52	18.638	18.073	12.512	160.36	.30322	76.548	2.3576
#1	-.00105	.01805	-.00060	.00178	.00014	-.00007	.02875	-.00023	.00005
#2	-.00133	.00190	-.00046	.00137	.00012	.00000	.02863	-.00007	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**.00050**	**.00531**	**-.00075**	**.00405**	**-.00138**	**-.00102**	**-.00017**	**-.00009**
Stddev	.00050	.00018	.00156	.03851	.00079	.00210	.00289	.00008	.00034
%RSD	141.14	35.158	29.347	5126.3	19.443	152.41	282.93	47.903	371.49
#1	.00000	.00038	.00641	.02648	.00461	-.00286	-.00306	-.00022	.00015
#2	-.00071	.00062	.00421	-.02798	.00349	.00011	.00102	-.00011	-.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00226**	**-.00011**	**.00040**	**.0011**	**.00014**	**-.00166**	**.02030**	**.00009**	**-.00001**
Stddev	.00968	.00031	.00081	.0041	.00051	.00323	.00862	.00016	.00005
%RSD	428.99	289.89	204.29	372.0	357.97	194.14	42.481	190.77	1035.0
#1	.00910	-.00033	-.00018	.0040	.00051	-.00395	.01420	-.00003	.00003
#2	-.00459	.00011	.00097	-.0018	-.00022	.00062	.02640	.00020	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.00179**	**-.00030**	**.00039**
Stddev	.00068	.00182	.00052	.00049
%RSD	1681.6	101.17	170.22	126.48
#1	-.00044	-.00308	.00006	.00073
#2	.00052	-.00051	-.00067	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4398.6**	**7359.9**	**67485.**	**10617.**
Stddev	2.8	5.4	87.	5.
%RSD	.06425	.07378	.12870	.04414
#1	4400.6	7363.7	67423.	10620.
#2	4396.6	7356.0	67546.	10613.

Sample Name: 480-30152-C-7-B Acquired: 12/19/2012 17:36:10 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00178**	**20.042**	**.00452**	**.20918**	**.44762**	**.00096**	**73.877**	**-.00061**	**.00536**
Stddev	.00048	.026	.00034	.00004	.00017	.00006	.097	.00012	.00000
%RSD	26.692	.12745	7.4291	.01697	.03792	6.3805	.13106	20.494	.04978
#1	-.00145	20.060	.00429	.20920	.44774	.00100	73.808	-.00070	.00536
#2	-.00212	20.024	.00476	.20915	.44750	.00091	73.945	-.00052	.00537
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03744**	**.01198**	**17.917**	**7.5050**	**8.8910**	**.01813**	**12.378**	**.35111**	**.00505**
Stddev	.00022	.00037	.009	.0310	.0759	.00073	.037	.00050	.00004
%RSD	.57553	3.0894	.05241	.41270	.85390	4.0404	.29913	.14287	.69370
#1	.03760	.01172	17.924	7.4831	8.9447	.01761	12.352	.35076	.00502
#2	.03729	.01225	17.911	7.5269	8.8373	.01865	12.405	.35147	.00507
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**46.989**	**.01424**	**.02045**	F **10.70**	**-.00086**	**.00129**	**37.810**	**.00476**	**.17277**
Stddev	.009	.00009	.00074	.04	.00105	.00110	.045	.00024	.00028
%RSD	.01911	.59950	3.6022	.3339	122.78	85.437	.11994	4.9603	.16257
#1	46.995	.01418	.02097	10.72	-.00011	.00051	37.842	.00459	.17296
#2	46.983	.01430	.01993	10.67	-.00160	.00207	37.778	.00493	.17257
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.66139**	**-.00083**	**.03874**	**.05078**
Stddev	.00259	.00095	.00044	.00011
%RSD	.39092	113.92	1.1291	.21431
#1	.66322	-.00151	.03843	.05086
#2	.65957	-.00016	.03905	.05071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3962.8**	**7101.3**	**64832.**	**10640.**
Stddev	2.4	17.2	113.	31.
%RSD	.06031	.24176	.17454	.28685
#1	3961.1	7089.1	64752.	10662.
#2	3964.4	7113.4	64912.	10619.

Sample Name: 480-30152-A-8-B Acquired: 12/19/2012 17:38:30 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00081**	**2.4257**	**.00113**	**.02455**	**.57469**	**.00041**	**5.1033**	**.00000**	**.00074**
Stddev	.00033	.0179	.00100	.00023	.00038	.00001	.0027	.00011	.00003
%RSD	41.065	.73971	89.163	.92824	.06568	2.4901	.05193	3918.1	4.0063
#1	-.00105	2.4130	.00042	.02439	.57443	.00041	5.1015	.00008	.00076
#2	-.00058	2.4384	.00184	.02471	.57496	.00042	5.1052	-.00007	.00072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00269**	**.00282**	**3.0721**	**1.1861**	**1.0025**	**.00194**	**1.5882**	**.16128**	**.00016**
Stddev	.00022	.00005	.0217	.0219	.0016	.00069	.0004	.00034	.00040
%RSD	8.0360	1.6500	.70616	1.8487	.16237	35.443	.02426	.20786	243.21
#1	.00254	.00286	3.0568	1.1706	1.0037	.00243	1.5879	.16104	-.00012
#2	.00284	.00279	3.0875	1.2016	1.0014	.00145	1.5884	.16152	.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.5364**	**.00657**	**.00223**	**1.588**	**.00079**	**.00454**	**6.1511**	**.00027**	**.03170**
Stddev	.0007	.00000	.00014	.000	.00122	.00311	.0617	.00008	.00006
%RSD	.01461	.06920	6.1040	.0112	154.64	68.497	1.0034	28.966	.18378
#1	4.5359	.00657	.00232	1.588	-.00007	.00234	6.1947	.00021	.03174
#2	4.5368	.00656	.00213	1.588	.00165	.00674	6.1075	.00033	.03166
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.11555**	**-.00244**	**.00625**	**.34647**
Stddev	.00011	.00278	.00034	.00022
%RSD	.09911	113.87	5.3837	.06264
#1	.11563	-.00440	.00649	.34632
#2	.11546	-.00048	.00601	.34662
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4327.0**	**7330.4**	**66597.**	**10614.**
Stddev	7.1	4.0	268.	7.
%RSD	.16393	.05470	.40289	.06904
#1	4332.0	7333.3	66787.	10619.
#2	4322.0	7327.6	66407.	10609.

Sample Name: 480-30152-A-9-B Acquired: 12/19/2012 17:40:46 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00123**	**.64672**	**-.00101**	**.07321**	**.12932**	**-.00001**	**19.335**	**-.00001**	**.00094**
Stddev	.00116	.02475	.00115	.00006	.00113	.00008	.057	.00003	.00010
%RSD	94.145	3.8269	114.18	.08576	.87747	1032.1	.29401	208.24	10.265
#1	-.00041	.62922	-.00019	.07317	.12852	.00005	19.294	.00001	.00101
#2	-.00204	.66422	-.00182	.07326	.13013	-.00006	19.375	-.00003	.00087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00593**	**.00160**	**.96161**	**2.4197**	**2.7753**	**-.00113**	**3.0557**	**.03106**	**-.00011**
Stddev	.00028	.00055	.00379	.0144	.0106	.00055	.0134	.00007	.00013
%RSD	4.7857	34.291	.39463	.59500	.38176	49.002	.43799	.21324	114.97
#1	.00573	.00198	.95892	2.4095	2.7678	-.00152	3.0462	.03102	-.00020
#2	.00613	.00121	.96429	2.4298	2.7828	-.00074	3.0652	.03111	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**47.454**	**.00054**	**.00048**	F **11.29**	**.00148**	**.00138**	**6.1852**	**-.00009**	**.05099**
Stddev	.284	.00040	.00095	.01	.00053	.00430	.0035	.00020	.00007
%RSD	.59848	74.533	197.17	.0443	35.531	311.24	.05641	229.57	.14235
#1	47.253	.00082	-.00019	11.29	.00185	.00442	6.1876	-.00023	.05094
#2	47.654	.00025	.00115	11.29	.00111	-.00166	6.1827	.00006	.05104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.03340**	**-.00105**	**.00256**	**.00186**
Stddev	.00044	.00105	.00020	.00030
%RSD	1.3061	100.34	7.7709	16.263
#1	.03310	-.00179	.00270	.00207
#2	.03371	-.00030	.00241	.00164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4100.1**	**7079.8**	**64466.**	**10556.**
Stddev	14.1	28.1	381.	16.
%RSD	.34504	.39698	.59026	.15111
#1	4090.1	7059.9	64735.	10545.
#2	4110.1	7099.6	64197.	10567.

Sample Name: 480-30152-A-10-B Acquired: 12/19/2012 17:42:58 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00113**	**7.2531**	**.00142**	**.10499**	**.38908**	**.00031**	**41.129**	**-.00027**	**.00369**
Stddev	.00020	.0510	.00046	.00024	.00062	.00010	.019	.00003	.00014
%RSD	17.659	.70258	32.398	.22567	.15824	33.163	.04631	11.172	3.8050
#1	-.00127	7.2171	.00110	.10515	.38864	.00024	41.115	-.00029	.00379
#2	-.00099	7.2891	.00175	.10482	.38951	.00038	41.142	-.00025	.00359
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00773**	**.01197**	**8.0286**	**2.9631**	**3.5692**	**.00778**	**7.8776**	**.58298**	**.00005**
Stddev	.00007	.00025	.0192	.0029	.0428	.00056	.0260	.00350	.00034
%RSD	.89440	2.1003	.23858	.09723	1.1995	7.2296	.32943	.60084	635.86
#1	.00768	.01179	8.0151	2.9611	3.5995	.00739	7.8592	.58051	-.00019
#2	.00778	.01215	8.0421	2.9652	3.5389	.00818	7.8959	.58546	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**60.923**	**.00452**	**.00314**	**5.223**	**.00044**	**-.00374**	**16.755**	**.00059**	**.19024**
Stddev	.122	.00033	.00212	.007	.00037	.00320	.118	.00021	.00018
%RSD	.19983	7.3464	67.747	.1267	85.006	85.601	.70706	36.188	.09643
#1	60.837	.00429	.00464	5.218	.00017	-.00148	16.672	.00044	.19011
#2	61.009	.00476	.00163	5.227	.00070	-.00600	16.839	.00074	.19037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.24134**	**-.00089**	**.02462**	**.01580**
Stddev	.00599	.00149	.00056	.00020
%RSD	2.4831	166.86	2.2848	1.2484
#1	.23710	.00016	.02422	.01566
#2	.24557	-.00195	.02502	.01594
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3984.1**	**7097.7**	**64337.**	**10578.**
Stddev	4.0	6.0	351.	36.
%RSD	.09984	.08522	.54535	.34321
#1	3986.9	7101.9	64585.	10552.
#2	3981.3	7093.4	64089.	10603.

Sample Name: CCV Acquired: 12/19/2012 17:45:12 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49509	23.790	.49801	.49509	.47928	.48543	24.221	.49836	.49360	.50181	.49864	23.587	24.448
Stddev	.00328	.130	.00010	.00159	.00342	.00181	.117	.00020	.00039	.00147	.00006	.088	.081
%RSD	.66243	.54504	.02099	.32060	.71259	.37236	.48314	.03955	.07917	.29342	.01112	.37503	.33050
#1	.49277	23.698	.49808	.49622	.47687	.48415	24.138	.49850	.49333	.50285	.49868	23.524	24.391
#2	.49740	23.882	.49793	.49397	.48170	.48671	24.303	.49822	.49388	.50077	.49860	23.649	24.505
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.095	.48219	23.850	.49479	.50236	24.428	.49401	.50000	24.48	.50045	.49418	23.962	.51658
Stddev	.175	.00014	.081	.00103	.00044	.059	.00048	.00090	.04	.00203	.00361	.188	.00042
%RSD	.69684	.02983	.34153	.20855	.08832	.24269	.09770	.18096	.1651	.40554	.73101	.78269	.08145
#1	25.219	.48229	23.792	.49406	.50268	24.386	.49435	.49936	24.45	.50188	.49674	23.829	.51628
#2	24.972	.48209	23.907	.49552	.50205	24.470	.49367	.50064	24.51	.49901	.49163	24.094	.51687
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	.48781	.49989	.50078	.50028	.51221
Stddev	.00259	.00029	.00029	.00137	.00164
%RSD	.53169	.05846	.05858	.27373	.32078
#1	.48597	.49969	.50058	.50125	.51337
#2	.48964	.50010	.50099	.49931	.51105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3976.2	7075.8	64363.	10368.
Stddev	.3	9.0	181.	10.
%RSD	.00714	.12775	.28172	.09604
#1	3976.0	7069.4	64235.	10361.
#2	3976.4	7082.2	64491.	10375.

Sample Name: CCB Acquired: 12/19/2012 17:47:26 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**-.00424**	**-.00108**	**.00028**	**.00009**	**.00009**	**.00394**	**-.00001**	**.00002**	**-.00046**	**.00111**	**.00206**	**-.01937**
Stddev	.00065	.00884	.00013	.00023	.00008	.00001	.00219	.00003	.00011	.00037	.00002	.00037	.03714
%RSD	653.63	208.35	11.699	79.949	88.961	9.7643	55.592	206.26	699.65	80.203	2.0534	17.905	191.77
#1	-.00055	.00201	-.00116	.00012	.00003	.00009	.00239	-.00004	-.00006	-.00073	.00113	.00233	-.04563
#2	.00036	-.01049	-.00099	.00045	.00015	.00008	.00548	.00001	.00009	-.00020	.00109	.00180	.00690
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00452**	**-.00002**	**.00369**	**.00005**	**.00013**	**.01532**	**-.00030**	**-.00030**	F **.0034**	**.00245**	**-.00129**	**-.00108**	**-.00052**
Stddev	.00089	.00129	.00696	.00014	.00009	.00528	.00039	.00125	.0002	.00012	.00107	.00626	.00013
%RSD	19.767	6861.0	188.52	257.37	70.707	34.449	131.03	412.05	6.212	5.0594	83.364	582.07	25.720
#1	.00389	-.00093	-.00123	-.00004	.00006	.01159	-.00002	-.00119	.0032	.00236	-.00053	.00335	-.00042
#2	.00515	.00090	.00861	.00015	.00019	.01906	-.00057	.00058	.0035	.00254	-.00204	-.00551	-.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									.0030				
Low Limit									-.0040				

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**-.00013**	**-.00153**	**.00004**	**.00052**
Stddev	.00005	.00044	.00168	.00022	.00028
%RSD	586.32	331.77	109.38	589.09	53.723
#1	-.00004	-.00044	-.00272	.00019	.00072
#2	.00003	.00018	-.00035	-.00012	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4309.8**	**7206.9**	**65447.**	**10279.**
Stddev	85.3	147.6	250.	12.
%RSD	1.9795	2.0481	.38167	.11795
#1	4370.1	7311.3	65271.	10287.
#2	4249.5	7102.6	65624.	10270.

Sample Name: 480-30152-A-11-B Acquired: 12/19/2012 17:49:47 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00089**	**.01645**	**.06963**	**.01578**	**.00014**	**-.00006**	**.02996**	**.00245**	**-.00228**
Stddev	.00008	.01001	.03146	.00481	.00000	.00005	.00048	.00105	.00086
%RSD	8.4794	60.856	45.188	30.483	3.4065	81.735	1.5866	42.837	37.894
#1	-.00083	.02353	.04738	.01238	.00014	-.00009	.03030	.00171	-.00167
#2	-.00094	.00937	.09187	.01918	.00014	-.00002	.02963	.00319	-.00289
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00059**	**.00083**	**.00093**	**-.00387**	**.00310**	**-.00064**	**.00778**	**-.00025**	**.00280**
Stddev	.00068	.00009	.00142	.01930	.00011	.00030	.00018	.00010	.00151
%RSD	114.90	11.210	152.44	498.35	3.4368	47.069	2.3623	39.521	54.019
#1	.00011	.00089	.00194	.00977	.00303	-.00043	.00765	-.00018	.00173
#2	.00107	.00076	-.00007	-.01752	.00318	-.00085	.00791	-.00032	.00387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.03072**	**.00629**	**.00927**	**6.034**	F **-.05641**	F **-.08348**	**-.00605**	**.01260**	**-.00006**
Stddev	.00042	.00426	.00774	2.595	.01597	.03352	.01418	.00650	.00006
%RSD	1.3733	67.781	83.545	43.01	28.302	40.158	234.35	51.544	109.09
#1	-.03102	.00328	.00379	4.199	-.04512	-.05978	.00398	.00801	-.00001
#2	-.03042	.00931	.01474	7.869	-.06770	-.10719	-.01608	.01720	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit					50.000	80.000			
Low Limit					-.02000	-.01500			

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**-.00088**	**.02697**	**.00020**	**.00142**
Stddev	.00046	.01984	.00026	.00026
%RSD	51.673	73.554	126.93	18.548
#1	-.00056	.01294	.00002	.00161
#2	-.00121	.04100	.00039	.00124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4021.2**	**6848.8**	**63791.**	**10433.**
Stddev	55.6	67.0	399.	114.
%RSD	1.3823	.97762	.62538	1.0906
#1	4060.5	6896.1	64073.	10513.
#2	3981.9	6801.4	63509.	10352.

Sample Name: 480-30152-A-12-B Acquired: 12/19/2012 17:51:52 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00094**	**1.3686**	**.00159**	**.23748**	**.32110**	**.00005**	**17.319**	**-.00021**	**.00231**
Stddev	.00027	.0234	.00061	.00047	.00028	.00003	.037	.00015	.00028
%RSD	28.980	1.7090	38.344	.19706	.08587	67.280	.21114	73.363	11.970
#1	-.00074	1.3851	.00116	.23781	.32130	.00002	17.345	-.00010	.00250
#2	-.00113	1.3521	.00202	.23715	.32091	.00007	17.293	-.00031	.00211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00152**	**.00518**	**3.1304**	**4.0850**	**5.5484**	**.00105**	**3.1634**	**.47020**	**-.00007**
Stddev	.00021	.00001	.0712	.0538	.0390	.00170	.0097	.00042	.00013
%RSD	13.552	.27200	2.2741	1.3161	.70247	161.75	.30544	.08916	183.80
#1	.00137	.00517	3.1807	4.1230	5.5759	-.00015	3.1702	.47050	-.00017
#2	.00166	.00519	3.0801	4.0470	5.5208	.00225	3.1566	.46991	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**126.25**	**.00133**	**.00168**	**7.626**	**-.00032**	**.00353**	**7.7756**	**.00016**	**.07966**
Stddev	.01	.00022	.00081	.031	.00032	.00436	.0440	.00023	.00040
%RSD	.00689	16.587	48.205	.4044	101.10	123.41	.56575	142.18	.50797
#1	126.26	.00117	.00226	7.648	-.00054	.00045	7.7444	.00033	.07995
#2	126.25	.00149	.00111	7.605	-.00009	.00661	7.8067	.00000	.07938
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.05526**	**-.00168**	**.00485**	**.06217**
Stddev	.00074	.00142	.00034	.00054
%RSD	1.3455	84.598	7.0550	.87285
#1	.05578	-.00067	.00461	.06178
#2	.05473	-.00268	.00509	.06255
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3985.6**	**7090.0**	**64536.**	**10415.**
Stddev	3.6	9.8	45.	79.
%RSD	.09107	.13782	.06947	.75952
#1	3983.1	7083.1	64568.	10359.
#2	3988.2	7096.9	64505.	10471.

Sample Name: 480-30328-C-10-A Acquired: 12/19/2012 17:54:06 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**3.0099**	**.00667**	**.47761**	**.07280**	**.00006**	**52.100**	**-.00038**	**.00493**
Stddev	.00076	.0408	.00075	.00157	.00002	.00011	.428	.00005	.00002
%RSD	152.22	1.3570	11.292	.32788	.02708	185.29	.82165	13.571	.45790
#1	.00004	2.9810	.00614	.47872	.07279	-.00002	51.797	-.00042	.00491
#2	-.00104	3.0387	.00720	.47650	.07281	.00013	52.402	-.00035	.00494
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00582**	**.00831**	**21.094**	**23.103**	**32.624**	**.01397**	**40.408**	**1.2010**	**.00191**
Stddev	.00028	.00010	.148	.239	.071	.00001	.235	.0078	.00006
%RSD	4.8168	1.1837	.70017	1.0341	.21750	.10694	.58044	.65235	3.2793
#1	.00602	.00838	20.989	22.934	32.574	.01396	40.242	1.1955	.00195
#2	.00562	.00824	21.198	23.272	32.674	.01398	40.574	1.2065	.00186
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**233.29**	**.00456**	**.02810**	**1.960**	**-.00057**	**.00012**	**16.639**	**.00767**	**.48795**
Stddev	1.32	.00048	.00025	.000	.00008	.00050	.075	.00013	.00397
%RSD	.56623	10.485	.88148	.0172	13.390	421.62	.44946	1.7440	.81278
#1	232.35	.00422	.02827	1.960	-.00063	-.00024	16.586	.00776	.48514
#2	234.22	.00490	.02792	1.960	-.00052	.00047	16.692	.00757	.49075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.17868**	**.00127**	**.00991**	**.03726**
Stddev	.00052	.00147	.00045	.00005
%RSD	.29006	116.01	4.5805	.13040
#1	.17905	.00230	.00959	.03723
#2	.17832	.00023	.01023	.03730
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3711.4**	**6863.0**	**62581.**	**10470.**
Stddev	11.5	24.6	149.	59.
%RSD	.31079	.35892	.23798	.56757
#1	3703.3	6845.6	62686.	10512.
#2	3719.6	6880.4	62475.	10428.

Sample Name: 480-30328-C-11-A Acquired: 12/19/2012 17:56:31 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00063**	**.64907**	**.00428**	**1.0477**	**.16110**	**.00003**	**129.85**	**-.00021**	**.00097**
Stddev	.00064	.00586	.00063	.0010	.00115	.00005	.69	.00027	.00002
%RSD	101.88	.90319	14.761	.09307	.71486	177.19	.52816	125.53	2.4348
#1	-.00018	.65322	.00383	1.0470	.16191	-.00001	129.37	-.00002	.00095
#2	-.00108	.64493	.00473	1.0484	.16028	.00007	130.34	-.00040	.00099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00509**	**.00619**	**23.886**	**57.043**	**85.085**	**.07292**	**96.977**	**2.1575**	**.00239**
Stddev	.00005	.00013	.038	.272	.170	.00112	.716	.0129	.00009
%RSD	.93777	2.0189	.15742	.47664	.20031	1.5411	.73809	.59777	3.6443
#1	.00505	.00610	23.860	56.851	85.206	.07212	97.483	2.1666	.00233
#2	.00512	.00628	23.913	57.236	84.965	.07371	96.471	2.1484	.00245
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**885.23**	**.00283**	**.08360**	**4.278**	**-.00105**	**.00396**	**15.464**	**.00185**	**1.0899**
Stddev	4.92	.00080	.00041	.009	.00083	.00048	.085	.00004	.0045
%RSD	.55591	28.107	.48694	.2068	79.063	12.208	.55286	1.9897	.41600
#1	881.75	.00227	.08331	4.284	-.00046	.00430	15.404	.00183	1.0867
#2	888.71	.00340	.08389	4.272	-.00163	.00362	15.524	.00188	1.0931
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.04867**	**-.00237**	**.01911**	**.02382**
Stddev	.00208	.00141	.00029	.00014
%RSD	4.2680	59.321	1.5071	.60822
#1	.04720	-.00138	.01891	.02372
#2	.05014	-.00337	.01932	.02392
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3302.7**	**6390.1**	**57658.**	**10130.**
Stddev	2.4	7.4	207.	57.
%RSD	.07376	.11601	.35927	.56204
#1	3301.0	6395.3	57511.	10170.
#2	3304.4	6384.8	57804.	10090.

Sample Name: 480-30328-C-12-A Acquired: 12/19/2012 17:58:57 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00085**	**.06811**	**.00936**	**.74256**	**.34792**	**.00003**	**176.41**	**-.00030**	**.00223**
Stddev	.00040	.00941	.00138	.00197	.00004	.00003	.04	.00026	.00008
%RSD	47.113	13.813	14.752	.26504	.01031	133.24	.02447	88.239	3.4096
#1	-.00056	.07476	.01033	.74395	.34795	.00005	176.44	-.00049	.00228
#2	-.00113	.06146	.00838	.74117	.34789	.00000	176.38	-.00011	.00217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00244**	**.00531**	**43.445**	**56.907**	**86.450**	**.10305**	**98.624**	**3.0786**	**.00322**
Stddev	.00065	.00014	.073	.145	.801	.00221	.037	.0077	.00040
%RSD	26.729	2.6038	.16873	.25531	.92682	2.1429	.03776	.24936	12.498
#1	.00197	.00521	43.496	57.010	87.016	.10461	98.598	3.0732	.00294
#2	.00290	.00541	43.393	56.804	85.883	.10149	98.650	3.0840	.00350
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1117.9**	**.00073**	**.00271**	F **11.79**	**-.00183**	**.00290**	**13.709**	**-.00010**	**1.3007**
Stddev	2.5	.00065	.00010	.02	.00023	.00139	.041	.00009	.0018
%RSD	.22396	89.341	3.6121	.1705	12.614	48.043	.29846	91.704	.13664
#1	1119.7	.00119	.00278	11.81	-.00167	.00389	13.681	-.00017	1.3020
#2	1116.1	.00027	.00264	11.78	-.00199	.00192	13.738	-.00004	1.2995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00492**	**-.00191**	**.00476**	**.00589**
Stddev	.00057	.00275	.00068	.00003
%RSD	11.645	143.72	14.330	.49877
#1	.00451	-.00385	.00428	.00587
#2	.00532	.00003	.00524	.00591
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3216.0**	**6288.3**	**56421.**	**10112.**
Stddev	.7	11.3	266.	7.
%RSD	.02163	.18021	.47087	.06957
#1	3216.5	6280.3	56233.	10107.
#2	3215.5	6296.3	56609.	10117.

Sample Name: 480-30328-C-13-A Acquired: 12/19/2012 18:01:21 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00114**	**1.8430**	**.00387**	**.41177**	**1.0506**	**-.00004**	**141.33**	**-.00022**	**.00150**
Stddev	.00029	.0110	.00110	.00252	.0004	.00007	.02	.00018	.00014
%RSD	25.570	.59680	28.408	.61089	.03629	171.54	.01351	82.821	9.5842
#1	-.00093	1.8352	.00309	.41000	1.0504	.00001	141.34	-.00035	.00160
#2	-.00134	1.8508	.00464	.41355	1.0509	-.00009	141.31	-.00009	.00140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00440**	**.10521**	**27.103**	**18.353**	**26.470**	**.04301**	**24.315**	**.67613**	**.00285**
Stddev	.00024	.00015	.070	.058	.040	.00018	.005	.00178	.00019
%RSD	5.3987	.13884	.26006	.31568	.15172	.40804	.01913	.26311	6.6059
#1	.00457	.10531	27.152	18.394	26.498	.04313	24.318	.67738	.00298
#2	.00424	.10510	27.053	18.312	26.442	.04289	24.312	.67487	.00272
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**263.78**	**.00542**	**.02021**	**4.765**	**-.00021**	**.00248**	**15.572**	**.00372**	**.95203**
Stddev	.36	.00013	.00055	.007	.00040	.00102	.011	.00110	.00045
%RSD	.13542	2.4130	2.7071	.1508	192.08	40.878	.07354	29.566	.04747
#1	264.03	.00551	.02060	4.760	-.00050	.00177	15.580	.00294	.95235
#2	263.53	.00533	.01983	4.770	.00008	.00320	15.564	.00450	.95171
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.12714**	**-.00099**	**.00657**	**.06292**
Stddev	.00041	.00259	.00015	.00050
%RSD	.32471	261.87	2.2779	.78852
#1	.12685	.00084	.00668	.06257
#2	.12743	-.00282	.00647	.06327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3622.8**	**6708.8**	**60854.**	**10287.**
Stddev	7.9	13.4	18.	13.
%RSD	.21726	.20019	.02914	.12757
#1	3628.3	6718.3	60867.	10277.
#2	3617.2	6699.3	60842.	10296.

Sample Name: 480-30316-A-2-A Acquired: 12/19/2012 18:03:50 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.01751**	**.35616**	**.00747**	**.09038**	**.00001**	**7.1877**	**.00326**	**.00305**
Stddev	.00018	.00167	.00060	.00035	.00018	.00007	.0200	.00001	.00013
%RSD	329.23	9.5394	.16767	4.6632	.19847	1200.2	.27799	.25947	4.1713
#1	-.00007	.01869	.35574	.00722	.09025	-.00004	7.2019	.00326	.00296
#2	.00018	.01633	.35659	.00771	.09050	.00005	7.1736	.00327	.00314
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00164**	**.00142**	**46.338**	**.63664**	**.63020**	**-.00057**	**8.6383**	**9.6704**	**.00025**
Stddev	.00012	.00003	.042	.01980	.00151	.00162	.0258	.0158	.00035
%RSD	7.4219	2.2166	.09135	3.1104	.23919	283.93	.29836	.16344	137.46
#1	.00173	.00144	46.308	.62263	.63127	.00057	8.6201	9.6816	.00050
#2	.00156	.00140	46.368	.65064	.62914	-.00172	8.6565	9.6592	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**27.009**	**.00136**	**.00013**	**.3440**	**.00075**	**.00314**	**3.1642**	**-.00011**	**.05727**
Stddev	.080	.00037	.00091	.0040	.00150	.00509	.0147	.00006	.00002
%RSD	.29800	27.515	706.83	1.156	201.85	162.22	.46356	59.503	.03125
#1	27.066	.00110	-.00052	.3412	-.00032	.00674	3.1746	-.00015	.05726
#2	26.952	.00163	.00078	.3468	.00181	-.00046	3.1538	-.00006	.05728
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00018**	**.00542**	**.00347**	**.00380**
Stddev	.00036	.00203	.00002	.00028
%RSD	207.69	37.505	.44797	7.3276
#1	-.00008	.00398	.00348	.00360
#2	.00043	.00685	.00346	.00399
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4144.6**	**7188.6**	**65487.**	**10662.**
Stddev	5.9	10.2	115.	13.
%RSD	.14351	.14160	.17521	.11740
#1	4148.8	7195.8	65568.	10671.
#2	4140.4	7181.4	65406.	10653.

Sample Name: 480-30316-A-2-A SD@5 Acquired: 12/19/2012 18:06:08 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.23237**	**.06942**	**.00148**	**.01790**	**.00009**	**1.4585**	**.00064**	**.00067**
Stddev	.00090	.00098	.00023	.00032	.00006	.00001	.0160	.00005	.00010
%RSD	1037.9	.42268	.33095	21.842	.34451	11.641	1.0992	8.5419	14.363
#1	.00055	.23307	.06925	.00125	.01795	.00008	1.4699	.00060	.00074
#2	-.00072	.23168	.06958	.00171	.01786	.00010	1.4472	.00068	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.00150**	**9.3575**	**.12266**	**.10151**	**-.00125**	**1.6933**	**1.9781**	**-.00002**
Stddev	.00019	.00014	.0498	.03096	.00097	.00082	.0026	.0083	.00017
%RSD	143.27	9.0897	.53168	25.236	.95662	65.671	.15439	.41931	714.71
#1	.00000	.00140	9.3926	.14455	.10220	-.00067	1.6951	1.9839	.00009
#2	.00026	.00159	9.3223	.10077	.10083	-.00183	1.6914	1.9722	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.4840**	**-.00017**	**-.00003**	**.0649**	**.00010**	**-.00026**	**.62044**	**-.00002**	**.01139**
Stddev	.0521	.00033	.00061	.0005	.00129	.00272	.00768	.00052	.00027
%RSD	.94938	194.93	2073.0	.8315	1231.6	1051.6	1.2380	2332.4	2.3592
#1	5.5208	.00006	.00041	.0653	.00102	.00166	.62587	-.00039	.01158
#2	5.4472	-.00040	-.00046	.0645	-.00081	-.00218	.61501	.00035	.01120
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.00034**	**.00113**	**.27637**
Stddev	.00017	.00269	.00048	.00070
%RSD	487.95	796.29	42.541	.25223
#1	-.00009	.00157	.00147	.27587
#2	.00016	-.00224	.00079	.27686
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4282.4**	**7256.0**	**66446.**	**10479.**
Stddev	3.3	2.7	80.	117.
%RSD	.07735	.03747	.12079	1.1168
#1	4280.1	7254.1	66503.	10396.
#2	4284.8	7258.0	66389.	10562.

Sample Name: 480-30316-A-2-A PDS Acquired: 12/19/2012 18:08:22 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05024	9.9686	.56045	.21669	.29638	.20829	17.036	.21420	.21781
Stddev	.00035	.0072	.00419	.00156	.00115	.00017	.025	.00172	.00200
%RSD	.69565	.07242	.74838	.71958	.38707	.08108	.14653	.80384	.91940
#1	.05049	9.9737	.55748	.21558	.29557	.20841	17.054	.21298	.21640
#2	.05000	9.9635	.56341	.21779	.29719	.20817	17.018	.21542	.21923
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20940	.21027	54.994	10.641	11.940	.20148	18.447	9.4544	.21559
Stddev	.00187	.00182	.300	.004	.043	.00083	.018	.0780	.00146
%RSD	.89403	.86578	.54506	.04057	.35847	.41219	.10010	.82463	.67668
#1	.20807	.20898	55.206	10.644	11.909	.20207	18.434	9.3992	.21455
#2	.21072	.21156	54.783	10.638	11.970	.20090	18.460	9.5095	.21662
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	36.231	.21155	.21384	.3314	.20980	.21150	13.210	.20846	.25688
Stddev	.037	.00106	.00371	.0029	.00193	.00325	.029	.00201	.00050
%RSD	.10091	.50145	1.7365	.8844	.91925	1.5383	.21964	.96609	.19610
#1	36.257	.21080	.21122	.3293	.20844	.20920	13.189	.20704	.25724
#2	36.205	.21230	.21647	.3335	.21116	.21380	13.230	.20989	.25653
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	.20371	.21456	.21487	.21736
Stddev	.00268	.00287	.00148	.00323
%RSD	1.3142	1.3375	.69011	1.4850
#1	.20181	.21253	.21382	.21508
#2	.20560	.21659	.21592	.21964
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3998.8	7097.7	65265.	10578.
Stddev	37.2	66.0	420.	4.
%RSD	.92974	.92987	.64399	.03387
#1	4025.1	7144.3	65562.	10575.
#2	3972.6	7051.0	64968.	10580.

Sample Name: 480-30316-A-2-B MS Acquired: 12/19/2012 18:10:40 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05329	10.099	.57190	.21707	.30037	.21373	17.472	.21641	.22052
Stddev	.00015	.021	.00293	.00020	.00160	.00010	.085	.00017	.00032
%RSD	.27689	.21176	.51260	.09395	.53246	.04898	.48428	.07940	.14611
#1	.05339	10.115	.57397	.21722	.29924	.21380	17.531	.21654	.22029
#2	.05318	10.084	.56982	.21693	.30150	.21365	17.412	.21629	.22074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21475	.21392	56.547	10.821	12.162	.20308	18.815	9.6841	.21791
Stddev	.00143	.00063	.289	.020	.064	.00047	.142	.0830	.00019
%RSD	.66542	.29313	.51051	.18891	.52496	.23078	.75494	.85666	.08628
#1	.21374	.21347	56.751	10.835	12.207	.20274	18.715	9.6254	.21778
#2	.21576	.21436	56.342	10.807	12.117	.20341	18.916	9.7428	.21805
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	37.376	.21398	.21409	.3414	.21117	.21219	13.441	.21016	.26345
Stddev	.052	.00035	.00062	.0030	.00047	.00006	.081	.00019	.00001
%RSD	.13828	.16585	.29151	.8785	.22239	.02838	.59898	.09272	.00453
#1	37.412	.21373	.21365	.3435	.21083	.21215	13.498	.21002	.26344
#2	37.339	.21423	.21453	.3393	.21150	.21224	13.384	.21029	.26346
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	.20780	.21433	.21836	.22229
Stddev	.00081	.00140	.00004	.00056
%RSD	.38992	.65404	.01831	.25158
#1	.20723	.21532	.21833	.22189
#2	.20838	.21333	.21839	.22268
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4016.2	7134.8	65031.	10523.
Stddev	11.8	16.3	160.	33.
%RSD	.29496	.22903	.24562	.31421
#1	4024.5	7146.3	65144.	10499.
#2	4007.8	7123.2	64918.	10546.

Sample Name: CCV Acquired: 12/19/2012 18:13:00 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50514	24.031	.50781	.50564	.48951	.48691	24.476	.50881	.50393	.51008	.50697	23.534	24.630
Stddev	.00004	.312	.00708	.00846	.00673	.00547	.308	.00770	.00726	.00207	.00106	.259	.224
%RSD	.00722	1.2991	1.3945	1.6723	1.3753	1.1242	1.2584	1.5135	1.4411	.40674	.20825	1.1022	.91137
#1	.50511	24.252	.50281	.49966	.49427	.49078	24.694	.50336	.49879	.51155	.50772	23.717	24.789
#2	.50516	23.811	.51282	.51162	.48475	.48303	24.258	.51425	.50906	.50862	.50622	23.351	24.472
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.355	.48777	24.585	.51148	.51390	24.450	.50394	.51139	24.86	.51278	.50142	24.201	.52798
Stddev	.016	.00532	.157	.00392	.00720	.190	.00612	.00721	.36	.00454	.00186	.288	.00844
%RSD	.06453	1.0913	.63859	.76632	1.4010	.77724	1.2140	1.4093	1.432	.88510	.37178	1.1903	1.5990
#1	25.367	.49153	24.696	.51425	.50881	24.585	.49961	.50629	24.61	.50957	.50010	24.405	.52201
#2	25.344	.48401	24.474	.50870	.51899	24.316	.50826	.51648	25.12	.51599	.50274	23.997	.53395
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	.49000	.50789	.50923	.50892	.51599
Stddev	.00522	.00022	.00586	.00122	.00295
%RSD	1.0653	.04410	1.1510	.23932	.57140
#1	.49369	.50805	.50508	.50978	.51808
#2	.48631	.50774	.51337	.50806	.51391
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3931.0	6998.3	63727.	10335.
Stddev	40.2	72.7	183.	94.
%RSD	1.0218	1.0391	.28692	.90995
#1	3959.4	7049.8	63598.	10269.
#2	3902.6	6946.9	63857.	10402.

Sample Name: CCB Acquired: 12/19/2012 18:15:14 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00090**	**.00775**	**.00240**	**.00052**	**.00006**	**.00021**	**.00929**	**-.00001**	**-.00003**	**-.00058**	**.00062**	**.00837**	**-.00355**
Stddev	.00032	.00002	.00225	.00038	.00000	.00007	.00388	.00001	.00015	.00005	.00003	.00757	.00801
%RSD	35.259	.31127	93.951	72.546	.73885	32.988	41.796	99.160	447.04	8.8111	4.8515	90.413	225.65
#1	-.00112	.00777	.00081	.00079	.00006	.00026	.01203	-.00002	-.00014	-.00062	.00060	.01372	.00211
#2	-.00067	.00773	.00399	.00026	.00006	.00016	.00654	.00000	.00007	-.00054	.00065	.00302	-.00921
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00530**	**-.00104**	**.00069**	**.00019**	**-.00014**	**.04685**	**-.00003**	**-.00008**	**-.0011**	**.00176**	**.00111**	**.00669**	**-.00046**
Stddev	.00073	.00020	.00080	.00003	.00023	.00164	.00030	.00051	.0011	.00092	.00213	.00365	.00024
%RSD	13.856	19.123	115.14	13.503	157.68	3.4915	854.97	659.64	106.3	52.023	191.64	54.578	52.012
#1	.00582	-.00119	.00125	.00017	-.00030	.04569	.00018	-.00043	-.0018	.00111	.00262	.00927	-.00029
#2	.00478	-.00090	.00013	.00021	.00002	.04801	-.00025	.00028	-.0003	.00241	-.00039	.00411	-.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**-.00022**	**-.00114**	**-.00021**	**.00009**
Stddev	.00006	.00025	.00060	.00018	.00005
%RSD	29.687	114.52	52.836	86.167	49.475
#1	.00026	-.00004	-.00156	-.00008	.00013
#2	.00017	-.00040	-.00071	-.00034	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4309.0**	**7205.5**	**64349.**	**10368.**
Stddev	5.9	11.4	3496.	18.
%RSD	.13583	.15848	5.4335	.17416
#1	4304.8	7197.4	66822.	10355.
#2	4313.1	7213.6	61877.	10381.

Sample Name: 480-30316-A-2-C MSD Acquired: 12/19/2012 18:17:34 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05273	10.141	.55303	.21084	.29619	.21029	17.444	.21079	.21519
Stddev	.00071	.043	.00308	.00012	.00056	.00207	.122	.00050	.00070
%RSD	1.3409	.42757	.55693	.05622	.18930	.98654	.69921	.23487	.32457
#1	.05323	10.172	.55521	.21076	.29658	.21176	17.531	.21114	.21469
#2	.05223	10.111	.55085	.21092	.29579	.20883	17.358	.21044	.21568
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20978	.20870	55.950	10.748	12.022	.20448	18.606	9.5178	.21301
Stddev	.00039	.00088	.466	.067	.119	.00181	.107	.0828	.00024
%RSD	.18752	.42310	.83368	.62583	.99137	.88535	.57366	.86989	.11296
#1	.21006	.20932	56.280	10.796	12.106	.20576	18.681	9.5764	.21318
#2	.20950	.20808	55.620	10.701	11.938	.20320	18.531	9.4593	.21284
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	36.647	.20959	.20986	.3210	.20701	.20181	13.493	.20444	.25932
Stddev	.259	.00068	.00119	.0040	.00129	.00350	.122	.00101	.00264
%RSD	.70694	.32279	.56881	1.236	.62218	1.7361	.90179	.49546	1.0162
#1	36.830	.20912	.21070	.3182	.20610	.20429	13.579	.20516	.26118
#2	36.464	.21007	.20901	.3238	.20792	.19933	13.407	.20372	.25746
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	.20303	.21144	.21489	.21762
Stddev	.00118	.00038	.00116	.00175
%RSD	.57876	.17982	.53813	.80455
#1	.20386	.21171	.21571	.21886
#2	.20220	.21118	.21407	.21638
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4045.9	7185.3	65354.	10408.
Stddev	.2	5.4	149.	67.
%RSD	.00586	.07468	.22781	.64105
#1	4045.7	7189.1	65248.	10361.
#2	4046.0	7181.5	65459.	10456.

Sample Name: 480-30298-A-4-A@5 Acquired: 12/19/2012 18:19:51 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00030	.01905	-.00094	.04335	.06694	.00007	13.515	.08742	.00151
Stddev	.00058	.00062	.00198	.00030	.00017	.00001	.094	.00034	.00007
%RSD	193.60	3.2491	211.60	.68563	.24754	14.814	.69546	.39439	4.4375
#1	-.00071	.01861	.00046	.04314	.06682	.00006	13.448	.08718	.00155
#2	.00011	.01949	-.00234	.04356	.06706	.00007	13.581	.08767	.00146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49096	.00577	.01078	3.5630	3.7226	.00075	2.6738	.13244	.00184
Stddev	.00001	.00049	.00018	.0306	.0054	.00007	.0257	.00021	.00007
%RSD	.00122	8.5565	1.6794	.86006	.14612	9.0104	.96197	.16024	3.7757
#1	.49095	.00612	.01091	3.5413	3.7187	.00070	2.6556	.13229	.00189
#2	.49096	.00542	.01066	3.5847	3.7264	.00079	2.6920	.13259	.00179
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	31.451	5.0822	-.00002	2.021	.00022	.00087	1.6038	-.00047	.09628
Stddev	.037	.0048	.00136	.011	.00127	.00147	.0026	.00009	.00039
%RSD	.11886	.09501	6366.1	.5509	567.71	169.98	.16421	19.483	.40799
#1	31.425	5.0788	-.00098	2.013	-.00067	.00191	1.6020	-.00053	.09600
#2	31.478	5.0856	.00094	2.029	.00112	-.00017	1.6057	-.00040	.09656
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	.00001	-.00096	.00034	.00661
Stddev	.00012	.00142	.00054	.00006
%RSD	1723.1	148.72	158.42	.87614
#1	-.00008	.00005	.00073	.00657
#2	.00009	-.00196	-.00004	.00666
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4145.7	7149.0	65069.	10452.
Stddev	3.9	3.7	29.	26.
%RSD	.09463	.05221	.04415	.25251
#1	4148.5	7151.6	65089.	10471.
#2	4142.9	7146.3	65049.	10434.

Sample Name: MB 480-96161/1-A Acquired: 12/19/2012 18:22:02 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00062**	**.00452**	**-.00285**	**.00020**	**.00049**	**-.00001**	**.04290**	**.00001**	**.00003**
Stddev	.00064	.01679	.00006	.00028	.00001	.00005	.00252	.00002	.00008
%RSD	103.91	371.27	1.9275	140.97	2.0529	665.87	5.8798	177.01	258.91
#1	-.00107	.01640	-.00289	.00040	.00048	-.00004	.04468	.00003	-.00003
#2	-.00016	-.00735	-.00282	.00000	.00050	.00003	.04111	.00000	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**.00071**	**.03907**	**.02024**	**.02278**	**-.00119**	**.00663**	**.00040**	**.00021**
Stddev	.00036	.00005	.00213	.02022	.00101	.00181	.00554	.00008	.00010
%RSD	66.227	7.5062	5.4441	99.870	4.4386	152.05	83.586	20.412	45.828
#1	.00029	.00068	.04058	.00595	.02207	.00009	.01055	.00046	.00014
#2	.00081	.00075	.03757	.03454	.02350	-.00247	.00271	.00034	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01259**	**.00083**	**-.00106**	F **.0137**	**.00142**	**.00019**	**.35958**	F **.02681**	**-.00015**
Stddev	.01557	.00052	.00056	.0014	.00027	.00256	.01116	.00005	.00009
%RSD	123.61	63.020	52.691	10.26	18.832	1321.1	3.1040	.19344	60.416
#1	.02360	.00120	-.00066	.0147	.00161	.00201	.36747	.02678	-.00008
#2	.00159	.00046	-.00145	.0127	.00123	-.00162	.35169	.02685	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.0030				.01000	
Low Limit				-.0040				-.01000	

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00035**	**.00023**	**-.00009**	**.00194**
Stddev	.00015	.00222	.00002	.00014
%RSD	43.993	976.75	17.626	7.3093
#1	.00045	.00179	-.00010	.00204
#2	.00024	-.00134	-.00008	.00184
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4328.4**	**7259.1**	**66318.**	**10389.**
Stddev	10.1	15.3	104.	32.
%RSD	.23342	.21044	.15628	.31221
#1	4321.3	7248.3	66391.	10366.
#2	4335.6	7269.9	66245.	10412.

Sample Name: LCSSRM 480-96161/2-A Acquired: 12/19/2012 18:24:17 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.32612	63.537	.91876	1.0636	1.5235	.51823	58.292	.59616	1.0495
Stddev	.00123	.240	.00015	.0004	.0024	.00117	.125	.00153	.0029
%RSD	.37616	.37839	.01640	.04228	.15942	.22515	.21412	.25729	.27209
#1	.32699	63.367	.91866	1.0633	1.5217	.51741	58.204	.59725	1.0516
#2	.32525	63.707	.91887	1.0639	1.5252	.51906	58.380	.59508	1.0475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.65794	.77135	96.584	34.743	34.049	.06553	26.557	2.5811	.43534
Stddev	.00200	.00459	.104	.008	.239	.00013	.086	.0071	.00018
%RSD	.30460	.59487	.10720	.02218	.70113	.19133	.32241	.27484	.04069
#1	.65936	.77460	96.510	34.738	34.217	.06545	26.617	2.5861	.43546
#2	.65652	.76811	96.657	34.749	33.880	.06562	26.496	2.5761	.43521
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.1462	.58786	.92029	2.208	.76830	1.5521	13.202	1.0310	.62389
Stddev	.0179	.00123	.00229	.006	.00086	.0043	.015	.0063	.00139
%RSD	.29057	.21003	.24915	.2606	.11135	.27969	.11038	.61148	.22218
#1	6.1336	.58874	.92191	2.212	.76891	1.5551	13.213	1.0355	.62291
#2	6.1588	.58699	.91867	2.204	.76770	1.5490	13.192	1.0265	.62487
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	None
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	2.1986	1.2226	.51442	1.3314
Stddev	.0031	.0046	.00267	.0035
%RSD	.13922	.38016	.51941	.26064
#1	2.2008	1.2259	.51631	1.3339
#2	2.1964	1.2194	.51253	1.3290
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3831.1	7221.2	66094.	10773.
Stddev	18.2	27.6	21.	32.
%RSD	.47431	.38207	.03187	.29489
#1	3818.2	7201.7	66079.	10795.
#2	3843.9	7240.8	66108.	10751.

Sample Name: LCDSRM 480-96161/3-A Acquired: 12/19/2012 18:26:28 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.29267	58.467	.85051	1.0079	1.3956	.48643	53.910	.56097	.98258
Stddev	.00327	.670	.00068	.0011	.0211	.00643	.721	.00088	.00031
%RSD	1.1157	1.1462	.07970	.11188	1.5137	1.3218	1.3365	.15739	.03170
#1	.29498	58.941	.85003	1.0087	1.4106	.49098	54.419	.56160	.98280
#2	.29036	57.993	.85099	1.0071	1.3807	.48189	53.400	.56035	.98236
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.60894	.73258	89.504	32.306	30.998	.05916	24.880	2.5788	.41876
Stddev	.00006	.00177	1.119	.440	.278	.00285	.163	.0145	.00174
%RSD	.00903	.24158	1.2505	1.3628	.89736	4.8217	.65360	.56293	.41485
#1	.60890	.73384	90.295	32.617	31.195	.06118	24.995	2.5891	.41998
#2	.60898	.73133	88.712	31.994	30.802	.05714	24.765	2.5685	.41753
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.8666	.55407	.86068	2.059	.73981	1.4607	13.804	.94645	.58799
Stddev	.0868	.00048	.00427	.007	.00521	.0023	.156	.00068	.00965
%RSD	1.4788	.08628	.49585	.3521	.70418	.15793	1.1300	.07169	1.6416
#1	5.9279	.55441	.86370	2.064	.74349	1.4624	13.914	.94693	.59482
#2	5.8052	.55373	.85766	2.054	.73613	1.4591	13.694	.94597	.58117
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	None
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	2.0593	1.1425	.48433	1.2474
Stddev	.0030	.0017	.00275	.0046
%RSD	.14683	.15228	.56805	.36499
#1	2.0614	1.1412	.48627	1.2506
#2	2.0572	1.1437	.48238	1.2441
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3872.8	7272.9	66099.	10693.
Stddev	4.7	7.7	105.	97.
%RSD	.12152	.10523	.15852	.91149
#1	3869.5	7267.4	66025.	10624.
#2	3876.1	7278.3	66173.	10762.

Sample Name: 480-30158-A-1-H Acquired: 12/19/2012 18:28:41 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00120**	**31.542**	**.02952**	**.01831**	**.27852**	**.00044**	**47.246**	**.00100**	**.02771**
Stddev	.00043	.328	.00365	.00038	.00085	.00007	.380	.00013	.00005
%RSD	36.291	1.0392	12.376	2.0525	.30602	15.611	.80500	13.396	.17859
#1	-.00150	31.774	.03210	.01858	.27912	.00049	47.515	.00091	.02767
#2	-.00089	31.311	.02693	.01805	.27792	.00039	46.977	.00110	.02774
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07515**	**.15105**	**54.466**	**4.2885**	**4.1298**	**.04778**	**15.953**	**2.3590**	**.00601**
Stddev	.00007	.00007	.479	.0081	.0109	.00148	.065	.0126	.00005
%RSD	.08711	.04925	.87974	.18831	.26499	3.0954	.40626	.53503	.78542
#1	.07520	.15100	54.804	4.2943	4.1375	.04883	15.999	2.3679	.00597
#2	.07511	.15110	54.127	4.2828	4.1221	.04673	15.908	2.3500	.00604
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.56553**	**.04776**	**.19069**	**2.913**	**.00214**	**.00295**	**12.269**	**.02312**	**.15031**
Stddev	.00840	.00079	.00061	.000	.00190	.00172	.039	.00004	.00128
%RSD	1.4849	1.6568	.32044	.0061	89.038	58.366	.31914	.18808	.85263
#1	.57146	.04720	.19026	2.913	.00079	.00173	12.296	.02315	.15122
#2	.55959	.04832	.19112	2.913	.00348	.00416	12.241	.02309	.14941
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**2.2641**	**-.00146**	**.10430**	**.67261**
Stddev	.0022	.00034	.00145	.00324
%RSD	.09948	23.365	1.3874	.48115
#1	2.2625	-.00170	.10328	.67033
#2	2.2657	-.00122	.10533	.67490
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4006.1**	**7220.4**	**66442.**	**10707.**
Stddev	4.8	11.4	86.	39.
%RSD	.12035	.15731	.12938	.36871
#1	4009.5	7228.4	66381.	10679.
#2	4002.7	7212.4	66502.	10734.

Sample Name: 480-30158-A-2-F Acquired: 12/19/2012 18:30:53 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**70.334**	**.09464**	**.02255**	**.44747**	**.00084**	**49.927**	**.00174**	**.04518**
Stddev	.00086	.268	.00048	.00077	.00089	.00002	.225	.00011	.00042
%RSD	460.77	.38085	.50215	3.4349	.19942	2.1875	.44998	6.1196	.92057
#1	-.00079	70.145	.09498	.02309	.44684	.00086	49.768	.00182	.04548
#2	.00042	70.523	.09431	.02200	.44810	.00083	50.086	.00167	.04489
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21327**	**.42158**	**98.724**	**7.3857**	**7.6367**	**.12507**	**27.646**	**3.0422**	**.00892**
Stddev	.00017	.00117	.389	.0271	.0244	.00036	.015	.0044	.00014
%RSD	.08027	.27737	.39409	.36660	.31988	.28787	.05565	.14576	1.5330
#1	.21339	.42240	98.449	7.3665	7.6540	.12533	27.657	3.0453	.00902
#2	.21315	.42075	98.999	7.4048	7.6195	.12482	27.635	3.0391	.00883
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.89089**	**.11166**	**.57405**	**5.815**	**.00102**	**.00609**	**12.361**	**.03510**	**.23004**
Stddev	.00810	.00135	.00513	.009	.00182	.00216	.001	.00008	.00053
%RSD	.90879	1.2052	.89290	.1582	179.12	35.473	.00594	.22637	.23043
#1	.88517	.11261	.57767	5.821	.00230	.00456	12.360	.03515	.22966
#2	.89662	.11070	.57042	5.808	-.00027	.00762	12.361	.03504	.23041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**4.3827**	**-.00342**	**.18202**	**.83240**
Stddev	.0066	.00024	.00035	.00174
%RSD	.14989	7.0689	.19458	.20868
#1	4.3781	-.00359	.18227	.83363
#2	4.3874	-.00325	.18177	.83117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3899.5**	**7160.2**	**65202.**	**10631.**
Stddev	9.3	17.2	168.	63.
%RSD	.23802	.24028	.25709	.59053
#1	3893.0	7148.0	65321.	10675.
#2	3906.1	7172.3	65084.	10586.

Sample Name: 480-30158-A-3-F Acquired: 12/19/2012 18:33:14 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00008	40.562	.05231	.01197	.31858	.00050	31.794	.00098	.02426
Stddev	.00053	.354	.00492	.00045	.00072	.00003	.298	.00012	.00173
%RSD	701.74	.87302	9.4056	3.7705	.22470	6.5373	.93691	12.069	7.1298
#1	-.00030	40.312	.05579	.01229	.31807	.00048	31.584	.00106	.02549
#2	.00045	40.813	.04883	.01165	.31908	.00052	32.005	.00089	.02304
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.13688	.54137	61.989	7.0675	6.8519	.06572	15.679	1.9997	.00472
Stddev	.00062	.00113	.446	.0938	.0390	.00080	.032	.0041	.00037
%RSD	.45466	.20888	.71952	1.3276	.56924	1.2112	.20452	.20728	7.9362
#1	.13732	.54057	61.674	7.0012	6.8243	.06629	15.657	1.9968	.00498
#2	.13644	.54217	62.304	7.1339	6.8794	.06516	15.702	2.0026	.00445
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.93789	.05983	.30141	3.126	.00161	.00389	12.407	.02374	.13355
Stddev	.01980	.00441	.01572	.196	.00053	.00044	.131	.00059	.00172
%RSD	2.1109	7.3630	5.2140	6.266	32.933	11.262	1.0590	2.4816	1.2855
#1	.92389	.06295	.31252	3.265	.00124	.00358	12.314	.02416	.13233
#2	.95189	.05672	.29029	2.988	.00199	.00420	12.500	.02332	.13476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	2.3135	-.00332	.10874	.47149
Stddev	.0142	.00032	.00030	.00266
%RSD	.61317	9.7684	.27545	.56409
#1	2.3035	-.00309	.10895	.46961
#2	2.3235	-.00354	.10853	.47337
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4344.7	7719.6	65532.	10479.
Stddev	207.3	356.8	234.	21.
%RSD	4.7705	4.6215	.35729	.19589
#1	4198.2	7467.4	65697.	10494.
#2	4491.3	7971.9	65366.	10465.

Sample Name: 480-30158-A-3-F SD@5 Acquired: 12/19/2012 18:35:24 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	**9.2636**	**.01068**	**.00260**	**.06692**	**.00014**	**7.0949**	**.00019**	**.00530**
Stddev	.00052	.1743	.00019	.00036	.00014	.00003	.0830	.00009	.00010
%RSD	96.512	1.8819	1.7883	13.987	.21150	18.772	1.1699	44.466	1.9663
#1	-.00017	9.3869	.01054	.00286	.06702	.00012	7.1536	.00025	.00538
#2	-.00091	9.1404	.01081	.00235	.06682	.00015	7.0362	.00013	.00523
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02839**	**.11143**	**13.991**	**1.6125**	**1.2949**	**.01379**	**3.3227**	**.41636**	**.00103**
Stddev	.00004	.00042	.184	.0239	.0019	.00147	.0305	.00198	.00020
%RSD	.15578	.37584	1.3116	1.4831	.14833	10.678	.91840	.47471	19.728
#1	.02843	.11113	14.121	1.6294	1.2963	.01275	3.3443	.41775	.00117
#2	.02836	.11173	13.861	1.5955	1.2936	.01483	3.3011	.41496	.00088
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21947**	**.01258**	**.06590**	**.6895**	**.00096**	**-.00166**	**3.7039**	**.00561**	**.02959**
Stddev	.00426	.00025	.00028	.0041	.00074	.00115	.1336	.00023	.00010
%RSD	1.9394	2.0074	.41893	.5967	76.259	69.335	3.6067	4.1020	.32674
#1	.22248	.01276	.06610	.6866	.00044	-.00247	3.7983	.00545	.02966
#2	.21646	.01241	.06571	.6924	.00148	-.00084	3.6094	.00578	.02952
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.50792**	**-.00073**	**.02265**	**.10068**
Stddev	.00200	.00180	.00049	.00041
%RSD	.39297	246.47	2.1479	.40852
#1	.50933	.00054	.02300	.10097
#2	.50651	-.00201	.02231	.10039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4281.9**	**7312.0**	**65542.**	**10041.**
Stddev	4.6	6.2	77.	80.
%RSD	.10802	.08480	.11685	.79687
#1	4278.6	7307.6	65596.	9984.7
#2	4285.2	7316.3	65487.	10098.

Sample Name: 480-30158-A-3-F PDS Acquired: 12/19/2012 18:37:37 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.09570	58.564	.44975	.40378	.67680	.39640	48.692	.39408	.44173
Stddev	.00089	.384	.00083	.00028	.00373	.00277	.255	.00080	.00095
%RSD	.92927	.65537	.18411	.06885	.55080	.69879	.52469	.20312	.21503
#1	.09507	58.293	.45034	.40358	.67416	.39445	48.511	.39465	.44240
#2	.09633	58.836	.44917	.40398	.67943	.39836	48.872	.39352	.44106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.52930	.91645	76.194	26.314	27.415	.45171	34.069	2.2682	.41356
Stddev	.00155	.00118	.696	.167	.258	.00149	.073	.0037	.00110
%RSD	.29334	.12864	.91323	.63402	.94261	.32920	.21384	.16315	.26564
#1	.52820	.91728	75.702	26.196	27.232	.45066	34.017	2.2656	.41433
#2	.53040	.91562	76.686	26.432	27.598	.45276	34.120	2.2708	.41278
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.334	.47014	.71944	3.296	.39489	.38968	36.353	.42503	.51391
Stddev	.104	.00076	.00075	.004	.00202	.00571	.169	.00084	.00348
%RSD	.50966	.16221	.10456	.1184	.51057	1.4651	.46519	.19797	.67757
#1	20.261	.47068	.71997	3.299	.39347	.39371	36.233	.42562	.51145
#2	20.407	.46960	.71890	3.293	.39632	.38564	36.472	.42443	.51637
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	2.7120	.39851	.51135	.84736
Stddev	.0074	.00038	.00051	.00226
%RSD	.27275	.09568	.09879	.26701
#1	2.7172	.39878	.51171	.84576
#2	2.7068	.39824	.51100	.84896
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3852.3	7074.6	64431.	10525.
Stddev	3.2	2.2	153.	59.
%RSD	.08317	.03176	.23753	.55695
#1	3850.0	7073.1	64539.	10567.
#2	3854.6	7076.2	64323.	10484.

Sample Name: CCV Acquired: 12/19/2012 18:39:53 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50168	24.242	.49799	.49663	.48960	.48821	24.616	.50236	.49846	.50702	.50308	23.659	24.714
Stddev	.00115	.132	.00083	.00045	.00270	.00170	.125	.00084	.00082	.00101	.00090	.061	.156
%RSD	.22876	.54297	.16757	.09010	.55173	.34742	.50972	.16703	.16507	.19992	.17940	.25597	.63018
#1	.50250	24.335	.49739	.49694	.49151	.48940	24.704	.50296	.49904	.50630	.50244	23.702	24.824
#2	.50087	24.148	.49858	.49631	.48769	.48701	24.527	.50177	.49788	.50774	.50372	23.616	24.604
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.174	.48656	24.341	.50408	.50758	24.545	.49997	.50526	24.49	.50327	.49346	24.419	.52109
Stddev	.045	.00031	.100	.00061	.00146	.130	.00006	.00176	.01	.00328	.00337	.034	.00184
%RSD	.17691	.06377	.41241	.12197	.28752	.52967	.01202	.34875	.0404	.65249	.68315	.14007	.35246
#1	25.206	.48678	24.270	.50364	.50862	24.636	.50001	.50401	24.50	.50095	.49107	24.443	.52239
#2	25.143	.48634	24.412	.50451	.50655	24.453	.49993	.50651	24.49	.50559	.49584	24.394	.51979
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	.49109	.50605	.50473	.50529	.51847
Stddev	.00266	.00102	.00179	.00134	.00184
%RSD	.54155	.20217	.35479	.26506	.35446
#1	.49297	.50678	.50347	.50435	.51717
#2	.48921	.50533	.50600	.50624	.51977
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3996.8	7124.2	64586.	10290.
Stddev	1.7	1.0	10.	31.
%RSD	.04370	.01455	.01563	.30219
#1	3998.1	7125.0	64593.	10268.
#2	3995.6	7123.5	64579.	10312.

Sample Name: CCB Acquired: 12/19/2012 18:42:04 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00127**	**.01001**	**-.00143**	**.00036**	**.00005**	**.00013**	**.00600**	**.00010**	**-.00016**	**-.00056**	**.00102**	**.00566**	**.05254**
Stddev	.00039	.01013	.00232	.00024	.00001	.00004	.00149	.00005	.00000	.00037	.00029	.00113	.01807
%RSD	30.910	101.16	162.45	67.204	13.796	33.070	24.802	50.261	.06554	65.745	28.053	20.026	34.397
#1	-.00155	.00285	.00021	.00053	.00005	.00016	.00705	.00006	-.00016	-.00030	.00122	.00646	.03976
#2	-.00099	.01718	-.00307	.00019	.00004	.00010	.00495	.00014	-.00016	-.00082	.00082	.00486	.06532
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00501**	**.00067**	**.00445**	**.00014**	**.00002**	**.01942**	**-.00026**	**.00016**	**-.0026**	**.00062**	**-.00176**	**.00364**	**-.00021**
Stddev	.00018	.00105	.00537	.00001	.00032	.00094	.00018	.00000	.0048	.00008	.00056	.00027	.00032
%RSD	3.5614	155.69	120.53	10.978	1988.9	4.8462	70.174	.57501	188.2	12.589	31.844	7.4165	151.82
#1	.00513	-.00007	.00825	.00013	.00024	.01876	-.00039	.00016	.0009	.00068	-.00216	.00345	-.00043
#2	.00488	.00142	.00066	.00015	-.00021	.02009	-.00013	.00016	-.0060	.00057	-.00136	.00383	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**-.00012**	**-.00028**	**-.00003**	**.00035**
Stddev	.00004	.00045	.00202	.00030	.00083
%RSD	72.536	380.72	732.55	995.88	241.01
#1	.00003	.00020	.00115	-.00024	-.00024
#2	.00009	-.00043	-.00171	.00018	.00094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4315.7**	**7225.1**	**66103.**	**10309.**
Stddev	1.5	6.2	296.	66.
%RSD	.03553	.08641	.44789	.64128
#1	4316.8	7220.7	65893.	10356.
#2	4314.7	7229.6	66312.	10263.

Sample Name: 480-30158-A-3-G MS Acquired: 12/19/2012 18:44:20 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.09470	84.754	.45693	.39774	.73394	.38383	51.380	.38742	.45785
Stddev	.00108	.144	.00238	.00089	.00046	.00031	.073	.00042	.00025
%RSD	1.1358	.17033	.52024	.22298	.06212	.08128	.14231	.10767	.05470
#1	.09546	84.652	.45861	.39711	.73362	.38405	51.328	.38713	.45803
#2	.09394	84.856	.45525	.39837	.73426	.38361	51.432	.38772	.45768
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.59610	.90698	137.69	28.752	29.828	.47862	45.364	2.8585	.40226
Stddev	.00020	.00009	.19	.017	.087	.00053	.025	.0024	.00001
%RSD	.03391	.00965	.14073	.05846	.29193	.11160	.05492	.08417	.00349
#1	.59596	.90692	137.55	28.740	29.767	.47900	45.382	2.8568	.40225
#2	.59625	.90704	137.83	28.764	29.890	.47824	45.346	2.8602	.40227
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.104	.52118	2.2929	3.615	.36042	.37601	28.343	1.0867	.52898
Stddev	.027	.00050	.0062	.009	.00089	.00087	.056	.0018	.00044
%RSD	.13227	.09537	.26925	.2474	.24617	.23167	.19681	.16830	.08242
#1	20.086	.52153	2.2885	3.608	.35980	.37662	28.382	1.0854	.52867
#2	20.123	.52083	2.2972	3.621	.36105	.37539	28.303	1.0880	.52928
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	4.7973	.39029	.56394	1.1221
Stddev	.0043	.00578	.00051	.0027
%RSD	.08948	1.4798	.09124	.23820
#1	4.8003	.39438	.56358	1.1202
#2	4.7942	.38621	.56431	1.1240
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3744.4	7015.0	64205.	10473.
Stddev	5.8	10.6	251.	12.
%RSD	.15517	.15100	.39148	.11925
#1	3748.6	7022.5	64028.	10464.
#2	3740.3	7007.5	64383.	10482.

Sample Name: 480-30158-A-3-H MSD Acquired: 12/19/2012 18:46:29 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.08965	75.575	.43287	.38741	.68254	.38389	50.462	.38117	.43764
Stddev	.00305	.409	.00210	.00110	.00419	.00213	.278	.00004	.00015
%RSD	3.4050	.54152	.48438	.28277	.61322	.55514	.55050	.01175	.03416
#1	.09180	75.286	.43435	.38819	.67958	.38239	50.266	.38120	.43774
#2	.08749	75.865	.43138	.38664	.68550	.38540	50.659	.38114	.43753
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.52434	.78009	104.74	26.797	27.308	.46361	41.394	2.4436	.39617
Stddev	.01747	.02954	.81	.148	.205	.00288	1.434	.0860	.00087
%RSD	3.3324	3.7868	.77564	.55355	.74951	.62128	3.4653	3.5192	.21918
#1	.53670	.80098	104.16	26.692	27.163	.46158	42.408	2.5044	.39678
#2	.51199	.75920	105.31	26.902	27.453	.46565	40.380	2.3828	.39555
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.603	.48165	.71708	3.241	.35210	.37156	28.434	.41795	.51407
Stddev	.077	.00016	.00087	.006	.00153	.00142	.083	.00244	.00265
%RSD	.39342	.03424	.12157	.1929	.43454	.38207	.29238	.58321	.51561
#1	19.548	.48153	.71770	3.245	.35318	.37056	28.375	.41968	.51219
#2	19.657	.48177	.71647	3.237	.35102	.37257	28.492	.41623	.51594
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	4.6988	.38502	.52075	.91401
Stddev	.1844	.00166	.02060	.03678
%RSD	3.9242	.43178	3.9562	4.0237
#1	4.8292	.38619	.53532	.94001
#2	4.5684	.38384	.50618	.88800
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3764.0	7015.3	65649.	10489.
Stddev	.4	8.6	2056.	53.
%RSD	.01025	.12297	3.1324	.50108
#1	3763.7	7009.2	64194.	10526.
#2	3764.3	7021.4	67103.	10452.

Sample Name: 480-30158-A-4-F Acquired: 12/19/2012 18:48:38 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00122**	**60.518**	**.08176**	**.00703**	**.37162**	**.00013**	**27.759**	**.00198**	**.04654**
Stddev	.00032	1.083	.00573	.00049	.00465	.00009	.472	.00016	.00352
%RSD	25.850	1.7900	7.0113	6.9363	1.2520	67.216	1.6989	7.9380	7.5622
#1	-.00145	61.284	.07770	.00669	.37491	.00019	28.092	.00187	.04405
#2	-.00100	59.752	.08581	.00738	.36833	.00007	27.425	.00209	.04903
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19238**	**.27268**	**95.817**	**8.4739**	**8.2282**	**.09331**	**29.399**	**1.6020**	**.00642**
Stddev	.00160	.00202	1.321	.1206	.0844	.00273	.290	.0168	.00082
%RSD	.82941	.74103	1.3790	1.4235	1.0262	2.9267	.98557	1.0458	12.698
#1	.19351	.27411	96.752	8.5592	8.2879	.09524	29.604	1.6139	.00584
#2	.19125	.27125	94.883	8.3886	8.1685	.09138	29.194	1.5902	.00700
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.1087**	**.10062**	**.84069**	**3.405**	**.00134**	**-.00004**	**12.079**	**.03217**	**.10594**
Stddev	.0223	.00551	.04975	.192	.00110	.00163	.187	.00039	.00183
%RSD	2.0078	5.4756	5.9183	5.650	81.827	3813.7	1.5514	1.2043	1.7244
#1	1.1245	.09672	.80550	3.269	.00212	.00111	12.211	.03190	.10723
#2	1.0930	.10452	.87587	3.541	.00057	-.00120	11.946	.03245	.10465
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**4.9627**	**-.00261**	**.17098**	**1.0620**
Stddev	.0345	.00035	.00224	.0072
%RSD	.69433	13.526	1.3117	.67641
#1	4.9871	-.00286	.17257	1.0671
#2	4.9384	-.00236	.16940	1.0569
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4180.4**	**7634.6**	**68365.**	**10832.**
Stddev	193.7	346.2	265.	133.
%RSD	4.6331	4.5339	.38730	1.2273
#1	4317.4	7879.4	68177.	10738.
#2	4043.5	7389.9	68552.	10926.

Sample Name: 480-30158-A-5-F Acquired: 12/19/2012 18:50:47 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00162**	**43.719**	**.08792**	**.00401**	**.27463**	**.00126**	**21.118**	**.00235**	**.01556**
Stddev	.00013	.643	.00297	.00039	.00203	.00009	.254	.00010	.00061
%RSD	8.1448	1.4698	3.3835	9.8418	.73968	7.3269	1.2022	4.4413	3.8998
#1	-.00152	44.173	.09002	.00373	.27606	.00133	21.298	.00242	.01598
#2	-.00171	43.264	.08582	.00429	.27319	.00120	20.938	.00228	.01513
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09486**	**.20536**	**47.981**	**2.6555**	**2.4170**	**.05564**	**10.340**	**.57083**	**.00333**
Stddev	.00080	.00165	.718	.0104	.0290	.00164	.110	.00338	.00010
%RSD	.84009	.80567	1.4956	.39004	1.2019	2.9388	1.0612	.59126	3.0376
#1	.09543	.20653	48.488	2.6628	2.4376	.05680	10.418	.57321	.00341
#2	.09430	.20419	47.473	2.6481	2.3965	.05448	10.263	.56844	.00326
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.1577**	**.04963**	**.91691**	**3.379**	**.00136**	**.00529**	**12.047**	**.03278**	**.09170**
Stddev	.0151	.00087	.02753	.086	.00024	.00127	.171	.00044	.00090
%RSD	1.3058	1.7452	3.0021	2.535	17.481	24.013	1.4196	1.3362	.98008
#1	1.1684	.05024	.93637	3.439	.00119	.00439	12.168	.03309	.09233
#2	1.1470	.04902	.89744	3.318	.00153	.00619	11.926	.03247	.09106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**2.0468**	**-.00427**	**.12702**	**.69586**
Stddev	.0228	.00192	.00133	.00757
%RSD	1.1163	44.934	1.0481	1.0880
#1	2.0629	-.00562	.12796	.70122
#2	2.0306	-.00291	.12607	.69051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4220.1**	**7533.7**	**64769.**	**10165.**
Stddev	103.0	179.8	493.	86.
%RSD	2.4406	2.3867	.76164	.84375
#1	4147.3	7406.5	64420.	10104.
#2	4292.9	7660.8	65117.	10226.

Sample Name: 480-30158-A-6-F Acquired: 12/19/2012 18:52:52 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00110**	**70.365**	**.10553**	**.00689**	**.37255**	**.00064**	**36.960**	**.00212**	**.03793**
Stddev	.00059	.809	.00896	.00079	.00551	.00012	.444	.00060	.00423
%RSD	53.579	1.1491	8.4895	11.516	1.4790	18.388	1.2005	28.448	11.150
#1	-.00069	70.937	.11186	.00745	.37644	.00073	37.274	.00255	.04092
#2	-.00152	69.794	.09919	.00633	.36865	.00056	36.647	.00169	.03494
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13097**	**.37546**	**94.543**	**6.2440**	**6.3026**	**.10503**	**22.785**	**1.4012**	**.00338**
Stddev	.00193	.00523	1.171	.0606	.0782	.00062	.370	.0239	.00035
%RSD	1.4709	1.3928	1.2389	.97110	1.2407	.58815	1.6231	1.7055	10.243
#1	.13234	.37915	95.371	6.2868	6.3579	.10546	23.047	1.4181	.00362
#2	.12961	.37176	93.715	6.2011	6.2473	.10459	22.524	1.3843	.00313
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.78953**	**.08752**	**.75916**	**2.157**	**.00053**	**.00126**	**11.086**	**.04837**	**.10263**
Stddev	.01289	.00886	.07655	.191	.00056	.00112	.152	.00342	.00158
%RSD	1.6328	10.129	10.083	8.867	105.91	88.924	1.3673	7.0763	1.5420
#1	.79864	.09378	.81329	2.292	.00013	.00047	11.193	.05079	.10375
#2	.78041	.08125	.70503	2.022	.00092	.00205	10.978	.04595	.10151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**4.9364**	**-.00336**	**.17576**	**1.2799**
Stddev	.0805	.00115	.00302	.0207
%RSD	1.6317	34.348	1.7177	1.6194
#1	4.9933	-.00254	.17789	1.2945
#2	4.8794	-.00417	.17363	1.2652
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4144.9**	**7704.5**	**65867.**	**10398.**
Stddev	320.4	537.8	708.	92.
%RSD	7.7309	6.9803	1.0747	.88835
#1	3918.3	7324.3	65367.	10333.
#2	4371.5	8084.8	66368.	10464.

Sample Name: 480-30328-B-1-B Acquired: 12/19/2012 18:54:56 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00020	40.599	.05548	.01043	1.0200	.00167	45.622	.00812	.05053
Stddev	.00042	.634	.00157	.00028	.0176	.00009	.777	.00025	.00020
%RSD	209.73	1.5624	2.8264	2.6453	1.7230	5.2000	1.7026	3.0875	.38741
#1	.00050	41.047	.05437	.01062	1.0324	.00173	46.172	.00794	.05039
#2	-.00010	40.150	.05659	.01023	1.0076	.00161	45.073	.00829	.05067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.08407	1.0535	106.37	4.3266	4.1048	.06863	13.327	4.0101	.00620
Stddev	.00144	.0155	2.00	.0419	.0774	.00240	.176	.0344	.00038
%RSD	1.7126	1.4736	1.8846	.96910	1.8851	3.5011	1.3205	.85753	6.1809
#1	.08509	1.0645	107.79	4.3563	4.1595	.07033	13.452	4.0344	.00647
#2	.08306	1.0426	104.95	4.2970	4.0501	.06693	13.203	3.9857	.00593
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.90664	.11177	4.1582	1.130	.00547	.00511	9.2957	.27690	.18589
Stddev	.01365	.00078	.0059	.002	.00012	.00368	.1324	.00000	.00304
%RSD	1.5057	.69697	.14172	.1599	2.2750	72.084	1.4245	.00051	1.6349
#1	.91629	.11232	4.1624	1.128	.00538	.00771	9.3893	.27690	.18804
#2	.89699	.11122	4.1541	1.131	.00556	.00251	9.2021	.27690	.18375
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	2.2513	-.00299	.15994	4.0398
Stddev	.0424	.00005	.00187	.0605
%RSD	1.8848	1.5688	1.1716	1.4970
#1	2.2813	-.00296	.16126	4.0826
#2	2.2213	-.00302	.15861	3.9971
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3944.8	7155.6	64598.	9865.2
Stddev	6.5	13.6	839.	161.5
%RSD	.16390	.19036	1.2988	1.6375
#1	3940.2	7146.0	64004.	9751.0
#2	3949.4	7165.3	65191.	9979.4

Sample Name: 480-30328-C-2-B Acquired: 12/19/2012 18:57:04 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00063**	**113.95**	**.05433**	**.02345**	**.62393**	**-.00114**	**27.548**	**-.00042**	**.12393**
Stddev	.00029	.60	.00123	.00062	.00557	.00009	.172	.00006	.00042
%RSD	45.612	.52461	2.2607	2.6610	.89233	8.0261	.62457	14.244	.33908
#1	-.00043	113.53	.05520	.02301	.61999	-.00120	27.426	-.00038	.12422
#2	-.00083	114.37	.05346	.02389	.62787	-.00107	27.669	-.00046	.12363
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.31908**	**.68564**	**207.68**	**6.7041**	**7.1629**	**.24754**	**52.703**	**2.0006**	**.00750**
Stddev	.00053	.00065	.14	.0079	.0024	.00096	.305	.0064	.00000
%RSD	.16604	.09453	.06765	.11843	.03332	.38852	.57811	.32157	.05063
#1	.31945	.68610	207.58	6.6984	7.1646	.24686	52.919	2.0052	.00749
#2	.31870	.68519	207.78	6.7097	7.1613	.24822	52.488	1.9961	.00750
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.8008**	**.22441**	**8.5783**	F **16.63**	**.00373**	**.00616**	**11.747**	**1.6348**	**.28832**
Stddev	.0119	.00051	.0029	.02	.00144	.00098	.053	.0045	.00212
%RSD	.42391	.22738	.03345	.1209	38.597	15.970	.44873	.27683	.73394
#1	2.7924	.22478	8.5803	16.64	.00475	.00546	11.710	1.6380	.28682
#2	2.8092	.22405	8.5763	16.61	.00271	.00685	11.785	1.6316	.28982
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**10.942**	**-.00762**	**.35384**	**2.8127**
Stddev	.017	.00133	.00107	.0019
%RSD	.15348	17.494	.30191	.06796
#1	10.954	-.00667	.35308	2.8114
#2	10.930	-.00856	.35459	2.8141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3796.2**	**7237.3**	**65692.**	**10647.**
Stddev	.8	11.5	162.	5.
%RSD	.02089	.15895	.24732	.04990
#1	3796.8	7229.2	65577.	10651.
#2	3795.7	7245.4	65807.	10643.

Sample Name: 480-30328-C-3-B Acquired: 12/19/2012 18:59:18 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00197**	**58.933**	**.08610**	**.00978**	**.65728**	**.00187**	**31.881**	**.00644**	**.05380**
Stddev	.00020	.127	.00161	.00033	.00191	.00005	.105	.00015	.00011
%RSD	9.9520	.21486	1.8684	3.4051	.29057	2.4884	.32823	2.3498	.20026
#1	-.00183	59.023	.08496	.00954	.65863	.00184	31.955	.00654	.05387
#2	-.00211	58.843	.08724	.01001	.65593	.00190	31.807	.00633	.05372
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12038**	**.96934**	**170.43**	**6.5583**	**6.5681**	**.09918**	**24.476**	**2.8950**	**.00592**
Stddev	.00022	.00545	.22	.0464	.0512	.00033	.028	.0010	.00009
%RSD	.18473	.56243	.12631	.70707	.77876	.33208	.11237	.03491	1.5435
#1	.12053	.97319	170.59	6.5911	6.6043	.09895	24.496	2.8943	.00598
#2	.12022	.96548	170.28	6.5255	6.5319	.09941	24.457	2.8957	.00585
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.1653**	**.10604**	**2.5713**	**1.366**	**.00153**	**.01086**	**11.661**	**.15301**	**.16873**
Stddev	.0073	.00034	.0098	.007	.00096	.00162	.026	.00061	.00041
%RSD	.62827	.31918	.38313	.4829	62.537	14.921	.22509	.39698	.24170
#1	1.1704	.10628	2.5783	1.370	.00085	.01200	11.679	.15258	.16902
#2	1.1601	.10580	2.5644	1.361	.00221	.00971	11.642	.15344	.16844
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**3.5537**	**-.00342**	**.20139**	**1.3731**
Stddev	.0131	.00106	.00048	.0037
%RSD	.36744	30.896	.23712	.26876
#1	3.5630	-.00417	.20173	1.3705
#2	3.5445	-.00268	.20105	1.3757
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3889.9**	**7307.2**	**66807.**	**10659.**
Stddev	3.5	14.2	7.	62.
%RSD	.09106	.19470	.01086	.58521
#1	3887.4	7297.1	66802.	10614.
#2	3892.4	7317.3	66813.	10703.

Sample Name: 480-30328-B-4-B Acquired: 12/19/2012 19:01:33 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00092	52.563	.07397	.04575	1.3611	.00164	43.736	.00361	.04894
Stddev	.00049	.327	.00140	.00049	.0088	.00001	.268	.00001	.00014
%RSD	53.192	.62139	1.8890	1.0784	.64391	.41276	.61220	.16843	.28173
#1	.00127	52.332	.07495	.04540	1.3549	.00164	43.547	.00361	.04903
#2	.00058	52.794	.07298	.04610	1.3673	.00165	43.926	.00360	.04884
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.12402	.53232	166.72	8.7094	8.7615	.10739	18.617	1.3890	.02595
Stddev	.00046	.00066	1.21	.0445	.1500	.00114	.069	.0043	.00056
%RSD	.37297	.12331	.72716	.51083	1.7115	1.0646	.37262	.30802	2.1490
#1	.12369	.53185	165.86	8.6779	8.6554	.10658	18.568	1.3859	.02634
#2	.12435	.53278	167.57	8.7408	8.8675	.10820	18.666	1.3920	.02556
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.5008	.11008	4.4379	F 32.25	.00551	.01117	11.909	.27116	.52105
Stddev	.0227	.00007	.0059	.07	.00341	.00003	.021	.00092	.00439
%RSD	.90940	.06101	.13328	.2084	61.902	.25788	.17577	.33929	.84180
#1	2.4847	.11013	4.4420	32.30	.00310	.01119	11.894	.27051	.51795
#2	2.5169	.11003	4.4337	32.20	.00793	.01115	11.924	.27181	.52415
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	2.8175	-.00210	.18339	1.8251
Stddev	.0021	.00278	.00092	.0017
%RSD	.07592	132.79	.49912	.09047
#1	2.8160	-.00013	.18275	1.8262
#2	2.8190	-.00406	.18404	1.8239
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3895.4	7167.8	65490.	10409.
Stddev	1.0	17.7	9.	53.
%RSD	.02606	.24639	.01431	.51322
#1	3896.1	7155.3	65496.	10446.
#2	3894.6	7180.3	65483.	10371.

Sample Name: 480-30328-B-5-B Acquired: 12/19/2012 19:04:07 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**129.89**	**.06525**	**.06270**	**.46060**	**.00037**	**28.231**	**.00210**	**.11304**
Stddev	.00015	.53	.00098	.00019	.00304	.00005	.152	.00014	.00031
%RSD	110.86	.40549	1.4992	.30105	.65965	13.635	.53956	6.8762	.27235
#1	-.00003	130.26	.06456	.06284	.46275	.00033	28.338	.00220	.11325
#2	-.00025	129.51	.06594	.06257	.45845	.00040	28.123	.00199	.11282
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17718**	**.36821**	**209.14**	**8.7297**	**9.4399**	**.32841**	**49.978**	**2.4972**	**.01280**
Stddev	.00134	.00005	.47	.0706	.0676	.00214	.165	.0084	.00004
%RSD	.75560	.01254	.22552	.80923	.71570	.65257	.33103	.33686	.31321
#1	.17813	.36818	209.47	8.7796	9.4876	.32690	50.095	2.5031	.01283
#2	.17624	.36824	208.80	8.6797	9.3921	.32993	49.861	2.4912	.01278
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.1213**	**.16869**	**1.0120**	F **26.25**	**.00088**	**.00814**	**15.147**	**.10617**	**.24118**
Stddev	.0138	.00019	.0036	.00	.00059	.00249	.117	.00007	.00054
%RSD	.26926	.11242	.35546	.0083	66.854	30.567	.77148	.06753	.22252
#1	5.1310	.16882	1.0146	26.25	.00130	.00990	15.229	.10612	.24156
#2	5.1115	.16855	1.0095	26.24	.00046	.00638	15.064	.10622	.24080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**7.8285**	**-.00611**	**.38562**	**.80567**
Stddev	.0226	.00438	.00100	.00183
%RSD	.28804	71.706	.25974	.22695
#1	7.8445	-.00921	.38633	.80438
#2	7.8126	-.00301	.38491	.80696
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3782.6**	**7236.7**	**65807.**	**10679.**
Stddev	4.8	8.2	16.	85.
%RSD	.12675	.11328	.02501	.79276
#1	3779.2	7230.9	65795.	10619.
#2	3785.9	7242.5	65818.	10739.

Sample Name: CCV Acquired: 12/19/2012 19:06:43 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50304	24.225	.50230	.49696	.48958	.49133	24.727	.50405	.50051	.50688	.50297	23.818	24.820
Stddev	.00419	.138	.00143	.00040	.00266	.00032	.103	.00006	.00065	.00031	.00090	.032	.010
%RSD	.83388	.56970	.28421	.08082	.54275	.06469	.41577	.01272	.13079	.06059	.17981	.13247	.04203
#1	.50601	24.322	.50129	.49668	.49146	.49111	24.800	.50410	.50097	.50710	.50361	23.840	24.828
#2	.50008	24.127	.50331	.49725	.48770	.49156	24.654	.50401	.50005	.50667	.50233	23.795	24.813
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.341	.49002	24.438	.50566	.50891	24.739	.50019	.50583	24.47	.50740	.50000	24.463	.52347
Stddev	.703	.00074	.037	.00145	.00122	.030	.00040	.00118	.01	.00035	.00417	.026	.00097
%RSD	2.7728	.15040	.15097	.28732	.23901	.12297	.08021	.23255	.0235	.06861	.83327	.10641	.18615
#1	25.838	.48950	24.464	.50668	.50977	24.717	.50048	.50666	24.46	.50764	.49705	24.445	.52278
#2	24.844	.49054	24.412	.50463	.50805	24.760	.49991	.50500	24.47	.50715	.50295	24.482	.52416
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	.49420	.50825	.50652	.50735	.52057
Stddev	.00038	.00201	.00330	.00253	.00018
%RSD	.07767	.39609	.65128	.49794	.03436
#1	.49393	.50968	.50419	.50914	.52044
#2	.49447	.50683	.50885	.50556	.52070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3997.1	7128.5	64922.	10304.
Stddev	5.2	3.0	134.	16.
%RSD	.12914	.04200	.20691	.15871
#1	3993.5	7126.3	64827.	10292.
#2	4000.8	7130.6	65017.	10316.

Sample Name: CCB Acquired: 12/19/2012 19:09:03 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00110	.01538	-.00175	.00019	.00013	.00017	.00988	-.00008	.00002	-.00028	.00053	.01795	-.00129
Stddev	.00027	.00590	.00011	.00004	.00001	.00003	.00401	.00004	.00010	.00032	.00021	.00160	.00680
%RSD	24.728	38.351	6.0874	22.608	5.2481	15.181	40.609	51.069	652.58	114.75	40.139	8.8878	528.33
#1	-.00091	.01956	-.00167	.00016	.00013	.00015	.00704	-.00011	.00009	-.00051	.00068	.01682	-.00610
#2	-.00130	.01121	-.00182	.00022	.00012	.00019	.01271	-.00005	-.00006	-.00005	.00038	.01908	.00352
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00520	.00035	.00562	.00028	.00003	.01103	-.00036	.00095	.0015	-.00012	-.00073	-.00153	-.00055
Stddev	.00011	.00094	.00254	.00002	.00001	.00121	.00076	.00032	.0044	.00089	.00006	.00108	.00000
%RSD	2.0458	271.67	45.202	6.9631	46.312	10.992	210.56	33.943	289.7	725.84	8.0480	70.910	.81626
#1	.00528	-.00032	.00742	.00030	.00003	.01017	-.00090	.00072	.0047	.00050	-.00077	-.00076	-.00055
#2	.00513	.00101	.00382	.00027	.00002	.01188	.00018	.00118	-.0016	-.00075	-.00069	-.00229	-.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00006	.00021	-.00054	.00009	-.00018
Stddev	.00000	.00017	.00196	.00041	.00035
%RSD	6.5768	82.799	360.54	473.93	198.24
#1	.00006	.00033	.00084	.00037	.00007
#2	.00006	.00009	-.00193	-.00020	-.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4359.3	7304.2	66178.	10438.
Stddev	5.7	.2	202.	243.
%RSD	.13034	.00322	.30461	2.3278
#1	4355.2	7304.4	66321.	10609.
#2	4363.3	7304.0	66036.	10266.

