FILE COPY

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

CHECKED FOR COMPLETENESS OF PARAMETERS ORDERED BY:

Job Number: 480-29598-1

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
3/11/2013 1:30 PM

Becky C Mason
Project Manager II
becky.mason@testamericainc.com
03/11/2013
Revision: 2

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report.

TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

TestAmerica Laboratories, Inc.
TestAmerica Buffalo 10 Hazelwood Drive, Amherst, NY 14228-2298
Tel (716) 691-2600 Fax (716) 691-7991 www.testamericainc.com

Table of Contents

Cover Title Page 1

Data Summaries 5

Report Narrative 5

Sample Summary 9

Executive Summary 10

Method Summary 13

Method / Analyst Summary 14

Sample Datasheets 15

Surrogate Summary 53

QC Data Summary 55

Data Qualifiers 75

QC Association Summary 76

Lab Chronicle 82

Certification Summary 89

Organic Sample Data 91

GC/MS Semi VOA 91

8270_LL_MCP 91

8270_LL_MCP QC Summary 92

8270_LL_MCP Sample Data 103

Standards Data 244

8270_LL_MCP ICAL Data 244

8270_LL_MCP CCAL Data 423

Raw QC Data 476

8270_LL_MCP Tune Data 476

8270_LL_MCP Blank Data 482

8270_LL_MCP LCS/LCSD Data 503

Table of Contents

8270_LL_MCP Run Logs 564

8270_LL_MCP Prep Data 565

GC Semi VOA 567

Method Organotins 567

Method Organotins QC Summary 568

Method Organotins Sample Data 583

Standards Data 602

Method Organotins ICAL Data 602

Method Organotins CCAL Data 675

Raw QC Data 736

Method Organotins Blank Data 736

Method Organotins LCS/LCSD Data 754

Method Organotins MS/MSD Data 770

Method Organotins Run Logs 786

Method Organotins Prep Data 792

Inorganic Sample Data 796

Metals Data 796

Met Cover Page 797

Met Sample Data 798

Met QC Data 801

Met ICV/CCV 801

Met CRQL 803

Met Blanks 804

Met ICSA/ICSAB 806

Met MS/MSD/PDS 810

Met LCS/LCSD 813

Table of Contents

Met Serial Dilution 815

Met MDL 816

Met IECF 818

Met Linear Ranges 824

Met Preparation Log 825

Met Analysis Run Log 826

Met Raw Data 828

Met Prep Data 1032

General Chemistry Data 1034

Gen Chem Cover Page 1035

Gen Chem Sample Data 1038

Gen Chem QC Data 1058

Gen Chem ICV/CCV 1058

Gen Chem Blanks 1060

Gen Chem MS/MSD/PDS 1061

Gen Chem Duplicates 1062

Gen Chem LCS/LCSD 1064

Gen Chem MDL 1066

Gen Chem Preparation Log 1076

Gen Chem Analysis Run Log 1077

Gen Chem Raw Data 1084

Gen Chem Prep Data 1153

Subcontracted Data 1164

Shipping and Receiving Documents 1165

Client Chain of Custody 1166

Sample Receipt Checklist 1168

MassDEP Analytical Protocol Certification Form

Laboratory Name:	**TestAmerica Buffalo**	Project #:	**480-29598-1**
Project Location:	**Olin Wilmington**	RTN:	

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

480-29598-1 [1-11]

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:	1/9/13 9:15

This form has been electronically signed and approved

CASE NARRATIVE

Client: Olin Corporation

Project: Olin Chemical Wilmington MA Superfund

Report Number: 480-29598-1

Revised report 2: Updated 8270 compound list.

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.

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

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 12/05/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.8 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.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS) - LOW LEVEL

Samples OC-SB-526-0.0/1.0-XXX (480-29598-3), OC-SB-526-1.0/3.0-XXX (480-29598-4), OC-SB-528-0.0/1.0-XXX (480-29598-7), OC-SB-528-1.0/3.0-XXX (480-29598-8), OC-SB-529-0.0/1.0-XXX (480-29598-9) and OC-SB-529-1.0/3.0-XXX (480-29598-10) were analyzed for semivolatile organic compounds (GC-MS) - Low Level in accordance with EPA SW-846 Method 8270D LL. The samples were prepared on 12/11/2012 and analyzed on 12/18/2012.

Surrogate

2,4,6-Tribromophenol, 2-Fluorobiphenyl, 2-Fluorophenol, Nitrobenzene-d5, Phenol-d5 and p-Terphenyl-d14 failed the surrogate recovery criteria low for OC-SB-528-0.0/1.0-XXX (480-29598-7).

2,4,6-Tribromophenol, 2-Fluorobiphenyl, 2-Fluorophenol, Nitrobenzene-d5, Phenol-d5 and p-Terphenyl-d14 failed the surrogate recovery criteria low for OC-SB-528-1.0/3.0-XXX (480-29598-8). Refer to the QC report for details.

Internal Standard

Internal standard response for Perylene-d12 was outside of acceptance limits for the following sample: OC-SB-528-0.0/1.0-XXX (480-29598-7). This sample contains a non-target analyte at the same retention time, and contains the same ion mass as the quantitation ion for Perylene-d12. Results for analytes associated with this internal standard may be biased low.

General

At the request of the client, an abbreviated MCP analyte list was reported for this job. Only Bis(2-ethylhexyl) phthalate was requested.

Samples OC-SB-528-0.0/1.0-XXX (480-29598-7)[20X] and OC-SB-528-1.0/3.0-XXX (480-29598-8)[20X] required dilution prior to analysis due to the nature of the sample matrix and an abundance of non-target analytes . The reporting limits have been adjusted accordingly. As such, surrogate recoveries were reduced to a level in which they do not provide useful information.

Method(s) 8270D: The following compound was outside control limits in the continuing calibration verification (CCV) associated with batch 96347: 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, less than 40% drift; therefore, the data have been reported.

Method(s) 8270D: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 95170 exceeded control limits for multiple analytes. These analytes have been identified as 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 95170 exceeded control limits for multiple analytes. The data has been qualified and 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.

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

All other quality control parameters were within the acceptance limits.

ORGANOTINS_GC

Samples OC-SB-528-0.0/1.0-XXX (480-29598-7), OC-SB-528-1.0/3.0-XXX (480-29598-8) and OC-DUP-2 (480-29598-11) were analyzed for Organo tins_GC. The samples were prepared on 12/10/2012 and 12/22/2012 and analyzed on 12/11/2012 and 12/26/2012.

No difficulties were encountered during the Organo tin analyses.

All quality control parameters were within the acceptance limits.

TOTAL METALS

Samples OC-SB-528-0.0/1.0-XXX (480-29598-7), OC-SB-528-1.0/3.0-XXX (480-29598-8) and OC-DUP-2 (480-29598-11) were analyzed for total metals in accordance with SW846 6010. The samples were prepared and analyzed on 12/21/2012.

CCV

The Continuing Calibration Blank, CCB 480-95166/29, for analytical batch 480-95166 contained total chromium above the reporting limit (RL). Only Tin is reported for this job.

ICSA

he ICSA (ICSA 480-95361/12), in analysis batch 480-95361 exhibited results outside the project established control limits for total cadmium. However, the results were within TestAmerica's standard quality control limits, therefore no corrective action was necessary. Tin only reported for this job.

CRI

The CRI (CRI 480-95361/49) from analysis batch 480-95361 exhibited results outside the project established control limits for total arsenic. However, the results were within TestAmerica's standard quality control limits, therefore no corrective action was necessary. Tin only reported for this job.

General

At the request of the client, a non-MCP analyte list was reported for this job. Only Tin was requested.

No other difficulties were encountered during the total metals analyses.

All quality control parameters were within the acceptance limits.

REDUCTION-OXIDATION (REDOX) POTENTIAL

Samples OC-SS-524-0.0/1.0-XXX (480-29598-1), OC-SS-525-0.0/1.0-XXX (480-29598-2), OC-SB-526-0.0/1.0-XXX (480-29598-3), OC-SB-526-1.0/3.0-XXX (480-29598-4), OC-SB-527-0.0/1.0-XXX (480-29598-5), OC-SB-527-1.0/3.0-XXX (480-29598-6), OC-SB-528-0.0/1.0-XXX (480-29598-7), OC-SB-528-1.0/3.0-XXX (480-29598-8), OC-SB-529-0.0/1.0-XXX (480-29598-9) and OC-SB-529-1.0/3.0-XXX (480-29598-10) were analyzed for Reduction-Oxidation (REDOX) Potential in accordance with SM20 2580B Oxidation Reduction Potential. The samples were leached on 12/06/2012 and analyzed on 12/06/2012.

General

For ORP batch 97369, the following samples had a result of 0 mV for ORP, but due to the limitations of TALS it comes up as "ND" for the final result, even though a result of 0 mV is viable for the method: OC-SB-528-0.0/1.0-XXX (480-29598-7), OC-SB-528-1.0/3.0-XXX (480-29598-8).

No other difficulties were encountered during the redox analyses.

All quality control parameters were within the acceptance limits.

HEXAVALENT CHROMIUM

Samples OC-SS-524-0.0/1.0-XXX (480-29598-1), OC-SS-525-0.0/1.0-XXX (480-29598-2), OC-SB-526-0.0/1.0-XXX (480-29598-3), OC-SB-526-1.0/3.0-XXX (480-29598-4), OC-SB-527-0.0/1.0-XXX (480-29598-5), OC-SB-527-1.0/3.0-XXX (480-29598-6), OC-SB-528-0.0/1.0-XXX (480-29598-7), OC-SB-528-1.0/3.0-XXX (480-29598-8), OC-SB-529-0.0/1.0-XXX (480-29598-9) and OC-SB-529-1.0/3.0-XXX (480-29598-10) were analyzed for hexavalent chromium in accordance with EPA SW-846 Method 7199. The samples were prepared on 12/12/2012 and analyzed on 12/12/2012 and 12/13/2012.

No difficulties were encountered during the hexavalent chromium analyses.

All quality control parameters were within the acceptance limits.

PH

Samples OC-SS-524-0.0/1.0-XXX (480-29598-1), OC-SS-525-0.0/1.0-XXX (480-29598-2), OC-SB-526-0.0/1.0-XXX (480-29598-3), OC-SB-526-1.0/3.0-XXX (480-29598-4), OC-SB-527-0.0/1.0-XXX (480-29598-5), OC-SB-527-1.0/3.0-XXX (480-29598-6), OC-SB-528-0.0/1.0-XXX (480-29598-7), OC-SB-528-1.0/3.0-XXX (480-29598-8), OC-SB-529-0.0/1.0-XXX (480-29598-9) and OC-SB-529-1.0/3.0-XXX (480-29598-10) were analyzed for pH in accordance with EPA SW-846 Method 9045C. The samples were leached on 12/06/2012 and analyzed on 12/06/2012.

No difficulties were encountered during the pH analyses.

All quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Samples OC-SS-524-0.0/1.0-XXX (480-29598-1), OC-SS-525-0.0/1.0-XXX (480-29598-2), OC-SB-526-0.0/1.0-XXX (480-29598-3), OC-SB-526-1.0/3.0-XXX (480-29598-4), OC-SB-527-0.0/1.0-XXX (480-29598-5), OC-SB-527-1.0/3.0-XXX (480-29598-6), OC-SB-528-0.0/1.0-XXX (480-29598-7), OC-SB-528-1.0/3.0-XXX (480-29598-8), OC-SB-529-0.0/1.0-XXX (480-29598-9), OC-SB-529-1.0/3.0-XXX (480-29598-10) and OC-DUP-2 (480-29598-11) were analyzed for percent solids in accordance with EPA Moisture. The samples were analyzed on 12/07/2012 and 12/09/2012.

No difficulties were encountered during the % solids analyses.

All quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Olin Corporation

Job Number: 480-29598-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-29598-1	OC-SS-524-0.0/1.0-XXX	Solid	12/05/2012 0920	12/05/2012 1815
480-29598-2	OC-SS-525-0.0/1.0-XXX	Solid	12/05/2012 0945	12/05/2012 1815
480-29598-3	OC-SB-526-0.0/1.0-XXX	Solid	12/05/2012 1040	12/05/2012 1815
480-29598-4	OC-SB-526-1.0/3.0-XXX	Solid	12/05/2012 1045	12/05/2012 1815
480-29598-5	OC-SB-527-0.0/1.0-XXX	Solid	12/05/2012 1335	12/05/2012 1815
480-29598-6	OC-SB-527-1.0/3.0-XXX	Solid	12/05/2012 1340	12/05/2012 1815
480-29598-7	OC-SB-528-0.0/1.0-XXX	Solid	12/05/2012 1400	12/05/2012 1815
480-29598-8	OC-SB-528-1.0/3.0-XXX	Solid	12/05/2012 1405	12/05/2012 1815
480-29598-8MS	OC-SB-528-1.0/3.0-XXX	Solid	12/05/2012 1405	12/05/2012 1815
480-29598-8MSD	OC-SB-528-1.0/3.0-XXX	Solid	12/05/2012 1405	12/05/2012 1815
480-29598-9	OC-SB-529-0.0/1.0-XXX	Solid	12/05/2012 1230	12/05/2012 1815
480-29598-10	OC-SB-529-1.0/3.0-XXX	Solid	12/05/2012 1235	12/05/2012 1815
480-29598-11	OC-DUP-2	Solid	12/05/2012 0000	12/05/2012 1815

EXECUTIVE SUMMARY - Detections

Client: Olin Corporation

Job Number: 480-29598-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-29598-1	**OC-SS-524-0.0/1.0-XXX**					
Percent Moisture		55		1.0	%	Moisture
Percent Solids		45		1.0	%	Moisture
Soluble						
pH-Soluble		3.36		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		110		0.010	millivolts	SM 2580B
480-29598-2	**OC-SS-525-0.0/1.0-XXX**					
Percent Moisture		34		1.0	%	Moisture
Percent Solids		66		1.0	%	Moisture
Soluble						
pH-Soluble		4.07		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		99		0.010	millivolts	SM 2580B
480-29598-3	**OC-SB-526-0.0/1.0-XXX**					
Benzaldehyde		56		56	ug/Kg	8270D
Percent Moisture		42		1.0	%	Moisture
Percent Solids		58		1.0	%	Moisture
Soluble						
pH-Soluble		4.04		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		75		0.010	millivolts	SM 2580B
480-29598-4	**OC-SB-526-1.0/3.0-XXX**					
Percent Moisture		25		1.0	%	Moisture
Percent Solids		75		1.0	%	Moisture
Soluble						
pH-Soluble		4.33		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		82		0.010	millivolts	SM 2580B
480-29598-5	**OC-SB-527-0.0/1.0-XXX**					
Percent Moisture		30		1.0	%	Moisture
Percent Solids		70		1.0	%	Moisture
Soluble						
pH-Soluble		3.73		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		79		0.010	millivolts	SM 2580B

EXECUTIVE SUMMARY - Detections

Client: Olin Corporation

Job Number: 480-29598-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-29598-6	**OC-SB-527-1.0/3.0-XXX**					
Percent Moisture		32		1.0	%	Moisture
Percent Solids		68		1.0	%	Moisture
Soluble						
pH-Soluble		3.85		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		73		0.010	millivolts	SM 2580B
480-29598-7	**OC-SB-528-0.0/1.0-XXX**					
N-Nitrosodiphenylamine		1300	J	2400	ug/Kg	8270D
1,1'-Biphenyl		930	J	2400	ug/Kg	8270D
Bis(2-ethylhexyl) phthalate		41000		12000	ug/Kg	8270D
Phenyl ether		1900	J	2400	ug/Kg	8270D
Tin		7.5	J ^	8.0	mg/Kg	6010
Chromium (hexavalent)		19		7.7	mg/Kg	7199
Percent Moisture		73		1.0	%	Moisture
Percent Solids		27		1.0	%	Moisture
Soluble						
pH-Soluble		6.02		1.00	SU	9045C
480-29598-8	**OC-SB-528-1.0/3.0-XXX**					
Bis(2-ethylhexyl) phthalate		11000		7900	ug/Kg	8270D
Phenyl ether		820	J	1600	ug/Kg	8270D
Tin		2.4	J ^	5.2	mg/Kg	6010
Chromium (hexavalent)		4.0	J	4.8	mg/Kg	7199
Percent Moisture		59		1.0	%	Moisture
Percent Solids		41		1.0	%	Moisture
Soluble						
pH-Soluble		6.15		1.00	SU	9045C
480-29598-9	**OC-SB-529-0.0/1.0-XXX**					
Benzaldehyde		97		56	ug/Kg	8270D
Acetophenone		18	J	56	ug/Kg	8270D
Fluoranthene		18	J	56	ug/Kg	8270D
Naphthalene		26	J	56	ug/Kg	8270D
Phenanthrene		23	J	56	ug/Kg	8270D
Phenol		24	J	56	ug/Kg	8270D
Percent Moisture		41		1.0	%	Moisture
Percent Solids		59		1.0	%	Moisture
Soluble						
pH-Soluble		3.88		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		49		0.010	millivolts	SM 2580B

EXECUTIVE SUMMARY - Detections

Client: Olin Corporation

Job Number: 480-29598-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-29598-10	**OC-SB-529-1.0/3.0-XXX**					
Percent Moisture		21		1.0	%	Moisture
Percent Solids		79		1.0	%	Moisture
Soluble						
pH-Soluble		4.24		1.00	SU	9045C
Oxidation Reduction Potential-Soluble		34		0.010	millivolts	SM 2580B
480-29598-11	**OC-DUP-2**					
Tin		2.1	J ^	4.3	mg/Kg	6010
Percent Moisture		54		0.10	%	Moisture
Percent Solids		46		0.10	%	Moisture

METHOD SUMMARY

Client: Olin Corporation

Job Number: 480-29598-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
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
Percent Moisture	TAL BUF	EPA Moisture	
Organotins (GC/FPD)	TAL BUR	TestAmerica SOP Organotins/GC	
Ultrasonic Extraction	TAL BUR		SW846 3550C
Chromium, Hexavalent (IC)	TAL EDI	SW846 7199	
Alkaline Digestion (Chromium, Hexavalent)	TAL EDI		SW846 3060A
Percent Moisture	TAL EDI	EPA Moisture	
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 BUR = TestAmerica Burlington

TAL EDI = TestAmerica Edison

TAL WFD = TestAmerica Westfield

Method References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

MA DEP = Massachusetts Department Of Environmental Protection

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: 480-29598-1

Method	Analyst	Analyst ID
MA DEP 8270D	McKernan, Ryan	RMM
TestAmerica SOP Organotins/GC	Duncan, Stacee L	SLD
TestAmerica SOP Organotins/GC	Malaspina, Richard R	RRM
SW846 6010	Hawrysiak, Allison	AH
SW846 7199	Brown, Sarah E	SEB
SW846 9045C	Benoit, Gary R	GRB
EPA Moisture	Doyle, Matthew	MD
EPA Moisture	Robinson, Ian	IR
SM SM 2580B	Benoit, Gary R	GRB

Client: Olin Corporation | Job Number: 480-29598-1

Client Sample ID: **OC-SB-526-0.0/1.0-XXX**

Lab Sample ID: 480-29598-3 | Date Sampled: 12/05/2012 1040
Client Matrix: Solid | % Moisture: 41.6 | Date Received: 12/05/2012 1815

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

Analysis Method:	8270D	Analysis Batch:	480-96347	Instrument ID:	HP5973X
Prep Method:	3546	Prep Batch:	480-95170	Lab File ID:	X3146.D
Dilution:	1.0			Initial Weight/Volume:	000030.5 g
Analysis Date:	12/18/2012 1835			Final Weight/Volume:	1 mL
Prep Date:	12/11/2012 0851			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,2,4-Trichlorobenzene		ND		17	56
1,2-Dichlorobenzene		ND		17	56
1,3-Dichlorobenzene		ND		17	56
Benzaldehyde		56		17	56
1,4-Dichlorobenzene		ND		17	56
2,2'-oxybis[1-chloropropane]		ND		17	56
2,4,5-Trichlorophenol		ND		19	56
2,4,6-Trichlorophenol		ND		24	56
Benzyl alcohol		ND		17	110
2,4-Dichlorophenol		ND		17	56
2,4-Dimethylphenol		ND		17	56
2,4-Dinitrophenol		ND	*	45	56
2,4-Dinitrotoluene		ND		17	56
4-Nitroaniline		ND		47	280
2,6-Dinitrotoluene		ND		47	56
2-Chloronaphthalene		ND	*	17	56
2-Chlorophenol		ND		17	56
N-Nitrosodiphenylamine		ND		17	56
2-Methylnaphthalene		ND		17	56
2-Methylphenol		ND		17	56
2-Nitrophenol		ND		22	56
3 & 4 Methylphenol		ND		17	56
3,3'-Dichlorobenzidine		ND		20	110
2-Nitroaniline		ND		71	280
4-Bromophenyl phenyl ether		ND		17	56
Hexachlorocyclopentadiene		ND		17	110
4-Chloroaniline		ND		50	110
4-Nitrophenol		ND	*	24	280
Acenaphthene		ND		17	56
4,6-Dinitro-2-methylphenol		ND		54	280
1,2,4,5-Tetrachlorobenzene		ND		17	56
Acenaphthylene		ND		17	56
Acetophenone		ND		17	56
Aniline		ND		17	56
Anthracene		ND		17	56
Atrazine		ND		17	56
Azobenzene		ND		17	56
Benzo[a]anthracene		ND		17	56
Benzo[a]pyrene		ND		17	56
Benzo[b]fluoranthene		ND		17	56
Benzo[g,h,i]perylene		ND		17	56
Caprolactam		ND		17	56
3-Nitroaniline		ND		17	280
Benzo[k]fluoranthene		ND		29	56
Bis(2-chloroethoxy)methane		ND		17	56
1,1'-Biphenyl		ND		17	56

Client: Olin Corporation

Job Number: 480-29598-1

Client Sample ID: **OC-SB-526-0.0/1.0-XXX**

Lab Sample ID: 480-29598-3

Client Matrix: Solid

% Moisture: 41.6

Date Sampled: 12/05/2012 1040

Date Received: 12/05/2012 1815

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

Analysis Method:	8270D	Analysis Batch:	480-96347	Instrument ID:	HP5973X
Prep Method:	3546	Prep Batch:	480-95170	Lab File ID:	X3146.D
Dilution:	1.0			Initial Weight/Volume:	000030.5 g
Analysis Date:	12/18/2012 1835			Final Weight/Volume:	1 mL
Prep Date:	12/11/2012 0851			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Bis(2-chloroethyl)ether		ND		17	56
Bis(2-ethylhexyl) phthalate		ND		110	280
Butyl benzyl phthalate		ND		17	56
Chrysene		ND		17	56
N-Nitrosodi-n-propylamine		ND		17	56
Benzoic acid		ND		25	280
Dibenz(a,h)anthracene		ND		17	56
Dibenzofuran		ND		17	56
Diethyl phthalate		ND		19	56
Dimethyl phthalate		ND		17	56
Di-n-butyl phthalate		ND		84	280
Di-n-octyl phthalate		ND		17	56
Phenyl ether		ND		17	56
2,3,4,6-Tetrachlorophenol		ND		17	56
Fluoranthene		ND		17	56
4-Chloro-3-methylphenol		ND		17	110
Fluorene		ND		17	56
4-Chlorophenyl phenyl ether		ND		17	56
Hexachlorobenzene		ND		17	56
Hexachlorobutadiene		ND		17	56
Hexachloroethane		ND		17	56
Indeno[1,2,3-cd]pyrene		ND	*	17	56
Isophorone		ND		17	56
Naphthalene		ND		17	56
Nitrobenzene		ND		17	56
Pentachlorophenol		ND		17	56
Phenanthrene		ND		17	56
Benzophenone		ND		17	56
Phenol		ND		17	56
Pyrene		ND		17	56
N-Nitrosodimethylamine		ND		17	56
Carbazole		ND		17	56
1-Methylnaphthalene		ND		17	56
4-Methylphenol		ND		17	56

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	59		30 - 130
2-Fluorophenol	54		30 - 130
Nitrobenzene-d5	55		30 - 130
Phenol-d5	65		30 - 130
2-Fluorobiphenyl	60		30 - 130
p-Terphenyl-d14	55		30 - 130

Client: Olin Corporation

Job Number: 480-29598-1

Client Sample ID: **OC-SB-526-0.0/1.0-XXX**

Lab Sample ID: 480-29598-3

Client Matrix: Solid

% Moisture: 41.6

Date Sampled: 12/05/2012 1040

Date Received: 12/05/2012 1815

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

Analysis Method:	8270D	Analysis Batch:	480-96347	Instrument ID:	HP5973X
Prep Method:	3546	Prep Batch:	480-95170	Lab File ID:	X3146.D
Dilution:	1.0			Initial Weight/Volume:	000030.5 g
Analysis Date:	12/18/2012 1835			Final Weight/Volume:	1 mL
Prep Date:	12/11/2012 0851			Injection Volume:	1 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
141-79-7	3-Penten-2-one, 4-methyl-	3.56	150	T J N
4161-60-8	2-Pentanone, 4-hydroxy-	3.85	130	T J N
98-1-1	Furfural	4.08	420	T J N
123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	4.23	11000	T J N
106-42-3	p-Xylene	4.66	850	T J N
57-10-3	n-Hexadecanoic acid	13.76	110	T J N
629-92-5	Nonadecane	16.11	100	T J N
638-67-5	Tricosane	16.66	210	T J N
630-4-6	Hentriacontane	17.27	190	T J N
1000193-60-8	1,1,4a-Trimethyl-5,6-dimethylenedecahydr	18.45	150	T J N

Client: Olin Corporation | Job Number: 480-29598-1

Client Sample ID: **OC-SB-526-1.0/3.0-XXX**

Lab Sample ID: 480-29598-4 | Date Sampled: 12/05/2012 1045
Client Matrix: Solid | % Moisture: 25.1 | Date Received: 12/05/2012 1815

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

Analysis Method:	8270D	Analysis Batch:	480-96347	Instrument ID:	HP5973X
Prep Method:	3546	Prep Batch:	480-95170	Lab File ID:	X3147.D
Dilution:	1.0			Initial Weight/Volume:	000030.5 g
Analysis Date:	12/18/2012 1900			Final Weight/Volume:	1 mL
Prep Date:	12/11/2012 0851			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,2,4-Trichlorobenzene		ND		13	44
1,2-Dichlorobenzene		ND		13	44
1,3-Dichlorobenzene		ND		13	44
Benzaldehyde		ND		13	44
1,4-Dichlorobenzene		ND		13	44
2,2'-oxybis[1-chloropropane]		ND		13	44
2,4,5-Trichlorophenol		ND		14	44
2,4,6-Trichlorophenol		ND		18	44
Benzyl alcohol		ND		13	88
2,4-Dichlorophenol		ND		13	44
2,4-Dimethylphenol		ND		13	44
2,4-Dinitrophenol		ND	*	35	44
2,4-Dinitrotoluene		ND		13	44
4-Nitroaniline		ND		37	220
2,6-Dinitrotoluene		ND		37	44
2-Chloronaphthalene		ND	*	13	44
2-Chlorophenol		ND		13	44
N-Nitrosodiphenylamine		ND		13	44
2-Methylnaphthalene		ND		13	44
2-Methylphenol		ND		13	44
2-Nitrophenol		ND		17	44
3 & 4 Methylphenol		ND		13	44
3,3'-Dichlorobenzidine		ND		16	88
2-Nitroaniline		ND		55	220
4-Bromophenyl phenyl ether		ND		13	44
Hexachlorocyclopentadiene		ND		13	88
4-Chloroaniline		ND		39	88
4-Nitrophenol		ND	*	18	220
Acenaphthene		ND		13	44
4,6-Dinitro-2-methylphenol		ND		42	220
1,2,4,5-Tetrachlorobenzene		ND		13	44
Acenaphthylene		ND		13	44
Acetophenone		ND		13	44
Aniline		ND		13	44
Anthracene		ND		13	44
Atrazine		ND		13	44
Azobenzene		ND		13	44
Benzo[a]anthracene		ND		13	44
Benzo[a]pyrene		ND		13	44
Benzo[b]fluoranthene		ND		13	44
Benzo[g,h,i]perylene		ND		13	44
Caprolactam		ND		13	44
3-Nitroaniline		ND		13	220
Benzo[k]fluoranthene		ND		22	44
Bis(2-chloroethoxy)methane		ND		13	44
1,1'-Biphenyl		ND		13	44

Client: Olin Corporation

Job Number: 480-29598-1

Client Sample ID: **OC-SB-526-1.0/3.0-XXX**

Lab Sample ID: 480-29598-4

Client Matrix: Solid

% Moisture: 25.1

Date Sampled: 12/05/2012 1045

Date Received: 12/05/2012 1815

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

Analysis Method:	8270D	Analysis Batch:	480-96347	Instrument ID:	HP5973X
Prep Method:	3546	Prep Batch:	480-95170	Lab File ID:	X3147.D
Dilution:	1.0			Initial Weight/Volume:	000030.5 g
Analysis Date:	12/18/2012 1900			Final Weight/Volume:	1 mL
Prep Date:	12/11/2012 0851			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Bis(2-chloroethyl)ether		ND		13	44
Bis(2-ethylhexyl) phthalate		ND		88	220
Butyl benzyl phthalate		ND		13	44
Chrysene		ND		13	44
N-Nitrosodi-n-propylamine		ND		13	44
Benzoic acid		ND		20	220
Dibenz(a,h)anthracene		ND		13	44
Dibenzofuran		ND		13	44
Diethyl phthalate		ND		14	44
Dimethyl phthalate		ND		13	44
Di-n-butyl phthalate		ND		66	220
Di-n-octyl phthalate		ND		13	44
Phenyl ether		ND		13	44
2,3,4,6-Tetrachlorophenol		ND		13	44
Fluoranthene		ND		13	44
4-Chloro-3-methylphenol		ND		13	88
Fluorene		ND		13	44
4-Chlorophenyl phenyl ether		ND		13	44
Hexachlorobenzene		ND		13	44
Hexachlorobutadiene		ND		13	44
Hexachloroethane		ND		13	44
Indeno[1,2,3-cd]pyrene		ND	*	13	44
Isophorone		ND		13	44
Naphthalene		ND		13	44
Nitrobenzene		ND		13	44
Pentachlorophenol		ND		13	44
Phenanthrene		ND		13	44
Benzophenone		ND		13	44
Phenol		ND		13	44
Pyrene		ND		13	44
N-Nitrosodimethylamine		ND		13	44
Carbazole		ND		13	44
1-Methylnaphthalene		ND		13	44
4-Methylphenol		ND		13	44

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	62		30 - 130
2-Fluorophenol	53		30 - 130
Nitrobenzene-d5	51		30 - 130
Phenol-d5	54		30 - 130
2-Fluorobiphenyl	66		30 - 130
p-Terphenyl-d14	67		30 - 130

Client: Olin Corporation

Job Number: 480-29598-1

Client Sample ID: **OC-SB-526-1.0/3.0-XXX**

Lab Sample ID: 480-29598-4

Client Matrix: Solid

% Moisture: 25.1

Date Sampled: 12/05/2012 1045

Date Received: 12/05/2012 1815

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

Analysis Method:	8270D	Analysis Batch:	480-96347	Instrument ID:	HP5973X
Prep Method:	3546	Prep Batch:	480-95170	Lab File ID:	X3147.D
Dilution:	1.0			Initial Weight/Volume:	000030.5 g
Analysis Date:	12/18/2012 1900			Final Weight/Volume:	1 mL
Prep Date:	12/11/2012 0851			Injection Volume:	1 uL

Tentatively Identified Compounds **Number TIC's Found:** **7**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
4161-60-8	2-Pentanone, 4-hydroxy-	3.82	190	T J N
17429-4-8	2-Pentanone, 5-methoxy-	4.20	9800	T J N
	Unknown	4.21	54	T J
40499-83-0	3-Pyrrolidinol	5.23	37	T J N
111-84-2	Nonane	6.32	22	T J N
89950-0-5	d:a-Friedoursan-3-one	15.28	280	T J N
593-49-7	Heptacosane	16.66	23	T J N

Client: Olin Corporation

Job Number: 480-29598-1

Client Sample ID: **OC-SB-528-0.0/1.0-XXX**

Lab Sample ID: 480-29598-7

Client Matrix: Solid

% Moisture: 73.0

Date Sampled: 12/05/2012 1400

Date Received: 12/05/2012 1815

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

Analysis Method:	8270D	Analysis Batch:	480-96347	Instrument ID:	HP5973X
Prep Method:	3546	Prep Batch:	480-95170	Lab File ID:	X3148.D
Dilution:	20			Initial Weight/Volume:	000030.6 g
Analysis Date:	12/18/2012 1926			Final Weight/Volume:	1 mL
Prep Date:	12/11/2012 0851			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,2,4-Trichlorobenzene		ND		730	2400
1,2-Dichlorobenzene		ND		730	2400
1,3-Dichlorobenzene		ND		730	2400
Benzaldehyde		ND		730	2400
1,4-Dichlorobenzene		ND		730	2400
2,2'-oxybis[1-chloropropane]		ND		730	2400
2,4,5-Trichlorophenol		ND		800	2400
2,4,6-Trichlorophenol		ND		1000	2400
Benzyl alcohol		ND		730	4800
2,4-Dichlorophenol		ND		730	2400
2,4-Dimethylphenol		ND		730	2400
2,4-Dinitrophenol		ND	*	2000	2400
2,4-Dinitrotoluene		ND		730	2400
4-Nitroaniline		ND		2000	12000
2,6-Dinitrotoluene		ND		2000	2400
2-Chloronaphthalene		ND	*	730	2400
2-Chlorophenol		ND		730	2400
N-Nitrosodiphenylamine		1300	J	730	2400
2-Methylnaphthalene		ND		730	2400
2-Methylphenol		ND		730	2400
2-Nitrophenol		ND		940	2400
3 & 4 Methylphenol		ND		730	2400
3,3'-Dichlorobenzidine		ND		870	4800
2-Nitroaniline		ND		3100	12000
4-Bromophenyl phenyl ether		ND		730	2400
Hexachlorocyclopentadiene		ND		730	4800
4-Chloroaniline		ND		2200	4800
4-Nitrophenol		ND	*	1000	12000
Acenaphthene		ND		730	2400
4,6-Dinitro-2-methylphenol		ND		2300	12000
1,2,4,5-Tetrachlorobenzene		ND		730	2400
Acenaphthylene		ND		730	2400
Acetophenone		ND		730	2400
Aniline		ND		730	2400
Anthracene		ND		730	2400
Atrazine		ND		730	2400
Azobenzene		ND		730	2400
Benzo[a]anthracene		ND		730	2400
Benzo[a]pyrene		ND		730	2400
Benzo[b]fluoranthene		ND		730	2400
Benzo[g,h,i]perylene		ND		730	2400
Caprolactam		ND		730	2400
3-Nitroaniline		ND		730	12000
Benzo[k]fluoranthene		ND		1200	2400
Bis(2-chloroethoxy)methane		ND		730	2400
1,1'-Biphenyl		930	J	730	2400

Client: Olin Corporation

Job Number: 480-29598-1

Client Sample ID: **OC-SB-528-0.0/1.0-XXX**

Lab Sample ID: 480-29598-7

Client Matrix: Solid

% Moisture: 73.0

Date Sampled: 12/05/2012 1400

Date Received: 12/05/2012 1815

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

Analysis Method:	8270D	Analysis Batch:	480-96347	Instrument ID:	HP5973X
Prep Method:	3546	Prep Batch:	480-95170	Lab File ID:	X3148.D
Dilution:	20			Initial Weight/Volume:	000030.6 g
Analysis Date:	12/18/2012 1926			Final Weight/Volume:	1 mL
Prep Date:	12/11/2012 0851			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Bis(2-chloroethyl)ether		ND		730	2400
Bis(2-ethylhexyl) phthalate		41000		4900	12000
Butyl benzyl phthalate		ND		730	2400
Chrysene		ND		730	2400
N-Nitrosodi-n-propylamine		ND		730	2400
Benzoic acid		ND		1100	12000
Dibenz(a,h)anthracene		ND		730	2400
Dibenzofuran		ND		730	2400
Diethyl phthalate		ND		800	2400
Dimethyl phthalate		ND		730	2400
Di-n-butyl phthalate		ND		3600	12000
Di-n-octyl phthalate		ND		730	2400
Phenyl ether		1900	J	730	2400
2,3,4,6-Tetrachlorophenol		ND		730	2400
Fluoranthene		ND		730	2400
4-Chloro-3-methylphenol		ND		730	4800
Fluorene		ND		730	2400
4-Chlorophenyl phenyl ether		ND		730	2400
Hexachlorobenzene		ND		730	2400
Hexachlorobutadiene		ND		730	2400
Hexachloroethane		ND		730	2400
Indeno[1,2,3-cd]pyrene		ND	*	730	2400
Isophorone		ND		730	2400
Naphthalene		ND		730	2400
Nitrobenzene		ND		730	2400
Pentachlorophenol		ND		730	2400
Phenanthrene		ND		730	2400
Benzophenone		ND		730	2400
Phenol		ND		730	2400
Pyrene		ND		730	2400
N-Nitrosodimethylamine		ND		730	2400
Carbazole		ND		730	2400
1-Methylnaphthalene		ND		730	2400
4-Methylphenol		ND		730	2400

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: 480-29598-1

Client Sample ID: **OC-SB-528-0.0/1.0-XXX**

Lab Sample ID: 480-29598-7

Client Matrix: Solid

% Moisture: 73.0

Date Sampled: 12/05/2012 1400

Date Received: 12/05/2012 1815

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

Analysis Method:	8270D	Analysis Batch:	480-96347	Instrument ID:	HP5973X
Prep Method:	3546	Prep Batch:	480-95170	Lab File ID:	X3148.D
Dilution:	20			Initial Weight/Volume:	000030.6 g
Analysis Date:	12/18/2012 1926			Final Weight/Volume:	1 mL
Prep Date:	12/11/2012 0851			Injection Volume:	1 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
540-88-5	Acetic acid, 1,1-dimethylethyl ester	4.14	42000	T J N
123-48-8	3-Heptene, 2,2,4,6,6-pentamethyl-	9.61	79000	T J N
7756-94-7	1-Propene, 2-methyl-, trimer	9.67	5100	T J N
4390-4-9	Nonane, 2,2,4,4,6,8,8-heptamethyl-	9.72	46000	T J N
123-48-8	3-Heptene, 2,2,4,6,6-pentamethyl-	9.77	6100	T J N
107-39-1	1-Pentene, 2,4,4-trimethyl-	9.82	30000	T J N
23069-75-2	1,2,4-Triazolo[4,3-b]pyridazine, 8-methy	11.99	7800	T J N
1000126-4-1	Styrene, 2-nitro-3'-[4-methylphenyloxy]-	15.94	15000	T J N
77862-13-6	9,10-Anthracenedione, 1,4-bis(aminomethy	16.04	30000	T J N
1000126-4-1	Styrene, 2-nitro-3'-[4-methylphenyloxy]-	16.17	7700	T J N

Client: Olin Corporation | Job Number: 480-29598-1

Client Sample ID: **OC-SB-528-1.0/3.0-XXX**

Lab Sample ID: 480-29598-8 | Date Sampled: 12/05/2012 1405
Client Matrix: Solid | % Moisture: 59.0 | Date Received: 12/05/2012 1815

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

Analysis Method:	8270D	Analysis Batch:	480-96347	Instrument ID:	HP5973X
Prep Method:	3546	Prep Batch:	480-95170	Lab File ID:	X3149.D
Dilution:	20			Initial Weight/Volume:	000030.8 g
Analysis Date:	12/18/2012 1951			Final Weight/Volume:	1 mL
Prep Date:	12/11/2012 0851			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,2,4-Trichlorobenzene		ND		480	1600
1,2-Dichlorobenzene		ND		480	1600
1,3-Dichlorobenzene		ND		480	1600
Benzaldehyde		ND		480	1600
1,4-Dichlorobenzene		ND		480	1600
2,2'-oxybis[1-chloropropane]		ND		480	1600
2,4,5-Trichlorophenol		ND		520	1600
2,4,6-Trichlorophenol		ND		670	1600
Benzyl alcohol		ND		480	3200
2,4-Dichlorophenol		ND		480	1600
2,4-Dimethylphenol		ND		480	1600
2,4-Dinitrophenol		ND	*	1300	1600
2,4-Dinitrotoluene		ND		480	1600
4-Nitroaniline		ND		1300	7900
2,6-Dinitrotoluene		ND		1300	1600
2-Chloronaphthalene		ND	*	480	1600
2-Chlorophenol		ND		480	1600
N-Nitrosodiphenylamine		ND		480	1600
2-Methylnaphthalene		ND		480	1600
2-Methylphenol		ND		480	1600
2-Nitrophenol		ND		620	1600
3 & 4 Methylphenol		ND		480	1600
3,3'-Dichlorobenzidine		ND		570	3200
2-Nitroaniline		ND		2000	7900
4-Bromophenyl phenyl ether		ND		480	1600
Hexachlorocyclopentadiene		ND		480	3200
4-Chloroaniline		ND		1400	3200
4-Nitrophenol		ND	*	670	7900
Acenaphthene		ND		480	1600
4,6-Dinitro-2-methylphenol		ND		1500	7900
1,2,4,5-Tetrachlorobenzene		ND		480	1600
Acenaphthylene		ND		480	1600
Acetophenone		ND		480	1600
Aniline		ND		480	1600
Anthracene		ND		480	1600
Atrazine		ND		480	1600
Azobenzene		ND		480	1600
Benzo[a]anthracene		ND		480	1600
Benzo[a]pyrene		ND		480	1600
Benzo[b]fluoranthene		ND		480	1600
Benzo[g,h,i]perylene		ND		480	1600
Caprolactam		ND		480	1600
3-Nitroaniline		ND		480	7900
Benzo[k]fluoranthene		ND		810	1600
Bis(2-chloroethoxy)methane		ND		480	1600
1,1'-Biphenyl		ND		480	1600

Client: Olin Corporation

Job Number: 480-29598-1

Client Sample ID: **OC-SB-528-1.0/3.0-XXX**

Lab Sample ID: 480-29598-8

Client Matrix: Solid

% Moisture: 59.0

Date Sampled: 12/05/2012 1405

Date Received: 12/05/2012 1815

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

Analysis Method:	8270D	Analysis Batch:	480-96347	Instrument ID:	HP5973X
Prep Method:	3546	Prep Batch:	480-95170	Lab File ID:	X3149.D
Dilution:	20			Initial Weight/Volume:	000030.8 g
Analysis Date:	12/18/2012 1951			Final Weight/Volume:	1 mL
Prep Date:	12/11/2012 0851			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Bis(2-chloroethyl)ether		ND		480	1600
Bis(2-ethylhexyl) phthalate		11000		3200	7900
Butyl benzyl phthalate		ND		480	1600
Chrysene		ND		480	1600
N-Nitrosodi-n-propylamine		ND		480	1600
Benzoic acid		ND		710	7900
Dibenz(a,h)anthracene		ND		480	1600
Dibenzofuran		ND		480	1600
Diethyl phthalate		ND		520	1600
Dimethyl phthalate		ND		480	1600
Di-n-butyl phthalate		ND		2400	7900
Di-n-octyl phthalate		ND		480	1600
Phenyl ether		820	J	480	1600
2,3,4,6-Tetrachlorophenol		ND		480	1600
Fluoranthene		ND		480	1600
4-Chloro-3-methylphenol		ND		480	3200
Fluorene		ND		480	1600
4-Chlorophenyl phenyl ether		ND		480	1600
Hexachlorobenzene		ND		480	1600
Hexachlorobutadiene		ND		480	1600
Hexachloroethane		ND		480	1600
Indeno[1,2,3-cd]pyrene		ND	*	480	1600
Isophorone		ND		480	1600
Naphthalene		ND		480	1600
Nitrobenzene		ND		480	1600
Pentachlorophenol		ND		480	1600
Phenanthrene		ND		480	1600
Benzophenone		ND		480	1600
Phenol		ND		480	1600
Pyrene		ND		480	1600
N-Nitrosodimethylamine		ND		480	1600
Carbazole		ND		480	1600
1-Methylnaphthalene		ND		480	1600
4-Methylphenol		ND		480	1600

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: 480-29598-1

Client Sample ID: **OC-SB-528-1.0/3.0-XXX**

Lab Sample ID: 480-29598-8

Client Matrix: Solid

% Moisture: 59.0

Date Sampled: 12/05/2012 1405

Date Received: 12/05/2012 1815

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

Analysis Method:	8270D	Analysis Batch:	480-96347	Instrument ID:	HP5973X
Prep Method:	3546	Prep Batch:	480-95170	Lab File ID:	X3149.D
Dilution:	20			Initial Weight/Volume:	000030.8 g
Analysis Date:	12/18/2012 1951			Final Weight/Volume:	1 mL
Prep Date:	12/11/2012 0851			Injection Volume:	1 uL

Tentatively Identified Compounds **Number TIC's Found:** **5**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	4.15	29000	T J N
123-48-8	3-Heptene, 2,2,4,6,6-pentamethyl-	9.61	26000	T J N
4390-4-9	Nonane, 2,2,4,4,6,8,8-heptamethyl-	9.73	15000	T J N
313-87-1	8H-Dinaphtho[2,3-c:2',3'-g]carbazole	18.12	820	T J N
22611-26-3	D:C-Friedoolean-8-en-3-one	18.78	830	T J N

Client: Olin Corporation | Job Number: 480-29598-1

Client Sample ID: **OC-SB-529-0.0/1.0-XXX**

Lab Sample ID: 480-29598-9 | Date Sampled: 12/05/2012 1230
Client Matrix: Solid | % Moisture: 40.6 | Date Received: 12/05/2012 1815

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

Analysis Method:	8270D	Analysis Batch:	480-96347	Instrument ID:	HP5973X
Prep Method:	3546	Prep Batch:	480-95170	Lab File ID:	X3150.D
Dilution:	1.0			Initial Weight/Volume:	000030.1 g
Analysis Date:	12/18/2012 2016			Final Weight/Volume:	1 mL
Prep Date:	12/11/2012 0851			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,2,4-Trichlorobenzene		ND		17	56
1,2-Dichlorobenzene		ND		17	56
1,3-Dichlorobenzene		ND		17	56
Benzaldehyde		97		17	56
1,4-Dichlorobenzene		ND		17	56
2,2'-oxybis[1-chloropropane]		ND		17	56
2,4,5-Trichlorophenol		ND		18	56
2,4,6-Trichlorophenol		ND		23	56
Benzyl alcohol		ND		17	110
2,4-Dichlorophenol		ND		17	56
2,4-Dimethylphenol		ND		17	56
2,4-Dinitrophenol		ND	*	45	56
2,4-Dinitrotoluene		ND		17	56
4-Nitroaniline		ND		47	280
2,6-Dinitrotoluene		ND		47	56
2-Chloronaphthalene		ND	*	17	56
2-Chlorophenol		ND		17	56
N-Nitrosodiphenylamine		ND		17	56
2-Methylnaphthalene		ND		17	56
2-Methylphenol		ND		17	56
2-Nitrophenol		ND		22	56
3 & 4 Methylphenol		ND		17	56
3,3'-Dichlorobenzidine		ND		20	110
2-Nitroaniline		ND		70	280
4-Bromophenyl phenyl ether		ND		17	56
Hexachlorocyclopentadiene		ND		17	110
4-Chloroaniline		ND		50	110
4-Nitrophenol		ND	*	23	280
Acenaphthene		ND		17	56
4,6-Dinitro-2-methylphenol		ND		54	280
1,2,4,5-Tetrachlorobenzene		ND		17	56
Acenaphthylene		ND		17	56
Acetophenone		18	J	17	56
Aniline		ND		17	56
Anthracene		ND		17	56
Atrazine		ND		17	56
Azobenzene		ND		17	56
Benzo[a]anthracene		ND		17	56
Benzo[a]pyrene		ND		17	56
Benzo[b]fluoranthene		ND		17	56
Benzo[g,h,i]perylene		ND		17	56
Caprolactam		ND		17	56
3-Nitroaniline		ND		17	280
Benzo[k]fluoranthene		ND		29	56
Bis(2-chloroethoxy)methane		ND		17	56
1,1'-Biphenyl		ND		17	56

Client: Olin Corporation

Job Number: 480-29598-1

Client Sample ID: **OC-SB-529-0.0/1.0-XXX**

Lab Sample ID: 480-29598-9

Client Matrix: Solid

% Moisture: 40.6

Date Sampled: 12/05/2012 1230

Date Received: 12/05/2012 1815

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

Analysis Method:	8270D	Analysis Batch:	480-96347	Instrument ID:	HP5973X
Prep Method:	3546	Prep Batch:	480-95170	Lab File ID:	X3150.D
Dilution:	1.0			Initial Weight/Volume:	000030.1 g
Analysis Date:	12/18/2012 2016			Final Weight/Volume:	1 mL
Prep Date:	12/11/2012 0851			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Bis(2-chloroethyl)ether		ND		17	56
Bis(2-ethylhexyl) phthalate		ND		110	280
Butyl benzyl phthalate		ND		17	56
Chrysene		ND		17	56
N-Nitrosodi-n-propylamine		ND		17	56
Benzoic acid		ND		25	280
Dibenz(a,h)anthracene		ND		17	56
Dibenzofuran		ND		17	56
Diethyl phthalate		ND		18	56
Dimethyl phthalate		ND		17	56
Di-n-butyl phthalate		ND		84	280
Di-n-octyl phthalate		ND		17	56
Phenyl ether		ND		17	56
2,3,4,6-Tetrachlorophenol		ND		17	56
Fluoranthene		18	J	17	56
4-Chloro-3-methylphenol		ND		17	110
Fluorene		ND		17	56
4-Chlorophenyl phenyl ether		ND		17	56
Hexachlorobenzene		ND		17	56
Hexachlorobutadiene		ND		17	56
Hexachloroethane		ND		17	56
Indeno[1,2,3-cd]pyrene		ND	*	17	56
Isophorone		ND		17	56
Naphthalene		26	J	17	56
Nitrobenzene		ND		17	56
Pentachlorophenol		ND		17	56
Phenanthrene		23	J	17	56
Benzophenone		ND		17	56
Phenol		24	J	17	56
Pyrene		ND		17	56
N-Nitrosodimethylamine		ND		17	56
Carbazole		ND		17	56
1-Methylnaphthalene		ND		17	56
4-Methylphenol		ND		17	56

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	71		30 - 130
2-Fluorophenol	59		30 - 130
Nitrobenzene-d5	60		30 - 130
Phenol-d5	83		30 - 130
2-Fluorobiphenyl	68		30 - 130
p-Terphenyl-d14	63		30 - 130

Client: Olin Corporation

Job Number: 480-29598-1

Client Sample ID: **OC-SB-529-0.0/1.0-XXX**

Lab Sample ID: 480-29598-9

Client Matrix: Solid

% Moisture: 40.6

Date Sampled: 12/05/2012 1230

Date Received: 12/05/2012 1815

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

Analysis Method:	8270D	Analysis Batch:	480-96347	Instrument ID:	HP5973X
Prep Method:	3546	Prep Batch:	480-95170	Lab File ID:	X3150.D
Dilution:	1.0			Initial Weight/Volume:	000030.1 g
Analysis Date:	12/18/2012 2016			Final Weight/Volume:	1 mL
Prep Date:	12/11/2012 0851			Injection Volume:	1 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
498-60-2	3-Furaldehyde	4.05	1000	T J N
17429-4-8	2-Pentanone, 5-methoxy-	4.20	7700	T J N
121-33-5	Vanillin	10.37	360	T J N
121-34-6	Benzoic acid, 4-hydroxy-3-methoxy-	11.67	620	T J N
57-10-3	n-Hexadecanoic acid	13.77	810	T J N
112-79-8	9-Octadecenoic acid, (E)-	14.47	590	T J N
630-3-5	Nonacosane	16.67	1300	T J N
77899-10-6	(Z)14-Tricosenyl formate	17.11	520	T J N
630-4-6	Hentriacontane	17.28	1100	T J N
1000158-8-0	.beta.-Humulene	18.77	360	T J N

Client: Olin Corporation | Job Number: 480-29598-1

Client Sample ID: **OC-SB-529-1.0/3.0-XXX**

Lab Sample ID: 480-29598-10 | Date Sampled: 12/05/2012 1235
Client Matrix: Solid | % Moisture: 20.8 | Date Received: 12/05/2012 1815

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

Analysis Method:	8270D	Analysis Batch:	480-96347	Instrument ID:	HP5973X
Prep Method:	3546	Prep Batch:	480-95170	Lab File ID:	X3151.D
Dilution:	1.0			Initial Weight/Volume:	000030.1 g
Analysis Date:	12/18/2012 2042			Final Weight/Volume:	1 mL
Prep Date:	12/11/2012 0851			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,2,4-Trichlorobenzene		ND		13	42
1,2-Dichlorobenzene		ND		13	42
1,3-Dichlorobenzene		ND		13	42
Benzaldehyde		ND		13	42
1,4-Dichlorobenzene		ND		13	42
2,2'-oxybis[1-chloropropane]		ND		13	42
2,4,5-Trichlorophenol		ND		14	42
2,4,6-Trichlorophenol		ND		18	42
Benzyl alcohol		ND		13	84
2,4-Dichlorophenol		ND		13	42
2,4-Dimethylphenol		ND		13	42
2,4-Dinitrophenol		ND	*	34	42
2,4-Dinitrotoluene		ND		13	42
4-Nitroaniline		ND		35	210
2,6-Dinitrotoluene		ND		35	42
2-Chloronaphthalene		ND	*	13	42
2-Chlorophenol		ND		13	42
N-Nitrosodiphenylamine		ND		13	42
2-Methylnaphthalene		ND		13	42
2-Methylphenol		ND		13	42
2-Nitrophenol		ND		16	42
3 & 4 Methylphenol		ND		13	42
3,3'-Dichlorobenzidine		ND		15	84
2-Nitroaniline		ND		53	210
4-Bromophenyl phenyl ether		ND		13	42
Hexachlorocyclopentadiene		ND		13	84
4-Chloroaniline		ND		38	84
4-Nitrophenol		ND	*	18	210
Acenaphthene		ND		13	42
4,6-Dinitro-2-methylphenol		ND		40	210
1,2,4,5-Tetrachlorobenzene		ND		13	42
Acenaphthylene		ND		13	42
Acetophenone		ND		13	42
Aniline		ND		13	42
Anthracene		ND		13	42
Atrazine		ND		13	42
Azobenzene		ND		13	42
Benzo[a]anthracene		ND		13	42
Benzo[a]pyrene		ND		13	42
Benzo[b]fluoranthene		ND		13	42
Benzo[g,h,i]perylene		ND		13	42
Caprolactam		ND		13	42
3-Nitroaniline		ND		13	210
Benzo[k]fluoranthene		ND		21	42
Bis(2-chloroethoxy)methane		ND		13	42
1,1'-Biphenyl		ND		13	42

Client: Olin Corporation

Job Number: 480-29598-1

Client Sample ID: **OC-SB-529-1.0/3.0-XXX**

Lab Sample ID: 480-29598-10

Client Matrix: Solid

% Moisture: 20.8

Date Sampled: 12/05/2012 1235

Date Received: 12/05/2012 1815

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

Analysis Method:	8270D	Analysis Batch:	480-96347	Instrument ID:	HP5973X
Prep Method:	3546	Prep Batch:	480-95170	Lab File ID:	X3151.D
Dilution:	1.0			Initial Weight/Volume:	000030.1 g
Analysis Date:	12/18/2012 2042			Final Weight/Volume:	1 mL
Prep Date:	12/11/2012 0851			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Bis(2-chloroethyl)ether		ND		13	42
Bis(2-ethylhexyl) phthalate		ND		84	210
Butyl benzyl phthalate		ND		13	42
Chrysene		ND		13	42
N-Nitrosodi-n-propylamine		ND		13	42
Benzoic acid		ND		19	210
Dibenz(a,h)anthracene		ND		13	42
Dibenzofuran		ND		13	42
Diethyl phthalate		ND		14	42
Dimethyl phthalate		ND		13	42
Di-n-butyl phthalate		ND		63	210
Di-n-octyl phthalate		ND		13	42
Phenyl ether		ND		13	42
2,3,4,6-Tetrachlorophenol		ND		13	42
Fluoranthene		ND		13	42
4-Chloro-3-methylphenol		ND		13	84
Fluorene		ND		13	42
4-Chlorophenyl phenyl ether		ND		13	42
Hexachlorobenzene		ND		13	42
Hexachlorobutadiene		ND		13	42
Hexachloroethane		ND		13	42
Indeno[1,2,3-cd]pyrene		ND	*	13	42
Isophorone		ND		13	42
Naphthalene		ND		13	42
Nitrobenzene		ND		13	42
Pentachlorophenol		ND		13	42
Phenanthrene		ND		13	42
Benzophenone		ND		13	42
Phenol		ND		13	42
Pyrene		ND		13	42
N-Nitrosodimethylamine		ND		13	42
Carbazole		ND		13	42
1-Methylnaphthalene		ND		13	42
4-Methylphenol		ND		13	42

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	63		30 - 130
2-Fluorophenol	53		30 - 130
Nitrobenzene-d5	53		30 - 130
Phenol-d5	48		30 - 130
2-Fluorobiphenyl	57		30 - 130
p-Terphenyl-d14	71		30 - 130

Client: Olin Corporation

Job Number: 480-29598-1

Client Sample ID: **OC-SB-529-1.0/3.0-XXX**

Lab Sample ID: 480-29598-10

Client Matrix: Solid

% Moisture: 20.8

Date Sampled: 12/05/2012 1235

Date Received: 12/05/2012 1815

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

Analysis Method:	8270D	Analysis Batch:	480-96347	Instrument ID:	HP5973X
Prep Method:	3546	Prep Batch:	480-95170	Lab File ID:	X3151.D
Dilution:	1.0			Initial Weight/Volume:	000030.1 g
Analysis Date:	12/18/2012 2042			Final Weight/Volume:	1 mL
Prep Date:	12/11/2012 0851			Injection Volume:	1 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
828-0-2	Dimethoxane	3.82	180	T J N
17429-4-8	2-Pentanone, 5-methoxy-	4.20	9600	T J N
42779-8-8	Octane, 1-(ethenylthio)-	4.22	43	T J N
40499-83-0	3-Pyrrolidinol	5.23	51	T J N
57-10-3	n-Hexadecanoic acid	13.76	98	T J N
37643-19-9	Cyclopropylidene-3,3-dimethylcyclohex-5-	15.29	390	T J N
6765-39-5	1-Heptadecene	16.31	97	T J N
111-2-4	2,6,10,14,18,22-Tetracosahexaene, 2,6,10	16.46	46	T J N
3386-33-2	Octadecane, 1-chloro-	16.67	36	T J N
1000151-99-7	Cycloisolongifolene	18.47	47	T J N

Client: Olin Corporation

Job Number: 480-29598-1

Client Sample ID: **OC-SB-528-0.0/1.0-XXX**

Lab Sample ID: 480-29598-7

Client Matrix: Solid

% Moisture: 73.0

Date Sampled: 12/05/2012 1400

Date Received: 12/05/2012 1815

Organotins/GC Organotins (GC/FPD)

Analysis Method:	Organotins/GC	Analysis Batch:	200-49448	Instrument ID:	2860.i
Prep Method:	3550C	Prep Batch:	200-49268	Initial Weight/Volume:	30.42 g
Dilution:	1.0			Final Weight/Volume:	1000 uL
Analysis Date:	12/11/2012 2305			Injection Volume:	1.5 uL
Prep Date:	12/10/2012 1810			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Tributyltin		ND		2.4	5.5

Surrogate	%Rec	Qualifier	Acceptance Limits
Tripentyltin	83		30 - 120

Client: Olin Corporation

Job Number: 480-29598-1

Client Sample ID: **OC-SB-528-0.0/1.0-XXX**

Lab Sample ID:	480-29598-7			Date Sampled:	12/05/2012 1400
Client Matrix:	Solid	% Moisture:	73.0	Date Received:	12/05/2012 1815

Organotins/GC Organotins (GC/FPD)

Analysis Method:	Organotins/GC	Analysis Batch:	200-49448	Instrument ID:	2860.i
Prep Method:	3550C	Prep Batch:	200-49268	Initial Weight/Volume:	30.42 g
Dilution:	1.0			Final Weight/Volume:	1000 uL
Analysis Date:	12/11/2012 2305			Injection Volume:	1.5 uL
Prep Date:	12/10/2012 1810			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
Tripentyltin	92		30 - 120

Client: Olin Corporation

Job Number: 480-29598-1

Client Sample ID: **OC-SB-528-1.0/3.0-XXX**

Lab Sample ID: 480-29598-8

Client Matrix: Solid

% Moisture: 59.0

Date Sampled: 12/05/2012 1405

Date Received: 12/05/2012 1815

Organotins/GC Organotins (GC/FPD)

Analysis Method:	Organotins/GC	Analysis Batch:	200-50011	Instrument ID:	2860.i
Prep Method:	3550C	Prep Batch:	200-49894	Initial Weight/Volume:	29.37 g
Dilution:	1.0			Final Weight/Volume:	1000 uL
Analysis Date:	12/26/2012 1220			Injection Volume:	1.5 uL
Prep Date:	12/22/2012 0812			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Tributyltin		ND		1.7	3.7

Surrogate	%Rec	Qualifier	Acceptance Limits
Tripentyltin	69		30 - 120

Client: Olin Corporation

Job Number: 480-29598-1

Client Sample ID: **OC-SB-528-1.0/3.0-XXX**

Lab Sample ID:	480-29598-8			Date Sampled:	12/05/2012 1405
Client Matrix:	Solid	% Moisture:	59.0	Date Received:	12/05/2012 1815

Organotins/GC Organotins (GC/FPD)

Analysis Method:	Organotins/GC	Analysis Batch:	200-50011	Instrument ID:	2860.i
Prep Method:	3550C	Prep Batch:	200-49894	Initial Weight/Volume:	29.37 g
Dilution:	1.0			Final Weight/Volume:	1000 uL
Analysis Date:	12/26/2012 1220			Injection Volume:	1.5 uL
Prep Date:	12/22/2012 0812			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
Tripentyltin	81		30 - 120

Client: Olin Corporation

Job Number: 480-29598-1

Client Sample ID: **OC-DUP-2**

Lab Sample ID: 480-29598-11

Client Matrix: Solid

% Moisture: 53.5

Date Sampled: 12/05/2012 0000

Date Received: 12/05/2012 1815

Organotins/GC Organotins (GC/FPD)

Analysis Method:	Organotins/GC	Analysis Batch:	200-49448	Instrument ID:	2860.i
Prep Method:	3550C	Prep Batch:	200-49268	Initial Weight/Volume:	30.44 g
Dilution:	1.0			Final Weight/Volume:	1000 uL
Analysis Date:	12/11/2012 2339			Injection Volume:	1.5 uL
Prep Date:	12/10/2012 1810			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Tributyltin		ND		1.4	3.2

Surrogate	%Rec	Qualifier	Acceptance Limits
Tripentyltin	81		30 - 120

Client: Olin Corporation

Job Number: 480-29598-1

Client Sample ID: **OC-DUP-2**

Lab Sample ID: 480-29598-11

Client Matrix: Solid

% Moisture: 53.5

Date Sampled: 12/05/2012 0000

Date Received: 12/05/2012 1815

Organotins/GC Organotins (GC/FPD)

Analysis Method:	Organotins/GC	Analysis Batch:	200-49448	Instrument ID:	2860.i
Prep Method:	3550C	Prep Batch:	200-49268	Initial Weight/Volume:	30.44 g
Dilution:	1.0			Final Weight/Volume:	1000 uL
Analysis Date:	12/11/2012 2339			Injection Volume:	1.5 uL
Prep Date:	12/10/2012 1810			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
Tripentyltin	82		30 - 120

Client: Olin Corporation

Job Number: 480-29598-1

Client Sample ID: **OC-SB-528-0.0/1.0-XXX**

Lab Sample ID: 480-29598-7

Client Matrix: Solid

% Moisture: 73.0

Date Sampled: 12/05/2012 1400

Date Received: 12/05/2012 1815

6010 Metals (ICP)

Analysis Method:	6010	Analysis Batch:	480-97273	Instrument ID:	ICAP1
Prep Method:	3050B	Prep Batch:	480-97077	Lab File ID:	I1122112A-7.asc
Dilution:	1.0			Initial Weight/Volume:	+0.4634 g
Analysis Date:	12/21/2012 1941			Final Weight/Volume:	50 mL
Prep Date:	12/21/2012 1230				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Tin		7.5	J ^	1.7	8.0

Client: Olin Corporation

Job Number: 480-29598-1

Client Sample ID: **OC-SB-528-1.0/3.0-XXX**

Lab Sample ID: 480-29598-8

Client Matrix: Solid

% Moisture: 59.0

Date Sampled: 12/05/2012 1405

Date Received: 12/05/2012 1815

6010 Metals (ICP)

Analysis Method:	6010	Analysis Batch:	480-97273	Instrument ID:	ICAP1
Prep Method:	3050B	Prep Batch:	480-97077	Lab File ID:	I1122112A-7.asc
Dilution:	1.0			Initial Weight/Volume:	+0.4662 g
Analysis Date:	12/21/2012 1943			Final Weight/Volume:	50 mL
Prep Date:	12/21/2012 1230				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Tin		2.4	J ^	1.1	5.2

Client: Olin Corporation

Job Number: 480-29598-1

Client Sample ID: **OC-DUP-2**

Lab Sample ID: 480-29598-11

Client Matrix: Solid

% Moisture: 53.5

Date Sampled: 12/05/2012 0000

Date Received: 12/05/2012 1815

6010 Metals (ICP)

Analysis Method:	6010	Analysis Batch:	480-97273	Instrument ID:	ICAP1
Prep Method:	3050B	Prep Batch:	480-97077	Lab File ID:	I1122112A-7.asc
Dilution:	1.0			Initial Weight/Volume:	+0.4994 g
Analysis Date:	12/21/2012 2000			Final Weight/Volume:	50 mL
Prep Date:	12/21/2012 1230				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Tin		2.1	J ^	0.93	4.3

General Chemistry

Client Sample ID: **OC-SS-524-0.0/1.0-XXX**

Lab Sample ID: 480-29598-1 Date Sampled: 12/05/2012 0920

Client Matrix: Solid % Moisture: 54.7 Date Received: 12/05/2012 1815

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chromium (hexavalent)	ND		mg/Kg	3.2	4.4	10	7199
Analysis Batch: 460-139572	Analysis Date: 12/13/2012 0025						DryWt Corrected: Y
Prep Batch: 460-139400	Prep Date: 12/12/2012 1154						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	3.36		SU	1.00	1.00	1.0	9045C
Analysis Batch: 360-97368	Analysis Date: 12/06/2012 0909						DryWt Corrected: N
Percent Moisture	55		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-138869	Analysis Date: 12/09/2012 1155						DryWt Corrected: N
Percent Solids	45		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-138869	Analysis Date: 12/09/2012 1155						DryWt Corrected: N
Oxidation Reduction Potential-Soluble	110		millivolts	0.010	0.010	1.0	SM 2580B
Analysis Batch: 360-97369	Analysis Date: 12/06/2012 0909						DryWt Corrected: N

General Chemistry

Client Sample ID: **OC-SS-525-0.0/1.0-XXX**

Lab Sample ID: 480-29598-2 Date Sampled: 12/05/2012 0945
Client Matrix: Solid % Moisture: 34.0 Date Received: 12/05/2012 1815

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chromium (hexavalent)	ND		mg/Kg	2.2	3.0	10	7199
Analysis Batch: 460-139572	Analysis Date: 12/13/2012 0050						DryWt Corrected: Y
Prep Batch: 460-139400	Prep Date: 12/12/2012 1154						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	4.07		SU	1.00	1.00	1.0	9045C
Analysis Batch: 360-97368	Analysis Date: 12/06/2012 0915						DryWt Corrected: N
Percent Moisture	34		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-138869	Analysis Date: 12/09/2012 1155						DryWt Corrected: N
Percent Solids	66		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-138869	Analysis Date: 12/09/2012 1155						DryWt Corrected: N
Oxidation Reduction Potential-Soluble	99		millivolts	0.010	0.010	1.0	SM 2580B
Analysis Batch: 360-97369	Analysis Date: 12/06/2012 0915						DryWt Corrected: N

General Chemistry

Client Sample ID: **OC-SB-526-0.0/1.0-XXX**

Lab Sample ID: 480-29598-3 Date Sampled: 12/05/2012 1040

Client Matrix: Solid % Moisture: 41.6 Date Received: 12/05/2012 1815

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chromium (hexavalent)	ND		mg/Kg	2.5	3.4	10	7199
Analysis Batch: 460-139572	Analysis Date: 12/13/2012 0123						DryWt Corrected: Y
Prep Batch: 460-139400	Prep Date: 12/12/2012 1154						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	4.04		SU	1.00	1.00	1.0	9045C
Analysis Batch: 360-97368	Analysis Date: 12/06/2012 0924						DryWt Corrected: N
Percent Moisture	42		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-138871	Analysis Date: 12/09/2012 1215						DryWt Corrected: N
Percent Solids	58		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-138871	Analysis Date: 12/09/2012 1215						DryWt Corrected: N
Oxidation Reduction Potential-Soluble	75		millivolts	0.010	0.010	1.0	SM 2580B
Analysis Batch: 360-97369	Analysis Date: 12/06/2012 0924						DryWt Corrected: N

General Chemistry

Client Sample ID: **OC-SB-526-1.0/3.0-XXX**

Lab Sample ID: 480-29598-4 Date Sampled: 12/05/2012 1045

Client Matrix: Solid % Moisture: 25.1 Date Received: 12/05/2012 1815

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chromium (hexavalent)	ND		mg/Kg	1.9	2.7	10	7199
Analysis Batch: 460-139572	Analysis Date: 12/12/2012 2246						DryWt Corrected: Y
Prep Batch: 460-139400	Prep Date: 12/12/2012 1154						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	4.33		SU	1.00	1.00	1.0	9045C
Analysis Batch: 360-97368	Analysis Date: 12/06/2012 0928						DryWt Corrected: N
Percent Moisture	25		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-138871	Analysis Date: 12/09/2012 1215						DryWt Corrected: N
Percent Solids	75		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-138871	Analysis Date: 12/09/2012 1215						DryWt Corrected: N
Oxidation Reduction Potential-Soluble	82		millivolts	0.010	0.010	1.0	SM 2580B
Analysis Batch: 360-97369	Analysis Date: 12/06/2012 0928						DryWt Corrected: N

General Chemistry

Client Sample ID: **OC-SB-527-0.0/1.0-XXX**

Lab Sample ID: 480-29598-5 Date Sampled: 12/05/2012 1335

Client Matrix: Solid % Moisture: 29.6 Date Received: 12/05/2012 1815

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chromium (hexavalent)	ND		mg/Kg	2.1	2.9	10	7199
Analysis Batch: 460-139572	Analysis Date: 12/13/2012 0131						DryWt Corrected: Y
Prep Batch: 460-139400	Prep Date: 12/12/2012 1154						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	3.73		SU	1.00	1.00	1.0	9045C
Analysis Batch: 360-97368	Analysis Date: 12/06/2012 0932						DryWt Corrected: N
Percent Moisture	30		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-138871	Analysis Date: 12/09/2012 1215						DryWt Corrected: N
Percent Solids	70		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-138871	Analysis Date: 12/09/2012 1215						DryWt Corrected: N
Oxidation Reduction Potential-Soluble	79		millivolts	0.010	0.010	1.0	SM 2580B
Analysis Batch: 360-97369	Analysis Date: 12/06/2012 0932						DryWt Corrected: N

General Chemistry

Client Sample ID: **OC-SB-527-1.0/3.0-XXX**

Lab Sample ID: 480-29598-6 Date Sampled: 12/05/2012 1340
Client Matrix: Solid % Moisture: 31.9 Date Received: 12/05/2012 1815

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chromium (hexavalent)	ND		mg/Kg	2.1	2.9	10	7199
Analysis Batch: 460-139572	Analysis Date: 12/13/2012 0148						DryWt Corrected: Y
Prep Batch: 460-139400	Prep Date: 12/12/2012 1154						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	3.85		SU	1.00	1.00	1.0	9045C
Analysis Batch: 360-97368	Analysis Date: 12/06/2012 0938						DryWt Corrected: N
Percent Moisture	32		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-138871	Analysis Date: 12/09/2012 1215						DryWt Corrected: N
Percent Solids	68		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-138871	Analysis Date: 12/09/2012 1215						DryWt Corrected: N
Oxidation Reduction Potential-Soluble	73		millivolts	0.010	0.010	1.0	SM 2580B
Analysis Batch: 360-97369	Analysis Date: 12/06/2012 0938						DryWt Corrected: N

General Chemistry

Client Sample ID: **OC-SB-528-0.0/1.0-XXX**

Lab Sample ID: 480-29598-7 Date Sampled: 12/05/2012 1400
Client Matrix: Solid % Moisture: 73.0 Date Received: 12/05/2012 1815

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chromium (hexavalent)	19		mg/Kg	5.6	7.7	10	7199
Analysis Batch: 460-139572	Analysis Date: 12/13/2012 0205						DryWt Corrected: Y
Prep Batch: 460-139400	Prep Date: 12/12/2012 1154						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	6.02		SU	1.00	1.00	1.0	9045C
Analysis Batch: 360-97368	Analysis Date: 12/06/2012 0942						DryWt Corrected: N
Percent Moisture	73		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-138871	Analysis Date: 12/09/2012 1215						DryWt Corrected: N
Percent Solids	27		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-138871	Analysis Date: 12/09/2012 1215						DryWt Corrected: N
Oxidation Reduction Potential-Soluble	ND		millivolts	0.010	0.010	1.0	SM 2580B
Analysis Batch: 360-97369	Analysis Date: 12/06/2012 0942						DryWt Corrected: N

General Chemistry

Client Sample ID: **OC-SB-528-1.0/3.0-XXX**

Lab Sample ID: 480-29598-8 Date Sampled: 12/05/2012 1405

Client Matrix: Solid % Moisture: 59.0 Date Received: 12/05/2012 1815

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chromium (hexavalent)	4.0	J	mg/Kg	3.5	4.8	10	7199
Analysis Batch: 460-139572	Analysis Date: 12/13/2012 0221						DryWt Corrected: Y
Prep Batch: 460-139400	Prep Date: 12/12/2012 1154						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	6.15		SU	1.00	1.00	1.0	9045C
Analysis Batch: 360-97368	Analysis Date: 12/06/2012 0946						DryWt Corrected: N
Percent Moisture	59		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-138871	Analysis Date: 12/09/2012 1215						DryWt Corrected: N
Percent Solids	41		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-138871	Analysis Date: 12/09/2012 1215						DryWt Corrected: N
Oxidation Reduction Potential-Soluble	ND		millivolts	0.010	0.010	1.0	SM 2580B
Analysis Batch: 360-97369	Analysis Date: 12/06/2012 0946						DryWt Corrected: N

General Chemistry

Client Sample ID: **OC-SB-529-0.0/1.0-XXX**

Lab Sample ID: 480-29598-9 Date Sampled: 12/05/2012 1230

Client Matrix: Solid % Moisture: 40.6 Date Received: 12/05/2012 1815

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chromium (hexavalent)	ND		mg/Kg	2.4	3.3	10	7199
Analysis Batch: 460-139572	Analysis Date: 12/13/2012 0843						DryWt Corrected: Y
Prep Batch: 460-139400	Prep Date: 12/12/2012 1154						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	3.88		SU	1.00	1.00	1.0	9045C
Analysis Batch: 360-97368	Analysis Date: 12/06/2012 0951						DryWt Corrected: N
Percent Moisture	41		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-138871	Analysis Date: 12/09/2012 1215						DryWt Corrected: N
Percent Solids	59		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-138871	Analysis Date: 12/09/2012 1215						DryWt Corrected: N
Oxidation Reduction Potential-Soluble	49		millivolts	0.010	0.010	1.0	SM 2580B
Analysis Batch: 360-97369	Analysis Date: 12/06/2012 0951						DryWt Corrected: N

General Chemistry

Client Sample ID: **OC-SB-529-1.0/3.0-XXX**

Lab Sample ID: 480-29598-10 Date Sampled: 12/05/2012 1235

Client Matrix: Solid % Moisture: 20.8 Date Received: 12/05/2012 1815

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chromium (hexavalent)	ND		mg/Kg	1.8	2.4	10	7199
Analysis Batch: 460-139572	Analysis Date: 12/13/2012 0900						DryWt Corrected: Y
Prep Batch: 460-139400	Prep Date: 12/12/2012 1154						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH-Soluble	4.24		SU	1.00	1.00	1.0	9045C
Analysis Batch: 360-97368	Analysis Date: 12/06/2012 1001						DryWt Corrected: N
Percent Moisture	21		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-138871	Analysis Date: 12/09/2012 1215						DryWt Corrected: N
Percent Solids	79		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-138871	Analysis Date: 12/09/2012 1215						DryWt Corrected: N
Oxidation Reduction Potential-Soluble	34		millivolts	0.010	0.010	1.0	SM 2580B
Analysis Batch: 360-97369	Analysis Date: 12/06/2012 1001						DryWt Corrected: N

General Chemistry

Client Sample ID: **OC-DUP-2**

Lab Sample ID: 480-29598-11

Client Matrix: Solid

Date Sampled: 12/05/2012 0000

Date Received: 12/05/2012 1815

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	54		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-94744	Analysis Date: 12/07/2012 1501						DryWt Corrected: N
Percent Solids	46		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-94744	Analysis Date: 12/07/2012 1501						DryWt Corrected: N

Client: Olin Corporation

Job Number: 480-29598-1

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
480-29598-3	OC-SB-526-0.0/1.0-XXX	54	65	55	60	59	55
480-29598-4	OC-SB-526-1.0/3.0-XXX	53	54	51	66	62	67
480-29598-7	OC-SB-528-0.0/1.0-XXX	0X	0X	0X	0X	0X	0X
480-29598-8	OC-SB-528-1.0/3.0-XXX	0X	0X	0X	0X	0X	0X
480-29598-9	OC-SB-529-0.0/1.0-XXX	59	83	60	68	71	63
480-29598-10	OC-SB-529-1.0/3.0-XXX	53	48	53	57	63	71
MB 480-95170/1-A		84	93	68	76	73	105
LCS 480-95170/2-A		77	80	83	89	76	100
LCSD 480-95170/3-A		71	71	86	85	53	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: 480-29598-1

Surrogate Recovery Report

Organotins/GC Organotins (GC/FPD)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	TPT1 %Rec	TPT2 %Rec
480-29598-7	OC-SB-528-0.0/1.0-XXX	92	83
480-29598-8	OC-SB-528-1.0/3.0-XXX	81	69
480-29598-11	OC-DUP-2	81	82
MB 200-49268/1-A		76	76
MB 200-49894/1-A		69	76
LCS 200-49268/2-A		84	77
LCS 200-49894/2-A		82	76
480-29598-8 MS	OC-SB-528-1.0/3.0-XXX MS	88	68
480-29598-8 MSD	OC-SB-528-1.0/3.0-XXX MSD	83	65

Surrogate	Acceptance Limits
TPT = Tripentyltin	30-120

Client: Olin Corporation

Job Number: 480-29598-1

Method Blank - Batch: 480-95170

Method: 8270D
Preparation: 3546

Lab Sample ID:	MB 480-95170/1-A	Analysis Batch:	480-96347	Instrument ID:	HP5973X
Client Matrix:	Solid	Prep Batch:	480-95170	Lab File ID:	X3143.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	000030.8 g
Analysis Date:	12/18/2012 1719	Units:	ug/Kg	Final Weight/Volume:	1 mL
Prep Date:	12/11/2012 0850			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,2,4-Trichlorobenzene	ND		9.7	32
1,2-Dichlorobenzene	ND		9.7	32
1,3-Dichlorobenzene	ND		9.7	32
Benzaldehyde	ND		9.7	32
1,4-Dichlorobenzene	ND		9.7	32
2,2'-oxybis[1-chloropropane]	ND		9.7	32
2,4,5-Trichlorophenol	ND		11	32
2,4,6-Trichlorophenol	ND		14	32
Benzyl alcohol	ND		9.7	65
2,4-Dichlorophenol	ND		9.7	32
2,4-Dimethylphenol	ND		9.7	32
2,4-Dinitrophenol	ND		26	32
2,4-Dinitrotoluene	ND		9.7	32
4-Nitroaniline	ND		27	160
2,6-Dinitrotoluene	ND		27	32
2-Chloronaphthalene	ND		9.7	32
2-Chlorophenol	ND		9.7	32
N-Nitrosodiphenylamine	ND		9.7	32
2-Methylnaphthalene	ND		9.7	32
2-Methylphenol	ND		9.7	32
2-Nitrophenol	ND		13	32
3 & 4 Methylphenol	ND		9.7	32
3,3'-Dichlorobenzidine	ND		12	65
2-Nitroaniline	ND		41	160
4-Bromophenyl phenyl ether	ND		9.7	32
Hexachlorocyclopentadiene	ND		9.7	65
4-Chloroaniline	ND		29	65
4-Nitrophenol	ND		14	160
Acenaphthene	ND		9.7	32
4,6-Dinitro-2-methylphenol	ND		31	160
1,2,4,5-Tetrachlorobenzene	ND		9.7	32
Acenaphthylene	ND		9.7	32
Acetophenone	ND		9.7	32
Aniline	ND		9.7	32
Anthracene	ND		9.7	32
Atrazine	ND		9.7	32
Azobenzene	ND		9.7	32
Benzo[a]anthracene	ND		9.7	32
Benzo[a]pyrene	ND		9.7	32
Benzo[b]fluoranthene	ND		9.7	32
Benzo[g,h,i]perylene	ND		9.7	32
Caprolactam	ND		9.7	32
3-Nitroaniline	ND		9.7	160
Benzo[k]fluoranthene	ND		17	32
Bis(2-chloroethoxy)methane	ND		9.7	32

Client: Olin Corporation

Job Number: 480-29598-1

Method Blank - Batch: 480-95170

Method: 8270D
Preparation: 3546

Lab Sample ID:	MB 480-95170/1-A	Analysis Batch:	480-96347	Instrument ID:	HP5973X
Client Matrix:	Solid	Prep Batch:	480-95170	Lab File ID:	X3143.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	000030.8 g
Analysis Date:	12/18/2012 1719	Units:	ug/Kg	Final Weight/Volume:	1 mL
Prep Date:	12/11/2012 0850			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1'-Biphenyl	ND		9.7	32
Bis(2-chloroethyl)ether	ND		9.7	32
Bis(2-ethylhexyl) phthalate	ND		65	160
Butyl benzyl phthalate	ND		9.7	32
Chrysene	ND		9.7	32
N-Nitrosodi-n-propylamine	ND		9.7	32
Benzoic acid	ND		15	160
Dibenz(a,h)anthracene	ND		9.7	32
Dibenzofuran	ND		9.7	32
Diethyl phthalate	ND		11	32
Dimethyl phthalate	ND		9.7	32
Di-n-butyl phthalate	ND		49	160
Di-n-octyl phthalate	ND		9.7	32
Phenyl ether	ND		9.7	32
2,3,4,6-Tetrachlorophenol	ND		9.7	32
Fluoranthene	ND		9.7	32
4-Chloro-3-methylphenol	ND		9.7	65
Fluorene	ND		9.7	32
4-Chlorophenyl phenyl ether	ND		9.7	32
Hexachlorobenzene	ND		9.7	32
Hexachlorobutadiene	ND		9.7	32
Hexachloroethane	ND		9.7	32
Indeno[1,2,3-cd]pyrene	ND		9.7	32
Isophorone	ND		9.7	32
Naphthalene	ND		9.7	32
Nitrobenzene	ND		9.7	32
Pentachlorophenol	ND		9.7	32
Phenanthrene	ND		9.7	32
Benzophenone	ND		9.7	32
Phenol	ND		9.7	32
Pyrene	ND		9.7	32
N-Nitrosodimethylamine	ND		9.7	32
Carbazole	ND		9.7	32
1-Methylnaphthalene	ND		9.7	32
4-Methylphenol	ND		9.7	32

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol	73	30 - 130
2-Fluorophenol	84	30 - 130
Nitrobenzene-d5	68	30 - 130
Phenol-d5	93	30 - 130
2-Fluorobiphenyl	76	30 - 130
p-Terphenyl-d14	105	30 - 130

Client: Olin Corporation

Job Number: 480-29598-1

Method Blank TICs- Batch: 480-95170

Cas Number	Analyte	RT	Est. Result	Qual
141-79-7	3-Penten-2-one, 4-methyl-	3.55	62.0	T J N
4161-60-8	2-Pentanone, 4-hydroxy-	3.85	286	T J N
123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	4.24	11000	T J N
108-38-3	Benzene, 1,3-dimethyl-	4.65	601	T J N
53951-43-2	1,3-Dioxolane-2-methanol, 2,4-dimethyl-	5.25	49.9	T J N
124-18-5	Decane	6.34	25.3	T J N
55429-13-5	Benzeneethanamine, N-[(pentafluorophenyl	7.78	22.7	T J N
31158-91-5	Hexadecanoic acid, 1,1-dimethylethyl est	14.63	198	T J N
123-95-5	Octadecanoic acid, butyl ester	15.27	276	T J N

Client: Olin Corporation

Job Number: 480-29598-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 480-95170

Method: 8270D
Preparation: 3546

LCS Lab Sample ID:	LCS 480-95170/2-A	Analysis Batch:	480-96347	Instrument ID:	HP5973X
Client Matrix:	Solid	Prep Batch:	480-95170	Lab File ID:	X3144.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	000030.4 g
Analysis Date:	12/18/2012 1744	Units:	ug/Kg	Final Weight/Volume:	1 mL
Prep Date:	12/11/2012 0850			Injection Volume:	1 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 480-95170/3-A	Analysis Batch:	480-96347	Instrument ID:	HP5973X
Client Matrix:	Solid	Prep Batch:	480-95170	Lab File ID:	X3145.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	000030.4 g
Analysis Date:	12/18/2012 1810	Units:	ug/Kg	Final Weight/Volume:	1 mL
Prep Date:	12/11/2012 0850			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,2,4-Trichlorobenzene	92	79	40 - 140	14	30		
1,2-Dichlorobenzene	84	77	40 - 140	8	30		
1,3-Dichlorobenzene	78	68	40 - 140	13	30		
Benzaldehyde	64	70		8			
1,4-Dichlorobenzene	89	81	40 - 140	10	30		
2,2'-oxybis[1-chloropropane]	80	73	40 - 140	9	30		
2,4,5-Trichlorophenol	75	83	30 - 130	9	30		
2,4,6-Trichlorophenol	66	66	30 - 130	0	30		
Benzyl alcohol	0	0		NC			
2,4-Dichlorophenol	86	86	30 - 130	0	30		
2,4-Dimethylphenol	113	97	30 - 130	15	30		
2,4-Dinitrophenol	75	41	30 - 130	59	30		*
2,4-Dinitrotoluene	80	76	40 - 140	5	30		
4-Nitroaniline	78	86		9		J	J
2,6-Dinitrotoluene	43	45	40 - 140	4	30	J	J
2-Chloronaphthalene	172	151	40 - 140	13	30	*	*
2-Chlorophenol	81	76	30 - 130	6	30		
N-Nitrosodiphenylamine	150	135		11			
2-Methylnaphthalene	84	85	40 - 140	2	30		
2-Methylphenol	60	62	30 - 130	4	30		
2-Nitrophenol	71	69	30 - 130	3	30		
3,3'-Dichlorobenzidine	76	65	40 - 140	17	30	J	J
2-Nitroaniline	72	71		2		J	J
4-Bromophenyl phenyl ether	88	82	40 - 140	7	30		
Hexachlorocyclopentadiene	70	57		21		J	J
4-Chloroaniline	55	57	40 - 140	4	30	J	J
4-Nitrophenol	0	0	30 - 130	NC	30	*	*
Acenaphthene	82	76	40 - 140	7	30		
4,6-Dinitro-2-methylphenol	113	95		17		J	J
1,2,4,5-Tetrachlorobenzene	85	86		1			
Acenaphthylene	91	82	40 - 140	11	30		
Acetophenone	83	78	40 - 140	6	30		
Aniline	50	56	40 - 140	12	30		
Anthracene	93	85	40 - 140	9	30		
Atrazine	70	76	40 - 140	8	30		
Azobenzene	96	90	40 - 140	6	30		

Client: Olin Corporation

Job Number: 480-29598-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 480-95170

Method: 8270D
Preparation: 3546

LCS Lab Sample ID:	LCS 480-95170/2-A	Analysis Batch:	480-96347	Instrument ID:	HP5973X
Client Matrix:	Solid	Prep Batch:	480-95170	Lab File ID:	X3144.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	000030.4 g
Analysis Date:	12/18/2012 1744	Units:	ug/Kg	Final Weight/Volume:	1 mL
Prep Date:	12/11/2012 0850			Injection Volume:	1 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 480-95170/3-A	Analysis Batch:	480-96347	Instrument ID:	HP5973X
Client Matrix:	Solid	Prep Batch:	480-95170	Lab File ID:	X3145.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	000030.4 g
Analysis Date:	12/18/2012 1810	Units:	ug/Kg	Final Weight/Volume:	1 mL
Prep Date:	12/11/2012 0850			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzo[a]anthracene	97	81	40 - 140	17	30		
Benzo[a]pyrene	79	76	40 - 140	4	30		
Benzo[b]fluoranthene	79	79	40 - 140	0	30		
Benzo[g,h,i]perylene	96	93	40 - 140	3	30		
Caprolactam	88	94		6			
3-Nitroaniline	74	65		12		J	J
Benzo[k]fluoranthene	113	99	40 - 140	13	30		
Bis(2-chloroethoxy)methane	86	82	40 - 140	4	30		
1,1'-Biphenyl	85	83		2			
Bis(2-chloroethyl)ether	91	75	40 - 140	19	30		
Bis(2-ethylhexyl) phthalate	88	80	40 - 140	9	30		
Butyl benzyl phthalate	89	77	40 - 140	15	30		
Chrysene	93	91	40 - 140	2	30		
N-Nitrosodi-n-propylamine	94	77		20			
Benzoic acid	1	3		103			
Dibenz(a,h)anthracene	103	92	40 - 140	11	30		
Dibenzofuran	94	89	40 - 140	5	30		
Diethyl phthalate	85	80	40 - 140	7	30		
Dimethyl phthalate	88	80	40 - 140	9	30		
Di-n-butyl phthalate	96	85	40 - 140	12	30	J	J
Di-n-octyl phthalate	87	82	40 - 140	6	30		
Phenyl ether	80	76		5			
2,3,4,6-Tetrachlorophenol	49	56		13			
Fluoranthene	89	82	40 - 140	8	30		
4-Chloro-3-methylphenol	93	69		29		J	J
Fluorene	82	76	40 - 140	7	30		
4-Chlorophenyl phenyl ether	91	79		14			
Hexachlorobenzene	87	90	40 - 140	3	30		
Hexachlorobutadiene	85	79	40 - 140	6	30		
Hexachloroethane	71	72	40 - 140	2	30		
Indeno[1,2,3-cd]pyrene	103	74	40 - 140	33	30		*
Isophorone	87	85	40 - 140	2	30		
Naphthalene	87	77	40 - 140	11	30		
Nitrobenzene	93	96	40 - 140	3	30		
Pentachlorophenol	91	83	30 - 130	9	30		
Phenanthrene	92	82	40 - 140	11	30		

Client: Olin Corporation

Job Number: 480-29598-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 480-95170

Method: 8270D
Preparation: 3546

LCS Lab Sample ID:	LCS 480-95170/2-A	Analysis Batch:	480-96347	Instrument ID:	HP5973X
Client Matrix:	Solid	Prep Batch:	480-95170	Lab File ID:	X3144.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	000030.4 g
Analysis Date:	12/18/2012 1744	Units:	ug/Kg	Final Weight/Volume:	1 mL
Prep Date:	12/11/2012 0850			Injection Volume:	1 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 480-95170/3-A	Analysis Batch:	480-96347	Instrument ID:	HP5973X
Client Matrix:	Solid	Prep Batch:	480-95170	Lab File ID:	X3145.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	000030.4 g
Analysis Date:	12/18/2012 1810	Units:	ug/Kg	Final Weight/Volume:	1 mL
Prep Date:	12/11/2012 0850			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzophenone	82	71		15			
Phenol	91	98	30 - 130	7	30		
Pyrene	98	87	40 - 140	11	30		
N-Nitrosodimethylamine	78	83		6			
1-Methylnaphthalene	81	77		6			
4-Methylphenol	187	171		9			

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
2,4,6-Tribromophenol	76	53	30 - 130
2-Fluorophenol	77	71	30 - 130
Nitrobenzene-d5	83	86	30 - 130
Phenol-d5	80	71	30 - 130
2-Fluorobiphenyl	89	85	30 - 130
p-Terphenyl-d14	100	88	30 - 130

Client: Olin Corporation

Job Number: 480-29598-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 480-95170

Method: 8270D
Preparation: 3546

LCS Lab Sample ID:	LCS 480-95170/2-A	Units:	ug/Kg	LCSD Lab Sample ID:	LCSD 480-95170/3-A
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/18/2012 1744			Analysis Date:	12/18/2012 1810
Prep Date:	12/11/2012 0850			Prep Date:	12/11/2012 0850
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	65.8	65.8	60.2		52.2	
1,2-Dichlorobenzene	65.8	65.8	55.0		50.5	
1,3-Dichlorobenzene	65.8	65.8	51.1		44.9	
Benzaldehyde	329	329	212		230	
1,4-Dichlorobenzene	65.8	65.8	58.8		53.1	
2,2'-oxybis[1-chloropropane]	65.8	65.8	52.7		48.1	
2,4,5-Trichlorophenol	65.8	65.8	49.6		54.4	
2,4,6-Trichlorophenol	65.8	65.8	43.2		43.4	
Benzyl alcohol	65.8	65.8	ND		ND	
2,4-Dichlorophenol	65.8	65.8	56.8		56.7	
2,4-Dimethylphenol	65.8	65.8	74.3		64.0	
2,4-Dinitrophenol	65.8	65.8	49.6		ND	*
2,4-Dinitrotoluene	65.8	65.8	52.9		50.2	
4-Nitroaniline	65.8	65.8	51.6	J	56.5	J
2,6-Dinitrotoluene	65.8	65.8	28.4	J	29.7	J
2-Chloronaphthalene	65.8	65.8	113	*	99.3	*
2-Chlorophenol	65.8	65.8	53.2		50.1	
N-Nitrosodiphenylamine	65.8	65.8	98.8		88.9	
2-Methylnaphthalene	65.8	65.8	55.1		56.2	
2-Methylphenol	65.8	65.8	39.2		40.9	
2-Nitrophenol	65.8	65.8	46.9		45.6	
3,3'-Dichlorobenzidine	65.8	65.8	50.2	J	42.5	J
2-Nitroaniline	65.8	65.8	47.3	J	46.6	J
4-Bromophenyl phenyl ether	65.8	65.8	58.2		54.3	
Hexachlorocyclopentadiene	65.8	65.8	45.8	J	37.2	J
4-Chloroaniline	65.8	65.8	36.3	J	37.7	J
4-Nitrophenol	65.8	65.8	ND	*	ND	*
Acenaphthene	65.8	65.8	53.7		49.9	
4,6-Dinitro-2-methylphenol	65.8	65.8	74.2	J	62.3	J
1,2,4,5-Tetrachlorobenzene	132	132	112		113	
Acenaphthylene	65.8	65.8	60.1		53.6	
Acetophenone	461	461	380		360	
Aniline	197	197	98.6		111	
Anthracene	65.8	65.8	61.4		55.9	
Atrazine	329	329	231		249	
Azobenzene	197	197	189		178	
Benzo[a]anthracene	65.8	65.8	63.7		53.5	
Benzo[a]pyrene	65.8	65.8	52.1		50.0	
Benzo[b]fluoranthene	65.8	65.8	52.1		52.0	

Client: Olin Corporation

Job Number: 480-29598-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 480-95170

Method: 8270D
Preparation: 3546

LCS Lab Sample ID:	LCS 480-95170/2-A	Units:	ug/Kg	LCSD Lab Sample ID:	LCSD 480-95170/3-A
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/18/2012 1744			Analysis Date:	12/18/2012 1810
Prep Date:	12/11/2012 0850			Prep Date:	12/11/2012 0850
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	65.8	65.8	63.3		61.3	
Caprolactam	329	329	290		308	
3-Nitroaniline	65.8	65.8	48.7	J	43.1	J
Benzo[k]fluoranthene	65.8	65.8	74.1		65.0	
Bis(2-chloroethoxy)methane	65.8	65.8	56.6		54.2	
1,1'-Biphenyl	329	329	278		273	
Bis(2-chloroethyl)ether	65.8	65.8	59.8		49.6	
Bis(2-ethylhexyl) phthalate	65.8	65.8	ND		ND	
Butyl benzyl phthalate	65.8	65.8	58.6		50.5	
Chrysene	65.8	65.8	61.3		59.9	
N-Nitrosodi-n-propylamine	65.8	65.8	61.6		50.4	
Benzoic acid	65.8	65.8	ND		ND	
Dibenz(a,h)anthracene	65.8	65.8	67.6		60.3	
Dibenzofuran	65.8	65.8	61.8		58.8	
Diethyl phthalate	65.8	65.8	56.0		52.5	
Dimethyl phthalate	65.8	65.8	57.9		52.8	
Di-n-butyl phthalate	65.8	65.8	63.4	J	55.9	J
Di-n-octyl phthalate	65.8	65.8	57.1		54.0	
Phenyl ether	263	263	212		201	
2,3,4,6-Tetrachlorophenol	132	132	65.0		73.9	
Fluoranthene	65.8	65.8	58.3		54.0	
4-Chloro-3-methylphenol	65.8	65.8	61.2	J	45.6	J
Fluorene	65.8	65.8	53.7		49.9	
4-Chlorophenyl phenyl ether	65.8	65.8	59.6		51.7	
Hexachlorobenzene	65.8	65.8	57.0		59.0	
Hexachlorobutadiene	65.8	65.8	55.6		52.2	
Hexachloroethane	65.8	65.8	46.6		47.6	
Indeno[1,2,3-cd]pyrene	65.8	65.8	67.5		48.6	*
Isophorone	65.8	65.8	57.0		55.7	
Naphthalene	65.8	65.8	56.9		50.8	
Nitrobenzene	65.8	65.8	61.4		63.0	
Pentachlorophenol	65.8	65.8	59.8		54.6	
Phenanthrene	65.8	65.8	60.8		54.2	
Benzophenone	263	263	216		186	
Phenol	65.8	65.8	59.9		64.4	
Pyrene	65.8	65.8	64.4		57.4	
N-Nitrosodimethylamine	197	197	155		165	
1-Methylnaphthalene	263	263	214		202	
4-Methylphenol	65.8	65.8	123		113	

Client: Olin Corporation

Job Number: 480-29598-1

Method Blank - Batch: 200-49268

Method: Organotins/GC
Preparation: 3550C

Lab Sample ID:	MB 200-49268/1-A	Analysis Batch:	200-49448	Instrument ID:	2860.i
Client Matrix:	Solid	Prep Batch:	200-49268	Lab File ID:	11dec121807-r091.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/11/2012 2231	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	12/10/2012 1810			Injection Volume:	1.5 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Tributyltin	ND		0.67	1.5

Surrogate	% Rec	Acceptance Limits
Tripentyltin	76	30 - 120

Surrogate	% Rec	Acceptance Limits
Tripentyltin	76	30 - 120

Lab Control Sample - Batch: 200-49268

Method: Organotins/GC
Preparation: 3550C

Lab Sample ID:	LCS 200-49268/2-A	Analysis Batch:	200-49448	Instrument ID:	2860.i
Client Matrix:	Solid	Prep Batch:	200-49268	Lab File ID:	11dec121807-r101.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	12/11/2012 2248	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	12/10/2012 1810			Injection Volume:	1.5 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Tributyltin	14.8	12.5	84	30 - 160	

Surrogate	% Rec	Acceptance Limits
Tripentyltin	77	30 - 120

Surrogate	% Rec	Acceptance Limits
Tripentyltin	84	30 - 120

Client: Olin Corporation

Job Number: 480-29598-1

Method Blank - Batch: 200-49894

Method: Organotins/GC
Preparation: 3550C

Lab Sample ID:	MB 200-49894/1-A	Analysis Batch:	200-50011	Instrument ID:	2860.i
Client Matrix:	Solid	Prep Batch:	200-49894	Lab File ID:	26dec121110-r031.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.10 g
Analysis Date:	12/26/2012 1146	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	12/22/2012 0812			Injection Volume:	1.5 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Tributyltin	ND		0.67	1.5

Surrogate	% Rec	Acceptance Limits
Tripentyltin	69	30 - 120

Surrogate	% Rec	Acceptance Limits
Tripentyltin	76	30 - 120

Lab Control Sample - Batch: 200-49894

Method: Organotins/GC
Preparation: 3550C

Lab Sample ID:	LCS 200-49894/2-A	Analysis Batch:	200-50011	Instrument ID:	2860.i
Client Matrix:	Solid	Prep Batch:	200-49894	Lab File ID:	26dec121110-r041.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	29.96 g
Analysis Date:	12/26/2012 1203	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	12/22/2012 0812			Injection Volume:	1.5 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Tributyltin	14.9	11.7	78	30 - 160	

Surrogate	% Rec	Acceptance Limits
Tripentyltin	76	30 - 120

Surrogate	% Rec	Acceptance Limits
Tripentyltin	82	30 - 120

Client: Olin Corporation

Job Number: 480-29598-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 200-49894

Method: Organotins/GC
Preparation: 3550C

MS Lab Sample ID:	480-29598-8	Analysis Batch:	200-50011	Instrument ID:	2860.i
Client Matrix:	Solid	Prep Batch:	200-49894	Lab File ID:	26dec121110-r071.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	29.67 g
Analysis Date:	12/26/2012 1254			Final Weight/Volume:	1000 uL
Prep Date:	12/22/2012 0812			Injection Volume:	1.5 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	480-29598-8	Analysis Batch:	200-50011	Instrument ID:	2860.i
Client Matrix:	Solid	Prep Batch:	200-49894	Lab File ID:	26dec121110-r061.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	29.85 g
Analysis Date:	12/26/2012 1237			Final Weight/Volume:	1000 uL
Prep Date:	12/22/2012 0812			Injection Volume:	1.5 uL
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Tributyltin	70	71	30 - 160	2	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Tripentyltin	68	65	30 - 120

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Tripentyltin	88	83	30 - 120

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 200-49894

Method: Organotins/GC
Preparation: 3550C

MS Lab Sample ID:	480-29598-8	Units:	ug/Kg	MSD Lab Sample ID:	480-29598-8
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/26/2012 1254			Analysis Date:	12/26/2012 1237
Prep Date:	12/22/2012 0812			Prep Date:	12/22/2012 0812
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Tributyltin	ND	41.8	41.6	29.2	29.7

Client: Olin Corporation

Job Number: 480-29598-1

Method Blank - Batch: 480-97077

Method: 6010
Preparation: 3050B

Lab Sample ID:	MB 480-97077/1-A	Analysis Batch:	480-97273	Instrument ID:	ICAP1
Client Matrix:	Solid	Prep Batch:	480-97077	Lab File ID:	I1122112A-7.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.4794 g
Analysis Date:	12/21/2012 1934	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	12/21/2012 1230				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Tin	ND	^	0.45	2.1

LCS-Certified Reference Material/
LCSD - Certified Reference Material Recovery Report - Batch: 480-97077

Method: 6010
Preparation: 3050B

LCS Lab Sample ID:	LCSSRM 480-97077/2-A	Analysis Batch:	480-97273	Instrument ID:	ICAP1
Client Matrix:	Solid	Prep Batch:	480-97077	Lab File ID:	I1122112A-7.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.4994 g
Analysis Date:	12/21/2012 1936	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	12/21/2012 1230				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCDSRM 480-97077/3-A	Analysis Batch:	480-97273	Instrument ID:	ICAP1
Client Matrix:	Solid	Prep Batch:	480-97077	Lab File ID:	I1122112A-7.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.5007 g
Analysis Date:	12/21/2012 1939	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	12/21/2012 1230				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Tin	96.9	90.2	79.2 - 121.4	7	20	^	^

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 480-97077

Method: 6010
Preparation: 3050B

LCS Lab Sample ID:	LCSSRM 480-97077/2-A	Units:	mg/Kg
Client Matrix:	Solid		
Dilution:	1.0		
Analysis Date:	12/21/2012 1936		
Prep Date:	12/21/2012 1230		
Leach Date:	N/A		

LCSD Lab Sample ID:	LCDSRM 480-97077/3-A
Client Matrix:	Solid
Dilution:	1.0
Analysis Date:	12/21/2012 1939
Prep Date:	12/21/2012 1230
Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
Tin	103	103	100	^	92.8	^

Client: Olin Corporation

Job Number: 480-29598-1

Post Digestion Spike - Batch: 480-97077

Method: 6010
Preparation: 3050B

Lab Sample ID:	480-29598-8	Analysis Batch:	480-97273	Instrument ID:	ICAP1
Client Matrix:	Solid	Prep Batch:	480-97077	Lab File ID:	I1122112A-7.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.4662 g
Analysis Date:	12/21/2012 1948	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	12/21/2012 1230				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Tin	2.4	J	105	107	100	75 - 125	^

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-97077

Method: 6010
Preparation: 3050B

MS Lab Sample ID:	480-29598-8	Analysis Batch:	480-97273	Instrument ID:	ICAP1
Client Matrix:	Solid	Prep Batch:	480-97077	Lab File ID:	I1122112A-7.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.4741 g
Analysis Date:	12/21/2012 1955			Final Weight/Volume:	50 mL
Prep Date:	12/21/2012 1230				
Leach Date:	N/A				

MSD Lab Sample ID:	480-29598-8	Analysis Batch:	480-97273	Instrument ID:	ICAP1
Client Matrix:	Solid	Prep Batch:	480-97077	Lab File ID:	I1122112A-7.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.5284 g
Analysis Date:	12/21/2012 1957			Final Weight/Volume:	50 mL
Prep Date:	12/21/2012 1230				
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Tin	88	95	75 - 125	3	35	^	^

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-97077

Method: 6010
Preparation: 3050B

MS Lab Sample ID:	480-29598-8	Units:	mg/Kg	MSD Lab Sample ID:	480-29598-8
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/21/2012 1955			Analysis Date:	12/21/2012 1957
Prep Date:	12/21/2012 1230			Prep Date:	12/21/2012 1230
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Tin	2.4	J	118	106	106	^	103	^

Client: Olin Corporation

Job Number: 480-29598-1

Serial Dilution - Batch: 480-97077

Method: 6010
Preparation: 3050B

Lab Sample ID:	480-29598-8	Analysis Batch:	480-97273	Instrument ID:	ICAP1
Client Matrix:	Solid	Prep Batch:	480-97077	Lab File ID:	I1122112A-7.asc
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.4662 g
Analysis Date:	12/21/2012 1946	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	12/21/2012 1230				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Tin	2.4	J	ND	NC	10	^