Sample Name: 480-30328-B-6-B Acquired: 12/19/2012 19:11:26 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00127	53.701	.07286	.01916	1.1245	.00262	49.764	.00441	.04897
Stddev	.00036	.208	.00056	.00028	.0031	.00000	.067	.00011	.00000
%RSD	28.496	.38662	.76216	1.4677	.27262	.03158	.13537	2.4817	.00691
#1	.00152	53.555	.07325	.01936	1.1223	.00262	49.717	.00449	.04897
#2	.00101	53.848	.07247	.01896	1.1266	.00262	49.812	.00433	.04898
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.11160	.99844	115.57	6.2671	6.3598	.10073	26.309	3.1270	.01034
Stddev	.00018	.00582	.32	.0179	.0139	.00019	.144	.0108	.00014
%RSD	.15713	.58303	.27390	.28509	.21883	.18697	.54581	.34606	1.3740
#1	.11173	.99432	115.34	6.2544	6.3696	.10059	26.208	3.1193	.01044
#2	.11148	1.0026	115.79	6.2797	6.3499	.10086	26.411	3.1347	.01024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.2858	.12348	3.8799	4.055	.00569	.00569	8.8822	.16537	.30224
Stddev	.0113	.00026	.0005	.015	.00001	.00010	.0009	.00123	.00063
%RSD	.87870	.21438	.01175	.3798	.11118	1.8381	.00965	.74290	.20963
#1	1.2938	.12329	3.8796	4.044	.00569	.00576	8.8828	.16624	.30180
#2	1.2778	.12367	3.8802	4.066	.00570	.00562	8.8816	.16450	.30269
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	2.5733	-.00110	.22700	2.5851
Stddev	.0073	.00222	.00129	.0096
%RSD	.28497	202.63	.56927	.37263
#1	2.5681	.00047	.22608	2.5783
#2	2.5785	-.00267	.22791	2.5919
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3877.9	7168.1	64995.	10433.
Stddev	1.5	1.4	88.	14.
%RSD	.03792	.02016	.13604	.13179
#1	3878.9	7169.1	65057.	10423.
#2	3876.8	7167.0	64932.	10443.

Sample Name: 480-30328-B-7-B Acquired: 12/19/2012 19:13:38 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00048	51.279	.07345	.03431	1.4480	.00150	34.081	.00022	.05210
Stddev	.00003	.470	.00034	.00012	.0169	.00005	.311	.00027	.00036
%RSD	6.6223	.91608	.46565	.33558	1.1678	3.6659	.91281	125.11	.69094
#1	.00045	51.611	.07321	.03423	1.4600	.00154	34.301	.00002	.05235
#2	.00050	50.946	.07369	.03439	1.4361	.00146	33.861	.00041	.05184
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.22423	.64122	152.09	4.7548	4.7764	.10845	23.662	1.8498	.01760
Stddev	.00030	.00120	2.17	.0307	.0160	.00224	.023	.0029	.00048
%RSD	.13557	.18657	1.4293	.64659	.33461	2.0673	.09579	.15536	2.7537
#1	.22402	.64037	153.62	4.7766	4.7877	.11003	23.646	1.8518	.01726
#2	.22444	.64206	150.55	4.7331	4.7651	.10686	23.678	1.8477	.01794
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.7450	.11825	6.0596	F 92.41	.00300	.01046	9.8216	.47873	.38142
Stddev	.0249	.00019	.0059	.13	.00182	.00347	.0677	.00018	.00424
%RSD	1.4284	.15763	.09753	.1406	60.843	33.144	.68952	.03722	1.1111
#1	1.7626	.11838	6.0554	92.32	.00171	.00801	9.8695	.47861	.38441
#2	1.7274	.11812	6.0637	92.50	.00429	.01292	9.7737	.47886	.37842
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	2.3554	-.00037	.14927	2.0430
Stddev	.0016	.00079	.00044	.0018
%RSD	.06664	213.38	.29381	.08679
#1	2.3565	-.00093	.14896	2.0442
#2	2.3542	.00019	.14958	2.0417
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3943.5	7163.4	65671.	10429.
Stddev	3.5	.9	49.	70.
%RSD	.08766	.01206	.07479	.67102
#1	3946.0	7162.8	65705.	10380.
#2	3941.1	7164.0	65636.	10479.

Sample Name: 480-30328-C-8-B Acquired: 12/19/2012 19:15:47 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**52.991**	**.05930**	**.01364**	**.68258**	**.00152**	**62.523**	**.00139**	**.04776**
Stddev	.00014	.544	.00141	.00009	.01071	.00000	.805	.00020	.00022
%RSD	118.97	1.0269	2.3839	.67688	1.5689	.27599	1.2868	14.667	.45295
#1	-.00002	52.606	.05830	.01357	.67501	.00152	61.954	.00153	.04761
#2	-.00022	53.376	.06030	.01370	.69015	.00153	63.092	.00124	.04791
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10281**	**.46063**	**122.94**	**7.6419**	**7.5661**	**.09490**	**19.975**	**2.4670**	**.00633**
Stddev	.00169	.00729	.74	.1356	.0173	.00233	.305	.0388	.00013
%RSD	1.6432	1.5821	.60345	1.7750	.22899	2.4565	1.5269	1.5713	2.0432
#1	.10401	.46579	122.42	7.5460	7.5784	.09325	20.191	2.4944	.00642
#2	.10162	.45548	123.46	7.7378	7.5539	.09655	19.760	2.4396	.00624
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.4679**	**.09923**	**2.3962**	**1.991**	**.00430**	**-.00067**	**13.594**	**.11661**	**.35301**
Stddev	.0234	.00051	.0043	.010	.00171	.00283	.189	.00094	.00470
%RSD	1.5931	.51606	.17902	.4841	39.782	421.84	1.3875	.80312	1.3306
#1	1.4513	.09887	2.3932	1.984	.00309	-.00267	13.460	.11728	.34969
#2	1.4844	.09960	2.3992	1.998	.00551	.00133	13.727	.11595	.35633
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**3.3817**	**-.00266**	**.16058**	**1.0918**
Stddev	.0537	.00369	.00249	.0146
%RSD	1.5890	139.03	1.5483	1.3346
#1	3.4197	-.00004	.16234	1.1021
#2	3.3437	-.00527	.15883	1.0815
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3873.4**	**7140.4**	**66105.**	**10545.**
Stddev	4.0	.8	836.	64.
%RSD	.10320	.01075	1.2640	.61110
#1	3876.2	7141.0	65514.	10590.
#2	3870.6	7139.9	66696.	10499.

Sample Name: 480-30328-C-9-B Acquired: 12/19/2012 19:18:02 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00193**	**62.198**	**.09418**	**.04454**	**1.3612**	**.00554**	**19.249**	F **-.00113**	**.04736**
Stddev	.00049	1.769	.00057	.00099	.0380	.00012	.527	.00031	.00027
%RSD	25.542	2.8445	.60574	2.2273	2.7935	2.1898	2.7357	27.246	.57367
#1	-.00158	60.947	.09459	.04524	1.3343	.00546	18.877	-.00091	.04755
#2	-.00228	63.449	.09378	.04384	1.3881	.00563	19.621	-.00135	.04716
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit								15.000	
Low Limit								-.00100	

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11005**	**.65377**	**218.26**	**9.2922**	**9.2574**	**.09701**	**10.383**	**.84835**	**.03160**
Stddev	.00024	.00021	6.72	.3145	.2296	.00179	.042	.00010	.00006
%RSD	.21929	.03247	3.0784	3.3849	2.4807	1.8420	.40395	.01195	.18320
#1	.11022	.65392	213.51	9.0698	9.0950	.09574	10.413	.84842	.03165
#2	.10988	.65362	223.01	9.5146	9.4198	.09827	10.354	.84828	.03156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.4229**	**.12574**	**3.7398**	F **13.89**	**.00229**	**.03513**	**16.701**	**.90674**	**.40359**
Stddev	.1364	.00071	.0213	.08	.00150	.00108	.479	.00185	.01182
%RSD	3.0835	.56564	.56809	.5439	65.699	3.0617	2.8693	.20389	2.9282
#1	4.3265	.12625	3.7548	13.94	.00335	.03437	16.362	.90804	.39524
#2	4.5194	.12524	3.7248	13.84	.00122	.03589	17.040	.90543	.41195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**2.0272**	**-.00615**	**.24676**	**1.3486**
Stddev	.0068	.00294	.00112	.0001
%RSD	.33750	47.852	.45236	.00442
#1	2.0320	-.00823	.24755	1.3486
#2	2.0223	-.00407	.24597	1.3485
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3722.8**	**6960.8**	**61830.**	**10268.**
Stddev	7.5	20.7	120.	231.
%RSD	.20247	.29679	.19462	2.2529
#1	3717.4	6946.2	61745.	10432.
#2	3728.1	6975.5	61915.	10105.

Sample Name: 480-30303-A-6-A Acquired: 12/19/2012 19:20:18 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00051**	**23.926**	**.02245**	**.03004**	**.27469**	**.00106**	**473.03**	**.00145**	**.03468**
Stddev	.00030	.081	.00100	.00027	.00412	.00008	3.30	.00003	.00034
%RSD	58.901	.33713	4.4356	.88880	1.5001	7.9826	.69825	2.3213	.99372
#1	-.00030	23.869	.02316	.03023	.27760	.00100	470.69	.00148	.03492
#2	-.00072	23.983	.02175	.02985	.27177	.00112	475.36	.00143	.03443
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06972**	**.19403**	**54.167**	**5.3326**	**6.9923**	**.05920**	**85.939**	**1.3566**	**.05596**
Stddev	.00096	.00277	.350	.0294	.0612	.00028	1.340	.0239	.00072
%RSD	1.3764	1.4256	.64607	.55159	.87448	.48036	1.5590	1.7616	1.2938
#1	.07040	.19599	53.919	5.3118	6.9490	.05940	86.886	1.3735	.05647
#2	.06905	.19207	54.414	5.3534	7.0355	.05900	84.992	1.3397	.05545
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.5150**	**.09182**	**.13115**	F **13.81**	**.00142**	**.00078**	**16.013**	**.06819**	**.73015**
Stddev	.0229	.00053	.00011	.09	.00168	.00236	.047	.00214	.00170
%RSD	.65220	.57604	.08065	.6215	118.17	303.39	.29247	3.1345	.23327
#1	3.4988	.09220	.13122	13.87	.00023	.00245	15.979	.06971	.72895
#2	3.5312	.09145	.13107	13.75	.00261	-.00089	16.046	.06668	.73136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.44641**	**-.00241**	**.06145**	**.59693**
Stddev	.00694	.00275	.00032	.01120
%RSD	1.5554	114.33	.51767	1.8768
#1	.45132	-.00435	.06167	.60485
#2	.44150	-.00046	.06122	.58901
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3431.9**	**6697.3**	**62646.**	**10385.**
Stddev	22.8	29.8	890.	81.
%RSD	.66316	.44571	1.4203	.77678
#1	3415.8	6676.2	62017.	10442.
#2	3448.0	6718.4	63275.	10328.

Sample Name: 480-30303-C-7-A Acquired: 12/19/2012 19:22:30 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00181**	**28.154**	**.02502**	**.04122**	**.41927**	**.00110**	**534.07**	**-.00075**	**.03728**
Stddev	.00018	.051	.00102	.00070	.00230	.00001	.47	.00012	.00104
%RSD	10.067	.18266	4.0742	1.7033	.54826	.47188	.08834	16.078	2.7899
#1	-.00193	28.190	.02574	.04172	.42089	.00110	534.40	-.00083	.03801
#2	-.00168	28.117	.02430	.04073	.41764	.00110	533.73	-.00066	.03654
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04882**	**.11079**	**73.206**	**7.7979**	**10.465**	**.09742**	F **250.78**	**3.2735**	**.00191**
Stddev	.00064	.00076	.121	.0343	.018	.00159	1.34	.0168	.00004
%RSD	1.3187	.69036	.16594	.43962	.17452	1.6368	.53451	.51409	2.1352
#1	.04927	.11133	73.120	7.8222	10.478	.09855	251.73	3.2854	.00188
#2	.04836	.11025	73.292	7.7737	10.452	.09629	249.83	3.2616	.00194
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit							250.00		
Low Limit							-.20000		

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.9447**	**.07488**	**.03433**	F **10.64**	**-.00064**	**.00245**	**16.261**	**.03066**	**.61139**
Stddev	.0035	.00004	.00285	.17	.00048	.00268	.033	.00003	.00007
%RSD	.11979	.05527	8.3021	1.636	74.882	109.19	.20274	.10271	.01223
#1	2.9472	.07485	.03231	10.77	-.00030	.00434	16.284	.03064	.61134
#2	2.9422	.07491	.03634	10.52	-.00098	.00056	16.238	.03068	.61144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.62508**	**-.00302**	**.07313**	**.14543**
Stddev	.00670	.00135	.00018	.00028
%RSD	1.0724	44.596	.23971	.19421
#1	.62982	-.00398	.07301	.14563
#2	.62034	-.00207	.07326	.14523
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3335.1**	**6637.7**	**61229.**	**10255.**
Stddev	44.4	79.9	364.	2.
%RSD	1.3320	1.2044	.59394	.01573
#1	3303.7	6581.2	60972.	10257.
#2	3366.5	6694.3	61487.	10254.

Sample Name: 480-30179-A-4-A@5 Acquired: 12/19/2012 19:24:48 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00123	3.4386	.01427	.02023	.53500	-.00028	4.2380	-.00100	.10617
Stddev	.00040	.0356	.00113	.00066	.00210	.00006	.5722	.00007	.00014
%RSD	32.639	1.0343	7.9137	3.2503	.39189	21.272	13.502	7.2708	.13645
#1	.00094	3.4637	.01507	.02070	.53648	-.00024	4.6426	-.00105	.10606
#2	.00151	3.4134	.01347	.01977	.53352	-.00032	3.8334	-.00094	.10627
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.1251	.08120	244.59	.40873	.41395	.01525	5.9885	2.4673	.06029
Stddev	.0078	.00030	.12	.00169	.00365	.00019	.0527	.0176	.00045
%RSD	.69514	.37456	.05069	.41249	.88131	1.2584	.88074	.71241	.75446
#1	1.1306	.08099	244.50	.40754	.41653	.01512	6.0258	2.4797	.06061
#2	1.1195	.08142	244.68	.40992	.41137	.01539	5.9512	2.4549	.05997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.29524	.19168	17.196	1.419	-.00054	.00074	1.6705	.02147	.02955
Stddev	.00015	.00172	.008	.001	.00080	.00589	.0266	.00033	.00057
%RSD	.04956	.89590	.04916	.0515	149.23	793.50	1.5925	1.5304	1.9216
#1	.29513	.19290	17.202	1.419	.00003	-.00342	1.6893	.02124	.02995
#2	.29534	.19047	17.190	1.420	-.00110	.00491	1.6517	.02171	.02915
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	.85858	.00002	.01528	7.6512
Stddev	.00166	.00105	.00055	.0177
%RSD	.19327	5162.5	3.5967	.23143
#1	.85976	.00076	.01567	7.6637
#2	.85741	-.00072	.01489	7.6387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4125.0	7218.6	66044.	10377.
Stddev	5.8	1.5	32.	46.
%RSD	.14099	.02107	.04870	.44475
#1	4129.1	7219.7	66022.	10344.
#2	4120.9	7217.5	66067.	10409.

Sample Name: 480-30179-A-5-A@5 Acquired: 12/19/2012 19:26:59 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00406**	**2.2452**	**.03515**	**.04252**	F **16.541**	**-.00015**	**12.383**	**.11617**	**.02601**
Stddev	.00067	.0260	.00008	.00009	.185	.00007	.122	.00032	.00018
%RSD	16.600	1.1571	.22723	.20354	1.1191	49.011	.98869	.27432	.67298
#1	.00358	2.2268	.03510	.04259	16.410	-.00020	12.297	.11640	.02589
#2	.00454	2.2636	.03521	.04246	16.672	-.00010	12.470	.11594	.02614
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.000				
Low Limit					-.00200				

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14364**	**.23517**	**323.97**	**3.4064**	**3.5266**	**.01580**	**9.6371**	**4.6865**	**.02903**
Stddev	.00364	.00511	3.72	.0715	.0017	.00023	.1739	.0858	.00019
%RSD	2.5353	2.1728	1.1479	2.0992	.04700	1.4491	1.8050	1.8309	.66147
#1	.14622	.23879	321.34	3.3558	3.5277	.01564	9.7601	4.7472	.02889
#2	.14107	.23156	326.60	3.4569	3.5254	.01596	9.5141	4.6258	.02916
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.1834**	**.15066**	**.96849**	F **12.63**	**.00739**	**.00147**	**1.2350**	**.02748**	**.23886**
Stddev	.0689	.00006	.00406	.02	.00022	.00261	.0212	.00058	.00314
%RSD	.95915	.04235	.41882	.1627	2.9990	177.96	1.7139	2.1106	1.3156
#1	7.1347	.15061	.96563	12.65	.00723	-.00038	1.2200	.02789	.23663
#2	7.2322	.15070	.97136	12.62	.00755	.00331	1.2499	.02707	.24108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.53886**	**.00006**	**.14486**	F **201.60**
Stddev	.00939	.00176	.00242	1.87
%RSD	1.7428	2912.6	1.6692	.92664
#1	.54550	-.00118	.14657	202.92
#2	.53222	.00130	.14315	200.28
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				20.000
Low Limit				-.01000

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3948.0**	**7056.7**	**64008.**	**10106.**
Stddev	8.6	17.5	942.	45.
%RSD	.21677	.24785	1.4722	.44149
#1	3954.0	7069.1	63342.	10138.
#2	3941.9	7044.3	64675.	10075.

Sample Name: 480-30262-C-2-A Acquired: 12/19/2012 19:29:20 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00157**	**51.604**	**.00820**	**.00537**	**.30581**	**.00102**	**4.5943**	**-.00092**	**.02963**
Stddev	.00015	.214	.00197	.00006	.00243	.00007	.0288	.00011	.00026
%RSD	9.4468	.41501	23.990	1.1002	.79376	6.4146	.62735	12.132	.88717
#1	-.00147	51.453	.00681	.00533	.30753	.00098	4.5739	-.00084	.02981
#2	-.00168	51.755	.00959	.00541	.30409	.00107	4.6147	-.00100	.02944
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10953**	**.06280**	**68.190**	**5.3524**	**5.0232**	**.03670**	**11.563**	**1.8394**	**.16732**
Stddev	.00030	.00029	.145	.0097	.0026	.00026	.128	.0161	.00173
%RSD	.27139	.46791	.21280	.18047	.05202	.70972	1.1098	.87611	1.0353
#1	.10974	.06301	68.088	5.3593	5.0251	.03688	11.654	1.8508	.16855
#2	.10932	.06260	68.293	5.3456	5.0214	.03652	11.473	1.8280	.16610
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.86507**	**.07271**	**.04180**	**.1715**	**-.00049**	**-.00375**	**12.586**	**.03402**	**.03233**
Stddev	.01264	.00147	.00008	.0026	.00099	.00401	.083	.00057	.00005
%RSD	1.4612	2.0180	.20098	1.527	202.19	106.85	.65803	1.6723	.16041
#1	.87400	.07375	.04186	.1697	-.00119	-.00092	12.527	.03442	.03229
#2	.85613	.07168	.04175	.1734	.00021	-.00658	12.644	.03361	.03236
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**2.8710**	**-.00329**	**.13627**	**.16935**
Stddev	.0135	.00022	.00126	.00205
%RSD	.47161	6.7184	.92327	1.2125
#1	2.8806	-.00314	.13716	.17080
#2	2.8614	-.00345	.13538	.16790
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4027.4**	**7307.0**	**67021.**	**10565.**
Stddev	35.2	61.1	464.	1.
%RSD	.87405	.83563	.69231	.00519
#1	4002.5	7263.8	66693.	10566.
#2	4052.3	7350.2	67349.	10565.

Sample Name: MB 480-96162/1-A Acquired: 12/19/2012 19:31:28 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00125**	**.00594**	**-.00087**	**-.00070**	**.00077**	**.00004**	**.05256**	**.00012**	**.00008**
Stddev	.00042	.01130	.00054	.00010	.00002	.00001	.00212	.00008	.00018
%RSD	33.866	190.33	62.227	15.041	2.4495	21.714	4.0421	66.804	226.52
#1	-.00155	.01393	-.00049	-.00062	.00078	.00004	.05406	.00007	.00020
#2	-.00095	-.00205	-.00126	-.00077	.00075	.00003	.05105	.00018	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**.00075**	F **.06705**	**.01614**	**.02973**	**.00057**	**.00186**	**.00071**	**.00039**
Stddev	.00005	.00030	.00150	.02522	.00014	.00005	.00707	.00004	.00024
%RSD	12.360	40.118	2.2409	156.26	.46192	8.0907	379.63	6.0264	62.301
#1	.00042	.00096	.06811	-.00169	.02982	.00060	.00686	.00074	.00056
#2	.00036	.00054	.06598	.03397	.02963	.00054	-.00314	.00068	.00022
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.05000						
Low Limit			-.04000						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01885**	**.00000**	**.00027**	F **.0090**	**-.00097**	**.00126**	**.43938**	F **.03750**	**.00001**
Stddev	.00471	.0000	.00096	.0012	.00043	.00170	.01426	.00201	.00008
%RSD	24.995	1099.0	362.42	13.06	43.969	134.84	3.2456	5.3697	1082.1
#1	-.01552	-.00002	-.00042	.0098	-.00067	.00246	.42930	.03608	-.00005
#2	-.02218	.00001	.00095	.0082	-.00128	.00006	.44947	.03893	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.0030				.01000	
Low Limit				-.0040				-.01000	

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00091**	**-.00189**	**.00021**	F **.01712**
Stddev	.00006	.00058	.00024	.00047
%RSD	6.8352	30.734	114.34	2.7529
#1	.00086	-.00230	.00038	.01745
#2	.00095	-.00148	.00004	.01679
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				.01000
Low Limit				-.00300

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4402.8**	**7376.3**	**67058.**	**10303.**
Stddev	220.3	357.7	298.	82.
%RSD	5.0031	4.8487	.44421	.79344
#1	4558.5	7629.2	66847.	10361.
#2	4247.0	7123.4	67268.	10245.

Sample Name: CCV Acquired: 12/19/2012 19:33:44 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50391	24.287	.49890	.49500	.49070	.48967	24.747	.50163	.49900	.50916	.50402	23.709	24.875
Stddev	.00179	.156	.00164	.00048	.00435	.00322	.198	.00086	.00055	.00249	.00045	.225	.157
%RSD	.35508	.64084	.32800	.09769	.88550	.65764	.80136	.17235	.10974	.48883	.08841	.94822	.63069
#1	.50264	24.397	.50006	.49466	.49377	.49195	24.887	.50102	.49861	.50740	.50371	23.868	24.986
#2	.50517	24.177	.49774	.49534	.48763	.48740	24.606	.50224	.49939	.51092	.50434	23.550	24.764
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.015	.48905	24.528	.50845	.50720	24.665	.49992	.50686	24.37	.50290	.49408	24.365	.52164
Stddev	.478	.00243	.023	.00112	.00048	.136	.00124	.00115	.02	.00059	.00245	.134	.00075
%RSD	1.8357	.49637	.09452	.22057	.09523	.55304	.24705	.22662	.0801	.11707	.49667	.54808	.14367
#1	26.353	.49076	24.545	.50766	.50686	24.762	.50080	.50767	24.36	.50332	.49581	24.459	.52217
#2	25.677	.48733	24.512	.50924	.50754	24.569	.49905	.50604	24.38	.50248	.49234	24.270	.52111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	.49377	.50698	.50456	.50823	.52849
Stddev	.00297	.00131	.00550	.00127	.00045
%RSD	.60071	.25804	1.0902	.24896	.08441
#1	.49587	.50605	.50067	.50913	.52818
#2	.49167	.50790	.50845	.50734	.52881
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4023.9	7178.6	64971.	10260.
Stddev	5.2	15.8	167.	99.
%RSD	.12939	.21942	.25648	.96014
#1	4027.5	7189.8	65089.	10191.
#2	4020.2	7167.5	64853.	10330.

Sample Name: CCB Acquired: 12/19/2012 19:35:53 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00085**	**.01003**	**-.00128**	**-.00067**	**.00069**	**.00014**	**.01919**	**-.00006**	**.00004**	**-.00018**	**.00063**	**.02942**
Stddev	.00063	.00573	.00126	.00040	.00017	.00007	.02113	.00016	.00004	.00002	.00047	.02432
%RSD	73.914	57.098	98.529	60.221	24.921	52.612	110.12	262.07	105.79	12.499	74.108	82.672
#1	-.00040	.00598	-.00217	-.00038	.00081	.00009	.00425	.00005	.00001	-.00016	.00030	.01222
#2	-.00129	.01408	-.00039	-.00095	.00057	.00019	.03413	-.00017	.00007	-.00019	.00097	.04662
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.03711**	**.00622**	**-.00009**	**.00277**	**.00049**	**-.00006**	**.00653**	**.00003**	**.00000**	**-.0017**	**.00064**	**-.00115**
Stddev	.01401	.00028	.00049	.00392	.00012	.00021	.00938	.00025	.00135	.0008	.00114	.00079
%RSD	37.748	4.4340	571.65	141.67	24.532	382.89	143.69	795.20	33714.	47.89	177.15	68.808
#1	-.04701	.00641	-.00044	.00000	.00058	-.00021	-.00010	-.00015	.00096	-.0011	-.00016	-.00059
#2	-.02720	.00602	.00026	.00553	.00041	.00010	.01317	.00021	-.00095	-.0023	.00145	-.00171
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01103**	**-.00021**	**-.00002**	**.00031**	**-.00147**	**-.00010**	F **.01291**
Stddev	.01495	.00021	.00025	.00010	.00347	.00029	.00224
%RSD	135.45	99.022	1034.9	33.309	237.04	286.97	17.381
#1	.00047	-.00036	-.00020	.00038	.00099	-.00031	.01449
#2	.02160	-.00006	.00016	.00023	-.00392	.00011	.01132
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.01000
Low Limit							-.01000

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4334.3**	**7261.6**	**65975.**	**10232.**
Stddev	5.0	10.8	180.	8.
%RSD	.11606	.14915	.27323	.08210
#1	4330.7	7253.9	65847.	10238.
#2	4337.8	7269.2	66102.	10226.

Sample Name: LCSSRM 480-96162/2-A Acquired: 12/19/2012 19:38:08 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.31768	66.786	.88181	1.0425	1.4820	.50712	56.235	.58301	1.0199
Stddev	.00072	.042	.00510	.0008	.0008	.00154	.035	.00062	.0000
%RSD	.22574	.06286	.57874	.07187	.05252	.30348	.06230	.10692	.00217
#1	.31819	66.816	.88542	1.0430	1.4825	.50821	56.210	.58345	1.0199
#2	.31717	66.757	.87820	1.0419	1.4814	.50603	56.260	.58257	1.0199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.64504	.75994	99.656	34.478	33.254	.06881	26.730	2.6158	.42893
Stddev	.00086	.00312	.242	.093	.257	.00097	.012	.0000	.00111
%RSD	.13350	.41011	.24267	.27006	.77332	1.4104	.04448	.00116	.25971
#1	.64443	.75774	99.827	34.544	33.072	.06950	26.722	2.6158	.42972
#2	.64565	.76214	99.485	34.412	33.435	.06813	26.738	2.6158	.42814
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.0564	.57533	.90691	2.198	.85266	1.4923	17.241	1.0092	.60803
Stddev	.0123	.00142	.00084	.002	.00716	.0025	.046	.0006	.00157
%RSD	.20240	.24683	.09311	.0761	.83970	.16828	.26718	.06135	.25894
#1	6.0650	.57633	.90631	2.200	.85773	1.4905	17.209	1.0096	.60914
#2	6.0477	.57432	.90751	2.197	.84760	1.4941	17.274	1.0087	.60691
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	None
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	2.2471	1.1916	.51491	1.3175
Stddev	.0003	.0018	.00163	.0004
%RSD	.01132	.14959	.31571	.02903
#1	2.2469	1.1929	.51376	1.3177
#2	2.2472	1.1903	.51606	1.3172
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3825.6	7249.9	65741.	10541.
Stddev	2.2	2.7	223.	6.
%RSD	.05728	.03746	.33937	.05309
#1	3827.2	7247.9	65583.	10537.
#2	3824.1	7251.8	65899.	10545.

Sample Name: LCDSRM 480-96162/3-A Acquired: 12/19/2012 19:40:15 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.30884**	**63.581**	**.93666**	**1.1347**	**1.4859**	**.51547**	**62.023**	**.64711**	**1.1153**
Stddev	.01640	2.033	.01211	.0081	.0450	.01411	1.939	.00422	.0069
%RSD	5.3092	3.1978	1.2929	.71633	3.0283	2.7367	3.1260	.65150	.61878
#1	.29724	65.019	.92810	1.1289	1.5177	.52545	63.394	.64413	1.1104
#2	.32043	62.143	.94523	1.1404	1.4541	.50550	60.652	.65010	1.1202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.62598**	**.76168**	**95.314**	**34.056**	**32.290**	**.06526**	**25.305**	**2.5477**	**.48761**
Stddev	.03225	.03886	2.731	1.021	.790	.00229	1.403	.1398	.00193
%RSD	5.1513	5.1025	2.8647	2.9982	2.4475	3.5106	5.5456	5.4890	.39591
#1	.60318	.73420	97.245	34.778	32.849	.06688	24.313	2.4488	.48625
#2	.64878	.78916	93.383	33.334	31.731	.06364	26.297	2.6466	.48898
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.1967**	**.63436**	**.94093**	**2.397**	**.94546**	**1.6239**	**15.560**	**1.0588**	**.63066**
Stddev	.1903	.00321	.00571	.012	.00080	.0122	.521	.0057	.01769
%RSD	3.0714	.50616	.60651	.5104	.08480	.75077	3.3462	.53675	2.8045
#1	6.3313	.63209	.93690	2.389	.94602	1.6153	15.928	1.0548	.64316
#2	6.0621	.63663	.94497	2.406	.94489	1.6325	15.192	1.0628	.61815
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	None
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**2.0617**	**1.2625**	**.49411**	**1.2520**
Stddev	.1009	.0040	.02295	.0624
%RSD	4.8917	.31532	4.6444	4.9817
#1	1.9904	1.2596	.47788	1.2079
#2	2.1331	1.2653	.51034	1.2961
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3775.4**	**7162.6**	**70526.**	**10837.**
Stddev	15.2	34.8	2531.	276.
%RSD	.40346	.48548	3.5889	2.5439
#1	3786.2	7187.1	72316.	10642.
#2	3764.6	7138.0	68737.	11032.

Sample Name: 480-30254-A-1-C Acquired: 12/19/2012 19:42:16 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00124**	**19.738**	**.02491**	**.05171**	**.03038**	**.00592**	**8.0398**	**.00057**	**.01050**
Stddev	.00112	.382	.00033	.00004	.00149	.00157	.2495	.00007	.00002
%RSD	90.240	1.9365	1.3361	.07704	4.8939	26.465	3.1032	12.502	.14666
#1	-.00045	20.008	.02514	.05174	.03143	.00703	8.2162	.00062	.01051
#2	-.00204	19.467	.02467	.05169	.02933	.00481	7.8633	.00052	.01049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06534**	**.26321**	**47.009**	**3.9801**	**3.6125**	**.05457**	**11.832**	**.41256**	**.01174**
Stddev	.00139	.00011	.441	.1314	.0223	.00137	.115	.00529	.00012
%RSD	2.1251	.04023	.93914	3.3024	.61730	2.5175	.97531	1.2823	1.0246
#1	.06632	.26328	47.321	4.0730	3.6283	.05360	11.914	.41630	.01165
#2	.06436	.26313	46.696	3.8872	3.5968	.05554	11.750	.40882	.01182
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.538**	**.02591**	**.14437**	F **35.59**	**.00167**	**-.00078**	**11.232**	**.02503**	**.09728**
Stddev	.209	.00000	.00107	.00	.00033	.00172	.132	.00032	.00253
%RSD	1.1276	.00699	.73780	.0010	19.641	219.95	1.1720	1.2685	2.5987
#1	18.686	.02591	.14362	35.59	.00190	-.00200	11.325	.02526	.09907
#2	18.390	.02591	.14513	35.59	.00144	.00043	11.139	.02481	.09549
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**1.1332**	**-.00175**	**.06778**	**.29357**
Stddev	.0034	.00059	.00050	.00264
%RSD	.29924	33.882	.74123	.89945
#1	1.1356	-.00133	.06814	.29543
#2	1.1308	-.00217	.06743	.29170
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4062.8**	**7259.8**	**66231.**	**10194.**
Stddev	1.7	7.3	361.	122.
%RSD	.04199	.10085	.54505	1.1940
#1	4061.6	7254.6	65975.	10108.
#2	4064.0	7265.0	66486.	10280.

Sample Name: 480-30254-A-2-C Acquired: 12/19/2012 19:44:18 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00130**	**15.212**	**.01999**	**.12988**	**.02870**	**.00238**	**10.368**	**.00186**	**.00932**
Stddev	.00078	.113	.00059	.00073	.00013	.00018	.077	.00017	.00013
%RSD	59.730	.74270	2.9733	.56193	.46417	7.6907	.74047	9.1500	1.4239
#1	-.00075	15.132	.01957	.13040	.02860	.00251	10.314	.00174	.00941
#2	-.00185	15.292	.02041	.12937	.02879	.00225	10.422	.00198	.00922
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03812**	**.18210**	**36.043**	**3.2905**	**3.3696**	**.03336**	**13.952**	**.32432**	**.01206**
Stddev	.00093	.00067	.154	.0558	.0188	.00021	.032	.00015	.00018
%RSD	2.4521	.37038	.42834	1.6968	.55878	.63644	.22584	.04487	1.4712
#1	.03878	.18162	35.934	3.2510	3.3563	.03351	13.930	.32421	.01193
#2	.03746	.18258	36.152	3.3300	3.3829	.03321	13.974	.32442	.01218
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**32.520**	**.02518**	**.12165**	F **51.63**	**.00065**	**.00251**	**11.855**	**.01863**	**.14612**
Stddev	.213	.00067	.00002	.10	.00304	.00085	.062	.00072	.00109
%RSD	.65423	2.6463	.01607	.1991	470.29	33.661	.52651	3.8421	.74613
#1	32.369	.02471	.12163	51.70	-.00150	.00311	11.811	.01812	.14535
#2	32.670	.02566	.12166	51.56	.00279	.00191	11.899	.01913	.14689
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.86358**	**-.00219**	**.05324**	**.38238**
Stddev	.00234	.00026	.00061	.00012
%RSD	.27062	11.908	1.1446	.03104
#1	.86193	-.00200	.05367	.38230
#2	.86523	-.00237	.05281	.38247
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4028.6**	**7234.9**	**66270.**	**10573.**
Stddev	3.7	3.9	53.	16.
%RSD	.09084	.05393	.08011	.15300
#1	4031.2	7232.2	66307.	10585.
#2	4026.0	7237.7	66232.	10562.

Sample Name: 480-30254-A-3-C Acquired: 12/19/2012 19:46:21 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00214**	**20.253**	**.01976**	**.08118**	**.04054**	**.00247**	**8.5417**	**.00125**	**.01229**
Stddev	.00006	.065	.00060	.00045	.00025	.00003	.0120	.00006	.00026
%RSD	3.0307	.31875	3.0332	.55478	.60926	1.2107	.13993	4.5705	2.0845
#1	-.00219	20.298	.02019	.08086	.04071	.00249	8.5501	.00129	.01247
#2	-.00210	20.207	.01934	.08149	.04036	.00245	8.5332	.00121	.01211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04550**	**.11296**	**45.256**	**3.8925**	**4.0630**	**.04907**	**13.003**	**.43221**	**.01147**
Stddev	.00009	.00041	.109	.0258	.0139	.00096	.100	.00287	.00003
%RSD	.20704	.36494	.24035	.66354	.34177	1.9661	.76765	.66369	.23991
#1	.04543	.11326	45.333	3.8743	4.0728	.04839	13.074	.43424	.01145
#2	.04556	.11267	45.179	3.9108	4.0531	.04975	12.933	.43019	.01149
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**29.446**	**.02560**	**.11273**	F **42.13**	**.00115**	**-.00115**	**11.450**	**.02538**	**.10480**
Stddev	.005	.00069	.00109	.06	.00235	.00067	.022	.00020	.00023
%RSD	.01597	2.6767	.96453	.1439	203.92	58.126	.19144	.77589	.22370
#1	29.442	.02608	.11196	42.09	-.00051	-.00163	11.434	.02552	.10497
#2	29.449	.02511	.11350	42.17	.00282	-.00068	11.465	.02524	.10464
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**1.2306**	**-.00206**	**.06044**	**.29065**
Stddev	.0040	.00163	.00096	.00086
%RSD	.32939	79.506	1.5869	.29720
#1	1.2335	-.00090	.06112	.29126
#2	1.2277	-.00321	.05977	.29004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4038.3**	**7292.3**	**66453.**	**10530.**
Stddev	7.5	15.8	406.	33.
%RSD	.18562	.21729	.61169	.31343
#1	4043.6	7303.5	66165.	10507.
#2	4033.0	7281.1	66740.	10553.

Sample Name: 480-30254-A-4-C Acquired: 12/19/2012 19:48:27 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00124**	**19.608**	**.01456**	**.07079**	**.04038**	**.00185**	**7.4971**	**.00111**	**.01130**
Stddev	.00075	.161	.00067	.00013	.00000	.00017	.0839	.00006	.00003
%RSD	60.644	.82044	4.6320	.18356	.00014	9.1080	1.1188	5.2187	.28767
#1	-.00177	19.495	.01504	.07070	.04038	.00173	7.4378	.00106	.01132
#2	-.00071	19.722	.01408	.07088	.04038	.00197	7.5564	.00115	.01128
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05065**	**.07782**	**42.302**	**4.7701**	**5.0309**	**.05296**	**13.586**	**.35802**	**.01061**
Stddev	.00035	.00005	.375	.0191	.0105	.00052	.015	.00051	.00037
%RSD	.69224	.06147	.88707	.40039	.20903	.98276	.10975	.14198	3.5090
#1	.05090	.07785	42.037	4.7566	5.0235	.05260	13.576	.35766	.01034
#2	.05040	.07778	42.567	4.7836	5.0384	.05333	13.597	.35838	.01087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**35.314**	**.02854**	**.07156**	F **41.43**	**.00009**	**.00239**	**11.692**	**.02211**	**.09946**
Stddev	.301	.00045	.00089	.15	.00069	.00077	.067	.00023	.00118
%RSD	.85277	1.5775	1.2488	.3546	807.05	32.413	.57257	1.0359	1.1889
#1	35.101	.02822	.07219	41.33	.00057	.00184	11.645	.02228	.09862
#2	35.526	.02886	.07093	41.54	-.00040	.00293	11.739	.02195	.10029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**1.2325**	**-.00255**	**.06191**	**.22187**
Stddev	.0001	.00130	.00013	.00041
%RSD	.00774	51.116	.20272	.18691
#1	1.2326	-.00347	.06200	.22158
#2	1.2325	-.00163	.06182	.22216
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4002.0**	**7228.0**	**66039.**	**10474.**
Stddev	3.7	15.1	206.	40.
%RSD	.09205	.20895	.31239	.38216
#1	4004.6	7238.7	66185.	10502.
#2	3999.4	7217.3	65893.	10446.

Sample Name: 480-30254-A-5-C Acquired: 12/19/2012 19:50:36 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00176**	**10.809**	**.01086**	**.06980**	**.02155**	**.00117**	**6.2110**	**.00078**	**.00606**
Stddev	.00086	.037	.00076	.00005	.00018	.00003	.0151	.00000	.00012
%RSD	48.857	.33815	7.0335	.07682	.83387	2.7197	.24271	.03738	1.9115
#1	-.00115	10.835	.01032	.06976	.02168	.00114	6.2217	.00078	.00598
#2	-.00237	10.783	.01140	.06983	.02143	.00119	6.2003	.00078	.00614
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03154**	**.07201**	**25.439**	**3.2076**	**3.3191**	**.02791**	**10.307**	**.24422**	**.00675**
Stddev	.00039	.00033	.035	.0183	.0073	.00021	.090	.00243	.00003
%RSD	1.2230	.46405	.13597	.57178	.22032	.76649	.87515	.99406	.38367
#1	.03182	.07225	25.415	3.2206	3.3139	.02776	10.370	.24594	.00673
#2	.03127	.07178	25.464	3.1946	3.3243	.02806	10.243	.24251	.00677
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**33.124**	**.01610**	**.04316**	F **29.94**	**.00024**	**.00142**	**11.025**	**.01645**	**.08092**
Stddev	.002	.00075	.00069	.01	.00196	.00106	.071	.00066	.00010
%RSD	.00490	4.6819	1.6033	.0169	817.87	74.762	.64348	4.0193	.11743
#1	33.123	.01557	.04365	29.93	.00162	.00067	11.076	.01692	.08085
#2	33.125	.01663	.04267	29.94	-.00115	.00217	10.975	.01598	.08099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.64653**	**-.00278**	**.03925**	**.17201**
Stddev	.00381	.00183	.00020	.00102
%RSD	.58917	65.769	.52189	.59275
#1	.64923	-.00148	.03911	.17273
#2	.64384	-.00407	.03940	.17129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4064.2**	**7272.1**	**66216.**	**10516.**
Stddev	1.7	7.9	481.	28.
%RSD	.04080	.10879	.72623	.26748
#1	4065.4	7277.7	65876.	10496.
#2	4063.1	7266.5	66556.	10536.

Sample Name: 480-30254-A-6-C Acquired: 12/19/2012 19:52:47 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00148**	**9.8179**	**.01052**	**.08349**	**.01678**	**.00127**	**6.5665**	**.00056**	**.00624**
Stddev	.00016	.1548	.00245	.00036	.00006	.00015	.0877	.00004	.00001
%RSD	10.682	1.5773	23.301	.43686	.36983	11.848	1.3355	6.5437	.20879
#1	-.00160	9.9274	.01225	.08375	.01683	.00138	6.6285	.00054	.00625
#2	-.00137	9.7084	.00879	.08323	.01674	.00117	6.5045	.00059	.00623
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03100**	**.13445**	**26.639**	**2.9740**	**3.0787**	**.02305**	**10.685**	**.27391**	**.00741**
Stddev	.00020	.00122	.383	.0798	.0308	.00061	.044	.00108	.00029
%RSD	.63760	.90577	1.4364	2.6824	1.0013	2.6435	.41292	.39602	3.9456
#1	.03086	.13531	26.910	3.0304	3.1005	.02262	10.717	.27468	.00720
#2	.03114	.13359	26.369	2.9176	3.0569	.02348	10.654	.27314	.00761
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**37.821**	**.01456**	**.05595**	F **32.36**	**.00147**	**.00163**	**10.442**	**.01955**	**.08799**
Stddev	.514	.00001	.00053	.02	.00099	.00218	.155	.00022	.00089
%RSD	1.3578	.09748	.94534	.0555	67.186	133.85	1.4839	1.1303	1.0121
#1	38.184	.01457	.05558	32.35	.00217	.00316	10.551	.01971	.08862
#2	37.458	.01455	.05633	32.37	.00077	.00009	10.332	.01940	.08736
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.59867**	**-.00252**	**.04248**	**.20404**
Stddev	.00234	.00172	.00056	.00207
%RSD	.39101	68.558	1.3234	1.0160
#1	.60033	-.00130	.04288	.20551
#2	.59702	-.00374	.04208	.20258
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4042.7**	**7195.0**	**65433.**	**10329.**
Stddev	7.1	5.2	462.	156.
%RSD	.17571	.07174	.70657	1.5075
#1	4047.8	7198.6	65106.	10219.
#2	4037.7	7191.3	65760.	10439.

Sample Name: 480-30254-A-7-C Acquired: 12/19/2012 19:54:56 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00133**	**17.051**	**.01638**	**.05574**	**.02578**	**.00159**	**7.1145**	**.00069**	**.00921**
Stddev	.00077	.095	.00050	.00103	.00015	.00005	.0067	.00018	.00007
%RSD	57.857	.55460	3.0230	1.8400	.56276	2.9387	.09357	26.694	.81060
#1	-.00188	17.118	.01603	.05647	.02568	.00162	7.1192	.00082	.00926
#2	-.00079	16.984	.01673	.05502	.02589	.00155	7.1098	.00056	.00916
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04830**	**.17693**	**45.610**	**4.0422**	**4.2297**	**.05325**	**12.845**	**.42303**	**.00999**
Stddev	.00008	.00041	.074	.0663	.0007	.00104	.080	.00418	.00011
%RSD	.16913	.23449	.16181	1.6398	.01656	1.9463	.61909	.98791	1.1204
#1	.04836	.17664	45.662	4.0891	4.2302	.05399	12.789	.42008	.00991
#2	.04824	.17723	45.557	3.9954	4.2292	.05252	12.902	.42599	.01007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**33.448**	**.02270**	**.09298**	F **36.03**	**.00052**	**.00073**	**9.1747**	**.02300**	**.08105**
Stddev	.145	.00033	.00046	.46	.00100	.00130	.0847	.00069	.00034
%RSD	.43405	1.4413	.49120	1.279	190.60	176.95	.92356	3.0104	.41446
#1	33.551	.02293	.09331	36.36	-.00018	.00165	9.2346	.02348	.08129
#2	33.346	.02246	.09266	35.70	.00123	-.00018	9.1148	.02251	.08081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**1.0711**	**-.00212**	**.06756**	**.32801**
Stddev	.0071	.00134	.00068	.00476
%RSD	.66305	63.297	1.0104	1.4527
#1	1.0661	-.00307	.06708	.32464
#2	1.0762	-.00117	.06805	.33138
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4103.0**	**7412.3**	**66377.**	**10583.**
Stddev	33.4	45.6	407.	15.
%RSD	.81462	.61580	.61242	.14525
#1	4079.4	7380.0	66665.	10594.
#2	4126.6	7444.6	66090.	10572.

Sample Name: 480-30254-A-8-C Acquired: 12/19/2012 19:57:05 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00146**	**15.314**	**.01751**	**.01022**	**.02228**	**.00129**	**5.6021**	**.00065**	**.00810**
Stddev	.00045	.042	.00209	.00012	.00005	.00005	.0320	.00006	.00001
%RSD	30.704	.27273	11.913	1.2221	.23188	4.2575	.57184	8.5676	.08498
#1	-.00178	15.343	.01899	.01030	.02232	.00133	5.6248	.00069	.00810
#2	-.00114	15.284	.01604	.01013	.02225	.00125	5.5795	.00061	.00811
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05564**	**.19854**	**38.943**	**2.3698**	**2.0377**	**.04289**	**7.7318**	**.34155**	**.00886**
Stddev	.00012	.00030	.062	.0224	.0046	.00028	.0625	.00218	.00001
%RSD	.21266	.15006	.16004	.94564	.22397	.64762	.80893	.63797	.11592
#1	.05555	.19833	38.987	2.3540	2.0410	.04270	7.7760	.34309	.00887
#2	.05572	.19875	38.899	2.3857	2.0345	.04309	7.6876	.34001	.00885
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.3552**	**.02128**	**.08014**	F **28.91**	**.00097**	**.00108**	**9.4500**	**.02548**	**.04891**
Stddev	.0211	.00024	.00054	.05	.00065	.00057	.0673	.00001	.00032
%RSD	.89711	1.1176	.67538	.1662	67.529	53.337	.71226	.05786	.64815
#1	2.3702	.02111	.07976	28.94	.00143	.00148	9.4976	.02549	.04914
#2	2.3403	.02145	.08053	28.88	.00050	.00067	9.4025	.02547	.04869
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.89537**	**-.00297**	**.05878**	**.24104**
Stddev	.00083	.00045	.00015	.00139
%RSD	.09258	15.166	.26333	.57710
#1	.89479	-.00329	.05889	.24203
#2	.89596	-.00266	.05867	.24006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4153.6**	**7303.3**	**66440.**	**10403.**
Stddev	5.8	8.6	78.	42.
%RSD	.13900	.11767	.11666	.40201
#1	4149.5	7297.3	66386.	10374.
#2	4157.6	7309.4	66495.	10433.

Sample Name: CCV Acquired: 12/19/2012 19:59:17 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50488	24.409	.49693	.49651	.49219	.49220	24.944	.50263	.50033	.51272	.50539	23.838	24.955
Stddev	.00173	.062	.00172	.00011	.00022	.00014	.075	.00058	.00003	.00004	.00052	.027	.036
%RSD	.34292	.25409	.34523	.02143	.04411	.02762	.30215	.11460	.00506	.00737	.10346	.11519	.14627
#1	.50611	24.365	.49814	.49644	.49204	.49210	24.891	.50304	.50031	.51270	.50576	23.818	24.981
#2	.50366	24.452	.49572	.49659	.49234	.49230	24.997	.50222	.50035	.51275	.50502	23.857	24.929
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.213	.49032	24.622	.50925	.50803	24.786	.50033	.50834	24.36	.50325	.49152	24.547	.52323
Stddev	.144	.00005	.022	.00026	.00014	.033	.00090	.00133	.03	.00031	.00137	.084	.00049
%RSD	.54807	.00946	.08885	.05120	.02828	.13160	.17930	.26242	.1134	.06223	.27814	.34136	.09414
#1	26.314	.49035	24.637	.50943	.50792	24.809	.50096	.50929	24.38	.50303	.49248	24.488	.52358
#2	26.111	.49028	24.606	.50906	.50813	24.763	.49969	.50740	24.34	.50348	.49055	24.606	.52288
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	.49666	.50830	.50490	.51015	.52548
Stddev	.00052	.00019	.00306	.00053	.00222
%RSD	.10467	.03739	.60545	.10354	.42239
#1	.49630	.50843	.50706	.51052	.52391
#2	.49703	.50816	.50274	.50977	.52705
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4021.4	7180.0	64477.	10211.
Stddev	4.5	5.2	111.	31.
%RSD	.11158	.07199	.17266	.30337
#1	4018.2	7176.3	64556.	10233.
#2	4024.6	7183.6	64398.	10190.

Sample Name: CCB Acquired: 12/19/2012 20:01:31 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00053	.00524	-.00060	.00013	.00010	.00007	.00703	-.00008	-.00005	-.00025	.00092	.00589	-.00082
Stddev	.00037	.02223	.00270	.00016	.00000	.00001	.00065	.00005	.00008	.00008	.00013	.00010	.01328
%RSD	69.446	424.14	451.95	121.89	2.8235	15.249	9.2903	61.820	177.28	33.722	13.792	1.7307	1622.0
#1	-.00079	.02096	.00131	.00024	.00010	.00006	.00749	-.00012	-.00011	-.00019	.00101	.00582	.00857
#2	-.00027	-.01048	-.00250	.00002	.00010	.00008	.00656	-.00005	.00001	-.00030	.00083	.00596	-.01021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00614	-.00064	.00115	.00011	-.00005	.00685	-.00027	-.00031	-.0001	.00059	-.00190	.00030	-.00037
Stddev	.00087	.00069	.00380	.00002	.00008	.00382	.00003	.00012	.0003	.00068	.00009	.00536	.00036
%RSD	14.203	107.34	328.97	14.536	173.95	55.816	9.6776	39.012	239.9	115.95	4.5848	1794.4	98.652
#1	.00676	-.00015	.00384	.00010	-.00011	.00955	-.00025	-.00023	-.0003	.00011	-.00196	-.00349	-.00062
#2	.00553	-.00113	-.00153	.00013	.00001	.00414	-.00029	-.00040	.0001	.00107	-.00184	.00409	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00002	-.00022	-.00168	-.00032	.00060
Stddev	.00014	.00037	.00162	.00008	.00025
%RSD	541.25	173.46	96.881	24.296	42.379
#1	-.00012	-.00048	-.00282	-.00027	.00042
#2	.00007	.00005	-.00053	-.00038	.00078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4364.7	7320.0	66430.	10260.
Stddev	6.0	12.2	434.	17.
%RSD	.13803	.16616	.65394	.16262
#1	4360.5	7311.4	66123.	10272.
#2	4369.0	7328.6	66737.	10248.

Sample Name: 480-30254-A-9-C Acquired: 12/19/2012 20:03:46 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00090	11.877	.01006	.06782	.02411	.00133	6.0921	.00086	.00672
Stddev	.00054	.179	.00082	.00035	.00017	.00000	.0650	.00001	.00008
%RSD	59.899	1.5030	8.1081	.51336	.72237	.11582	1.0677	1.5616	1.1815
#1	-.00052	11.751	.01063	.06807	.02399	.00133	6.0461	.00087	.00666
#2	-.00129	12.004	.00948	.06758	.02424	.00133	6.1380	.00085	.00677
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03450	.08043	26.973	3.3665	3.5069	.03102	10.673	.26514	.00745
Stddev	.00014	.00001	.345	.0610	.0074	.00008	.082	.00209	.00013
%RSD	.41175	.01113	1.2807	1.8114	.21150	.24405	.77111	.78888	1.8044
#1	.03460	.08042	26.728	3.3234	3.5017	.03107	10.615	.26366	.00755
#2	.03440	.08044	27.217	3.4096	3.5122	.03097	10.731	.26662	.00736
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	31.232	.01851	.04167	F 29.49	-.00085	.00187	10.087	.01746	.07854
Stddev	.288	.00030	.00024	.02	.00031	.00296	.125	.00029	.00103
%RSD	.92104	1.6297	.57988	.0649	36.441	158.17	1.2386	1.6389	1.3142
#1	31.028	.01872	.04150	29.51	-.00063	.00397	9.9990	.01766	.07781
#2	31.435	.01830	.04184	29.48	-.00106	-.00022	10.176	.01726	.07927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	.70589	-.00352	.04026	.17553
Stddev	.00122	.00183	.00050	.00017
%RSD	.17214	51.972	1.2508	.09528
#1	.70675	-.00223	.03991	.17541
#2	.70503	-.00481	.04062	.17564
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4028.3	7185.5	65680.	10551.
Stddev	5.4	.7	67.	48.
%RSD	.13328	.00939	.10190	.45573
#1	4024.6	7185.9	65727.	10585.
#2	4032.1	7185.0	65632.	10517.

Sample Name: 480-30254-A-9-C SD@5 Acquired: 12/19/2012 20:05:50 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00119**	**2.4420**	**.00129**	**.01318**	**.00500**	**.00027**	**1.2664**	**.00013**	**.00129**
Stddev	.00027	.0305	.00115	.00012	.00000	.00001	.0008	.00006	.00001
%RSD	23.145	1.2482	89.390	.90649	.08666	2.0106	.06477	46.561	.64190
#1	-.00138	2.4204	.00047	.01310	.00500	.00026	1.2658	.00009	.00129
#2	-.00099	2.4635	.00210	.01326	.00501	.00027	1.2670	.00017	.00128
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00659**	**.01640**	**5.5814**	**.71536**	**.59894**	**.00640**	**2.2089**	**.05430**	**.00138**
Stddev	.00026	.00061	.0030	.03337	.00063	.00043	.0052	.00007	.00004
%RSD	3.8913	3.7166	.05306	4.6650	.10543	6.6471	.23620	.13367	3.1628
#1	.00641	.01683	5.5793	.69176	.59849	.00670	2.2052	.05425	.00141
#2	.00677	.01597	5.5835	.73896	.59939	.00610	2.2126	.05435	.00135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.4546**	**.00327**	**.00901**	**5.903**	**.00173**	**.00115**	**2.2054**	**.00323**	**.01592**
Stddev	.0384	.00021	.00020	.008	.00090	.00035	.0327	.00032	.00009
%RSD	.59416	6.5485	2.1800	.1340	51.994	30.636	1.4837	10.056	.56043
#1	6.4274	.00311	.00887	5.908	.00237	.00139	2.1823	.00346	.01598
#2	6.4817	.00342	.00915	5.897	.00109	.00090	2.2286	.00300	.01586
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.14270**	**-.00200**	**.00825**	**.03666**
Stddev	.00036	.00099	.00036	.00060
%RSD	.25256	49.373	4.3726	1.6237
#1	.14296	-.00130	.00851	.03624
#2	.14245	-.00269	.00800	.03708
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4305.9**	**7378.7**	**66623.**	**10354.**
Stddev	9.1	8.3	105.	34.
%RSD	.21083	.11288	.15738	.33005
#1	4299.5	7372.8	66697.	10378.
#2	4312.3	7384.6	66549.	10330.

Sample Name: 480-30254-A-9-C PDS Acquired: 12/19/2012 20:07:57 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.09610	30.704	.48606	.45646	.42674	.48218	29.214	.47421	.51083
Stddev	.00208	.082	.00456	.00142	.00125	.00103	.009	.00140	.00285
%RSD	2.1638	.26725	.93917	.31013	.29214	.21309	.03172	.29490	.55840
#1	.09757	30.762	.48283	.45546	.42762	.48291	29.207	.47322	.50881
#2	.09463	30.646	.48929	.45746	.42586	.48146	29.220	.47520	.51284
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51545	.56259	47.939	22.623	24.561	.41906	33.672	.72733	.50087
Stddev	.00231	.00115	.005	.088	.029	.00017	.178	.00261	.00176
%RSD	.44846	.20367	.01014	.38690	.11983	.04125	.52942	.35935	.35229
#1	.51708	.56340	47.935	22.685	24.582	.41918	33.799	.72918	.49962
#2	.51381	.56178	47.942	22.561	24.540	.41894	33.546	.72548	.50211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	49.109	.50865	.53212	F 28.13	.47406	.46964	30.160	.42099	.46397
Stddev	.148	.00254	.00392	.12	.00475	.00404	.004	.00347	.00070
%RSD	.30143	.49957	.73587	.4247	1.0030	.86042	.01254	.82375	.15177
#1	49.213	.50685	.52935	28.04	.47070	.47250	30.157	.41854	.46447
#2	49.004	.51045	.53488	28.21	.47742	.46678	30.163	.42344	.46347
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	1.1401	.48255	.53152	.67542
Stddev	.0004	.00197	.00296	.00263
%RSD	.03148	.40897	.55599	.38906
#1	1.1398	.48115	.53361	.67728
#2	1.1403	.48394	.52943	.67356
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3910.4	7199.3	64793.	10431.
Stddev	12.9	13.5	205.	61.
%RSD	.33039	.18774	.31664	.58447
#1	3919.5	7208.8	64648.	10388.
#2	3901.3	7189.7	64938.	10474.

Sample Name: 480-30254-A-9-D MS Acquired: 12/19/2012 20:10:19 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.09033	37.415	.39566	.47031	.42038	.37979	26.551	.38497	.41831
Stddev	.00135	.000	.00234	.00062	.00323	.00079	.035	.00029	.00000
%RSD	1.4967	.00053	.59092	.13149	.76790	.20745	.13010	.07656	.00073
#1	.09129	37.415	.39732	.46987	.41810	.37923	26.527	.38476	.41831
#2	.08937	37.415	.39401	.47075	.42266	.38034	26.576	.38518	.41831
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.42529	.46515	50.102	23.065	24.744	.41434	30.249	.70260	.41044
Stddev	.00049	.00070	.017	.092	.159	.00014	.004	.00078	.00055
%RSD	.11581	.14990	.03316	.39814	.64158	.03370	.01249	.11172	.13385
#1	.42494	.46466	50.114	23.000	24.856	.41444	30.251	.70204	.41005
#2	.42564	.46565	50.090	23.129	24.632	.41424	30.246	.70315	.41083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	50.401	.42542	.45320	F 32.45	.37079	.37595	24.509	.41736	.47350
Stddev	.194	.00117	.00136	.04	.00105	.00083	.054	.00173	.00140
%RSD	.38443	.27527	.30024	.1194	.28295	.21966	.22143	.41407	.29583
#1	50.538	.42624	.45224	32.43	.37153	.37654	24.471	.41614	.47251
#2	50.264	.42459	.45416	32.48	.37005	.37537	24.547	.41858	.47449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	1.7423	.39719	.44287	.59350
Stddev	.0092	.00054	.00134	.00229
%RSD	.52747	.13560	.30170	.38563
#1	1.7358	.39757	.44192	.59188
#2	1.7488	.39681	.44381	.59512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3869.7	7168.8	65840.	10736.
Stddev	.1	1.7	46.	12.
%RSD	.00273	.02375	.06964	.10913
#1	3869.6	7170.0	65807.	10744.
#2	3869.8	7167.6	65872.	10727.

Sample Name: 480-30254-A-9-E MSD Acquired: 12/19/2012 20:13:12 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.09724	38.635	.39550	.46631	.44256	.38871	27.250	.38233	.41611
Stddev	.00141	1.003	.01562	.01790	.00920	.01202	.862	.01444	.01635
%RSD	1.4508	2.5971	3.9503	3.8387	2.0780	3.0917	3.1629	3.7781	3.9291
#1	.09824	37.926	.38445	.45366	.44906	.38021	26.640	.37212	.40455
#2	.09625	39.345	.40655	.47897	.43606	.39721	27.859	.39254	.42767
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.44373	.48817	51.940	23.715	24.926	.42364	31.618	.74091	.40635
Stddev	.00544	.00628	1.714	.695	.421	.01314	.415	.01022	.01453
%RSD	1.2265	1.2860	3.2995	2.9307	1.6885	3.1008	1.3124	1.3795	3.5762
#1	.44758	.49261	50.729	23.224	24.628	.41435	31.911	.74814	.39607
#2	.43988	.48373	53.152	24.207	25.224	.43293	31.324	.73369	.41662
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	50.683	.42320	.44736	F 32.84	.36518	.37296	23.523	.42517	.48534
Stddev	1.576	.01691	.01919	1.23	.01110	.01066	.702	.01743	.01492
%RSD	3.1098	3.9960	4.2889	3.736	3.0392	2.8589	2.9854	4.0987	3.0750
#1	49.569	.41124	.43379	31.97	.35733	.36542	23.027	.41285	.47478
#2	51.798	.43516	.46093	33.70	.37303	.38050	24.020	.43749	.49589
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	1.7303	.39005	.46105	.64121
Stddev	.0272	.01521	.00707	.01333
%RSD	1.5695	3.8983	1.5327	2.0793
#1	1.7495	.37930	.46604	.65064
#2	1.7111	.40080	.45605	.63178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3923.2	7271.5	64559.	10698.
Stddev	117.5	205.1	954.	231.
%RSD	2.9940	2.8202	1.4781	2.1545
#1	4006.2	7416.5	63884.	10861.
#2	3840.1	7126.5	65233.	10535.

Sample Name: 480-30276-E-3-C MSD Acquired: 12/19/2012 20:15:55 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05390**	**10.612**	**.23467**	**.29387**	**.26469**	**.21348**	**156.94**	**.22425**	**.22780**
Stddev	.00121	.050	.00061	.00074	.00046	.00060	.44	.00017	.00008
%RSD	2.2415	.47496	.26060	.25187	.17303	.28101	.27783	.07376	.03450
#1	.05475	10.576	.23510	.29335	.26501	.21390	156.64	.22437	.22785
#2	.05304	10.648	.23424	.29439	.26437	.21305	157.25	.22413	.22774
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.24547**	**.22119**	**13.518**	**17.706**	**26.711**	**.22050**	**140.99**	**.40248**	**.26024**
Stddev	.00155	.00074	.033	.013	.048	.00069	.63	.00219	.00051
%RSD	.63024	.33603	.24102	.07305	.17858	.31237	.44929	.54345	.19695
#1	.24656	.22172	13.541	17.715	26.677	.22002	141.44	.40403	.26060
#2	.24438	.22067	13.495	17.697	26.744	.22099	140.54	.40094	.25987
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**270.81**	**.23248**	**.22951**	F **141.6**	**.22732**	**.22673**	**14.970**	**.22354**	**1.3692**
Stddev	1.62	.00058	.00054	.2	.00259	.00349	.055	.00118	.0011
%RSD	.59920	.24734	.23574	.1346	1.1413	1.5398	.36827	.52948	.08283
#1	269.67	.23288	.22913	141.5	.22915	.22920	14.931	.22438	1.3684
#2	271.96	.23207	.22989	141.7	.22548	.22426	15.009	.22271	1.3700
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.21744**	**.21479**	**.22391**	**.30343**
Stddev	.00054	.00259	.00051	.00114
%RSD	.24956	1.2061	.22562	.37589
#1	.21782	.21296	.22355	.30424
#2	.21706	.21663	.22427	.30262
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3587.9**	**6715.5**	**61265.**	**10357.**
Stddev	.3	11.2	32.	23.
%RSD	.00883	.16649	.05232	.22268
#1	3588.1	6723.4	61242.	10373.
#2	3587.7	6707.6	61288.	10341.

Sample Name: 480-30276-E-4-A Acquired: 12/19/2012 20:18:24 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00233**	**.01369**	**.00117**	**.05114**	**.08601**	**-.00001**	**248.61**	**.00033**	**.00009**
Stddev	.00050	.00757	.00180	.00062	.00004	.00009	.97	.00002	.00006
%RSD	21.334	55.261	153.96	1.2115	.04655	860.74	.38950	6.1658	61.799
#1	-.00269	.01904	.00244	.05070	.08603	.00006	247.93	.00034	.00005
#2	-.00198	.00834	-.00010	.05158	.08598	-.00008	249.30	.00031	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00113**	**.00253**	**.89105**	**7.1423**	**11.211**	**.01199**	**84.118**	**.19408**	**.00357**
Stddev	.00054	.00021	.00640	.0165	.006	.00055	.048	.00019	.00017
%RSD	47.593	8.2894	.71872	.23120	.05510	4.5911	.05733	.09768	4.7132
#1	.00075	.00238	.89558	7.1306	11.215	.01160	84.084	.19395	.00346
#2	.00150	.00268	.88653	7.1539	11.206	.01238	84.152	.19421	.00369
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**243.57**	**-.00005**	**.00017**	F **182.1**	**-.00218**	**.00096**	**5.6274**	**-.00042**	**1.7777**
Stddev	.12	.00045	.00060	.4	.00046	.00219	.0248	.00039	.0008
%RSD	.05096	834.65	365.91	.2269	21.182	227.69	.44093	93.147	.04462
#1	243.48	-.00037	-.00026	182.3	-.00251	.00251	5.6098	-.00014	1.7783
#2	243.66	.00026	.00059	181.8	-.00185	-.00059	5.6449	-.00070	1.7772
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00186**	**-.00142**	**.00072**	**.00149**
Stddev	.00047	.00278	.00094	.00009
%RSD	25.341	195.33	131.62	6.2219
#1	.00219	-.00339	.00138	.00155
#2	.00152	.00054	.00005	.00142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3593.4**	**6595.4**	**60972.**	**10414.**
Stddev	7.5	10.7	158.	10.
%RSD	.20888	.16284	.25883	.09297
#1	3598.7	6603.0	61083.	10407.
#2	3588.1	6587.8	60860.	10421.

Sample Name: 480-30276-E-5-A Acquired: 12/19/2012 20:21:06 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00115**	**.03572**	**-.00007**	**.03517**	**.08580**	**.00004**	**339.55**	**.00014**	**-.00004**
Stddev	.00017	.00270	.00404	.00013	.00013	.00001	3.00	.00009	.00002
%RSD	14.333	7.5643	6093.2	.36832	.15613	36.563	.88386	63.614	54.996
#1	-.00127	.03763	.00279	.03508	.08589	.00005	337.43	.00020	-.00003
#2	-.00104	.03381	-.00293	.03526	.08570	.00003	341.68	.00008	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00103**	**.00225**	**.00193**	**15.301**	**21.726**	**.04418**	**22.355**	**.02521**	**.00313**
Stddev	.00040	.00054	.00083	.059	.161	.00082	.003	.00014	.00029
%RSD	39.093	24.201	42.788	.38839	.73890	1.8541	.01317	.55232	9.3072
#1	.00131	.00186	.00252	15.343	21.839	.04360	22.353	.02511	.00333
#2	.00074	.00263	.00135	15.259	21.612	.04476	22.357	.02531	.00292
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**141.32**	**.00033**	**-.00076**	F **267.7**	**-.00054**	**.00227**	**3.1439**	**-.00033**	**2.7170**
Stddev	.52	.00084	.00010	.6	.00135	.00069	.0032	.00032	.0069
%RSD	.36958	252.01	12.905	.2091	251.48	30.378	.10220	95.610	.25482
#1	140.96	.00093	-.00082	268.1	.00042	.00179	3.1416	-.00056	2.7121
#2	141.69	-.00026	-.00069	267.3	-.00149	.00276	3.1462	-.00011	2.7219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00278**	**-.00060**	**.00061**	**.00003**
Stddev	.00019	.00168	.00033	.00032
%RSD	6.8343	281.94	54.343	1204.6
#1	.00264	.00059	.00084	.00025
#2	.00291	-.00179	.00038	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3657.4**	**6635.7**	**61660.**	**10432.**
Stddev	6.5	12.4	15.	68.
%RSD	.17893	.18624	.02477	.65461
#1	3652.7	6627.0	61670.	10480.
#2	3662.0	6644.5	61649.	10384.

Sample Name: 480-30276-E-6-A Acquired: 12/19/2012 20:23:33 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00183**	**.76620**	**.00022**	**.02292**	**.05953**	**.00006**	**269.14**	**.00007**	**.00168**
Stddev	.00032	.01622	.00177	.00019	.00000	.00001	2.21	.00015	.00008
%RSD	17.702	2.1165	818.74	.84294	.00645	22.231	.81977	215.07	4.6735
#1	-.00160	.75473	-.00103	.02279	.05953	.00007	270.70	.00018	.00173
#2	-.00206	.77766	.00146	.02306	.05954	.00005	267.58	-.00004	.00162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00807**	**.00405**	**1.3349**	**13.798**	**18.689**	**.04157**	**32.479**	**.05754**	**.00375**
Stddev	.00083	.00016	.0048	.037	.094	.00027	.015	.00027	.00002
%RSD	10.270	4.0538	.35853	.26518	.50130	.65745	.04600	.46164	.61740
#1	.00748	.00394	1.3383	13.772	18.755	.04176	32.489	.05773	.00374
#2	.00865	.00417	1.3315	13.824	18.623	.04137	32.468	.05736	.00377
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**105.45**	**.00241**	**.00439**	F **240.2**	**-.00050**	**.00213**	**6.8903**	**-.00048**	**2.7548**
Stddev	.67	.00033	.00039	.6	.00105	.00272	.0071	.00067	.0112
%RSD	.63352	13.778	8.9624	.2672	210.77	127.93	.10319	139.74	.40667
#1	104.98	.00264	.00467	240.7	-.00124	.00020	6.8853	-.00001	2.7469
#2	105.92	.00217	.00411	239.8	.00024	.00406	6.8953	-.00095	2.7627
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.02380**	**-.00094**	**.00206**	**.02025**
Stddev	.00059	.00104	.00015	.00023
%RSD	2.4866	110.55	7.4835	1.1340
#1	.02422	-.00021	.00217	.02009
#2	.02339	-.00167	.00195	.02042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3729.5**	**6719.7**	**62448.**	**10449.**
Stddev	6.7	20.3	74.	17.
%RSD	.18011	.30275	.11794	.15976
#1	3734.3	6734.1	62500.	10437.
#2	3724.8	6705.3	62396.	10460.

Sample Name: 480-30276-E-7-A Acquired: 12/19/2012 20:25:55 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00165**	**.37872**	**.01001**	**.01850**	**.57704**	**-.00006**	**819.22**	**.00034**	**.00063**
Stddev	.00002	.01204	.00056	.00017	.00556	.00006	23.51	.00004	.00010
%RSD	1.0715	3.1800	5.5837	.94192	.96285	109.52	2.8695	12.279	15.332
#1	-.00164	.38724	.00961	.01838	.58097	-.00010	835.84	.00031	.00070
#2	-.00166	.37021	.01040	.01862	.57311	-.00001	802.60	.00037	.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00221**	**.00343**	**.01881**	**16.190**	**24.136**	**.06906**	**.12062**	**.00120**	**.04672**
Stddev	.00065	.00019	.00133	.159	1.012	.00028	.00332	.00013	.00025
%RSD	29.697	5.6505	7.0458	.98235	4.1917	.40031	2.7499	10.898	.54137
#1	.00267	.00329	.01787	16.302	24.851	.06925	.12296	.00129	.04655
#2	.00174	.00356	.01974	16.077	23.420	.06886	.11827	.00111	.04690
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**100.57**	**.01876**	**-.00295**	F **31.39**	**.00199**	**.01005**	**.35835**	**-.00022**	**3.6398**
Stddev	1.03	.00001	.00055	.24	.00187	.00986	.00006	.00015	.0356
%RSD	1.0230	.07543	18.759	.7583	94.237	98.136	.01603	68.696	.97740
#1	101.30	.01875	-.00256	31.56	.00066	.00307	.35831	-.00011	3.6649
#2	99.845	.01877	-.00335	31.22	.00332	.01702	.35839	-.00032	3.6146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00498**	**-.00464**	**.00407**	**.00134**
Stddev	.00082	.00157	.00016	.00035
%RSD	16.406	33.847	3.8812	26.037
#1	.00440	-.00353	.00395	.00109
#2	.00555	-.00575	.00418	.00159
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3450.6**	**6390.4**	**59594.**	**10440.**
Stddev	15.3	22.1	233.	145.
%RSD	.44331	.34530	.39077	1.3858
#1	3439.8	6374.8	59759.	10337.
#2	3461.4	6406.0	59430.	10542.

Sample Name: CCV Acquired: 12/19/2012 20:28:23 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49220	23.767	.51397	.50770	.47249	.48099	24.504	.50907	.50550	.51101	.49946	23.333	24.716
Stddev	.00111	.212	.00617	.00314	.00325	.00409	.240	.00366	.00356	.00033	.00006	.235	.215
%RSD	.22462	.89226	1.2002	.61941	.68828	.84979	.98054	.71985	.70509	.06476	.01176	1.0054	.87052
#1	.49299	23.917	.50961	.50548	.47479	.48388	24.674	.50648	.50298	.51077	.49942	23.499	24.868
#2	.49142	23.617	.51833	.50992	.47019	.47810	24.334	.51166	.50802	.51124	.49950	23.167	24.563
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.656	.47410	23.713	.47960	.53052	25.064	.50317	.51921	24.36	.50148	.51024	24.130	.49961
Stddev	.179	.00463	.060	.00133	.00433	.274	.00486	.00500	.13	.00275	.00256	.256	.00345
%RSD	.72588	.97752	.25303	.27687	.81535	1.0914	.96576	.96273	.5410	.54774	.50188	1.0596	.69021
#1	24.783	.47738	23.756	.48054	.52746	25.257	.49973	.51568	24.26	.49954	.50843	24.311	.49718
#2	24.530	.47082	23.671	.47866	.53358	24.871	.50661	.52275	24.45	.50342	.51205	23.949	.50205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	.49512	.49069	.51526	.51948	.54545
Stddev	.00626	.00034	.00384	.00028	.00120
%RSD	1.2638	.06978	.74556	.05400	.22085
#1	.49955	.49045	.51254	.51928	.54460
#2	.49070	.49093	.51797	.51967	.54630
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4003.9	7035.5	64590.	10464.
Stddev	26.3	42.2	82.	68.
%RSD	.65573	.60031	.12683	.65167
#1	4022.4	7065.4	64648.	10416.
#2	3985.3	7005.6	64532.	10513.

Sample Name: CCB Acquired: 12/19/2012 20:30:47 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00004	-.01525	.00069	.00027	.00007	.00010	.03036	-.00002	-.00002	.00001	.00211	.00453	-.00755
Stddev	.00061	.00389	.00046	.00046	.00000	.00000	.00213	.00008	.00005	.00032	.00025	.00093	.00719
%RSD	1672.8	25.531	65.902	172.37	.16449	2.4255	7.0100	400.02	205.71	4119.7	11.918	20.505	95.344
#1	.00047	-.01250	.00102	.00060	.00007	.00010	.03187	-.00008	-.00006	.00023	.00229	.00519	-.01263
#2	-.00040	-.01801	.00037	-.00006	.00007	.00010	.02886	.00004	.00001	-.00022	.00193	.00387	-.00246
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00371	-.00143	-.00295	.00004	-.00016	.03192	.00009	-.00034	F .0294	.00061	-.00153	.00364	.00012
Stddev	.00016	.00021	.00198	.00018	.00006	.01191	.00003	.00001	.0003	.00017	.00002	.00318	.00039
%RSD	4.2901	14.317	67.295	433.68	34.742	37.313	30.900	3.8470	1.125	28.267	1.1591	87.236	322.35
#1	.00360	-.00129	-.00154	-.00008	-.00012	.04035	.00012	-.00034	.0292	.00049	-.00152	.00589	-.00015
#2	.00382	-.00158	-.00435	.00017	-.00020	.02350	.00007	-.00033	.0296	.00074	-.00155	.00139	.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									.0030				
Low Limit									-.0040				

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00004	-.00023	-.00125	-.00015	.00062
Stddev	.00007	.00028	.00103	.00036	.00020
%RSD	176.57	121.23	82.959	244.37	32.975
#1	.00009	-.00043	-.00198	.00011	.00076
#2	-.00001	-.00003	-.00052	-.00040	.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4339.6	7165.0	65754.	10512.
Stddev	7.3	23.1	129.	16.
%RSD	.16809	.32272	.19595	.14874
#1	4344.8	7181.3	65663.	10523.
#2	4334.5	7148.6	65845.	10501.

Sample Name: 480-30276-E-8-A Acquired: 12/19/2012 20:33:20 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00094**	**.66771**	**.00510**	**.01305**	**.98822**	**.00000**	**687.81**	**.00023**	**-.00041**
Stddev	.00041	.01259	.00309	.00010	.00355	.00010	2.73	.00020	.00001
%RSD	44.058	1.8853	60.520	.74434	.35956	2796.4	.39691	88.596	1.6579
#1	-.00123	.65881	.00729	.01298	.98571	.00008	685.88	.00037	-.00041
#2	-.00064	.67662	.00292	.01312	.99074	-.00007	689.74	.00009	-.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00112**	**.00345**	**.00194**	**29.014**	**39.491**	**.16328**	**-.00492**	**-.00023**	**.41499**
Stddev	.00026	.00042	.00080	.072	.569	.00053	.00297	.00009	.00179
%RSD	23.048	12.077	41.420	.24950	1.4397	.32626	60.412	36.473	.43186
#1	.00130	.00315	.00137	28.962	39.089	.16366	-.00702	-.00017	.41626
#2	.00093	.00374	.00251	29.065	39.893	.16290	-.00282	-.00029	.41373
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**83.698**	**.01232**	**-.00171**	F **23.26**	**.00253**	**.01063**	**.55085**	**.00008**	**6.1843**
Stddev	.556	.00048	.00156	.04	.00043	.00033	.00356	.00021	.0392
%RSD	.66389	3.9301	91.719	.1884	16.806	3.0785	.64580	251.41	.63397
#1	83.305	.01266	-.00281	23.29	.00223	.01040	.54834	.00023	6.1566
#2	84.091	.01197	-.00060	23.22	.00283	.01086	.55337	-.00006	6.2121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00473**	**-.00261**	**.00257**	**.00108**
Stddev	.00006	.00095	.00068	.00016
%RSD	1.2232	36.431	26.538	14.699
#1	.00469	-.00194	.00209	.00096
#2	.00477	-.00328	.00306	.00119
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3496.9**	**6429.6**	**58801.**	**10169.**
Stddev	1.3	11.0	161.	22.
%RSD	.03845	.17093	.27355	.21273
#1	3496.0	6421.8	58687.	10185.
#2	3497.9	6437.4	58915.	10154.

Sample Name: 480-30276-E-9-A Acquired: 12/19/2012 20:36:01 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00230**	**.02819**	**.00046**	**.05304**	**.12836**	**-.00016**	**717.63**	**.00031**	**.00010**
Stddev	.00001	.00829	.00103	.00098	.00080	.00006	7.77	.00017	.00011
%RSD	.52354	29.417	225.84	1.8528	.62389	39.542	1.0825	54.935	111.87
#1	-.00230	.03406	-.00027	.05235	.12779	-.00021	712.14	.00043	.00017
#2	-.00229	.02233	.00119	.05374	.12893	-.00012	723.12	.00019	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00122**	**.00324**	**.37523**	**4.4258**	**7.1597**	**.01329**	**68.657**	**.14935**	**.00077**
Stddev	.00043	.00021	.00702	.0538	.0608	.00061	.424	.00126	.00024
%RSD	35.212	6.5524	1.8702	1.2147	.84894	4.6176	.61826	.84666	31.769
#1	.00152	.00309	.37027	4.3878	7.1167	.01285	68.357	.14845	.00094
#2	.00091	.00339	.38019	4.4638	7.2027	.01372	68.957	.15024	.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**151.47**	**.00044**	**-.00003**	F **250.4**	**.00071**	**-.00066**	**5.4319**	**-.00016**	**2.9981**
Stddev	1.83	.00012	.00027	.2	.00021	.00017	.0519	.00001	.0220
%RSD	1.2054	26.608	896.15	.0623	29.929	25.670	.95622	6.5812	.73463
#1	150.18	.00036	-.00022	250.5	.00086	-.00054	5.3952	-.00015	2.9825
#2	152.77	.00052	.00016	250.3	.00056	-.00077	5.4686	-.00017	3.0137
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00530**	**-.00264**	**.00077**	**.00148**
Stddev	.00022	.00453	.00010	.00046
%RSD	4.1533	171.51	13.366	31.149
#1	.00514	.00056	.00085	.00181
#2	.00545	-.00584	.00070	.00115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3419.6**	**6267.9**	**57725.**	**9903.5**
Stddev	.2	2.1	117.	84.7
%RSD	.00602	.03299	.20222	.85545
#1	3419.5	6269.4	57807.	9963.4
#2	3419.8	6266.4	57642.	9843.6

Sample Name: 480-30276-E-10-A Acquired: 12/19/2012 20:38:22 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00229**	**.00920**	**.00060**	**.06830**	**.14013**	**-.00017**	**887.22**	**.00027**	**.00006**
Stddev	.00105	.00673	.00178	.00004	.00109	.00001	.49	.00008	.00011
%RSD	45.776	73.189	296.19	.06478	.77829	6.5984	.05569	30.288	178.82
#1	-.00303	.01396	-.00066	.06827	.13936	-.00017	886.87	.00032	.00014
#2	-.00155	.00444	.00186	.06833	.14090	-.00018	887.57	.00021	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00120**	**.00549**	**.06312**	**5.3165**	**9.0944**	**.02354**	**74.188**	**.25487**	**.00072**
Stddev	.00021	.00005	.00281	.0539	.0327	.00001	.571	.00281	.00024
%RSD	17.682	.84988	4.4456	1.0138	.35994	.04774	.77014	1.1018	34.134
#1	.00135	.00545	.06511	5.2784	9.1175	.02354	73.783	.25288	.00089
#2	.00105	.00552	.06114	5.3546	9.0712	.02355	74.592	.25685	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**189.19**	**.00057**	**-.00004**	F **224.3**	**.00091**	**.00073**	**5.5311**	**-.00053**	**3.2942**
Stddev	.98	.00007	.00113	.1	.00064	.00558	.0123	.00039	.0066
%RSD	.51996	11.928	2611.3	.0251	69.993	760.40	.22248	73.422	.19890
#1	188.50	.00062	-.00084	224.3	.00046	.00468	5.5224	-.00026	3.2896
#2	189.89	.00052	.00075	224.3	.00136	-.00321	5.5398	-.00081	3.2988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00595**	**-.00363**	**.00093**	**.00116**
Stddev	.00032	.00121	.00003	.00037
%RSD	5.4355	33.229	3.7562	32.143
#1	.00618	-.00278	.00090	.00142
#2	.00572	-.00448	.00095	.00090
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3308.0**	**6126.1**	**56671.**	**9930.4**
Stddev	.8	3.0	3.	15.2
%RSD	.02491	.04975	.00460	.15271
#1	3307.4	6128.2	56673.	9919.7
#2	3308.6	6123.9	56669.	9941.2

Sample Name: 480-30277-E-1-A Acquired: 12/19/2012 20:40:55 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00027	.10345	.00524	.07472	.01610	-.00001	43.326	.00012	.00035
Stddev	.00026	.00848	.00064	.00031	.00004	.00008	.123	.00002	.00007
%RSD	98.351	8.1992	12.317	.41563	.26175	1300.2	.28459	19.764	20.281
#1	.00008	.09746	.00478	.07494	.01613	.00005	43.413	.00013	.00030
#2	.00045	.10945	.00569	.07450	.01607	-.00006	43.239	.00010	.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00008	.00279	.26478	15.122	21.574	.00048	3.5962	.00636	.19840
Stddev	.00005	.00003	.00207	.045	.098	.00079	.0162	.00020	.00122
%RSD	62.613	1.0583	.78020	.29662	.45455	164.58	.44971	3.1403	.61354
#1	.00012	.00281	.26624	15.154	21.505	.00104	3.6076	.00650	.19926
#2	.00004	.00277	.26332	15.091	21.643	-.00008	3.5848	.00622	.19754
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	211.00	.00722	.00054	F 23.90	-.00082	.00125	2.5693	-.00024	.68755
Stddev	.06	.00073	.00129	.02	.00129	.00041	.0187	.00002	.00246
%RSD	.02809	10.137	237.34	.0733	158.48	32.614	.72719	9.8418	.35780
#1	210.96	.00774	-.00037	23.91	-.00173	.00096	2.5826	-.00025	.68929
#2	211.04	.00671	.00145	23.89	.00010	.00154	2.5561	-.00022	.68581
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	.00097	-.00104	.00061	.00387
Stddev	.00003	.00192	.00043	.00007
%RSD	3.2324	185.69	69.937	1.8425
#1	.00094	.00032	.00092	.00392
#2	.00099	-.00240	.00031	.00382
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3826.0	6824.9	61628.	10388.
Stddev	8.6	14.8	59.	38.
%RSD	.22593	.21654	.09547	.36451
#1	3819.8	6814.4	61670.	10415.
#2	3832.1	6835.3	61587.	10361.

Sample Name: 480-30277-E-2-A Acquired: 12/19/2012 20:43:22 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00172**	**1.3054**	**.00352**	**.02097**	**.21700**	**.00005**	**269.38**	**.00014**	**.00108**
Stddev	.00025	.0018	.00145	.00061	.00079	.00002	1.18	.00007	.00007
%RSD	14.288	.13792	41.272	2.9256	.36531	47.455	.43722	49.571	6.7417
#1	-.00155	1.3041	.00455	.02140	.21644	.00003	270.21	.00019	.00102
#2	-.00190	1.3066	.00249	.02054	.21756	.00007	268.54	.00009	.00113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01270**	**.03181**	**.11249**	**17.372**	**27.717**	**.02841**	**.17615**	**.00242**	**.27685**
Stddev	.00000	.00031	.00080	.051	.083	.00000	.00599	.00003	.00208
%RSD	.00048	.98650	.71022	.29347	.30086	.00533	3.4002	1.1953	.75149
#1	.01270	.03159	.11305	17.336	27.658	.02841	.17191	.00244	.27832
#2	.01270	.03203	.11192	17.409	27.776	.02841	.18038	.00240	.27538
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**352.29**	**.03340**	**.00073**	**7.415**	**.00043**	**.00081**	**.92773**	**-.00015**	**1.5746**
Stddev	2.64	.00033	.00019	.046	.00053	.00010	.02091	.00064	.0061
%RSD	.74807	.98124	25.715	.6168	123.36	12.428	2.2542	411.34	.38975
#1	350.43	.03363	.00087	7.448	.00005	.00074	.91294	-.00060	1.5703
#2	354.15	.03317	.00060	7.383	.00080	.00088	.94252	.00030	1.5789
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00238**	**-.00387**	**.00455**	**.06705**
Stddev	.00031	.00060	.00076	.00091
%RSD	13.163	15.416	16.749	1.3558
#1	.00216	-.00345	.00401	.06640
#2	.00260	-.00429	.00509	.06769
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3533.2**	**6530.1**	**59165.**	**10113.**
Stddev	16.9	26.3	79.	32.
%RSD	.47924	.40309	.13316	.31434
#1	3521.3	6511.5	59221.	10136.
#2	3545.2	6548.7	59109.	10091.

Sample Name: 480-30277-E-3-A Acquired: 12/19/2012 20:45:52 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00085	.87599	.03372	.03229	.04613	.00004	21.338	.00067	.00090
Stddev	.00007	.00196	.00021	.00038	.00027	.00000	.131	.00022	.00012
%RSD	8.8174	.22384	.61518	1.1750	.58898	2.5659	.61257	33.187	13.016
#1	-.00090	.87738	.03387	.03202	.04632	.00004	21.431	.00083	.00081
#2	-.00079	.87461	.03357	.03255	.04594	.00004	21.246	.00051	.00098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00195	.00695	1.3684	16.935	25.543	.00978	.07062	.01206	.32514
Stddev	.00093	.00051	.0159	.024	.278	.00047	.00021	.00004	.00179
%RSD	47.551	7.3165	1.1618	.14302	1.0870	4.8541	.29084	.36004	.55179
#1	.00261	.00731	1.3797	16.952	25.739	.01011	.07076	.01209	.32640
#2	.00130	.00659	1.3572	16.918	25.347	.00944	.07047	.01203	.32387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	297.42	.03205	.02291	5.247	-.00037	.00195	5.1878	.00011	.46470
Stddev	.91	.00021	.00041	.002	.00059	.00213	.0424	.00012	.00246
%RSD	.30550	.67001	1.7885	.0362	159.20	109.36	.81770	107.48	.52892
#1	298.06	.03190	.02320	5.246	-.00078	.00044	5.2178	.00003	.46644
#2	296.78	.03221	.02262	5.248	.00005	.00345	5.1578	.00019	.46296
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	.02932	-.00124	.05279	.06803
Stddev	.00023	.00085	.00049	.00024
%RSD	.77026	68.698	.93449	.35107
#1	.02916	-.00064	.05314	.06786
#2	.02948	-.00184	.05244	.06819
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3741.2	6805.2	61731.	10287.
Stddev	1.7	2.7	161.	53.
%RSD	.04455	.03936	.26008	.51860
#1	3740.0	6803.3	61617.	10250.
#2	3742.4	6807.1	61844.	10325.

Sample Name: 480-30277-E-4-A Acquired: 12/19/2012 20:48:21 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00091**	**.28828**	**.02818**	**.02777**	**.01077**	**.00002**	**29.971**	**.00043**	**.00010**
Stddev	.00044	.00115	.00054	.00044	.00007	.00012	.135	.00004	.00016
%RSD	48.606	.39775	1.9188	1.5881	.67248	597.68	.44944	8.8109	153.44
#1	-.00060	.28747	.02856	.02746	.01082	.00010	29.876	.00045	-.00001
#2	-.00123	.28909	.02780	.02808	.01072	-.00006	30.066	.00040	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.00221**	**.09818**	**19.181**	**27.420**	**.00853**	**.01113**	**.00055**	**.21886**
Stddev	.00073	.00024	.00032	.091	.054	.00080	.00037	.00006	.00010
%RSD	861.32	10.958	.32087	.47465	.19834	9.4261	3.2890	10.652	.04669
#1	-.00060	.00204	.09841	19.116	27.459	.00910	.01139	.00059	.21893
#2	.00043	.00238	.09796	19.245	27.382	.00796	.01087	.00050	.21879
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**251.03**	**.00703**	**.00115**	F **13.75**	**-.00003**	**-.00122**	**7.6560**	**-.00017**	**1.0152**
Stddev	1.23	.00012	.00096	.02	.00124	.00362	.0495	.00010	.0024
%RSD	.49077	1.7725	82.918	.1226	3702.4	297.17	.64653	59.881	.23111
#1	250.15	.00694	.00183	13.73	-.00091	.00134	7.6210	-.00010	1.0136
#2	251.90	.00712	.00048	13.76	.00084	-.00377	7.6910	-.00024	1.0169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00133**	**.00006**	**.00213**	**.00598**
Stddev	.00078	.00097	.00050	.00005
%RSD	58.333	1731.1	23.581	.81283
#1	.00188	.00074	.00177	.00595
#2	.00078	-.00063	.00248	.00602
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3800.2**	**6831.6**	**61442.**	**10371.**
Stddev	8.5	10.3	322.	38.
%RSD	.22415	.15110	.52434	.36676
#1	3806.3	6838.9	61215.	10398.
#2	3794.2	6824.3	61670.	10344.

Sample Name: 480-30277-E-5-A Acquired: 12/19/2012 20:50:50 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00147**	**.41161**	**.01144**	**.02453**	**.15687**	**.00007**	**68.584**	**.00016**	**.00006**
Stddev	.00100	.02447	.00131	.00044	.00038	.00001	.478	.00000	.00004
%RSD	67.976	5.9458	11.458	1.8020	.24470	13.091	.69635	2.7393	66.704
#1	-.00076	.39430	.01237	.02484	.15714	.00008	68.247	.00016	.00003
#2	-.00218	.42891	.01051	.02422	.15659	.00006	68.922	.00015	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00082**	**.00293**	**.00876**	**18.998**	**25.778**	**.04577**	**.01278**	**.00005**	**.19182**
Stddev	.00002	.00015	.00131	.104	.112	.00018	.00349	.00000	.00028
%RSD	2.7440	5.1634	14.957	.54777	.43317	.40384	27.357	.61729	.14782
#1	.00080	.00303	.00783	18.925	25.699	.04564	.01525	.00005	.19203
#2	.00083	.00282	.00969	19.072	25.857	.04590	.01030	.00005	.19162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**182.85**	**.00466**	**.00080**	**6.689**	**.00048**	**.00169**	**3.3475**	**-.00093**	**1.1998**
Stddev	1.48	.00005	.00004	.007	.00158	.00122	.0231	.00012	.0078
%RSD	.81102	1.0836	4.7588	.1068	328.38	71.983	.69063	12.997	.64687
#1	181.80	.00469	.00083	6.684	-.00064	.00083	3.3311	-.00085	1.1943
#2	183.90	.00462	.00077	6.694	.00160	.00256	3.3638	-.00102	1.2053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00035**	**-.00079**	**.00484**	**.00176**
Stddev	.00014	.00021	.00091	.00056
%RSD	41.002	26.856	18.773	32.024
#1	.00025	-.00064	.00548	.00216
#2	.00045	-.00094	.00419	.00136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3824.0**	**6857.1**	**62063.**	**10315.**
Stddev	.6	8.0	253.	8.
%RSD	.01566	.11636	.40777	.07588
#1	3823.6	6851.5	61884.	10321.
#2	3824.4	6862.7	62242.	10310.

Sample Name: 480-30277-E-6-A Acquired: 12/19/2012 20:53:13 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00134**	**.47102**	**.01500**	**.03013**	**.00654**	**-.00008**	**10.834**	**.00045**	**.00054**
Stddev	.00015	.01254	.00093	.00027	.00006	.00002	.013	.00000	.00008
%RSD	11.407	2.6613	6.1842	.91045	.90648	23.787	.12262	.64984	14.348
#1	-.00144	.47988	.01566	.03033	.00650	-.00010	10.825	.00045	.00060
#2	-.00123	.46215	.01435	.02994	.00658	-.00007	10.844	.00045	.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00081**	**.00318**	**.48901**	**15.702**	**21.951**	**.00049**	**.23136**	**.00426**	**.22899**
Stddev	.00024	.00068	.00450	.059	.147	.00163	.00415	.00006	.00109
%RSD	29.655	21.408	.92001	.37845	.66774	331.53	1.7946	1.5121	.47714
#1	.00064	.00270	.49220	15.744	22.055	.00164	.22843	.00421	.22977
#2	.00099	.00366	.48583	15.660	21.847	-.00066	.23430	.00430	.22822
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**212.09**	**.02053**	**.01786**	**7.417**	**-.00155**	**.00121**	**11.499**	**-.00034**	**.19927**
Stddev	.73	.00027	.00030	.026	.00185	.00017	.030	.00050	.00046
%RSD	.34236	1.3382	1.6611	.3559	119.53	13.690	.26492	146.32	.22909
#1	211.58	.02034	.01765	7.435	-.00024	.00133	11.477	.00001	.19959
#2	212.61	.02073	.01807	7.398	-.00285	.00109	11.520	-.00069	.19895
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00707**	**-.00067**	**.00528**	**.02843**
Stddev	.00016	.00235	.00019	.00012
%RSD	2.2864	349.77	3.5883	.41713
#1	.00695	.00099	.00515	.02835
#2	.00718	-.00234	.00541	.02852
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3831.4**	**6869.3**	**61817.**	**10410.**
Stddev	18.3	32.0	484.	9.
%RSD	.47668	.46539	.78268	.08208
#1	3818.5	6846.7	62159.	10404.
#2	3844.3	6892.0	61475.	10416.

Sample Name: 480-30281-B-1-A Acquired: 12/19/2012 20:55:35 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00067	.01445	-.00059	.09069	.09786	.00000	91.568	.00005	.00028
Stddev	.00020	.00318	.00193	.00112	.00007	.00007	.377	.00002	.00014
%RSD	29.603	21.989	326.34	1.2325	.06857	2944.8	.41117	38.153	48.225
#1	-.00081	.01220	-.00196	.08990	.09791	.00005	91.834	.00006	.00019
#2	-.00053	.01670	.00077	.09148	.09782	-.00005	91.301	.00004	.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.18068	.00236	.05568	5.4506	7.7054	.01079	20.775	.39804	-.00003
Stddev	.00052	.00054	.00034	.0163	.0103	.00027	.004	.00058	.00009
%RSD	.28532	22.684	.61183	.29932	.13321	2.4957	.02089	.14635	302.37
#1	.18104	.00274	.05592	5.4621	7.7126	.01060	20.778	.39763	.00003
#2	.18031	.00199	.05543	5.4390	7.6981	.01098	20.772	.39845	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	124.85	.00480	.00051	F 97.58	.00081	-.00192	7.2853	-.00082	.70495
Stddev	.79	.00027	.00158	.11	.00105	.00064	.0451	.00035	.00174
%RSD	.63443	5.6997	308.20	.1164	130.14	33.158	.61838	42.114	.24746
#1	125.41	.00461	-.00060	97.50	.00006	-.00147	7.3171	-.00058	.70618
#2	124.29	.00499	.00162	97.66	.00155	-.00237	7.2534	-.00107	.70371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	.00068	-.00335	.00017	.00205
Stddev	.00095	.00131	.00010	.00025
%RSD	139.62	39.057	57.268	12.211
#1	.00135	-.00243	.00010	.00188
#2	.00001	-.00428	.00023	.00223
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3863.4	6838.5	62951.	10357.
Stddev	.1	4.6	65.	44.
%RSD	.00381	.06764	.10278	.42352
#1	3863.5	6841.8	62997.	10326.
#2	3863.3	6835.2	62906.	10388.

Sample Name: CCV Acquired: 12/19/2012 20:57:43 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50913	24.571	.50250	.50234	.49595	.48997	25.053	.50600	.50241	.51182	.50828	23.615	25.138
Stddev	.00055	.732	.00184	.00301	.01349	.01329	.731	.00232	.00261	.00069	.00095	.734	.735
%RSD	.10736	2.9807	.36571	.60007	2.7199	2.7127	2.9179	.45833	.51942	.13554	.18733	3.1065	2.9253
#1	.50875	25.089	.50120	.50021	.50549	.49937	25.570	.50436	.50056	.51133	.50761	24.134	25.658
#2	.50952	24.053	.50380	.50448	.48641	.48057	24.537	.50764	.50425	.51232	.50896	23.096	24.619
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.727	.49264	24.580	.50483	.51752	25.274	.49816	.50727	24.18	.50479	.50299	24.728	.51034
Stddev	.554	.01327	.075	.00111	.00291	.707	.00200	.00070	.09	.00232	.00120	.717	.00087
%RSD	2.1520	2.6940	.30386	.21980	.56152	2.7976	.40186	.13701	.3579	.46039	.23765	2.9011	.17096
#1	26.118	.50202	24.633	.50562	.51547	25.774	.49674	.50678	24.12	.50315	.50215	25.235	.50972
#2	25.335	.48325	24.528	.50405	.51958	24.774	.49957	.50776	24.24	.50643	.50384	24.221	.51095
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	.50246	.49836	.50313	.51929	.53450
Stddev	.01507	.00093	.00082	.00268	.00182
%RSD	2.9985	.18698	.16214	.51637	.34087
#1	.51311	.49770	.50255	.52119	.53579
#2	.49180	.49901	.50370	.51739	.53322
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3974.8	7024.7	63424.	10104.
Stddev	14.0	29.2	217.	259.
%RSD	.35279	.41620	.34210	2.5668
#1	3984.7	7045.4	63271.	9920.4
#2	3964.9	7004.1	63577.	10287.

Sample Name: CCB Acquired: 12/19/2012 20:59:52 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00074**	**.00285**	**-.00156**	**-.00011**	**.00006**	**.00013**	**.01101**	**.00004**	**-.00007**	**-.00026**	**.00089**	**.00100**	**.00661**
Stddev	.00096	.00641	.00113	.00001	.00000	.00004	.00169	.00001	.00006	.00004	.00004	.00265	.00128
%RSD	129.64	224.90	72.277	10.701	1.9645	34.777	15.307	20.025	91.947	15.359	4.6565	264.23	19.400
#1	-.00006	.00738	-.00076	-.00011	.00006	.00016	.01220	.00003	-.00002	-.00029	.00092	.00287	.00752
#2	-.00141	-.00168	-.00235	-.00012	.00006	.00010	.00982	.00005	-.00011	-.00023	.00086	-.00087	.00571
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00495**	**-.00005**	**-.00208**	**.00006**	**.00030**	**.04536**	**-.00022**	**.00084**	F **.0211**	**.00186**	**-.00131**	**.00749**	**-.00011**
Stddev	.00091	.00016	.00291	.00001	.00033	.00435	.00014	.00045	.0008	.00132	.00061	.00997	.00025
%RSD	18.453	290.83	139.81	13.926	108.14	9.5998	61.675	53.409	3.630	70.923	46.454	132.99	225.17
#1	.00560	-.00016	-.00002	.00005	.00007	.04229	-.00032	.00116	.0216	.00093	-.00174	.00045	.00007
#2	.00430	.00006	-.00414	.00006	.00053	.04844	-.00012	.00052	.0205	.00280	-.00088	.01454	-.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									.0030				
Low Limit									-.0040				

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00005**	**-.00143**	**.00025**	**.00068**
Stddev	.00002	.00025	.00015	.00045	.00003
%RSD	39.121	526.28	10.160	182.53	4.4983
#1	.00004	.00022	-.00153	-.00007	.00070
#2	.00007	-.00013	-.00132	.00056	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4304.1**	**7148.2**	**64440.**	**10004.**
Stddev	15.6	25.0	234.	6.
%RSD	.36221	.35029	.36235	.05546
#1	4293.1	7130.5	64275.	9999.7
#2	4315.1	7165.9	64605.	10008.

Sample Name: 480-30281-B-2-A Acquired: 12/19/2012 21:02:10 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**.54370**	**-.00195**	**.08981**	**.13162**	**-.00002**	**98.703**	**.00002**	**.00078**
Stddev	.00024	.00875	.00014	.00005	.00155	.00003	.008	.00002	.00005
%RSD	50.968	1.6101	7.3346	.05424	1.1799	174.93	.00778	85.286	6.8189
#1	-.00030	.54989	-.00185	.08984	.13053	-.00004	98.698	.00001	.00082
#2	-.00063	.53751	-.00205	.08977	.13272	.00000	98.709	.00004	.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.35679**	**.00737**	**.55117**	**6.3491**	**8.2672**	**.00832**	**18.693**	**.16074**	**.00160**
Stddev	.00443	.00022	.00466	.0013	.0249	.00011	.221	.00202	.00013
%RSD	1.2408	2.9384	.84537	.02110	.30162	1.3693	1.1834	1.2541	8.0784
#1	.35366	.00721	.54787	6.3481	8.2496	.00840	18.536	.15932	.00151
#2	.35992	.00752	.55446	6.3500	8.2848	.00824	18.849	.16217	.00169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**75.599**	**.00515**	**-.00036**	F **17.55**	**.00029**	**.00366**	**7.3071**	**-.00069**	**.55826**
Stddev	.265	.00000	.00085	.02	.00070	.00018	.0031	.00000	.00164
%RSD	.35119	.01136	240.01	.1354	240.25	4.9404	.04209	.63294	.29438
#1	75.787	.00515	-.00096	17.53	.00079	.00379	7.3093	-.00068	.55710
#2	75.411	.00515	.00025	17.56	-.00020	.00353	7.3049	-.00069	.55942
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00106**	**-.00029**	**.00031**	**.46253**
Stddev	.00027	.00038	.00037	.00538
%RSD	25.714	129.94	120.62	1.1628
#1	.00126	-.00056	.00005	.45873
#2	.00087	-.00002	.00057	.46633
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3939.8**	**6937.4**	**63428.**	**10232.**
Stddev	1.1	1.1	458.	1.
%RSD	.02707	.01570	.72171	.00596
#1	3940.6	6936.6	63752.	10232.
#2	3939.1	6938.2	63105.	10232.

Sample Name: MB 480-96586/1-A Acquired: 12/19/2012 21:04:22 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00093**	**-.00265**	**.00020**	**-.00051**	**.00037**	**-.00001**	**.08485**	**.00002**	**.00007**
Stddev	.00100	.02328	.00087	.00031	.00001	.00001	.00140	.00018	.00005
%RSD	107.42	877.36	425.65	60.366	2.5727	187.80	1.6503	885.11	72.547
#1	-.00022	-.01911	.00082	-.00029	.00037	.00000	.08584	-.00011	.00004
#2	-.00164	.01381	-.00041	-.00073	.00036	-.00001	.08386	.00015	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00083**	**.00144**	**.03702**	**.03565**	**.02014**	**-.00107**	**.00310**	**.00079**	**.00008**
Stddev	.00014	.00030	.00141	.00263	.00059	.00017	.00178	.00001	.00031
%RSD	17.264	20.717	3.8046	7.3684	2.9518	15.466	57.429	1.8633	364.65
#1	.00073	.00165	.03801	.03751	.02056	-.00095	.00435	.00080	-.00013
#2	.00093	.00123	.03602	.03379	.01972	-.00119	.00184	.00078	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01896**	**-.00031**	**-.00067**	F **.0218**	**-.00043**	**.00050**	F **1.2050**	F **.01949**	**-.00007**
Stddev	.00357	.00019	.00040	.0012	.00087	.00115	.0122	.00058	.00000
%RSD	18.850	59.586	59.769	5.582	203.40	231.93	1.0112	2.9755	1.1808
#1	.01643	-.00018	-.00095	.0226	-.00104	-.00032	1.1964	.01990	-.00007
#2	.02148	-.00044	-.00039	.0209	.00019	.00131	1.2136	.01908	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass
High Limit				.0030			.50000	.01000	
Low Limit				-.0040			-.50000	-.01000	

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**-.00004**	**-.00188**	**.00014**	**.00284**
Stddev	.00029	.00256	.00016	.00006
%RSD	812.64	136.23	114.71	2.2041
#1	.00017	-.00007	.00003	.00280
#2	-.00024	-.00369	.00026	.00288
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4317.8**	**7193.9**	**65673.**	**10172.**
Stddev	22.0	43.2	80.	27.
%RSD	.50891	.60040	.12215	.26900
#1	4302.3	7163.4	65616.	10192.
#2	4333.3	7224.5	65730.	10153.

Sample Name: LCSSRM 480-96586/2-A Acquired: 12/19/2012 21:06:49 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.29728	61.865	.85793	1.0208	1.4074	.48341	54.842	.57060	.98420
Stddev	.00109	.848	.00445	.0057	.0156	.00650	.646	.00224	.00455
%RSD	.36776	1.3708	.51925	.56138	1.1064	1.3443	1.1777	.39211	.46262
#1	.29805	62.465	.85478	1.0168	1.4184	.48800	55.299	.56902	.98098
#2	.29651	61.265	.86108	1.0249	1.3963	.47881	54.386	.57218	.98742
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.62237	.73752	89.599	33.288	32.570	.06349	25.529	2.4834	.43164
Stddev	.00467	.00189	1.071	.457	.203	.00046	.170	.0145	.00252
%RSD	.75057	.25682	1.1953	1.3720	.62309	.72027	.66730	.58322	.58487
#1	.62567	.73886	90.356	33.611	32.714	.06381	25.649	2.4937	.42985
#2	.61907	.73618	88.842	32.965	32.427	.06316	25.408	2.4732	.43342
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.9346	.55121	.87918	2.048	.74204	1.4719	24.650	.93502	.58908
Stddev	.0734	.00082	.00327	.013	.00121	.0046	.200	.00304	.00745
%RSD	1.2370	.14877	.37208	.6106	.16328	.30902	.81079	.32496	1.2647
#1	5.9865	.55063	.87687	2.039	.74118	1.4687	24.791	.93287	.59435
#2	5.8827	.55179	.88149	2.056	.74289	1.4751	24.509	.93717	.58381
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	None
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	2.1642	1.1311	.49835	1.2916
Stddev	.0074	.0005	.00276	.0019
%RSD	.34245	.04761	.55469	.15019
#1	2.1695	1.1307	.50030	1.2929
#2	2.1590	1.1314	.49639	1.2902
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3855.0	7190.0	65368.	10488.
Stddev	14.5	22.5	279.	108.
%RSD	.37541	.31249	.42635	1.0299
#1	3865.2	7205.9	65171.	10412.
#2	3844.8	7174.1	65565.	10565.

Sample Name: LCDSRM 480-96586/3-A Acquired: 12/19/2012 21:09:09 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.33570	67.863	.93681	1.0976	1.5703	.52431	60.239	.60411	1.0666
Stddev	.00074	.287	.00124	.0032	.0087	.00029	.243	.00269	.0023
%RSD	.21929	.42335	.13283	.28907	.55597	.05547	.40363	.44579	.21450
#1	.33623	68.066	.93769	1.0953	1.5765	.52451	60.411	.60220	1.0650
#2	.33518	67.660	.93593	1.0998	1.5641	.52410	60.067	.60601	1.0682
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.66504	.78976	99.980	36.082	35.355	.06840	27.613	2.6390	.45635
Stddev	.00069	.00308	.236	.108	.085	.00105	.080	.0041	.00070
%RSD	.10390	.39021	.23558	.29909	.23963	1.5321	.29084	.15415	.15409
#1	.66553	.79194	100.15	36.159	35.295	.06766	27.556	2.6361	.45585
#2	.66455	.78758	99.813	36.006	35.415	.06914	27.669	2.6418	.45685
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.4243	.59157	.93649	2.266	.74757	1.5834	24.741	1.0027	.66701
Stddev	.0151	.00325	.00159	.024	.00152	.0128	.162	.0020	.00129
%RSD	.23540	.54924	.16965	1.075	.20386	.80694	.65567	.20240	.19337
#1	6.4350	.58927	.93537	2.248	.74649	1.5744	24.856	1.0013	.66792
#2	6.4137	.59386	.93761	2.283	.74864	1.5924	24.626	1.0042	.66609
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	None
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	2.2483	1.2295	.53773	1.3988
Stddev	.0041	.0076	.00083	.0049
%RSD	.18225	.61607	.15524	.35162
#1	2.2512	1.2241	.53714	1.3953
#2	2.2454	1.2348	.53832	1.4023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3835.6	7194.8	65598.	10456.
Stddev	15.0	19.0	17.	11.
%RSD	.39019	.26440	.02555	.10984
#1	3846.2	7208.3	65610.	10448.
#2	3825.0	7181.4	65586.	10464.

Sample Name: 480-30342-F-2-B Acquired: 12/19/2012 21:11:20 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00038	-.00343	.00181	.00160	.00032	.00015	.07404	.00008	.00000
Stddev	.00034	.00006	.00110	.00010	.00003	.00004	.00189	.00000	.00005
%RSD	90.942	1.6784	61.126	6.2747	9.2114	26.212	2.5537	3.5413	5671.1
#1	-.00014	-.00347	.00103	.00167	.00034	.00012	.07538	.00008	.00003
#2	-.00062	-.00339	.00259	.00153	.00030	.00018	.07271	.00008	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00007	.00266	.11215	.01139	.02316	-.00043	.00208	.00136	.00018
Stddev	.00012	.00002	.00334	.00348	.00029	.00123	.00070	.00001	.00015
%RSD	166.66	.88258	2.9823	30.551	1.2592	287.72	33.488	.41361	82.185
#1	.00016	.00267	.10978	.01386	.02295	.00044	.00159	.00137	.00028
#2	-.00001	.00264	.11451	.00893	.02337	-.00129	.00257	.00136	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00779	-.00001	.00122	4.394	.00146	.00244	.01260	.01925	.00003
Stddev	.00873	.00007	.00079	.009	.00046	.00151	.00462	.00032	.00001
%RSD	111.98	663.69	64.996	.2105	31.859	62.028	36.674	1.6810	20.630
#1	-.00162	-.00006	.00066	4.401	.00178	.00137	.01586	.01948	.00003
#2	-.01396	.00004	.00177	4.388	.00113	.00350	.00933	.01902	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	.00121	-.00324	.00060	.00368
Stddev	.00010	.00107	.00026	.00011
%RSD	8.4832	33.002	43.145	3.1142
#1	.00128	-.00248	.00079	.00360
#2	.00114	-.00399	.00042	.00376
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4423.0	7274.3	67162.	10641.
Stddev	12.0	21.6	273.	73.
%RSD	.27220	.29700	.40643	.68363
#1	4414.5	7259.0	66969.	10692.
#2	4431.5	7289.6	67355.	10589.

Sample Name: 480-30342-F-3-B Acquired: 12/19/2012 21:13:34 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00118**	**-.00242**	**.00071**	**.00059**	**.00044**	**.00008**	**.15373**	**.00000**	**-.00005**
Stddev	.00006	.00089	.00144	.00000	.00004	.00003	.00217	.00011	.00019
%RSD	5.3837	36.856	202.28	.72500	9.3508	40.225	1.4133	2959.2	399.85
#1	-.00123	-.00179	-.00031	.00059	.00041	.00011	.15526	.00008	-.00018
#2	-.00114	-.00305	.00173	.00059	.00046	.00006	.15219	-.00008	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**.00123**	**.02041**	**.04851**	**.04928**	**-.00155**	**.02312**	**.00157**	**.00004**
Stddev	.00019	.00031	.00093	.03517	.00054	.00081	.00054	.00016	.00009
%RSD	53.338	25.269	4.5657	72.504	1.0922	52.351	2.3345	10.134	200.19
#1	-.00048	.00101	.01975	.02364	.04966	-.00098	.02350	.00146	-.00002
#2	-.00022	.00144	.02107	.07338	.04890	-.00212	.02273	.00169	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04174**	**-.00011**	**-.00071**	**.0823**	**.00055**	**-.00209**	**-.01456**	**.02424**	**.00053**
Stddev	.00957	.00027	.00010	.0013	.00018	.00108	.00497	.00024	.00003
%RSD	22.921	253.54	14.436	1.614	32.786	51.958	34.111	1.0022	5.9975
#1	.04850	.00008	-.00078	.0833	.00042	-.00132	-.01807	.02406	.00051
#2	.03497	-.00030	-.00064	.0814	.00068	-.00285	-.01105	.02441	.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**-.00005**	**-.00212**	**-.00019**	**.00242**
Stddev	.00014	.00047	.00016	.00023
%RSD	286.89	22.330	81.717	9.3592
#1	.00005	-.00179	-.00008	.00226
#2	-.00015	-.00246	-.00030	.00258
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4136.1**	**6896.8**	**64194.**	**10550.**
Stddev	15.3	20.9	2536.	78.
%RSD	.37077	.30286	3.9504	.73790
#1	4125.2	6882.0	65988.	10495.
#2	4146.9	6911.6	62401.	10605.

Sample Name: 480-30342-E-4-B Acquired: 12/19/2012 21:15:53 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00003	-.00253	.00089	-.00037	.00185	.00004	.04446	.00004	.00006
Stddev	.00011	.00313	.00149	.00027	.00001	.00000	.00040	.00002	.00012
%RSD	319.57	123.40	167.08	73.026	.50523	8.1156	.90722	60.010	181.61
#1	.00011	-.00474	-.00016	-.00018	.00186	.00004	.04418	.00002	-.00002
#2	-.00004	-.00032	.00194	-.00056	.00185	.00004	.04475	.00006	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00029	.00202	.08194	-.00035	.02149	-.00006	-.00001	.00056	-.00008
Stddev	.00039	.00032	.00251	.04597	.00032	.00032	.00036	.00011	.00029
%RSD	135.55	15.802	3.0599	12949.	1.4928	500.56	3292.4	19.636	345.87
#1	-.00056	.00179	.08017	.03215	.02172	-.00029	.00025	.00064	-.00029
#2	-.00001	.00224	.08372	-.03286	.02127	.00016	-.00027	.00048	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.01308	-.00022	.00252	3.040	.00035	-.00080	-.01528	.01921	-.00008
Stddev	.00809	.00045	.00014	.056	.00213	.00024	.00149	.00033	.00017
%RSD	61.844	201.14	5.4232	1.854	612.56	29.623	9.7442	1.7017	210.32
#1	-.00736	-.00054	.00261	3.080	.00185	-.00097	-.01423	.01945	-.00021
#2	-.01880	.00009	.00242	3.000	-.00116	-.00063	-.01634	.01898	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	.00048	-.00238	-.00024	.00194
Stddev	.00022	.00039	.00004	.00003
%RSD	46.115	16.611	15.734	1.6959
#1	.00064	-.00266	-.00022	.00191
#2	.00033	-.00210	-.00027	.00196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4435.6	7303.4	67145.	10454.
Stddev	70.6	112.3	73.	4.
%RSD	1.5910	1.5374	.10871	.04159
#1	4385.7	7224.0	67094.	10457.
#2	4485.5	7382.8	67197.	10451.

Sample Name: 480-30342-E-5-B Acquired: 12/19/2012 21:18:10 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00073**	**.00591**	**.00126**	**.00906**	**.13963**	**.00000**	**.08368**	**.00050**	**.00009**
Stddev	.00029	.00873	.00014	.00016	.00033	.00006	.00028	.00004	.00003
%RSD	39.631	147.64	10.873	1.7425	.23772	3953.3	.33840	8.6908	32.215
#1	-.00094	.01209	.00117	.00917	.13986	.00004	.08388	.00047	.00007
#2	-.00053	-.00026	.00136	.00895	.13939	-.00004	.08348	.00053	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00080**	**.02087**	**.80857**	**.02783**	**.02870**	**-.00075**	**.03288**	**.08958**	**.00222**
Stddev	.00003	.00011	.00428	.00061	.00070	.00002	.00354	.00001	.00035
%RSD	3.4591	.51367	.52924	2.1855	2.4557	3.1214	10.767	.01476	15.805
#1	.00082	.02079	.81160	.02740	.02920	-.00073	.03538	.08957	.00246
#2	.00078	.02094	.80554	.02826	.02821	-.00077	.03037	.08959	.00197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12611**	**.00024**	**.00900**	**3.615**	**.00141**	**.00191**	**-.00269**	**.02703**	**.00079**
Stddev	.00198	.00008	.00011	.006	.00082	.00170	.01063	.00006	.00003
%RSD	1.5714	34.464	1.2558	.1715	58.205	88.829	394.87	.23671	3.4703
#1	.12751	.00030	.00908	3.610	.00199	.00071	-.01021	.02708	.00078
#2	.12470	.00018	.00892	3.619	.00083	.00311	.00482	.02699	.00081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00151**	**-.00294**	**.00030**	**.03150**
Stddev	.00032	.00105	.00022	.00040
%RSD	21.488	35.923	71.290	1.2835
#1	.00128	-.00368	.00046	.03179
#2	.00173	-.00219	.00015	.03122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4422.0**	**7288.1**	**67292.**	**10520.**
Stddev	8.5	20.9	46.	40.
%RSD	.19210	.28679	.06776	.37597
#1	4416.0	7273.3	67260.	10492.
#2	4428.0	7302.8	67324.	10548.

Sample Name: 480-30342-F-6-B Acquired: 12/19/2012 21:20:27 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00072**	**.00828**	**-.00061**	**.00026**	**.00133**	**.00008**	**.08939**	**-.00014**	**.00019**
Stddev	.00085	.00773	.00071	.00035	.00003	.00005	.00017	.00009	.00002
%RSD	117.55	93.397	116.90	132.65	1.9680	60.959	.18745	64.928	12.294
#1	-.00132	.00281	-.00011	.00051	.00135	.00005	.08927	-.00021	.00018
#2	-.00012	.01374	-.00111	.00002	.00131	.00011	.08951	-.00008	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**.00895**	**.40662**	**.02664**	**.02812**	**-.00080**	**.01157**	**.00152**	**.00315**
Stddev	.00003	.00003	.00665	.03467	.00030	.00096	.00485	.00011	.00005
%RSD	10.182	.31950	1.6348	130.13	1.0575	120.81	41.934	7.4103	1.5265
#1	.00029	.00897	.41132	.05116	.02833	-.00012	.00814	.00160	.00319
#2	.00025	.00893	.40192	.00213	.02791	-.00148	.01500	.00144	.00312
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00997**	**.01448**	**.03875**	**6.574**	**.00111**	**-.00376**	**.00340**	**.02312**	**.00075**
Stddev	.00712	.00012	.00172	.012	.00039	.00201	.00124	.00045	.00005
%RSD	71.416	.81893	4.4321	.1830	34.952	53.367	36.347	1.9307	6.3744
#1	-.00493	.01440	.03754	6.583	.00084	-.00234	.00253	.02344	.00072
#2	-.01500	.01456	.03997	6.566	.00139	-.00519	.00428	.02281	.00078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00062**	**-.00241**	**.11875**	**.00856**
Stddev	.00024	.00095	.00204	.00004
%RSD	38.372	39.394	1.7158	.45748
#1	.00079	-.00308	.12020	.00859
#2	.00045	-.00174	.11731	.00853
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4416.9**	**7296.9**	**68777.**	**10587.**
Stddev	.9	7.0	990.	64.
%RSD	.02112	.09650	1.4390	.60435
#1	4417.6	7301.9	68077.	10542.
#2	4416.3	7291.9	69477.	10632.

Sample Name: 480-30342-E-7-B Acquired: 12/19/2012 21:22:45 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**.00405**	**-.00141**	**.01418**	**.09162**	**.00004**	**.08590**	**.00027**	**-.00002**
Stddev	.00002	.01341	.00017	.00021	.00008	.00006	.00460	.00010	.00005
%RSD	6.6331	330.64	12.222	1.5005	.08279	161.65	5.3497	37.488	250.92
#1	-.00024	.01353	-.00129	.01433	.09168	.00008	.08915	.00020	.00001
#2	-.00022	-.00542	-.00153	.01403	.09157	-.00001	.08265	.00034	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00858**	**.60381**	**.01123**	**.02741**	**-.00032**	**.02126**	**.06906**	**.00103**
Stddev	.00001	.00026	.00644	.02375	.00034	.00004	.00260	.00031	.00013
%RSD	11.906	3.0279	1.0661	211.39	1.2324	13.161	12.213	.44825	12.777
#1	-.00008	.00876	.60836	-.00556	.02765	-.00035	.01943	.06928	.00094
#2	-.00010	.00839	.59926	.02803	.02717	-.00029	.02310	.06884	.00113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01827**	**-.00018**	**.00583**	**1.168**	**.00095**	**-.00264**	**-.00992**	**.02858**	**.00040**
Stddev	.00742	.00012	.00066	.007	.00021	.00061	.00627	.00004	.00002
%RSD	40.635	67.295	11.396	.6307	21.923	23.051	63.238	.13232	5.7446
#1	.02351	-.00009	.00630	1.173	.00080	-.00307	-.01436	.02855	.00042
#2	.01302	-.00026	.00536	1.163	.00110	-.00221	-.00548	.02861	.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00073**	**-.00234**	**.00033**	**.02983**
Stddev	.00002	.00070	.00029	.00041
%RSD	2.0996	30.044	88.412	1.3868
#1	.00072	-.00284	.00053	.02954
#2	.00074	-.00184	.00012	.03013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4405.0**	**7283.7**	**67226.**	**10461.**
Stddev	12.1	27.3	166.	58.
%RSD	.27406	.37486	.24726	.55907
#1	4396.4	7264.4	67108.	10420.
#2	4413.5	7303.0	67344.	10503.

Sample Name: CCV Acquired: 12/19/2012 21:25:11 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50886	24.461	.49147	.49209	.49388	.49109	24.986	.49714	.49442	.51169	.50645	23.698	25.096
Stddev	.00348	.152	.00268	.00503	.00548	.00363	.206	.00398	.00364	.00503	.00406	.156	.182
%RSD	.68368	.62223	.54568	1.0229	1.1092	.74013	.82249	.80011	.73531	.98361	.80261	.65855	.72464
#1	.51132	24.353	.48957	.48853	.49001	.48852	24.841	.49433	.49185	.51525	.50933	23.588	24.967
#2	.50640	24.568	.49337	.49565	.49775	.49366	25.132	.49996	.49699	.50813	.50358	23.808	25.224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.167	.49288	24.663	.50828	.50555	25.024	.49298	.50163	23.86	.49543	.48833	24.555	.50997
Stddev	.144	.00296	.228	.00473	.00342	.080	.00403	.00412	.27	.00304	.00290	.183	.00616
%RSD	.55150	.60103	.92314	.93102	.67735	.31872	.81778	.82157	1.144	.61328	.59299	.74381	1.2084
#1	26.065	.49079	24.824	.51163	.50313	24.967	.49013	.49872	23.67	.49328	.48628	24.426	.50561
#2	26.269	.49498	24.502	.50493	.50798	25.080	.49583	.50454	24.06	.49758	.49038	24.684	.51433
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	.49913	.50542	.49859	.51460	.53036
Stddev	.00439	.00556	.00277	.00319	.00595
%RSD	.87911	1.1006	.55597	.62079	1.1216
#1	.49602	.50935	.49663	.51686	.53457
#2	.50223	.50149	.50055	.51235	.52615
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4041.8	7181.5	64120.	10115.
Stddev	26.8	45.4	339.	116.
%RSD	.66383	.63285	.52938	1.1503
#1	4060.8	7213.6	63880.	10197.
#2	4022.8	7149.4	64360.	10032.

Sample Name: CCB Acquired: 12/19/2012 21:27:36 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00068**	**-.01261**	**-.00003**	**-.00023**	**.00007**	**.00003**	**.00573**	**-.00007**	**-.00003**	**-.00030**	**.00085**	**.00104**	**-.01443**
Stddev	.00088	.00659	.00197	.00010	.00004	.00000	.00327	.00016	.00005	.00027	.00023	.00024	.04623
%RSD	130.48	52.269	7608.8	41.094	51.250	7.2134	57.040	237.66	133.58	89.881	26.510	22.813	320.38
#1	-.00130	-.01727	.00137	-.00017	.00005	.00003	.00342	-.00018	.00000	-.00049	.00101	.00087	-.04712
#2	-.00005	-.00795	-.00142	-.00030	.00010	.00003	.00804	.00005	-.00007	-.00011	.00069	.00121	.01826
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00380**	**-.00124**	**-.00053**	**.00007**	**.00009**	**.00923**	**-.00028**	**.00048**	F **.0041**	**-.00023**	**.00330**	**.00872**	**-.00022**
Stddev	.00019	.00063	.00293	.00003	.00004	.00129	.00029	.00006	.0030	.00054	.00235	.00683	.00029
%RSD	4.9317	51.111	549.89	45.659	42.471	13.954	102.13	12.267	72.90	235.61	71.181	78.317	130.01
#1	.00367	-.00079	-.00261	.00005	.00011	.01014	-.00049	.00044	.0062	-.00062	.00496	.01355	-.00043
#2	.00393	-.00169	.00154	.00010	.00006	.00832	-.00008	.00053	.0020	.00015	.00164	.00389	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									.0030				
Low Limit									-.0040				

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**-.00052**	**-.00200**	**.00017**	**.00060**
Stddev	.00010	.00018	.00027	.00019	.00007
%RSD	375.92	35.337	13.449	112.65	12.412
#1	-.00009	-.00039	-.00181	.00030	.00065
#2	.00004	-.00065	-.00219	.00003	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4330.4**	**7236.8**	**66043.**	**10339.**
Stddev	8.7	25.1	843.	198.
%RSD	.20045	.34654	1.2760	1.9110
#1	4336.5	7254.5	66639.	10478.
#2	4324.2	7219.0	65448.	10199.

Sample Name: 480-30342-F-8-B Acquired: 12/19/2012 21:29:55 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00163**	**-.00339**	**.00048**	**.00131**	**.00123**	**.00006**	**.04363**	**.00009**	**.00031**
Stddev	.00036	.00236	.00130	.00002	.00005	.00001	.00003	.00005	.00006
%RSD	21.854	69.634	270.42	1.8559	3.8930	23.416	.05814	52.945	20.191
#1	-.00189	-.00172	-.00044	.00133	.00126	.00007	.04365	.00013	.00035
#2	-.00138	-.00506	.00139	.00130	.00119	.00005	.04362	.00006	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**.00769**	**.23893**	**.01840**	**.02761**	**.00054**	**.00768**	**.00098**	**.00295**
Stddev	.00013	.00037	.00228	.02161	.00133	.00038	.00575	.00008	.00013
%RSD	24.433	4.8327	.95425	117.47	4.8262	70.598	74.821	8.1116	4.3426
#1	.00045	.00795	.23732	.03368	.02855	.00080	.01175	.00104	.00304
#2	.00064	.00742	.24054	.00312	.02667	.00027	.00362	.00093	.00286
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01309**	**.02132**	**.03932**	**7.007**	**.00193**	**.00098**	**.00360**	**.02643**	**.00007**
Stddev	.00933	.00049	.00103	.010	.00296	.00181	.01225	.00033	.00009
%RSD	71.233	2.3154	2.6161	.1382	153.57	184.29	340.40	1.2592	130.72
#1	-.00650	.02167	.03859	7.014	-.00017	-.00030	.01226	.02619	.00001
#2	-.01969	.02097	.04005	7.000	.00402	.00227	-.00506	.02666	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00057**	**-.00329**	**.13666**	**.00647**
Stddev	.00019	.00150	.00031	.00027
%RSD	33.755	45.581	.22934	4.1896
#1	.00070	-.00435	.13688	.00666
#2	.00043	-.00223	.13644	.00628
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4361.1**	**7212.1**	**66756.**	**10448.**
Stddev	15.8	26.4	46.	75.
%RSD	.36335	.36618	.06903	.71618
#1	4349.9	7193.5	66723.	10395.
#2	4372.3	7230.8	66788.	10501.

Sample Name: 480-30409-A-1-B Acquired: 12/19/2012 21:32:08 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00073**	**.17095**	**-.00033**	**.01113**	**.02456**	**.00005**	**6.7088**	**.00177**	**.00113**
Stddev	.00038	.00848	.00098	.00015	.00003	.00003	.0227	.00013	.00003
%RSD	51.612	4.9597	298.72	1.3093	.12537	64.981	.33860	7.0899	2.5729
#1	-.00099	.16495	-.00102	.01123	.02458	.00008	6.6927	.00186	.00111
#2	-.00046	.17694	.00036	.01103	.02453	.00003	6.7248	.00168	.00115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07674**	**.09300**	**4.0722**	**1.2969**	**.96186**	**.00027**	**.20107**	**.03181**	**.01335**
Stddev	.00058	.00004	.0051	.0127	.00037	.00004	.00380	.00003	.00010
%RSD	.75421	.04075	.12462	.98258	.03871	15.847	1.8892	.09700	.75598
#1	.07715	.09303	4.0757	1.2879	.96212	.00024	.20376	.03183	.01342
#2	.07633	.09297	4.0686	1.3059	.96160	.00030	.19839	.03179	.01328
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.36621**	**.00476**	**.22344**	**9.819**	**.00157**	**-.00100**	**.15212**	**.02288**	**.01736**
Stddev	.01232	.00027	.00248	.004	.00001	.00135	.00329	.00002	.00017
%RSD	3.3646	5.7408	1.1079	.0423	.95032	134.45	2.1600	.06581	1.0002
#1	.35750	.00456	.22169	9.817	.00156	-.00005	.15444	.02287	.01724
#2	.37493	.00495	.22519	9.822	.00158	-.00196	.14979	.02289	.01748
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00659**	**-.00268**	**.00032**	**1.4209**
Stddev	.00002	.00078	.00013	.0045
%RSD	.30821	28.896	38.737	.31550
#1	.00658	-.00323	.00041	1.4241
#2	.00660	-.00213	.00023	1.4178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4381.9**	**7341.3**	**67197.**	**10453.**
Stddev	12.8	19.2	72.	15.
%RSD	.29319	.26120	.10686	.14496
#1	4372.8	7327.7	67147.	10442.
#2	4391.0	7354.8	67248.	10464.

Sample Name: 480-30387-A-1-B Acquired: 12/19/2012 21:34:20 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.00323**	**56.549**	**.01793**	**-.00222**	**.44199**	F **-.00240**	**25.995**	F **-.00169**	**.04350**
Stddev	.00061	1.668	.00104	.00064	.00188	.00013	.766	.00006	.00006
%RSD	18.945	2.9500	5.7843	28.880	.42591	5.5289	2.9473	3.5649	.13225
#1	-.00367	57.728	.01866	-.00268	.44332	-.00250	26.537	-.00173	.04354
#2	-.00280	55.369	.01719	-.00177	.44066	-.00231	25.453	-.00165	.04346
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
High Limit	2.0000					25.000		15.000	
Low Limit	-.00300					-.00200		-.00100	

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02842**	**.03523**	**95.500**	**37.237**	**34.071**	**.12971**	**32.399**	**1.8645**	**.00265**
Stddev	.00005	.00001	2.983	1.121	.911	.00311	.026	.0007	.00005
%RSD	.17754	.03023	3.1240	3.0098	2.6741	2.3970	.08172	.03949	2.0458
#1	.02846	.03522	97.609	38.029	34.715	.13191	32.417	1.8650	.00261
#2	.02839	.03524	93.390	36.444	33.427	.12751	32.380	1.8640	.00269
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.92230**	**.03427**	**.01666**	**2.224**	**.00039**	**.00118**	**19.622**	**.05323**	**.07367**
Stddev	.02591	.00008	.00107	.024	.00060	.00172	.573	.00030	.00230
%RSD	2.8098	.23041	6.4142	1.056	154.64	145.32	2.9207	.56785	3.1186
#1	.94063	.03422	.01590	2.207	.00081	.00240	20.027	.05344	.07529
#2	.90398	.03433	.01741	2.240	-.00004	-.00003	19.216	.05301	.07204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**7.2841**	**-.00393**	**.18643**	**.33208**
Stddev	.0206	.00188	.00046	.00167
%RSD	.28220	47.903	.24517	.50420
#1	7.2986	-.00527	.18675	.33326
#2	7.2696	-.00260	.18611	.33089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3920.9**	**7147.4**	**68310.**	**10639.**
Stddev	12.8	22.4	99.	237.
%RSD	.32741	.31392	.14463	2.2256
#1	3930.0	7163.3	68241.	10472.
#2	3911.8	7131.6	68380.	10806.

Sample Name: 480-30406-E-1-D Acquired: 12/19/2012 21:36:37 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**65.973**	**.08335**	**.01480**	**.34857**	**.00084**	**33.818**	**.00396**	**.03499**
Stddev	.00075	1.211	.00103	.00018	.00409	.00004	.688	.00012	.00047
%RSD	4482.0	1.8353	1.2363	1.2273	1.1731	4.3681	2.0348	3.1075	1.3393
#1	-.00055	66.829	.08408	.01492	.35146	.00086	34.304	.00387	.03532
#2	.00051	65.117	.08263	.01467	.34568	.00081	33.331	.00404	.03466
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.35855**	**.13746**	**87.456**	**7.7210**	**7.2241**	**.08553**	**16.832**	**2.8620**	**.00522**
Stddev	.00447	.00159	1.691	.2420	.1281	.00180	.254	.0403	.00017
%RSD	1.2458	1.1558	1.9340	3.1336	1.7737	2.1077	1.5119	1.4074	3.3213
#1	.36171	.13858	88.652	7.8921	7.3147	.08681	17.012	2.8905	.00509
#2	.35539	.13634	86.260	7.5500	7.1335	.08426	16.652	2.8335	.00534
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.76957**	**.07720**	**.18549**	F **10.38**	**-.00042**	**.00153**	**17.895**	**.03791**	**.14506**
Stddev	.03505	.00068	.00134	.07	.00217	.00036	.395	.00031	.00267
%RSD	4.5544	.88622	.72241	.6723	518.07	23.733	2.2085	.82070	1.8439
#1	.79435	.07768	.18644	10.43	-.00195	.00127	18.175	.03813	.14695
#2	.74478	.07671	.18454	10.34	.00111	.00179	17.616	.03769	.14317
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**4.1213**	**-.00345**	**.15870**	**.41288**
Stddev	.0435	.00066	.00158	.00827
%RSD	1.0558	19.126	.99870	2.0026
#1	4.1520	-.00298	.15982	.41873
#2	4.0905	-.00391	.15758	.40703
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3993.6**	**7268.4**	**66425.**	**10453.**
Stddev	21.0	41.1	749.	204.
%RSD	.52512	.56516	1.1274	1.9495
#1	3978.7	7239.3	65896.	10309.
#2	4008.4	7297.4	66955.	10597.

Sample Name: 480-30406-E-2-B Acquired: 12/19/2012 21:38:46 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00145	49.185	.05960	.01492	.31924	.00056	30.523	.00351	.02867
Stddev	.00062	.140	.00126	.00080	.00020	.00002	.012	.00019	.00005
%RSD	42.750	.28395	2.1141	5.3842	.06420	4.2837	.03931	5.4392	.16712
#1	.00189	49.283	.06049	.01549	.31938	.00057	30.514	.00365	.02863
#2	.00101	49.086	.05871	.01435	.31909	.00054	30.531	.00338	.02870
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20893	.16078	69.721	4.6749	4.3581	.06095	12.717	2.7693	.00430
Stddev	.00031	.00072	.068	.0086	.0033	.00098	.072	.0058	.00004
%RSD	.14758	.44644	.09713	.18319	.07551	1.6003	.56446	.20858	.90853
#1	.20915	.16129	69.768	4.6809	4.3557	.06026	12.768	2.7734	.00427
#2	.20871	.16028	69.673	4.6688	4.3604	.06164	12.666	2.7652	.00433
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.94557	.06281	.14605	F 20.52	.00081	.00248	20.321	.03661	.13169
Stddev	.00665	.00041	.00069	.02	.00129	.00351	.043	.00035	.00004
%RSD	.70309	.65183	.47079	.1041	160.26	141.61	.21031	.94719	.02761
#1	.94087	.06310	.14653	20.51	.00172	.00496	20.351	.03685	.13172
#2	.95027	.06252	.14556	20.54	-.00011	.00000	20.291	.03636	.13167
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	3.3200	-.00228	.11844	.48258
Stddev	.0066	.00234	.00000	.00012
%RSD	.19715	102.52	.00187	.02581
#1	3.3246	-.00063	.11844	.48267
#2	3.3154	-.00393	.11844	.48249
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4047.4	7254.9	66294.	10699.
Stddev	1.7	4.5	195.	1.
%RSD	.04105	.06217	.29486	.01045
#1	4048.6	7251.7	66156.	10700.
#2	4046.2	7258.1	66432.	10698.

Sample Name: 480-30406-D-3-B Acquired: 12/19/2012 21:40:58 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00086	47.790	.04552	.02181	.33316	.00069	28.503	.00157	.02947
Stddev	.00034	.522	.00055	.00047	.00244	.00002	.316	.00005	.00030
%RSD	39.108	1.0930	1.2172	2.1524	.73309	3.0638	1.1078	3.3431	1.0087
#1	.00062	48.160	.04512	.02148	.33488	.00070	28.726	.00153	.02926
#2	.00110	47.421	.04591	.02214	.33143	.00067	28.280	.00161	.02968
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.13600	.15415	69.781	5.7785	5.4047	.06983	14.570	4.3419	.00662
Stddev	.00101	.00153	.421	.0096	.0538	.00109	.040	.0225	.00000
%RSD	.74555	.99455	.60274	.16621	.99554	1.5679	.27407	.51742	.07263
#1	.13672	.15523	70.078	5.7717	5.4427	.07060	14.598	4.3578	.00662
#2	.13528	.15306	69.483	5.7853	5.3666	.06905	14.541	4.3260	.00661
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0490	.06401	.37198	9.919	-.00068	.00516	14.763	.03641	.16027
Stddev	.0158	.00102	.00311	.098	.00012	.00271	.167	.00074	.00052
%RSD	1.5064	1.5889	.83520	.9840	18.246	52.590	1.1293	2.0440	.32252
#1	1.0602	.06329	.36978	9.850	-.00059	.00324	14.881	.03589	.16064
#2	1.0379	.06473	.37417	9.988	-.00077	.00707	14.645	.03694	.15990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	3.0496	-.00098	.12353	.50177
Stddev	.0234	.00040	.00024	.00267
%RSD	.76847	40.650	.19080	.53189
#1	3.0662	-.00070	.12370	.50366
#2	3.0331	-.00126	.12337	.49989
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4052.7	7247.3	66562.	10699.
Stddev	26.4	46.1	401.	52.
%RSD	.65049	.63583	.60271	.48795
#1	4071.3	7279.9	66278.	10662.
#2	4034.1	7214.7	66846.	10736.

Sample Name: 480-30406-D-4-B Acquired: 12/19/2012 21:43:17 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00197	44.664	.05579	.01734	.31999	.00062	26.599	.00177	.02702
Stddev	.00013	.118	.00125	.00035	.00127	.00018	.053	.00005	.00016
%RSD	6.5762	.26509	2.2330	2.0067	.39542	29.637	.19841	2.6536	.60508
#1	.00188	44.747	.05668	.01759	.31909	.00049	26.637	.00174	.02713
#2	.00206	44.580	.05491	.01710	.32088	.00075	26.562	.00181	.02690
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.18665	.14269	63.614	5.0807	4.6791	.06439	12.631	3.0391	.00688
Stddev	.00057	.00037	.060	.0144	.0037	.00029	.058	.0076	.00022
%RSD	.30357	.25706	.09386	.28293	.07845	.45492	.46113	.25162	3.2640
#1	.18625	.14243	63.656	5.0909	4.6765	.06418	12.590	3.0337	.00704
#2	.18705	.14295	63.572	5.0706	4.6817	.06460	12.672	3.0445	.00672
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0135	.06019	.34355	F 14.17	.00117	.00242	13.554	.04585	.13198
Stddev	.0070	.00006	.00044	.04	.00092	.00091	.010	.00051	.00038
%RSD	.69017	.10530	.12842	.3110	78.143	37.520	.07405	1.1107	.28477
#1	1.0184	.06015	.34387	14.20	.00053	.00306	13.561	.04549	.13225
#2	1.0085	.06024	.34324	14.14	.00182	.00178	13.547	.04621	.13172
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	2.9504	-.00198	.10898	.47736
Stddev	.0074	.00388	.00045	.00226
%RSD	.25177	195.44	.41536	.47426
#1	2.9451	.00076	.10866	.47576
#2	2.9556	-.00472	.10930	.47897
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4057.4	7211.5	66694.	10729.
Stddev	7.3	22.4	273.	17.
%RSD	.17889	.31100	.40965	.15802
#1	4052.2	7195.6	66887.	10717.
#2	4062.5	7227.3	66501.	10741.

Sample Name: 480-30406-D-4-B SD@5 Acquired: 12/19/2012 21:45:33 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00071**	**9.3128**	**.01047**	**.00311**	**.06712**	**.00016**	**5.5999**	**.00041**	**.00551**
Stddev	.00022	.0810	.00007	.00014	.00110	.00011	.0553	.00000	.00020
%RSD	30.720	.86996	.67031	4.5967	1.6319	68.015	.98823	.73243	3.6262
#1	-.00056	9.3701	.01052	.00301	.06790	.00024	5.6390	.00041	.00537
#2	-.00087	9.2555	.01042	.00321	.06635	.00008	5.5607	.00041	.00565
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03958**	**.03086**	**13.513**	**1.0344**	**.84352**	**.01117**	**2.7372**	**.64793**	**.00144**
Stddev	.00052	.00056	.133	.0092	.00631	.00106	.0395	.00989	.00024
%RSD	1.3013	1.8268	.98557	.88591	.74854	9.4646	1.4441	1.5264	16.959
#1	.03994	.03126	13.607	1.0279	.84799	.01042	2.7652	.65492	.00162
#2	.03922	.03046	13.419	1.0409	.83906	.01191	2.7093	.64093	.00127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17407**	**.01283**	**.07321**	**3.007**	**.00008**	**.00043**	**2.7957**	**.00931**	**.02712**
Stddev	.01365	.00025	.00202	.020	.00028	.00125	.0587	.00026	.00014
%RSD	7.8417	1.9359	2.7566	.6550	340.62	291.42	2.0983	2.7697	.52412
#1	.18372	.01265	.07178	2.994	-.00012	-.00046	2.8371	.00913	.02722
#2	.16442	.01301	.07464	3.021	.00028	.00131	2.7542	.00949	.02702
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.60964**	**-.00131**	**.02302**	**.10325**
Stddev	.00823	.00008	.00029	.00166
%RSD	1.3494	6.3140	1.2587	1.6073
#1	.61546	-.00136	.02323	.10443
#2	.60383	-.00125	.02282	.10208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4326.1**	**7354.0**	**67742.**	**10777.**
Stddev	3.0	3.3	947.	143.
%RSD	.06968	.04473	1.3974	1.3247
#1	4328.2	7356.3	67073.	10676.
#2	4324.0	7351.7	68411.	10878.

Sample Name: 480-30406-D-4-B PDS Acquired: 12/19/2012 21:47:47 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.09702	61.453	.46378	.42345	.65865	.39317	44.547	.40790	.45596
Stddev	.00054	.132	.00441	.00135	.00064	.00042	.011	.00155	.00172
%RSD	.55176	.21405	.95120	.31997	.09703	.10634	.02478	.37903	.37715
#1	.09664	61.360	.46690	.42441	.65820	.39346	44.555	.40899	.45718
#2	.09740	61.546	.46066	.42249	.65911	.39287	44.539	.40681	.45475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.58889	.54136	77.931	24.487	24.720	.44237	31.082	3.2452	.44152
Stddev	.00200	.00269	.087	.062	.109	.00232	.069	.0105	.00093
%RSD	.33959	.49752	.11124	.25492	.44006	.52538	.22311	.32483	.20955
#1	.59031	.54326	77.870	24.442	24.797	.44073	31.131	3.2526	.44217
#2	.58748	.53946	77.993	24.531	24.643	.44401	31.033	3.2377	.44087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.957	.47776	.75780	F 13.53	.39737	.40273	32.531	.43308	.52242
Stddev	.004	.00147	.00571	.03	.00101	.00160	.016	.00290	.00122
%RSD	.01720	.30824	.75324	.1960	.25491	.39795	.04831	.66971	.23266
#1	20.954	.47880	.76183	13.55	.39666	.40386	32.542	.43513	.52156
#2	20.960	.47672	.75376	13.51	.39809	.40159	32.520	.43103	.52328
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	3.1998	.41922	.52944	.90251
Stddev	.0213	.00123	.00332	.00138
%RSD	.66407	.29311	.62799	.15264
#1	3.2149	.42009	.53180	.90348
#2	3.1848	.41835	.52709	.90153
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3851.0	7026.2	64141.	10599.
Stddev	13.0	36.5	365.	22.
%RSD	.33792	.51961	.56982	.20757
#1	3841.8	7000.4	63883.	10583.
#2	3860.2	7052.0	64400.	10614.

Sample Name: 480-30406-D-4-C MS Acquired: 12/19/2012 21:50:03 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.09786	71.840	.46785	.43274	.66795	.38624	46.962	.41268	.46397
Stddev	.00009	.139	.00064	.00055	.00318	.00074	.212	.00095	.00059
%RSD	.09198	.19334	.13744	.12720	.47581	.19212	.45144	.22971	.12775
#1	.09779	71.938	.46739	.43312	.67020	.38676	47.112	.41201	.46355
#2	.09792	71.742	.46830	.43235	.66571	.38571	46.812	.41335	.46439
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.58855	.56010	82.797	25.659	25.979	.44566	33.172	3.4855	.44556
Stddev	.00075	.00031	.172	.049	.298	.00025	.001	.0031	.00082
%RSD	.12792	.05469	.20747	.19100	1.1459	.05550	.00154	.08886	.18300
#1	.58909	.56032	82.675	25.694	26.190	.44549	33.171	3.4877	.44499
#2	.58802	.55989	82.918	25.624	25.769	.44584	33.172	3.4833	.44614
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	21.356	.49153	.72631	F 11.55	.36265	.30018	27.280	.43422	.52697
Stddev	.046	.00030	.00241	.02	.00103	.00052	.179	.00105	.00041
%RSD	.21736	.06139	.33239	.1593	.28410	.17409	.65729	.24279	.07839
#1	21.389	.49131	.72461	11.54	.36338	.29981	27.407	.43347	.52727
#2	21.323	.49174	.72802	11.56	.36192	.30055	27.153	.43496	.52668
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	4.2498	.42115	.55544	.90925
Stddev	.0022	.00094	.00029	.00052
%RSD	.05293	.22433	.05293	.05746
#1	4.2514	.42182	.55523	.90962
#2	4.2482	.42048	.55565	.90888
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3807.9	7000.7	64760.	10742.
Stddev	2.7	5.0	185.	15.
%RSD	.07053	.07071	.28568	.13950
#1	3809.8	7004.2	64630.	10731.
#2	3806.0	6997.2	64891.	10752.

Sample Name: CCV Acquired: 12/19/2012 21:52:19 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49729	23.210	.52132	.51788	.45800	.47034	23.913	.52041	.51665	.52089	.50705	22.739
Stddev	.00122	.417	.00189	.00081	.00765	.00787	.420	.00191	.00255	.00179	.00057	.431
%RSD	.24539	1.7983	.36294	.15555	1.6695	1.6731	1.7579	.36619	.49301	.34287	.11260	1.8964
#1	.49643	22.914	.52266	.51845	.45259	.46478	23.616	.52176	.51845	.51962	.50665	22.434
#2	.49815	23.505	.51998	.51731	.46341	.47591	24.210	.51906	.51485	.52215	.50745	23.044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.289	24.582	.46294	23.971	.48409	.54388	24.718	.51302	.53379	24.67	.51044	.51911
Stddev	.480	.302	.00801	.096	.00059	.00206	.482	.00195	.00464	.11	.00270	.00055
%RSD	1.9751	1.2266	1.7304	.40041	.12094	.37943	1.9515	.38083	.86867	.4368	.52816	.10644
#1	23.950	24.368	.45727	23.904	.48367	.54534	24.376	.51440	.53707	24.75	.51234	.51872
#2	24.628	24.795	.46860	24.039	.48450	.54242	25.059	.51164	.53051	24.60	.50853	.51950
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.672	.50911	.48714	.50030	.52614	.53170	F .56180
Stddev	.539	.00238	.00914	.00040	.00484	.00003	.00098
%RSD	2.2757	.46700	1.8758	.08024	.91943	.00483	.17420
#1	23.291	.51079	.48068	.50058	.52957	.53172	.56249
#2	24.053	.50742	.49360	.50001	.52272	.53168	.56111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							.50000
Range							10.000%

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3987.3	7001.0	64477.	10696.
Stddev	15.5	16.9	165.	168.
%RSD	.38875	.24081	.25646	1.5666
#1	3976.4	6989.1	64594.	10814.
#2	3998.3	7012.9	64361.	10577.

Sample Name: CCB Acquired: 12/19/2012 21:54:35 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00144**	**-.00707**	**-.00185**	**.00069**	**.00004**	**.00006**	**.00744**	**-.00003**	**-.00002**	**.00000**	**.00216**	**.00367**	**.01515**
Stddev	.00021	.00023	.00365	.00026	.00001	.00007	.00462	.00011	.00002	.00008	.00042	.00065	.02260
%RSD	14.385	3.1991	197.42	37.437	25.076	108.58	62.177	387.82	86.747	2916.4	19.452	17.573	149.18
#1	-.00130	-.00723	.00073	.00087	.00004	.00001	.01071	-.00010	-.00003	-.00005	.00187	.00413	-.00083
#2	-.00159	-.00691	-.00442	.00051	.00003	.00011	.00417	.00005	-.00001	.00006	.00246	.00322	.03113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00353**	**-.00136**	**-.00005**	**.00010**	**-.00013**	**.01565**	**-.00039**	**.00075**	**.0005**	**-.00061**	**-.00029**	**-.00185**	**-.00026**
Stddev	.00094	.00104	.00427	.00002	.00004	.00271	.00024	.00067	.0005	.00056	.00124	.00208	.00046
%RSD	26.574	77.017	8656.8	25.245	31.473	17.338	61.570	89.543	111.3	91.635	430.00	112.42	179.09
#1	.00419	-.00062	.00297	.00008	-.00010	.01757	-.00056	.00027	.0001	-.00100	-.00116	-.00038	.00007
#2	.00287	-.00209	-.00307	.00011	-.00016	.01373	-.00022	.00122	.0009	-.00021	.00059	-.00332	-.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**-.00024**	**-.00090**	**-.00016**	**.00052**
Stddev	.00012	.00007	.00204	.00015	.00050
%RSD	147.42	29.259	225.52	96.303	95.543
#1	-.00016	-.00029	.00054	-.00026	.00087
#2	.00000	-.00019	-.00234	-.00005	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4341.9**	**7156.1**	**65523.**	**10406.**
Stddev	4.8	34.0	228.	5.
%RSD	.11047	.47518	.34804	.04437
#1	4345.3	7180.1	65685.	10402.
#2	4338.5	7132.0	65362.	10409.

Sample Name: 480-30406-D-4-D MSD Acquired: 12/19/2012 21:56:55 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.09642	70.191	.43989	.41025	.67826	.37542	47.957	.39190	.43787
Stddev	.00379	.204	.00450	.00013	.00141	.00026	.094	.00012	.00148
%RSD	3.9278	.29119	1.0230	.03285	.20724	.06852	.19609	.03059	.33720
#1	.09910	70.336	.43670	.41015	.67925	.37524	48.024	.39199	.43892
#2	.09374	70.047	.44307	.41034	.67726	.37560	47.891	.39182	.43683
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.56096	.54170	81.720	24.721	25.333	.44719	31.862	3.6915	.42251
Stddev	.01867	.01563	.273	.099	.368	.00004	1.156	.1288	.00107
%RSD	3.3275	2.8855	.33364	.39855	1.4513	.00943	3.6269	3.4893	.25393
#1	.57416	.55275	81.528	24.652	25.593	.44722	32.679	3.7826	.42327
#2	.54776	.53065	81.913	24.791	25.073	.44716	31.045	3.6004	.42175
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.623	.46343	.67976	F 10.18	.34414	.29147	29.191	.40568	.53066
Stddev	.011	.00036	.00042	.01	.00121	.00078	.014	.00170	.00044
%RSD	.05154	.07676	.06245	.1176	.35267	.26710	.04905	.41905	.08338
#1	20.616	.46368	.68006	10.19	.34328	.29202	29.201	.40688	.53035
#2	20.631	.46318	.67946	10.17	.34500	.29092	29.181	.40447	.53098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	3.6758	.39619	.53860	.86779
Stddev	.1148	.00246	.01738	.03075
%RSD	3.1237	.62066	3.2270	3.5439
#1	3.7569	.39793	.55089	.88954
#2	3.5946	.39445	.52631	.84605
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3815.3	6968.7	64012.	10438.
Stddev	10.1	7.8	1953.	.
%RSD	.26402	.11178	3.0513	.00452
#1	3808.2	6963.2	62630.	10438.
#2	3822.4	6974.2	65393.	10438.

Sample Name: Cd 10 Acquired: 12/19/2012 21:59:09 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00105**	**.00388**	**-.00202**	**.00022**	**.00007**	**.00010**	**.00833**	**9.4743**	**.00013**
Stddev	.00068	.00325	.00013	.00018	.00002	.00003	.00304	.0140	.00028
%RSD	65.272	83.913	6.6746	80.490	28.062	28.121	36.512	.14769	210.32
#1	-.00153	.00158	-.00211	.00010	.00009	.00012	.01049	9.4842	.00033
#2	-.00056	.00618	-.00192	.00035	.00006	.00008	.00618	9.4644	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00126**	**.00194**	**.00782**	**.00101**	**.00311**	**-.00118**	**.00226**	**-.00012**	**-.00020**
Stddev	.00005	.00045	.00092	.01062	.00008	.00011	.00365	.00013	.00015
%RSD	3.8449	23.294	11.814	1055.1	2.4261	9.4574	161.99	114.25	74.910
#1	-.00130	.00226	.00848	-.00650	.00317	-.00126	.00484	-.00002	-.00031
#2	-.00123	.00162	.00717	.00852	.00306	-.00110	-.00033	-.00021	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.03048**	**-.00024**	**.00063**	F **-.0111**	**-.00004**	**.00052**	**.00239**	**-.00040**	**-.00031**
Stddev	.00844	.00027	.00104	.0005	.00199	.00009	.00035	.00020	.00005
%RSD	27.683	115.08	165.70	4.250	4893.8	17.775	14.613	50.017	16.888
#1	-.03645	-.00004	-.00011	-.0107	.00137	.00046	.00264	-.00054	-.00034
#2	-.02452	-.00043	.00136	-.0114	-.00145	.00059	.00214	-.00026	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00022**	**-.00098**	**.00015**	**.00033**
Stddev	.00035	.00050	.00014	.00016
%RSD	157.91	50.646	91.061	49.684
#1	-.00003	-.00133	.00005	.00022
#2	.00047	-.00063	.00025	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4380.0**	**7220.3**	**66553.**	**10335.**
Stddev	.8	2.8	1000.	28.
%RSD	.01817	.03905	1.5027	.27015
#1	4380.5	7222.3	65846.	10315.
#2	4379.4	7218.3	67261.	10355.

Sample Name: Cu 20 Acquired: 12/19/2012 22:01:25 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00146**	**-.01073**	**-.00070**	**-.00033**	**.00024**	**.00005**	**.00656**	**.00107**	**.00009**
Stddev	.00005	.01330	.00108	.00008	.00018	.00005	.00144	.00055	.00009
%RSD	3.7402	123.90	155.04	24.473	74.993	97.727	21.938	50.886	95.929
#1	-.00150	-.02013	-.00146	-.00039	.00011	.00002	.00758	.00146	.00003
#2	-.00143	-.00133	.00007	-.00028	.00037	.00008	.00554	.00069	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**10.056**	**.00248**	**.01781**	**.00740**	**-.00117**	**.00915**	**.00088**	**-.00005**
Stddev	.00016	.006	.00439	.00611	.00504	.00059	.00708	.00081	.00002
%RSD	294.58	.06462	176.87	34.286	68.148	50.234	77.437	91.678	38.688
#1	.00006	10.061	-.00062	.01349	.00383	-.00158	.00414	.00031	-.00004
#2	-.00017	10.052	.00559	.02213	.01096	-.00075	.01416	.00145	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00180**	**.00003**	**.00221**	**.0012**	**.00115**	**-.00110**	**-.01235**	**-.00005**	**-.00004**
Stddev	.00235	.00042	.00013	.0047	.00012	.00225	.01019	.00021	.00006
%RSD	130.79	1561.6	5.8131	408.8	10.590	205.32	82.550	439.05	132.74
#1	.00346	-.00027	.00212	.0045	.00106	.00050	-.01955	-.00020	.00000
#2	.00013	.00032	.00230	-.0022	.00124	-.00269	-.00514	.00010	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00085**	**-.00165**	**-.00024**	**.00066**
Stddev	.00090	.00010	.00053	.00085
%RSD	105.59	6.2491	218.40	128.02
#1	.00022	-.00157	-.00061	.00006
#2	.00148	-.00172	.00013	.00127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4335.3**	**7163.9**	**65020.**	**10346.**
Stddev	4.6	7.0	49.	33.
%RSD	.10704	.09706	.07593	.31464
#1	4338.6	7168.8	64985.	10369.
#2	4332.0	7159.0	65055.	10323.

Sample Name: Ti 40 Acquired: 12/19/2012 22:03:40 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00125**	**-.00067**	**.00000**	**.00043**	**.00002**	F **-.02047**	**.02104**	**.00047**	**.00807**
Stddev	.00049	.00954	.00051	.00009	.00000	.00037	.00388	.00024	.00074
%RSD	39.239	1414.5	59771.	21.543	2.7420	1.8262	18.420	51.353	9.1431
#1	-.00160	.00607	.00036	.00049	.00001	-.02021	.02378	.00030	.00755
#2	-.00091	-.00742	-.00036	.00036	.00002	-.02074	.01830	.00064	.00859
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						25.000			
Low Limit						-.00200			

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00097**	F **-.03443**	**.00539**	**-.03446**	**-.00046**	**-.00045**	**-.10909**	**-.00014**	**.00012**
Stddev	.00018	.00038	.00120	.02270	.00006	.00205	.00115	.00004	.00006
%RSD	18.913	1.1024	22.257	65.880	13.097	454.69	1.0572	29.657	46.432
#1	.00110	-.03470	.00624	-.05052	-.00042	.00100	-.10990	-.00011	.00016
#2	.00084	-.03416	.00454	-.01841	-.00050	-.00190	-.10827	-.00016	.00008
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		25.000							
Low Limit		-.01000							

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.03176**	**-.00021**	**-.00178**	F **-.0105**	**.01168**	**.00242**	**-.09929**	**.08735**	**-.00016**
Stddev	.00377	.00033	.00035	.0011	.00107	.00027	.15136	.00090	.00018
%RSD	11.863	159.77	19.443	10.22	9.1546	11.104	152.44	1.0352	118.61
#1	-.03442	.00003	-.00202	-.0097	.01243	.00261	-.20632	.08799	-.00003
#2	-.02909	-.00044	-.00153	-.0113	.01092	.00223	.00774	.08671	-.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**36.384**	**-.00489**	**.00505**	**-.00151**
Stddev	.362	.00137	.00031	.00029
%RSD	.99547	27.950	6.1109	19.217
#1	36.640	-.00585	.00483	-.00131
#2	36.128	-.00392	.00527	-.00172
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4392.2**	**7264.6**	**66270.**	**10424.**
Stddev	7.6	9.4	251.	20.
%RSD	.17380	.12939	.37923	.19394
#1	4397.6	7271.2	66092.	10439.
#2	4386.8	7258.0	66448.	10410.

Sample Name: V 40 Acquired: 12/19/2012 22:05:57 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00223	-.02427	-.00201	-.00119	.00011	-.00040	.01075	.00268	.00022
Stddev	.00003	.00953	.00140	.00040	.00001	.00002	.00046	.00011	.00001
%RSD	1.2536	39.266	69.488	33.348	5.2043	4.5116	4.2913	4.1696	2.8248
#1	.00221	-.03101	-.00102	-.00091	.00012	-.00039	.01043	.00260	.00022
#2	.00225	-.01753	-.00300	-.00147	.00011	-.00041	.01108	.00275	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00238	F -.01067	.00086	-.01999	.00142	-.00099	.00140	-.00141	-.00880
Stddev	.00066	.00024	.00303	.07966	.00035	.00053	.00448	.00005	.00009
%RSD	27.693	2.2820	351.01	398.44	24.582	53.503	320.32	3.4264	1.0069
#1	-.00191	-.01085	-.00128	.03633	.00166	-.00062	.00457	-.00138	-.00886
#2	-.00284	-.01050	.00301	-.07632	.00117	-.00137	-.00177	-.00144	-.00874
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		25.000							
Low Limit		-.01000							

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.07419	-.00037	-.00238	-.0047	.00391	.00255	.05924	-.00018	-.00025
Stddev	.00338	.00016	.00109	.0026	.00141	.00339	.00855	.00040	.00004
%RSD	4.5584	44.333	45.865	54.87	36.083	133.03	14.437	218.19	15.445
#1	.07658	-.00025	-.00161	-.0065	.00490	.00015	.05319	-.00047	-.00022
#2	.07180	-.00048	-.00315	-.0029	.00291	.00494	.06528	.00010	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	.00657	F -.02102	40.677	.00055
Stddev	.00037	.00155	.029	.00034
%RSD	5.6701	7.3581	.07026	61.307
#1	.00684	-.01992	40.656	.00031
#2	.00631	-.02211	40.697	.00079
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit		40.000		
Low Limit		-.02000		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4388.1	7273.0	66037.	10307.
Stddev	5.7	4.3	30.	61.
%RSD	.13051	.05855	.04540	.59653
#1	4384.1	7270.0	66016.	10264.
#2	4392.2	7276.0	66058.	10350.

Sample Name: 30250-3 tot raw Acquired: 12/19/2012 22:08:16 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00083**	**.13011**	**.00302**	**.02206**	**.04849**	**.00004**	**97.596**	**.00024**	**.00005**
Stddev	.00020	.01213	.00079	.00039	.00008	.00008	.112	.00027	.00003
%RSD	24.614	9.3199	26.019	1.7764	.16367	228.84	.11512	111.86	50.876
#1	-.00068	.12153	.00358	.02233	.04843	.00010	97.517	.00043	.00003
#2	-.00097	.13868	.00247	.02178	.04855	-.00002	97.676	.00005	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**.00205**	**.68930**	**1.3572**	**1.6392**	**.01535**	**30.452**	**.09597**	**.00391**
Stddev	.00006	.00010	.00109	.0325	.0119	.00028	.003	.00012	.00007
%RSD	18.169	4.7786	.15874	2.3923	.72640	1.8150	.00967	.12457	1.7942
#1	.00037	.00211	.69007	1.3802	1.6476	.01516	30.450	.09606	.00386
#2	.00029	.00198	.68853	1.3343	1.6308	.01555	30.454	.09589	.00395
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.4400**	**.00042**	**-.00012**	F **37.92**	**-.00072**	**.00395**	**6.6163**	**-.00076**	**.19631**
Stddev	.0086	.00034	.00018	.09	.00038	.00249	.0452	.00073	.00124
%RSD	.09082	81.539	150.43	.2471	52.832	63.021	.68332	96.395	.63362
#1	9.4340	.00018	.00001	37.86	-.00099	.00219	6.5843	-.00024	.19543
#2	9.4461	.00066	-.00025	37.99	-.00045	.00572	6.6482	-.00127	.19719
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00706**	**.00007**	**.00430**	**.00150**
Stddev	.00116	.00008	.00096	.00033
%RSD	16.478	108.89	22.302	22.085
#1	.00624	.00013	.00498	.00173
#2	.00788	.00002	.00362	.00126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4178.5**	**7176.4**	**65345.**	**10469.**
Stddev	22.3	21.6	175.	32.
%RSD	.53472	.30158	.26727	.30408
#1	4194.3	7191.7	65468.	10446.
#2	4162.7	7161.1	65221.	10491.

Sample Name: 30250-7 tot raw Acquired: 12/19/2012 22:10:25 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00155**	**2.0460**	**.00409**	**.03827**	**.13985**	**.00006**	**100.60**	**.00228**	**.00150**
Stddev	.00004	.0154	.00222	.00014	.00001	.00005	.23	.00015	.00007
%RSD	2.3185	.75084	54.386	.35297	.00539	86.409	.22536	6.3677	4.9677
#1	-.00158	2.0569	.00252	.03817	.13984	.00002	100.76	.00239	.00145
#2	-.00153	2.0351	.00566	.03836	.13985	.00009	100.44	.00218	.00156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00345**	**.00647**	**3.2555**	**2.2145**	**2.7437**	**.02089**	**34.130**	**.18890**	**.00359**
Stddev	.00054	.00002	.0159	.0366	.0080	.00054	.013	.00058	.00010
%RSD	15.603	.33850	.48849	1.6542	.29191	2.5616	.03768	.30587	2.7299
#1	.00383	.00649	3.2668	2.2404	2.7494	.02051	34.121	.18850	.00366
#2	.00307	.00645	3.2443	2.1886	2.7380	.02127	34.139	.18931	.00353
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.834**	**.00414**	**.00438**	F **26.79**	**.00062**	**.00035**	**11.198**	**-.00053**	**.31173**
Stddev	.045	.00022	.00049	.07	.00099	.00292	.070	.00009	.00009
%RSD	.38373	5.4370	11.228	.2455	159.86	827.85	.62908	17.520	.02863
#1	11.866	.00398	.00403	26.74	.00133	.00242	11.247	-.00046	.31179
#2	11.802	.00429	.00473	26.83	-.00008	-.00171	11.148	-.00059	.31167
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.07493**	**-.00116**	**.00472**	**.02163**
Stddev	.00024	.00096	.00011	.00001
%RSD	.31731	82.653	2.2278	.04242
#1	.07476	-.00048	.00480	.02164
#2	.07509	-.00183	.00465	.02162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4136.9**	**7177.3**	**64672.**	**10404.**
Stddev	17.4	20.8	259.	1.
%RSD	.42160	.29002	.40089	.01401
#1	4149.2	7192.0	64855.	10403.
#2	4124.5	7162.6	64489.	10405.

Sample Name: 30250-8 tot raw Acquired: 12/19/2012 22:12:36 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00172**	**3.2101**	**.00338**	**.01576**	**.38657**	**.00018**	**112.80**	**-.00012**	**.00328**
Stddev	.00164	.0603	.00148	.00023	.00001	.00004	.62	.00015	.00001
%RSD	95.140	1.8781	43.741	1.4865	.00337	23.901	.55047	124.24	.21194
#1	-.00056	3.2528	.00233	.01560	.38656	.00015	113.24	-.00023	.00327
#2	-.00288	3.1675	.00442	.01593	.38658	.00021	112.36	-.00002	.00328
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00503**	**.01252**	**5.1960**	**2.4144**	**3.1344**	**.02691**	**35.937**	**.18416**	**.00292**
Stddev	.00039	.00051	.0175	.0466	.0161	.00104	.040	.00011	.00004
%RSD	7.8285	4.0697	.33616	1.9302	.51295	3.8781	.11060	.06007	1.5200
#1	.00531	.01216	5.2084	2.4473	3.1458	.02764	35.909	.18424	.00295
#2	.00475	.01288	5.1837	2.3814	3.1231	.02617	35.965	.18409	.00289
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**27.513**	**.00735**	**.00664**	F **16.07**	**-.00106**	**.00128**	**11.401**	**-.00022**	**.28356**
Stddev	.090	.00008	.00119	.03	.00029	.00313	.036	.00031	.00045
%RSD	.32656	1.0720	17.878	.1832	27.189	244.45	.31950	145.86	.15848
#1	27.577	.00741	.00748	16.05	-.00127	-.00093	11.427	.00001	.28388
#2	27.450	.00730	.00580	16.09	-.00086	.00350	11.375	-.00044	.28324
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.09120**	**-.00037**	**.00760**	**.02022**
Stddev	.00375	.00174	.00061	.00037
%RSD	4.1154	471.42	7.9898	1.8163
#1	.09386	-.00160	.00803	.02048
#2	.08855	.00086	.00717	.01996
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4058.1**	**7131.1**	**63945.**	**10336.**
Stddev	13.4	28.2	76.	24.
%RSD	.33048	.39609	.11821	.23602
#1	4067.6	7151.1	63998.	10353.
#2	4048.6	7111.1	63891.	10319.

Sample Name: 30207-5 tot raw Acquired: 12/19/2012 22:14:47 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00091**	**.01343**	**.00177**	**.04910**	**.09631**	**.00002**	**156.13**	**.00034**	**.00007**
Stddev	.00021	.00397	.00281	.00033	.00008	.00009	.09	.00010	.00006
%RSD	23.253	29.589	158.88	.67239	.08110	546.79	.06051	28.826	85.581
#1	-.00076	.01062	.00376	.04933	.09626	-.00004	156.20	.00027	.00012
#2	-.00106	.01624	-.00022	.04886	.09637	.00008	156.07	.00040	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00050**	**.18571**	**-.00004**	**1.5780**	**2.0769**	**.01375**	**30.938**	**.35608**	**.00065**
Stddev	.00006	.00094	.00211	.0383	.0080	.00106	.107	.00175	.00015
%RSD	11.781	.50532	4802.8	2.4269	.38562	7.7200	.34598	.49286	23.936
#1	.00046	.18504	.00145	1.6050	2.0825	.01300	30.863	.35483	.00076
#2	.00055	.18637	-.00154	1.5509	2.0712	.01450	31.014	.35732	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.772**	**.00134**	**.00164**	F **10.78**	**-.00009**	**-.00034**	**9.8236**	**-.00052**	**.97747**
Stddev	.000	.00029	.00083	.01	.00183	.00148	.0282	.00012	.00393
%RSD	.00240	21.806	50.574	.1348	2114.1	431.37	.28661	23.815	.40166
#1	17.772	.00154	.00105	10.79	-.00138	-.00139	9.8435	-.00043	.97469
#2	17.772	.00113	.00222	10.77	.00121	.00070	9.8037	-.00060	.98025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00154**	**-.00009**	**.00336**	**.11307**
Stddev	.00050	.00125	.00003	.00090
%RSD	32.515	1421.1	.85530	.79936
#1	.00190	-.00097	.00334	.11243
#2	.00119	.00080	.00338	.11371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4001.9**	**6982.2**	**63682.**	**10379.**
Stddev	4.1	1.9	296.	13.
%RSD	.10342	.02768	.46544	.12083
#1	4004.8	6983.5	63892.	10370.
#2	3998.9	6980.8	63473.	10388.

Sample Name: 30208-5 tot raw Acquired: 12/19/2012 22:16:59 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00103**	**.00839**	**-.00088**	**.24812**	**.17213**	**.00026**	**26.876**	**.00118**	**.22808**
Stddev	.00030	.00199	.00239	.00043	.00021	.00000	.004	.00000	.00021
%RSD	28.890	23.759	270.16	.17346	.11994	1.4853	.01516	.04385	.09266
#1	-.00082	.00698	.00080	.24782	.17228	.00026	26.873	.00118	.22793
#2	-.00124	.00979	-.00257	.24842	.17199	.00027	26.879	.00118	.22823
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**.00381**	**.69705**	**29.550**	**40.294**	**.00270**	**23.126**	**2.1290**	**-.00025**
Stddev	.00045	.00023	.00493	.017	.143	.00018	.028	.0000	.00003
%RSD	81.181	6.0811	.70745	.05907	.35493	6.8186	.11968	.00106	13.239
#1	.00024	.00397	.70054	29.562	40.193	.00257	23.146	2.1291	-.00027
#2	.00088	.00365	.69356	29.537	40.395	.00283	23.106	2.1290	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**146.01**	**.05420**	**.00068**	F **25.95**	**.00010**	**.00305**	**3.0868**	**.00035**	**.20043**
Stddev	.10	.00018	.00049	.04	.00102	.00115	.0212	.00004	.00024
%RSD	.06996	.32773	72.270	.1453	993.34	37.844	.68713	10.059	.12148
#1	145.94	.05407	.00033	25.92	.00082	.00223	3.0718	.00033	.20026
#2	146.08	.05432	.00103	25.97	-.00062	.00386	3.1018	.00038	.20061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00					
Low Limit				-.0100					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.00026**	**.00107**	**.00150**	**.02874**
Stddev	.00006	.00031	.00073	.00011
%RSD	22.088	28.913	48.825	.38741
#1	.00022	.00085	.00202	.02882
#2	.00030	.00129	.00098	.02866
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3980.9**	**7108.6**	**63761.**	**10442.**
Stddev	6.1	8.8	157.	33.
%RSD	.15218	.12399	.24612	.31363
#1	3985.1	7114.8	63650.	10466.
#2	3976.6	7102.4	63872.	10419.

Sample Name: CCV Acquired: 12/19/2012 22:19:15 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51081	24.944	.50833	.50697	.50396	.49884	25.392	.51057	.50633	.51566	.51338	24.035	25.577
Stddev	.00254	.825	.00336	.00045	.01760	.01643	.868	.00038	.00094	.00013	.00036	.824	.804
%RSD	.49761	3.3060	.66051	.08888	3.4931	3.2937	3.4189	.07415	.18593	.02580	.07105	3.4292	3.1436
#1	.50901	25.527	.51070	.50665	.51640	.51046	26.006	.51083	.50567	.51557	.51312	24.618	26.145
#2	.51260	24.361	.50595	.50729	.49151	.48722	24.779	.51030	.50700	.51576	.51364	23.452	25.008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.019	.50225	24.608	.50653	.52375	25.793	.50259	.51445	24.38	.50853	.51091	24.962	.51386
Stddev	.671	.01699	.005	.00085	.00018	.910	.00011	.00131	.00	.00022	.00101	.839	.00054
%RSD	2.5785	3.3818	.02179	.16747	.03429	3.5273	.02273	.25453	.0065	.04366	.19750	3.3624	.10421
#1	26.493	.51426	24.604	.50593	.52388	26.436	.50251	.51352	24.38	.50869	.51162	25.555	.51349
#2	25.545	.49024	24.611	.50713	.52363	25.150	.50267	.51537	24.38	.50837	.51019	24.368	.51424
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	.51204	.50565	.51075	.52535	.53539
Stddev	.01799	.00312	.00089	.00346	.00041
%RSD	3.5127	.61614	.17522	.65940	.07603
#1	.52475	.50344	.51012	.52780	.53510
#2	.49932	.50785	.51138	.52290	.53568
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3961.0	6993.5	63287.	9985.6
Stddev	3.8	20.0	74.	234.8
%RSD	.09471	.28627	.11752	2.3510
#1	3958.3	6979.3	63234.	9819.6
#2	3963.6	7007.7	63339.	10152.

Sample Name: CCB Acquired: 12/19/2012 22:21:24 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00135**	**.02041**	**.00065**	**.00011**	**.00006**	**.00006**	**.00672**	**.00000**	**-.00001**	**-.00041**	**.00130**	**.00211**	**-.00273**
Stddev	.00056	.00206	.00196	.00022	.00000	.00010	.00047	.0001	.00000	.00049	.00055	.00123	.04695
%RSD	41.600	10.080	302.15	202.04	4.7907	155.83	6.9989	3256.5	32.268	119.08	42.036	58.558	1717.0
#1	-.00096	.02186	.00204	-.00005	.00005	.00013	.00639	.00006	-.00002	-.00075	.00169	.00124	.03046
#2	-.00175	.01895	-.00074	.00027	.00006	-.00001	.00705	-.00007	-.00001	-.00006	.00092	.00298	-.03593
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00458**	**.00050**	**-.00005**	**.00015**	**.00025**	**.02024**	**-.00029**	**-.00015**	F **.0047**	**-.00056**	**-.00045**	**-.00524**	**-.00058**
Stddev	.00070	.00048	.00391	.00002	.00001	.00201	.00019	.00042	.0033	.00027	.00108	.00430	.00005
%RSD	15.230	97.272	7236.3	12.831	6.0180	9.9183	66.951	287.63	69.35	48.736	237.54	82.042	9.4672
#1	.00507	.00016	.00271	.00016	.00026	.02166	-.00042	.00015	.0071	-.00037	.00031	-.00827	-.00054
#2	.00408	.00084	-.00282	.00014	.00024	.01882	-.00015	-.00044	.0024	-.00075	-.00121	-.00220	-.00062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									.0030				
Low Limit									-.0040				

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.00020**	**-.00203**	**-.00008**	**-.00009**
Stddev	.00001	.00011	.00024	.00051	.00007
%RSD	17.039	56.277	11.964	608.68	78.527
#1	-.00007	.00028	-.00220	.00027	-.00004
#2	-.00006	.00012	-.00186	-.00044	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4316.0**	**7164.9**	**64989.**	**10170.**
Stddev	8.6	9.5	108.	30.
%RSD	.19971	.13294	.16555	.29457
#1	4309.9	7158.2	65065.	10148.
#2	4322.1	7171.6	64913.	10191.