Client: Olin Corporation

Job Number: 480-29598-1

Method Blank - Batch: 460-139400

Method: 7199
Preparation: 3060A

Lab Sample ID:	MB 460-139400/1-A ^10	Analysis Batch:	460-139572	Instrument ID:	IC
Client Matrix:	Solid	Prep Batch:	460-139400	Lab File ID:	c122156.CHW
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	2.50 g
Analysis Date:	12/12/2012 2156	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/12/2012 1154				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Chromium (hexavalent)	ND		1.5	2.0

Lab Control Sample Soluble - Batch: 460-139400

Method: 7199
Preparation: 3060A

Lab Sample ID:	LCSS 460-139400/2-A	Analysis Batch:	460-139572	Instrument ID:	IC
Client Matrix:	Solid	Prep Batch:	460-139400	Lab File ID:	c122221.CHW
Dilution:	25	Leach Batch:	N/A	Initial Weight/Volume:	2.50 g
Analysis Date:	12/12/2012 2221	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/12/2012 1154				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chromium (hexavalent)	11.4	11.9	104	85 - 115	

Lab Control Sample Insoluble - Batch: 460-139400

Method: 7199
Preparation: 3060A

Lab Sample ID:	LCSI 460-139400/3-A	Analysis Batch:	460-139572	Instrument ID:	IC
Client Matrix:	Solid	Prep Batch:	460-139400	Lab File ID:	c122230.CHW
Dilution:	500	Leach Batch:	N/A	Initial Weight/Volume:	2.50 g
Analysis Date:	12/12/2012 2230	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/12/2012 1154				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chromium (hexavalent)	708	707	100	80 - 120	

Client: Olin Corporation

Job Number: 480-29598-1

Matrix Spike Soluble - Batch: 460-139400

Method: 7199
Preparation: 3060A

Lab Sample ID:	480-29598-4	Analysis Batch:	460-139572	Instrument ID:	IC
Client Matrix:	Solid	Prep Batch:	460-139400	Lab File ID:	c122344.CHW
Dilution:	40	Leach Batch:	N/A	Initial Weight/Volume:	2.50 g
Analysis Date:	12/12/2012 2344	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/12/2012 1154				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Chromium (hexavalent)	ND	53.4	47.1	88	75 - 125	

Matrix Spike Insoluble - Batch: 460-139400

Method: 7199
Preparation: 3060A

Lab Sample ID:	480-29598-4	Analysis Batch:	460-139572	Instrument ID:	IC
Client Matrix:	Solid	Prep Batch:	460-139400	Lab File ID:	c130000.CHW
Dilution:	500	Leach Batch:	N/A	Initial Weight/Volume:	2.50 g
Analysis Date:	12/13/2012 0000	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/12/2012 1154				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Chromium (hexavalent)	ND	946	930	98	75 - 125	

Post Digestion Spike - Batch: 460-139400

Method: 7199
Preparation: 3060A

Lab Sample ID:	480-29598-4	Analysis Batch:	460-139572	Instrument ID:	IC
Client Matrix:	Solid	Prep Batch:	460-139400	Lab File ID:	c130017.CHW
Dilution:	40	Leach Batch:	N/A	Initial Weight/Volume:	2.50 g
Analysis Date:	12/13/2012 0017	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/12/2012 1154				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Chromium (hexavalent)	ND	53.4	55.0	103	85 - 115	

Client: Olin Corporation

Job Number: 480-29598-1

Duplicate - Batch: 460-139400

Method: 7199
Preparation: 3060A

Lab Sample ID:	480-29598-4	Analysis Batch:	460-139572	Instrument ID:	IC
Client Matrix:	Solid	Prep Batch:	460-139400	Lab File ID:	c122303.CHW
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	2.50 g
Analysis Date:	12/12/2012 2303	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	12/12/2012 1154				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Chromium (hexavalent)	ND	ND	NC	20	

Client: Olin Corporation

Job Number: 480-29598-1

Lab Control Sample - Batch: 360-97368

Method: 9045C
Preparation: N/A

Lab Sample ID:	LCS 360-97366/1-A	Analysis Batch:	360-97368	Instrument ID:	pH meter
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	360-97366	Initial Weight/Volume:	
Analysis Date:	12/06/2012 0838	Units:	SU	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	12/06/2012 0800				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
pH-Soluble	6.00	5.970	100	90 - 110	

Duplicate - Batch: 360-97368

Method: 9045C
Preparation: N/A

Lab Sample ID:	480-29598-2	Analysis Batch:	360-97368	Instrument ID:	pH meter
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	360-97366	Initial Weight/Volume:	
Analysis Date:	12/06/2012 0919	Units:	SU	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	12/06/2012 0800				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH-Soluble	4.07	4.010	1	10.0	

Client: Olin Corporation

Job Number: 480-29598-1

Duplicate - Batch: 460-138869

Method: Moisture
Preparation: N/A

Lab Sample ID:	480-29598-2	Analysis Batch:	460-138869	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/09/2012 1155	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	34	31	11	20	
Percent Solids	66	69	5	20	

Client: Olin Corporation

Job Number: 480-29598-1

Lab Control Sample - Batch: 360-97369

Method: SM 2580B
Preparation: N/A

Lab Sample ID:	LCS 360-97367/1-A	Analysis Batch:	360-97369	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	360-97367	Initial Weight/Volume:	
Analysis Date:	12/06/2012 0901	Units:	millivolts	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	12/06/2012 0800				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Oxidation Reduction Potential-Soluble	475	421	89	85 - 115	

Duplicate - Batch: 360-97369

Method: SM 2580B
Preparation: N/A

Lab Sample ID:	480-29598-2	Analysis Batch:	360-97369	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	360-97367	Initial Weight/Volume:	
Analysis Date:	12/06/2012 0919	Units:	millivolts	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	12/06/2012 0800				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Oxidation Reduction Potential-Soluble	99	96.0	3	20	

DATA REPORTING QUALIFIERS

Client: Olin Corporation

Job Number: 480-29598-1

Lab Section	Qualifier	Description
GC/MS Semi 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.
	*	RPD of the LCS and LCSD exceeds the control limits
	X	Surrogate is outside control limits
Metals		
	^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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: 480-29598-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 480-95170					
LCS 480-95170/2-A	Lab Control Sample	T	Solid	3546	
LCSD 480-95170/3-A	Lab Control Sample Duplicate	T	Solid	3546	
MB 480-95170/1-A	Method Blank	T	Solid	3546	
480-29598-3	OC-SB-526-0.0/1.0-XXX	T	Solid	3546	
480-29598-4	OC-SB-526-1.0/3.0-XXX	T	Solid	3546	
480-29598-7	OC-SB-528-0.0/1.0-XXX	T	Solid	3546	
480-29598-8	OC-SB-528-1.0/3.0-XXX	T	Solid	3546	
480-29598-9	OC-SB-529-0.0/1.0-XXX	T	Solid	3546	
480-29598-10	OC-SB-529-1.0/3.0-XXX	T	Solid	3546	
Analysis Batch:480-96347					
LCS 480-95170/2-A	Lab Control Sample	T	Solid	8270D	480-95170
LCSD 480-95170/3-A	Lab Control Sample Duplicate	T	Solid	8270D	480-95170
MB 480-95170/1-A	Method Blank	T	Solid	8270D	480-95170
480-29598-3	OC-SB-526-0.0/1.0-XXX	T	Solid	8270D	480-95170
480-29598-4	OC-SB-526-1.0/3.0-XXX	T	Solid	8270D	480-95170
480-29598-7	OC-SB-528-0.0/1.0-XXX	T	Solid	8270D	480-95170
480-29598-8	OC-SB-528-1.0/3.0-XXX	T	Solid	8270D	480-95170
480-29598-9	OC-SB-529-0.0/1.0-XXX	T	Solid	8270D	480-95170
480-29598-10	OC-SB-529-1.0/3.0-XXX	T	Solid	8270D	480-95170

Report Basis

T = Total

Client: Olin Corporation

Job Number: 480-29598-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 200-49268					
LCS 200-49268/2-A	Lab Control Sample	T	Solid	3550C	
MB 200-49268/1-A	Method Blank	T	Solid	3550C	
480-29598-7	OC-SB-528-0.0/1.0-XXX	T	Solid	3550C	
480-29598-11	OC-DUP-2	T	Solid	3550C	
Analysis Batch:200-49448					
LCS 200-49268/2-A	Lab Control Sample	T	Solid	Organotins/GC	200-49268
MB 200-49268/1-A	Method Blank	T	Solid	Organotins/GC	200-49268
480-29598-7	OC-SB-528-0.0/1.0-XXX	T	Solid	Organotins/GC	200-49268
480-29598-11	OC-DUP-2	T	Solid	Organotins/GC	200-49268
Prep Batch: 200-49894					
LCS 200-49894/2-A	Lab Control Sample	T	Solid	3550C	
MB 200-49894/1-A	Method Blank	T	Solid	3550C	
480-29598-8	OC-SB-528-1.0/3.0-XXX	T	Solid	3550C	
480-29598-8MS	Matrix Spike	T	Solid	3550C	
480-29598-8MSD	Matrix Spike Duplicate	T	Solid	3550C	
Analysis Batch:200-50011					
LCS 200-49894/2-A	Lab Control Sample	T	Solid	Organotins/GC	200-49894
MB 200-49894/1-A	Method Blank	T	Solid	Organotins/GC	200-49894
480-29598-8	OC-SB-528-1.0/3.0-XXX	T	Solid	Organotins/GC	200-49894
480-29598-8MS	Matrix Spike	T	Solid	Organotins/GC	200-49894
480-29598-8MSD	Matrix Spike Duplicate	T	Solid	Organotins/GC	200-49894

Report Basis

T = Total

Client: Olin Corporation

Job Number: 480-29598-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 480-97077					
LCSSRM 480-97077/2-A	LCS-Certified Reference Material	T	Solid	3050B	
LCDSRM 480-97077/3-A	LCSD - Certified Reference Material	T	Solid	3050B	
MB 480-97077/1-A	Method Blank	T	Solid	3050B	
480-29598-7	OC-SB-528-0.0/1.0-XXX	T	Solid	3050B	
480-29598-8	OC-SB-528-1.0/3.0-XXX	T	Solid	3050B	
480-29598-8MS	Matrix Spike	T	Solid	3050B	
480-29598-8MSD	Matrix Spike Duplicate	T	Solid	3050B	
480-29598-11	OC-DUP-2	T	Solid	3050B	
Analysis Batch:480-97273					
LCSSRM 480-97077/2-A	LCS-Certified Reference Material	T	Solid	6010	480-97077
LCDSRM 480-97077/3-A	LCSD - Certified Reference Material	T	Solid	6010	480-97077
MB 480-97077/1-A	Method Blank	T	Solid	6010	480-97077
480-29598-7	OC-SB-528-0.0/1.0-XXX	T	Solid	6010	480-97077
480-29598-8	OC-SB-528-1.0/3.0-XXX	T	Solid	6010	480-97077
480-29598-8MS	Matrix Spike	T	Solid	6010	480-97077
480-29598-8MSD	Matrix Spike Duplicate	T	Solid	6010	480-97077
480-29598-11	OC-DUP-2	T	Solid	6010	480-97077

Report Basis

T = Total

Client: Olin Corporation

Job Number: 480-29598-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:480-94744					
480-29598-8MSDMSD	Matrix Spike Duplicate	T	Solid	Moisture	
480-29598-8MSMS	Matrix Spike	T	Solid	Moisture	
480-29598-11	OC-DUP-2	T	Solid	Moisture	
Prep Batch: 360-97366					
LCS 360-97366/1-A	Lab Control Sample	S	Solid	DI Leach	
480-29598-1	OC-SS-524-0.0/1.0-XXX	S	Solid	DI Leach	
480-29598-2	OC-SS-525-0.0/1.0-XXX	S	Solid	DI Leach	
480-29598-2DU	Duplicate	S	Solid	DI Leach	
480-29598-3	OC-SB-526-0.0/1.0-XXX	S	Solid	DI Leach	
480-29598-4	OC-SB-526-1.0/3.0-XXX	S	Solid	DI Leach	
480-29598-5	OC-SB-527-0.0/1.0-XXX	S	Solid	DI Leach	
480-29598-6	OC-SB-527-1.0/3.0-XXX	S	Solid	DI Leach	
480-29598-7	OC-SB-528-0.0/1.0-XXX	S	Solid	DI Leach	
480-29598-8	OC-SB-528-1.0/3.0-XXX	S	Solid	DI Leach	
480-29598-9	OC-SB-529-0.0/1.0-XXX	S	Solid	DI Leach	
480-29598-10	OC-SB-529-1.0/3.0-XXX	S	Solid	DI Leach	
Prep Batch: 360-97367					
LCS 360-97367/1-A	Lab Control Sample	S	Solid	DI Leach	
480-29598-1	OC-SS-524-0.0/1.0-XXX	S	Solid	DI Leach	
480-29598-2	OC-SS-525-0.0/1.0-XXX	S	Solid	DI Leach	
480-29598-2DU	Duplicate	S	Solid	DI Leach	
480-29598-3	OC-SB-526-0.0/1.0-XXX	S	Solid	DI Leach	
480-29598-4	OC-SB-526-1.0/3.0-XXX	S	Solid	DI Leach	
480-29598-5	OC-SB-527-0.0/1.0-XXX	S	Solid	DI Leach	
480-29598-6	OC-SB-527-1.0/3.0-XXX	S	Solid	DI Leach	
480-29598-7	OC-SB-528-0.0/1.0-XXX	S	Solid	DI Leach	
480-29598-8	OC-SB-528-1.0/3.0-XXX	S	Solid	DI Leach	
480-29598-9	OC-SB-529-0.0/1.0-XXX	S	Solid	DI Leach	
480-29598-10	OC-SB-529-1.0/3.0-XXX	S	Solid	DI Leach	
Analysis Batch:360-97368					
LCS 360-97366/1-A	Lab Control Sample	S	Solid	9045C	
480-29598-1	OC-SS-524-0.0/1.0-XXX	S	Solid	9045C	
480-29598-2	OC-SS-525-0.0/1.0-XXX	S	Solid	9045C	
480-29598-2DU	Duplicate	S	Solid	9045C	
480-29598-3	OC-SB-526-0.0/1.0-XXX	S	Solid	9045C	
480-29598-4	OC-SB-526-1.0/3.0-XXX	S	Solid	9045C	
480-29598-5	OC-SB-527-0.0/1.0-XXX	S	Solid	9045C	
480-29598-6	OC-SB-527-1.0/3.0-XXX	S	Solid	9045C	
480-29598-7	OC-SB-528-0.0/1.0-XXX	S	Solid	9045C	
480-29598-8	OC-SB-528-1.0/3.0-XXX	S	Solid	9045C	
480-29598-9	OC-SB-529-0.0/1.0-XXX	S	Solid	9045C	
480-29598-10	OC-SB-529-1.0/3.0-XXX	S	Solid	9045C	

Client: Olin Corporation

Job Number: 480-29598-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:360-97369					
LCS 360-97367/1-A	Lab Control Sample	S	Solid	SM 2580B	
480-29598-1	OC-SS-524-0.0/1.0-XXX	S	Solid	SM 2580B	
480-29598-2	OC-SS-525-0.0/1.0-XXX	S	Solid	SM 2580B	
480-29598-2DU	Duplicate	S	Solid	SM 2580B	
480-29598-3	OC-SB-526-0.0/1.0-XXX	S	Solid	SM 2580B	
480-29598-4	OC-SB-526-1.0/3.0-XXX	S	Solid	SM 2580B	
480-29598-5	OC-SB-527-0.0/1.0-XXX	S	Solid	SM 2580B	
480-29598-6	OC-SB-527-1.0/3.0-XXX	S	Solid	SM 2580B	
480-29598-7	OC-SB-528-0.0/1.0-XXX	S	Solid	SM 2580B	
480-29598-8	OC-SB-528-1.0/3.0-XXX	S	Solid	SM 2580B	
480-29598-9	OC-SB-529-0.0/1.0-XXX	S	Solid	SM 2580B	
480-29598-10	OC-SB-529-1.0/3.0-XXX	S	Solid	SM 2580B	
Analysis Batch:460-138869					
480-29598-1	OC-SS-524-0.0/1.0-XXX	T	Solid	Moisture	
480-29598-2	OC-SS-525-0.0/1.0-XXX	T	Solid	Moisture	
480-29598-2DU	Duplicate	T	Solid	Moisture	
Analysis Batch:460-138871					
480-29598-3	OC-SB-526-0.0/1.0-XXX	T	Solid	Moisture	
480-29598-4	OC-SB-526-1.0/3.0-XXX	T	Solid	Moisture	
480-29598-5	OC-SB-527-0.0/1.0-XXX	T	Solid	Moisture	
480-29598-6	OC-SB-527-1.0/3.0-XXX	T	Solid	Moisture	
480-29598-7	OC-SB-528-0.0/1.0-XXX	T	Solid	Moisture	
480-29598-8	OC-SB-528-1.0/3.0-XXX	T	Solid	Moisture	
480-29598-9	OC-SB-529-0.0/1.0-XXX	T	Solid	Moisture	
480-29598-10	OC-SB-529-1.0/3.0-XXX	T	Solid	Moisture	
Prep Batch: 460-139400					
LCSI 460-139400/3-A ^500	Lab Control Sample Insoluble	T	Solid	3060A	
LCSS 460-139400/2-A ^25	Lab Control Sample Soluble	T	Solid	3060A	
MB 460-139400/1-A ^10	Method Blank	T	Solid	3060A	
480-29598-1	OC-SS-524-0.0/1.0-XXX	T	Solid	3060A	
480-29598-2	OC-SS-525-0.0/1.0-XXX	T	Solid	3060A	
480-29598-3	OC-SB-526-0.0/1.0-XXX	T	Solid	3060A	
480-29598-4	OC-SB-526-1.0/3.0-XXX	T	Solid	3060A	
480-29598-4DU	Duplicate	T	Solid	3060A	
480-29598-4MSI	Matrix Spike Insoluble	T	Solid	3060A	
480-29598-4MSS	Matrix Spike Soluble	T	Solid	3060A	
480-29598-5	OC-SB-527-0.0/1.0-XXX	T	Solid	3060A	
480-29598-6	OC-SB-527-1.0/3.0-XXX	T	Solid	3060A	
480-29598-7	OC-SB-528-0.0/1.0-XXX	T	Solid	3060A	
480-29598-8	OC-SB-528-1.0/3.0-XXX	T	Solid	3060A	
480-29598-9	OC-SB-529-0.0/1.0-XXX	T	Solid	3060A	
480-29598-10	OC-SB-529-1.0/3.0-XXX	T	Solid	3060A	

Client: Olin Corporation

Job Number: 480-29598-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:460-139572					
LCSI 460-139400/3-A ^500	Lab Control Sample Insoluble	T	Solid	7199	460-139400
LCSS 460-139400/2-A ^25	Lab Control Sample Soluble	T	Solid	7199	460-139400
MB 460-139400/1-A ^10	Method Blank	T	Solid	7199	460-139400
480-29598-1	OC-SS-524-0.0/1.0-XXX	T	Solid	7199	460-139400
480-29598-2	OC-SS-525-0.0/1.0-XXX	T	Solid	7199	460-139400
480-29598-3	OC-SB-526-0.0/1.0-XXX	T	Solid	7199	460-139400
480-29598-4	OC-SB-526-1.0/3.0-XXX	T	Solid	7199	460-139400
480-29598-4DU	Duplicate	T	Solid	7199	460-139400
480-29598-4MSI	Matrix Spike Insoluble	T	Solid	7199	460-139400
480-29598-4MSS	Matrix Spike Soluble	T	Solid	7199	460-139400
480-29598-5	OC-SB-527-0.0/1.0-XXX	T	Solid	7199	460-139400
480-29598-6	OC-SB-527-1.0/3.0-XXX	T	Solid	7199	460-139400
480-29598-7	OC-SB-528-0.0/1.0-XXX	T	Solid	7199	460-139400
480-29598-8	OC-SB-528-1.0/3.0-XXX	T	Solid	7199	460-139400
480-29598-9	OC-SB-529-0.0/1.0-XXX	T	Solid	7199	460-139400
480-29598-10	OC-SB-529-1.0/3.0-XXX	T	Solid	7199	460-139400

Report Basis

S = Soluble

T = Total

Client: Olin Corporation

Job Number: 480-29598-1

Laboratory Chronicle

Lab ID: 480-29598-1 **Client ID:** OC-SS-524-0.0/1.0-XXX

Sample Date/Time: 12/05/2012 09:20 Received Date/Time: 12/05/2012 18:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29598-A-1-A ^10		460-139572	460-139400	12/12/2012 11:54	10	TAL EDI	SEB
A:7199	480-29598-A-1-A ^10		460-139572	460-139400	12/13/2012 00:25	10	TAL EDI	SEB
A:9045C	480-29598-C-1-A		360-97368		12/06/2012 09:09	1	TAL WFD	GRB
A:Moisture	480-29598-A-1		460-138869		12/09/2012 11:55	1	TAL EDI	IR
A:SM 2580B	480-29598-C-1-B		360-97369		12/06/2012 09:09	1	TAL WFD	GRB

Lab ID: 480-29598-2 **Client ID:** OC-SS-525-0.0/1.0-XXX

Sample Date/Time: 12/05/2012 09:45 Received Date/Time: 12/05/2012 18:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29598-B-2-A ^10		460-139572	460-139400	12/12/2012 11:54	10	TAL EDI	SEB
A:7199	480-29598-B-2-A ^10		460-139572	460-139400	12/13/2012 00:50	10	TAL EDI	SEB
A:9045C	480-29598-C-2-A		360-97368		12/06/2012 09:15	1	TAL WFD	GRB
A:Moisture	480-29598-B-2		460-138869		12/09/2012 11:55	1	TAL EDI	IR
A:SM 2580B	480-29598-C-2-C		360-97369		12/06/2012 09:15	1	TAL WFD	GRB

Lab ID: 480-29598-2 DU **Client ID:** OC-SS-525-0.0/1.0-XXX

Sample Date/Time: 12/05/2012 09:45 Received Date/Time: 12/05/2012 18:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:9045C	480-29598-C-2-B DU		360-97368		12/06/2012 09:19	1	TAL WFD	GRB
A:Moisture	480-29598-B-2 DU		460-138869		12/09/2012 11:55	1	TAL EDI	IR
A:SM 2580B	480-29598-C-2-D DU		360-97369		12/06/2012 09:19	1	TAL WFD	GRB

Lab ID: 480-29598-3 **Client ID:** OC-SB-526-0.0/1.0-XXX

Sample Date/Time: 12/05/2012 10:40 Received Date/Time: 12/05/2012 18:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3546	480-29598-B-3-A		480-96347	480-95170	12/11/2012 08:51	1	TAL BUF	DE
A:8270D	480-29598-B-3-A		480-96347	480-95170	12/18/2012 18:35	1	TAL BUF	RMM
P:3060A	480-29598-A-3-A ^10		460-139572	460-139400	12/12/2012 11:54	10	TAL EDI	SEB
A:7199	480-29598-A-3-A ^10		460-139572	460-139400	12/13/2012 01:23	10	TAL EDI	SEB
A:9045C	480-29598-C-3-A		360-97368		12/06/2012 09:24	1	TAL WFD	GRB
A:Moisture	480-29598-A-3		460-138871		12/09/2012 12:15	1	TAL EDI	IR
A:SM 2580B	480-29598-C-3-B		360-97369		12/06/2012 09:24	1	TAL WFD	GRB

Client: Olin Corporation

Job Number: 480-29598-1

Laboratory Chronicle

Lab ID: 480-29598-4 **Client ID:** OC-SB-526-1.0/3.0-XXX

Sample Date/Time: 12/05/2012 10:45 Received Date/Time: 12/05/2012 18:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3546	480-29598-C-4-B		480-96347	480-95170	12/11/2012 08:51	1	TAL BUF	DE
A:8270D	480-29598-C-4-B		480-96347	480-95170	12/18/2012 19:00	1	TAL BUF	RMM
P:3060A	480-29598-B-4-A ^10		460-139572	460-139400	12/12/2012 11:54	10	TAL EDI	SEB
A:7199	480-29598-B-4-A ^10		460-139572	460-139400	12/12/2012 22:46	10	TAL EDI	SEB
A:9045C	480-29598-C-4-A		360-97368		12/06/2012 09:28	1	TAL WFD	GRB
A:Moisture	480-29598-B-4		460-138871		12/09/2012 12:15	1	TAL EDI	IR
A:SM 2580B	480-29598-C-4-C		360-97369		12/06/2012 09:28	1	TAL WFD	GRB

Lab ID: 480-29598-4 DU **Client ID:** OC-SB-526-1.0/3.0-XXX

Sample Date/Time: 12/05/2012 10:45 Received Date/Time: 12/05/2012 18:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29598-B-4-B DU ^10		460-139572	460-139400	12/12/2012 11:54	10	TAL EDI	SEB
A:7199	480-29598-B-4-B DU ^10		460-139572	460-139400	12/12/2012 23:03	10	TAL EDI	SEB

Lab ID: 480-29598-4 MSS **Client ID:** OC-SB-526-1.0/3.0-XXX

Sample Date/Time: 12/05/2012 10:45 Received Date/Time: 12/05/2012 18:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29598-B-4-C MSS ^40		460-139572	460-139400	12/12/2012 11:54	40	TAL EDI	SEB
A:7199	480-29598-B-4-C MSS ^40		460-139572	460-139400	12/12/2012 23:44	40	TAL EDI	SEB
P:3060A	480-29598-B-4-D MSI ^500		460-139572	460-139400	12/12/2012 11:54	500	TAL EDI	SEB
A:7199	480-29598-B-4-D MSI ^500		460-139572	460-139400	12/13/2012 00:00	500	TAL EDI	SEB
P:3060A	480-29598-B-4-A PDS ^40		460-139572	460-139400	12/12/2012 11:54	40	TAL EDI	SEB
A:7199	480-29598-B-4-A PDS ^40		460-139572	460-139400	12/13/2012 00:17	40	TAL EDI	SEB

Lab ID: 480-29598-5 **Client ID:** OC-SB-527-0.0/1.0-XXX

Sample Date/Time: 12/05/2012 13:35 Received Date/Time: 12/05/2012 18:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29598-A-5-A ^10		460-139572	460-139400	12/12/2012 11:54	10	TAL EDI	SEB
A:7199	480-29598-A-5-A ^10		460-139572	460-139400	12/13/2012 01:31	10	TAL EDI	SEB
A:9045C	480-29598-C-5-A		360-97368		12/06/2012 09:32	1	TAL WFD	GRB
A:Moisture	480-29598-A-5		460-138871		12/09/2012 12:15	1	TAL EDI	IR
A:SM 2580B	480-29598-C-5-B		360-97369		12/06/2012 09:32	1	TAL WFD	GRB

Client: Olin Corporation

Job Number: 480-29598-1

Laboratory Chronicle

Lab ID: 480-29598-6 **Client ID:** OC-SB-527-1.0/3.0-XXX

Sample Date/Time: 12/05/2012 13:40 Received Date/Time: 12/05/2012 18:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3060A	480-29598-B-6-A ^10		460-139572	460-139400	12/12/2012 11:54	10	TAL EDI	SEB
A:7199	480-29598-B-6-A ^10		460-139572	460-139400	12/13/2012 01:48	10	TAL EDI	SEB
A:9045C	480-29598-C-6-A		360-97368		12/06/2012 09:38	1	TAL WFD	GRB
A:Moisture	480-29598-B-6		460-138871		12/09/2012 12:15	1	TAL EDI	IR
A:SM 2580B	480-29598-C-6-B		360-97369		12/06/2012 09:38	1	TAL WFD	GRB

Lab ID: 480-29598-7 **Client ID:** OC-SB-528-0.0/1.0-XXX

Sample Date/Time: 12/05/2012 14:00 Received Date/Time: 12/05/2012 18:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3546	480-29598-D-7-C		480-96347	480-95170	12/11/2012 08:51	20	TAL BUF	DE
A:8270D	480-29598-D-7-C		480-96347	480-95170	12/18/2012 19:26	20	TAL BUF	RMM
P:3550C	480-29598-B-7-A		200-49448	200-49268	12/10/2012 18:10	1	TAL BUR	TPB
A:Organotins/GC	480-29598-B-7-A		200-49448	200-49268	12/11/2012 23:05	1	TAL BUR	RRM
P:3050B	480-29598-D-7-D		480-97273	480-97077	12/21/2012 12:30	1	TAL BUF	SS
A:6010	480-29598-D-7-D		480-97273	480-97077	12/21/2012 19:41	1	TAL BUF	AH
P:3060A	480-29598-A-7-A ^10		460-139572	460-139400	12/12/2012 11:54	10	TAL EDI	SEB
A:7199	480-29598-A-7-A ^10		460-139572	460-139400	12/13/2012 02:05	10	TAL EDI	SEB
A:9045C	480-29598-C-7-A		360-97368		12/06/2012 09:42	1	TAL WFD	GRB
A:Moisture	480-29598-A-7		460-138871		12/09/2012 12:15	1	TAL EDI	IR
A:SM 2580B	480-29598-C-7-B		360-97369		12/06/2012 09:42	1	TAL WFD	GRB

Lab ID: 480-29598-8 **Client ID:** OC-SB-528-1.0/3.0-XXX

Sample Date/Time: 12/05/2012 14:05 Received Date/Time: 12/05/2012 18:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3546	480-29598-E-8-B		480-96347	480-95170	12/11/2012 08:51	20	TAL BUF	DE
A:8270D	480-29598-E-8-B		480-96347	480-95170	12/18/2012 19:51	20	TAL BUF	RMM
P:3550C	480-29598-E-8-C		200-50011	200-49894	12/22/2012 08:12	1	TAL BUR	JAB
A:Organotins/GC	480-29598-E-8-C		200-50011	200-49894	12/26/2012 12:20	1	TAL BUR	SLD
P:3050B	480-29598-B-8-E		480-97273	480-97077	12/21/2012 12:30	1	TAL BUF	SS
A:6010	480-29598-B-8-E		480-97273	480-97077	12/21/2012 19:43	1	TAL BUF	AH
P:3060A	480-29598-A-8-C ^10		460-139572	460-139400	12/12/2012 11:54	10	TAL EDI	SEB
A:7199	480-29598-A-8-C ^10		460-139572	460-139400	12/13/2012 02:21	10	TAL EDI	SEB
A:9045C	480-29598-C-8-A		360-97368		12/06/2012 09:46	1	TAL WFD	GRB
A:Moisture	480-29598-A-8		460-138871		12/09/2012 12:15	1	TAL EDI	IR
A:SM 2580B	480-29598-C-8-B		360-97369		12/06/2012 09:46	1	TAL WFD	GRB

Client: Olin Corporation

Job Number: 480-29598-1

Laboratory Chronicle

Lab ID: **480-29598-8** **Client ID:** **OC-SB-528-1.0/3.0-XXX**

Sample Date/Time: 12/05/2012 14:05 Received Date/Time: 12/05/2012 18:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3550C	480-29598-E-8-E MS		200-50011	200-49894	12/22/2012 08:12	1	TAL BUR	JAB
A:Organotins/GC	480-29598-E-8-E MS		200-50011	200-49894	12/26/2012 12:54	1	TAL BUR	SLD
P:3050B	480-29598-B-8-F MS		480-97273	480-97077	12/21/2012 12:30	1	TAL BUF	SS
A:6010	480-29598-B-8-F MS		480-97273	480-97077	12/21/2012 19:55	1	TAL BUF	AH
A:Moisture	480-29598-A-8 MS		480-94744		12/07/2012 15:01	1	TAL BUF	MD

Lab ID: **480-29598-8** **Client ID:** **OC-SB-528-1.0/3.0-XXX**

Sample Date/Time: 12/05/2012 14:05 Received Date/Time: 12/05/2012 18:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3550C	480-29598-E-8-D MSD		200-50011	200-49894	12/22/2012 08:12	1	TAL BUR	JAB
A:Organotins/GC	480-29598-E-8-D MSD		200-50011	200-49894	12/26/2012 12:37	1	TAL BUR	SLD
P:3050B	480-29598-B-8-G MSD		480-97273	480-97077	12/21/2012 12:30	1	TAL BUF	SS
A:6010	480-29598-B-8-G MSD		480-97273	480-97077	12/21/2012 19:57	1	TAL BUF	AH
A:Moisture	480-29598-A-8 MSD		480-94744		12/07/2012 15:01	1	TAL BUF	MD

Lab ID: **480-29598-8 SD** **Client ID:** **OC-SB-528-1.0/3.0-XXX**

Sample Date/Time: 12/05/2012 14:05 Received Date/Time: 12/05/2012 18:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	480-29598-B-8-E SD ^5		480-97273	480-97077	12/21/2012 12:30	5	TAL BUF	SS
A:6010	480-29598-B-8-E SD ^5		480-97273	480-97077	12/21/2012 19:46	5	TAL BUF	AH
P:3050B	480-29598-B-8-E PDS		480-97273	480-97077	12/21/2012 12:30	1	TAL BUF	SS
A:6010	480-29598-B-8-E PDS		480-97273	480-97077	12/21/2012 19:48	1	TAL BUF	AH

Client: Olin Corporation

Job Number: 480-29598-1

Laboratory Chronicle

Lab ID: **480-29598-9** **Client ID:** **OC-SB-529-0.0/1.0-XXX**

Sample Date/Time: 12/05/2012 12:30 Received Date/Time: 12/05/2012 18:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3546	480-29598-B-9-A		480-96347	480-95170	12/11/2012 08:51	1	TAL BUF	DE
A:8270D	480-29598-B-9-A		480-96347	480-95170	12/18/2012 20:16	1	TAL BUF	RMM
P:3060A	480-29598-A-9-A ^10		460-139572	460-139400	12/12/2012 11:54	10	TAL EDI	SEB
A:7199	480-29598-A-9-A ^10		460-139572	460-139400	12/13/2012 08:43	10	TAL EDI	SEB
A:9045C	480-29598-C-9-A		360-97368		12/06/2012 09:51	1	TAL WFD	GRB
A:Moisture	480-29598-A-9		460-138871		12/09/2012 12:15	1	TAL EDI	IR
A:SM 2580B	480-29598-C-9-B		360-97369		12/06/2012 09:51	1	TAL WFD	GRB

Lab ID: **480-29598-10** **Client ID:** **OC-SB-529-1.0/3.0-XXX**

Sample Date/Time: 12/05/2012 12:35 Received Date/Time: 12/05/2012 18:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3546	480-29598-B-10-A		480-96347	480-95170	12/11/2012 08:51	1	TAL BUF	DE
A:8270D	480-29598-B-10-A		480-96347	480-95170	12/18/2012 20:42	1	TAL BUF	RMM
P:3060A	480-29598-A-10-A ^10		460-139572	460-139400	12/12/2012 11:54	10	TAL EDI	SEB
A:7199	480-29598-A-10-A ^10		460-139572	460-139400	12/13/2012 09:00	10	TAL EDI	SEB
A:9045C	480-29598-C-10-A		360-97368		12/06/2012 10:01	1	TAL WFD	GRB
A:Moisture	480-29598-A-10		460-138871		12/09/2012 12:15	1	TAL EDI	IR
A:SM 2580B	480-29598-C-10-B		360-97369		12/06/2012 10:01	1	TAL WFD	GRB

Lab ID: **480-29598-11** **Client ID:** **OC-DUP-2**

Sample Date/Time: 12/05/2012 00:00 Received Date/Time: 12/05/2012 18:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3550C	480-29598-A-11-A		200-49448	200-49268	12/10/2012 18:10	1	TAL BUR	TPB
A:Organotins/GC	480-29598-A-11-A		200-49448	200-49268	12/11/2012 23:39	1	TAL BUR	RRM
P:3050B	480-29598-B-11-C		480-97273	480-97077	12/21/2012 12:30	1	TAL BUF	SS
A:6010	480-29598-B-11-C		480-97273	480-97077	12/21/2012 20:00	1	TAL BUF	AH
A:Moisture	480-29598-B-11		480-94744		12/07/2012 15:01	1	TAL BUF	MD

Client: Olin Corporation

Job Number: 480-29598-1

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
P:3546	MB 480-95170/1-A		480-96347	480-95170	12/11/2012 08:50	1	TAL BUF	DE
A:8270D	MB 480-95170/1-A		480-96347	480-95170	12/18/2012 17:19	1	TAL BUF	RMM
P:3550C	MB 200-49268/1-A		200-49448	200-49268	12/10/2012 18:10	1	TAL BUR	TPB
A:Organotins/GC	MB 200-49268/1-A		200-49448	200-49268	12/11/2012 22:31	1	TAL BUR	RRM
P:3550C	MB 200-49894/1-A		200-50011	200-49894	12/22/2012 08:12	1	TAL BUR	JAB
A:Organotins/GC	MB 200-49894/1-A		200-50011	200-49894	12/26/2012 11:46	1	TAL BUR	SLD
P:3050B	MB 480-97077/1-A		480-97273	480-97077	12/21/2012 12:30	1	TAL BUF	SS
A:6010	MB 480-97077/1-A		480-97273	480-97077	12/21/2012 19:34	1	TAL BUF	AH
P:3060A	MB 460-139400/1-A ^10		460-139572	460-139400	12/12/2012 11:54	10	TAL EDI	SEB
A:7199	MB 460-139400/1-A ^10		460-139572	460-139400	12/12/2012 21:56	10	TAL EDI	SEB

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
P:3546	LCS 480-95170/2-A		480-96347	480-95170	12/11/2012 08:50	1	TAL BUF	DE
A:8270D	LCS 480-95170/2-A		480-96347	480-95170	12/18/2012 17:44	1	TAL BUF	RMM
P:3550C	LCS 200-49268/2-A		200-49448	200-49268	12/10/2012 18:10	1	TAL BUR	TPB
A:Organotins/GC	LCS 200-49268/2-A		200-49448	200-49268	12/11/2012 22:48	1	TAL BUR	RRM
P:3550C	LCS 200-49894/2-A		200-50011	200-49894	12/22/2012 08:12	1	TAL BUR	JAB
A:Organotins/GC	LCS 200-49894/2-A		200-50011	200-49894	12/26/2012 12:03	1	TAL BUR	SLD
A:9045C	LCS 360-97366/1-A		360-97368		12/06/2012 08:38	1	TAL WFD	GRB
A:SM 2580B	LCS 360-97367/1-A		360-97369		12/06/2012 09:01	1	TAL WFD	GRB

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
P:3546	LCSD 480-95170/3-A		480-96347	480-95170	12/11/2012 08:50	1	TAL BUF	DE
A:8270D	LCSD 480-95170/3-A		480-96347	480-95170	12/18/2012 18:10	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 480-97077/2-A		480-97273	480-97077	12/21/2012 12:30	1	TAL BUF	SS
A:6010	LCSSRM 480-97077/2-A		480-97273	480-97077	12/21/2012 19:36	1	TAL BUF	AH

Client: Olin Corporation

Job Number: 480-29598-1

Laboratory Chronicle

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 480-97077/3-A		480-97273	480-97077	12/21/2012 12:30	1	TAL BUF	SS
A:6010	LCDSRM 480-97077/3-A		480-97273	480-97077	12/21/2012 19:39	1	TAL BUF	AH

Lab ID: **LCSS** **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:3060A	LCSS 460-139400/2-A ^25		460-139572	460-139400	12/12/2012 11:54	25	TAL EDI	SEB
A:7199	LCSS 460-139400/2-A ^25		460-139572	460-139400	12/12/2012 22:21	25	TAL EDI	SEB
P:3060A	LCSI 460-139400/3-A ^500		460-139572	460-139400	12/12/2012 11:54	500	TAL EDI	SEB
A:7199	LCSI 460-139400/3-A ^500		460-139572	460-139400	12/12/2012 22:30	500	TAL EDI	SEB

Lab References:

TAL BUF = TestAmerica Buffalo

TAL BUR = TestAmerica Burlington

TAL EDI = TestAmerica Edison

TAL WFD = TestAmerica Westfield

Certification Summary

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

TestAmerica Job ID: 480-29598-1

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 Burlington	Connecticut	State Program	1	PH-0751
TestAmerica Burlington	DE Haz. Subst. Cleanup Act	State Program	3	NA
TestAmerica Burlington	Florida	NELAP	4	E87467
TestAmerica Burlington	L-A-B	DoD ELAP		L2336
TestAmerica Burlington	Louisiana	NELAP	6	176292
TestAmerica Burlington	Maine	State Program	1	VT00008
TestAmerica Burlington	Minnesota	NELAP	5	050-999-436
TestAmerica Burlington	New Hampshire	NELAP	1	200610
TestAmerica Burlington	New Jersey	NELAP	2	VT972
TestAmerica Burlington	New York	NELAP	2	10391
TestAmerica Burlington	Pennsylvania	NELAP	3	68-00489
TestAmerica Burlington	Rhode Island	State Program	1	LAO00298
TestAmerica Burlington	USDA	Federal		P330-11-00093
TestAmerica Burlington	Vermont	State Program	1	VT-4000
TestAmerica Burlington	Virginia	NELAP	3	460209
TestAmerica Edison	Connecticut	State Program	1	PH-0200
TestAmerica Edison	DE Haz. Subst. Cleanup Act	State Program	3	N/A
TestAmerica Edison	New Jersey	NELAP	2	12028
TestAmerica Edison	New York	NELAP	2	11452

Certification Summary

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

TestAmerica Job ID: 480-29598-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Edison	Pennsylvania	NELAP	3	68-00522
TestAmerica Edison	Rhode Island	State Program	1	LAO00132
TestAmerica Edison	USDA	Federal		NJCA-003-08
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.

8270_LL_MCP

Semivolatile Organic Compounds (GC/MS) Low Level

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-29598-1

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-SB-526-0.0/1.0-XXX	480-29598-3	54		65		55		60		59		55	
OC-SB-526-1.0/3.0-XXX	480-29598-4	53		54		51		66		62		67	
OC-SB-528-0.0/1.0-XXX	480-29598-7	0	X	0	X	0	X	0	X	0	X	0	X
OC-SB-528-1.0/3.0-XXX	480-29598-8	0	X	0	X	0	X	0	X	0	X	0	X
OC-SB-529-0.0/1.0-XXX	480-29598-9	59		83		60		68		71		63	
OC-SB-529-1.0/3.0-XXX	480-29598-10	53		48		53		57		63		71	
	MB 480-95170/1-A	84		93		68		76		73		105	
	LCS 480-95170/2-A	77		80		83		89		76		100	
	LCSD 480-95170/3-A	71		71		86		85		53		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.: 480-29598-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: X3144.D

Lab ID: LCS 480-95170/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,2,4-Trichlorobenzene	65.8	60.2	92	40-140	
1,2-Dichlorobenzene	65.8	55.0	84	40-140	
1,3-Dichlorobenzene	65.8	51.1	78	40-140	
Benzaldehyde	329	212	64		
1,4-Dichlorobenzene	65.8	58.8	89	40-140	
2,2'-oxybis[1-chloropropane]	65.8	52.7	80	40-140	
2,4,5-Trichlorophenol	65.8	49.6	75	30-130	
2,4,6-Trichlorophenol	65.8	43.2	66	30-130	
Benzyl alcohol	65.8	ND	0		
2,4-Dichlorophenol	65.8	56.8	86	30-130	
2,4-Dimethylphenol	65.8	74.3	113	30-130	
2,4-Dinitrophenol	65.8	49.6	75	30-130	
2,4-Dinitrotoluene	65.8	52.9	80	40-140	
4-Nitroaniline	65.8	51.6 J	78		
2,6-Dinitrotoluene	65.8	28.4 J	43	40-140	
2-Chloronaphthalene	65.8	113	172	40-140	*
2-Chlorophenol	65.8	53.2	81	30-130	
N-Nitrosodiphenylamine	65.8	98.8	150		
2-Methylnaphthalene	65.8	55.1	84	40-140	
2-Methylphenol	65.8	39.2	60	30-130	
2-Nitrophenol	65.8	46.9	71	30-130	
3,3'-Dichlorobenzidine	65.8	50.2 J	76	40-140	
2-Nitroaniline	65.8	47.3 J	72		
4-Bromophenyl phenyl ether	65.8	58.2	88	40-140	
Hexachlorocyclopentadiene	65.8	45.8 J	70		
4-Chloroaniline	65.8	36.3 J	55	40-140	
4-Nitrophenol	65.8	ND	0	30-130	*
Acenaphthene	65.8	53.7	82	40-140	
4,6-Dinitro-2-methylphenol	65.8	74.2 J	113		
1,2,4,5-Tetrachlorobenzene	132	112	85		
Acenaphthylene	65.8	60.1	91	40-140	
Acetophenone	461	380	83	40-140	
Aniline	197	98.6	50	40-140	
Anthracene	65.8	61.4	93	40-140	
Atrazine	329	231	70	40-140	
Azobenzene	197	189	96	40-140	
Benzo[a]anthracene	65.8	63.7	97	40-140	
Benzo[a]pyrene	65.8	52.1	79	40-140	
Benzo[b]fluoranthene	65.8	52.1	79	40-140	
Benzo[g,h,i]perylene	65.8	63.3	96	40-140	
Caprolactam	329	290	88		
3-Nitroaniline	65.8	48.7 J	74		

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.: 480-29598-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: X3144.D

Lab ID: LCS 480-95170/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Benzo[k]fluoranthene	65.8	74.1	113	40-140	
Bis(2-chloroethoxy)methane	65.8	56.6	86	40-140	
1,1'-Biphenyl	329	278	85		
Bis(2-chloroethyl)ether	65.8	59.8	91	40-140	
Bis(2-ethylhexyl) phthalate	65.8	ND	88	40-140	
Butyl benzyl phthalate	65.8	58.6	89	40-140	
Chrysene	65.8	61.3	93	40-140	
N-Nitrosodi-n-propylamine	65.8	61.6	94		
Benzoic acid	65.8	ND	1		
Dibenz(a,h)anthracene	65.8	67.6	103	40-140	
Dibenzofuran	65.8	61.8	94	40-140	
Diethyl phthalate	65.8	56.0	85	40-140	
Dimethyl phthalate	65.8	57.9	88	40-140	
Di-n-butyl phthalate	65.8	63.4 J	96	40-140	
Di-n-octyl phthalate	65.8	57.1	87	40-140	
Phenyl ether	263	212	80		
2,3,4,6-Tetrachlorophenol	132	65.0	49		
Fluoranthene	65.8	58.3	89	40-140	
4-Chloro-3-methylphenol	65.8	61.2 J	93		
Fluorene	65.8	53.7	82	40-140	
4-Chlorophenyl phenyl ether	65.8	59.6	91		
Hexachlorobenzene	65.8	57.0	87	40-140	
Hexachlorobutadiene	65.8	55.6	85	40-140	
Hexachloroethane	65.8	46.6	71	40-140	
Indeno[1,2,3-cd]pyrene	65.8	67.5	103	40-140	
Isophorone	65.8	57.0	87	40-140	
Naphthalene	65.8	56.9	87	40-140	
Nitrobenzene	65.8	61.4	93	40-140	
Pentachlorophenol	65.8	59.8	91	30-130	
Phenanthrene	65.8	60.8	92	40-140	
Benzophenone	263	216	82		
Phenol	65.8	59.9	91	30-130	
Pyrene	65.8	64.4	98	40-140	
N-Nitrosodimethylamine	197	155	78		
1-Methylnaphthalene	263	214	81		
4-Methylphenol	65.8	123	187		

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.: 480-29598-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: X3145.D

Lab ID: LCSD 480-95170/3-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	65.8	52.2	79	14	30	40-140	
1,2-Dichlorobenzene	65.8	50.5	77	8	30	40-140	
1,3-Dichlorobenzene	65.8	44.9	68	13	30	40-140	
Benzaldehyde	329	230	70	8			
1,4-Dichlorobenzene	65.8	53.1	81	10	30	40-140	
2,2'-oxybis[1-chloropropane]	65.8	48.1	73	9	30	40-140	
2,4,5-Trichlorophenol	65.8	54.4	83	9	30	30-130	
2,4,6-Trichlorophenol	65.8	43.4	66	0	30	30-130	
Benzyl alcohol	65.8	ND	0	NC			
2,4-Dichlorophenol	65.8	56.7	86	0	30	30-130	
2,4-Dimethylphenol	65.8	64.0	97	15	30	30-130	
2,4-Dinitrophenol	65.8	ND	41	59	30	30-130	*
2,4-Dinitrotoluene	65.8	50.2	76	5	30	40-140	
4-Nitroaniline	65.8	56.5 J	86	9			
2,6-Dinitrotoluene	65.8	29.7 J	45	4	30	40-140	
2-Chloronaphthalene	65.8	99.3	151	13	30	40-140	*
2-Chlorophenol	65.8	50.1	76	6	30	30-130	
N-Nitrosodiphenylamine	65.8	88.9	135	11			
2-Methylnaphthalene	65.8	56.2	85	2	30	40-140	
2-Methylphenol	65.8	40.9	62	4	30	30-130	
2-Nitrophenol	65.8	45.6	69	3	30	30-130	
3,3'-Dichlorobenzidine	65.8	42.5 J	65	17	30	40-140	
2-Nitroaniline	65.8	46.6 J	71	2			
4-Bromophenyl phenyl ether	65.8	54.3	82	7	30	40-140	
Hexachlorocyclopentadiene	65.8	37.2 J	57	21			
4-Chloroaniline	65.8	37.7 J	57	4	30	40-140	
4-Nitrophenol	65.8	ND	0	NC	30	30-130	*
Acenaphthene	65.8	49.9	76	7	30	40-140	
4,6-Dinitro-2-methylphenol	65.8	62.3 J	95	17			
1,2,4,5-Tetrachlorobenzene	132	113	86	1			
Acenaphthylene	65.8	53.6	82	11	30	40-140	
Acetophenone	461	360	78	6	30	40-140	
Aniline	197	111	56	12	30	40-140	
Anthracene	65.8	55.9	85	9	30	40-140	
Atrazine	329	249	76	8	30	40-140	
Azobenzene	197	178	90	6	30	40-140	
Benzo[a]anthracene	65.8	53.5	81	17	30	40-140	
Benzo[a]pyrene	65.8	50.0	76	4	30	40-140	
Benzo[b]fluoranthene	65.8	52.0	79	0	30	40-140	
Benzo[g,h,i]perylene	65.8	61.3	93	3	30	40-140	
Caprolactam	329	308	94	6			
3-Nitroaniline	65.8	43.1 J	65	12			

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.: 480-29598-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: X3145.D

Lab ID: LCSD 480-95170/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Benzo[k]fluoranthene	65.8	65.0	99	13	30	40-140	
Bis(2-chloroethoxy)methane	65.8	54.2	82	4	30	40-140	
1,1'-Biphenyl	329	273	83	2			
Bis(2-chloroethyl)ether	65.8	49.6	75	19	30	40-140	
Bis(2-ethylhexyl) phthalate	65.8	ND	80	9	30	40-140	
Butyl benzyl phthalate	65.8	50.5	77	15	30	40-140	
Chrysene	65.8	59.9	91	2	30	40-140	
N-Nitrosodi-n-propylamine	65.8	50.4	77	20			
Benzoic acid	65.8	ND	3	103			
Dibenz(a,h)anthracene	65.8	60.3	92	11	30	40-140	
Dibenzofuran	65.8	58.8	89	5	30	40-140	
Diethyl phthalate	65.8	52.5	80	7	30	40-140	
Dimethyl phthalate	65.8	52.8	80	9	30	40-140	
Di-n-butyl phthalate	65.8	55.9 J	85	12	30	40-140	
Di-n-octyl phthalate	65.8	54.0	82	6	30	40-140	
Phenyl ether	263	201	76	5			
2,3,4,6-Tetrachlorophenol	132	73.9	56	13			
Fluoranthene	65.8	54.0	82	8	30	40-140	
4-Chloro-3-methylphenol	65.8	45.6 J	69	29			
Fluorene	65.8	49.9	76	7	30	40-140	
4-Chlorophenyl phenyl ether	65.8	51.7	79	14			
Hexachlorobenzene	65.8	59.0	90	3	30	40-140	
Hexachlorobutadiene	65.8	52.2	79	6	30	40-140	
Hexachloroethane	65.8	47.6	72	2	30	40-140	
Indeno[1,2,3-cd]pyrene	65.8	48.6	74	33	30	40-140	*
Isophorone	65.8	55.7	85	2	30	40-140	
Naphthalene	65.8	50.8	77	11	30	40-140	
Nitrobenzene	65.8	63.0	96	3	30	40-140	
Pentachlorophenol	65.8	54.6	83	9	30	30-130	
Phenanthrene	65.8	54.2	82	11	30	40-140	
Benzophenone	263	186	71	15			
Phenol	65.8	64.4	98	7	30	30-130	
Pyrene	65.8	57.4	87	11	30	40-140	
N-Nitrosodimethylamine	197	165	83	6			
1-Methylnaphthalene	263	202	77	6			
4-Methylphenol	65.8	113	171	9			

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.: 480-29598-1

SDG No.:

Lab File ID: X3143.D Lab Sample ID: MB 480-95170/1-A

Matrix: Solid Date Extracted: 12/11/2012 08:50

Instrument ID: HP5973X Date Analyzed: 12/18/2012 17:19

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-95170/2-A	X3144.D	12/18/2012 17:44
	LCSD 480-95170/3-A	X3145.D	12/18/2012 18:10
OC-SB-526-0.0/1.0-XXX	480-29598-3	X3146.D	12/18/2012 18:35
OC-SB-526-1.0/3.0-XXX	480-29598-4	X3147.D	12/18/2012 19:00
OC-SB-528-0.0/1.0-XXX	480-29598-7	X3148.D	12/18/2012 19:26
OC-SB-528-1.0/3.0-XXX	480-29598-8	X3149.D	12/18/2012 19:51
OC-SB-529-0.0/1.0-XXX	480-29598-9	X3150.D	12/18/2012 20:16
OC-SB-529-1.0/3.0-XXX	480-29598-10	X3151.D	12/18/2012 20:42

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

Lab Name: TestAmerica Buffalo Job No.: 480-29598-1

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
	ICV 480-96347/11	X3140.D	12/18/2012	15:10
	CCVIS 480-96347/13	X3142.D	12/18/2012	16:53
	MB 480-95170/1-A	X3143.D	12/18/2012	17:19
	LCS 480-95170/2-A	X3144.D	12/18/2012	17:44
	LCSD 480-95170/3-A	X3145.D	12/18/2012	18:10
OC-SB-526-0.0/1.0-XXX	480-29598-3	X3146.D	12/18/2012	18:35
OC-SB-526-1.0/3.0-XXX	480-29598-4	X3147.D	12/18/2012	19:00
OC-SB-528-0.0/1.0-XXX	480-29598-7	X3148.D	12/18/2012	19:26
OC-SB-528-1.0/3.0-XXX	480-29598-8	X3149.D	12/18/2012	19:51
OC-SB-529-0.0/1.0-XXX	480-29598-9	X3150.D	12/18/2012	20:16
OC-SB-529-1.0/3.0-XXX	480-29598-10	X3151.D	12/18/2012	20:42

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

Lab Name: TestAmerica Buffalo Job No.: 480-29598-1

SDG No.:

Sample No.: ICIS 480-96347/6 Date Analyzed: 12/18/2012 13:01

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): X3135.D Heated Purge: (Y/N) N

Calibration ID: 11641

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		239006	6.58	899352	8.47	580354	11.11
UPPER LIMIT		478012	7.08	1798704	8.97	1160708	11.61
LOWER LIMIT		119503	6.08	449676	7.97	290177	10.61
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 480-96347/11		282864	6.54	1017248	8.43	632460	11.08
CCVIS 480-96347/13		281408	6.54	1040860	8.43	686800	11.04

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.: 480-29598-1

SDG No.:

Sample No.: ICIS 480-96347/6 Date Analyzed: 12/18/2012 13:01

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): X3135.D Heated Purge: (Y/N) N

Calibration ID: 11641

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		999064	13.12	870912	15.76	874986	17.03
UPPER LIMIT		1998128	13.62	1741824	16.26	1749972	17.53
LOWER LIMIT		499532	12.62	435456	15.26	437493	16.53
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 480-96347/11		1146776	13.11	1030518	15.75	967545	17.02
CCVIS 480-96347/13		1182347	13.05	992250	15.72	973892	17.00

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.: 480-29598-1

SDG No.:

Sample No.: CCVIS 480-96347/13 Date Analyzed: 12/18/2012 16:53

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): X3142.D Heated Purge: (Y/N) N

Calibration ID: 11641

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		281408	6.54	1040860	8.43	686800	11.04
UPPER LIMIT		562816	7.04	2081720	8.93	1373600	11.54
LOWER LIMIT		140704	6.04	520430	7.93	343400	10.54
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-95170/1-A		225985	6.56	809629	8.46	498061	11.11
LCS 480-95170/2-A		231141	6.57	845678	8.46	513723	11.10
LCSD 480-95170/3-A		249224	6.57	895870	8.46	546820	11.10
480-29598-3	OC-SB-526-0.0/1.0-XXX	234566	6.57	834281	8.47	485513	11.11
480-29598-4	OC-SB-526-1.0/3.0-XXX	225764	6.54	816686	8.45	479955	11.09
480-29598-7	OC-SB-528-0.0/1.0-XXX	213356	6.54	830709	8.46	472638	11.09
480-29598-8	OC-SB-528-1.0/3.0-XXX	224912	6.54	820326	8.46	530586	11.10
480-29598-9	OC-SB-529-0.0/1.0-XXX	232393	6.54	904086	8.46	540648	11.09
480-29598-10	OC-SB-529-1.0/3.0-XXX	214742	6.55	770129	8.46	487589	11.10

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.: 480-29598-1

SDG No.:

Sample No.: CCVIS 480-96347/13 Date Analyzed: 12/18/2012 16:53

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): X3142.D Heated Purge: (Y/N) N

Calibration ID: 11641

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1182347	13.05	992250	15.72	973892	17.00
UPPER LIMIT		2364694	13.55	1984500	16.22	1947784	17.50
LOWER LIMIT		591174	12.55	496125	15.22	486946	16.50
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-95170/1-A		798311	13.13	677131	15.75	490661	17.03
LCS 480-95170/2-A		825641	13.12	640868	15.75	629407	17.02
LCSD 480-95170/3-A		888817	13.11	684125	15.72	660531	17.00
480-29598-3	OC-SB-526-0.0/1.0-XXX	766786	13.10	631025	15.73	647449	17.00
480-29598-4	OC-SB-526-1.0/3.0-XXX	882663	13.09	746886	15.73	744210	17.00
480-29598-7	OC-SB-528-0.0/1.0-XXX	787383	13.09	702580	15.72	4345490*	17.01
480-29598-8	OC-SB-528-1.0/3.0-XXX	893116	13.10	711338	15.73	797611	17.01
480-29598-9	OC-SB-529-0.0/1.0-XXX	857612	13.10	663564	15.74	863043	17.01
480-29598-10	OC-SB-529-1.0/3.0-XXX	845521	13.10	641903	15.74	815511	17.01

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.: 480-29598-1

SDG No.:

Client Sample ID: OC-SB-526-0.0/1.0-XXX | Lab Sample ID: 480-29598-3

Matrix: Solid | Lab File ID: X3146.D

Analysis Method: 8270D | Date Collected: 12/05/2012 10:40

Extract. Method: 3546 | Date Extracted: 12/11/2012 08:51

Sample wt/vol: 000030.5(g) | Date Analyzed: 12/18/2012 18:35

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

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

% Moisture: 41.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 96347 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	ND		56	17
95-50-1	1,2-Dichlorobenzene	ND		56	17
541-73-1	1,3-Dichlorobenzene	ND		56	17
100-52-7	Benzaldehyde	56		56	17
106-46-7	1,4-Dichlorobenzene	ND		56	17
108-60-1	2,2'-oxybis[1-chloropropane]	ND		56	17
95-95-4	2,4,5-Trichlorophenol	ND		56	19
88-06-2	2,4,6-Trichlorophenol	ND		56	24
100-51-6	Benzyl alcohol	ND		110	17
120-83-2	2,4-Dichlorophenol	ND		56	17
105-67-9	2,4-Dimethylphenol	ND		56	17
51-28-5	2,4-Dinitrophenol	ND	*	56	45
121-14-2	2,4-Dinitrotoluene	ND		56	17
100-01-6	4-Nitroaniline	ND		280	47
606-20-2	2,6-Dinitrotoluene	ND		56	47
91-58-7	2-Chloronaphthalene	ND	*	56	17
95-57-8	2-Chlorophenol	ND		56	17
86-30-6	N-Nitrosodiphenylamine	ND		56	17
91-57-6	2-Methylnaphthalene	ND		56	17
95-48-7	2-Methylphenol	ND		56	17
88-75-5	2-Nitrophenol	ND		56	22
15831-10-4	3 & 4 Methylphenol	ND		56	17
91-94-1	3,3'-Dichlorobenzidine	ND		110	20
88-74-4	2-Nitroaniline	ND		280	71
101-55-3	4-Bromophenyl phenyl ether	ND		56	17
77-47-4	Hexachlorocyclopentadiene	ND		110	17
106-47-8	4-Chloroaniline	ND		110	50
100-02-7	4-Nitrophenol	ND	*	280	24
83-32-9	Acenaphthene	ND		56	17
534-52-1	4,6-Dinitro-2-methylphenol	ND		280	54
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		56	17
208-96-8	Acenaphthylene	ND		56	17
98-86-2	Acetophenone	ND		56	17
62-53-3	Aniline	ND		56	17

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-29598-1

SDG No.:

Client Sample ID: OC-SB-526-0.0/1.0-XXX | Lab Sample ID: 480-29598-3

Matrix: Solid | Lab File ID: X3146.D

Analysis Method: 8270D | Date Collected: 12/05/2012 10:40

Extract. Method: 3546 | Date Extracted: 12/11/2012 08:51

Sample wt/vol: 000030.5(g) | Date Analyzed: 12/18/2012 18:35

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

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

% Moisture: 41.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 96347 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-12-7	Anthracene	ND		56	17
1912-24-9	Atrazine	ND		56	17
103-33-3	Azobenzene	ND		56	17
56-55-3	Benzo[a]anthracene	ND		56	17
50-32-8	Benzo[a]pyrene	ND		56	17
205-99-2	Benzo[b]fluoranthene	ND		56	17
191-24-2	Benzo[g,h,i]perylene	ND		56	17
105-60-2	Caprolactam	ND		56	17
99-09-2	3-Nitroaniline	ND		280	17
207-08-9	Benzo[k]fluoranthene	ND		56	29
111-91-1	Bis(2-chloroethoxy)methane	ND		56	17
92-52-4	1,1'-Biphenyl	ND		56	17
111-44-4	Bis(2-chloroethyl)ether	ND		56	17
117-81-7	Bis(2-ethylhexyl) phthalate	ND		280	110
85-68-7	Butyl benzyl phthalate	ND		56	17
218-01-9	Chrysene	ND		56	17
621-64-7	N-Nitrosodi-n-propylamine	ND		56	17
65-85-0	Benzoic acid	ND		280	25
53-70-3	Dibenz(a,h)anthracene	ND		56	17
132-64-9	Dibenzofuran	ND		56	17
84-66-2	Diethyl phthalate	ND		56	19
131-11-3	Dimethyl phthalate	ND		56	17
84-74-2	Di-n-butyl phthalate	ND		280	84
117-84-0	Di-n-octyl phthalate	ND		56	17
101-84-8	Phenyl ether	ND		56	17
58-90-2	2,3,4,6-Tetrachlorophenol	ND		56	17
206-44-0	Fluoranthene	ND		56	17
59-50-7	4-Chloro-3-methylphenol	ND		110	17
86-73-7	Fluorene	ND		56	17
7005-72-3	4-Chlorophenyl phenyl ether	ND		56	17
118-74-1	Hexachlorobenzene	ND		56	17
87-68-3	Hexachlorobutadiene	ND		56	17
67-72-1	Hexachloroethane	ND		56	17
193-39-5	Indeno[1,2,3-cd]pyrene	ND	*	56	17

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-29598-1

SDG No.:

Client Sample ID: OC-SB-526-0.0/1.0-XXX | Lab Sample ID: 480-29598-3

Matrix: Solid | Lab File ID: X3146.D

Analysis Method: 8270D | Date Collected: 12/05/2012 10:40

Extract. Method: 3546 | Date Extracted: 12/11/2012 08:51

Sample wt/vol: 000030.5(g) | Date Analyzed: 12/18/2012 18:35

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

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

% Moisture: 41.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 96347 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
78-59-1	Isophorone	ND		56	17
91-20-3	Naphthalene	ND		56	17
98-95-3	Nitrobenzene	ND		56	17
87-86-5	Pentachlorophenol	ND		56	17
85-01-8	Phenanthrene	ND		56	17
119-61-9	Benzophenone	ND		56	17
108-95-2	Phenol	ND		56	17
129-00-0	Pyrene	ND		56	17
62-75-9	N-Nitrosodimethylamine	ND		56	17
86-74-8	Carbazole	ND		56	17
90-12-0	1-Methylnaphthalene	ND		56	17
106-44-5	4-Methylphenol	ND		56	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	59		30-130
367-12-4	2-Fluorophenol	54		30-130
4165-60-0	Nitrobenzene-d5	55		30-130
4165-62-2	Phenol-d5	65		30-130
321-60-8	2-Fluorobiphenyl	60		30-130
1718-51-0	p-Terphenyl-d14	55		30-130

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

Lab Name: TestAmerica Buffalo | Job No.: 480-29598-1

SDG No.:

Client Sample ID: OC-SB-526-0.0/1.0-XXX | Lab Sample ID: 480-29598-3

Matrix: Solid | Lab File ID: X3146.D

Analysis Method: 8270D | Date Collected: 12/05/2012 10:40

Extract. Method: 3546 | Date Extracted: 12/11/2012 08:51

Sample wt/vol: 000030.5(g) | Date Analyzed: 12/18/2012 18:35

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

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

% Moisture: 41.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 96347 | Units: ug/Kg

Number TICs Found: 10 | TIC Result Total: 13310

CAS NO.	COMPOUND NAME	RT	RESULT	Q
141-79-7	3-Penten-2-one, 4-methyl-	3.56	150	T J N
4161-60-8	2-Pentanone, 4-hydroxy-	3.85	130	T J N
98-1-1	Furfural	4.08	420	T J N
123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	4.23	11000	T J N
106-42-3	p-Xylene	4.66	850	T J N
57-10-3	n-Hexadecanoic acid	13.76	110	T J N
629-92-5	Nonadecane	16.11	100	T J N
638-67-5	Tricosane	16.66	210	T J N
630-4-6	Hentriacontane	17.27	190	T J N
1000193-60-8	1,1,4a-Trimethyl-5,6-dimethylenedecahydr	18.45	150	T J N

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3146.D
Lims ID: 480-29598-B-3-A Client ID: OC-SB-526-0.0/1.0-XXX
Inject. Date: 18-Dec-2012 18:35:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 480-0017654-017
Misc. Info.:
Operator: ANM Instrument ID: HP5973X
Injection Vol: 1.0 ul ALS Bottle#: 18
Lims Batch ID: 96347 Lims Sample ID: 17
Detector: MS SCAN

Method: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X-8270LL.m
Last Update: 09-Mar-2013 09:11:13 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: 19-Dec-2012 09:03:19

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.565	6.537	0.028	87	234566	5.00	
* 2 Naphthalene-d8	136	8.467	8.425	0.042	98	834281	5.00	
* 3 Acenaphthene-d10	164	11.112	11.035	0.077	87	485513	5.00	
* 4 Phenanthrene-d10	188	13.099	13.052	0.047	96	766786	5.00	
* 5 Chrysene-d12	240	15.729	15.720	0.009	92	631025	5.00	
* 6 Perylene-d12	264	17.004	17.004	0.0	98	647449	5.00	
$ 7 2-Fluorophenol	112	4.692	4.672	0.020	1	57011	1.07	M
$ 8 Phenol-d5	99	6.166	6.061	0.105	0	84357	1.30	M
$ 9 Nitrobenzene-d5	82	7.416	7.374	0.042	85	69130	1.11	M
$ 10 2-Fluorobiphenyl	172	10.127	10.056	0.071	89	145211	1.19	
$ 11 2,4,6-Tribromophenol	330	12.286	12.196	0.090	0	16756	1.19	M
$ 12 p-Terphenyl-d14	244	14.759	14.740	0.019	94	133262	1.10	
19 N-Nitrosodimethylamine	42		2.918					
21 Benzaldehyde	77	5.933	5.909	0.024	85	45520	0.99	
23 Aniline	93		6.071					
22 Phenol	94		6.080					9
24 Bis(2-chloroethyl)ether	93		6.170					
25 2-Chlorophenol	128		6.237					19
26 1,3-Dichlorobenzene	146		6.451					9
27 1,4-Dichlorobenzene	146		6.565					9
28 Benzyl alcohol	108		6.774					
29 1,2-Dichlorobenzene	146		6.784					
31 2-Methylphenol	108		6.965					9
32 2,2'-oxybis[1-chloropropane]	45		6.979					
33 Acetophenone	105	7.193	7.155	0.038	54	12936	0.1487	
34 N-Nitrosodi-n-propylamine	70		7.164					19
35 DFTPP								
36 4-Methylphenol	108		7.212					
37 Hexachloroethane	117		7.274					19
38 Nitrobenzene	77		7.402					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
40 Isophorone	82		7.764					
41 2-Nitrophenol	139		7.873					19
43 2,4-Dimethylphenol	107		7.987					9
45 Bis(2-chloroethoxy)methane	93		8.111					1
44 Benzoic acid	105		8.168					
47 2,4-Dichlorophenol	162		8.268					9
48 1,2,4-Trichlorobenzene	180		8.348					
49 Naphthalene	128		8.458					9
51 4-Chloroaniline	127		8.586					
52 Hexachlorobutadiene	225		8.653					9
54 Caprolactam	113		9.114					
55 4-Chloro-3-methylphenol	107		9.371					149
56 2-Methylnaphthalene	142		9.495					
57 1-Methylnaphthalene	142	9.713	9.637	0.076	51	5505	0.0461	
58 Hexachlorocyclopentadiene	237		9.728					
59 1,2,4,5-Tetrachlorobenzene	216		9.747					
60 2,4,6-Trichlorophenol	196		9.951					19
61 2,4,5-Trichlorophenol	196		10.037					19
62 1,1'-Biphenyl	154		10.198					
63 2-Chloronaphthalene	162		10.241					9
64 Phenyl ether	170		10.360					
65 2-Nitroaniline	65		10.417					
67 Dimethyl phthalate	163		10.693					9
68 2,6-Dinitrotoluene	165		10.783					
69 Acenaphthylene	152		10.821					9
70 3-Nitroaniline	138		11.045					
71 Acenaphthene	153		11.083					
72 2,4-Dinitrophenol	184		11.211					
73 Dibenzofuran	168		11.349					
74 2,4-Dinitrotoluene	165		11.387					
75 4-Nitrophenol	109		11.421					
76 2,3,4,6-Tetrachlorophenol	232		11.563					
78 Diethyl phthalate	149		11.744					
79 Fluorene	166		11.853					
80 4-Chlorophenyl phenyl ether	204		11.868					149
81 4-Nitroaniline	138		11.953					
82 4,6-Dinitro-2-methylphenol	198		11.982					
83 N-Nitrosodiphenylamine	169		12.048					
16 1,2-Diphenylhydrazine	77		12.086					
85 Azobenzene	77		12.086					
86 Benzophenone	105		12.110					
89 4-Bromophenyl phenyl ether	248		12.519					149
91 Hexachlorobenzene	284		12.581					
93 Atrazine	200		12.771					9
94 Pentachlorophenol	266		12.852					9
97 Phenanthrene	178		13.080					
98 Anthracene	178	13.133	13.142	-0.009	23	21258	0.1221	
99 Carbazole	167		13.351					
102 Di-n-butyl phthalate	149		13.741					
104 Fluoranthene	202	14.402	14.364	0.038	41	18939	0.1119	
106 Pyrene	202	14.626	14.588	0.038	79	14693	0.0869	
108 Butyl benzyl phthalate	149		15.196					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
109 3,3'-Dichlorobenzidine	252		15.691					
110 Bis(2-ethylhexyl) phthalate	149	15.705	15.696	0.009	44	10467	0.0813	
111 Benzo[a]anthracene	228		15.705					
112 Chrysene	228		15.743					
113 Di-n-octyl phthalate	149		16.238					
114 Benzo[b]fluoranthene	252		16.647					9
115 Benzo[k]fluoranthene	252		16.666					
116 Benzo[a]pyrene	252		16.951					
117 Indeno[1,2,3-cd]pyrene	276		18.093					
118 Dibenz(a,h)anthracene	278		18.093					
119 Benzo[g,h,i]perylene	276		18.411					9
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\20121218-17654.b\X3146.D		
Lims ID:	480-29598-B-3-A	Client ID:	OC-SB-526-0.0/1.0-XXX
Inject. Date:	18-Dec-2012 18:35:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	480-0017654-017		
Misc. Info.:			
Operator:	ANM	Instrument ID:	HP5973X
Injection Vol:	1.0 ul	ALS Bottle#:	18
Lims Batch ID:	96347	Lims Sample ID:	17
Detector:	MS SCAN		
Method:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X-8270LL.m		
Last Update:	09-Mar-2013 09:11:13	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:	10		
Process Host:	XAWRK034		

First Level Reviewer: mckernar Date: 19-Dec-2012 09:03:19

Tentative Identified Compound Results

RT	Response	Amount ng/uL	Quant Cpnd	Qual	Lib Entry	Flags
141-79-7 3-Penten-2-one, 4-methyl-						
3.555	862606	2.67	1	86	116425	
4161-60-8 2-Pentanone, 4-hydroxy-						
3.850	749440	2.32	1	72	4886	
98-1-1 Furfural						
4.078	2394878	7.41	1	91	41824	
123-42-2 2-Pentanone, 4-hydroxy-4-methyl-						
4.225	62773971	194.2	1	43	109755	
106-42-3 p-Xylene						
4.658	4878971	15.1	1	97	117404	
57-10-3 n-Hexadecanoic acid						
13.756	886579	1.91	4	95	114901	
629-92-5 Nonadecane						
16.114	682244	1.84	5	95	16515	
638-67-5 Tricosane						
16.661	1453299	3.70	6	94	109661	
630-4-6 Hentriacontane						
17.265	1323384	3.37	6	93	112561	
1000193-60-8 1,1,4a-Trimethyl-5,6-dimethylenedecahydr						
18.454	1041520	2.65	6	41	83998	

Quantitation Compounds

Compound	RT	Response	Amount ng/uL

Report Date: 09-Mar-2013 09:11:19 Chrom Revision: 2.0 01-Feb-2013 10:03:10
Data File: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3146.D

Compound	RT	Response	Amount ng/uL
* 1 1,4-Dichlorobenzene-d4	6.565	1616238	5.00
* 4 Phenanthrene-d10	13.099	2321067	5.00
* 5 Chrysene-d12	15.729	1857203	5.00
* 6 Perylene-d12	17.004	1962097	5.00

QC Flag Legend

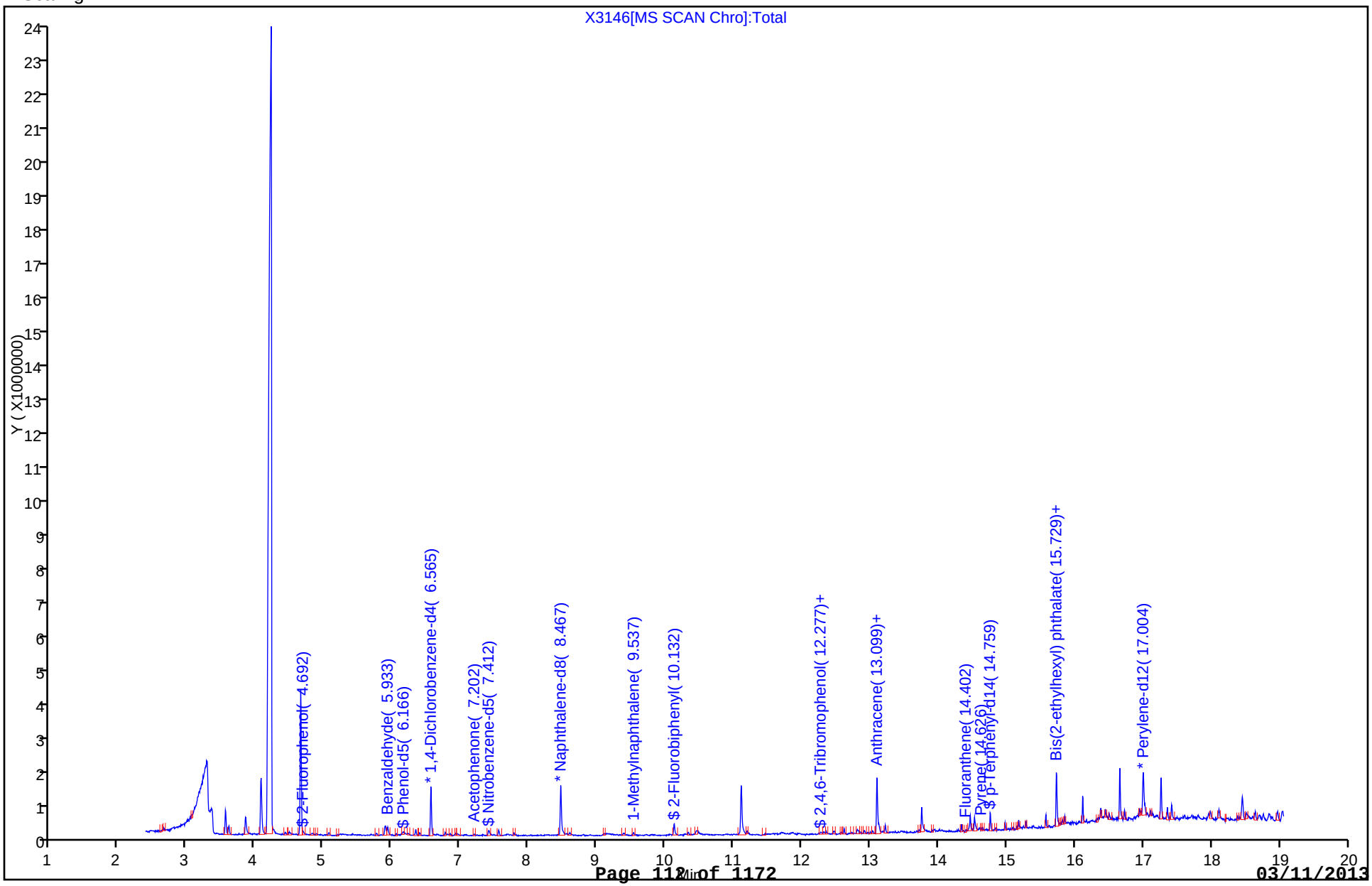
Processing Flags

Report Date: 09-Mar-2013 09:11:19 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3146.D		
Injection Date:	18-Dec-2012 18:35:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-526-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	17
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Y Scaling:

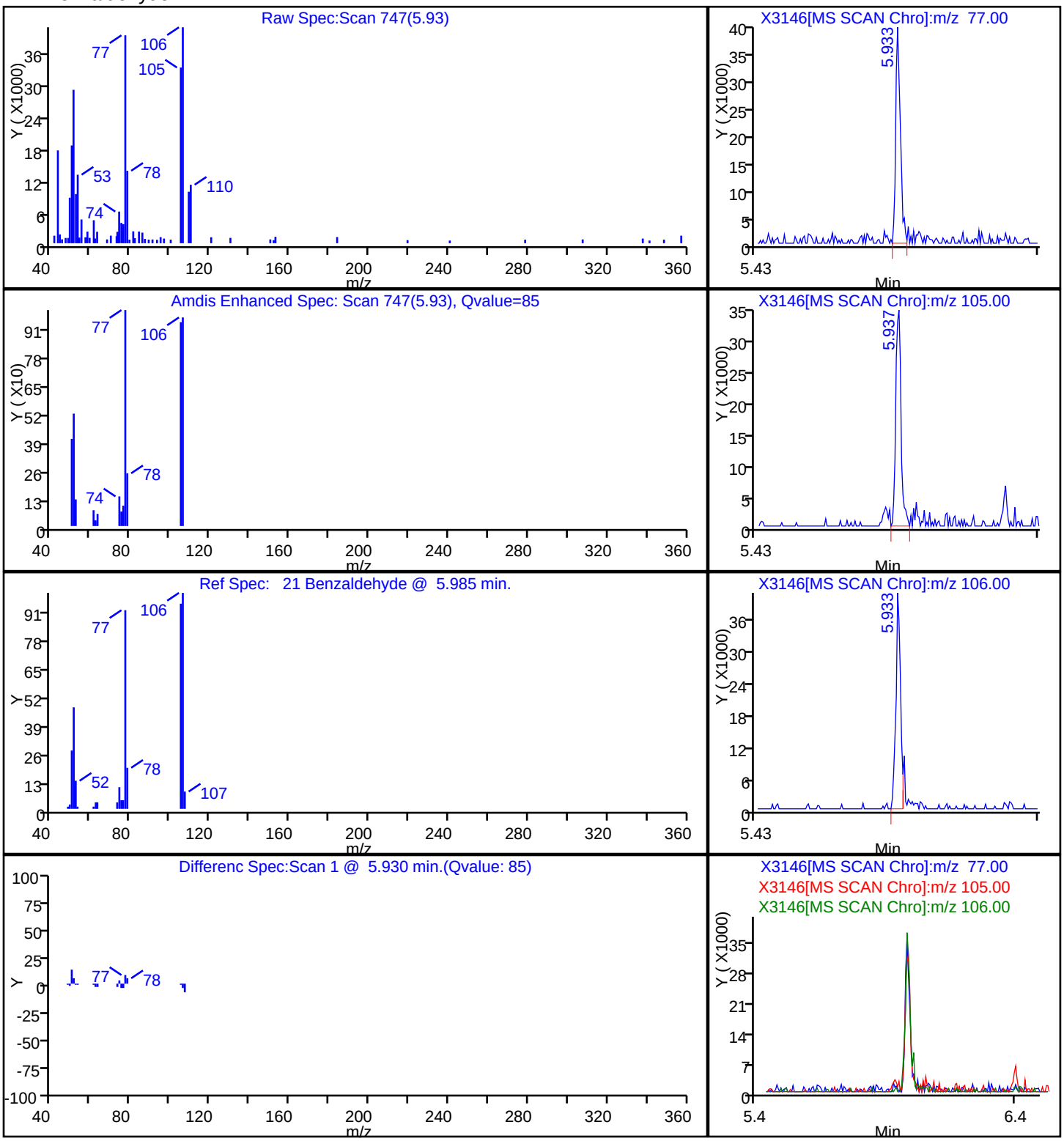


Report Date: 09-Mar-2013 09:11:19 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3146.D		
Injection Date:	18-Dec-2012 18:35:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-526-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	17
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

21 Benzaldehyde



Report Date: 09-Mar-2013 09:11:19 Chrom Revision: 2.0 01-Feb-2013 10:03:10

Manual Integration/User Assign Peak Report

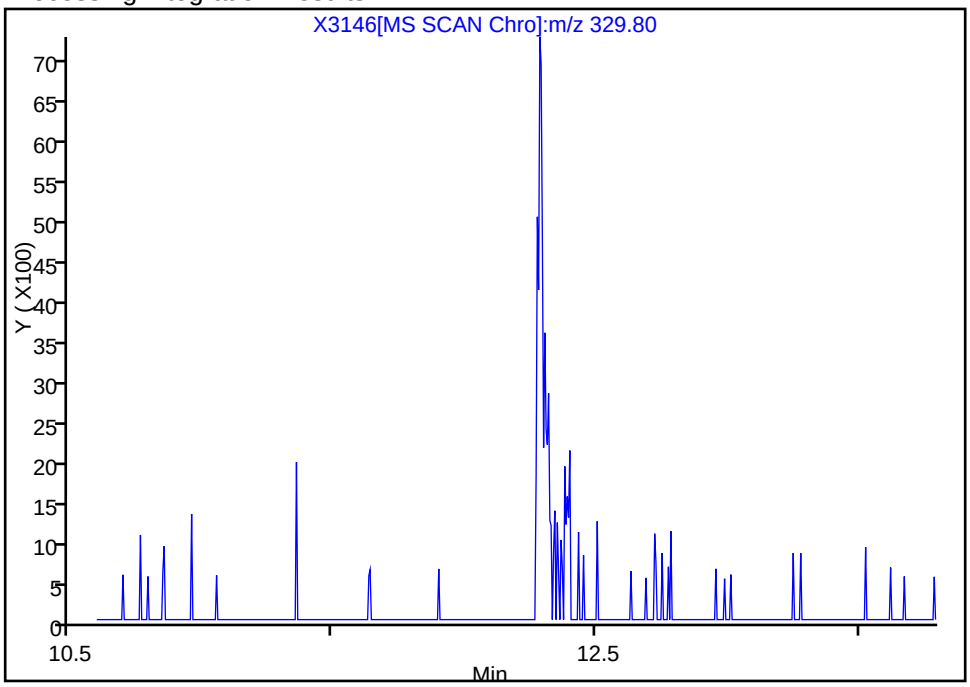
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3146.D		
Injection Date:	18-Dec-2012 18:35:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-526-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	17
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: 12.20

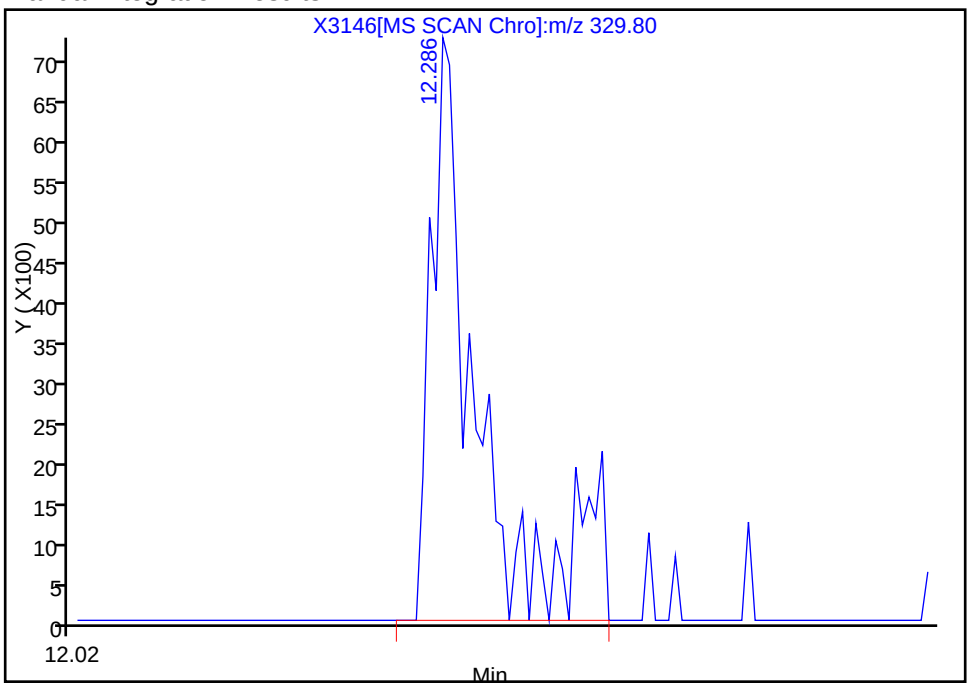
Processing Integration Results

Not Detected
Expected RT: 12.20



Manual Integration Results

RT: 12.29
Response: 16756
Amount: 1.187876



Reviewer: mckernar, 19-Dec-2012 09:03:19
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

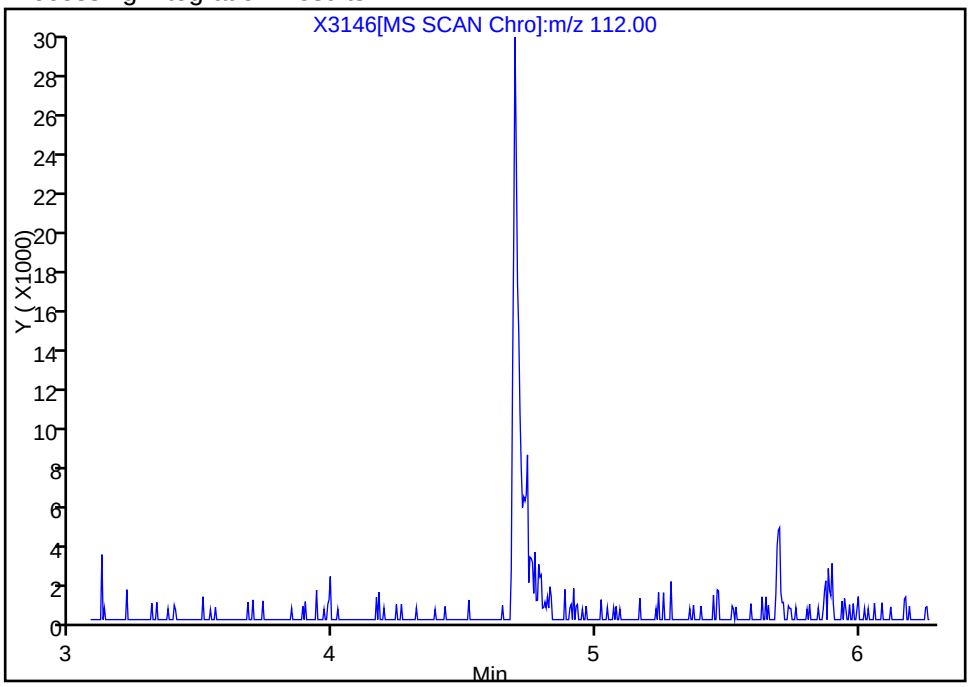
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3146.D		
Injection Date:	18-Dec-2012 18:35:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-526-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	17
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: 4.67

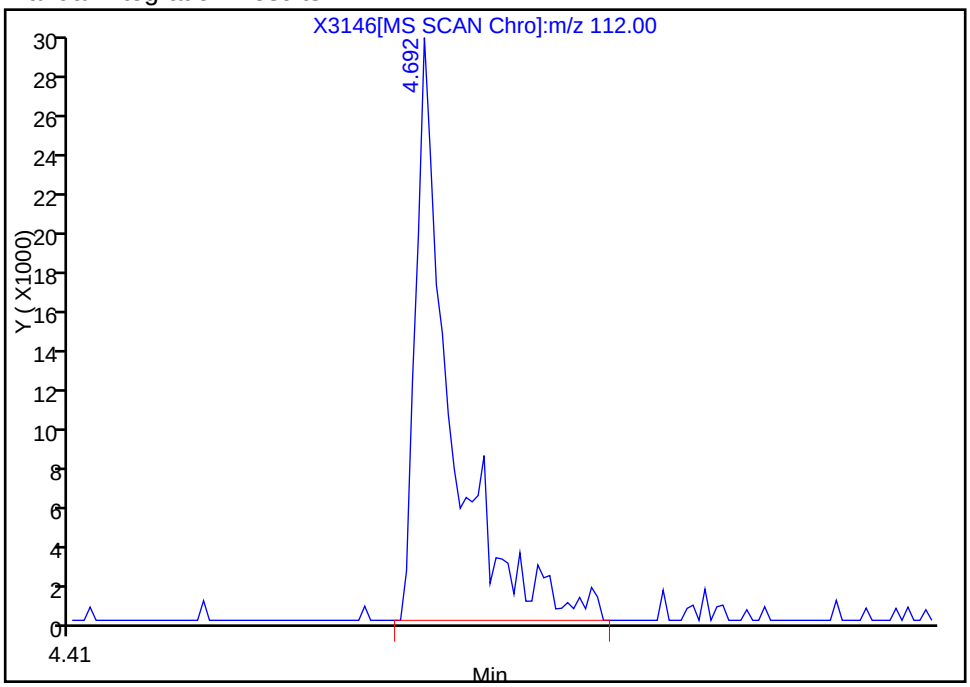
Processing Integration Results

Not Detected
Expected RT: 4.67



Manual Integration Results

RT: 4.69
Response: 57011
Amount: 1.071023



Reviewer: mckernar, 19-Dec-2012 09:03:19
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

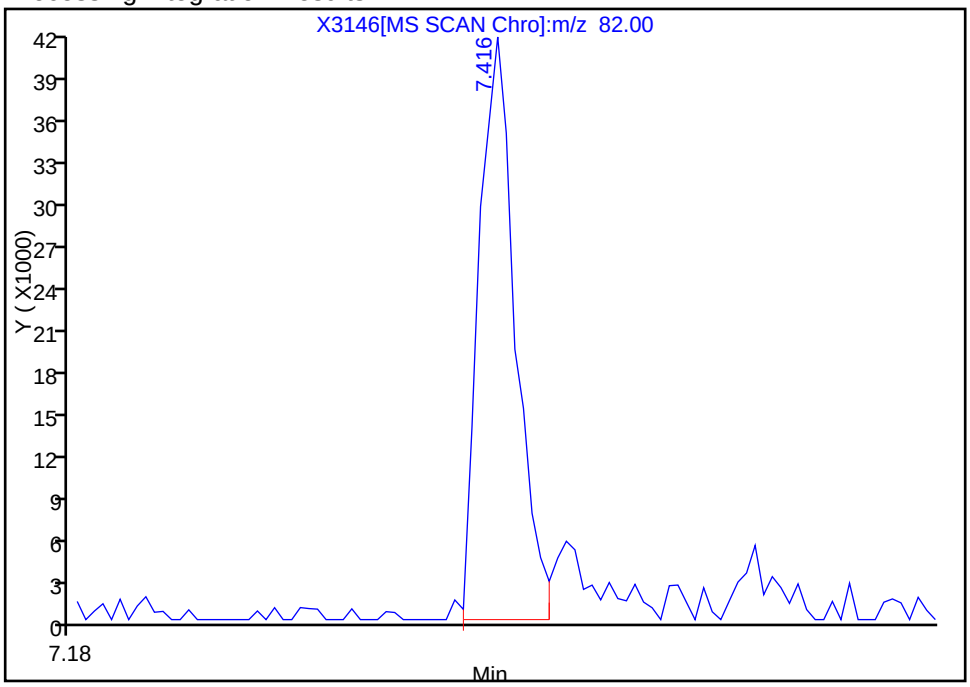
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3146.D		
Injection Date:	18-Dec-2012 18:35:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-526-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	17
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: 7.37

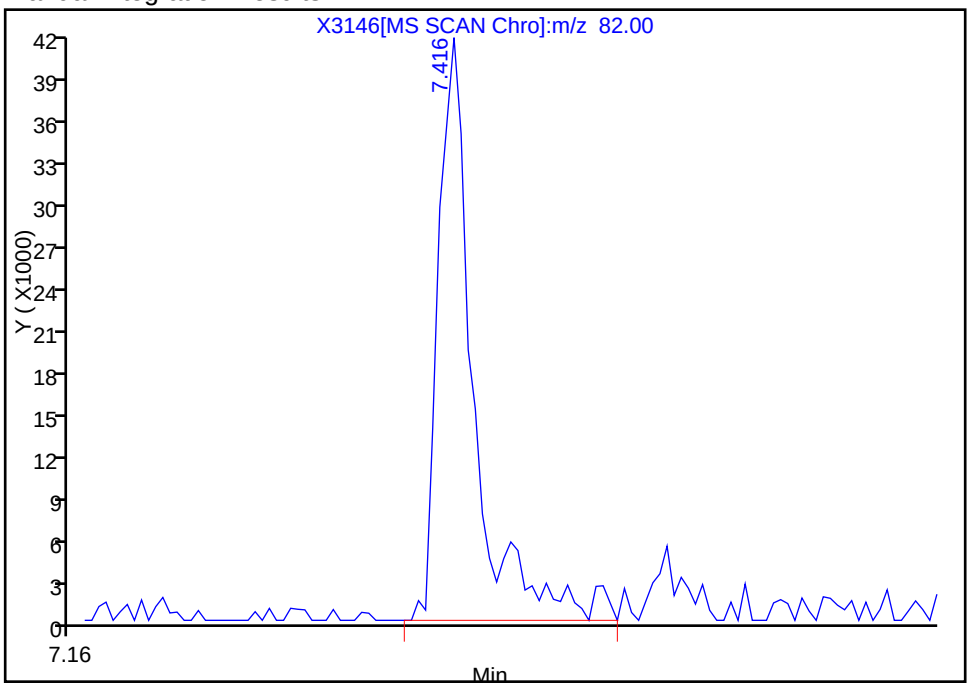
Processing Integration Results

RT: 7.42
Response: 58178
Amount: 0.804239



Manual Integration Results

RT: 7.42
Response: 69130
Amount: 1.105187



Reviewer: mckernar, 19-Dec-2012 09:03:19
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

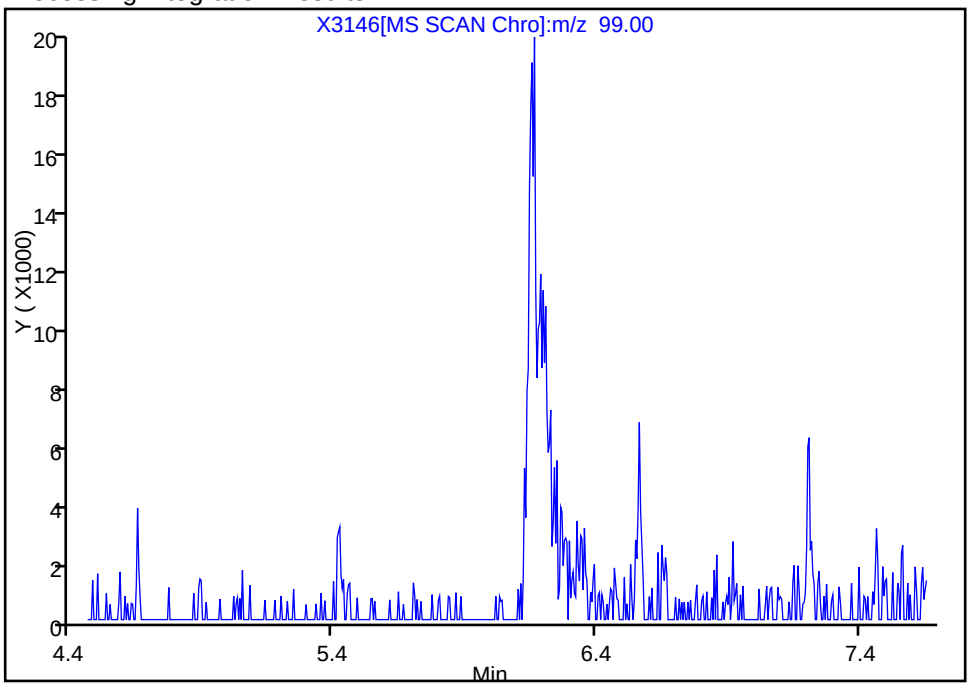
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3146.D		
Injection Date:	18-Dec-2012 18:35:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-526-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	17
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: 6.06

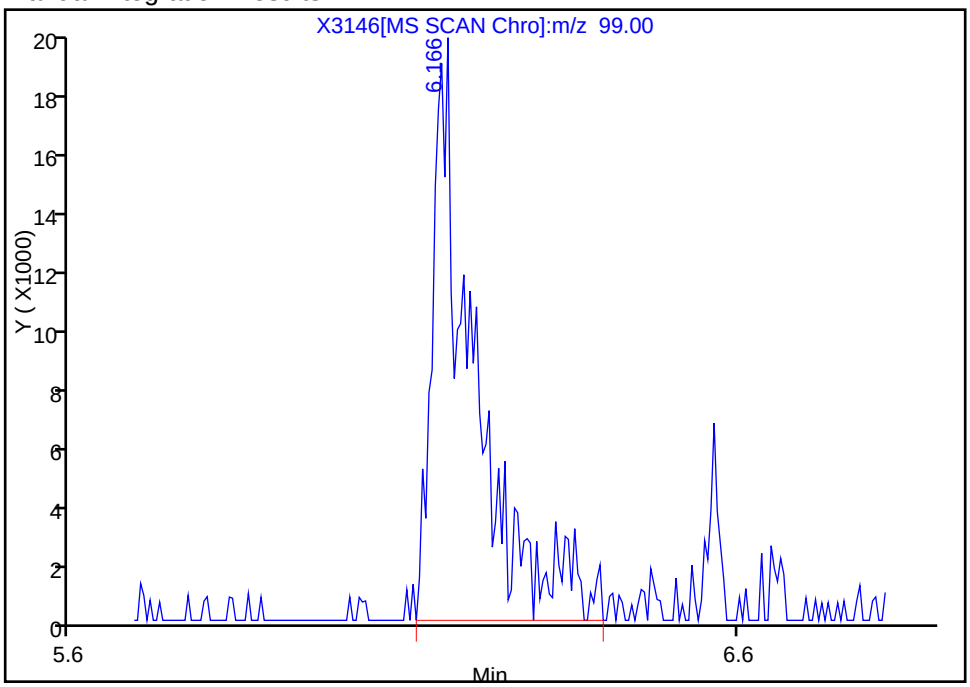
Processing Integration Results

Not Detected
Expected RT: 6.06



Manual Integration Results

RT: 6.17
Response: 84357
Amount: 1.302092



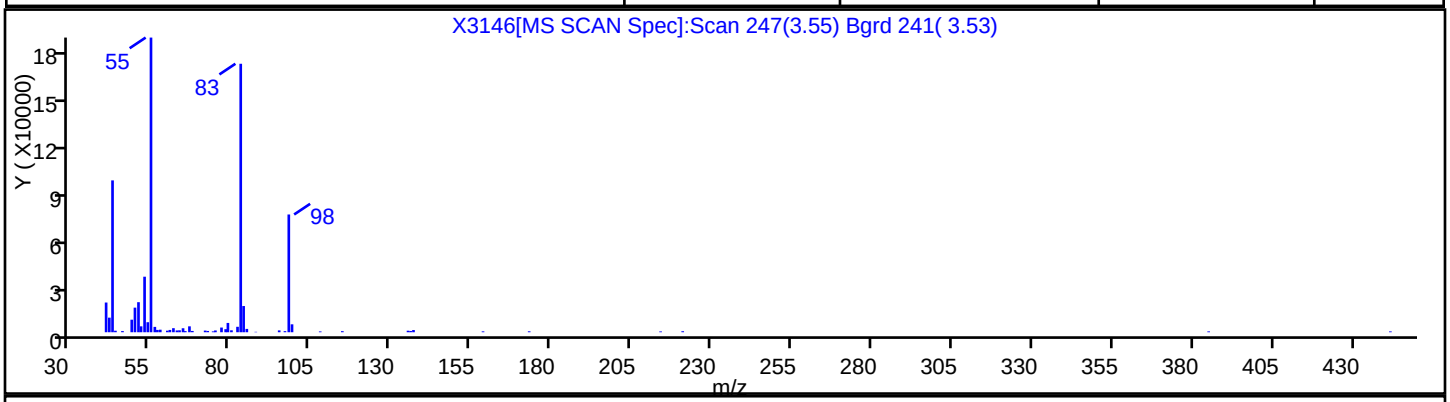
Reviewer: mckernar, 19-Dec-2012 09:03:19
Audit Action: Manually Integrated
Audit Reason: Assign Peak

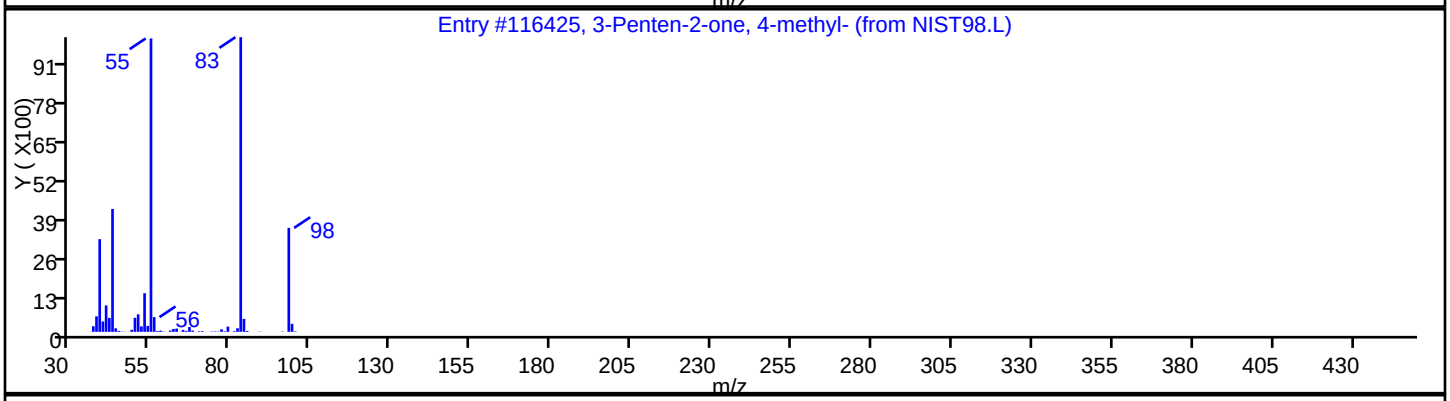
Report Date: 09-Mar-2013 09:11:20 Chrom Revision: 2.0 01-Feb-2013 10:03:10

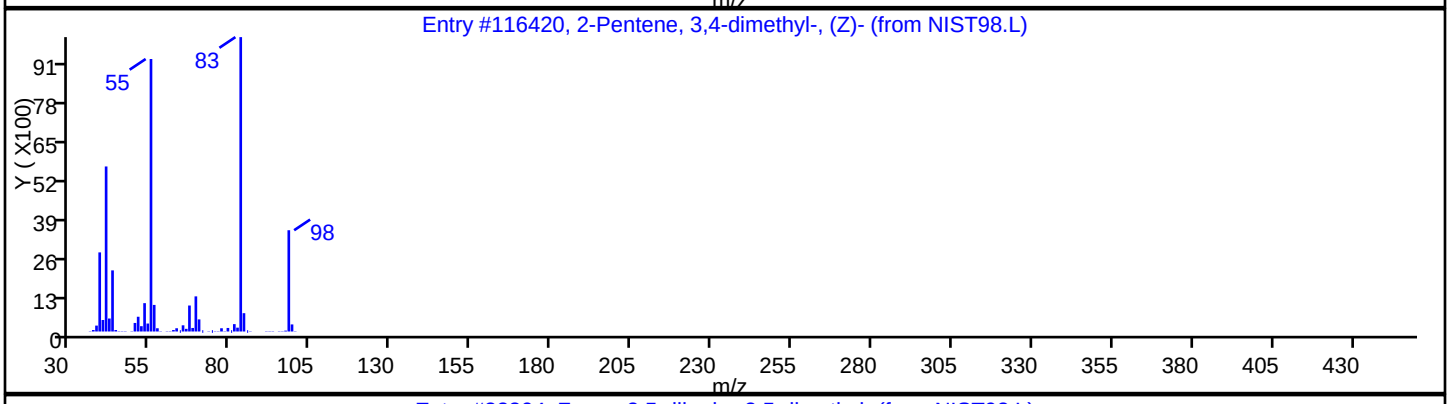
TestAmerica Buffalo

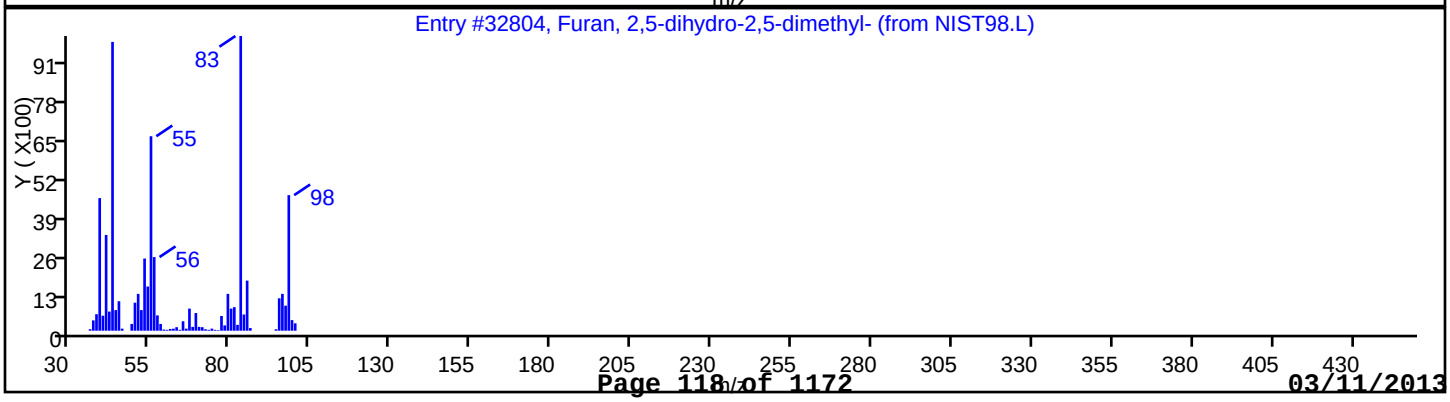
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3146.D		
Injection Date:	18-Dec-2012 18:35:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-526-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	17
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
3-Penten-2-one, 4-methyl-	141-79-7	NIST98.L	116425	86
2-Pentene, 3,4-dimethyl-, (Z)-	4914-91-4	NIST98.L	116420	86
Furan, 2,5-dihydro-2,5-dimethyl-	59242-27-2	NIST98.L	32804	80







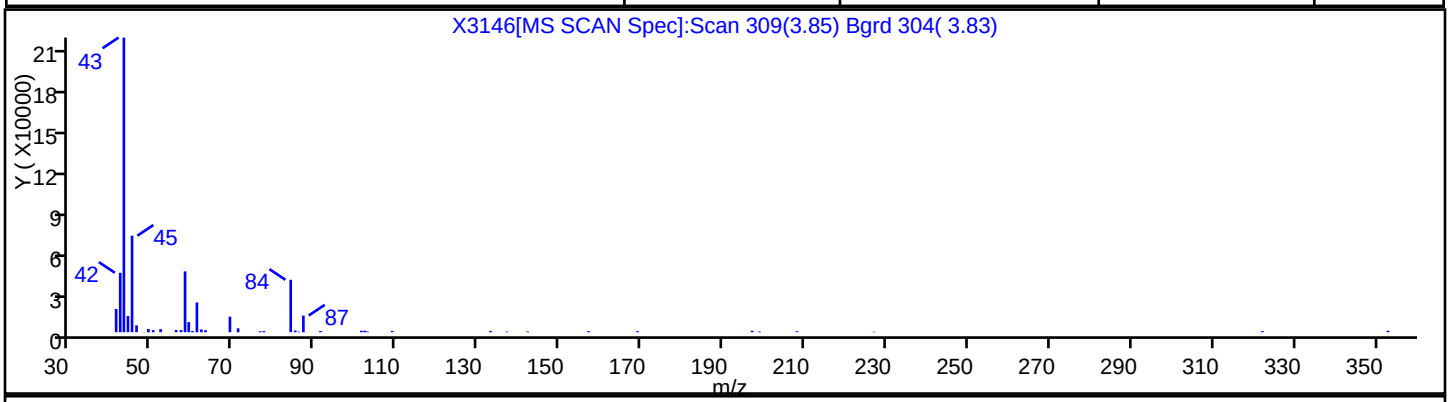


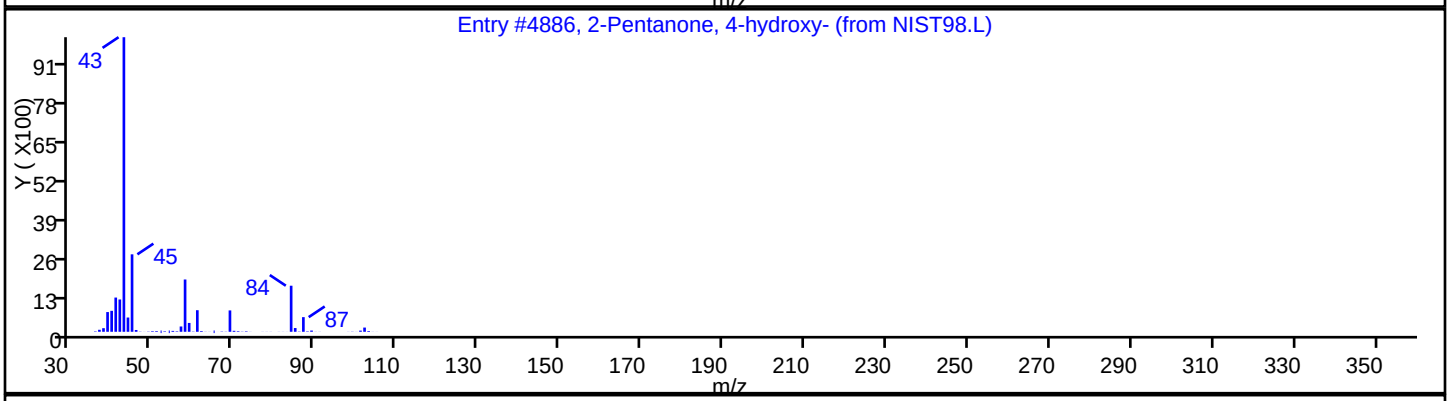
Report Date: 09-Mar-2013 09:11:20 Chrom Revision: 2.0 01-Feb-2013 10:03:10

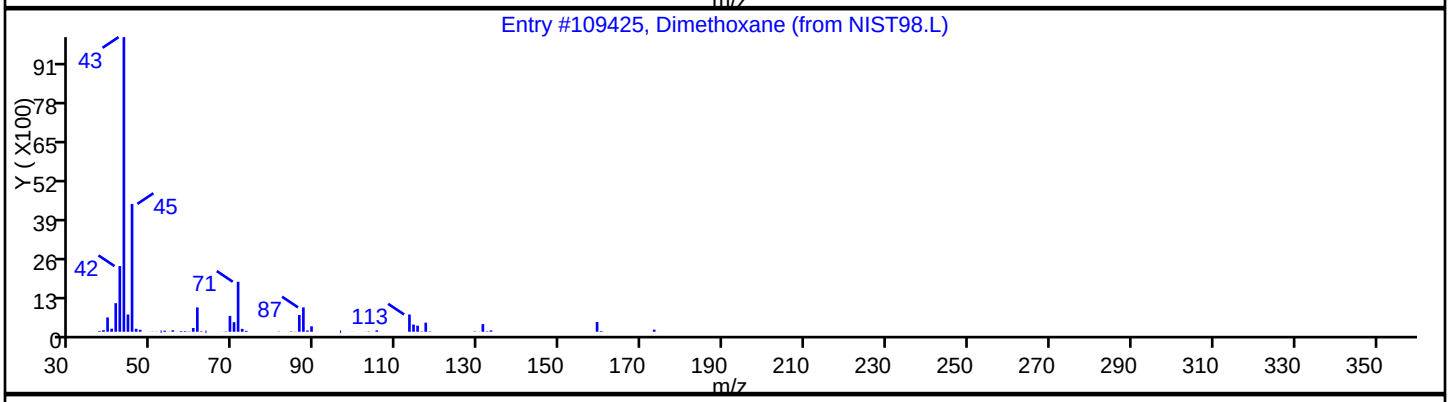
TestAmerica Buffalo

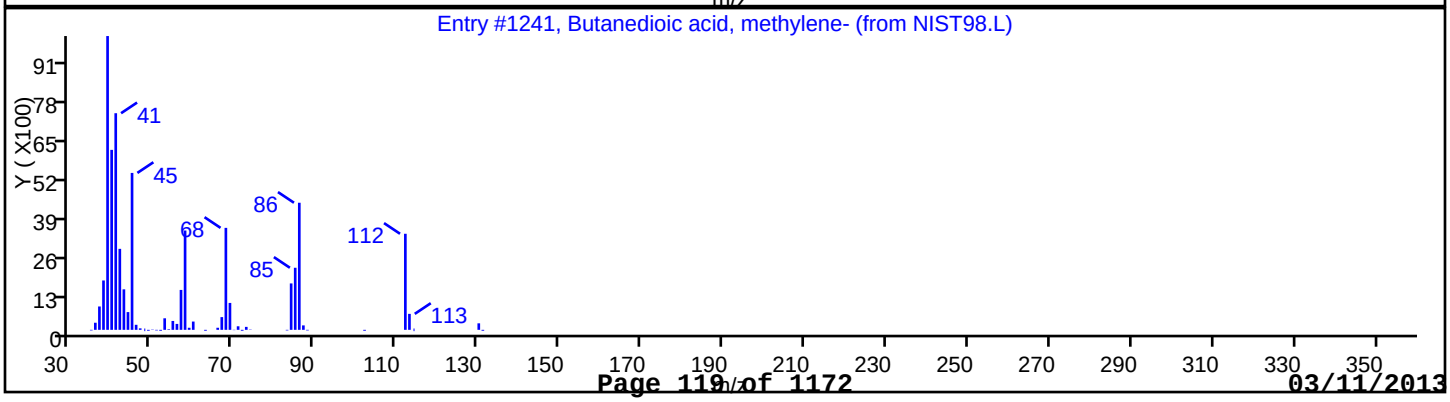
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3146.D		
Injection Date:	18-Dec-2012 18:35:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-526-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	17
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
2-Pentanone, 4-hydroxy-	4161-60-8	NIST98.L	4886	72
Dimethoxane	828-0-2	NIST98.L	109425	40
Butanedioic acid, methylene-	97-65-4	NIST98.L	1241	28







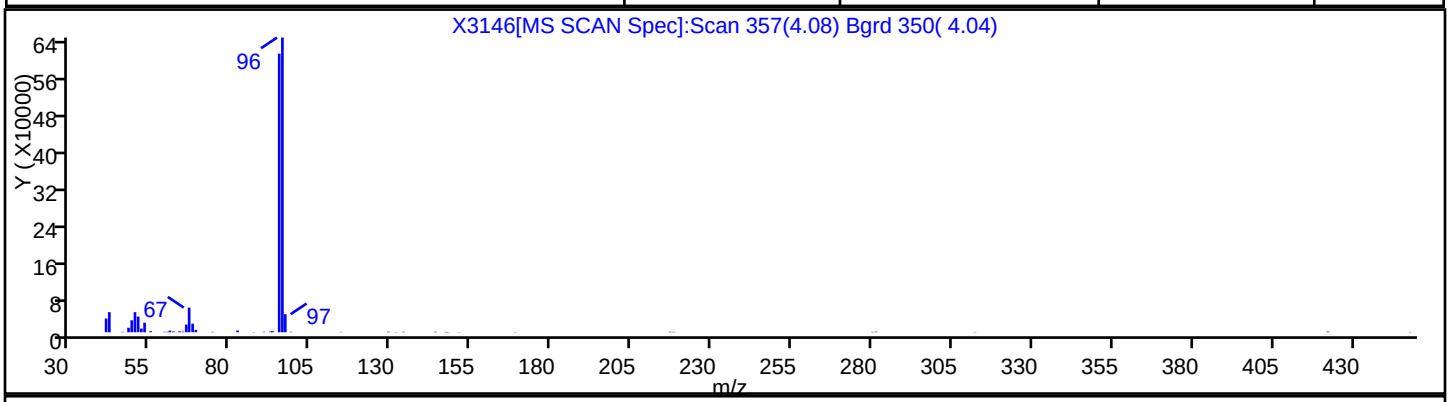


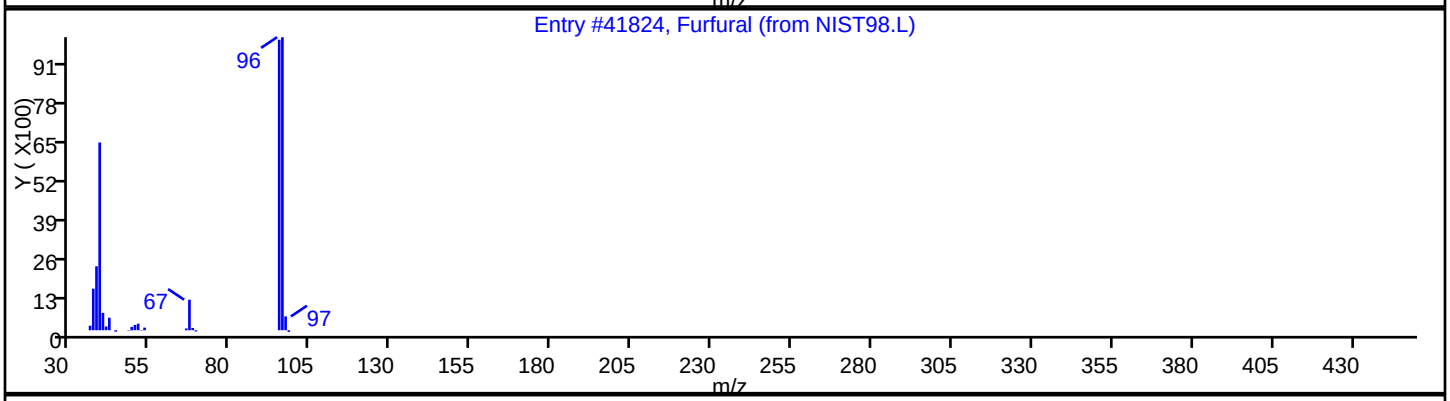
Report Date: 09-Mar-2013 09:11:20 Chrom Revision: 2.0 01-Feb-2013 10:03:10

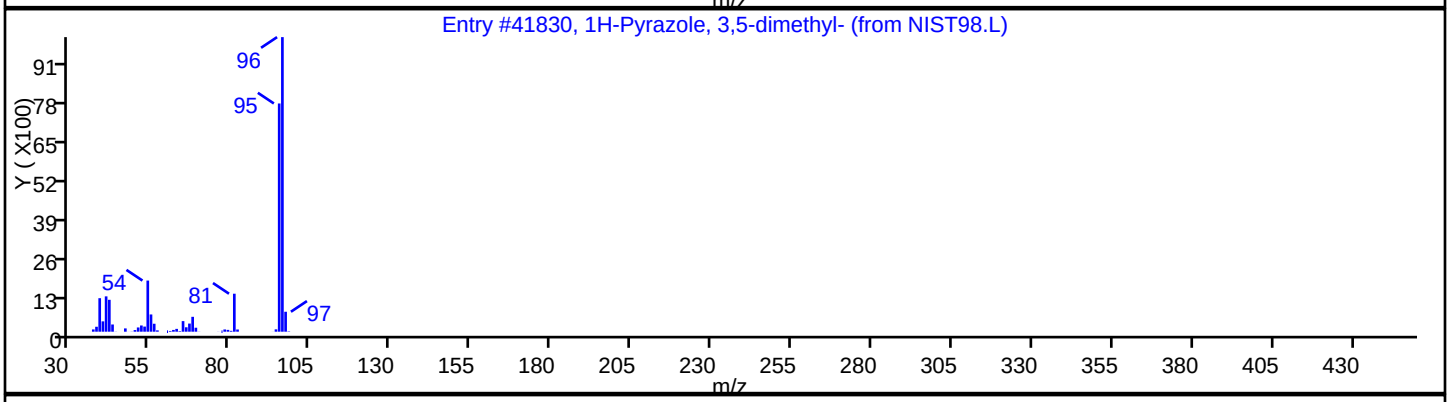
TestAmerica Buffalo

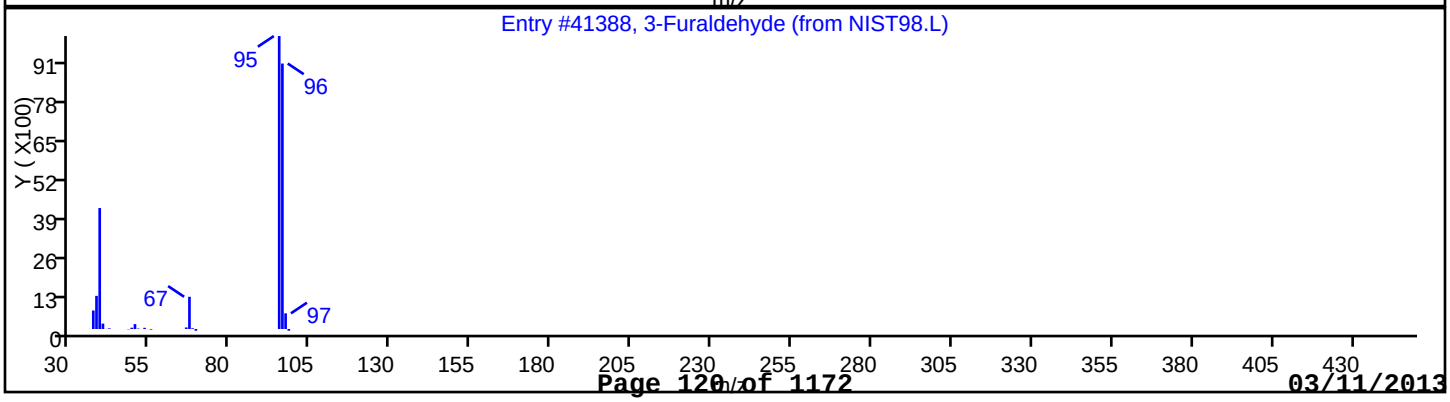
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3146.D		
Injection Date:	18-Dec-2012 18:35:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-526-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	17
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Furfural	98-1-1	NIST98.L	41824	91
1H-Pyrazole, 3,5-dimethyl-	67-51-6	NIST98.L	41830	80
3-Furaldehyde	498-60-2	NIST98.L	41388	64







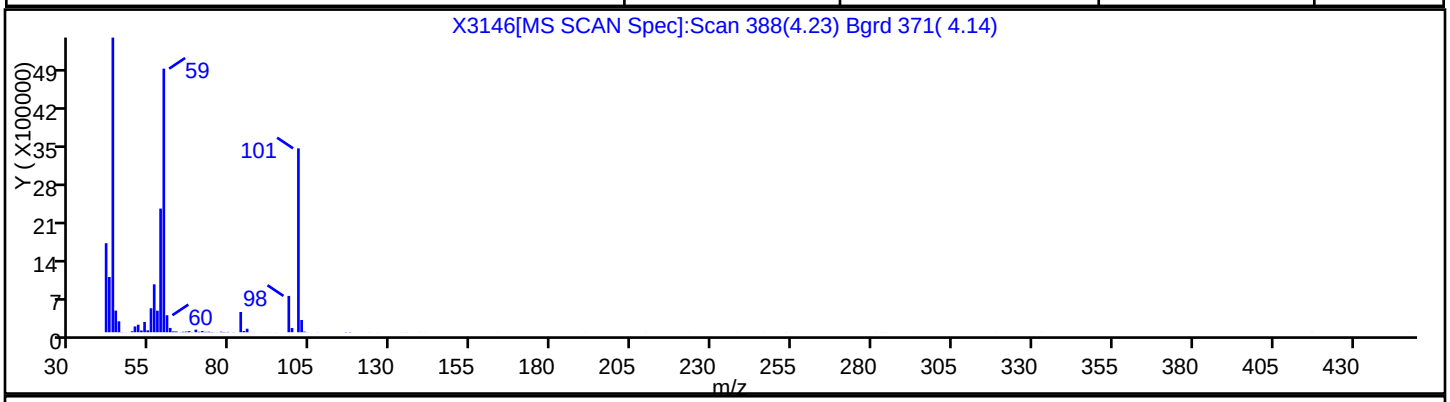


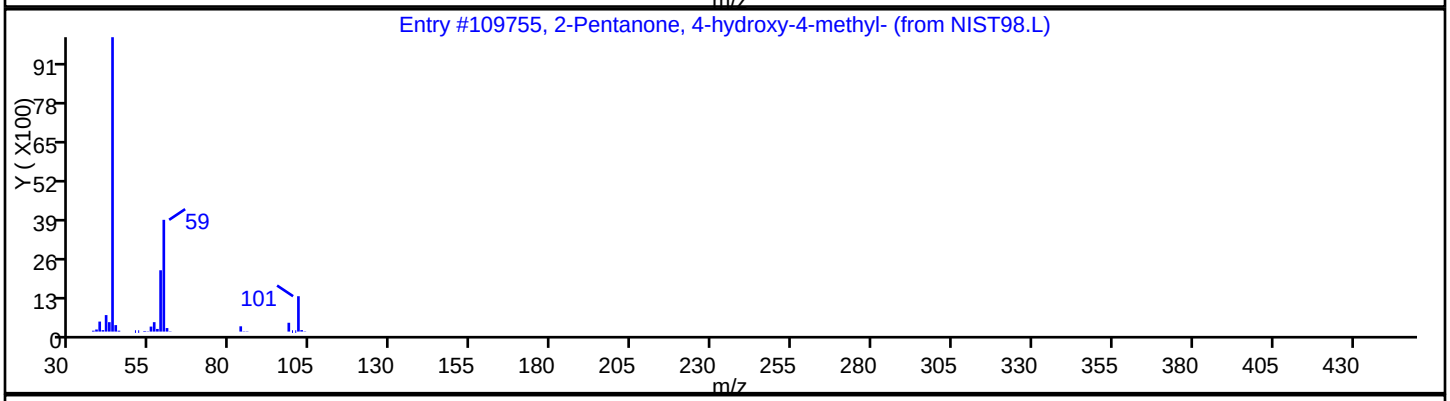
Report Date: 09-Mar-2013 09:11:20 Chrom Revision: 2.0 01-Feb-2013 10:03:10

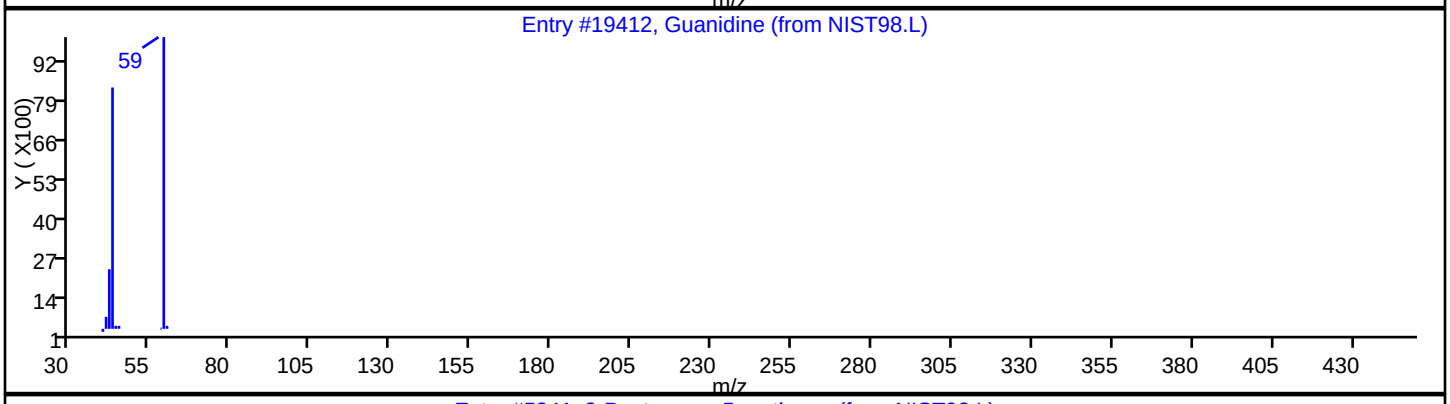
TestAmerica Buffalo

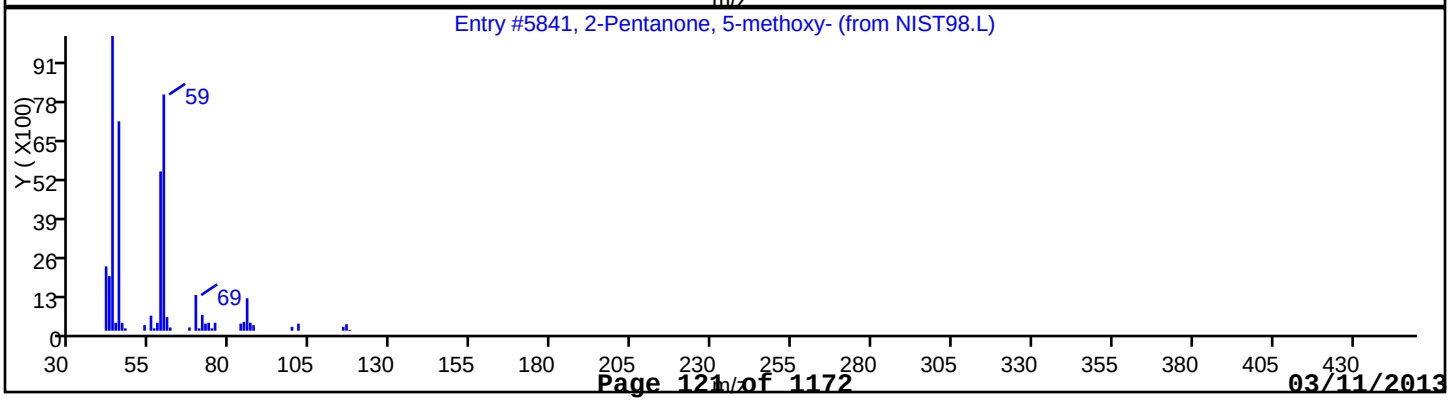
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3146.D		
Injection Date:	18-Dec-2012 18:35:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-526-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	17
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST98.L	109755	43
Guanidine	113-0-8	NIST98.L	19412	38
2-Pentanone, 5-methoxy-	17429-4-8	NIST98.L	5841	36







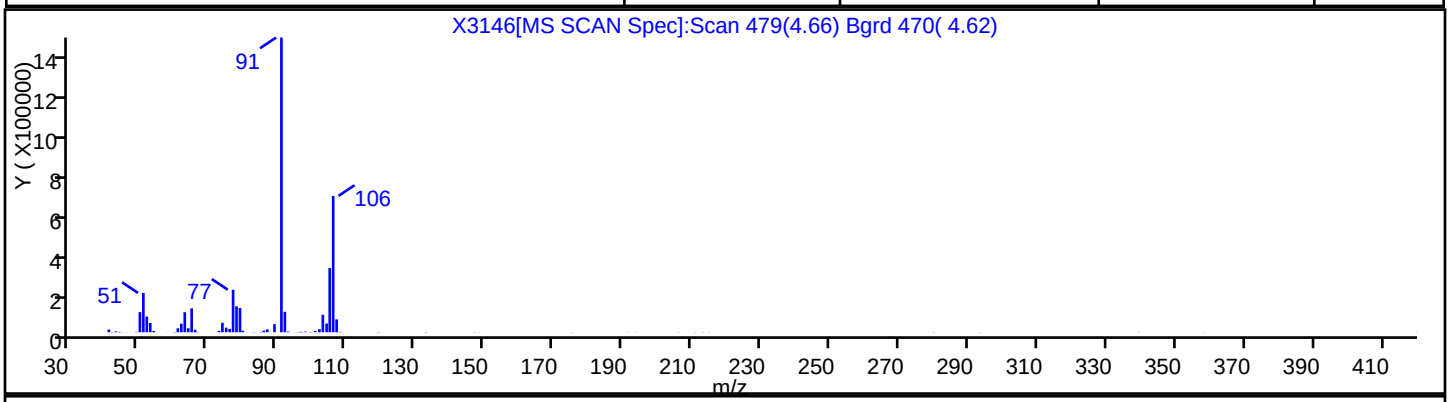


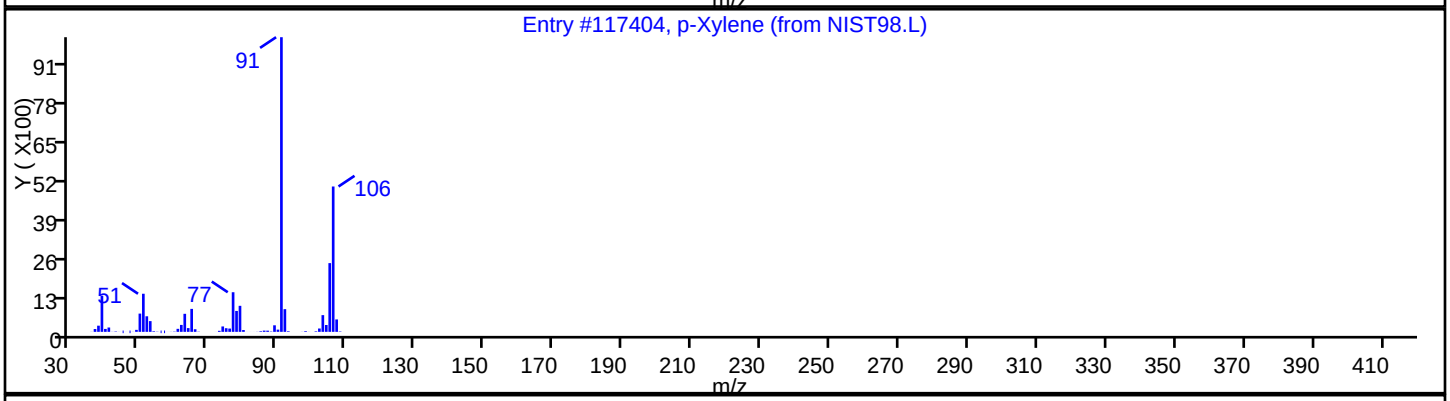
Report Date: 09-Mar-2013 09:11:20 Chrom Revision: 2.0 01-Feb-2013 10:03:10

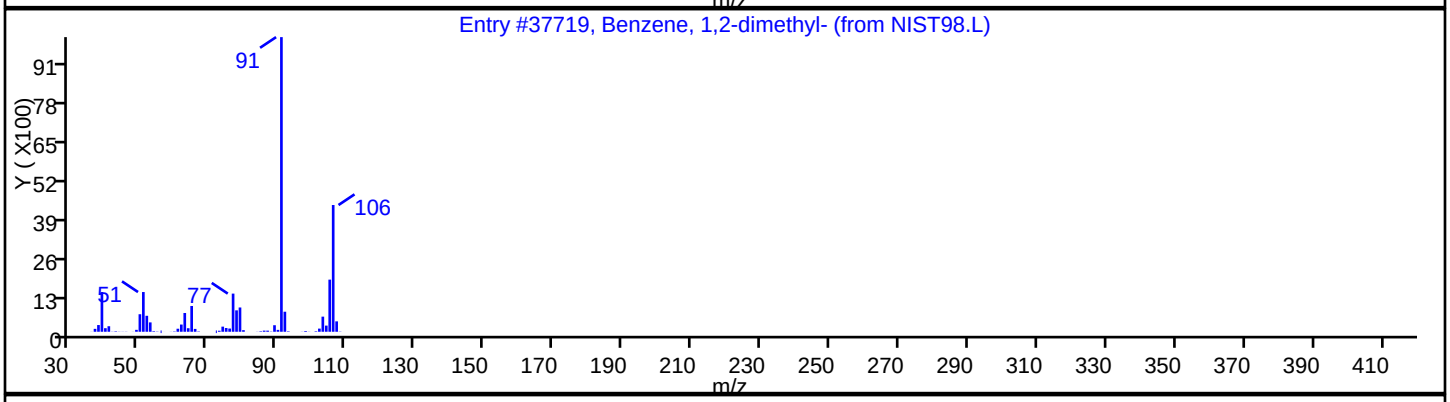
TestAmerica Buffalo

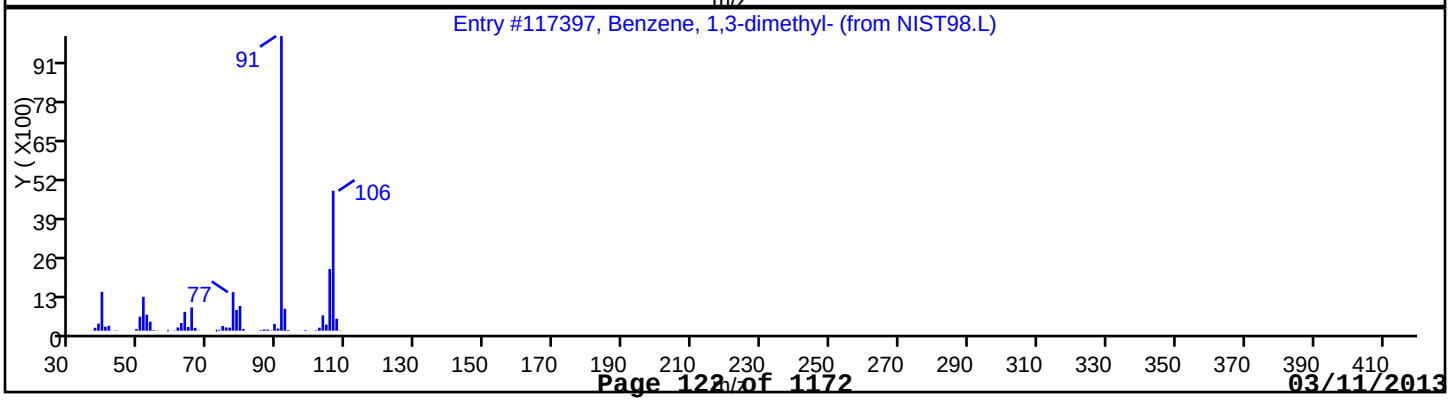
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3146.D		
Injection Date:	18-Dec-2012 18:35:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-526-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	17
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
p-Xylene	106-42-3	NIST98.L	117404	97
Benzene, 1,2-dimethyl-	95-47-6	NIST98.L	37719	97
Benzene, 1,3-dimethyl-	108-38-3	NIST98.L	117397	97







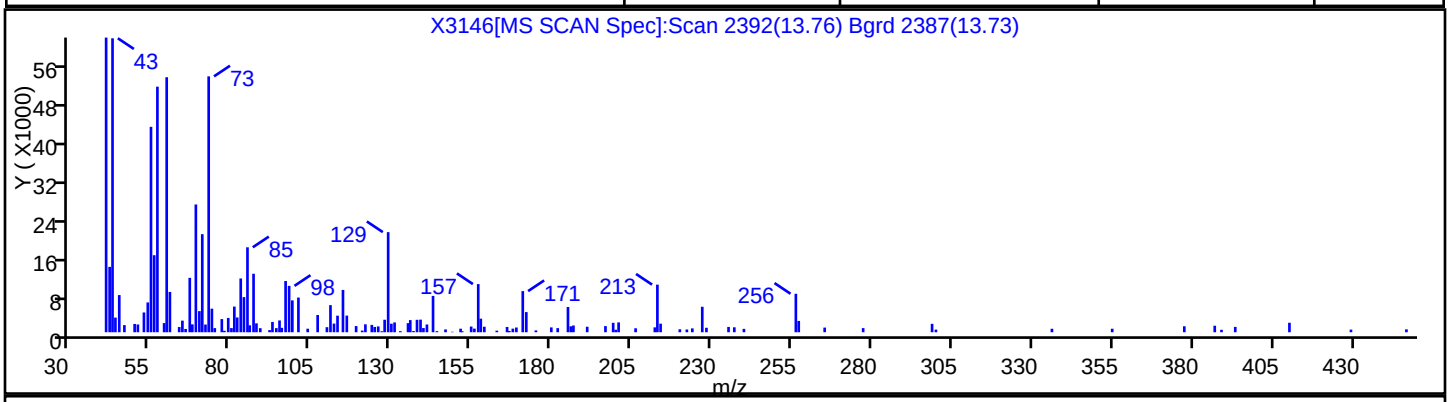


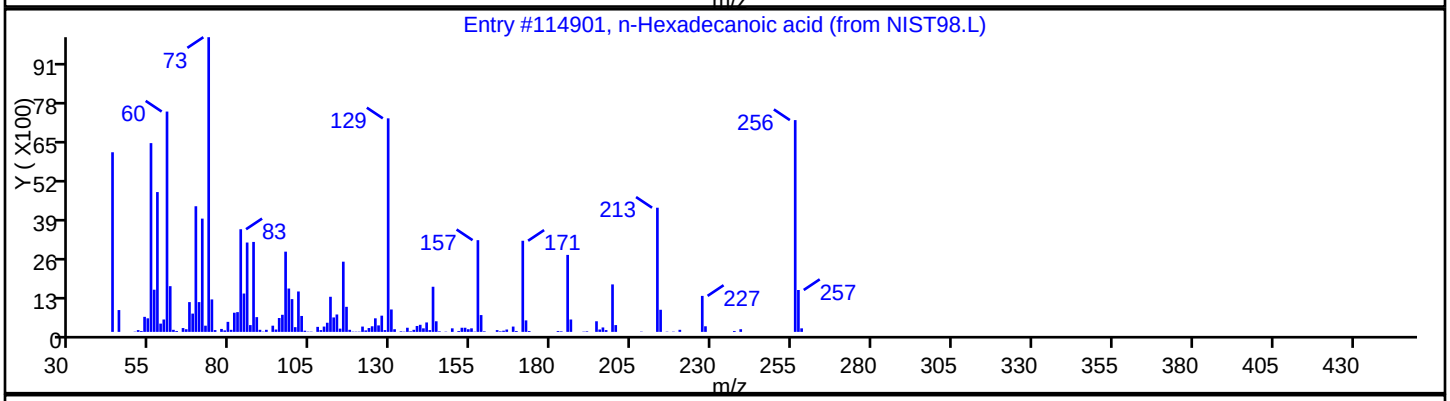
Report Date: 09-Mar-2013 09:11:20 Chrom Revision: 2.0 01-Feb-2013 10:03:10

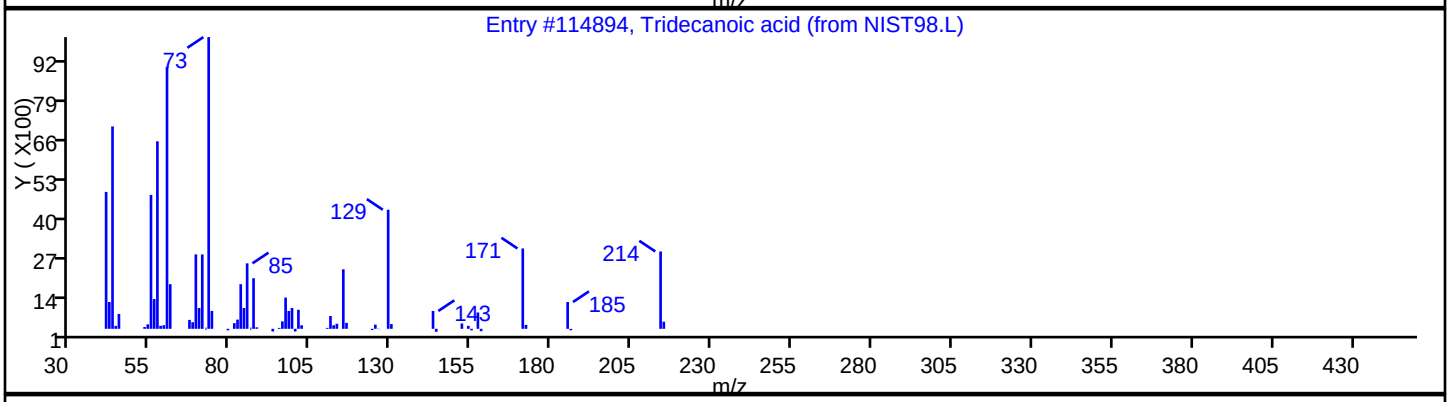
TestAmerica Buffalo

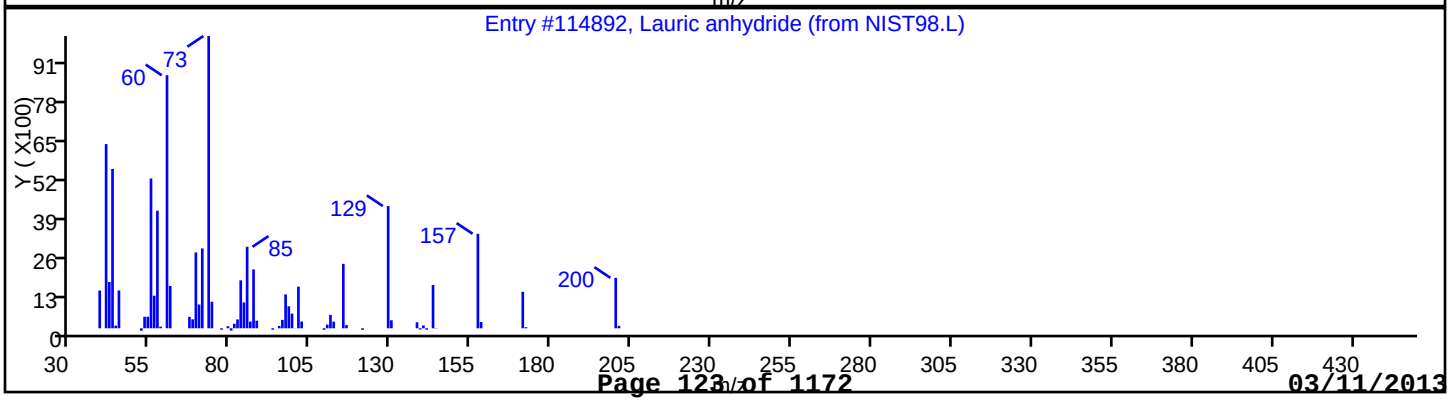
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3146.D		
Injection Date:	18-Dec-2012 18:35:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-526-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	17
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
n-Hexadecanoic acid	57-10-3	NIST98.L	114901	95
Tridecanoic acid	638-53-9	NIST98.L	114894	81
Lauric anhydride	645-66-9	NIST98.L	114892	80







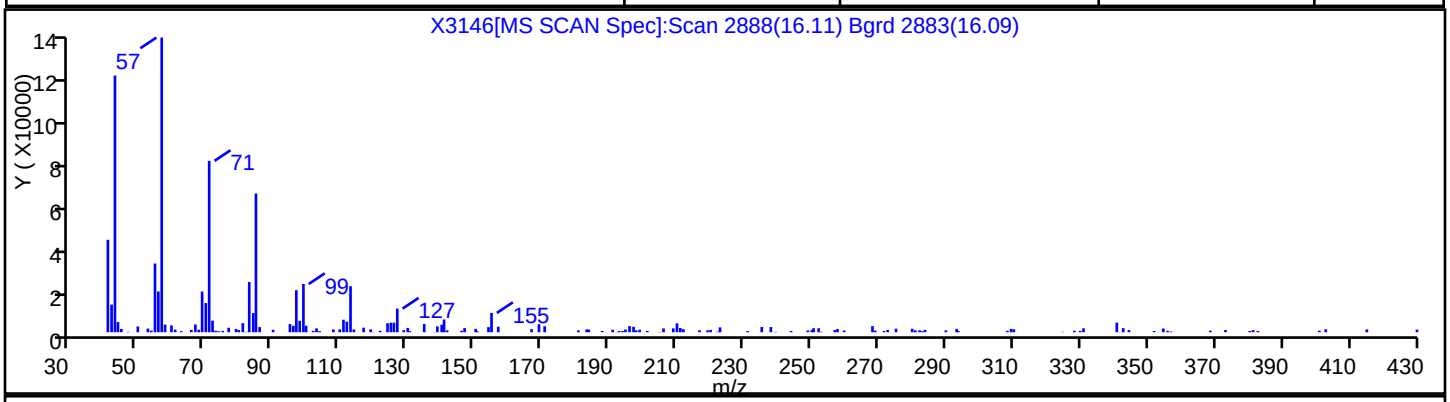


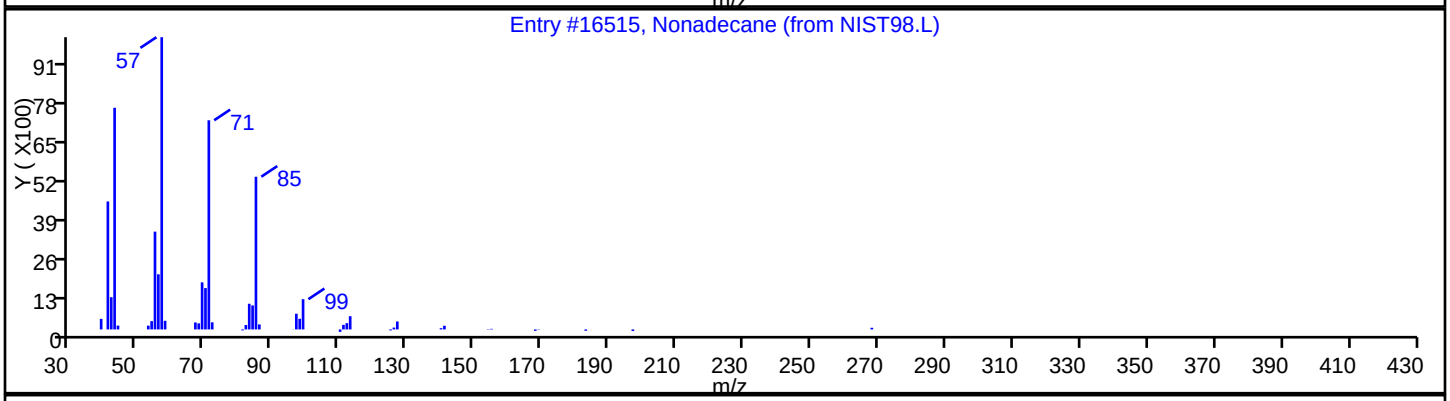
Report Date: 09-Mar-2013 09:11:20 Chrom Revision: 2.0 01-Feb-2013 10:03:10

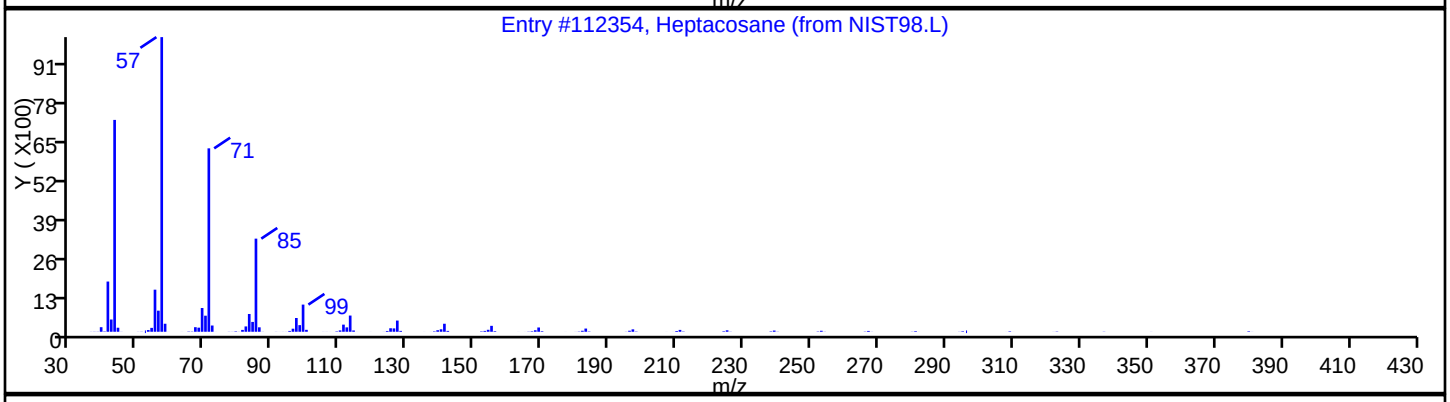
TestAmerica Buffalo

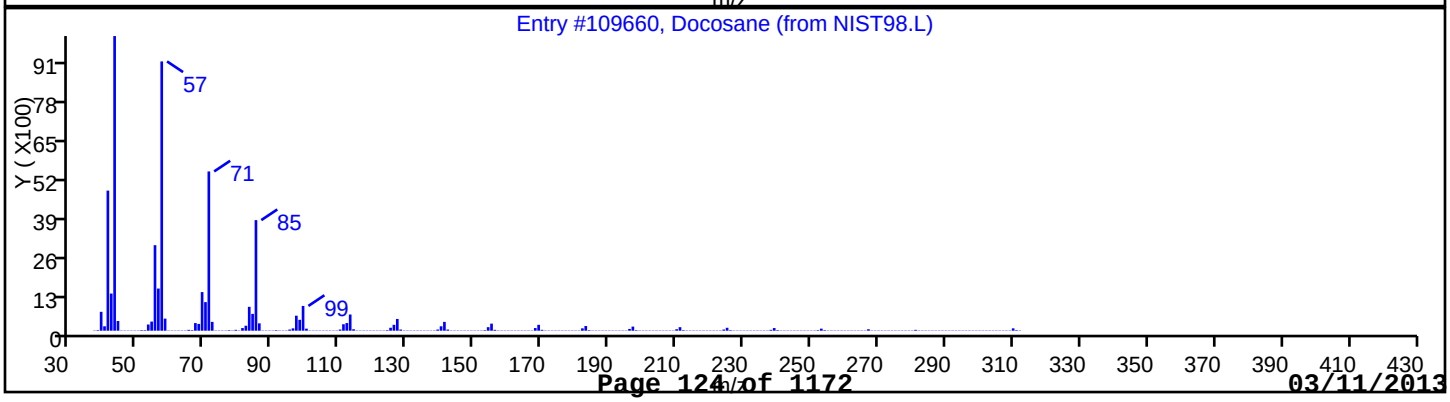
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3146.D		
Injection Date:	18-Dec-2012 18:35:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-526-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	17
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Nonadecane	629-92-5	NIST98.L	16515	95
Heptacosane	593-49-7	NIST98.L	112354	95
Docosane	629-97-0	NIST98.L	109660	93







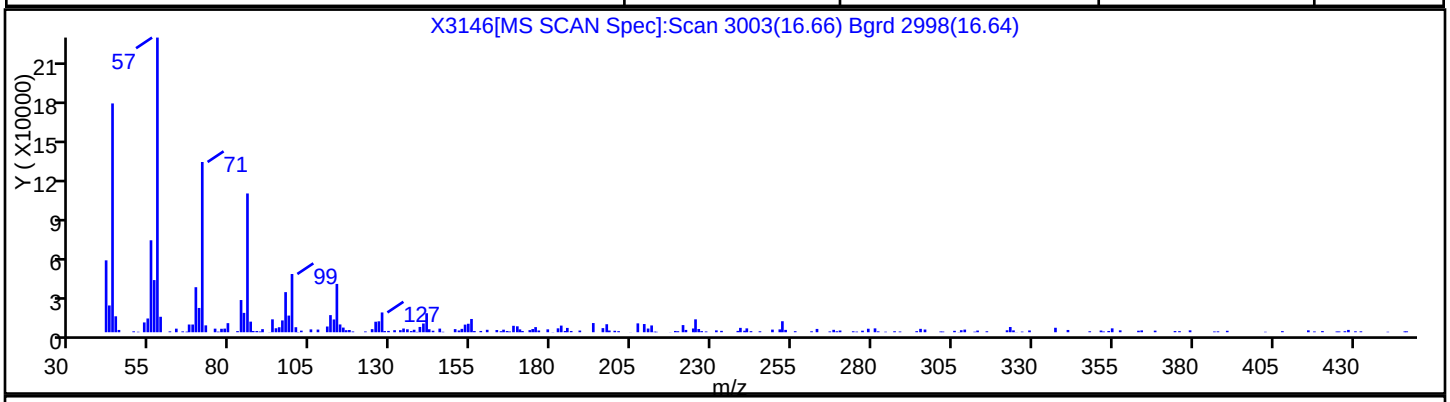


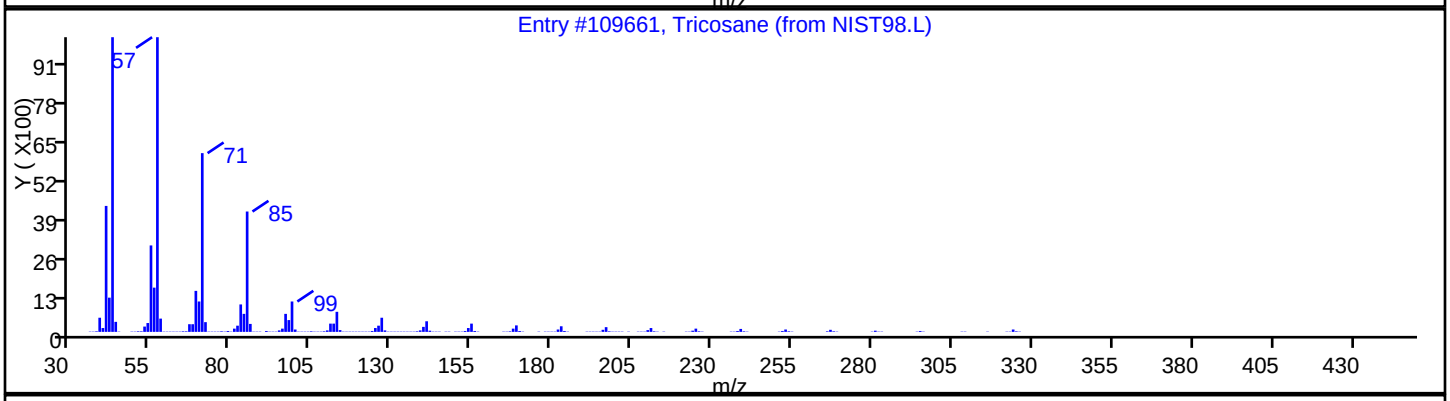
Report Date: 09-Mar-2013 09:11:20 Chrom Revision: 2.0 01-Feb-2013 10:03:10

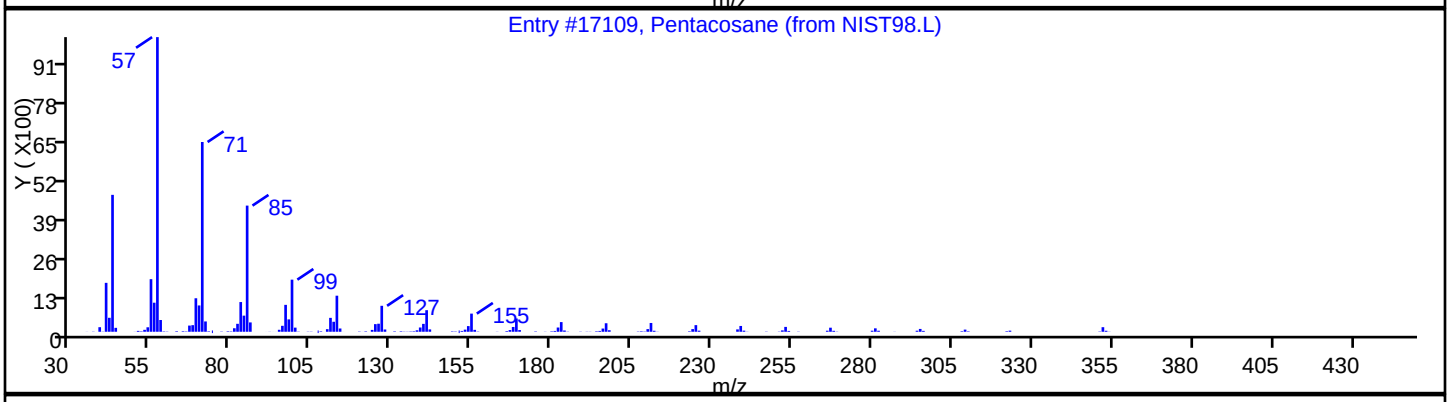
TestAmerica Buffalo

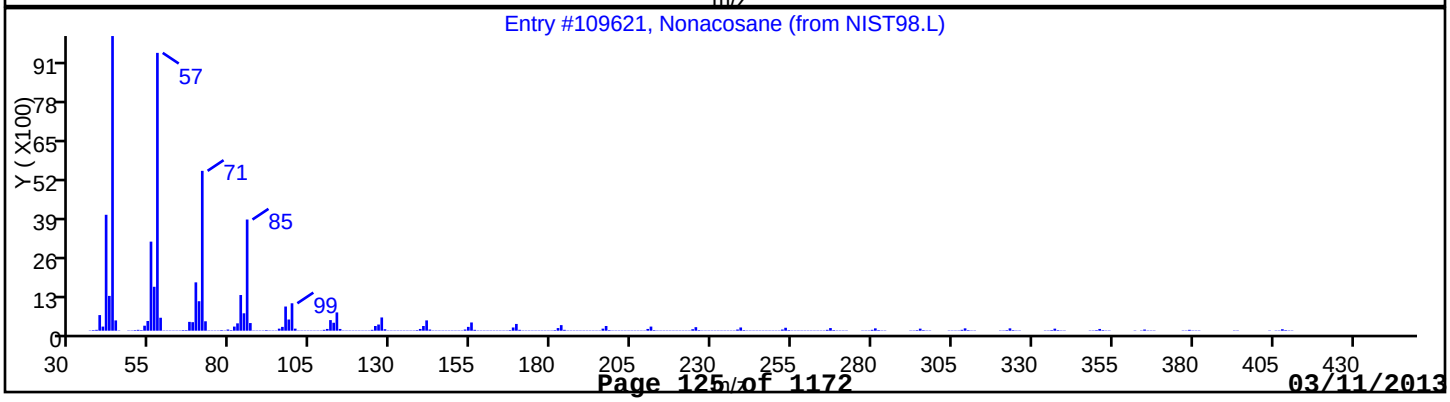
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3146.D		
Injection Date:	18-Dec-2012 18:35:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-526-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	17
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Tricosane	638-67-5	NIST98.L	109661	94
Pentacosane	629-99-2	NIST98.L	17109	93
Nonacosane	630-3-5	NIST98.L	109621	92







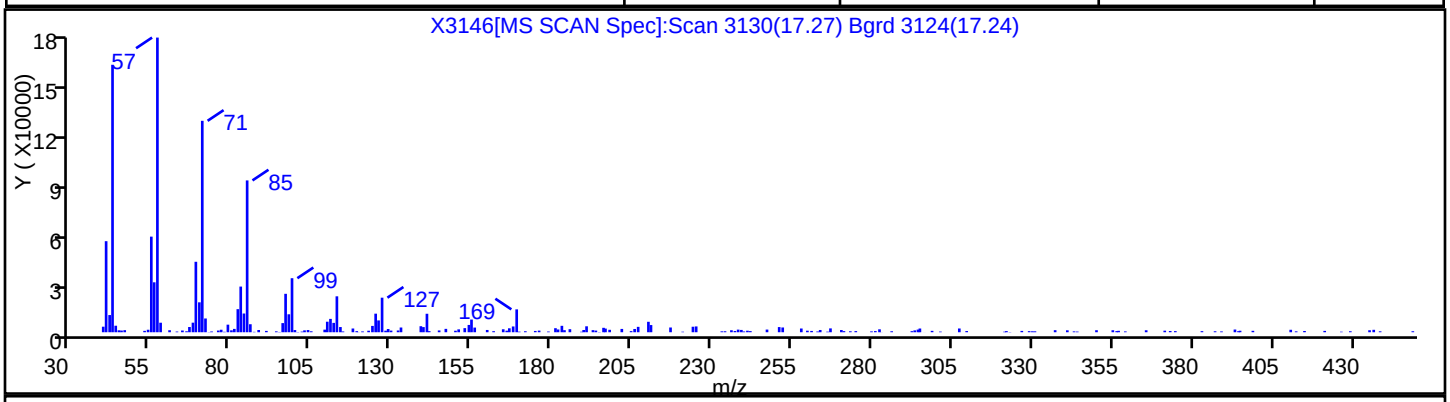


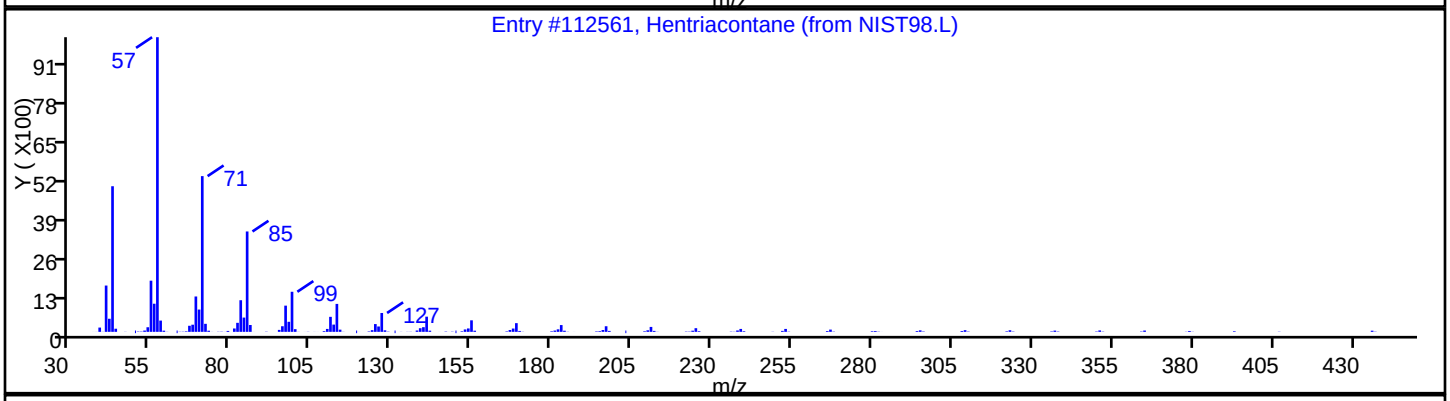
Report Date: 09-Mar-2013 09:11:20 Chrom Revision: 2.0 01-Feb-2013 10:03:10

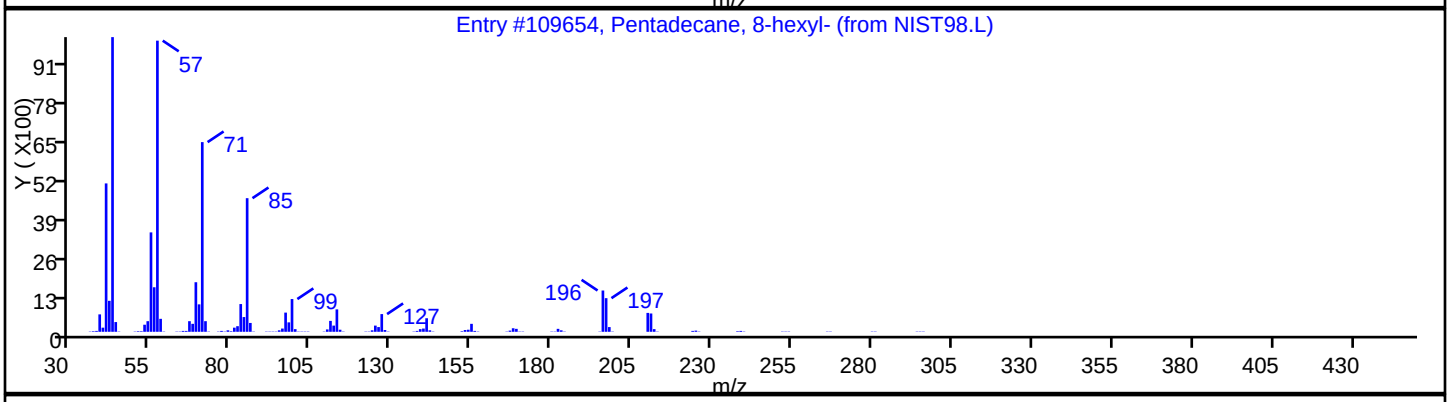
TestAmerica Buffalo

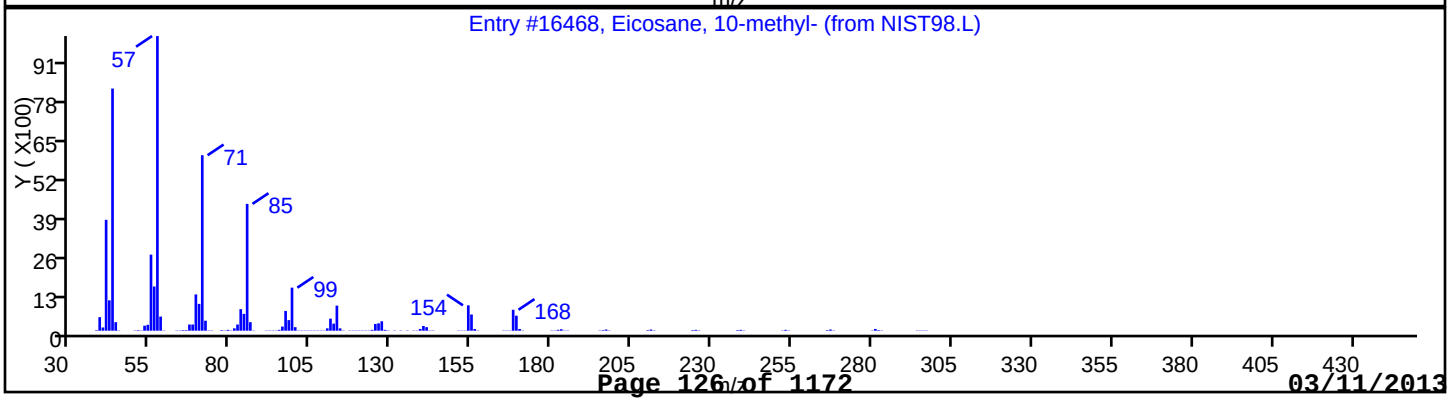
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3146.D		
Injection Date:	18-Dec-2012 18:35:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-526-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	17
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Hentriacontane	630-4-6	NIST98.L	112561	93
Pentadecane, 8-hexyl-	13475-75-7	NIST98.L	109654	93
Eicosane, 10-methyl-	54833-23-7	NIST98.L	16468	91







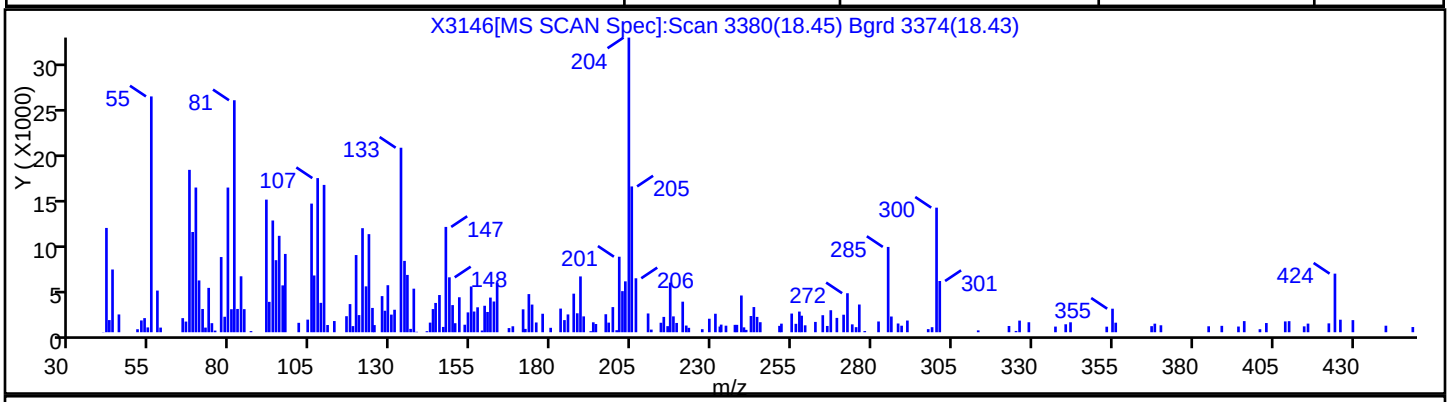


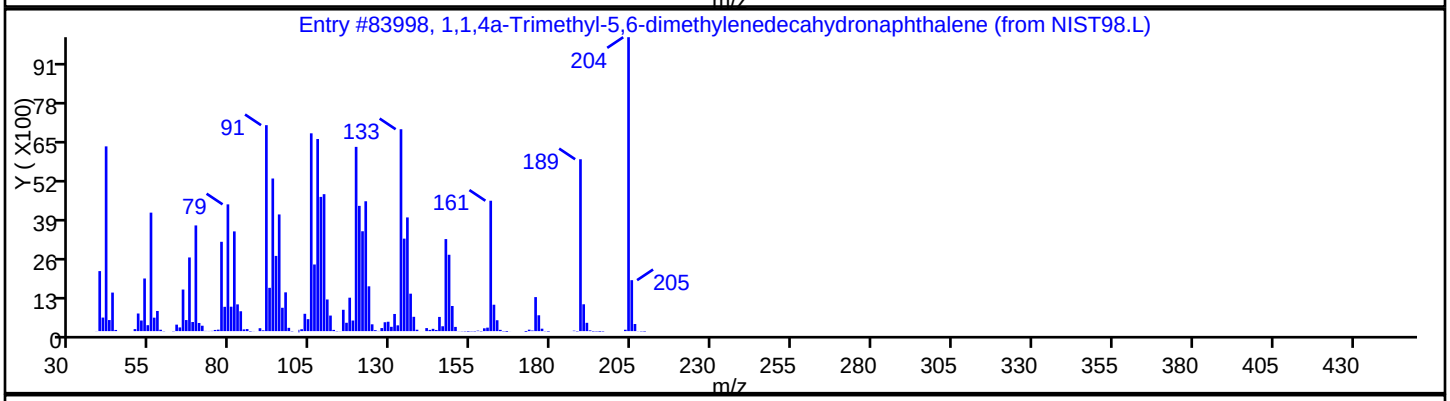
Report Date: 09-Mar-2013 09:11:20 Chrom Revision: 2.0 01-Feb-2013 10:03:10

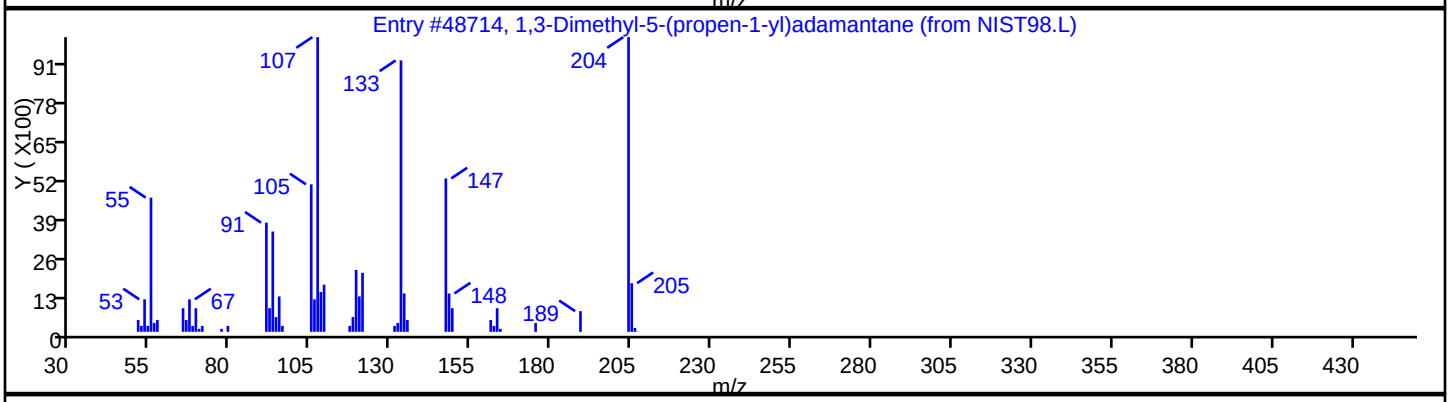
TestAmerica Buffalo

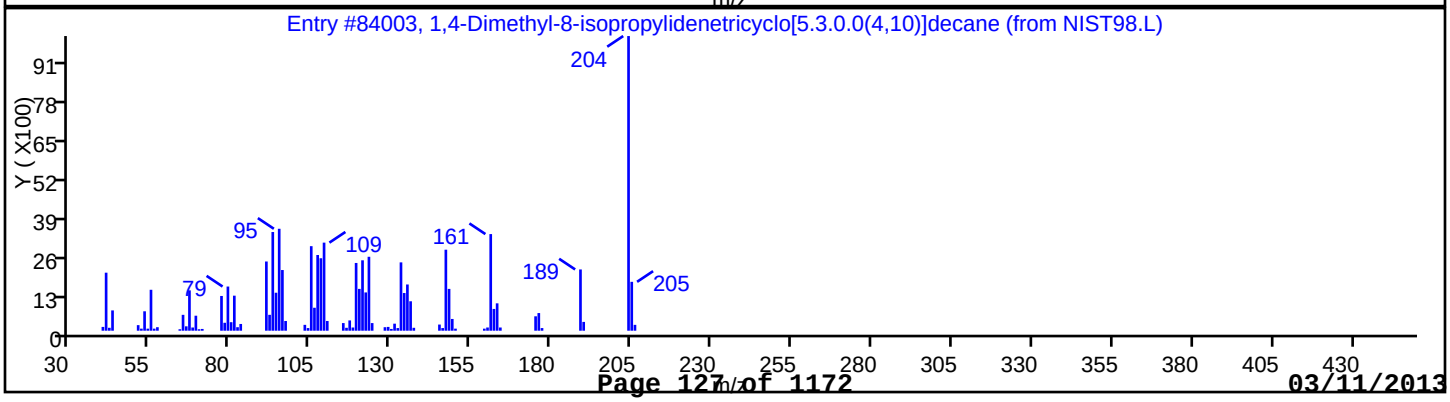
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3146.D		
Injection Date:	18-Dec-2012 18:35:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-526-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	17
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
1,1,4a-Trimethyl-5,6-dimethylenedecahydr	1000193-60-8	NIST98.L	83998	41
1,3-Dimethyl-5-(propen-1-yl)adamantane	1000214-99-1	NIST98.L	48714	35
1,4-Dimethyl-8-isopropylidenetricyclo[5.	1000140-7-7	NIST98.L	84003	30









FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-29598-1

SDG No.:

Client Sample ID: OC-SB-526-1.0/3.0-XXX | Lab Sample ID: 480-29598-4

Matrix: Solid | Lab File ID: X3147.D

Analysis Method: 8270D | Date Collected: 12/05/2012 10:45

Extract. Method: 3546 | Date Extracted: 12/11/2012 08:51

Sample wt/vol: 000030.5(g) | Date Analyzed: 12/18/2012 19:00

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

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

% Moisture: 25.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 96347 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	ND		44	13
95-50-1	1,2-Dichlorobenzene	ND		44	13
541-73-1	1,3-Dichlorobenzene	ND		44	13
100-52-7	Benzaldehyde	ND		44	13
106-46-7	1,4-Dichlorobenzene	ND		44	13
108-60-1	2,2'-oxybis[1-chloropropane]	ND		44	13
95-95-4	2,4,5-Trichlorophenol	ND		44	14
88-06-2	2,4,6-Trichlorophenol	ND		44	18
100-51-6	Benzyl alcohol	ND		88	13
120-83-2	2,4-Dichlorophenol	ND		44	13
105-67-9	2,4-Dimethylphenol	ND		44	13
51-28-5	2,4-Dinitrophenol	ND	*	44	35
121-14-2	2,4-Dinitrotoluene	ND		44	13
100-01-6	4-Nitroaniline	ND		220	37
606-20-2	2,6-Dinitrotoluene	ND		44	37
91-58-7	2-Chloronaphthalene	ND	*	44	13
95-57-8	2-Chlorophenol	ND		44	13
86-30-6	N-Nitrosodiphenylamine	ND		44	13
91-57-6	2-Methylnaphthalene	ND		44	13
95-48-7	2-Methylphenol	ND		44	13
88-75-5	2-Nitrophenol	ND		44	17
15831-10-4	3 & 4 Methylphenol	ND		44	13
91-94-1	3,3'-Dichlorobenzidine	ND		88	16
88-74-4	2-Nitroaniline	ND		220	55
101-55-3	4-Bromophenyl phenyl ether	ND		44	13
77-47-4	Hexachlorocyclopentadiene	ND		88	13
106-47-8	4-Chloroaniline	ND		88	39
100-02-7	4-Nitrophenol	ND	*	220	18
83-32-9	Acenaphthene	ND		44	13
534-52-1	4,6-Dinitro-2-methylphenol	ND		220	42
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		44	13
208-96-8	Acenaphthylene	ND		44	13
98-86-2	Acetophenone	ND		44	13
62-53-3	Aniline	ND		44	13

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-29598-1

SDG No.:

Client Sample ID: OC-SB-526-1.0/3.0-XXX | Lab Sample ID: 480-29598-4

Matrix: Solid | Lab File ID: X3147.D

Analysis Method: 8270D | Date Collected: 12/05/2012 10:45

Extract. Method: 3546 | Date Extracted: 12/11/2012 08:51

Sample wt/vol: 000030.5(g) | Date Analyzed: 12/18/2012 19:00

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

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

% Moisture: 25.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 96347 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-12-7	Anthracene	ND		44	13
1912-24-9	Atrazine	ND		44	13
103-33-3	Azobenzene	ND		44	13
56-55-3	Benzo[a]anthracene	ND		44	13
50-32-8	Benzo[a]pyrene	ND		44	13
205-99-2	Benzo[b]fluoranthene	ND		44	13
191-24-2	Benzo[g,h,i]perylene	ND		44	13
105-60-2	Caprolactam	ND		44	13
99-09-2	3-Nitroaniline	ND		220	13
207-08-9	Benzo[k]fluoranthene	ND		44	22
111-91-1	Bis(2-chloroethoxy)methane	ND		44	13
92-52-4	1,1'-Biphenyl	ND		44	13
111-44-4	Bis(2-chloroethyl)ether	ND		44	13
117-81-7	Bis(2-ethylhexyl) phthalate	ND		220	88
85-68-7	Butyl benzyl phthalate	ND		44	13
218-01-9	Chrysene	ND		44	13
621-64-7	N-Nitrosodi-n-propylamine	ND		44	13
65-85-0	Benzoic acid	ND		220	20
53-70-3	Dibenz(a,h)anthracene	ND		44	13
132-64-9	Dibenzofuran	ND		44	13
84-66-2	Diethyl phthalate	ND		44	14
131-11-3	Dimethyl phthalate	ND		44	13
84-74-2	Di-n-butyl phthalate	ND		220	66
117-84-0	Di-n-octyl phthalate	ND		44	13
101-84-8	Phenyl ether	ND		44	13
58-90-2	2,3,4,6-Tetrachlorophenol	ND		44	13
206-44-0	Fluoranthene	ND		44	13
59-50-7	4-Chloro-3-methylphenol	ND		88	13
86-73-7	Fluorene	ND		44	13
7005-72-3	4-Chlorophenyl phenyl ether	ND		44	13
118-74-1	Hexachlorobenzene	ND		44	13
87-68-3	Hexachlorobutadiene	ND		44	13
67-72-1	Hexachloroethane	ND		44	13
193-39-5	Indeno[1,2,3-cd]pyrene	ND	*	44	13

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-29598-1

SDG No.:

Client Sample ID: OC-SB-526-1.0/3.0-XXX | Lab Sample ID: 480-29598-4

Matrix: Solid | Lab File ID: X3147.D

Analysis Method: 8270D | Date Collected: 12/05/2012 10:45

Extract. Method: 3546 | Date Extracted: 12/11/2012 08:51

Sample wt/vol: 000030.5(g) | Date Analyzed: 12/18/2012 19:00

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

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

% Moisture: 25.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 96347 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
78-59-1	Isophorone	ND		44	13
91-20-3	Naphthalene	ND		44	13
98-95-3	Nitrobenzene	ND		44	13
87-86-5	Pentachlorophenol	ND		44	13
85-01-8	Phenanthrene	ND		44	13
119-61-9	Benzophenone	ND		44	13
108-95-2	Phenol	ND		44	13
129-00-0	Pyrene	ND		44	13
62-75-9	N-Nitrosodimethylamine	ND		44	13
86-74-8	Carbazole	ND		44	13
90-12-0	1-Methylnaphthalene	ND		44	13
106-44-5	4-Methylphenol	ND		44	13

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	62		30-130
367-12-4	2-Fluorophenol	53		30-130
4165-60-0	Nitrobenzene-d5	51		30-130
4165-62-2	Phenol-d5	54		30-130
321-60-8	2-Fluorobiphenyl	66		30-130
1718-51-0	p-Terphenyl-d14	67		30-130

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

Lab Name: TestAmerica Buffalo | Job No.: 480-29598-1

SDG No.:

Client Sample ID: OC-SB-526-1.0/3.0-XXX | Lab Sample ID: 480-29598-4

Matrix: Solid | Lab File ID: X3147.D

Analysis Method: 8270D | Date Collected: 12/05/2012 10:45

Extract. Method: 3546 | Date Extracted: 12/11/2012 08:51

Sample wt/vol: 000030.5(g) | Date Analyzed: 12/18/2012 19:00

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

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

% Moisture: 25.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 96347 | Units: ug/Kg

Number TICs Found: 7 | TIC Result Total: 10406

CAS NO.	COMPOUND NAME	RT	RESULT	Q
4161-60-8	2-Pentanone, 4-hydroxy-	3.82	190	T J N
17429-4-8	2-Pentanone, 5-methoxy-	4.20	9800	T J N
	Unknown	4.21	54	T J
40499-83-0	3-Pyrrolidinol	5.23	37	T J N
111-84-2	Nonane	6.32	22	T J N
89950-0-5	d:a-Friedoursan-3-one	15.28	280	T J N
593-49-7	Heptacosane	16.66	23	T J N

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3147.D		
Lims ID:	480-29598-C-4-B	Client ID:	OC-SB-526-1.0/3.0-XXX
Inject. Date:	18-Dec-2012 19:00:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	480-0017654-018		
Misc. Info.:			
Operator:	ANM	Instrument ID:	HP5973X
Injection Vol:	1.0 ul	ALS Bottle#:	19
Lims Batch ID:	96347	Lims Sample ID:	18
Detector:	MS SCAN		
Method:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X-8270LL.m		
Last Update:	09-Mar-2013 09:11:13	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: 19-Dec-2012 09:08:58

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.537	6.537	0.0	84	225764	5.00	
* 2 Naphthalene-d8	136	8.453	8.425	0.028	98	816686	5.00	
* 3 Acenaphthene-d10	164	11.088	11.035	0.053	88	479955	5.00	
* 4 Phenanthrene-d10	188	13.090	13.052	0.038	96	882663	5.00	
* 5 Chrysene-d12	240	15.729	15.720	0.009	97	746886	5.00	
* 6 Perylene-d12	264	17.004	17.004	0.0	97	744210	5.00	
$ 7 2-Fluorophenol	112	4.653	4.672	-0.019	0	54383	1.06	M
$ 8 Phenol-d5	99	6.094	6.061	0.033	0	67840	1.09	M
$ 9 Nitrobenzene-d5	82	7.397	7.374	0.023	0	62328	1.02	M
$ 10 2-Fluorobiphenyl	172	10.113	10.056	0.057	79	159853	1.33	M
$ 11 2,4,6-Tribromophenol	330	12.272	12.196	0.076	0	20094	1.24	M
$ 12 p-Terphenyl-d14	244	14.754	14.740	0.014	94	193847	1.35	
19 N-Nitrosodimethylamine	42		2.918					
21 Benzaldehyde	77		5.909					
23 Aniline	93		6.071					19
22 Phenol	94		6.080					9
24 Bis(2-chloroethyl)ether	93		6.170					19
25 2-Chlorophenol	128		6.237					
26 1,3-Dichlorobenzene	146		6.451					9
27 1,4-Dichlorobenzene	146		6.565					9
28 Benzyl alcohol	108		6.774					19
29 1,2-Dichlorobenzene	146		6.784					9
31 2-Methylphenol	108		6.965					9
32 2,2'-oxybis[1-chloropropane]	45		6.979					9
33 Acetophenone	105		7.155					
34 N-Nitrosodi-n-propylamine	70		7.164					
35 DFTPP								
36 4-Methylphenol	108		7.212					
37 Hexachloroethane	117		7.274					19
38 Nitrobenzene	77		7.402					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
40 Isophorone	82		7.764					
41 2-Nitrophenol	139		7.873					
43 2,4-Dimethylphenol	107		7.987					9
45 Bis(2-chloroethoxy)methane	93		8.111					
44 Benzoic acid	105		8.168					19
47 2,4-Dichlorophenol	162		8.268					
48 1,2,4-Trichlorobenzene	180		8.348					
49 Naphthalene	128		8.458					
51 4-Chloroaniline	127		8.586					19
52 Hexachlorobutadiene	225		8.653					9
54 Caprolactam	113		9.114					
55 4-Chloro-3-methylphenol	107		9.371					
56 2-Methylnaphthalene	142		9.495					9
57 1-Methylnaphthalene	142		9.637					19
58 Hexachlorocyclopentadiene	237		9.728					
59 1,2,4,5-Tetrachlorobenzene	216		9.747					19
60 2,4,6-Trichlorophenol	196		9.951					
61 2,4,5-Trichlorophenol	196		10.037					
62 1,1'-Biphenyl	154		10.198					19
63 2-Chloronaphthalene	162		10.241					9
64 Phenyl ether	170		10.360					
65 2-Nitroaniline	65		10.417					1
67 Dimethyl phthalate	163		10.693					9
68 2,6-Dinitrotoluene	165		10.783					149
69 Acenaphthylene	152		10.821					
70 3-Nitroaniline	138		11.045					
71 Acenaphthene	153		11.083					9
72 2,4-Dinitrophenol	184		11.211					
73 Dibenzofuran	168		11.349					149
74 2,4-Dinitrotoluene	165		11.387					19
75 4-Nitrophenol	109		11.421					
76 2,3,4,6-Tetrachlorophenol	232		11.563					
78 Diethyl phthalate	149		11.744					
79 Fluorene	166		11.853					9
80 4-Chlorophenyl phenyl ether	204		11.868					
81 4-Nitroaniline	138		11.953					19
82 4,6-Dinitro-2-methylphenol	198		11.982					
83 N-Nitrosodiphenylamine	169		12.048					
16 1,2-Diphenylhydrazine	77		12.086					
85 Azobenzene	77		12.086					
86 Benzophenone	105		12.110					
89 4-Bromophenyl phenyl ether	248		12.519					
91 Hexachlorobenzene	284		12.581					
93 Atrazine	200		12.771					
94 Pentachlorophenol	266		12.852					
97 Phenanthrene	178		13.080					9
98 Anthracene	178		13.142					
99 Carbazole	167		13.351					1
102 Di-n-butyl phthalate	149	13.765	13.741	0.024	36	16260	0.0755	
104 Fluoranthene	202		14.364					9
106 Pyrene	202		14.588					9
108 Butyl benzyl phthalate	149		15.196					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
109 3,3'-Dichlorobenzidine	252		15.691					
110 Bis(2-ethylhexyl) phthalate	149		15.696					9
111 Benzo[a]anthracene	228		15.705					9
112 Chrysene	228		15.743					9
113 Di-n-octyl phthalate	149		16.238					
114 Benzo[b]fluoranthene	252		16.647					
115 Benzo[k]fluoranthene	252		16.666					
116 Benzo[a]pyrene	252		16.951					
117 Indeno[1,2,3-cd]pyrene	276		18.093					
118 Dibenz(a,h)anthracene	278		18.093					
119 Benzo[g,h,i]perylene	276		18.411					
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\20121218-17654.b\X3147.D		
Lims ID:	480-29598-C-4-B	Client ID:	OC-SB-526-1.0/3.0-XXX
Inject. Date:	18-Dec-2012 19:00:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	480-0017654-018		
Misc. Info.:			
Operator:	ANM	Instrument ID:	HP5973X
Injection Vol:	1.0 ul	ALS Bottle#:	19
Lims Batch ID:	96347	Lims Sample ID:	18
Detector:	MS SCAN		
Method:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X-8270LL.m		
Last Update:	09-Mar-2013 09:11:13	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:	10		
Process Host:	XAWRK034		

First Level Reviewer: mckernar Date: 19-Dec-2012 09:08:58

Calibrated Tentative Identified Compound Results

Compound	RT	Response	Amount ng/uL	Flags
1,4-Dioxane	2.580	1786		
Pyridine	2.965	177	0.004226	
Benzidine	14.593	289	0.003503	

Tentative Identified Compound Results

RT	Response	Amount ng/uL	Quant Cpnd	Qual	Lib Entry	Flags
4161-60-8 2-Pentanone, 4-hydroxy-						
3.816	1359498	4.33	1	59	4886	
17429-4-8 2-Pentanone, 5-methoxy-						
4.197	70600189	224.7	1	42	5841	
Unknown						
4.211	385149	1.23	1			
40499-83-0 3-Pyrrolidinol						
5.229	266900	0.8494	1	38	4163	
111-84-2 Nonane						
6.318	157489	0.5012	1	64	5495	
89950-0-5 d:a-Friedoursan-3-one						
15.277	2655632	6.32	5	64	56201	
593-49-7 Heptacosane						
16.656	206945	0.5200	6	78	16471	

Report Date: 09-Mar-2013 09:11:21 Chrom Revision: 2.0 01-Feb-2013 10:03:10
Data File: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3147.D
Quantitation Compounds

Compound	RT	Response	Amount ng/uL
* 1 1,4-Dichlorobenzene-d4	6.541	1571169	5.00
* 5 Chrysene-d12	15.729	2101504	5.00
* 6 Perylene-d12	17.004	1989964	5.00

QC Flag Legend

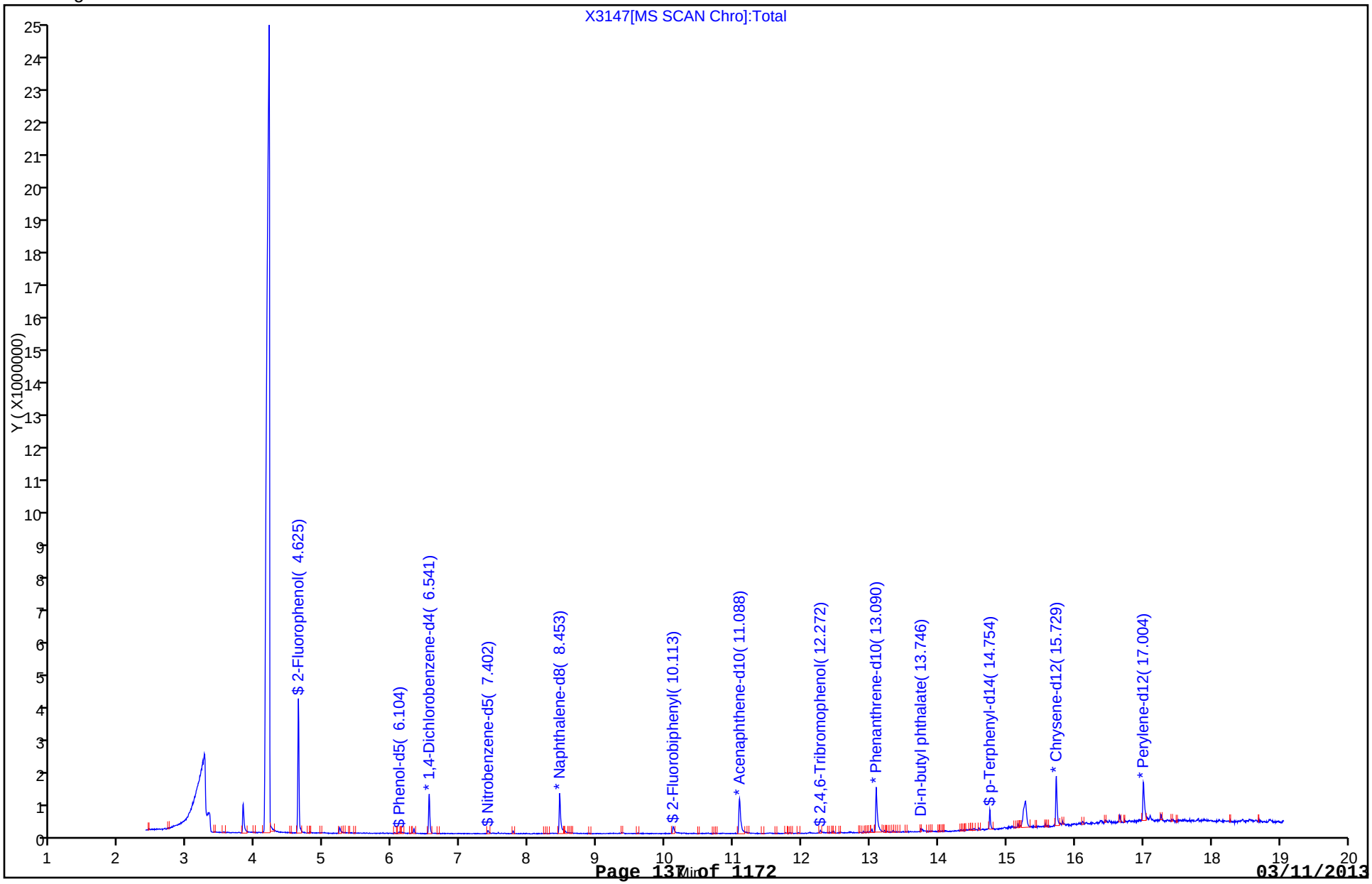
Processing Flags

Report Date: 09-Mar-2013 09:11:21 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3147.D		
Injection Date:	18-Dec-2012 19:00:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-526-1.0/3.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	18
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

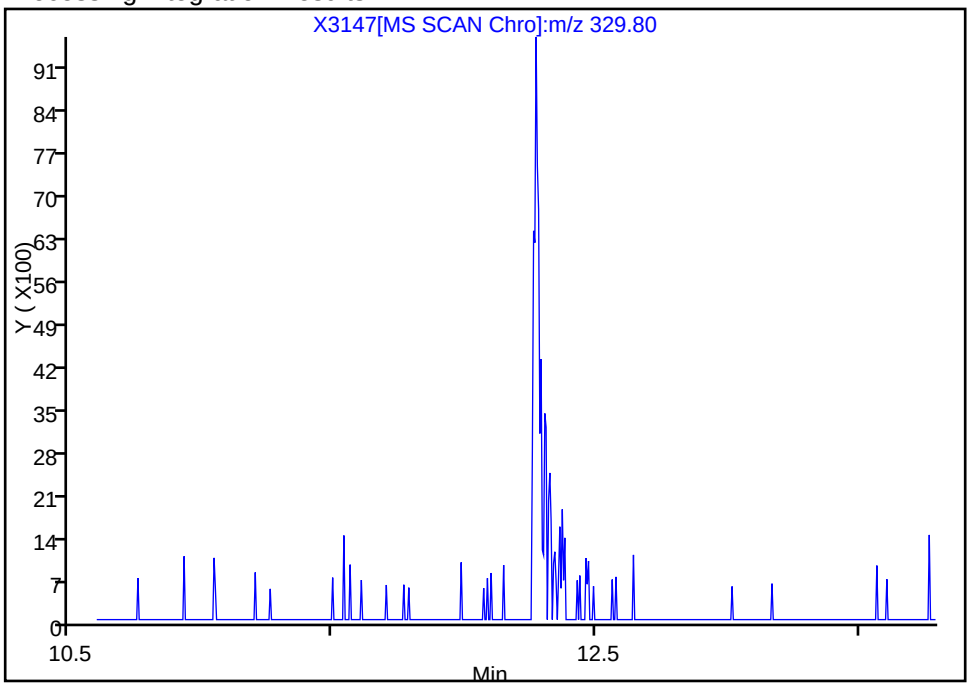
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3147.D		
Injection Date:	18-Dec-2012 19:00:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-526-1.0/3.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	18
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: 12.20

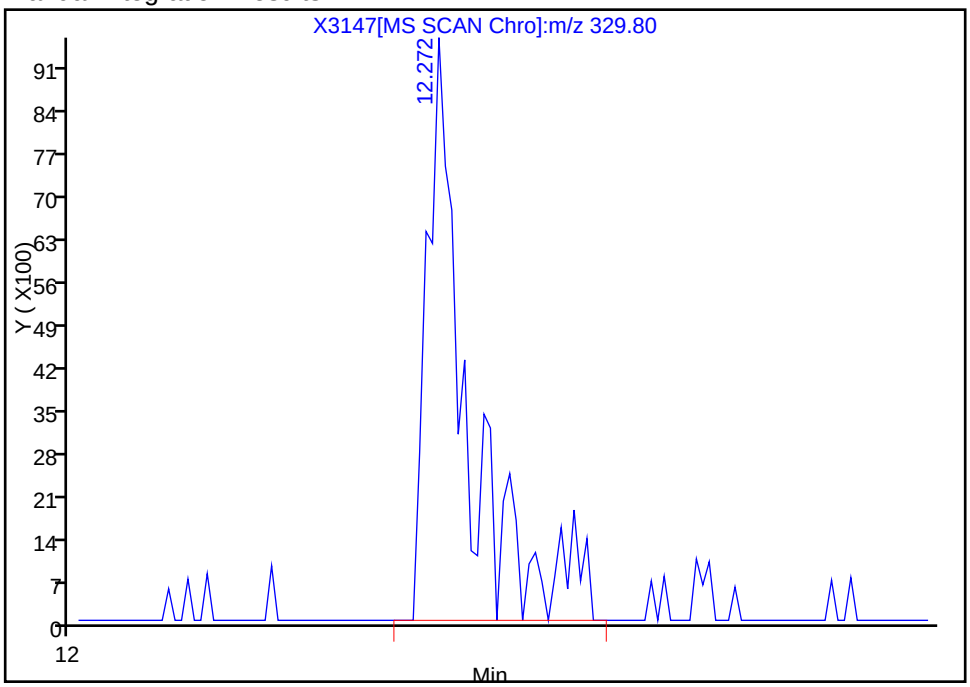
Processing Integration Results

Not Detected
Expected RT: 12.20



Manual Integration Results

RT: 12.27
Response: 20094
Amount: 1.237504



Reviewer: mckernar, 19-Dec-2012 09:08:58
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

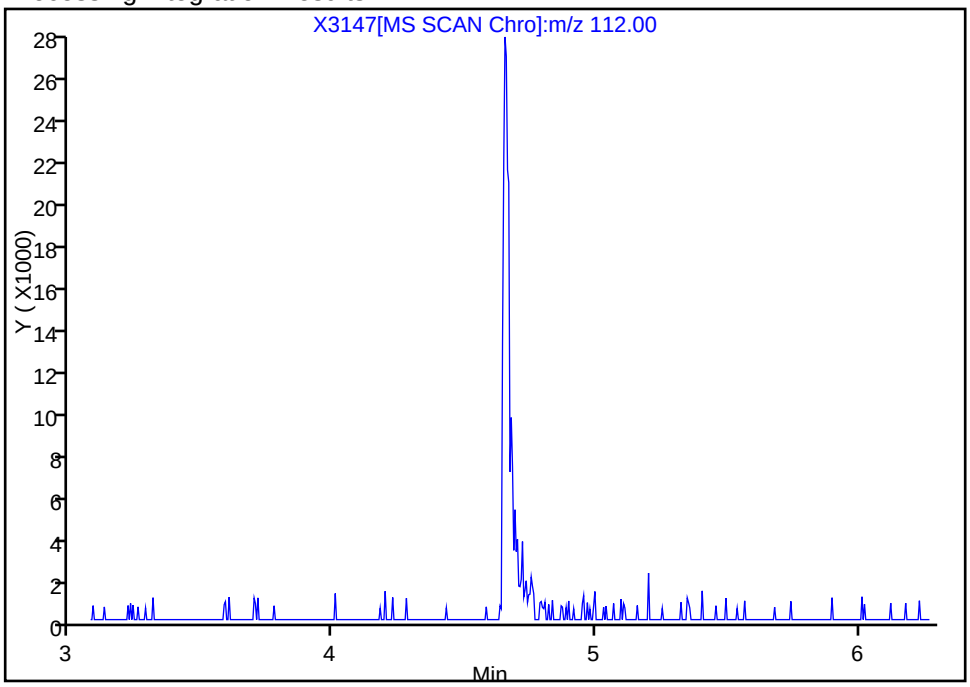
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3147.D		
Injection Date:	18-Dec-2012 19:00:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-526-1.0/3.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	18
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: 4.67

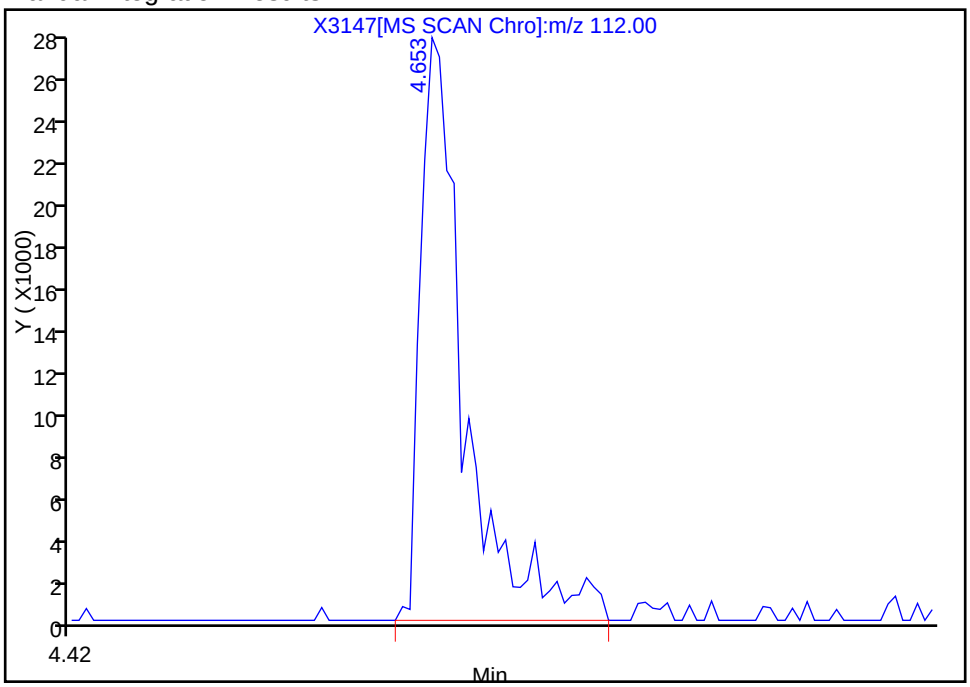
Processing Integration Results

Not Detected
Expected RT: 4.67



Manual Integration Results

RT: 4.65
Response: 54383
Amount: 1.061485



Reviewer: mckernar, 19-Dec-2012 09:08:58
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

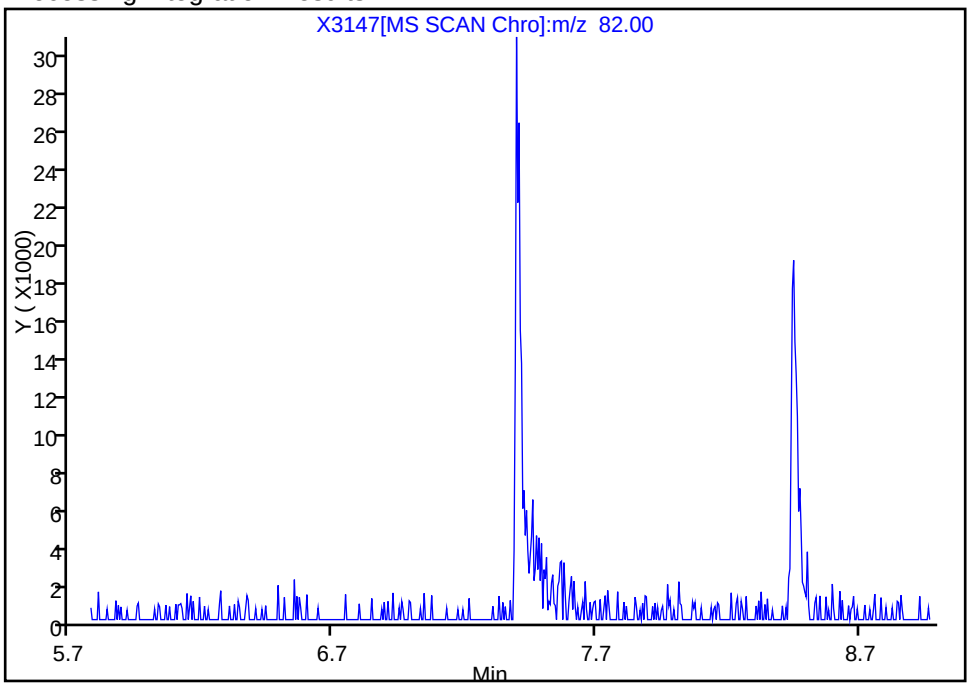
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3147.D		
Injection Date:	18-Dec-2012 19:00:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-526-1.0/3.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	18
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: 7.37

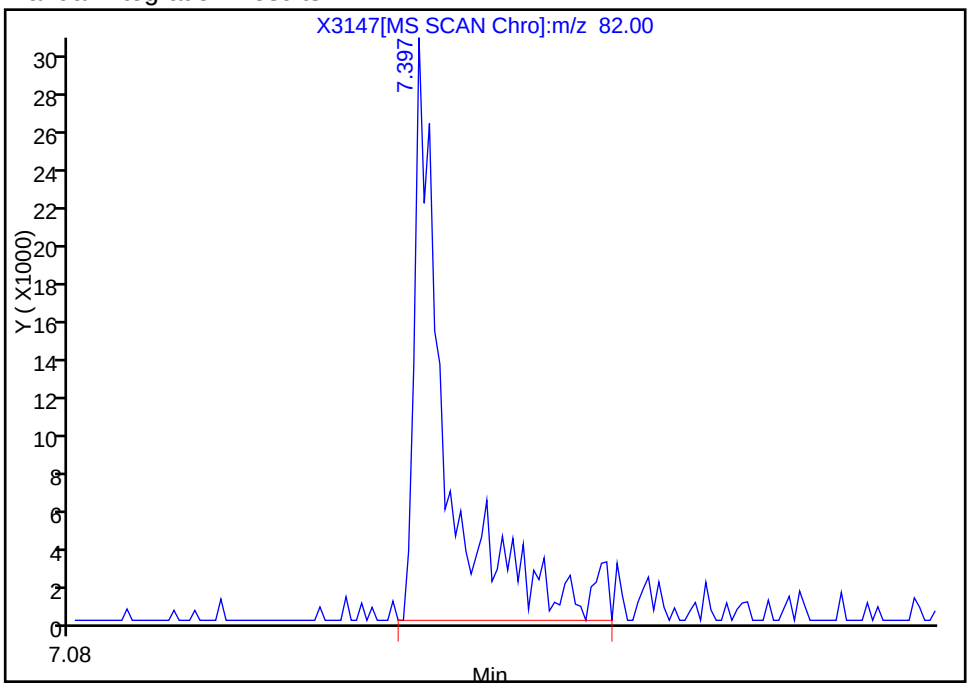
Processing Integration Results

Not Detected
Expected RT: 7.37



Manual Integration Results

RT: 7.40
Response: 62328
Amount: 1.017910



Reviewer: mckernar, 19-Dec-2012 09:08:58
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