Sample Name: RB Acquired: 12/19/2012 22:23:36 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00065**	**-.01673**	**-.00145**	**-.00013**	**.00002**	**-.00002**	**.01089**	**.00012**	**.00008**
Stddev	.00019	.00397	.00119	.00048	.00000	.00011	.00153	.00000	.00004
%RSD	29.187	23.710	82.286	357.64	.95529	519.67	14.076	.46143	54.380
#1	-.00078	-.01953	-.00060	-.00047	.00002	-.00010	.00981	.00012	.00005
#2	-.00051	-.01392	-.00229	.00020	.00002	.00006	.01198	.00012	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.00112**	**.00086**	**-.02376**	**.00226**	**-.00049**	**-.00401**	**.00003**	**-.00008**
Stddev	.00015	.00026	.00272	.00735	.00113	.00069	.00518	.00009	.00010
%RSD	160.56	23.242	317.48	30.939	50.017	140.35	129.28	282.26	127.49
#1	-.00001	.00131	-.00107	-.01857	.00146	.00000	-.00034	.00009	-.00015
#2	.00020	.00094	.00278	-.02896	.00306	-.00098	-.00767	-.00003	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00718**	**-.00041**	**-.00086**	**-.0018**	**.00081**	**-.00018**	**-.00429**	**-.00022**	**-.00008**
Stddev	.00257	.00002	.00003	.0024	.00195	.00231	.00994	.00041	.00007
%RSD	35.764	5.3827	2.9369	135.0	241.20	1282.1	231.93	181.95	83.320
#1	.00899	-.00043	-.00087	-.0001	-.00057	.00145	-.01132	.00006	-.00013
#2	.00536	-.00040	-.00084	-.0035	.00218	-.00181	.00274	-.00051	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**-.00039**	**-.00096**	**.00021**	**.00011**
Stddev	.00011	.00025	.00041	.00005
%RSD	27.932	26.328	197.55	50.467
#1	-.00031	-.00078	-.00008	.00015
#2	-.00046	-.00114	.00050	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4330.8**	**7189.9**	**65423.**	**10018.**
Stddev	4.5	16.0	387.	58.
%RSD	.10477	.22317	.59187	.57932
#1	4334.0	7201.3	65149.	9977.3
#2	4327.6	7178.6	65697.	10059.

Sample Name: RB Acquired: 12/19/2012 22:25:49 Type: Unk
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00056**	**.01702**	**-.00039**	**-.00055**	**.00002**	**.00000**	**.00967**	**-.00008**	**-.00005**
Stddev	.00069	.01420	.00029	.00011	.00001	.00001	.00311	.00003	.00037
%RSD	123.13	83.413	72.985	19.736	30.016	464.01	32.163	41.999	674.05
#1	-.00105	.00698	-.00019	-.00047	.00001	.00001	.00747	-.00005	.00021
#2	-.00007	.02706	-.00060	-.00063	.00002	-.00001	.01187	-.00010	-.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00098**	**.00093**	**-.00314**	**-.00962**	**.00238**	**-.00010**	**.00147**	**.00011**	**-.00002**
Stddev	.00029	.00007	.00407	.04424	.00059	.00049	.00041	.00004	.00012
%RSD	29.347	7.4257	129.52	459.67	24.840	466.48	27.900	32.214	747.76
#1	-.00077	.00098	-.00026	-.04090	.00280	.00024	.00118	.00014	-.00010
#2	-.00118	.00088	-.00602	.02166	.00196	-.00045	.00176	.00009	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00210**	**-.00033**	**-.00039**	**-.0029**	**.00141**	**.00096**	**-.01885**	**-.00003**	**-.00009**
Stddev	.00040	.00013	.00140	.0019	.00006	.00157	.00106	.00026	.00008
%RSD	19.008	37.615	364.29	64.16	4.5606	163.30	5.6229	956.70	81.716
#1	.00238	-.00025	-.00138	-.0016	.00146	-.00015	-.01960	-.00021	-.00004
#2	.00181	-.00042	.00061	-.0043	.00136	.00207	-.01810	.00016	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**-.00027**	**-.00133**	**-.00001**	**.00029**
Stddev	.00010	.00144	.00016	.00027
%RSD	36.543	108.52	1370.3	92.990
#1	-.00034	-.00031	.00010	.00047
#2	-.00020	-.00234	-.00012	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4330.5**	**7184.9**	**65794.**	**10109.**
Stddev	4.6	2.1	239.	10.
%RSD	.10523	.02969	.36295	.09971
#1	4327.3	7183.4	65625.	10117.
#2	4333.7	7186.4	65963.	10102.

Sample Name: CRI-1107665 Acquired: 12/19/2012 22:28:05 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W .00155	.20430	.01133	.02348	.00218	.00201	.55948	.00110	.00402	.00417	.01181	.04957
Stddev	.00059	.01007	.00097	.00007	.00003	.00000	.00497	.00019	.00002	.00009	.00024	.00105
%RSD	37.986	4.9268	8.5947	.28028	1.5378	.20476	.88891	17.066	.48536	2.0589	2.0743	2.1087
#1	.00113	.21141	.01064	.02344	.00220	.00201	.55596	.00097	.00400	.00423	.01198	.05031
#2	.00197	.19718	.01202	.02353	.00216	.00201	.56300	.00123	.00403	.00411	.01164	.04883
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.00300											
Range	-30.000%											

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50615	.40029	.03027	.20647	.00306	.01093	.99423	.00919	.00565	F .0526	.02026	.01372
Stddev	.00959	.00099	.00031	.00180	.00004	.00002	.00223	.00019	.00076	.0058	.00020	.00001
%RSD	1.8950	.24709	1.0105	.86953	1.4252	.14832	.22424	2.0458	13.413	11.06	.97505	.06795
#1	.51293	.39959	.03005	.20774	.00310	.01094	.99266	.00932	.00618	.0568	.02040	.01373
#2	.49937	.40099	.03049	.20520	.00303	.01092	.99581	.00906	.00511	.0485	.02012	.01371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value										.0030		
Range										50.00%		

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51178	W .00527	.00526	.00503	.01809	.00551	.01251
Stddev	.00960	.00026	.00006	.00026	.00094	.00017	.00008
%RSD	1.8754	4.8652	1.1781	5.2144	5.2053	3.1697	.63096
#1	.50499	.00545	.00530	.00484	.01743	.00564	.01245
#2	.51857	.00509	.00522	.00521	.01876	.00539	.01256
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		.01000					
Range		-30.000%					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4365.7	7265.6	65997.	10223.
Stddev	4.0	4.7	52.	2.
%RSD	.09074	.06465	.07919	.01878
#1	4368.5	7268.9	65960.	10222.
#2	4362.9	7262.3	66034.	10225.

Sample Name: ICSA-1101769 Acquired: 12/19/2012 22:30:22 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00283	479.06	.00328	-.00092	.00041	-.00009	464.34	-.00099	-.00066	.00156	.00376	175.50	-.01173
Stddev	.00074	1.18	.00662	.00027	.00001	.00002	3.42	.00021	.00022	.00062	.00024	1.01	.01343
%RSD	26.302	.24643	201.59	29.160	1.3248	27.090	.73707	20.905	32.867	40.058	6.2531	.57467	114.46
#1	-.00230	479.90	.00796	-.00111	.00041	-.00007	466.76	-.00113	-.00050	.00200	.00359	176.21	-.02123
#2	-.00335	478.23	-.00140	-.00073	.00042	-.00011	461.92	-.00084	-.00081	.00112	.00393	174.78	-.00224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00347	.00394	508.98	.00134	-.00102	-.00380	.00084	-.00385	F -.1611	-.00172	-.00015	-.01047	-.00021
Stddev	.00036	.00061	1.46	.00006	.00006	.00606	.00034	.00176	.0013	.00264	.00049	.00021	.00117
%RSD	10.489	15.445	.28689	4.3221	5.7071	159.74	40.478	45.663	.8299	153.71	319.09	2.0155	555.61
#1	.00372	.00351	507.95	.00130	-.00097	.00049	.00108	-.00261	-.1620	.00015	.00019	-.01062	-.00104
#2	.00321	.00437	510.01	.00138	-.00106	-.00808	.00060	-.00510	-.1601	-.00358	-.00050	-.01032	.00062
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass
High Limit									.0060				
Low Limit									-.0060				

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00535	.00488	-.00073	.00089	.00146
Stddev	.00004	.00049	.00738	.00035	.00112
%RSD	.65585	10.091	1013.5	38.655	76.564
#1	.00532	.00453	-.00595	.00065	.00225
#2	.00537	.00523	.00449	.00114	.00067
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3207.5	6250.6	56234.	9692.5
Stddev	10.0	14.3	269.	86.8
%RSD	.31030	.22852	.47852	.89510
#1	3214.5	6260.7	56044.	9631.2
#2	3200.4	6240.5	56424.	9753.9

Sample Name: ICSAB-1086099 Acquired: 12/19/2012 22:32:47 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21634	491.83	.10484	.00140	.48648	.48659	463.45	1.0400	.50853	.50413	.53789	88.035	.01537
Stddev	.00185	.27	.00155	.00021	.00010	.00094	.31	.0053	.00125	.00214	.00000	.385	.00176
%RSD	.85349	.05560	1.4745	15.240	.01990	.19389	.06780	.51218	.24501	.42386	.00050	.43716	11.424
#1	.21503	491.63	.10375	.00125	.48641	.48592	463.68	1.0438	.50941	.50564	.53790	87.763	.01412
#2	.21764	492.02	.10594	.00155	.48655	.48726	463.23	1.0362	.50765	.50262	.53789	88.307	.01661
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value													
Range													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01561	.51319	519.70	.46935	-.00035	.03615	1.0017	.05200	F -.1401	.60400	.05048	1.0061	.00043
Stddev	.00003	.00113	2.53	.00056	.00055	.00612	.0064	.00339	.0001	.00461	.00576	.0094	.00002
%RSD	.20670	.22021	.48624	.11936	156.30	16.943	.63886	6.5113	.0359	.76250	11.403	.93406	5.3437
#1	.01559	.51239	521.49	.46895	.00004	.03182	1.0063	.05439	-.1401	.60726	.05455	1.0128	.00045
#2	.01563	.51399	517.92	.46974	-.00074	.04048	.99721	.04961	-.1400	.60075	.04641	.99950	.00042
Check ?	None	None	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	None
Value									.2000				
Range									-20.00%				

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	.50013	.00484	.09723	.51143	1.0452
Stddev	.00098	.00007	.00137	.00006	.0001
%RSD	.19505	1.5361	1.4080	.01098	.00673
#1	.49944	.00478	.09820	.51146	1.0453
#2	.50082	.00489	.09626	.51139	1.0452
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3248.2	6308.3	56928.	9775.4
Stddev	4.0	12.8	68.	30.1
%RSD	.12171	.20357	.11919	.30802
#1	3245.4	6299.2	56976.	9754.1
#2	3251.0	6317.3	56880.	9796.7

Sample Name: CCV Acquired: 12/19/2012 22:35:33 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51138	24.624	.50990	.50794	.49742	.49446	25.156	.51318	.51029	.51836	.51481	23.817	25.315
Stddev	.00356	.114	.00587	.00144	.00117	.00024	.079	.00274	.00272	.00248	.00234	.033	.034
%RSD	.69619	.46143	1.1503	.28284	.23494	.04770	.31262	.53429	.53373	.47861	.45375	.13712	.13582
#1	.51390	24.705	.51405	.50895	.49824	.49463	25.212	.51512	.51222	.52011	.51646	23.840	25.339
#2	.50887	24.544	.50575	.50692	.49659	.49429	25.101	.51124	.50836	.51660	.51316	23.794	25.290
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.361	.49479	24.819	.51061	.52378	25.321	.50713	.51419	24.58	.51205	.50556	24.764	.52230
Stddev	.096	.00019	.173	.00497	.00254	.068	.00344	.00190	.11	.00280	.00015	.130	.00414
%RSD	.36447	.03919	.69742	.97348	.48484	.26844	.67891	.36921	.4650	.54745	.03051	.52466	.79256
#1	26.429	.49465	24.941	.51413	.52558	25.369	.50956	.51553	24.66	.51403	.50545	24.856	.52523
#2	26.293	.49492	24.696	.50710	.52198	25.272	.50469	.51285	24.50	.51007	.50567	24.672	.51937
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	.50451	.51042	.51504	.52580	.53840
Stddev	.00151	.00269	.00234	.00215	.00096
%RSD	.29850	.52702	.45473	.40942	.17758
#1	.50558	.51232	.51669	.52732	.53772
#2	.50345	.50852	.51338	.52428	.53907
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3943.6	6992.5	63449.	10002.
Stddev	22.6	36.0	301.	9.
%RSD	.57383	.51530	.47479	.09382
#1	3927.6	6967.1	63236.	9995.2
#2	3959.6	7018.0	63662.	10008.

Sample Name: CCB Acquired: 12/19/2012 22:38:12 Type: QC
Method: ICAP1(v396) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00150**	**-.00421**	**-.00066**	**-.00010**	**.00005**	**.00003**	**.01554**	**.00005**	**.00009**	**-.00054**	**.00093**	**.00289**	**-.02279**
Stddev	.00056	.00227	.00234	.00041	.00003	.00007	.00039	.00002	.00018	.00013	.00009	.00025	.00174
%RSD	37.223	53.839	352.15	404.26	58.598	279.88	2.4954	40.582	188.77	24.413	9.4834	8.7566	7.6177
#1	-.00110	-.00582	-.00232	.00019	.00008	-.00003	.01526	.00004	.00022	-.00064	.00099	.00271	-.02401
#2	-.00189	-.00261	.00099	-.00039	.00003	.00008	.01581	.00006	-.00003	-.00045	.00087	.00307	-.02156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00333**	**-.00080**	**.01102**	**.00002**	**.00014**	**-.00139**	**-.00001**	**.00000**	**-.0009**	**.00087**	**.00069**	**-.00248**	**-.00043**
Stddev	.00036	.00094	.00510	.00004	.00008	.01254	.00023	.0010	.0036	.00090	.00091	.01816	.00022
%RSD	10.929	116.51	46.326	196.69	56.491	899.29	1996.4	78608.	390.1	103.06	132.06	732.09	51.448
#1	.00359	-.00014	.00741	-.00001	.00008	-.01026	-.00018	-.00071	-.0034	.00024	.00133	.01036	-.00059
#2	.00308	-.00146	.01463	.00005	.00019	.00747	.00015	.00071	.0016	.00151	.00005	-.01532	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00015**	**-.00130**	**.00021**	**.00020**
Stddev	.00011	.00000	.00127	.00053	.00007
%RSD	65.099	3.3269	97.903	246.41	33.603
#1	-.00024	.00014	-.00220	.00059	.00024
#2	-.00009	.00015	-.00040	-.00016	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4303.4**	**7153.4**	**65173.**	**10115.**
Stddev	13.6	28.1	162.	26.
%RSD	.31514	.39338	.24780	.25356
#1	4293.8	7133.5	65059.	10133.
#2	4313.0	7173.3	65287.	10097.

Run File: I2122012A Instrument: ICAP2

Analyst: MDM Data Review: MDM 12/20/12

Spikes IDs: 947999(W1), 947970 (W2), 1086209(Sn), 986484(Ag), 827410 (Si), 565444(TCLP)
Pipette IDs: 11-12-12-(1-7,8,10,13,14)
Internal Standard: 1092944

Seq#	Run File ID	Sample ID	Date / Time	Type
1	I2122012A	IC-1118274	12/20/12 11:43 AM	Standard
2	I2122012A	IC-1112371	12/20/12 11:45 AM	Standard
3	I2122012A	IC-1112370	12/20/12 11:47 AM	Standard
4	I2122012A	IC-1112366	12/20/12 11:49 AM	Standard
5	I2122012A	ICV-1120773	12/20/12 11:52 AM	QC
6	I2122012A	ICB-1118274	12/20/12 11:54 AM	QC
7	I2122012A	CRI-1107665	12/20/12 11:56 AM	QC
8	I2122012A	ICSA-1101769	12/20/12 11:58 AM	QC
9	I2122012A	ICSAB-1086099	12/20/12 12:01 PM	QC
10	I2122012A	CCV-1107667	12/20/12 12:03 PM	QC
11	I2122012A	CCB-1118274	12/20/12 12:05 PM	QC
12	I2122012A	LB 480-96369/1-B	12/20/12 12:07 PM	Unknown
13	I2122012A	MB 480-96555/2-A	12/20/12 12:10 PM	Unknown
14	I2122012A	LCS 480-96555/3-A	12/20/12 12:12 PM	Unknown
15	I2122012A	CCV	12/20/12 12:14 PM	QC
16	I2122012A	CCB	12/20/12 12:17 PM	QC
17	I2122012A	480-30402-B-5-A@5	12/20/12 12:19 PM	Unknown
18	I2122012A	480-30342-F-8-B	12/20/12 12:21 PM	Unknown
19	I2122012A	480-30409-A-1-B	12/20/12 12:23 PM	Unknown
20	I2122012A	480-30387-A-1-B	12/20/12 12:26 PM	Unknown
21	I2122012A	480-30387-A-1-B@2	12/20/12 12:28 PM	Unknown
22	I2122012A	480-30406-E-1-D	12/20/12 12:30 PM	Unknown
23	I2122012A	480-30406-E-2-B	12/20/12 12:33 PM	Unknown
24	I2122012A	480-30406-D-3-B	12/20/12 12:35 PM	Unknown
25	I2122012A	480-30406-D-4-B	12/20/12 12:37 PM	Unknown
26	I2122012A	480-30406-D-4-B SD@5	12/20/12 12:39 PM	Unknown
27	I2122012A	CCV	12/20/12 12:41 PM	QC
28	I2122012A	CCB	12/20/12 12:44 PM	QC
29	I2122012A	480-30406-D-4-B PDS	12/20/12 12:46 PM	Unknown
30	I2122012A	480-30406-D-4-C MS	12/20/12 12:48 PM	Unknown
31	I2122012A	480-30406-D-4-D MSD	12/20/12 12:50 PM	Unknown
32	I2122012A	480-30367-Q-6-A	12/20/12 12:53 PM	Unknown
33	I2122012A	480-30370-E-2-A	12/20/12 12:55 PM	Unknown
34	I2122012A	480-30370-E-2-A@5	12/20/12 12:57 PM	Unknown
35	I2122012A	RB	12/20/12 01:00 PM	Unknown
36	I2122012A	RB	12/20/12 01:02 PM	Unknown
37	I2122012A	RB	12/20/12 01:04 PM	Unknown
38	I2122012A	RB	12/20/12 01:06 PM	Unknown
39	I2122012A	CCV	12/20/12 01:09 PM	QC
40	I2122012A	CCB	12/20/12 01:11 PM	QC
41	I2122012A	CRI-1107665	12/20/12 01:13 PM	QC

42	I2122012A	ICSA-1101769	12/20/12 01:16 PM QC
43	I2122012A	ICSAB-1086099	12/20/12 01:18 PM QC
44	I2122012A	CCV	12/20/12 01:20 PM QC
45	I2122012A	CCB	12/20/12 01:22 PM QC

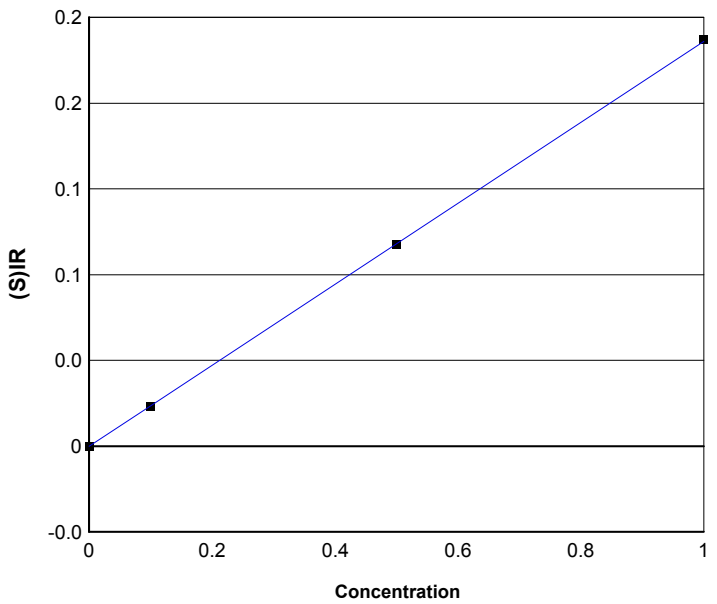
I2122012A

Author: MDM

Published: 12/20/2012 1:47:06PM

Instrument Name: ICAP 2 Serial Number: 20094602

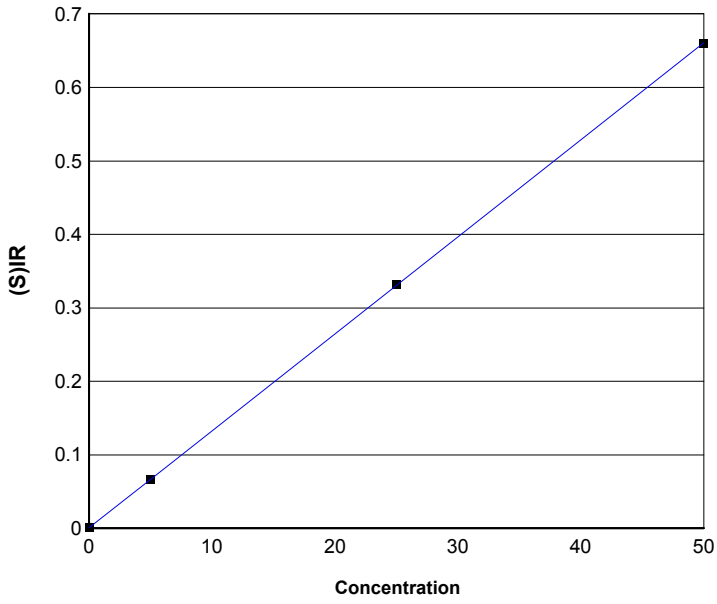
Method Name: ICAP2 2012 (117)



Element Name:	Ag
Element Wavelength:	Ag 328.068 nm
Concentration Units:	ppm
Date of Calibration:	12/20/2012 11:52:06AM
Date of Fit:	12/20/2012 11:52:06AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.000024575
A1 (Gain):	0.18879
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

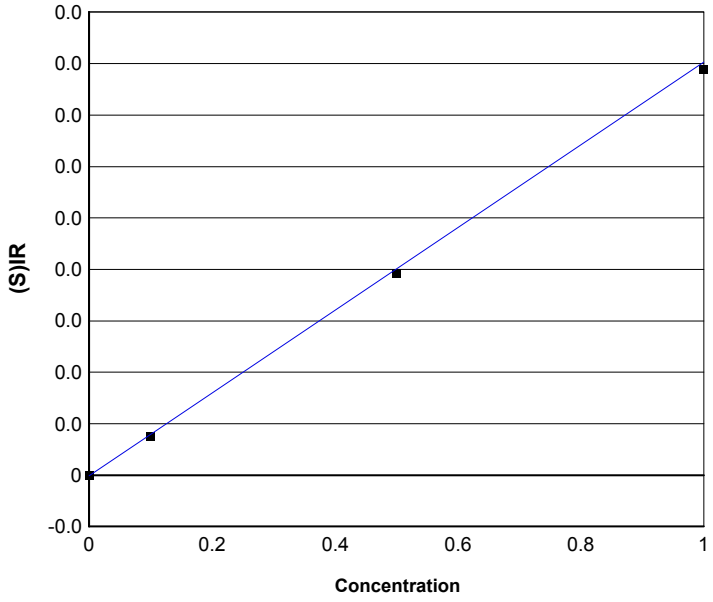
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	0.0000016099	0.00000	-0.000024271	0.000088753	1
IC4	1.0000	1.0000	0.0034051	0.34051	0.18957	0.00099388	1
IC2	0.10000	0.100000	-0.0015867	-1.5867	0.018571	0.00024790	1
IC3	0.50000	0.50000	-0.0018184	-0.36368	0.094109	0.000090458	1



Element Name:	Al
Element Wavelength:	Al 308.215 nm
Concentration Units:	ppm
Date of Calibration:	12/20/2012 11:52:06AM
Date of Fit:	12/20/2012 11:52:06AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00070572
A1 (Gain):	0.013205
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

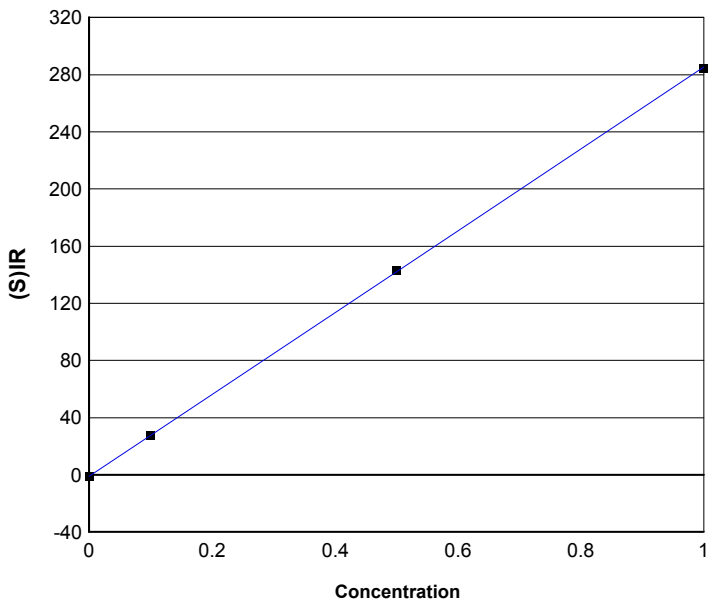
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.000000000	-0.000014556	0.00000	0.00070553	0.000032812	1
IC4	50.000	49.940	-0.058360	-0.11672	0.66006	0.0011428	1
IC2	5.0000	5.0100	0.010900	0.21801	0.066862	0.00036705	1
IC3	25.000	25.050	0.047460	0.18984	0.33139	0.00017522	1



Element Name:	As
Element Wavelength:	As 189.042 nm
Concentration Units:	ppm
Date of Calibration:	12/20/2012 11:52:06AM
Date of Fit:	12/20/2012 11:52:06AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.000076079
A1 (Gain):	0.040247
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

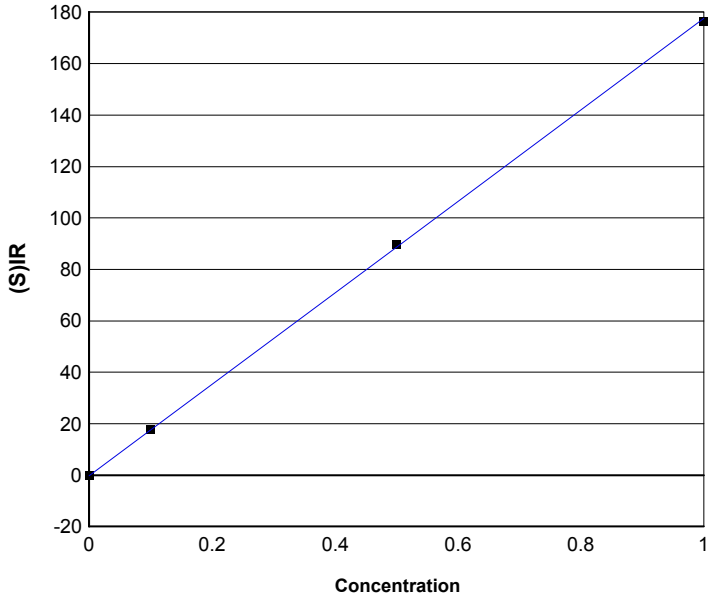
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	0.0000017146	0.00000	-0.000076010	0.000053846	1
IC4	1.0000	1.0000	0.0023590	0.23590	0.039425	0.00022940	1
IC2	0.10000	0.100000	-0.0018483	-1.8483	0.0037902	0.000066341	1
IC3	0.50000	0.50000	-0.00051065	-0.10213	0.019607	0.000070110	1



Element Name:	As
Element Wavelength:	As 193.759 nm
Concentration Units:	ppm
Date of Calibration:	12/20/2012 11:52:06AM
Date of Fit:	12/20/2012 11:52:06AM
Type of Fit:	Linear
Correlation:	1.0000
A0 (Offset):	-1.140
A1 (Gain):	286.4
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

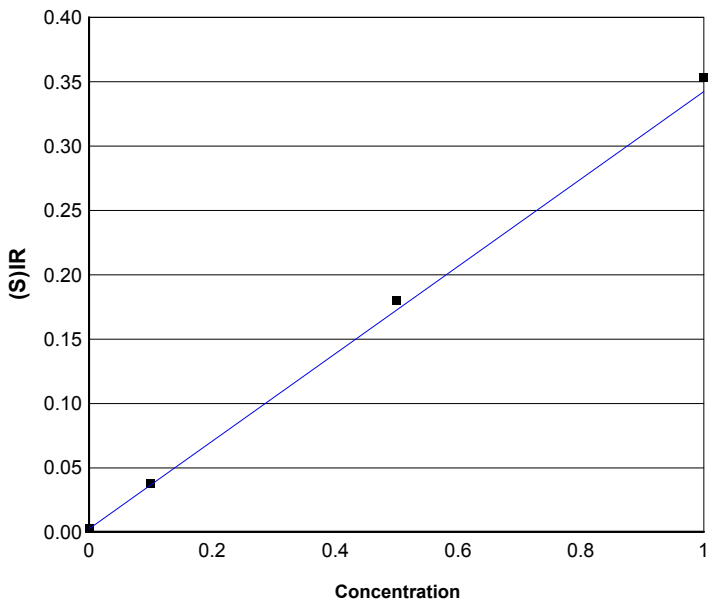
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.0000	0.0000000000	-0.0000006153	0.0000	-1.140	0.04719	1
IC4	1.000	1.0000	-0.002698	-0.2698	284.5	0.1743	1
IC2	0.1000	0.1000	0.0004318	0.4318	27.62	0.08610	1
IC3	0.5000	0.5000	0.002266	0.4533	142.7	1.169	1



Element Name:	As
Element Wavelength:	As 197.262 nm
Concentration Units:	ppm
Date of Calibration:	12/20/2012 11:52:06AM
Date of Fit:	12/20/2012 11:52:06AM
Type of Fit:	Linear
Correlation:	1.0000
A0 (Offset):	-0.2825
A1 (Gain):	177.8
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

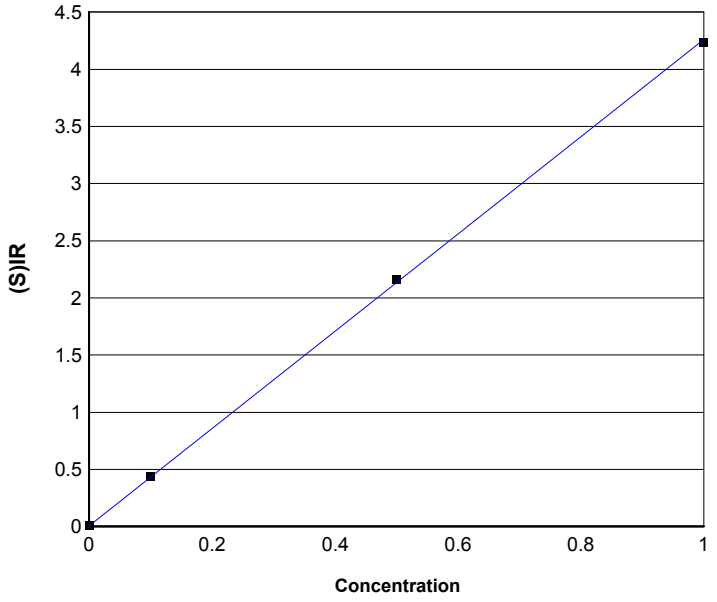
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.0000	0.000000000	-0.000001257	0.0000	-0.2827	0.2387	1
IC4	1.000	0.9900	-0.005661	-0.5661	176.5	0.3786	1
IC2	0.1000	0.1000	0.0008642	0.8642	17.65	0.07754	1
IC3	0.5000	0.5000	0.004797	0.9593	89.48	1.083	1



Element Name:	B
Element Wavelength:	B 208.959 nm
Concentration Units:	ppm
Date of Calibration:	12/20/2012 11:52:06AM
Date of Fit:	12/20/2012 11:52:06AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.0023449
A1 (Gain):	0.34027
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

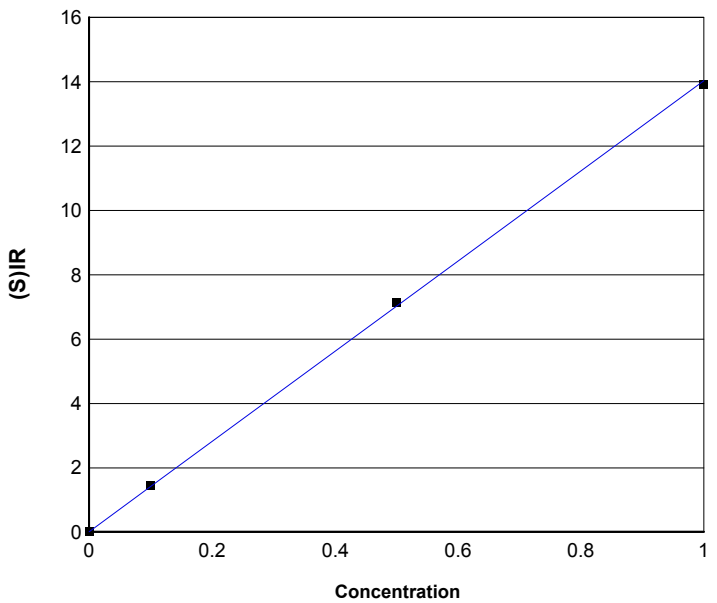
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	-0.0000002908	0.00000	0.0023448	0.00019616	1
IC4	1.0000	1.00000	-0.0045830	-0.45830	0.35323	0.00042086	1
IC2	0.10000	0.100000	-0.00020941	-0.20941	0.037518	0.00013461	1
IC3	0.50000	0.50000	0.0047924	0.95848	0.18020	0.00018467	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	12/20/2012 11:52:06AM
Date of Fit:	12/20/2012 11:52:06AM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	0.0077204
A1 (Gain):	4.2543
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

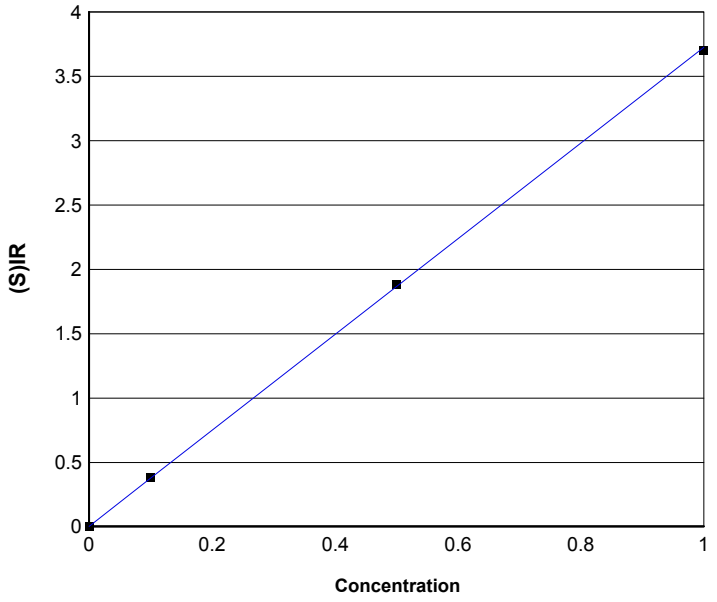
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	-0.0000019153	0.00000	0.0077122	0.00030316	1
IC4	1.0000	0.99000	-0.0070646	-0.70646	4.2319	0.017613	1
IC2	0.10000	0.10000	0.0015110	1.5110	0.43958	0.0031406	1
IC3	0.50000	0.51000	0.0055536	1.1107	2.1585	0.00051884	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	12/20/2012 11:52:06AM
Date of Fit:	12/20/2012 11:52:06AM
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	0.013579
A1 (Gain):	14.026
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

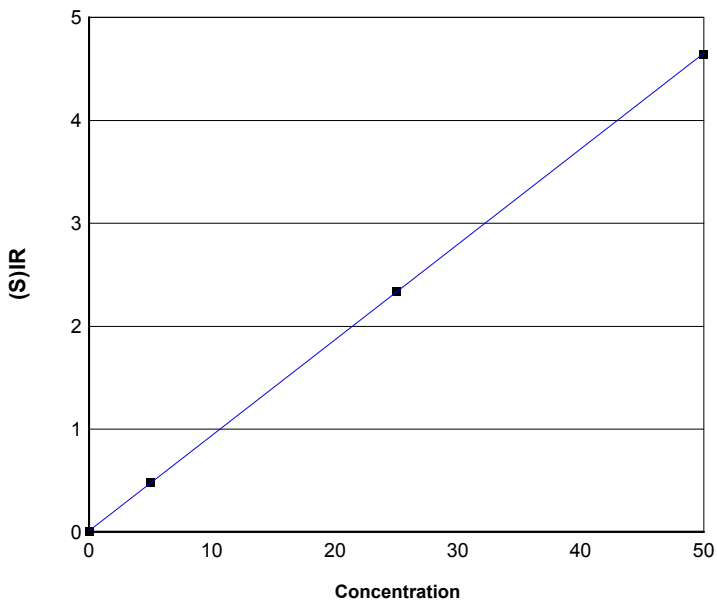
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	-0.0000029190	0.00000	0.013538	0.00015875	1
IC4	1.0000	0.99000	-0.0093977	-0.93977	13.908	0.021231	1
IC2	0.10000	0.10000	0.0024741	2.4741	1.4509	0.00022711	1
IC3	0.50000	0.51000	0.0069237	1.3847	7.1237	0.017050	1



Element Name:	Be
Element Wavelength:	Be 313.042 nm
Concentration Units:	ppm
Date of Calibration:	12/20/2012 11:52:06AM
Date of Fit:	12/20/2012 11:52:06AM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	0.0027365
A1 (Gain):	3.7243
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

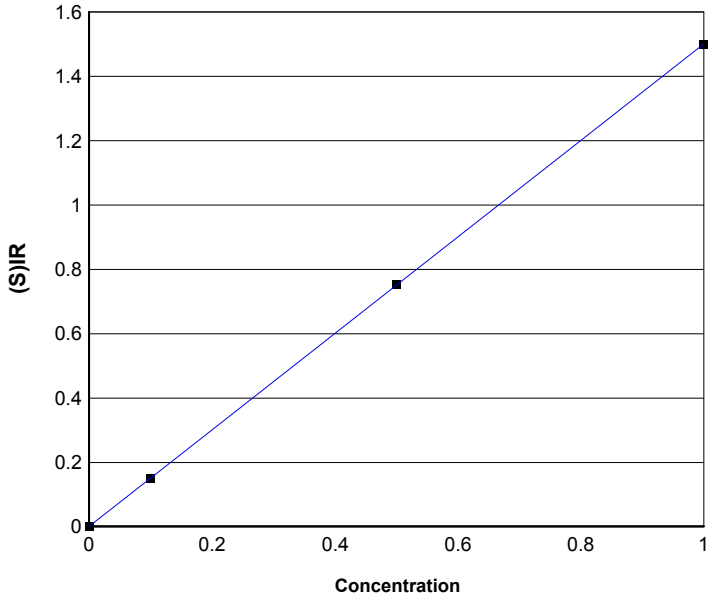
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	-0.0000028385	0.00000	0.0027259	0.000094827	1
IC4	1.0000	0.99000	-0.0073975	-0.73975	3.7000	0.010226	1
IC2	0.10000	0.10000	0.0026235	2.6235	0.38499	0.00023899	1
IC3	0.50000	0.50000	0.0047740	0.95480	1.8829	0.0021098	1



Element Name:	Ca
Element Wavelength:	Ca 317.933 nm
Concentration Units:	ppm
Date of Calibration:	12/20/2012 11:52:06AM
Date of Fit:	12/20/2012 11:52:06AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0099240
A1 (Gain):	0.092902
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

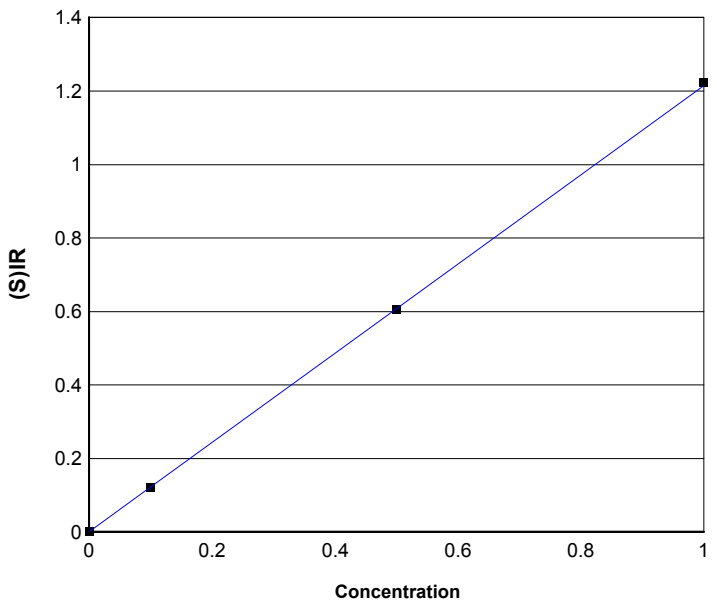
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.000000000	-0.000061569	0.00000	0.0099183	0.00010601	1
IC4	50.000	49.840	-0.15897	-0.31793	4.6403	0.014135	1
IC2	5.0000	5.0600	0.057090	1.1418	0.47974	0.00051228	1
IC3	25.000	25.100	0.10188	0.40750	2.3419	0.0022681	1



Element Name:	Cd
Element Wavelength:	Cd 228.802 nm
Concentration Units:	ppm
Date of Calibration:	12/20/2012 11:52:06AM
Date of Fit:	12/20/2012 11:52:06AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00090840
A1 (Gain):	1.4997
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

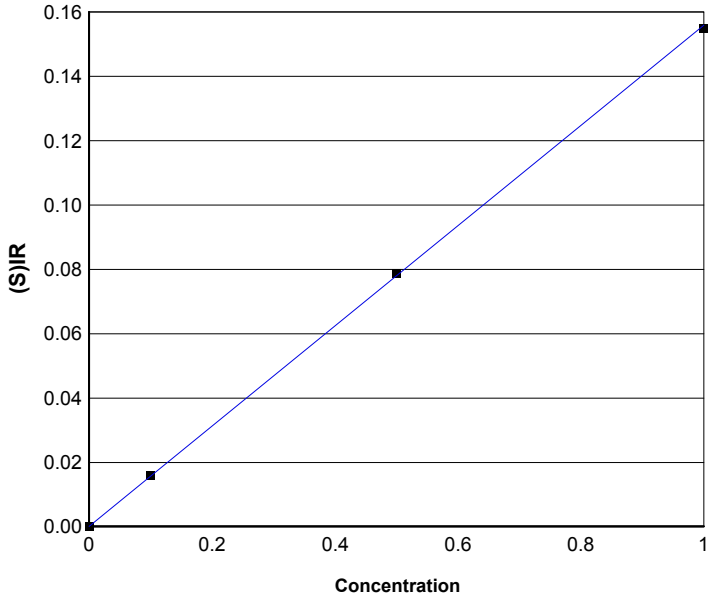
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	0.0000001680	0.00000	0.00090865	0.000070941	1
IC4	1.0000	1.00000	-0.00072563	-0.072563	1.5006	0.0021396	1
IC2	0.10000	0.100000	-0.00030075	-0.30075	0.15054	0.000091538	1
IC3	0.50000	0.50000	0.0010264	0.20528	0.75286	0.0015378	1



Element Name:	Co
Element Wavelength:	Co 228.616 nm
Concentration Units:	ppm
Date of Calibration:	12/20/2012 11:52:06AM
Date of Fit:	12/20/2012 11:52:06AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00053695
A1 (Gain):	1.2148
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

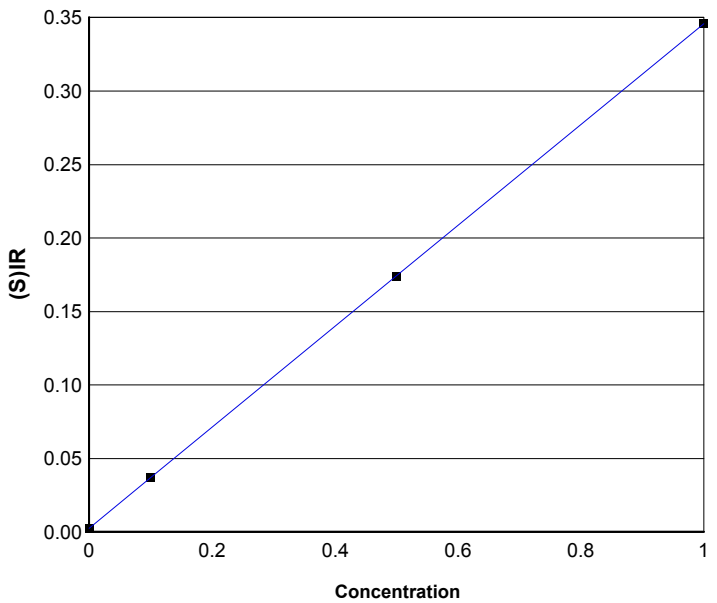
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	0.0000018494	0.00000	0.00053920	0.000013905	1
IC4	1.0000	1.0000	0.0046247	0.46247	1.2221	0.0026207	1
IC2	0.10000	0.100000	-0.0017336	-1.7336	0.12002	0.00032866	1
IC3	0.50000	0.50000	-0.0028910	-0.57821	0.60498	0.00056445	1



Element Name:	Cr
Element Wavelength:	Cr 267.716 nm
Concentration Units:	ppm
Date of Calibration:	12/20/2012 11:52:06AM
Date of Fit:	12/20/2012 11:52:06AM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	0.00012094
A1 (Gain):	0.15576
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

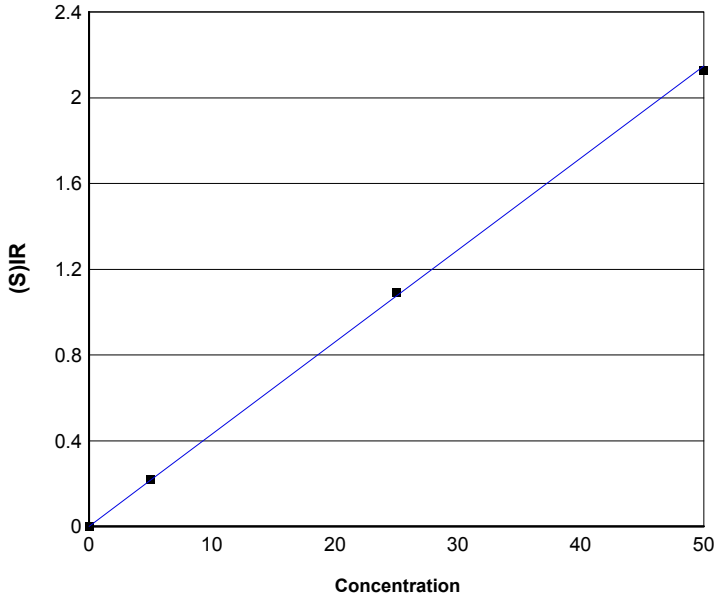
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	-0.0000024205	0.00000	0.00012056	0.000075181	1
IC4	1.0000	0.99000	-0.0070729	-0.70729	0.15478	0.00030327	1
IC2	0.10000	0.10000	0.0021415	2.1415	0.016030	0.00022942	1
IC3	0.50000	0.50000	0.0049314	0.98628	0.078768	0.00020298	1



Element Name:	Cu
Element Wavelength:	Cu 324.754 nm
Concentration Units:	ppm
Date of Calibration:	12/20/2012 11:52:06AM
Date of Fit:	12/20/2012 11:52:06AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0025773
A1 (Gain):	0.34315
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

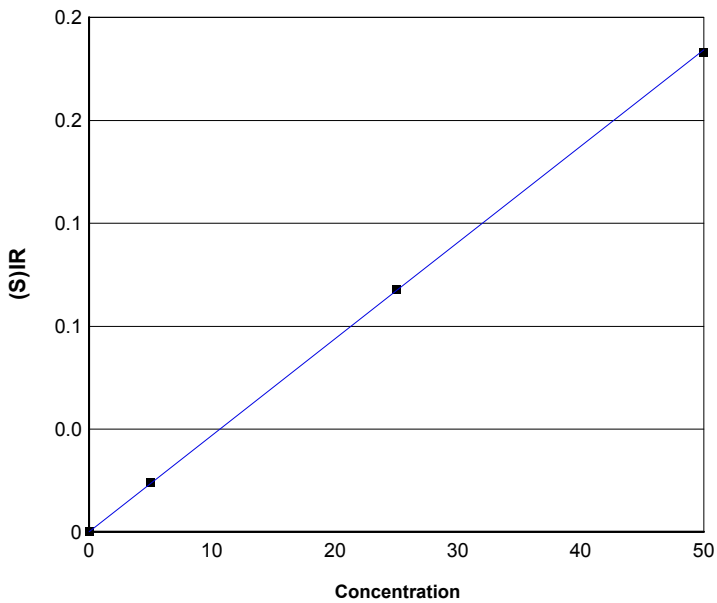
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	-0.0000003938	0.00000	0.0025772	0.00011330	1
IC4	1.0000	1.0000	0.00042424	0.042424	0.34604	0.00070751	1
IC2	0.10000	0.10000	0.00054528	0.54528	0.037096	0.000025415	1
IC3	0.50000	0.50000	-0.00096951	-0.19390	0.17390	0.00048823	1



Element Name:	Fe
Element Wavelength:	Fe 259.940 nm
Concentration Units:	ppm
Date of Calibration:	12/20/2012 11:52:06AM
Date of Fit:	12/20/2012 11:52:06AM
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	0.0016015
A1 (Gain):	0.042951
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

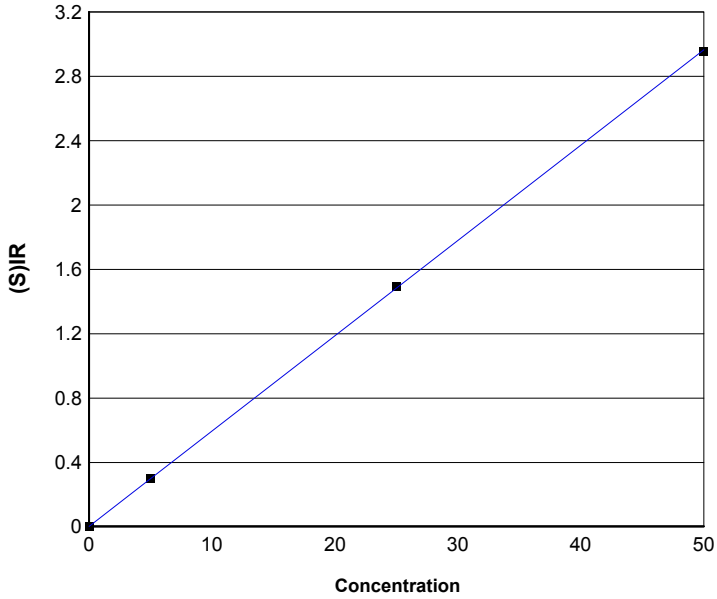
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.00000000	-0.00014583	0.00000	0.0015952	0.00019971	1
IC4	50.000	49.520	-0.47508	-0.95015	2.1287	0.0046096	1
IC2	5.0000	5.1200	0.12290	2.4579	0.22163	0.0011282	1
IC3	25.000	25.350	0.35218	1.4087	1.0905	0.00012755	1



Element Name:	Fe
Element Wavelength:	Fe 271.441 nm
Concentration Units:	ppm
Date of Calibration:	12/20/2012 11:52:06AM
Date of Fit:	12/20/2012 11:52:06AM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	0.000079813
A1 (Gain):	0.0037493
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

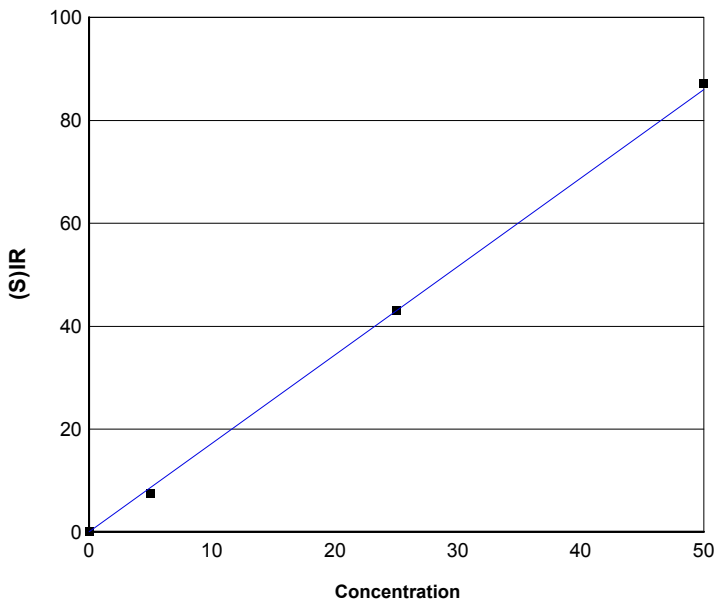
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.00000000	-0.00012874	0.00000	0.000079331	0.000039539	1
IC4	50.000	49.720	-0.27540	-0.55080	0.18651	0.00024903	1
IC2	5.0000	5.1300	0.12650	2.5300	0.019301	0.00012731	1
IC3	25.000	25.150	0.14890	0.59561	0.094370	0.00075714	1



Element Name:	K
Element Wavelength:	K 766.490 nm
Concentration Units:	ppm
Date of Calibration:	12/20/2012 11:52:06AM
Date of Fit:	12/20/2012 11:52:06AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0012479
A1 (Gain):	0.059316
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

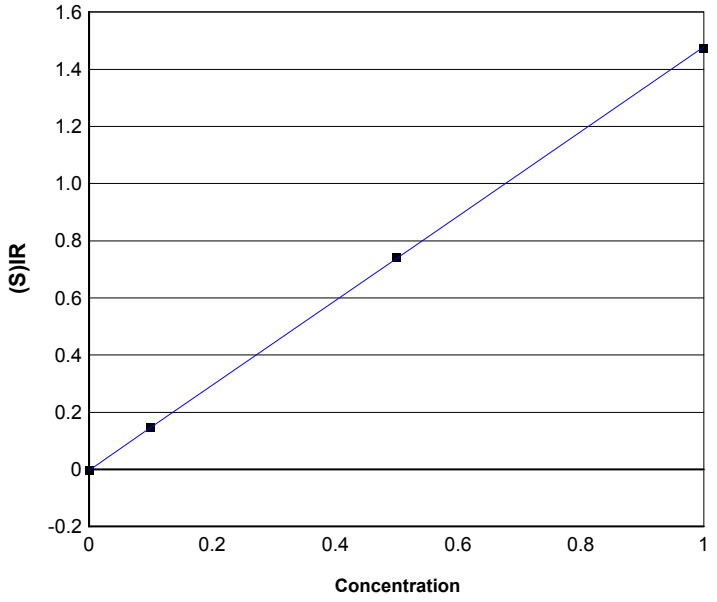
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.000000000	-0.000035517	0.00000	0.0012458	0.0015184	1
IC4	50.000	49.810	-0.19105	-0.38210	2.9557	0.015538	1
IC2	5.0000	5.0200	0.020515	0.41030	0.29905	0.0018405	1
IC3	25.000	25.170	0.17053	0.68213	1.4943	0.0056556	1



Element Name:	K
Element Wavelength:	K 766.490 nm
Concentration Units:	ppm
Date of Calibration:	12/20/2012 11:52:06AM
Date of Fit:	12/20/2012 11:52:06AM
Type of Fit:	Linear
Correlation:	0.99939
A0 (Offset):	0.043114
A1 (Gain):	1.7195
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

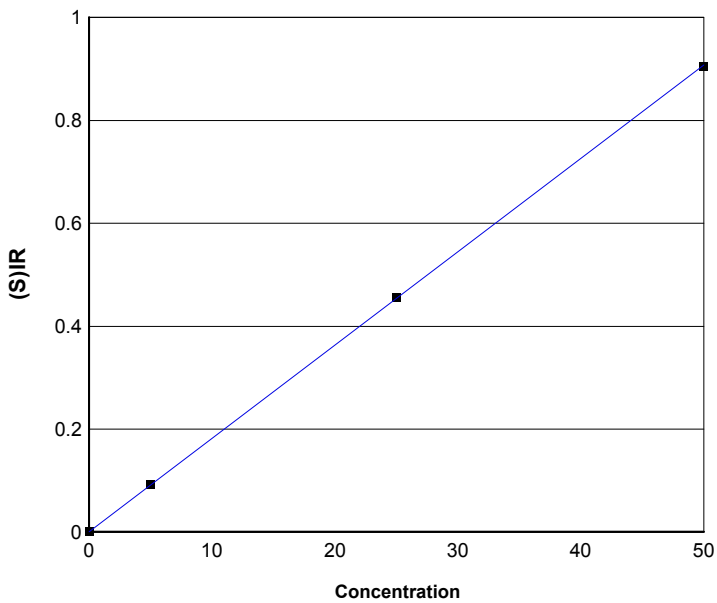
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.00000000	0.00060149	0.00000	0.044148	0.0011178	1
IC4	50.000	50.700	0.70083	1.4017	87.226	1.6594	1
IC2	5.0000	4.3400	-0.66426	-13.285	7.4986	0.049339	1
IC3	25.000	24.960	-0.036575	-0.14630	42.969	1.0199	1



Element Name:	Li
Element Wavelength:	Li 670.784 nm
Concentration Units:	ppm
Date of Calibration:	12/20/2012 11:52:06AM
Date of Fit:	12/20/2012 11:52:06AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.0027589
A1 (Gain):	1.4817
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

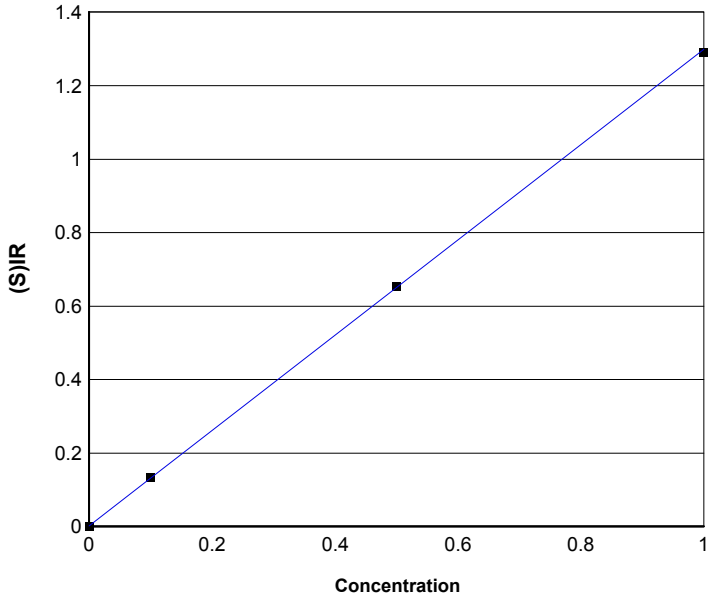
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	-0.0000005995	0.00000	-0.0027598	0.0011682	1
IC2	0.10000	0.10000	0.00031203	0.31203	0.14588	0.00012544	1
IC3	0.50000	0.50000	0.0031865	0.63730	0.74282	0.0011458	1
IC4	1.0000	1.00000	-0.0034985	-0.34985	1.4738	0.0046048	1



Element Name:	Mg
Element Wavelength:	Mg 279.079 nm
Concentration Units:	ppm
Date of Calibration:	12/20/2012 11:52:06AM
Date of Fit:	12/20/2012 11:52:06AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00062218
A1 (Gain):	0.018133
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

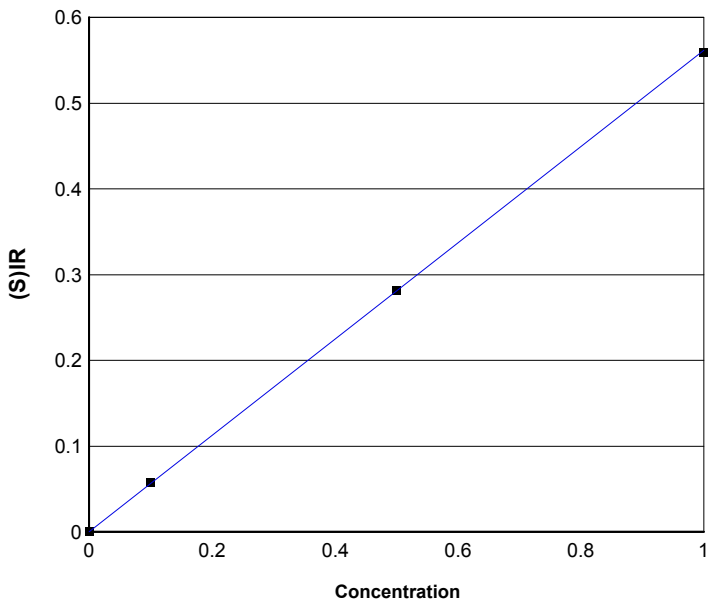
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.000000000	-0.000049618	0.00000	0.00062128	0.000075069	1
IC4	50.000	49.840	-0.15984	-0.31969	0.90439	0.0017560	1
IC2	5.0000	5.0400	0.042042	0.84085	0.092051	0.00014403	1
IC3	25.000	25.120	0.11780	0.47121	0.45609	0.00059057	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	12/20/2012 11:52:06AM
Date of Fit:	12/20/2012 11:52:06AM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.0013922
A1 (Gain):	1.2974
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

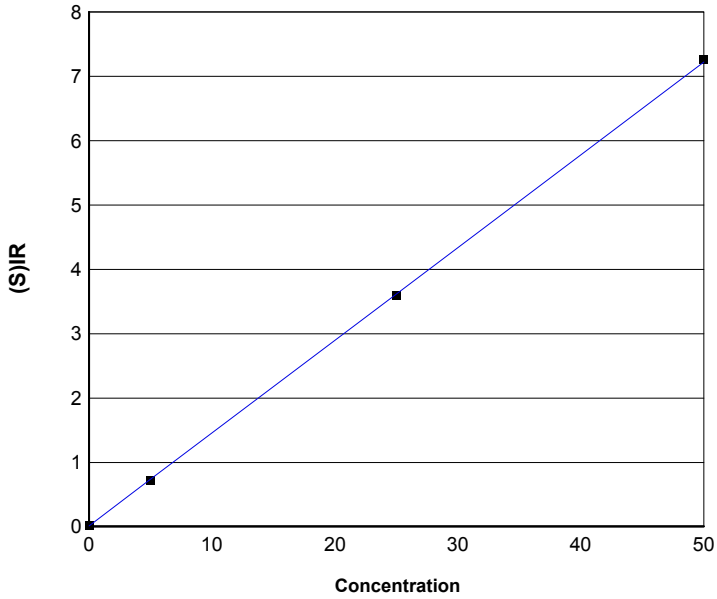
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	-0.0000024948	0.00000	0.0013890	0.0000022034	1
IC4	1.0000	0.99000	-0.0056861	-0.56861	1.2914	0.00062113	1
IC2	0.10000	0.10000	0.0024078	2.4078	0.13426	0.00017498	1
IC3	0.50000	0.50000	0.0032783	0.65566	0.65435	0.000022059	1



Element Name:	Mo
Element Wavelength:	Mo 202.030 nm
Concentration Units:	ppm
Date of Calibration:	12/20/2012 11:52:06AM
Date of Fit:	12/20/2012 11:52:06AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00031747
A1 (Gain):	0.56142
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

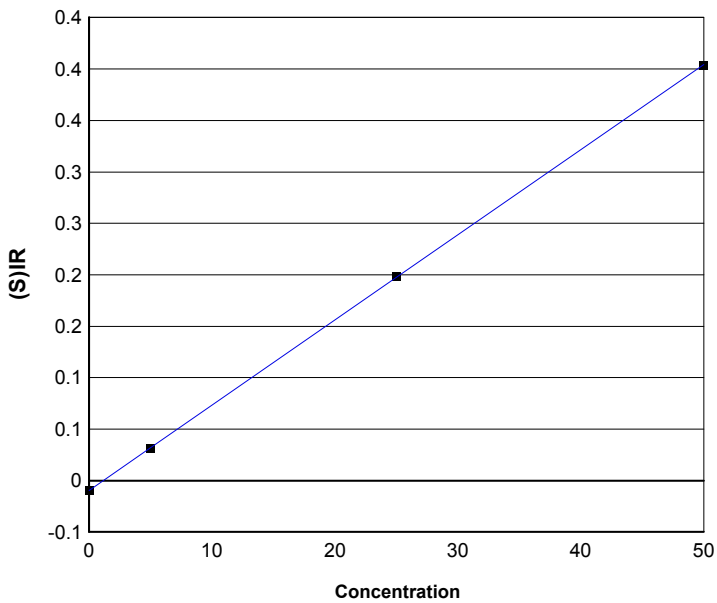
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	-0.0000018537	0.00000	0.00031643	0.00014599	1
IC4	1.0000	1.00000	-0.0037822	-0.37822	0.55962	0.0011020	1
IC2	0.10000	0.10000	0.0018443	1.8443	0.057495	0.00026776	1
IC3	0.50000	0.50000	0.0019379	0.38757	0.28212	0.00019231	1



Element Name:	Na
Element Wavelength:	Na 589.592 nm
Concentration Units:	ppm
Date of Calibration:	12/20/2012 11:52:06AM
Date of Fit:	12/20/2012 11:52:06AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.012222
A1 (Gain):	0.14425
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

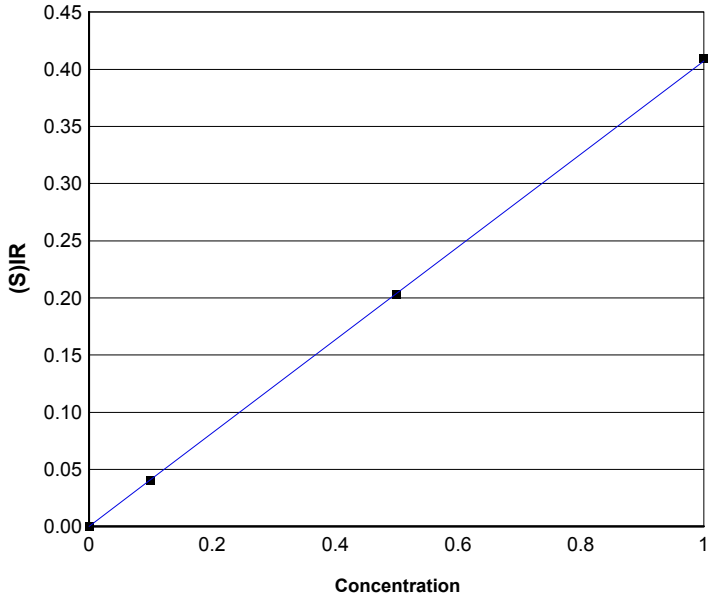
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.000000000	0.000096179	0.00000	0.012236	0.00034599	1
IC4	50.000	50.250	0.25171	0.50342	7.2612	0.022908	1
IC2	5.0000	4.9100	-0.088760	-1.7752	0.72068	0.00062773	1
IC3	25.000	24.840	-0.16295	-0.65180	3.5950	0.0031538	1



Element Name:	Na
Element Wavelength:	Na 818.326 nm
Concentration Units:	ppm
Date of Calibration:	12/20/2012 11:52:06AM
Date of Fit:	12/20/2012 11:52:06AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.0096910
A1 (Gain):	0.0082816
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

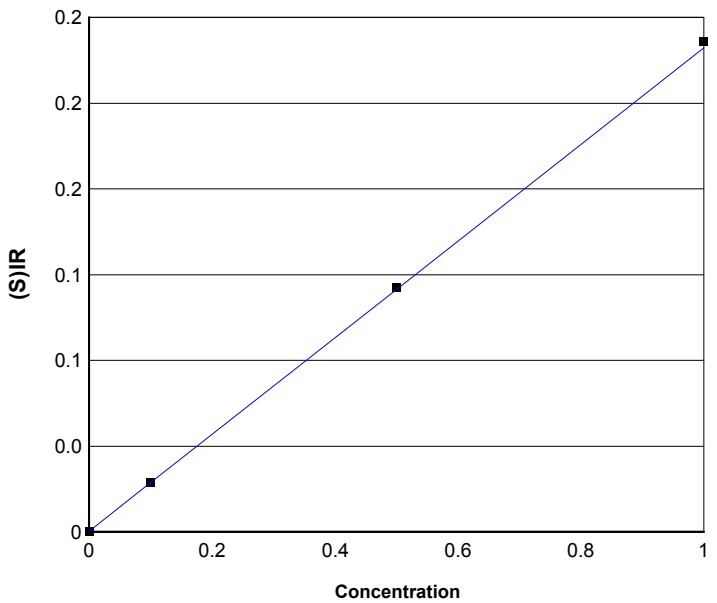
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	0.0000007101	0.00000	-0.0096910	0.00030449	1
IC4	50.000	49.900	-0.10252	-0.20503	0.40354	0.0011139	1
IC2	5.0000	4.9900	-0.013702	-0.27405	0.031604	0.00054244	1
IC3	25.000	25.120	0.11622	0.46488	0.19831	0.0024051	1



Element Name:	Ni
Element Wavelength:	Ni 231.604 nm
Concentration Units:	ppm
Date of Calibration:	12/20/2012 11:52:06AM
Date of Fit:	12/20/2012 11:52:06AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00017910
A1 (Gain):	0.40717
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

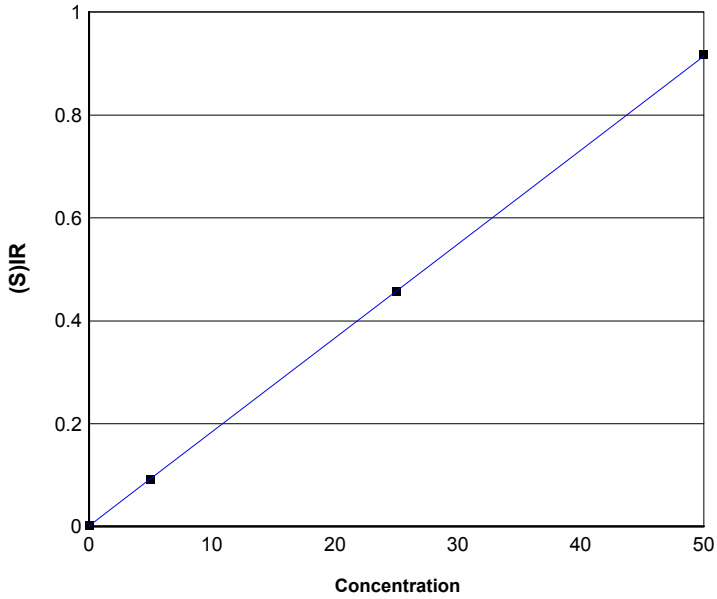
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	0.0000016385	0.00000	0.00017976	0.00018768	1
IC4	1.0000	1.0000	0.0037375	0.37375	0.40954	0.00044384	1
IC2	0.10000	0.100000	-0.0015809	-1.5809	0.040319	0.00014244	1
IC3	0.50000	0.50000	-0.0021566	-0.43132	0.20322	0.00021263	1



Element Name:	Pb
Element Wavelength:	Pb 220.353 nm
Concentration Units:	ppm
Date of Calibration:	12/20/2012 11:52:06AM
Date of Fit:	12/20/2012 11:52:06AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00039858
A1 (Gain):	0.22549
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

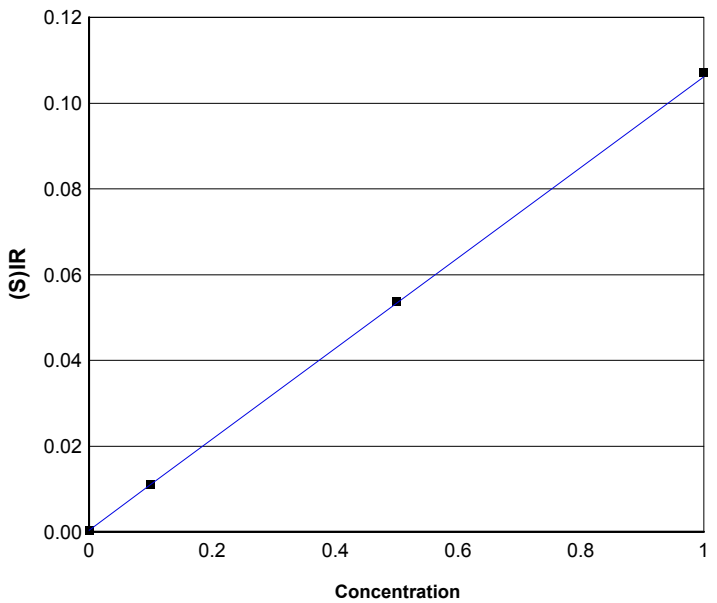
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	0.0000003768	0.00000	0.00039867	0.000069332	1
IC4	1.0000	1.0000	0.0024425	0.24425	0.22899	0.00028480	1
IC2	0.10000	0.100000	-0.00016563	-0.16563	0.023165	0.00024883	1
IC3	0.50000	0.50000	-0.0022769	-0.45538	0.11390	0.0010229	1



Element Name:	S
Element Wavelength:	S 182.034 nm
Concentration Units:	ppm
Date of Calibration:	12/20/2012 11:52:06AM
Date of Fit:	12/20/2012 11:52:06AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.0016774
A1 (Gain):	0.018255
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

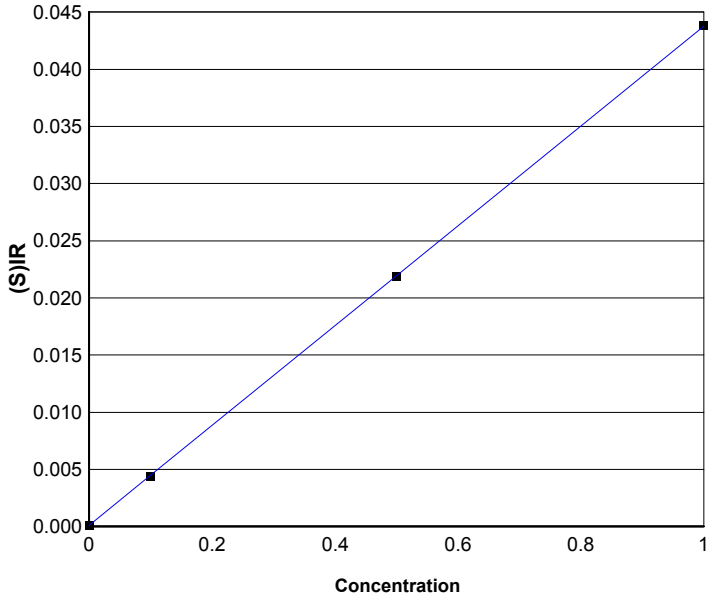
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.000000000	0.000098772	0.00000	0.0016792	0.000060497	1
IC2	5.0000	4.8900	-0.10761	-2.1522	0.090987	0.00010360	1
IC3	25.000	24.980	-0.019220	-0.076880	0.45769	0.00062875	1
IC4	50.000	50.130	0.12683	0.25366	0.91673	0.00044149	1



Element Name:	Sb
Element Wavelength:	Sb 206.833 nm
Concentration Units:	ppm
Date of Calibration:	12/20/2012 11:52:06AM
Date of Fit:	12/20/2012 11:52:06AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00041437
A1 (Gain):	0.10581
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

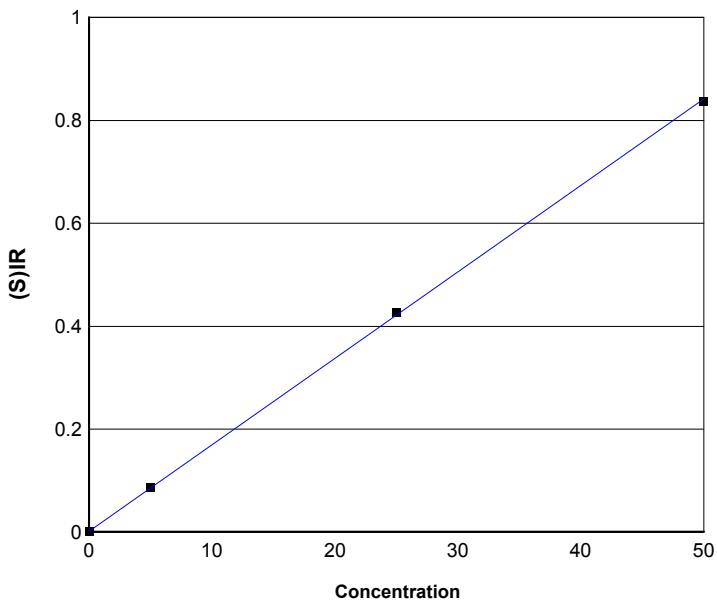
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	0.0000005711	0.00000	0.00041443	0.000047625	1
IC4	1.0000	1.00000	-0.00032244	-0.032244	0.10708	0.00026731	1
IC2	0.10000	0.100000	-0.00075418	-0.75418	0.011005	0.000057343	1
IC3	0.50000	0.50000	0.0010766	0.21533	0.053878	0.000045345	1



Element Name:	Se
Element Wavelength:	Se 196.090 nm
Concentration Units:	ppm
Date of Calibration:	12/20/2012 11:52:06AM
Date of Fit:	12/20/2012 11:52:06AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00010454
A1 (Gain):	0.043652
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

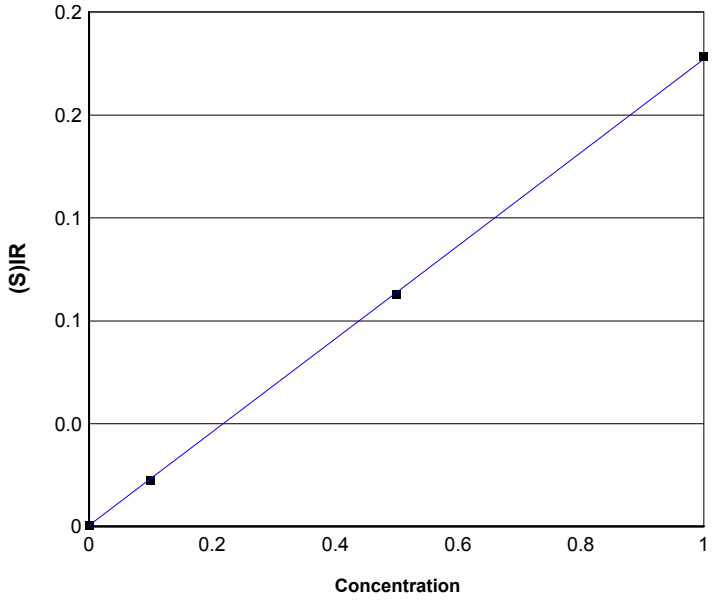
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	0.0000008419	0.00000	0.00010458	0.00012370	1
IC4	1.0000	1.0000	0.0013420	0.13420	0.043806	0.00050341	1
IC2	0.10000	0.100000	-0.00088467	-0.88467	0.0044302	0.000011942	1
IC3	0.50000	0.50000	-0.00045736	-0.091471	0.021906	0.00028871	1



Element Name:	Si
Element Wavelength:	Si 288.158 nm
Concentration Units:	ppm
Date of Calibration:	12/20/2012 11:52:06AM
Date of Fit:	12/20/2012 11:52:06AM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	0.0015962
A1 (Gain):	0.016811
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

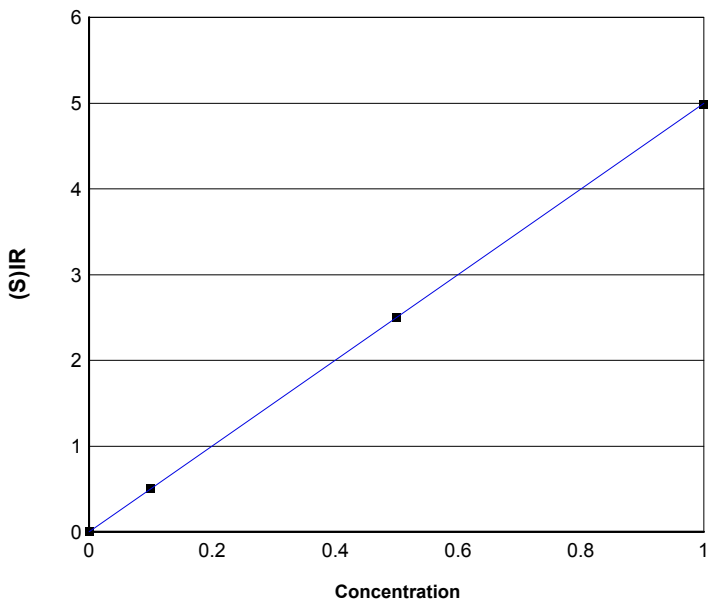
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.00000000	-0.00011580	0.00000	0.0015943	0.00052063	1
IC2	5.0000	5.1000	0.099363	1.9873	0.087323	0.00024106	1
IC3	25.000	25.260	0.26368	1.0547	0.42631	0.0041757	1
IC4	50.000	49.640	-0.36304	-0.72609	0.83605	0.0054107	1



Element Name:	Sn
Element Wavelength:	Sn 189.989 nm
Concentration Units:	ppm
Date of Calibration:	12/20/2012 11:52:06AM
Date of Fit:	12/20/2012 11:52:06AM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	0.00039560
A1 (Gain):	0.18134
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

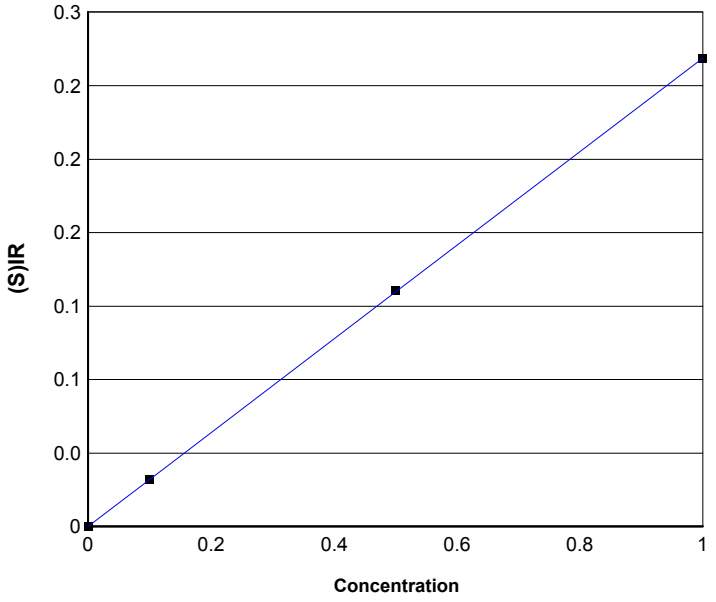
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	0.0000035961	0.00000	0.00039625	0.000054356	1
IC4	1.0000	1.0100	0.0068484	0.68484	0.18264	0.000083672	1
IC2	0.10000	0.100000	-0.0036391	-3.6391	0.017836	0.00017281	1
IC3	0.50000	0.50000	-0.0032093	-0.64185	0.090314	0.00021423	1



Element Name:	Sr
Element Wavelength:	Sr 407.771 nm
Concentration Units:	ppm
Date of Calibration:	12/20/2012 11:52:06AM
Date of Fit:	12/20/2012 11:52:06AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0027334
A1 (Gain):	4.9994
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

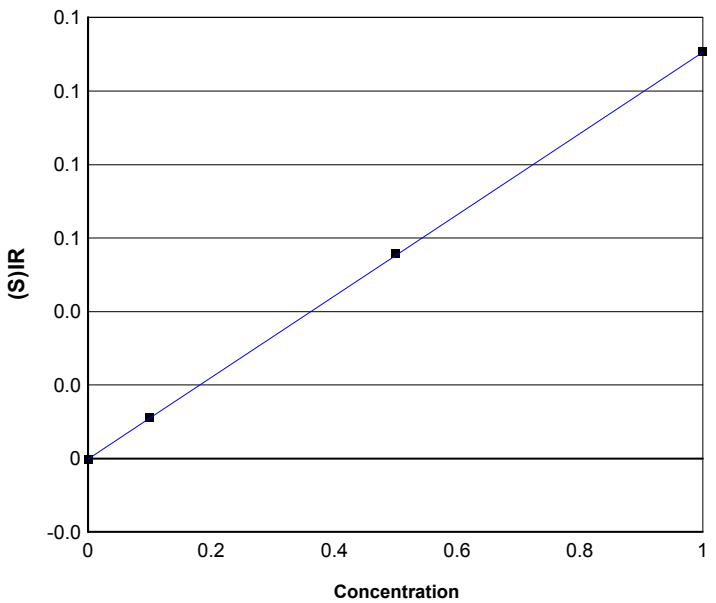
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	-0.0000011621	0.00000	0.0027276	0.00041819	1
IC2	0.10000	0.10000	0.0011592	1.1592	0.50847	0.0035637	1
IC3	0.50000	0.50000	0.0011879	0.23757	2.5084	0.0031905	1
IC4	1.0000	1.00000	-0.0023471	-0.23471	4.9904	0.023497	1



Element Name:	Ti
Element Wavelength:	Ti 334.904 nm
Concentration Units:	ppm
Date of Calibration:	12/20/2012 11:52:06AM
Date of Fit:	12/20/2012 11:52:06AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.000040138
A1 (Gain):	0.25500
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

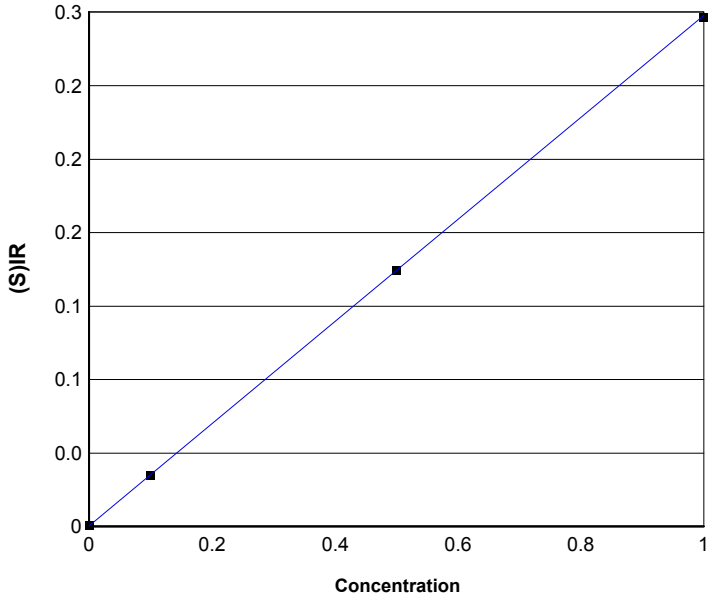
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	0.0000001098	0.00000	0.000040165	0.000030771	1
IC4	1.0000	1.00000	-0.0023737	-0.23737	0.25458	0.00058183	1
IC2	0.10000	0.100000	-0.00043392	-0.43392	0.025444	0.000068625	1
IC3	0.50000	0.50000	0.0028076	0.56152	0.12833	0.000083367	1



Element Name:	Tl
Element Wavelength:	Tl 190.856 nm
Concentration Units:	ppm
Date of Calibration:	12/20/2012 11:52:06AM
Date of Fit:	12/20/2012 11:52:06AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00018497
A1 (Gain):	0.11076
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

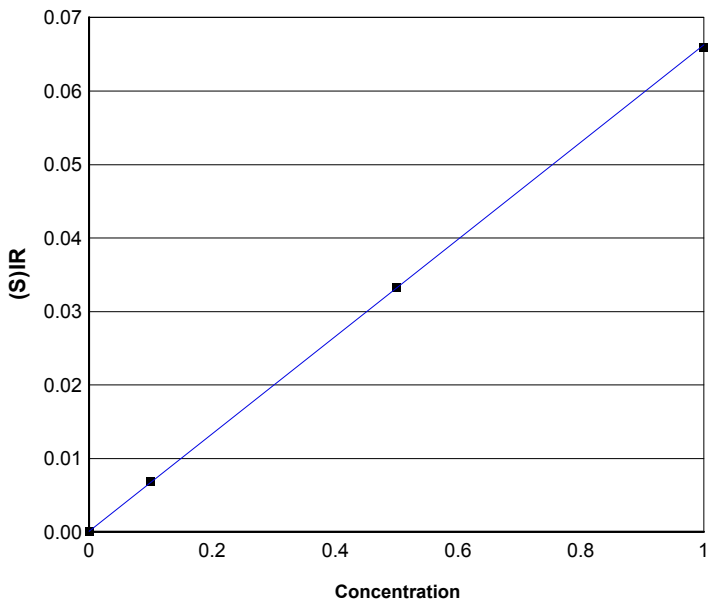
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	-0.0000013450	0.00000	-0.00018512	0.000091956	1
IC4	1.0000	1.00000	-0.0037278	-0.37278	0.11077	0.00010480	1
IC2	0.10000	0.10000	0.0012153	1.2153	0.011086	0.000093561	1
IC3	0.50000	0.50000	0.0025125	0.50250	0.055777	0.00026157	1