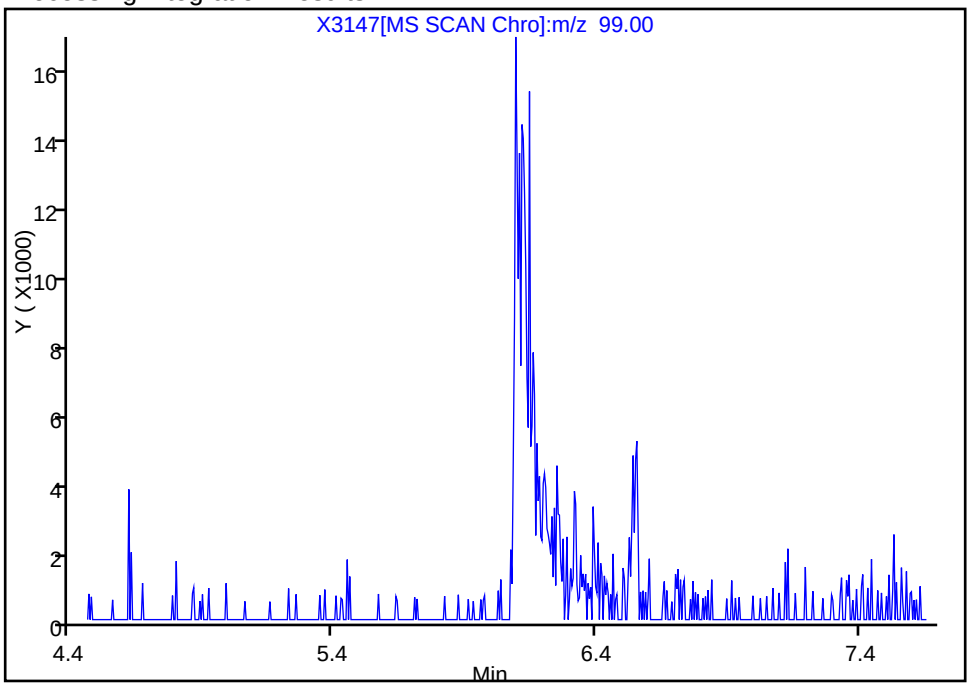
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3147.D		
Injection Date:	18-Dec-2012 19:00:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-526-1.0/3.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	18
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: 6.06

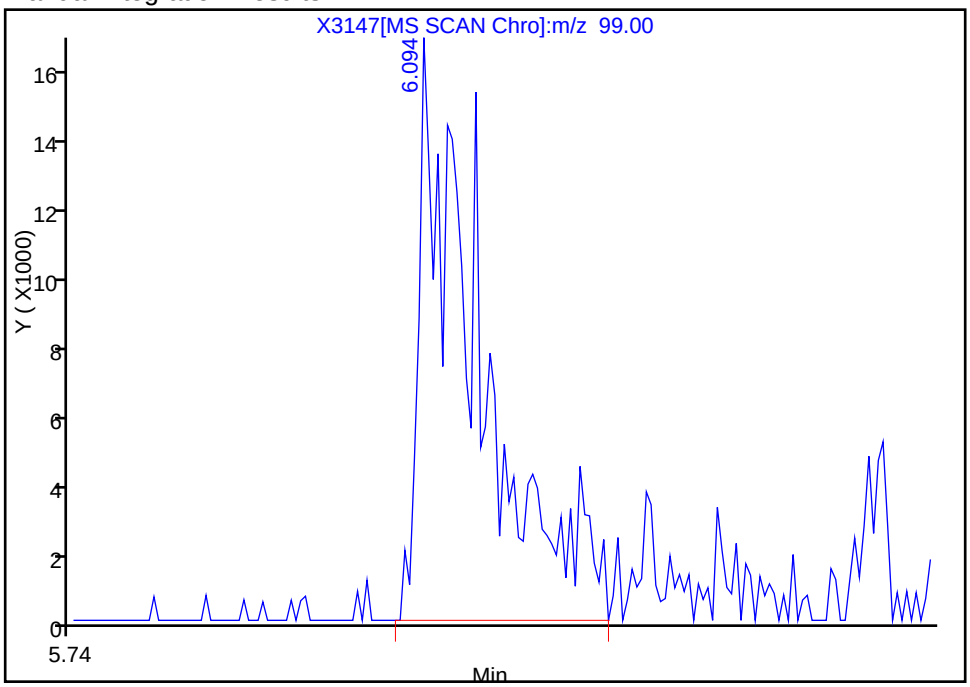
Processing Integration Results

Not Detected
Expected RT: 6.06



Manual Integration Results

RT: 6.09
Response: 67840
Amount: 1.087970



Reviewer: mckernar, 19-Dec-2012 09:08:58
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

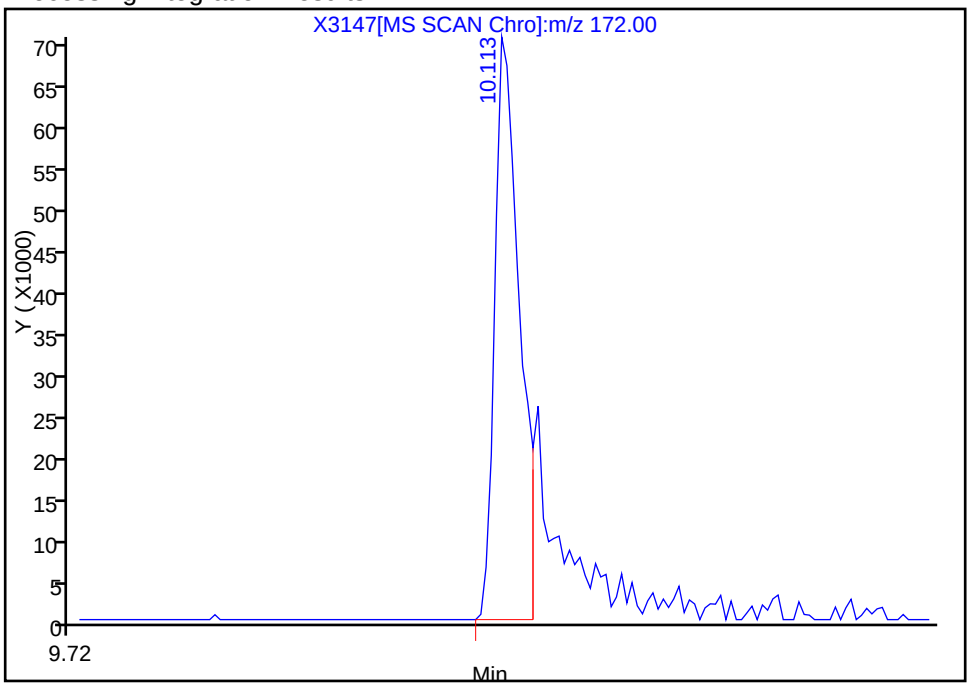
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3147.D		
Injection Date:	18-Dec-2012 19:00:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-526-1.0/3.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	18
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

$ 10 2-Fluorobiphenyl, Signal: 1, m/z: 172.0 Type: quant, RT: 10.06

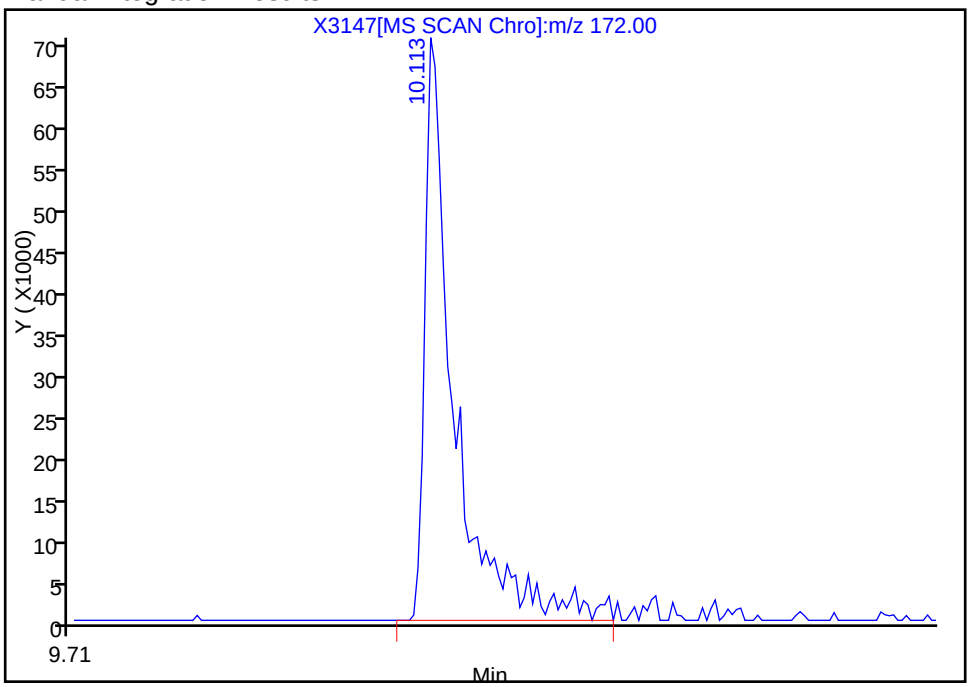
Processing Integration Results

RT: 10.11
Response: 110761
Amount: 0.883904



Manual Integration Results

RT: 10.11
Response: 159853
Amount: 1.327110



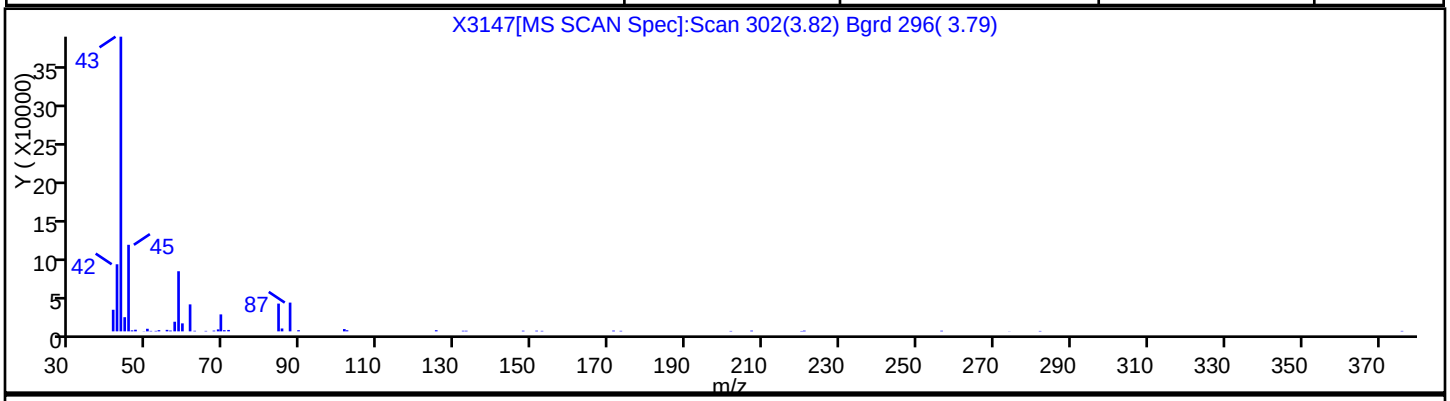
Reviewer: mckernar, 19-Dec-2012 09:08:58
Audit Action: Manually Integrated
Audit Reason: Assign Peak

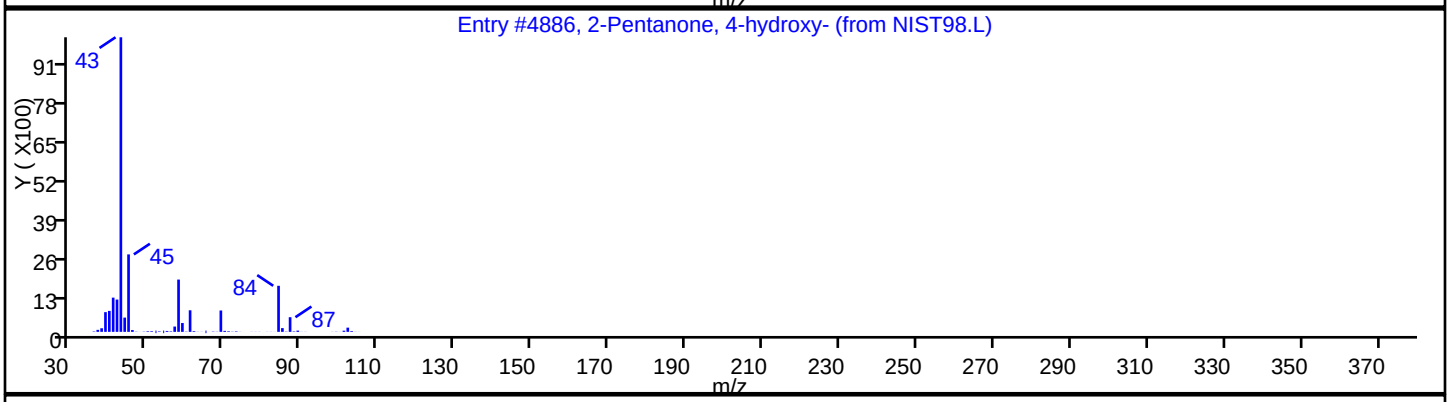
Report Date: 09-Mar-2013 09:11:22 Chrom Revision: 2.0 01-Feb-2013 10:03:10

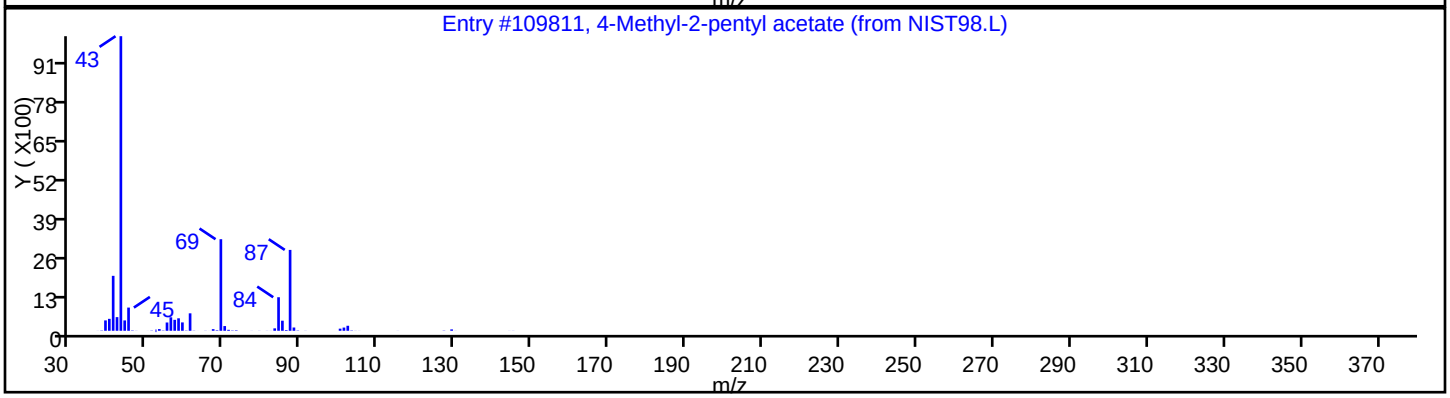
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3147.D		
Injection Date:	18-Dec-2012 19:00:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-526-1.0/3.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	18
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-Pentanone, 4-hydroxy-	4161-60-8	NIST98.L	4886	59
4-Methyl-2-pentyl acetate	108-84-9	NIST98.L	109811	12





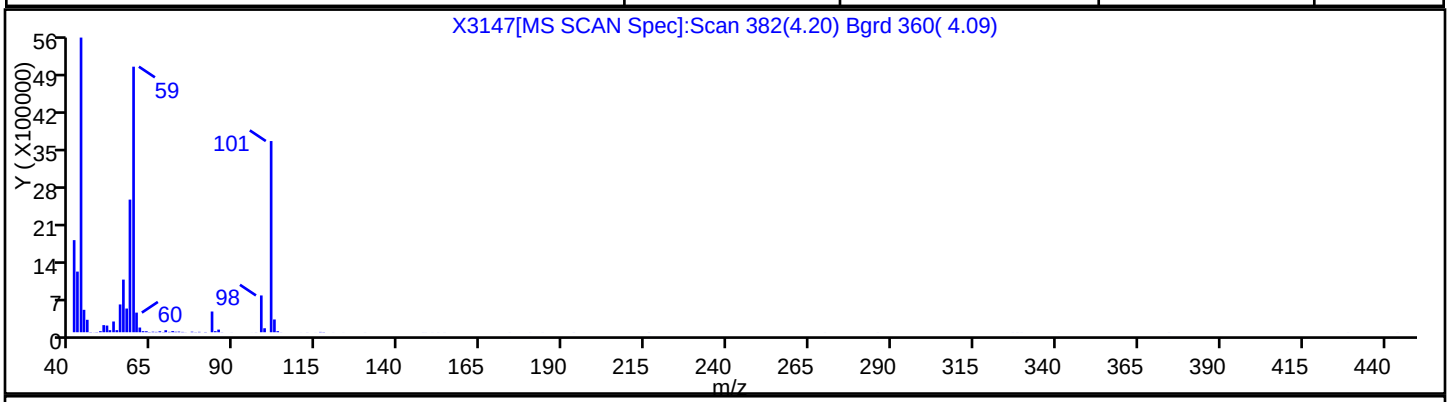


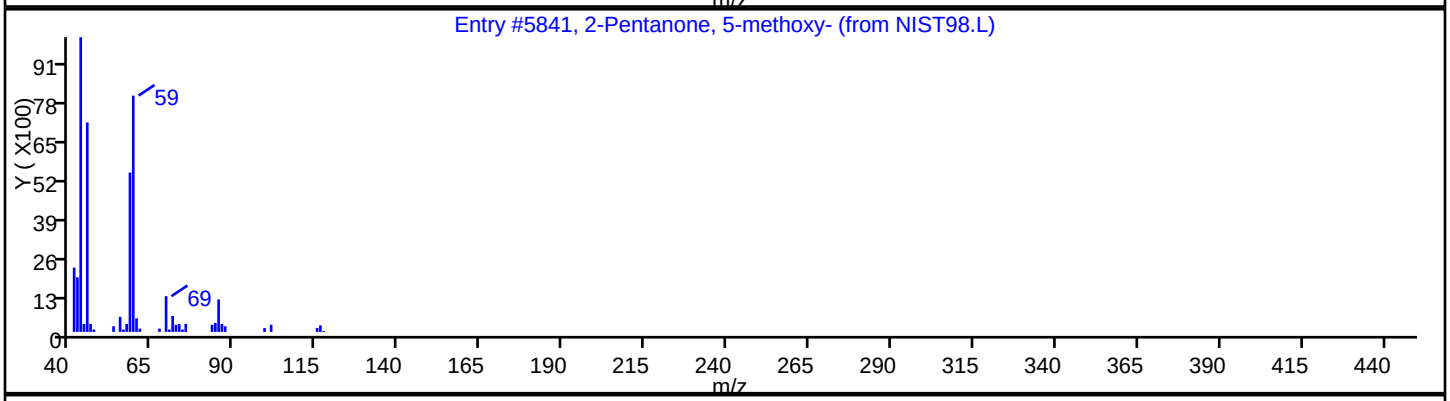
Report Date: 09-Mar-2013 09:11:22 Chrom Revision: 2.0 01-Feb-2013 10:03:10

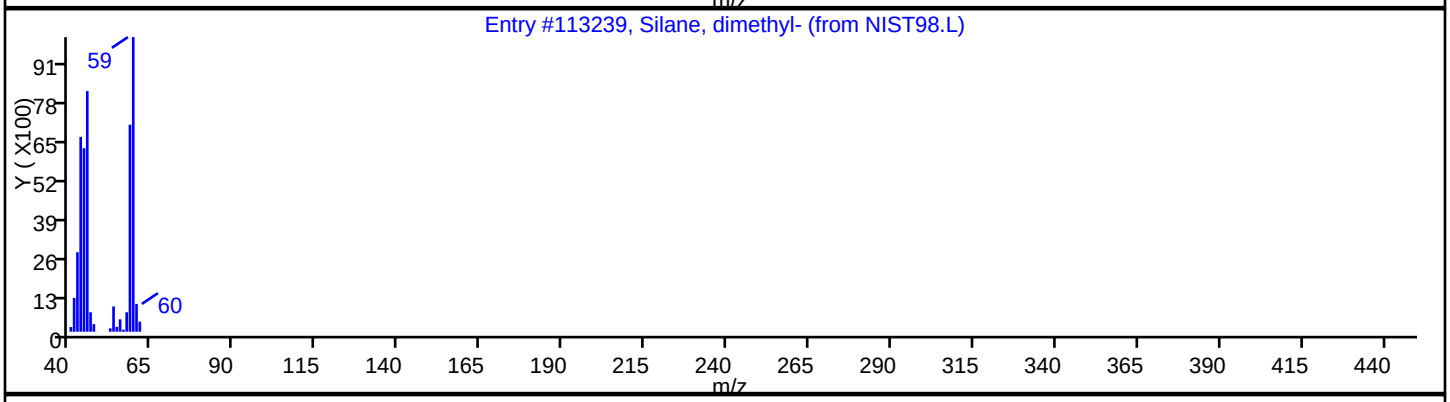
TestAmerica Buffalo

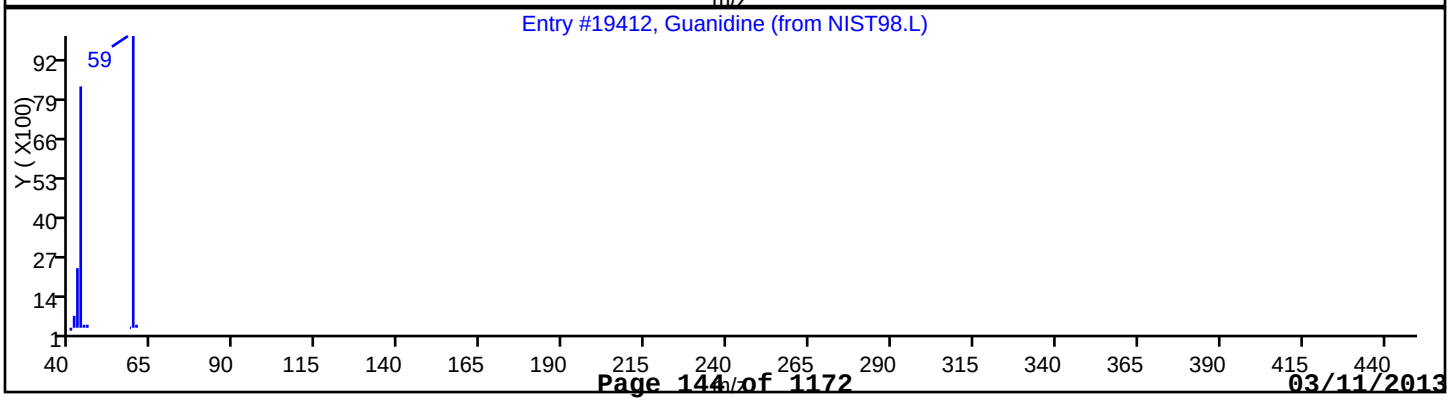
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3147.D		
Injection Date:	18-Dec-2012 19:00:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-526-1.0/3.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	18
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
2-Pentanone, 5-methoxy-	17429-4-8	NIST98.L	5841	42
Silane, dimethyl-	1111-74-6	NIST98.L	113239	38
Guanidine	113-0-8	NIST98.L	19412	38







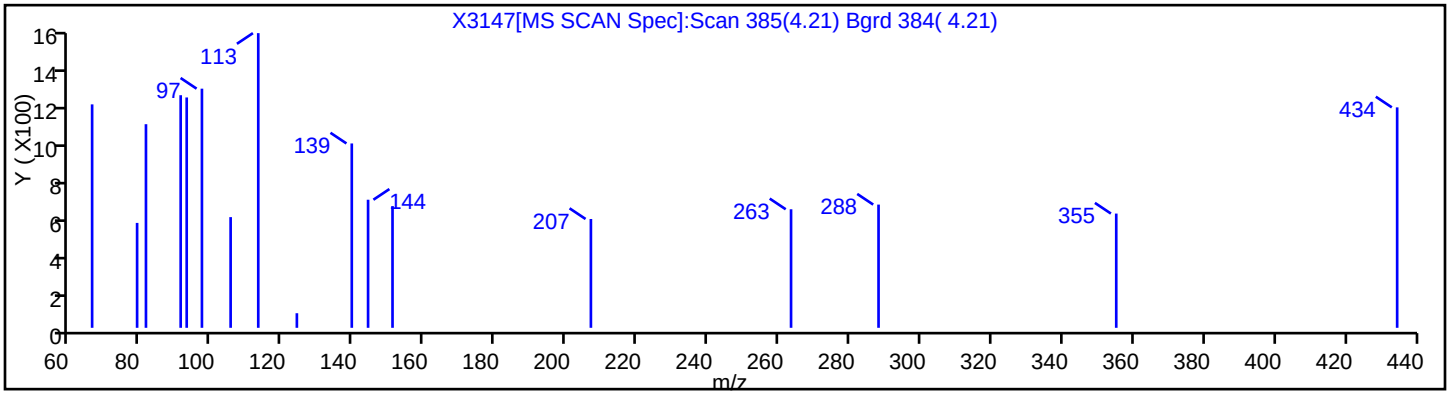


Report Date: 09-Mar-2013 09:11:22 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3147.D		
Injection Date:	18-Dec-2012 19:00:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-526-1.0/3.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	18
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: 10

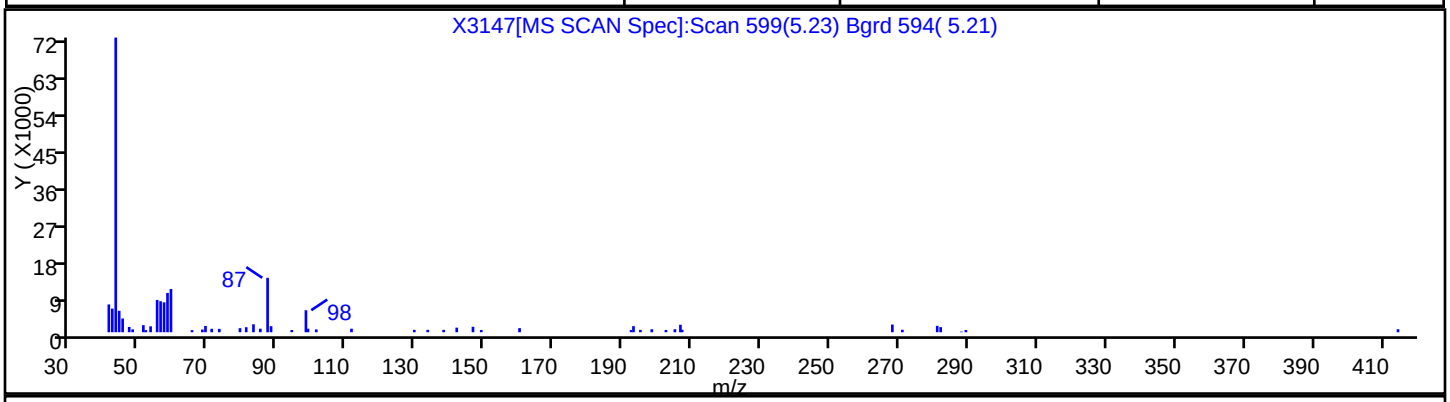


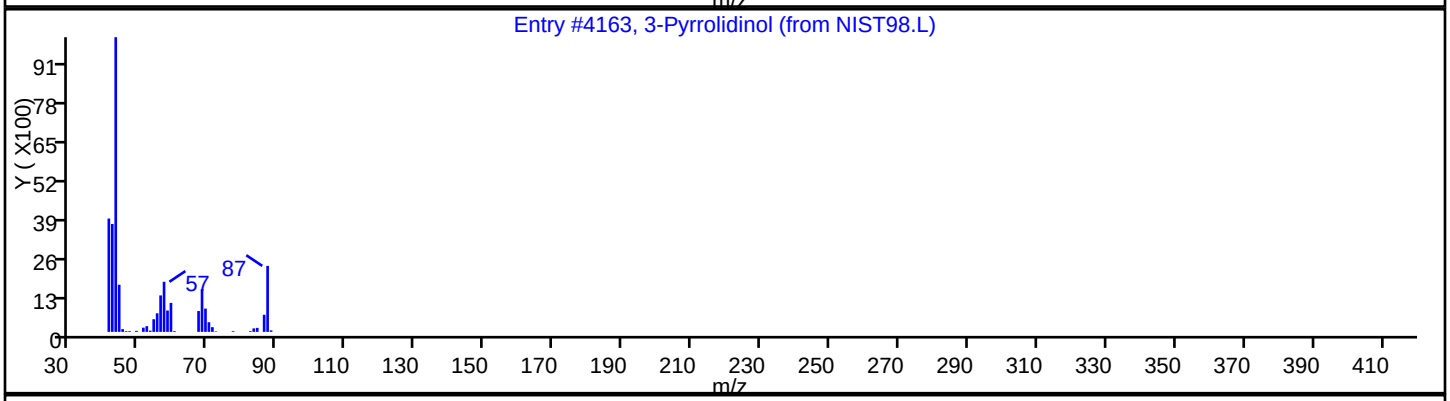
Report Date: 09-Mar-2013 09:11:22 Chrom Revision: 2.0 01-Feb-2013 10:03:10

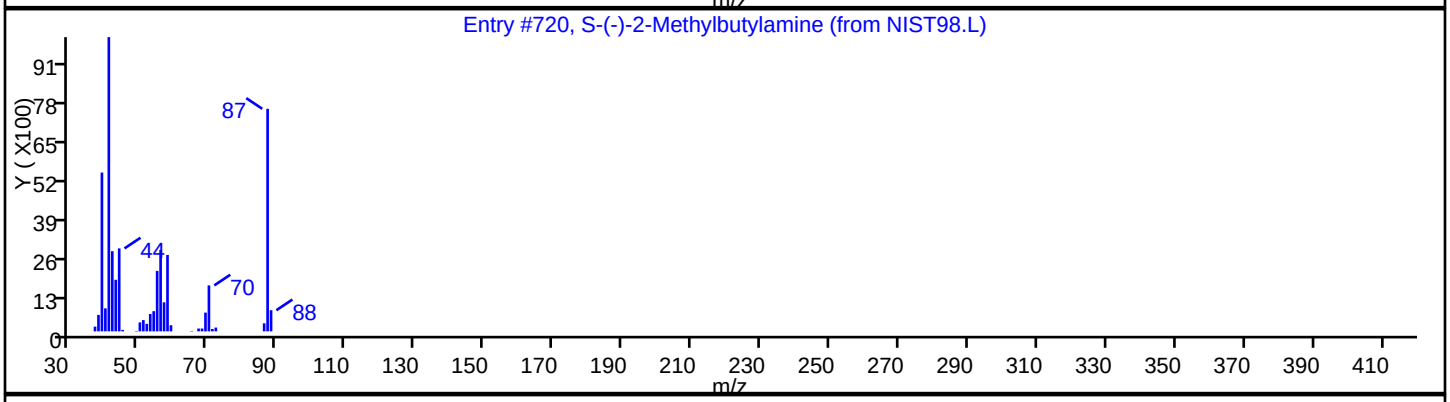
TestAmerica Buffalo

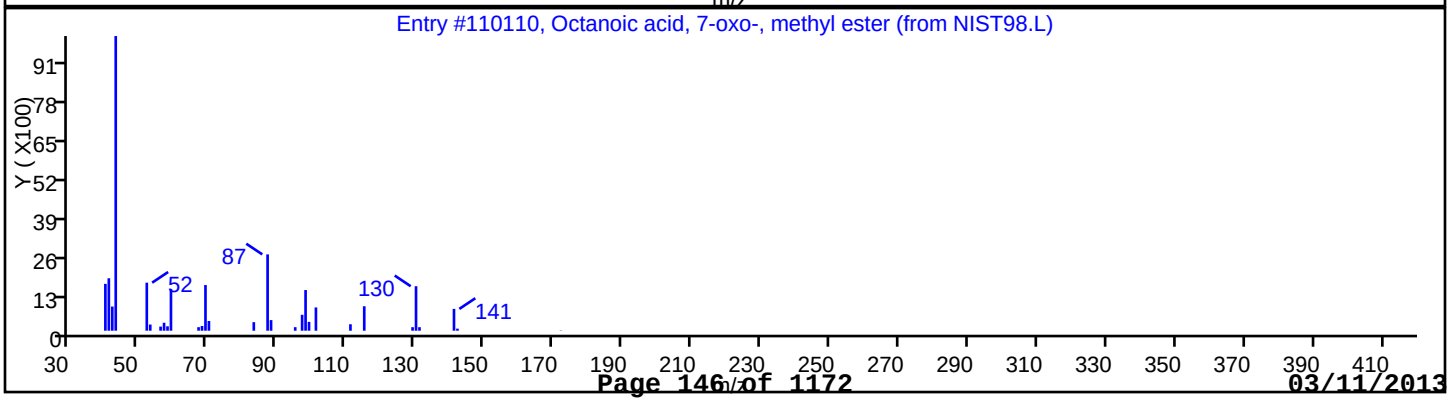
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3147.D		
Injection Date:	18-Dec-2012 19:00:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-526-1.0/3.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	18
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
3-Pyrrolidinol	40499-83-0	NIST98.L	4163	38
S-(-)-2-Methylbutylamine	20626-52-2	NIST98.L	720	27
Octanoic acid, 7-oxo-, methyl ester	16493-42-8	NIST98.L	110110	23









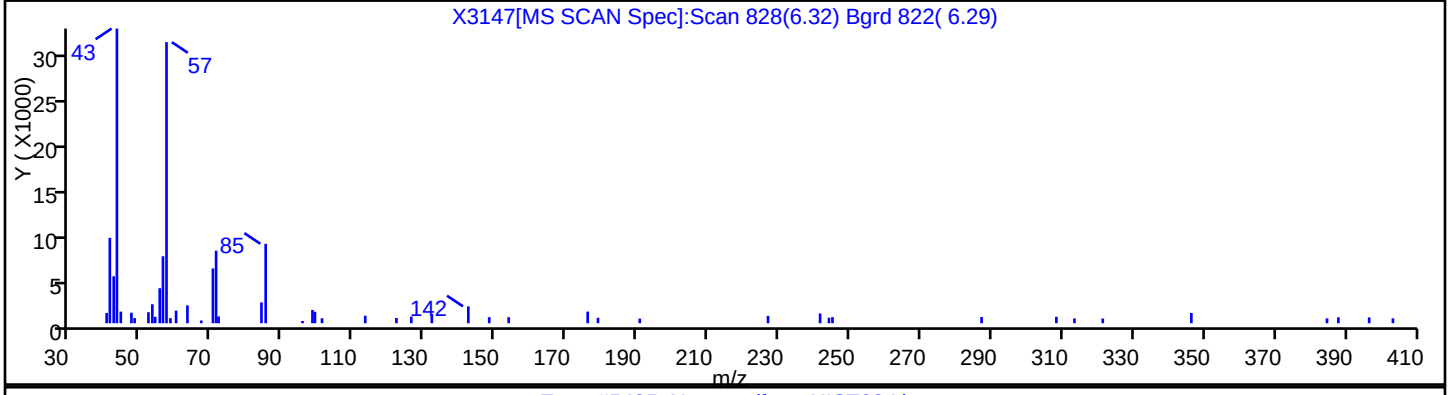
Report Date: 09-Mar-2013 09:11:22 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

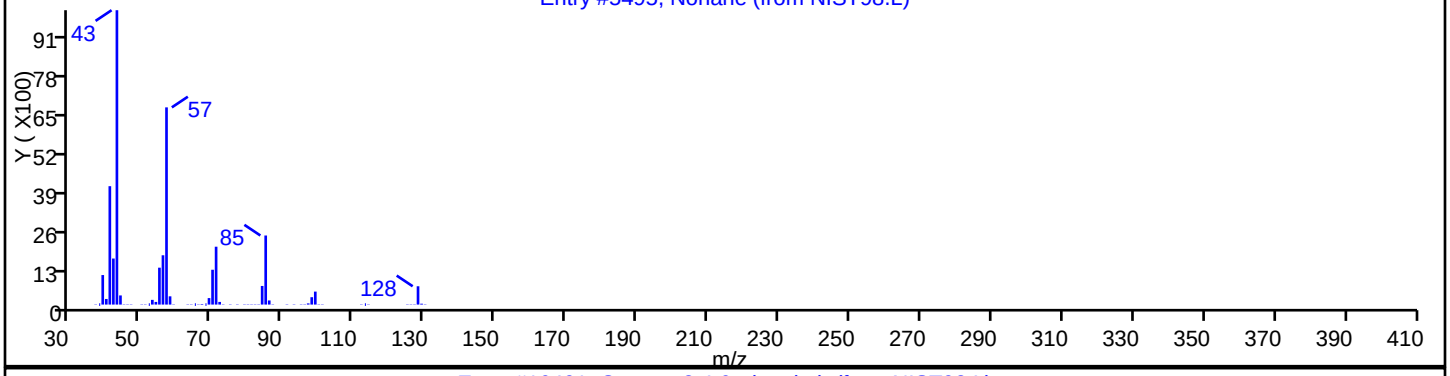
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3147.D		
Injection Date:	18-Dec-2012 19:00:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-526-1.0/3.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	18
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Nonane	111-84-2	NIST98.L	5495	64
Octane, 2,4,6-trimethyl-	62016-37-9	NIST98.L	16491	53
Octane	111-65-9	NIST98.L	109231	50

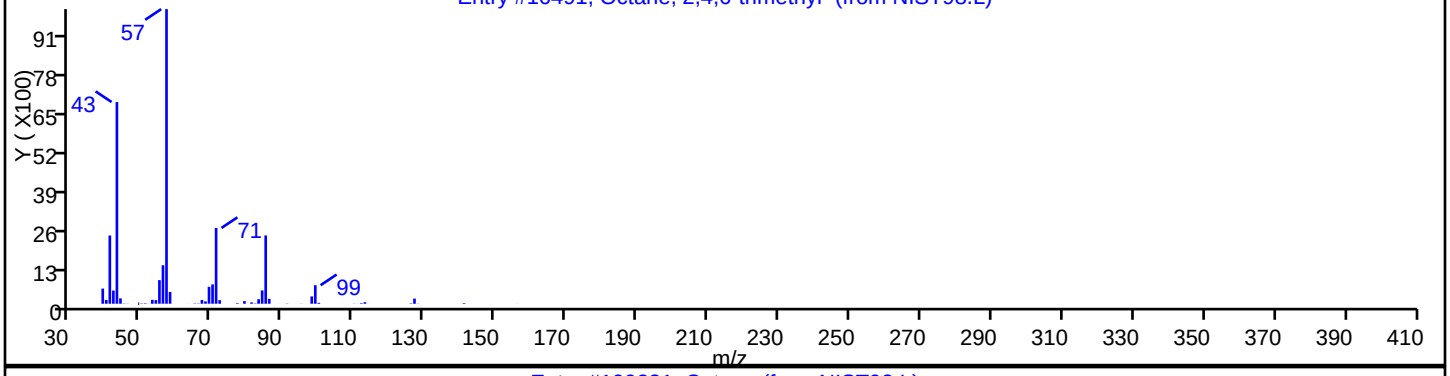
X3147[MS SCAN Spec]:Scan 828(6.32) Bgrd 822(6.29)



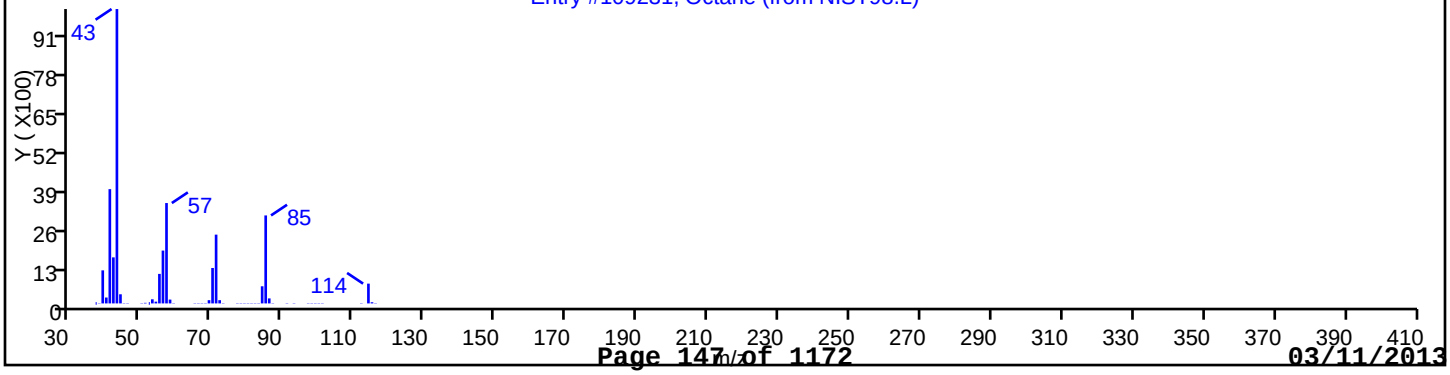
Entry #5495, Nonane (from NIST98.L)



Entry #16491, Octane, 2,4,6-trimethyl- (from NIST98.L)



Entry #109231, Octane (from NIST98.L)

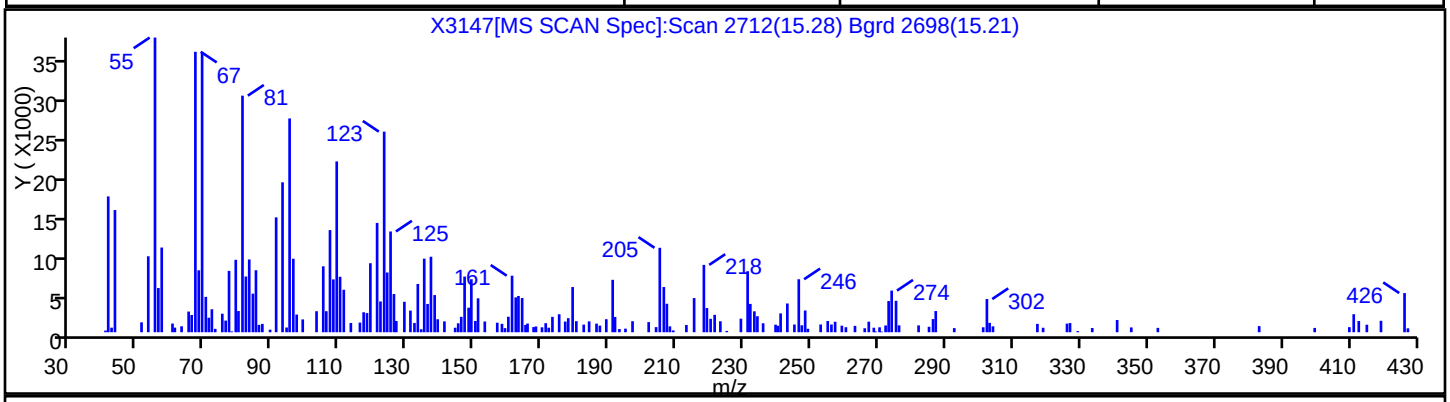


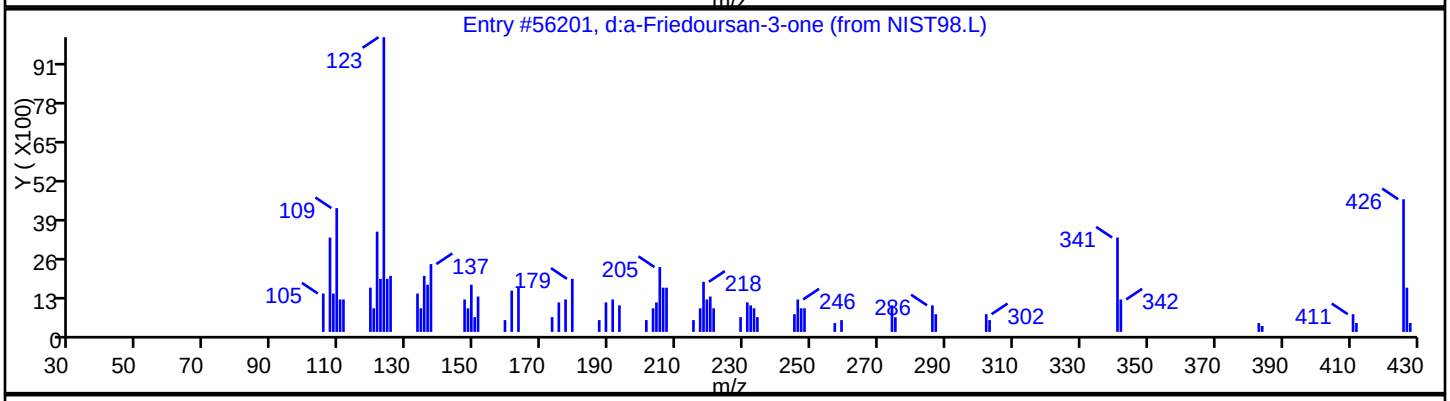
Report Date: 09-Mar-2013 09:11:22 Chrom Revision: 2.0 01-Feb-2013 10:03:10

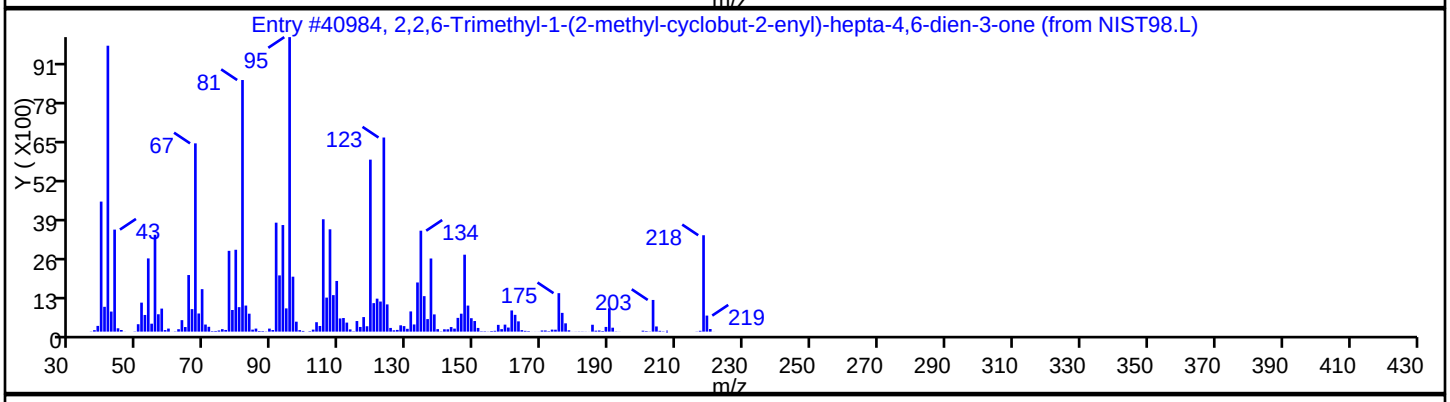
TestAmerica Buffalo

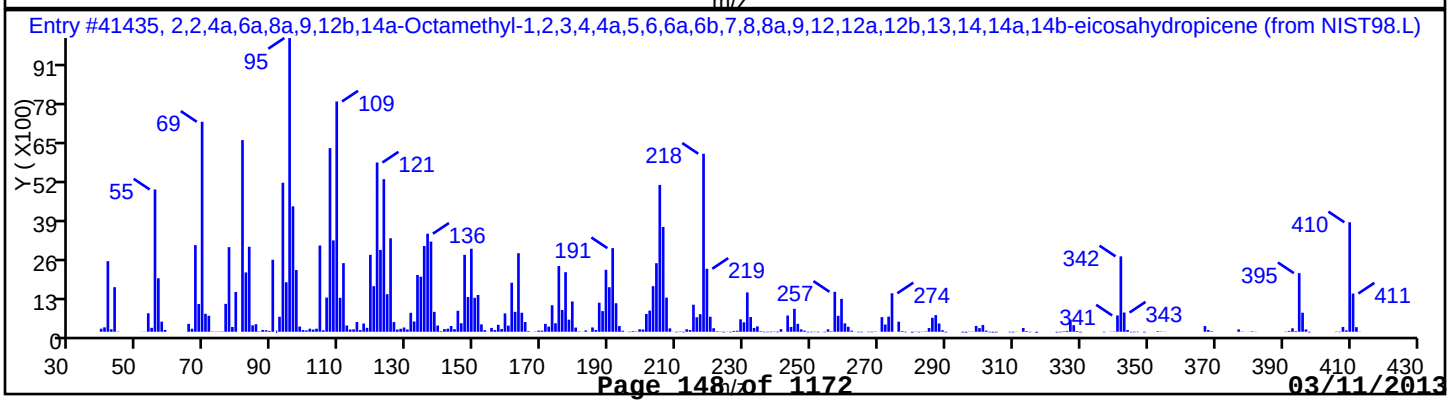
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3147.D		
Injection Date:	18-Dec-2012 19:00:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-526-1.0/3.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	18
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
d:a-Friedoursan-3-one	89950-0-5	NIST98.L	56201	64
2,2,6-Trimethyl-1-(2-methyl-cyclobut-2-e	1000188-72-8	NIST98.L	40984	64
2,2,4a,6a,8a,9,12b,14a-Octamethyl-1,2,3,	1000194-63-7	NIST98.L	41435	56







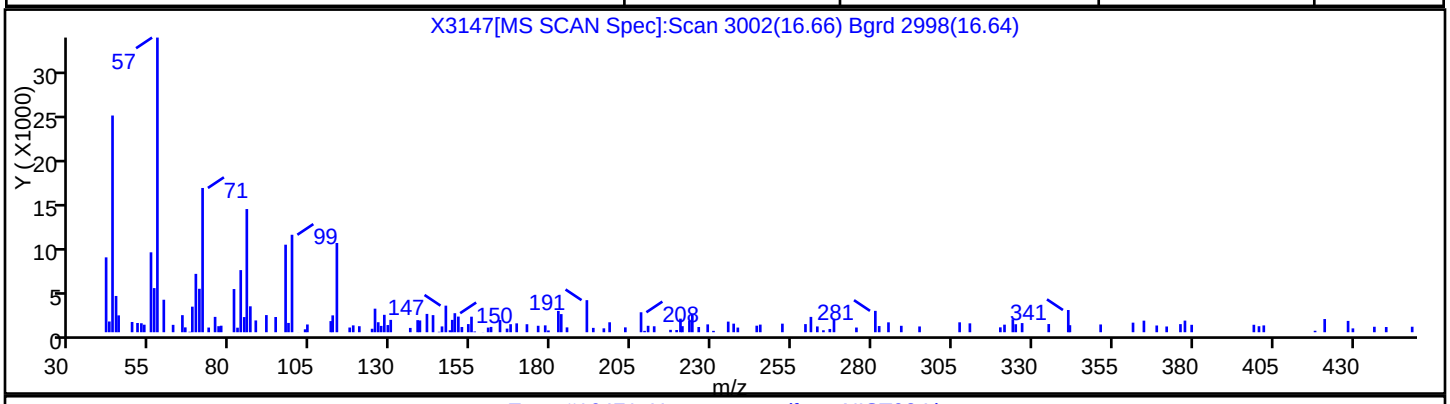


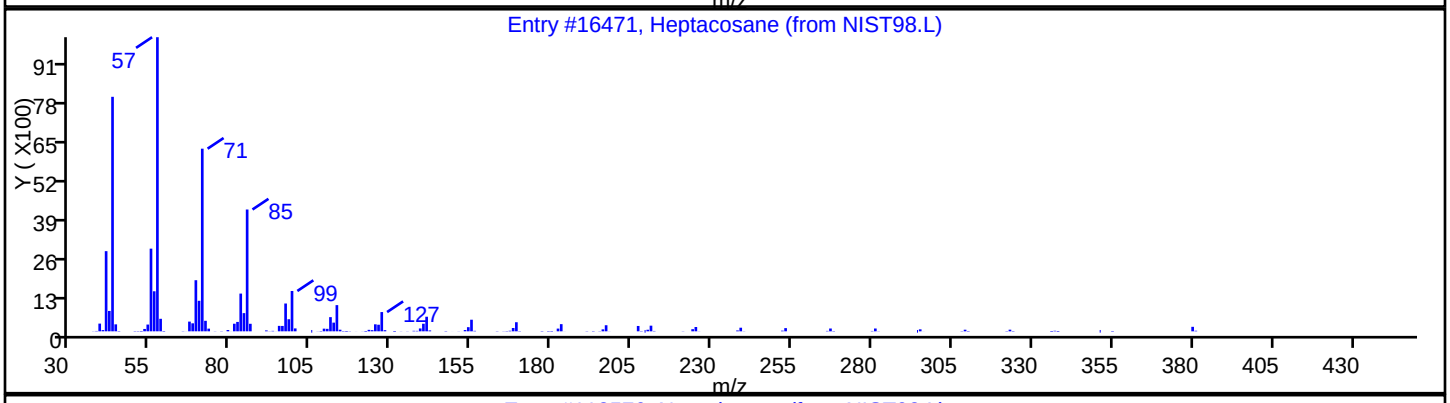
Report Date: 09-Mar-2013 09:11:22 Chrom Revision: 2.0 01-Feb-2013 10:03:10

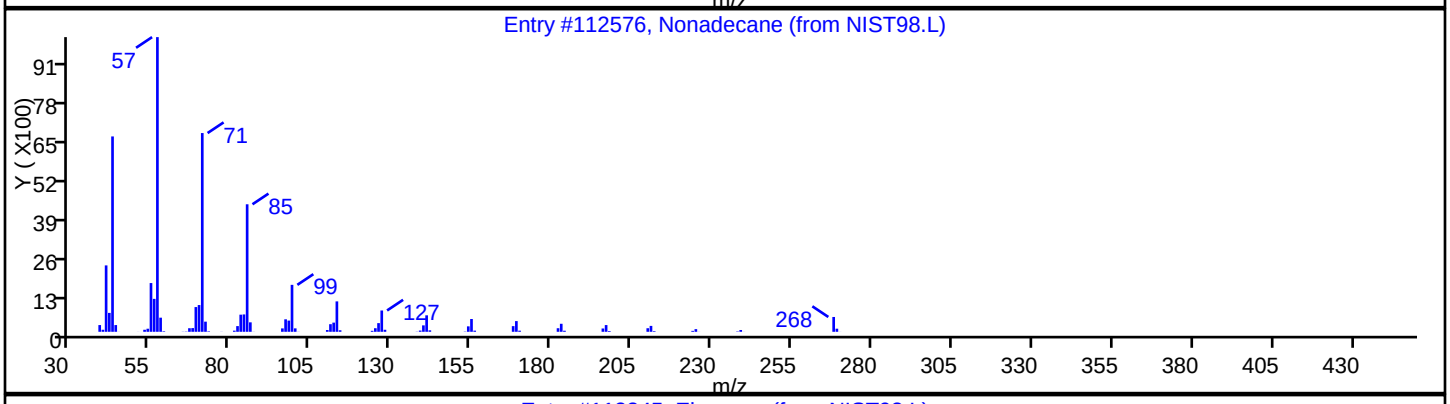
TestAmerica Buffalo

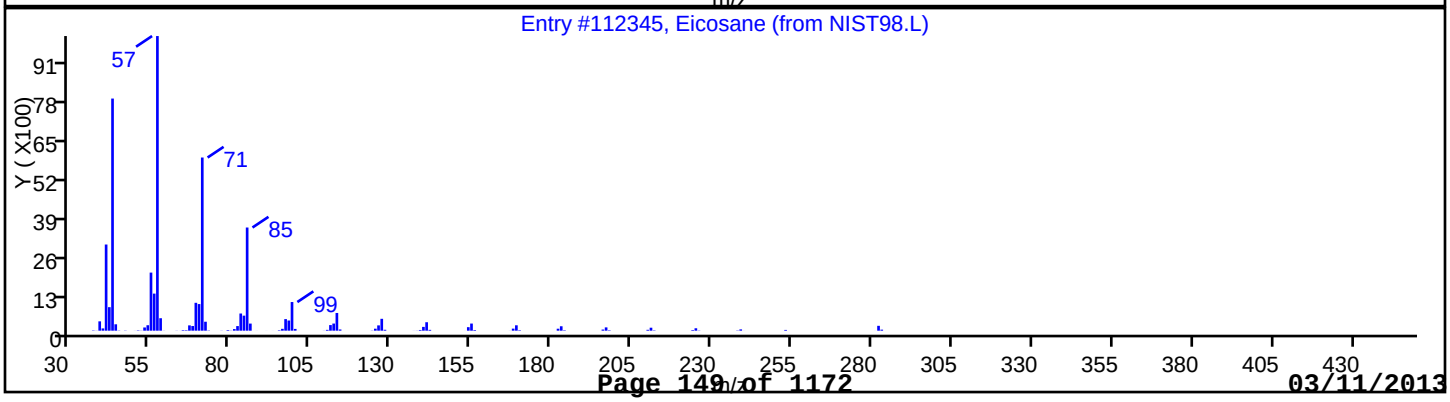
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3147.D		
Injection Date:	18-Dec-2012 19:00:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-526-1.0/3.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	18
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Heptacosane	593-49-7	NIST98.L	16471	78
Nonadecane	629-92-5	NIST98.L	112576	60
Eicosane	112-95-8	NIST98.L	112345	55









FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-29598-1

SDG No.:

Client Sample ID: OC-SB-528-0.0/1.0-XXX | Lab Sample ID: 480-29598-7

Matrix: Solid | Lab File ID: X3148.D

Analysis Method: 8270D | Date Collected: 12/05/2012 14:00

Extract. Method: 3546 | Date Extracted: 12/11/2012 08:51

Sample wt/vol: 000030.6(g) | Date Analyzed: 12/18/2012 19:26

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

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

% Moisture: 73.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 96347 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	ND		2400	730
95-50-1	1,2-Dichlorobenzene	ND		2400	730
541-73-1	1,3-Dichlorobenzene	ND		2400	730
100-52-7	Benzaldehyde	ND		2400	730
106-46-7	1,4-Dichlorobenzene	ND		2400	730
108-60-1	2,2'-oxybis[1-chloropropane]	ND		2400	730
95-95-4	2,4,5-Trichlorophenol	ND		2400	800
88-06-2	2,4,6-Trichlorophenol	ND		2400	1000
100-51-6	Benzyl alcohol	ND		4800	730
120-83-2	2,4-Dichlorophenol	ND		2400	730
105-67-9	2,4-Dimethylphenol	ND		2400	730
51-28-5	2,4-Dinitrophenol	ND	*	2400	2000
121-14-2	2,4-Dinitrotoluene	ND		2400	730
100-01-6	4-Nitroaniline	ND		12000	2000
606-20-2	2,6-Dinitrotoluene	ND		2400	2000
91-58-7	2-Chloronaphthalene	ND	*	2400	730
95-57-8	2-Chlorophenol	ND		2400	730
86-30-6	N-Nitrosodiphenylamine	1300	J	2400	730
91-57-6	2-Methylnaphthalene	ND		2400	730
95-48-7	2-Methylphenol	ND		2400	730
88-75-5	2-Nitrophenol	ND		2400	940
15831-10-4	3 & 4 Methylphenol	ND		2400	730
91-94-1	3,3'-Dichlorobenzidine	ND		4800	870
88-74-4	2-Nitroaniline	ND		12000	3100
101-55-3	4-Bromophenyl phenyl ether	ND		2400	730
77-47-4	Hexachlorocyclopentadiene	ND		4800	730
106-47-8	4-Chloroaniline	ND		4800	2200
100-02-7	4-Nitrophenol	ND	*	12000	1000
83-32-9	Acenaphthene	ND		2400	730
534-52-1	4,6-Dinitro-2-methylphenol	ND		12000	2300
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		2400	730
208-96-8	Acenaphthylene	ND		2400	730
98-86-2	Acetophenone	ND		2400	730
62-53-3	Aniline	ND		2400	730

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-29598-1

SDG No.:

Client Sample ID: OC-SB-528-0.0/1.0-XXX | Lab Sample ID: 480-29598-7

Matrix: Solid | Lab File ID: X3148.D

Analysis Method: 8270D | Date Collected: 12/05/2012 14:00

Extract. Method: 3546 | Date Extracted: 12/11/2012 08:51

Sample wt/vol: 000030.6(g) | Date Analyzed: 12/18/2012 19:26

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

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

% Moisture: 73.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 96347 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-12-7	Anthracene	ND		2400	730
1912-24-9	Atrazine	ND		2400	730
103-33-3	Azobenzene	ND		2400	730
56-55-3	Benzo[a]anthracene	ND		2400	730
50-32-8	Benzo[a]pyrene	ND		2400	730
205-99-2	Benzo[b]fluoranthene	ND		2400	730
191-24-2	Benzo[g,h,i]perylene	ND		2400	730
105-60-2	Caprolactam	ND		2400	730
99-09-2	3-Nitroaniline	ND		12000	730
207-08-9	Benzo[k]fluoranthene	ND		2400	1200
111-91-1	Bis(2-chloroethoxy)methane	ND		2400	730
92-52-4	1,1'-Biphenyl	930	J	2400	730
111-44-4	Bis(2-chloroethyl)ether	ND		2400	730
117-81-7	Bis(2-ethylhexyl) phthalate	41000		12000	4900
85-68-7	Butyl benzyl phthalate	ND		2400	730
218-01-9	Chrysene	ND		2400	730
621-64-7	N-Nitrosodi-n-propylamine	ND		2400	730
65-85-0	Benzoic acid	ND		12000	1100
53-70-3	Dibenz(a,h)anthracene	ND		2400	730
132-64-9	Dibenzofuran	ND		2400	730
84-66-2	Diethyl phthalate	ND		2400	800
131-11-3	Dimethyl phthalate	ND		2400	730
84-74-2	Di-n-butyl phthalate	ND		12000	3600
117-84-0	Di-n-octyl phthalate	ND		2400	730
101-84-8	Phenyl ether	1900	J	2400	730
58-90-2	2,3,4,6-Tetrachlorophenol	ND		2400	730
206-44-0	Fluoranthene	ND		2400	730
59-50-7	4-Chloro-3-methylphenol	ND		4800	730
86-73-7	Fluorene	ND		2400	730
7005-72-3	4-Chlorophenyl phenyl ether	ND		2400	730
118-74-1	Hexachlorobenzene	ND		2400	730
87-68-3	Hexachlorobutadiene	ND		2400	730
67-72-1	Hexachloroethane	ND		2400	730
193-39-5	Indeno[1,2,3-cd]pyrene	ND	*	2400	730

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-29598-1

SDG No.:

Client Sample ID: OC-SB-528-0.0/1.0-XXX | Lab Sample ID: 480-29598-7

Matrix: Solid | Lab File ID: X3148.D

Analysis Method: 8270D | Date Collected: 12/05/2012 14:00

Extract. Method: 3546 | Date Extracted: 12/11/2012 08:51

Sample wt/vol: 000030.6(g) | Date Analyzed: 12/18/2012 19:26

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

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

% Moisture: 73.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 96347 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
78-59-1	Isophorone	ND		2400	730
91-20-3	Naphthalene	ND		2400	730
98-95-3	Nitrobenzene	ND		2400	730
87-86-5	Pentachlorophenol	ND		2400	730
85-01-8	Phenanthrene	ND		2400	730
119-61-9	Benzophenone	ND		2400	730
108-95-2	Phenol	ND		2400	730
129-00-0	Pyrene	ND		2400	730
62-75-9	N-Nitrosodimethylamine	ND		2400	730
86-74-8	Carbazole	ND		2400	730
90-12-0	1-Methylnaphthalene	ND		2400	730
106-44-5	4-Methylphenol	ND		2400	730

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.: 480-29598-1

SDG No.:

Client Sample ID: OC-SB-528-0.0/1.0-XXX | Lab Sample ID: 480-29598-7

Matrix: Solid | Lab File ID: X3148.D

Analysis Method: 8270D | Date Collected: 12/05/2012 14:00

Extract. Method: 3546 | Date Extracted: 12/11/2012 08:51

Sample wt/vol: 000030.6(g) | Date Analyzed: 12/18/2012 19:26

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

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

% Moisture: 73.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 96347 | Units: ug/Kg

Number TICs Found: 10 | TIC Result Total: 268700

CAS NO.	COMPOUND NAME	RT	RESULT	Q
540-88-5	Acetic acid, 1,1-dimethylethyl ester	4.14	42000	T J N
123-48-8	3-Heptene, 2,2,4,6,6-pentamethyl-	9.61	79000	T J N
7756-94-7	1-Propene, 2-methyl-, trimer	9.67	5100	T J N
4390-4-9	Nonane, 2,2,4,4,6,8,8-heptamethyl-	9.72	46000	T J N
123-48-8	3-Heptene, 2,2,4,6,6-pentamethyl-	9.77	6100	T J N
107-39-1	1-Pentene, 2,4,4-trimethyl-	9.82	30000	T J N
23069-75-2	1,2,4-Triazolo[4,3-b]pyridazine, 8-methy	11.99	7800	T J N
1000126-4-1	Styrene, 2-nitro-3'-[4-methylphenyloxy]-	15.94	15000	T J N
77862-13-6	9,10-Anthracenedione, 1,4-bis(aminomethy	16.04	30000	T J N
1000126-4-1	Styrene, 2-nitro-3'-[4-methylphenyloxy]-	16.17	7700	T J N

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3148.D		
Lims ID:	480-29598-D-7-C	Client ID:	OC-SB-528-0.0/1.0-XXX
Inject. Date:	18-Dec-2012 19:26:30	Dil. Factor:	20.0000
Sample Type:	Client		
Sample ID:	480-0017654-019		
Misc. Info.:			
Operator:	ANM	Instrument ID:	HP5973X
Injection Vol:	1.0 ul	ALS Bottle#:	20
Lims Batch ID:	96347	Lims Sample ID:	19
Detector:	MS SCAN		

Method:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X-8270LL.m		
Last Update:	09-Mar-2013 09:11:13	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: 19-Dec-2012 09:09:54

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.541	6.537	0.004	83	213356	5.00	
* 2 Naphthalene-d8	136	8.458	8.425	0.033	97	830709	5.00	
* 3 Acenaphthene-d10	164	11.088	11.035	0.053	87	472638	5.00	
* 4 Phenanthrene-d10	188	13.094	13.052	0.042	96	787383	5.00	
* 5 Chrysene-d12	240	15.724	15.720	0.004	92	702580	5.00	
* 6 Perylene-d12	264	17.013	17.004	0.009	46	4345490	5.00	s
$ 7 2-Fluorophenol	112		4.672					9
$ 8 Phenol-d5	99		6.061					9
$ 9 Nitrobenzene-d5	82		7.374					
$ 10 2-Fluorobiphenyl	172		10.056					9
$ 11 2,4,6-Tribromophenol	330		12.196					
$ 12 p-Terphenyl-d14	244		14.740					
19 N-Nitrosodimethylamine	42		2.918					
21 Benzaldehyde	77		5.909					
23 Aniline	93		6.071					
22 Phenol	94		6.080					9
24 Bis(2-chloroethyl)ether	93		6.170					1
25 2-Chlorophenol	128		6.237					19
26 1,3-Dichlorobenzene	146		6.451					
27 1,4-Dichlorobenzene	146		6.565					9
28 Benzyl alcohol	108		6.774					
29 1,2-Dichlorobenzene	146		6.784					9
31 2-Methylphenol	108		6.965					9
32 2,2'-oxybis[1-chloropropane]	45		6.979					
33 Acetophenone	105		7.155					
34 N-Nitrosodi-n-propylamine	70		7.164					149
35 DFTPP								
36 4-Methylphenol	108		7.212					
37 Hexachloroethane	117		7.274					
38 Nitrobenzene	77		7.402					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
40 Isophorone	82		7.764					9
41 2-Nitrophenol	139		7.873					
43 2,4-Dimethylphenol	107		7.987					9
45 Bis(2-chloroethoxy)methane	93		8.111					19
44 Benzoic acid	105		8.168					149
47 2,4-Dichlorophenol	162		8.268					
48 1,2,4-Trichlorobenzene	180		8.348					
49 Naphthalene	128		8.458					9
51 4-Chloroaniline	127		8.586					
52 Hexachlorobutadiene	225		8.653					
54 Caprolactam	113		9.114					
55 4-Chloro-3-methylphenol	107		9.371					1
56 2-Methylnaphthalene	142		9.495					9
57 1-Methylnaphthalene	142		9.637					
58 Hexachlorocyclopentadiene	237		9.728					
59 1,2,4,5-Tetrachlorobenzene	216		9.747					149
60 2,4,6-Trichlorophenol	196		9.951					
61 2,4,5-Trichlorophenol	196		10.037					
62 1,1'-Biphenyl	154	10.274	10.198	0.076	48	52312	0.3828	M
63 2-Chloronaphthalene	162		10.241					9
64 Phenyl ether	170	10.417	10.360	0.057	81	58952	0.7933	M
65 2-Nitroaniline	65		10.417					
67 Dimethyl phthalate	163		10.693					
68 2,6-Dinitrotoluene	165		10.783					
69 Acenaphthylene	152		10.821					
70 3-Nitroaniline	138		11.045					
71 Acenaphthene	153		11.083					
72 2,4-Dinitrophenol	184		11.211					149
73 Dibenzofuran	168		11.349					
74 2,4-Dinitrotoluene	165		11.387					
75 4-Nitrophenol	109		11.421					
76 2,3,4,6-Tetrachlorophenol	232		11.563					
78 Diethyl phthalate	149		11.744					9
79 Fluorene	166		11.853					
80 4-Chlorophenyl phenyl ether	204		11.868					
81 4-Nitroaniline	138		11.953					
82 4,6-Dinitro-2-methylphenol	198		11.982					
83 N-Nitrosodiphenylamine	169	12.105	12.048	0.057	83	95556	0.5219	
16 1,2-Diphenylhydrazine	77		12.086					
85 Azobenzene	77		12.086					
86 Benzophenone	105		12.110					
89 4-Bromophenyl phenyl ether	248		12.519					
91 Hexachlorobenzene	284		12.581					9
93 Atrazine	200		12.771					
94 Pentachlorophenol	266		12.852					
97 Phenanthrene	178		13.080					
98 Anthracene	178		13.142					
99 Carbazole	167		13.351					
102 Di-n-butyl phthalate	149	13.770	13.741	0.029	77	107847	0.5614	
104 Fluoranthene	202		14.364					
106 Pyrene	202		14.588					
108 Butyl benzyl phthalate	149		15.196					9

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
109 3,3'-Dichlorobenzidine	252		15.691					
110 Bis(2-ethylhexyl) phthalate	149	15.701	15.696	0.005	94	2438355	17.0	
111 Benzo[a]anthracene	228		15.705					
112 Chrysene	228		15.743					
113 Di-n-octyl phthalate	149		16.238					
114 Benzo[b]fluoranthene	252		16.647					
115 Benzo[k]fluoranthene	252		16.666					
116 Benzo[a]pyrene	252		16.951					
117 Indeno[1,2,3-cd]pyrene	276		18.093					
118 Dibenz(a,h)anthracene	278		18.093					
119 Benzo[g,h,i]perylene	276		18.411					
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
s - Failed ISTD Recovery Test

Review Flags
M - Manually Integrated

TestAmerica Buffalo
Tentatively Identified Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3148.D		
Lims ID:	480-29598-D-7-C	Client ID:	OC-SB-528-0.0/1.0-XXX
Inject. Date:	18-Dec-2012 19:26:30	Dil. Factor:	20.0000
Sample Type:	Client		
Sample ID:	480-0017654-019		
Misc. Info.:			
Operator:	ANM	Instrument ID:	HP5973X
Injection Vol:	1.0 ul	ALS Bottle#:	20
Lims Batch ID:	96347	Lims Sample ID:	19
Detector:	MS SCAN		
Method:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X-8270LL.m		
Last Update:	09-Mar-2013 09:11:13	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:	10		
Process Host:	XAWRK034		
First Level Reviewer: mckernar		Date:	19-Dec-2012 09:09:54

Tentative Identified Compound Results

RT	Response	Amount ng/uL	Quant Cpnd	Qual	Lib Entry	Flags
540-88-5	Acetic acid, 1,1-dimethylethyl ester					
4.144	5022268	17.2	1	72	5493	
123-48-8	3-Heptene, 2,2,4,6,6-pentamethyl-					
9.609	12416109	32.6	2	52	17462	
7756-94-7	1-Propene, 2-methyl-, trimer					
9.666	806697	2.12	2	50	17464	
4390-4-9	Nonane, 2,2,4,4,6,8,8-heptamethyl-					
9.723	7185456	18.9	2	59	112599	
123-48-8	3-Heptene, 2,2,4,6,6-pentamethyl-					
9.766	964154	2.53	2	64	17462	
107-39-1	1-Pentene, 2,4,4-trimethyl-					
9.818	4450947	12.3	3	47	112170	
23069-75-2	1,2,4-Triazolo[4,3-b]pyridazine, 8-methy					
11.991	1161966	3.21	3	59	60389	
1000126-4-1	Styrene, 2-nitro-3'-[4-methylphenyloxy]-					
15.943	3045155	6.24	5	59	93873	
77862-13-6	9,10-Anthracenedione, 1,4-bis(aminomethy					
16.043	6097931	12.5	5	58	95343	
1000126-4-1	Styrene, 2-nitro-3'-[4-methylphenyloxy]-					
16.167	1557151	3.19	5	30	93873	

Quantitation Compounds

Compound	RT	Response	Amount ng/uL

Report Date: 09-Mar-2013 09:11:22 Chrom Revision: 2.0 01-Feb-2013 10:03:10
Data File: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3148.D

Compound	RT	Response	Amount ng/uL
* 1 1,4-Dichlorobenzene-d4	6.541	1463615	5.00
* 2 Naphthalene-d8	8.458	1904447	5.00
* 3 Acenaphthene-d10	11.088	1812385	5.00
* 5 Chrysene-d12	15.724	2438205	5.00

QC Flag Legend

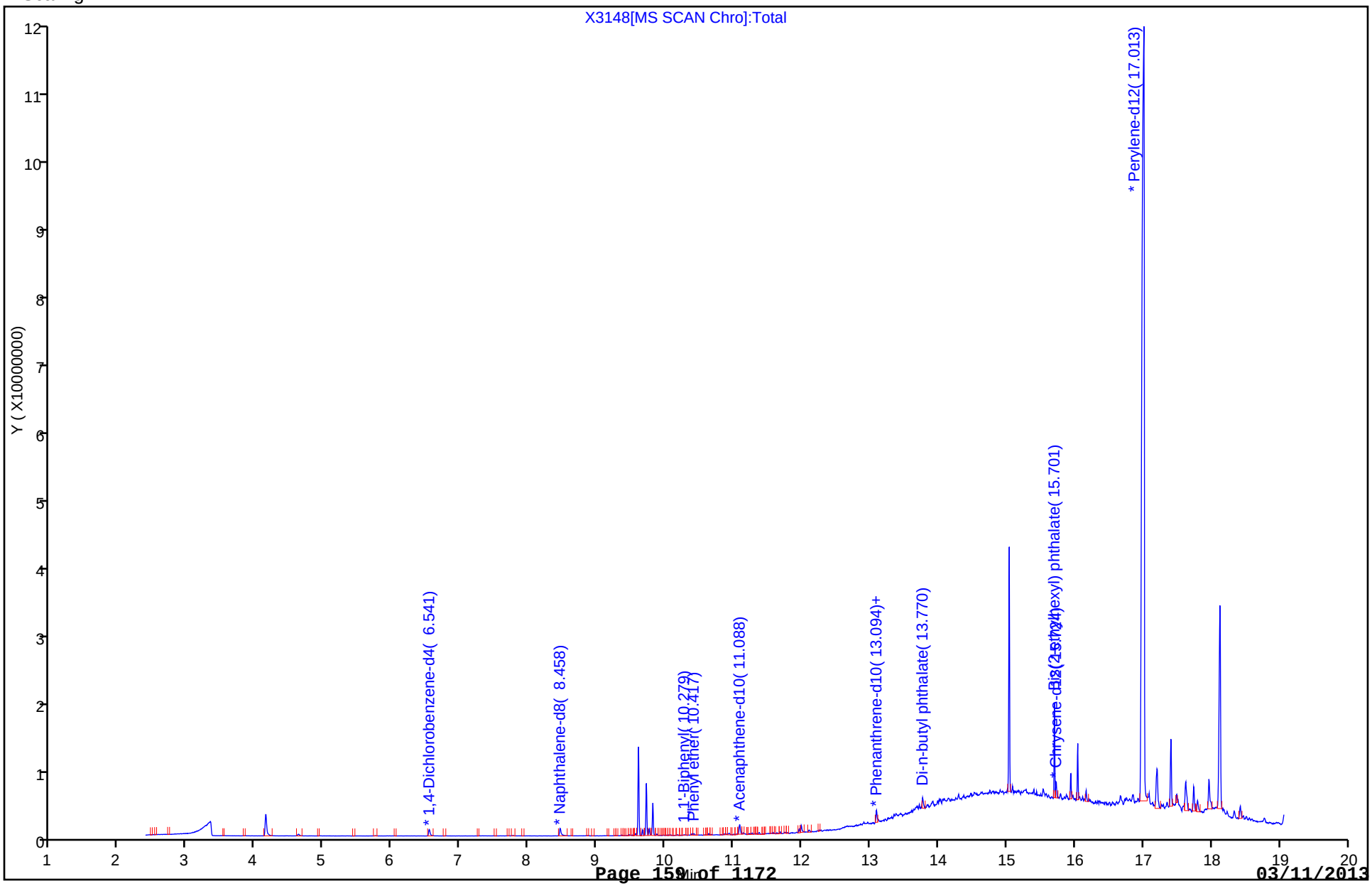
Processing Flags

Report Date: 09-Mar-2013 09:11:22 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3148.D		
Injection Date:	18-Dec-2012 19:26:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-528-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	19
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Y Scaling:

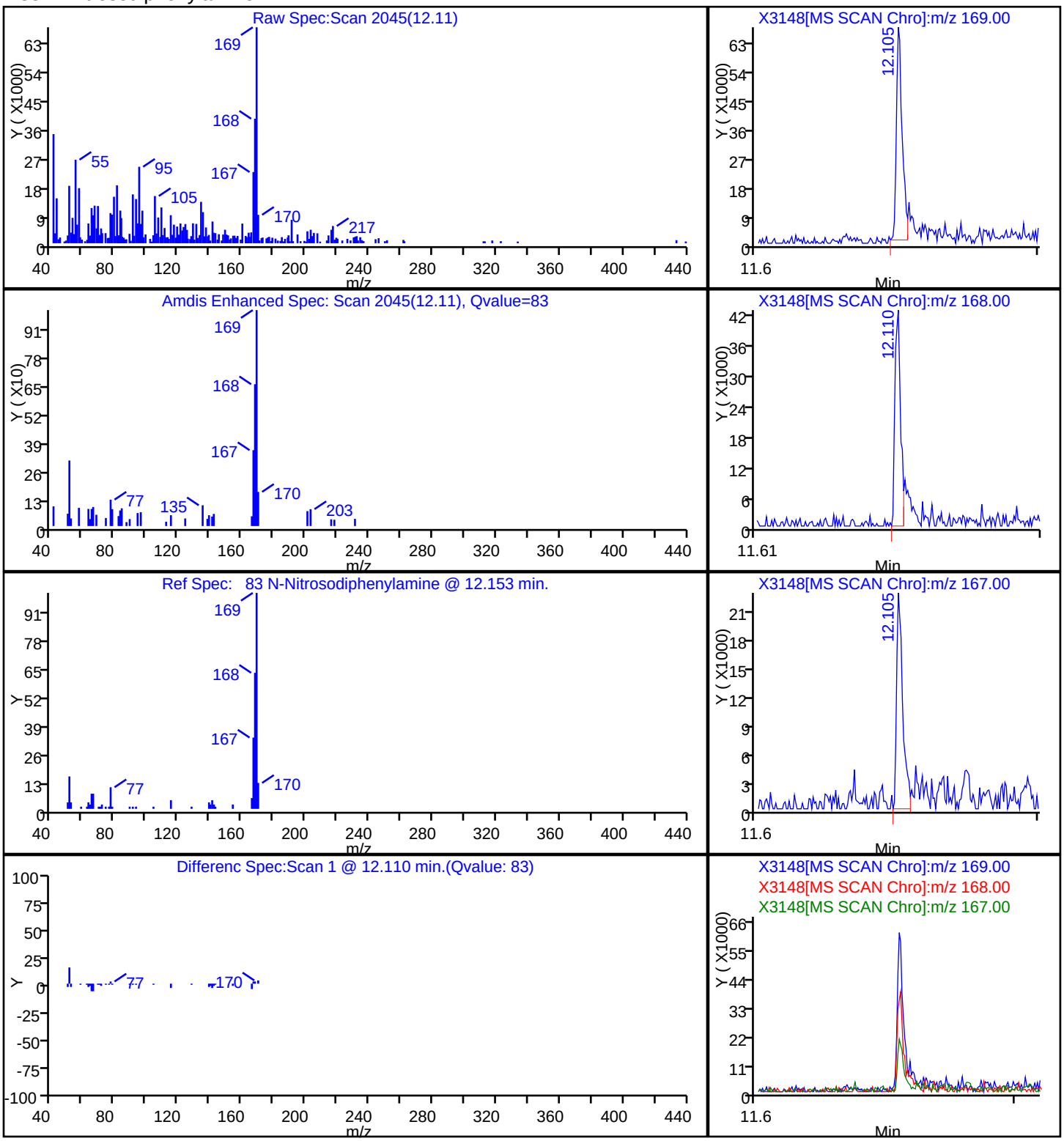


Report Date: 09-Mar-2013 09:11:23 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3148.D		
Injection Date:	18-Dec-2012 19:26:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-528-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	19
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

83 N-Nitrosodiphenylamine

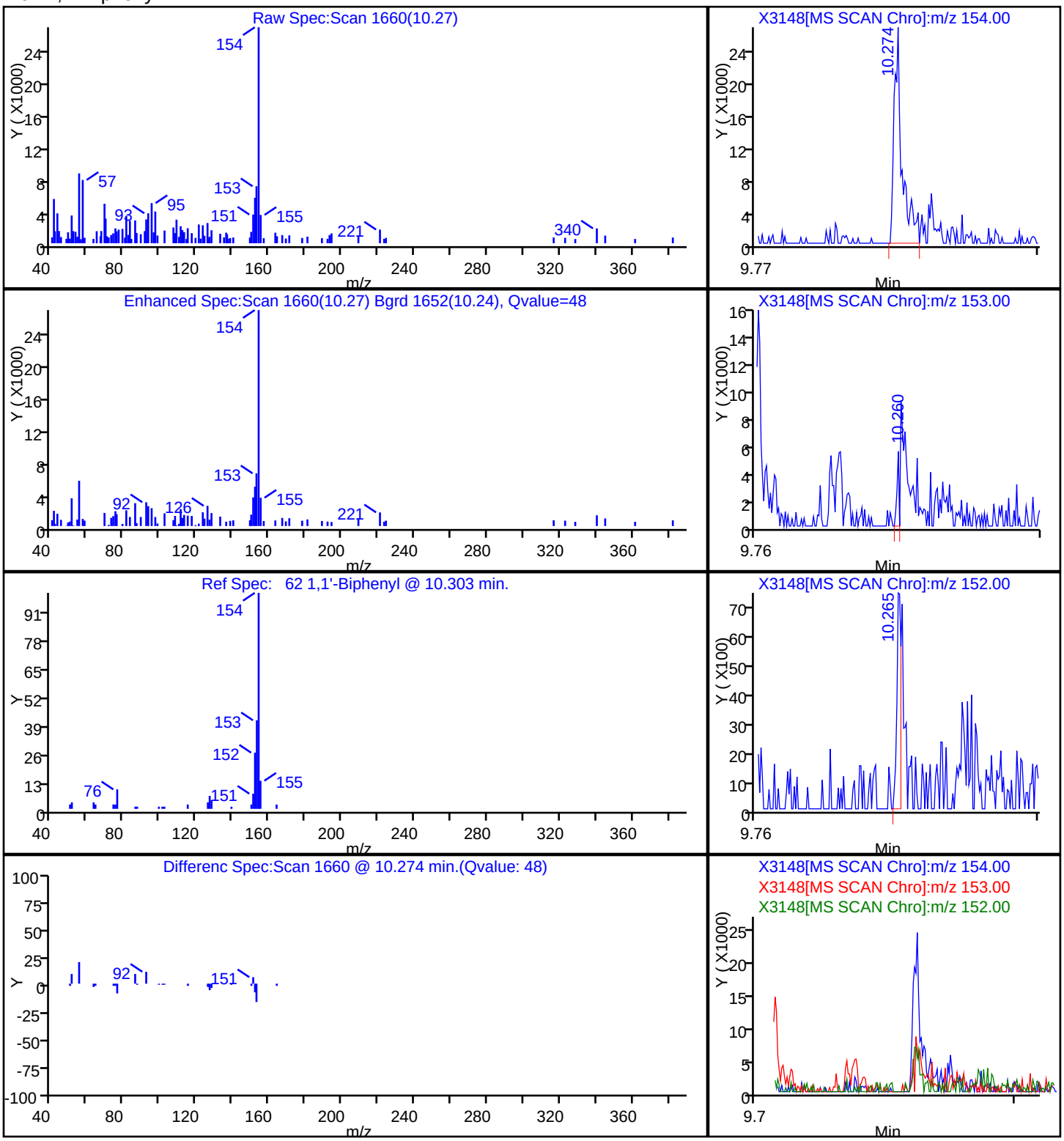


Report Date: 09-Mar-2013 09:11:22 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3148.D		
Injection Date:	18-Dec-2012 19:26:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-528-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	19
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

62 1,1'-Biphenyl

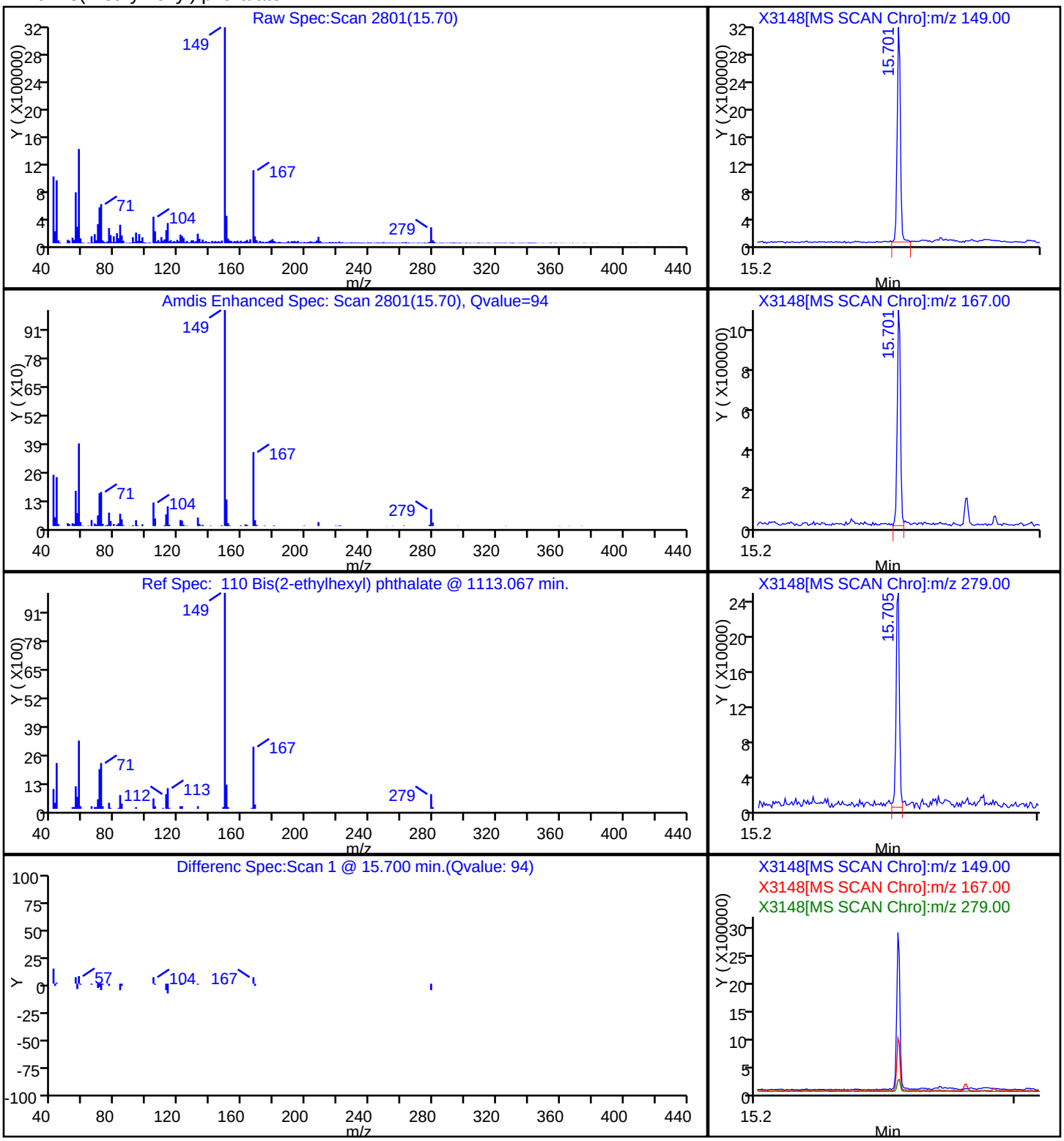


Report Date: 09-Mar-2013 09:11:23 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3148.D		
Injection Date:	18-Dec-2012 19:26:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-528-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	19
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

110 Bis(2-ethylhexyl) phthalate

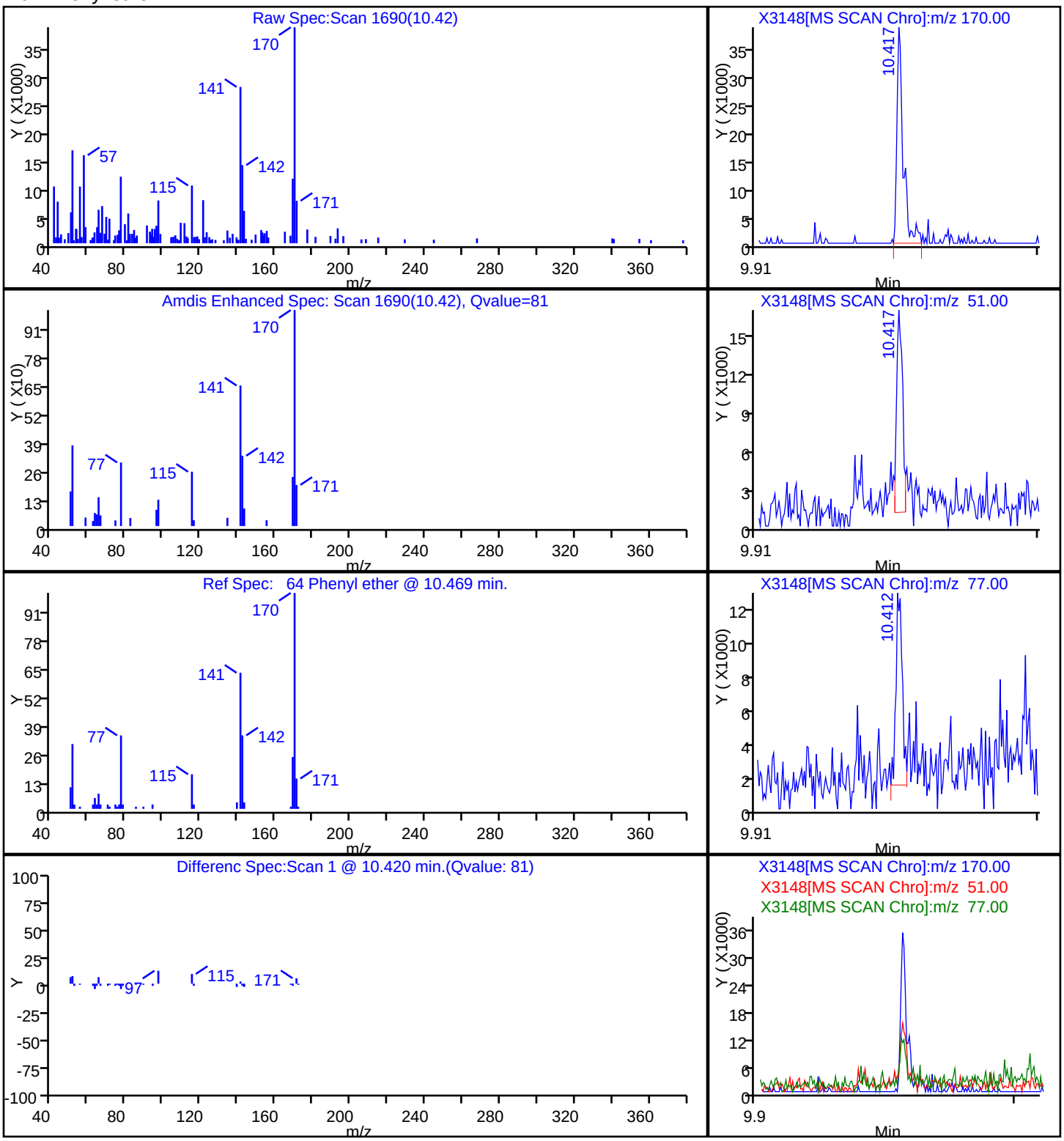


Report Date: 09-Mar-2013 09:11:22 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3148.D		
Injection Date:	18-Dec-2012 19:26:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-528-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	19
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

64 Phenyl ether



Manual Integration/User Assign Peak Report

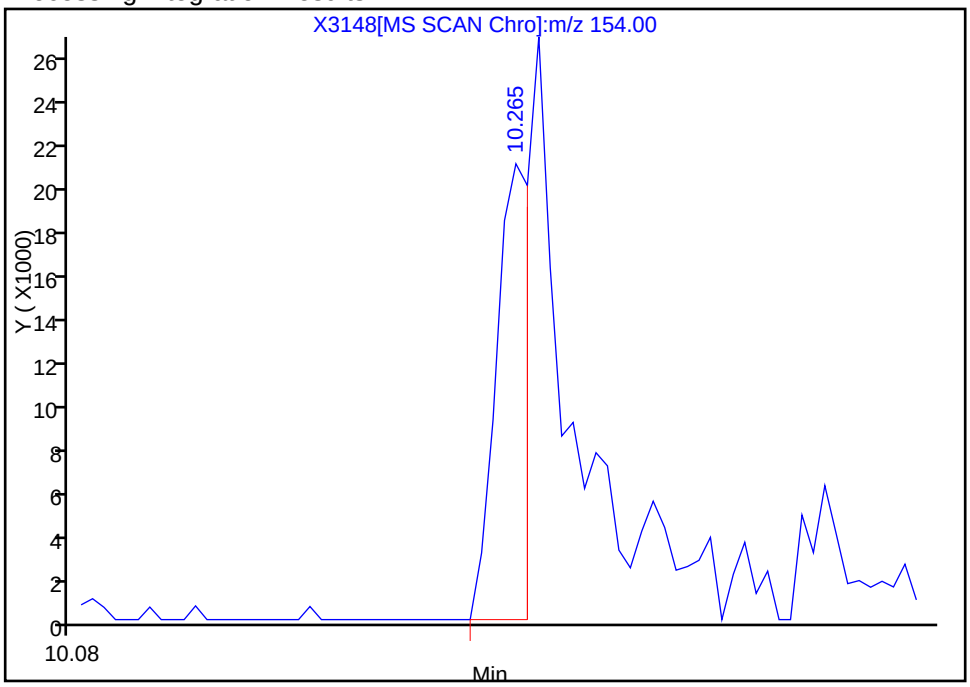
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3148.D		
Injection Date:	18-Dec-2012 19:26:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-528-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	19
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: 10.20

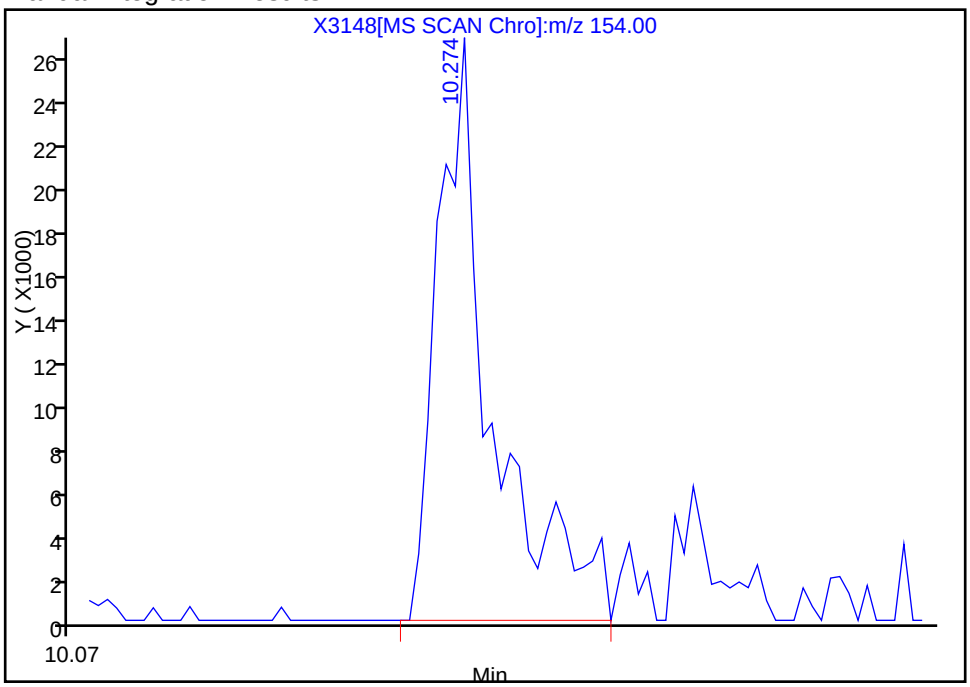
Processing Integration Results

RT: 10.26
Response: 20416
Amount: 0.139353



Manual Integration Results

RT: 10.27
Response: 52312
Amount: 0.382826



Reviewer: mckernar, 19-Dec-2012 09:14:13
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

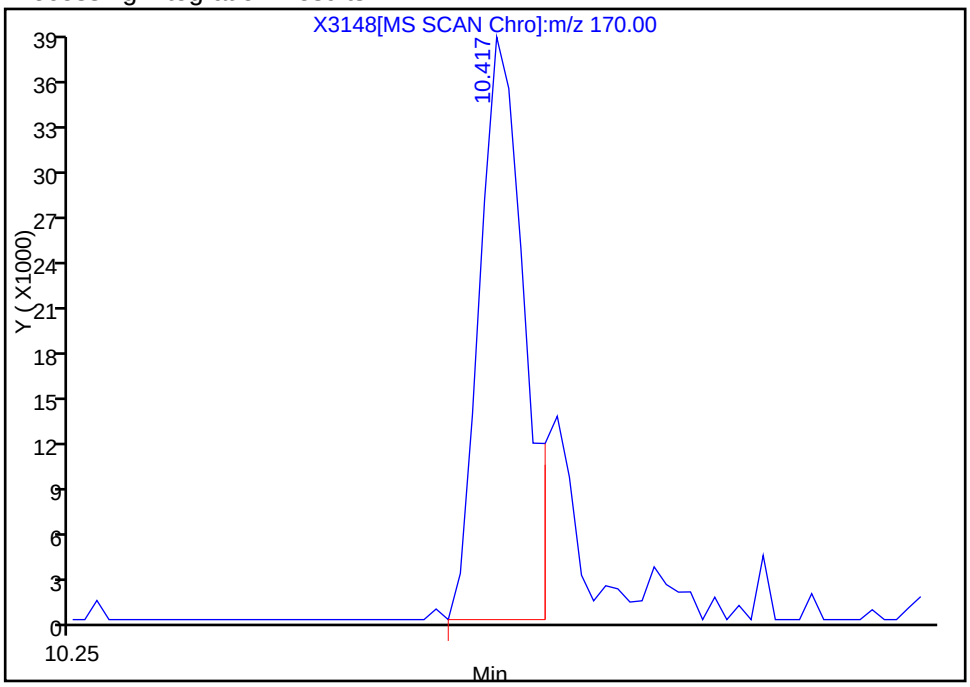
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3148.D		
Injection Date:	18-Dec-2012 19:26:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-528-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	19
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: 10.36

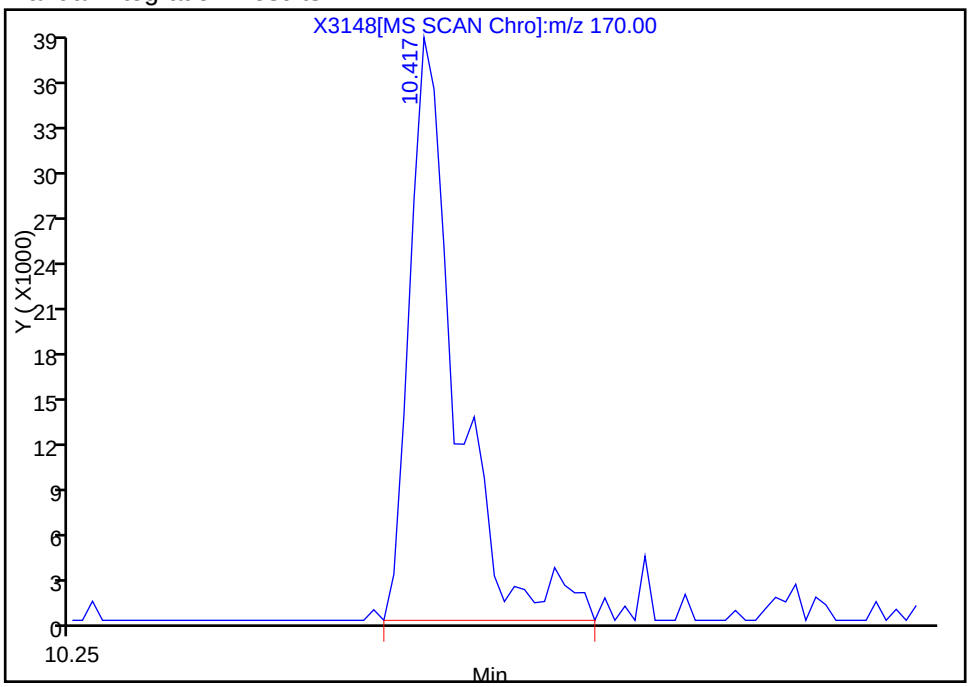
Processing Integration Results

RT: 10.42
Response: 46756
Amount: 0.610360



Manual Integration Results

RT: 10.42
Response: 58952
Amount: 0.793279



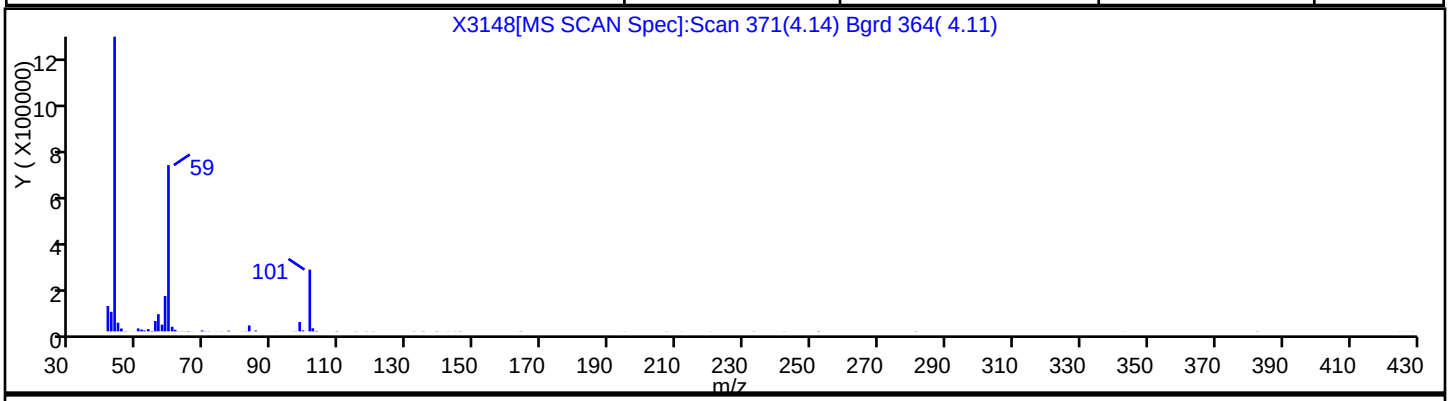
Reviewer: mckernar, 19-Dec-2012 09:14:13
Audit Action: Manually Integrated
Audit Reason: Split Peak

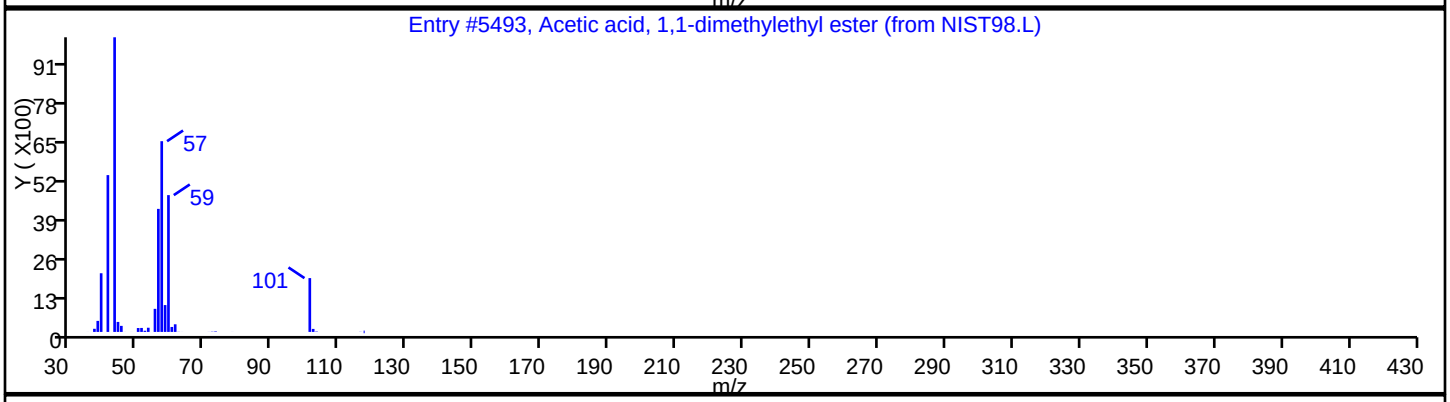
Report Date: 09-Mar-2013 09:11:23 Chrom Revision: 2.0 01-Feb-2013 10:03:10

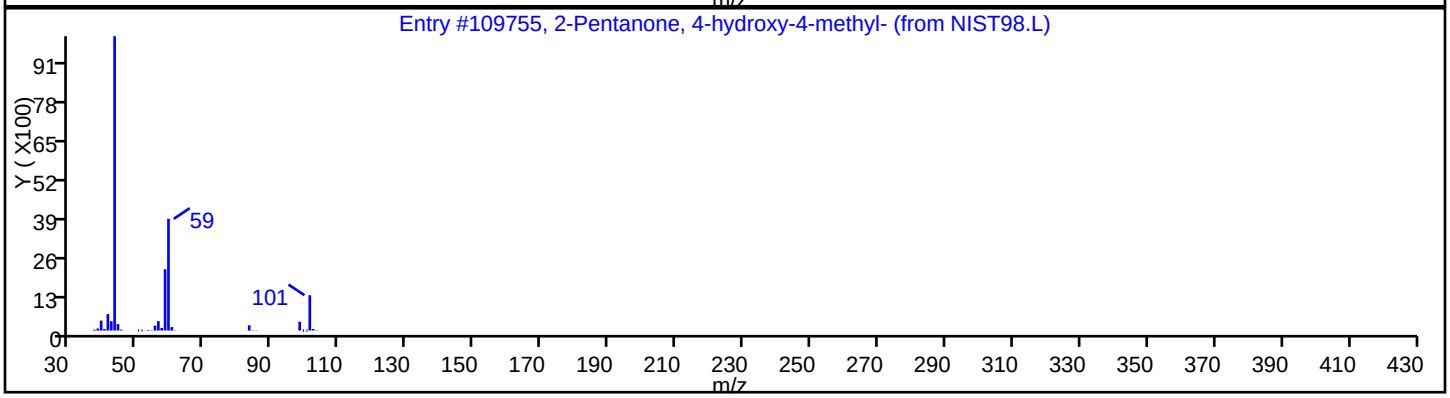
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3148.D		
Injection Date:	18-Dec-2012 19:26:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-528-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	19
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
Acetic acid, 1,1-dimethylethyl ester	540-88-5	NIST98.L	5493	72
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST98.L	109755	72





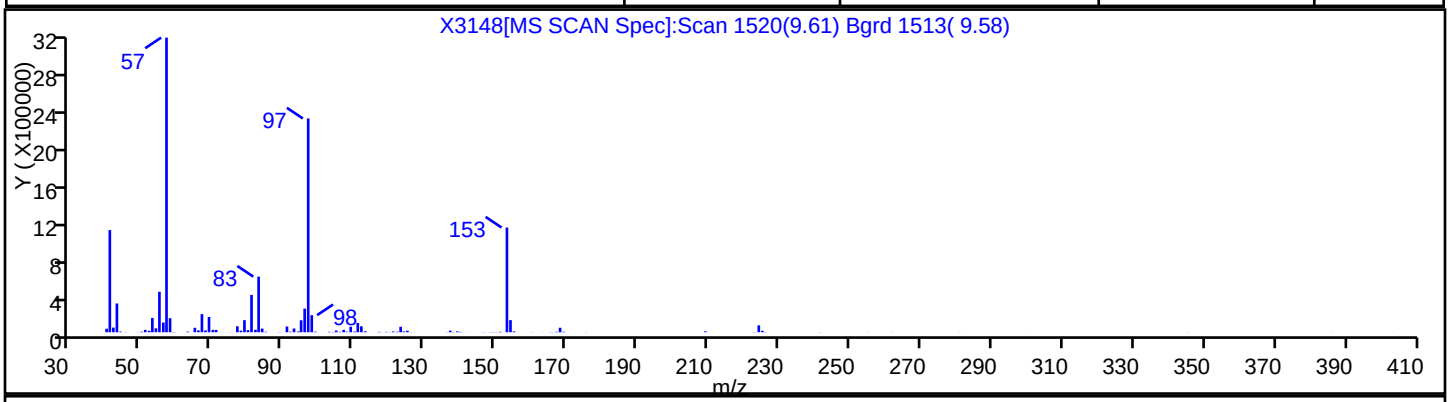


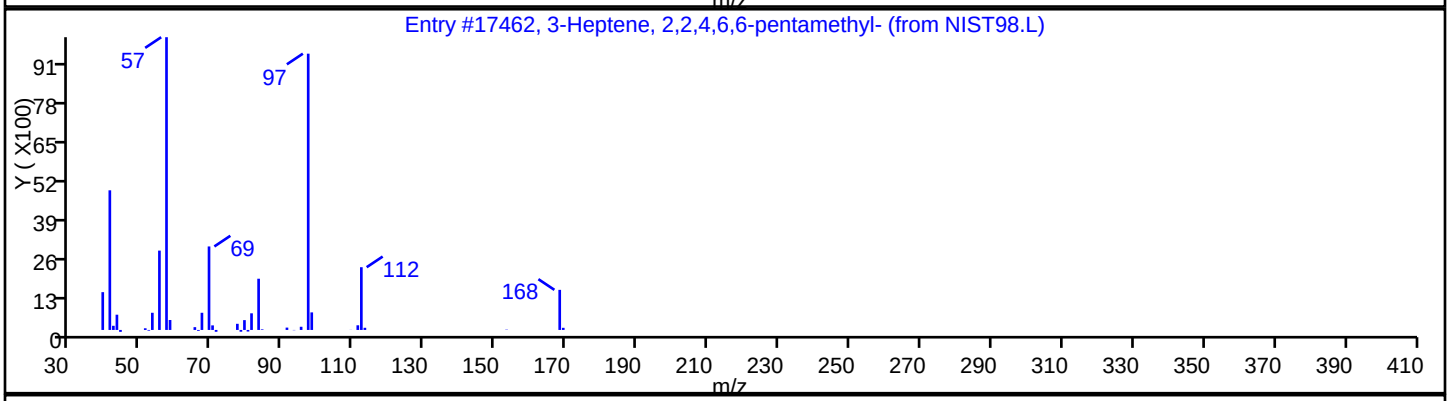
Report Date: 09-Mar-2013 09:11:23 Chrom Revision: 2.0 01-Feb-2013 10:03:10

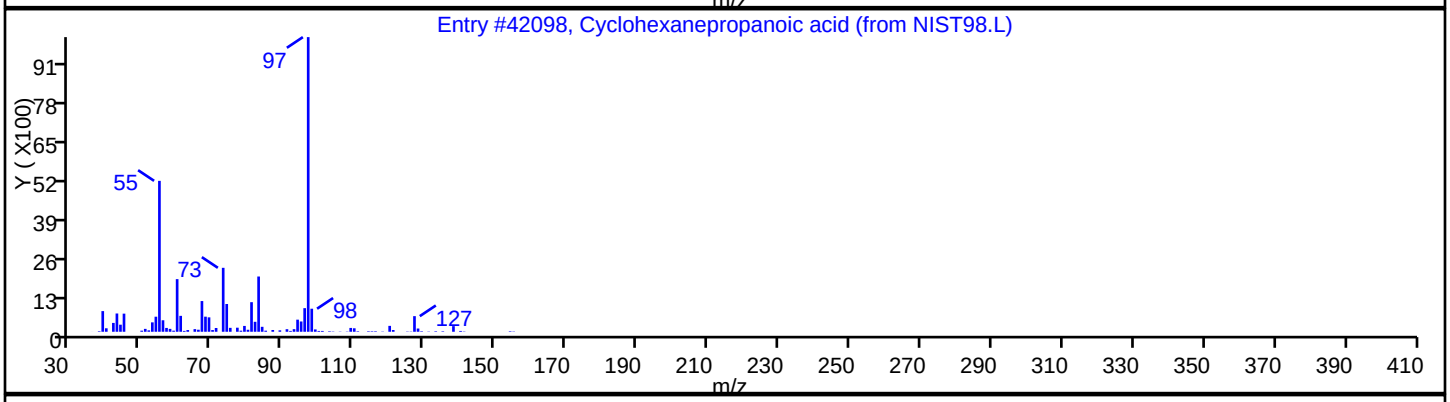
TestAmerica Buffalo

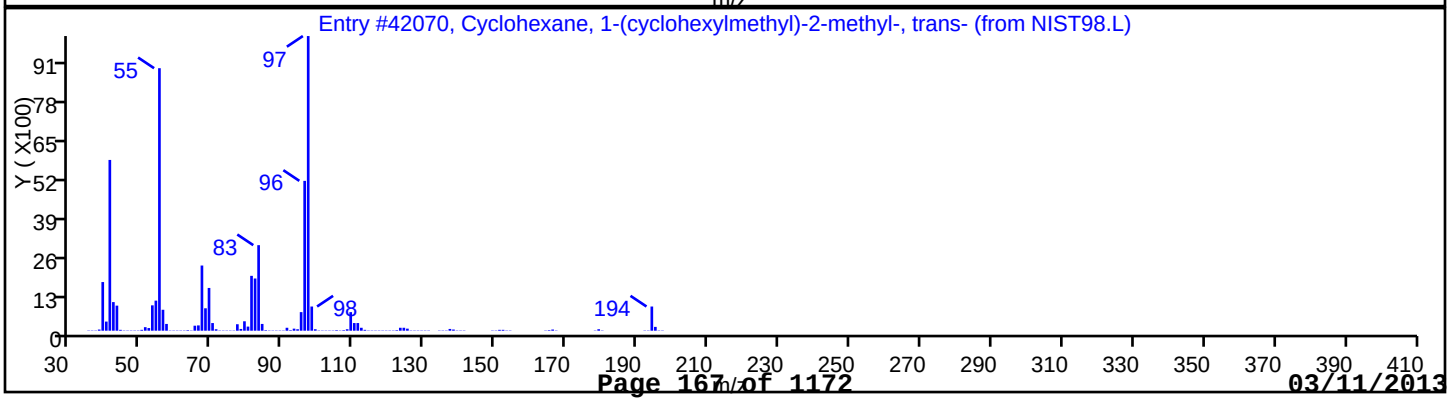
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3148.D		
Injection Date:	18-Dec-2012 19:26:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-528-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	19
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
3-Heptene, 2,2,4,6,6-pentamethyl-	123-48-8	NIST98.L	17462	52
Cyclohexanepropanoic acid	701-97-3	NIST98.L	42098	38
Cyclohexane, 1-(cyclohexylmethyl)-2-meth	54823-94-8	NIST98.L	42070	37







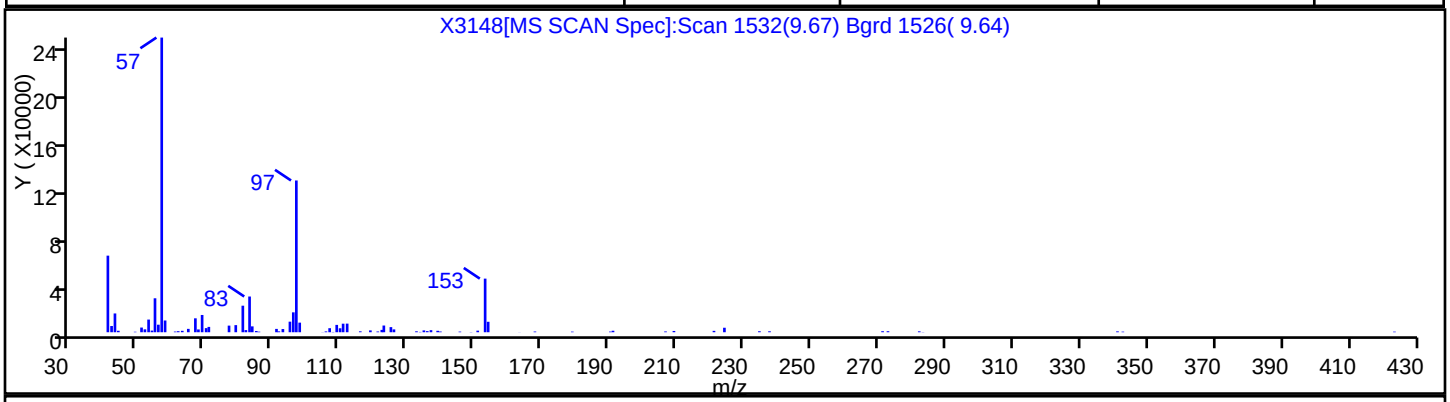


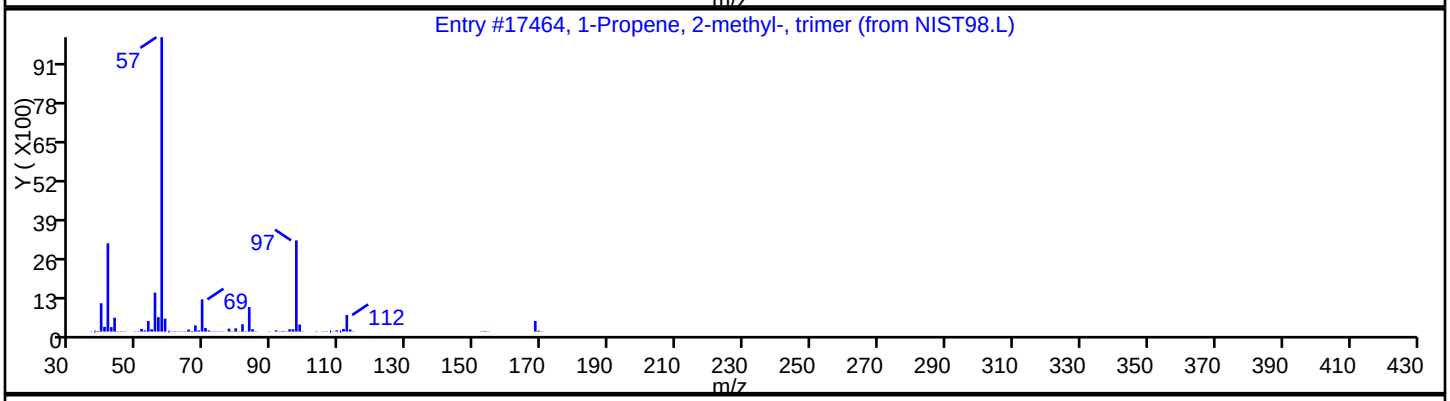
Report Date: 09-Mar-2013 09:11:23 Chrom Revision: 2.0 01-Feb-2013 10:03:10

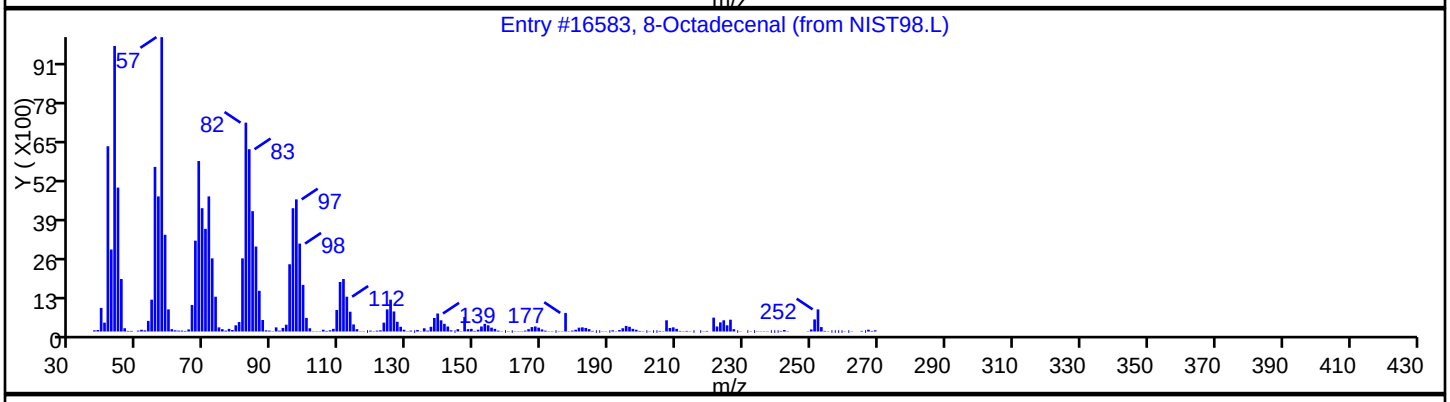
TestAmerica Buffalo

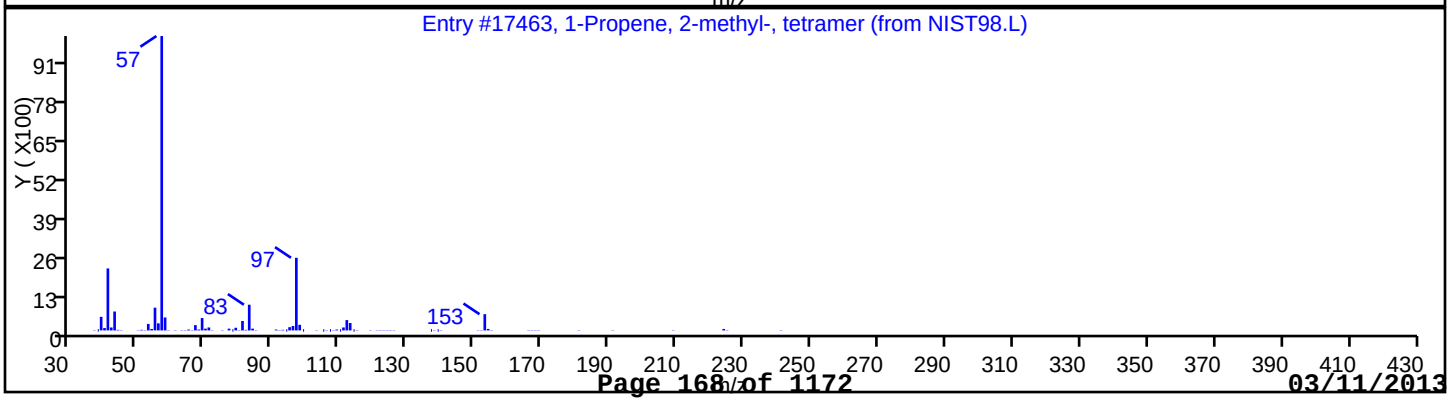
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3148.D		
Injection Date:	18-Dec-2012 19:26:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-528-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	19
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
1-Propene, 2-methyl-, trimer	7756-94-7	NIST98.L	17464	50
8-Octadecenal	56554-94-0	NIST98.L	16583	40
1-Propene, 2-methyl-, tetramer	15220-85-6	NIST98.L	17463	38







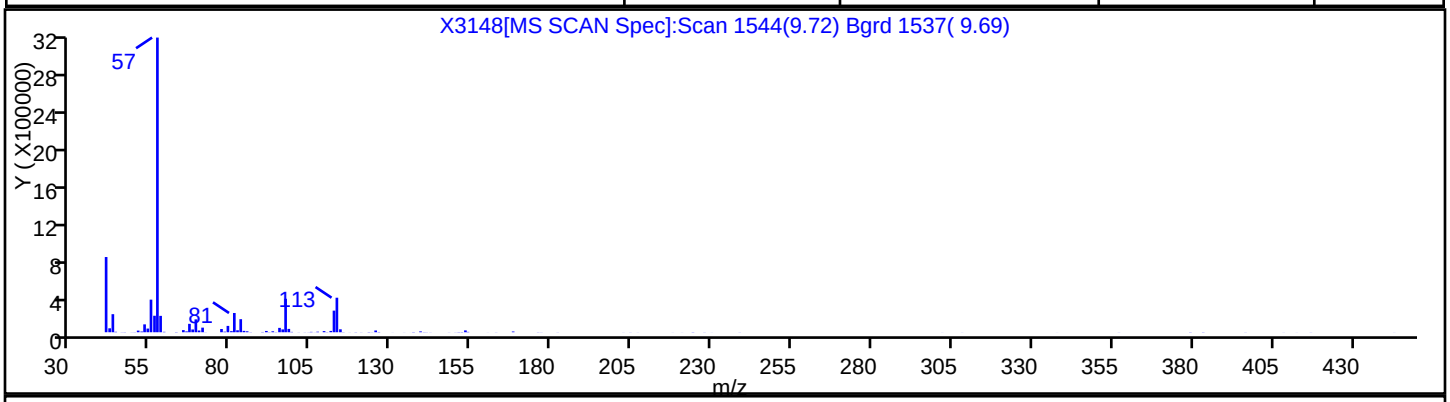


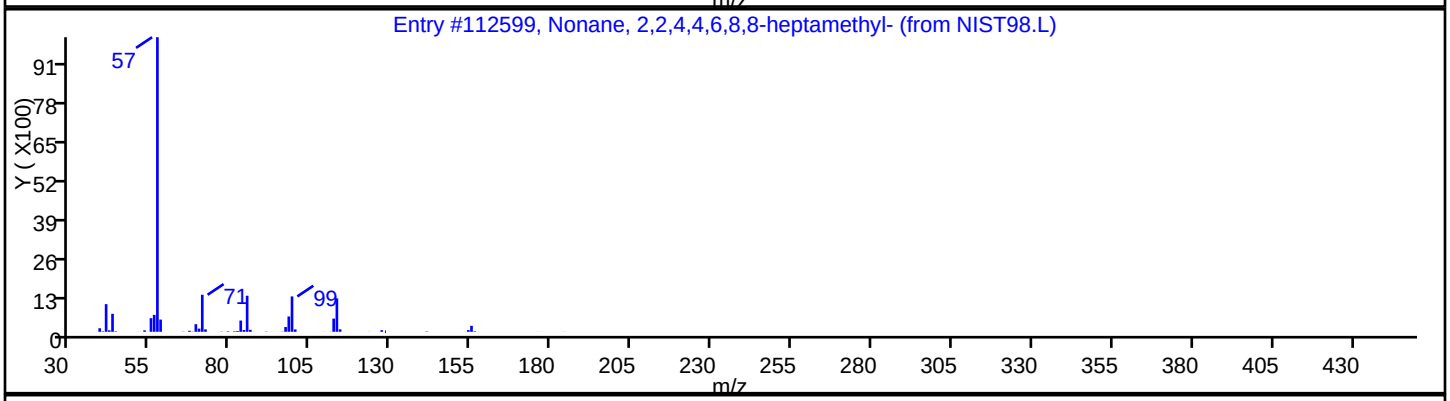
Report Date: 09-Mar-2013 09:11:23 Chrom Revision: 2.0 01-Feb-2013 10:03:10

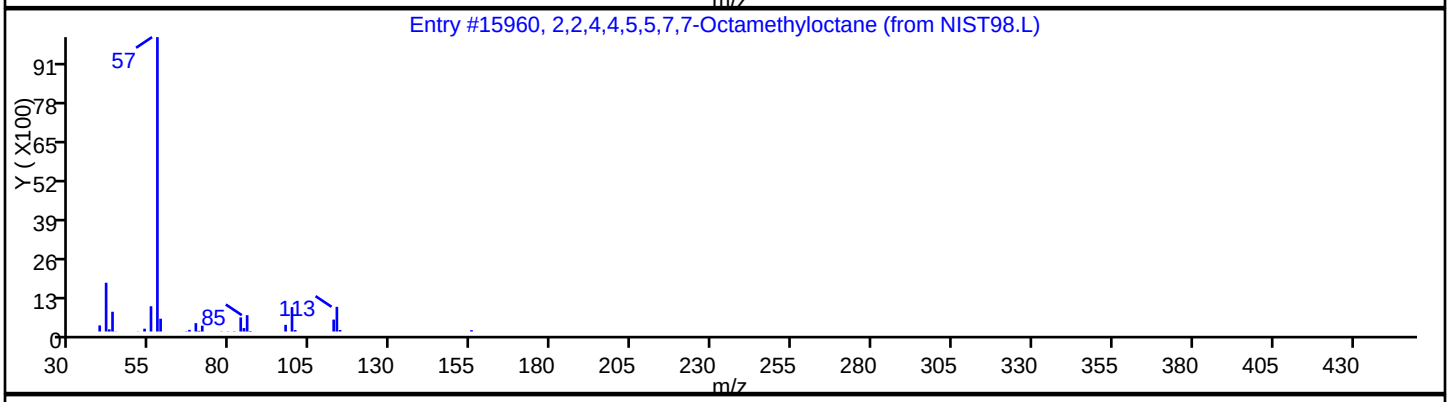
TestAmerica Buffalo

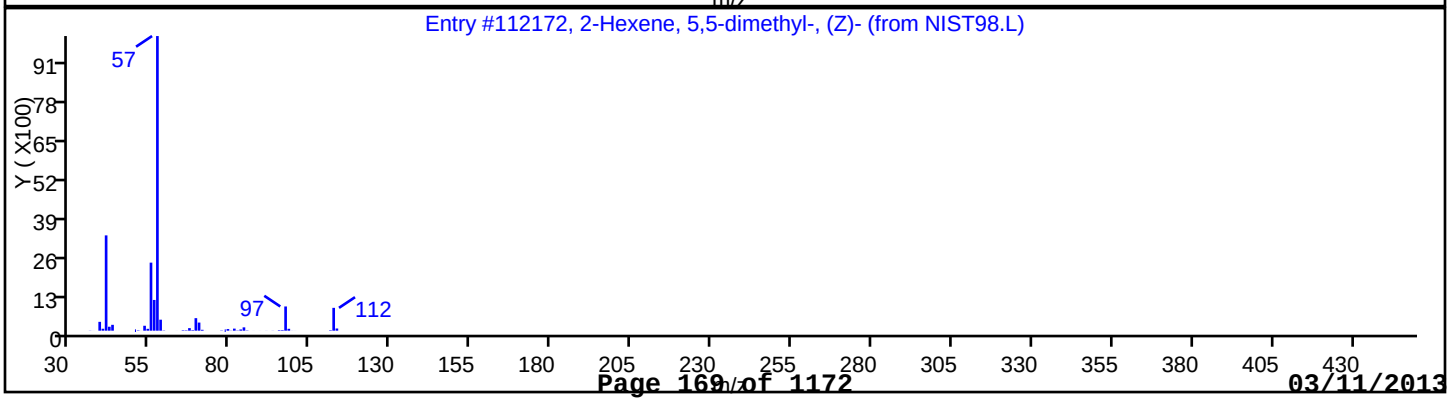
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3148.D		
Injection Date:	18-Dec-2012 19:26:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-528-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	19
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Nonane, 2,2,4,4,6,8,8-heptamethyl-	4390-4-9	NIST98.L	112599	59
2,2,4,4,5,5,7,7-Octamethyloctane	5171-85-7	NIST98.L	15960	59
2-Hexene, 5,5-dimethyl-, (Z)-	39761-61-0	NIST98.L	112172	47







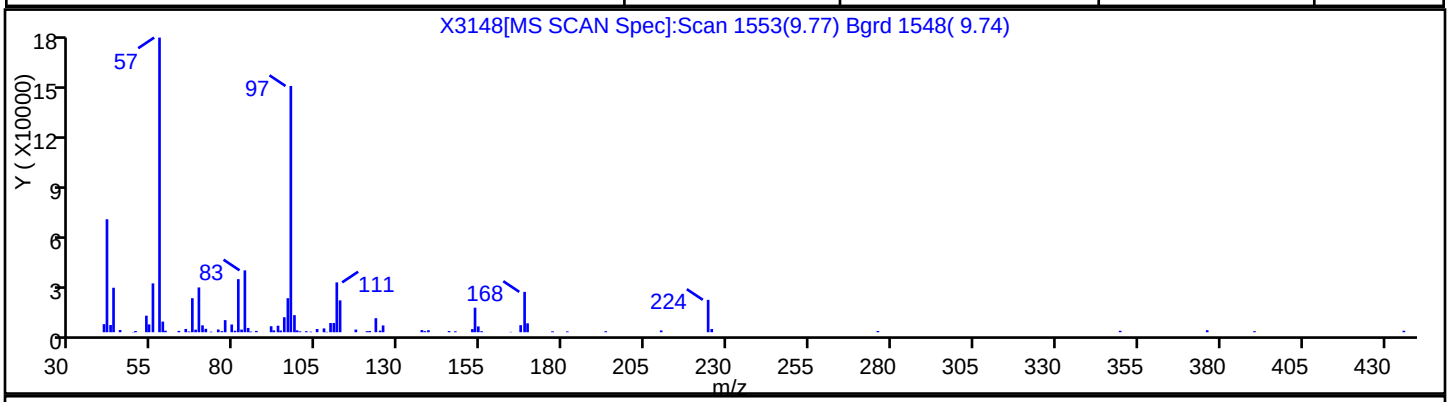


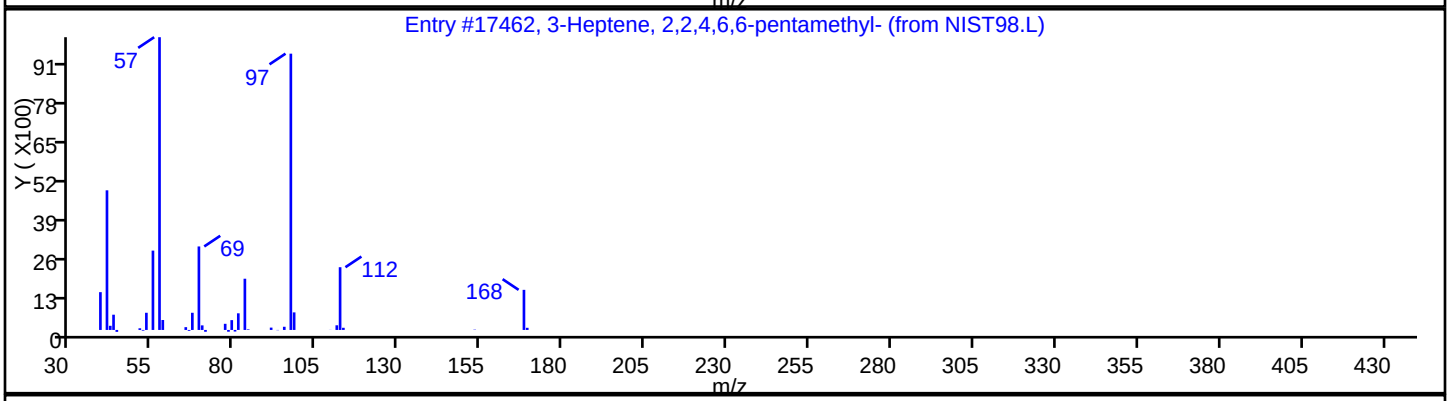
Report Date: 09-Mar-2013 09:11:23 Chrom Revision: 2.0 01-Feb-2013 10:03:10

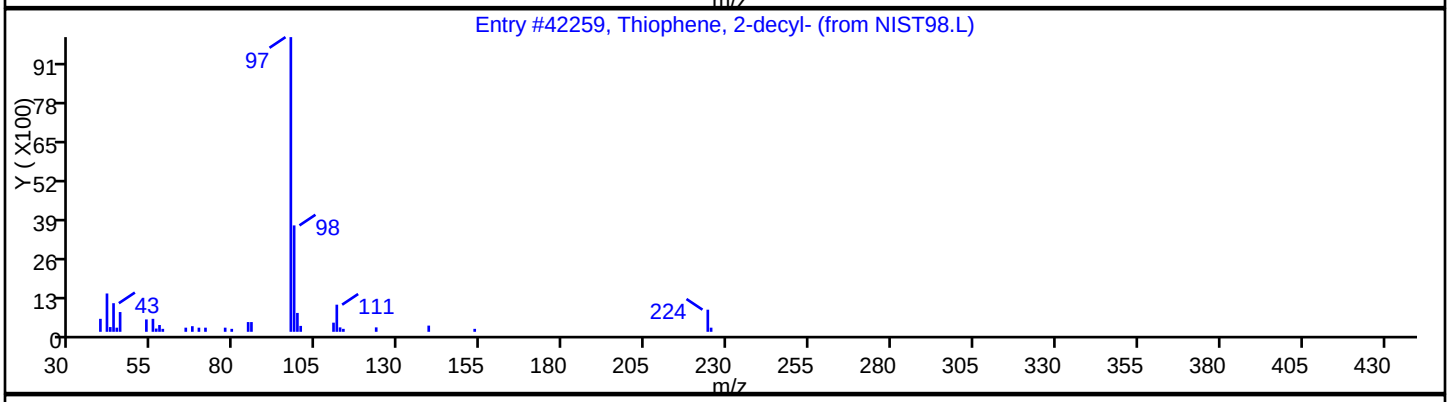
TestAmerica Buffalo

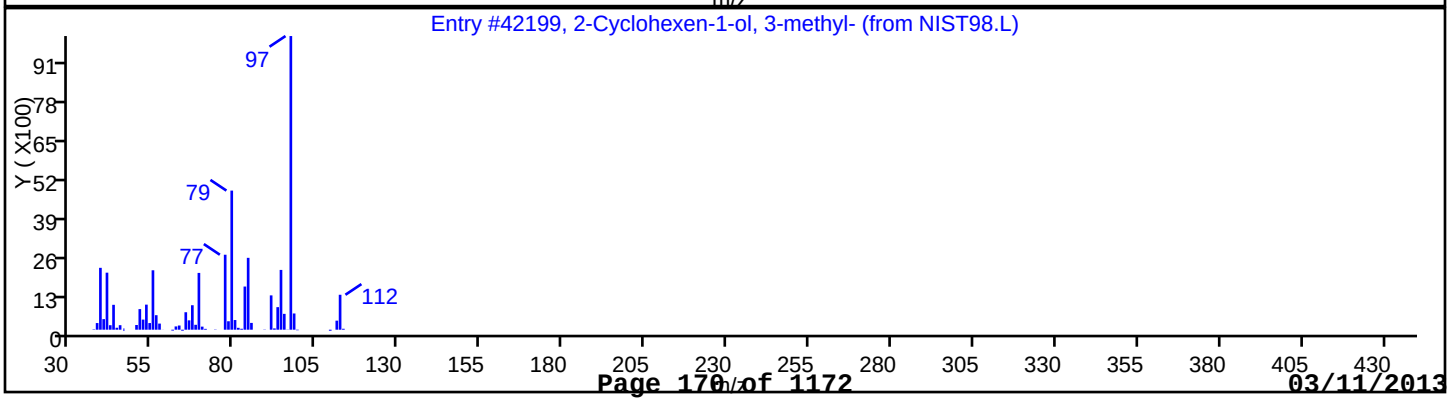
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3148.D		
Injection Date:	18-Dec-2012 19:26:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-528-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	19
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
3-Heptene, 2,2,4,6,6-pentamethyl-	123-48-8	NIST98.L	17462	64
Thiophene, 2-decyl-	24769-39-9	NIST98.L	42259	43
2-Cyclohexen-1-ol, 3-methyl-	21378-21-2	NIST98.L	42199	43







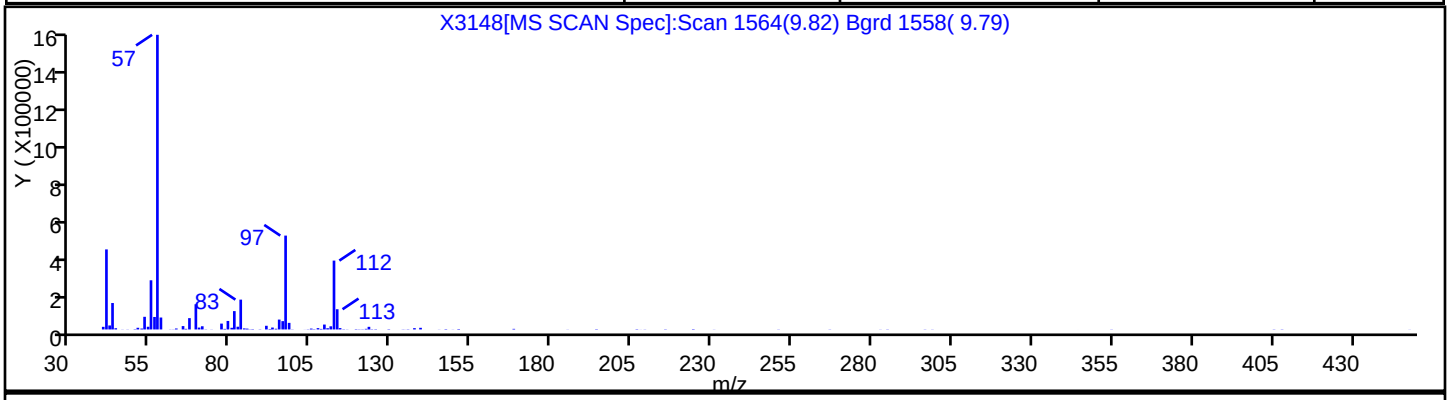


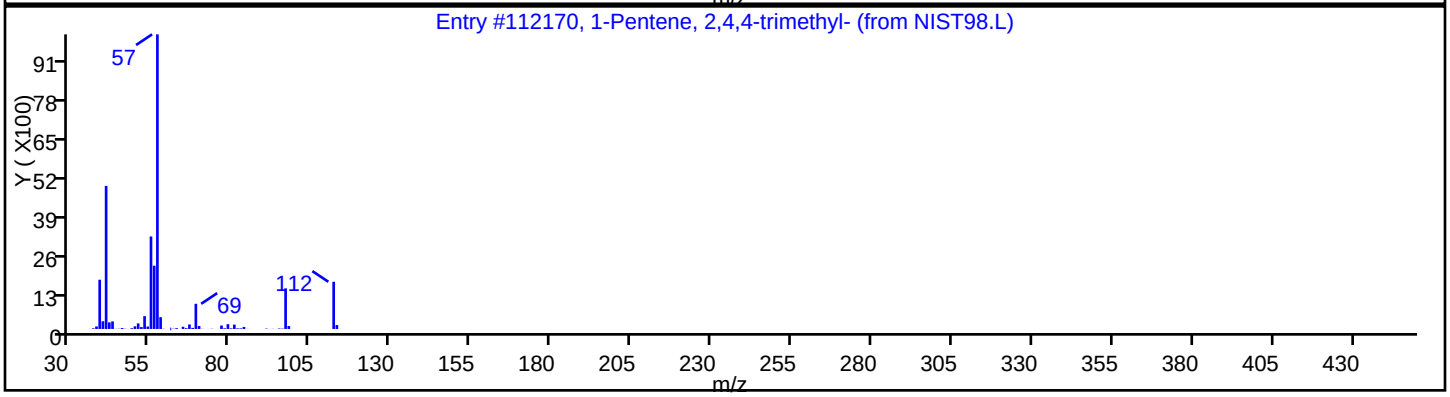
Report Date: 09-Mar-2013 09:11:23 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3148.D		
Injection Date:	18-Dec-2012 19:26:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-528-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	19
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-Pentene, 2,4,4-trimethyl-	107-39-1	NIST98.L	112170	47



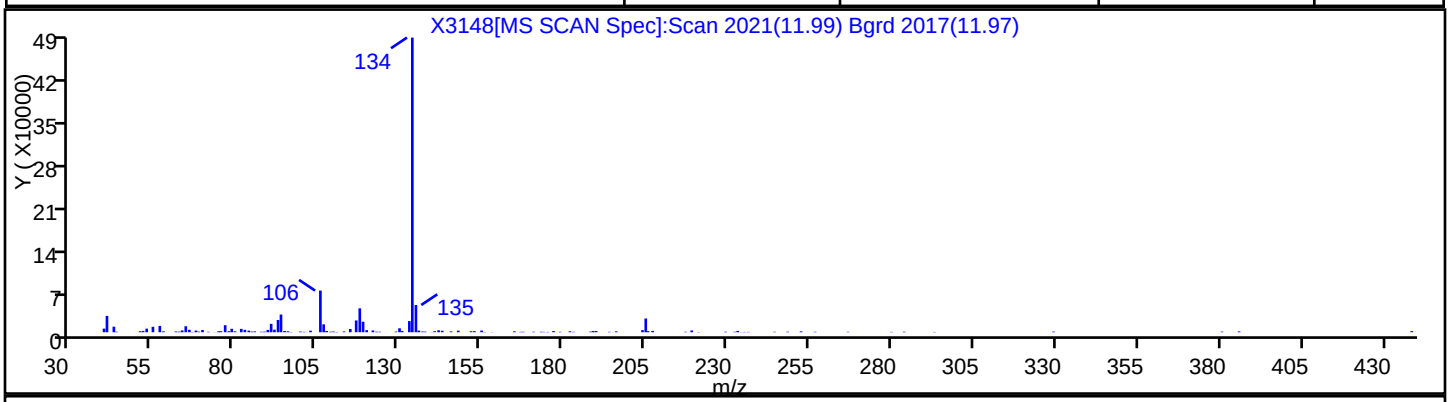


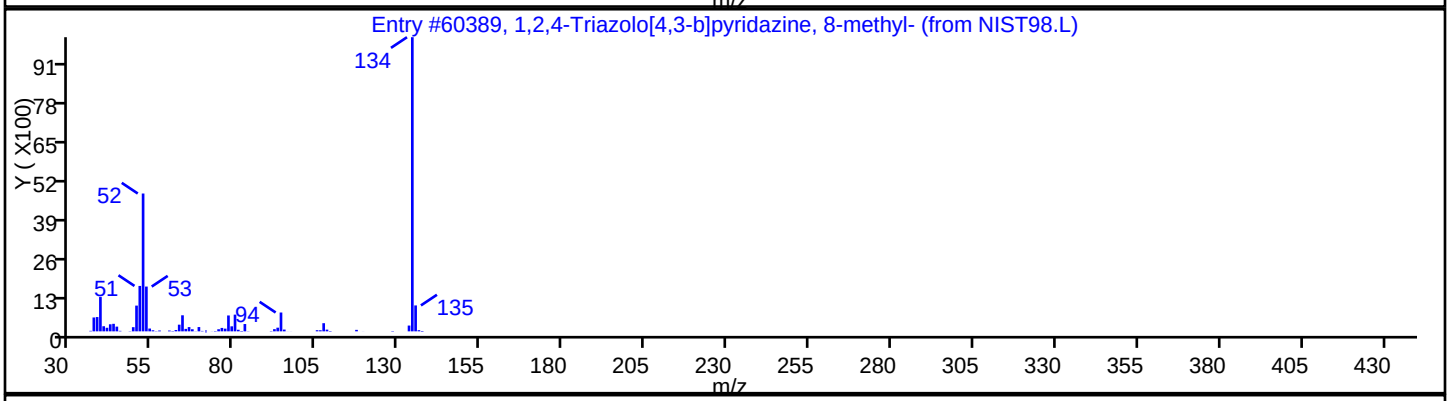
Report Date: 09-Mar-2013 09:11:23 Chrom Revision: 2.0 01-Feb-2013 10:03:10

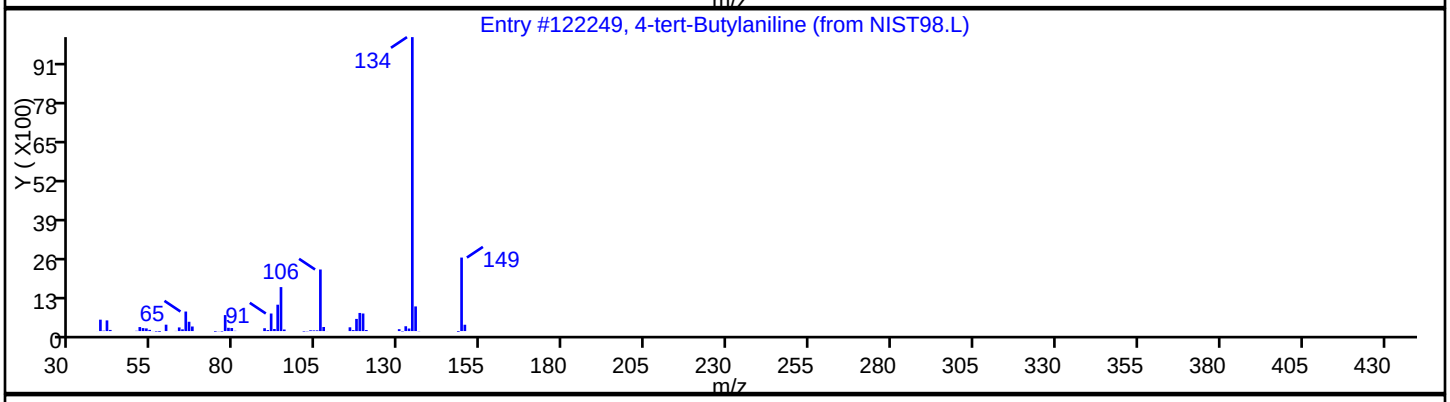
TestAmerica Buffalo

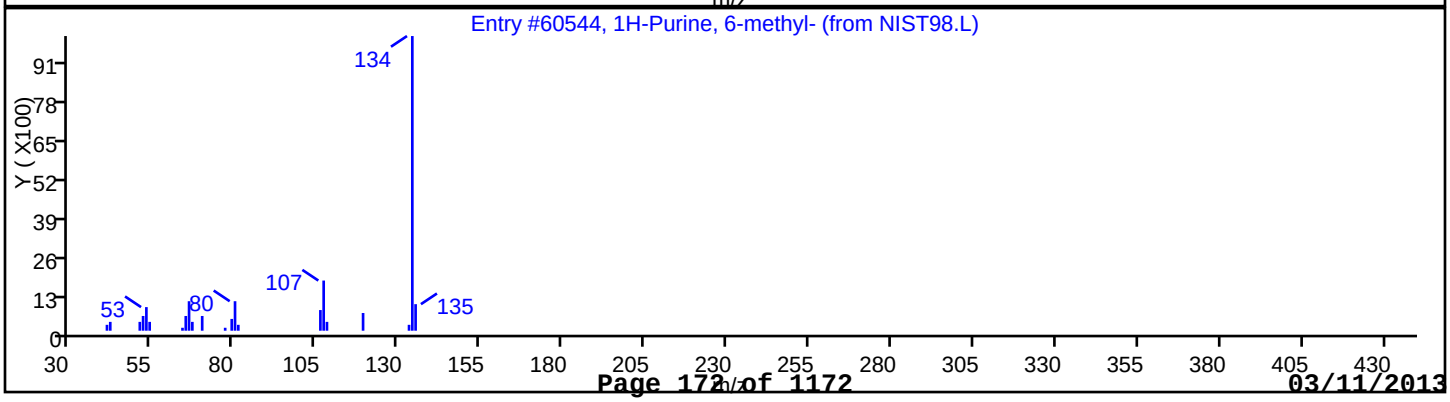
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3148.D		
Injection Date:	18-Dec-2012 19:26:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-528-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	19
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
1,2,4-Triazolo[4,3-b]pyridazine, 8-methy	23069-75-2	NIST98.L	60389	59
4-tert-Butylaniline	769-92-6	NIST98.L	122249	59
1H-Purine, 6-methyl-	2004-3-7	NIST98.L	60544	45







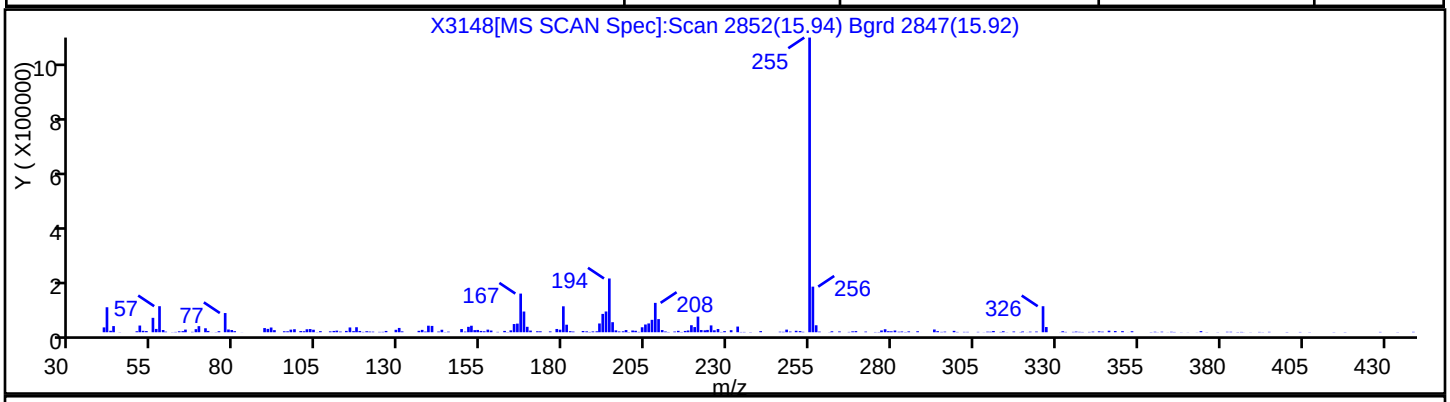


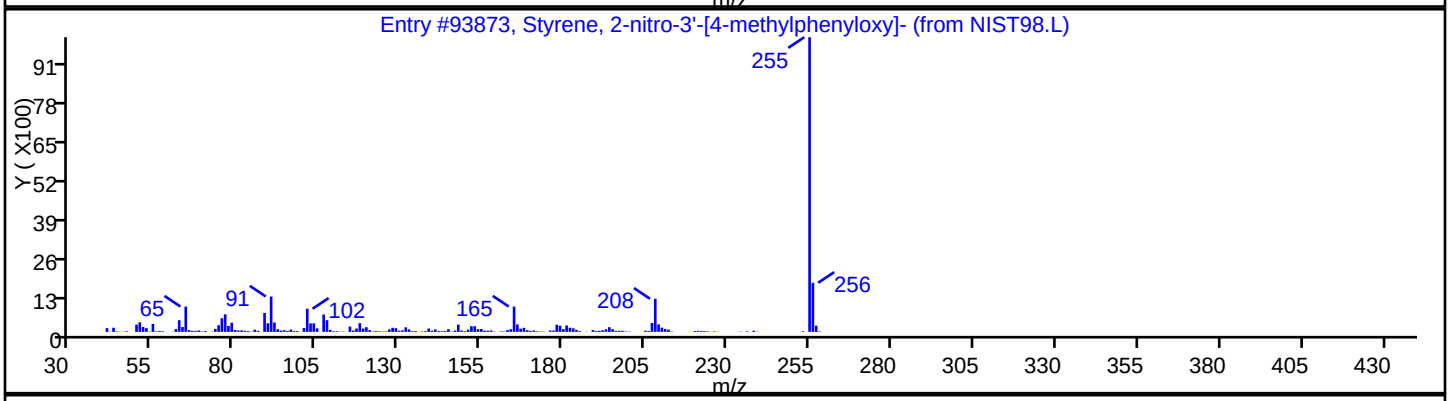
Report Date: 09-Mar-2013 09:11:23 Chrom Revision: 2.0 01-Feb-2013 10:03:10

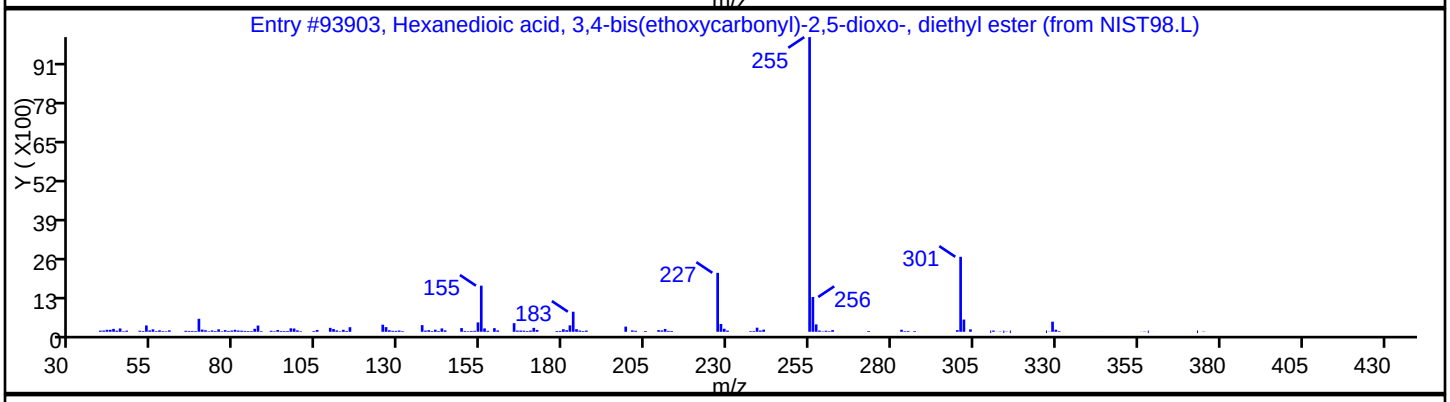
TestAmerica Buffalo

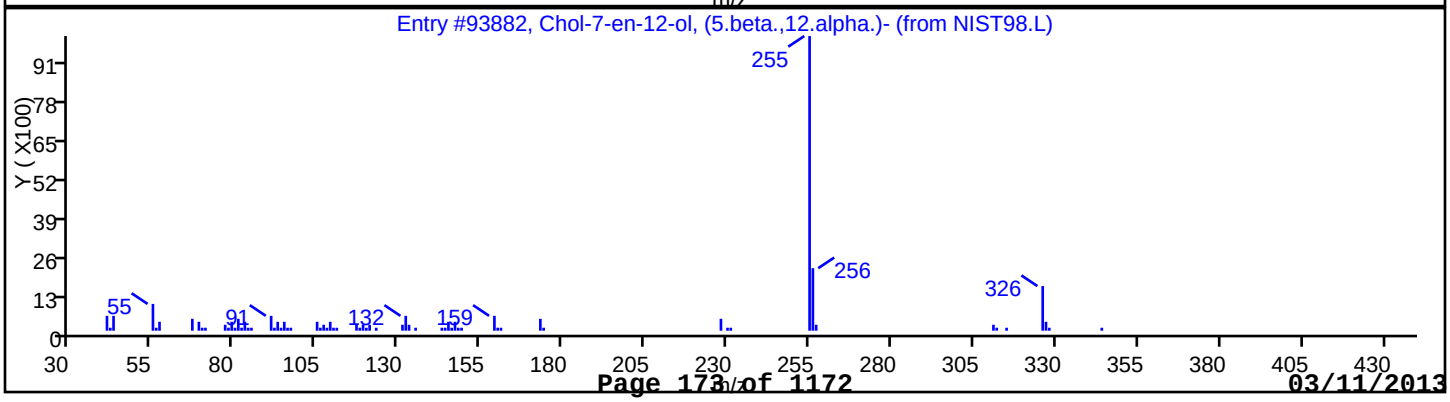
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3148.D		
Injection Date:	18-Dec-2012 19:26:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-528-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	19
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Styrene, 2-nitro-3'-[4-methylphenyloxy]-	1000126-4-1	NIST98.L	93873	59
Hexanedioic acid, 3,4-bis(ethoxycarbonyl	1000196-56-7	NIST98.L	93903	33
Chol-7-en-12-ol, (5.beta.,12.alpha.)-	54411-73-3	NIST98.L	93882	16







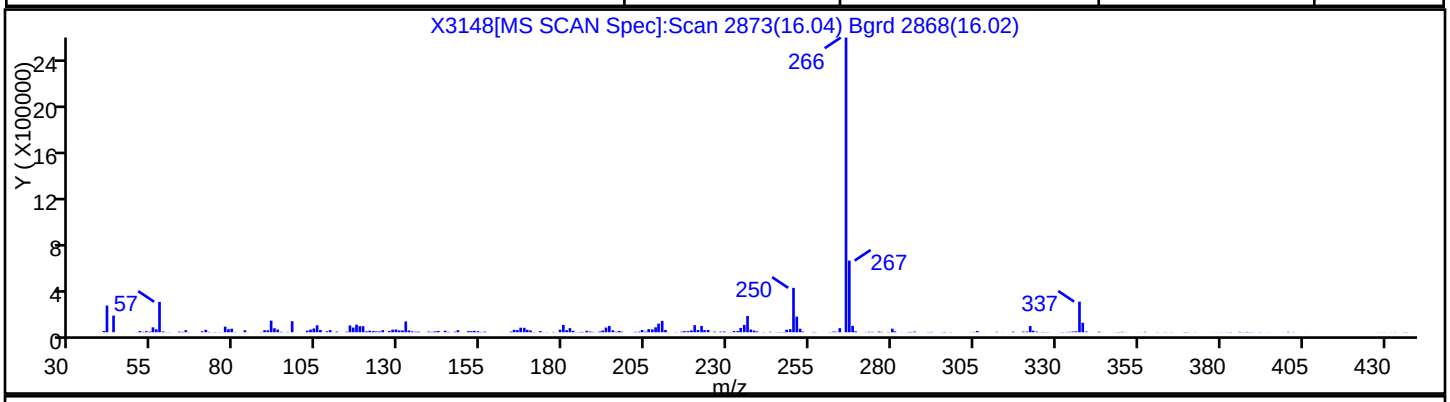


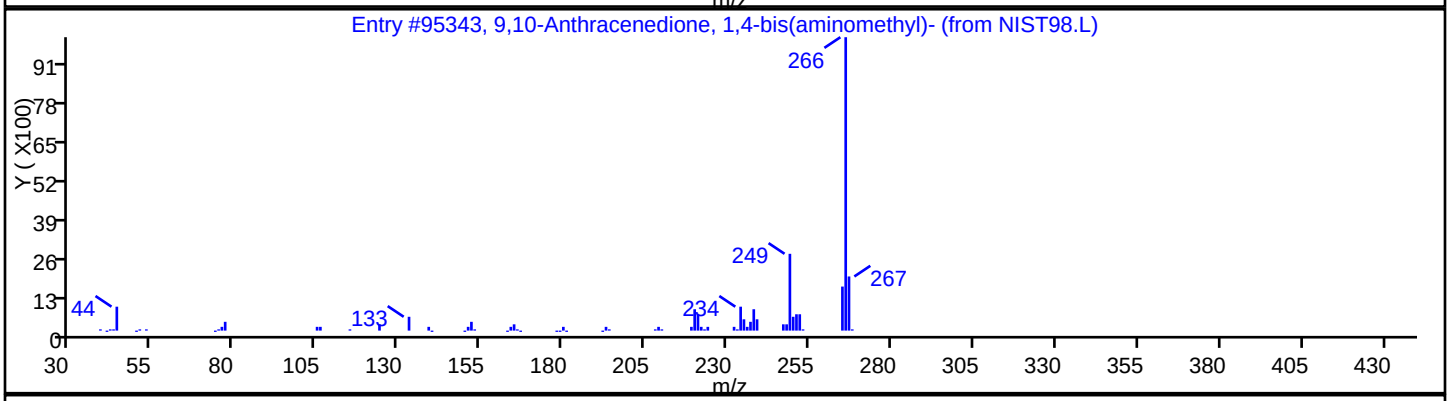
Report Date: 09-Mar-2013 09:11:23 Chrom Revision: 2.0 01-Feb-2013 10:03:10

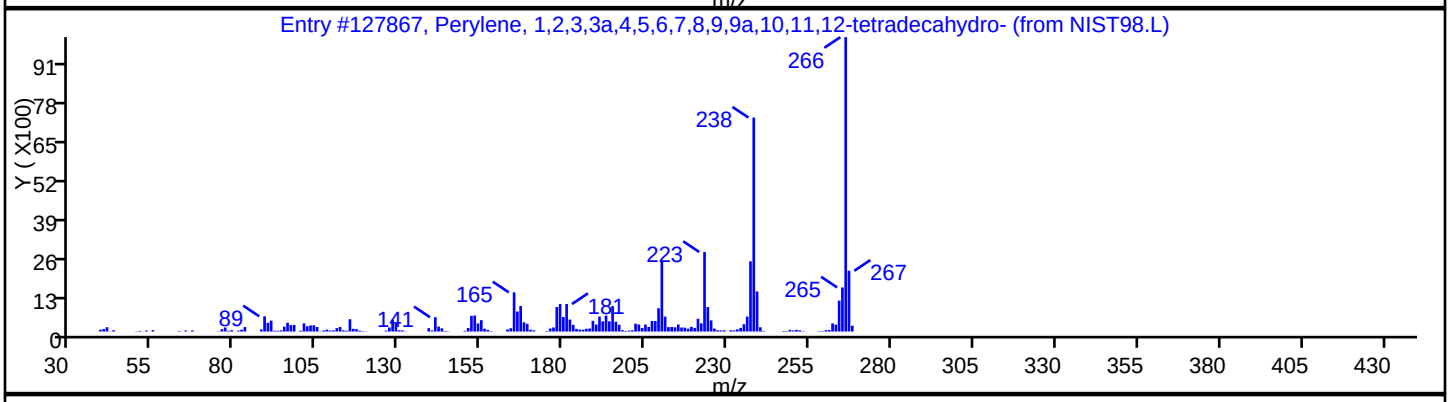
TestAmerica Buffalo

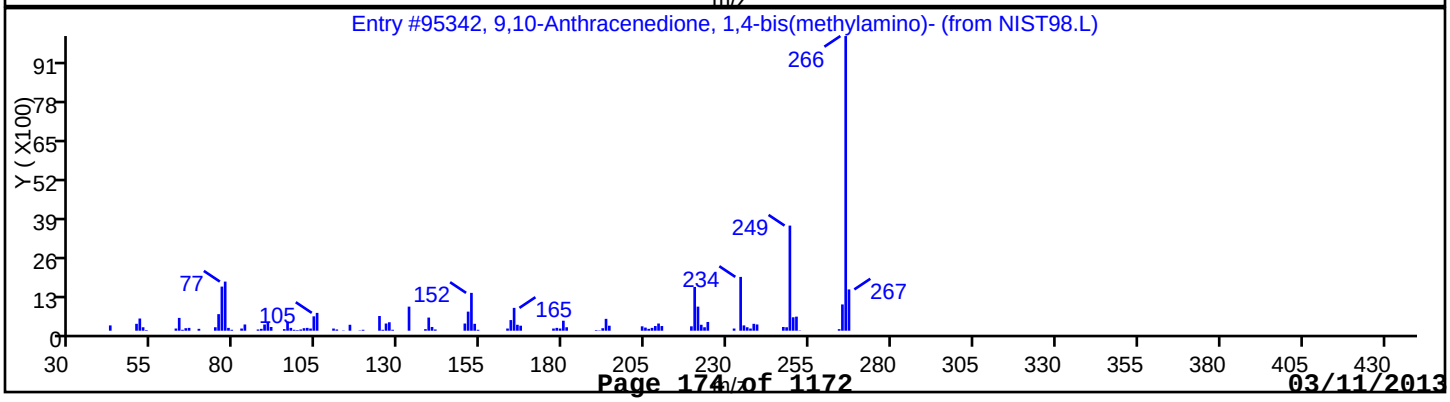
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3148.D		
Injection Date:	18-Dec-2012 19:26:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-528-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	19
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
9,10-Anthracenedione, 1,4-bis(aminomethy	77862-13-6	NIST98.L	95343	58
Perylene, 1,2,3,3a,4,5,6,7,8,9,9a,10,11,	7594-86-7	NIST98.L	127867	53
9,10-Anthracenedione, 1,4-bis(methylamin	2475-44-7	NIST98.L	95342	42







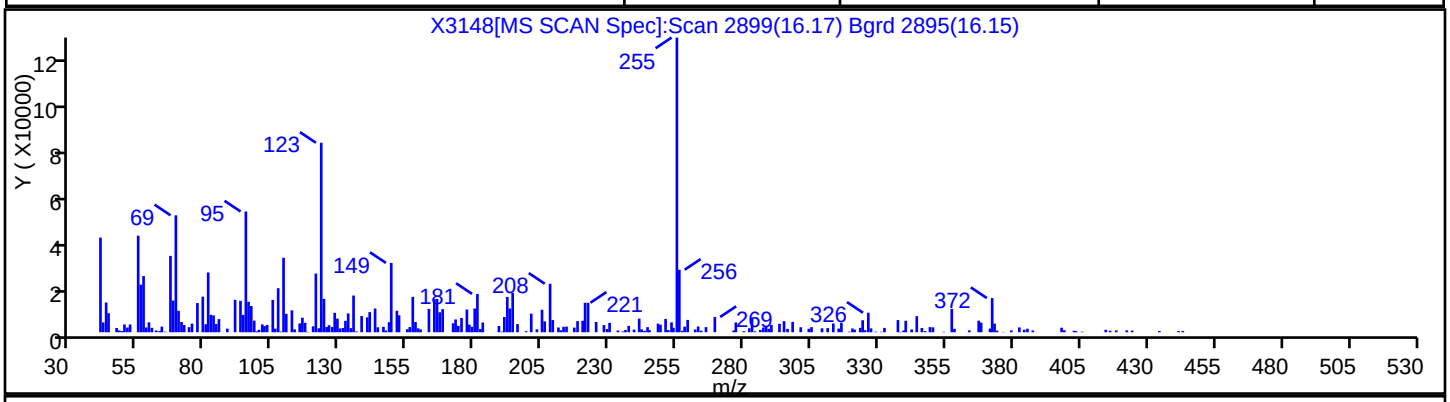


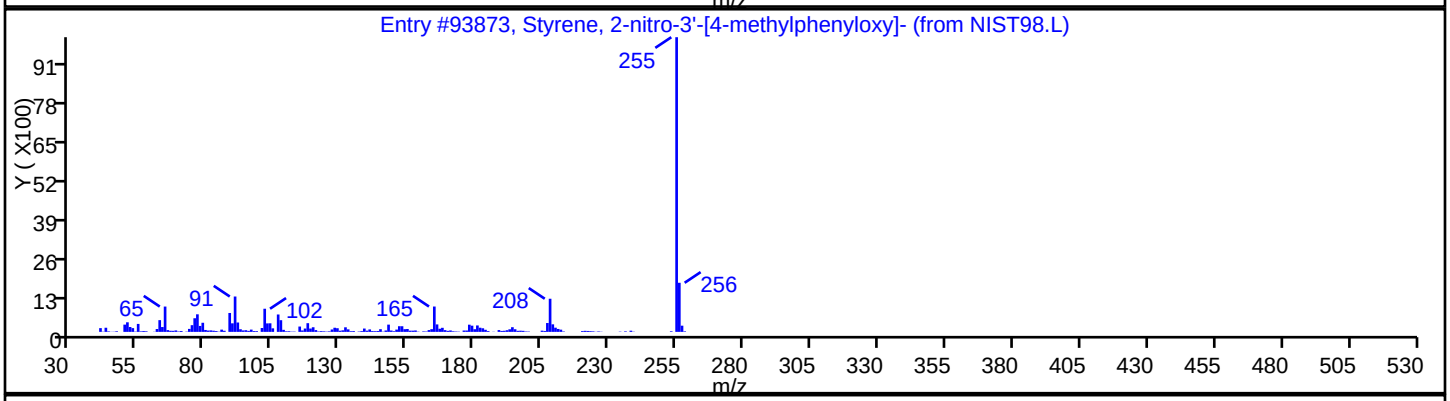
Report Date: 09-Mar-2013 09:11:23 Chrom Revision: 2.0 01-Feb-2013 10:03:10

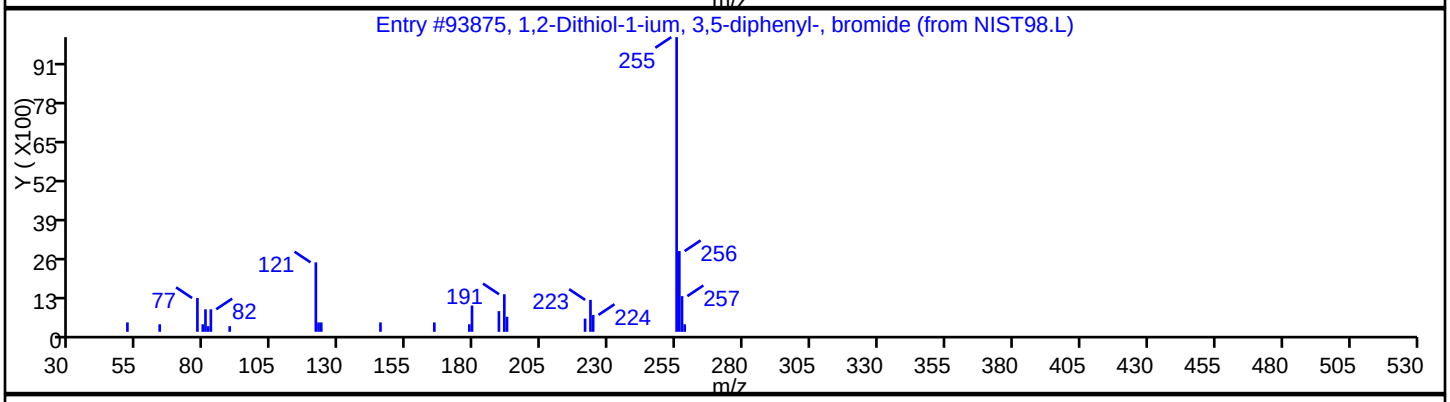
TestAmerica Buffalo

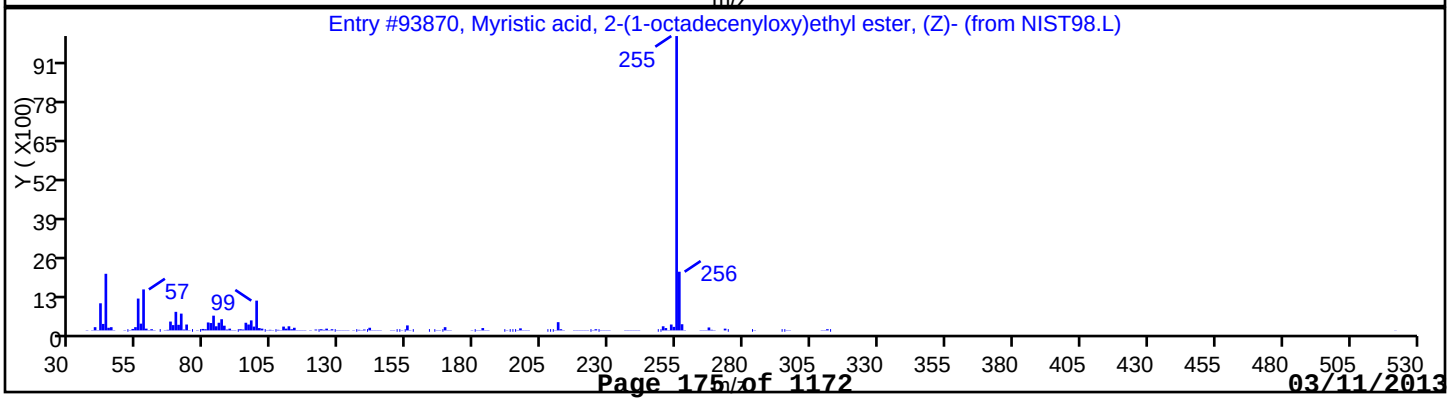
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3148.D		
Injection Date:	18-Dec-2012 19:26:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-528-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	19
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Styrene, 2-nitro-3'-[4-methylphenyloxy]-	1000126-4-1	NIST98.L	93873	30
1,2-Dithiol-1-ium, 3,5-diphenyl-, bromid	55836-88-9	NIST98.L	93875	16
Myristic acid, 2-(1-octadecenyloxy)ethyl	30760-1-1	NIST98.L	93870	16









FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-29598-1

SDG No.:

Client Sample ID: OC-SB-528-1.0/3.0-XXX | Lab Sample ID: 480-29598-8

Matrix: Solid | Lab File ID: X3149.D

Analysis Method: 8270D | Date Collected: 12/05/2012 14:05

Extract. Method: 3546 | Date Extracted: 12/11/2012 08:51

Sample wt/vol: 000030.8(g) | Date Analyzed: 12/18/2012 19:51

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

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

% Moisture: 59.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 96347 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	ND		1600	480
95-50-1	1,2-Dichlorobenzene	ND		1600	480
541-73-1	1,3-Dichlorobenzene	ND		1600	480
100-52-7	Benzaldehyde	ND		1600	480
106-46-7	1,4-Dichlorobenzene	ND		1600	480
108-60-1	2,2'-oxybis[1-chloropropane]	ND		1600	480
95-95-4	2,4,5-Trichlorophenol	ND		1600	520
88-06-2	2,4,6-Trichlorophenol	ND		1600	670
100-51-6	Benzyl alcohol	ND		3200	480
120-83-2	2,4-Dichlorophenol	ND		1600	480
105-67-9	2,4-Dimethylphenol	ND		1600	480
51-28-5	2,4-Dinitrophenol	ND	*	1600	1300
121-14-2	2,4-Dinitrotoluene	ND		1600	480
100-01-6	4-Nitroaniline	ND		7900	1300
606-20-2	2,6-Dinitrotoluene	ND		1600	1300
91-58-7	2-Chloronaphthalene	ND	*	1600	480
95-57-8	2-Chlorophenol	ND		1600	480
86-30-6	N-Nitrosodiphenylamine	ND		1600	480
91-57-6	2-Methylnaphthalene	ND		1600	480
95-48-7	2-Methylphenol	ND		1600	480
88-75-5	2-Nitrophenol	ND		1600	620
15831-10-4	3 & 4 Methylphenol	ND		1600	480
91-94-1	3,3'-Dichlorobenzidine	ND		3200	570
88-74-4	2-Nitroaniline	ND		7900	2000
101-55-3	4-Bromophenyl phenyl ether	ND		1600	480
77-47-4	Hexachlorocyclopentadiene	ND		3200	480
106-47-8	4-Chloroaniline	ND		3200	1400
100-02-7	4-Nitrophenol	ND	*	7900	670
83-32-9	Acenaphthene	ND		1600	480
534-52-1	4,6-Dinitro-2-methylphenol	ND		7900	1500
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		1600	480
208-96-8	Acenaphthylene	ND		1600	480
98-86-2	Acetophenone	ND		1600	480
62-53-3	Aniline	ND		1600	480

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-29598-1

SDG No.:

Client Sample ID: OC-SB-528-1.0/3.0-XXX | Lab Sample ID: 480-29598-8

Matrix: Solid | Lab File ID: X3149.D

Analysis Method: 8270D | Date Collected: 12/05/2012 14:05

Extract. Method: 3546 | Date Extracted: 12/11/2012 08:51

Sample wt/vol: 000030.8(g) | Date Analyzed: 12/18/2012 19:51

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

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

% Moisture: 59.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 96347 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-12-7	Anthracene	ND		1600	480
1912-24-9	Atrazine	ND		1600	480
103-33-3	Azobenzene	ND		1600	480
56-55-3	Benzo[a]anthracene	ND		1600	480
50-32-8	Benzo[a]pyrene	ND		1600	480
205-99-2	Benzo[b]fluoranthene	ND		1600	480
191-24-2	Benzo[g,h,i]perylene	ND		1600	480
105-60-2	Caprolactam	ND		1600	480
99-09-2	3-Nitroaniline	ND		7900	480
207-08-9	Benzo[k]fluoranthene	ND		1600	810
111-91-1	Bis(2-chloroethoxy)methane	ND		1600	480
92-52-4	1,1'-Biphenyl	ND		1600	480
111-44-4	Bis(2-chloroethyl)ether	ND		1600	480
117-81-7	Bis(2-ethylhexyl) phthalate	11000		7900	3200
85-68-7	Butyl benzyl phthalate	ND		1600	480
218-01-9	Chrysene	ND		1600	480
621-64-7	N-Nitrosodi-n-propylamine	ND		1600	480
65-85-0	Benzoic acid	ND		7900	710
53-70-3	Dibenz(a,h)anthracene	ND		1600	480
132-64-9	Dibenzofuran	ND		1600	480
84-66-2	Diethyl phthalate	ND		1600	520
131-11-3	Dimethyl phthalate	ND		1600	480
84-74-2	Di-n-butyl phthalate	ND		7900	2400
117-84-0	Di-n-octyl phthalate	ND		1600	480
101-84-8	Phenyl ether	820	J	1600	480
58-90-2	2,3,4,6-Tetrachlorophenol	ND		1600	480
206-44-0	Fluoranthene	ND		1600	480
59-50-7	4-Chloro-3-methylphenol	ND		3200	480
86-73-7	Fluorene	ND		1600	480
7005-72-3	4-Chlorophenyl phenyl ether	ND		1600	480
118-74-1	Hexachlorobenzene	ND		1600	480
87-68-3	Hexachlorobutadiene	ND		1600	480
67-72-1	Hexachloroethane	ND		1600	480
193-39-5	Indeno[1,2,3-cd]pyrene	ND	*	1600	480

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-29598-1

SDG No.:

Client Sample ID: OC-SB-528-1.0/3.0-XXX | Lab Sample ID: 480-29598-8

Matrix: Solid | Lab File ID: X3149.D

Analysis Method: 8270D | Date Collected: 12/05/2012 14:05

Extract. Method: 3546 | Date Extracted: 12/11/2012 08:51

Sample wt/vol: 000030.8(g) | Date Analyzed: 12/18/2012 19:51

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

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

% Moisture: 59.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 96347 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
78-59-1	Isophorone	ND		1600	480
91-20-3	Naphthalene	ND		1600	480
98-95-3	Nitrobenzene	ND		1600	480
87-86-5	Pentachlorophenol	ND		1600	480
85-01-8	Phenanthrene	ND		1600	480
119-61-9	Benzophenone	ND		1600	480
108-95-2	Phenol	ND		1600	480
129-00-0	Pyrene	ND		1600	480
62-75-9	N-Nitrosodimethylamine	ND		1600	480
86-74-8	Carbazole	ND		1600	480
90-12-0	1-Methylnaphthalene	ND		1600	480
106-44-5	4-Methylphenol	ND		1600	480

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.: 480-29598-1

SDG No.:

Client Sample ID: OC-SB-528-1.0/3.0-XXX | Lab Sample ID: 480-29598-8

Matrix: Solid | Lab File ID: X3149.D

Analysis Method: 8270D | Date Collected: 12/05/2012 14:05

Extract. Method: 3546 | Date Extracted: 12/11/2012 08:51

Sample wt/vol: 000030.8(g) | Date Analyzed: 12/18/2012 19:51

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

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

% Moisture: 59.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 96347 | Units: ug/Kg

Number TICs Found: 5 | TIC Result Total: 71650

CAS NO.	COMPOUND NAME	RT	RESULT	Q
123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	4.15	29000	T J N
123-48-8	3-Heptene, 2,2,4,6,6-pentamethyl-	9.61	26000	T J N
4390-4-9	Nonane, 2,2,4,4,6,8,8-heptamethyl-	9.73	15000	T J N
313-87-1	8H-Dinaphtho[2,3-c:2',3'-g]carbazole	18.12	820	T J N
22611-26-3	D:C-Friedoolean-8-en-3-one	18.78	830	T J N

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3149.D		
Lims ID:	480-29598-E-8-B	Client ID:	OC-SB-528-1.0/3.0-XXX
Inject. Date:	18-Dec-2012 19:51:30	Dil. Factor:	20.0000
Sample Type:	Client		
Sample ID:	480-0017654-020		
Misc. Info.:			
Operator:	ANM	Instrument ID:	HP5973X
Injection Vol:	1.0 ul	ALS Bottle#:	21
Lims Batch ID:	96347	Lims Sample ID:	20
Detector:	MS SCAN		

Method:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X-8270LL.m		
Last Update:	09-Mar-2013 09:11:13	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: 19-Dec-2012 09:10:49

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.541	6.537	0.004	87	224912	5.00	
* 2 Naphthalene-d8	136	8.458	8.425	0.033	97	820326	5.00	
* 3 Acenaphthene-d10	164	11.102	11.035	0.067	88	530586	5.00	
* 4 Phenanthrene-d10	188	13.099	13.052	0.047	96	893116	5.00	
* 5 Chrysene-d12	240	15.729	15.720	0.009	89	711338	5.00	
* 6 Perylene-d12	264	17.008	17.004	0.004	81	797611	5.00	
$ 7 2-Fluorophenol	112		4.672					
$ 8 Phenol-d5	99		6.061					9
$ 9 Nitrobenzene-d5	82		7.374					
$ 10 2-Fluorobiphenyl	172		10.056					9
$ 11 2,4,6-Tribromophenol	330		12.196					9
$ 12 p-Terphenyl-d14	244		14.740					
19 N-Nitrosodimethylamine	42		2.918					
21 Benzaldehyde	77		5.909					
23 Aniline	93		6.071					
22 Phenol	94		6.080					9
24 Bis(2-chloroethyl)ether	93		6.170					
25 2-Chlorophenol	128		6.237					19
26 1,3-Dichlorobenzene	146		6.451					9
27 1,4-Dichlorobenzene	146		6.565					9
28 Benzyl alcohol	108		6.774					19
29 1,2-Dichlorobenzene	146		6.784					
31 2-Methylphenol	108		6.965					9
32 2,2'-oxybis[1-chloropropane]	45		6.979					
33 Acetophenone	105		7.155					
34 N-Nitrosodi-n-propylamine	70		7.164					19
35 DFTPP								
36 4-Methylphenol	108		7.212					
37 Hexachloroethane	117		7.274					19
38 Nitrobenzene	77		7.402					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
40 Isophorone	82		7.764					9
41 2-Nitrophenol	139		7.873					19
43 2,4-Dimethylphenol	107		7.987					
45 Bis(2-chloroethoxy)methane	93		8.111					19
44 Benzoic acid	105		8.168					14
47 2,4-Dichlorophenol	162		8.268					
48 1,2,4-Trichlorobenzene	180		8.348					19
49 Naphthalene	128		8.458					
51 4-Chloroaniline	127		8.586					149
52 Hexachlorobutadiene	225		8.653					9
54 Caprolactam	113		9.114					
55 4-Chloro-3-methylphenol	107		9.371					12
56 2-Methylnaphthalene	142		9.495					
57 1-Methylnaphthalene	142		9.637					
58 Hexachlorocyclopentadiene	237		9.728					9
59 1,2,4,5-Tetrachlorobenzene	216		9.747					
60 2,4,6-Trichlorophenol	196		9.951					
61 2,4,5-Trichlorophenol	196		10.037					
62 1,1'-Biphenyl	154	10.289	10.198	0.091	61	31107	0.2028	M
63 2-Chloronaphthalene	162		10.241					9
64 Phenyl ether	170	10.436	10.360	0.076	80	43036	0.5159	M
65 2-Nitroaniline	65		10.417					
67 Dimethyl phthalate	163		10.693					9
68 2,6-Dinitrotoluene	165		10.783					
69 Acenaphthylene	152		10.821					9
70 3-Nitroaniline	138		11.045					
71 Acenaphthene	153		11.083					9
72 2,4-Dinitrophenol	184		11.211					
73 Dibenzofuran	168		11.349					149
74 2,4-Dinitrotoluene	165		11.387					
75 4-Nitrophenol	109		11.421					
76 2,3,4,6-Tetrachlorophenol	232		11.563					1
78 Diethyl phthalate	149		11.744					
79 Fluorene	166		11.853					9
80 4-Chlorophenyl phenyl ether	204		11.868					
81 4-Nitroaniline	138		11.953					
82 4,6-Dinitro-2-methylphenol	198		11.982					
83 N-Nitrosodiphenylamine	169	12.124	12.048	0.076	69	42916	0.2066	M
16 1,2-Diphenylhydrazine	77		12.086					
85 Azobenzene	77		12.086					
86 Benzophenone	105		12.110					
89 4-Bromophenyl phenyl ether	248		12.519					
91 Hexachlorobenzene	284		12.581					9
93 Atrazine	200		12.771					
94 Pentachlorophenol	266		12.852					
97 Phenanthrene	178		13.080					
98 Anthracene	178		13.142					
99 Carbazole	167		13.351					
102 Di-n-butyl phthalate	149		13.741					
104 Fluoranthene	202		14.364					9
106 Pyrene	202		14.588					
108 Butyl benzyl phthalate	149		15.196					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
109 3,3'-Dichlorobenzidine	252		15.691					
110 Bis(2-ethylhexyl) phthalate	149	15.705	15.696	0.009	95	970369	6.69	
111 Benzo[a]anthracene	228		15.705					9
112 Chrysene	228		15.743					
113 Di-n-octyl phthalate	149		16.238					
114 Benzo[b]fluoranthene	252		16.647					
115 Benzo[k]fluoranthene	252		16.666					
116 Benzo[a]pyrene	252		16.951					
117 Indeno[1,2,3-cd]pyrene	276		18.093					9
118 Dibenz(a,h)anthracene	278		18.093					
119 Benzo[g,h,i]perylene	276		18.411					
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\20121218-17654.b\X3149.D		
Lims ID:	480-29598-E-8-B	Client ID:	OC-SB-528-1.0/3.0-XXX
Inject. Date:	18-Dec-2012 19:51:30	Dil. Factor:	20.0000
Sample Type:	Client		
Sample ID:	480-0017654-020		
Misc. Info.:			
Operator:	ANM	Instrument ID:	HP5973X
Injection Vol:	1.0 ul	ALS Bottle#:	21
Lims Batch ID:	96347	Lims Sample ID:	20
Detector:	MS SCAN		
Method:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X-8270LL.m		
Last Update:	09-Mar-2013 09:11:13	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:	10		
Process Host:	XAWRK034		
First Level Reviewer: mckernar		Date:	19-Dec-2012 09:10:49

Calibrated Tentative Identified Compound Results

Compound	RT	Response	Amount ng/uL	Flags
1,4-Dioxane	2.589	3111		
Pyridine	3.003	568	0.0136	
1,4-Dinitrobenzene	10.683	333		
Diphenylamine	12.124	21060	0.1013	
Benzidine	14.559	1557	0.0198	

Tentative Identified Compound Results

RT	Response	Amount ng/uL	Quant Cpnd	Qual	Lib Entry	Flags
123-42-2	2-Pentanone, 4-hydroxy-4-methyl-					
4.145	5845615	18.5	1	56	109756	
123-48-8	3-Heptene, 2,2,4,6,6-pentamethyl-					
9.613	6150263	16.6	2	50	17462	
4390-4-9	Nonane, 2,2,4,4,6,8,8-heptamethyl-					
9.728	3549091	9.58	2	59	112599	
313-87-1	8H-Dinaphtho[2,3-c:2',3'-g]carbazole					
18.116	9065351	0.5189	6	53	104066	
22611-26-3	D:C-Friedoolean-8-en-3-one					
18.777	9112888	0.5216	6	94	84420	

Quantitation Compounds

Compound	RT	Response	Amount ng/uL
* 1 1,4-Dichlorobenzene-d4	6.541	1584035	5.00

Report Date: 09-Mar-2013 09:11:24 Chrom Revision: 2.0 01-Feb-2013 10:03:10
Data File: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3149.D

Compound	RT	Response	Amount ng/uL
* 2 Naphthalene-d8	8.458	1853101	5.00
* 6 Perylene-d12	16.989	87348846	5.00

QC Flag Legend

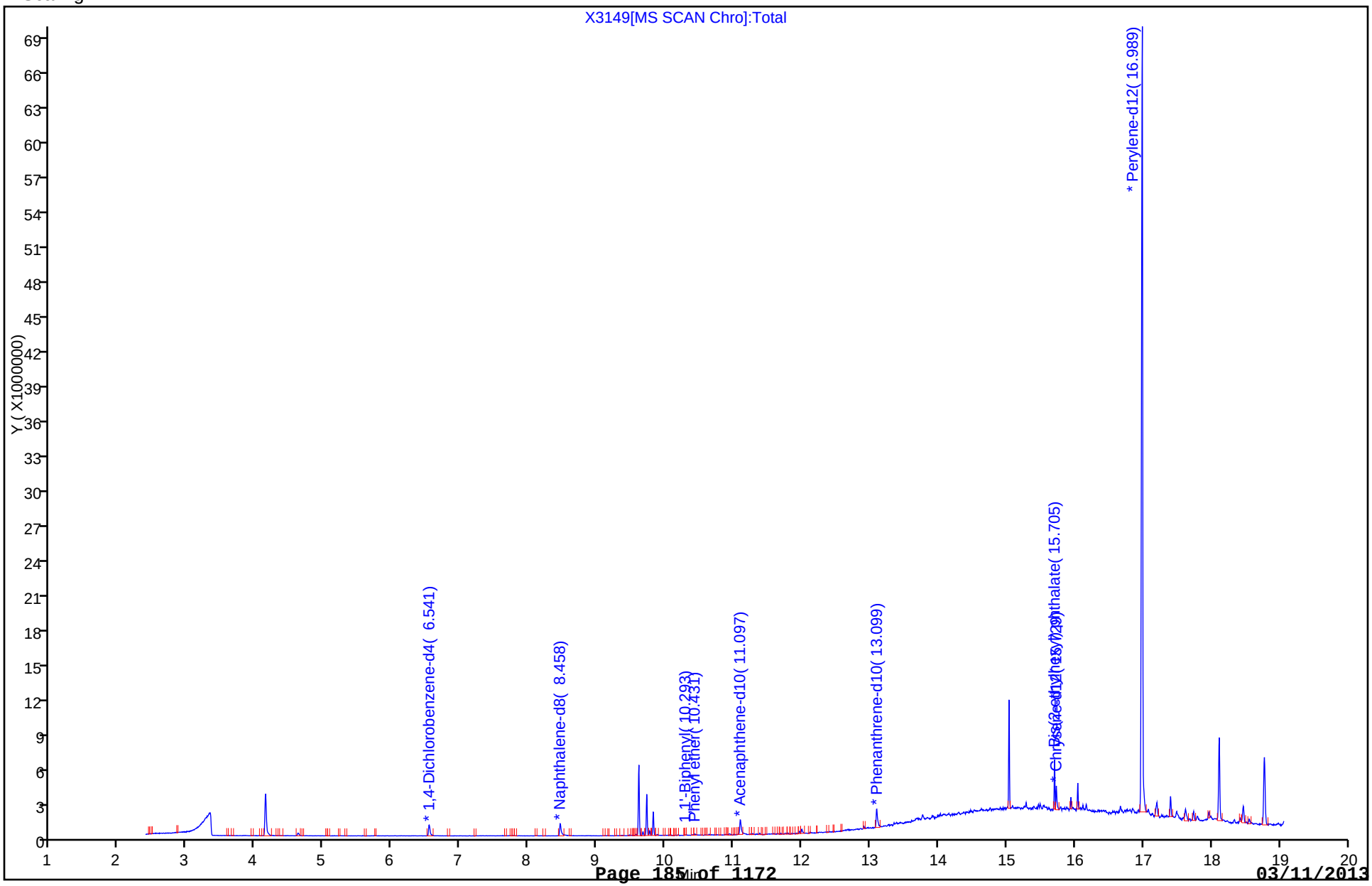
Processing Flags

Report Date: 09-Mar-2013 09:11:24 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3149.D		
Injection Date:	18-Dec-2012 19:51:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-528-1.0/3.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	20
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Y Scaling:

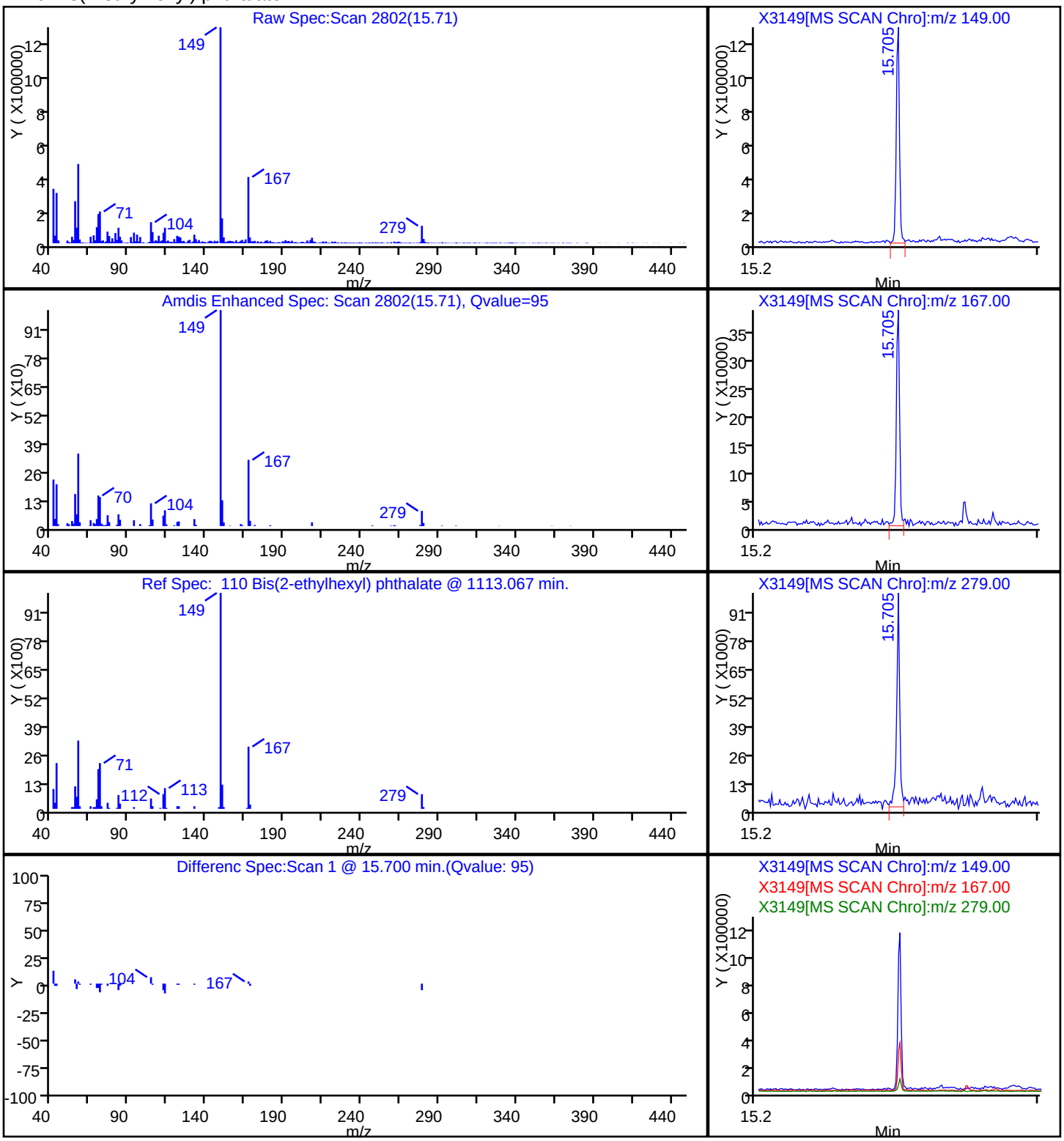


Report Date: 09-Mar-2013 09:11:24 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3149.D		
Injection Date:	18-Dec-2012 19:51:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-528-1.0/3.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	20
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

110 Bis(2-ethylhexyl) phthalate

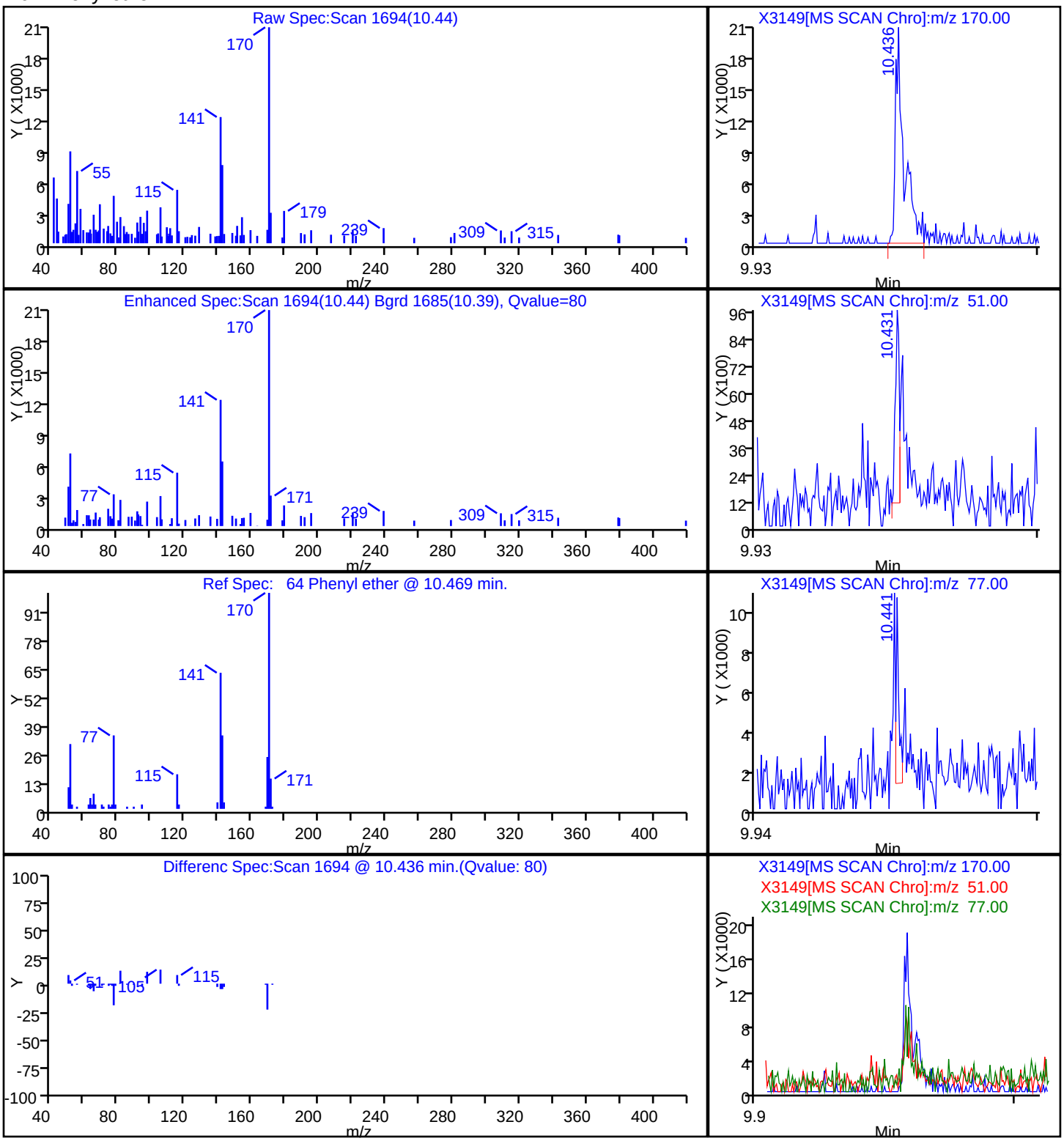


Report Date: 09-Mar-2013 09:11:24 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3149.D		
Injection Date:	18-Dec-2012 19:51:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-528-1.0/3.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	20
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

64 Phenyl ether



Manual Integration/User Assign Peak Report

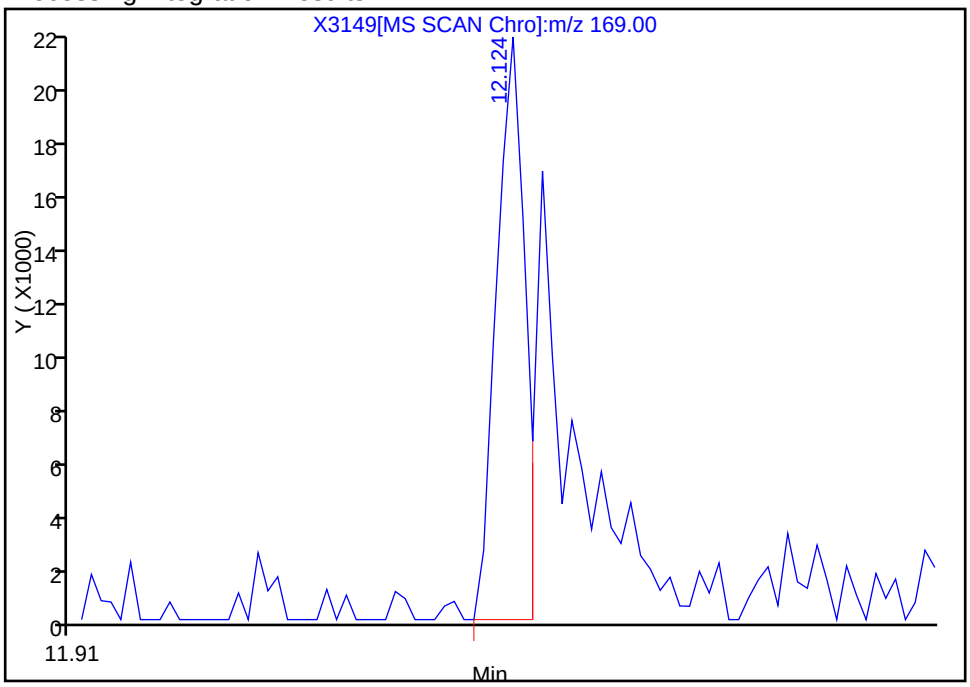
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3149.D		
Injection Date:	18-Dec-2012 19:51:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-528-1.0/3.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	20
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: 12.05

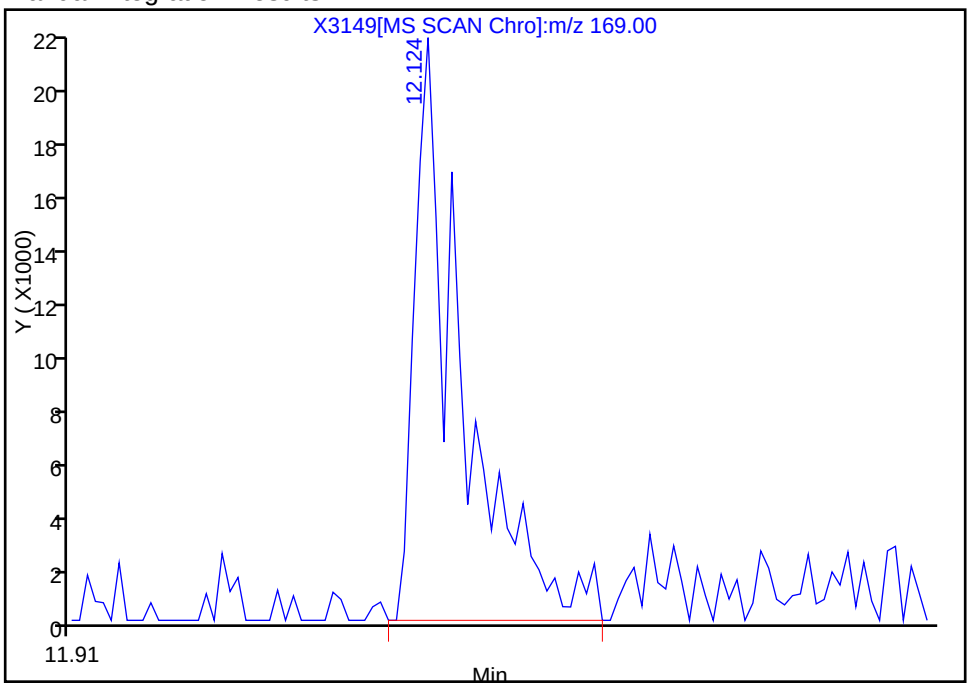
Processing Integration Results

RT: 12.12
Response: 21060
Amount: 0.093420



Manual Integration Results

RT: 12.12
Response: 42916
Amount: 0.206632



Reviewer: mckernar, 19-Dec-2012 09:24:34
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

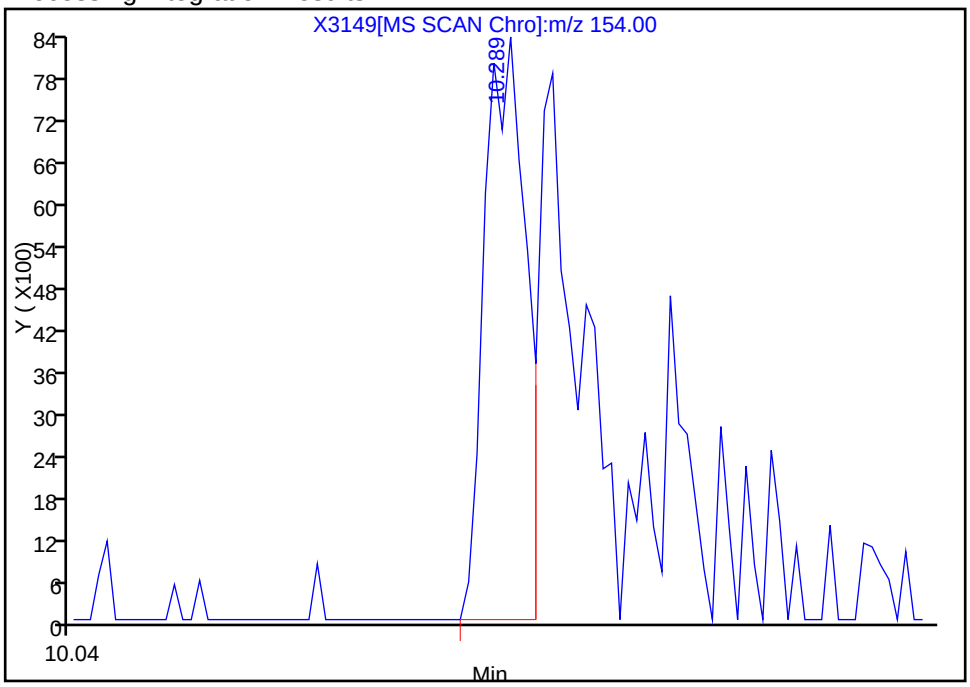
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3149.D		
Injection Date:	18-Dec-2012 19:51:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-528-1.0/3.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	20
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: 10.20

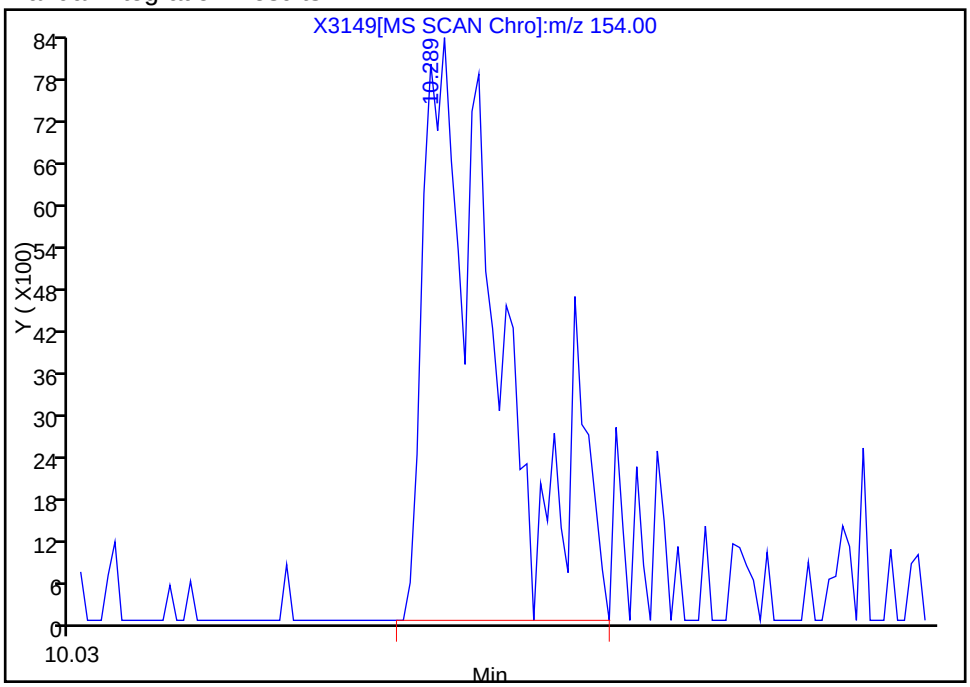
Processing Integration Results

RT: 10.29
Response: 13684
Amount: 0.083202



Manual Integration Results

RT: 10.29
Response: 31107
Amount: 0.202783



Reviewer: mckernar, 19-Dec-2012 09:24:34
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