Element Name:	V
Element Wavelength:	V 292.402 nm
Concentration Units:	ppm
Date of Calibration:	12/20/2012 11:52:06AM
Date of Fit:	12/20/2012 11:52:06AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00049110
A1 (Gain):	0.27768
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	0.0000002505	0.00000	0.00049117	0.000015326	1
IC4	1.0000	1.00000	-0.0015578	-0.15578	0.27715	0.00018243	1
IC2	0.10000	0.100000	-0.00050783	-0.50783	0.028059	0.000092211	1
IC3	0.50000	0.50000	0.0020656	0.41312	0.13961	0.00010210	1



Element Name:	Zn
Element Wavelength:	Zn 206.200 nm
Concentration Units:	ppm
Date of Calibration:	12/20/2012 11:52:06AM
Date of Fit:	12/20/2012 11:52:06AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.000071990
A1 (Gain):	0.066203
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	-0.0000022610	0.00000	0.000071841	0.0000050799	1
IC4	1.0000	1.00000	-0.0043557	-0.43557	0.065941	0.00011379	1
IC2	0.10000	0.10000	0.0022818	2.2818	0.0068388	0.000030229	1
IC3	0.50000	0.50000	0.0020739	0.41479	0.033288	0.00026629	1

Sample Name: IC1 Acquired: 12/20/2012 11:43:16 Type: Cal
Method: ICAP2 2012 (v117) Mode: IR Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00002**	**.00071**	**-.00008**	**-1.140**	**-.2827**	**.00234**	**.00771**	**.01354**	**.00273**	**.00992**	**.00091**	**.00054**
Stddev	.00009	.00003	.00005	.047	.2387	.00020	.00030	.00016	.00009	.00011	.00007	.00001
%RSD	365.68	4.6507	70.840	4.140	84.43	8.3657	3.9309	1.1726	3.4787	1.0688	7.8073	2.5789
#1	.00004	.00068	-.00004	-1.173	-.4515	.00248	.00750	.01365	.00279	.00999	.00096	.00055
#2	-.00009	.00073	-.00011	-1.107	-.1139	.00221	.00793	.01343	.00266	.00984	.00086	.00053

Elem	Cr2677	Cu3247	Fe2599	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Na8183
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00012**	**.00258**	**.00160**	**.00008**	**.00125**	**.04415**	**-.00276**	**.00062**	**.00139**	**.00032**	**.01224**	**-.00969**
Stddev	.00008	.00011	.00020	.00004	.00152	.00112	.00117	.00008	.00000	.00015	.00035	.00030
%RSD	62.359	4.3962	12.519	49.840	121.88	2.5319	42.329	12.083	.15863	46.137	2.8276	3.1420
#1	.00017	.00266	.00145	.00005	.00017	.04494	-.00359	.00067	.00139	.00042	.01199	-.00948
#2	.00007	.00250	.00174	.00011	.00232	.04336	-.00193	.00057	.00139	.00021	.01248	-.00991

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00018**	**.00040**	**.00168**	**.00041**	**.00010**	**.00159**	**.00040**	**.00273**	**.00004**	**-.00019**	**.00049**	**.00007**
Stddev	.00019	.00007	.00006	.00005	.00012	.00052	.00005	.00042	.00003	.00009	.00002	.00001
%RSD	104.40	17.391	3.6026	11.492	118.28	32.656	13.718	15.332	76.612	49.673	3.1202	7.0710
#1	.00031	.00035	.00164	.00045	.00019	.00196	.00043	.00302	.00002	-.00012	.00050	.00007
#2	.00005	.00045	.00172	.00038	.00002	.00123	.00036	.00243	.00006	-.00025	.00048	.00008

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3529.9**	**4680.5**	**29848.**	**9734.4**
Stddev	3.4	8.3	29.	24.3
%RSD	.09747	.17780	.09652	.24946
#1	3527.4	4686.4	29868.	9717.2
#2	3532.3	4674.6	29828.	9751.6

Sample Name: IC2 Acquired: 12/20/2012 11:45:32 Type: Cal
Method: ICAP2 2012 (v117) Mode: IR Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.01857	.06686	.00379	27.62	17.65	.03752	.43958	1.4509	.38499	.47974	.15054	.12002	.01603
Stddev	.00025	.00037	.00007	.09	.08	.00013	.00314	.0002	.00024	.00051	.00009	.00033	.00023
%RSD	1.3349	.54897	1.7503	.3117	.4392	.35879	.71447	.01565	.06208	.10678	.06081	.27384	1.4312
#1	.01840	.06660	.00384	27.56	17.71	.03761	.43735	1.4511	.38482	.48010	.15048	.12025	.01619
#2	.01875	.06712	.00374	27.68	17.60	.03742	.44180	1.4507	.38516	.47938	.15060	.11979	.01587

Elem	Cu3247	Fe2599	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.03710	.22163	.01930	.29905	7.4986	.14588	.09205	.13426	.05750	.72068	.03160	.04032	.02317
Stddev	.00003	.00113	.00013	.00184	.0493	.00013	.00014	.00017	.00027	.00063	.00054	.00014	.00025
%RSD	.06851	.50904	.65964	.61545	.65797	.08599	.15647	.13033	.46571	.08710	1.7164	.35328	1.0742
#1	.03711	.22084	.01939	.29775	7.5335	.14579	.09195	.13413	.05768	.72024	.03122	.04042	.02299
#2	.03708	.22243	.01921	.30035	7.4637	.14596	.09215	.13438	.05731	.72113	.03199	.04022	.02334

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.09099	.01100	.00443	.08732	.01784	.50847	.02544	.01109	.02806	.00684
Stddev	.00010	.00006	.00001	.00024	.00017	.00356	.00007	.00009	.00009	.00003
%RSD	.11386	.52108	.26956	.27605	.96888	.70087	.26971	.84393	.32863	.44202
#1	.09091	.01096	.00444	.08749	.01796	.50595	.02540	.01115	.02799	.00686
#2	.09106	.01105	.00442	.08715	.01771	.51099	.02549	.01102	.02812	.00682

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3467.4	4695.1	29685.	9852.4
Stddev	2.1	6.3	125.	7.2
%RSD	.05936	.13341	.42042	.07352
#1	3468.9	4699.5	29773.	9847.3
#2	3466.0	4690.7	29596.	9857.5

Sample Name: IC3 Acquired: 12/20/2012 11:47:45 Type: Cal
Method: ICAP2 2012 (v117) Mode: IR Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.09411	.33139	.01961	142.7	89.48	.18020	2.1585	7.1237	1.8829	2.3419	.75286	.60498	.07877
Stddev	.00009	.00018	.00007	1.2	1.08	.00018	.0005	.0170	.0021	.0023	.00154	.00056	.00020
%RSD	.09612	.05287	.35759	.8195	1.210	.10248	.02404	.23934	.11205	.09685	.20427	.09330	.25769
#1	.09417	.33127	.01966	143.5	90.25	.18007	2.1581	7.1117	1.8814	2.3403	.75177	.60538	.07891
#2	.09405	.33152	.01956	141.9	88.72	.18033	2.1588	7.1358	1.8844	2.3435	.75395	.60458	.07862

Elem	Cu3247	Fe2599	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.17390	1.0905	.09437	1.4943	42.969	.74282	.45609	.65435	.28212	3.5950	.19831	.20322	.11390
Stddev	.00049	.0001	.00076	.0057	1.020	.00115	.00059	.00002	.00019	.0032	.00241	.00021	.00102
%RSD	.28075	.01170	.80231	.37848	2.3736	.15425	.12949	.00337	.06817	.08773	1.2128	.10463	.89807
#1	.17356	1.0904	.09383	1.4903	43.690	.74363	.45651	.65436	.28198	3.5928	.20001	.20337	.11463
#2	.17425	1.0906	.09491	1.4983	42.248	.74201	.45567	.65433	.28225	3.5973	.19661	.20307	.11318

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.45769	.05388	.02191	.42631	.09031	2.5084	.12833	.05578	.13961	.03329
Stddev	.00063	.00005	.00029	.00418	.00021	.0032	.00008	.00026	.00010	.00027
%RSD	.13737	.08416	1.3179	.97950	.23720	.12720	.06496	.46895	.07313	.79996
#1	.45725	.05391	.02170	.42336	.09047	2.5061	.12839	.05596	.13968	.03348
#2	.45814	.05385	.02211	.42926	.09016	2.5106	.12827	.05559	.13954	.03310

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3274.2	4607.5	29029.	9781.1
Stddev	9.4	18.3	8.	1.5
%RSD	.28661	.39807	.02782	.01577
#1	3280.8	4620.5	29034.	9782.2
#2	3267.5	4594.6	29023.	9780.0

Sample Name: IC4 Acquired: 12/20/2012 11:49:56 Type: Cal
Method: ICAP2 2012 (v117) Mode: IR Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.18957	.66006	.03943	284.5	176.5	.35323	4.2319	13.908	3.7000	4.6403	1.5006	1.2221	.15478
Stddev	.00099	.00114	.00023	.2	.4	.00042	.0176	.021	.0102	.0141	.0021	.0026	.00030
%RSD	.52427	.17313	.58187	.0613	.2144	.11915	.41619	.15265	.27638	.30462	.14258	.21445	.19594
#1	.19027	.65925	.03959	284.6	176.8	.35353	4.2195	13.923	3.6928	4.6303	1.5022	1.2239	.15499
#2	.18887	.66087	.03926	284.4	176.3	.35293	4.2444	13.893	3.7072	4.6502	1.4991	1.2202	.15456

Elem	Cu3247	Fe2599	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.34604	2.1287	.18651	2.9557	87.226	1.4738	.90439	1.2914	.55962	7.2612	.40354	.40954	.22899
Stddev	.00071	.0046	.00025	.0155	1.659	.0046	.00176	.0006	.00110	.0229	.00111	.00044	.00028
%RSD	.20446	.21654	.13352	.52568	1.9024	.31245	.19417	.04810	.19693	.31549	.27603	.10838	.12437
#1	.34654	2.1255	.18669	2.9447	86.052	1.4705	.90563	1.2910	.56040	7.2450	.40275	.40985	.22919
#2	.34554	2.1320	.18634	2.9667	88.399	1.4770	.90315	1.2919	.55884	7.2774	.40433	.40922	.22879

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.91673	.10708	.04381	.83605	.18264	4.9904	.25458	.11077	.27715	.06594
Stddev	.00044	.00027	.00050	.00541	.00008	.0235	.00058	.00010	.00018	.00011
%RSD	.04816	.24963	1.1492	.64717	.04581	.47085	.22855	.09461	.06582	.17257
#1	.91642	.10727	.04345	.83223	.18258	4.9738	.25499	.11069	.27727	.06586
#2	.91704	.10689	.04416	.83988	.18270	5.0070	.25417	.11084	.27702	.06602

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3120.9	4534.2	28498.	9766.0
Stddev	2.7	5.0	124.	16.4
%RSD	.08730	.11034	.43358	.16755
#1	3122.8	4537.7	28411.	9754.4
#2	3119.0	4530.6	28585.	9777.6

Sample Name: ICV-1120773 Acquired: 12/20/2012 11:52:10 Type: QC
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.36618	17.999	.36289	.3659	.3706	.36692	.37227	.36777	18.359	.36529	.35893	.36800
Stddev	.00246	.059	.00320	.0037	.0011	.00072	.00019	.00125	.059	.00028	.00014	.00190
%RSD	.67210	.32500	.88312	1.007	.3059	.19667	.05143	.34009	.31868	.07606	.04019	.51662
#1	.36792	17.958	.36515	.3685	.3714	.36641	.37213	.36688	18.317	.36510	.35883	.36934
#2	.36444	18.041	.36062	.3633	.3698	.36743	.37241	.36865	18.400	.36549	.35903	.36665
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.36630	17.899	18.242	W 17.415	.36413	17.843	.37163	.36827	18.073	.36077	.36172	18.049
Stddev	.00013	.071	.083	.421	.00066	.019	.00019	.00046	.039	.00043	.00004	.004
%RSD	.03633	.39840	.45227	2.4201	.18009	.10405	.05062	.12364	.21343	.11920	.01034	.02120
#1	.36620	17.848	18.183	17.117	.36367	17.856	.37176	.36795	18.045	.36046	.36170	18.052
#2	.36639	17.949	18.300	17.713	.36460	17.830	.37149	.36860	18.100	.36107	.36175	18.046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				18.750								
Range				-5.0000%								

Elem	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	.37635	.36825	18.362	.37840	.36708	.36948	.36497	.36471	z *****	z *****	.36827
Stddev	.00053	.00215	.008	.00022	.00110	.00038	.00035	.00097	-----	-----	.00298
%RSD	.14073	.58489	.04284	.05807	.30042	.10400	.09643	.26515	-----	-----	.80809
#1	.37673	.36978	18.357	.37825	.36630	.36975	.36522	.36402	z 4116.	z 12790.	.37038
#2	.37598	.36673	18.368	.37856	.36786	.36921	.36472	.36539	z 4104.	z 12750.	.36617
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
Value											
Range											

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3307.8	4605.9	28973.	9779.3
Stddev	5.2	9.4	61.	32.8
%RSD	.15695	.20491	.21147	.33489
#1	3304.1	4599.2	29016.	9802.5
#2	3311.5	4612.6	28929.	9756.2

Sample Name: ICB-1118274 Acquired: 12/20/2012 11:54:20 Type: QC
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00030	-.01241	-.00447	-.0014	.0010	-.00022	-.00035	-.00028	-.01724	-.00034	-.00030	-.00049	-.00048
Stddev	.00162	.00281	.00391	.0002	.0040	.00009	.00002	.00002	.00257	.00008	.00006	.00012	.00018
%RSD	543.99	22.655	87.357	11.98	422.1	39.884	4.5960	7.0017	14.896	24.376	19.604	24.551	37.196
#1	-.00085	-.01042	-.00724	-.0013	-.0019	-.00028	-.00036	-.00029	-.01542	-.00028	-.00034	-.00041	-.00061
#2	.00144	-.01439	-.00171	-.0015	.0038	-.00016	-.00034	-.00026	-.01905	-.00040	-.00026	-.00058	-.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.01866	-.01409	-.01175	-.00014	-.02049	-.00024	.00000	-.01487	-.00036	-.00079	-.03139	-.00068	.00109
Stddev	.00247	.01068	.00039	.00041	.00452	.00006	.00002	.01185	.00022	.00073	.00155	.00041	.00413
%RSD	13.211	75.840	3.3217	281.95	22.056	24.089	2191.2	79.672	62.567	93.338	4.9305	59.394	380.49
#1	-.02041	-.00653	-.01147	-.00043	-.01729	-.00020	-.00001	-.00649	-.00020	-.00027	-.03030	-.00097	.00401
#2	-.01692	-.02164	-.01202	.00014	-.02369	-.00028	.00002	-.02325	-.00052	-.00131	-.03249	-.00040	-.00184
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	-.01055	-.00072	-.00038	-.00035	.00034	-.00062	z *****	z *****	-.00029
Stddev	.00725	.00060	.00008	.00039	.00110	.00016	-----	-----	.00004
%RSD	68.685	82.780	22.248	109.96	321.64	25.018	-----	-----	14.591
#1	-.01567	-.00030	-.00044	-.00062	.00112	-.00051	z 4091.	z 12720.	-.00026
#2	-.00543	-.00114	-.00032	-.00008	-.00044	-.00073	z 4114.	z 12780.	-.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
High Limit									
Low Limit									

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3531.2	4645.5	29735.	9760.9
Stddev	2.4	2.7	97.	6.2
%RSD	.06696	.05912	.32657	.06388
#1	3532.9	4647.5	29803.	9756.5
#2	3529.5	4643.6	29666.	9765.3

Sample Name: CRI-1107665 Acquired: 12/20/2012 11:56:36 Type: QC
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00319	.19633	.00763	.0086	.0116	.02285	.00167	.00161	.54318	.00076	.00363	.00401
Stddev	.00050	.01739	.00131	.0013	.0004	.00038	.00004	.00003	.00127	.00011	.00013	.00080
%RSD	15.765	8.8553	17.187	15.30	3.107	1.6456	2.1023	1.9711	.23391	14.754	3.6207	19.875
#1	.00283	.20863	.00670	.0077	.0119	.02312	.00164	.00159	.54228	.00068	.00354	.00345
#2	.00354	.18404	.00855	.0095	.0114	.02258	.00169	.00163	.54408	.00084	.00373	.00458
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00909	W .03231	.49188	.36917	.03048	.18883	.00268	.01053	.93353	.00956	.00485	.01639
Stddev	.00000	.00253	.04162	.00467	.00031	.00082	.00001	.00008	.00017	.00038	.00124	.00640
%RSD	.01603	7.8331	8.4617	1.2643	1.0220	.43497	.41017	.75683	.01861	4.0197	25.494	39.056
#1	.00909	.03052	.46245	.37247	.03026	.18825	.00267	.01058	.93341	.00929	.00397	.02091
#2	.00909	.03410	.52131	.36587	.03070	.18941	.00269	.01047	.93366	.00983	.00572	.01186
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value		.05000										
Range		-30.000%										

Elem	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	.01851	.01365	.52621	F .00472	.00506	.00473	.02008	.00438	z *****	z *****	.01082
Stddev	.00015	.00167	.05910	.00020	.00003	.00012	.00039	.00046	-----	-----	.00008
%RSD	.78354	12.215	11.232	4.2310	.67203	2.5013	1.9650	10.392	-----	-----	.78494
#1	.01861	.01247	.48442	.00457	.00503	.00465	.01980	.00470	z 4163.	z 13030.	.01088
#2	.01841	.01483	.56800	.00486	.00508	.00481	.02036	.00406	z 4156.	z 13000.	.01076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
Value				.01000							
Range				-50.000%							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3551.3	4686.8	29955.	9813.6
Stddev	3.5	1.7	151.	11.3
%RSD	.09789	.03665	.50471	.11485
#1	3553.8	4685.6	29848.	9805.6
#2	3548.9	4688.0	30062.	9821.6

Sample Name: ICSA-1101769 Acquired: 12/20/2012 11:58:53 Type: QC
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00069	483.65	-.00392	F .4281	-.0056	-.00624	-.00014	-.00047	464.97	.00152	-.00008	-.00060	.00166
Stddev	.00014	1.32	.00865	.0062	.0016	.00022	.00001	.00009	2.63	.00037	.00003	.00157	.00035
%RSD	20.562	.27348	220.57	1.440	27.97	3.5954	8.2716	18.160	.56536	24.175	41.220	262.31	20.831
#1	-.00059	484.59	.00219	.4237	-.0067	-.00640	-.00015	-.00041	466.83	.00178	-.00010	.00051	.00191
#2	-.00079	482.72	-.01004	.4325	-.0045	-.00608	-.00013	-.00053	463.11	.00126	-.00006	-.00171	.00142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.0200									
Low Limit				-.0200									

Elem	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	181.35	-.07930	-.00788	.00606	497.80	.00071	-.00361	-.02602	.00007	-.00385	-.10642	-.00094	-.00011
Stddev	.31	.01378	.00039	.00092	1.32	.00004	.00011	.00164	.00033	.00169	.00555	.00093	.00031
%RSD	.17339	17.378	4.9456	15.096	.26486	5.5208	2.9162	6.3157	455.00	43.983	5.2116	98.422	284.57
#1	181.58	-.08905	-.00760	.00541	498.73	.00073	-.00353	-.02486	-.00016	-.00505	-.11034	-.00160	-.00032
#2	181.13	-.06956	-.00816	.00671	496.87	.00068	-.00368	-.02718	.00031	-.00265	-.10250	-.00029	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	-.02451	.00133	.00495	.00312	-.00709	.00065	z *****	z *****	-.00010
Stddev	.01567	.00094	.00004	.00043	.00030	.00001	-----	-----	.00076
%RSD	63.942	70.823	.89021	13.715	4.1958	2.3013	-----	-----	744.63
#1	-.03559	.00199	.00492	.00342	-.00730	.00066	z 3969.	z 12410.	.00044
#2	-.01343	.00066	.00498	.00282	-.00688	.00064	z 4006.	z 12480.	-.00064
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
High Limit									
Low Limit									

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2630.2	4137.7	25880.	9460.1
Stddev	3.5	2.7	34.	11.5
%RSD	.13121	.06484	.13072	.12180
#1	2627.8	4135.8	25856.	9452.0
#2	2632.7	4139.6	25903.	9468.3

Sample Name: ICSAB-1086099 Acquired: 12/20/2012 12:01:12 Type: QC
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21207	497.49	.10438	F .5350	.0914	-.00275	.49760	.49224	463.82	1.0124	.49669	.47608	.52784
Stddev	.00010	2.29	.01048	.0044	.0016	.00020	.00009	.00159	.84	.0001	.00065	.00049	.00028
%RSD	.04496	.46084	10.044	.8299	1.707	7.2100	.01785	.32255	.18059	.01274	.13073	.10247	.05323
#1	.21200	499.12	.09697	.5382	.0925	-.00261	.49766	.49336	464.42	1.0125	.49623	.47573	.52804
#2	.21214	495.87	.11180	.5319	.0903	-.00289	.49754	.49112	463.23	1.0123	.49715	.47642	.52764
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.1000									
Range				20.00%									

Elem	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	90.600	-.03191	.00303	.52110	510.21	.46532	-.00222	.03763	.98706	.04995	-.09493	.60837	.05637
Stddev	.281	.00339	.00016	.00142	.09	.00015	.00016	.00895	.00099	.00280	.00314	.00083	.00613
%RSD	.31011	10.620	5.4194	.27228	.01793	.03208	7.3805	23.779	.10004	5.6090	3.3033	.13708	10.871
#1	90.799	-.03431	.00291	.52211	510.14	.46542	-.00234	.04396	.98636	.05193	-.09271	.60896	.06070
#2	90.401	-.02951	.00314	.52010	510.27	.46521	-.00210	.03130	.98776	.04797	-.09714	.60778	.05204
Check ?	Chk Pass	None	None	None	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value													
Range													

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	.99677	.00181	.48868	.00252	.08844	.48493	z *****	z *****	.95255
Stddev	.00679	.00291	.00301	.00015	.00329	.00063	-----	-----	.00464
%RSD	.68146	160.91	.61610	5.9575	3.7221	.13015	-----	-----	.48665
#1	.99196	-.00025	.49081	.00241	.09077	.48538	z 3990.	z 12460.	.94928
#2	1.0016	.00386	.48656	.00262	.08611	.48449	z 4023.	z 12620.	.95583
Check ?	None	None	None	None	Chk Pass	Chk Pass	None	None	Chk Pass
Value									
Range									

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2656.3	4178.0	26086.	9503.8
Stddev	5.7	6.5	92.	48.5
%RSD	.21294	.15605	.35141	.51018
#1	2652.3	4173.4	26021.	9469.5
#2	2660.3	4182.6	26151.	9538.1

Sample Name: CCV-1107667 Acquired: 12/20/2012 12:03:24 Type: QC
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50378	24.293	.49171	.5034	.5035	.49221	.49817	.49394	24.964	.49259	.49047	.49084	.49050
Stddev	.00079	.147	.00141	.0005	.0020	.00190	.00112	.00067	.003	.00078	.00113	.00101	.00238
%RSD	.15714	.60477	.28675	.0989	.4029	.38615	.22572	.13634	.01284	.15880	.22976	.20593	.48619
#1	.50434	24.397	.49072	.5031	.5049	.49356	.49737	.49442	24.961	.49314	.48967	.49012	.48881
#2	.50322	24.190	.49271	.5038	.5020	.49087	.49896	.49346	24.966	.49203	.49127	.49155	.49218
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.065	24.465	24.412	.48517	24.189	.50503	.49316	24.386	.49471	.49500	24.662	.51281	.49531
Stddev	.125	.098	.356	.00169	.058	.00182	.00063	.035	.00013	.00177	.099	.00145	.00074
%RSD	.52065	.40040	1.4585	.34890	.24106	.36011	.12862	.14558	.02586	.35670	.40216	.28259	.14946
#1	24.154	24.534	24.160	.48637	24.147	.50374	.49361	24.361	.49480	.49624	24.732	.51383	.49583
#2	23.976	24.396	24.663	.48397	24.230	.50631	.49271	24.411	.49462	.49375	24.592	.51178	.49478
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	24.498	.51998	.48909	.50150	.49613	.49757	z *****	z *****	.50232
Stddev	.034	.00058	.00142	.00269	.00163	.00056	-----	-----	.00283
%RSD	.13842	.11169	.29033	.53596	.32943	.11193	-----	-----	.56420
#1	24.474	.51957	.48809	.49960	.49728	.49718	z 4132.	z 12940.	.50032
#2	24.522	.52039	.49010	.50340	.49497	.49796	z 4129.	z 12920.	.50432
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
Value									
Range									

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3277.9	4626.6	28934.	9885.4
Stddev	12.1	.7	183.	45.8
%RSD	.36932	.01531	.63355	.46297
#1	3286.5	4627.1	29064.	9853.0
#2	3269.3	4626.1	28805.	9917.7

Sample Name: CCB-1118274 Acquired: 12/20/2012 12:05:35 Type: QC
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.04174**	**-.00051**	**-.0015**	**-.0002**	**-.00130**	**-.00051**	**-.00050**	**.01937**	**-.00042**	**-.00031**	**-.00079**	**-.00050**
Stddev	.00016	.01844	.00063	.0034	.0011	.00024	.00001	.00011	.00354	.00011	.00005	.00037	.00006
%RSD	92.819	44.175	121.96	223.8	628.0	18.607	1.6248	22.400	18.299	27.168	16.493	47.379	11.205
#1	-.00029	.05478	-.00007	-.0039	.0006	-.00147	-.00050	-.00042	.02187	-.00050	-.00028	-.00052	-.00046
#2	-.00006	.02870	-.00096	.0009	-.0009	-.00113	-.00051	-.00058	.01686	-.00034	-.00035	-.00105	-.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01321**	**-.01972**	**-.01700**	**-.00029**	**.00485**	**-.00039**	**-.00042**	**-.00420**	**-.00107**	**-.00113**	**-.04500**	**-.00188**	**-.00048**
Stddev	.00056	.00883	.00040	.00076	.00231	.00010	.00007	.00794	.00108	.00008	.00153	.00128	.00354
%RSD	4.2338	44.808	2.3330	260.90	47.590	24.404	17.116	189.01	100.45	7.0463	3.3973	68.103	740.06
#1	-.01360	-.02596	-.01672	-.00083	.00322	-.00032	-.00048	-.00982	-.00184	-.00107	-.04391	-.00098	.00202
#2	-.01281	-.01347	-.01728	.00025	.00648	-.00046	-.00037	.00141	-.00031	-.00119	-.04608	-.00279	-.00298
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	**-.00144**	**-.00119**	**-.00047**	**-.00062**	**-.00136**	**-.00095**	z *****	z *****	**-.00065**
Stddev	.00635	.00026	.00005	.00015	.00161	.00041	-----	-----	.00018
%RSD	441.80	21.379	10.152	24.854	118.32	43.512	-----	-----	28.023
#1	.00305	-.00101	-.00051	-.00073	-.00022	-.00124	z 4063.	z 12560.	-.00052
#2	-.00593	-.00137	-.00044	-.00051	-.00250	-.00066	z 4094.	z 12610.	-.00078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
High Limit									
Low Limit									

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3498.8**	**4691.8**	**29014.**	**9992.7**
Stddev	10.1	7.4	107.	8.6
%RSD	.28981	.15701	.36905	.08618
#1	3506.0	4697.0	28939.	9998.8
#2	3491.6	4686.6	29090.	9986.6

Sample Name: LB 480-96369/1-B Acquired: 12/20/2012 12:07:51 Type: Unk
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179
Line	328.068 {103}	308.215 {109}	189.042 {478}	193.759 {474}	197.262 {471}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(none)	(none)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00115**	**.03270**	**.00165**	**.0010**	**-.0022**	F **.05323**	F **.04026**	**-.00051**	**.49145**
Stddev	.00073	.00177	.00092	.0009	.0014	.00012	.00008	.00003	.00516
%RSD	63.493	5.4211	55.821	89.51	62.37	.22307	.18719	5.5615	1.0495
#1	-.00063	.03145	.00230	.0004	-.0032	.05331	.04031	-.00049	.49509
#2	-.00166	.03395	.00100	.0017	-.0012	.05315	.04021	-.00053	.48780
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit						.02000	.00200		
Low Limit						-.00800	-.00300		

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790
Line	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**-.00041**	**.00107**	**.00720**	**.00915**	**.27229**	F **.63924**	**.00096**	**.08177**
Stddev	.00021	.00036	.00027	.00070	.00050	.00300	.00391	.00017	.00119
%RSD	82.062	87.510	24.798	9.7374	5.4865	1.1027	.61116	17.186	1.4600
#1	-.00011	-.00016	.00088	.00670	.00951	.27442	.64201	.00085	.08093
#2	-.00041	-.00067	.00126	.00769	.00880	.27017	.63648	.00108	.08262
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit							.50000		
Low Limit							-.50000		

Elem	Mn2576	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00043**	F **.00633**	F **1653.5**	**-.00043**	**.00064**	**-.01605**	**-.00207**	**.00491**	**.00391**
Stddev	.00000	.00005	8.1	.00042	.00056	.00251	.00083	.00181	.01241
%RSD	1.1197	.77715	.48770	97.702	87.893	15.638	40.258	36.922	316.98
#1	.00043	.00630	1659.2	-.00013	.00104	-.01782	-.00266	.00619	.01269
#2	.00043	.00637	1647.8	-.00073	.00024	-.01427	-.00148	.00363	-.00486
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit		.00462	1.0000						
Low Limit		-.00500	-.50000						

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	360.073 { 94}2	371.030 { 91}	206.200 {163}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(none)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	**-.00024**	**.00364**	**-.00096**	**-.00109**	**-.00133**	F *****	*****	F **.01156**
Stddev	.00032	.00003	.00030	.00024	.00024	-----	-----	.00032
%RSD	135.09	.77374	30.901	22.133	18.244	-----	-----	2.7679
#1	-.00046	.00362	-.00075	-.00092	-.00116	3894.	11890.	.01178
#2	-.00001	.00366	-.00117	-.00126	-.00150	3902.	11950.	.01133
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit						12.00		.01000
Low Limit						8.000		-.00300

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2667.4**	**4212.8**	**24522.**	**9880.2**
Stddev	9.4	6.7	53.	28.0
%RSD	.35389	.15869	.21717	.28348
#1	2674.1	4217.5	24559.	9860.4
#2	2660.8	4208.1	24484.	9900.0

Sample Name: MB 480-96555/2-A Acquired: 12/20/2012 12:10:12 Type: Unk
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179
Line	328.068 {103}	308.215 {109}	189.042 {478}	193.759 {474}	197.262 {471}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(none)	(none)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.03218**	**.00037**	**-.0014**	**-.0004**	**-.00142**	**-.00054**	**-.00057**	**.00167**
Stddev	.00059	.01536	.00602	.0011	.0007	.00004	.00004	.00003	.00140
%RSD	294.96	47.726	1624.1	75.26	166.9	2.5825	6.5457	4.5558	83.673
#1	-.00022	.02132	-.00389	-.0022	.0001	-.00140	-.00056	-.00059	.00266
#2	.00062	.04304	.00463	-.0007	-.0009	-.00145	-.00051	-.00056	.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790
Line	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**-.00043**	**-.00101**	**.00073**	**-.02089**	**.00672**	**-.01917**	**.00050**	**-.01027**
Stddev	.00013	.00001	.00005	.00020	.00274	.00428	.00031	.00030	.00395
%RSD	23.616	1.4845	5.3357	27.752	13.119	63.602	1.6177	59.513	38.463
#1	-.00044	-.00043	-.00097	.00087	-.01895	.00974	-.01939	.00071	-.01306
#2	-.00062	-.00043	-.00105	.00058	-.02283	.00370	-.01895	.00029	-.00748
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**-.00061**	**.31498**	**-.00049**	**.00027**	**-.05674**	**-.00298**	**.00060**	**-.03455**
Stddev	.00002	.00003	.04968	.00000	.00111	.00573	.00046	.00554	.01027
%RSD	9.5540	4.3924	15.773	.19695	412.27	10.097	15.425	931.56	29.742
#1	.00022	-.00063	.35011	-.00050	.00106	-.05269	-.00266	.00451	-.02728
#2	.00025	-.00060	.27985	-.00049	-.00052	-.06079	-.00331	-.00332	-.04181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	360.073 { 94}2	371.030 { 91}	206.200 {163}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(none)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	**-.00094**	**-.00064**	**-.00099**	**-.00023**	**-.00031**	F *****	*****	**-.00043**
Stddev	.00043	.00004	.00067	.00153	.00008	-----	-----	.00080
%RSD	45.868	5.8329	67.122	654.93	27.431	-----	-----	187.04
#1	-.00124	-.00067	-.00052	.00085	-.00025	4080.	12420.	.00014
#2	-.00063	-.00062	-.00147	-.00132	-.00037	4073.	12410.	-.00099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit						12.00		
Low Limit						8.000		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3512.1**	**4780.2**	**28878.**	**10408.**
Stddev	18.6	23.2	79.	21.
%RSD	.52981	.48616	.27526	.19860
#1	3525.3	4796.6	28934.	10423.
#2	3498.9	4763.7	28822.	10394.

Sample Name: LCS 480-96555/3-A Acquired: 12/20/2012 12:12:31 Type: Unk
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179
Line	328.068 {103}	308.215 {109}	189.042 {478}	193.759 {474}	197.262 {471}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(none)	(none)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .05848	9.5046	.21890	.1970	.2035	F .23810	.22907	.20245	10.474
Stddev	.00083	.0291	.00012	.0019	.0027	.00071	.00032	.00095	.057
%RSD	1.4120	.30668	.05482	.9401	1.330	.30003	.14035	.46684	.54582
#1	.05790	9.5252	.21882	.1957	.2016	.23861	.22885	.20312	10.514
#2	.05906	9.4840	.21899	.1983	.2055	.23760	.22930	.20178	10.433
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	.05750					.23000			
Low Limit	.04250					.17000			

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790
Line	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20964	.22119	.20509	.21753	9.0476	9.7867	F 24.677	.18579	9.5064
Stddev	.00046	.00011	.00161	.00006	.0561	.0192	.119	.00093	.0251
%RSD	.21935	.05011	.78598	.02965	.61955	.19649	.48064	.49960	.26399
#1	.20996	.22127	.20623	.21758	9.0872	9.8003	24.760	.18645	9.5242
#2	.20931	.22111	.20395	.21749	9.0080	9.7731	24.593	.18513	9.4887
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit							11.500		
Low Limit							8.5000		

Elem	Mn2576	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21002	.21064	F 1585.2	.21669	.21743	-.01945	.20772	.22863	10.252
Stddev	.00018	.00066	9.4	.00217	.00266	.00135	.00092	.00404	.021
%RSD	.08454	.31464	.59476	1.0008	1.2223	6.9416	.44335	1.7656	.20634
#1	.21015	.21111	1591.9	.21822	.21931	-.01849	.20837	.23149	10.237
#2	.20990	.21017	1578.6	.21516	.21555	-.02040	.20706	.22578	10.267
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit			11.500						
Low Limit			8.5000						

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	360.073 { 94}2	371.030 { 91}	206.200 {163}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(none)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	.21513	.20494	.19825	.19570	.20188	*****	*****	F .24006
Stddev	.00105	.00060	.00038	.00224	.00205	-----	-----	.00037
%RSD	.48856	.29411	.19071	1.1440	1.0146	-----	-----	.15251
#1	.21588	.20536	.19798	.19729	.20333	3890.	11770.	.24032
#2	.21439	.20451	.19851	.19412	.20043	3879.	11800.	.23980
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Fail
High Limit								.23000
Low Limit								.17000

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2632.7	4271.1	24528.	10009.
Stddev	4.5	3.4	18.	34.
%RSD	.16930	.07850	.07491	.34202
#1	2629.6	4268.7	24515.	9984.3
#2	2635.9	4273.5	24541.	10033.

Sample Name: CCV Acquired: 12/20/2012 12:14:57 Type: QC
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51904	23.094	.49824	.4950	.5000	.47151	.49999	.48239	24.600	.48990	.50339	.50112
Stddev	.00658	.045	.00282	.0035	.0020	.00108	.00196	.00026	.006	.00212	.00122	.00157
%RSD	1.2682	.19611	.56640	.7037	.3916	.22813	.39222	.05450	.02423	.43209	.24147	.31335
#1	.52370	23.126	.50023	.4974	.5014	.47075	.50137	.48257	24.604	.48840	.50253	.50223
#2	.51439	23.062	.49624	.4925	.4986	.47227	.49860	.48220	24.596	.49139	.50425	.50001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51012	F 22.102	22.905	24.031	.45668	24.488	.51855	.50754	24.916	.50548	.50456	24.035
Stddev	.00133	.064	.044	.335	.00081	.058	.00144	.00191	.035	.00137	.00231	.087
%RSD	.25978	.29016	.19118	1.3940	.17815	.23554	.27813	.37690	.14232	.27059	.45796	.36328
#1	.51106	22.147	22.936	23.794	.45611	24.529	.51957	.50619	24.891	.50452	.50293	23.974
#2	.50918	22.056	22.874	24.268	.45726	24.447	.51754	.50889	24.941	.50645	.50619	24.097
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		25.000										
Range		-10.000%										

Elem	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	.49743	.51201	24.613	.52062	.50387	.49611	.49667	.48440	z *****	z *****	.53321
Stddev	.00356	.00495	.093	.00123	.00195	.00194	.00051	.00006	-----	-----	.00112
%RSD	.71582	.96702	.37740	.23666	.38705	.39092	.10268	.01303	-----	-----	.21002
#1	.49491	.50851	24.547	.52149	.50249	.49748	.49703	.48445	z 3997.	z 12120.	.53400
#2	.49995	.51551	24.679	.51975	.50525	.49474	.49631	.48436	z 3970.	z 12030.	.53242
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
Value											
Range											

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3202.7	4671.5	27624.	10253.
Stddev	9.8	19.7	83.	22.
%RSD	.30457	.42101	.30052	.21812
#1	3209.6	4685.4	27566.	10238.
#2	3195.8	4657.6	27683.	10269.

Sample Name: CCB Acquired: 12/20/2012 12:17:09 Type: QC
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00083**	**-.01460**	**.00081**	**-.0009**	**.0007**	**-.00086**	**-.00061**	**-.00056**	**-.01522**	**-.00055**	**-.00055**	**-.00033**
Stddev	.00068	.03307	.00033	.0008	.0020	.00014	.00002	.00004	.00071	.00000	.00016	.00009
%RSD	81.027	226.46	41.017	91.16	294.9	16.495	4.0283	7.3228	4.6876	.40944	30.083	27.165
#1	-.00131	-.03799	.00104	-.0015	.0021	-.00076	-.00063	-.00053	-.01471	-.00055	-.00043	-.00026
#2	-.00036	.00878	.00058	-.0003	-.0007	-.00096	-.00059	-.00058	-.01572	-.00055	-.00066	-.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00131**	**-.02721**	**-.04239**	**-.02024**	**.00069**	**-.01935**	**-.00040**	**-.00027**	**.13508**	**-.00081**	**-.00014**	F **-.05906**
Stddev	.00033	.00110	.00584	.00020	.00048	.00388	.00008	.00001	.00274	.00003	.00064	.00195
%RSD	24.933	4.0563	13.768	.99061	69.670	20.067	20.081	3.8752	2.0252	3.3495	473.18	3.3055
#1	.00155	-.02643	-.03827	-.02038	.00035	-.02210	-.00045	-.00026	.13702	-.00079	-.00059	-.05768
#2	.00108	-.02799	-.04652	-.02009	.00103	-.01660	-.00034	-.00028	.13315	-.00083	.00032	-.06044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit												.05000
Low Limit												-.05000

Elem	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	**-.00200**	**-.00175**	**-.01792**	**-.00167**	**-.00062**	**-.00091**	**-.00067**	**-.00095**	z *****	z *****	**-.00121**
Stddev	.00002	.00511	.02297	.00039	.00015	.00049	.00091	.00027	-----	-----	.00035
%RSD	.86025	292.34	128.23	23.439	24.375	53.339	135.53	28.509	-----	-----	28.880
#1	-.00198	-.00536	-.03416	-.00140	-.00051	-.00125	-.00131	-.00076	z 3946.	z 11890.	-.00096
#2	-.00201	.00187	-.00167	-.00195	-.00072	-.00057	-.00003	-.00114	z 3942.	z 11930.	-.00146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
High Limit											
Low Limit											

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3434.6**	**4730.8**	**28127.**	**10157.**
Stddev	.6	.3	50.	3.
%RSD	.01634	.00533	.17733	.03423
#1	3434.2	4730.6	28092.	10160.
#2	3435.0	4730.9	28162.	10155.

Sample Name: 480-30402-B-5-A@5 Acquired: 12/20/2012 12:19:29 Type: Unk
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179
Line	328.068 {103}	308.215 {109}	189.042 {478}	193.759 {474}	197.262 {471}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(none)	(none)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.24809**	**.00093**	**.0010**	**.0015**	**.02911**	**.07087**	**-.00064**	**32.161**
Stddev	.00010	.01887	.00221	.0007	.0015	.00002	.00015	.00001	.084
%RSD	35.675	7.6067	237.69	74.07	95.96	.05573	.21374	1.3501	.26074
#1	-.00020	.23475	-.00063	.0005	.0005	.02912	.07076	-.00064	32.102
#2	-.00033	.26144	.00249	.0015	.0026	.02909	.07098	-.00063	32.220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790
Line	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**.01078**	**.01051**	**.06802**	**1.0547**	**4.5876**	**5.2619**	**.01065**	**9.2168**
Stddev	.00006	.00017	.00023	.00028	.0049	.0151	.0113	.00016	.0331
%RSD	22.016	1.5980	2.1687	.41056	.46485	.32946	.21417	1.4956	.35938
#1	-.00029	.01090	.01067	.06783	1.0582	4.5983	5.2539	.01054	9.1934
#2	-.00021	.01066	.01035	.06822	1.0512	4.5769	5.2698	.01076	9.2402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.1174**	**.00009**	**41.433**	**.02065**	**.00518**	**13.434**	**-.00092**	**.00139**	**1.2205**
Stddev	.0163	.00046	.237	.00078	.00215	.024	.00183	.00031	.0111
%RSD	.26587	486.11	.57253	3.7867	41.471	.17833	199.33	22.496	.91192
#1	6.1059	-.00023	41.265	.02120	.00670	13.417	-.00221	.00117	1.2283
#2	6.1289	.00042	41.601	.02010	.00366	13.451	.00038	.00162	1.2126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	360.073 { 94}2	371.030 { 91}	206.200 {163}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(none)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	**-.00147**	**.24620**	**.00262**	**.00566**	**.00055**	*****	*****	**.05499**
Stddev	.00024	.00101	.00068	.00023	.00013	-----	-----	.00113
%RSD	16.250	.41084	26.061	4.1314	23.711	-----	-----	2.0623
#1	-.00130	.24549	.00214	.00582	.00046	3947.	11910.	.05419
#2	-.00164	.24692	.00310	.00549	.00065	3952.	11910.	.05579
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3236.7**	**4617.1**	**27596.**	**10192.**
Stddev	9.4	11.2	75.	35.
%RSD	.28899	.24236	.27020	.34334
#1	3243.3	4625.0	27648.	10167.
#2	3230.1	4609.1	27543.	10217.

Sample Name: 480-30342-F-8-B Acquired: 12/20/2012 12:21:43 Type: Unk
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179
Line	328.068 {103}	308.215 {109}	189.042 {478}	193.759 {474}	197.262 {471}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(none)	(none)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00080**	**-.02316**	**-.00132**	**-.0021**	**.0020**	**-.00033**	**.00039**	**-.00072**	**.00878**
Stddev	.00051	.01351	.00054	.0001	.0018	.00009	.00003	.00005	.00450
%RSD	63.931	58.339	41.251	2.442	87.48	28.204	6.9404	7.3969	51.273
#1	-.00116	-.01361	-.00170	-.0021	.0032	-.00040	.00041	-.00068	.01197
#2	-.00044	-.03271	-.00093	-.0021	.0008	-.00027	.00037	-.00076	.00560
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790
Line	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00055**	**-.00014**	**-.00005**	**.00822**	**.19536**	**-.00569**	**-.00080**	**-.00011**	**-.03172**
Stddev	.00018	.00013	.00030	.00023	.00130	.01144	.00009	.00055	.00455
%RSD	33.259	90.406	591.24	2.7692	.66481	201.15	11.231	497.46	14.351
#1	-.00068	-.00005	.00016	.00806	.19628	-.01377	-.00074	.00028	-.02850
#2	-.00042	-.00023	-.00026	.00838	.19444	.00240	-.00087	-.00050	-.03494
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00075**	**.00229**	**-.00416**	**.02136**	**.04053**	**7.0041**	**-.00033**	**.00062**	**-.02833**
Stddev	.00002	.00012	.00261	.00058	.00188	.0086	.00018	.00292	.02092
%RSD	2.4996	5.3692	62.708	2.7022	4.6411	.12307	54.651	471.87	73.823
#1	.00076	.00238	-.00601	.02177	.03920	6.9980	-.00045	-.00145	-.04312
#2	.00073	.00221	-.00232	.02095	.04186	7.0102	-.00020	.00268	-.01354
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	360.073 { 94}2	371.030 { 91}	206.200 {163}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(none)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	**.02527**	**-.00048**	**-.00031**	**-.00232**	**.13023**	*****	*****	**.00461**
Stddev	.00068	.00004	.00078	.00114	.00044	-----	-----	.00016
%RSD	2.6954	8.5647	254.51	48.984	.33656	-----	-----	3.4704
#1	.02575	-.00051	.00024	-.00313	.13054	4034.	12200.	.00449
#2	.02478	-.00045	-.00086	-.00152	.12992	4046.	12230.	.00472
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3468.3**	**4660.1**	**28598.**	**10336.**
Stddev	5.2	1.6	12.	19.
%RSD	.15118	.03466	.04084	.18102
#1	3464.6	4661.2	28606.	10349.
#2	3472.0	4658.9	28590.	10323.

Sample Name: 480-30409-A-1-B Acquired: 12/20/2012 12:23:58 Type: Unk
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179
Line	328.068 {103}	308.215 {109}	189.042 {478}	193.759 {474}	197.262 {471}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(none)	(none)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00116**	**.16280**	**.00141**	**-.0013**	**.0008**	**.00949**	**.02421**	**-.00063**	**6.6755**
Stddev	.00104	.01960	.00412	.0012	.0024	.00047	.00001	.00003	.0202
%RSD	89.647	12.036	292.61	92.06	309.9	4.9100	.03253	5.3567	.30323
#1	-.00042	.17666	-.00151	-.0004	-.0009	.00982	.02421	-.00065	6.6612
#2	-.00189	.14895	.00433	-.0021	.0025	.00916	.02420	-.00061	6.6898
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790
Line	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00131**	**.00069**	**.07655**	**.09486**	**3.9962**	**1.1712**	**.92675**	**.00107**	**.16845**
Stddev	.00002	.00005	.00082	.00011	.0075	.0101	.00144	.00024	.00075
%RSD	1.7783	7.8389	1.0688	.12121	.18835	.85863	.15529	22.853	.44610
#1	.00129	.00073	.07712	.09478	4.0015	1.1641	.92573	.00090	.16898
#2	.00133	.00065	.07597	.09494	3.9909	1.1783	.92777	.00124	.16792
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03205**	**.01316**	**.38231**	**.00409**	**.22149**	**9.8807**	**-.00095**	**-.00184**	**.14270**
Stddev	.00003	.00052	.00604	.00031	.00078	.0164	.00121	.00079	.00345
%RSD	.08233	3.9682	1.5807	7.5175	.35217	.16596	128.16	42.980	2.4143
#1	.03203	.01353	.37803	.00387	.22094	9.8923	-.00180	-.00128	.14026
#2	.03206	.01279	.38658	.00430	.22204	9.8691	-.00009	-.00239	.14513
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	360.073 { 94}2	371.030 { 91}	206.200 {163}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(none)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	**.02219**	**.01766**	**.00485**	**-.00205**	**-.00019**	*****	*****	**1.4188**
Stddev	.00030	.00008	.00014	.00027	.00022	-----	-----	.0040
%RSD	1.3671	.44432	2.8724	13.394	111.30	-----	-----	.28200
#1	.02198	.01761	.00495	-.00185	-.00004	4059.	12370.	1.4217
#2	.02241	.01772	.00475	-.00224	-.00035	4076.	12380.	1.4160
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3443.5**	**4663.1**	**28871.**	**10177.**
Stddev	14.2	16.6	92.	18.
%RSD	.41384	.35587	.31737	.17469
#1	3433.4	4651.4	28806.	10164.
#2	3453.5	4674.9	28936.	10190.

Sample Name: 480-30387-A-1-B Acquired: 12/20/2012 12:26:12 Type: Unk
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179
Line	328.068 {103}	308.215 {109}	189.042 {478}	193.759 {474}	197.262 {471}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(none)	(none)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00264**	**57.819**	**.01402**	**.0574**	**.0002**	**-.00192**	**.47629**	F **-.00209**	**27.131**
Stddev	.00044	.007	.00327	.0010	.0008	.00035	.00159	.00007	.010
%RSD	16.603	.01272	23.295	1.738	345.3	18.346	.33474	3.5808	.03572
#1	-.00295	57.813	.01632	.0581	-.0003	-.00217	.47742	-.00214	27.138
#2	-.00233	57.824	.01171	.0567	.0008	-.00167	.47517	-.00204	27.125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit								25.000	
Low Limit								-.00200	

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790
Line	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.04113**	**.02820**	**.04637**	**100.10**	**37.300**	**34.357**	**.13623**	**34.907**
Stddev	.00005	.00035	.00032	.00087	.23	.014	.641	.00051	.072
%RSD	33.029	.84167	1.1339	1.8702	.23351	.03846	1.8652	.37590	.20717
#1	-.00018	.04089	.02797	.04698	100.27	37.310	33.904	.13587	34.958
#2	-.00011	.04138	.02843	.04576	99.937	37.290	34.810	.13659	34.855
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.0259**	**.00192**	**.78521**	**.03360**	**.01665**	**2.1872**	**-.00909**	**-.00261**	**17.917**
Stddev	.0048	.00014	.00730	.00048	.00126	.0019	.00107	.00636	.113
%RSD	.23621	7.2237	.92976	1.4330	7.5620	.08529	11.823	243.36	.63092
#1	2.0293	.00183	.79037	.03326	.01754	2.1859	-.00985	-.00711	17.997
#2	2.0225	.00202	.78005	.03394	.01576	2.1885	-.00833	.00188	17.837
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	360.073 { 94}2	371.030 { 91}	206.200 {163}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(none)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	**.02834**	**.07476**	**7.6789**	**-.00119**	**.18933**	*****	*****	**.34364**
Stddev	.00203	.00048	.0175	.00208	.00012	-----	-----	.00137
%RSD	7.1638	.64469	.22817	174.67	.06328	-----	-----	.39928
#1	.02978	.07442	7.6913	-.00266	.18941	4007.	12260.	.34461
#2	.02691	.07510	7.6665	.00028	.18924	4018.	12270.	.34267
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3105.2**	**4567.4**	**28161.**	**9921.9**
Stddev	7.4	8.6	47.	26.8
%RSD	.23723	.18800	.16825	.26991
#1	3110.4	4573.5	28127.	9903.0
#2	3100.0	4561.4	28194.	9940.8

Sample Name: 480-30387-A-1-B Acquired: 12/20/2012 12:28:29 Type: Unk
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179
Line	328.068 {103}	308.215 {109}	189.042 {478}	193.759 {474}	197.262 {471}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(none)	(none)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00123**	**29.392**	**.00555**	**.0316**	**.0015**	**-.00248**	**.24241**	**-.00134**	**13.794**
Stddev	.00023	.166	.00258	.0031	.0022	.00031	.00015	.00001	.114
%RSD	18.931	.56384	46.516	9.786	148.3	12.399	.06037	.80346	.82616
#1	-.00139	29.275	.00373	.0338	-.0001	-.00226	.24251	-.00133	13.714
#2	-.00106	29.509	.00738	.0294	.0030	-.00269	.24230	-.00134	13.875
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790
Line	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**.01996**	**.01433**	**.02331**	**50.718**	**18.899**	**17.114**	**.06685**	**17.744**
Stddev	.00008	.00016	.00046	.00042	.302	.019	.031	.00122	.054
%RSD	18.256	.79180	3.1957	1.8108	.59572	.10303	.18184	1.8276	.30610
#1	-.00036	.02007	.01400	.02361	50.504	18.885	17.092	.06599	17.782
#2	-.00047	.01985	.01465	.02302	50.931	18.912	17.136	.06772	17.705
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0328**	**.00043**	**.44858**	**.01618**	**.00718**	**1.0671**	**-.00458**	**-.00032**	**10.362**
Stddev	.0029	.00026	.00445	.00001	.00223	.0050	.00120	.00405	.030
%RSD	.28085	60.212	.99156	.03860	31.109	.46827	26.133	1258.2	.29440
#1	1.0349	.00024	.44543	.01617	.00560	1.0706	-.00543	-.00318	10.340
#2	1.0308	.00061	.45172	.01618	.00876	1.0636	-.00373	.00254	10.383
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	360.073 { 94}2	371.030 { 91}	206.200 {163}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(none)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	**.01350**	**.03847**	**3.9154**	**-.00055**	**.09434**	*****	*****	**.17507**
Stddev	.00030	.00007	.0006	.00055	.00053	-----	-----	.00013
%RSD	2.1911	.18430	.01497	100.79	.56241	-----	-----	.07644
#1	.01329	.03842	3.9150	-.00094	.09471	4047.	12350.	.17517
#2	.01371	.03852	3.9158	-.00016	.09396	4031.	12340.	.17498
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3262.9**	**4645.2**	**28636.**	**9958.6**
Stddev	.8	3.1	31.	47.7
%RSD	.02319	.06675	.10710	.47920
#1	3263.4	4647.3	28614.	9992.4
#2	3262.3	4643.0	28658.	9924.9

Sample Name: 480-30406-E-1-D Acquired: 12/20/2012 12:30:48 Type: Unk
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179
Line	328.068 {103}	308.215 {109}	189.042 {478}	193.759 {474}	197.262 {471}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(none)	(none)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00097	64.597	.08239	.1339	.0755	.01498	.34940	.00089	33.373
Stddev	.00083	.112	.00125	.0037	.0049	.00023	.00018	.00016	.140
%RSD	85.752	.17282	1.5136	2.766	6.448	1.5243	.05285	17.538	.42092
#1	.00156	64.676	.08327	.1313	.0720	.01482	.34927	.00078	33.473
#2	.00038	64.518	.08150	.1365	.0789	.01514	.34953	.00100	33.274
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790
Line	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00433	.03382	.35652	.14558	86.852	6.8905	6.6594	.08438	17.145
Stddev	.00021	.00010	.00171	.00176	.210	.0080	.0348	.00105	.027
%RSD	4.7742	.30182	.48058	1.2072	.24194	.11614	.52288	1.2463	.15687
#1	.00419	.03389	.35531	.14434	87.000	6.8961	6.6840	.08364	17.126
#2	.00448	.03375	.35773	.14682	86.703	6.8848	6.6347	.08512	17.164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.9482	.00438	.62000	.07661	.18216	10.363	-.00415	.00071	14.395
Stddev	.0083	.00003	.00699	.00011	.00338	.022	.00212	.00125	.027
%RSD	.28047	.59171	1.1268	.14742	1.8539	.21543	51.066	174.57	.18420
#1	2.9423	.00436	.61506	.07669	.17977	10.379	-.00565	.00160	14.376
#2	2.9540	.00440	.62494	.07653	.18454	10.347	-.00265	-.00017	14.414
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	360.073 { 94}2	371.030 { 91}	206.200 {163}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(none)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	.02406	.14440	4.0750	-.00207	.15234	*****	*****	.39945
Stddev	.00059	.00016	.0182	.00121	.00126	-----	-----	.00334
%RSD	2.4590	.11318	.44774	58.278	.82496	-----	-----	.83687
#1	.02448	.14451	4.0621	-.00122	.15145	4105.	12640.	.39708
#2	.02364	.14428	4.0879	-.00292	.15323	4129.	12730.	.40181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3180.1	4633.0	28708.	10094.
Stddev	11.0	18.7	4.	83.
%RSD	.34716	.40370	.01262	.82239
#1	3172.2	4619.8	28706.	10036.
#2	3187.9	4646.2	28711.	10153.

Sample Name: 480-30406-E-2-B Acquired: 12/20/2012 12:33:04 Type: Unk
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179
Line	328.068 {103}	308.215 {109}	189.042 {478}	193.759 {474}	197.262 {471}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(none)	(none)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00170**	**49.926**	**.05500**	**.1006**	**.0554**	**.01621**	**.32012**	**.00047**	**31.191**
Stddev	.00005	.385	.00017	.0004	.0020	.00011	.00065	.00004	.317
%RSD	2.9291	.77125	.30200	.4410	3.569	.69242	.20240	8.0900	1.0161
#1	.00166	49.654	.05488	.1009	.0568	.01613	.31966	.00044	30.967
#2	.00173	50.199	.05511	.1002	.0540	.01629	.32057	.00050	31.415
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790
Line	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00400**	**.02704**	**.20492**	**.16695**	**72.374**	**4.3454**	**4.1072**	**.06299**	**12.978**
Stddev	.00009	.00040	.00054	.00006	.230	.0033	.0543	.00010	.062
%RSD	2.2382	1.4656	.26595	.03876	.31798	.07665	1.3209	.16304	.47576
#1	.00394	.02732	.20531	.16690	72.211	4.3430	4.0689	.06307	12.935
#2	.00407	.02676	.20454	.16699	72.537	4.3477	4.1456	.06292	13.022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.8627**	**.00340**	**.81520**	**.06069**	**.13980**	**20.733**	**-.00416**	**.00078**	**18.242**
Stddev	.0054	.00021	.01748	.00065	.00041	.034	.00388	.00431	.144
%RSD	.18943	6.1054	2.1447	1.0734	.29189	.16291	93.300	553.23	.78699
#1	2.8589	.00355	.80284	.06115	.13951	20.709	-.00690	.00383	18.140
#2	2.8665	.00326	.82756	.06023	.14009	20.757	-.00141	-.00227	18.343
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	360.073 { 94}2	371.030 { 91}	206.200 {163}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(none)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	**.02465**	**.13420**	**3.2707**	**-.00080**	**.11320**	*****	*****	**.45895**
Stddev	.00023	.00039	.0060	.00189	.00008	-----	-----	.00144
%RSD	.92996	.29063	.18441	237.18	.07083	-----	-----	.31278
#1	.02449	.13392	3.2664	.00054	.11325	4126.	12820.	.45794
#2	.02481	.13448	3.2749	-.00213	.11314	4093.	12690.	.45997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3216.2**	**4583.3**	**28820.**	**9959.2**
Stddev	8.5	6.5	82.	88.6
%RSD	.26448	.14174	.28584	.88934
#1	3210.2	4578.7	28762.	10022.
#2	3222.2	4587.9	28878.	9896.5

Sample Name: 480-30406-D-3-B Acquired: 12/20/2012 12:35:14 Type: Unk
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179
Line	328.068 {103}	308.215 {109}	189.042 {478}	193.759 {474}	197.262 {471}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(none)	(none)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00170**	**48.932**	**.04777**	**.0816**	**.0371**	**.02112**	**.33811**	**.00068**	**29.552**
Stddev	.00062	.109	.00177	.0043	.0034	.00044	.00106	.00005	.041
%RSD	36.495	.22217	3.7097	5.287	9.153	2.0726	.31363	7.0612	.14039
#1	.00214	48.855	.04902	.0786	.0395	.02081	.33736	.00064	29.522
#2	.00126	49.009	.04652	.0847	.0347	.02143	.33886	.00071	29.581
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790
Line	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00210**	**.02854**	**.13187**	**.15957**	**73.495**	**5.4772**	**5.1379**	**.07400**	**15.046**
Stddev	.00003	.00004	.00055	.00043	.399	.0217	.0267	.00005	.037
%RSD	1.5437	.14732	.41703	.27153	.54315	.39617	.51908	.06474	.24400
#1	.00212	.02857	.13148	.15927	73.212	5.4619	5.1190	.07404	15.020
#2	.00208	.02851	.13226	.15988	73.777	5.4925	5.1568	.07397	15.072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.5593**	**.00572**	**.91474**	**.06322**	**.35981**	**9.9889**	**-.00320**	**.00025**	**12.659**
Stddev	.0185	.00003	.00567	.00026	.00105	.0471	.00047	.00037	.076
%RSD	.40463	.59256	.61989	.41899	.29070	.47155	14.842	148.60	.60295
#1	4.5462	.00574	.91073	.06303	.36055	9.9556	-.00354	.00052	12.605
#2	4.5723	.00570	.91875	.06341	.35907	10.022	-.00286	-.00001	12.713
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	360.073 { 94}2	371.030 { 91}	206.200 {163}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(none)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	**.02530**	**.16379**	**3.0382**	**.00070**	**.11669**	*****	*****	**.47728**
Stddev	.00025	.00005	.0092	.00081	.00022	-----	-----	.00227
%RSD	.97431	.02961	.30456	116.12	.19050	-----	-----	.47655
#1	.02512	.16383	3.0317	.00012	.11654	4098.	12670.	.47567
#2	.02547	.16376	3.0448	.00127	.11685	4103.	12680.	.47889
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3217.4**	**4590.5**	**28735.**	**9890.8**
Stddev	1.3	4.5	49.	2.7
%RSD	.04012	.09877	.16988	.02701
#1	3218.3	4593.7	28769.	9892.7
#2	3216.5	4587.3	28700.	9888.9

Sample Name: 480-30406-D-4-B Acquired: 12/20/2012 12:37:26 Type: Unk
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179
Line	328.068 {103}	308.215 {109}	189.042 {478}	193.759 {474}	197.262 {471}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(none)	(none)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00237**	**45.556**	**.05077**	**.0921**	**.0478**	**.01697**	**.32501**	**.00053**	**27.463**
Stddev	.00014	.175	.00125	.0014	.0024	.00012	.00066	.00007	.196
%RSD	6.0649	.38340	2.4608	1.514	4.936	.72184	.20377	14.161	.71517
#1	.00227	45.433	.05166	.0931	.0495	.01705	.32454	.00048	27.324
#2	.00247	45.680	.04989	.0911	.0462	.01688	.32548	.00058	27.602
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790
Line	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00197**	**.02496**	**.18379**	**.14762**	**66.897**	**4.7731**	**4.4136**	**.06818**	**13.066**
Stddev	.00004	.00007	.00004	.00049	.364	.0109	.0062	.00032	.038
%RSD	1.9593	.29448	.02043	.32945	.54443	.22858	.14071	.47213	.29460
#1	.00199	.02490	.18381	.14797	66.640	4.7808	4.4180	.06841	13.039
#2	.00194	.02501	.18376	.14728	67.155	4.7654	4.4092	.06795	13.093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.2135**	**.00580**	**.87611**	**.05921**	**.33232**	**14.359**	**-.00364**	**-.00411**	**11.391**
Stddev	.0033	.00010	.00280	.00077	.00326	.017	.00047	.00031	.122
%RSD	.10399	1.7161	.32003	1.3062	.98249	.11836	12.946	7.5790	1.0707
#1	3.2111	.00587	.87412	.05866	.33463	14.371	-.00397	-.00433	11.305
#2	3.2158	.00573	.87809	.05976	.33001	14.347	-.00331	-.00389	11.478
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	360.073 { 94}2	371.030 { 91}	206.200 {163}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(none)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	**.03638**	**.13423**	**2.9697**	**-.00092**	**.10411**	*****	*****	**.45248**
Stddev	.00042	.00003	.0122	.00014	.00100	-----	-----	.00113
%RSD	1.1420	.02403	.41039	14.801	.96314	-----	-----	.24956
#1	.03668	.13425	2.9611	-.00082	.10341	4105.	12730.	.45168
#2	.03609	.13421	2.9783	-.00102	.10482	4116.	12730.	.45328
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3228.7**	**4571.3**	**28673.**	**9974.4**
Stddev	.7	9.1	7.	14.3
%RSD	.02257	.19854	.02268	.14375
#1	3229.2	4564.9	28669.	9984.6
#2	3228.2	4577.8	28678.	9964.3

Sample Name: 480-30406-D-4-B SD@5 Acquired: 12/20/2012 12:39:37 Type: Unk
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179
Line	328.068 {103}	308.215 {109}	189.042 {478}	193.759 {474}	197.262 {471}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(none)	(none)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00143**	**9.3932**	**.01032**	**.0163**	**.0086**	**.00135**	**.06627**	**-.00050**	**5.7298**
Stddev	.00032	.0091	.00243	.0010	.0008	.00025	.00009	.00007	.0341
%RSD	22.671	.09675	23.574	6.258	9.570	18.412	.14299	13.129	.59474
#1	-.00120	9.3997	.01205	.0170	.0092	.00153	.06621	-.00055	5.7057
#2	-.00166	9.3868	.00860	.0156	.0080	.00117	.06634	-.00046	5.7539
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790
Line	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00469**	**.03654**	**.02874**	**13.943**	**.97232**	**.78185**	**.01237**	**2.7151**
Stddev	.00010	.00002	.00038	.00013	.035	.01067	.00850	.00029	.0000
%RSD	63.361	.50746	1.0314	.43518	.25051	1.0972	1.0872	2.3670	.00075
#1	-.00024	.00467	.03680	.02882	13.919	.97986	.77584	.01257	2.7152
#2	-.00009	.00470	.03627	.02865	13.968	.96477	.78786	.01216	2.7151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.67262**	**.00047**	**.15100**	**.01103**	**.06808**	**2.8840**	**-.00249**	**-.00092**	**2.7066**
Stddev	.00218	.00003	.00210	.00003	.00265	.0009	.00122	.00142	.0235
%RSD	.32414	5.6260	1.3875	.26082	3.8859	.03136	48.891	153.59	.86834
#1	.67108	.00045	.15249	.01101	.06621	2.8846	-.00335	.00008	2.6900
#2	.67416	.00048	.14952	.01105	.06996	2.8833	-.00163	-.00192	2.7232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	360.073 { 94}2	371.030 { 91}	206.200 {163}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(none)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	**.00590**	**.02674**	**.61951**	**-.00076**	**.02073**	*****	*****	**.09420**
Stddev	.00080	.00010	.00143	.00026	.00008	-----	-----	.00179
%RSD	13.616	.38616	.23111	34.682	.38184	-----	-----	1.9018
#1	.00533	.02667	.61849	-.00057	.02078	4089.	12660.	.09293
#2	.00647	.02682	.62052	-.00094	.02067	4049.	12530.	.09546
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3434.8**	**4641.2**	**29110.**	**9809.4**
Stddev	7.8	8.4	133.	65.1
%RSD	.22754	.17999	.45614	.66375
#1	3440.3	4647.1	29204.	9855.5
#2	3429.3	4635.2	29016.	9763.4

Sample Name: CCV Acquired: 12/20/2012 12:41:54 Type: QC
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51015	24.002	.49389	.4933	.4922	.49222	.50223	.49452	24.947	.49658	.49199	.49597	.49902
Stddev	.00088	.029	.00802	.0044	.0044	.00067	.00006	.00082	.148	.00045	.00011	.00015	.00036
%RSD	.17157	.12282	1.6228	.8868	.8865	.13562	.01147	.16585	.59504	.09097	.02199	.03032	.07134
#1	.51077	24.023	.48823	.4964	.4953	.49175	.50228	.49510	25.051	.49690	.49192	.49587	.49877
#2	.50953	23.981	.49956	.4902	.4891	.49269	.50219	.49394	24.842	.49626	.49207	.49608	.49927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.672	24.253	24.758	.48525	24.269	.51071	.49742	24.750	.49593	.49635	24.608	.50942	.49571
Stddev	.119	.067	.162	.00035	.000	.00008	.00098	.008	.00008	.00029	.057	.00199	.00008
%RSD	.50315	.27802	.65428	.07202	.00185	.01608	.19665	.03100	.01650	.05791	.22970	.38984	.01600
#1	23.757	24.300	24.873	.48500	24.269	.51077	.49811	24.756	.49587	.49615	24.568	.51082	.49565
#2	23.588	24.205	24.644	.48550	24.268	.51065	.49673	24.745	.49599	.49655	24.648	.50802	.49576
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	24.690	.52053	.49728	.50465	.49692	.49679	z *****	z *****	.50946
Stddev	.029	.00058	.00056	.00095	.00040	.00068	-----	-----	.00173
%RSD	.11706	.11074	.11292	.18901	.07982	.13591	-----	-----	.34044
#1	24.670	.52094	.49768	.50532	.49664	.49727	z 4025.	z 12450.	.51069
#2	24.710	.52012	.49688	.50398	.49720	.49631	z 4029.	z 12470.	.50823
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
Value									
Range									

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3232.9	4562.3	28345.	9769.2
Stddev	14.0	19.1	23.	37.8
%RSD	.43172	.41944	.08159	.38678
#1	3242.8	4575.8	28361.	9742.5
#2	3223.0	4548.7	28329.	9795.9

Sample Name: CCB Acquired: 12/20/2012 12:44:05 Type: QC
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00124**	**-.01247**	**-.00249**	**-.0029**	**-.0001**	**-.00206**	**-.00071**	**-.00065**	**-.03453**	**-.00070**	**-.00059**	**-.00076**
Stddev	.00022	.00420	.00171	.0014	.0001	.00014	.00001	.00004	.00232	.00018	.00026	.00046
%RSD	17.365	33.636	68.538	49.15	188.9	6.9767	1.7983	5.9027	6.7327	26.256	44.590	60.255
#1	-.00139	-.01544	-.00370	-.0039	-.0002	-.00217	-.00070	-.00062	-.03288	-.00083	-.00077	-.00044
#2	-.00109	-.00951	-.00129	-.0019	.0000	-.00196	-.00072	-.00068	-.03617	-.00057	-.00040	-.00109
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00106**	**-.03758**	**-.04087**	**-.02360**	**-.00035**	**-.03136**	**-.00056**	**-.00050**	**-.02604**	**-.00071**	**-.00018**	F **-.06394**
Stddev	.00039	.00125	.01331	.00040	.00172	.00304	.00005	.00021	.00390	.00038	.00182	.00120
%RSD	36.442	3.3326	32.563	1.6846	488.49	9.6857	9.6085	41.332	14.974	53.683	1022.9	1.8840
#1	-.00078	-.03670	-.05028	-.02332	.00086	-.02922	-.00059	-.00065	-.02328	-.00098	.00111	-.06309
#2	-.00133	-.03847	-.03146	-.02388	-.00156	-.03351	-.00052	-.00035	-.02879	-.00044	-.00146	-.06479
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit												.05000
Low Limit												-.05000

Elem	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	**-.00206**	**-.00357**	**-.04196**	**-.00135**	**-.00073**	**-.00113**	**.00041**	**-.00106**	z *****	z *****	**-.00105**
Stddev	.00210	.00185	.00039	.00080	.00003	.00008	.00002	.00008	-----	-----	.00070
%RSD	101.86	51.827	.93634	59.031	4.3145	6.8611	5.3250	7.9321	-----	-----	66.248
#1	-.00058	-.00488	-.04168	-.00191	-.00070	-.00108	.00040	-.00100	z 4040.	z 12570.	-.00154
#2	-.00355	-.00226	-.04224	-.00079	-.00075	-.00119	.00043	-.00112	z 4057.	z 12620.	-.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
High Limit											
Low Limit											

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3498.2**	**4613.9**	**29228.**	**9712.6**
Stddev	.6	8.4	103.	33.0
%RSD	.01640	.18155	.35327	.34020
#1	3498.6	4608.0	29155.	9735.9
#2	3497.8	4619.8	29301.	9689.2

Sample Name: 480-30406-D-4-B PDS Acquired: 12/20/2012 12:46:24 Type: Unk
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179
Line	328.068 {103}	308.215 {109}	189.042 {478}	193.759 {474}	197.262 {471}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(none)	(none)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.10932	64.927	.48292	.5093	.4679	.45332	.74167	.43824	47.311
Stddev	.00015	.130	.00656	.0040	.0011	.00108	.00988	.00175	.077
%RSD	.14147	.19949	1.3589	.7767	.2257	.23733	1.3318	.39829	.16280
#1	.10943	65.019	.48756	.5121	.4687	.45256	.74865	.43947	47.366
#2	.10921	64.836	.47828	.5065	.4672	.45408	.73468	.43700	47.257
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790
Line	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.43604	.47572	.59741	.58486	83.899	25.848	26.189	.49510	33.297
Stddev	.00027	.00266	.00080	.00123	.269	.022	.372	.00271	.072
%RSD	.06268	.55852	.13443	.21010	.32087	.08451	1.4204	.54763	.21705
#1	.43624	.47759	.59684	.58399	83.709	25.864	26.452	.49701	33.246
#2	.43585	.47384	.59797	.58573	84.090	25.833	25.926	.49318	33.349
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.4553	.45118	22.655	.50197	.75609	13.824	.44282	.42235	35.822
Stddev	.0000	.00101	.056	.00133	.00183	.013	.00037	.00462	.073
%RSD	.00011	.22409	.24667	.26480	.24209	.09647	.08373	1.0932	.20508
#1	3.4553	.45190	22.695	.50291	.75739	13.815	.44308	.42561	35.874
#2	3.4553	.45047	22.616	.50103	.75480	13.834	.44256	.41908	35.770
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	360.073 { 94}2	371.030 { 91}	206.200 {163}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(none)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	.48034	.55763	3.3328	.43400	.54218	*****	*****	.86244
Stddev	.00246	.00217	.0091	.00056	.00132	-----	-----	.00121
%RSD	.51214	.38998	.27207	.13010	.24406	-----	-----	.14015
#1	.48208	.55916	3.3392	.43440	.54124	4066.	12620.	.86158
#2	.47860	.55609	3.3264	.43360	.54311	4075.	12630.	.86329
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3081.2	4464.2	27954.	9877.0
Stddev	3.4	3.0	26.	25.6
%RSD	.11017	.06664	.09196	.25908
#1	3078.8	4466.3	27936.	9858.9
#2	3083.6	4462.1	27972.	9895.1

Sample Name: 480-30406-D-4-C MS Acquired: 12/20/2012 12:48:40 Type: Unk
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179
Line	328.068 {103}	308.215 {109}	189.042 {478}	193.759 {474}	197.262 {471}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(none)	(none)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.10379	75.438	.45905	.4995	.4453	.42916	.73737	.41109	49.684
Stddev	.00008	.161	.00275	.0018	.0004	.00040	.00614	.00026	.121
%RSD	.07729	.21338	.60010	.3615	.0937	.09363	.83243	.06301	.24314
#1	.10374	75.325	.46100	.5008	.4456	.42887	.74171	.41090	49.599
#2	.10385	75.552	.45710	.4982	.4450	.42944	.73303	.41127	49.770
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790
Line	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.40840	.45002	.57260	.57528	90.703	25.765	25.845	.47569	34.364
Stddev	.00015	.00001	.00148	.00214	.340	.024	.170	.00023	.092
%RSD	.03562	.00247	.25774	.37122	.37478	.09341	.65749	.04876	.26690
#1	.40829	.45001	.57365	.57679	90.463	25.748	25.725	.47553	34.429
#2	.40850	.45003	.57156	.57377	90.944	25.782	25.965	.47586	34.299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.7307	.42095	21.775	.48658	.69768	11.890	.36893	.29685	25.011
Stddev	.0123	.00013	.027	.00185	.00077	.004	.00398	.00351	.073
%RSD	.32844	.03024	.12269	.37939	.10977	.03647	1.0801	1.1829	.29259
#1	3.7394	.42086	21.756	.48788	.69714	11.893	.36611	.29933	24.959
#2	3.7220	.42104	21.794	.48527	.69822	11.887	.37175	.29436	25.062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	360.073 { 94}2	371.030 { 91}	206.200 {163}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(none)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	.44373	.54264	4.3681	.40727	.53902	*****	*****	.84447
Stddev	.00172	.00118	.0126	.00078	.00019	-----	-----	.00087
%RSD	.38658	.21712	.28809	.19227	.03514	-----	-----	.10266
#1	.44252	.54181	4.3770	.40671	.53916	4056.	12640.	.84508
#2	.44494	.54347	4.3592	.40782	.53889	4056.	12590.	.84385
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3080.5	4495.1	28225.	9866.7
Stddev	3.2	7.3	96.	15.3
%RSD	.10281	.16201	.34071	.15512
#1	3078.2	4489.9	28157.	9877.5
#2	3082.7	4500.2	28293.	9855.9

Sample Name: 480-30406-D-4-D MSD Acquired: 12/20/2012 12:50:56 Type: Unk
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179
Line	328.068 {103}	308.215 {109}	189.042 {478}	193.759 {474}	197.262 {471}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(none)	(none)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.09984	70.955	.43607	.4769	.4209	.40812	.71154	.39349	49.006
Stddev	.00013	.349	.00068	.0017	.0028	.00141	.00081	.00114	.022
%RSD	.13229	.49204	.15515	.3495	.6653	.34615	.11397	.28877	.04438
#1	.09993	71.202	.43559	.4781	.4189	.40713	.71211	.39429	49.022
#2	.09975	70.708	.43655	.4758	.4229	.40912	.71096	.39268	48.991
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790
Line	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.38994	.42632	.54404	.54902	87.606	24.386	24.938	.46315	32.473
Stddev	.00027	.00001	.00062	.00056	.515	.076	.668	.00182	.004
%RSD	.06902	.00209	.11476	.10196	.58833	.31306	2.6776	.39227	.01302
#1	.38975	.42632	.54360	.54942	87.970	24.440	24.466	.46443	32.470
#2	.39013	.42633	.54448	.54863	87.241	24.332	25.410	.46186	32.476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.8756	.39933	20.456	.46136	.66173	10.620	.35316	.29287	26.504
Stddev	.0068	.00046	.024	.00100	.00018	.043	.00268	.00079	.032
%RSD	.17443	.11491	.11692	.21584	.02721	.40812	.75942	.26923	.12091
#1	3.8803	.39965	20.473	.46207	.66161	10.590	.35506	.29343	26.527
#2	3.8708	.39900	20.439	.46066	.66186	10.651	.35126	.29232	26.482
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	360.073 { 94}2	371.030 { 91}	206.200 {163}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(none)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	.42053	.53137	3.8216	.38956	.52227	*****	*****	.82029
Stddev	.00093	.00073	.0012	.00110	.00007	-----	-----	.00374
%RSD	.22049	.13693	.03189	.28293	.01310	-----	-----	.45553
#1	.42119	.53188	3.8208	.39034	.52222	4072.	12680.	.82293
#2	.41988	.53086	3.8225	.38878	.52232	4063.	12690.	.81765
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3101.0	4502.3	28214.	9799.2
Stddev	2.3	1.0	33.	29.2
%RSD	.07549	.02230	.11675	.29847
#1	3099.4	4503.0	28237.	9778.6
#2	3102.7	4501.6	28191.	9819.9

Sample Name: 480-30367-Q-6-A Acquired: 12/20/2012 12:53:10 Type: Unk
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179
Line	328.068 {103}	308.215 {109}	189.042 {478}	193.759 {474}	197.262 {471}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(none)	(none)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00061**	**57.159**	**.00917**	**.0644**	**.0086**	**.45457**	**.26438**	**.00189**	**8.0619**
Stddev	.00074	.041	.00185	.0019	.0025	.00013	.00008	.00006	.0159
%RSD	120.61	.07220	20.132	2.873	28.52	.02947	.03186	3.0743	.19780
#1	-.00009	57.189	.00787	.0657	.0104	.45467	.26433	.00193	8.0732
#2	-.00114	57.130	.01048	.0631	.0069	.45448	.26444	.00185	8.0506
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790
Line	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.04035**	**.07661**	**.04625**	**84.664**	**16.465**	**22.381**	**.36185**	**26.023**
Stddev	.00019	.00000	.00047	.00009	.199	.031	.233	.00195	.014
%RSD	77.310	.00846	.61422	.19252	.23525	.18682	1.0400	.54027	.05358
#1	-.00038	.04034	.07695	.04632	84.805	16.443	22.545	.36323	26.013
#2	-.00011	.04035	.07628	.04619	84.524	16.487	22.216	.36047	26.032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mn2576	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0288**	**.00116**	**198.35**	**.09389**	**.02452**	**19.398**	**-.00283**	**.00265**	**61.298**
Stddev	.0003	.00035	.37	.00044	.00274	.036	.00156	.00380	.294
%RSD	.02500	29.699	.18896	.46719	11.191	.18682	55.168	143.34	.47887
#1	1.0289	.00141	198.62	.09358	.02646	19.372	-.00394	.00533	61.505
#2	1.0286	.00092	198.09	.09420	.02258	19.423	-.00173	-.00004	61.090
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	360.073 { 94}2	371.030 { 91}	206.200 {163}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(none)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	**.00142**	**.21247**	**.52762**	**-.00196**	**.10409**	*****	*****	**.18946**
Stddev	.00072	.00038	.01194	.00020	.00083	-----	-----	.00082
%RSD	51.013	.17992	2.2626	10.284	.79800	-----	-----	.43263
#1	.00193	.21274	.51918	-.00211	.10468	4155.	12940.	.19004
#2	.00091	.21219	.53606	-.00182	.10351	4145.	12890.	.18888
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3075.2**	**4587.6**	**28598.**	**9990.7**
Stddev	8.2	14.3	51.	16.2
%RSD	.26512	.31204	.17683	.16211
#1	3081.0	4597.7	28634.	10002.
#2	3069.4	4577.5	28562.	9979.2

Sample Name: 480-30370-E-2-A Acquired: 12/20/2012 12:55:32 Type: Unk
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179
Line	328.068 {103}	308.215 {109}	189.042 {478}	193.759 {474}	197.262 {471}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(none)	(none)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00261**	**1.2685**	**.00448**	**.0007**	**-.0015**	**.04948**	**.01186**	**-.00070**	**189.05**
Stddev	.00039	.0584	.00041	.0002	.0038	.00049	.00002	.00001	.94
%RSD	14.994	4.6051	9.1704	24.21	251.9	.98748	.16483	1.0720	.49614
#1	.00233	1.2272	.00477	.0006	-.0042	.04983	.01188	-.00071	188.38
#2	.00288	1.3098	.00419	.0008	.0012	.04914	.01185	-.00070	189.71
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790
Line	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.00063**	**.00153**	**.00644**	**.90388**	**1.6398**	**1.9968**	**.00314**	**36.177**
Stddev	.00003	.00010	.00002	.00010	.00412	.0109	.0096	.00045	.021
%RSD	18.076	15.739	1.4848	1.5630	.45590	.66276	.48224	14.169	.05816
#1	-.00016	.00070	.00154	.00651	.90096	1.6475	2.0036	.00346	36.192
#2	-.00021	.00056	.00151	.00637	.90679	1.6321	1.9900	.00283	36.162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **19.200**	**-.00109**	**16.839**	**.00233**	**.00419**	**38.055**	**-.00315**	**.00947**	**14.200**
Stddev	.095	.00015	.033	.00021	.00050	.016	.00169	.00314	.094
%RSD	.49293	13.491	.19564	8.9939	11.840	.04224	53.788	33.200	.65918
#1	19.267	-.00120	16.815	.00248	.00384	38.043	-.00195	.00725	14.133
#2	19.133	-.00099	16.862	.00218	.00454	38.066	-.00434	.01170	14.266
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit	15.000								
Low Limit	-.00300								

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	360.073 { 94}2	371.030 { 91}	206.200 {163}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(none)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	**-.00145**	**.76612**	**.04836**	**.01480**	**.00326**	*****	*****	**.01033**
Stddev	.00052	.00314	.00267	.00101	.00027	-----	-----	.00073
%RSD	36.017	.41022	5.5252	6.8135	8.2047	-----	-----	7.0603
#1	-.00108	.76390	.05025	.01552	.00307	4047.	12580.	.01085
#2	-.00182	.76835	.04647	.01409	.00345	4056.	12640.	.00982
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3111.4**	**4389.4**	**27687.**	**9792.9**
Stddev	6.6	2.9	76.	8.5
%RSD	.21187	.06650	.27438	.08694
#1	3106.7	4387.3	27740.	9798.9
#2	3116.0	4391.4	27633.	9786.9

Sample Name: 480-30370-E-2-A@5 Acquired: 12/20/2012 12:57:50 Type: Unk
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179
Line	328.068 {103}	308.215 {109}	189.042 {478}	193.759 {474}	197.262 {471}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(none)	(none)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**.24187**	**-.00172**	**-.0016**	**-.0001**	**.00754**	**.00184**	**-.00072**	**38.246**
Stddev	.00008	.01208	.00374	.0014	.0009	.00037	.00000	.00010	.013
%RSD	21.447	4.9944	217.78	89.67	742.9	4.9547	.04406	13.660	.03498
#1	.00042	.23332	-.00436	-.0026	.0005	.00780	.00184	-.00065	38.236
#2	.00031	.25041	.00093	-.0006	-.0007	.00727	.00184	-.00078	38.255
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790
Line	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00067**	**-.00025**	**-.00022**	**.00059**	**.15361**	**.29849**	**.27647**	**.00056**	**7.1595**
Stddev	.00007	.00019	.00078	.00020	.00502	.02534	.00315	.00038	.0125
%RSD	10.667	75.330	354.24	34.416	3.2692	8.4884	1.1407	68.497	.17442
#1	-.00072	-.00039	-.00077	.00045	.15716	.28058	.27870	.00029	7.1507
#2	-.00062	-.00012	.00033	.00073	.15006	.31641	.27424	.00083	7.1683
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.1446**	**-.00109**	**3.2404**	**-.00077**	**-.00068**	**7.2390**	**-.00225**	**.00304**	**2.7973**
Stddev	.0016	.00000	.0141	.00054	.00311	.0169	.00169	.00086	.0236
%RSD	.03826	.04229	.43357	70.063	458.12	.23277	75.106	28.235	.84278
#1	4.1435	-.00109	3.2305	-.00039	.00152	7.2509	-.00106	.00243	2.7806
#2	4.1457	-.00109	3.2503	-.00114	-.00288	7.2271	-.00345	.00365	2.8140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	360.073 { 94}2	371.030 { 91}	206.200 {163}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(none)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	**-.00053**	**.15384**	**.00763**	**.00307**	**-.00018**	*****	*****	**.00164**
Stddev	.00096	.00119	.00043	.00006	.00038	-----	-----	.00021
%RSD	179.40	.77340	5.6268	1.8321	207.53	-----	-----	12.917
#1	-.00121	.15300	.00732	.00303	.00008	4046.	12580.	.00149
#2	.00014	.15468	.00793	.00311	-.00045	4042.	12570.	.00179
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3377.7**	**4547.8**	**28650.**	**9804.3**
Stddev	1.1	5.3	31.	8.9
%RSD	.03390	.11578	.10936	.09119
#1	3378.5	4551.5	28628.	9810.6
#2	3376.9	4544.0	28672.	9798.0

Sample Name: RB Acquired: 12/20/2012 13:00:05 Type: Unk
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179
Line	328.068 {103}	308.215 {109}	189.042 {478}	193.759 {474}	197.262 {471}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(none)	(none)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00131**	**-.03231**	**.00222**	**-.0037**	**-.0016**	**-.00211**	**-.00072**	**-.00072**	**-.03311**
Stddev	.00101	.03857	.00366	.0008	.0017	.00031	.00001	.00008	.00018
%RSD	77.020	119.38	164.84	20.83	109.7	14.873	1.0085	10.362	.54140
#1	-.00202	-.05958	-.00037	-.0042	-.0004	-.00188	-.00072	-.00067	-.03324
#2	-.00060	-.00504	.00481	-.0031	-.0028	-.00233	-.00073	-.00078	-.03298
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790
Line	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00073**	**-.00044**	**-.00085**	**-.00088**	**-.03343**	**-.03733**	**-.02430**	**.00110**	**-.03582**
Stddev	.00008	.00028	.00007	.00008	.00388	.00648	.00028	.00006	.00616
%RSD	11.171	62.743	7.6865	9.1095	11.604	17.370	1.1509	5.5218	17.185
#1	-.00079	-.00064	-.00089	-.00082	-.03069	-.03275	-.02411	.00114	-.04018
#2	-.00067	-.00025	-.00080	-.00093	-.03617	-.04192	-.02450	.00106	-.03147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**-.00065**	**-.03345**	**-.00093**	**-.00103**	**-.06406**	**-.00135**	**-.00126**	**-.02966**
Stddev	.00007	.00011	.00069	.00059	.00067	.00665	.00038	.00047	.01488
%RSD	40.127	16.896	2.0706	63.639	65.738	10.387	27.869	37.311	50.160
#1	-.00012	-.00057	-.03394	-.00051	-.00150	-.06877	-.00161	-.00093	-.04018
#2	-.00022	-.00073	-.03296	-.00134	-.00055	-.05936	-.00108	-.00160	-.01914
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	360.073 { 94}2	371.030 { 91}	206.200 {163}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(none)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	**-.00128**	**-.00071**	**-.00063**	**-.00031**	**-.00085**	*****	*****	**-.00111**
Stddev	.00016	.00000	.00031	.00145	.00026	-----	-----	.00078
%RSD	12.243	.10146	48.534	459.60	30.969	-----	-----	70.463
#1	-.00117	-.00071	-.00084	.00071	-.00067	3989.	12420.	-.00167
#2	-.00139	-.00071	-.00041	-.00134	-.00104	4007.	12500.	-.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3519.5**	**4586.5**	**29191.**	**9670.4**
Stddev	5.8	.6	173.	21.1
%RSD	.16491	.01329	.59317	.21785
#1	3523.7	4586.1	29313.	9685.3
#2	3515.4	4586.9	29068.	9655.5