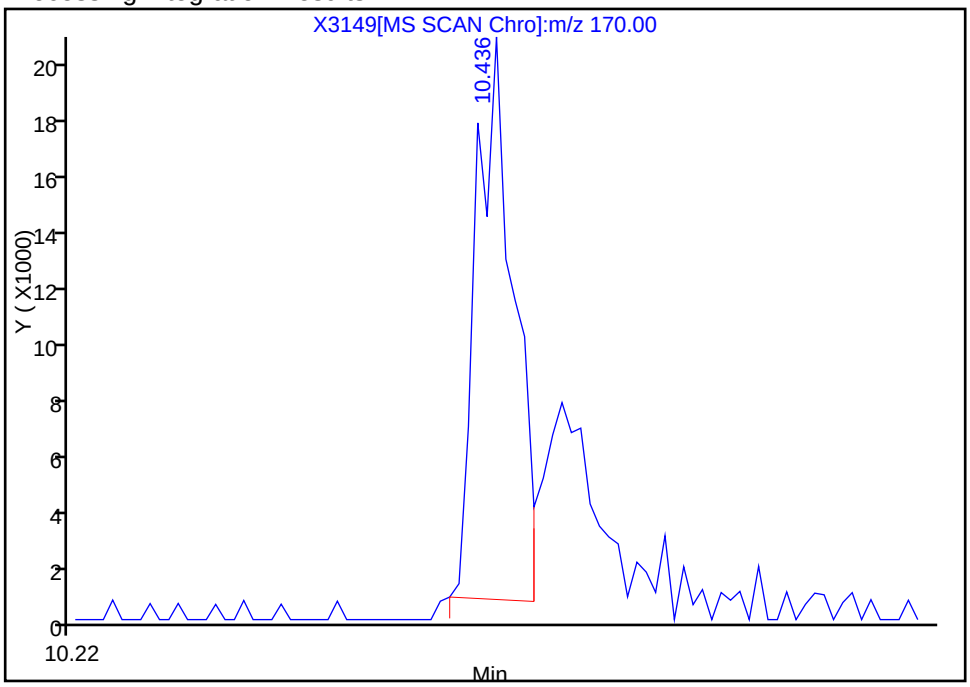
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3149.D		
Injection Date:	18-Dec-2012 19:51:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-528-1.0/3.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	20
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: 10.36

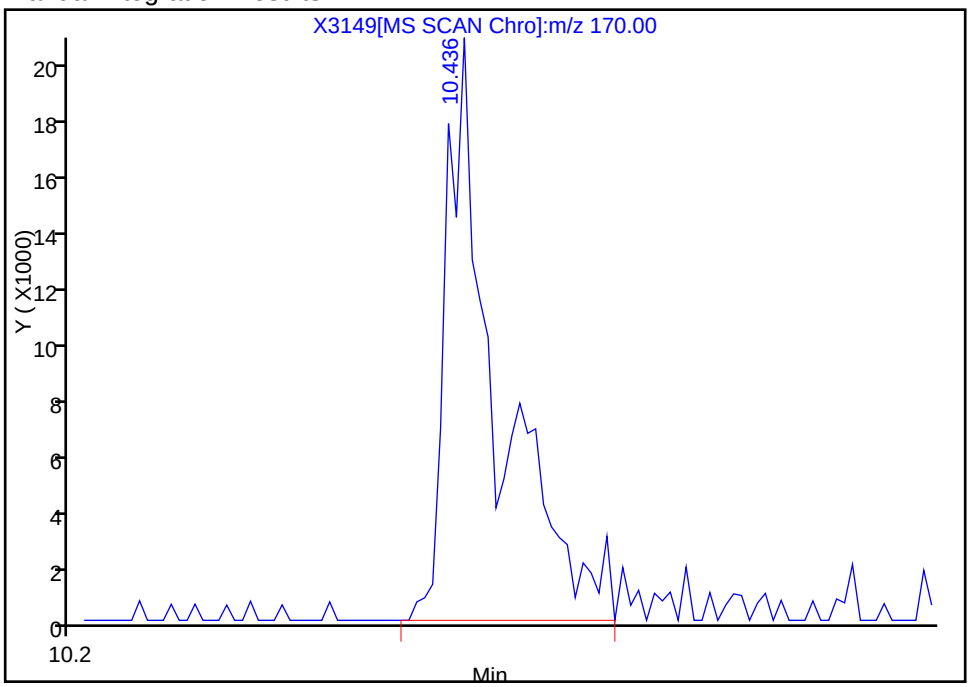
Processing Integration Results

RT: 10.44
Response: 25742
Amount: 0.299339



Manual Integration Results

RT: 10.44
Response: 43036
Amount: 0.515860



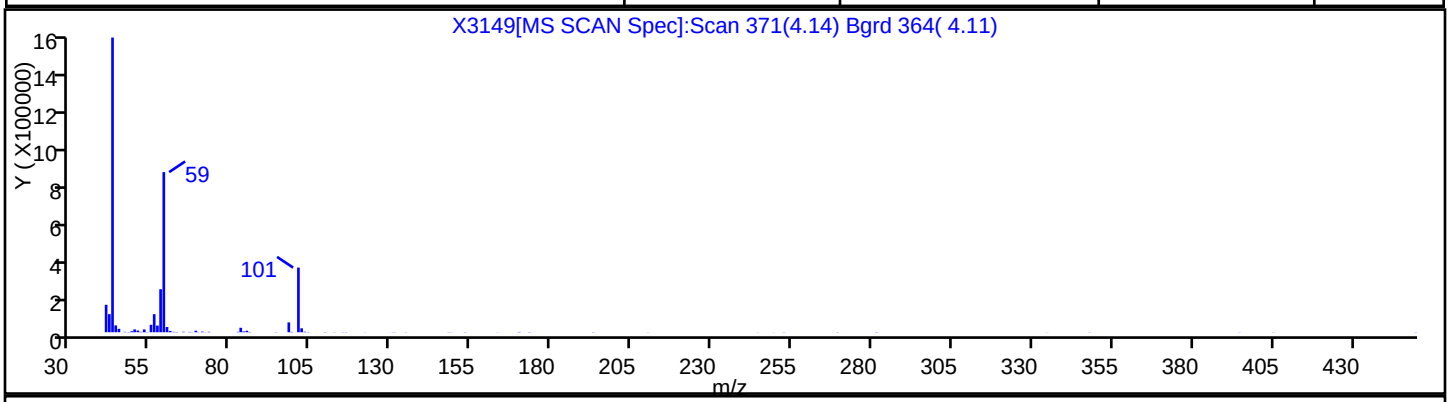
Reviewer: mckernar, 19-Dec-2012 09:24:34
Audit Action: Manually Integrated
Audit Reason: Assign Peak

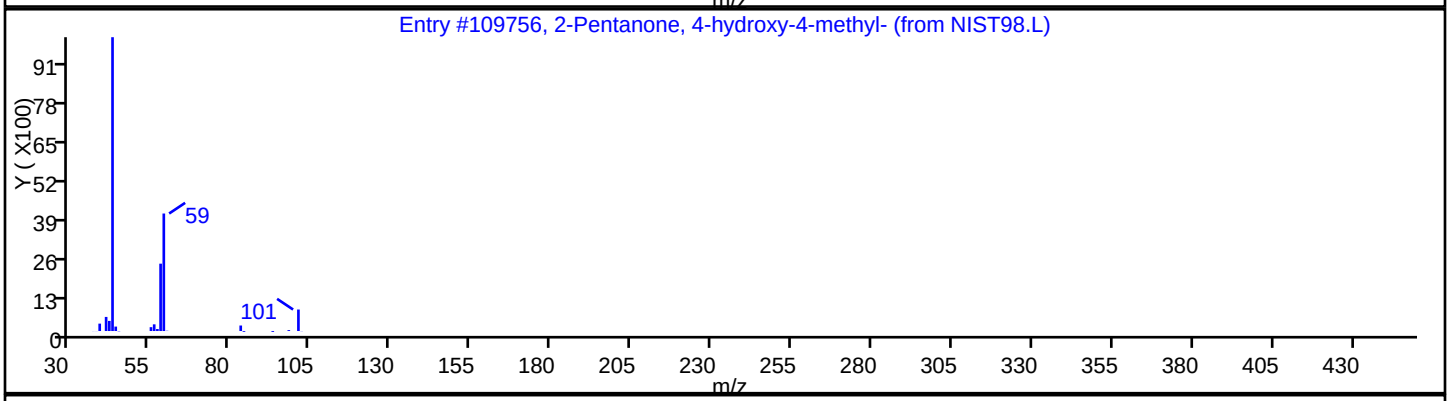
Report Date: 09-Mar-2013 09:11:25 Chrom Revision: 2.0 01-Feb-2013 10:03:10

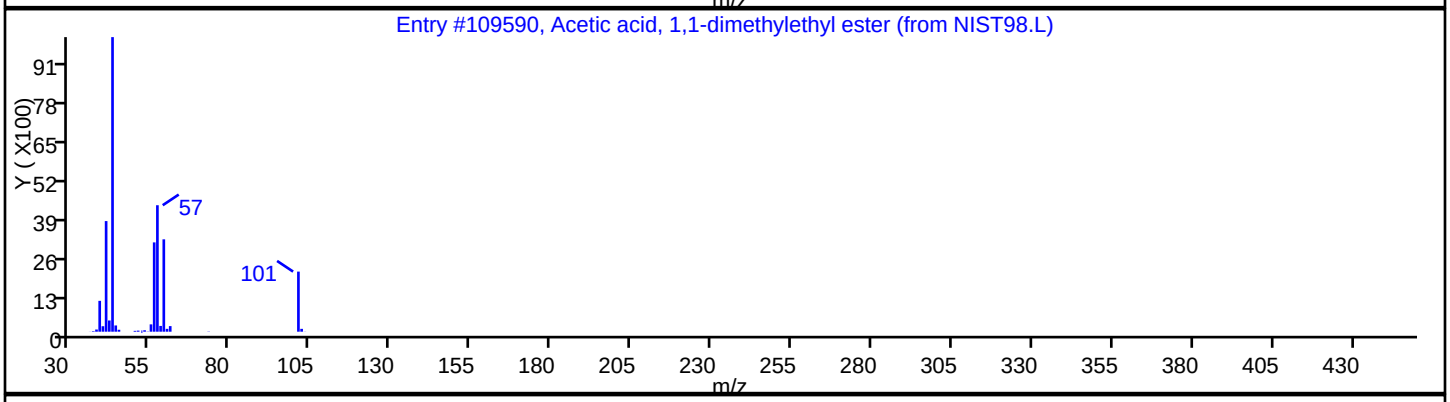
TestAmerica Buffalo

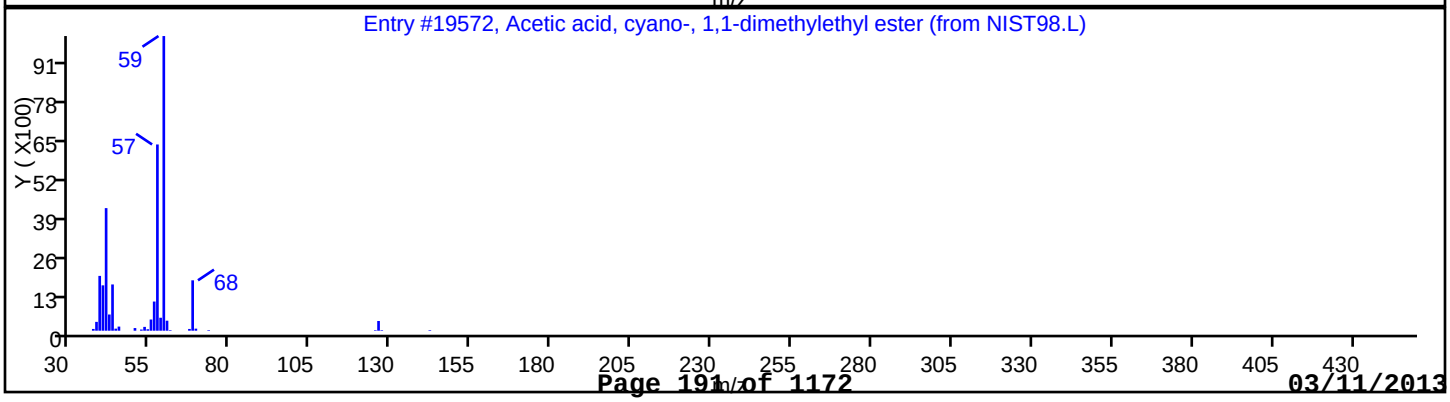
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3149.D		
Injection Date:	18-Dec-2012 19:51:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-528-1.0/3.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	20
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST98.L	109756	56
Acetic acid, 1,1-dimethylethyl ester	540-88-5	NIST98.L	109590	33
Acetic acid, cyano-, 1,1-dimethylethyl e	1116-98-9	NIST98.L	19572	17







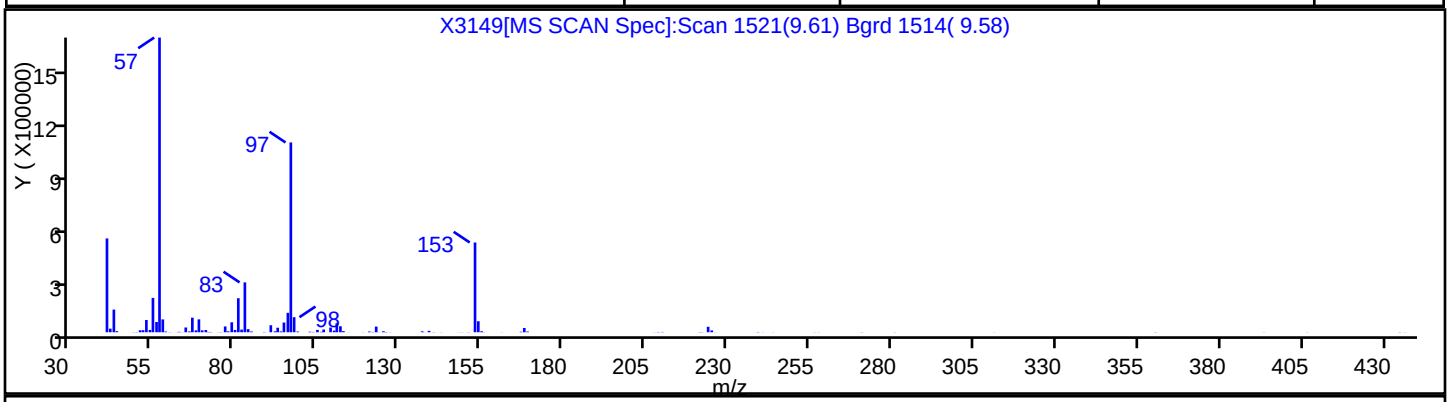


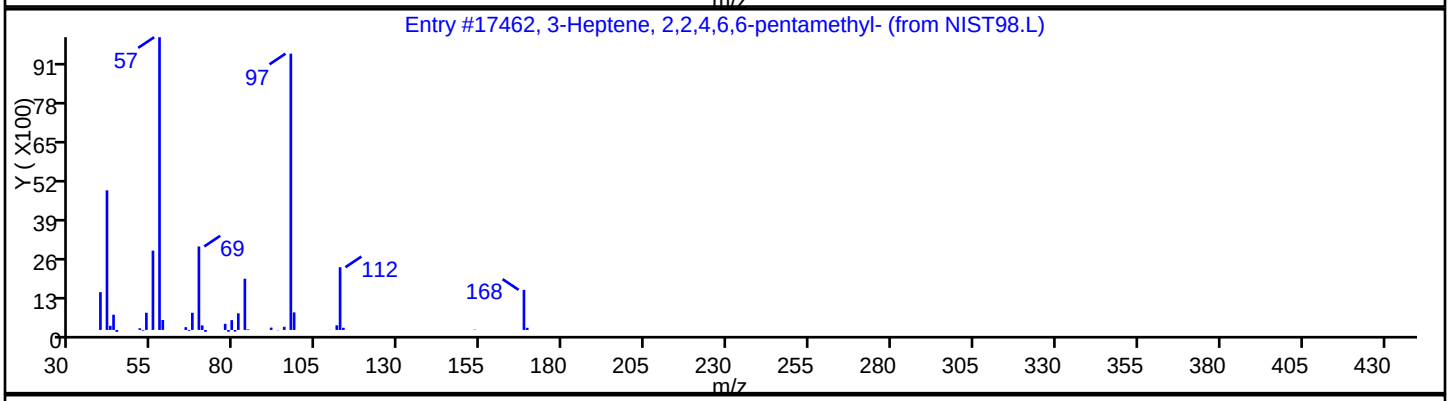
Report Date: 09-Mar-2013 09:11:25 Chrom Revision: 2.0 01-Feb-2013 10:03:10

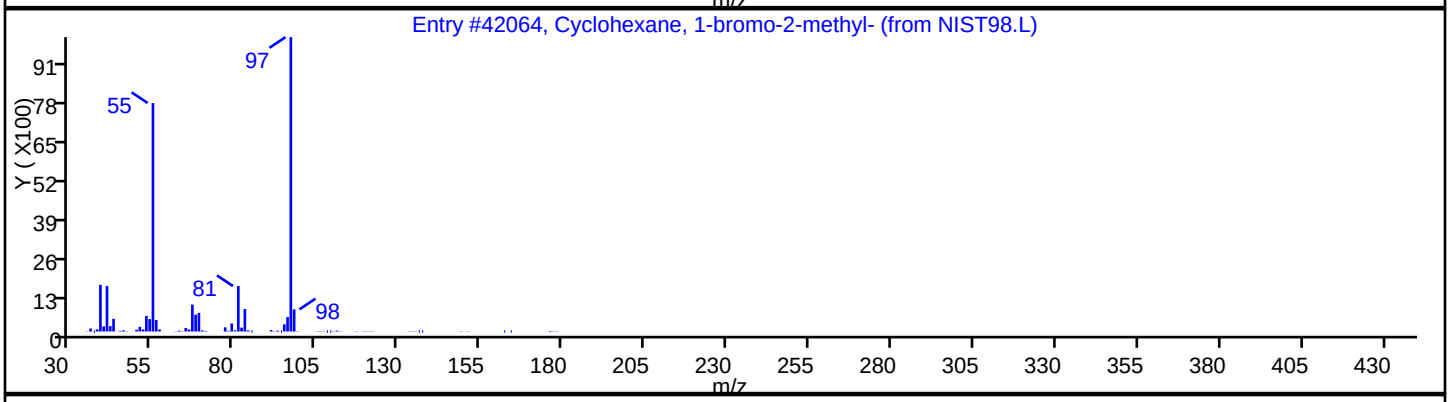
TestAmerica Buffalo

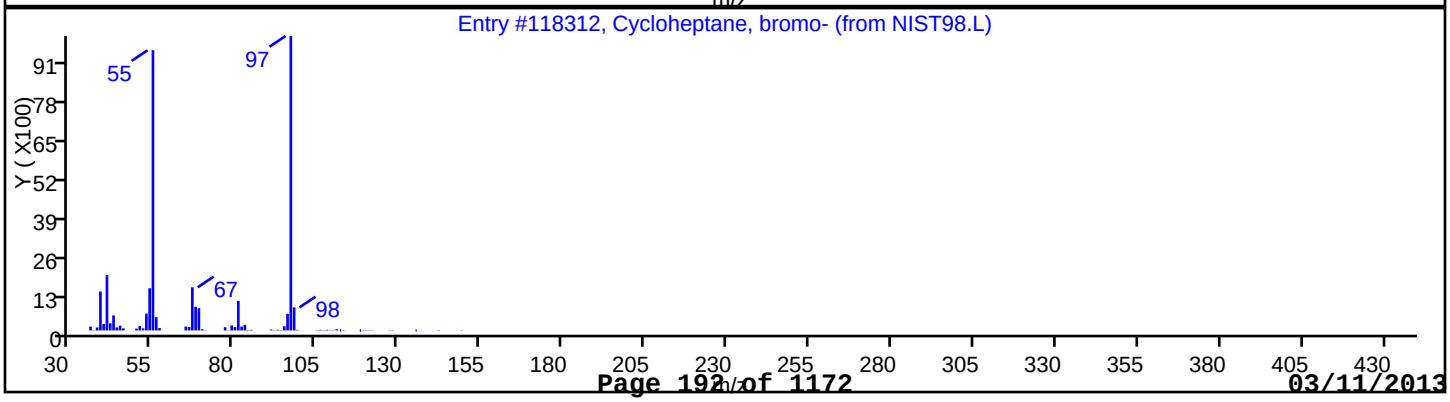
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3149.D		
Injection Date:	18-Dec-2012 19:51:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-528-1.0/3.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	20
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
3-Heptene, 2,2,4,6,6-pentamethyl-	123-48-8	NIST98.L	17462	50
Cyclohexane, 1-bromo-2-methyl-	6294-39-9	NIST98.L	42064	32
Cycloheptane, bromo-	2404-35-5	NIST98.L	118312	32







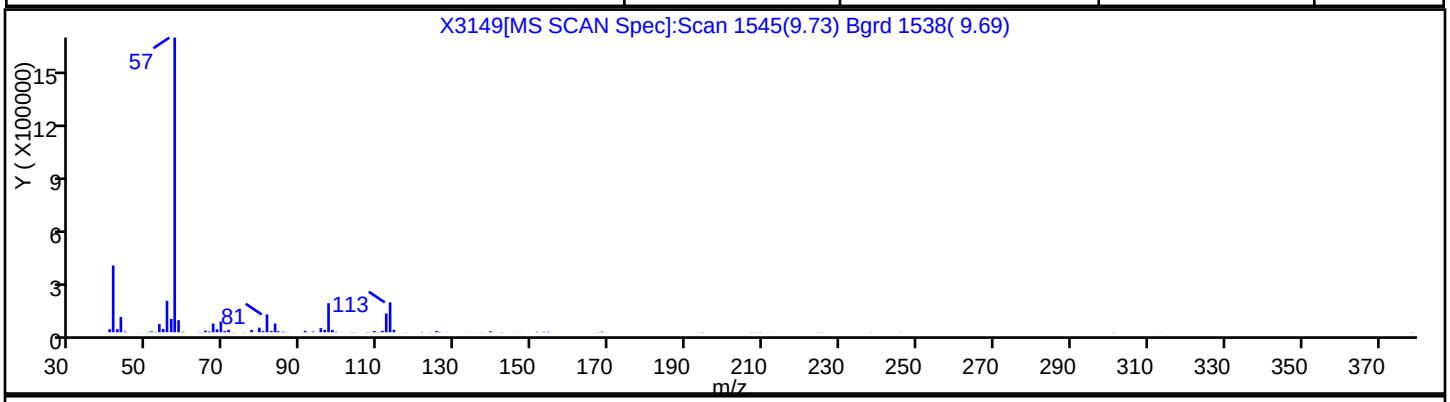


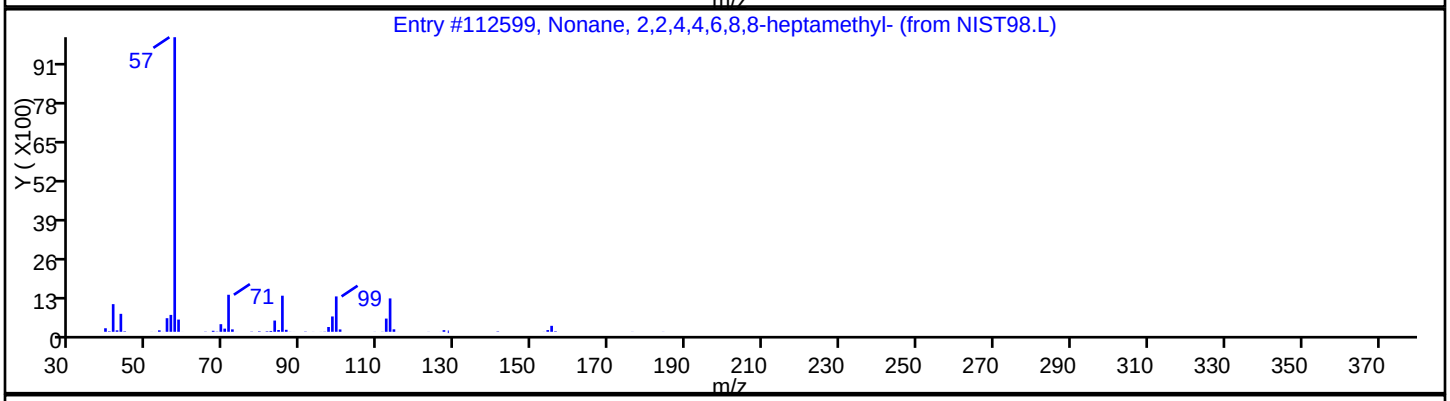
Report Date: 09-Mar-2013 09:11:25 Chrom Revision: 2.0 01-Feb-2013 10:03:10

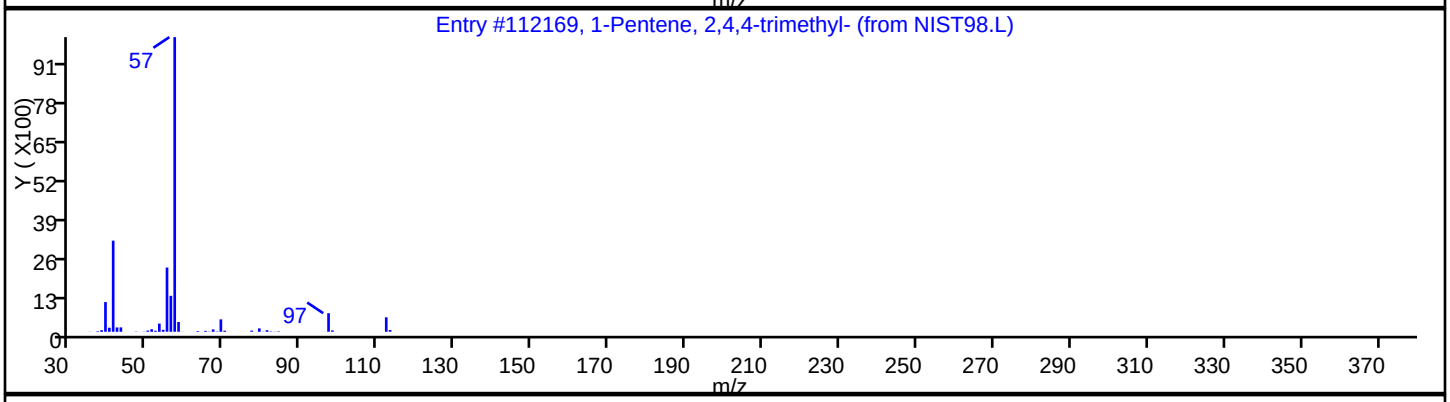
TestAmerica Buffalo

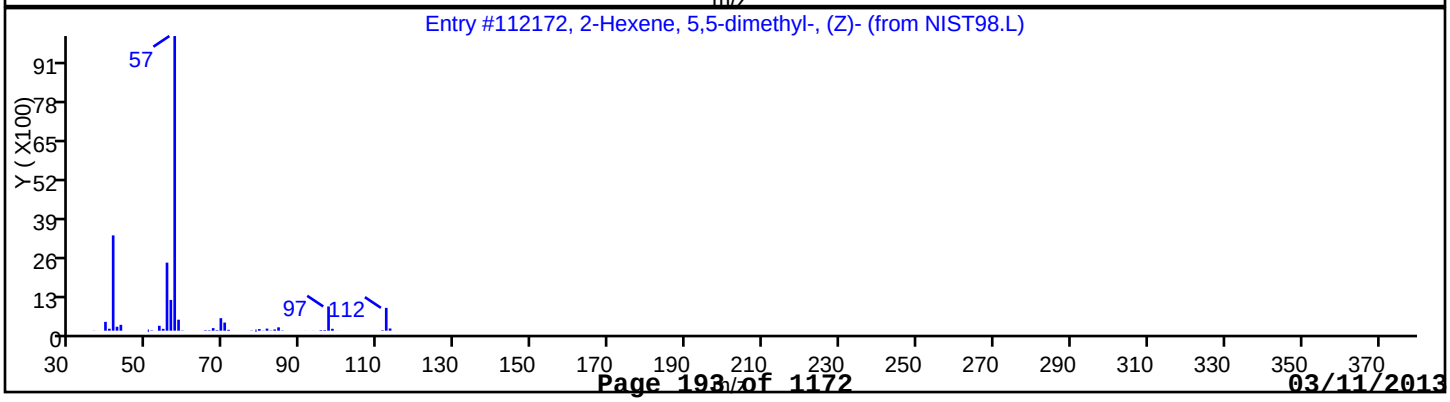
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3149.D		
Injection Date:	18-Dec-2012 19:51:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-528-1.0/3.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	20
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Nonane, 2,2,4,4,6,8,8-heptamethyl-	4390-4-9	NIST98.L	112599	59
1-Pentene, 2,4,4-trimethyl-	107-39-1	NIST98.L	112169	50
2-Hexene, 5,5-dimethyl-, (Z)-	39761-61-0	NIST98.L	112172	40







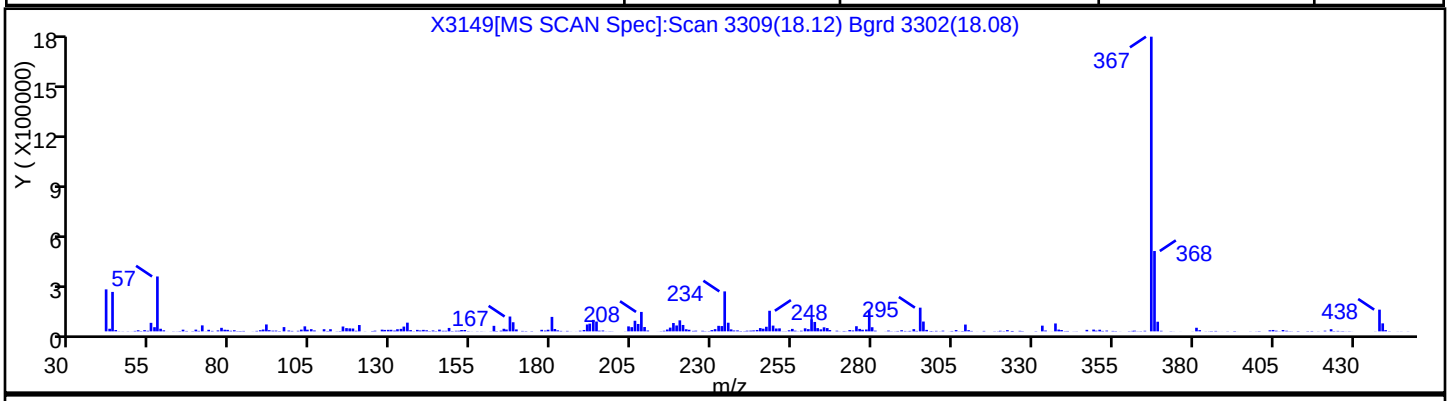


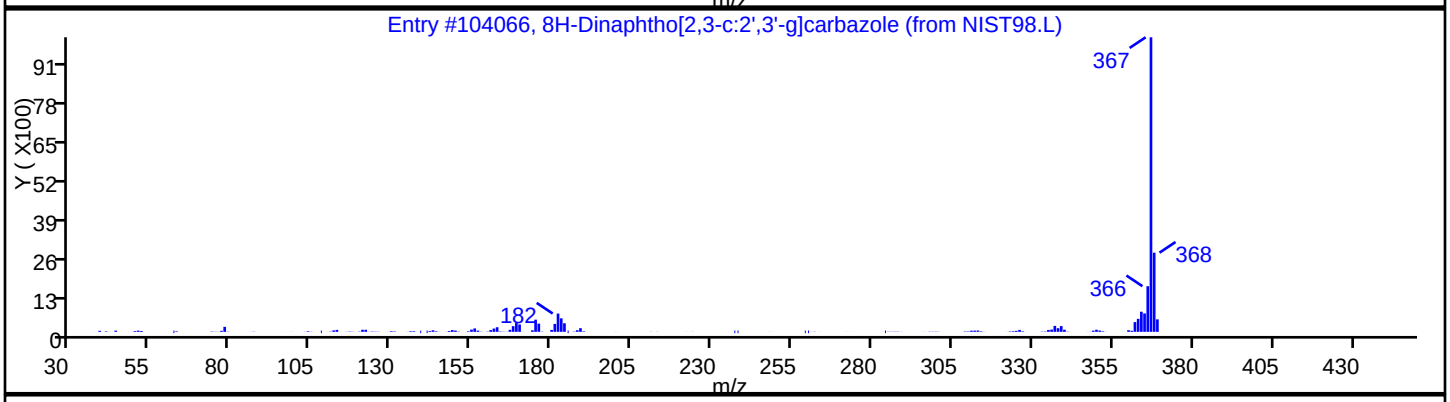
Report Date: 09-Mar-2013 09:11:25 Chrom Revision: 2.0 01-Feb-2013 10:03:10

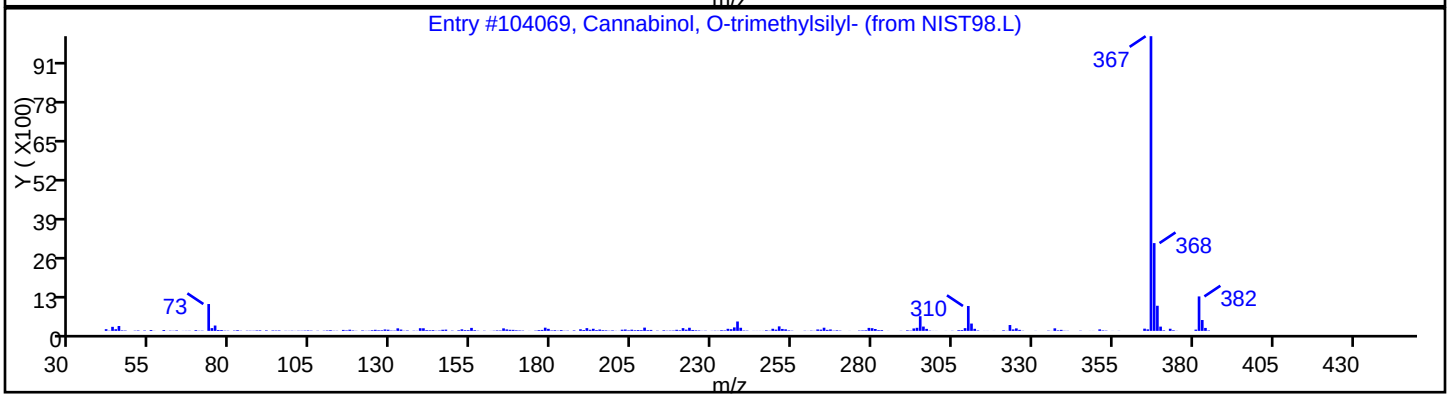
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3149.D		
Injection Date:	18-Dec-2012 19:51:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-528-1.0/3.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	20
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
8H-Dinaphtho[2,3-c:2',3'-g]carbazole	313-87-1	NIST98.L	104066	53
Cannabinol, O-trimethylsilyl-	1000152-98-3	NIST98.L	104069	36





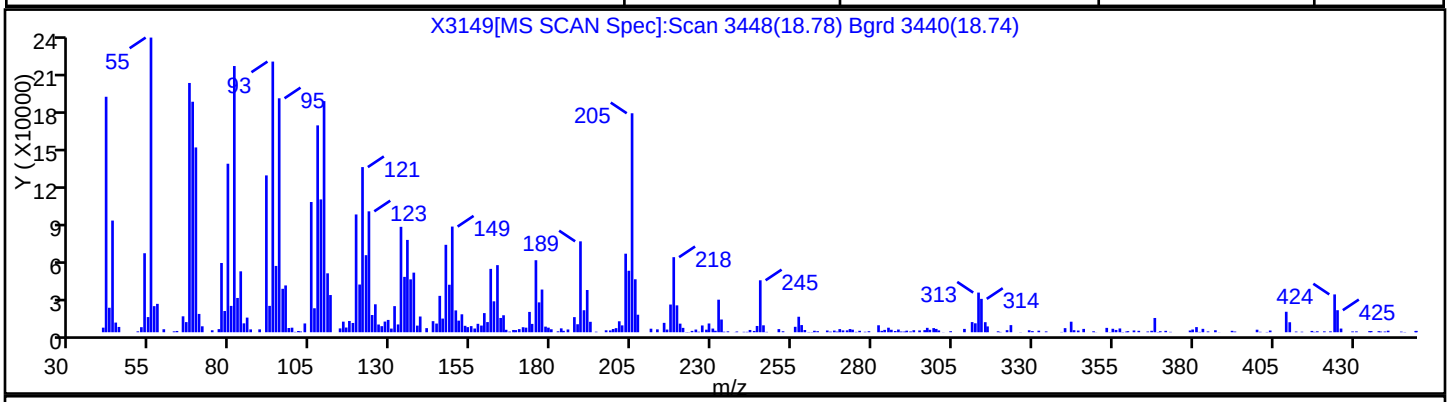


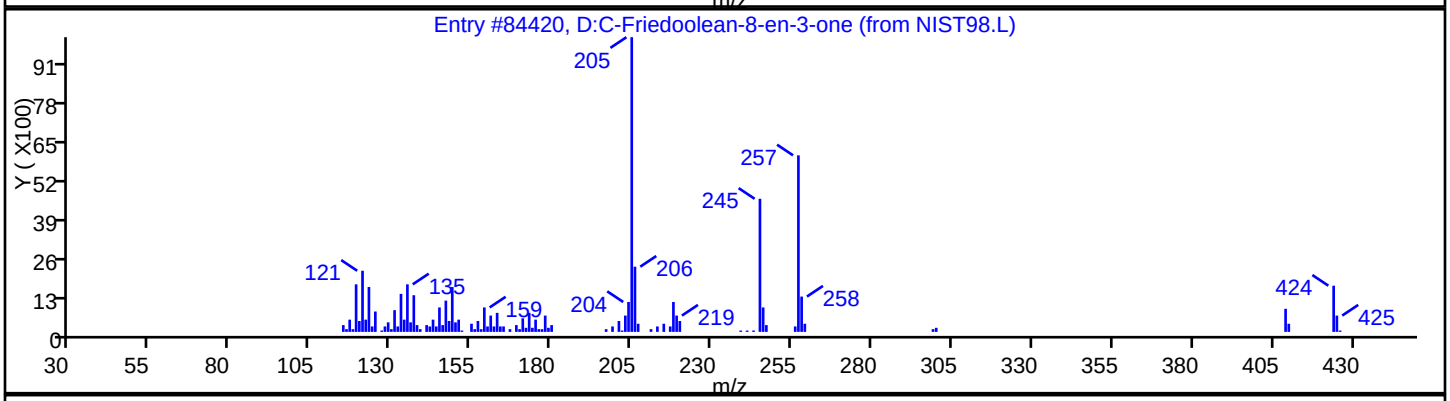
Report Date: 09-Mar-2013 09:11:25 Chrom Revision: 2.0 01-Feb-2013 10:03:10

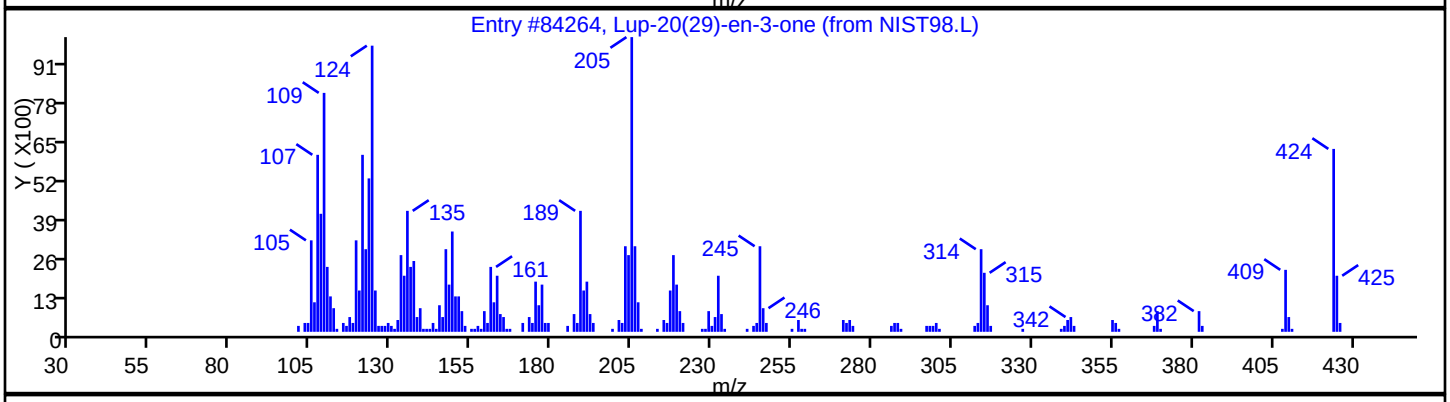
TestAmerica Buffalo

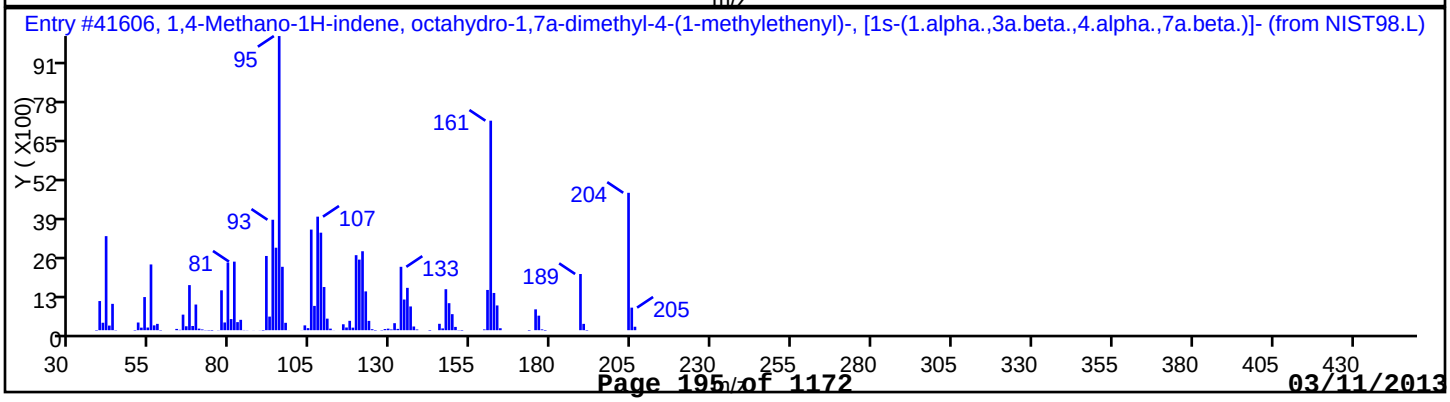
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3149.D		
Injection Date:	18-Dec-2012 19:51:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-528-1.0/3.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	20
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
D:C-Friedoolean-8-en-3-one	22611-26-3	NIST98.L	84420	94
Lup-20(29)-en-3-one	1617-70-5	NIST98.L	84264	78
1,4-Methano-1H-indene, octahydro-1,7a-di	87064-18-4	NIST98.L	41606	55









FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-29598-1

SDG No.:

Client Sample ID: OC-SB-529-0.0/1.0-XXX | Lab Sample ID: 480-29598-9

Matrix: Solid | Lab File ID: X3150.D

Analysis Method: 8270D | Date Collected: 12/05/2012 12:30

Extract. Method: 3546 | Date Extracted: 12/11/2012 08:51

Sample wt/vol: 000030.1(g) | Date Analyzed: 12/18/2012 20:16

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

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

% Moisture: 40.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 96347 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	ND		56	17
95-50-1	1,2-Dichlorobenzene	ND		56	17
541-73-1	1,3-Dichlorobenzene	ND		56	17
100-52-7	Benzaldehyde	97		56	17
106-46-7	1,4-Dichlorobenzene	ND		56	17
108-60-1	2,2'-oxybis[1-chloropropane]	ND		56	17
95-95-4	2,4,5-Trichlorophenol	ND		56	18
88-06-2	2,4,6-Trichlorophenol	ND		56	23
100-51-6	Benzyl alcohol	ND		110	17
120-83-2	2,4-Dichlorophenol	ND		56	17
105-67-9	2,4-Dimethylphenol	ND		56	17
51-28-5	2,4-Dinitrophenol	ND	*	56	45
121-14-2	2,4-Dinitrotoluene	ND		56	17
100-01-6	4-Nitroaniline	ND		280	47
606-20-2	2,6-Dinitrotoluene	ND		56	47
91-58-7	2-Chloronaphthalene	ND	*	56	17
95-57-8	2-Chlorophenol	ND		56	17
86-30-6	N-Nitrosodiphenylamine	ND		56	17
91-57-6	2-Methylnaphthalene	ND		56	17
95-48-7	2-Methylphenol	ND		56	17
88-75-5	2-Nitrophenol	ND		56	22
15831-10-4	3 & 4 Methylphenol	ND		56	17
91-94-1	3,3'-Dichlorobenzidine	ND		110	20
88-74-4	2-Nitroaniline	ND		280	70
101-55-3	4-Bromophenyl phenyl ether	ND		56	17
77-47-4	Hexachlorocyclopentadiene	ND		110	17
106-47-8	4-Chloroaniline	ND		110	50
100-02-7	4-Nitrophenol	ND	*	280	23
83-32-9	Acenaphthene	ND		56	17
534-52-1	4,6-Dinitro-2-methylphenol	ND		280	54
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		56	17
208-96-8	Acenaphthylene	ND		56	17
98-86-2	Acetophenone	18	J	56	17
62-53-3	Aniline	ND		56	17

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-29598-1

SDG No.:

Client Sample ID: OC-SB-529-0.0/1.0-XXX | Lab Sample ID: 480-29598-9

Matrix: Solid | Lab File ID: X3150.D

Analysis Method: 8270D | Date Collected: 12/05/2012 12:30

Extract. Method: 3546 | Date Extracted: 12/11/2012 08:51

Sample wt/vol: 000030.1(g) | Date Analyzed: 12/18/2012 20:16

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

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

% Moisture: 40.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 96347 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-12-7	Anthracene	ND		56	17
1912-24-9	Atrazine	ND		56	17
103-33-3	Azobenzene	ND		56	17
56-55-3	Benzo[a]anthracene	ND		56	17
50-32-8	Benzo[a]pyrene	ND		56	17
205-99-2	Benzo[b]fluoranthene	ND		56	17
191-24-2	Benzo[g,h,i]perylene	ND		56	17
105-60-2	Caprolactam	ND		56	17
99-09-2	3-Nitroaniline	ND		280	17
207-08-9	Benzo[k]fluoranthene	ND		56	29
111-91-1	Bis(2-chloroethoxy)methane	ND		56	17
92-52-4	1,1'-Biphenyl	ND		56	17
111-44-4	Bis(2-chloroethyl)ether	ND		56	17
117-81-7	Bis(2-ethylhexyl) phthalate	ND		280	110
85-68-7	Butyl benzyl phthalate	ND		56	17
218-01-9	Chrysene	ND		56	17
621-64-7	N-Nitrosodi-n-propylamine	ND		56	17
65-85-0	Benzoic acid	ND		280	25
53-70-3	Dibenz(a,h)anthracene	ND		56	17
132-64-9	Dibenzofuran	ND		56	17
84-66-2	Diethyl phthalate	ND		56	18
131-11-3	Dimethyl phthalate	ND		56	17
84-74-2	Di-n-butyl phthalate	ND		280	84
117-84-0	Di-n-octyl phthalate	ND		56	17
101-84-8	Phenyl ether	ND		56	17
58-90-2	2,3,4,6-Tetrachlorophenol	ND		56	17
206-44-0	Fluoranthene	18	J	56	17
59-50-7	4-Chloro-3-methylphenol	ND		110	17
86-73-7	Fluorene	ND		56	17
7005-72-3	4-Chlorophenyl phenyl ether	ND		56	17
118-74-1	Hexachlorobenzene	ND		56	17
87-68-3	Hexachlorobutadiene	ND		56	17
67-72-1	Hexachloroethane	ND		56	17
193-39-5	Indeno[1,2,3-cd]pyrene	ND	*	56	17

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-29598-1

SDG No.:

Client Sample ID: OC-SB-529-0.0/1.0-XXX | Lab Sample ID: 480-29598-9

Matrix: Solid | Lab File ID: X3150.D

Analysis Method: 8270D | Date Collected: 12/05/2012 12:30

Extract. Method: 3546 | Date Extracted: 12/11/2012 08:51

Sample wt/vol: 000030.1(g) | Date Analyzed: 12/18/2012 20:16

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

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

% Moisture: 40.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 96347 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
78-59-1	Isophorone	ND		56	17
91-20-3	Naphthalene	26	J	56	17
98-95-3	Nitrobenzene	ND		56	17
87-86-5	Pentachlorophenol	ND		56	17
85-01-8	Phenanthrene	23	J	56	17
119-61-9	Benzophenone	ND		56	17
108-95-2	Phenol	24	J	56	17
129-00-0	Pyrene	ND		56	17
62-75-9	N-Nitrosodimethylamine	ND		56	17
86-74-8	Carbazole	ND		56	17
90-12-0	1-Methylnaphthalene	ND		56	17
106-44-5	4-Methylphenol	ND		56	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	71		30-130
367-12-4	2-Fluorophenol	59		30-130
4165-60-0	Nitrobenzene-d5	60		30-130
4165-62-2	Phenol-d5	83		30-130
321-60-8	2-Fluorobiphenyl	68		30-130
1718-51-0	p-Terphenyl-d14	63		30-130

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

Lab Name: TestAmerica Buffalo | Job No.: 480-29598-1

SDG No.:

Client Sample ID: OC-SB-529-0.0/1.0-XXX | Lab Sample ID: 480-29598-9

Matrix: Solid | Lab File ID: X3150.D

Analysis Method: 8270D | Date Collected: 12/05/2012 12:30

Extract. Method: 3546 | Date Extracted: 12/11/2012 08:51

Sample wt/vol: 000030.1(g) | Date Analyzed: 12/18/2012 20:16

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

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

% Moisture: 40.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 96347 | Units: ug/Kg

Number TICs Found: 10 | TIC Result Total: 14360

CAS NO.	COMPOUND NAME	RT	RESULT	Q
498-60-2	3-Furaldehyde	4.05	1000	T J N
17429-4-8	2-Pentanone, 5-methoxy-	4.20	7700	T J N
121-33-5	Vanillin	10.37	360	T J N
121-34-6	Benzoic acid, 4-hydroxy-3-methoxy-	11.67	620	T J N
57-10-3	n-Hexadecanoic acid	13.77	810	T J N
112-79-8	9-Octadecenoic acid, (E)-	14.47	590	T J N
630-3-5	Nonacosane	16.67	1300	T J N
77899-10-6	(Z)14-Tricosenyl formate	17.11	520	T J N
630-4-6	Hentriacontane	17.28	1100	T J N
1000158-8-0	.beta.-Humulene	18.77	360	T J N

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3150.D
Lims ID: 480-29598-B-9-A Client ID: OC-SB-529-0.0/1.0-XXX
Inject. Date: 18-Dec-2012 20:16:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 480-0017654-021
Misc. Info.:
Operator: ANM Instrument ID: HP5973X
Injection Vol: 1.0 ul ALS Bottle#: 22
Lims Batch ID: 96347 Lims Sample ID: 21
Detector: MS SCAN

Method: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X-8270LL.m
Last Update: 09-Mar-2013 09:11:13 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: 19-Dec-2012 09:28:14

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.541	6.537	0.004	78	232393	5.00	
* 2 Naphthalene-d8	136	8.458	8.425	0.033	97	904086	5.00	
* 3 Acenaphthene-d10	164	11.088	11.035	0.053	90	540648	5.00	
* 4 Phenanthrene-d10	188	13.099	13.052	0.047	96	857612	5.00	
* 5 Chrysene-d12	240	15.739	15.720	0.019	97	663564	5.00	
* 6 Perylene-d12	264	17.008	17.004	0.004	96	863043	5.00	
$ 7 2-Fluorophenol	112	4.658	4.672	-0.014	2	62202	1.18	
$ 8 Phenol-d5	99	6.094	6.061	0.033	76	106910	1.67	M
$ 9 Nitrobenzene-d5	82	7.393	7.374	0.019	82	81596	1.20	
$ 10 2-Fluorobiphenyl	172	10.108	10.056	0.052	87	184858	1.36	
$ 11 2,4,6-Tribromophenol	330	12.253	12.196	0.057	17	22464	1.42	
$ 12 p-Terphenyl-d14	244	14.768	14.740	0.028	96	162351	1.27	
19 N-Nitrosodimethylamine	42		2.918					
21 Benzaldehyde	77	5.904	5.909	-0.005	87	78727	1.73	
23 Aniline	93		6.071					
22 Phenol	94	6.109	6.080	0.029	0	30997	0.4379	M
24 Bis(2-chloroethyl)ether	93		6.170					
25 2-Chlorophenol	128		6.237					19
26 1,3-Dichlorobenzene	146		6.451					
27 1,4-Dichlorobenzene	146		6.565					
28 Benzyl alcohol	108		6.774					
29 1,2-Dichlorobenzene	146		6.784					9
31 2-Methylphenol	108		6.965					
32 2,2'-oxybis[1-chloropropane]	45		6.979					
33 Acetophenone	105	7.164	7.155	0.009	70	27895	0.3237	
34 N-Nitrosodi-n-propylamine	70		7.164					
35 DFTPP								
36 4-Methylphenol	108		7.212					
37 Hexachloroethane	117		7.274					19
38 Nitrobenzene	77		7.402					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
40 Isophorone	82		7.764					
41 2-Nitrophenol	139		7.873					
43 2,4-Dimethylphenol	107		7.987					9
45 Bis(2-chloroethoxy)methane	93		8.111					
44 Benzoic acid	105		8.168					
47 2,4-Dichlorophenol	162		8.268					9
48 1,2,4-Trichlorobenzene	180		8.348					
49 Naphthalene	128	8.486	8.458	0.028	53	92751	0.4631	
51 4-Chloroaniline	127		8.586					
52 Hexachlorobutadiene	225		8.653					9
54 Caprolactam	113		9.114					
55 4-Chloro-3-methylphenol	107		9.371					
56 2-Methylnaphthalene	142	9.542	9.495	0.047	39	28684	0.2043	
57 1-Methylnaphthalene	142	9.689	9.637	0.052	40	22734	0.1758	
58 Hexachlorocyclopentadiene	237		9.728					
59 1,2,4,5-Tetrachlorobenzene	216		9.747					
60 2,4,6-Trichlorophenol	196		9.951					19
61 2,4,5-Trichlorophenol	196		10.037					19
62 1,1'-Biphenyl	154	10.251	10.198	0.053	47	14164	0.0906	
63 2-Chloronaphthalene	162		10.241					
64 Phenyl ether	170		10.360					
65 2-Nitroaniline	65		10.417					
67 Dimethyl phthalate	163		10.693					9
68 2,6-Dinitrotoluene	165		10.783					
69 Acenaphthylene	152		10.821					
70 3-Nitroaniline	138		11.045					
71 Acenaphthene	153		11.083					
72 2,4-Dinitrophenol	184		11.211					
73 Dibenzofuran	168	11.411	11.349	0.062	68	18380	0.1144	
74 2,4-Dinitrotoluene	165		11.387					
75 4-Nitrophenol	109		11.421					
76 2,3,4,6-Tetrachlorophenol	232		11.563					
78 Diethyl phthalate	149		11.744					9
79 Fluorene	166		11.853					
80 4-Chlorophenyl phenyl ether	204		11.868					
81 4-Nitroaniline	138		11.953					
82 4,6-Dinitro-2-methylphenol	198		11.982					
83 N-Nitrosodiphenylamine	169		12.048					
16 1,2-Diphenylhydrazine	77		12.086					
85 Azobenzene	77		12.086					
86 Benzophenone	105		12.110					
89 4-Bromophenyl phenyl ether	248		12.519					19
91 Hexachlorobenzene	284		12.581					9
93 Atrazine	200		12.771					
94 Pentachlorophenol	266		12.852					
97 Phenanthrene	178	13.123	13.080	0.043	67	77385	0.4048	
98 Anthracene	178		13.142					
99 Carbazole	167		13.351					
102 Di-n-butyl phthalate	149		13.741					9
104 Fluoranthene	202	14.402	14.364	0.038	52	62420	0.3298	
106 Pyrene	202	14.626	14.588	0.038	86	45973	0.2586	
108 Butyl benzyl phthalate	149		15.196					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
109 3,3'-Dichlorobenzidine	252		15.691					
110 Bis(2-ethylhexyl) phthalate	149	15.715	15.696	0.019	71	37364	0.2761	
111 Benzo[a]anthracene	228		15.705					
112 Chrysene	228	15.758	15.743	0.015	14	36217	0.2233	
113 Di-n-octyl phthalate	149		16.238					9
114 Benzo[b]fluoranthene	252		16.647					
115 Benzo[k]fluoranthene	252		16.666					
116 Benzo[a]pyrene	252		16.951					9
117 Indeno[1,2,3-cd]pyrene	276		18.093					
118 Dibenz(a,h)anthracene	278		18.093					
119 Benzo[g,h,i]perylene	276		18.411					
S 120 3 & 4 Methylphenol	108		0.000					

QC Flag Legend

Processing Flags
1 - Missing Peaks
9 - Failed A Reference Spectral Test

Review Flags
M - Manually Integrated

TestAmerica Buffalo
Tentatively Identified Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3150.D		
Lims ID:	480-29598-B-9-A	Client ID:	OC-SB-529-0.0/1.0-XXX
Inject. Date:	18-Dec-2012 20:16:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	480-0017654-021		
Misc. Info.:			
Operator:	ANM	Instrument ID:	HP5973X
Injection Vol:	1.0 ul	ALS Bottle#:	22
Lims Batch ID:	96347	Lims Sample ID:	21
Detector:	MS SCAN		
Method:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X-8270LL.m		
Last Update:	09-Mar-2013 09:11:13	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:	10		
Process Host:	XAWRK034		

First Level Reviewer: mckernar Date: 19-Dec-2012 09:28:14

Tentative Identified Compound Results

RT	Response	Amount ng/uL	Quant Cpnd	Qual	Lib Entry	Flags
498-60-2 3-Furaldehyde						
4.054	8981062	18.2	1	90	41388	
17429-4-8 2-Pentanone, 5-methoxy-						
4.202	67874858	137.5	1	42	5841	
121-33-5 Vanillin						
10.374	3843094	6.41	3	94	123636	
121-34-6 Benzoic acid, 4-hydroxy-3-methoxy-						
11.673	6653543	11.1	3	96	73750	
57-10-3 n-Hexadecanoic acid						
13.770	6865756	14.4	4	99	114901	
112-79-8 9-Octadecenoic acid, (E)-						
14.469	6084932	10.6	5	52	13227	
630-3-5 Nonacosane						
16.671	9015009	22.6	6	99	112560	
77899-10-6 (Z)14-Tricosenyl formate						
17.113	3694618	9.28	6	93	14168	
630-4-6 Hentriacontane						
17.275	8176361	20.5	6	98	112561	
1000158-8-0 .beta.-Humulene						
18.773	2566249	6.45	6	64	48355	

Quantitation Compounds

Compound	RT	Response	Amount ng/uL

Report Date: 09-Mar-2013 09:11:26 Chrom Revision: 2.0 01-Feb-2013 10:03:10
Data File: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3150.D

Compound	RT	Response	Amount ng/uL
* 1 1,4-Dichlorobenzene-d4	6.541	2468345	5.00
* 3 Acenaphthene-d10	11.088	2996312	5.00
* 4 Phenanthrene-d10	13.094	2380981	5.00
* 5 Chrysene-d12	15.734	2862840	5.00
* 6 Perylene-d12	17.008	1990777	5.00

QC Flag Legend

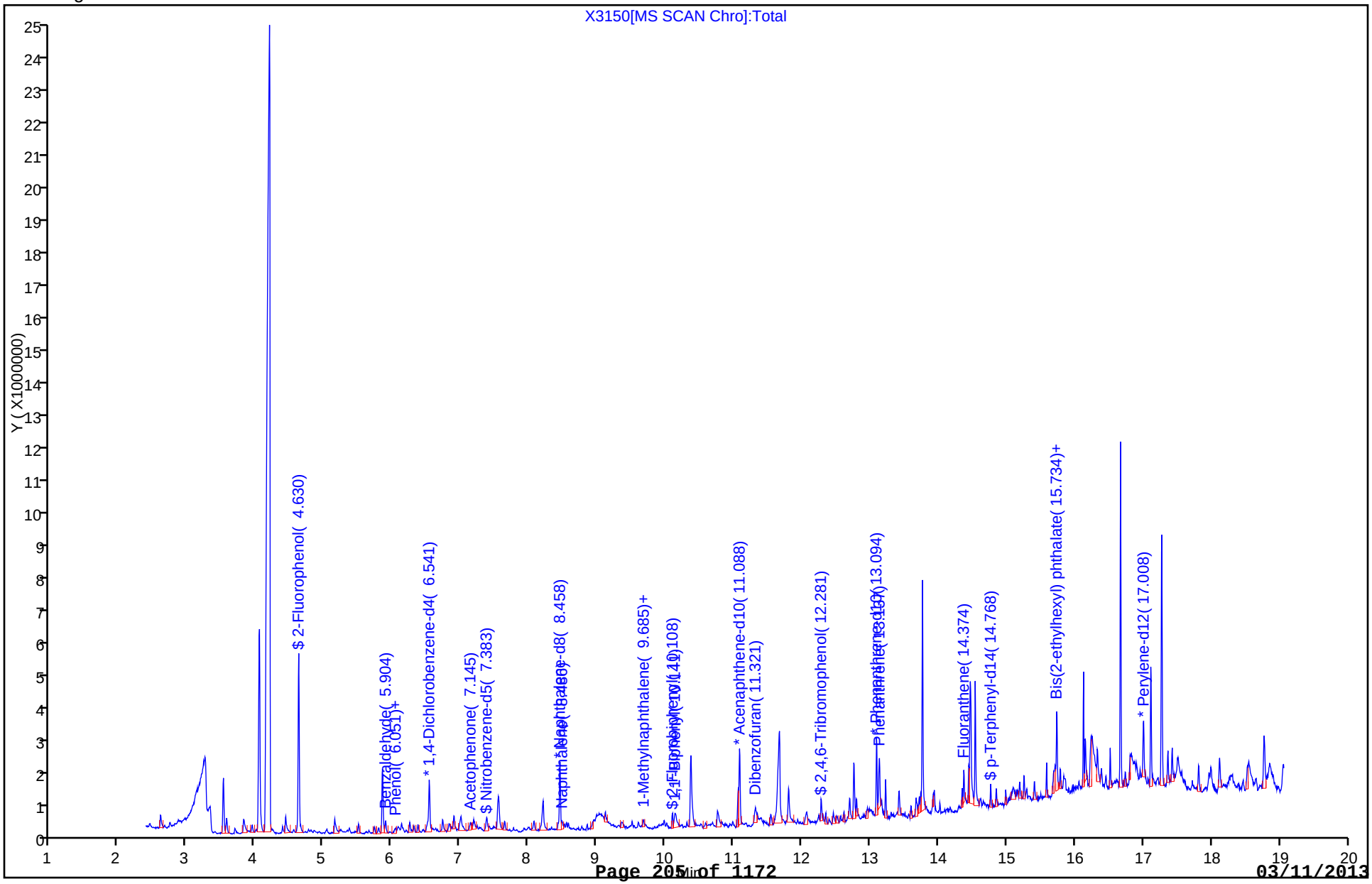
Processing Flags

Report Date: 09-Mar-2013 09:11:26 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3150.D		
Injection Date:	18-Dec-2012 20:16:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-529-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	21
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Y Scaling:

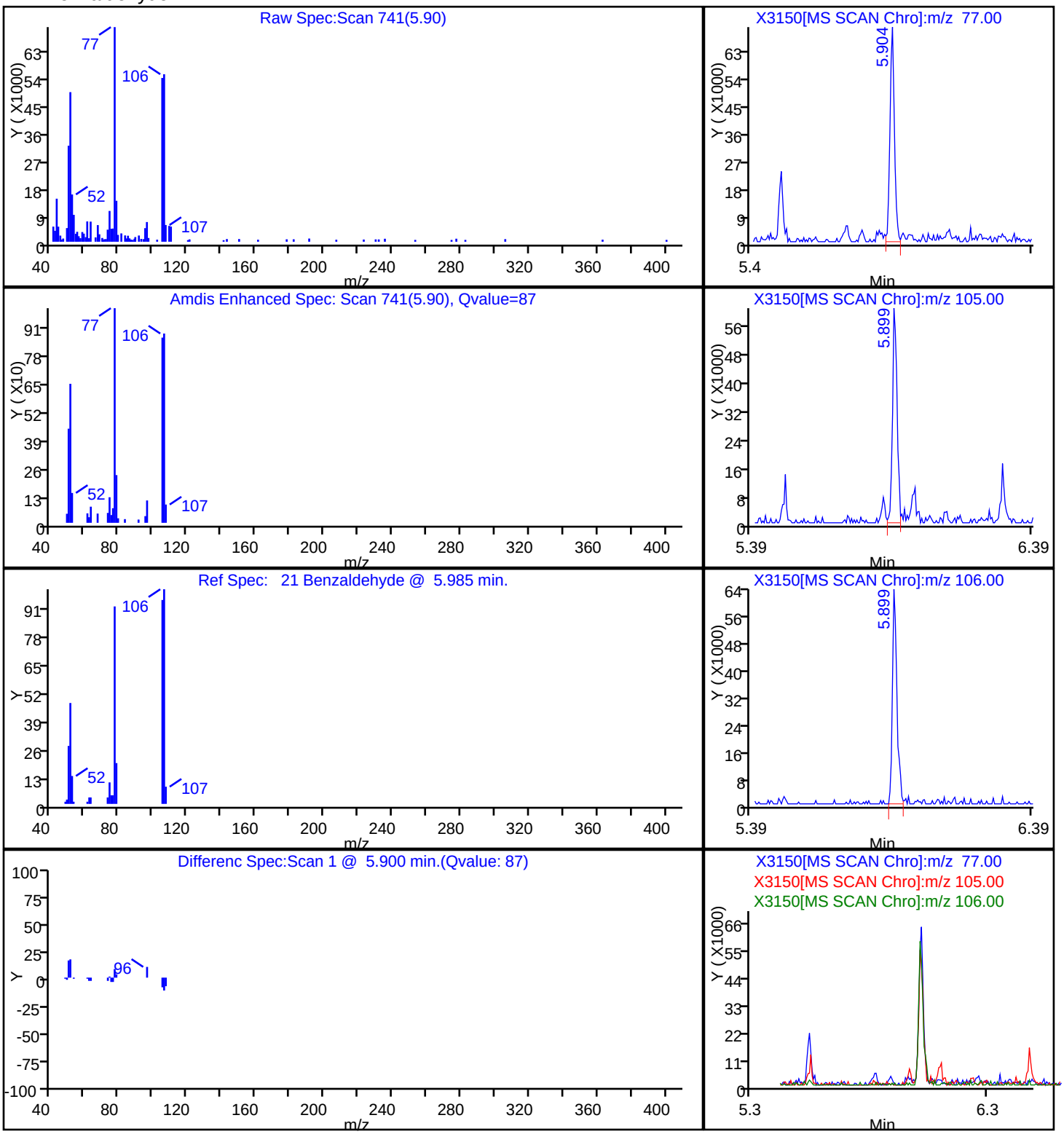


Report Date: 09-Mar-2013 09:11:26 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3150.D		
Injection Date:	18-Dec-2012 20:16:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-529-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	21
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

21 Benzaldehyde

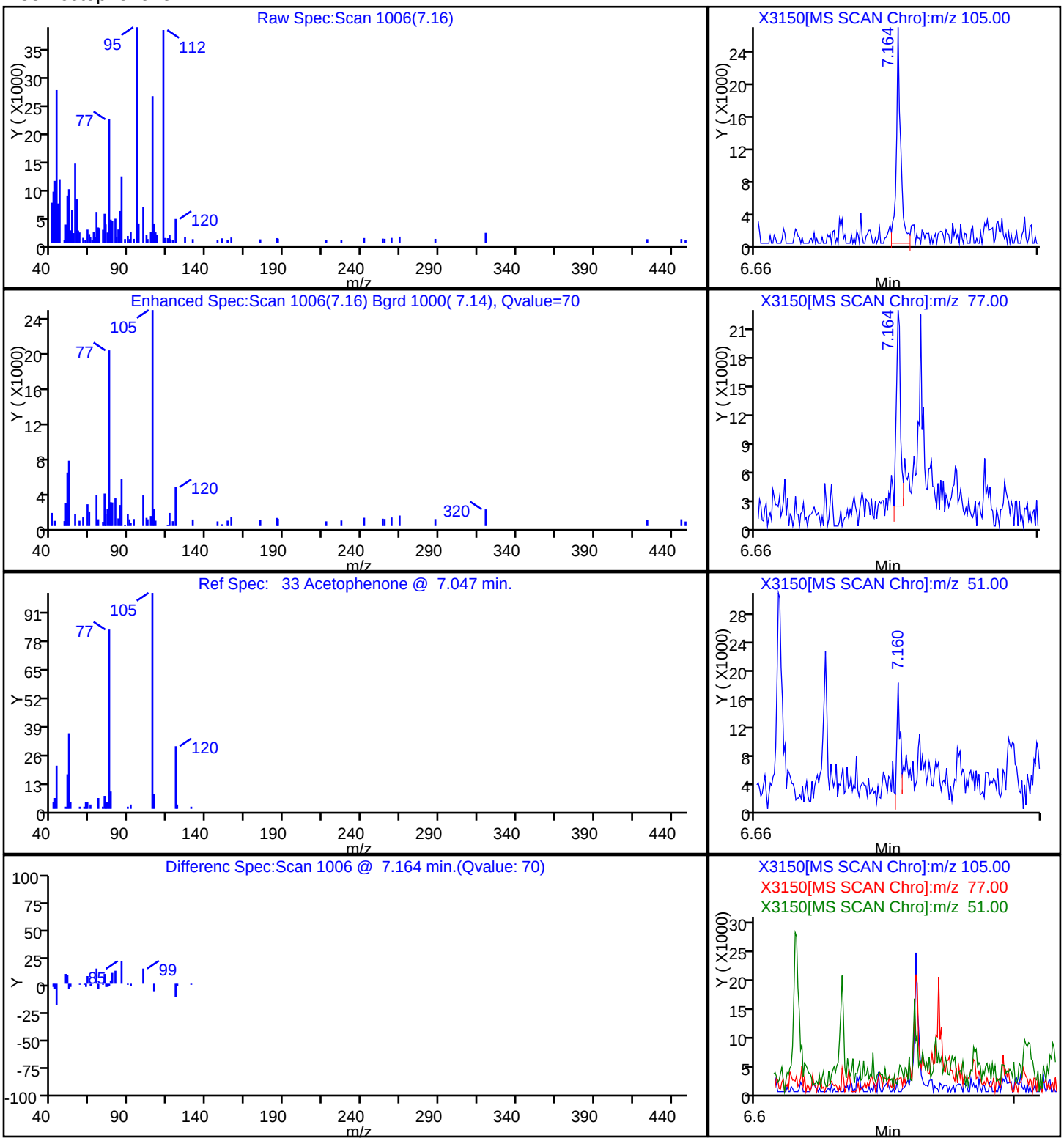


Report Date: 09-Mar-2013 09:11:26 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3150.D		
Injection Date:	18-Dec-2012 20:16:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-529-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	21
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

33 Acetophenone

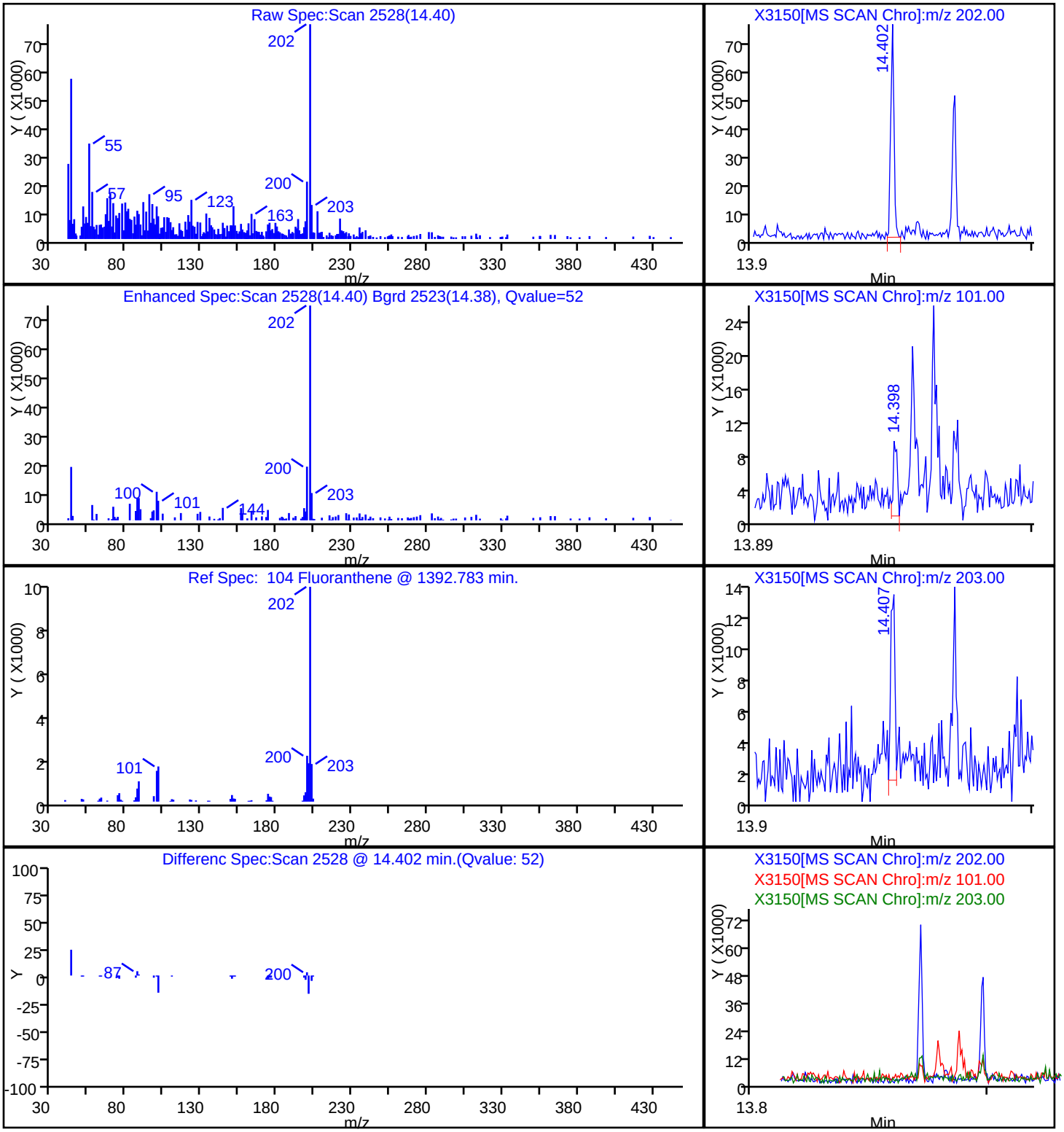


Report Date: 09-Mar-2013 09:11:27 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3150.D		
Injection Date:	18-Dec-2012 20:16:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-529-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	21
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

104 Fluoranthene

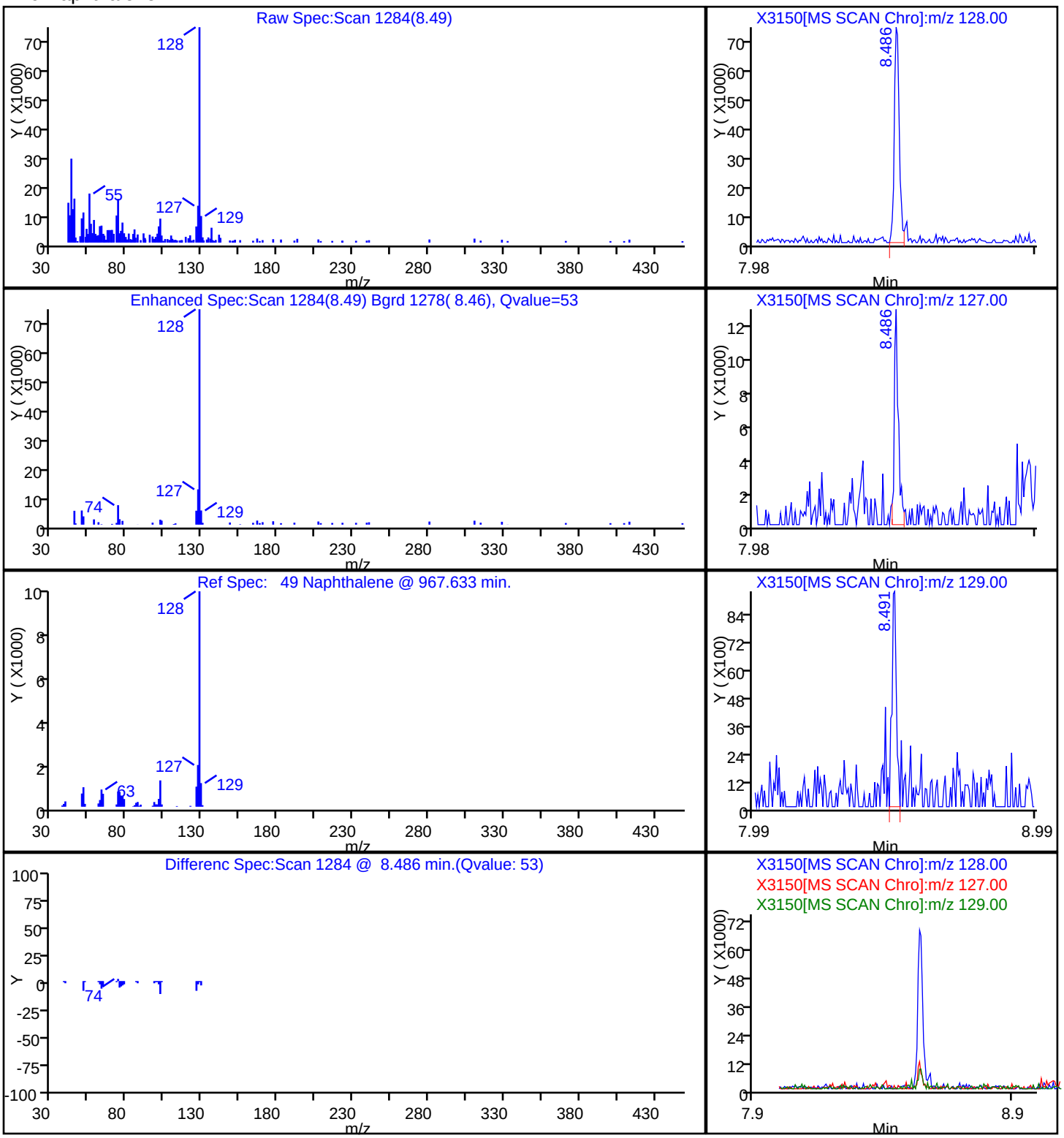


Report Date: 09-Mar-2013 09:11:26 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3150.D		
Injection Date:	18-Dec-2012 20:16:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-529-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	21
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

49 Naphthalene

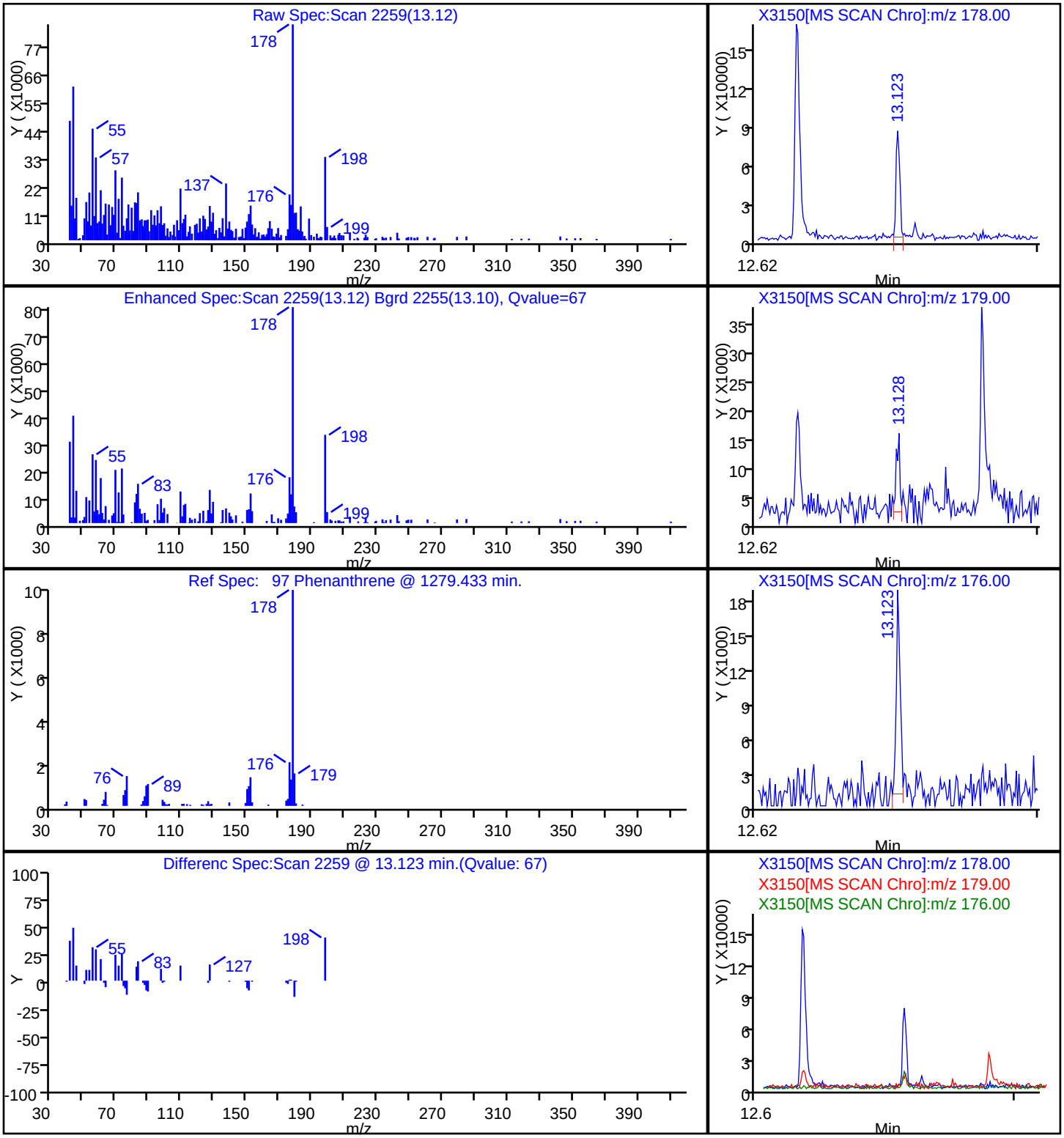


Report Date: 09-Mar-2013 09:11:27 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3150.D		
Injection Date:	18-Dec-2012 20:16:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-529-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	21
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

97 Phenanthrene

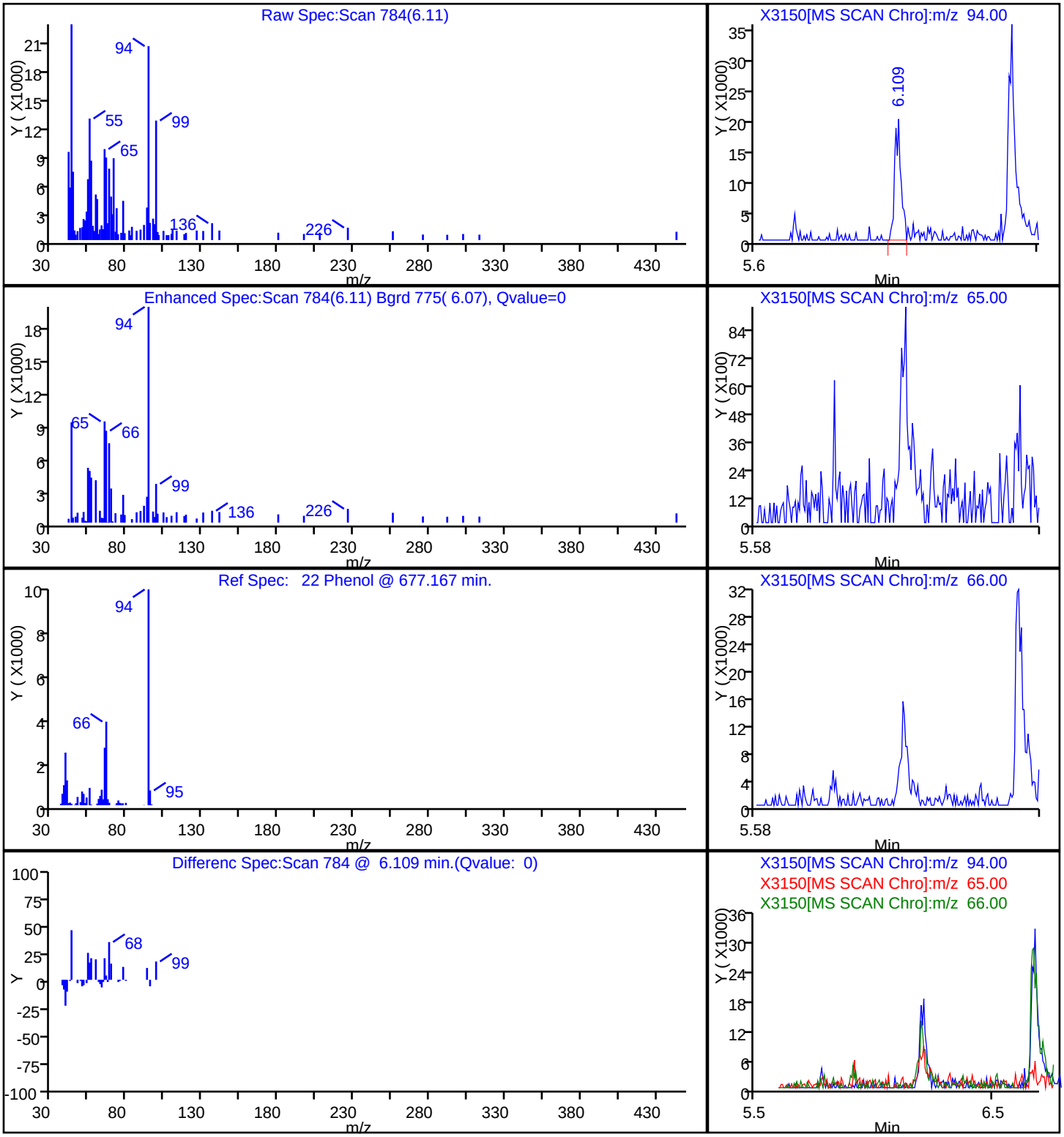


Report Date: 09-Mar-2013 09:11:26 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3150.D		
Injection Date:	18-Dec-2012 20:16:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-529-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	21
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

22 Phenol



Manual Integration/User Assign Peak Report

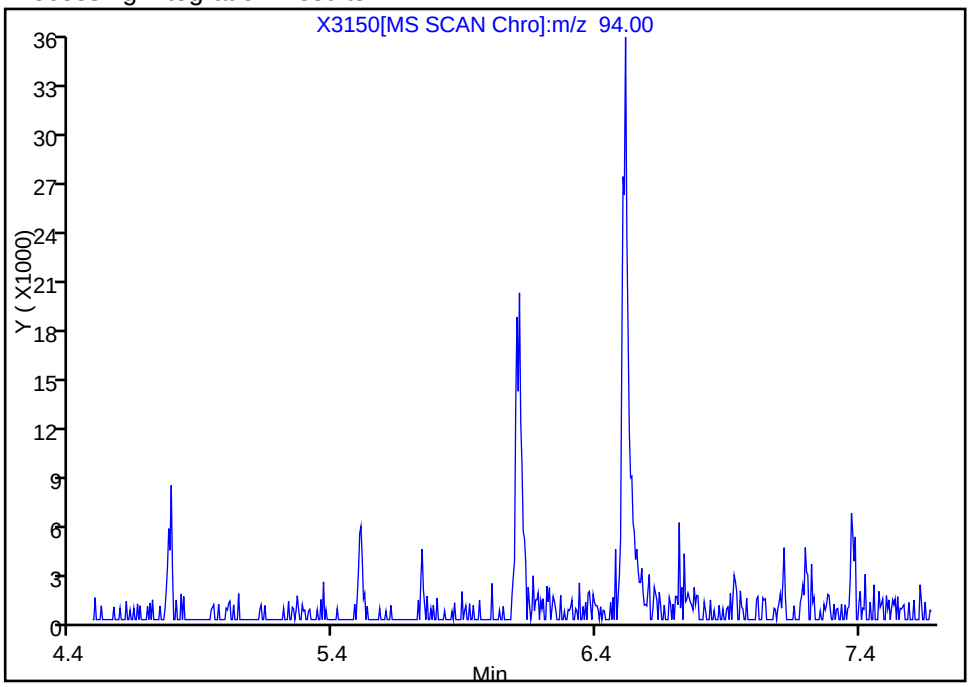
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3150.D		
Injection Date:	18-Dec-2012 20:16:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-529-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	21
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: 6.08

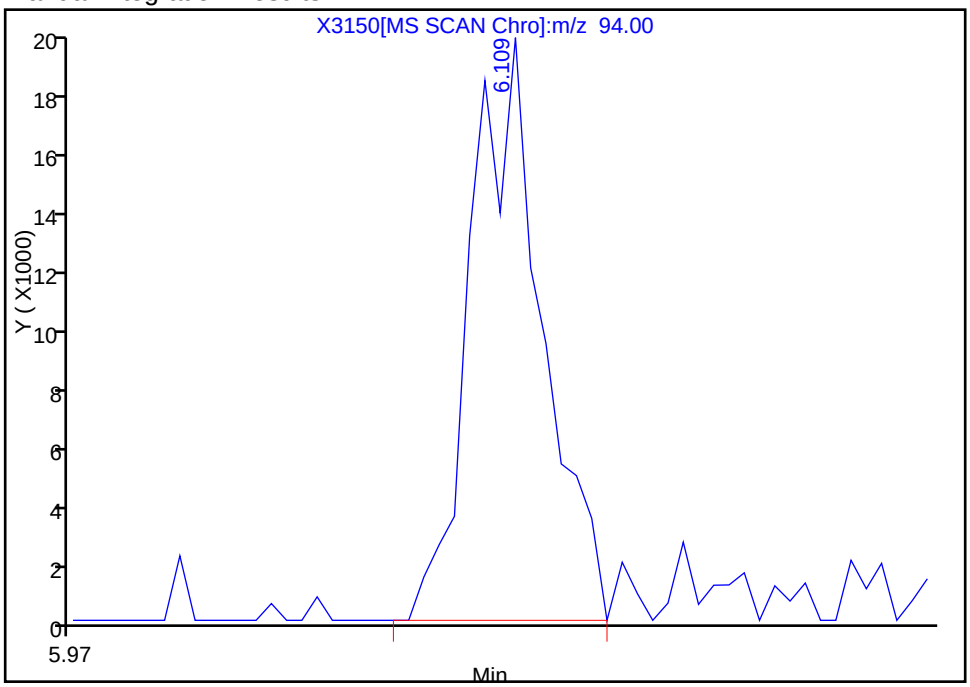
Processing Integration Results

Not Detected
Expected RT: 6.08



Manual Integration Results

RT: 6.11
Response: 30997
Amount: 0.437873



Reviewer: mckernar, 19-Dec-2012 09:28:14
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

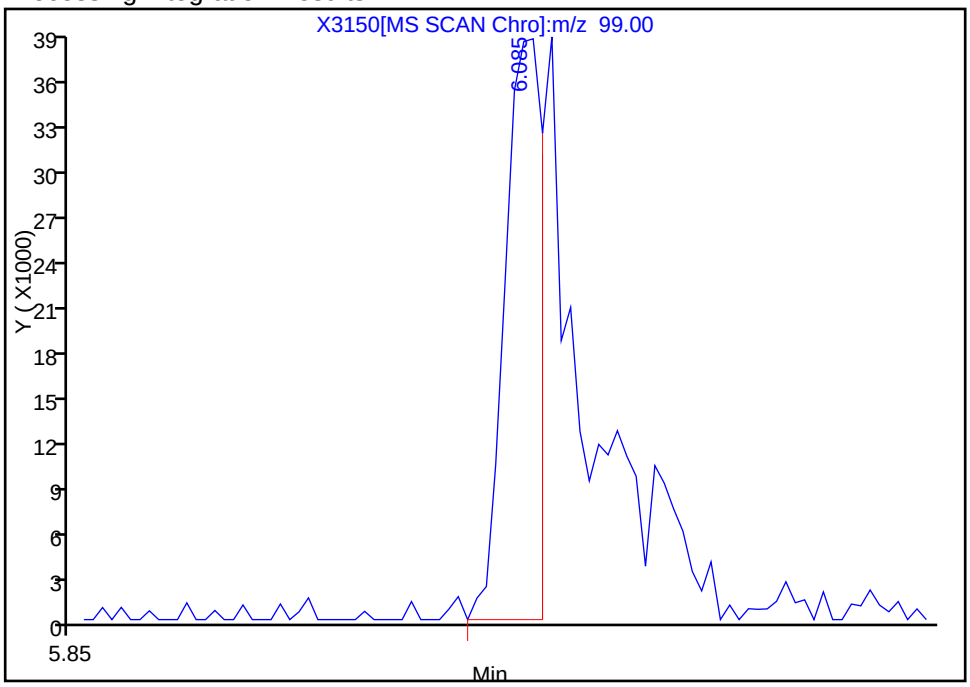
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3150.D		
Injection Date:	18-Dec-2012 20:16:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-529-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	21
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: 6.06

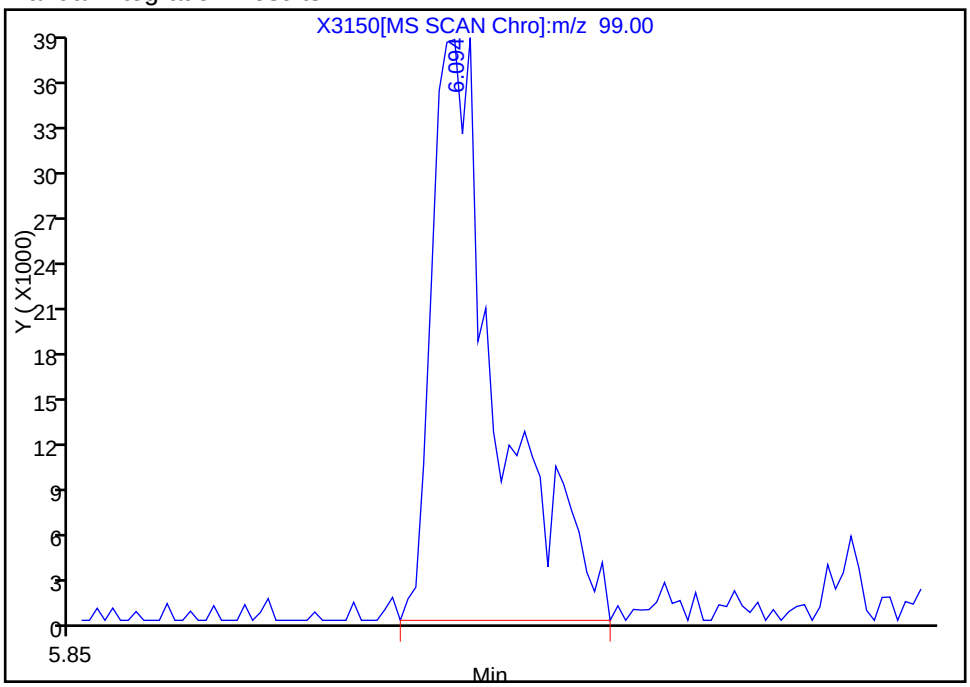
Processing Integration Results

RT: 6.08
Response: 50737
Amount: 0.731296



Manual Integration Results

RT: 6.09
Response: 106910
Amount: 1.665639



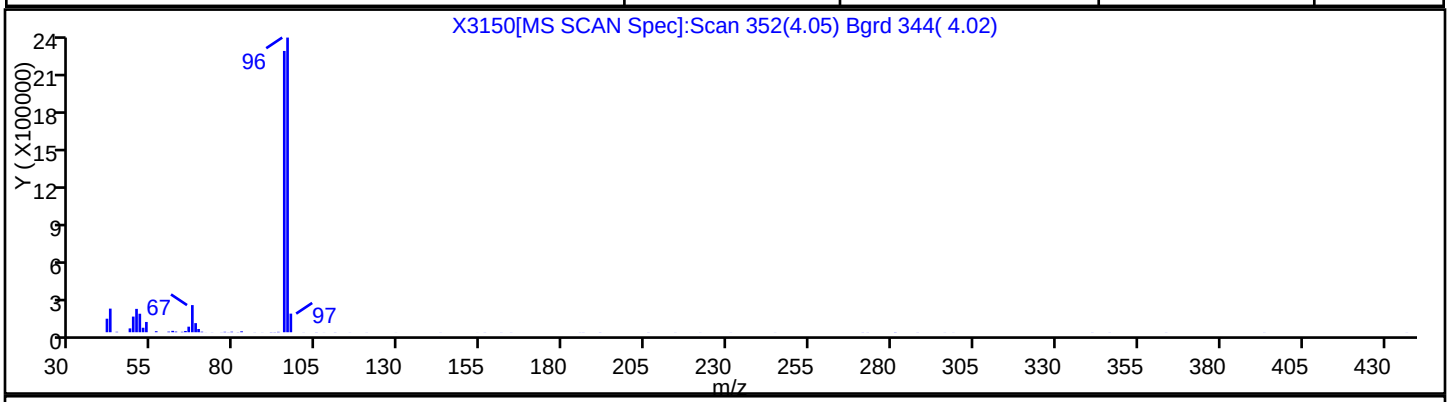
Reviewer: mckernar, 19-Dec-2012 09:28:14
Audit Action: Manually Integrated
Audit Reason: Assign Peak

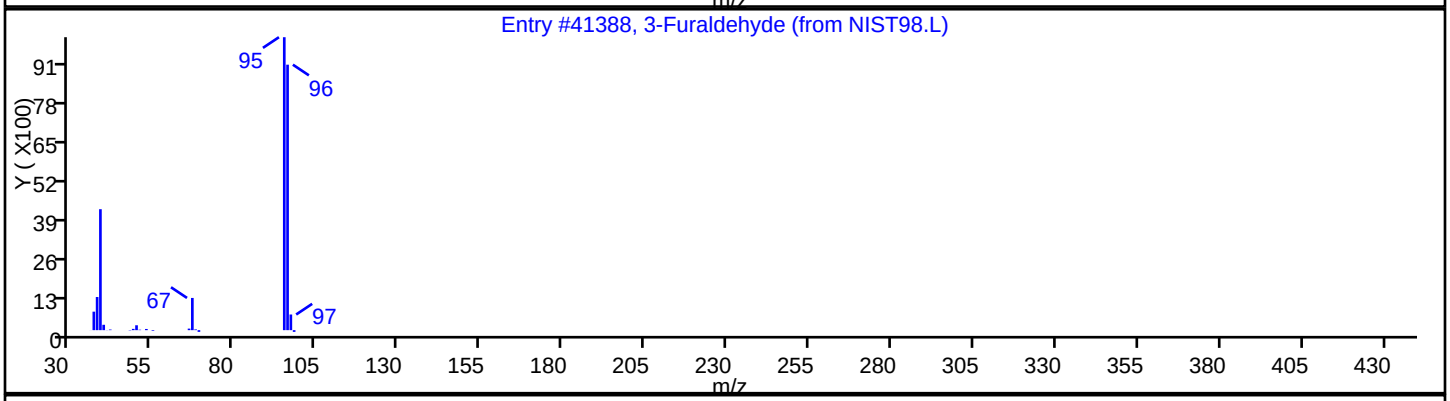
Report Date: 09-Mar-2013 09:11:28 Chrom Revision: 2.0 01-Feb-2013 10:03:10

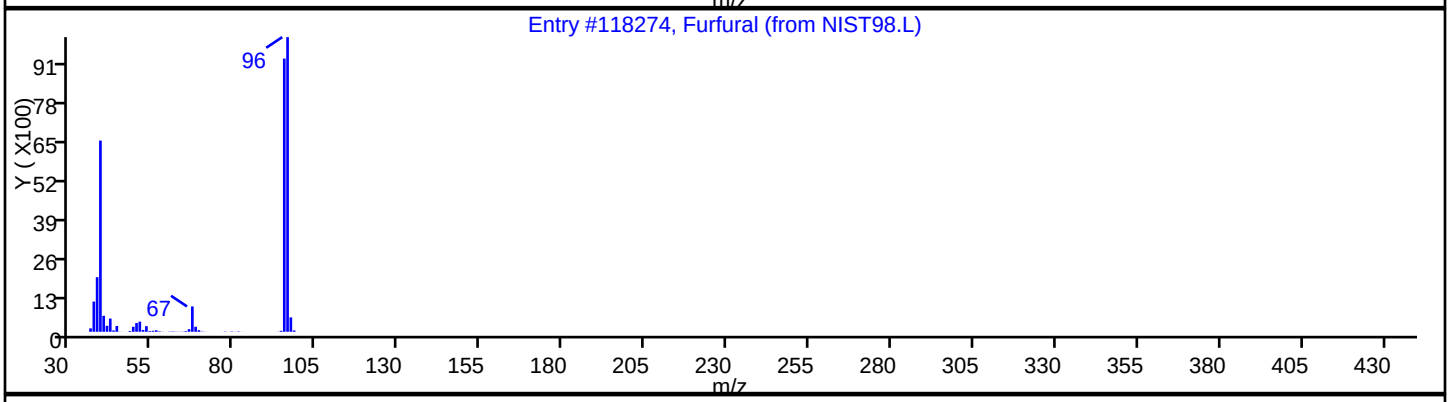
TestAmerica Buffalo

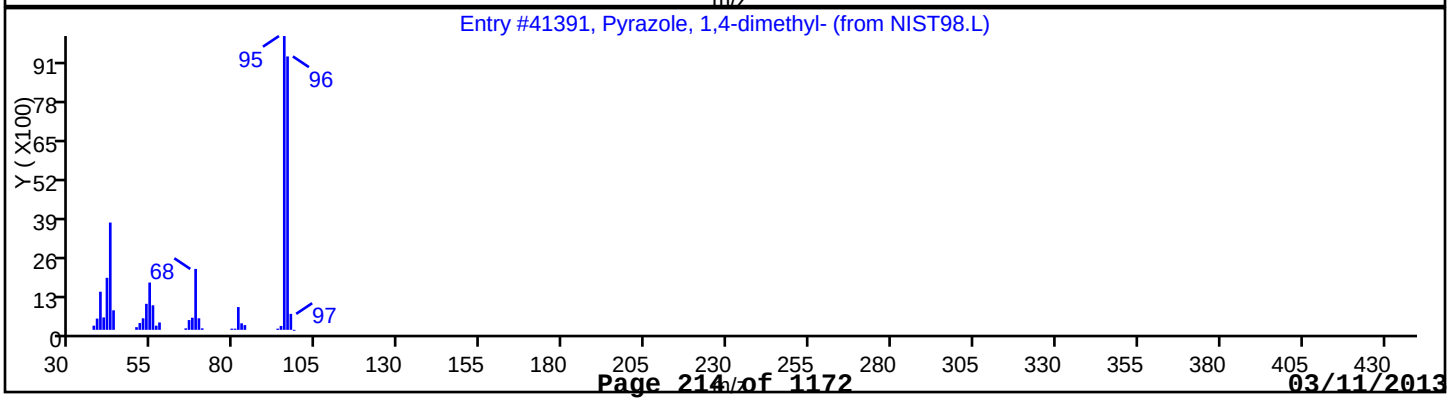
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3150.D		
Injection Date:	18-Dec-2012 20:16:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-529-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	21
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
3-Furaldehyde	498-60-2	NIST98.L	41388	90
Furfural	98-1-1	NIST98.L	118274	90
Pyrazole, 1,4-dimethyl-	1072-68-0	NIST98.L	41391	80







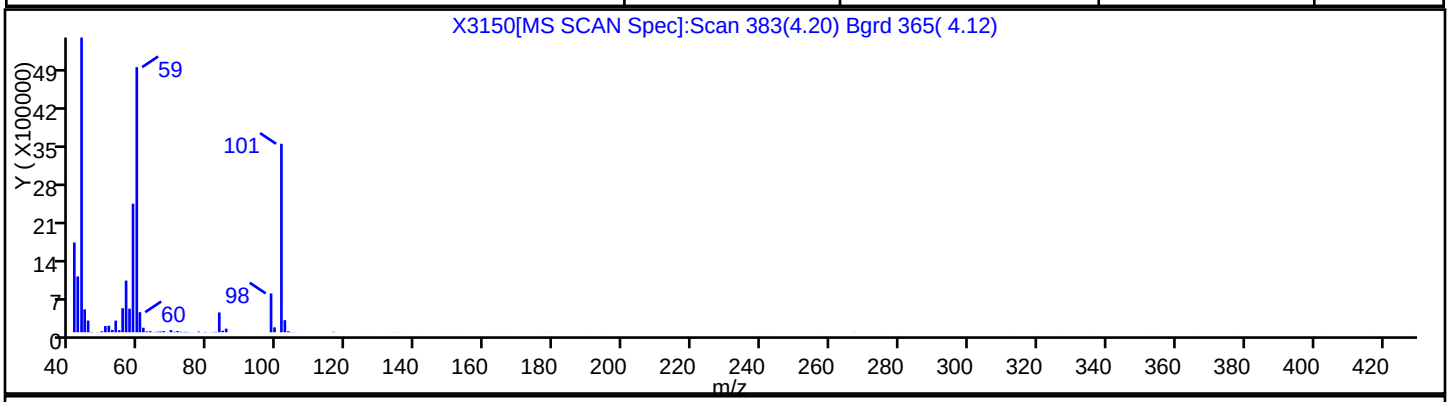


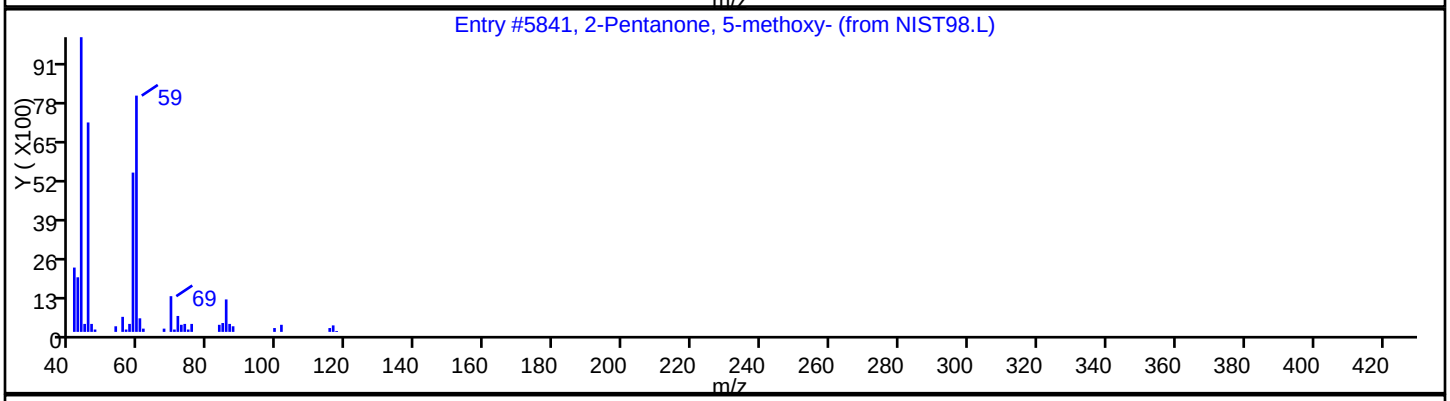
Report Date: 09-Mar-2013 09:11:28 Chrom Revision: 2.0 01-Feb-2013 10:03:10

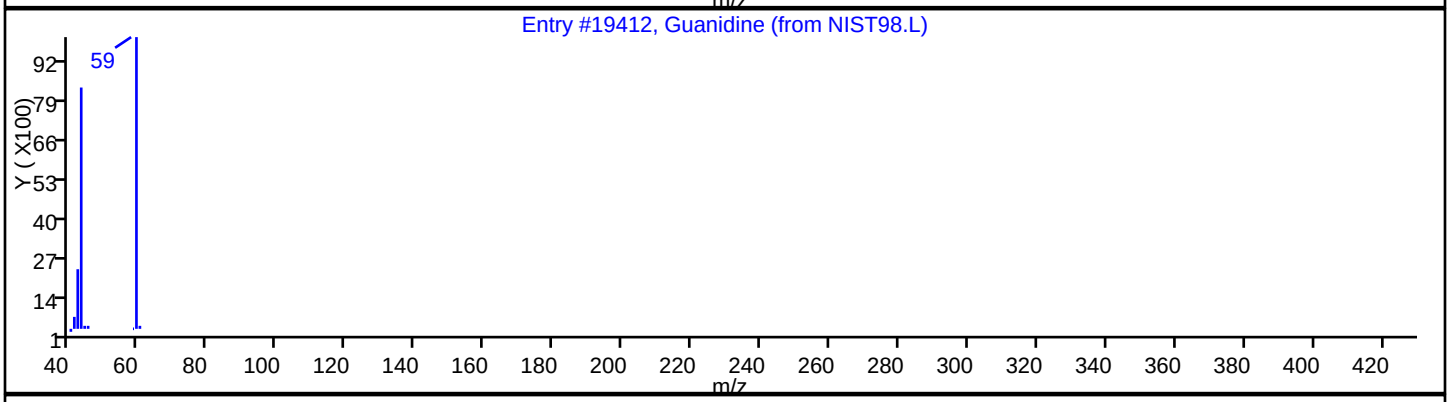
TestAmerica Buffalo

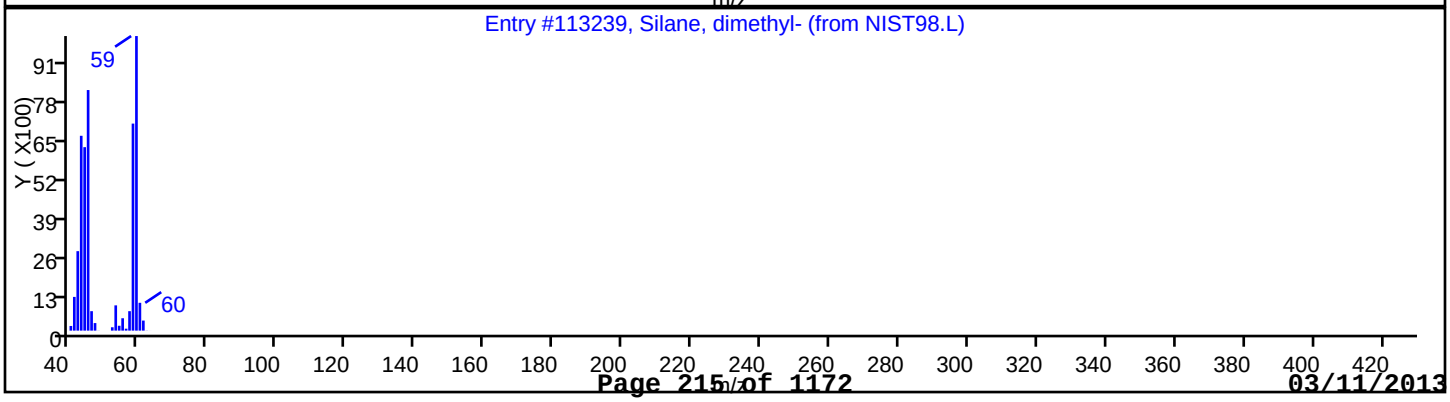
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3150.D		
Injection Date:	18-Dec-2012 20:16:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-529-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	21
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
2-Pentanone, 5-methoxy-	17429-4-8	NIST98.L	5841	42
Guanidine	113-0-8	NIST98.L	19412	38
Silane, dimethyl-	1111-74-6	NIST98.L	113239	38







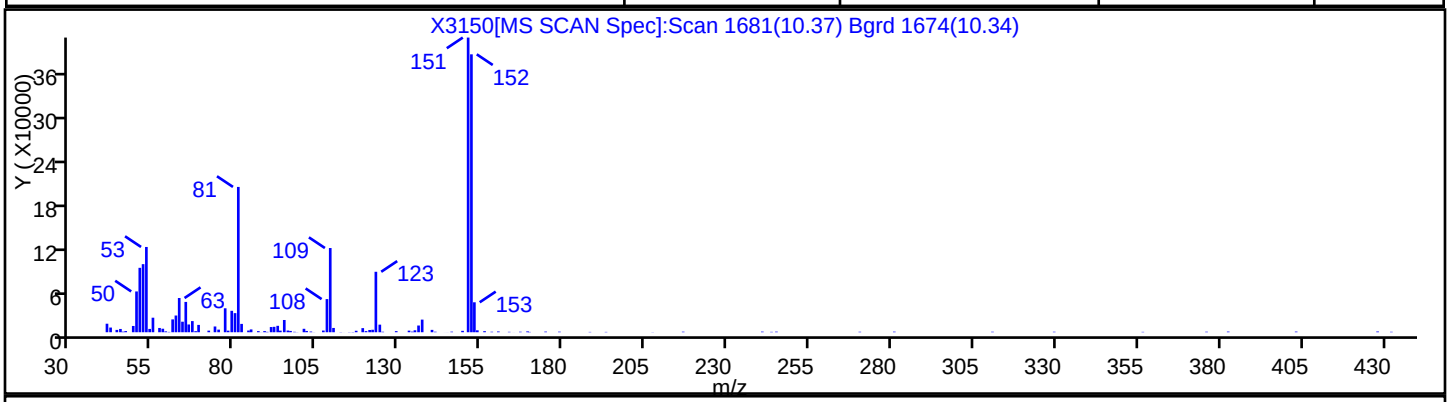


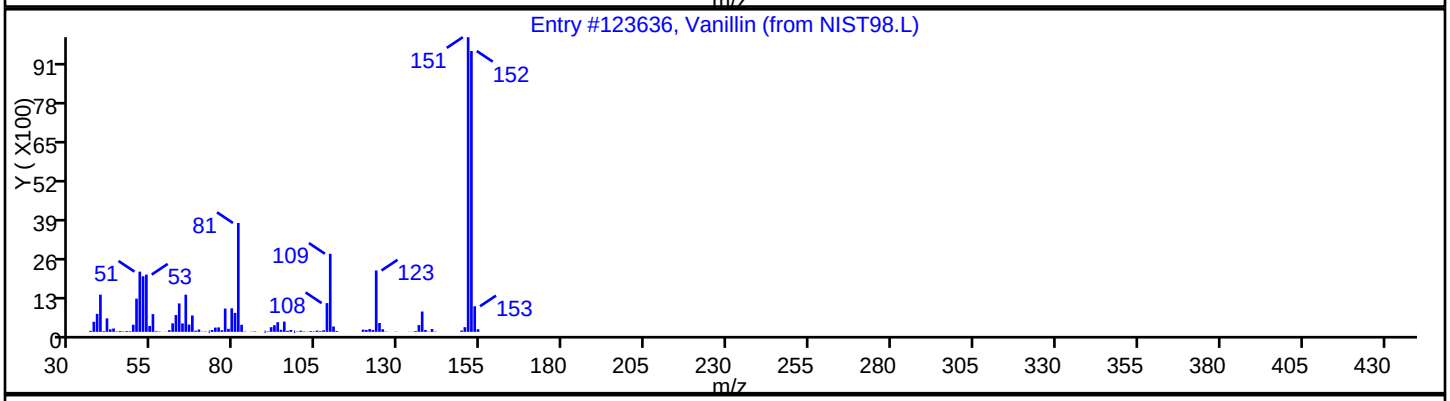
Report Date: 09-Mar-2013 09:11:28 Chrom Revision: 2.0 01-Feb-2013 10:03:10

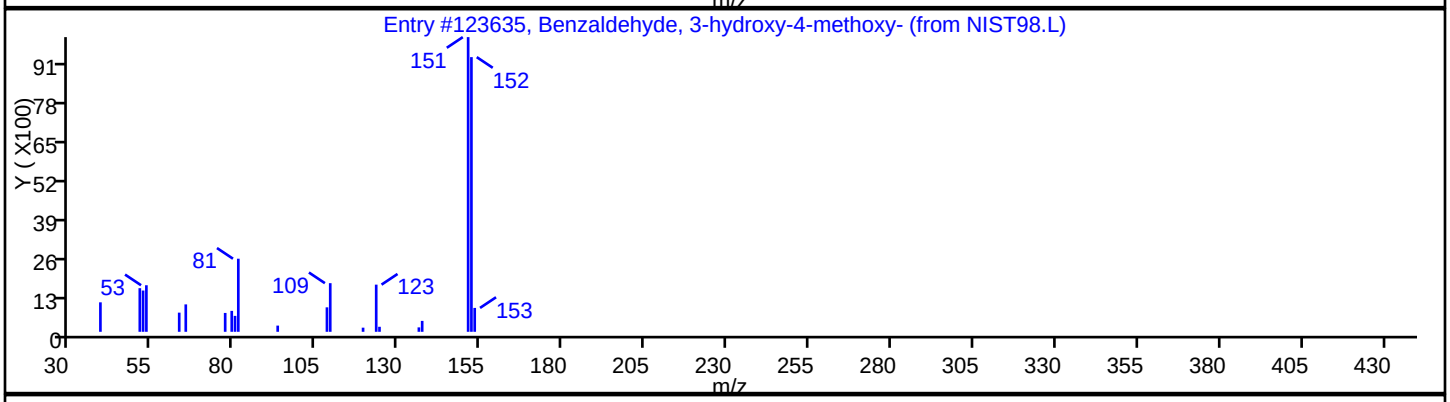
TestAmerica Buffalo

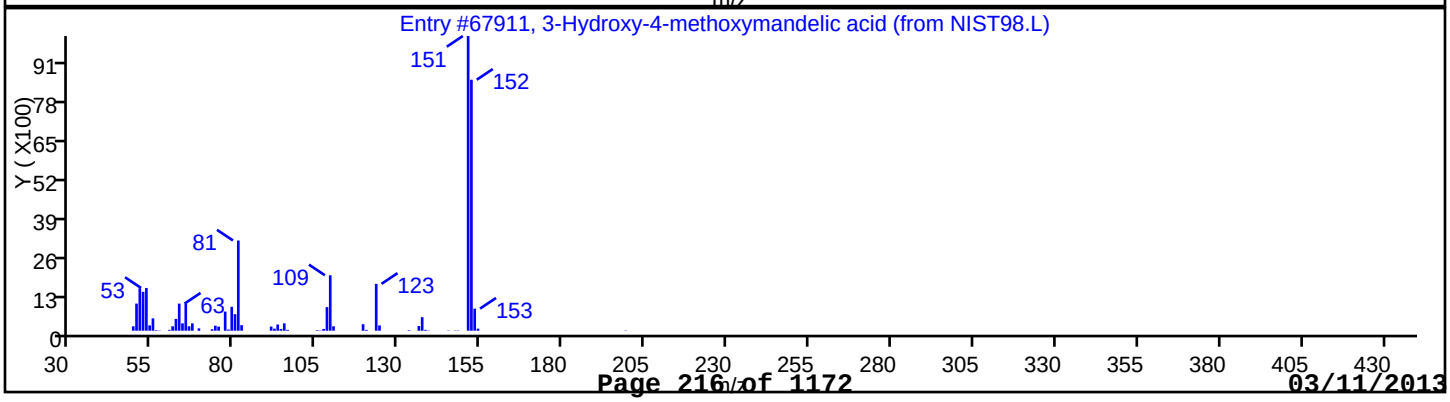
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3150.D		
Injection Date:	18-Dec-2012 20:16:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-529-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	21
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Vanillin	121-33-5	NIST98.L	123636	94
Benzaldehyde, 3-hydroxy-4-methoxy-	621-59-0	NIST98.L	123635	92
3-Hydroxy-4-methoxymandelic acid	3695-24-7	NIST98.L	67911	62







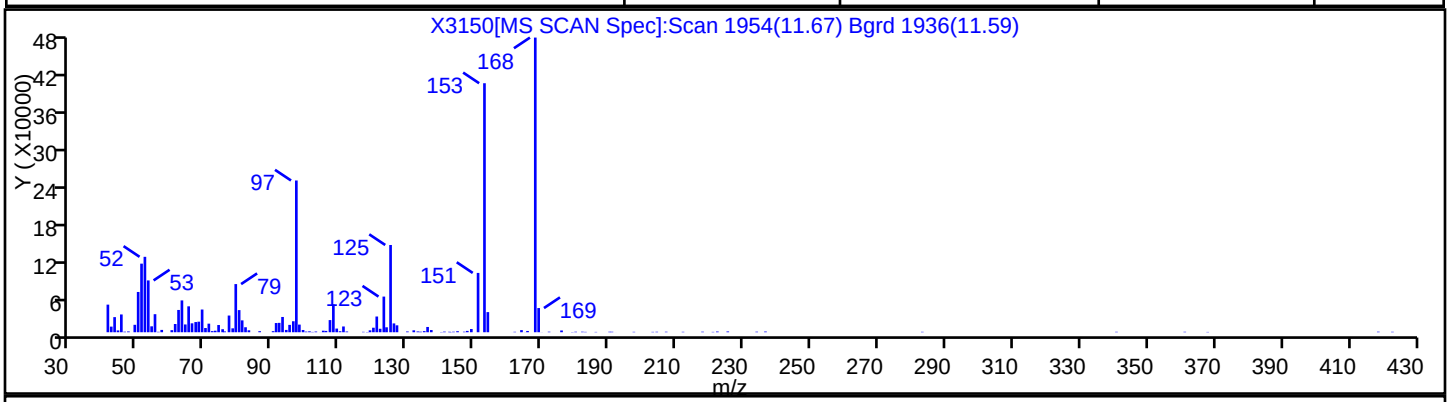


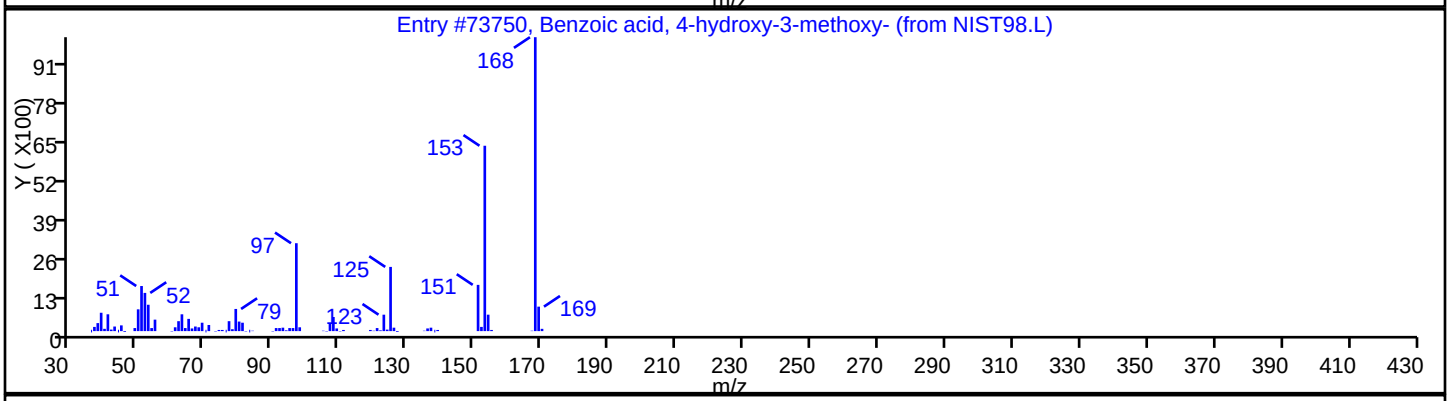
Report Date: 09-Mar-2013 09:11:28 Chrom Revision: 2.0 01-Feb-2013 10:03:10

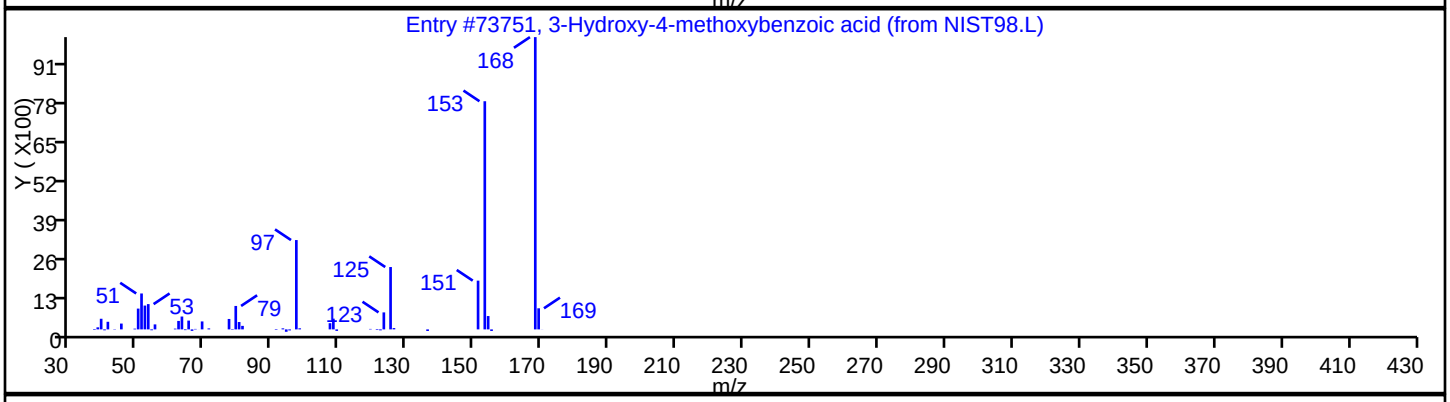
TestAmerica Buffalo

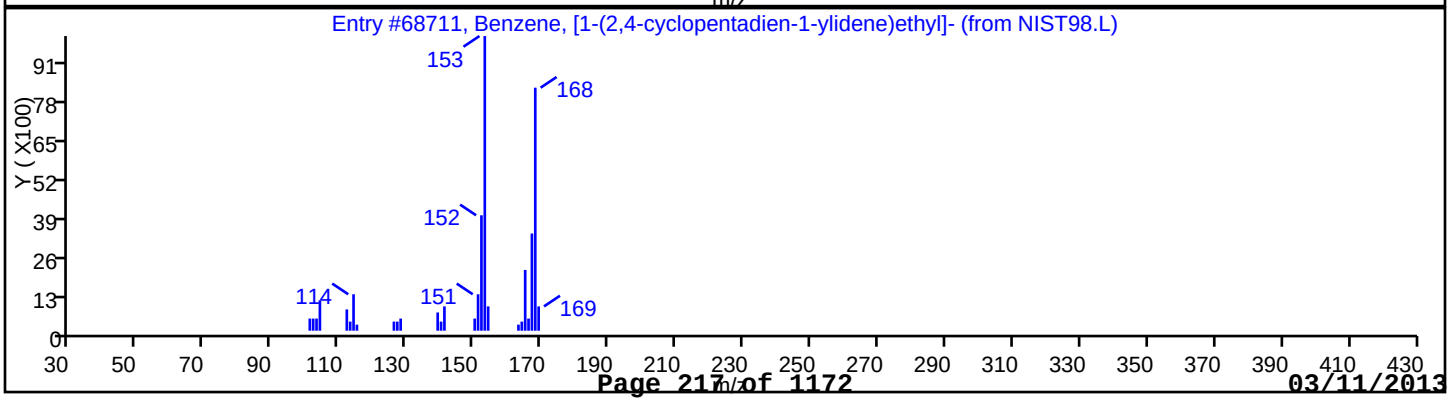
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3150.D		
Injection Date:	18-Dec-2012 20:16:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-529-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	21
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Benzoic acid, 4-hydroxy-3-methoxy-	121-34-6	NIST98.L	73750	96
3-Hydroxy-4-methoxybenzoic acid	645-8-9	NIST98.L	73751	95
Benzene, [1-(2,4-cyclopentadien-1-yliden	2320-32-3	NIST98.L	68711	64







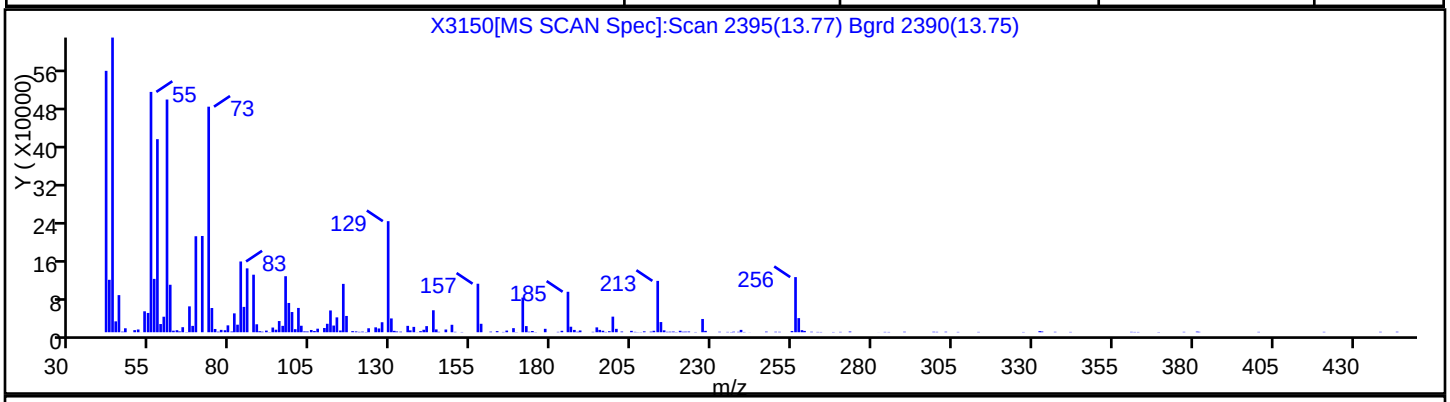


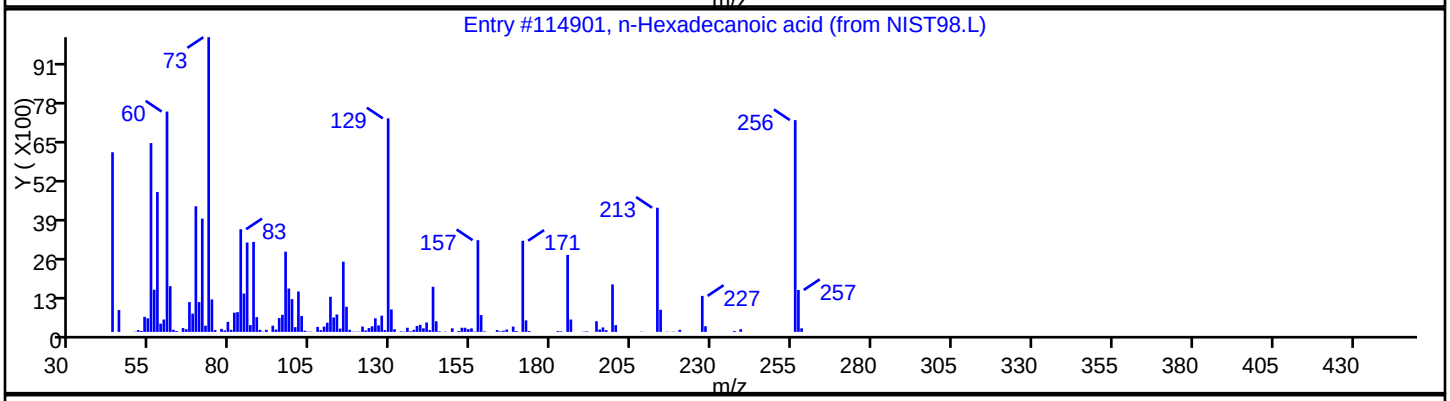
Report Date: 09-Mar-2013 09:11:28 Chrom Revision: 2.0 01-Feb-2013 10:03:10

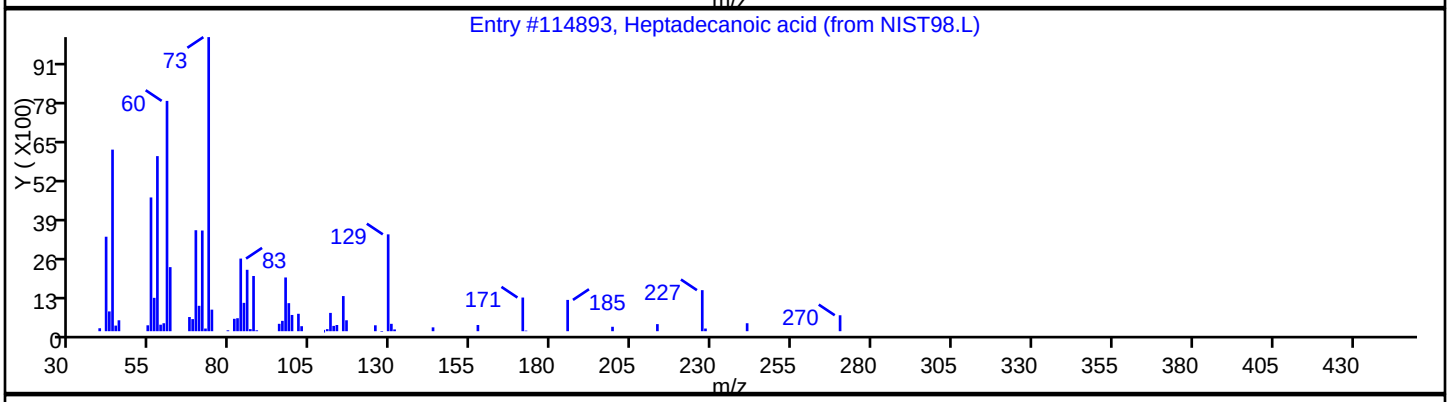
TestAmerica Buffalo

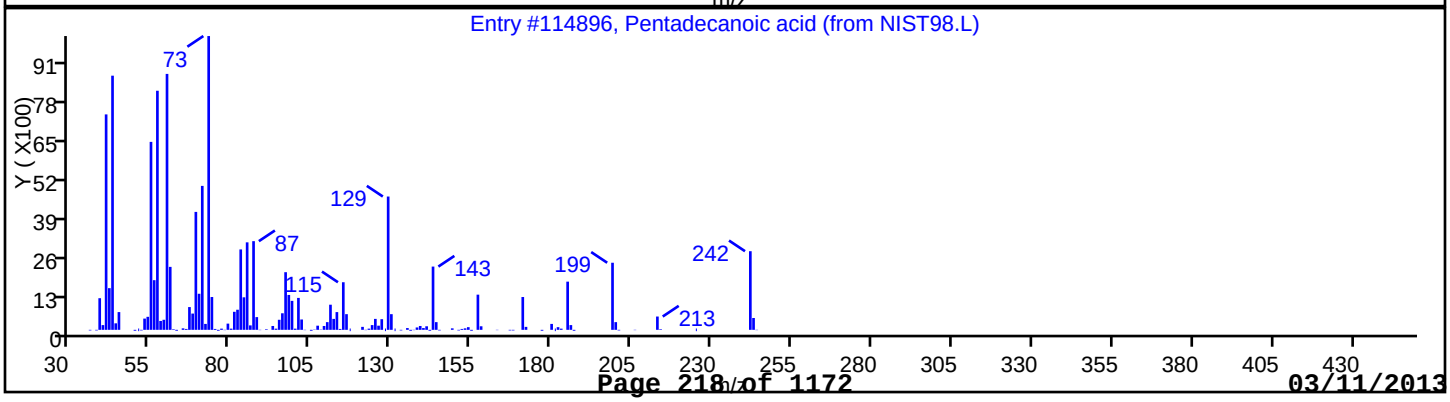
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3150.D		
Injection Date:	18-Dec-2012 20:16:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-529-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	21
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
n-Hexadecanoic acid	57-10-3	NIST98.L	114901	99
Heptadecanoic acid	506-12-7	NIST98.L	114893	87
Pentadecanoic acid	1002-84-2	NIST98.L	114896	83







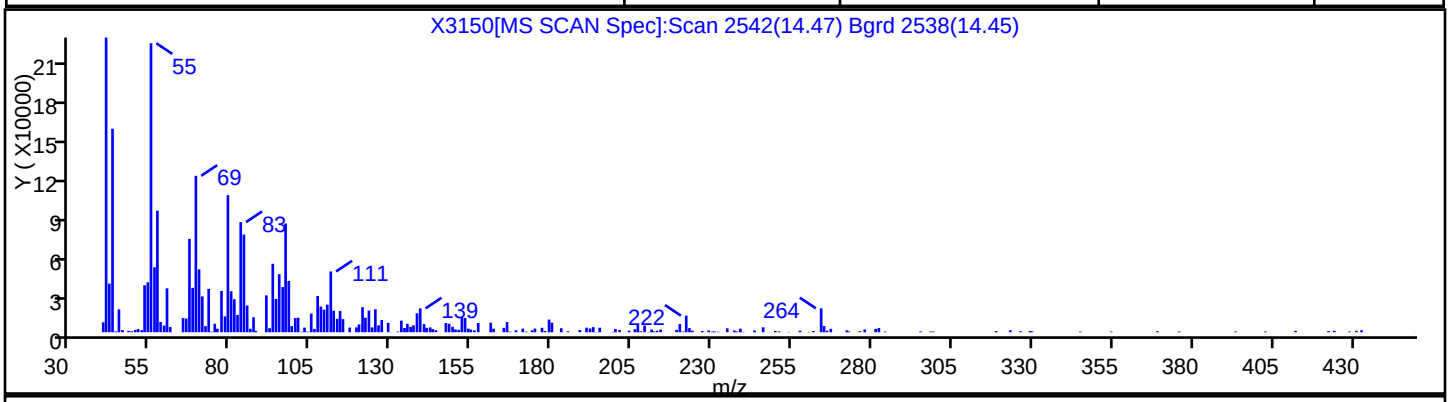


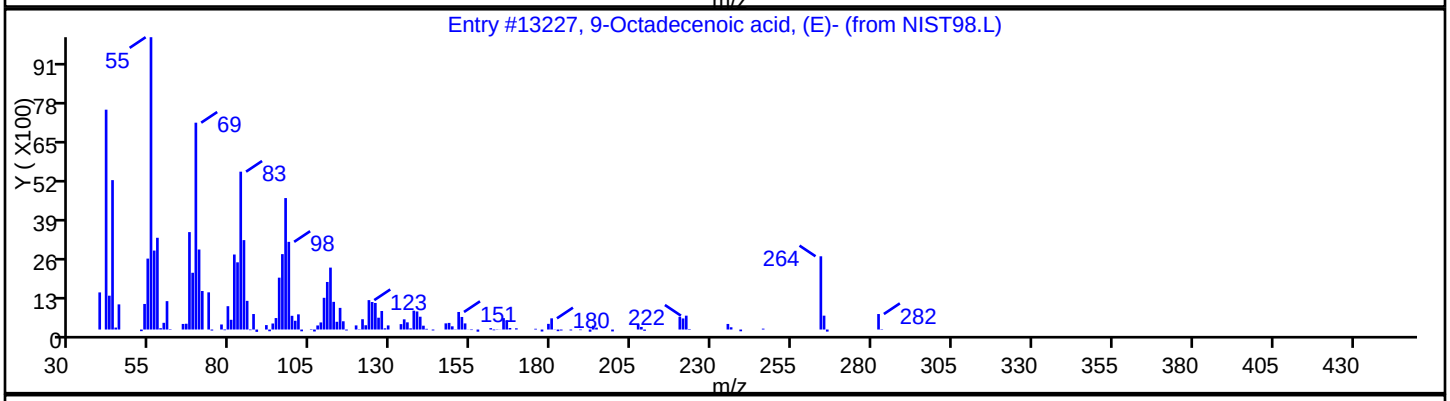
Report Date: 09-Mar-2013 09:11:28 Chrom Revision: 2.0 01-Feb-2013 10:03:10

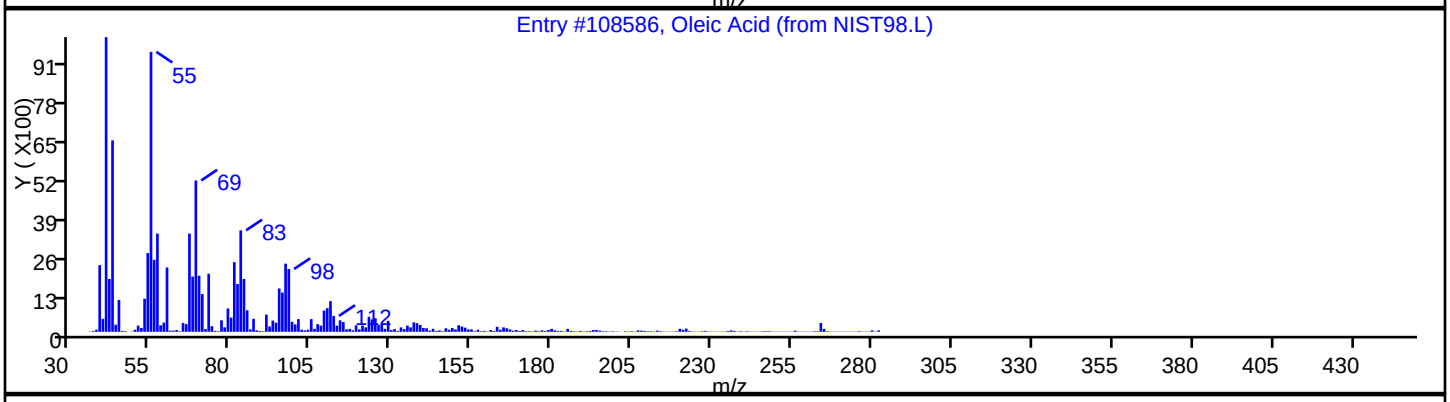
TestAmerica Buffalo

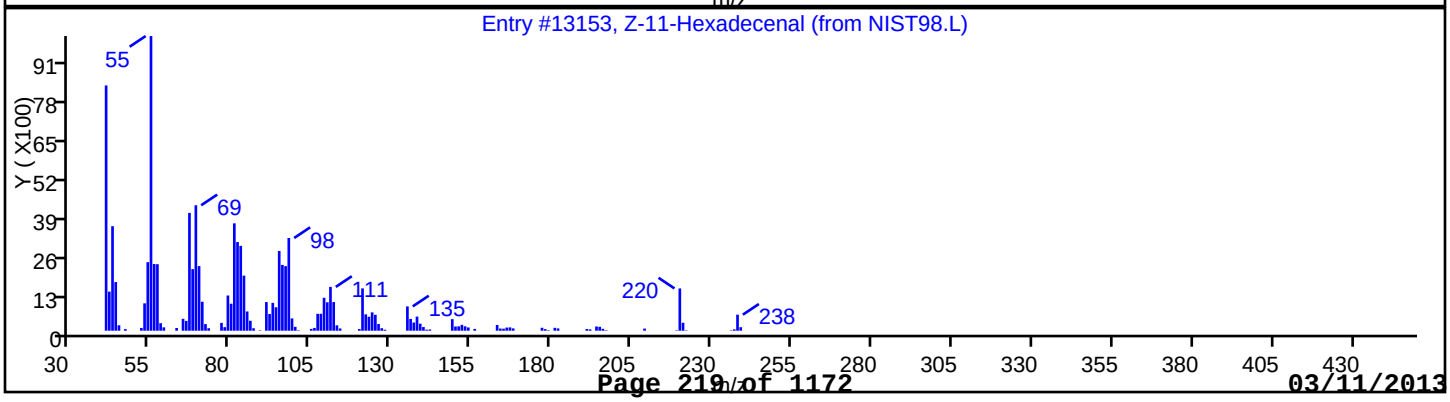
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3150.D		
Injection Date:	18-Dec-2012 20:16:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-529-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	21
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
9-Octadecenoic acid, (E)-	112-79-8	NIST98.L	13227	52
Oleic Acid	112-80-1	NIST98.L	108586	49
Z-11-Hexadecenal	1000130-86-7	NIST98.L	13153	38







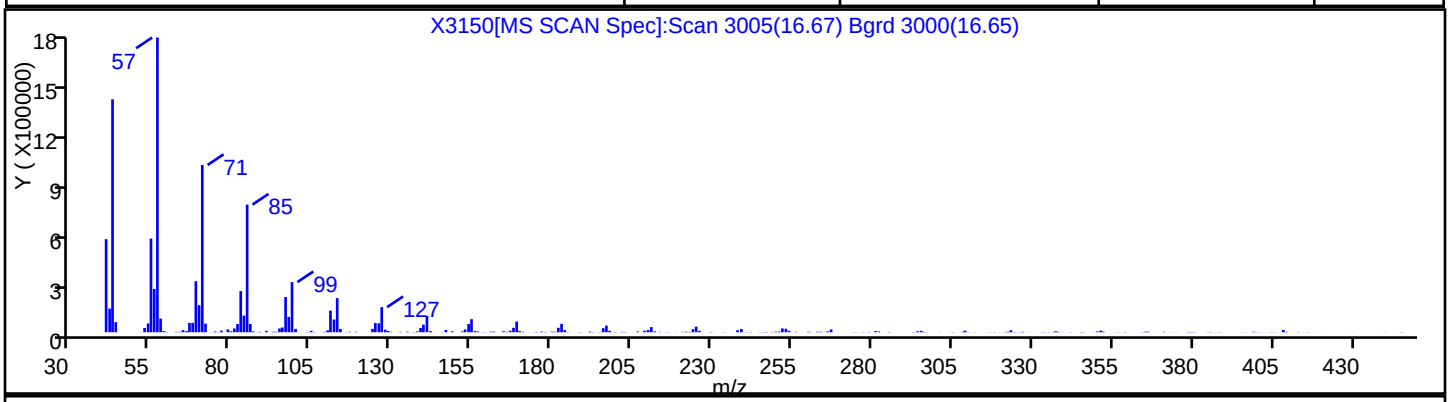


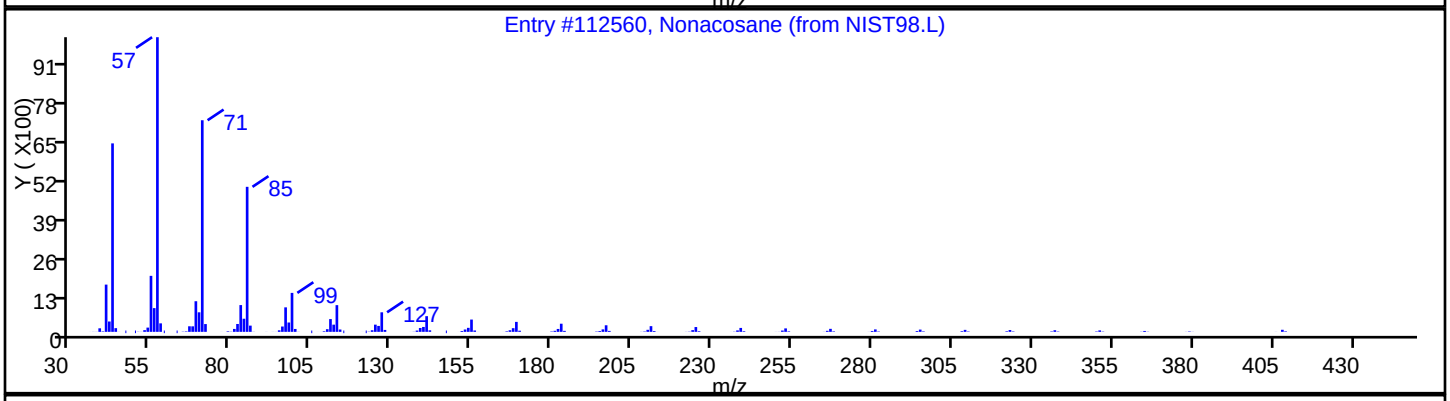
Report Date: 09-Mar-2013 09:11:28 Chrom Revision: 2.0 01-Feb-2013 10:03:10

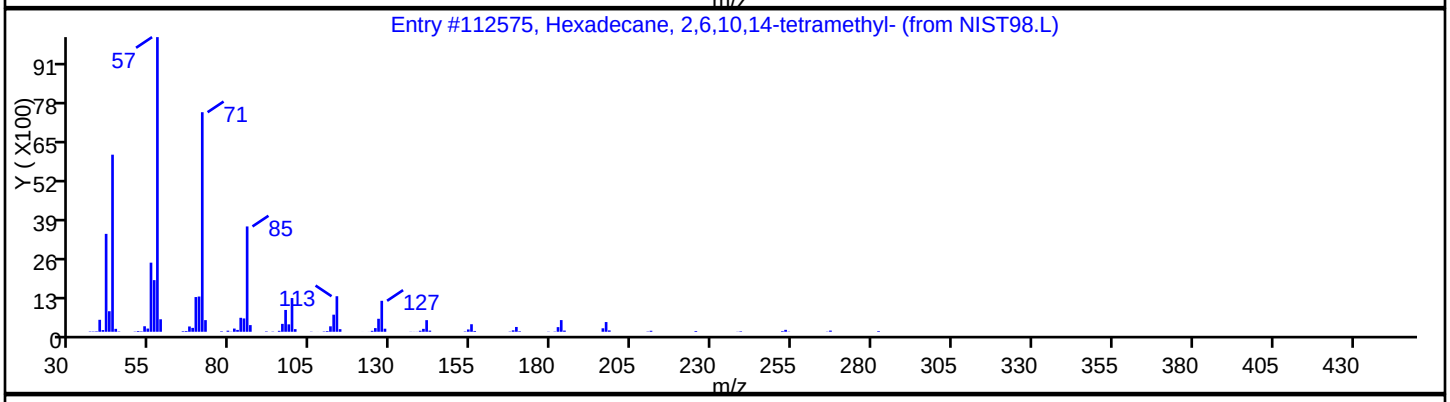
TestAmerica Buffalo

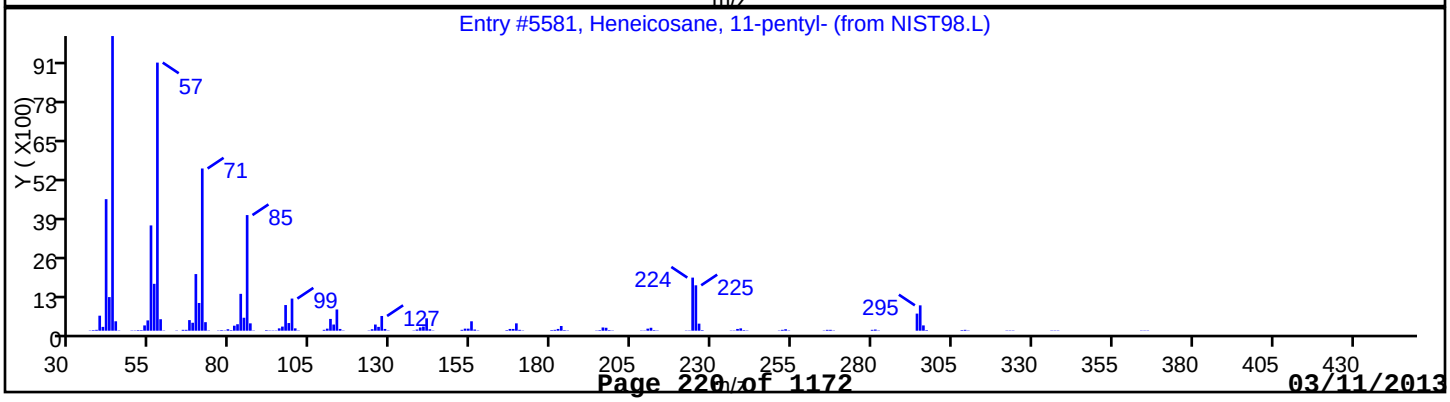
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3150.D		
Injection Date:	18-Dec-2012 20:16:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-529-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	21
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Nonacosane	630-3-5	NIST98.L	112560	99
Hexadecane, 2,6,10,14-tetramethyl-	638-36-8	NIST98.L	112575	96
Heneicosane, 11-pentyl-	14739-72-1	NIST98.L	5581	94







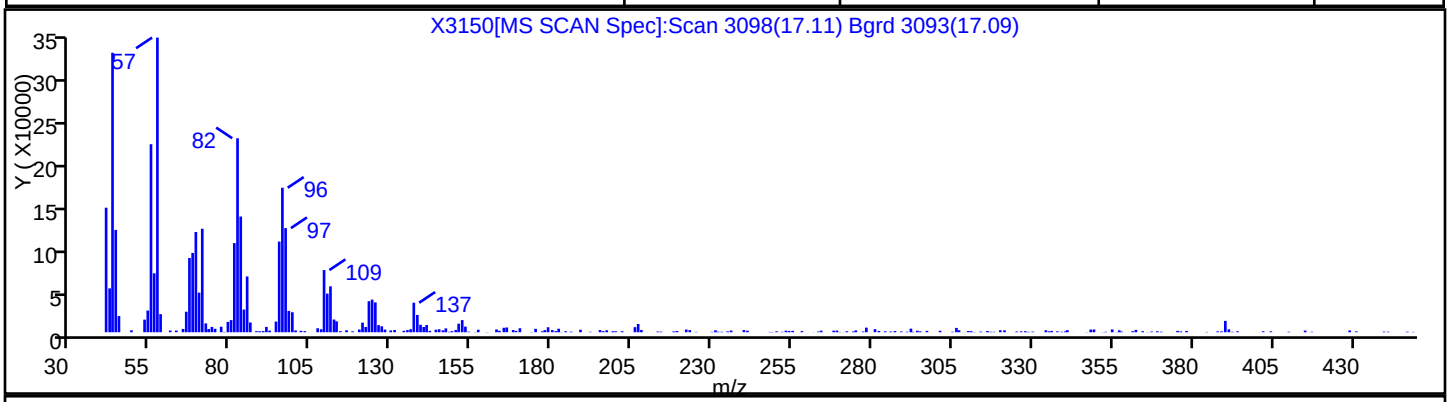


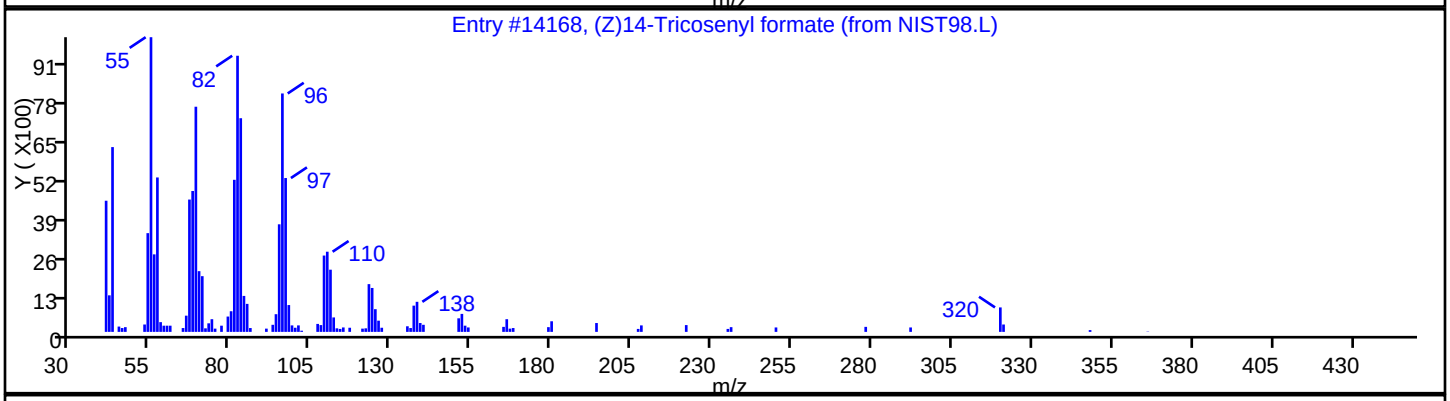
Report Date: 09-Mar-2013 09:11:28 Chrom Revision: 2.0 01-Feb-2013 10:03:10

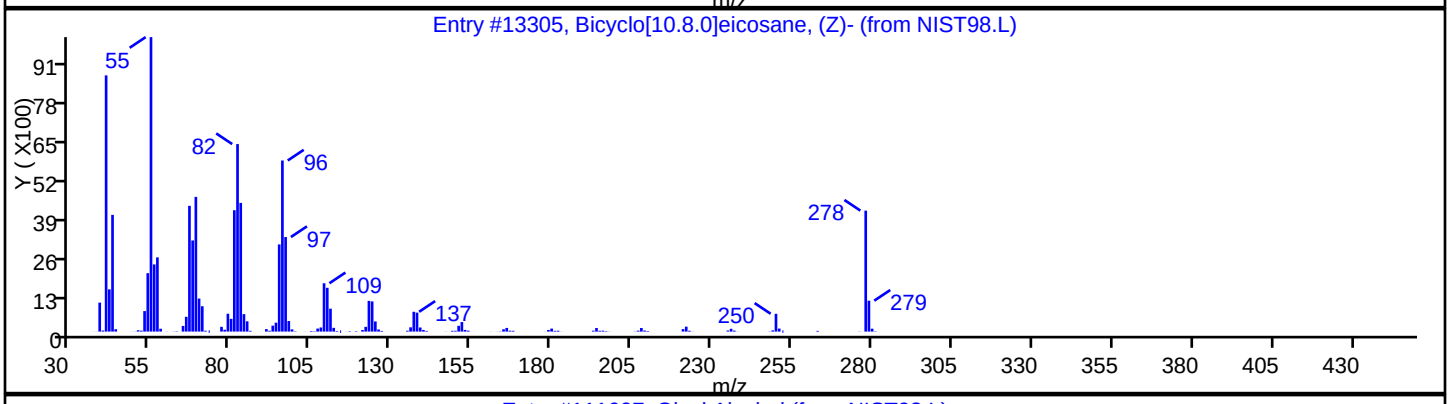
TestAmerica Buffalo

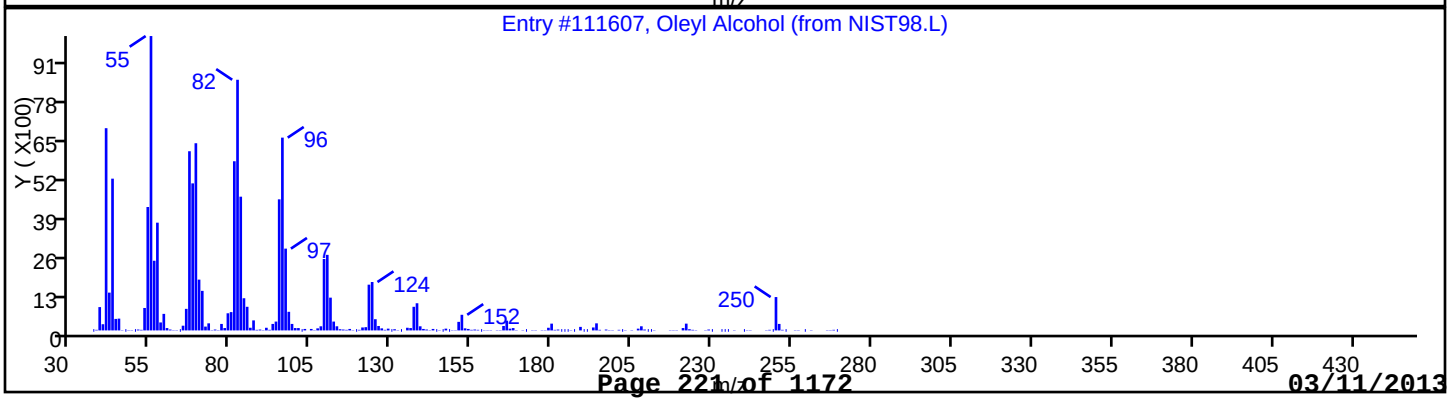
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3150.D		
Injection Date:	18-Dec-2012 20:16:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-529-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	21
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
(Z)14-Tricosenyl formate	77899-10-6	NIST98.L	14168	93
Bicyclo[10.8.0]eicosane, (Z)-	1000155-82-2	NIST98.L	13305	91
Oleyl Alcohol	143-28-2	NIST98.L	111607	90







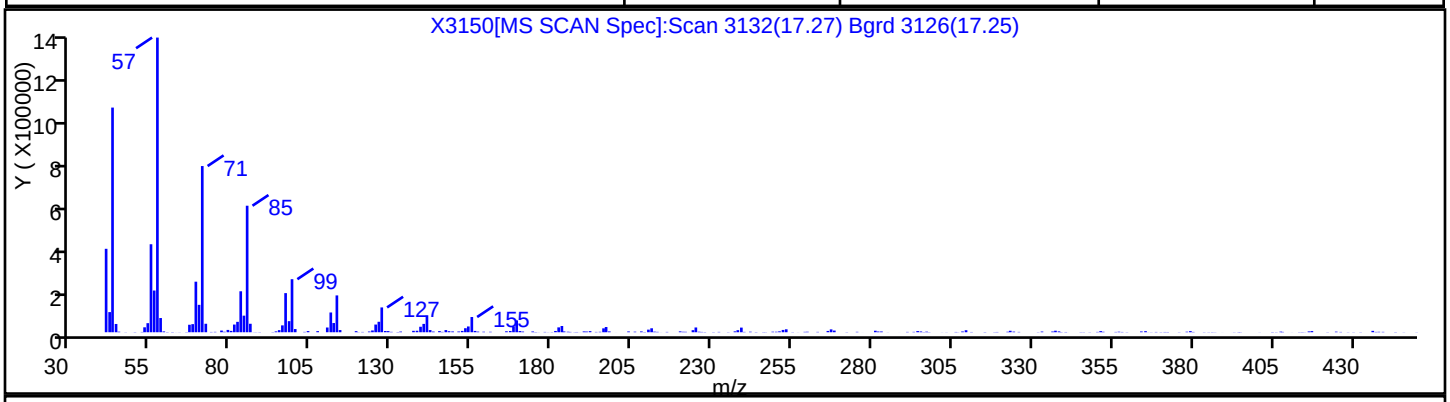


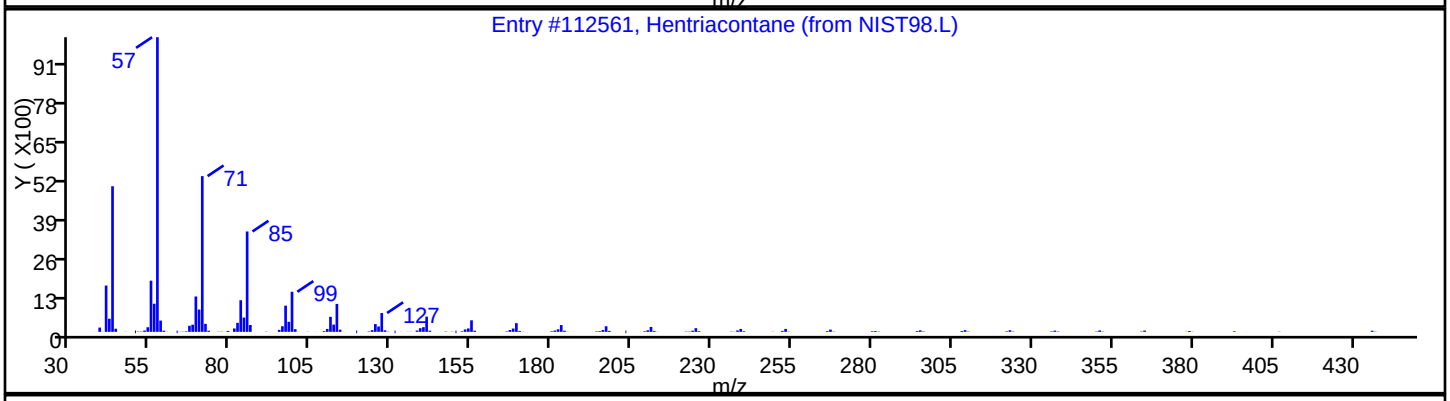
Report Date: 09-Mar-2013 09:11:28 Chrom Revision: 2.0 01-Feb-2013 10:03:10

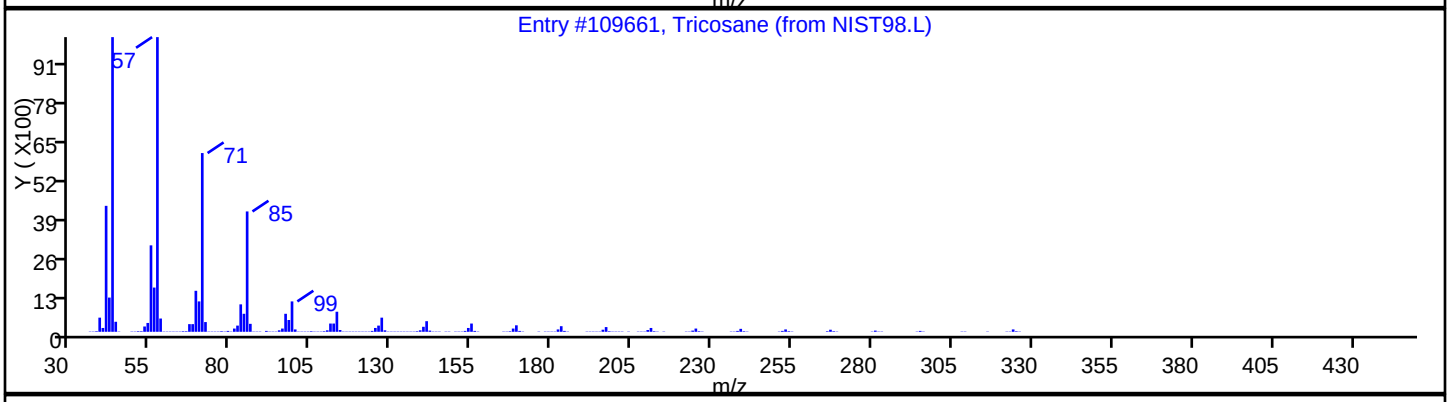
TestAmerica Buffalo

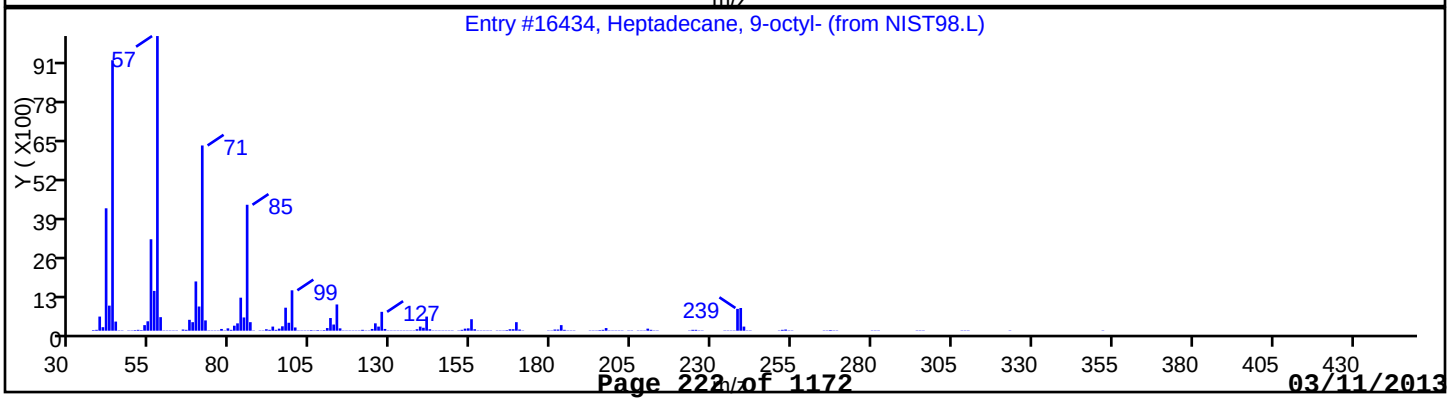
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3150.D		
Injection Date:	18-Dec-2012 20:16:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-529-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	21
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Hentriacontane	630-4-6	NIST98.L	112561	98
Tricosane	638-67-5	NIST98.L	109661	96
Heptadecane, 9-octyl-	7225-64-1	NIST98.L	16434	93







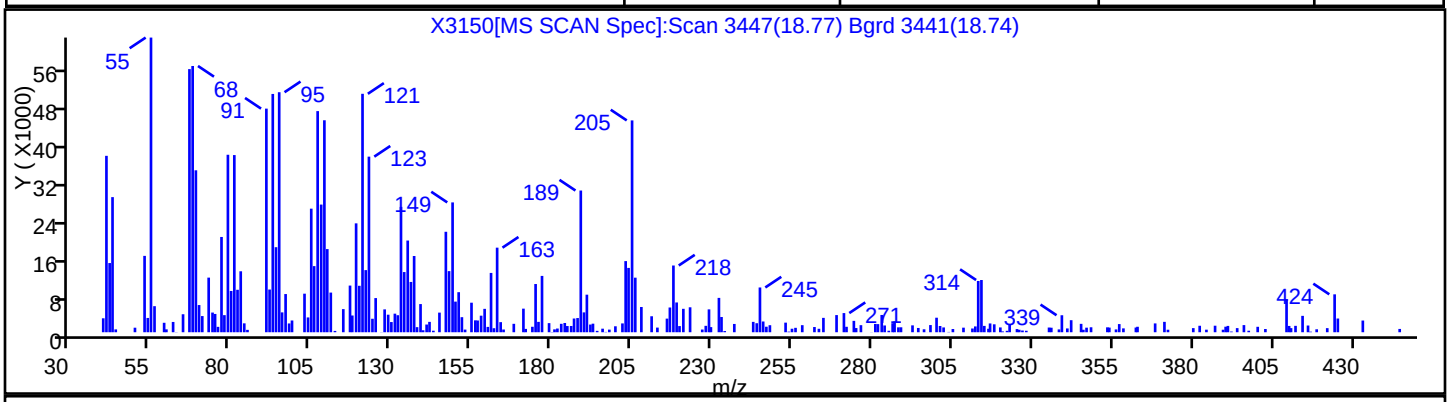


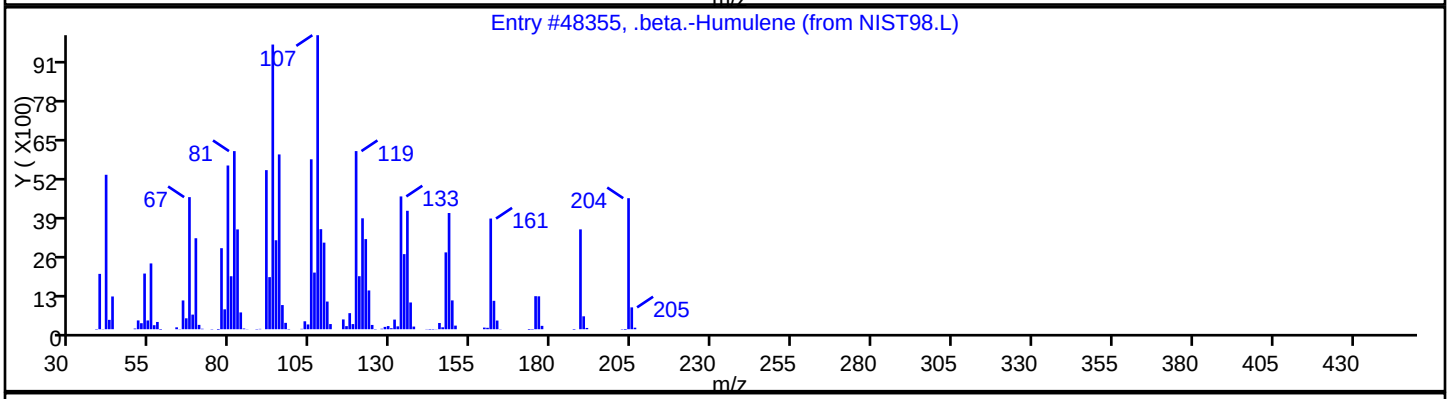
Report Date: 09-Mar-2013 09:11:28 Chrom Revision: 2.0 01-Feb-2013 10:03:10

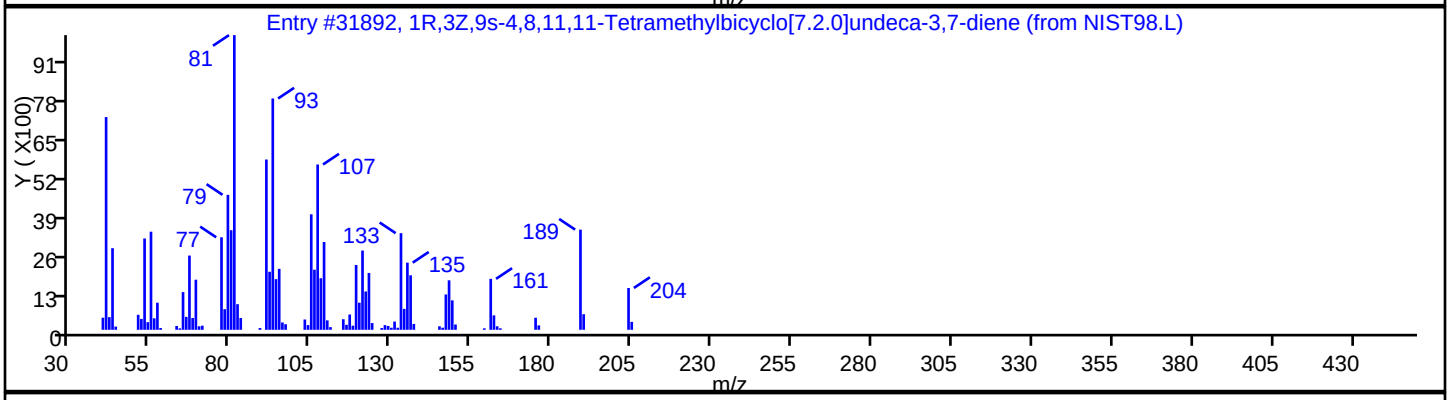
TestAmerica Buffalo

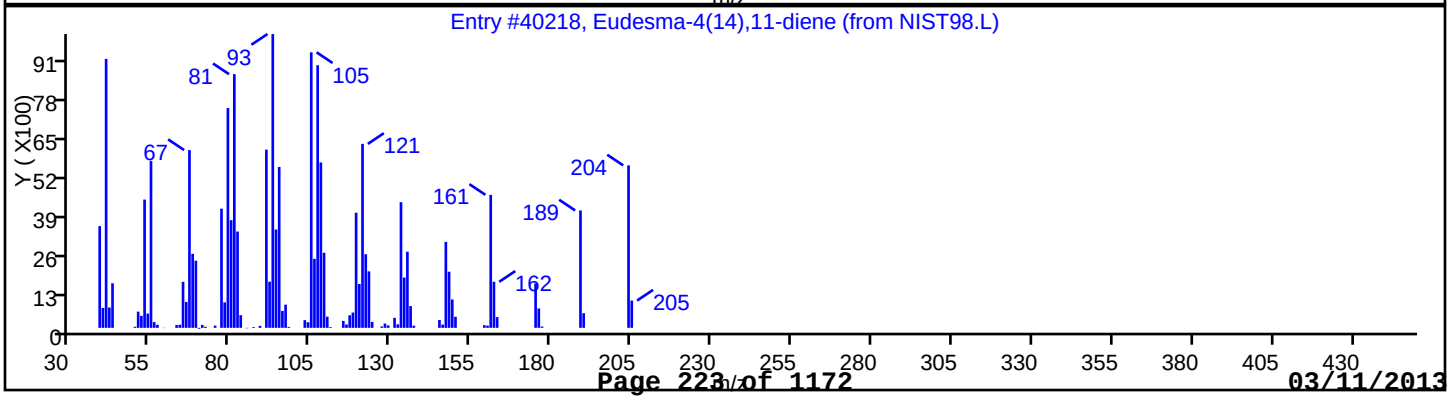
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3150.D		
Injection Date:	18-Dec-2012 20:16:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-529-0.0/1.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	21
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
.beta.-Humulene	1000158-8-0	NIST98.L	48355	64
1R,3Z,9s-4,8,11,11-Tetramethylbicyclo[7.	1000140-7-4	NIST98.L	31892	62
Eudesma-4(14),11-diene	1000152-4-3	NIST98.L	40218	59









FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-29598-1

SDG No.:

Client Sample ID: OC-SB-529-1.0/3.0-XXX | Lab Sample ID: 480-29598-10

Matrix: Solid | Lab File ID: X3151.D

Analysis Method: 8270D | Date Collected: 12/05/2012 12:35

Extract. Method: 3546 | Date Extracted: 12/11/2012 08:51

Sample wt/vol: 000030.1(g) | Date Analyzed: 12/18/2012 20:42

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

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

% Moisture: 20.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 96347 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	ND		42	13
95-50-1	1,2-Dichlorobenzene	ND		42	13
541-73-1	1,3-Dichlorobenzene	ND		42	13
100-52-7	Benzaldehyde	ND		42	13
106-46-7	1,4-Dichlorobenzene	ND		42	13
108-60-1	2,2'-oxybis[1-chloropropane]	ND		42	13
95-95-4	2,4,5-Trichlorophenol	ND		42	14
88-06-2	2,4,6-Trichlorophenol	ND		42	18
100-51-6	Benzyl alcohol	ND		84	13
120-83-2	2,4-Dichlorophenol	ND		42	13
105-67-9	2,4-Dimethylphenol	ND		42	13
51-28-5	2,4-Dinitrophenol	ND	*	42	34
121-14-2	2,4-Dinitrotoluene	ND		42	13
100-01-6	4-Nitroaniline	ND		210	35
606-20-2	2,6-Dinitrotoluene	ND		42	35
91-58-7	2-Chloronaphthalene	ND	*	42	13
95-57-8	2-Chlorophenol	ND		42	13
86-30-6	N-Nitrosodiphenylamine	ND		42	13
91-57-6	2-Methylnaphthalene	ND		42	13
95-48-7	2-Methylphenol	ND		42	13
88-75-5	2-Nitrophenol	ND		42	16
15831-10-4	3 & 4 Methylphenol	ND		42	13
91-94-1	3,3'-Dichlorobenzidine	ND		84	15
88-74-4	2-Nitroaniline	ND		210	53
101-55-3	4-Bromophenyl phenyl ether	ND		42	13
77-47-4	Hexachlorocyclopentadiene	ND		84	13
106-47-8	4-Chloroaniline	ND		84	38
100-02-7	4-Nitrophenol	ND	*	210	18
83-32-9	Acenaphthene	ND		42	13
534-52-1	4,6-Dinitro-2-methylphenol	ND		210	40
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		42	13
208-96-8	Acenaphthylene	ND		42	13
98-86-2	Acetophenone	ND		42	13
62-53-3	Aniline	ND		42	13

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-29598-1

SDG No.:

Client Sample ID: OC-SB-529-1.0/3.0-XXX | Lab Sample ID: 480-29598-10

Matrix: Solid | Lab File ID: X3151.D

Analysis Method: 8270D | Date Collected: 12/05/2012 12:35

Extract. Method: 3546 | Date Extracted: 12/11/2012 08:51

Sample wt/vol: 000030.1(g) | Date Analyzed: 12/18/2012 20:42

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

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

% Moisture: 20.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 96347 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-12-7	Anthracene	ND		42	13
1912-24-9	Atrazine	ND		42	13
103-33-3	Azobenzene	ND		42	13
56-55-3	Benzo[a]anthracene	ND		42	13
50-32-8	Benzo[a]pyrene	ND		42	13
205-99-2	Benzo[b]fluoranthene	ND		42	13
191-24-2	Benzo[g,h,i]perylene	ND		42	13
105-60-2	Caprolactam	ND		42	13
99-09-2	3-Nitroaniline	ND		210	13
207-08-9	Benzo[k]fluoranthene	ND		42	21
111-91-1	Bis(2-chloroethoxy)methane	ND		42	13
92-52-4	1,1'-Biphenyl	ND		42	13
111-44-4	Bis(2-chloroethyl)ether	ND		42	13
117-81-7	Bis(2-ethylhexyl) phthalate	ND		210	84
85-68-7	Butyl benzyl phthalate	ND		42	13
218-01-9	Chrysene	ND		42	13
621-64-7	N-Nitrosodi-n-propylamine	ND		42	13
65-85-0	Benzoic acid	ND		210	19
53-70-3	Dibenz(a,h)anthracene	ND		42	13
132-64-9	Dibenzofuran	ND		42	13
84-66-2	Diethyl phthalate	ND		42	14
131-11-3	Dimethyl phthalate	ND		42	13
84-74-2	Di-n-butyl phthalate	ND		210	63
117-84-0	Di-n-octyl phthalate	ND		42	13
101-84-8	Phenyl ether	ND		42	13
58-90-2	2,3,4,6-Tetrachlorophenol	ND		42	13
206-44-0	Fluoranthene	ND		42	13
59-50-7	4-Chloro-3-methylphenol	ND		84	13
86-73-7	Fluorene	ND		42	13
7005-72-3	4-Chlorophenyl phenyl ether	ND		42	13
118-74-1	Hexachlorobenzene	ND		42	13
87-68-3	Hexachlorobutadiene	ND		42	13
67-72-1	Hexachloroethane	ND		42	13
193-39-5	Indeno[1,2,3-cd]pyrene	ND	*	42	13

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-29598-1

SDG No.:

Client Sample ID: OC-SB-529-1.0/3.0-XXX | Lab Sample ID: 480-29598-10

Matrix: Solid | Lab File ID: X3151.D

Analysis Method: 8270D | Date Collected: 12/05/2012 12:35

Extract. Method: 3546 | Date Extracted: 12/11/2012 08:51

Sample wt/vol: 000030.1(g) | Date Analyzed: 12/18/2012 20:42

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

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

% Moisture: 20.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 96347 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
78-59-1	Isophorone	ND		42	13
91-20-3	Naphthalene	ND		42	13
98-95-3	Nitrobenzene	ND		42	13
87-86-5	Pentachlorophenol	ND		42	13
85-01-8	Phenanthrene	ND		42	13
119-61-9	Benzophenone	ND		42	13
108-95-2	Phenol	ND		42	13
129-00-0	Pyrene	ND		42	13
62-75-9	N-Nitrosodimethylamine	ND		42	13
86-74-8	Carbazole	ND		42	13
90-12-0	1-Methylnaphthalene	ND		42	13
106-44-5	4-Methylphenol	ND		42	13

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	63		30-130
367-12-4	2-Fluorophenol	53		30-130
4165-60-0	Nitrobenzene-d5	53		30-130
4165-62-2	Phenol-d5	48		30-130
321-60-8	2-Fluorobiphenyl	57		30-130
1718-51-0	p-Terphenyl-d14	71		30-130

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

Lab Name: TestAmerica Buffalo | Job No.: 480-29598-1

SDG No.:

Client Sample ID: OC-SB-529-1.0/3.0-XXX | Lab Sample ID: 480-29598-10

Matrix: Solid | Lab File ID: X3151.D

Analysis Method: 8270D | Date Collected: 12/05/2012 12:35

Extract. Method: 3546 | Date Extracted: 12/11/2012 08:51

Sample wt/vol: 000030.1(g) | Date Analyzed: 12/18/2012 20:42

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

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

% Moisture: 20.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 96347 | Units: ug/Kg

Number TICs Found: 10 | TIC Result Total: 10588

CAS NO.	COMPOUND NAME	RT	RESULT	Q
828-0-2	Dimethoxane	3.82	180	T J N
17429-4-8	2-Pentanone, 5-methoxy-	4.20	9600	T J N
42779-8-8	Octane, 1-(ethenylthio)-	4.22	43	T J N
40499-83-0	3-Pyrrolidinol	5.23	51	T J N
57-10-3	n-Hexadecanoic acid	13.76	98	T J N
37643-19-9	Cyclopropylidene-3,3-dimethylcyclohex-5-	15.29	390	T J N
6765-39-5	1-Heptadecene	16.31	97	T J N
111-2-4	2,6,10,14,18,22-Tetracosahexaene, 2,6,10	16.46	46	T J N
3386-33-2	Octadecane, 1-chloro-	16.67	36	T J N
1000151-99-7	Cycloisolongifolene	18.47	47	T J N

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3151.D		
Lims ID:	480-29598-B-10-A	Client ID:	OC-SB-529-1.0/3.0-XXX
Inject. Date:	18-Dec-2012 20:42:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	480-0017654-024		
Misc. Info.:			
Operator:	ANM	Instrument ID:	HP5973X
Injection Vol:	1.0 ul	ALS Bottle#:	23
Lims Batch ID:	96347	Lims Sample ID:	24
Detector:	MS SCAN		

Method:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X-8270LL.m		
Last Update:	09-Mar-2013 09:11:13	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:	XAWRK034		

First Level Reviewer: mckernar Date: 19-Dec-2012 09:28:56

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.546	6.537	0.009	89	214742	5.00	
* 2 Naphthalene-d8	136	8.463	8.425	0.038	97	770129	5.00	
* 3 Acenaphthene-d10	164	11.097	11.035	0.062	88	487589	5.00	
* 4 Phenanthrene-d10	188	13.099	13.052	0.047	97	845521	5.00	
* 5 Chrysene-d12	240	15.739	15.720	0.019	94	641903	5.00	
* 6 Perylene-d12	264	17.013	17.004	0.009	98	815511	5.00	
$ 7 2-Fluorophenol	112	4.663	4.672	-0.009	1	51673	1.06	
$ 8 Phenol-d5	99	6.090	6.061	0.029	86	56887	0.9591	
$ 9 Nitrobenzene-d5	82	7.407	7.374	0.033	68	61091	1.06	
$ 10 2-Fluorobiphenyl	172	10.118	10.056	0.062	90	139754	1.14	
$ 11 2,4,6-Tribromophenol	330	12.262	12.196	0.066	21	19487	1.25	
$ 12 p-Terphenyl-d14	244	14.769	14.740	0.029	94	175653	1.42	
19 N-Nitrosodimethylamine	42		2.918					14
21 Benzaldehyde	77		5.909					
23 Aniline	93		6.071					
22 Phenol	94		6.080					9
24 Bis(2-chloroethyl)ether	93		6.170					
25 2-Chlorophenol	128		6.237					
26 1,3-Dichlorobenzene	146		6.451					9
27 1,4-Dichlorobenzene	146		6.565					9
28 Benzyl alcohol	108		6.774					149
29 1,2-Dichlorobenzene	146		6.784					
31 2-Methylphenol	108		6.965					9
32 2,2'-oxybis[1-chloropropane]	45		6.979					
33 Acetophenone	105		7.155					
34 N-Nitrosodi-n-propylamine	70		7.164					
35 DFTPP								
36 4-Methylphenol	108		7.212					9
37 Hexachloroethane	117		7.274					19
38 Nitrobenzene	77		7.402					9

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
40 Isophorone	82		7.764					
41 2-Nitrophenol	139		7.873					
43 2,4-Dimethylphenol	107		7.987					
45 Bis(2-chloroethoxy)methane	93		8.111					19
44 Benzoic acid	105		8.168					
47 2,4-Dichlorophenol	162		8.268					9
48 1,2,4-Trichlorobenzene	180		8.348					
49 Naphthalene	128		8.458					9
51 4-Chloroaniline	127		8.586					1
52 Hexachlorobutadiene	225		8.653					
54 Caprolactam	113		9.114					
55 4-Chloro-3-methylphenol	107		9.371					1
56 2-Methylnaphthalene	142		9.495					
57 1-Methylnaphthalene	142		9.637					
58 Hexachlorocyclopentadiene	237		9.728					
59 1,2,4,5-Tetrachlorobenzene	216		9.747					
60 2,4,6-Trichlorophenol	196		9.951					
61 2,4,5-Trichlorophenol	196		10.037					
62 1,1'-Biphenyl	154		10.198					1
63 2-Chloronaphthalene	162		10.241					
64 Phenyl ether	170		10.360					
65 2-Nitroaniline	65		10.417					
67 Dimethyl phthalate	163		10.693					9
68 2,6-Dinitrotoluene	165		10.783					
69 Acenaphthylene	152		10.821					
70 3-Nitroaniline	138		11.045					
71 Acenaphthene	153		11.083					
72 2,4-Dinitrophenol	184		11.211					
73 Dibenzofuran	168		11.349					
74 2,4-Dinitrotoluene	165		11.387					
75 4-Nitrophenol	109		11.421					
76 2,3,4,6-Tetrachlorophenol	232		11.563					
78 Diethyl phthalate	149		11.744					
79 Fluorene	166		11.853					
80 4-Chlorophenyl phenyl ether	204		11.868					149
81 4-Nitroaniline	138		11.953					
82 4,6-Dinitro-2-methylphenol	198		11.982					
83 N-Nitrosodiphenylamine	169		12.048					
16 1,2-Diphenylhydrazine	77		12.086					
85 Azobenzene	77		12.086					
86 Benzophenone	105		12.110					
89 4-Bromophenyl phenyl ether	248		12.519					
91 Hexachlorobenzene	284		12.581					9
93 Atrazine	200		12.771					9
94 Pentachlorophenol	266		12.852					9
97 Phenanthrene	178		13.080					9
98 Anthracene	178		13.142					
99 Carbazole	167		13.351					
102 Di-n-butyl phthalate	149		13.741					9
104 Fluoranthene	202		14.364					
106 Pyrene	202		14.588					
108 Butyl benzyl phthalate	149		15.196					

Report Date: 09-Mar-2013 09:11:29 Chrom Revision: 2.0 01-Feb-2013 10:03:10
Data File: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3151.D

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
109 3,3'-Dichlorobenzidine	252		15.691					
110 Bis(2-ethylhexyl) phthalate	149	15.710	15.696	0.014	50	18790	0.1435	
111 Benzo[a]anthracene	228		15.705					9
112 Chrysene	228		15.743					9
113 Di-n-octyl phthalate	149		16.238					
114 Benzo[b]fluoranthene	252		16.647					
115 Benzo[k]fluoranthene	252		16.666					
116 Benzo[a]pyrene	252		16.951					9
117 Indeno[1,2,3-cd]pyrene	276		18.093					
118 Dibenz(a,h)anthracene	278		18.093					
119 Benzo[g,h,i]perylene	276		18.411					
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\20121218-17654.b\X3151.D		
Lims ID:	480-29598-B-10-A	Client ID:	OC-SB-529-1.0/3.0-XXX
Inject. Date:	18-Dec-2012 20:42:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	480-0017654-024		
Misc. Info.:			
Operator:	ANM	Instrument ID:	HP5973X
Injection Vol:	1.0 ul	ALS Bottle#:	23
Lims Batch ID:	96347	Lims Sample ID:	24
Detector:	MS SCAN		
Method:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X-8270LL.m		
Last Update:	09-Mar-2013 09:11:13	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:	10		
Process Host:	XAWRK034		

First Level Reviewer: mckernar Date: 19-Dec-2012 09:28:56

Tentative Identified Compound Results

RT	Response	Amount ng/uL	Quant Cpnd	Qual	Lib Entry	Flags
828-0-2 Dimethoxane						
3.817	1269458	4.34	1	59	109425	
17429-4-8 2-Pentanone, 5-methoxy-						
4.202	67165026	229.4	1	42	5841	
42779-8-8 Octane, 1-(ethenylthio)-						
4.221	300619	1.03	1	11	20076	
40499-83-0 3-Pyrrolidinol						
5.234	357130	1.22	1	42	4163	
57-10-3 n-Hexadecanoic acid						
13.756	1108005	2.33	4	94	109985	
37643-19-9 Cyclopropylidene-3,3-dimethylcyclohex-5-						
15.292	5861673	9.19	5	62	2873	
6765-39-5 1-Heptadecene						
16.305	1480727	2.32	5	90	13024	
111-2-4 2,6,10,14,18,22-Tetracosahexaene, 2,6,10						
16.457	527661	1.11	6	80	114266	
3386-33-2 Octadecane, 1-chloro-						
16.666	405206	0.8487	6	90	112584	
1000151-99-7 Cycloisolongifolene						
18.468	535028	1.12	6	53	38881	

Quantitation Compounds

Compound	RT	Response	Amount ng/uL

Report Date: 09-Mar-2013 09:11:29 Chrom Revision: 2.0 01-Feb-2013 10:03:10
Data File: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3151.D

Compound	RT	Response	Amount ng/uL
* 1 1,4-Dichlorobenzene-d4	6.546	1463659	5.00
* 4 Phenanthrene-d10	13.099	2375441	5.00
* 5 Chrysene-d12	15.739	3189893	5.00
* 6 Perylene-d12	17.013	2387226	5.00

QC Flag Legend

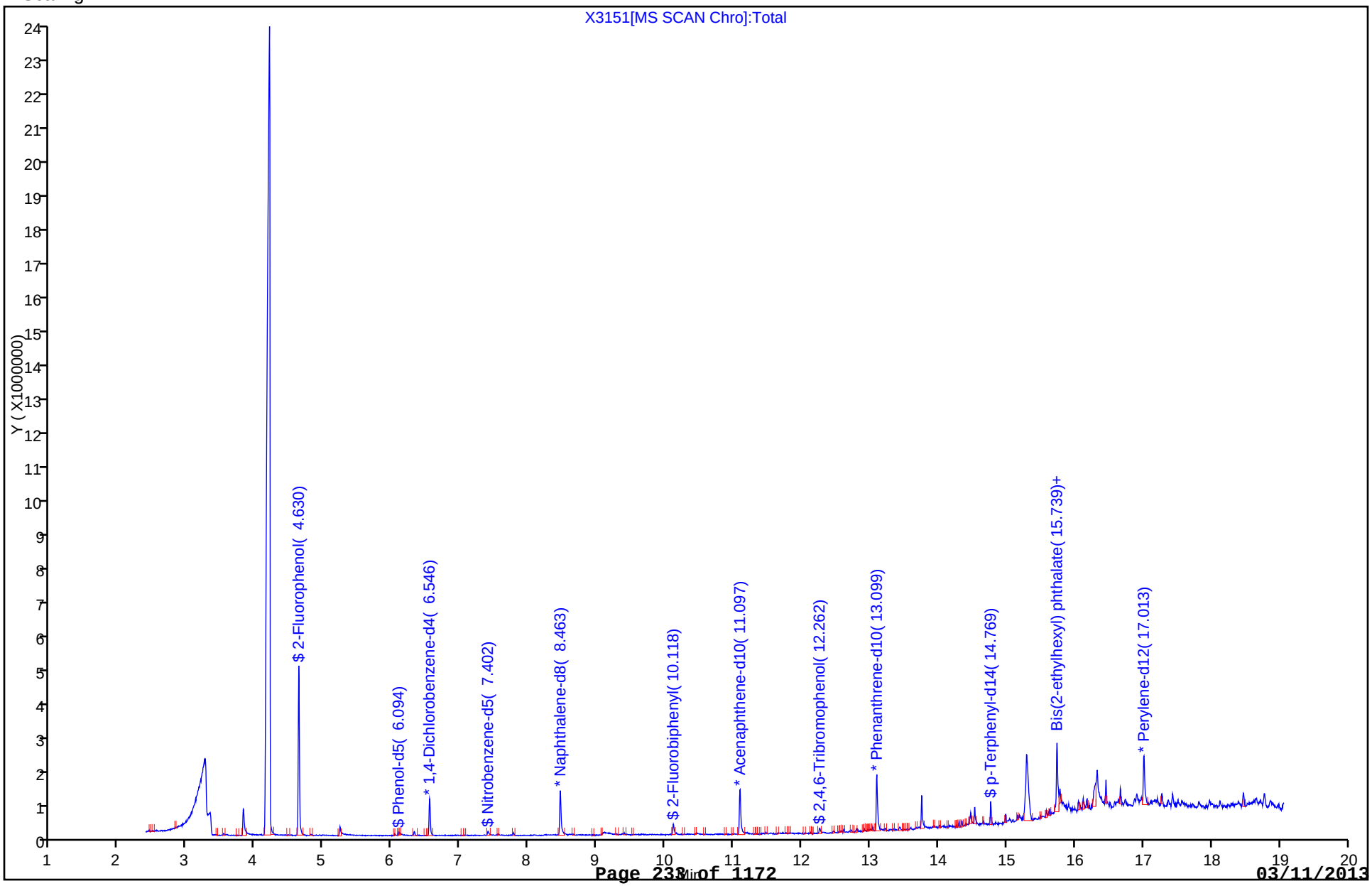
Processing Flags

Report Date: 09-Mar-2013 09:11:29 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3151.D		
Injection Date:	18-Dec-2012 20:42:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-529-1.0/3.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	24
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Y Scaling:

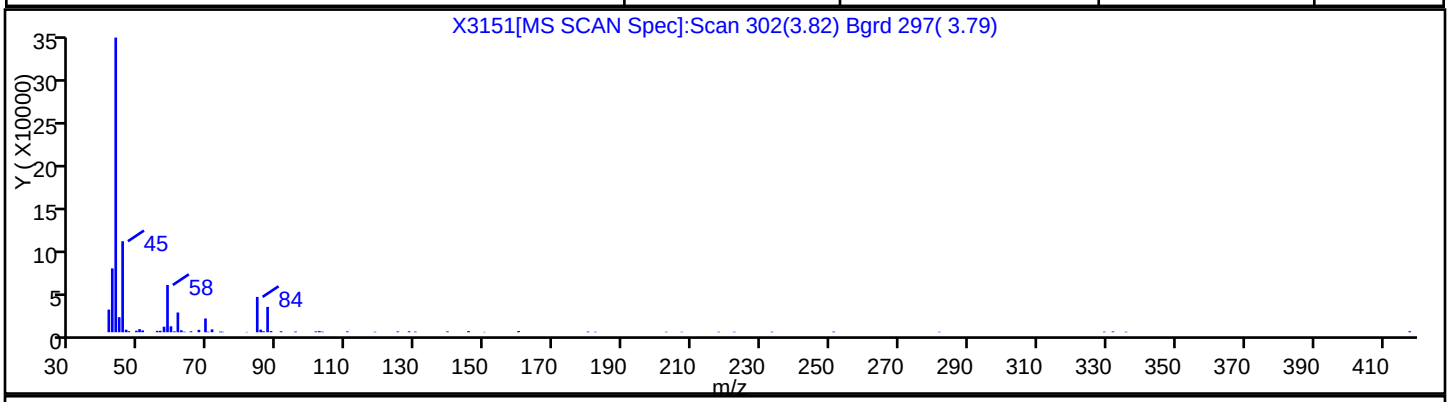


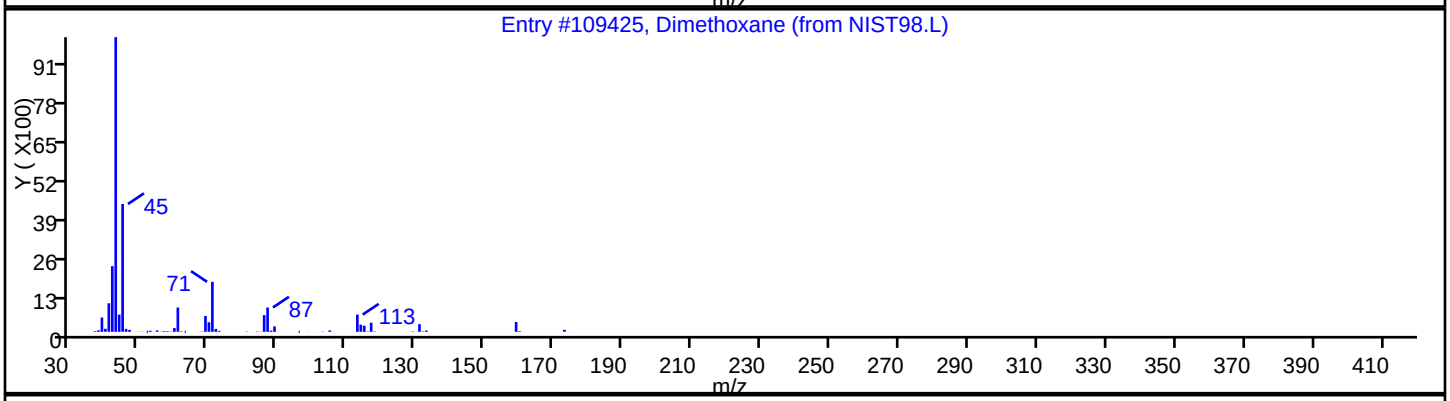
Report Date: 09-Mar-2013 09:11:29 Chrom Revision: 2.0 01-Feb-2013 10:03:10

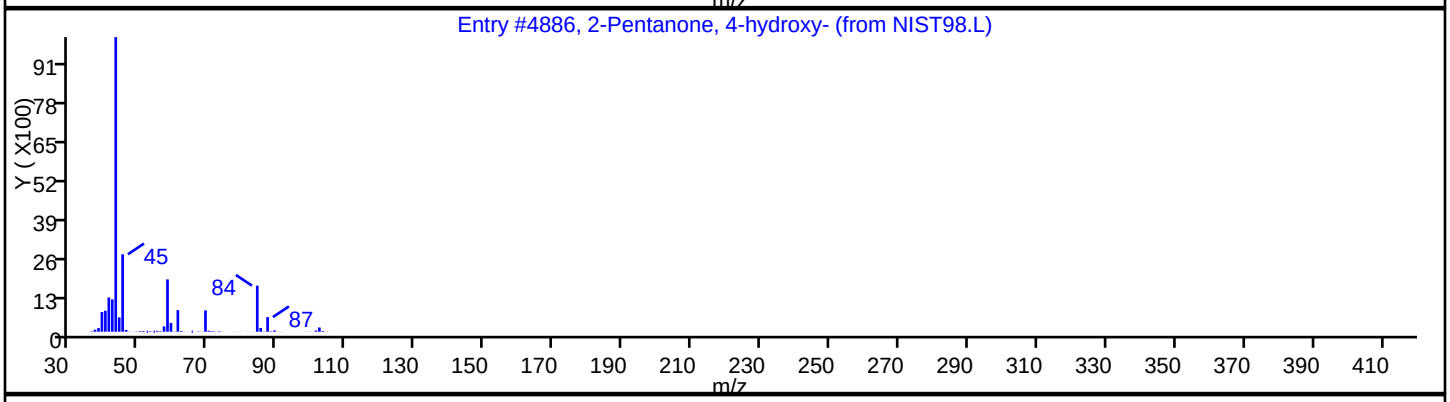
TestAmerica Buffalo

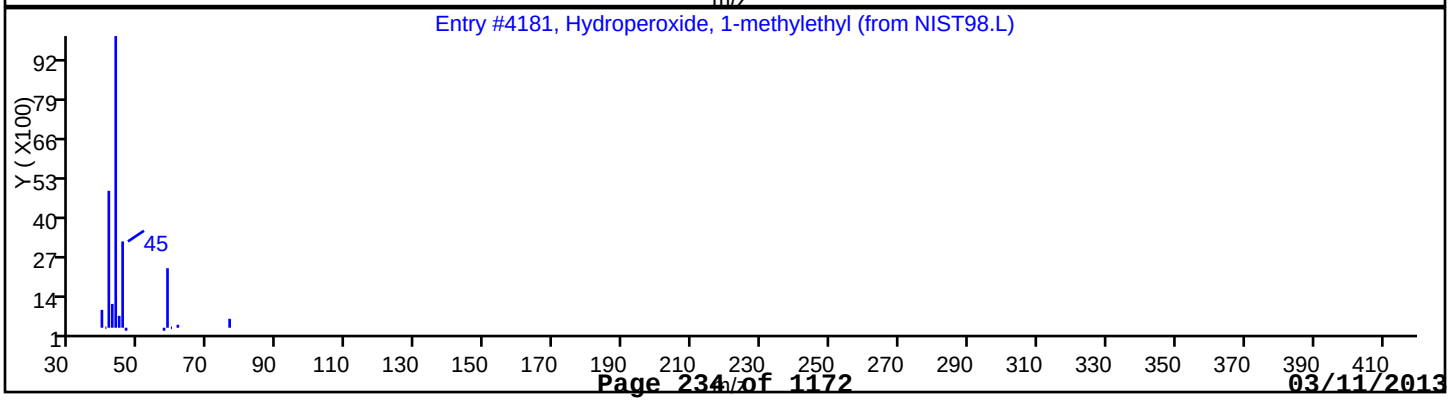
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3151.D		
Injection Date:	18-Dec-2012 20:42:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-529-1.0/3.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	24
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Dimethoxane	828-0-2	NIST98.L	109425	59
2-Pentanone, 4-hydroxy-	4161-60-8	NIST98.L	4886	43
Hydroperoxide, 1-methylethyl	3031-75-2	NIST98.L	4181	25









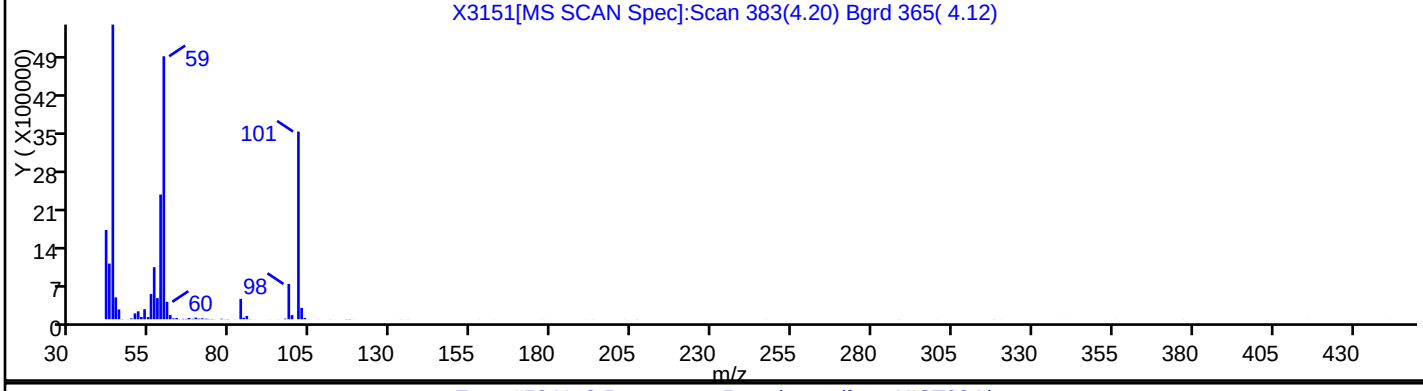
Report Date: 09-Mar-2013 09:11:29 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

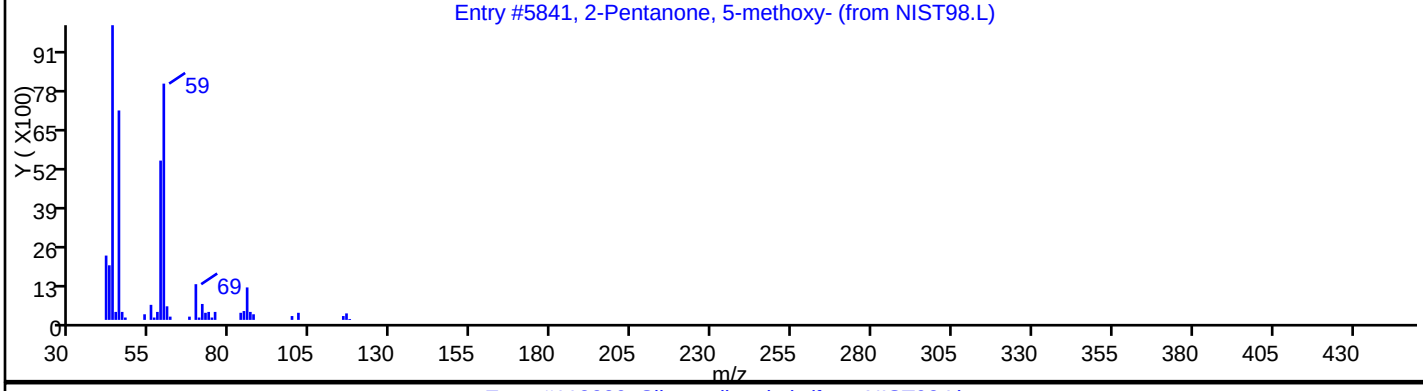
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3151.D		
Injection Date:	18-Dec-2012 20:42:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-529-1.0/3.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	24
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
2-Pentanone, 5-methoxy-	17429-4-8	NIST98.L	5841	42
Silane, dimethyl-	1111-74-6	NIST98.L	113239	38
Butane, 1-ethoxy-	628-81-9	NIST98.L	19287	38

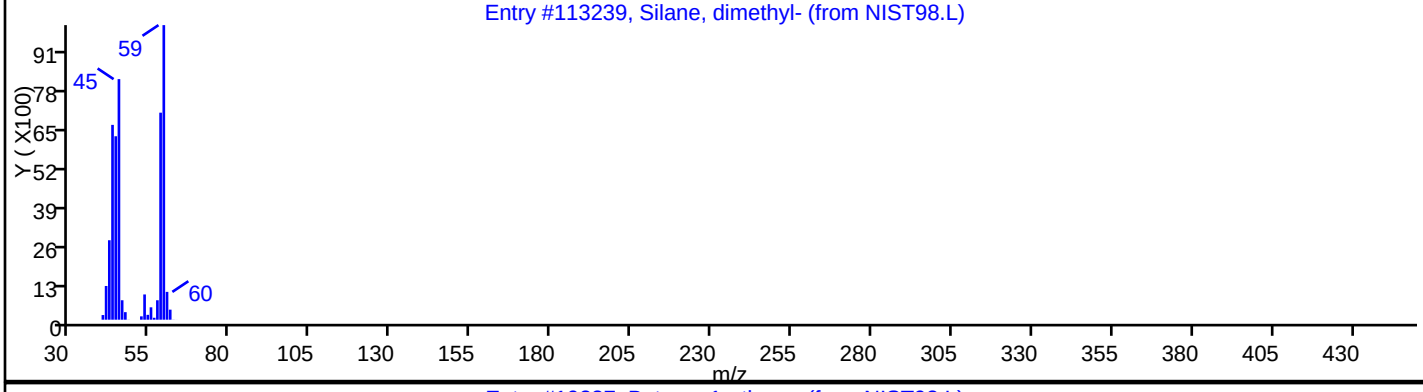
X3151[MS SCAN Spec]:Scan 383(4.20) Bgrd 365(4.12)



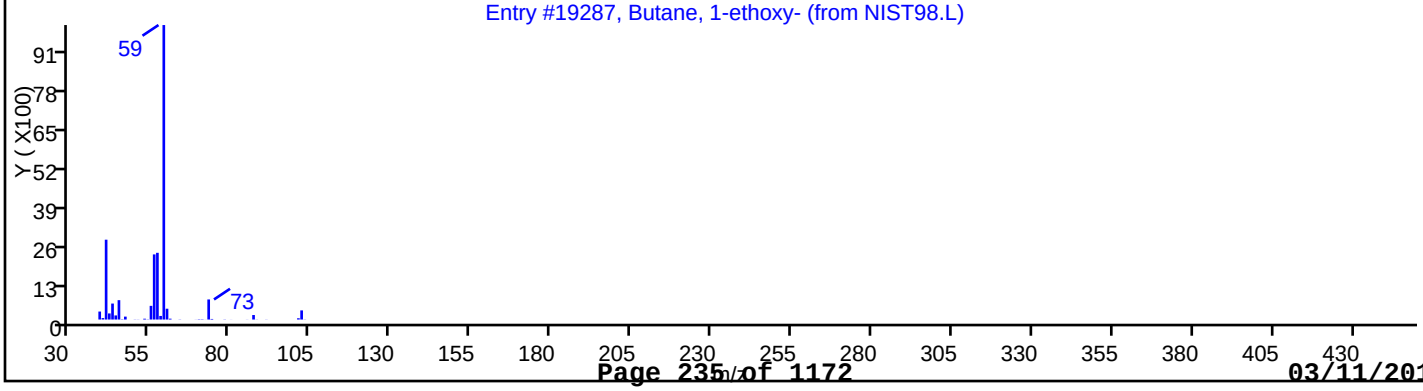
Entry #5841, 2-Pentanone, 5-methoxy- (from NIST98.L)



Entry #113239, Silane, dimethyl- (from NIST98.L)



Entry #19287, Butane, 1-ethoxy- (from NIST98.L)