Sample Name: RB Acquired: 12/20/2012 13:02:22 Type: Unk
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179
Line	328.068 {103}	308.215 {109}	189.042 {478}	193.759 {474}	197.262 {471}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(none)	(none)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00121**	**-.01421**	**.00126**	**-.0029**	**-.0020**	**-.00244**	**-.00072**	**-.00074**	**-.03923**
Stddev	.00087	.00078	.00302	.0001	.0007	.00064	.00002	.00002	.00286
%RSD	72.110	5.4879	239.51	5.126	32.71	26.065	2.3089	3.2128	7.2813
#1	-.00182	-.01476	-.00087	-.0030	-.0015	-.00199	-.00073	-.00073	-.04125
#2	-.00059	-.01366	.00340	-.0028	-.0024	-.00289	-.00071	-.00076	-.03721
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790
Line	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00064**	**-.00059**	**-.00072**	**-.00118**	**-.03641**	**-.04996**	**-.02502**	**-.00002**	**-.03503**
Stddev	.00006	.00002	.00034	.00031	.00151	.00416	.00006	.00043	.00310
%RSD	8.9238	3.3185	46.968	26.187	4.1338	8.3325	.25951	2086.1	8.8470
#1	-.00060	-.00058	-.00096	-.00140	-.03748	-.04701	-.02506	-.00033	-.03722
#2	-.00068	-.00061	-.00048	-.00096	-.03535	-.05290	-.02497	.00029	-.03284
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**-.00083**	**-.02782**	**-.00109**	**.00082**	**-.06996**	**-.00210**	**-.00151**	**-.03306**
Stddev	.00003	.00024	.00921	.00005	.00022	.00459	.00016	.00144	.01442
%RSD	8.0866	29.411	33.091	4.3433	26.690	6.5575	7.5922	95.034	43.614
#1	-.00035	-.00066	-.03433	-.00106	.00098	-.06672	-.00222	-.00253	-.02286
#2	-.00039	-.00100	-.02131	-.00113	.00067	-.07321	-.00199	-.00050	-.04325
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	360.073 { 94}2	371.030 { 91}	206.200 {163}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(none)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	**-.00134**	**-.00072**	**-.00066**	**.00076**	**-.00103**	*****	*****	**-.00144**
Stddev	.00071	.00009	.00054	.00206	.00047	-----	-----	.00014
%RSD	53.280	13.069	81.445	270.22	45.691	-----	-----	9.5352
#1	-.00184	-.00078	-.00028	-.00069	-.00070	3999.	12420.	-.00154
#2	-.00083	-.00065	-.00104	.00222	-.00137	4013.	12530.	-.00135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3506.9**	**4581.7**	**28892.**	**9667.1**
Stddev	.4	1.3	50.	34.5
%RSD	.01115	.02841	.17170	.35647
#1	3506.6	4582.6	28857.	9642.7
#2	3507.1	4580.7	28927.	9691.4

Sample Name: RB Acquired: 12/20/2012 13:04:39 Type: Unk
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179
Line	328.068 {103}	308.215 {109}	189.042 {478}	193.759 {474}	197.262 {471}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(none)	(none)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00099**	**-.00756**	**-.00196**	**-.0028**	**-.0004**	**-.00262**	**-.00073**	**-.00070**	**-.03728**
Stddev	.00005	.01101	.00158	.0010	.0002	.00033	.00001	.00011	.00258
%RSD	5.0721	145.56	80.509	36.97	50.35	12.436	.83343	16.104	6.9249
#1	-.00103	.00022	-.00085	-.0035	-.0006	-.00239	-.00073	-.00078	-.03545
#2	-.00095	-.01534	-.00308	-.0020	-.0003	-.00285	-.00072	-.00062	-.03910
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790
Line	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00069**	**-.00037**	**-.00039**	**-.00101**	**-.03805**	**-.04161**	**-.02485**	**.00002**	**-.03711**
Stddev	.00008	.00011	.00021	.00018	.00070	.01568	.00013	.00070	.00020
%RSD	11.039	30.490	52.501	17.515	1.8406	37.678	.51048	3577.9	.53480
#1	-.00074	-.00045	-.00054	-.00089	-.03855	-.05270	-.02494	-.00047	-.03725
#2	-.00063	-.00029	-.00025	-.00114	-.03756	-.03053	-.02476	.00051	-.03697
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**-.00094**	**-.02617**	**-.00096**	**-.00034**	**-.07183**	**-.00231**	**-.00093**	**-.03289**
Stddev	.00002	.00016	.00445	.00025	.00049	.00204	.00105	.00231	.00307
%RSD	4.7653	17.077	16.986	26.354	145.99	2.8393	45.342	249.00	9.3289
#1	-.00052	-.00083	-.02303	-.00078	-.00069	-.07327	-.00305	.00071	-.03072
#2	-.00049	-.00106	-.02932	-.00114	.00001	-.07039	-.00157	-.00256	-.03506
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	360.073 { 94}2	371.030 { 91}	206.200 {163}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(none)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	**-.00122**	**-.00069**	**-.00089**	**-.00104**	**-.00089**	*****	*****	**-.00140**
Stddev	.00004	.00008	.00009	.00024	.00021	-----	-----	.00020
%RSD	3.1600	11.420	9.5461	23.199	23.221	-----	-----	14.245
#1	-.00125	-.00063	-.00095	-.00121	-.00103	3998.	12450.	-.00126
#2	-.00120	-.00075	-.00083	-.00087	-.00074	4014.	12450.	-.00154
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3510.4**	**4579.7**	**29039.**	**9655.3**
Stddev	3.6	1.2	53.	17.7
%RSD	.10222	.02633	.18361	.18379
#1	3507.9	4580.6	29077.	9642.7
#2	3513.0	4578.9	29001.	9667.8

Sample Name: RB Acquired: 12/20/2012 13:06:57 Type: Unk
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179
Line	328.068 {103}	308.215 {109}	189.042 {478}	193.759 {474}	197.262 {471}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(none)	(none)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**-.02631**	**-.00081**	**-.0035**	**.0000**	**-.00273**	**-.00072**	**-.00078**	**-.04045**
Stddev	.00104	.00688	.00019	.0006	.003	.00093	.00000	.00002	.00419
%RSD	507.93	26.155	23.844	17.00	30620.	34.098	.08733	2.4458	10.360
#1	.00053	-.02145	-.00067	-.0039	.0021	-.00207	-.00072	-.00077	-.03748
#2	-.00094	-.03118	-.00095	-.0030	-.0021	-.00339	-.00072	-.00079	-.04341
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790
Line	228.802 {447}	228.616 {447}	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2
IS Ref	(Y_2243)	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00078**	**-.00054**	**-.00098**	**-.00113**	**-.03579**	**-.03806**	**-.02464**	**-.00059**	**-.03585**
Stddev	.00004	.00014	.00038	.00004	.00220	.01559	.00067	.00027	.00063
%RSD	4.6639	25.394	38.194	3.5482	6.1461	40.960	2.7031	45.800	1.7660
#1	-.00080	-.00063	-.00072	-.00110	-.03424	-.02704	-.02416	-.00078	-.03541
#2	-.00075	-.00044	-.00125	-.00116	-.03735	-.04909	-.02511	-.00040	-.03630
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00061**	**-.00071**	**-.03850**	**-.00079**	**-.00113**	**-.06686**	**-.00101**	**-.00034**	**-.04027**
Stddev	.00006	.00022	.00201	.00006	.00298	.00620	.00027	.00135	.02161
%RSD	9.5362	31.630	5.2178	7.1031	263.57	9.2777	27.116	390.72	53.674
#1	-.00065	-.00086	-.03992	-.00083	.00098	-.06248	-.00120	.00061	-.02498
#2	-.00056	-.00055	-.03708	-.00075	-.00324	-.07125	-.00082	-.00130	-.05555
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	360.073 { 94}2	371.030 { 91}	206.200 {163}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(none)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	**-.00181**	**-.00070**	**-.00098**	**.00110**	**-.00037**	*****	*****	**-.00159**
Stddev	.00037	.00001	.00014	.00016	.00000	-----	-----	.00079
%RSD	20.497	1.5088	14.404	14.578	.91613	-----	-----	49.521
#1	-.00155	-.00069	-.00108	.00121	-.00037	3985.	12390.	-.00104
#2	-.00207	-.00071	-.00088	.00098	-.00037	3977.	12430.	-.00215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3434.8**	**4481.9**	**28990.**	**9651.6**
Stddev	122.3	157.3	101.	35.0
%RSD	3.5600	3.5092	.34772	.36283
#1	3348.3	4370.7	28918.	9676.4
#2	3521.3	4593.1	29061.	9626.9

Sample Name: CCV Acquired: 12/20/2012 13:09:16 Type: QC
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51853	24.058	.49689	.5010	.4904	.50023	.49778	.49581	25.158	.49705	.48407	.48546	.48801
Stddev	.00024	.087	.00341	.0053	.0012	.00014	.00009	.00195	.035	.00036	.00028	.00199	.00058
%RSD	.04588	.36353	.68528	1.055	.2462	.02825	.01810	.39348	.13890	.07154	.05828	.41055	.11938
#1	.51836	23.996	.49930	.5047	.4895	.50033	.49772	.49443	25.133	.49730	.48427	.48405	.48760
#2	.51870	24.120	.49448	.4973	.4912	.50013	.49785	.49719	25.182	.49679	.48387	.48687	.48842
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.881	24.291	24.383	.48281	24.070	.51052	.48764	24.680	.49289	.49308	24.933	.51605	.48677
Stddev	.169	.124	.344	.00336	.045	.00048	.00105	.083	.00014	.00143	.033	.00038	.00101
%RSD	.70860	.51153	1.4096	.69666	.18495	.09414	.21467	.33740	.02835	.29080	.13253	.07352	.20749
#1	23.761	24.204	24.626	.48043	24.039	.51086	.48839	24.621	.49279	.49206	24.957	.51578	.48748
#2	24.000	24.379	24.140	.48519	24.102	.51018	.48690	24.739	.49299	.49409	24.910	.51632	.48605
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	24.696	.52347	.48779	.51063	.49342	.50537	z *****	z *****	.50359
Stddev	.178	.00065	.00169	.00092	.00281	.00025	-----	-----	.00020
%RSD	.72033	.12323	.34678	.18062	.56911	.04879	-----	-----	.03897
#1	24.570	.52393	.48660	.50998	.49541	.50519	z 4064.	z 12660.	.50373
#2	24.822	.52302	.48899	.51128	.49143	.50554	z 4033.	z 12630.	.50345
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
Value									
Range									

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3257.4	4525.3	28413.	9727.6
Stddev	5.2	.3	77.	46.7
%RSD	.15868	.00747	.27146	.48001
#1	3261.1	4525.6	28358.	9760.6
#2	3253.8	4525.1	28468.	9694.6

Sample Name: CCB Acquired: 12/20/2012 13:11:27 Type: QC
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00122**	**.00279**	**.00072**	**-.0036**	**.0011**	**-.00217**	**-.00062**	**-.00066**	**-.02580**	**-.00061**	**-.00048**	**-.00083**
Stddev	.00091	.01854	.00065	.0026	.0004	.00004	.00001	.00000	.00385	.00002	.00004	.00003
%RSD	74.281	663.98	90.557	72.32	35.55	1.6115	1.7649	.21077	14.936	3.8839	7.4870	3.1525
#1	-.00058	.01590	.00117	-.0054	.0014	-.00220	-.00061	-.00066	-.02307	-.00059	-.00051	-.00081
#2	-.00186	-.01032	.00026	-.0017	.0008	-.00215	-.00063	-.00066	-.02852	-.00062	-.00046	-.00085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00118**	**-.02032**	**-.02123**	**-.02111**	**-.00141**	**-.02694**	**-.00004**	**-.00060**	**-.00014**	**-.00033**	**-.00016**	F **-.06492**
Stddev	.00004	.00262	.03127	.00000	.00002	.00157	.00005	.00021	.00124	.00060	.00014	.00313
%RSD	3.2720	12.908	147.26	.00236	1.4189	5.8213	141.29	34.247	911.43	181.69	82.378	4.8271
#1	-.00115	-.01847	.00088	-.02111	-.00140	-.02805	.00000	-.00074	.00074	.00009	-.00026	-.06713
#2	-.00121	-.02218	-.04334	-.02111	-.00143	-.02583	-.00008	-.00045	-.00101	-.00075	-.00007	-.06270
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit												.05000
Low Limit												-.05000

Elem	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	**-.00256**	**-.00399**	**-.01973**	**-.00138**	**-.00051**	**-.00018**	**-.00011**	**-.00067**	z *****	z *****	**-.00086**
Stddev	.00226	.00382	.02928	.00061	.00008	.00010	.00087	.00039	-----	-----	.00035
%RSD	88.168	95.564	148.41	44.353	15.888	53.756	821.83	58.000	-----	-----	41.218
#1	-.00416	-.00669	.00097	-.00181	-.00057	-.00024	.00051	-.00095	z 4037.	z 12600.	-.00061
#2	-.00096	-.00129	-.04044	-.00094	-.00045	-.00011	-.00072	-.00040	z 4010.	z 12500.	-.00111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
High Limit											
Low Limit											

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3519.4**	**4582.9**	**29036.**	**9640.2**
Stddev	12.1	2.6	71.	25.4
%RSD	.34496	.05699	.24474	.26360
#1	3528.0	4584.8	28985.	9658.2
#2	3510.8	4581.1	29086.	9622.2

Sample Name: CRI-1107665 Acquired: 12/20/2012 13:13:45 Type: QC
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00250	.18428	.01173	.0084	W .0135	.02191	W .00137	W .00137	.52610	F .00037	.00359	.00409
Stddev	.00012	.00405	.00232	.0002	.0002	.00019	.00000	.00001	.00376	.00009	.00007	.00008
%RSD	4.8432	2.1990	19.747	2.736	1.538	.87133	.34543	.66267	.71448	24.647	1.9049	2.0718
#1	.00241	.18142	.01337	.0086	.0136	.02177	.00138	.00138	.52876	.00043	.00364	.00403
#2	.00258	.18715	.01009	.0083	.0133	.02204	.00137	.00136	.52344	.00030	.00354	.00415
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Warn	Chk Warn	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value					.0100		.00200	.00200		.00100		
Range					30.00%		-30.000%	-30.000%		-50.000%		

Elem	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00893	F .01902	.50099	.36454	.02944	.16790	.00260	.00996	.93135	.00889	.00542	-.01184
Stddev	.00046	.00057	.00936	.00318	.00062	.00024	.00000	.00008	.00382	.00024	.00144	.00714
%RSD	5.1329	2.9806	1.8679	.87101	2.0992	.14414	.11396	.81385	.41027	2.7016	26.504	60.320
#1	.00860	.01942	.49437	.36229	.02987	.16807	.00260	.00990	.93405	.00872	.00440	-.00679
#2	.00925	.01862	.50761	.36678	.02900	.16773	.00260	.01002	.92865	.00906	.00643	-.01690
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value		.05000										
Range		-50.000%										

Elem	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	.02009	.01201	.52715	F .00498	.00472	.00492	.02130	.00416	z *****	z *****	.01111
Stddev	.00236	.00400	.01758	.00008	.00003	.00035	.00003	.00011	-----	-----	.00010
%RSD	11.758	33.336	3.3349	1.5318	.53542	7.0779	.16330	2.7108	-----	-----	.94116
#1	.01842	.00918	.53958	.00492	.00474	.00468	.02132	.00424	z 4070.	z 12710.	.01103
#2	.02176	.01484	.51472	.00503	.00470	.00517	.02127	.00408	z 4035.	z 12630.	.01118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
Value				.01000							
Range				-50.000%							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3545.9	4625.3	29362.	9787.2
Stddev	5.0	4.8	40.	36.0
%RSD	.13970	.10273	.13627	.36808
#1	3549.4	4628.6	29390.	9812.6
#2	3542.4	4621.9	29334.	9761.7

Sample Name: ICSA-1101769 Acquired: 12/20/2012 13:16:02 Type: QC
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00138	481.76	-.00263	F .4306	-.0080	-.00806	-.00037	-.00069	474.64	.00139	-.00014	-.00022	.00152
Stddev	.00025	4.00	.00190	.0084	.0081	.00097	.00002	.00001	1.92	.00009	.00012	.00013	.00015
%RSD	17.893	.82994	72.341	1.947	101.9	12.053	4.3991	1.9580	.40471	6.2635	86.445	59.333	9.6597
#1	-.00156	484.58	-.00129	.4246	-.0137	-.00874	-.00036	-.00068	476.00	.00145	-.00006	-.00013	.00162
#2	-.00121	478.93	-.00398	.4365	-.0022	-.00737	-.00038	-.00070	473.29	.00133	-.00023	-.00032	.00142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.0200									
Low Limit				-.0200									

Elem	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	184.02	-.07215	-.02811	.00462	502.93	.00061	-.00404	-.04630	-.00053	.00242	-.14500	.00058	-.00396
Stddev	1.32	.01076	.00053	.00033	.42	.00003	.00031	.00689	.00030	.00110	.00173	.00070	.00033
%RSD	.71737	14.908	1.8804	7.1545	.08436	4.7518	7.7483	14.873	55.441	45.605	1.1918	119.45	8.2101
#1	184.95	-.07975	-.02774	.00485	503.23	.00059	-.00382	-.04143	-.00074	.00164	-.14622	.00009	-.00419
#2	183.09	-.06454	-.02848	.00438	502.63	.00063	-.00426	-.05117	-.00032	.00320	-.14378	.00108	-.00373
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	-.03811	.00105	.00469	.00347	-.00292	-.00006	z *****	z *****	-.00094
Stddev	.00877	.00006	.00000	.00047	.00175	.00032	-----	-----	.00089
%RSD	23.008	6.0360	.04728	13.588	60.037	539.82	-----	-----	94.678
#1	-.04431	.00101	.00469	.00380	-.00416	.00017	z 3849.	z 11970.	-.00157
#2	-.03191	.00110	.00469	.00313	-.00168	-.00029	z 3882.	z 12070.	-.00031
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
High Limit									
Low Limit									

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2623.9	4067.0	25198.	9353.5
Stddev	4.8	.4	95.	65.9
%RSD	.18420	.00991	.37746	.70493
#1	2620.5	4067.3	25265.	9306.9
#2	2627.3	4066.7	25130.	9400.2

Sample Name: ICSAB-1086099 Acquired: 12/20/2012 13:18:21 Type: QC
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.22272	490.64	.09545	F .5255	.0903	-.00423	.49435	.49517	469.63	1.0235	.49592	.46403	.52206
Stddev	.00259	3.48	.00132	.0065	.0054	.00063	.00139	.00304	3.43	.0045	.00045	.00273	.00222
%RSD	1.1631	.70830	1.3788	1.242	5.938	14.912	.28095	.61347	.72942	.43892	.09099	.58850	.42433
#1	.22089	493.10	.09638	.5301	.0865	-.00379	.49337	.49732	472.05	1.0203	.49561	.46210	.52050
#2	.22455	488.18	.09452	.5209	.0941	-.00468	.49533	.49302	467.20	1.0267	.49624	.46596	.52363
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.1000									
Range				20.00%									

Elem	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	91.522	-.05504	-.01436	.51478	511.79	.47828	-.00236	.03952	.99395	.05170	-.11923	.61670	.04348
Stddev	1.089	.00637	.00007	.00395	2.85	.00323	.00009	.00207	.00303	.00185	.00603	.00249	.00008
%RSD	1.1898	11.570	.50788	.76717	.55665	.67465	3.6558	5.2315	.30438	3.5757	5.0606	.40363	.18642
#1	92.292	-.05054	-.01431	.51758	509.78	.47600	-.00242	.04098	.99609	.05301	-.11496	.61846	.04353
#2	90.752	-.05955	-.01441	.51199	513.81	.48056	-.00230	.03806	.99181	.05039	-.12349	.61494	.04342
Check ?	Chk Pass	None	None	None	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value													
Range													

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	1.0164	.00040	.48585	.00273	.08754	.49587	z *****	z *****	.98079
Stddev	.0087	.00031	.00501	.00020	.00524	.00464	-----	-----	.00762
%RSD	.85873	77.045	1.0308	7.3625	5.9910	.93542	-----	-----	.77733
#1	1.0226	.00062	.48939	.00287	.08383	.49259	z 3891.	z 12140.	.97540
#2	1.0103	.00018	.48230	.00259	.09124	.49915	z 3945.	z 12300.	.98618
Check ?	None	None	None	None	Chk Pass	Chk Pass	None	None	Chk Pass
Value									
Range									

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2633.2	4092.6	25473.	9416.3
Stddev	6.6	19.4	93.	47.1
%RSD	.25176	.47289	.36357	.50024
#1	2637.9	4106.3	25539.	9383.0
#2	2628.6	4078.9	25408.	9449.7

Sample Name: CCV Acquired: 12/20/2012 13:20:35 Type: QC
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.52021	23.892	.49949	.4983	.4866	.50223	.49601	.49340	25.183	.49633	.48253	.48268	.48640
Stddev	.00058	.152	.00354	.0019	.0000	.00133	.00074	.00449	.229	.00115	.00020	.00108	.00031
%RSD	.11181	.63618	.70873	.3759	.0035	.26432	.14983	.91091	.90771	.23197	.04191	.22327	.06281
#1	.51980	23.784	.49699	.4996	.4866	.50317	.49653	.49022	25.021	.49714	.48268	.48344	.48662
#2	.52062	23.999	.50200	.4969	.4866	.50130	.49548	.49658	25.344	.49552	.48239	.48191	.48619
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.815	24.216	23.962	.48079	24.031	.51206	.48636	24.664	.48968	.49173	24.958	.51593	.48297
Stddev	.162	.254	.103	.00397	.027	.00067	.00129	.241	.00016	.00057	.015	.00275	.00251
%RSD	.67887	1.0489	.42876	.82547	.11271	.13058	.26551	.97515	.03187	.11580	.06018	.53336	.51892
#1	23.701	24.036	24.035	.47798	24.050	.51253	.48727	24.494	.48957	.49214	24.968	.51787	.48475
#2	23.930	24.395	23.890	.48360	24.012	.51158	.48544	24.834	.48979	.49133	24.947	.51398	.48120
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	24.649	.52573	.48458	.51032	.48955	.50568	z *****	z *****	.50857
Stddev	.202	.00129	.00459	.00198	.00359	.00090	-----	-----	.00046
%RSD	.81930	.24516	.94679	.38742	.73396	.17769	-----	-----	.09072
#1	24.506	.52482	.48134	.51172	.49209	.50631	z 4049.	z 12600.	.50825
#2	24.792	.52664	.48783	.50892	.48701	.50504	z 4032.	z 12570.	.50890
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
Value									
Range									

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3271.4	4530.3	28446.	9709.3
Stddev	10.4	16.4	20.	33.9
%RSD	.31744	.36200	.06972	.34865
#1	3278.8	4541.9	28460.	9733.2
#2	3264.1	4518.7	28432.	9685.3

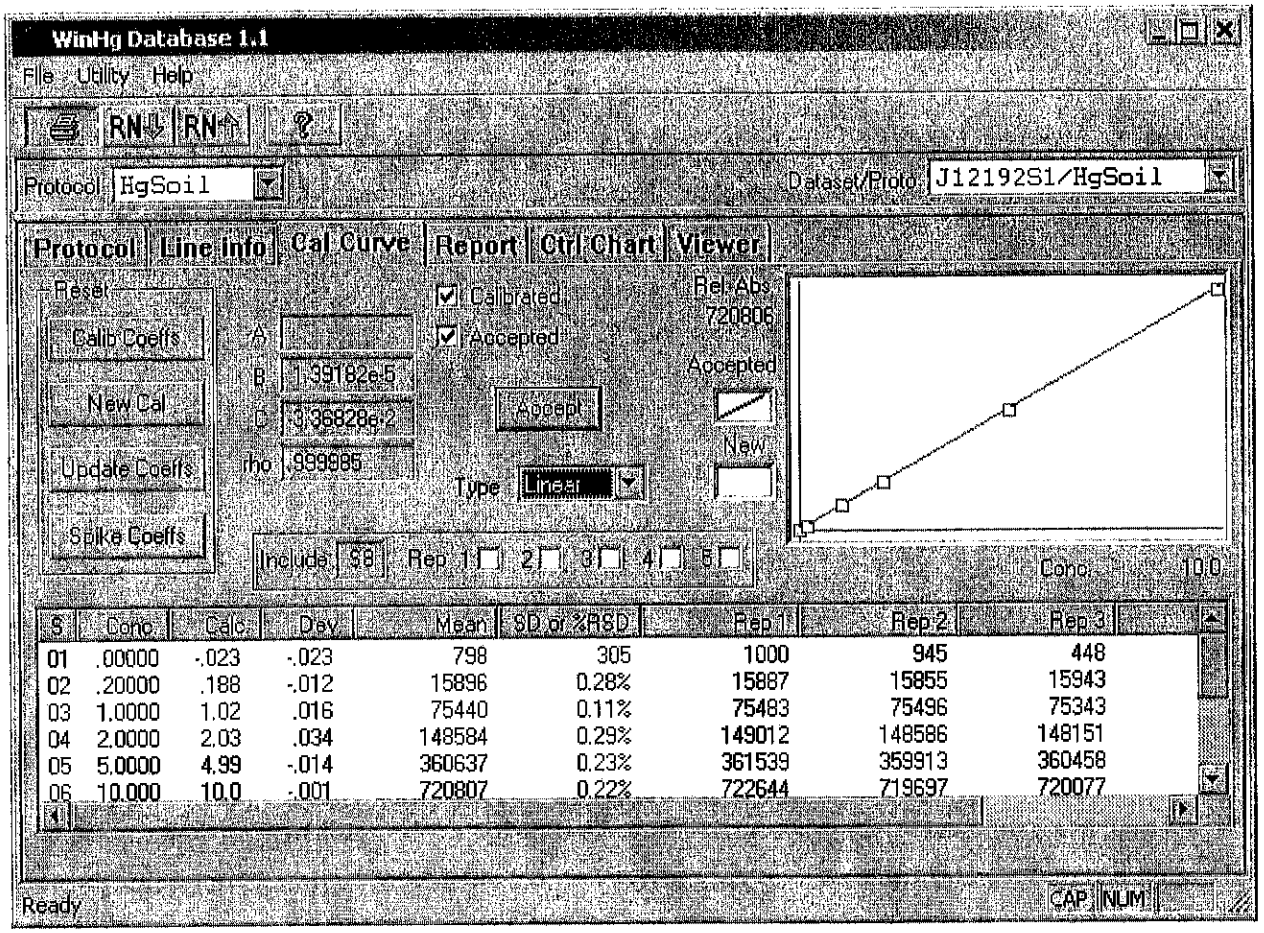
Sample Name: CCB Acquired: 12/20/2012 13:22:46 Type: QC
Method: ICAP2 2012 (v117) Mode: CONC Corr. Factor: 1.000000
User: LMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	As1937	As1972	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00091**	**-.01735**	**.00004**	**-.0021**	**.0008**	**-.00239**	**-.00071**	**-.00058**	**-.03150**	**-.00060**	**-.00057**	**-.00021**
Stddev	.00028	.00857	.00064	.0018	.0054	.00006	.00001	.00002	.00055	.00012	.00010	.00001
%RSD	30.685	49.415	1769.4	84.70	653.3	2.5567	1.8868	2.8734	1.7384	19.779	17.153	4.0286
#1	-.00071	-.01129	-.00042	-.0034	.0046	-.00235	-.00072	-.00059	-.03111	-.00052	-.00064	-.00022
#2	-.00111	-.02341	.00049	-.0009	-.0030	-.00244	-.00070	-.00056	-.03189	-.00068	-.00050	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00133**	**-.03417**	**-.02751**	**-.02390**	**.00048**	**-.02675**	**-.00058**	**-.00069**	**-.03678**	**-.00077**	**.00082**	F **-.07194**
Stddev	.00003	.00071	.03701	.00019	.00022	.00042	.00007	.00018	.00567	.00012	.00027	.00183
%RSD	2.3078	2.0769	134.57	.79593	45.132	1.5666	12.989	25.807	15.409	15.789	33.423	2.5492
#1	-.00131	-.03367	-.05368	-.02376	.00033	-.02705	-.00063	-.00056	-.04078	-.00085	.00101	-.07324
#2	-.00135	-.03468	-.00133	-.02403	.00064	-.02646	-.00052	-.00081	-.03277	-.00068	.00063	-.07065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit												.05000
Low Limit												-.05000

Elem	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Y_3600-2	Y_3710	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S	Cts/S	ppm
Avg	**-.00096**	**-.00030**	**-.02853**	**-.00155**	**-.00074**	**-.00125**	**-.00058**	**-.00060**	z *****	z *****	**-.00093**
Stddev	.00180	.00127	.00698	.00001	.00003	.00014	.00090	.00035	-----	-----	.00030
%RSD	188.32	421.44	24.471	.94618	4.4680	10.884	156.74	58.840	-----	-----	32.103
#1	.00032	-.00120	-.03347	-.00154	-.00076	-.00115	.00006	-.00085	z 4033.	z 12610.	-.00072
#2	-.00223	.00060	-.02359	-.00156	-.00072	-.00134	-.00122	-.00035	z 4028.	z 12550.	-.00114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
High Limit											
Low Limit											

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3534.6**	**4595.1**	**29125.**	**9713.0**
Stddev	3.6	6.0	54.	7.5
%RSD	.10170	.13119	.18471	.07696
#1	3537.2	4599.4	29163.	9707.7
#2	3532.1	4590.9	29087.	9718.2



L3
12/19/12

96577

Cal: J12192C1

Run: J12192S1

Batch: 96554

Protocol: HgSoil
POST-RUN REPORT

96577

```
Line    Conc.  Units     SD/RSD      1        2        3        4        5
-----------------------------------------------------------------------------

*** Check Standard: 2  Ck2ICV        Seq:  1        12:11:56 19 Dec 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          97.9    2.94    3.00   ppb        .000

*** Check Standard: 1  Ck1CCB        Seq:  2        12:14:04 19 Dec 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.032     .200     ppb        .000

*** Check Standard: 4  Ck4CRA        Seq:  3        12:16:02 19 Dec 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          88.1    .176    .200   ppb        .000

*** Check Standard: 3  Ck3CCV        Seq:  4        12:17:50 19 Dec 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          95.6    1.91    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB        Seq:  5        12:19:26 19 Dec 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.042     .200     ppb        .000

*** Sample ID:                       Seq:  6        12:21:21 19 Dec 12   HG
                          mb 480-96554/1-a
Hg    .006    ppb       .000      .006

*** Sample ID:                       Seq:  7        12:23:01 19 Dec 12   HG
                          lcssrm 480-96554/2-a
Hg    3.39    ppb       .000      3.39

*** Sample ID:                       Seq:  8        12:24:50 19 Dec 12   HG
                          lcdsrm 480-96554/3-a
Hg    3.37    ppb       .000      3.37

*** Sample ID:                       Seq:  9        12:26:27 19 Dec 12   HG
                          480-30342-f-2-a
Hg   -.034    ppb       .000     -.034

*** Sample ID:                       Seq:  10       12:28:02 19 Dec 12   HG
                          480-30342-f-3-a
Hg   -.034    ppb       .000     -.034

*** Sample ID:                       Seq:  11       12:30:18 19 Dec 12   HG
                          480-30342-e-4-a
Hg   -.022    ppb       .000     -.022

*** Sample ID:                       Seq:  12       12:32:30 19 Dec 12   HG
                          480-30342-e-5-a
Hg   -.015    ppb       .000     -.015

*** Sample ID:                       Seq:  13       12:34:36 19 Dec 12   HG
                          480-30342-f-6-a
Hg    .023    ppb       .000      .023

*** Sample ID:                       Seq:  14       12:36:23 19 Dec 12   HG
                          480-30342-e-7-a
Hg   -.008    ppb       .000     -.008

*** Sample ID:                       Seq:  15       12:38:05 19 Dec 12   HG
                          480-30342-f-8-a
Hg    .022    ppb       .000      .022
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Check Standard: 3  Ck3CCV       Seq:  16      12:39:52 19 Dec 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          95.3     1.91    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB       Seq:  17      12:41:29 19 Dec 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.035     .200     ppb        .000

*** Sample ID:                      Seq:  18      12:43:06 19 Dec 12   HG
                           480-30409-a-1-a
Hg    .140    ppb       .000      .140

*** Sample ID:                      Seq:  19      12:44:42 19 Dec 12   HG
                           480-30387-a-1-a
Hg   -.006    ppb       .000     -.006

*** Sample ID:                      Seq:  20      12:46:17 19 Dec 12   HG
                           480-30406-e-1-a
Hg    .571    ppb       .000      .571

*** Sample ID:                      Seq:  21      12:48:26 19 Dec 12   HG
                           480-30406-e-1-a SD@5
Hg    .099    ppb       .000      .099

*** Sample ID:                      Seq:  22      12:50:01 19 Dec 12   HG
                           480-30406-e-1-b ms
Hg    4.33    ppb       .000      4.33

*** Sample ID:                      Seq:  23      12:51:47 19 Dec 12   HG
                           480-30406-e-1-c msd
Hg    4.23    ppb       .000      4.23

*** Sample ID:                      Seq:  24      12:53:23 19 Dec 12   HG
                           480-30406-e-2-a
Hg    .436    ppb       .000      .436

*** Sample ID:                      Seq:  25      12:55:20 19 Dec 12   HG
                           480-30406-d-3-a
Hg    .626    ppb       .000      .626

*** Sample ID:                      Seq:  26      12:57:16 19 Dec 12   HG
                           480-30406-d-4-a
Hg    .460    ppb       .000      .460

*** Check Standard: 4  Ck4CRA       Seq:  27      12:59:13 19 Dec 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          87.0     .174    .200   ppb        .000

*** Check Standard: 3  Ck3CCV       Seq:  28      13:00:51 19 Dec 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          95.0     1.90    2.00   ppb        .000

*** Check Standard: 1  Ck1CCB       Seq:  29      13:03:27 19 Dec 12   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.029     .200     ppb        .000
```

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Batch Number: 96586 Batch Start Date: 12/19/12 12:00 Batch Analyst: Setang, Steven

Batch Method: 3050B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	MED_01_Si 00019	MED_01_W1 00011	MED_02_W2 00010
MB 480-96586/1		3050B, 6010		CALC NOT SET TO RUN	+0.4742 g	50 mL			
LCSSRM 480-96586/2		3050B, 6010		CALC NOT SET TO RUN	+0.4994 g	50 mL			
LCDSRM 480-96586/3		3050B, 6010		CALC NOT SET TO RUN	+0.5001 g	50 mL			
480-30406-E-1	OC-SD-SD-503-XXX	3050B, 6010	T	CALC NOT SET TO RUN	+0.5654 g	50 mL			
480-30406-E-2	OC-SD-SD-504-XXX	3050B, 6010	T	CALC NOT SET TO RUN	+0.5611 g	50 mL			
480-30406-D-3	OC-SD-SD-501-XXX	3050B, 6010	T	CALC NOT SET TO RUN	+0.5123 g	50 mL			
480-30406-D-4	OC-SD-SD-502-XXX	3050B, 6010	T	CALC NOT SET TO RUN	+0.4979 g	50 mL			
480-30406-D-4 MS	OC-SD-SD-502-XXX	3050B, 6010	T	CALC NOT SET TO RUN	+0.4873 g	50 mL	0.5 mL	0.5 mL	0.5 mL
480-30406-D-4 MSD	OC-SD-SD-502-XXX	3050B, 6010	T	CALC NOT SET TO RUN	+0.5277 g	50 mL	0.5 mL	0.5 mL	0.5 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MED_03_Ag 00026	MED_04_Sn 00024	MED_SRM_D078 00003			
MB 480-96586/1		3050B, 6010							
LCSSRM 480-96586/2		3050B, 6010				0.5 mL			
LCDSRM 480-96586/3		3050B, 6010				0.5 mL			
480-30406-E-1	OC-SD-SD-503-XXX	3050B, 6010	T						
480-30406-E-2	OC-SD-SD-504-XXX	3050B, 6010	T						
480-30406-D-3	OC-SD-SD-501-XXX	3050B, 6010	T						
480-30406-D-4	OC-SD-SD-502-XXX	3050B, 6010	T						
480-30406-D-4 MS	OC-SD-SD-502-XXX	3050B, 6010	T	0.5 mL	0.5 mL				
480-30406-D-4 MSD	OC-SD-SD-502-XXX	3050B, 6010	T	0.5 mL	0.5 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 Buffalo Job No.: 480-30406-1

SDG No.:

Batch Number: 96586 Batch Start Date: 12/19/12 12:00 Batch Analyst: Setang, Steven

Batch Method: 3050B Batch End Date:

Batch Notes	
Analyst	JMM
Balance ID	25850472
Batch Comment	20313762
Blank Soil Lot Number	868632
First End time	1400
Hydrogen peroxide lot number	0000010846
Lot # of hydrochloric acid	0000016213
Lot # of Nitric Acid	21587
Hot Block ID number	-F-
Oven, Bath or Block Temperature 1	96.2 Degrees C
Oven, Bath or Block Temperature 2	Auto Degrees C
Pipette ID	MDL-4
First Start time	1200
ID number of the thermometer	111404326
Digestion Tube/Cup Lot #	1207143
Uncorrected Temperature	95.7 Celsius
Uncorrected Temperature 2	Auto Degrees C

Basis	Basis Description
T	Total/NA

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

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Batch Number: 104616 Batch Start Date: 02/25/13 09:10 Batch Analyst: Mantell, Jaclyn

Batch Method: 3050B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	MED_SRM_D079 00001	AnalysisComment	
MB 480-104616/1		3050B, 6010		CALC NOT SET TO RUN	+0.5002 g	50 mL			
LCSSRM 480-104616/2		3050B, 6010		CALC NOT SET TO RUN	+0.5007 g	50 mL	0.5 mL		
LCDSRM 480-104616/3		3050B, 6010		CALC NOT SET TO RUN	+0.5005 g	50 mL	0.5 mL		
480-30406-C-1	OC-SD-SD-503-XXX	3050B, 6010	T	CALC NOT SET TO RUN	+0.5070 g	50 mL		re-di Sn added	
480-30406-C-2	OC-SD-SD-504-XXX	3050B, 6010	T	CALC NOT SET TO RUN	+0.5212 g	50 mL		re-di Sn added	
480-30406-E-3	OC-SD-SD-501-XXX	3050B, 6010	T	CALC NOT SET TO RUN	+0.5042 g	50 mL		re-di Sn added	
480-30406-E-4	OC-SD-SD-502-XXX	3050B, 6010	T	CALC NOT SET TO RUN	+0.5118 g	50 mL		re-di Sn added	

Batch Notes	
Balance ID	25850472
Batch Comment	20313767
Blank Soil Lot Number	868633
First End time	1110
Hydrogen peroxide lot number	0000021147
Lot # of hydrochloric acid	UN1789
Lot # of Nitric Acid	0000021587
Hot Block ID number	-F-
Oven, Bath or Block Temperature 1	96.4 Degrees C
Oven, Bath or Block Temperature 2	auto temp control Degrees C
Pipette ID	MDL-4
First Start time	910
ID number of the thermometer	111404326
Digestion Tube/Cup Lot #	1208057
Uncorrected Temperature	95.9 Celsius
Uncorrected Temperature 2	auto temp control Degrees C

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 Buffalo Job No.: 480-30406-1

SDG No.:

Batch Number: 104616 Batch Start Date: 02/25/13 09:10 Batch Analyst: Mantell, Jaclyn

Batch Method: 3050B Batch End Date:

Basis	Basis Description
T	Total/NA

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

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Batch Number: 96554 Batch Start Date: 12/19/12 09:40 Batch Analyst: Kacalski, Jason

Batch Method: 7471A Batch End Date: 12/19/12 10:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG2_WKG 00256	MEH_SRM_D071 00003		
MB 480-96554/1		7471A, 7471A		+0.6544 g	50 mL				
LCSSRM 480-96554/2		7471A, 7471A		+0.0534 g	50 mL		0.0534 g		
LCDSRM 480-96554/3		7471A, 7471A		+0.0531 g	50 mL		0.0531 g		
480-30406-E-1	OC-SD-SD-503-XXX	7471A, 7471A	T	+0.5991 g	50 mL				
480-30406-E-1 MS	OC-SD-SD-503-XXX	7471A, 7471A	T	+0.6016 g	50 mL	2 mL			
480-30406-E-1 MSD	OC-SD-SD-503-XXX	7471A, 7471A	T	+0.6454 g	50 mL	2 mL			
480-30406-E-2	OC-SD-SD-504-XXX	7471A, 7471A	T	+0.6230 g	50 mL				
480-30406-D-3	OC-SD-SD-501-XXX	7471A, 7471A	T	+0.6252 g	50 mL				
480-30406-D-4	OC-SD-SD-502-XXX	7471A, 7471A	T	+0.5835 g	50 mL				

Batch Notes	
Hydroxylamine Hydrochloride Lot	1057653
Balance ID	25850472
Batch Comment	Prep Batch: 96577
Lot # of hydrochloric acid	919953
Lot # of Nitric Acid	864611
Hot Block ID number	HG-B
Potassium Permanganate Lot Number	1057588
Oven, Bath or Block Temperature 1	95.0
Stannous Chloride Lot Number	1099856
ID number of the thermometer	A02-24-10
Digestion Tube/Cup Lot #	1207143
Uncorrected Temperature	95.0 Celsius

Basis	Basis Description
T	Total/NA

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

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-30406-1

SDG No.:

Project: Olin Chemical Wilmington MA Superfund

Client Sample ID	Lab Sample ID
OC-SD-SD-503-XXX	480-30406-1
OC-SD-SD-504-XXX	480-30406-2
OC-SD-SD-501-XXX	480-30406-3
OC-SD-SD-502-XXX	480-30406-4

Comments:

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Westfield Job Number: 480-30406-1

SDG No.:

Project: Olin Chemical Wilmington MA Superfund

Client Sample ID	Lab Sample ID
OC-SD-SD-503-XXX	480-30406-1
OC-SD-SD-504-XXX	480-30406-2
OC-SD-SD-501-XXX	480-30406-3
OC-SD-SD-502-XXX	480-30406-4

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SD-SD-503-XXX
Lab Sample ID: 480-30406-1
Lab Name: TestAmerica Buffalo
Job No.: 480-30406-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/17/2012 14:30
Reporting Basis: DRY
Date Received: 12/17/2012 18:50
% Solids: 63.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
16887-00-6	Chloride	6.3	6.9	3.9	mg/Kg	J		1	300.0
14808-79-8	Sulfate	900	27	4.8	mg/Kg			1	300.0

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - ASTM LEACH

Client Sample ID: OC-SD-SD-503-XXX
Lab Sample ID: 480-30406-1
Lab Name: TestAmerica Buffalo
Job No.: 480-30406-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/17/2012 14:30
Reporting Basis: WET
Date Received: 12/17/2012 18:50

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	14	3.9	2.0	mg/Kg			1	350.1
	TOC Result 1	110	20	7.1	mg/Kg			1	9060
	TOC Result 2	110	20	7.1	mg/Kg			1	9060
7440-44-0	Total Organic Carbon - Duplicates	110	20	7.1	mg/Kg			1	9060

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SD-SD-504-XXX
Lab Sample ID: 480-30406-2
Lab Name: TestAmerica Buffalo
Job No.: 480-30406-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/17/2012 15:00
Reporting Basis: DRY
Date Received: 12/17/2012 18:50
% Solids: 56.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
16887-00-6	Chloride	13	8.2	4.6	mg/Kg			1	300.0
14808-79-8	Sulfate	1900	65	11	mg/Kg			2	300.0

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - ASTM LEACH

Client Sample ID: OC-SD-SD-504-XXX
Lab Sample ID: 480-30406-2
Lab Name: TestAmerica Buffalo
Job No.: 480-30406-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/17/2012 15:00
Reporting Basis: WET
Date Received: 12/17/2012 18:50

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	22	3.9	2.0	mg/Kg			1	350.1
	TOC Result 1	58	20	7.0	mg/Kg			1	9060
	TOC Result 2	63	20	7.0	mg/Kg			1	9060
7440-44-0	Total Organic Carbon - Duplicates	60	20	7.0	mg/Kg			1	9060

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SD-SD-501-XXX
Lab Sample ID: 480-30406-3
Lab Name: TestAmerica Buffalo
Job No.: 480-30406-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/17/2012 12:15
Reporting Basis: DRY
Date Received: 12/17/2012 18:50
% Solids: 71.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
16887-00-6	Chloride	24	6.1	3.5	mg/Kg			1	300.0
14808-79-8	Sulfate	510	25	4.3	mg/Kg			1	300.0

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - ASTM LEACH

Client Sample ID: OC-SD-SD-501-XXX
Lab Sample ID: 480-30406-3
Lab Name: TestAmerica Buffalo
Job No.: 480-30406-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/17/2012 12:15
Reporting Basis: WET
Date Received: 12/17/2012 18:50

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	17	3.8	1.9	mg/Kg			1	350.1
	TOC Result 1	87	19	6.9	mg/Kg			1	9060
	TOC Result 2	92	19	6.9	mg/Kg			1	9060
7440-44-0	Total Organic Carbon - Duplicates	90	19	6.9	mg/Kg			1	9060

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SD-SD-502-XXX
Lab Sample ID: 480-30406-4
Lab Name: TestAmerica Buffalo
Job No.: 480-30406-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/17/2012 12:45
Reporting Basis: DRY
Date Received: 12/17/2012 18:50
% Solids: 69.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
16887-00-6	Chloride	18	7.1	4.0	mg/Kg			1	300.0
14808-79-8	Sulfate	1200	28	5.0	mg/Kg			1	300.0

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - ASTM LEACH

Client Sample ID: OC-SD-SD-502-XXX
Lab Sample ID: 480-30406-4
Lab Name: TestAmerica Buffalo
Job No.: 480-30406-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/17/2012 12:45
Reporting Basis: WET
Date Received: 12/17/2012 18:50

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7664-41-7	Ammonia	35	4.0	2.0	mg/Kg			1	350.1
	TOC Result 1	79	20	7.1	mg/Kg			1	9060
	TOC Result 2	81	20	7.1	mg/Kg			1	9060
7440-44-0	Total Organic Carbon - Duplicates	80	20	7.1	mg/Kg			1	9060

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SD-SD-503-XXX
Lab Sample ID: 480-30406-1
Lab Name: TestAmerica Westfield
Job No.: 480-30406-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/17/2012 14:30
Reporting Basis: WET
Date Received: 12/17/2012 18:50

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	6.98	1.00		SU			1	9045C
	Oxidation Reduction Potential	(-) 32	0.010		millivolts			1	SM 2580B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SD-SD-504-XXX
Lab Sample ID: 480-30406-2
Lab Name: TestAmerica Westfield
Job No.: 480-30406-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/17/2012 15:00
Reporting Basis: WET
Date Received: 12/17/2012 18:50

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	6.99	1.00		SU			1	9045C
	Oxidation Reduction Potential	(-) 31	0.010		millivolts			1	SM 2580B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SD-SD-501-XXX
Lab Sample ID: 480-30406-3
Lab Name: TestAmerica Westfield
Job No.: 480-30406-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/17/2012 12:15
Reporting Basis: WET
Date Received: 12/17/2012 18:50

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	7.32	1.00		SU			1	9045C
	Oxidation Reduction Potential	(-) 31	0.010		millivolts			1	SM 2580B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SD-SD-502-XXX
Lab Sample ID: 480-30406-4
Lab Name: TestAmerica Westfield
Job No.: 480-30406-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/17/2012 12:45
Reporting Basis: WET
Date Received: 12/17/2012 18:50

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	7.23	1.00		SU			1	9045C
	Oxidation Reduction Potential	(-) 32	0.010		millivolts			1	SM 2580B

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Analyst: KS Batch Start Date: 12/26/2012

Reporting Units: mg/L Analytical Batch No.: 97353

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	07:56	Ammonia	1.01	1.00	101	90-110		WC_NH3_STD_00007
2	CCB	07:57	Ammonia	ND					
13	CCV	08:08	Ammonia	1.01	1.00	101	90-110		WC_NH3_STD_00007
14	CCB	08:09	Ammonia	ND					
25	CCV	08:19	Ammonia	1.00	1.00	100	90-110		WC_NH3_STD_00007
26	CCB	08:20	Ammonia	ND					
49	CCV	08:46	Ammonia	1.02	1.00	102	90-110		WC_NH3_STD_00007
50	CCB	08:47	Ammonia	ND					
60	CCV	08:56	Ammonia	1.01	1.00	101	90-110		WC_NH3_STD_00007
61	CCB	08:57	Ammonia	ND					

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Analyst: KAC Batch Start Date: 12/28/2012

Reporting Units: mg/L Analytical Batch No.: 97680

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	11:55	Chloride	20.3	20.0	101	90-110		IC_ANION_LCS__00012
			Sulfate	20.8	20.0	104	90-110		IC_ANION_LCS__00012
2	CCB	12:05	Chloride	ND					
			Sulfate	ND					
13	CCV	13:58	Chloride	20.0	20.0	100	90-110		IC_ANION_LCS__00012
			Sulfate	20.3	20.0	102	90-110		IC_ANION_LCS__00012
14	CCB	14:08	Chloride	ND					
			Sulfate	ND					
20	CCV	15:09	Chloride	20.2	20.0	101	90-110		IC_ANION_LCS__00012
			Sulfate	20.7	20.0	104	90-110		IC_ANION_LCS__00012
21	CCB	15:19	Chloride	ND					
			Sulfate	ND					

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Analyst: KC Batch Start Date: 12/28/2012

Reporting Units: mg/L Analytical Batch No.: 97733

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
25	CCV	03:11	TOC Result 1	61.4	60.0	102	90-110		WC_60PPM INT4_00020
			TOC Result 2	64.3	60.0	107	90-110		WC_60PPM INT4_00020
			Total Organic Carbon - Duplicates	62.8	60.0	105	90-110		WC_60PPM INT4_00020
26	CCB	03:40	TOC Result 1	ND					
			TOC Result 2	ND					
			Total Organic Carbon - Duplicates	ND					
37	CCV	09:03	TOC Result 1	60.2	60.0	100	90-110		WC_60PPM INT4_00020
			TOC Result 2	63.0	60.0	105	90-110		WC_60PPM INT4_00020
			Total Organic Carbon - Duplicates	61.6	60.0	103	90-110		WC_60PPM INT4_00020
38	CCB	09:32	TOC Result 1	ND					
			TOC Result 2	ND					
			Total Organic Carbon - Duplicates	ND					
49	CCV	14:55	TOC Result 1	62.9	60.0	105	90-110		WC_60PPM INT4_00020
			TOC Result 2	62.3	60.0	104	90-110		WC_60PPM INT4_00020
			Total Organic Carbon - Duplicates	62.6	60.0	104	90-110		WC_60PPM INT4_00020
50	CCB	15:25	TOC Result 1	ND					
			TOC Result 2	ND					
			Total Organic Carbon - Duplicates	ND					

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Westfield Job No.: 480-30406-1

SDG No.:

Analyst: GRB Batch Start Date: 12/18/2012

Reporting Units: SU Analytical Batch No.: 97429

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
7	CCV	12:45	pH	5.970	6.00	100	90-110		W12H_PH_6_00001

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

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 97680 Date: 12/28/2012 12:26							
300.0	MB 480-97670/2-A	Chloride	ND		mg/Kg	4.9	1
300.0	MB 480-97670/2-A	Sulfate	ND		mg/Kg	20	1
Batch ID: 97353 Date: 12/26/2012 07:59 Prep Batch: 97203 Date: 12/22/2012 18:22							
350.1	MB 480-97203/2-A	Ammonia	ND		mg/Kg	0.20	1
Batch ID: 97353 Date: 12/26/2012 08:48							
350.1	MB 480-96922/3-A	Ammonia	ND		mg/Kg	4.0	1
Batch ID: 97733 Date: 12/28/2012 04:09							
9060	MB 480-97733/27	TOC Result 1	ND		mg/Kg	1.0	1
9060	MB 480-97733/27	TOC Result 2	ND		mg/Kg	1.0	1
9060	MB 480-97733/27	Total Organic Carbon - Duplicates	ND		mg/Kg	1.0	1
Batch ID: 97733 Date: 12/28/2012 12:28							
9060	MB 480-96922/1-A	TOC Result 1	ND		mg/Kg	20	1
9060	MB 480-96922/1-A	TOC Result 2	ND		mg/Kg	20	1
9060	MB 480-96922/1-A	Total Organic Carbon - Duplicates	ND		mg/Kg	20	1

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Westfield Job No.: 480-30406-1

SDG No.:

Matrix: Solid

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 97429 Date: 12/18/2012 11:01								
9045C	OC-SD-SD-502-XXX	480-30406-4	pH	7.23	SU			
9045C	OC-SD-SD-502-XXX	480-30406-4 DU	pH	7.290	SU	0.8	10.0	
Batch ID: 97430 Date: 12/18/2012 11:01								
SM 2580B	OC-SD-SD-502-XXX	480-30406-4	Oxidation Reduction Potential	(-) 32	millivolts			
SM 2580B	OC-SD-SD-502-XXX	480-30406-4 DU	Oxidation Reduction Potential	(-) 32	millivolts	NC	20	

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

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Matrix: Solid

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 97680		Date: 12/28/2012 12:15									
						LCS Source: IC_ANION_STK__00011					
300.0	LCS 480-97670/1-A	Chloride	173		mg/Kg	171	102	90-110			
300.0	LCS 480-97670/1-A	Sulfate	177		mg/Kg	171	104	90-110			
Batch ID: 97733		Date: 12/28/2012 04:38									
						LCS Source: WC_60PPM INT4_00020					
9060	LCS 480-97733/28	TOC Result 1	58.7		mg/Kg	60.0	98	90-110			
9060	LCS 480-97733/28	TOC Result 2	62.6		mg/Kg	60.0	104	90-110			
9060	LCS 480-97733/28	Total Organic Carbon - Duplicates	60.7		mg/Kg	60.0	101	90-110			

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

FORM VIIA-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 97353	Date: 12/26/2012 07:58		Prep Batch: 97203			Date: 12/22/2012 18:22					
						LCS Source: WC_NH3_STD_00007					
350.1	LCS 480-97203/1-A	Ammonia	0.941		mg/Kg	1.00	94	90-110			

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

FORM VIIA-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Westfield Job No.: 480-30406-1

SDG No.:

Matrix: Solid

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 97429		Date: 12/18/2012 10:44									
						LCS Source:	W12H_PH_6_00001				
9045C	LCS 360-97427/1-A	pH	5.950		SU	6.00	99	90-110			
Batch ID: 97430		Date: 12/18/2012 10:38									
						LCS Source:	W12L_ORP_LCS_00001				
SM 2580B	LCS 360-97428/1-A	Oxidation Reduction Potential	476		millivolts	475	100	85-115			

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

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY - ASTM LEACH

Lab Name: TestAmerica Buffalo Job Number: 480-30406-1

SDG Number:

Matrix: Solid Instrument ID: LACHAT1

Method: 350.1 MDL Date: 09/10/2010 00:00

Prep Method: Distill/Ammonia

Leach Method: D3987-85

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Ammonia		4	2

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY - ASTM LEACH

Lab Name: TestAmerica Buffalo Job Number: 480-30406-1

SDG Number:

Matrix: Solid Instrument ID: LACHAT1

Method: 350.1 XMDL Date: 09/10/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Ammonia		0.02	0.009

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY - SOLUBLE

Lab Name: TestAmerica Buffalo Job Number: 480-30406-1

SDG Number:

Matrix: Solid Instrument ID: IC-2

Method: 300.0 MDL Date: 08/11/2010 00:00

Leach Method: DI Leach

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Chloride		5	2.82
Sulfate		20	3.49

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY - SOLUBLE

Lab Name: TestAmerica Buffalo Job Number: 480-30406-1

SDG Number:

Matrix: Solid Instrument ID: IC-2

Method: 300.0 XMDL Date: 08/11/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Chloride		0.5	0.282
Sulfate		2	0.349

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY - ASTM LEACH

Lab Name: TestAmerica Buffalo Job Number: 480-30406-1

SDG Number:

Matrix: Solid Instrument ID: TOC10301

Method: 9060 MDL Date: 04/13/2010 00:00

Leach Method: D3987-85

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
TOC Result 1		20	7.2
TOC Result 2		20	7.2
Total Organic Carbon - Duplicates		20	7.2

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY - ASTM LEACH

Lab Name: TestAmerica Buffalo Job Number: 480-30406-1

SDG Number:

Matrix: Solid Instrument ID: TOC10301

Method: 9060 XMDL Date: 04/13/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
TOC Result 1		1	0.434
TOC Result 2		1	0.434
Total Organic Carbon - Duplicates		1	0.434

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-30406-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 08/17/2009 12:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-30406-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 08/17/2009 12:10

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY - SOLUBLE

Lab Name: TestAmerica Westfield Job Number: 480-30406-1

SDG Number:

Matrix: Solid Instrument ID: pH meter

Method: 9045C RL Date: 07/04/2006 10:56

Leach Method: DI Leach

Analyte	Wavelength/ Mass	RL (SU)	
pH		1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY - SOLUBLE

Lab Name: TestAmerica Westfield Job Number: 480-30406-1

SDG Number:

Matrix: Solid Instrument ID: pH meter

Method: 9045C XRL Date: 10/01/2008 09:54

Analyte	Wavelength/ Mass	XRL (SU)	
pH		1	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY - SOLUBLE

Lab Name: TestAmerica Westfield Job Number: 480-30406-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: SM 2580B RL Date: 09/11/2012 10:57

Leach Method: DI Leach

Analyte	Wavelength/ Mass	RL (millivolt	
Oxidation Reduction Potential		1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY - SOLUBLE

Lab Name: TestAmerica Westfield Job Number: 480-30406-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: SM 2580B XRL Date: 09/01/2006 13:08

Analyte	Wavelength/ Mass	XRL (millivolt	
Oxidation Reduction Potential		1	

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Prep Method: Distill/Ammonia

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
LCS 480-97203/1-A	12/22/2012 18:22	97203		50	50
MB 480-97203/2-A	12/22/2012 18:22	97203		50	50
480-30406-1	12/22/2012 18:22	97203		50	50
480-30406-2	12/22/2012 18:22	97203		50	50
480-30406-3	12/22/2012 18:22	97203		50	50
480-30406-4	12/22/2012 18:22	97203		50	50

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Instrument ID: LACHAT1 Method: 350.1

Start Date: 12/26/2012 07:56 End Date: 12/26/2012 08:57

Lab Sample ID	D/F	Type	Time	Analytes																			
				NH3																			
CCV 480-97353/1	1		07:56	X																			
CCB 480-97353/2	1		07:57	X																			
LCS 480-97203/1-A	1	T	07:58	X																			
MB 480-97203/2-A	1	T	07:59	X																			
ZZZZZZ			08:00																				
ZZZZZZ			08:01																				
ZZZZZZ			08:02																				
ZZZZZZ			08:03																				
ZZZZZZ			08:04																				
ZZZZZZ			08:05																				
ZZZZZZ			08:06																				
ZZZZZZ			08:07																				
CCV 480-97353/13	1		08:08	X																			
CCB 480-97353/14	1		08:09	X																			
ZZZZZZ			08:10																				
ZZZZZZ			08:11																				
ZZZZZZ			08:12																				
480-30406-1	1	Y	08:13	X																			
480-30406-2	1	Y	08:14	X																			
480-30406-3	1	Y	08:14	X																			
480-30406-4	1	Y	08:15	X																			
ZZZZZZ			08:16																				
ZZZZZZ			08:17																				
ZZZZZZ			08:18																				
CCV 480-97353/25	1		08:19	X																			
CCB 480-97353/26	1		08:20	X																			
ZZZZZZ			08:21																				
ZZZZZZ			08:22																				
ZZZZZZ			08:23																				
ZZZZZZ			08:24																				
ZZZZZZ			08:25																				
ZZZZZZ			08:26																				
ZZZZZZ			08:27																				
ZZZZZZ			08:28																				
ZZZZZZ			08:29																				
ZZZZZZ			08:30																				
CCV 480-97353/37			08:31																				
CCB 480-97353/38			08:32																				
ZZZZZZ			08:33																				
ZZZZZZ			08:34																				
ZZZZZZ			08:35																				
ZZZZZZ			08:36																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Instrument ID: LACHAT1 Method: 350.1

Start Date: 12/26/2012 07:56 End Date: 12/26/2012 08:57

Lab Sample ID	D/F	Type	Time	Analytes																			
				NH3																			
ZZZZZZ			08:37																				
ZZZZZZ			08:38																				
ZZZZZZ			08:39																				
ZZZZZZ			08:40																				
ZZZZZZ			08:41																				
ZZZZZZ			08:45																				
CCV 480-97353/49	1		08:46	X																			
CCB 480-97353/50	1		08:47	X																			
MB 480-96922/3-A	1	Y	08:48	X																			
ZZZZZZ			08:49																				
ZZZZZZ			08:50																				
ZZZZZZ			08:51																				
ZZZZZZ			08:51																				
ZZZZZZ			08:52																				
ZZZZZZ			08:53																				
ZZZZZZ			08:54																				
ZZZZZZ			08:55																				
CCV 480-97353/60	1		08:56	X																			
CCB 480-97353/61	1		08:57	X																			

Prep Types

T = Total/NA

Y = ASTM Leach

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Instrument ID: IC-2 Method: 300.0

Start Date: 12/28/2012 11:55 End Date: 12/28/2012 15:19

Lab Sample ID	D/F	Type	Time	Analytes																			
				CL-	SO4																		
CCV 480-97680/1	1		11:55	X	X																		
CCB 480-97680/2	1		12:05	X	X																		
LCS 480-97670/1-A	1	S	12:15	X	X																		
MB 480-97670/2-A	1	S	12:26	X	X																		
480-30406-1	1	S	12:36	X	X																		
480-30406-2	1	S	12:46	X																			
480-30406-3	1	S	12:56	X	X																		
480-30406-4	1	S	13:06	X	X																		
ZZZZZZ			13:16																				
ZZZZZZ			13:28																				
ZZZZZZ			13:38																				
ZZZZZZ			13:48																				
CCV 480-97680/13	1		13:58	X	X																		
CCB 480-97680/14	1		14:08	X	X																		
ZZZZZZ			14:18																				
ZZZZZZ			14:28																				
ZZZZZZ			14:39																				
ZZZZZZ			14:49																				
480-30406-2	2	S	14:59		X																		
CCV 480-97680/20	1		15:09	X	X																		
CCB 480-97680/21	1		15:19	X	X																		

Prep Types
S = Soluble

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Instrument ID: TOC10301 Method: 9060

Start Date: 12/27/2012 15:37 End Date: 12/28/2012 15:25

Lab Sample ID	D/F	Type	Time	Analytes																			
				TOC1	TOC2	TOCD																	
CCV 480-97733/1			15:37																				
CCB 480-97733/2			16:07																				
ZZZZZZ			16:35																				
ZZZZZZ			17:04																				
ZZZZZZ			17:33																				
ZZZZZZ			18:01																				
ZZZZZZ			18:30																				
ZZZZZZ			18:59																				
ZZZZZZ			19:29																				
ZZZZZZ			19:58																				
ZZZZZZ			20:27																				
ZZZZZZ			20:57																				
CCV 480-97733/13			21:26																				
CCB 480-97733/14			21:54																				
ZZZZZZ			22:23																				
ZZZZZZ			22:52																				
ZZZZZZ			23:21																				
ZZZZZZ			23:49																				
ZZZZZZ			00:18																				
ZZZZZZ			00:47																				
ZZZZZZ			01:16																				
ZZZZZZ			01:45																				
ZZZZZZ			02:14																				
ZZZZZZ			02:43																				
CCV 480-97733/25	1		03:11	X	X	X																	
CCB 480-97733/26	1		03:40	X	X	X																	
MB 480-97733/27	1	T	04:09	X	X	X																	
LCS 480-97733/28	1	T	04:38	X	X	X																	
ZZZZZZ			05:08																				
ZZZZZZ			05:38																				
ZZZZZZ			06:07																				
ZZZZZZ			06:37																				
ZZZZZZ			07:06																				
ZZZZZZ			07:36																				
ZZZZZZ			08:05																				
ZZZZZZ			08:34																				
CCV 480-97733/37	1		09:03	X	X	X																	
CCB 480-97733/38	1		09:32	X	X	X																	
ZZZZZZ			10:01																				
480-30406-1	1	Y	10:29	X	X	X																	
480-30406-2	1	Y	10:59	X	X	X																	
480-30406-3	1	Y	11:29	X	X	X																	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Instrument ID: TOC10301 Method: 9060

Start Date: 12/27/2012 15:37 End Date: 12/28/2012 15:25

Lab Sample ID	D/F	Type	Time	Analytes																			
				TOC1	TOC2	TOCD																	
480-30406-4	1	Y	11:58	X	X	X																	
MB 480-96922/1-A	1	Y	12:28	X	X	X																	
ZZZZZZ			12:57																				
ZZZZZZ			13:26																				
ZZZZZZ			13:56																				
ZZZZZZ			14:26																				
CCV 480-97733/49	1		14:55	X	X	X																	
CCB 480-97733/50	1		15:25	X	X	X																	

Prep Types

T = Total/NA

Y = ASTM Leach

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 12/19/2012 16:02 End Date: 12/19/2012 16:02

Lab Sample ID	D/F	Type	Time	Analytes																			
				% Sol	Moist																		
480-30406-1	1	T	16:02	X	X																		
480-30406-2	1	T	16:02	X	X																		
480-30406-3	1	T	16:02	X	X																		
480-30406-4	1	T	16:02	X	X																		
ZZZZZZ			16:02																				
ZZZZZZ			16:02																				
ZZZZZZ			16:02																				
ZZZZZZ			16:02																				
ZZZZZZ			16:02																				
ZZZZZZ			16:02																				
ZZZZZZ			16:02																				
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ZZZZZZ			16:02																				
ZZZZZZ			16:02																				
ZZZZZZ			16:02																				
ZZZZZZ			16:02																				

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Westfield Job No.: 480-30406-1

SDG No.:

Instrument ID: pH meter Method: 9045C

Start Date: 12/18/2012 10:44 End Date: 12/20/2012 11:26

Lab Sample ID	D/F	Type	Time	Analytes																			
				pH																			
LCS 360-97427/1-A	1	S	10:44	X																			
480-30406-1	1	S	10:45	X																			
480-30406-2	1	S	10:49	X																			
480-30406-3	1	S	10:53	X																			
480-30406-4	1	S	10:57	X																			
480-30406-4 DU	1	S	11:01	X																			
CCV 360-97429/7	1		12:45	X																			
ZZZZZZ			11:26																				
ZZZZZZ			11:26																				
ZZZZZZ			11:26																				
ZZZZZZ			11:26																				
ZZZZZZ			11:26																				
ZZZZZZ			11:26																				
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ZZZZZZ			11:26																				
ZZZZZZ			11:26																				
ZZZZZZ			11:26																				
ZZZZZZ			11:26																				

Prep Types
S = Soluble

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Westfield Job No.: 480-30406-1

SDG No.:

Instrument ID: NOEQUIP Method: SM 2580B

Start Date: 12/18/2012 10:38 End Date: 12/18/2012 11:01

Lab Sample ID	D/F	Type	Time	Analytes																			
				ORP																			
LCS 360-97428/1-A	1	S	10:38	X																			
480-30406-1	1	S	10:45	X																			
480-30406-2	1	S	10:49	X																			
480-30406-3	1	S	10:53	X																			
480-30406-4	1	S	10:57	X																			
480-30406-4 DU	1	S	11:01	X																			

Prep Types
S = Soluble

97353

Solutions:
Ammonia 350.1

WC_NH3_STD_00005, 1000mg/L	46380	Expires 12/31/12
WC_NH3_STD_00007, 1000mg/L	672534	Expires 02/28/14
WC_NH3_MS_00067 (Int STD)	1120242	Expires 01/02/13
NH3_Nitro_00054		Expires 01/14/12
NH3_Phenol_00126		Expires 12/28/12
NH3_EDTA_00098		Expires 12/28/12
NH3_Carrier_00270		Expires 12/27/12
NH3_HYPO_00270		Expires 12/27/12

LCS/CCV = 1.0ppm – STD 672534
MS/MSD = 0.2ppm – STD 1120242

Distilled LCS = 1.0ppm
Distilled MS/MSD = 0.5ppm

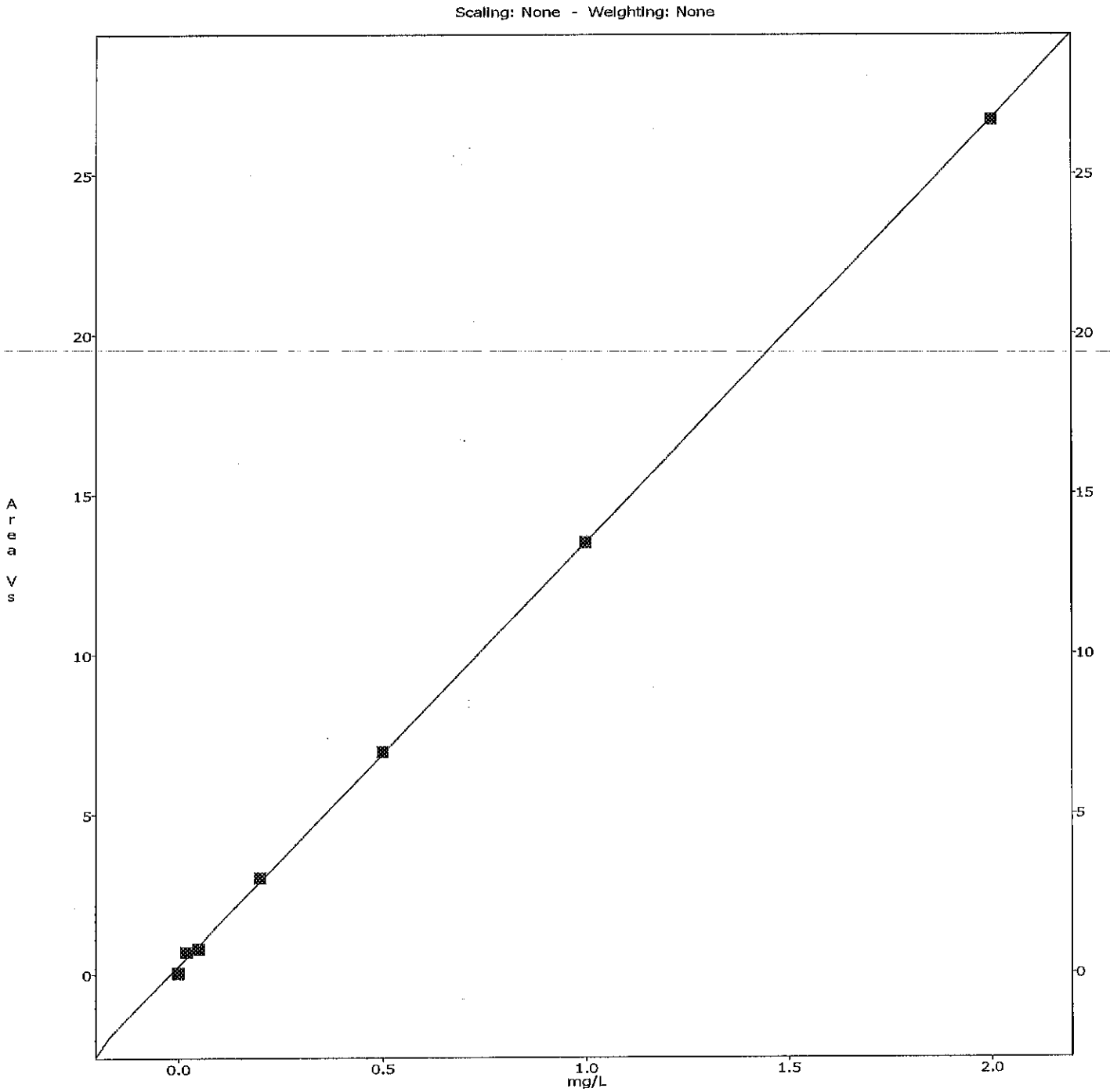
****Ammonia curve ran December 14th, 2012****
(Ammonia Standard: 46380)
(Filename: nhc12142)

Residual Chlorine check of samples ✓ KMS 12-26-12

Ammonia

Lvl	Area	mg/L	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 1st Poly
1	26720436	2.00	26720436					0.0	0.0	0.1
2	13507431	1.00	13507431					0.0	0.0	0.0
3	6964404	0.50	6964404					0.0	0.0	-1.2
4	3027751	0.20	3027751					0.0	0.0	-4.4
5	797357	0.05	797357					0.0	0.0	19.1
6	702822	0.02	702822					0.0	0.0	-66.5
7	50982	0.00	50982					0.0	0.0	

1st Order Poly
Conc = 7.549e-008 Area - 1.976e-002
r = 0.9999



Printed: Wednesday, December 26, 2012 - 09:11 AM

Test America-Buffalo
OPERATOR: KMS
ACQ. TIME: Dec 26, 2012 7:56:37
DATA FILENAME: C:\OMNION\DATA\NH12262A.FDT
METHOD FILENAME:

Method - Ch. 2 (INACTIVE)

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 1 to 30

Cup	Sample ID	Sampling Date	Sampling Time	# of Reps	Ammonia (mg/L)	
1	CCV	26 Dec 2012	07:56:40	1	1.0128	101%
2	CCB	26 Dec 2012	07:57:38	1	-0.0141	<0.02
3	lcs 480-97203/1-a	26 Dec 2012	07:58:37	1	0.9414	94%
4	mb 480-97203/2-a	26 Dec 2012	07:59:35	1	0.0364	<0.2
5	480-30380-c-2-d	26 Dec 2012	08:00:34	1	1.2702	
6	480-30488-l-1-b	26 Dec 2012	08:01:32	1	6.7340	reject
7	480-30499-d-1-c	26 Dec 2012	08:02:29	1	0.1254	
8	480-30499-d-2-b	26 Dec 2012	08:03:27	1	0.3339	
9	480-30499-d-3-b	26 Dec 2012	08:04:24	1	0.6556	
10	480-30499-d-4-b	26 Dec 2012	08:05:21	1	0.7674	
11	480-30510-e-1-b	26 Dec 2012	08:06:19	1	1.8104	
12	480-30510-e-1-c du	26 Dec 2012	08:07:16	1	1.7225	
13	CCV	26 Dec 2012	08:08:14	1	1.0119	101%
14	CCB	26 Dec 2012	08:09:10	1	-0.0198	<0.02
15	480-30534-d-2-c	26 Dec 2012	08:10:06	1	0.0773	
16	480-30630-e-1-a	26 Dec 2012	08:11:05	1	0.1058	
17	480-30630-e-1-b ms	26 Dec 2012	08:12:03	1	0.5741	
18	480-30406-c-1-e	26 Dec 2012	08:13:02	1	0.7174	
19	480-30406-c-2-e	26 Dec 2012	08:14:00	1	1.1450	
20	480-30406-e-3-c	26 Dec 2012	08:14:58	1	0.8825	
21	480-30406-e-4-c	26 Dec 2012	08:15:57	1	1.7658	
22	480-30537-e-1-d	26 Dec 2012	08:16:55	1	0.0638	
23	480-30537-d-2-d	26 Dec 2012	08:17:52	1	0.0551	
24	480-30537-i-3-d	26 Dec 2012	08:18:50	1	0.5688	
25	CCV	26 Dec 2012	08:19:47	1	1.0021	100%
26	CCB	26 Dec 2012	08:20:44	1	-0.0198	<0.02
27	lcs 480-97205/1-a	26 Dec 2012	08:21:42	1	1.0265	103%
28	mb 480-97205/2-a	26 Dec 2012	08:22:39	1	0.0194	<0.02
29	440-33015-k-1-a	26 Dec 2012	08:23:37	1	3.5063	reject
30	440-33015-k-3-a	26 Dec 2012	08:24:33	1	2.8959	

Test America-Buffalo
OPERATOR: KMS
ACQ. TIME: Dec 26, 2012 7:56:37
DATA FILENAME: C:\OMNION\DATA\NH12262A.FDT
METHOD FILENAME:

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 31 to 70

Cup	Sample ID	Sampling Date	Sampling Time	# of Reps	Ammonia (mg/L)	
31	480-30618-o-1-b	26 Dec 2012	08:25:31	1	1.2750	
32	480-30061-v-1-e	26 Dec 2012	08:26:30	1	2.1223	reged
33	480-30088-d-2-e	26 Dec 2012	08:27:28	1	3.8630	
34	480-30088-d-3-a	26 Dec 2012	08:28:27	1	2.4800	
35	480-30696-a-1-a	26 Dec 2012	08:29:25	1	0.0388	
36	480-30696-a-1-b du	26 Dec 2012	08:30:23	1	0.9626	reged missed cup, rerun
37	CCV	26 Dec 2012	08:31:22	1	1.0081	101%
38	CCB	26 Dec 2012	08:32:20	1	-0.0130	<0.02
39	480-30568-c-1-a	26 Dec 2012	08:33:18	1	1.1943	
40	480-30693-b-1-a	26 Dec 2012	08:34:15	1	0.4471	
41	480-30696-a-3-a	26 Dec 2012	08:35:12	1	0.2793	
42	480-30696-a-4-a	26 Dec 2012	08:36:10	1	8.4582	reged
43	480-30696-a-5-a	26 Dec 2012	08:37:07	1	1.1599	
44	480-30696-a-5-b ms	26 Dec 2012	08:38:04	1	1.4797	
45	480-30696-a-6-a	26 Dec 2012	08:39:02	1	0.2772	
46	480-30698-f-1-a	26 Dec 2012	08:40:00	1	0.7542	
47	480-30699-c-1-a	26 Dec 2012	08:41:00	1	0.9781	
48	480-30699-c-2-a	26 Dec 2012	08:45:10	1	1.0678	
49	CCV	26 Dec 2012	08:46:09	1	1.0157	102%
50	CCB	26 Dec 2012	08:47:07	1	-0.0109	<0.02
51	1124064	26 Dec 2012	08:48:05	1	-0.0035	<0.02
52	480-30488-l-1-b^10	26 Dec 2012	08:49:04	1	0.8867	500uL 5mL
53	440-33015-k-1-a^5	26 Dec 2012	08:50:02	1	0.9041	2mL 5mL
54	440-33015-k-3-a^5	26 Dec 2012	08:51:01	1	0.6908	
55	480-30061-v-1-e^2	26 Dec 2012	08:51:59	1	1.0738	2.5mL 5mL
56	480-30088-d-2-e^5	26 Dec 2012	08:52:56	1	0.8894	2mL 5mL
57	480-30088-d-3-a^5	26 Dec 2012	08:53:54	1	0.5780	
58	480-30696-a-1-b du	26 Dec 2012	08:54:51	1	0.0263	
59	480-30696-a-4-a^10	26 Dec 2012	08:55:48	1	1.3165	500uL 5mL
61	CCV	26 Dec 2012	08:56:48	1	1.0126	101%
62	CCB	26 Dec 2012	08:57:47	1	-0.0104	<0.02

Test America-Buffalo
OPERATOR: KMS
ACQ. TIME: Dec 26, 2012 7:56:37
DATA FILENAME: C:\OMNION\DATA\NH12262A.FDT
METHOD FILENAME:

Method - Ch. 2 (INACTIVE)

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 1 to 30

Cup	Sample ID	Sampling Date	Sampling Time	# of Reps	Ammonia (uv-s)
1	CCV	26 Dec 2012	07:56:40	1	13677389.0000
2	CCB	26 Dec 2012	07:57:38	1	74931.0000
3	lcs 480-97203/1-a	26 Dec 2012	07:58:37	1	12732250.0000
4	mb 480-97203/2-a	26 Dec 2012	07:59:35	1	743565.0000
5	480-30380-c-2-d	26 Dec 2012	08:00:34	1	17087796.0000
6	480-30488-l-1-b	26 Dec 2012	08:01:32	1	39462736.0000
7	480-30499-d-1-c	26 Dec 2012	08:02:29	1	1923008.0000
8	480-30499-d-2-b	26 Dec 2012	08:03:27	1	4685184.0000
9	480-30499-d-3-b	26 Dec 2012	08:04:24	1	8946163.0000
10	480-30499-d-4-b	26 Dec 2012	08:05:21	1	10427367.0000
11	480-30510-e-1-b	26 Dec 2012	08:06:19	1	24242368.0000
12	480-30510-e-1-c du	26 Dec 2012	08:07:16	1	23078938.0000
13	CCV	26 Dec 2012	08:08:14	1	13665831.0000
14	CCB	26 Dec 2012	08:09:10	1	0.0000
15	480-30534-d-2-c	26 Dec 2012	08:10:06	1	1285069.0000
16	480-30630-e-1-a	26 Dec 2012	08:11:05	1	1662682.0000
17	480-30630-e-1-b ms	26 Dec 2012	08:12:03	1	7866970.0000
18	480-30406-c-1-e	26 Dec 2012	08:13:02	1	9765031.0000
19	480-30406-c-2-e	26 Dec 2012	08:14:00	1	15428800.0000
20	480-30406-e-3-c	26 Dec 2012	08:14:58	1	11951155.0000
21	480-30406-e-4-c	26 Dec 2012	08:15:57	1	23651610.0000
22	480-30537-e-1-d	26 Dec 2012	08:16:55	1	1107379.0000
23	480-30537-d-2-d	26 Dec 2012	08:17:52	1	991808.0000
24	480-30537-i-3-d	26 Dec 2012	08:18:50	1	7796314.0000
25	CCV	26 Dec 2012	08:19:47	1	13535450.0000
26	CCB	26 Dec 2012	08:20:44	1	0.0000
27	lcs 480-97205/1-a	26 Dec 2012	08:21:42	1	13859738.0000
28	mb 480-97205/2-a	26 Dec 2012	08:22:39	1	518227.0000
29	440-33015-k-1-a	26 Dec 2012	08:23:37	1	46707508.0000
30	440-33015-k-3-a	26 Dec 2012	08:24:33	1	38622004.0000

Test America-Buffalo
OPERATOR: KMS
ACQ. TIME: Dec 26, 2012 7:56:37
DATA FILENAME: C:\OMNION\DATA\NH12262A.FDT
METHOD FILENAME:

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 31 to 70

Cup	Sample ID	Sampling Date	Sampling Time	# of Reps	Ammonia (uv-s)
31	480-30618-o-1-b	26 Dec 2012	08:25:31	1	17151310.0000
32	480-30061-v-1-e	26 Dec 2012	08:26:30	1	28374848.0000
33	480-30088-d-2-e	26 Dec 2012	08:27:28	1	51432384.0000
34	480-30088-d-3-a	26 Dec 2012	08:28:27	1	33112462.0000
35	480-30696-a-1-a	26 Dec 2012	08:29:25	1	775347.0000
36	480-30696-a-1-b du	26 Dec 2012	08:30:23	1	13013299.0000
37	CCV	26 Dec 2012	08:31:22	1	13615463.0000
38	CCB	26 Dec 2012	08:32:20	1	89696.0000
39	480-30568-c-1-a	26 Dec 2012	08:33:18	1	16081434.0000
40	480-30693-b-1-a	26 Dec 2012	08:34:15	1	6184615.0000
41	480-30696-a-3-a	26 Dec 2012	08:35:12	1	3961280.0000
42	480-30696-a-4-a	26 Dec 2012	08:36:10	1	12302392.0000
43	480-30696-a-5-a	26 Dec 2012	08:37:07	1	15626304.0000
44	480-30696-a-5-b ms	26 Dec 2012	08:38:04	1	19861748.0000
45	480-30696-a-6-a	26 Dec 2012	08:39:02	1	3934208.0000
46	480-30698-f-1-a	26 Dec 2012	08:40:00	1	10252826.0000
47	480-30699-c-1-a	26 Dec 2012	08:41:00	1	13217831.0000
48	480-30699-c-2-a	26 Dec 2012	08:45:10	1	14405811.0000
49	CCV	26 Dec 2012	08:46:09	1	13715879.0000
50	CCB	26 Dec 2012	08:47:07	1	117830.0000
51	1124064	26 Dec 2012	08:48:05	1	215501.0000
52	480-30488-l-1-b^10	26 Dec 2012	08:49:04	1	12007706.0000
53	440-33015-k-1-a^5	26 Dec 2012	08:50:02	1	12237274.0000
54	440-33015-k-3-a^5	26 Dec 2012	08:51:01	1	9412442.0000
55	480-30061-v-1-e^2	26 Dec 2012	08:51:59	1	14486221.0000
56	480-30088-d-2-e^5	26 Dec 2012	08:52:56	1	12043571.0000
57	480-30088-d-3-a^5	26 Dec 2012	08:53:54	1	7918772.0000
58	480-30696-a-1-b du	26 Dec 2012	08:54:51	1	609818.0000
59	480-30696-a-4-a^10	26 Dec 2012	08:55:48	1	17701184.0000
61	CCV	26 Dec 2012	08:56:48	1	13674829.0000
62	CCB	26 Dec 2012	08:57:47	1	123526.0000

TestAmerica Buffalo
Ammonia Distillation

Logbook# A12-03-15
NCM: 88026, 88028

Distillation Date	Analyst	Job #	Sample I.D.	Dist. Flask #	Sample Vol/Wt	Comments
12-22-12	KMS	LCS	1.0ppm	1	50mL	+50uL NH_3 Std
		MB	Blank	2		
		30380	C-2	3		
		30488	L-1	4		
		30499	D-1	5		
			D-2	6		
			D-3	7	10mL 50mL	5x
			D-4	8		5x
		30510	E-1	9	10mL 50mL	5x
			E-1DU	10		5x
		30534	D-2	11	50mL	
		30630	E-1	12		
			E-1MS	13		+25uL NH_3 Std
		30406	C-1-C	14		
			C-2-C	15		
			E-3-A	16		
			E-4-A	17		
		30537	E-1-B	18		
			D-2-B	19		
			T-3-B	20		
		LCS	1.0ppm	21		+50uL NH_3 Std
		MB	Blank	22		
		440-33015	K-1	23		
			K-3	24		
		30618	O-1	25	1mL 50mL	50x
		30061	V-1	26		
		30088	D-2	27	50mL	
			D-3	28		
		30696	A-1	29		
			A-1DU	30		

Reviewed By KMS 12-22-12 Batch # s 97203, 97205

Solutions: 672534, 866314, 893101

EppendorfS: 401645, 418728, 405552

TestAmerica Buffalo
Ammonia Distillation

Logbook# A12-03-15

Distillation Date	Analyst	Job #	Sample I.D.	Dist. Flask #	Sample Vol/Wt	Comments
12-22-12	KMS	30568	C-1	31	50.0 50mL	1000X
		30693	B-1	32	↓	1000X
		30696	A-3	33	50mL	
			A-4	34		
			A-5	35		
			A-5mS	36		+2 Sol. NH_3, SD
			A-6	37		
		30698	F-1	38	200.0 50mL	250X
		30699	C-1	39	200.0 50mL	250X
		↓	C-2	40	50mL	

12-22-12
KMS

Reviewed By _____ Batch # s _____

Solutions: See page 32

EppendorfS: _____

Historical Data Summary Report

For Batch 97353

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-30380-C-2-D	EFFLUENT (grab)	350.1	Ammonia (as N)	Total/NA	mg/L as	8	1.0	1.3	☐	0.662 - 3.713	☐	1.04 - 3.48
480-30488-L-1-B	MHOL1	350.1	Ammonia as N	Total/NA	mg/L	8	10.0	8.9	☐	0 - 81.797	☐	0.304 - 62.4
480-30510-E-1-B	WA-121812-01H	350.1	Ammonia as N	Total/NA	mg/L	8	1.0	9.1	☐	7.579 - 20.496	☐	8.24 - 20.88
480-30534-D-2-C	OUTFALL 111	350.1	Ammonia	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.178	☐	0 - 0.144
480-30537-D-2-D	SED BASIN #4	350.1	Ammonia (as N)	ASTM Leach	mg/Kg	7	1.0	1.1	☐	0 - 8.916	☐	0.76 - 8.64
480-30537-E-1-D	SED BASIN #3	350.1	Ammonia (as N)	ASTM Leach	mg/Kg	7	1.0	1.3	☐	0 - 12.624	☐	0.552 - 10.44
480-30537-I-3-D	WEST BA SED	350.1	Ammonia (as N)	ASTM Leach	mg/Kg	7	1.0	11.4	☐	0 - 63.179	☐	0.328 - 63.6
480-30568-C-1-A	LST01	350.1	Ammonia, distilled	Total/NA	mg/L	8	1.0	1190	☐	762.578 - 1807.422	☐	912 - 2040
480-30630-E-1-A	MLLA3	350.1	Ammonia	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.594	☐	0 - 0.576
480-30693-B-1-A	Leachate	350.1	Ammonia, distilled	Total/NA	mg/L	8	1.0	447	☐	0 - 1539.651	☐	92 - 1536
480-30696-A-1-A	WMH01	350.1	Ammonia (as N)	Total/NA	mg/L as	5	1.0	ND	☐	0 - 0.435	☐	0 - 0.336
480-30696-A-3-A	WMH03	350.1	Ammonia (as N)	Total/NA	mg/L as	5	1.0	0.28	☐	0 - 3.906	☐	0 - 2.88
480-30696-A-4-A	WMH05	350.1	Ammonia (as N)	Total/NA	mg/L as	5	10.0	13.2	☐	0.279 - 32.241	☐	7.12 - 27.96
480-30696-A-5-A	WMH07	350.1	Ammonia (as N)	Total/NA	mg/L as	8	1.0	1.2 dc	☑	0 - 1.083	☑	0 - 0.804 Leachate
480-30696-A-6-A	WMH09	350.1	Ammonia (as N)	Total/NA	mg/L as	8	1.0	0.28	☐	0 - 34.307	☐	0.248 - 34.2
480-30698-F-1-A	LEACHA	350.1	Ammonia (as N)	Total/NA	mg/L as	8	1.0	1890 dc	☑	0 - 859.864	☑	1.184 - 722.4 Leachate
480-30699-C-1-A	WMH06	350.1	Ammonia (as N)	Total/NA	mg/L as	5	1.0	2450 dc	☑	0 - 1074.128	☑	1.76 - 914.4 Leachate

Distill Ammonia

WC_Available/Received @ 12/22/2012 9:51:59 AM

Login / PM	Lab Sample ID / Sample Matrix	Method Description / Status	Batch	Rush	Basis Description / Method	HT Expires / Prep Chain	Date Sampled / SRF	2nd Level Due / Assigned To	Result History / Job Number	Alt Sample Matrix
33015 JB	440-33015-1 Water	Nitrogen, Ammonia Wait	No	No	Total/NA 350.1	01/14/13 23:59 (Distill/Ammonia)	12/17/12 13:46	12/26/2012	440-J33015-1	Water
33015 JB	440-33015-3 Water	Nitrogen, Ammonia Wait	No	No	Total/NA 350.1	01/14/13 23:59 (Distill/Ammonia)	12/17/12 15:07	12/26/2012	440-J33015-1	Water
30380 LES	480-30380-2 Water	Nitrogen, Ammonia Ready	No	No	Total/NA 350.1	01/14/13 23:59 (Distill/Ammonia)	12/17/12 10:45	12/27/2012 RE due to dup failure	1.90000,1.80000,2.90000,1.90000,2.50000,2. 480-J30380-1	Leachate
30406 BCM	480-30406-1 Solid	Nitrogen, Ammonia Ready	No	No	ASTM Leach 350.1	01/14/13 23:59 (D3987-85 -	12/17/12 14:30	12/28/2012	480-J30406-1	Solid
MCP/Level 4 stand alone(12/18/12); L4Reviewed: ~Sub methods:2580B, 7199, 9045C, NDMA_CIMS_IDA.~										
30406 BCM	480-30406-2 Solid	Nitrogen, Ammonia Ready	No	No	ASTM Leach 350.1	01/14/13 23:59 (D3987-85 -	12/17/12 15:00	12/28/2012	480-J30406-1	Solid
MCP/Level 4 stand alone(12/18/12); L4Reviewed: ~Sub methods:2580B, 7199, 9045C, NDMA_CIMS_IDA.~										
30406 BCM	480-30406-3 Solid	Nitrogen, Ammonia Ready	No	No	ASTM Leach 350.1	01/14/13 23:59 (D3987-85 -	12/17/12 12:15	12/28/2012	480-J30406-1	Solid
MCP/Level 4 stand alone(12/18/12); L4Reviewed: ~Sub methods:2580B, 7199, 9045C, NDMA_CIMS_IDA.~										
30406 BCM	480-30406-4 Solid	Nitrogen, Ammonia Ready	No	No	ASTM Leach 350.1	01/14/13 23:59 (D3987-85 -	12/17/12 12:45	12/28/2012	480-J30406-1	Solid
MCP/Level 4 stand alone(12/18/12); L4Reviewed: ~Sub methods:2580B, 7199, 9045C, NDMA_CIMS_IDA.~										
30488 LES	480-30488-1 Water	Nitrogen, Ammonia Ready	No	No	Total/NA 350.1	01/15/13 23:59 (Distill/Ammonia)	12/18/12 07:45	01/02/2013	43.30000,52.00000,1.10000,30.00000,20.800 480-J30488-1	Leachate
30499 PG	480-30499-1 Water	Nitrogen, Ammonia Ready	No	No	Total/NA 350.1	01/15/13 23:59 (Distill/Ammonia)	12/18/12 13:15	01/02/2013	480-J30499-1	Water
30499 PG	480-30499-2 Water	Nitrogen, Ammonia Ready	No	No	Total/NA 350.1	01/15/13 23:59 (Distill/Ammonia)	12/18/12 13:26	01/02/2013	480-J30499-1	Water
30499 PG	480-30499-3 Water	Nitrogen, Ammonia Ready	No	No	Total/NA 350.1	01/15/13 23:59 (Distill/Ammonia)	12/18/12 14:41	01/02/2013	480-J30499-1	Water
30499 PG	480-30499-4 Water	Nitrogen, Ammonia Ready	No	No	Total/NA 350.1	01/15/13 23:59 (Distill/Ammonia)	12/18/12 13:53	01/02/2013	480-J30499-1	Water
30510	480-30510-1 Water	Nitrogen, Ammonia Ready	No	No	Total/NA 350.1	01/15/13 23:59 (Distill/Ammonia)	12/18/12 10:00	01/02/2013 MAC01	13.70000,14.10000,17.40000,16.50000,13.30 480-J30510-1	Water
30534 SH	480-30534-2 Water	Nitrogen, Ammonia Ready	No	Yes	Total/NA 350.1	01/16/13 23:59 (Distill/Ammonia)	12/19/12 12:30	12/27/2012	0.00000,0.00000,0.12000,0.00000,0.11000,0. 480-J30534-1	Water

03/12/2013

WC_Available/Received @ 12/22/2012 9:51:59 AM

Login / PM	Lab Sample ID / Sample Matrix	Method Description / Status	Batch	Rush	Basis Description / Method	HT Expires / Prep Chain	Date Sampled / SRF	2nd Level Due / Assigned To	Result History / Job Number	Alt Sample Matrix
30537 RV	480-30537-1 Solid	Nitrogen, Ammonia Ready	No	No	ASTM Leach 350.1	01/16/13 23:59 (D3987-85 -	12/19/12 10:20	01/02/2013	8.70000,3.30000,7.50000,1.70000,0.90000,1. 480-J30537-1	Solid
30537 RV	480-30537-2 Solid	Nitrogen, Ammonia Ready	No	No	ASTM Leach 350.1	01/16/13 23:59 (D3987-85 -	12/19/12 11:25	01/02/2013	3.60000,2.90000,7.20000,4.30000,3.30000,0. 480-J30537-1	Solid
30537 RV	480-30537-3 Solid	Nitrogen, Ammonia Ready	No	No	ASTM Leach 350.1	01/16/13 23:59 (D3987-85 -	12/19/12 10:55	01/02/2013	53.00000,1.50000,5.40000,7.30000,0.65000,0 480-J30537-1	Solid
30568 LES	480-30568-1 Water	Nitrogen, Ammonia Wait	No	No	Total/NA 350.1	01/16/13 23:59 (Distill/Ammonia)	12/19/12 08:20	01/09/2013	1150.00000,1230.00000,1700.00000,1200.00 480-J30568-1	Leachate
30618 BF	480-30618-1 Water	Nitrogen, Ammonia Ready	No	No	Total/NA 350.1	01/15/13 23:59 (Distill/Ammonia)	12/18/12 15:30	01/03/2013 frack	480-J30618-1	Water
30630 RV	480-30630-1 Water	Nitrogen, Ammonia Wait	No	No	Total/NA 350.1	01/17/13 23:59 (Distill/Ammonia)	12/20/12 09:55	01/09/2013	0.21000,0.00000,0.20000,0.00000,0.00000,0. 480-J30630-1	Ground Water
30693 LES	480-30693-1 Water	Nitrogen, Ammonia Wait	No	No	Total/NA 350.1	01/17/13 23:59 (Distill/Ammonia)	12/20/12 10:59	01/04/2013	1280.00000,518.00000,325.00000,129.00000, 480-J30693-1	Leachate
30696 LES	480-30696-1 Water	Nitrogen, Ammonia Wait	No	No	Total/NA 350.1	01/17/13 23:59 (Distill/Ammonia)	12/20/12 12:00	01/04/2013	0.00000 480-J30696-1	Leachate
30696 LES	480-30696-2 Water	Nitrogen, Ammonia Wait	No	No	Total/NA 350.1	01/17/13 23:59 (Distill/Ammonia)	12/20/12 14:20	01/04/2013	0.00000 480-J30696-1	Leachate
30696 LES	480-30696-3 Water	Nitrogen, Ammonia Wait	No	No	Total/NA 350.1	01/17/13 23:59 (Distill/Ammonia)	12/20/12 15:40	01/04/2013	2.40000 480-J30696-1	Leachate
30696 LES	480-30696-4 Water	Nitrogen, Ammonia Wait	No	No	Total/NA 350.1	01/17/13 23:59 (Distill/Ammonia)	12/20/12 16:10	01/04/2013	18.10000 480-J30696-1	Leachate
30696 LES	480-30696-5 Water	Nitrogen, Ammonia Wait	No	No	Total/NA 350.1	01/17/13 23:59 (Distill/Ammonia)	12/20/12 15:20	01/04/2013	0.67000,0.56000,0.40000,0.00000,0.00000 480-J30696-1	Leachate
30696 LES	480-30696-6 Water	Nitrogen, Ammonia Wait	No	No	Total/NA 350.1	01/17/13 23:59 (Distill/Ammonia)	12/20/12 14:40	01/04/2013	0.37000,0.52000,0.31000,0.96000,1.20000 480-J30696-1	Leachate
30698 LES	480-30698-1 Water	Nitrogen, Ammonia Wait	No	No	Total/NA 350.1	01/17/13 23:59 (Distill/Ammonia)	12/20/12 13:50	01/04/2013	388.00000,234.00000,408.00000,16.70000,32 480-J30698-1	Leachate
30699 LES	480-30699-1 Water	Nitrogen, Ammonia Wait	No	No	Total/NA 350.1	01/17/13 23:59 (Distill/Ammonia)	12/20/12 16:30	01/04/2013	2.20000 480-J30699-1	Leachate
30699 LES	480-30699-2 Water	Nitrogen, Ammonia Wait	No	No	Total/NA 350.1	01/17/13 23:59 (Distill/Ammonia)	12/20/12 00:00	01/04/2013	480-J30699-1	Water

30061-1 a-109 TKN = 45.7 107
30088-2 a-4.2 TKN = 1.2 4.4
30088-3 a-2.0 TKN = 1.2 2.9

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03/12/2013

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\122112-2_cal_002.d		
Lims ID:	STD1	Client ID:	
Inject. Date:	21-Dec-2012 12:13:32	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	#: 002 Name: 480-0017784-002		
Misc. Info.:			
Operator:	TCHROM	Instrument ID:	IC-2
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	97092	Lims Sample ID:	2
Sublist:	chrom-IC2-300*sub2		
Detector:	Ch-A-122112-2_cal		

Method:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\IC2-300.m		
Last Update:	21-Dec-2012 13:47:45	Calib Date:	21-Dec-2012 13:04:11
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\122112-2_cal_007.d		
Limit Group:	MB 300 ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK008		

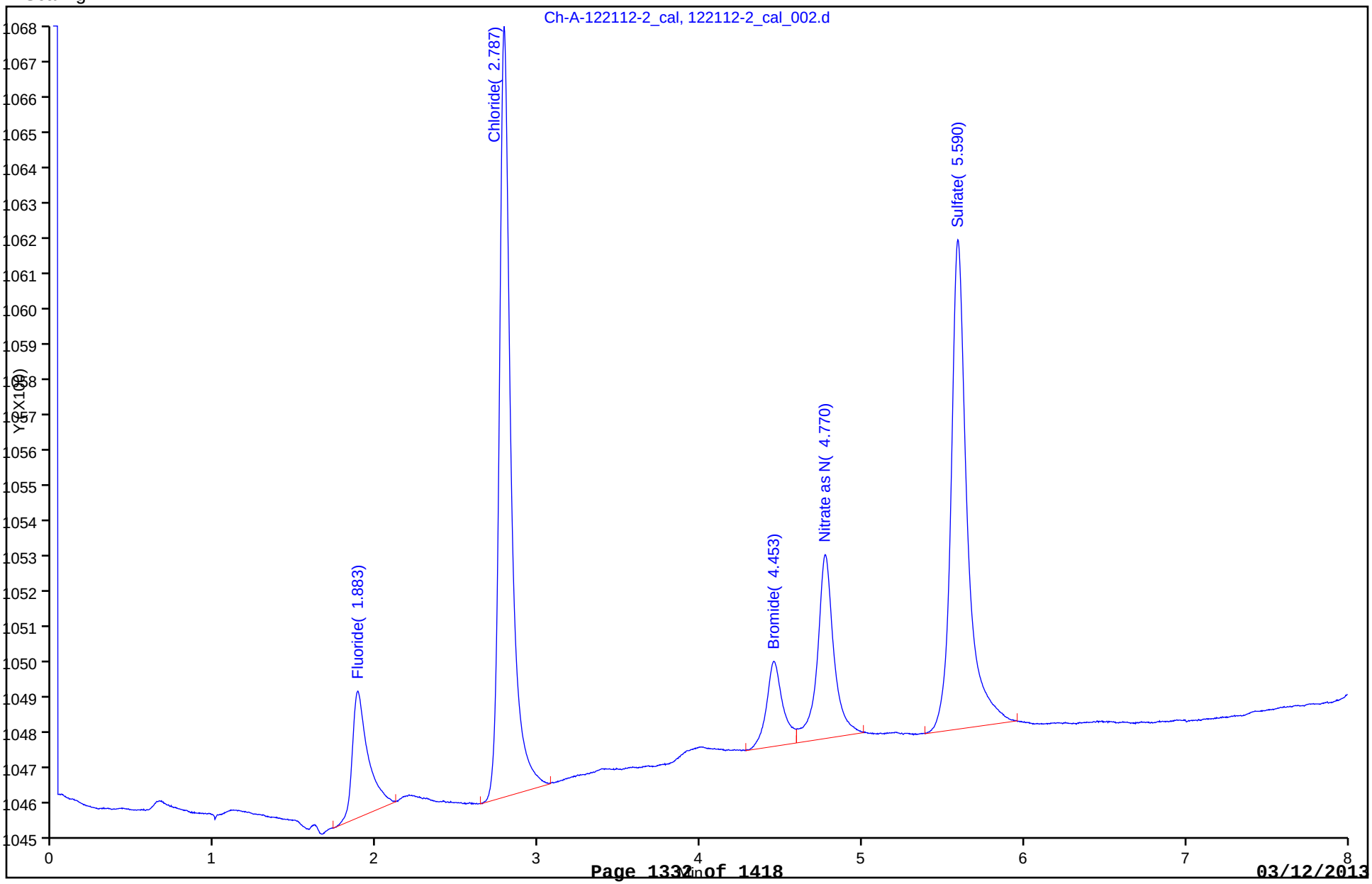
First Level Reviewer: cudneyk Date: 21-Dec-2012 12:28:17

RT	EXP RT	DLT RT	Response	On-Col Amt ng/uL	Flags
4 Fluoride					
1.883	1.867	0.016	2339	0.0226	
2 Chloride					
2.787	2.753	0.034	10480	0.4949	
1 Bromide					
4.453	4.307	0.146	1626	0.2827	
5 Nitrate as N					
4.770	4.587	0.183	3564	0.0961	
3 Sulfate					
5.590	5.360	0.230	9263	0.3711	

Report Date: 21-Dec-2012 13:47:45 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\122112-2_cal_002.d		
Injection Date:	21-Dec-2012 12:13:32	Limit Group:	MB 300 ICAL
Client ID:		Instrument ID:	IC-2
Lims Batch ID:	97092	Lims Sample ID:	2
Operator ID:	TCHROM	Injection Vol:	1.0 ul
Column Type:		Column Dia:	
Y Scaling:			



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\122112-2_cal_003.d		
Lims ID:	STD2	Client ID:	
Inject. Date:	21-Dec-2012 12:23:40	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	#: 003 Name: 480-0017784-003		
Misc. Info.:			
Operator:	TCHROM	Instrument ID:	IC-2
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	97092	Lims Sample ID:	3
Sublist:	chrom-IC2-300*sub2		
Detector:	Ch-A-122112-2_cal		

Method:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\IC2-300.m		
Last Update:	21-Dec-2012 13:47:45	Calib Date:	21-Dec-2012 13:04:11
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\122112-2_cal_007.d		
Limit Group:	MB 300 ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK008		

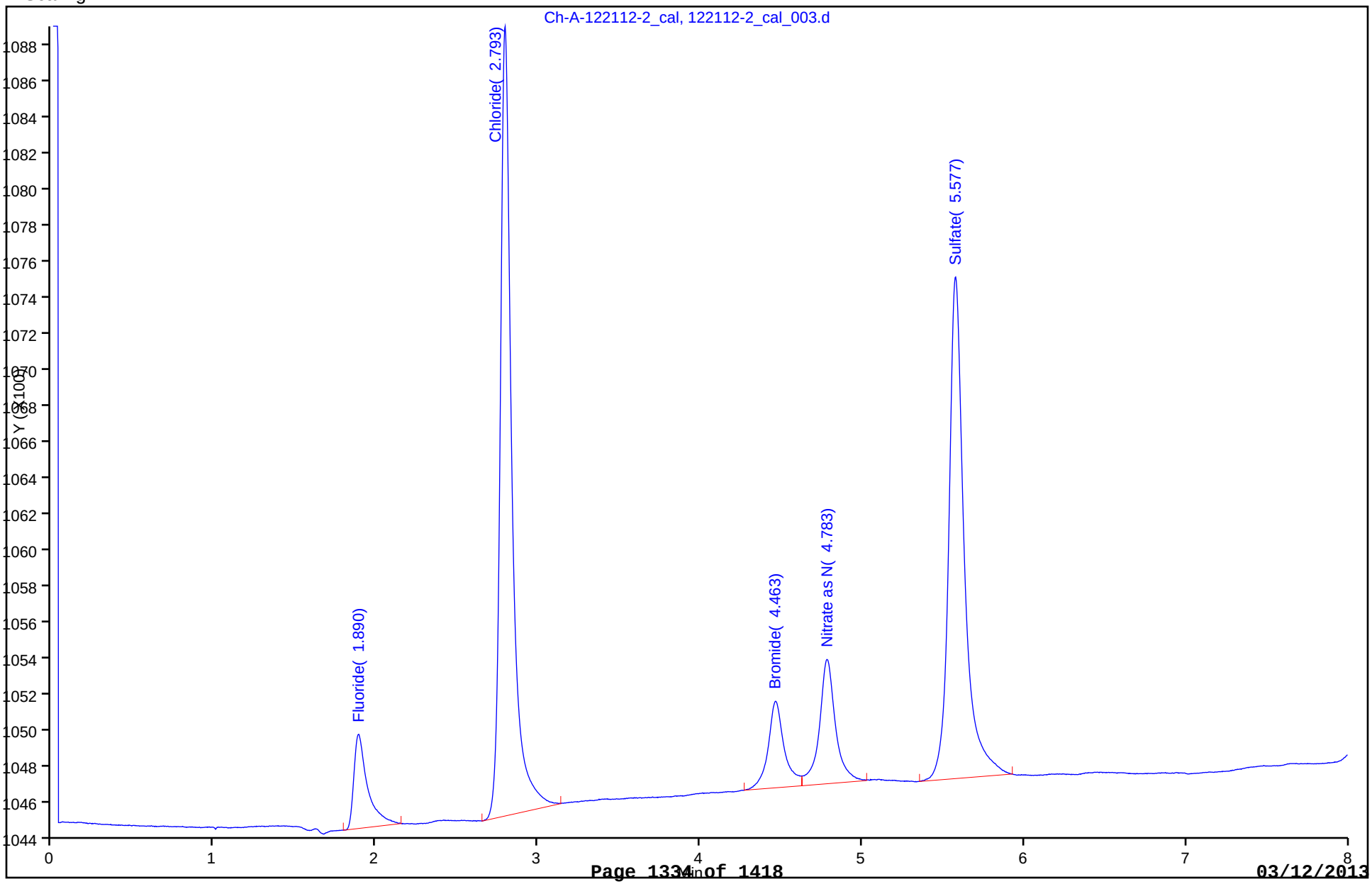
First Level Reviewer: clarkk Date: 21-Dec-2012 13:47:04

RT	EXP RT	DLT RT	Response	On-Col Amt ng/uL	Flags
4 Fluoride					
1.890	1.867	0.023	2985	0.0410	
2 Chloride					
2.793	2.753	0.040	21140	0.9256	
1 Bromide					
4.463	4.307	0.156	3232	0.4361	
5 Nitrate as N					
4.783	4.587	0.196	4655	0.1132	
3 Sulfate					
5.577	5.360	0.217	17991	0.8421	

Report Date: 21-Dec-2012 13:47:45 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\122112-2_cal_003.d		
Injection Date:	21-Dec-2012 12:23:40	Limit Group:	MB 300 ICAL
Client ID:		Instrument ID:	IC-2
Lims Batch ID:	97092	Lims Sample ID:	3
Operator ID:	TCHROM	Injection Vol:	1.0 ul
Column Type:		Column Dia:	
Y Scaling:			



TestAmerica Buffalo
IC, ICal Standard Report

Data File:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\122112-2_cal_004.d		
Lims ID:	STD3	Client ID:	
Inject. Date:	21-Dec-2012 12:33:48	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	#: 004 Name: 480-0017784-004		
Misc. Info.:			
Operator:	TCHROM	Instrument ID:	IC-2
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	97092	Lims Sample ID:	4
Sublist:	chrom-IC2-300*sub2		
Detector:	Ch-A-122112-2_cal		

Method:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\IC2-300.m		
Last Update:	21-Dec-2012 13:47:46	Calib Date:	21-Dec-2012 13:04:11
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\122112-2_cal_007.d		
Limit Group:	MB 300 ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK008		

Start Cal Date: 21-Dec-2012 12:03:24
End Cal Date: 21-Dec-2012 13:04:11

Compound	Standard RRF/Amount	DLT RT	Ccal Amount	Ccal RF	Min. RRF	%D	Max. %D
4 Fluoride	0.5000	0.020	0.4737	36236	0.000	-5.3	10.0
2 Chloride	5.00	0.040	4.98	24317	0.000	-0.3	10.0
1 Bromide	2.00	0.146	1.94	9475.50	0.000	-3.1	10.0
5 Nitrate as N	0.5000	0.180	0.4695	54770	0.000	-6.1	10.0
3 Sulfate	5.00	0.187	5.02	19099	0.000	0.5	10.0

TestAmerica Buffalo
Target Compound Quantitation Report

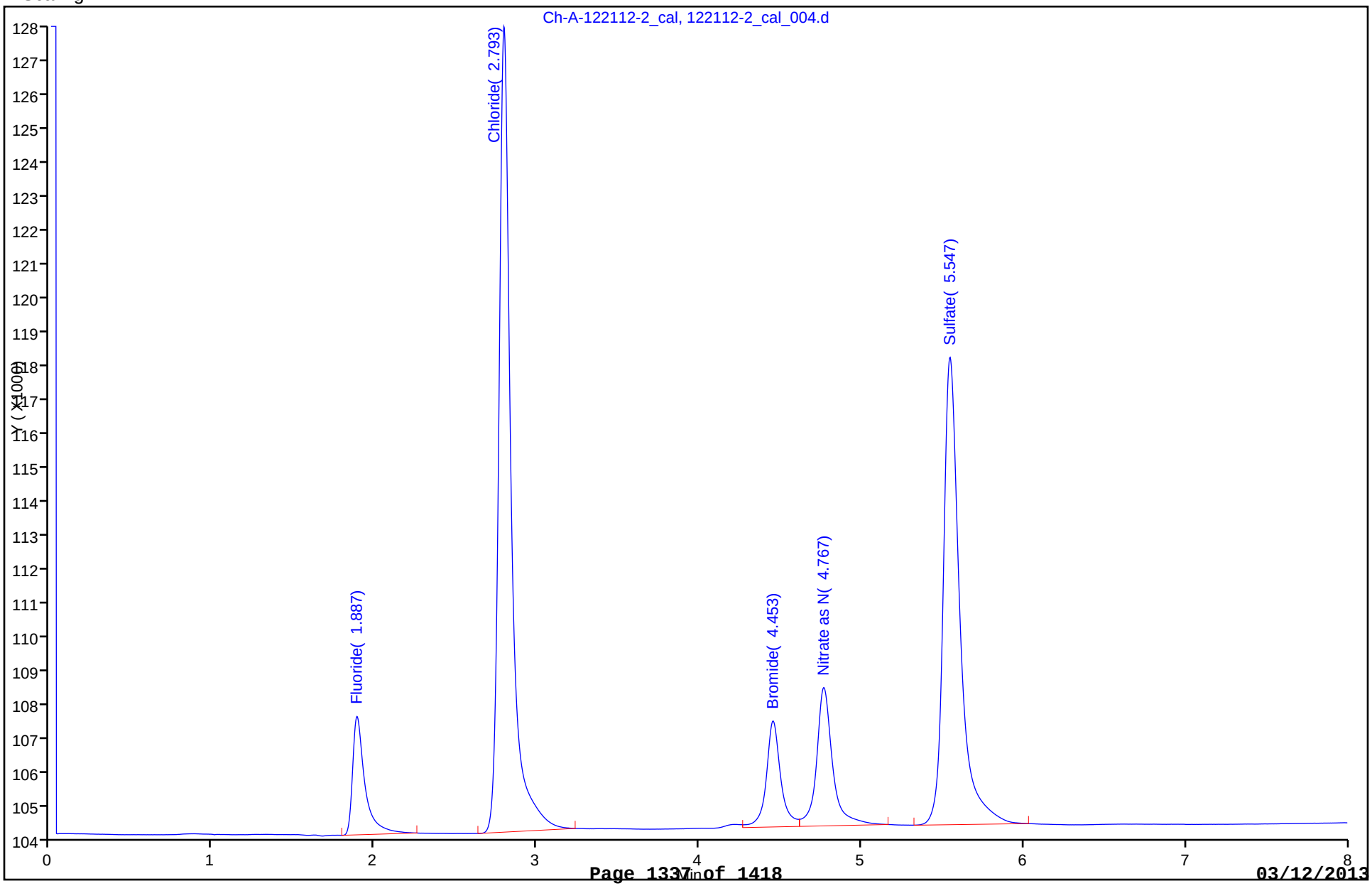
Data File:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\122112-2_cal_004.d		
Lims ID:	STD3	Client ID:	
Inject. Date:	21-Dec-2012 12:33:48	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	#: 004 Name: 480-0017784-004		
Misc. Info.:			
Operator:	TCHROM	Instrument ID:	IC-2
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	97092	Lims Sample ID:	4
Sublist:	chrom-IC2-300*sub2		
Detector:	Ch-A-122112-2_cal		
Method:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\IC2-300.m		
Last Update:	21-Dec-2012 13:47:46	Calib Date:	21-Dec-2012 13:04:11
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\122112-2_cal_007.d		
Limit Group:	MB 300 ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK008		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/uL	Flags
4 Fluoride					
1.887	1.867	0.020	18118	0.4737	
2 Chloride					
2.793	2.753	0.040	121583	4.98	
1 Bromide					
4.453	4.307	0.146	18951	1.94	
5 Nitrate as N					
4.767	4.587	0.180	27385	0.4695	
3 Sulfate					
5.547	5.360	0.187	95493	5.02	

Report Date: 21-Dec-2012 13:47:46 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\122112-2_cal_004.d		
Injection Date:	21-Dec-2012 12:33:48	Limit Group:	MB 300 ICAL
Client ID:		Instrument ID:	IC-2
Lims Batch ID:	97092	Lims Sample ID:	4
Operator ID:	TCHROM	Injection Vol:	1.0 ul
Column Type:		Column Dia:	
Y Scaling:			



TestAmerica Buffalo
Target Compound Quantitation Report

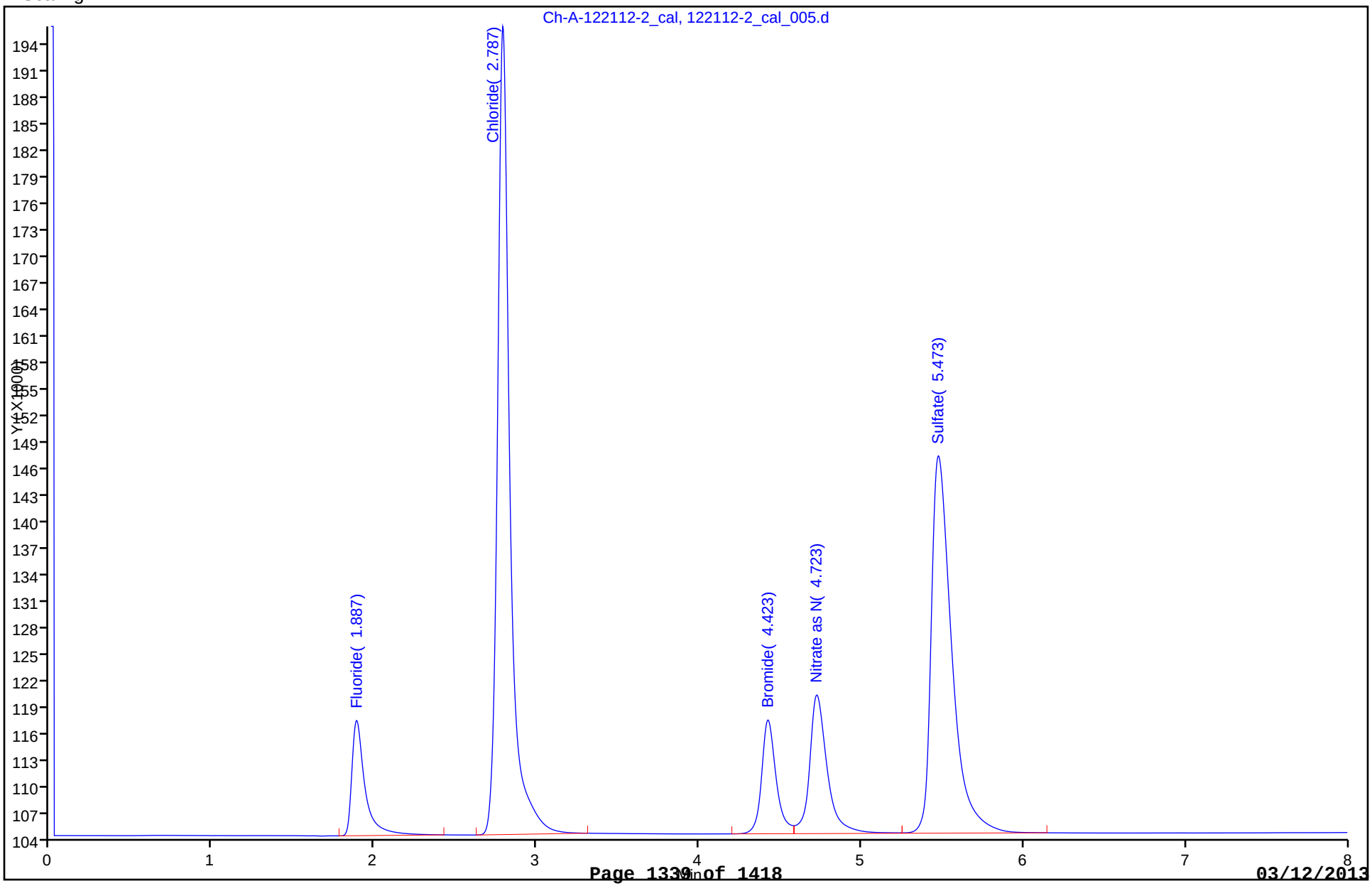
Data File:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\122112-2_cal_005.d		
Lims ID:	STD4	Client ID:	
Inject. Date:	21-Dec-2012 12:43:56	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	#: 005 Name: 480-0017784-005		
Misc. Info.:			
Operator:	TCHROM	Instrument ID:	IC-2
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	97092	Lims Sample ID:	5
Sublist:	chrom-IC2-300*sub2		
Detector:	Ch-A-122112-2_cal		
Method:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\IC2-300.m		
Last Update:	21-Dec-2012 13:47:46	Calib Date:	21-Dec-2012 13:04:11
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\122112-2_cal_007.d		
Limit Group:	MB 300 ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK008		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/uL	Flags
4 Fluoride					
1.887	1.887	0.000	73798	2.07	
2 Chloride					
2.787	2.787	0.000	485495	19.7	
1 Bromide					
4.423	4.423	0.000	79859	7.75	
5 Nitrate as N					
4.723	4.723	0.000	118291	1.89	
3 Sulfate					
5.473	5.473	0.000	373445	20.0	

Report Date: 21-Dec-2012 13:47:46 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\122112-2_cal_005.d		
Injection Date:	21-Dec-2012 12:43:56	Limit Group:	MB 300 ICAL
Client ID:		Instrument ID:	IC-2
Lims Batch ID:	97092	Lims Sample ID:	5
Operator ID:	TCHROM	Injection Vol:	1.0 ul
Column Type:		Column Dia:	
Y Scaling:			



TestAmerica Buffalo
Target Compound Quantitation Report

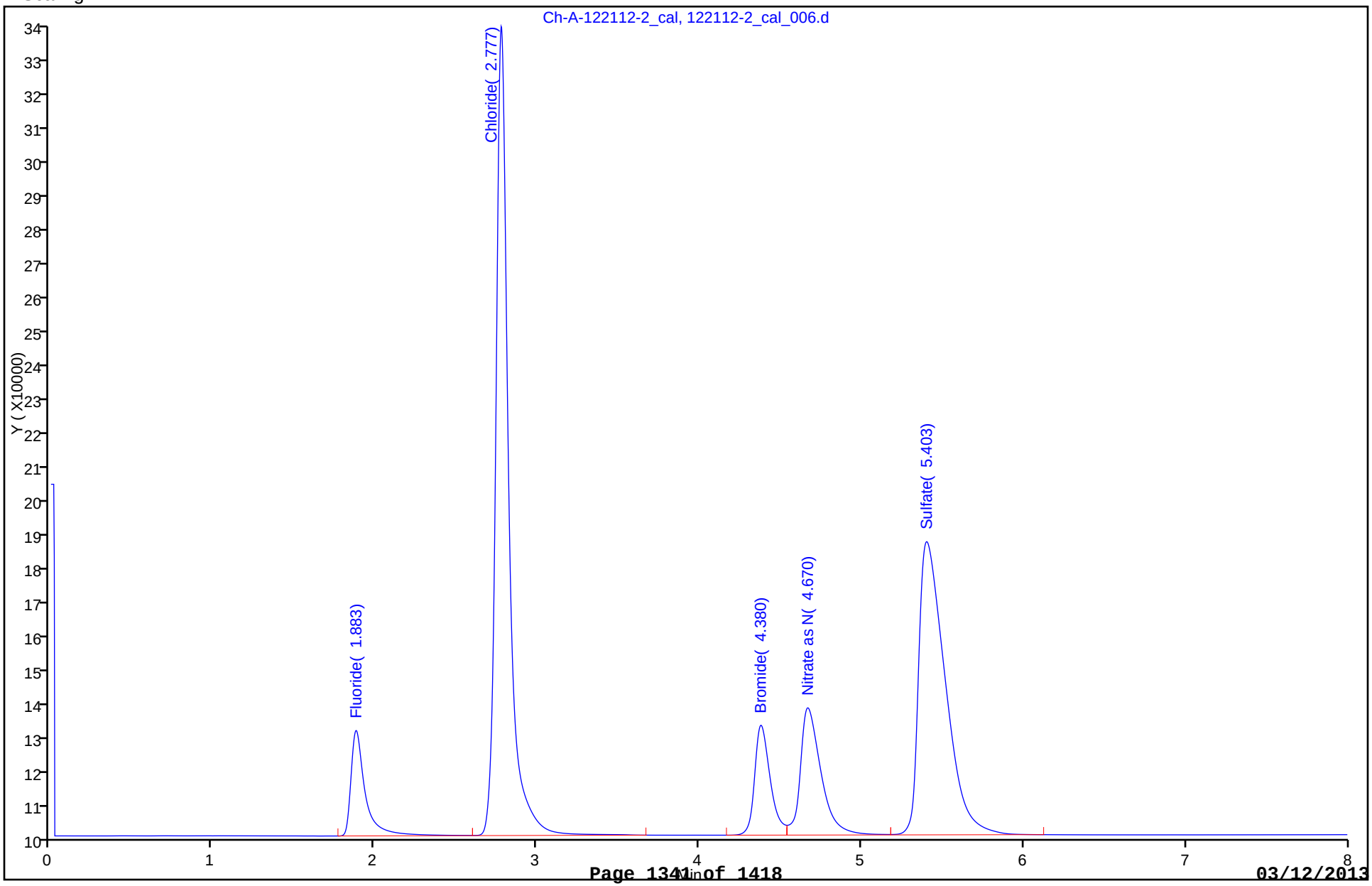
Data File:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\122112-2_cal_006.d		
Lims ID:	STD5	Client ID:	
Inject. Date:	21-Dec-2012 12:54:03	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	5
Sample ID:	#: 006 Name: 480-0017784-006		
Misc. Info.:			
Operator:	TCHROM	Instrument ID:	IC-2
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	97092	Lims Sample ID:	6
Sublist:	chrom-IC2-300*sub2		
Detector:	Ch-A-122112-2_cal		
Method:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\IC2-300.m		
Last Update:	21-Dec-2012 13:47:46	Calib Date:	21-Dec-2012 13:04:11
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\122112-2_cal_007.d		
Limit Group:	MB 300 ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK008		

RT	EXP RT	DLT RT	Response	On-Col Amt ng/uL	Flags
4 Fluoride					
1.883	1.887	-0.004	183576	5.20	
2 Chloride					
2.777	2.787	-0.010	1249630	50.6	
1 Bromide					
4.380	4.423	-0.043	208273	20.0	
5 Nitrate as N					
4.670	4.723	-0.053	318299	5.03	
3 Sulfate					
5.403	5.473	-0.070	942614	50.7	

Report Date: 21-Dec-2012 13:47:47 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\122112-2_cal_006.d		
Injection Date:	21-Dec-2012 12:54:03	Limit Group:	MB 300 ICAL
Client ID:		Instrument ID:	IC-2
Lims Batch ID:	97092	Lims Sample ID:	6
Operator ID:	TCHROM	Injection Vol:	1.0 ul
Column Type:		Column Dia:	
Y Scaling:			



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\122112-2_cal_007.d		
Lims ID:	STD6	Client ID:	
Inject. Date:	21-Dec-2012 13:04:11	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	#: 007 Name: 480-0017784-007		
Misc. Info.:			
Operator:	TCHROM	Instrument ID:	IC-2
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	97092	Lims Sample ID:	7
Sublist:	chrom-IC2-300*sub2		
Detector:	Ch-A-122112-2_cal		

Method:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\IC2-300.m		
Last Update:	21-Dec-2012 13:47:47	Calib Date:	21-Dec-2012 13:04:11
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\122112-2_cal_007.d		
Limit Group:	MB 300 ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK008		

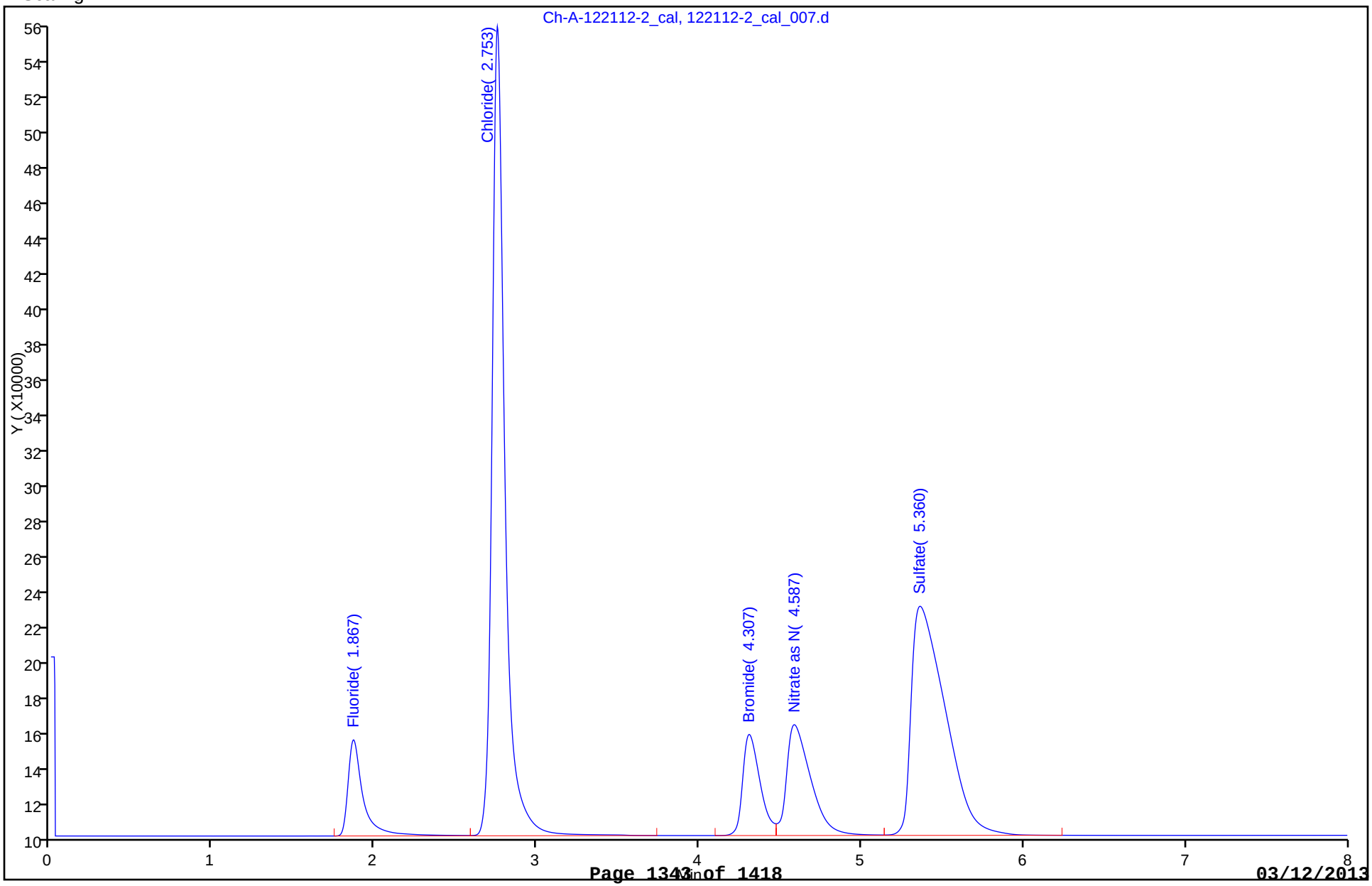
First Level Reviewer: clarkk Date: 21-Dec-2012 13:47:26

RT	EXP RT	DLT RT	Response	On-Col Amt ng/uL	Flags
4 Fluoride					
1.867	1.867	0.000	347327	9.89	
2 Chloride					
2.753	2.753	0.000	2468460	99.8	
1 Bromide					
4.307	4.307	0.000	417887	40.0	
5 Nitrate as N					
4.587	4.587	0.000	635985	10.0	
3 Sulfate					
5.360	5.360	0.000	1848465	99.6	

Report Date: 21-Dec-2012 13:47:47 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\122112-2_cal_007.d		
Injection Date:	21-Dec-2012 13:04:11	Limit Group:	MB 300 ICAL
Client ID:		Instrument ID:	IC-2
Lims Batch ID:	97092	Lims Sample ID:	7
Operator ID:	TCHROM	Injection Vol:	1.0 ul
Column Type:		Column Dia:	
Y Scaling:			



TestAmerica Buffalo
CCV, Cal Verification Report

Data File: \\Bufchrom\ChromData\IC-2\20121228-17914.b\122812-2_001-20121228-115546.d
Lims ID: CCV Client ID:
Inject. Date: 28-Dec-2012 11:55:38 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: #: 001 Name: 480-0017914-001
Misc. Info.:
Operator: TCHROM Instrument ID: IC-2
Injection Vol: 1.0 ul ALS Bottle#: 0
Lims Batch ID: 97680 Lims Sample ID: 1
Sublist: chrom-IC2-300*sub2
Detector: Ch-A-122812-2

Method: \\Bufchrom\ChromData\IC-2\20121228-17914.b\IC2-300.m
Last Update: 28-Dec-2012 12:13:04 Calib Date: 21-Dec-2012 13:04:11
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-2\20121221-17784.b\122112-2_cal_007.d
Limit Group: MB 300 ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK003

First Level Reviewer: cudneyk Date: 28-Dec-2012 12:13:04

Start Cal Date: 21-Dec-2012 12:03:24
End Cal Date: 21-Dec-2012 13:04:11

Compound	Standard RRF/Amount	DLT RT	Ccal Amount	Ccal RF	Min. RRF	%D	Max. %D
4 Fluoride	2.00	0.000	2.11	37730	0.000	5.7	10.0
2 Chloride	20.0	0.000	20.3	25006	0.000	1.4	10.0
1 Bromide	8.00	0.000	8.19	10547	0.000	2.3	10.0
5 Nitrate as N	2.00	0.000	2.00	62886	0.000	0.2	10.0
3 Sulfate	20.0	0.000	20.8	19357	0.000	3.8	10.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\IC-2\20121228-17914.b\122812-2_001-20121228-115546.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	28-Dec-2012 11:55:38	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	#: 001 Name: 480-0017914-001		
Misc. Info.:			
Operator:	TCHROM	Instrument ID:	IC-2
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	97680	Lims Sample ID:	1
Sublist:	chrom-IC2-300*sub2		
Detector:	Ch-A-122812-2		
Method:	\\Bufchrom\ChromData\IC-2\20121228-17914.b\IC2-300.m		
Last Update:	28-Dec-2012 12:13:04	Calib Date:	21-Dec-2012 13:04:11
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\122112-2_cal_007.d		
Limit Group:	MB 300 ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK003		

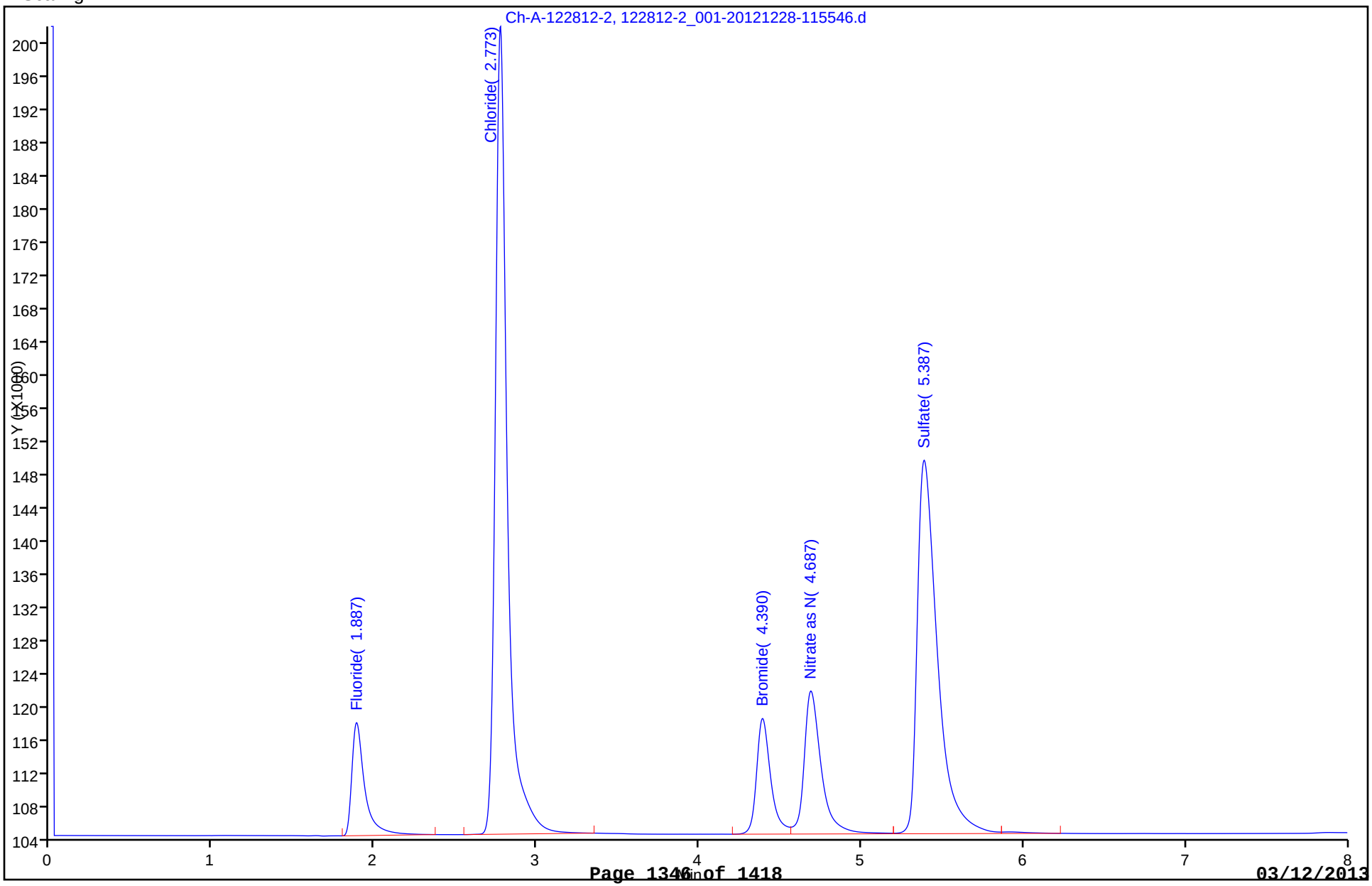
First Level Reviewer: cudneyk Date: 28-Dec-2012 12:13:04

RT	EXP RT	DLT RT	Response	On-Col Amt ng/uL	Flags
4 Fluoride					
1.887	1.887	0.000	75459	2.11	
2 Chloride					
2.773	2.773	0.000	500122	20.3	
1 Bromide					
4.390	4.390	0.000	84376	8.19	
5 Nitrate as N					
4.687	4.687	0.000	125772	2.00	
3 Sulfate					
5.387	5.387	0.000	387139	20.8	

Report Date: 28-Dec-2012 12:13:04 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-2\20121228-17914.b\122812-2_001-20121228-115546.d		
Injection Date:	28-Dec-2012 11:55:38	Limit Group:	MB 300 ICAL
Client ID:		Instrument ID:	IC-2
Lims Batch ID:	97680	Lims Sample ID:	1
Operator ID:	TCHROM	Injection Vol:	1.0 ul
Column Type:		Column Dia:	
Y Scaling:			



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\IC-2\20121228-17914.b\122812-2_002-20121228-120600.d		
Lims ID:	CCB	Client ID:	
Inject. Date:	28-Dec-2012 12:05:46	Dil. Factor:	1.0000
Sample Type:	CCB		
Sample ID:	#: 002 Name: 480-0017914-002		
Misc. Info.:			
Operator:	TCHROM	Instrument ID:	IC-2
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	97680	Lims Sample ID:	2
Detector:	Ch-A-122812-2		
Method:	\\Bufchrom\ChromData\IC-2\20121228-17914.b\IC2-300.m		
Last Update:	28-Dec-2012 10:34:40	Calib Date:	21-Dec-2012 13:04:11
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\122112-2_cal_007.d		
Limit Group:	MB 300 ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK003		

First Level Reviewer: cudneyk Date: 28-Dec-2012 12:36:17

RT	EXP RT	DLT RT	Response	On-Col Amt ng/uL	Flags
1 Bromide					
4.340	4.390	-0.050	3173	0.4304	
3 Sulfate					
5.557	5.387	0.170	3258	0.0470	

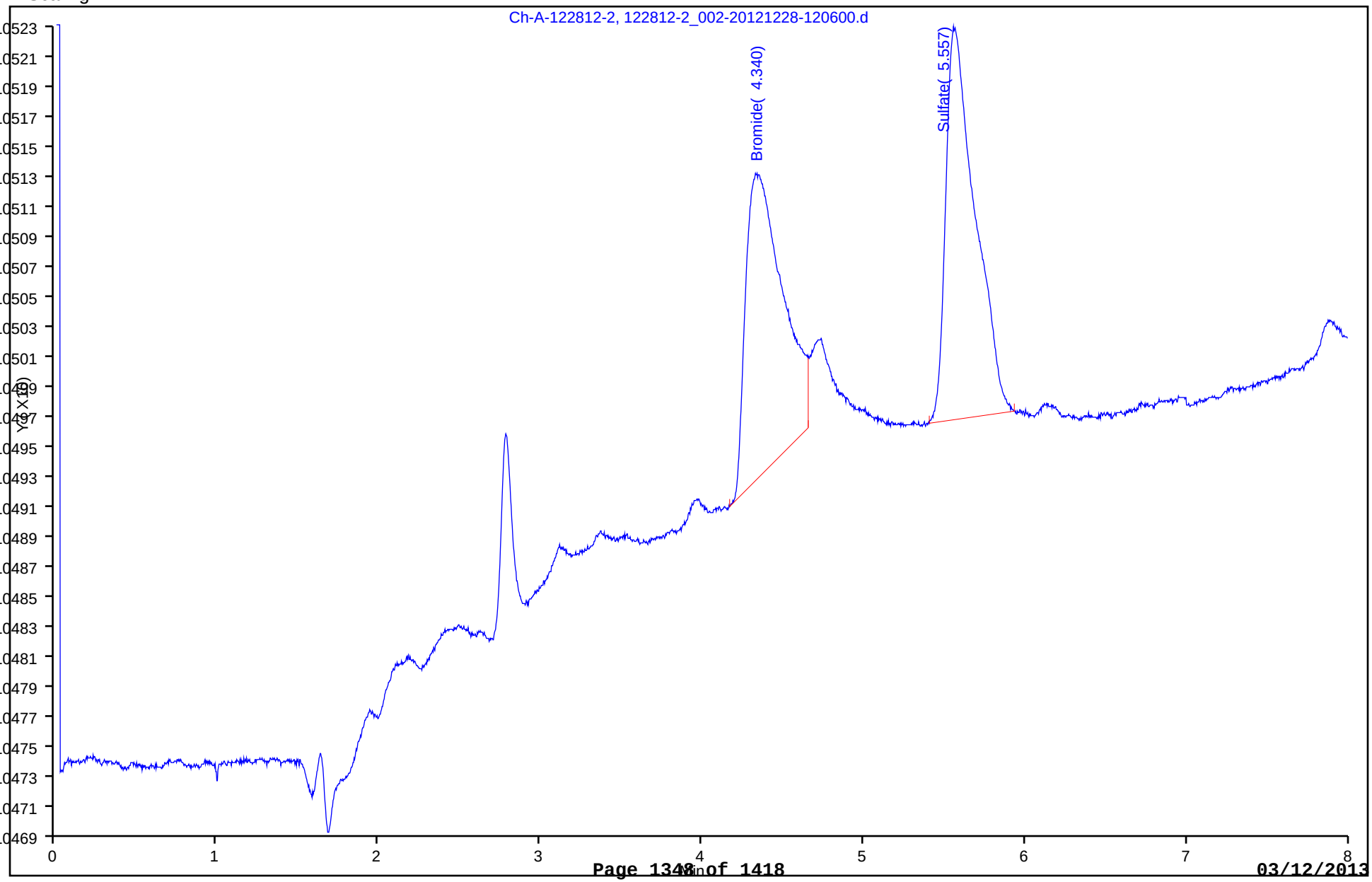
Report Date: 28-Dec-2012 12:36:18 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\IC-2\20121228-17914.b\122812-2_002-20121228-120600.d

Injection Date:	28-Dec-2012 12:05:46	Limit Group:	MB 300 ICAL
Client ID:		Instrument ID:	IC-2
Lims Batch ID:	97680	Lims Sample ID:	2
Operator ID:	TCHROM	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\IC-2\20121228-17914.b\122812-2_003-20121228-121608.d
Lims ID: LCS 480-97670/1-A Client ID:
Inject. Date: 28-Dec-2012 12:15:54 Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: #: 003 Name: 480-0017914-003
Misc. Info.:
Operator: TCHROM Instrument ID: IC-2
Injection Vol: 1.0 ul ALS Bottle#: 0
Lims Batch ID: 97680 Lims Sample ID: 3
Detector: Ch-A-122812-2

Method: \\Bufchrom\ChromData\IC-2\20121228-17914.b\IC2-300.m
Last Update: 28-Dec-2012 12:36:44 Calib Date: 21-Dec-2012 13:04:11
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-2\20121221-17784.b\122112-2_cal_007.d
Limit Group: MB 300 ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK003

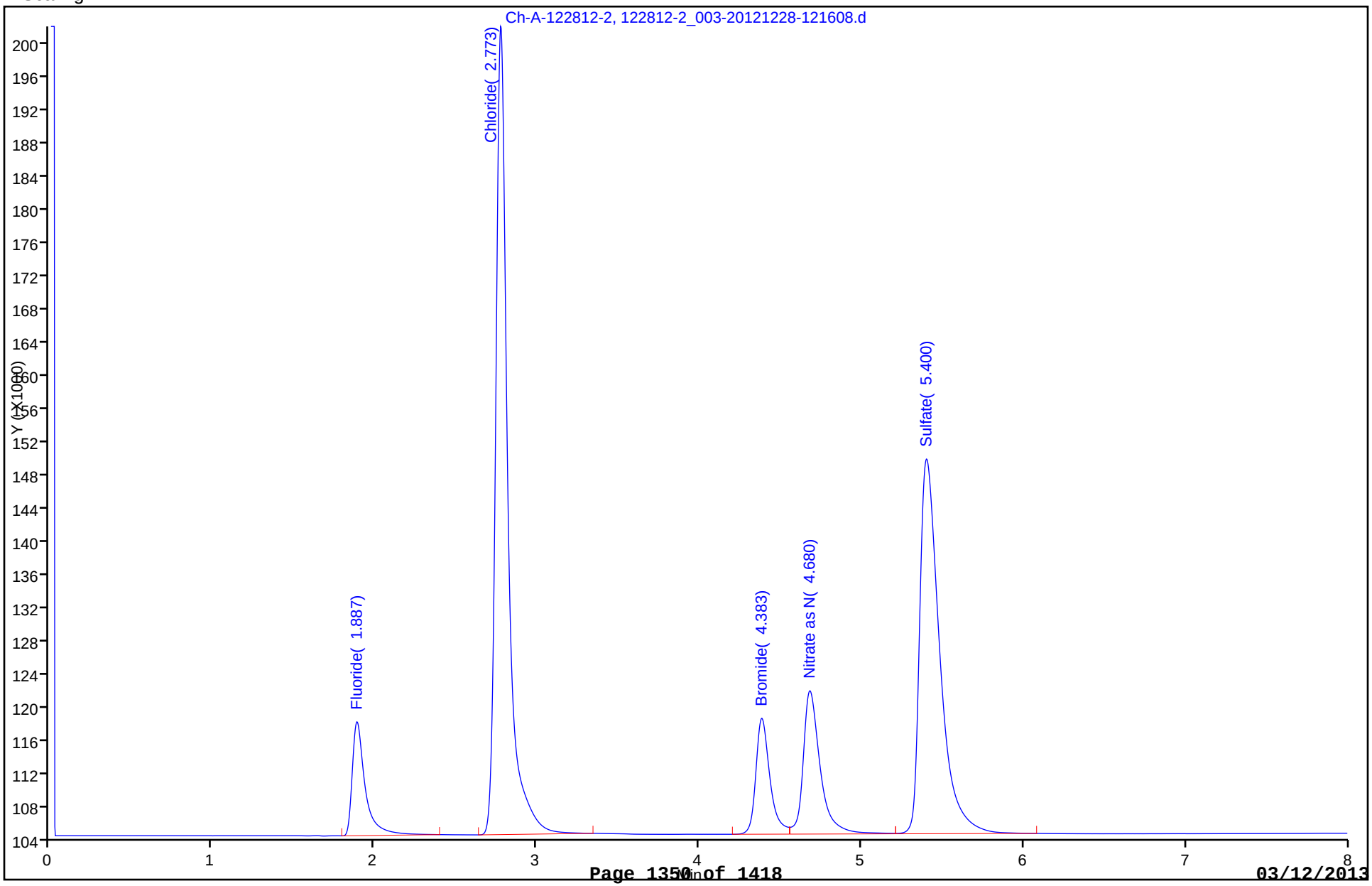
First Level Reviewer: cudneyk Date: 28-Dec-2012 12:44:03

RT	EXP RT	DLT RT	Response	On-Col Amt ng/uL	Flags
4 Fluoride					
1.887	1.887	0.000	76570	2.15	
2 Chloride					
2.773	2.773	0.000	501385	20.3	
1 Bromide					
4.383	4.390	-0.007	84302	8.18	
5 Nitrate as N					
4.680	4.687	-0.007	126017	2.01	
3 Sulfate					
5.400	5.387	0.013	387165	20.8	

Report Date: 28-Dec-2012 12:44:04 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-2\20121228-17914.b\122812-2_003-20121228-121608.d		
Injection Date:	28-Dec-2012 12:15:54	Limit Group:	MB 300 ICAL
Client ID:		Instrument ID:	IC-2
Lims Batch ID:	97680	Lims Sample ID:	3
Operator ID:	TCHROM	Injection Vol:	1.0 ul
Column Type:		Column Dia:	
Y Scaling:			



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\IC-2\20121228-17914.b\122812-2_004-20121228-122615.d		
Lims ID:	MB 480-97670/2-A	Client ID:	
Inject. Date:	28-Dec-2012 12:26:02	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	#: 004 Name: 480-0017914-004		
Misc. Info.:			
Operator:	TCHROM	Instrument ID:	IC-2
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	97680	Lims Sample ID:	4
Detector:	Ch-A-122812-2		

Method:	\\Bufchrom\ChromData\IC-2\20121228-17914.b\IC2-300.m		
Last Update:	28-Dec-2012 12:36:44	Calib Date:	21-Dec-2012 13:04:11
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\122112-2_cal_007.d		
Limit Group:	MB 300 ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK003		

First Level Reviewer: cudneyk Date: 28-Dec-2012 12:36:44

RT	EXP RT	DLT RT	Response	On-Col Amt ng/uL	Flags
2 Chloride					M
2.760	2.773	-0.013	1123	0.1169	M
5 Nitrate as N					M
4.710	4.687	0.023	532	0.008473	M
3 Sulfate					
5.520	5.387	0.133	4280	0.1022	

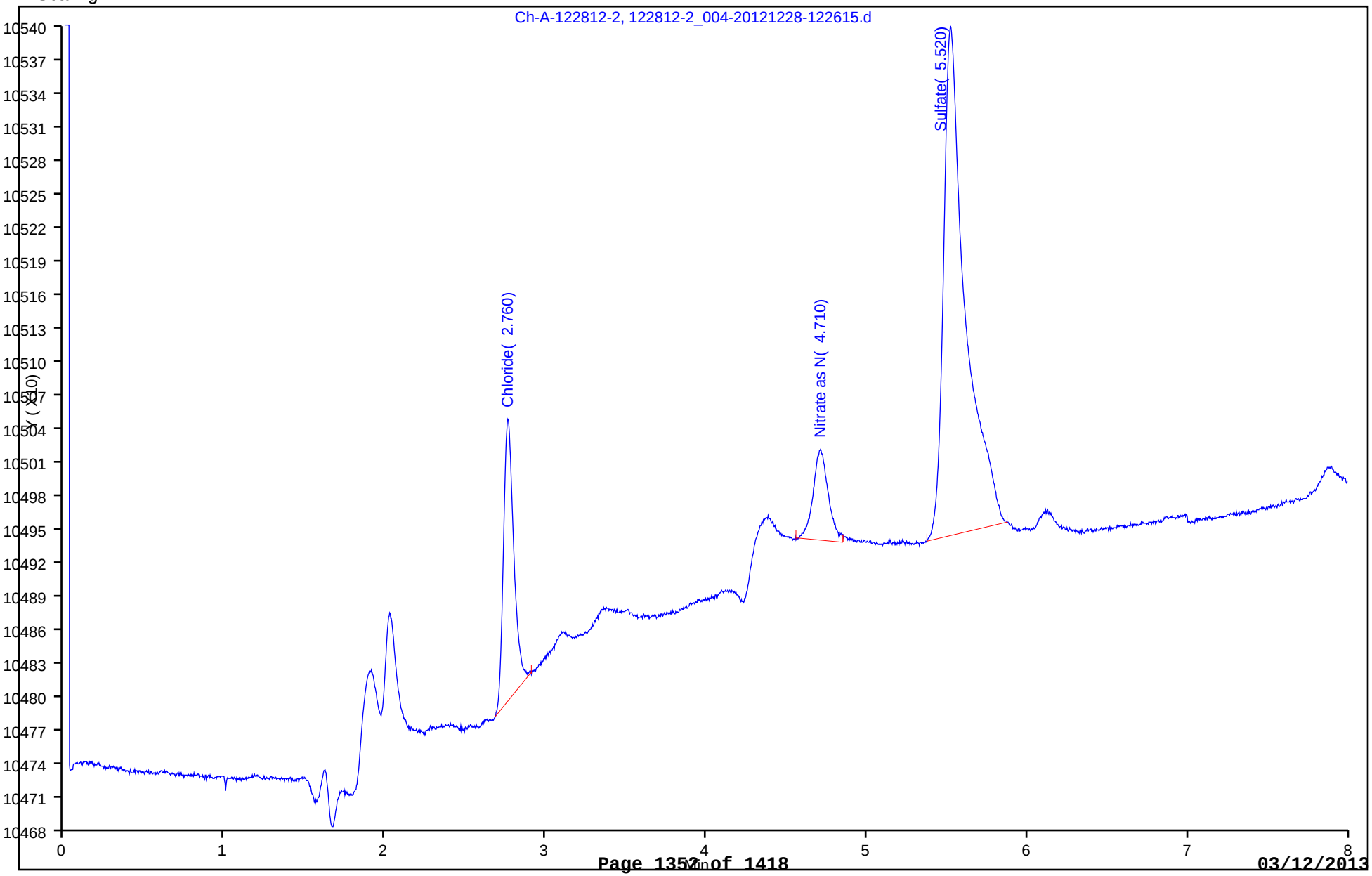
QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 28-Dec-2012 12:36:45 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-2\20121228-17914.b\122812-2_004-20121228-122615.d		
Injection Date:	28-Dec-2012 12:26:02	Limit Group:	MB 300 ICAL
Client ID:		Instrument ID:	IC-2
Lims Batch ID:	97680	Lims Sample ID:	4
Operator ID:	TCHROM	Injection Vol:	1.0 ul
Column Type:		Column Dia:	
Y Scaling:			



Report Date: 28-Dec-2012 12:36:45 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

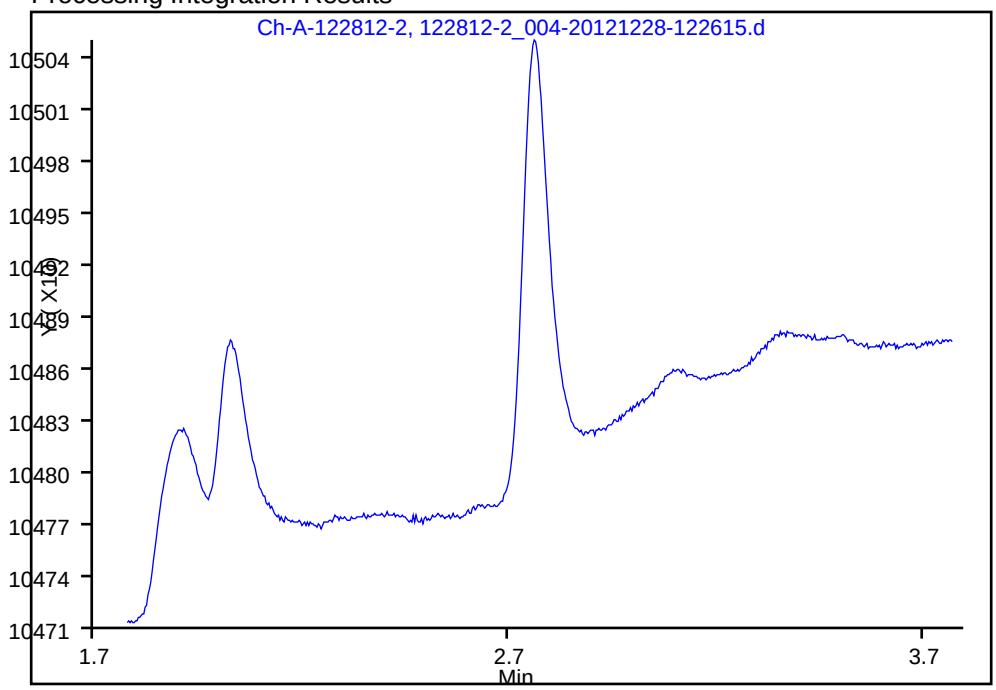
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-2\20121228-17914.b\122812-2_004-20121228-122615.d		
Injection Date:	28-Dec-2012 12:26:02	Limit Group:	MB 300 ICAL
Client ID:		Instrument ID:	IC-2
Lims Batch ID:	97680	Lims Sample ID:	4
Operator ID:	TCHROM	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

2 Chloride, Signal: 1, Type: quant, RT: 2.77

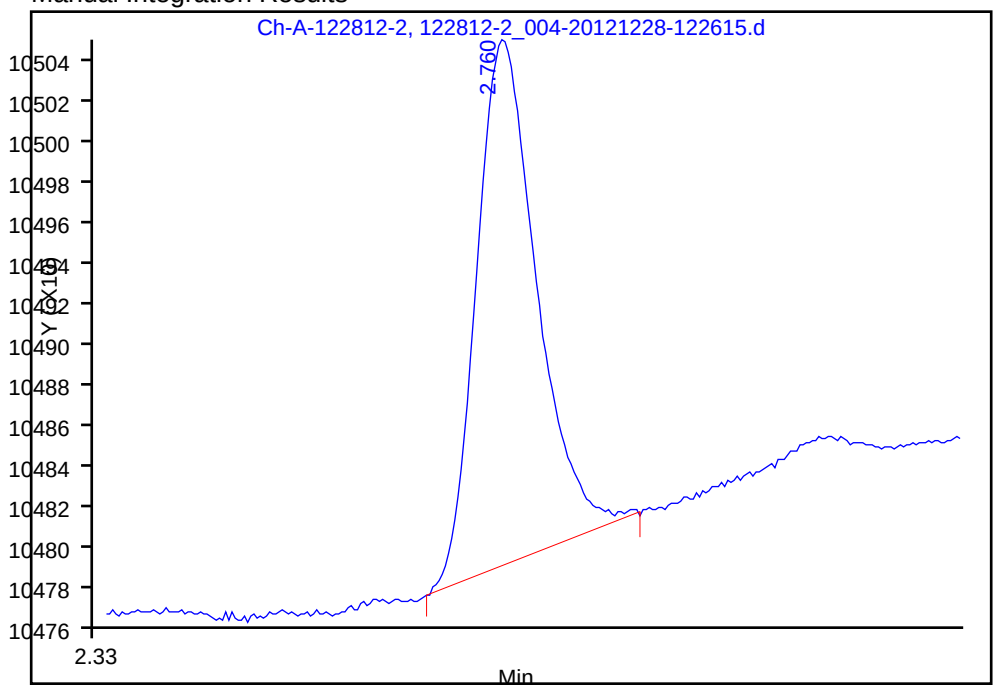
Processing Integration Results

Not Detected
Expected RT: 2.77



Manual Integration Results

RT: 2.76
Response: 1123
Amount: 0.116940



Reviewer: cudneyk, 28-Dec-2012 12:36:44
Audit Action: Manually Integrated/Assigned Compound ID
Audit Reason: Peak not integrated

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\IC-2\20121228-17914.b\122812-2_005-20121228-123623.d		
Lims ID:	480-30406-A-1-B	Client ID:	OC-SD-SD-503-XXX
Inject. Date:	28-Dec-2012 12:36:09	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	#: 005 Name: 480-0017914-005		
Misc. Info.:			
Operator:	TCHROM	Instrument ID:	IC-2
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	97680	Lims Sample ID:	5
Detector:	Ch-A-122812-2		
Method:	\\Bufchrom\ChromData\IC-2\20121228-17914.b\IC2-300.m		
Last Update:	28-Dec-2012 11:15:04	Calib Date:	21-Dec-2012 13:04:11
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\122112-2_cal_007.d		
Limit Group:	MB 300 ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK003		

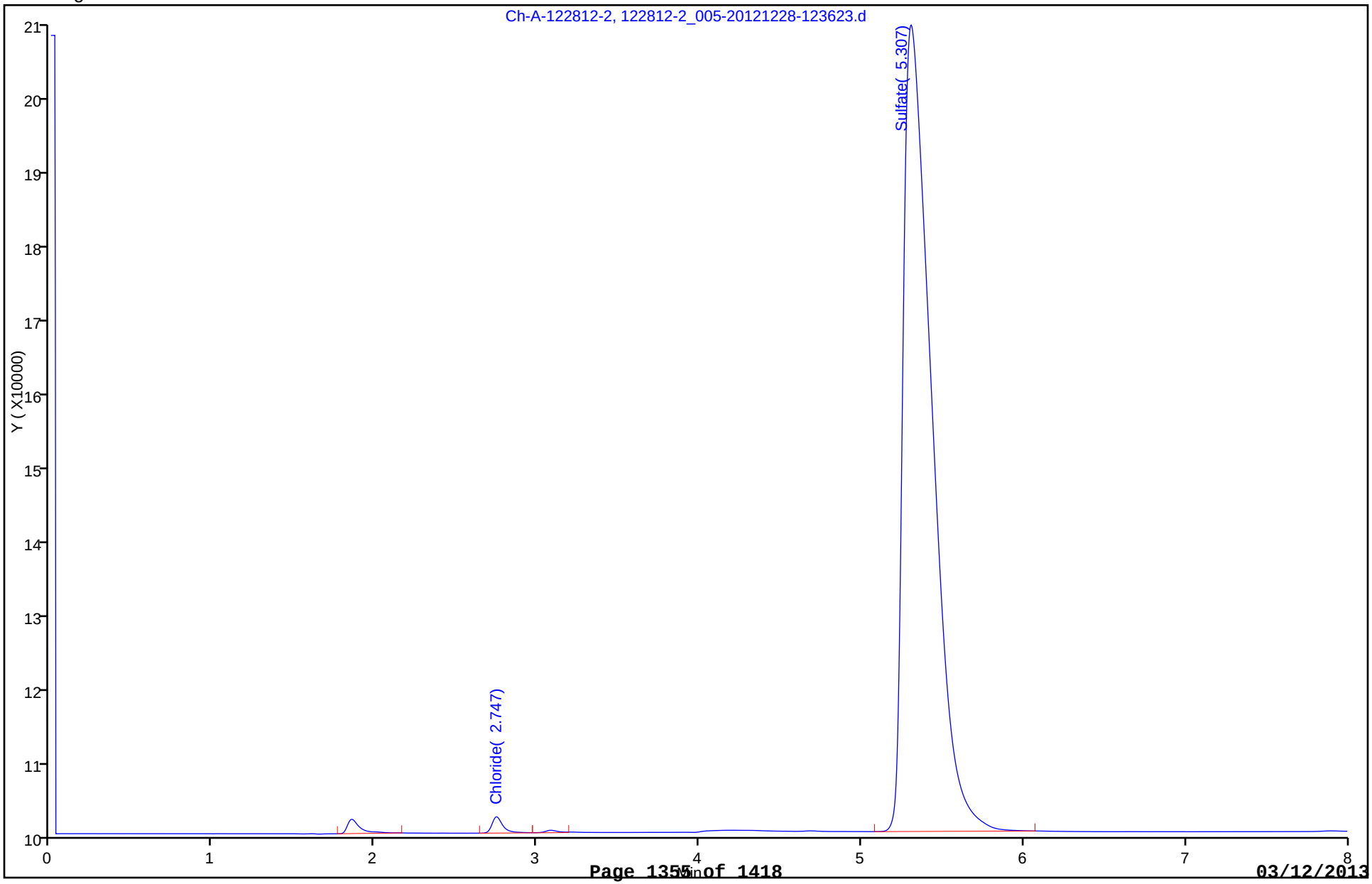
First Level Reviewer: cudneyk Date: 28-Dec-2012 13:21:27

RT	EXP RT	DLT RT	Response	On-Col Amt ng/uL	Flags
2 Chloride					
2.747	2.773	-0.026	9526	0.4564	
3 Sulfate					
5.307	5.387	-0.080	1226239	66.0	

Report Date: 28-Dec-2012 13:21:27 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-2\20121228-17914.b\122812-2_005-20121228-123623.d		
Injection Date:	28-Dec-2012 12:36:09	Limit Group:	MB 300 ICAL
Client ID:	OC-SD-SD-503-XXX	Instrument ID:	IC-2
Lims Batch ID:	97680	Lims Sample ID:	5
Operator ID:	TCHROM	Injection Vol:	1.0 ul
Column Type:		Column Dia:	
Y Scaling:			



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\IC-2\20121228-17914.b\122812-2_006.d		
Lims ID:	480-30406-A-2-B	Client ID:	OC-SD-SD-504-XXX
Inject. Date:	28-Dec-2012 12:46:17	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	#: 006 Name: 480-0017914-006		
Misc. Info.:			
Operator:	TCHROM	Instrument ID:	IC-2
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	97680	Lims Sample ID:	6
Detector:	Ch-A-122812-2		
Method:	\\Bufchrom\ChromData\IC-2\20121228-17914.b\IC2-300.m		
Last Update:	28-Dec-2012 11:15:04	Calib Date:	21-Dec-2012 13:04:11
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\122112-2_cal_007.d		
Limit Group:	MB 300 ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK003		

First Level Reviewer: cudneyk Date: 28-Dec-2012 13:21:30

RT	EXP RT	DLT RT	Response	On-Col Amt ng/uL	Flags
2 Chloride					
2.737	2.773	-0.036	18529	0.8201	
3 Sulfate					
5.183	5.387	-0.204	2008798	108.3	E

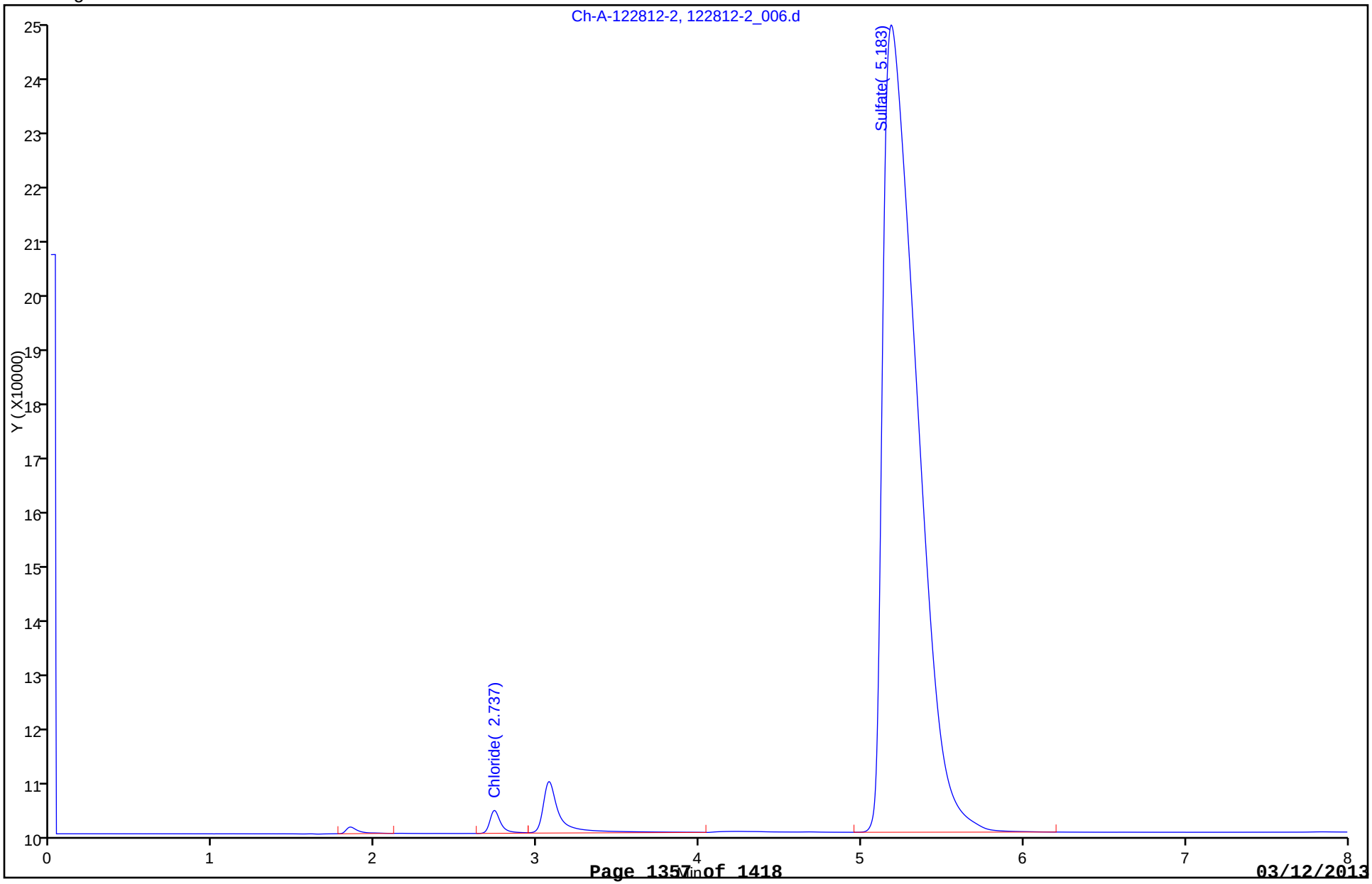
QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

Report Date: 28-Dec-2012 13:21:30 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-2\20121228-17914.b\122812-2_006.d		
Injection Date:	28-Dec-2012 12:46:17	Limit Group:	MB 300 ICAL
Client ID:	OC-SD-SD-504-XXX	Instrument ID:	IC-2
Lims Batch ID:	97680	Lims Sample ID:	6
Operator ID:	TCHROM	Injection Vol:	1.0 ul
Column Type:		Column Dia:	
Y Scaling:			



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\IC-2\20121228-17914.b\122812-2_007.d		
Lims ID:	480-30406-A-3-B	Client ID:	OC-SD-SD-501-XXX
Inject. Date:	28-Dec-2012 12:56:25	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	#: 007 Name: 480-0017914-007		
Misc. Info.:			
Operator:	TCHROM	Instrument ID:	IC-2
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	97680	Lims Sample ID:	7
Detector:	Ch-A-122812-2		
Method:	\\Bufchrom\ChromData\IC-2\20121228-17914.b\IC2-300.m		
Last Update:	28-Dec-2012 11:15:04	Calib Date:	21-Dec-2012 13:04:11
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\122112-2_cal_007.d		
Limit Group:	MB 300 ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK003		

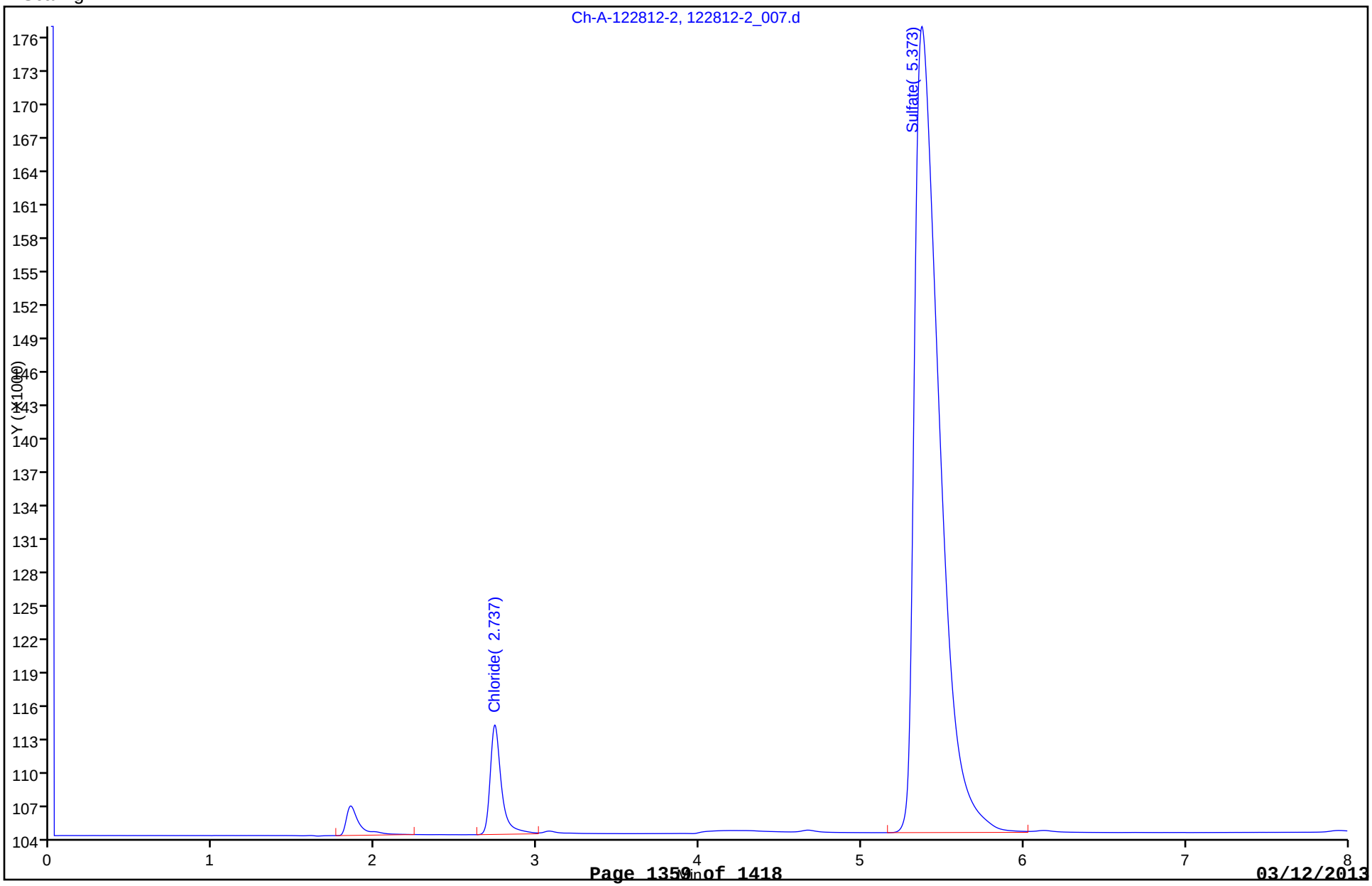
First Level Reviewer: cudneyk Date: 28-Dec-2012 13:21:33

RT	EXP RT	DLT RT	Response	On-Col Amt ng/uL	Flags
2 Chloride					
2.737	2.773	-0.036	47273	1.98	
3 Sulfate					
5.373	5.387	-0.014	767134	41.3	

Report Date: 28-Dec-2012 13:21:33 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-2\20121228-17914.b\122812-2_007.d		
Injection Date:	28-Dec-2012 12:56:25	Limit Group:	MB 300 ICAL
Client ID:	OC-SD-SD-501-XXX	Instrument ID:	IC-2
Lims Batch ID:	97680	Lims Sample ID:	7
Operator ID:	TCHROM	Injection Vol:	1.0 ul
Column Type:		Column Dia:	
Y Scaling:			



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\IC-2\20121228-17914.b\122812-2_008.d		
Lims ID:	480-30406-A-4-B	Client ID:	OC-SD-SD-502-XXX
Inject. Date:	28-Dec-2012 13:06:33	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	#: 008 Name: 480-0017914-008		
Misc. Info.:			
Operator:	TCHROM	Instrument ID:	IC-2
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	97680	Lims Sample ID:	8
Detector:	Ch-A-122812-2		
Method:	\\Bufchrom\ChromData\IC-2\20121228-17914.b\IC2-300.m		
Last Update:	28-Dec-2012 11:15:04	Calib Date:	21-Dec-2012 13:04:11
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\122112-2_cal_007.d		
Limit Group:	MB 300 ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK003		

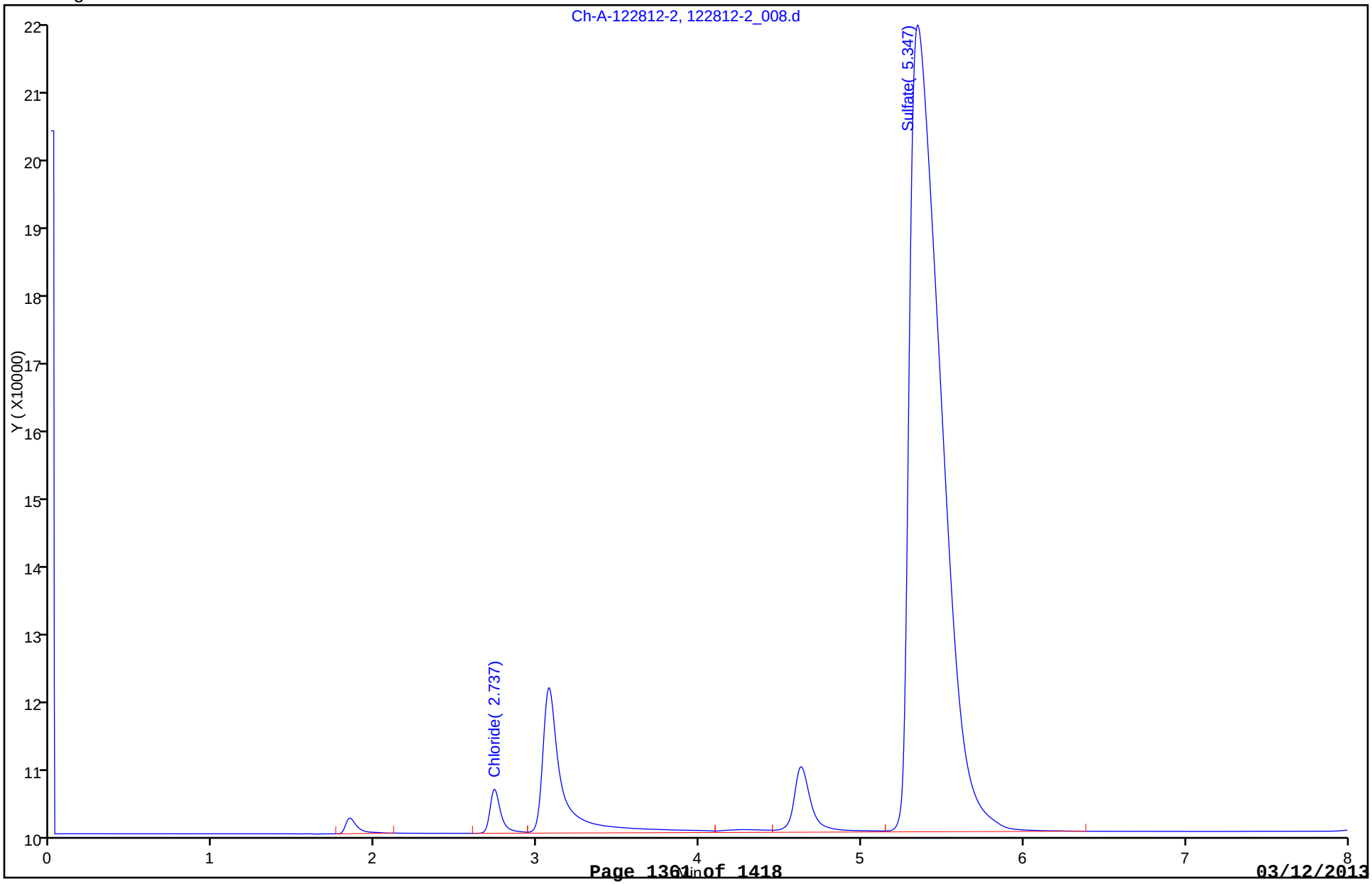
First Level Reviewer: cudneyk Date: 28-Dec-2012 13:21:39

RT	EXP RT	DLT RT	Response	On-Col Amt ng/uL	Flags
2 Chloride					
2.737	2.773	-0.036	29502	1.26	
3 Sulfate					
5.347	5.387	-0.040	1534301	82.7	

Report Date: 28-Dec-2012 13:21:39 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-2\20121228-17914.b\122812-2_008.d		
Injection Date:	28-Dec-2012 13:06:33	Limit Group:	MB 300 ICAL
Client ID:	OC-SD-SD-502-XXX	Instrument ID:	IC-2
Lims Batch ID:	97680	Lims Sample ID:	8
Operator ID:	TCHROM	Injection Vol:	1.0 ul
Column Type:		Column Dia:	
Y Scaling:			



TestAmerica Buffalo
CCV, Cal Verification Report

Data File: \\Bufchrom\ChromData\IC-2\20121228-17914.b\122812-2_013.d
Lims ID: CCV Client ID:
Inject. Date: 28-Dec-2012 13:58:29 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: #: 013 Name: 480-0017914-013
Misc. Info.:
Operator: TCHROM Instrument ID: IC-2
Injection Vol: 1.0 ul ALS Bottle#: 0
Lims Batch ID: 97680 Lims Sample ID: 13
Sublist: chrom-IC2-300*sub2
Detector: Ch-A-122812-2

Method: \\Bufchrom\ChromData\IC-2\20121228-17914.b\IC2-300.m
Last Update: 28-Dec-2012 14:56:04 Calib Date: 21-Dec-2012 13:04:11
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-2\20121221-17784.b\122112-2_cal_007.d
Limit Group: MB 300 ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK003

First Level Reviewer: cudneyk Date: 28-Dec-2012 14:56:04

Start Cal Date: 21-Dec-2012 12:03:24
End Cal Date: 21-Dec-2012 13:04:11

Compound	Standard RRF/Amount	DLT RT	Ccal Amount	Ccal RF	Min. RRF	%D	Max. %D
4 Fluoride	2.00	0.000	2.10	37443	0.000	4.8	10.0
2 Chloride	20.0	0.000	20.0	24687	0.000	0.1	10.0
1 Bromide	8.00	0.000	8.02	10328	0.000	0.2	10.0
5 Nitrate as N	2.00	0.000	1.99	62431	0.000	-0.6	10.0
3 Sulfate	20.0	0.000	20.3	18950	0.000	1.6	10.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\IC-2\20121228-17914.b\122812-2_013.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	28-Dec-2012 13:58:29	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	#: 013 Name: 480-0017914-013		
Misc. Info.:			
Operator:	TCHROM	Instrument ID:	IC-2
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	97680	Lims Sample ID:	13
Sublist:	chrom-IC2-300*sub2		
Detector:	Ch-A-122812-2		
Method:	\\Bufchrom\ChromData\IC-2\20121228-17914.b\IC2-300.m		
Last Update:	28-Dec-2012 14:56:04	Calib Date:	21-Dec-2012 13:04:11
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\122112-2_cal_007.d		
Limit Group:	MB 300 ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK003		

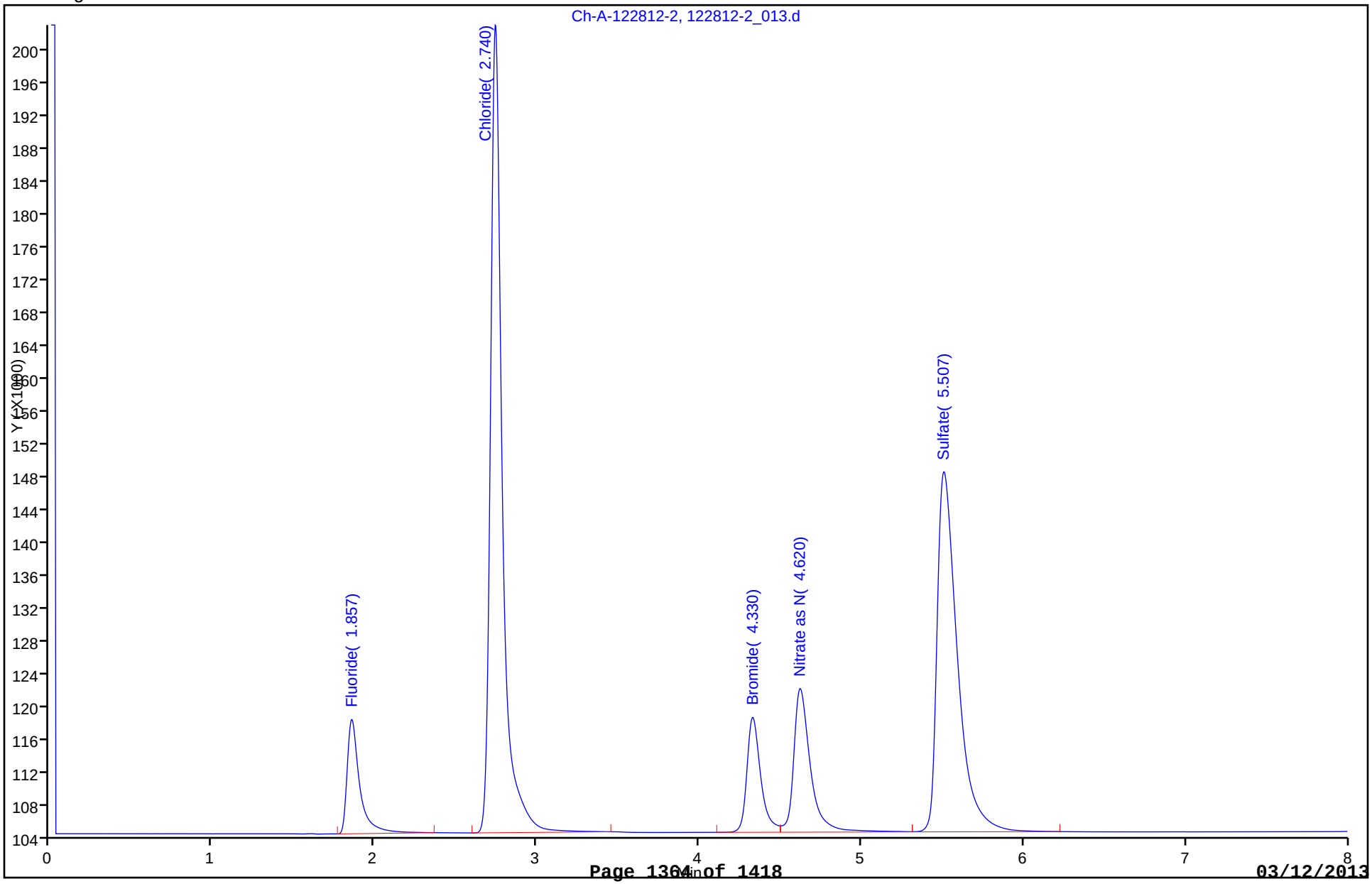
First Level Reviewer: cudneyk Date: 28-Dec-2012 14:56:04

RT	EXP RT	DLT RT	Response	On-Col Amt ng/uL	Flags
4 Fluoride					
1.857	1.857	0.000	74886	2.10	
2 Chloride					
2.740	2.740	0.000	493746	20.0	
1 Bromide					
4.330	4.330	0.000	82621	8.02	
5 Nitrate as N					
4.620	4.620	0.000	124861	1.99	
3 Sulfate					
5.507	5.507	0.000	379002	20.3	

Report Date: 28-Dec-2012 14:56:04 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-2\20121228-17914.b\122812-2_013.d		
Injection Date:	28-Dec-2012 13:58:29	Limit Group:	MB 300 ICAL
Client ID:		Instrument ID:	IC-2
Lims Batch ID:	97680	Lims Sample ID:	13
Operator ID:	TCHROM	Injection Vol:	1.0 ul
Column Type:		Column Dia:	
Y Scaling:			



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\IC-2\20121228-17914.b\122812-2_014.d		
Lims ID:	CCB	Client ID:	
Inject. Date:	28-Dec-2012 14:08:36	Dil. Factor:	1.0000
Sample Type:	CCB		
Sample ID:	#: 014 Name: 480-0017914-014		
Misc. Info.:			
Operator:	TCHROM	Instrument ID:	IC-2
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	97680	Lims Sample ID:	14
Detector:	Ch-A-122812-2		
Method:	\\Bufchrom\ChromData\IC-2\20121228-17914.b\IC2-300.m		
Last Update:	28-Dec-2012 14:56:04	Calib Date:	21-Dec-2012 13:04:11
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\122112-2_cal_007.d		
Limit Group:	MB 300 ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK003		

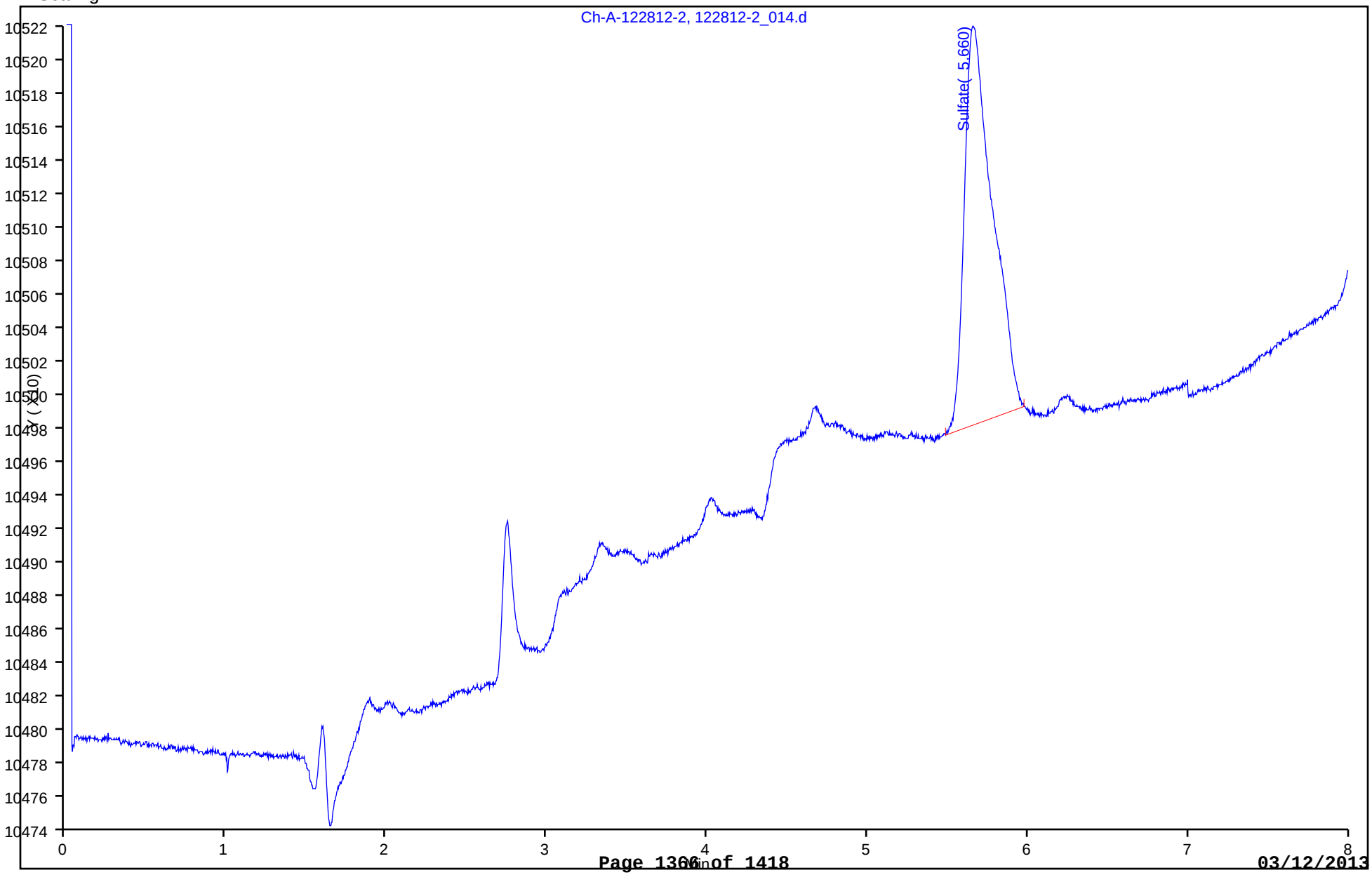
First Level Reviewer: cudneyk Date: 28-Dec-2012 14:56:07

RT	EXP RT	DLT RT	Response	On-Col Amt ng/uL	Flags
3 Sulfate					
5.660	5.507	0.153	2883	0.0268	

Report Date: 28-Dec-2012 14:56:07 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-2\20121228-17914.b\122812-2_014.d		
Injection Date:	28-Dec-2012 14:08:36	Limit Group:	MB 300 ICAL
Client ID:		Instrument ID:	IC-2
Lims Batch ID:	97680	Lims Sample ID:	14
Operator ID:	TCHROM	Injection Vol:	1.0 ul
Column Type:		Column Dia:	
Y Scaling:			



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\IC-2\20121228-17914.b\122812-2_019.d		
Lims ID:	480-30406-A-2-B	Client ID:	OC-SD-SD-504-XXX
Inject. Date:	28-Dec-2012 14:59:15	Dil. Factor:	2.0000
Sample Type:	Client		
Sample ID:	#: 019 Name: 480-0017914-019		
Misc. Info.:			
Operator:	TCHROM	Instrument ID:	IC-2
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	97680	Lims Sample ID:	19
Detector:	Ch-A-122812-2		
Method:	\\Bufchrom\ChromData\IC-2\20121228-17914.b\IC2-300.m		
Last Update:	28-Dec-2012 13:27:59	Calib Date:	21-Dec-2012 13:04:11
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\122112-2_cal_007.d		
Limit Group:	MB 300 ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK003		

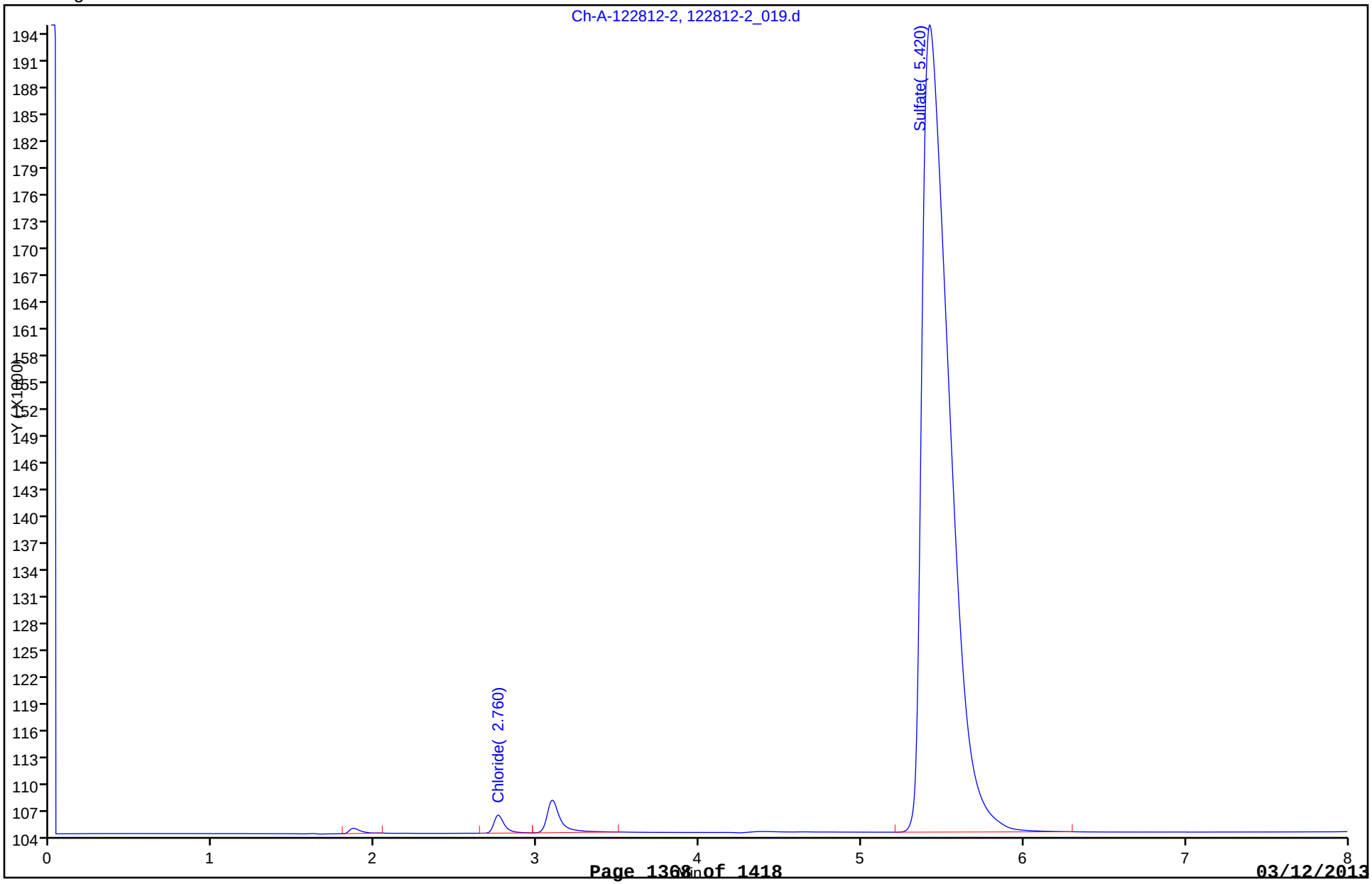
First Level Reviewer: cudneyk Date: 28-Dec-2012 15:58:22

RT	EXP RT	DLT RT	Response	On-Col Amt ng/uL	Flags
2 Chloride					
2.760	2.760	0.000	9177	0.4423	
3 Sulfate					
5.420	5.523	-0.103	1062095	57.2	

Report Date: 28-Dec-2012 15:58:22 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-2\20121228-17914.b\122812-2_019.d		
Injection Date:	28-Dec-2012 14:59:15	Limit Group:	MB 300 ICAL
Client ID:	OC-SD-SD-504-XXX	Instrument ID:	IC-2
Lims Batch ID:	97680	Lims Sample ID:	19
Operator ID:	TCHROM	Injection Vol:	1.0 ul
Column Type:		Column Dia:	
Y Scaling:			



TestAmerica Buffalo
CCV, Cal Verification Report

Data File: \\Bufchrom\ChromData\IC-2\20121228-17914.b\122812-2_020.d
Lims ID: CCV Client ID:
Inject. Date: 28-Dec-2012 15:09:23 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: #: 020 Name: 480-0017914-020
Misc. Info.:
Operator: TCHROM Instrument ID: IC-2
Injection Vol: 1.0 ul ALS Bottle#: 0
Lims Batch ID: 97680 Lims Sample ID: 20
Sublist: chrom-IC2-300*sub2
Detector: Ch-A-122812-2

Method: \\Bufchrom\ChromData\IC-2\20121228-17914.b\IC2-300.m
Last Update: 28-Dec-2012 15:58:26 Calib Date: 21-Dec-2012 13:04:11
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\IC-2\20121221-17784.b\122112-2_cal_007.d
Limit Group: MB 300 ICAL
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK003

First Level Reviewer: cudneyk Date: 28-Dec-2012 15:58:26

Start Cal Date: 21-Dec-2012 12:03:24
End Cal Date: 21-Dec-2012 13:04:11

Compound	Standard RRF/Amount	DLT RT	Ccal Amount	Ccal RF	Min. RRF	%D	Max. %D
4 Fluoride	2.00	0.000	2.13	38038	0.000	6.5	10.0
2 Chloride	20.0	0.000	20.2	24858	0.000	0.8	10.0
1 Bromide	8.00	0.000	8.12	10463	0.000	1.5	10.0
5 Nitrate as N	2.00	0.000	1.96	61624	0.000	-1.9	10.0
3 Sulfate	20.0	0.000	20.7	19306	0.000	3.5	10.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\IC-2\20121228-17914.b\122812-2_020.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	28-Dec-2012 15:09:23	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	#: 020 Name: 480-0017914-020		
Misc. Info.:			
Operator:	TCHROM	Instrument ID:	IC-2
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	97680	Lims Sample ID:	20
Sublist:	chrom-IC2-300*sub2		
Detector:	Ch-A-122812-2		
Method:	\\Bufchrom\ChromData\IC-2\20121228-17914.b\IC2-300.m		
Last Update:	28-Dec-2012 15:58:26	Calib Date:	21-Dec-2012 13:04:11
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\122112-2_cal_007.d		
Limit Group:	MB 300 ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK003		

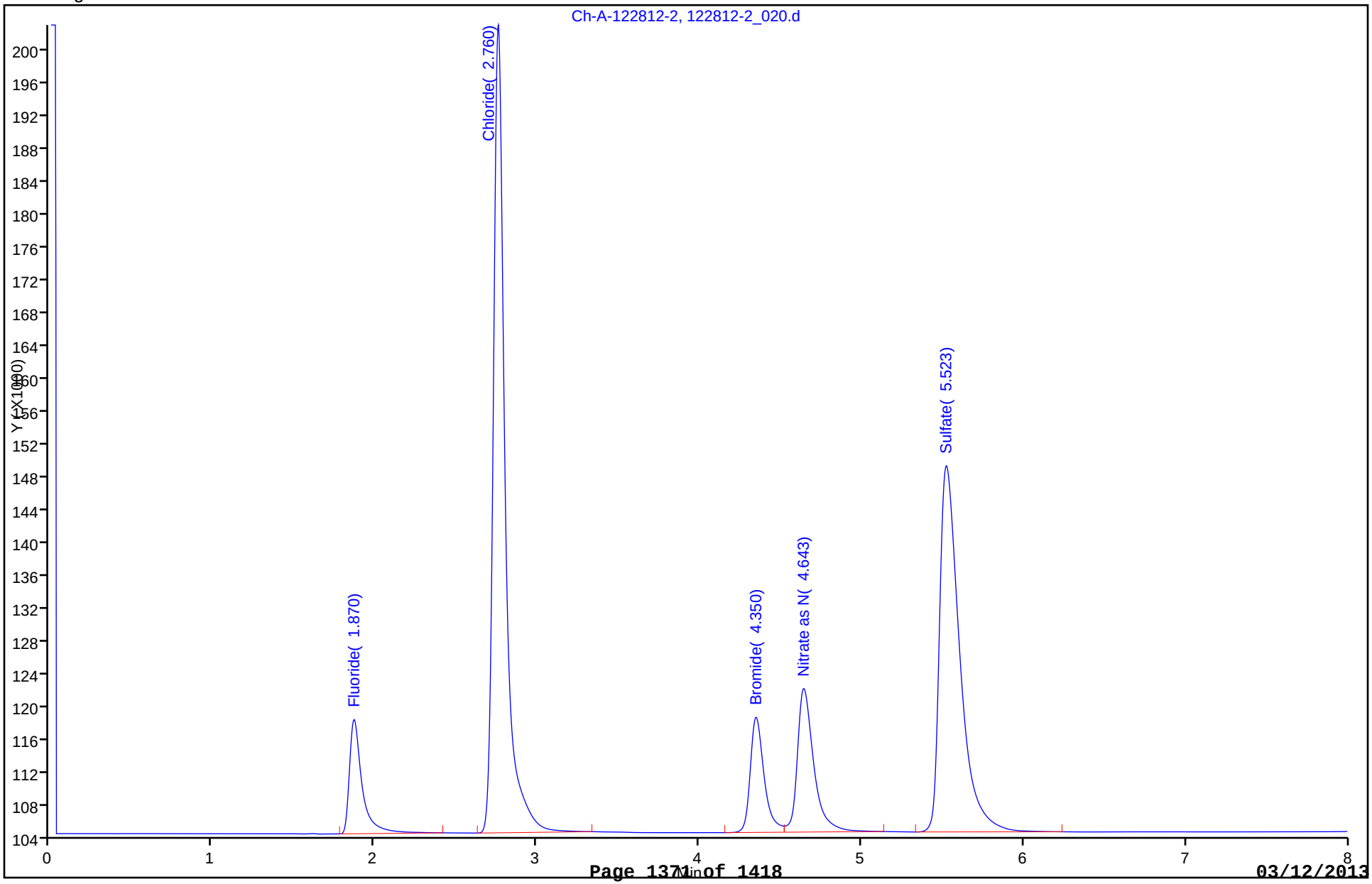
First Level Reviewer: cudneyk Date: 28-Dec-2012 15:58:26

RT	EXP RT	DLT RT	Response	On-Col Amt ng/uL	Flags
4 Fluoride					
1.870	1.870	0.000	76075	2.13	
2 Chloride					
2.760	2.760	0.000	497157	20.2	
1 Bromide					
4.350	4.350	0.000	83707	8.12	
5 Nitrate as N					
4.643	4.643	0.000	123248	1.96	
3 Sulfate					
5.523	5.523	0.000	386126	20.7	

Report Date: 28-Dec-2012 15:58:26 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-2\20121228-17914.b\122812-2_020.d		
Injection Date:	28-Dec-2012 15:09:23	Limit Group:	MB 300 ICAL
Client ID:		Instrument ID:	IC-2
Lims Batch ID:	97680	Lims Sample ID:	20
Operator ID:	TCHROM	Injection Vol:	1.0 ul
Column Type:		Column Dia:	
Y Scaling:			



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\IC-2\20121228-17914.b\122812-2_021.d		
Lims ID:	CCB	Client ID:	
Inject. Date:	28-Dec-2012 15:19:31	Dil. Factor:	1.0000
Sample Type:	CCB		
Sample ID:	#: 021 Name: 480-0017914-021		
Misc. Info.:			
Operator:	TCHROM	Instrument ID:	IC-2
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	97680	Lims Sample ID:	21
Detector:	Ch-A-122812-2		
Method:	\\Bufchrom\ChromData\IC-2\20121228-17914.b\IC2-300.m		
Last Update:	28-Dec-2012 15:58:26	Calib Date:	21-Dec-2012 13:04:11
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Bufchrom\ChromData\IC-2\20121221-17784.b\122112-2_cal_007.d		
Limit Group:	MB 300 ICAL		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK003		

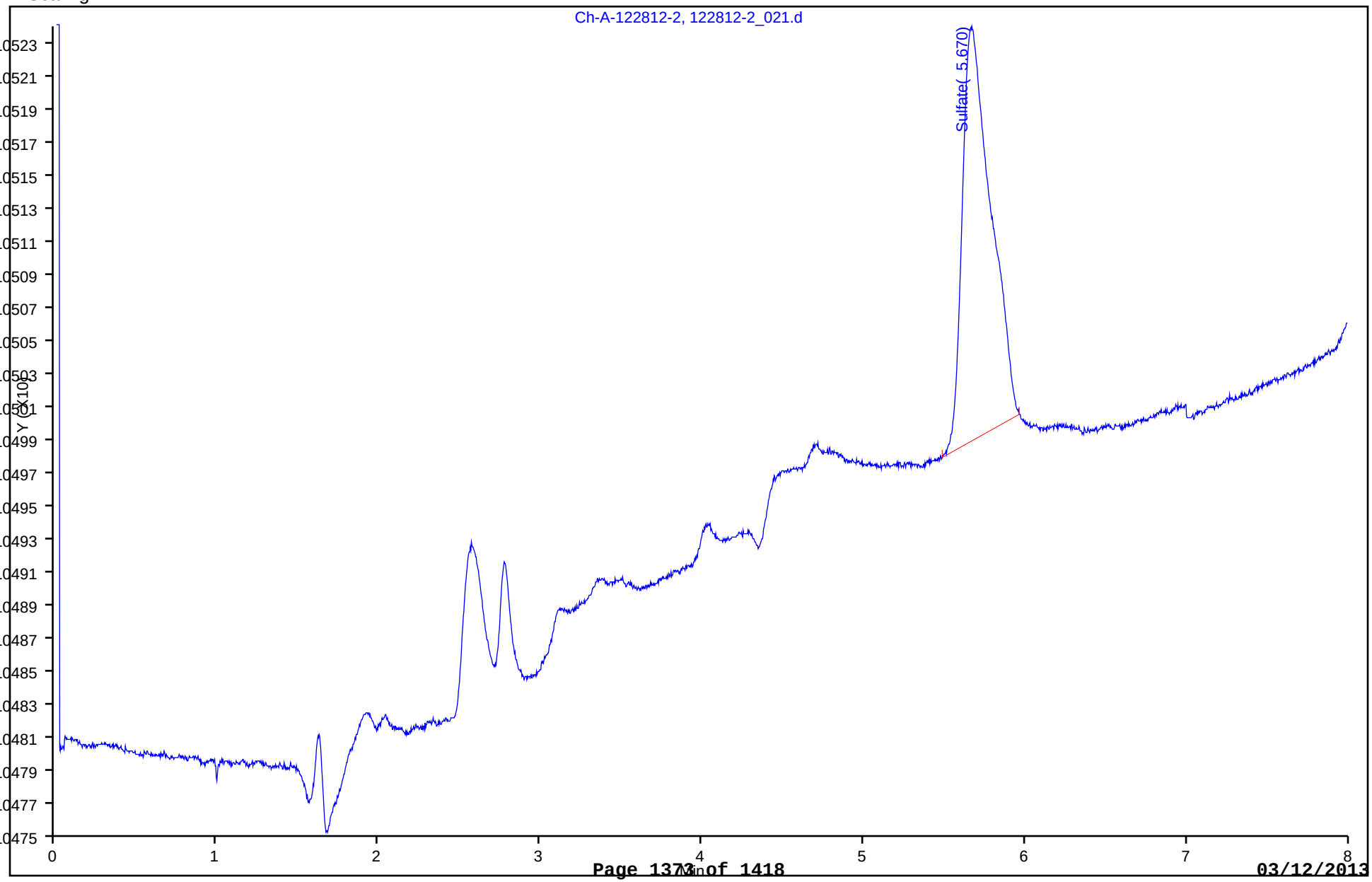
First Level Reviewer: cudneyk Date: 28-Dec-2012 16:01:04

RT	EXP RT	DLT RT	Response	On-Col Amt ng/uL	Flags
3 Sulfate					
5.670	5.523	0.147	3054	0.0360	

Report Date: 28-Dec-2012 16:01:04 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\IC-2\20121228-17914.b\122812-2_021.d		
Injection Date:	28-Dec-2012 15:19:31	Limit Group:	MB 300 ICAL
Client ID:		Instrument ID:	IC-2
Lims Batch ID:	97680	Lims Sample ID:	21
Operator ID:	TCHROM	Injection Vol:	1.0 ul
Column Type:		Column Dia:	
Y Scaling:			



TestAmerica

Data Review Coversheet – Wet Chemistry Dept

Analysis: TOC

Method: 9060

Date of Analytical Run: 12-27-12

Analyst/Primary Reviewer: RDE

Date of Primary Review: 12-28-12

Secondary Reviewer: KAC

Date of Secondary Review: 12/28/12

Prep Batch Number					
Analytical Batch Number	97733				

Criteria for QC	1st Level	2nd Level	n/a	Notes/Comments
Does the calibration meet method requirements? Low point at or below RL, minimum number of calibration points met per SOP. r > or = 0.995	Y	Y		
Was Data Imported ✓ Manually Entered ____ Balance Interface Used				
Were the ICV, CCV and LCS within acceptable limits for QC recovery?				
Were the ICB, CCB and MB all <RL?				
Was there a CCV/CCB combination run after every 10 samples or less?				
Was there an LCS run with every batch of 20 samples or less?				
Was there a DUP, MS or MSD run with every batch of 20 samples or less?				
Were all MS/MSD results within acceptable limits for QC recovery?				
Were all DUP or MSD RPDs within acceptable limits for QC recovery?				
Were the raw data points for samples within the working curve range, or if not were the samples diluted to bring them within this range?				
Are dilution factors all present and correct?				
Do all entries match raw data?				
Were there any holding time violations in this batch?	N	N		NOTE! The PM and QA Manager must be notified by email *immediately* of any holding time violations!!
Are all errors crossed out with single line, initialed and dated?	Y	Y		
Were any NCMs needed in the batch?	N	N		NCM #s:

WC-Data Review Coversheet
Rev 1
September 28, 2011

Instrument: TOC AURORA

		DIL	REPS	pH			DIL	REPS	pH
1	RINSE		4		45	MS		4	<2
2	CCV		4	<2	46	30537-1			
3	CCB				47	100			
4	MBLK				48	2			
5	LCS				49	2 MS			
6	~~30133-1~~ 30735-2				50	CCV			
7	~~2~~ 3				51	CCB			
8	4 - ~~30133~~ 30184				52	MBLK			
9	7				53	LCS			
10	30184-2				54	30537-3			
11	30735-200				55	30347-8			
12	~~3~~ 30274-3				56	9			
13	~~3MS~~ 5MS				57	30449-1			
14	CCV				58	2			
15	CCB				59	200			
16	8 - ~~30133~~ 30194				60	3			
17	9				61	3MS			
18	10				62	CCV			
19	11				63	CCB			
20	30422-1	10X			64	4			
21	2	100X			65	5			
22	~~30794-1~~ 30505-5				66	6			
23	~~100~~ 200				67	7			
24	~~2~~ 8				68	8			
25	~~2MS~~ 6MS				69	9			
26	CCV				70	10			
27	CCB				71	1000			
28	MBLK				72	30734-1			
29	LCS				73	1MS			
30	~~30545-1~~ 30633-2				74	CCV			
31	30184-3	40X			75	CCB			
32	30402-5	4X			76	MBLK			
33	30402-9				77	LCS			
34	30505-7				78	30493-1	200X		
35	100				79	30734-2			
36	8				80	3			
37	8MS				81	4			
38	CCV				82	5			
39	CCB				83	500			
40	30184-1	40X			84	30735-1			
41	30401-1				85	1MS			
42	2				86	CCV			
43	3				87	CCB			
44	4				88				

A

DATE: 12-~~11~~ 27-12

ANALYST: KC's

BATCH #: 97733

LCS=ERA LOT#:

ACTUAL VALUE=

RANGE=

SOLUTIONS: 1015332
1015342
1068548
1071032

pH CHECKED:

ALL Ph < 2.0

DATE OF CURVE: 11/1/12

CURVE RANGE: 0-100 ppm

TOC Aurora Schedule
Rev.0
4/17/12

User ID:toc Name:Total Organic Carbon
Title:Mr Dept:OIC-TOC

Calibration - Quick View -TOC

Revision: 1-110112-020113 - Nov 01, 2012; 09-58-42 AM
Modified By: toc
Date Created: 2012/11/01; 09:58 AM
Last Modified: 2012/12/26; 04:28 PM
Last Calibrated: 2012/12/27; 03:23 PM

RF(ugC/k-cnt): 0.2111
R2: 0.9996
Reagent Blank(cts): 5,576
Offset Area(cts): 11,035
Offset Mass(ugC): -2.33

Std #	Conc (PPM)	Volume (mL)	# Reps	Area	Std. Dev	%RSD	Date Analysed
RW	0.000	2.000	2	8,405	57	0.67	2012-11-01; 11:00AM
1	1.000	2.000	2	17,905	95	0.53	2012-11-01; 11:16AM
2	5.000	2.000	2	57,703	309	0.54	2012-11-01; 11:32AM
3	10.000	2.000	2	108,644	706	0.65	2012-11-01; 11:48AM
4	50.000	2.000	2	491,402	5,251	1.07	2012-11-01; 12:04PM
5	100.000	2.000	2	955,007	20,822	2.18	2012-11-01; 12:20PM

Instrument ID: A547730578 Wet-Chemistry

User ID:toc Name: Total Organic Carbon

Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
2	RINSE	12/27/2012 3:17:41PM	1	8476	0.000	0.000
		12/27/2012 3:23:18PM	2	9285	0.000	0.000
			Avg	8881	0.000	0.000
			Std. Dev	572		
			%RSD	6.44		
3	CCV	12/27/2012 3:37:50PM	1	581447	120.858	60.428
		12/27/2012 3:43:39PM	2	600372	124.853	62.426
		12/27/2012 3:50:50PM	3	600699	124.922	62.461
	104% @ 60 ppm	12/27/2012 3:57:17PM	4	612198	127.349	63.674
			Avg	598679	124.500	62.247
			Std. Dev	12736		
			%RSD	2.13		
4	CCB	12/27/2012 4:07:01PM	1	8714	0.000	0.000
		12/27/2012 4:13:29PM	2	9098	0.046	0.023
		12/27/2012 4:19:52PM	3	8336	0.000	0.000
		12/27/2012 4:25:55PM	4	8594	0.000	0.000
			Avg	8686	0.010	0.006
			Std. Dev	317		
			%RSD	3.65		
5	MB	12/27/2012 4:35:41PM	1	8347	0.000	0.000
		12/27/2012 4:42:16PM	2	9823	0.199	0.100
		12/27/2012 4:48:25PM	3	8356	0.000	0.000
		12/27/2012 4:54:37PM	4	8377	0.000	0.000
			Avg	8726	0.050	0.025
			Std. Dev	732		
			%RSD	8.39		
6	LCS	12/27/2012 5:04:14PM	1	555402	115.360	57.680
		12/27/2012 5:10:44PM	2	599197	124.605	62.302
		12/27/2012 5:16:57PM	3	591069	122.889	61.444
	103% @ 60 ppm	12/27/2012 5:23:24PM	4	622635	129.552	64.775
			Avg	592076	123.100	61.550
			Std. Dev	27872		
			%RSD	4.71		
7	480-30735-M-2	12/27/2012 5:33:01PM	1	46904	7.571	3.786
		12/27/2012 5:39:24PM	2	48850	7.982	3.991
		12/27/2012 5:45:45PM	3	49227	8.062	4.031
		12/27/2012 5:52:12PM	4	48822	7.976	3.988
			Avg	48451	7.900	3.949
			Std. Dev	1047		
			%RSD	2.16		
8	480-30735-L-3	12/27/2012 6:01:52PM	1	37141	5.510	2.755
		12/27/2012 6:08:20PM	2	35911	5.251	2.625
		12/27/2012 6:14:42PM	3	36947	5.470	2.735
		12/27/2012 6:21:02PM	4	36936	5.467	2.734

Instrument ID: A547730578 Wet-Chemistry

User ID:toc Name: Total Organic Carbon

Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
			Avg	36734	5.420	2.712
			Std. Dev	557		
			%RSD	1.52		
9	480-30196-M-6	12/27/2012 6:30:38PM	1	10916	0.000	0.000
		12/27/2012 6:36:56PM	2	10752	0.000	0.000
		12/27/2012 6:43:25PM	3	10624	0.000	0.000
		12/27/2012 6:50:03PM	4	10617	0.000	0.000
			Avg	10727	0.000	0.000
			Std. Dev	140		
			%RSD	1.31		
10	480-30196-P-7	12/27/2012 6:59:47PM	1	13771	0.578	0.289
		12/27/2012 7:05:54PM	2	13618	0.545	0.273
		12/27/2012 7:12:10PM	3	13649	0.552	0.276
		12/27/2012 7:18:33PM	4	13628	0.547	0.274
			Avg	13666	0.560	0.278
			Std. Dev	71		
			%RSD	0.52		
11	480-30186-M-2	12/27/2012 7:29:23PM	1	50811	8.396	4.197
		12/27/2012 7:35:39PM	2	55011	9.282	4.641
		12/27/2012 7:43:01PM	3	56224	9.538	4.769
		12/27/2012 7:49:16PM	4	56523	9.602	4.801
			Avg	54642	9.200	4.602
			Std. Dev	2636		
			%RSD	4.82		
12	du 30735-L-2	12/27/2012 7:58:43PM	1	48082	7.820	3.909
		12/27/2012 8:05:00PM	2	50107	8.247	4.124
		12/27/2012 8:11:27PM	3	49394	8.097	4.048
		12/27/2012 8:17:59PM	4	49236	8.063	4.032
			Avg	49205	8.060	4.028
			Std. Dev	839		
			%RSD	1.71		
13	480-30276-L-5	12/27/2012 8:27:59PM	1	52636	8.781	4.391
		12/27/2012 8:34:33PM	2	56511	9.599	4.800
		12/27/2012 8:40:46PM	3	59237	10.175	5.087
		12/27/2012 8:48:09PM	4	59153	10.157	5.078
			Avg	56884	9.680	4.839
			Std. Dev	3102		
			%RSD	5.45		
14	ms 30276-M-5	12/27/2012 8:57:28PM	1	221247	44.372	22.186
		12/27/2012 9:03:54PM	2	233856	47.033	23.517
		12/27/2012 9:10:13PM	3	243759	49.124	24.562
		12/27/2012 9:16:47PM	4	243173	49.000	24.499

RPD = ~~12%~~ 2%

94% @ 20 ppm

Instrument ID: A547730578 Wet-Chemistry

User ID:toc Name: Total Organic Carbon

Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
			Avg	235509	47.380	23.691
			Std. Dev	10535		
			%RSD	4.47		
15	CCV	12/27/2012 9:26:02PM	1	572765	119.025	59.513
		12/27/2012 9:32:28PM	2	605306	125.894	62.947
		12/27/2012 9:38:43PM	3	596596	124.056	62.028
		12/27/2012 9:45:13PM	4	620971	129.201	64.600
			Avg	598910	124.540	62.272
			Std. Dev	20137		
			%RSD	3.36		
16	CCB	12/27/2012 9:54:54PM	1	8488	0.000	0.000
		12/27/2012 10:01:11PI	2	9498	0.130	0.065
		12/27/2012 10:07:48PI	3	7839	0.000	0.000
		12/27/2012 10:13:53PI	4	8025	0.000	0.000
			Avg	8462	0.030	0.016
			Std. Dev	742		
			%RSD	8.77		
17	480-30196-M-8	12/27/2012 10:23:38PI	1	58076	9.929	4.965
		12/27/2012 10:30:03PI	2	59225	10.172	5.086
		12/27/2012 10:36:19PI	3	60866	10.518	5.259
		12/27/2012 10:42:42PI	4	60131	10.363	5.182
			Avg	59575	10.250	5.123
			Std. Dev	1204		
			%RSD	2.02		
18	480-30196-O-9	12/27/2012 10:52:27PI	1	28157	3.614	1.807
		12/27/2012 10:58:48PI	2	29506	3.899	1.950
		12/27/2012 11:05:10PI	3	29960	3.995	1.997
		12/27/2012 11:11:33PI	4	30069	4.018	2.009
			Avg	29423	3.880	1.941
			Std. Dev	879		
			%RSD	2.99		
19	480-30196-O-10	12/27/2012 11:21:20PI	1	39425	5.993	2.996
		12/27/2012 11:27:39PI	2	42258	6.591	3.295
		12/27/2012 11:34:17PI	3	44041	6.967	3.484
		12/27/2012 11:40:38PI	4	44747	7.116	3.558
			Avg	42618	6.670	3.333
			Std. Dev	2372		
			%RSD	5.57		
20	480-30196-M-11	12/27/2012 11:49:58PI	1	23465	2.624	1.312
		12/27/2012 11:56:25PI	2	23703	2.674	1.337
		12/28/2012 12:02:47AI	3	23108	2.548	1.274
		12/28/2012 12:09:11AI	4	23064	2.539	1.270

104% @ 60 ppm

Instrument ID: A547730578 Wet-Chemistry

User ID:toc Name: Total Organic Carbon

Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
			Avg	23335	2.600	1.298
			Std. Dev	304		
			%RSD	1.30		
21	30422a1@20	12/28/2012 12:18:48AI	1	122162	23.912	11.956
		12/28/2012 12:25:07AI	2	128448	25.238	12.619
		12/28/2012 12:31:35AI	3	128757	25.304	12.652
		12/28/2012 12:37:52AI	4	129739	25.511	12.756
			Avg	127276	24.990	12.496
			Std. Dev	3454		
			%RSD	2.71		
22	30422a2@100	12/28/2012 12:47:41AI	1	103587	19.991	9.996
		12/28/2012 12:54:07AI	2	110452	21.440	10.720
		12/28/2012 1:00:26AM	3	110160	21.378	10.689
		12/28/2012 1:06:50AM	4	111276	21.614	10.807
			Avg	108869	21.110	10.553
			Std. Dev	3552		
			%RSD	3.26		
23	480-30505-P-5	12/28/2012 1:16:29AM	1	87491	16.138	8.069
		12/28/2012 1:22:48AM	2	82559	15.097	7.549
		12/28/2012 1:29:11AM	3	85328	15.682	7.841
		12/28/2012 1:35:34AM	4	82736	15.135	7.567
			Avg	84528	15.510	7.756
			Std. Dev	2346		
			%RSD	2.78		
24	du 30505-Q-5	12/28/2012 1:45:19AM	1	79823	14.520	7.260
		12/28/2012 1:51:40AM	2	82551	15.096	7.548
		12/28/2012 1:58:00AM	3	85804	15.782	7.891
		12/28/2012 2:04:30AM	4	84132	15.429	7.715
			Avg	83077	15.210	7.604
			Std. Dev	2544		
			%RSD	3.06		
25	480-30505-P-6	12/28/2012 2:14:05AM	1	40949	6.314	3.157
		12/28/2012 2:20:25AM	2	41482	6.427	3.213
		12/28/2012 2:26:46AM	3	41259	6.380	3.190
		12/28/2012 2:33:13AM	4	39045	5.912	2.956
			Avg	40684	6.260	3.129
			Std. Dev	1114		
			%RSD	2.74		
26	ms 30505-Q-6	12/28/2012 2:43:01AM	1	209919	41.981	20.990
		12/28/2012 2:49:21AM	2	220840	44.286	22.143
		12/28/2012 2:55:46AM	3	228011	45.800	22.900
		12/28/2012 3:02:12AM	4	235255	47.329	23.664

RPD = 2%

QC1 @ 20 PPM

Instrument ID: A547730578 Wet-Chemistry

User ID:toc Name: Total Organic Carbon

Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed		Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
				Avg	223506	44.850	22.424
				Std. Dev	10802		
				%RSD	4.83		
27	CCV	12/28/2012	3:11:59AM	1	590357	122.739	61.369
		12/28/2012	3:18:19AM	2	618149	128.605	64.303
		12/28/2012	3:24:38AM	3	602367	125.274	62.637
	106% @ 60 ppm	12/28/2012	3:31:04AM	4	625896	130.240	65.120
				Avg	609192	126.710	63.357
				Std. Dev	15923		
				%RSD	2.61		
28	CCB	12/28/2012	3:40:46AM	1	8060	0.000	0.000
		12/28/2012	3:47:05AM	2	9631	0.158	0.079
		12/28/2012	3:53:39AM	3	6956	0.000	0.000
		12/28/2012	3:59:47AM	4	8361	0.000	0.000
				Avg	8252	0.040	0.020
				Std. Dev	1100		
				%RSD	13.33		
29	MB	12/28/2012	4:09:38AM	1	6957	0.000	0.000
		12/28/2012	4:16:08AM	2	8113	0.000	0.000
		12/28/2012	4:22:33AM	3	6996	0.000	0.000
		12/28/2012	4:28:47AM	4	7189	0.000	0.000
				Avg	7314	0.000	0.000
				Std. Dev	542		
				%RSD	7.41		
30	LCS	12/28/2012	4:38:38AM	1	565421	117.475	58.738
		12/28/2012	4:44:59AM	2	601743	125.142	62.571
		12/28/2012	4:51:19AM	3	606626	126.173	63.086
	104% @ 60 ppm	12/28/2012	4:57:48AM	4	626096	130.282	65.141
				Avg	599972	124.770	62.384
				Std. Dev	25322		
				%RSD	4.22		
31	480-30633-L-2	12/28/2012	5:08:00AM	1	55350	9.354	4.677
		12/28/2012	5:14:31AM	2	55645	9.416	4.708
		12/28/2012	5:21:55AM	3	57717	9.854	4.927
		12/28/2012	5:27:59AM	4	56197	9.533	4.766
				Avg	56227	9.540	4.769
				Std. Dev	1054		
				%RSD	1.87		
32	30186a3@40	12/28/2012	5:38:10AM	1	74315	13.812	6.906
		12/28/2012	5:44:32AM	2	79269	14.858	7.429
		12/28/2012	5:50:57AM	3	78233	14.639	7.320
		12/28/2012	5:57:21AM	4	81143	15.253	7.627

Instrument ID: A547730578 Wet-Chemistry

User ID:toc Name: Total Organic Carbon

Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed		Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
				Avg	78240	14.640	7.320
				Std. Dev	2880		
				%RSD	3.68		
33	30402a5@4	12/28/2012	6:07:34AM	1	31560	4.787	2.394
		12/28/2012	6:13:48AM	2	30720	4.610	2.305
		12/28/2012	6:21:04AM	3	29176	4.284	2.142
		12/28/2012	6:27:20AM	4	29180	4.285	2.143
				Avg	30159	4.490	2.246
				Std. Dev	1183		
				%RSD	3.92		
34	480-30402-H-9	12/28/2012	6:37:25AM	1	32904	4.616	2.308
		12/28/2012	6:43:56AM	2	33262	4.692	2.346
		12/28/2012	6:50:02AM	3	32891	4.613	2.307
		12/28/2012	6:57:31AM	4	32357	4.501	2.250
				Avg	32853	4.610	2.303
				Std. Dev	373		
				%RSD	1.14		
35	480-30505-P-7	12/28/2012	7:06:57AM	1	51115	8.460	4.230
		12/28/2012	7:13:22AM	2	49389	8.096	4.048
		12/28/2012	7:19:46AM	3	51892	8.624	4.312
		12/28/2012	7:26:17AM	4	49813	8.185	4.093
				Avg	50552	8.340	4.171
				Std. Dev	1156		
				%RSD	2.29		
36	du 30505-Q-7	12/28/2012	7:36:02AM	1	51671	8.578	4.289
		12/28/2012	7:42:29AM	2	49633	8.147	4.074
		12/28/2012	7:48:42AM	3	51039	8.444	4.222
RPD = 0%		12/28/2012	7:55:17AM	4	50470	8.324	4.161
				Avg	50703	8.370	4.186
				Std. Dev	866		
				%RSD	1.71		
37	480-30505-P-8	12/28/2012	8:05:02AM	1	51134	8.464	4.232
		12/28/2012	8:11:25AM	2	51240	8.486	4.243
		12/28/2012	8:17:45AM	3	50959	8.427	4.214
		12/28/2012	8:24:14AM	4	48478	7.904	3.952
				Avg	50453	8.320	4.160
				Std. Dev	1321		
				%RSD	2.62		
38	ms 30505-Q-8	12/28/2012	8:34:05AM	1	228665	45.937	22.969
		12/28/2012	8:40:26AM	2	234592	47.189	23.594
		12/28/2012	8:46:52AM	3	240311	48.396	24.198
98% @ 20 PPM		12/28/2012	8:53:17AM	4	240467	48.429	24.214

Instrument ID: A547730578 Wet-Chemistry

User ID:toc Name: Total Organic Carbon

Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
			Avg	236009	47.490	23.744
			Std. Dev	5607		
			%RSD	2.38		
39	CCV	12/28/2012 9:03:04AM	1	578967	120.335	60.167
		12/28/2012 9:09:26AM	2	605823	126.003	63.002
		12/28/2012 9:15:45AM	3	595269	123.776	61.888
		12/28/2012 9:22:12AM	4	605900	126.020	63.010
	1031 @ 50 ppm		Avg	596490	124.030	62.017
			Std. Dev	12704		
			%RSD	2.13		
40	CCB	12/28/2012 9:32:14AM	1	8978	0.021	0.010
		12/28/2012 9:38:22AM	2	9754	0.184	0.092
		12/28/2012 9:44:55AM	3	7915	0.000	0.000
		12/28/2012 9:51:14AM	4	8991	0.023	0.012
			Avg	8910	0.060	0.029
			Std. Dev	756		
			%RSD	8.48		
41	30186a1@40	12/28/2012 10:01:01AI	1	257755	52.533	26.266
		12/28/2012 10:07:23AI	2	270254	55.171	27.586
		12/28/2012 10:13:36AI	3	275963	56.376	28.188
		12/28/2012 10:20:08AI	4	283708	58.011	29.005
			Avg	271920	55.520	27.761
			Std. Dev	10935		
			%RSD	4.02		
42	30406a1	12/28/2012 10:29:55AI	1	62636	10.892	5.445
		12/28/2012 10:36:35AI	2	64744	11.337	5.669
		12/28/2012 10:42:45AI	3	65525	11.502	5.751
		12/28/2012 10:49:13AI	4	66611	11.731	5.866
			Avg	64879	11.370	5.683
			Std. Dev	1680		
			%RSD	2.59		
43	30406a2	12/28/2012 10:59:13AI	1	39020	5.907	2.954
		12/28/2012 11:06:16AI	2	41501	6.431	3.215
		12/28/2012 11:12:04AI	3	41637	6.460	3.230
		12/28/2012 11:19:21AI	4	42577	6.658	3.329
			Avg	41184	6.360	3.182
			Std. Dev	1520		
			%RSD	3.69		
44	30406a3	12/28/2012 11:29:07AI	1	54176	9.106	4.553
		12/28/2012 11:35:29AI	2	56591	9.616	4.807
		12/28/2012 11:41:52AI	3	56251	9.544	4.772
		12/28/2012 11:48:21AI	4	56866	9.674	4.837

TestAmerica TOC Reporter 12-28-2012 03:02 PM

Instrument ID: A547730578 Wet-Chemistry

User ID:toc Name: Total Organic Carbon

Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
			Avg	55971	9.490	4.742
			Std. Dev	1223		
			%RSD	2.18		
45	30406a4	12/28/2012 11:58:16Al	1	48949	8.003	4.002
		12/28/2012 12:05:10Pl	2	49742	8.170	4.085
		12/28/2012 12:11:03Pl	3	48412	7.890	3.945
		12/28/2012 12:18:35Pl	4	49907	8.205	4.103
			Avg	49253	8.070	4.034
			Std. Dev	699		
			%RSD	1.42		
46	mb	12/28/2012 12:28:44Pl	1	10277	0.000	0.000
		12/28/2012 12:34:56Pl	2	11374	0.072	0.036
		12/28/2012 12:41:25Pl	3	8856	0.000	0.000
		12/28/2012 12:47:49Pl	4	9543	0.000	0.000
			Avg	10013	0.020	0.009
			Std. Dev	1078		
			%RSD	10.76		
47	30537a1	12/28/2012 12:57:47Pl	1	14230	0.674	0.337
		12/28/2012 1:04:17PM	2	13210	0.459	0.230
		12/28/2012 1:10:40PM	3	11501	0.098	0.049
		12/28/2012 1:17:08PM	4	12958	0.406	0.203
			Avg	12975	0.410	0.205
			Std. Dev	1126		
			%RSD	8.68		
48	du 30537a1	12/28/2012 1:26:52PM	1	14982	0.833	0.417
		12/28/2012 1:33:22PM	2	15045	0.846	0.423
		12/28/2012 1:39:56PM	3	14131	0.653	0.327
	RPD = ND	12/28/2012 1:46:32PM	4	13964	0.618	0.309
			Avg	14531	0.740	0.369
			Std. Dev	562		
			%RSD	3.87		
49	30537a2	12/28/2012 1:56:42PM	1	20103	1.914	0.957
		12/28/2012 2:03:04PM	2	15158	0.870	0.435
		12/28/2012 2:09:37PM	3	14402	0.711	0.355
		12/28/2012 2:16:07PM	4	14757	0.786	0.393
			Avg	16105	1.070	0.535
			Std. Dev	2683		
			%RSD	16.66		
50	ms 30537a2	12/28/2012 2:26:02PM	1	200403	39.972	19.986
		12/28/2012 2:32:43PM	2	211975	42.415	21.207
	104% @ 20 ppm	12/28/2012 2:39:07PM	3	217644	43.611	21.806
		12/28/2012 2:45:43PM	4	222001	44.531	22.266

Instrument ID: A547730578 Wet-Chemistry

User ID:toc Name: Total Organic Carbon

Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed		Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
				Avg	213006	42.630	21.316
				Std. Dev	9351		
				%RSD	4.39		
51	CCV	12/28/2012	2:55:42PM	1	604865	125.801	62.901
		12/28/2012	3:02:18PM	2	599632	124.696	62.348
	104% @ 60 ppm	12/28/2012	3:08:45PM	3	596741	124.086	62.043
		12/28/2012	3:15:21PM	4	608110	126.486	63.242
				Avg	602337	125.270	62.634
				Std. Dev	5110		
				%RSD	0.85		
52	CCB	12/28/2012	3:25:11PM	1	7427	0.000	0.000
		12/28/2012	3:31:44PM	2	8863	0.000	0.000
		12/28/2012	3:38:26PM	3	7502	0.000	0.000
		12/28/2012	3:44:41PM	4	7762	0.000	0.000
				Avg	7889	0.000	0.000
				Std. Dev	665		
				%RSD	8.43		

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Coversheet—Inorganics Dept

Method Name: pH Method Reference: 9045C Date of Analytical Run: 12-18-12

Primary Reviewer's Initials & Date: RME 12-20-12 Secondary Reviewer's Initials & Date: GRB 12-21-12

Batch Numbers	97429				

QC Criteria—Non-MCP: ICV/CCV ±10%: LCS/LCSD ±15%: MS/MSD ±25%: ICB/MB/CCB <RL: MD/MSD/LCSD RPD ≤20%

QC Criteria—MCP/RCP: (9012 and 7196 only)
9012 (water): ICV/CCV ±15%: LCS/LCSD ±20%: MS/MSD ±25%: ICB/MB/CCB <RL: MD/MSD/LCSD RPD ≤20%
9012 (soil): ICV/CCV ±15%: LCS/LCSD **: MS/MSD ±25%: ICB/MB/CCB <RL: MD RPD 35%: MSD/LCSD RPD ≤30%
7196 (water): ICV/CCV ±15%: LCS/LCSD ±20%: MS/MSD ±25%: ICB/MB/CCB <RL: MD/MSD/LCSD RPD ≤20%
7196 (soil): ICV/CCV ±15%: LCS/LCSD **: MSS/MSI ±25%: ICB/MB/CCB <RL: MD RPD ≤35%: LCSD RPD ≤30%

FAILURES OF QC FOR ANYTHING OTHER THAN MS, MSD or MD ARE GROUNDS FOR INVALIDATING THE BATCH.

Criteria for QC	Yes	No	n/a	Notes/Comments
Were the ICV and/or CCVs within acceptable limits for QC recovery?	✓			
Were the ICB and/or CCBs all <RL?			✓	
Were all MB and/or CCB results <RL for the analytes of interest?			✓	
Was there a CCV/CCB combination run after every 10 samples or less?	✓			
Was there an LCS run with every batch of 20 samples or less?	✓			
Was there a MD, LCSD and/or MSD run with every batch of 20 samples or less?	✓			
Were all LCS/LCSD results within acceptable limits for QC recovery?	✓			
Were all MS/MSD results within acceptable limits for QC recovery?			✓	
Were all MD, LCSD and/or MSD %RPDs within acceptable limits for QC recovery?	✓			
Were the raw data points for investigative samples within the working curve range, or if not, were the samples diluted to bring them within this range?			✓	
IF there were any MCP/RCP samples in this batch, did they meet all MCP/RCP requirements?	✓			
Were there any holding time violations in this batch?		✓	✓	**NOTE!** The PM and QA Manager must be notified by email *immediately* of any holding time violations!! GRB 12-21-12
Were any NCMs generated for any samples in the batch? (If so, list NCM numbers, and first-reviewer must check off any "No" answers above as applicable.)		✓		
Were any jobs in this batch Level 4? If "Yes" then scan all raw data & place in correct scan folder on the public drive before filing this paperwork.	✓			

** LCS or LCSD must produce a recovery that is within the manufacturer's specified 95% confidence limits, must be matrix matched.

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 360-97427 | Analyst: Benoit, Gary R | Batch Open: 12/18/2012 9:45:00AM

Method Code: 360-DI_LEACH-360 | Batch End:

Deionized Water Leaching Procedure

	Input Sample Lab ID (Analytical Method)	SDG	Matrix	Initial Amount	Final Amount	Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
1	LCS~360-97427/1 N/A	N/A		20 g	20 mL	N/A	N/A	N/A		LCS 360-97427/1-A
2	480-30406-C-1 (9045C)	N/A	Solid	20 g	20 mL	12/31/12	9_Days - R	4		480-30406-C-1-A
3	480-30406-C-2 (9045C)	N/A	Solid	20 g	20 mL	12/31/12	9_Days - R	4		480-30406-C-2-A
	480-30406-C-3 (9045C)	N/A	Solid	20 g	20 mL	12/31/12	9_Days - R	4		480-30406-C-3-B
	480-30406-C-4 (9045C)	N/A	Solid	20 g	20 mL	12/31/12	9_Days - R	4		480-30406-C-4-B
	480-30406-C-4~DU (9045C)	N/A	Solid	20 g	20 mL	12/31/12	9_Days - R	4		480-30406-C-4-C DU

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 360-97427 | Analyst: Benoit, Gary R | Batch Open: 12/18/2012 9:45:00AM

Method Code: 360-DI_LEACH-360 | Batch End:

Batch Notes

Balance ID

Blank Soil Lot Number

Batch Comment

Comments

Login Comments for Job 30406: MCP/Level 4 stand alone(12/18/12); L4Reviewed:
~Sub methods:2580B, 7199, 9045C, NDMA_CIMS_IDA.~

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 360-97427 Analyst: Benoit, Gary R Batch Open: 12/18/2012 9:45:00AM

Method Code: 360-DI_LEACH-360 Batch End:

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
LCS 360-97427/1	W12H_PH_6_00001	20 mL	20 mL		

Other Reagents:

Reagent	Amount/Units	Lot#:

TestAmerica Westfield
Westfield Executive Park 53 Southampton Road
Westfield, MA 01085
Phone (413) 572-4000 Fax (413) 572-3707

Boston Service Center
240 Bear Hill Rd. Suite 104
Waltham, MA 02451
Phone (781) 466-6900 Fax (781) 466-6901

480-30406

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information			
Client Contact: David Chapman	Sampler: David Chapman	Lab PM: Becky Mason	Carrier Tracking No(s):
Company: AMEC	Phone: 339-927-3793	E-Mail:	COC No: 22210
Address: 2 Robbins Rd	Due Date Requested: Standard		Page: ~~2 of 2~~ 1 of 1
City: Westford	TAT Requested (days): Standard		Job #:
State, Zip: MA 01886			
Phone: 978-692-9090	Quote #:		
Email: David.chapman@amec.com	PO #:		
Project Name/number: clin. Wilmington / 6107120016	WO #:		
Site: clin. Wilmington	SSOW#:		

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Sampler's Initials	Field Filtered Sample?	Perform MS/MSD?	VOCs 8260B	SVOCs 8270C Low Level	NDMA Med - EPA 521	Metals SW 846 6010B	Hexcr SW-846 7199	Ammonia LACHAT 10-107-06-1-A	Chloride EPA 300	Sulfate EPA 300	TOC EPA 300	10#	Total Number of containers	Special Instructions/Note:
			Preservation Code:																
503 C-SD-SD-~~SC1A~~-XXX	12-17-12	15:30 ~~12:15~~	C	S	PC NO	N	N	3	1	1	1	2	1	1	1	1	C	1	9
504 C-SD-SD-~~SC1B~~-XXX	12-17-12	~~14:30~~	C	S	PC NO	N	N	3	1	1	1	2	1	1	1	1	C	2	9
501 C-SD-SD-~~SC2A~~-XXX	12-17-12	15:00 ~~14:50~~	C	S	PC NO	N	N	3	1	1	1	2	1	1	1	1	C	3	9
502 C-SD-SD-~~SC2B~~-XXX	12-17-12	12:45	C	S	PC NO	N	N	3	1	1	1	2	1	1	1	1	C	4	9

See Becky Mason w/ questions

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

Special Instructions/QC Requirements:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
David Chapman	12-17-12 / 16:30	AMEC		12-17-12 1630	
	12-17-12 1850			12/17/12 1850	TA
	12/18/12 1700	TA			

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.2 0.92 ICE

TAL-8245-360 1111

30406

TestAmerica WESTFIELD

SANITARY CHEMICAL ANALYSIS

Analyst: GRB

Date: 12-18-12

pg 1 of 2

Instruments: Accumet 20 (Installed July 1998; New) Monitek 21 (Installed August 1996; New)

pH	SM 4500H+/EPA 9040/EPA 9045C
Color	SM 2120B
Odor	SM 2150B
ORP	SM2580B

SAMPLE ID #	Time of Analysis	sample weight (g)	pH Analysis		ORP	Color			Odor	comments
			Temp °C	pH (SU)	ORP (mV)	Dilution Factor (DF)	Observed Dil'd Color (C)	Color (units) [=DF x C]	TON	
W12H - PH6 pH6 LCS	1044	—	20.2°	5.95						
W12L ORP LCS ORP LCS	1038	—			476					
501-A (1) 480-30406 C1	1045	20	20.3°	6.98	~~0~~	-32				
502-A (2) 480-30406 C2	1049		20.2°	6.99	~~0~~	-31				
501B (3) 480-30406 C3	1053		19.9°	7.32	~~0~~	-31				
502B (4) 480-30406 C4	1057		20.1°	7.23	~~0~~	-32				
502B-DUP (5) 480-30406 C4 DU	1101		19.9°	7.29	~~0~~	-32				
W. Sprfld.-Con Edison 480-30454B1	1149	—	17.2°	8.21						
W. Sprfld.-Agri-mark 480-30455B1	1153	—	16.6°	6.34						
Solutia-Manhole C-561 480-30503G2	1228	—	18.9°	6.63						
Solutia-Manhole C-573 480-30503G3	1234	—	18.8°	6.72						
Solutia-outfall 615 480-30503G4	1241	—	19.1°	6.67						

pH Meter Calibration: Date & Time Calibrated: 12-18-12 1042 Analyst Initials: GRB Meter Slope = 99.4

Buffer Lot Numbers (Fisher Sci.): pH 4.00 = 120141 pH 7.00 = 114197 pH 10.01 = 114767

TestAmerica WESTFIELD

SANITARY CHEMICAL ANALYSIS

Analyst: GRD

Date: 12-18-12

Pg. 2 of 2

Instruments: Accumet 20 (Installed July 1998; New) Monitek 21 (Installed August 1996; New)

pH	SM 4500H+/EPA 9040/EPA 9045C
Color	SM 2120B
Odor	SM 2150B
ORP	SM2580B

SAMPLE ID #	Time of Analysis	sample weight (g)	pH Analysis		ORP	Color			Odor	comments
			Temp °C	pH (SU)	ORP (mV)	Dilution Factor (DF)	Observed Dil'd Color (C)	Color (units) [=DF x C]	TON	
pH CCV 6.0	1215	—	20.3°	5.97						
Solution - River 480-30503 E1	1254	—	19.7°	6.65						
River - dup	1303	—	20.1°	6.71						
pH CCV 6.0	1701	—	20.5°	5.96						

pH Meter Calibration: Date & Time Calibrated: _____ Analyst Initials: _____ Meter Slope = _____

Buffer Lot Numbers (Fisher Sci.): pH 4.00 = _____ pH 7.00 = _____ pH 10.01 = _____

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Coversheet—Inorganics Dept

Method Name: ORP Method Reference: 2580B Date of Analytical Run: 12-18-12

Primary Reviewer's Initials & Date: LWE 12-20-12 Secondary Reviewer's Initials & Date: GRB 12-21-12

Batch Numbers	97430				

QC Criteria—Non-MCP: ICV/CCV ±10%: LCS/LCSD ±15%: MS/MSD ±25%: ICB/MB/CCB <RL: MD/MSD/LCSD RPD ≤20%

QC Criteria—MCP/RCP: (9012 and 7196 only)
9012 (water): ICV/CCV ±15%: LCS/LCSD ±20%: MS/MSD ±25%: ICB/MB/CCB <RL: MD/MSD/LCSD RPD ≤20%
9012 (soil): ICV/CCV ±15%: LCS/LCSD **: MS/MSD ±25%: ICB/MB/CCB <RL: MD RPD 35%: MSD/LCSD RPD ≤30%
7196 (water): ICV/CCV ±15%: LCS/LCSD ±20%: MS/MSD ±25%: ICB/MB/CCB <RL: MD/MSD/LCSD RPD ≤20%
7196 (soil): ICV/CCV ±15%: LCS/LCSD **: MSS/MSI ±25%: ICB/MB/CCB <RL: MD RPD ≤35%: LCSD RPD ≤30%

FAILURES OF QC FOR ANYTHING OTHER THAN MS, MSD or MD ARE GROUNDS FOR INVALIDATING THE BATCH.

Criteria for QC	Yes	No	n/a	Notes/Comments
Were the ICV and/or CCVs within acceptable limits for QC recovery?			✓	
Were the ICB and/or CCBs all <RL?			✓	
Were all MB and/or CCB results <RL for the analytes of interest?			✓	
Was there a CCV/CCB combination run after every 10 samples or less?			✓	
Was there an LCS run with every batch of 20 samples or less?	✓			
Was there a MD, LCSD and/or MSD run with every batch of 20 samples or less?	✓			
Were all LCS/LCSD results within acceptable limits for QC recovery?	✓			
Were all MS/MSD results within acceptable limits for QC recovery?			✓	
Were all MD, LCSD and/or MSD %RPDs within acceptable limits for QC recovery?	✓			
Were the raw data points for investigative samples within the working curve range, or if not, were the samples diluted to bring them within this range?			✓	
IF there were any MCP/RCP samples in this batch, did they meet all MCP/RCP requirements?	✓			
Were there any holding time violations in this batch?		✓		**NOTE!** The PM and QA Manager must be notified by email *immediately* of any holding time violations!!
Were any NCMs generated for any samples in the batch? (If so, list NCM numbers, and first-reviewer must check off any "No" answers above as applicable.)	✓			56597
Were any jobs in this batch Level 4? If "Yes" then scan all raw data & place in correct scan folder on the public drive before filing this paperwork.	✓			

** LCS or LCSD must produce a recovery that is within the manufacturer's specified 95% confidence limits, must be matrix matched.

TestAmerica WESTFIELD

SANITARY CHEMICAL ANALYSIS

Analyst: GRB

Date: 12-18-12

pg 1 of 2

Instruments: Accumet 20 (Installed July 1998; New) Monitek 21 (Installed August 1996; New)

pH	SM 4500H+/EPA 9040/EPA 9045C
Color	SM 2120B
Odor	SM 2150B
ORP	SM2580B

SAMPLE ID #	Time of Analysis	sample weight (g)	pH Analysis		ORP	Color			Odor	comments
			Temp °C	pH (SU)	ORP (mV)	Dilution Factor (DF)	Observed Dil'd Color (C)	Color (units) [=DF x C]	TON	
W12H - PH6 pH6 LCS	1044	—	20.2°	5.95						
W12L ORP LCS ORP LCS	1038	—			476					
501-A (1) 480-30406 C1	1045	20	20.3°	6.98	Ø	-32				
502-A (2) 480-30406 C2	1049		20.2°	6.99	Ø	-31				
501B (3) 480-30406 C3	1053		19.9°	7.32	Ø	-31				
502B (4) 480-30406 C4	1057		20.1°	7.23	Ø	-32				
502B-DUP (5) 480-30406 C4 DU	1101		19.9°	7.29	Ø	-32				
W. Sprfld. Con Edison 480-30454B1	1149	—	17.2°	8.21						
W. Sprfld. - Apri-mart 480-30455B1	1153	—	16.6°	6.34						
Solutia - Manhole C-561 480-30503G2	1228	—	18.9°	6.63						
Solutia - Manhole C-573 480-30503G3	1234	—	18.8°	6.72						
Solutia - outfall 615 480-30503G4	1241	—	19.1°	6.67						

pH Meter Calibration: Date & Time Calibrated: 12-18-12 1042 Analyst Initials: GRB Meter Slope = 99.4

Buffer Lot Numbers (Fisher Sci.): pH 4.00 = 120141 pH 7.00 = 114197 pH 10.01 = 114767

TestAmerica WESTFIELD

SANITARY CHEMICAL ANALYSIS

Analyst: GRD

Date: 12-18-12

Pg. 2 of 2

pH	SM 4500H+/EPA 9040/EPA 9045C
Color	SM 2120B
Odor	SM 2150B
ORP	SM2580B

Instruments: Accumet 20 (Installed July 1998; New) Monitek 21 (Installed August 1996; New)

SAMPLE ID #	Time of Analysis	sample weight (g)	pH Analysis		ORP	Color			Odor	comments
			Temp °C	pH (SU)	ORP (mV)	Dilution Factor (DF)	Observed Dil'd Color (C)	Color (units) [=DF x C]	TON	
pH CCV 6.0	1245	—	20.3°	5.97						
Solution - River 480-30503 E1	1254	—	19.7°	6.65						
River - dup	1303	—	20.1°	6.71						
pH CCV 6.0	1701	—	20.5°	5.96						

pH Meter Calibration: Date & Time Calibrated: _____ Analyst Initials: _____ Meter Slope = _____

Buffer Lot Numbers (Fisher Sci.): pH 4.00 = _____ pH 7.00 = _____ pH 10.01 = _____

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 360-97428 | Analyst: Benoit, Gary R | Batch Open: 12/18/2012 9:45:00AM

Method Code: 360-DI_LEACH-360 | Batch End:

Deionized Water Leaching Procedure

	Input Sample Lab ID (Analytical Method)	SDG	Matrix	Initial Amount	Final Amount	Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
1	LCS~360-97428/1 N/A	N/A		20 g	20 mL	N/A	N/A	N/A		LCS 360-97428/1-A
2	480-30406-C-1 (2580B)	N/A	Solid	20 g	20 mL	12/31/12	9_Days - R	4		480-30406-C-1-B
3	480-30406-C-2 (2580B)	N/A	Solid	20 g	20 mL	12/31/12	9_Days - R	4		480-30406-C-2-B
	480-30406-C-3 (2580B)	N/A	Solid	20 g	20 mL	12/31/12	9_Days - R	4		480-30406-C-3-C
	480-30406-C-4 (2580B)	N/A	Solid	20 g	20 mL	12/31/12	9_Days - R	4		480-30406-C-4-D
	480-30406-C-4~DU (2580B)	N/A	Solid	20 g	20 mL	12/31/12	9_Days - R	4		480-30406-C-4-E DU

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 360-97428 | Analyst: Benoit, Gary R | Batch Open: 12/18/2012 9:45:00AM

Method Code: 360-DI_LEACH-360 | Batch End:

Batch Notes

Balance ID

Blank Soil Lot Number

Batch Comment

Comments

Login Comments for Job 30406: MCP/Level 4 stand alone(12/18/12); L4Reviewed:
~Sub methods:2580B, 7199, 9045C, NDMA_CIMS_IDA.~

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 360-97428 | Analyst: Benoit, Gary R | Batch Open: 12/18/2012 9:45:00AM

Method Code: 360-DI_LEACH-360 | Batch End:

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
LCS 360-97428/1	W12L_ORP_LCS_00001	20 mL	20 mL		

Other Reagents:

Reagent	Amount/Units	Lot#:

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Batch Number: 96922 Batch Start Date: 12/20/12 16:36 Batch Analyst: Leader, Michael

Batch Method: D3987-85 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
MB 480-96922/3		D3987-85, 350.1		5 g	100 mL				

Batch Notes	

Basis	Basis Description
Y	ASTM Leach

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

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Batch Number: 96922 Batch Start Date: 12/20/12 16:36 Batch Analyst: Leader, Michael

Batch Method: D3987-85 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
480-30406-C-1	OC-SD-SD-503-XXX	D3987-85, Distill/Ammonia, 350.1	Y	5.0831 g	100 mL				
480-30406-C-2	OC-SD-SD-504-XXX	D3987-85, Distill/Ammonia, 350.1	Y	5.1248 g	100 mL				
480-30406-E-3	OC-SD-SD-501-XXX	D3987-85, Distill/Ammonia, 350.1	Y	5.2051 g	100 mL				
480-30406-E-4	OC-SD-SD-502-XXX	D3987-85, Distill/Ammonia, 350.1	Y	5.0594 g	100 mL				

Batch Notes	

Basis	Basis Description
Y	ASTM Leach

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

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Batch Number: 97203 Batch Start Date: 12/22/12 18:22 Batch Analyst: Shantz, Katelyn

Batch Method: Distill/Ammonia Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WC_NH3_STD 00007			
LCS 480-97203/1		Distill/Ammonia, 350.1		50 mL	50 mL	0.05 mL			
MB 480-97203/2		Distill/Ammonia, 350.1		50 mL	50 mL				
480-30406-C-1-C	OC-SD-SD-503-XXX	Distill/Ammonia, 350.1	Y	50 mL	50 mL				
480-30406-C-2-C	OC-SD-SD-504-XXX	Distill/Ammonia, 350.1	Y	50 mL	50 mL				
480-30406-E-3-A	OC-SD-SD-501-XXX	Distill/Ammonia, 350.1	Y	50 mL	50 mL				
480-30406-E-4-A	OC-SD-SD-502-XXX	Distill/Ammonia, 350.1	Y	50 mL	50 mL				

Batch Notes	

Basis	Basis Description
Y	ASTM Leach

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

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Batch Number: 97353 Batch Start Date: 12/26/12 07:56 Batch Analyst: Shantz, Katelyn

Batch Method: 350.1 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	CalcMsg	WC_NH3_STD 00007		
CCV 480-97353/1		350.1		5 mL	5 mL	OK	0.005 mL		
CCB 480-97353/2		350.1		5 mL	5 mL	OK			
LCS 480-97203/1-A		350.1		5 mL	5 mL	OK			
MB 480-97203/2-A		350.1		5 mL	5 mL	OK			
CCV 480-97353/13		350.1		5 mL	5 mL	OK	0.005 mL		
CCB 480-97353/14		350.1		5 mL	5 mL	OK			
480-30406-C-1-E	OC-SD-SD-503-XXX	350.1	Y	5 mL	5 mL	OK			
480-30406-C-2-E	OC-SD-SD-504-XXX	350.1	Y	5 mL	5 mL	OK			
480-30406-E-3-C	OC-SD-SD-501-XXX	350.1	Y	5 mL	5 mL	OK			
480-30406-E-4-C	OC-SD-SD-502-XXX	350.1	Y	5 mL	5 mL	OK			
CCV 480-97353/25		350.1		5 mL	5 mL	OK	0.005 mL		
CCB 480-97353/26		350.1		5 mL	5 mL	OK			
CCV 480-97353/49		350.1		5 mL	5 mL	OK	0.005 mL		
CCB 480-97353/50		350.1		5 mL	5 mL	OK			
MB 480-96922/3-A		350.1		5 mL	5 mL	OK			
CCV 480-97353/60		350.1		5 mL	5 mL	OK	0.005 mL		
CCB 480-97353/61		350.1		5 mL	5 mL	OK			

Batch Notes	
Perform Calculation (0=No, 1=Yes)	1

Basis	Basis Description
Y	ASTM Leach

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

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Batch Number: 97092 Batch Start Date: 12/21/12 12:03 Batch Analyst: Clark, Kyra

Batch Method: 300.0 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	IC_ANION_STK_00011				
STD1 480-97092/2		300.0		1 mL	50 uL				
STD2 480-97092/3		300.0		1 mL	100 uL				
STD3 480-97092/4		300.0		1 mL	500 uL				
STD4 480-97092/5		300.0		1 mL	2 mL				
STD5 480-97092/6		300.0		1 mL	5 mL				
STD6 480-97092/7		300.0		1 mL	5 mL				

Batch Notes	

Basis	Basis Description

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

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Batch Number: 97670 Batch Start Date: 12/28/12 10:17 Batch Analyst: Cudney, Kevin A

Batch Method: DI Leach Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	IC_ANION_STK_00011			
LCS 480-97670/1		DI Leach, 300.0		5.86 g	50 mL	1 mL			
MB 480-97670/2		DI Leach, 300.0		5.1 g	50 mL				
480-30406-A-1	OC-SD-SD-503-XXX	DI Leach, 300.0	S	5.71 g	50 mL				
480-30406-A-2	OC-SD-SD-504-XXX	DI Leach, 300.0	S	5.44 g	50 mL				
480-30406-A-3	OC-SD-SD-501-XXX	DI Leach, 300.0	S	5.7 g	50 mL				
480-30406-A-4	OC-SD-SD-502-XXX	DI Leach, 300.0	S	5.07 g	50 mL				

Batch Notes	

Basis	Basis Description
S	Soluble

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

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Batch Number: 97680 Batch Start Date: 12/28/12 11:55 Batch Analyst: Cudney, Kevin A

Batch Method: 300.0 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	IC_ANION_LCS_00012				
CCV 480-97680/1		300.0		1 mL	5 mL				
CCB 480-97680/2		300.0		1 mL					
LCS 480-97670/1-A		300.0		1 mL					
MB 480-97670/2-A		300.0		1 mL					
480-30406-A-1-B	OC-SD-SD-503-XXX	300.0	S	1 mL					
480-30406-A-2-B	OC-SD-SD-504-XXX	300.0	S	1 mL					
480-30406-A-3-B	OC-SD-SD-501-XXX	300.0	S	1 mL					
480-30406-A-4-B	OC-SD-SD-502-XXX	300.0	S	1 mL					
CCV 480-97680/13		300.0		1 mL	5 mL				
CCB 480-97680/14		300.0		1 mL					
480-30406-A-2-B	OC-SD-SD-504-XXX	300.0	S	1 mL					
CCV 480-97680/20		300.0		1 mL	5 mL				
CCB 480-97680/21		300.0		1 mL					

Batch Notes	

Basis	Basis Description
S	Soluble

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

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Batch Number: 96922 Batch Start Date: 12/20/12 16:36 Batch Analyst: Leader, Michael

Batch Method: D3987-85 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
MB 480-96922/1		D3987-85, 9060		25 g	500 mL				
480-30406-C-1	OC-SD-SD-503-XXX	D3987-85, 9060	Y	5.0831 g	100 mL				
480-30406-C-2	OC-SD-SD-504-XXX	D3987-85, 9060	Y	5.1248 g	100 mL				
480-30406-E-3	OC-SD-SD-501-XXX	D3987-85, 9060	Y	5.2051 g	100 mL				
480-30406-E-4	OC-SD-SD-502-XXX	D3987-85, 9060	Y	5.0594 g	100 mL				

Batch Notes	

Basis	Basis Description
Y	ASTM Leach

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

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Batch Number: 97733 Batch Start Date: 12/27/12 15:37 Batch Analyst: Clark, Kyra

Batch Method: 9060 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	WC_60PPM INT4 00020					
CCV 480-97733/25		9060		# mL					
LCS 480-97733/28		9060		# mL					
CCV 480-97733/37		9060		# mL					
CCV 480-97733/49		9060		# mL					

Batch Notes	

Basis	Basis Description

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

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-30406-1

SDG No.:

Batch Number: 96652 Batch Start Date: 12/19/12 16:02 Batch Analyst: Doyle, Matthew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
480-30406-A-1	OC-SD-SD-503-XXX	Moisture	T	1	4.35 g	18.76 g	13.56 g		
480-30406-A-2	OC-SD-SD-504-XXX	Moisture	T	2	4.35 g	16.63 g	11.26 g		
480-30406-A-3	OC-SD-SD-501-XXX	Moisture	T	3	4.35 g	20.75 g	16.08 g		
480-30406-A-4	OC-SD-SD-502-XXX	Moisture	T	4	4.35 g	17.89 g	13.75 g		

Batch Notes	
Batch Comment	pp-fh-05-12 4.35
Date samples were placed in the oven	12/19/12
Time samples were place in the oven	1630

Basis	Basis Description
T	Total/NA

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

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Westfield Job No.: 480-30406-1

SDG No.:

Batch Number: 97427 Batch Start Date: 12/18/12 09:45 Batch Analyst: Benoit, Gary R

Batch Method: DI Leach Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	W12H_PH_6 00001			
LCS 360-97427/1		DI Leach, 9045C		20 g	20 mL	20 mL			
480-30406-C-1	OC-SD-SD-503-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-30406-C-2	OC-SD-SD-504-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-30406-C-3	OC-SD-SD-501-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-30406-C-4	OC-SD-SD-502-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-30406-C-4 DU	OC-SD-SD-502-XXX	DI Leach, 9045C	S	20 g	20 mL				

Batch Notes	

Basis	Basis Description
S	Soluble

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

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Westfield Job No.: 480-30406-1

SDG No.:

Batch Number: 97429 Batch Start Date: 12/20/12 11:26 Batch Analyst: Benoit, Gary R

Batch Method: 9045C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	W12H_PH_6 00001					
CCV 360-97429/7		9045C		20 mL					

Batch Notes	
pH Buffer 1 ID	PH4 FISHER-120144
pH Buffer 2 ID	PH7 FISHER-114197
pH Buffer 3 ID	PH10 FISHER-114767

Basis	Basis Description

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

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Westfield Job No.: 480-30406-1

SDG No.:

Batch Number: 97428 Batch Start Date: 12/18/12 09:45 Batch Analyst: Benoit, Gary R

Batch Method: DI Leach Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	W12L_ORP_LCS 00001			
LCS 360-97428/1		DI Leach, SM 2580B		20 g	20 mL	20 mL			
480-30406-C-1	OC-SD-SD-503-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-30406-C-2	OC-SD-SD-504-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-30406-C-3	OC-SD-SD-501-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-30406-C-4	OC-SD-SD-502-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-30406-C-4 DU	OC-SD-SD-502-XXX	DI Leach, SM 2580B	S	20 g	20 mL				

Batch Notes	

Basis	Basis Description
S	Soluble

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.

Subcontract Data

Shipping and Receiving Documents

TestAmerica Westfield
Westfield Executive Park 53 Southampton Road
Westfield, MA 01085
Phone (413) 572-4000 Fax (413) 572-3707

Boston Service Center
240 Bear Hill Rd. Suite 104
Waltham, MA 02451
Phone (781) 466-6900 Fax (781) 466-6901

4880-30406

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information			
Client Contact: David Chapman	Sampler: David Chapman	Lab PM: Becky Mason	Carrier Tracking No(s):
Company: AMEC	Phone: 339-927-3793	E-Mail:	
Address: 2 Robbins Rd	Due Date Requested: Standard		
City: Westford	TAT Requested (days): Standard		
State, Zip: MA 01886			
Phone: 978-692-9000	Quote #:		
Email: David.chapman@amec.com	PO #:		
Project Name/number: elin. wilmington / 6107120016	WO #:		
Site: elin, Wilmington	SSOW#:		

COC No: 22210
Page: ~~2 of 2~~ 1 of 1
Job #: Pa 12/18/12

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Sampler's Initials	Field Filtered Sample?	Perform MS/MSD?	VOCs 8260B	SVOCs 8270C Low level	NDMA Mod - EPA 521	Metals SW846 6010B	Hex Cr SW-846 7199	Ammonia LACHAT 10-107-06-1-A	Chloride EPA 300	Sulfate EPA 300	TOC EPA 300				Total Number of containers	Special Instructions/Note:
Preservation Code:					X	X	X														
OC-SD-SD-~~501A~~-XXX 503 Pa 12/18/12	12-17-12	~~12:15~~ 14:30	C	S	NO	N	N	3	1	1	1	2	1	1	1	1				9	
OC-SD-SD-~~501B~~-XXX 504 Pa 12/18/12	12-17-12	~~14:30~~ 14:40	C	S	NO	N	N	3	1	1	1	2	1	1	1	1				9	See Becky
OC-SD-SD-~~502A~~-XXX 501 Pa 12/18/12	12-17-12	~~14:50~~ 15:00	12:15 C	S	NO	N	N	3	1	1	1	2	1	1	1	1				9	Mason
OC-SD-SD-~~502B~~-XXX 502 Pa 12/18/12	12-17-12	12:45	C	S	NO	N	N	3	1	1	1	2	1	1	1	1				9	w/ questions

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
David Chapman	12-17-12 / 16:30	AMEC		12-17-12 1630	
	12-17-12 1850			12/17/12 1850	TA

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 4.2 0.92 ø ICE

TAL-8245-360 1111

Login Sample Receipt Checklist

Client: Olin Corporation

Job Number: 480-30406-1

Login Number: 30406

List Source: TestAmerica Buffalo

List Number: 1

Creator: Kolb, Chris M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Olin Corporation

Job Number: 480-30406-1

Login Number: 30406
List Number: 1
Creator: Soderblom, Tim

List Source: TestAmerica Irvine
List Creation: 12/22/12 03:52 PM

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	Received project as a subcontract.
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").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Olin Corporation

Job Number: 480-30406-1

Login Number: 30406
List Number: 1
Creator: Cortes, Cesar C

List Source: TestAmerica Sacramento
List Creation: 12/19/12 04:48 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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	1.9
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Olin Corporation

Job Number: 480-30406-1

Login Number: 30406
List Number: 1
Creator: Emerich, Rich W

List Source: TestAmerica Westfield
List Creation: 12/20/12 10:58 AM

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?	True	
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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	