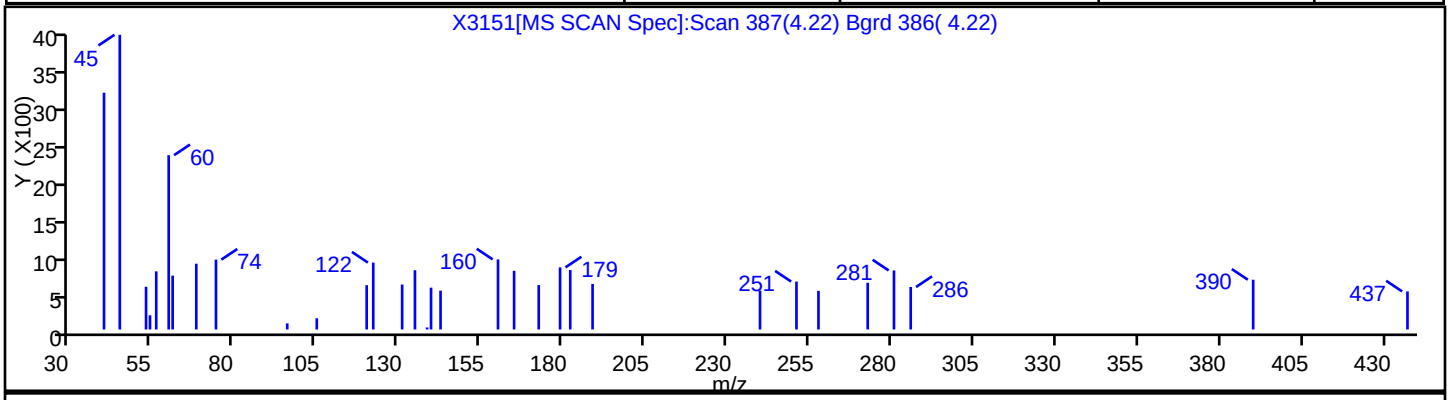


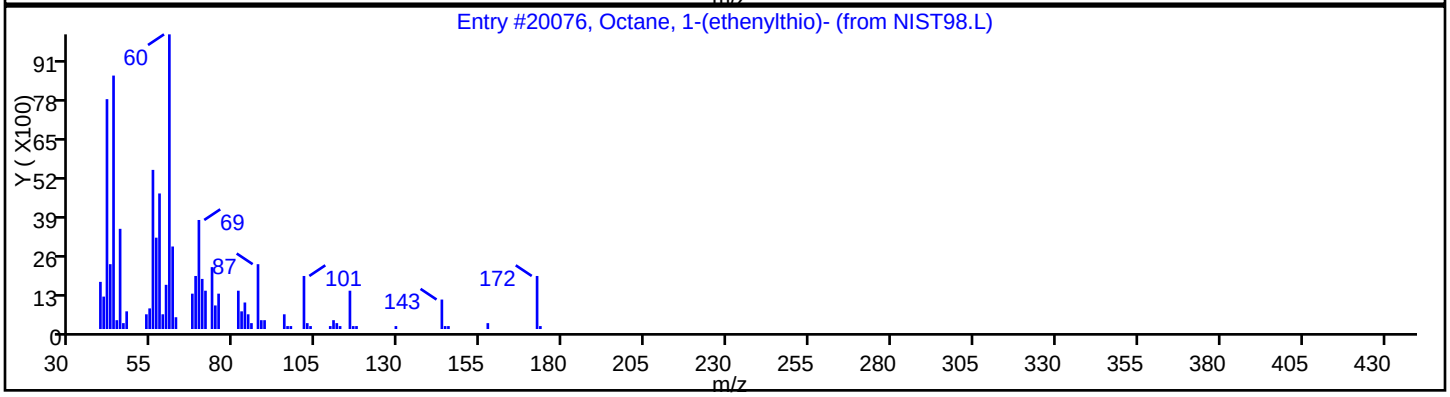
Report Date: 09-Mar-2013 09:11:29 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3151.D		
Injection Date:	18-Dec-2012 20:42:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-529-1.0/3.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	24
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
Octane, 1-(ethenylthio)-	42779-8-8	NIST98.L	20076	11



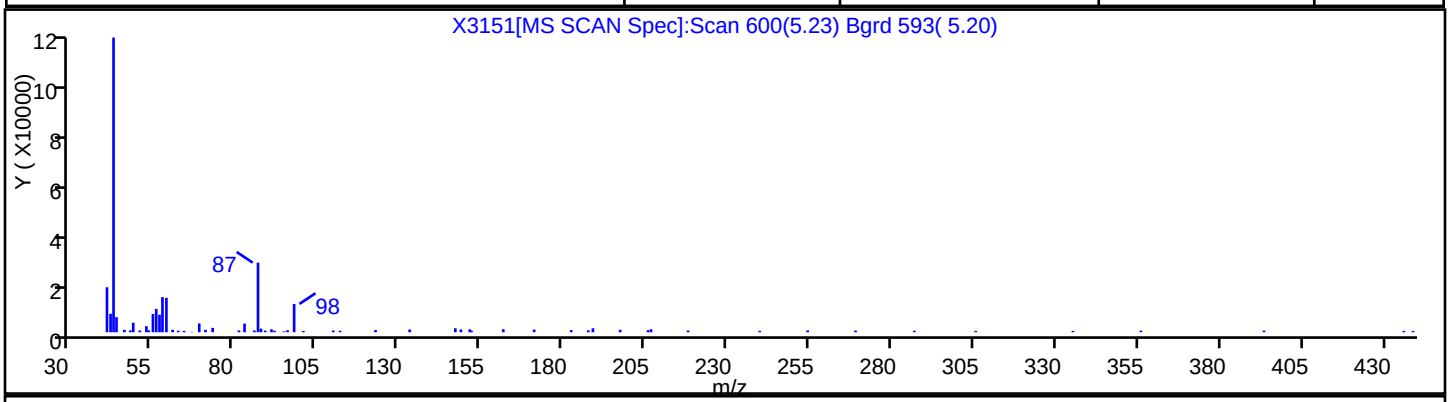


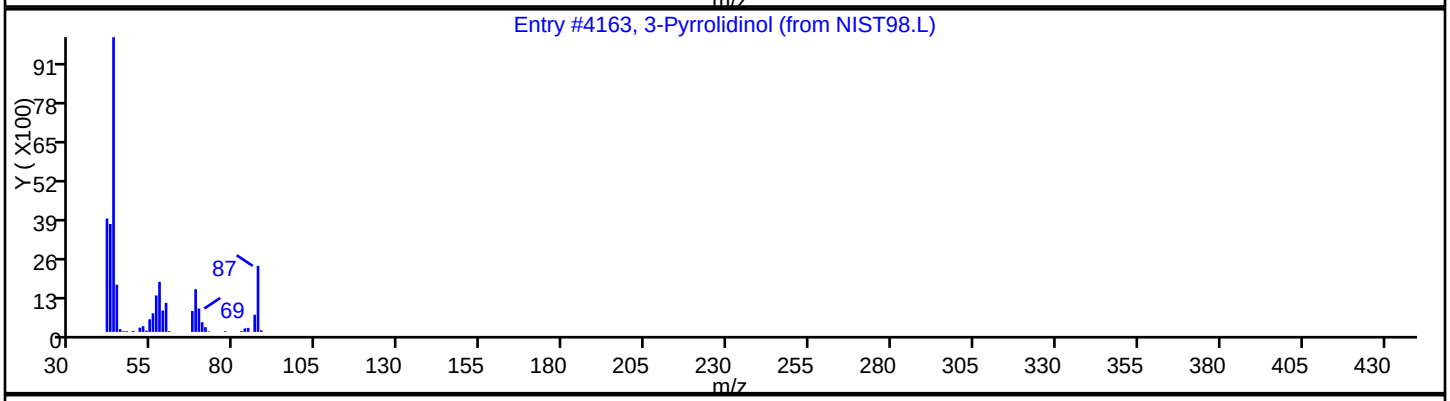
Report Date: 09-Mar-2013 09:11:29 Chrom Revision: 2.0 01-Feb-2013 10:03:10

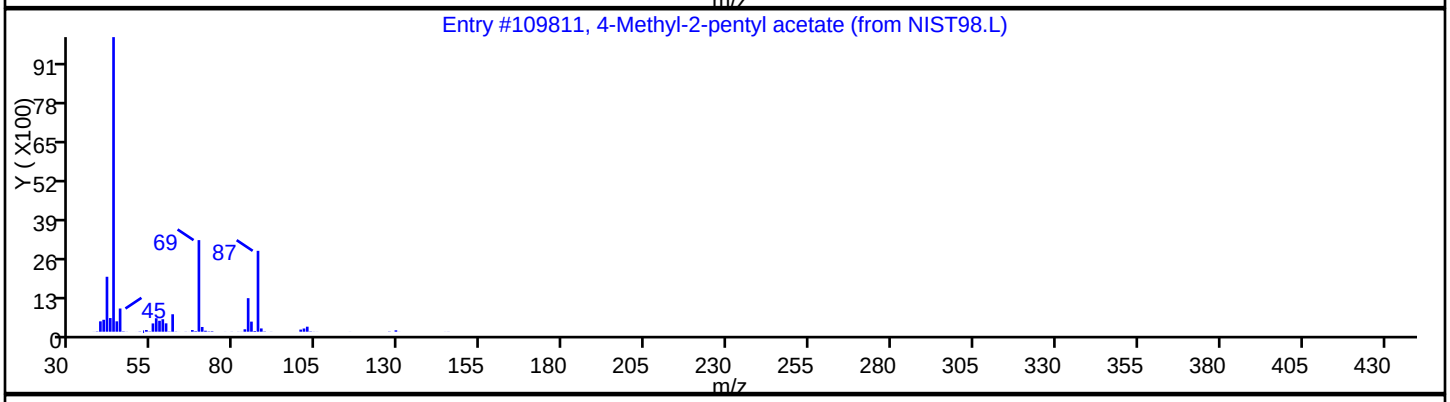
TestAmerica Buffalo

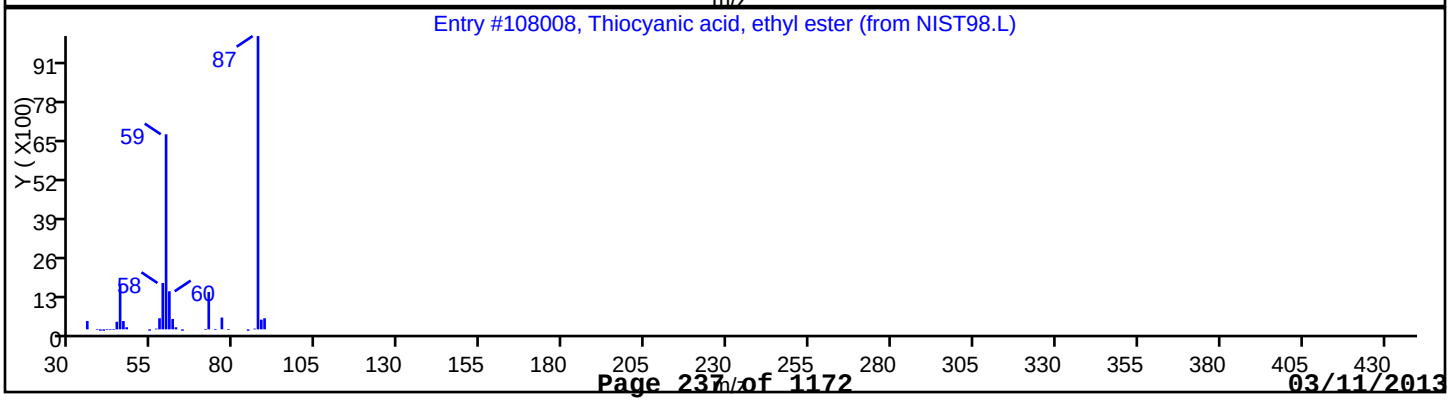
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3151.D		
Injection Date:	18-Dec-2012 20:42:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-529-1.0/3.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	24
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
3-Pyrrolidinol	40499-83-0	NIST98.L	4163	42
4-Methyl-2-pentyl acetate	108-84-9	NIST98.L	109811	25
Thiocyanic acid, ethyl ester	542-90-5	NIST98.L	108008	16







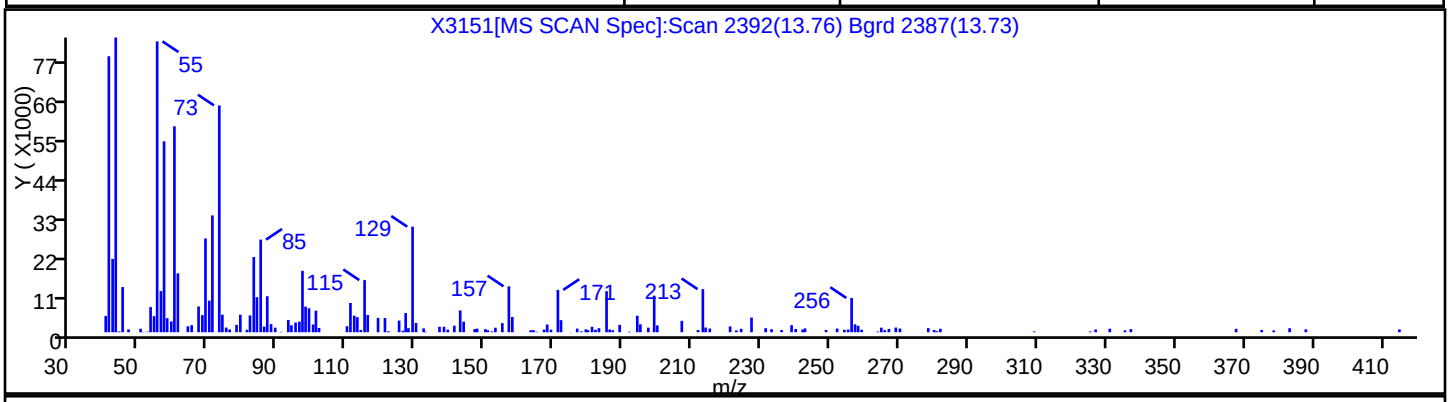


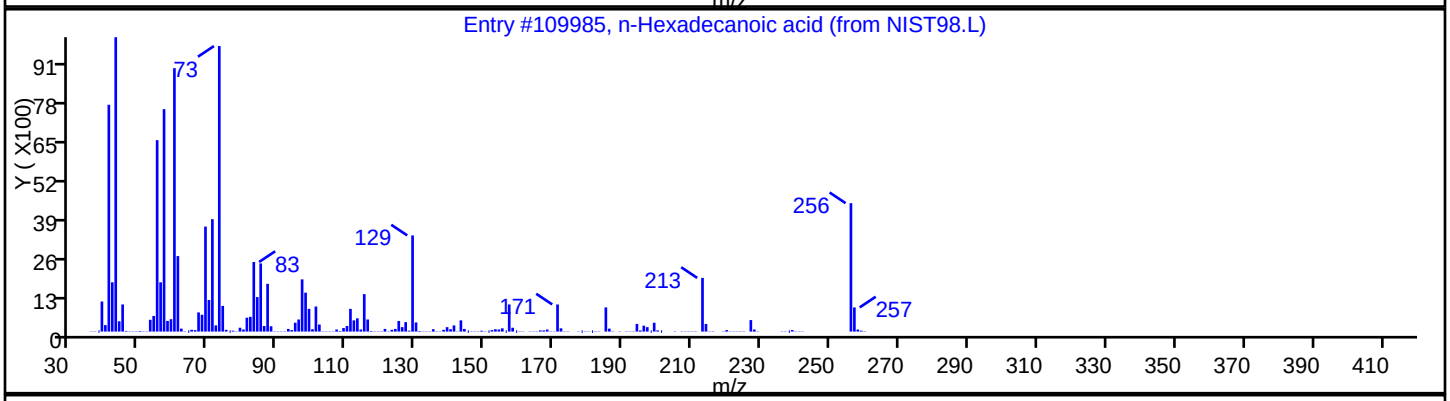
Report Date: 09-Mar-2013 09:11:29 Chrom Revision: 2.0 01-Feb-2013 10:03:10

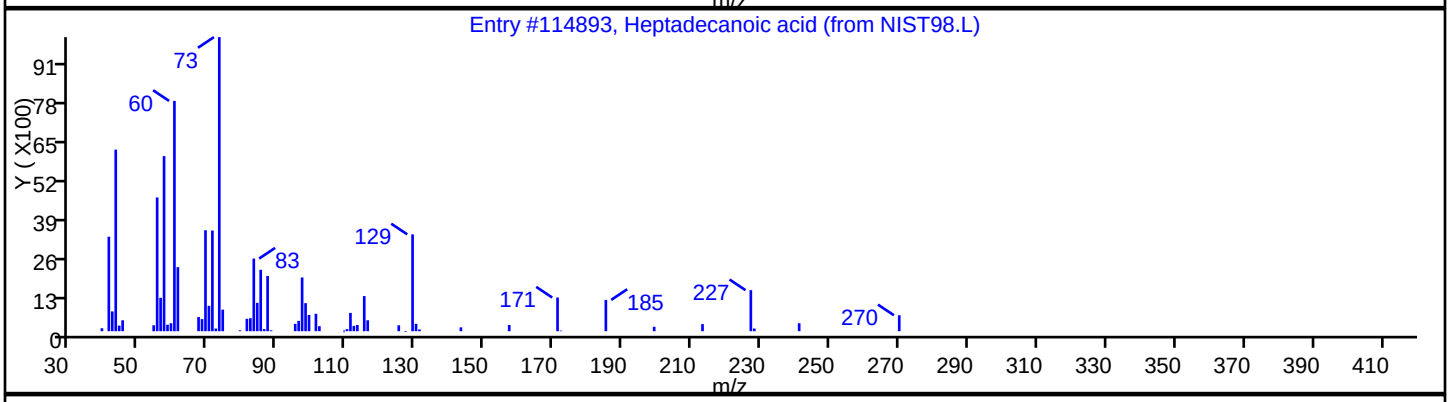
TestAmerica Buffalo

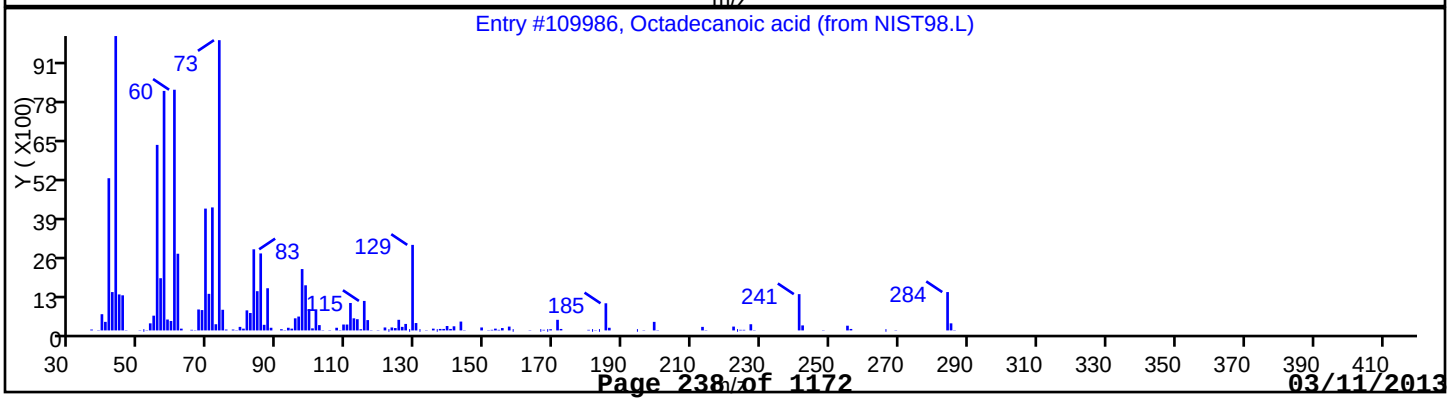
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3151.D		
Injection Date:	18-Dec-2012 20:42:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-529-1.0/3.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	24
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
n-Hexadecanoic acid	57-10-3	NIST98.L	109985	94
Heptadecanoic acid	506-12-7	NIST98.L	114893	86
Octadecanoic acid	57-11-4	NIST98.L	109986	83







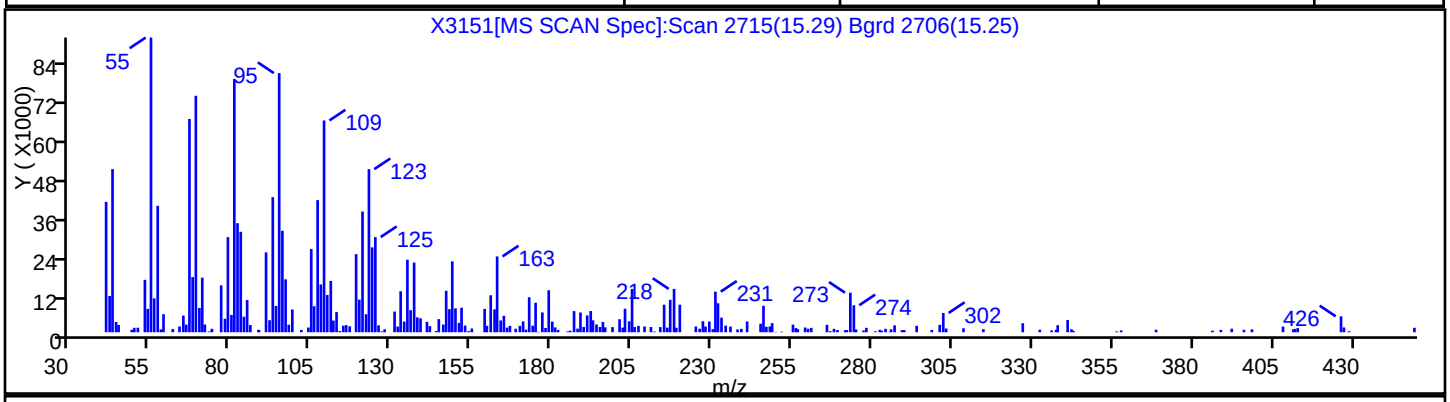


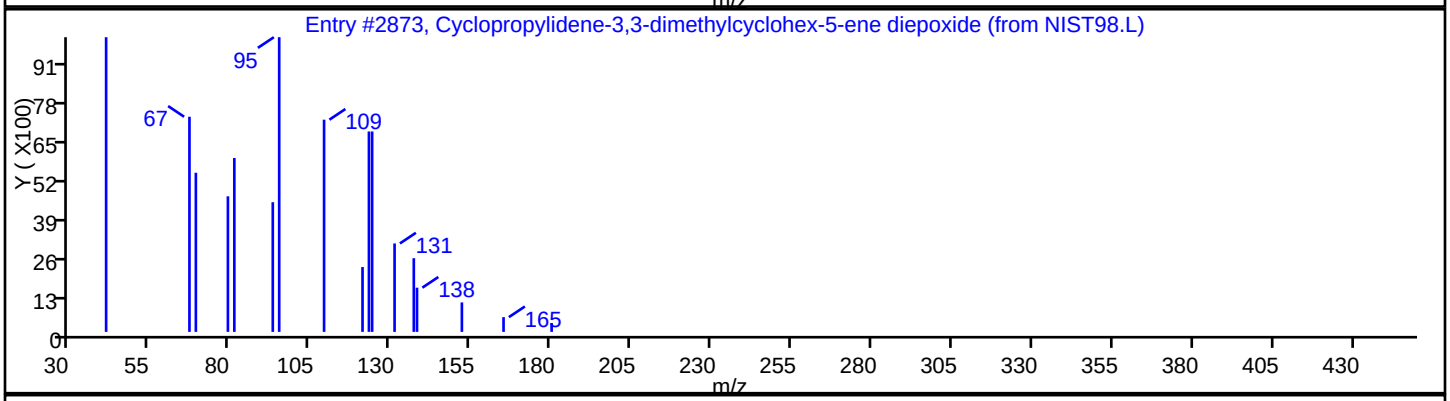
Report Date: 09-Mar-2013 09:11:29 Chrom Revision: 2.0 01-Feb-2013 10:03:10

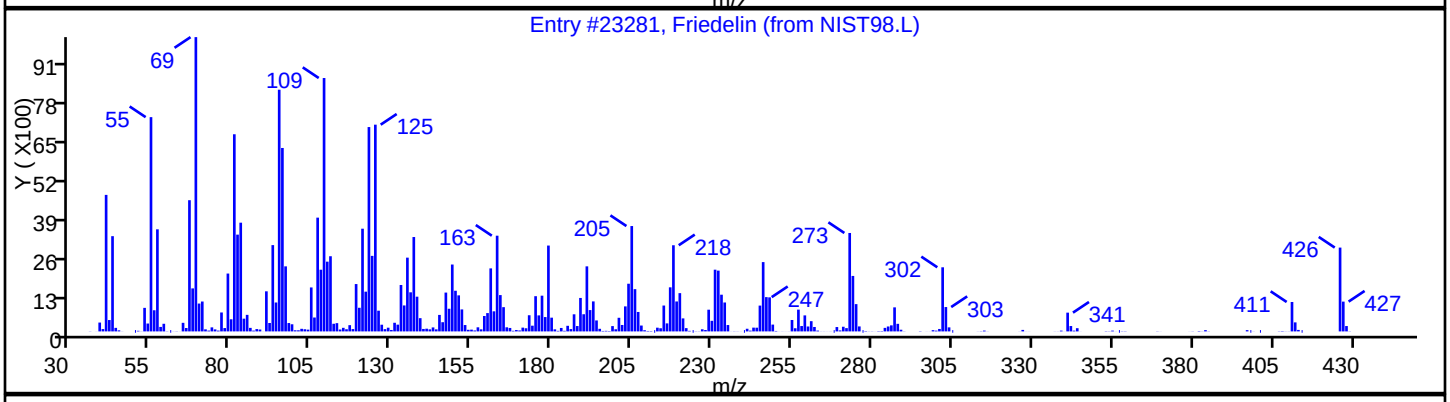
TestAmerica Buffalo

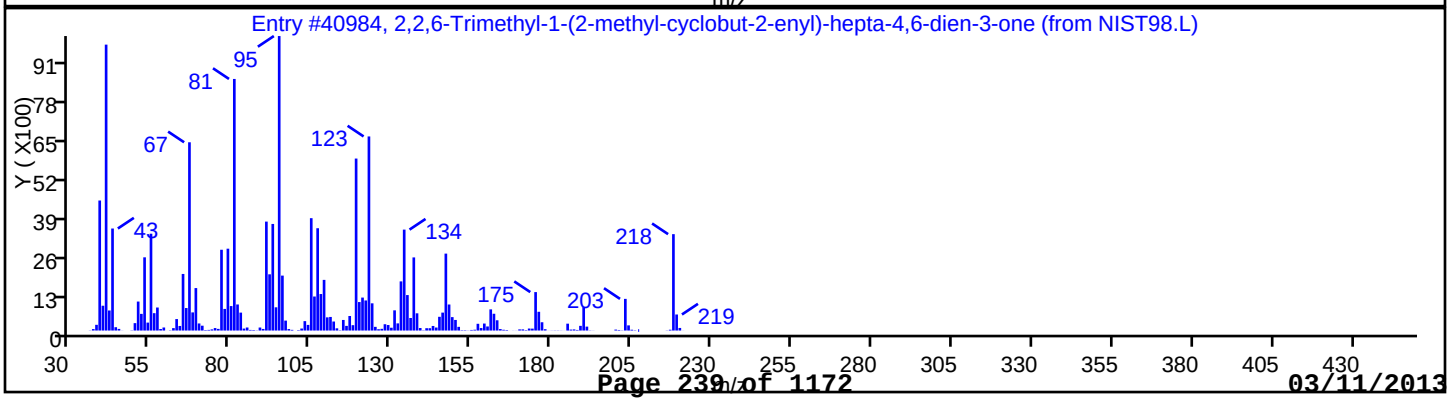
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3151.D		
Injection Date:	18-Dec-2012 20:42:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-529-1.0/3.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	24
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Cyclopropylidene-3,3-dimethylcyclohex-5-	37643-19-9	NIST98.L	2873	62
Friedelin	559-74-0	NIST98.L	23281	60
2,2,6-Trimethyl-1-(2-methyl-cyclobut-2-e	1000188-72-8	NIST98.L	40984	49







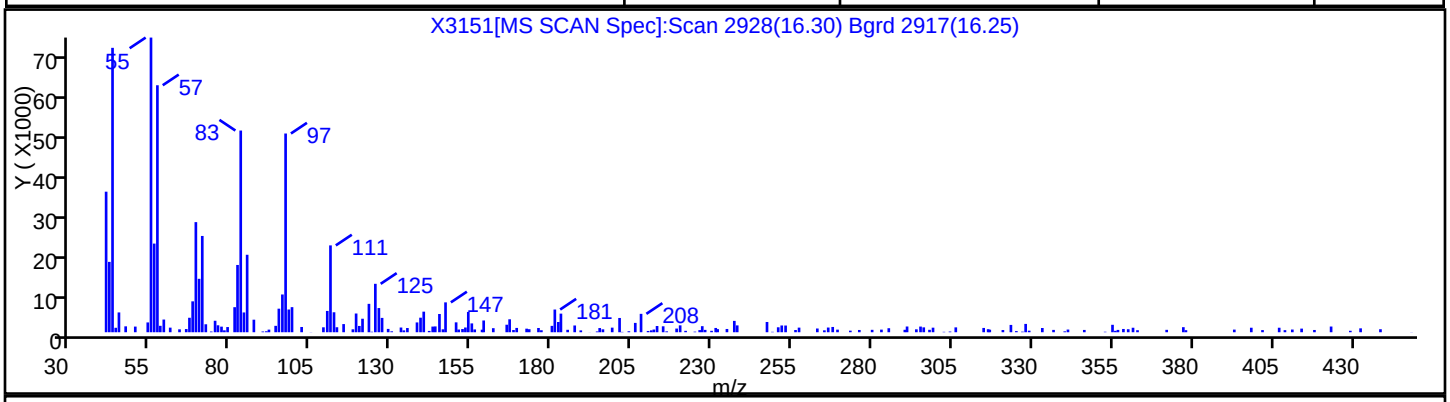


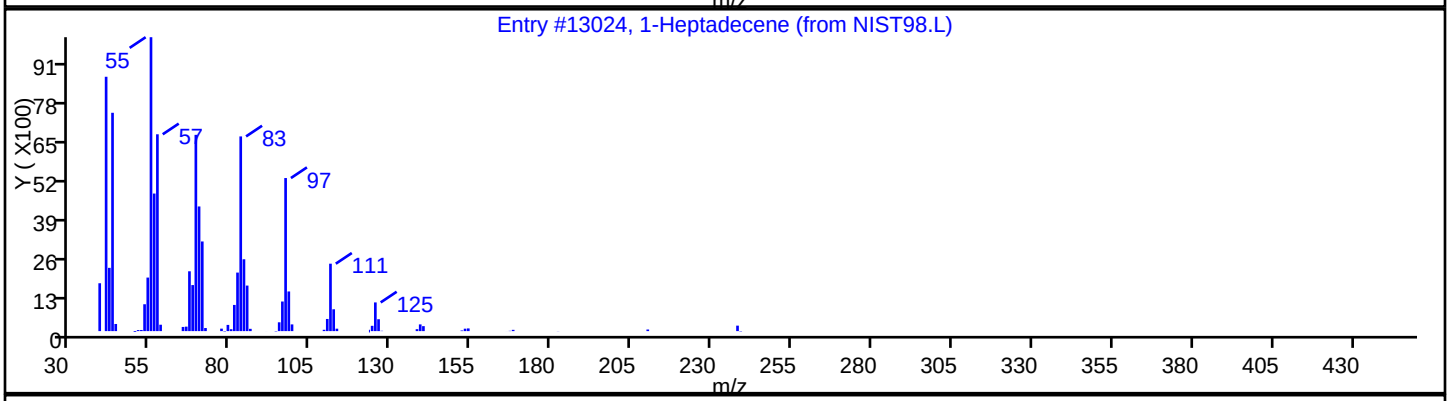
Report Date: 09-Mar-2013 09:11:29 Chrom Revision: 2.0 01-Feb-2013 10:03:10

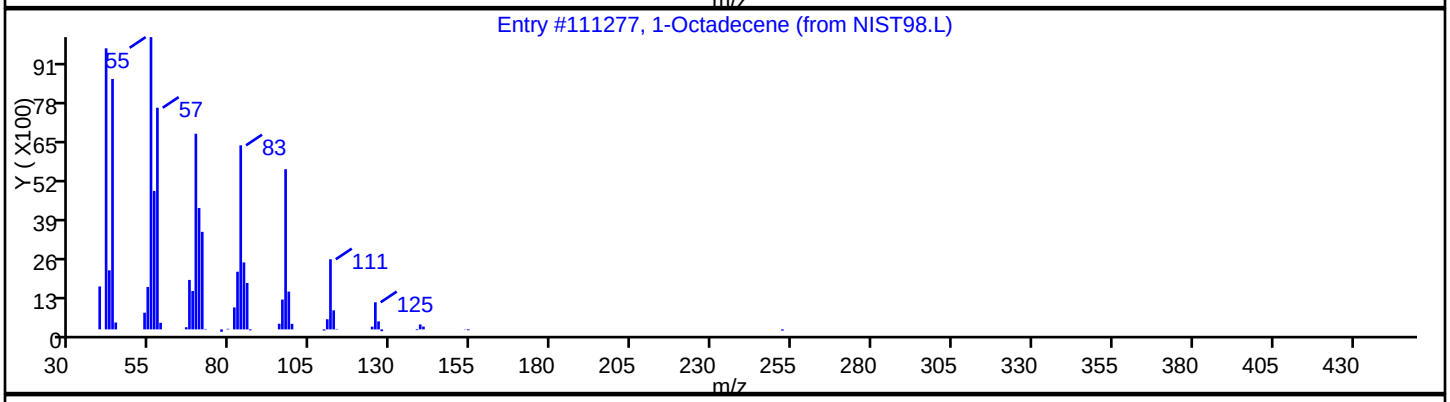
TestAmerica Buffalo

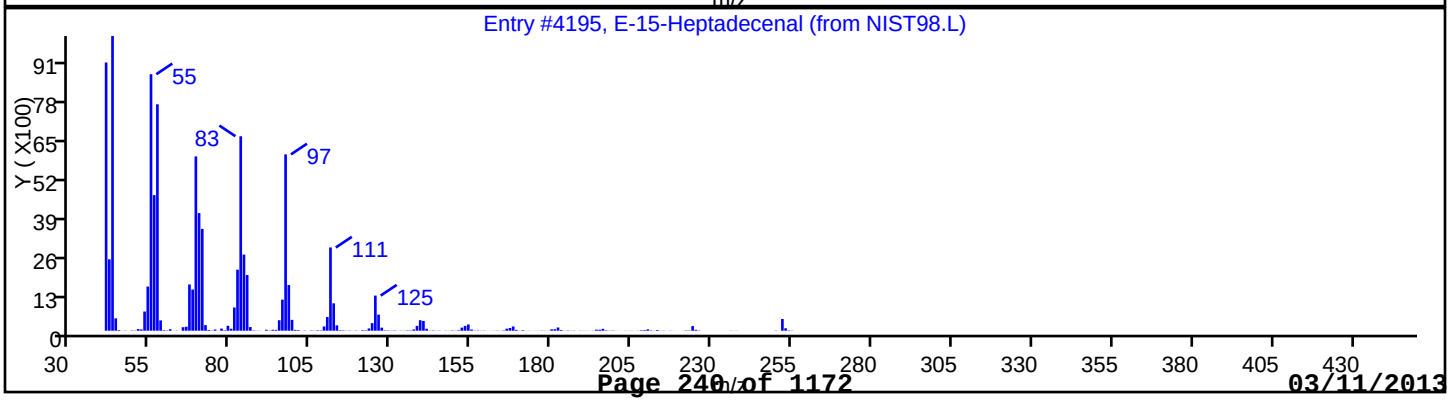
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3151.D		
Injection Date:	18-Dec-2012 20:42:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-529-1.0/3.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	24
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
1-Heptadecene	6765-39-5	NIST98.L	13024	90
1-Octadecene	112-88-9	NIST98.L	111277	90
E-15-Heptadecenal	1000130-97-9	NIST98.L	4195	83







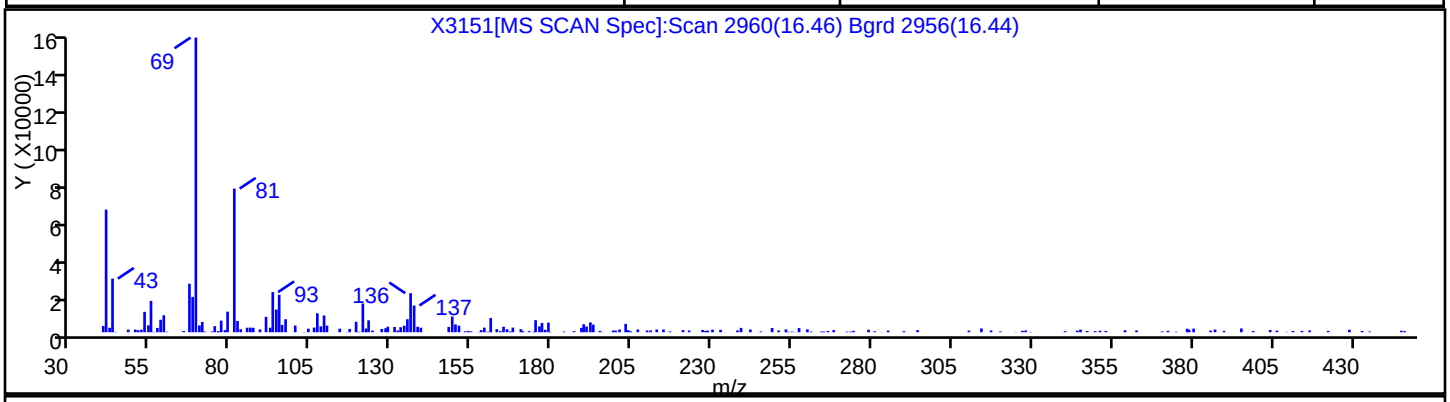


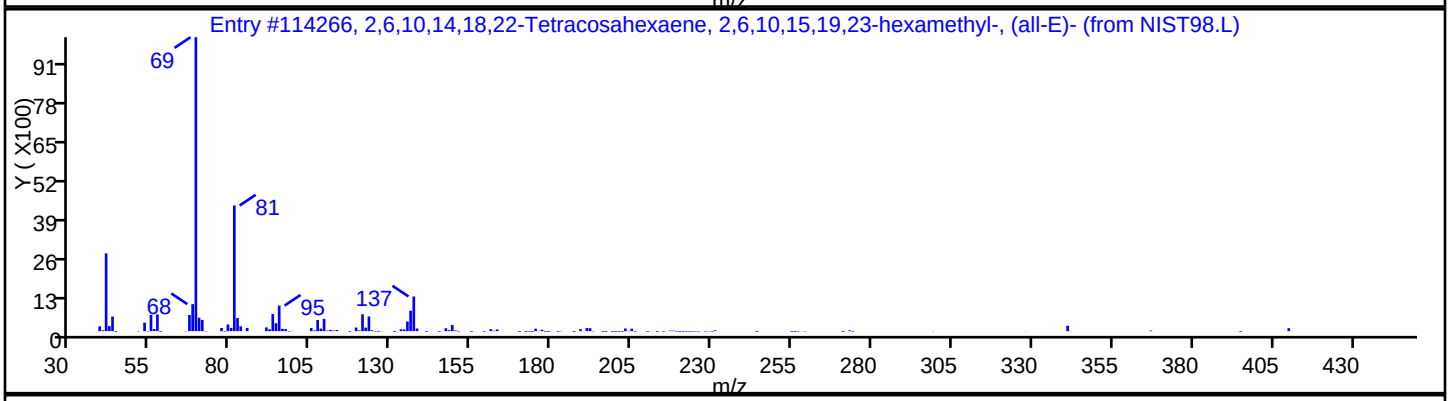
Report Date: 09-Mar-2013 09:11:29 Chrom Revision: 2.0 01-Feb-2013 10:03:10

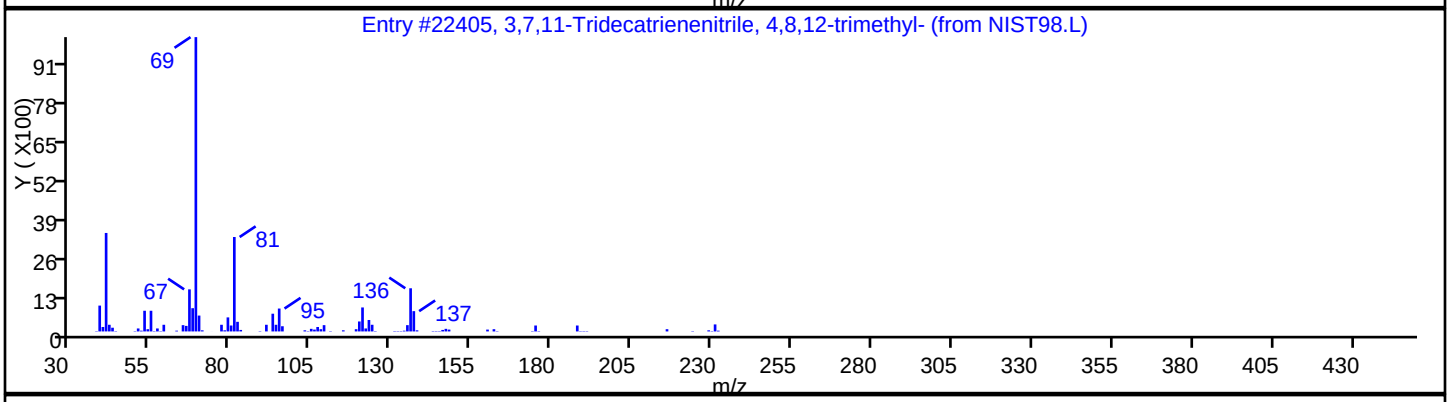
TestAmerica Buffalo

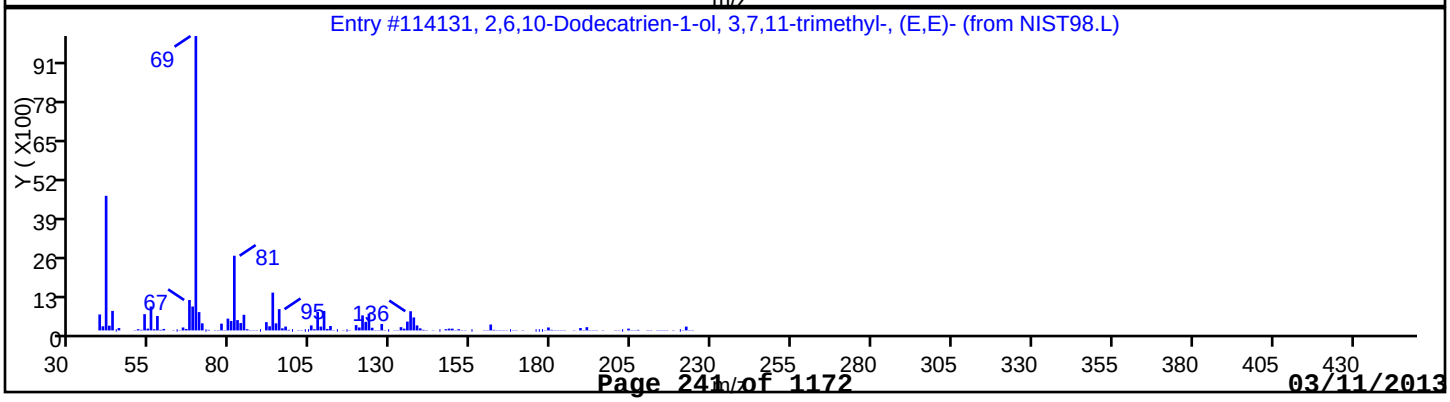
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3151.D		
Injection Date:	18-Dec-2012 20:42:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-529-1.0/3.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	24
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
2,6,10,14,18,22-Tetracosahexaene, 2,6,10	111-2-4	NIST98.L	114266	80
3,7,11-Tridecatrienenitrile, 4,8,12-trim	6006-1-5	NIST98.L	22405	78
2,6,10-Dodecatrien-1-ol, 3,7,11-trimethy	106-28-5	NIST98.L	114131	78







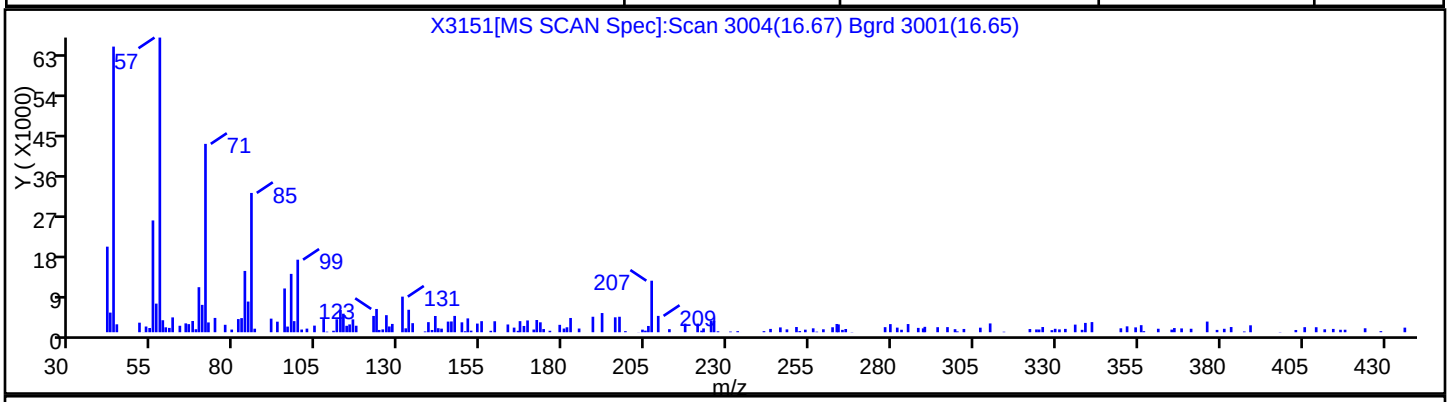


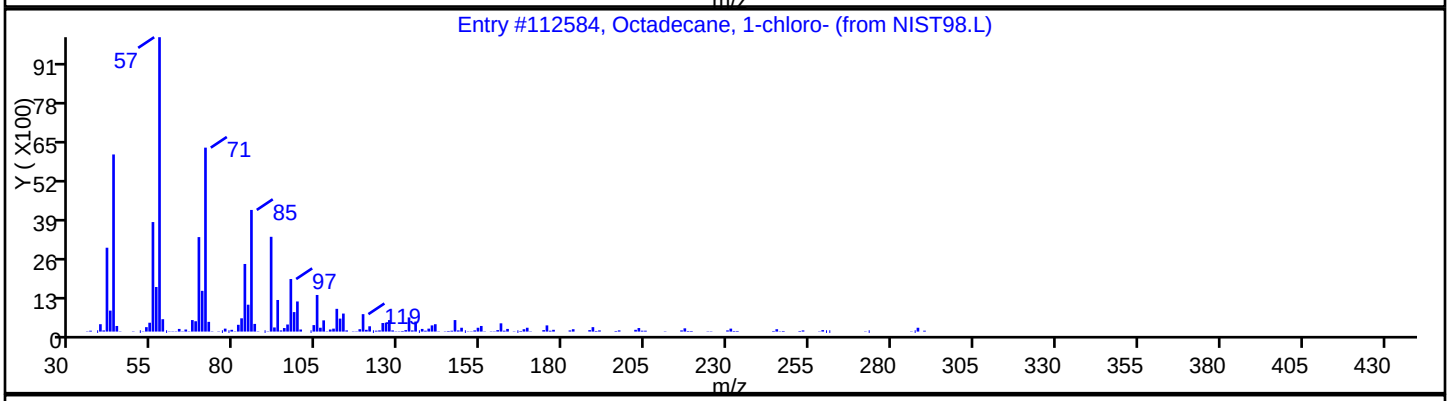
Report Date: 09-Mar-2013 09:11:29 Chrom Revision: 2.0 01-Feb-2013 10:03:10

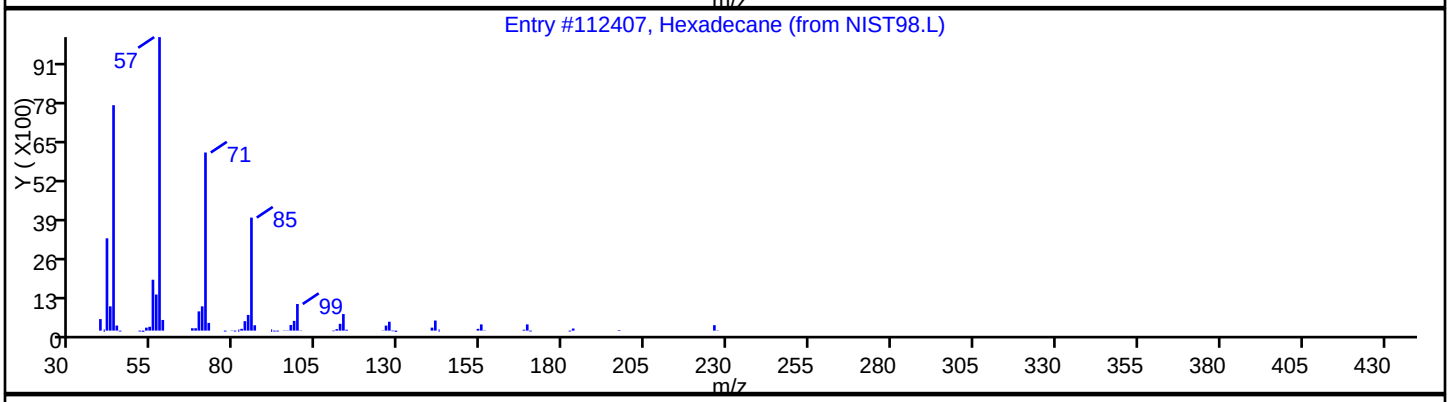
TestAmerica Buffalo

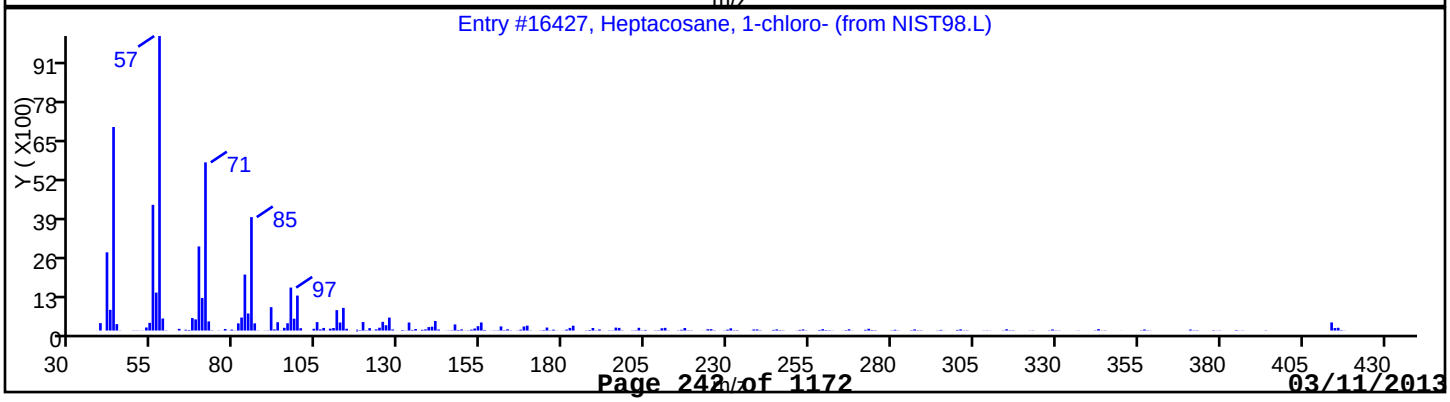
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3151.D		
Injection Date:	18-Dec-2012 20:42:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-529-1.0/3.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	24
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Octadecane, 1-chloro-	3386-33-2	NIST98.L	112584	90
Hexadecane	544-76-3	NIST98.L	112407	83
Heptacosane, 1-chloro-	62016-79-9	NIST98.L	16427	81







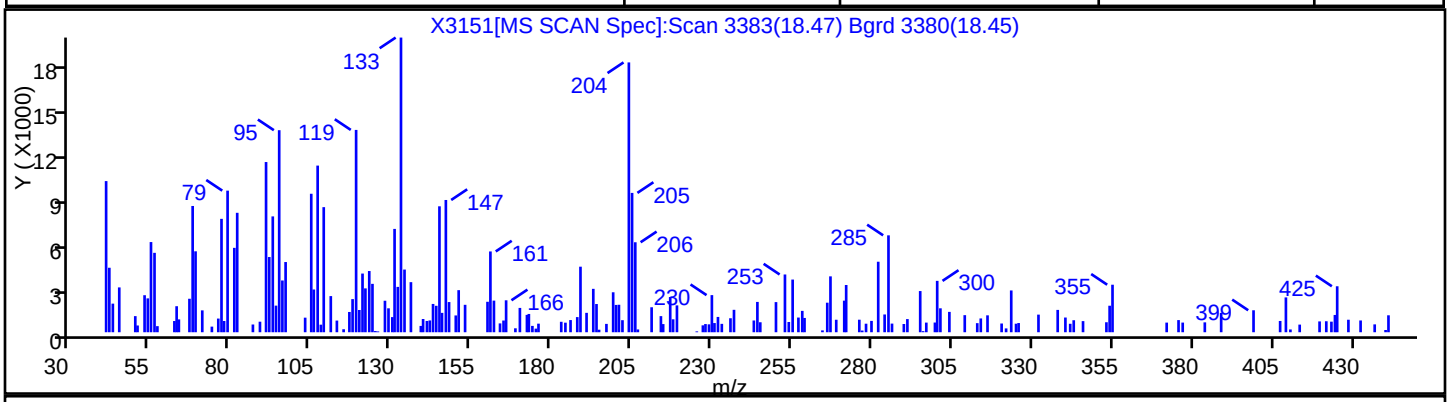


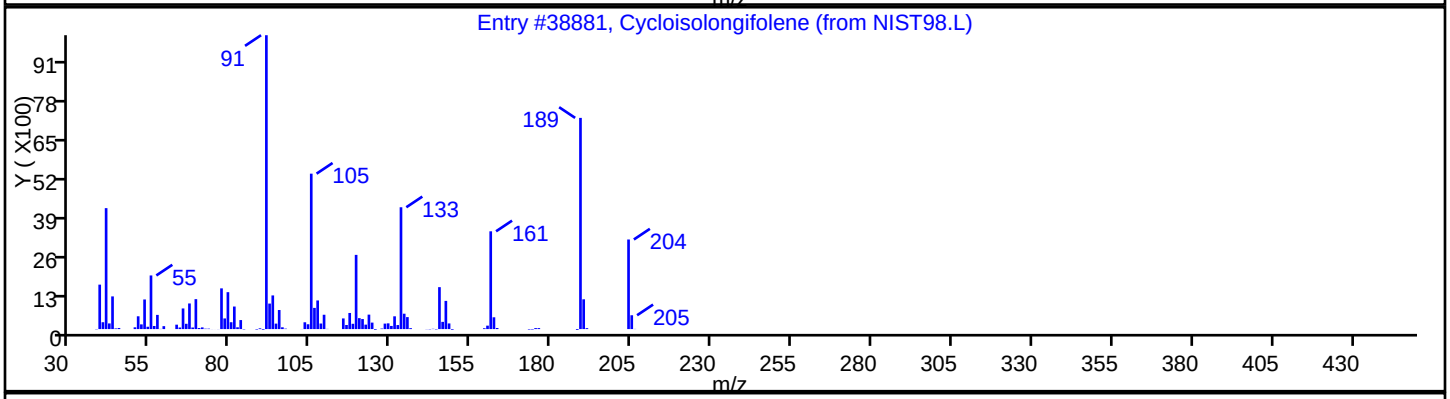
Report Date: 09-Mar-2013 09:11:29 Chrom Revision: 2.0 01-Feb-2013 10:03:10

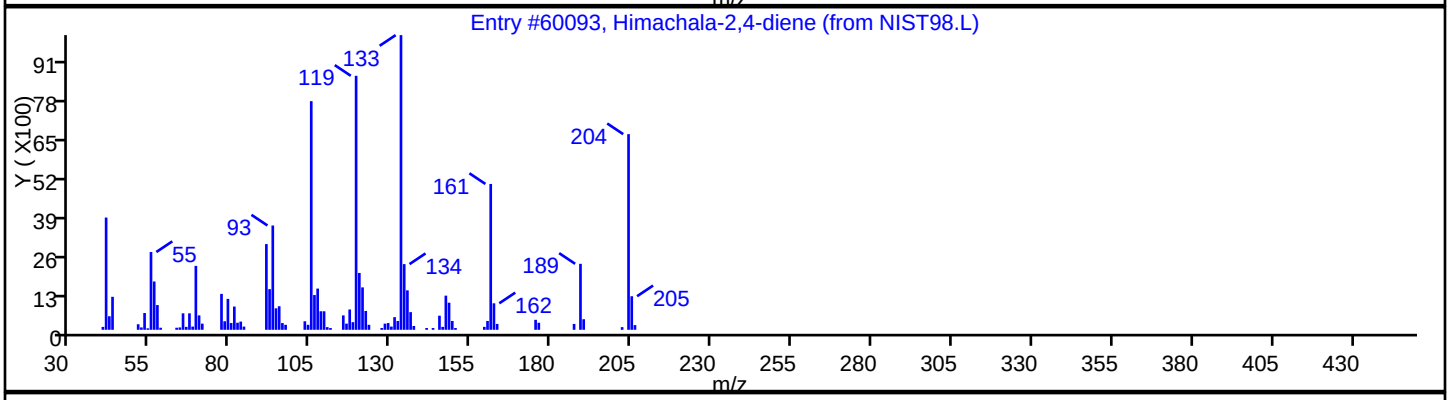
TestAmerica Buffalo

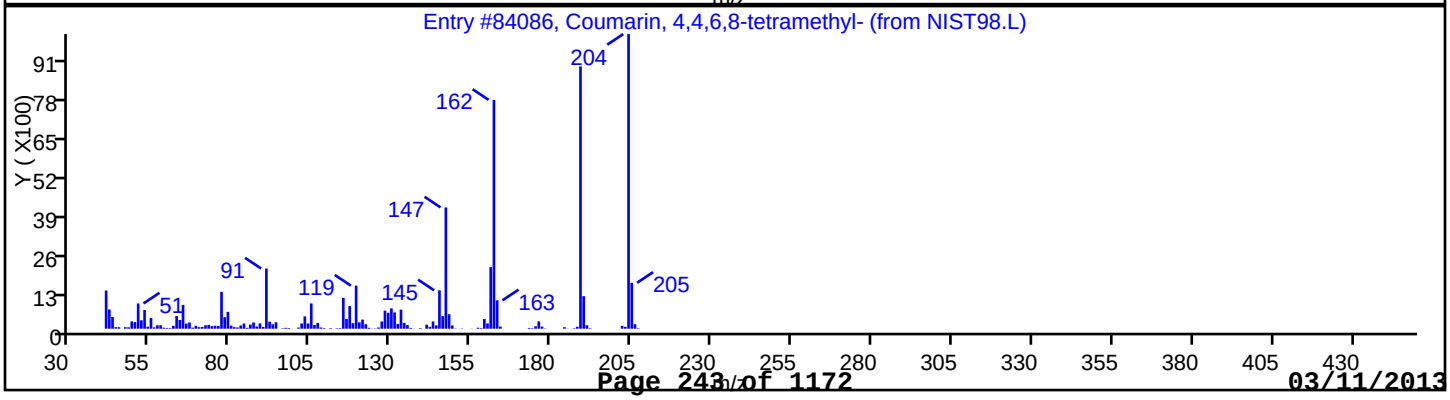
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3151.D		
Injection Date:	18-Dec-2012 20:42:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:	OC-SB-529-1.0/3.0-XXX	Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	24
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Cycloisolongifolene	1000151-99-7	NIST98.L	38881	53
Himachala-2,4-diene	1000140-7-9	NIST98.L	60093	41
Coumarin, 4,4,6,8-tetramethyl-	1000128-90-4	NIST98.L	84086	27









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

Lab Name: TestAmerica Buffalo Job No.: 480-29598-1 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.: 480-29598-1 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.: 480-29598-1 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.: 480-29598-1 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.: 480-29598-1 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.: 480-29598-1 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.: 480-29598-1 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		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.: 480-29598-1 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	423301	11611 337292	27547 551924	72851 745358	156965	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
2,4,5-Trichlorophenol	ANT	Ave	387150	14692 310061	23950 522303	73198 739930	137551	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
1,1'-Biphenyl	ANT	Ave	1980431	70247 1623648	147932 2539483	378332 3372086	809768	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
2-Chloronaphthalene	ANT	Lin1	1457956	115849 1187040	165356 1959232	323689 2635052	668430	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Phenyl ether	ANT	Ave	1031531	38232 880313	78549 1381412	206565 1925297	449001	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
2-Nitroaniline	ANT	Ave	487023	14515 414625	24342 680120	71533 974942	174954	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Dimethyl phthalate	ANT	Ave	1765594	58407 1466290	131233 2327603	340849 3207926	712993	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
2,6-Dinitrotoluene	ANT	Ave	832086	21625 682331	60374 1103880	146693 1566924	327996	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Acenaphthylene	ANT	Ave	2328468	88280 1934738	189943 3043882	462652 3983727	946253	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
3-Nitroaniline	ANT	Ave	424215	344877	21070 606310	74904 789115	135474	8.00	10.0	1.00 15.0	2.50 20.0	5.00
Acenaphthene	ANT	Ave	17157 1522028	60610 1279309	124892 2009024	302406 2728770	636064	0.100 8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
2,4-Dinitrophenol	ANT	QuaF	362929	263071	7990 495556	35900 846602	117671	16.0	20.0	2.00 30.0	5.00 40.0	10.0
Dibenzofuran	ANT	Ave	9367 2086550	78290 1759046	158117 2713459	406272 3637301	881367	0.100 8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
2,4-Dinitrotoluene	ANT	Ave	556737	13719 434611	40061 751696	82195 1039381	192907	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
4-Nitrophenol	ANT	Ave	742608	599830	35867 1031347	117392 1414081	240901	16.0	20.0	2.00 30.0	5.00 40.0	10.0
2,3,4,6-Tetrachlorophenol	ANT	Ave	354070	7906 265067	25922 363823	68881 525225	104485	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Diethyl phthalate	ANT	Ave	1906615	65968 1570153	157267 2463981	375633 3276872	789783	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
Fluorene	ANT	Ave	1869207	64267 1495486	142510 2378424	356637 3205979	767084	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
4-Chlorophenyl phenyl ether	ANT	Ave	786759	28503 690804	67135 1051673	144079 1460150	343625	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
4-Nitroaniline	ANT	Lin1	429983	571 355912	28981 596014	71047 816043	152208	8.00	0.500 10.0	1.00 15.0	2.50 20.0	5.00
4,6-Dinitro-2-methylphenol	ANT	Lin1	599821	8320 460957	21166 797804	63572 1135498	203339	16.0	1.00 20.0	2.00 30.0	5.00 40.0	10.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-29598-1 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.: 480-29598-1 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	

Report Date: 18-Dec-2012 16:42:57 Chrom Revision: 2.0 22-Oct-2012 16:30:48
Data File: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3131.D

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

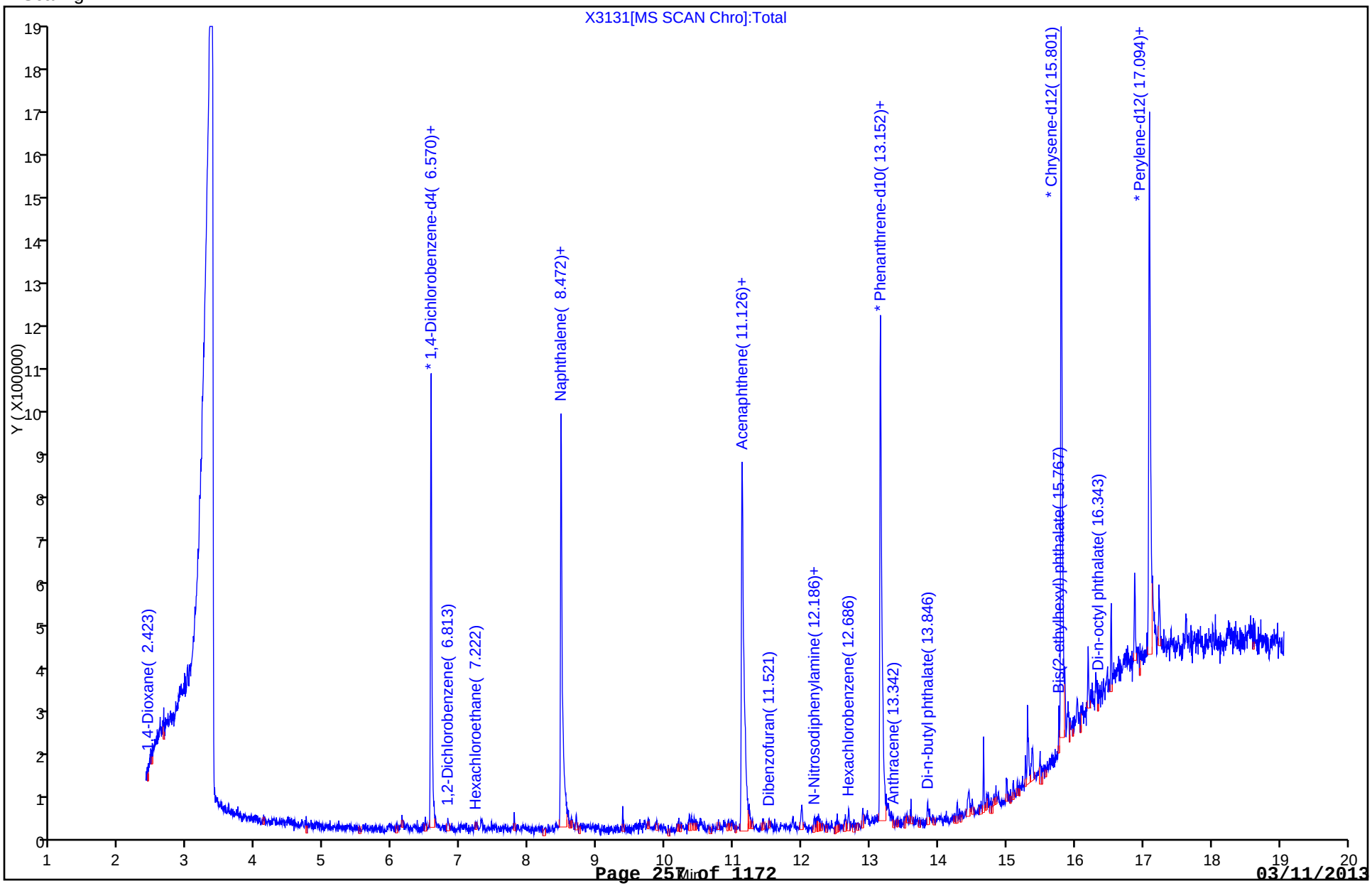
Review Flags
M - Manually Integrated

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:



Manual Integration/User Assign Peak Report

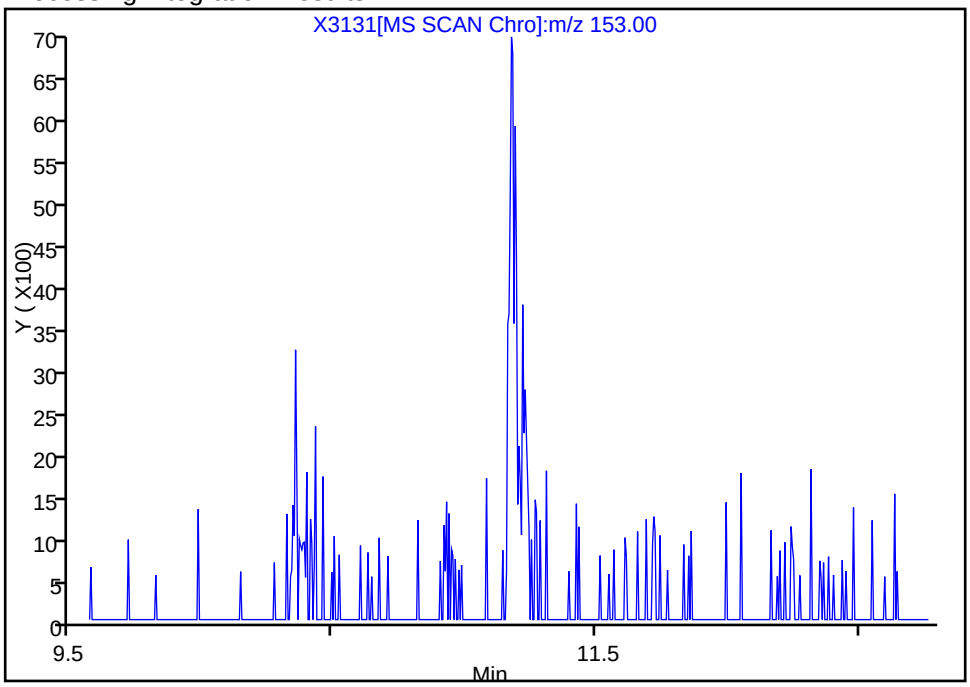
TestAmerica Buffalo

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

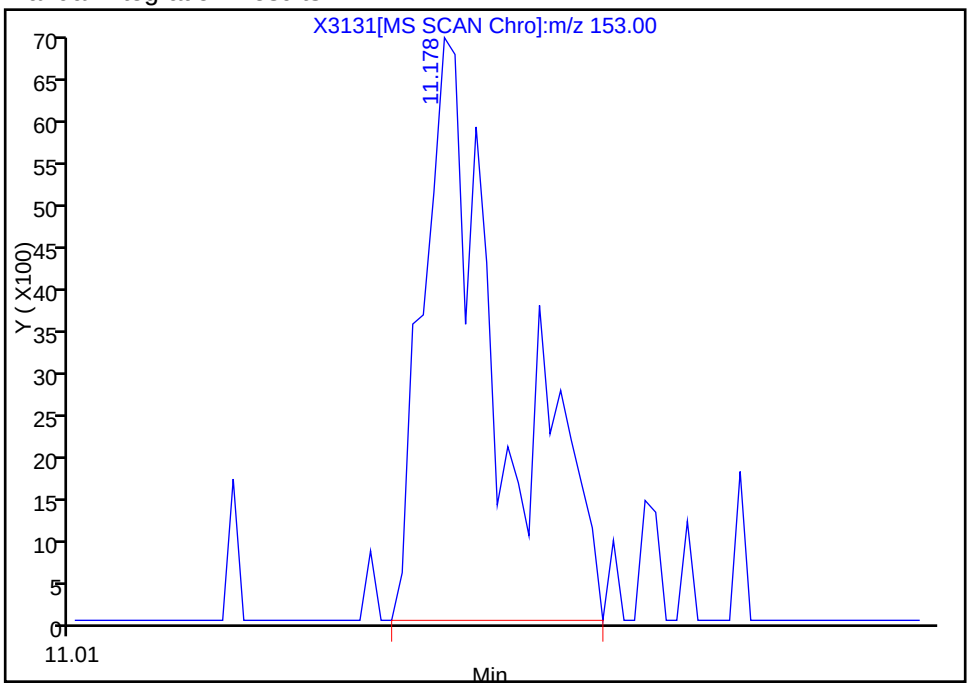
Processing Integration Results

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

Manual Integration/User Assign Peak Report

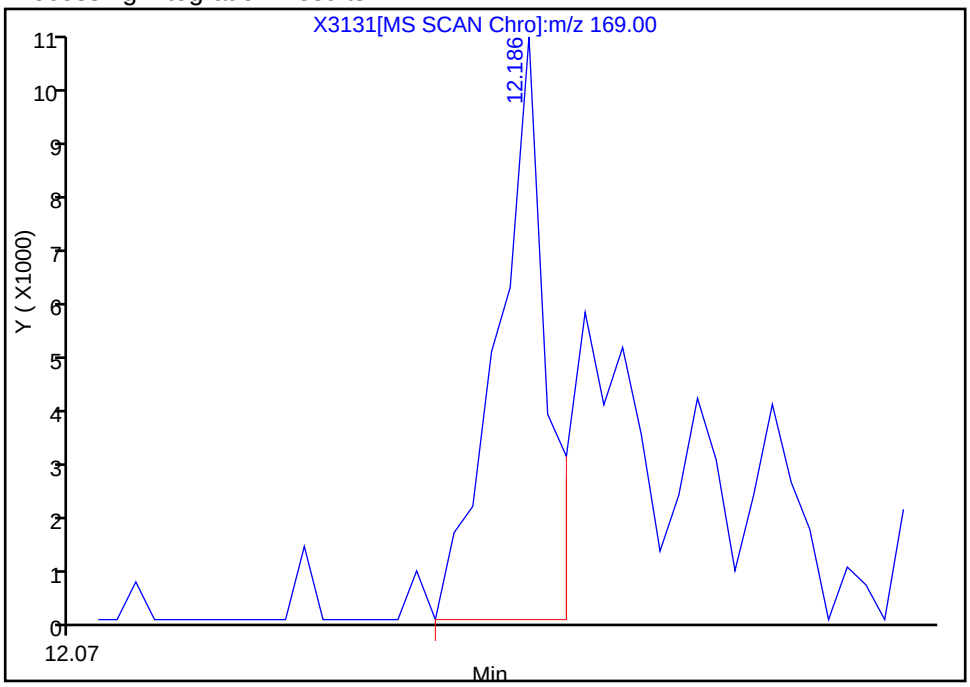
TestAmerica Buffalo

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

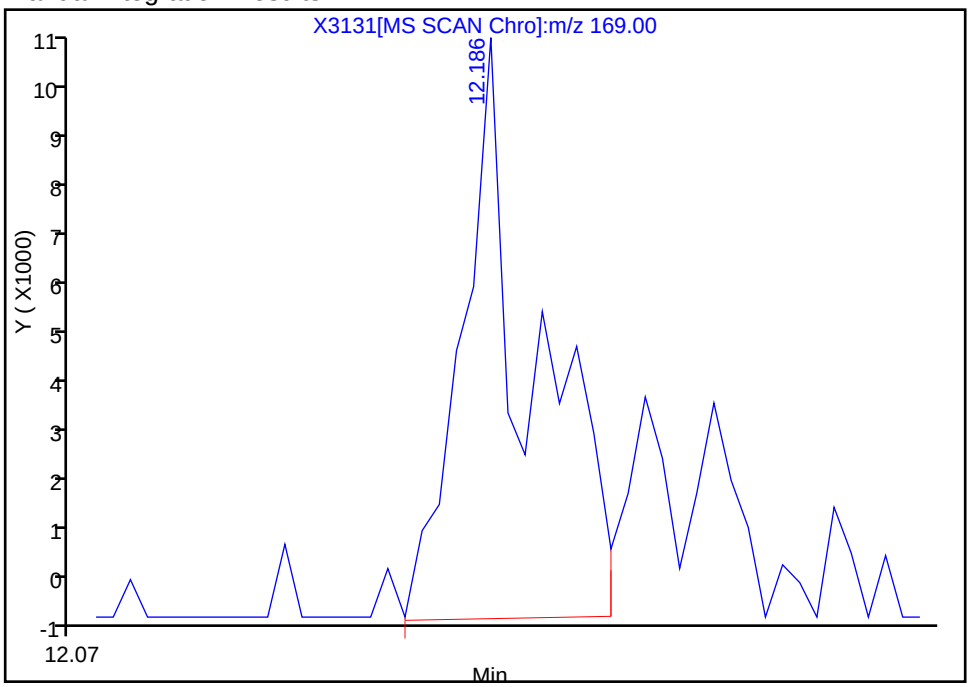
Processing Integration Results

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

Manual Integration/User Assign Peak Report

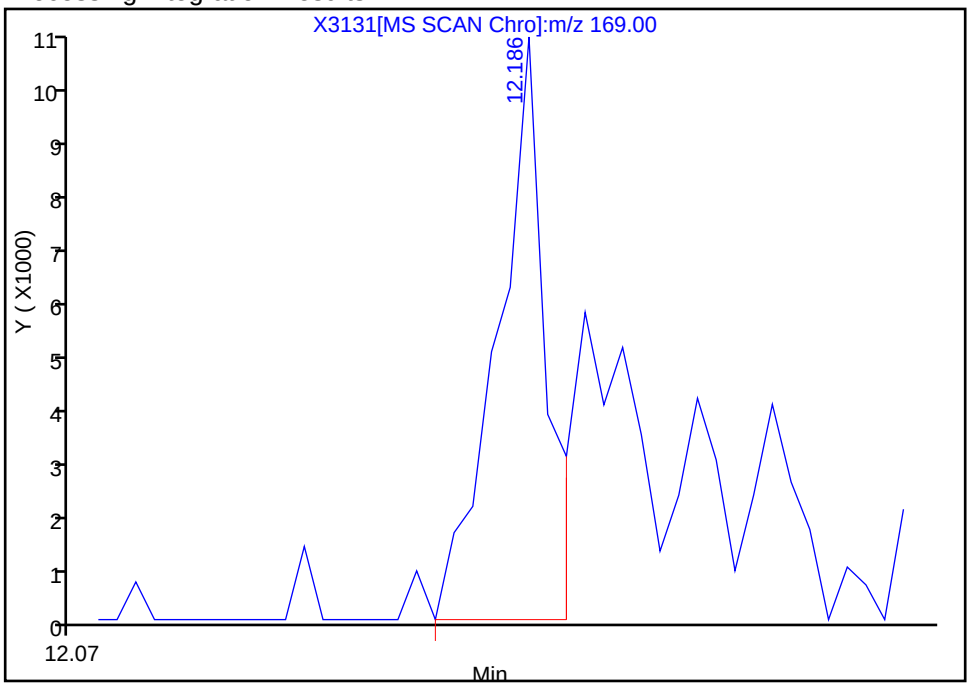
TestAmerica Buffalo

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

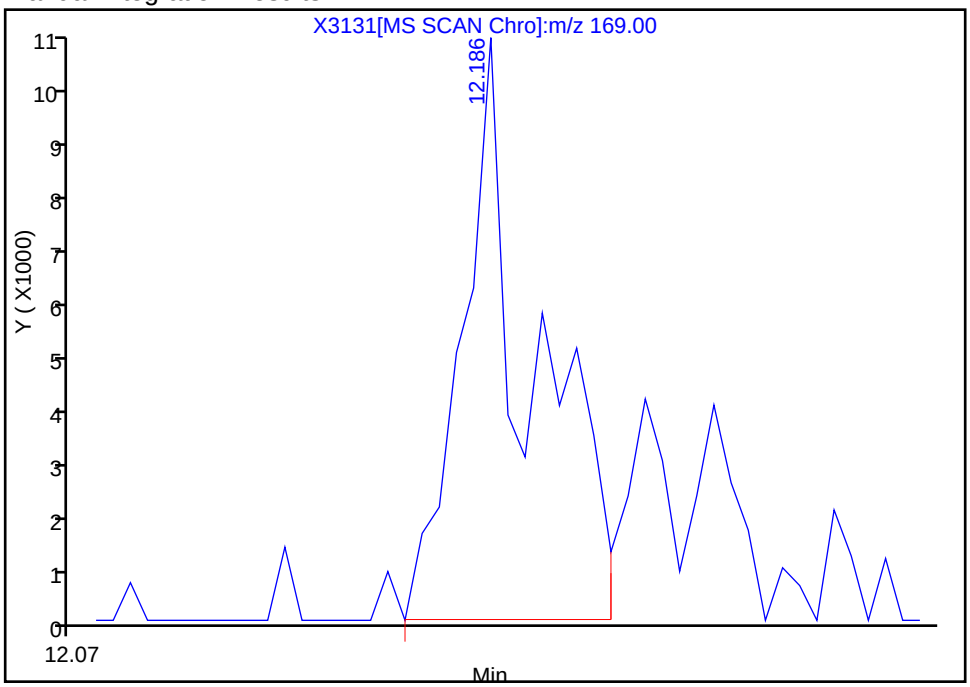
Processing Integration Results

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

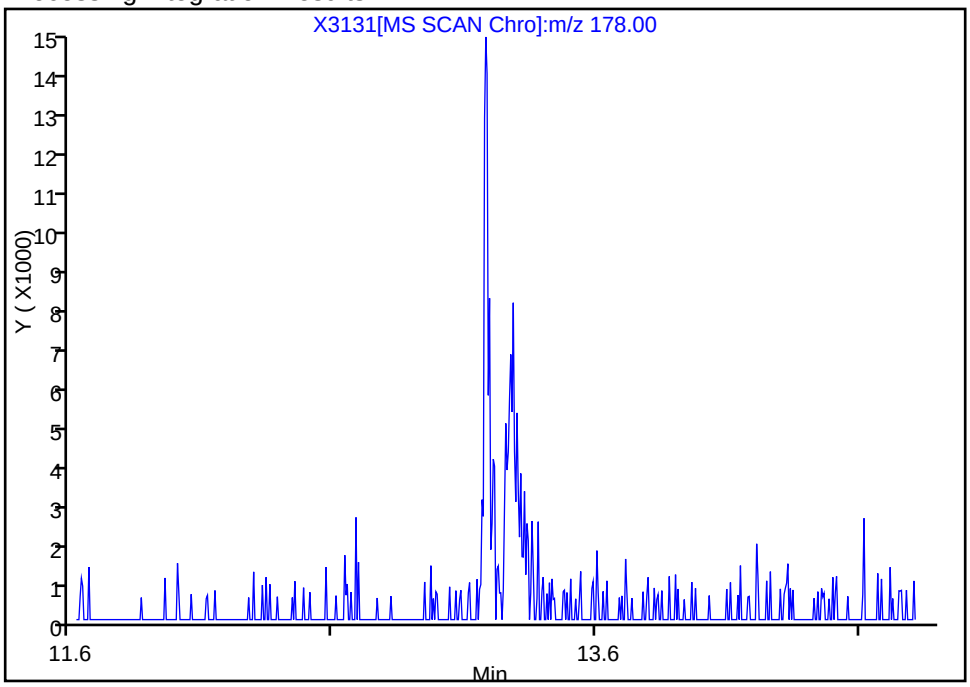
TestAmerica Buffalo

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

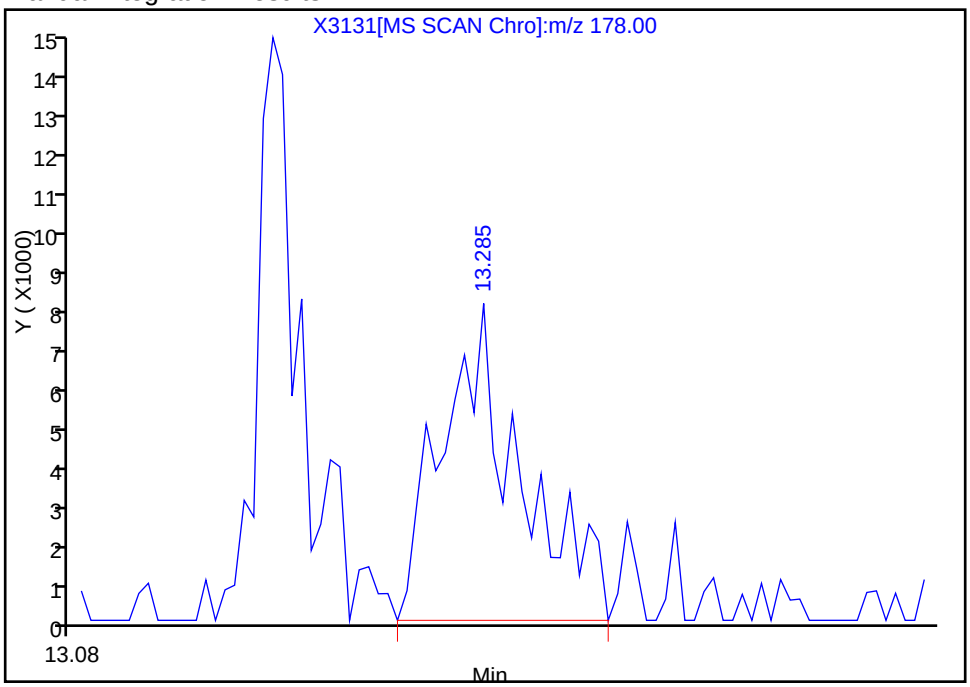
Processing Integration Results

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

Manual Integration/User Assign Peak Report

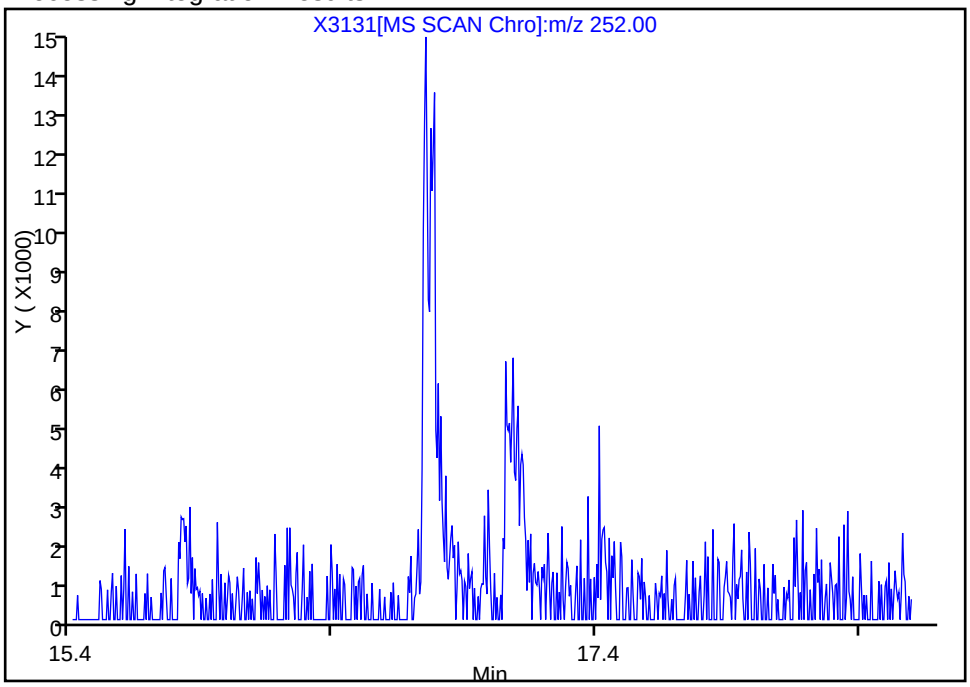
TestAmerica Buffalo

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

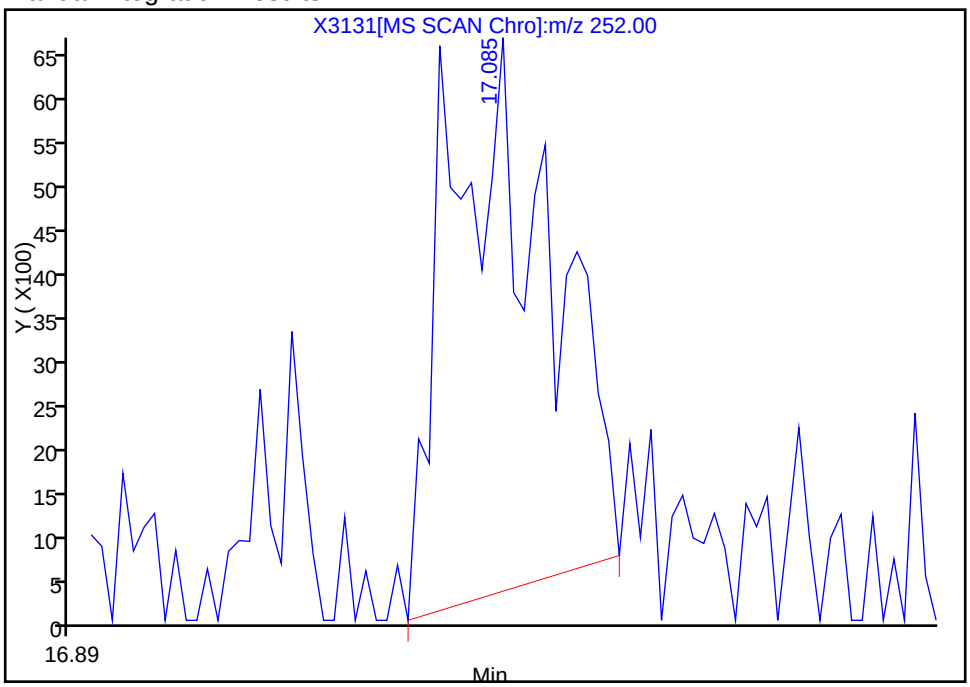
Processing Integration Results

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

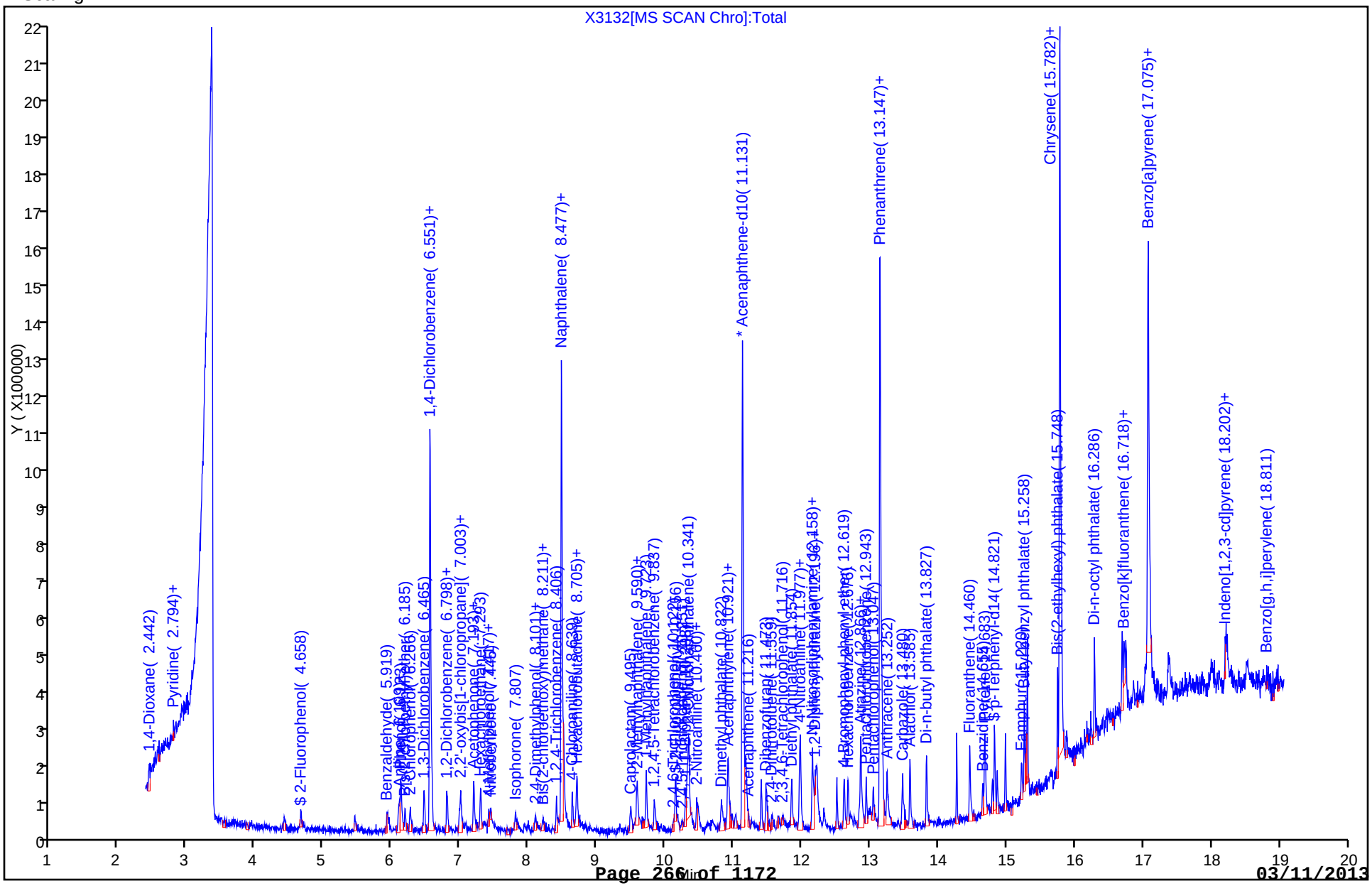
Review Flags
M - Manually Integrated

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

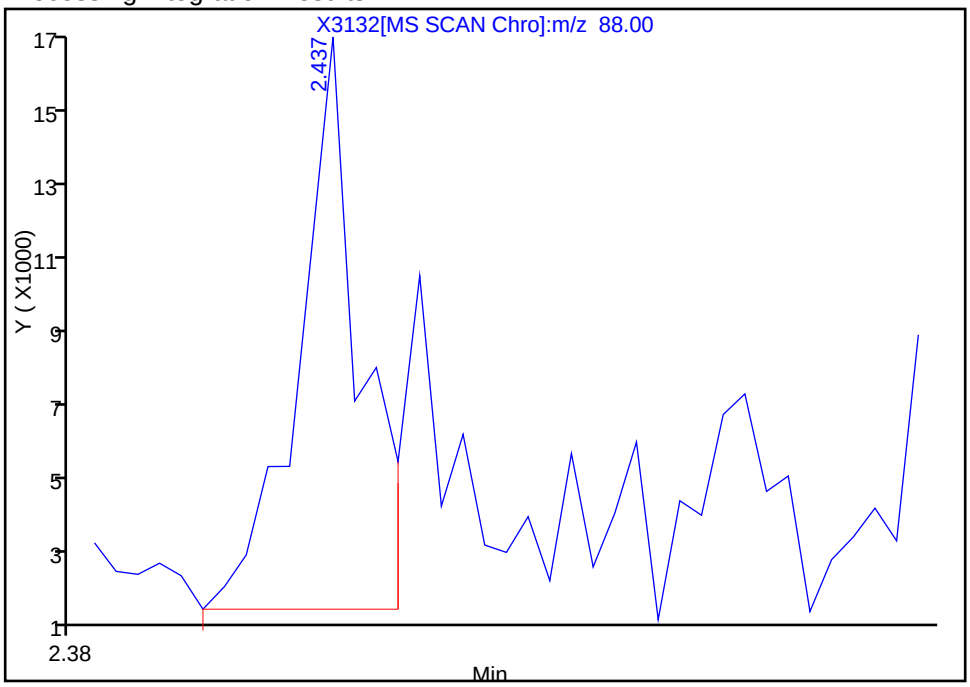
TestAmerica Buffalo

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

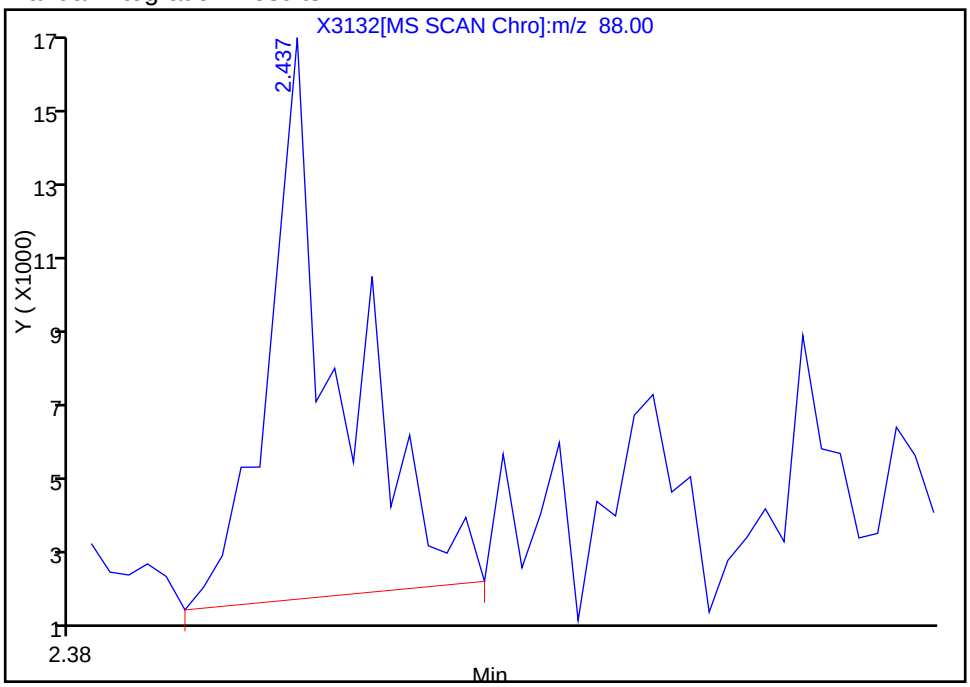
Processing Integration Results

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

Manual Integration/User Assign Peak Report

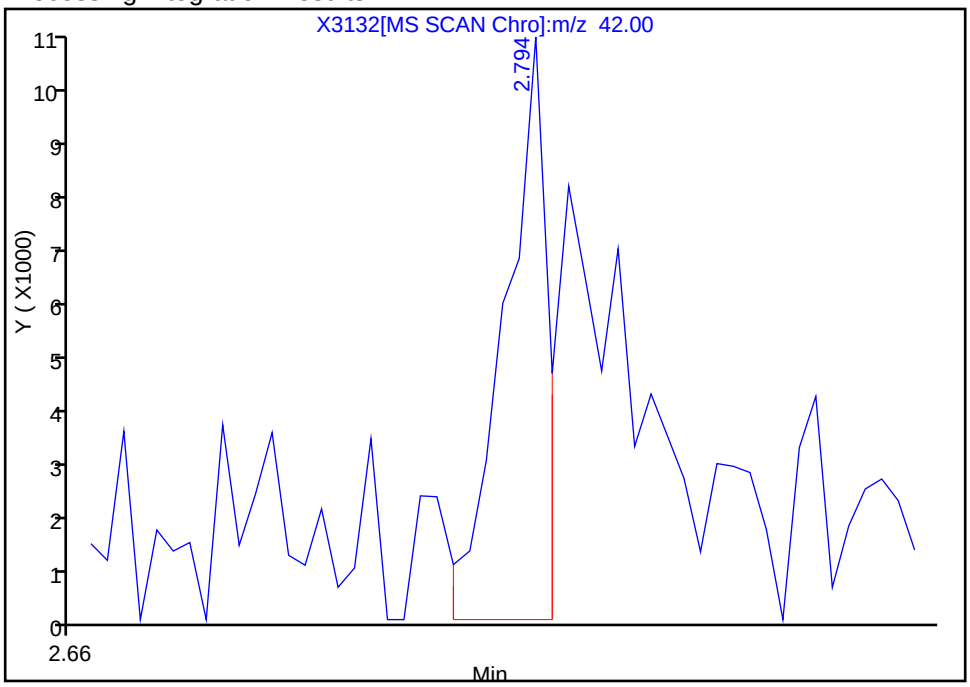
TestAmerica Buffalo

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

19 N-Nitrosodimethylamine, Signal: 1, m/z: 42.0 Type: quant, RT: 2.81

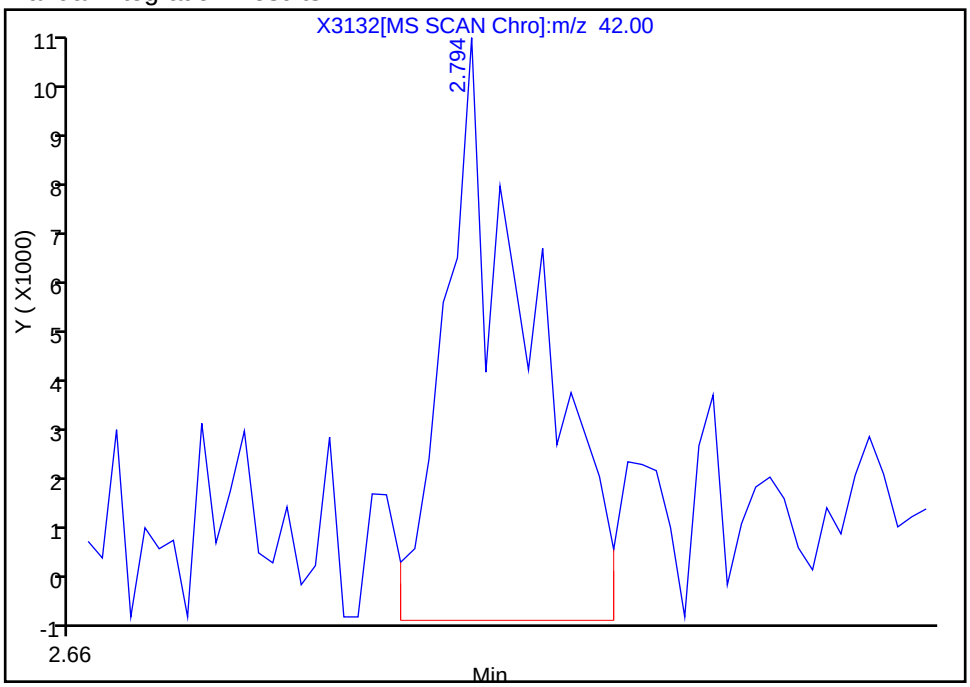
Processing Integration Results

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

Manual Integration/User Assign Peak Report

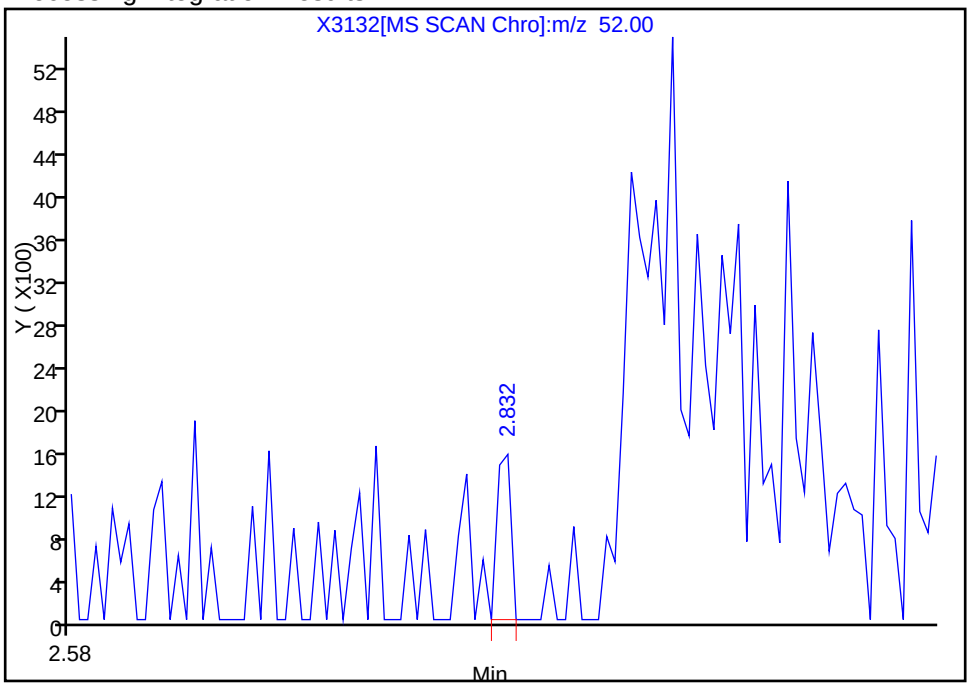
TestAmerica Buffalo

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

20 Pyridine, Signal: 1, m/z: 52.0 Type: quant, RT: 2.91

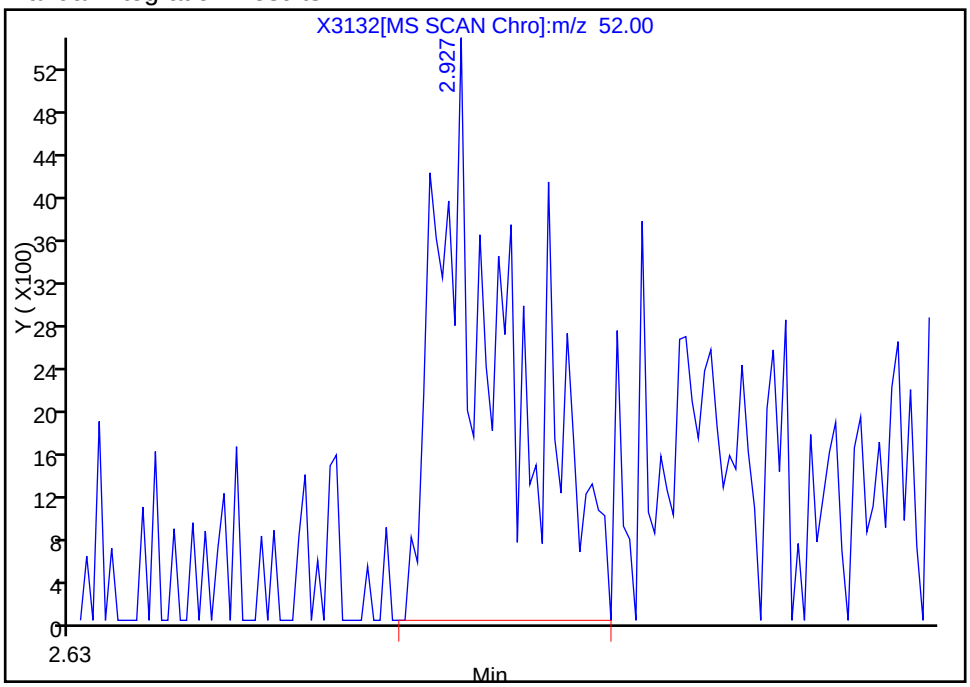
Processing Integration Results

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

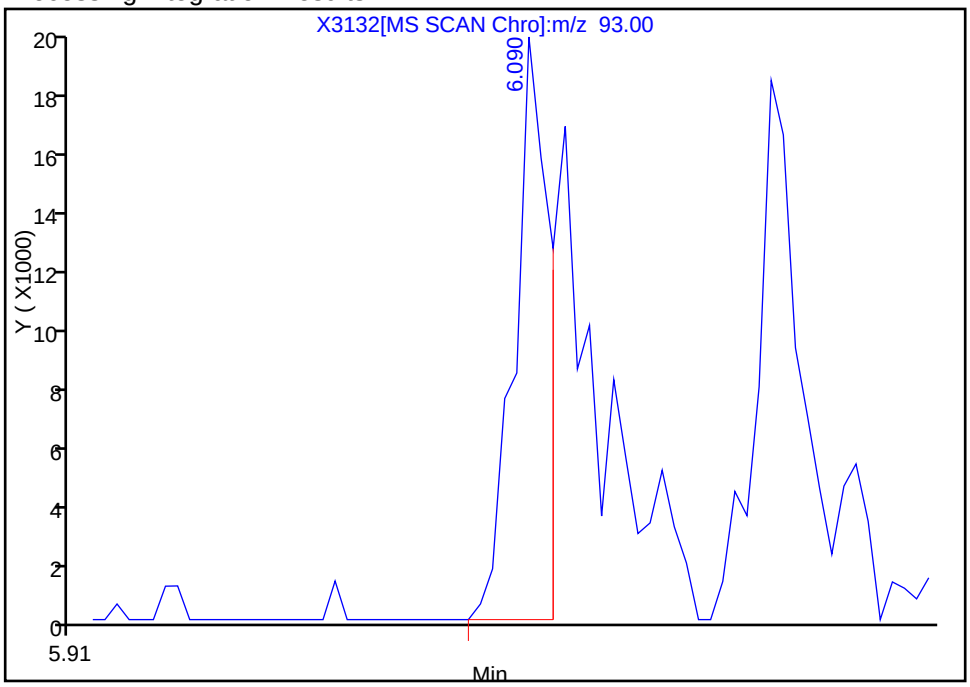
TestAmerica Buffalo

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

23 Aniline, Signal: 1, m/z: 93.0 Type: quant, RT: 6.13

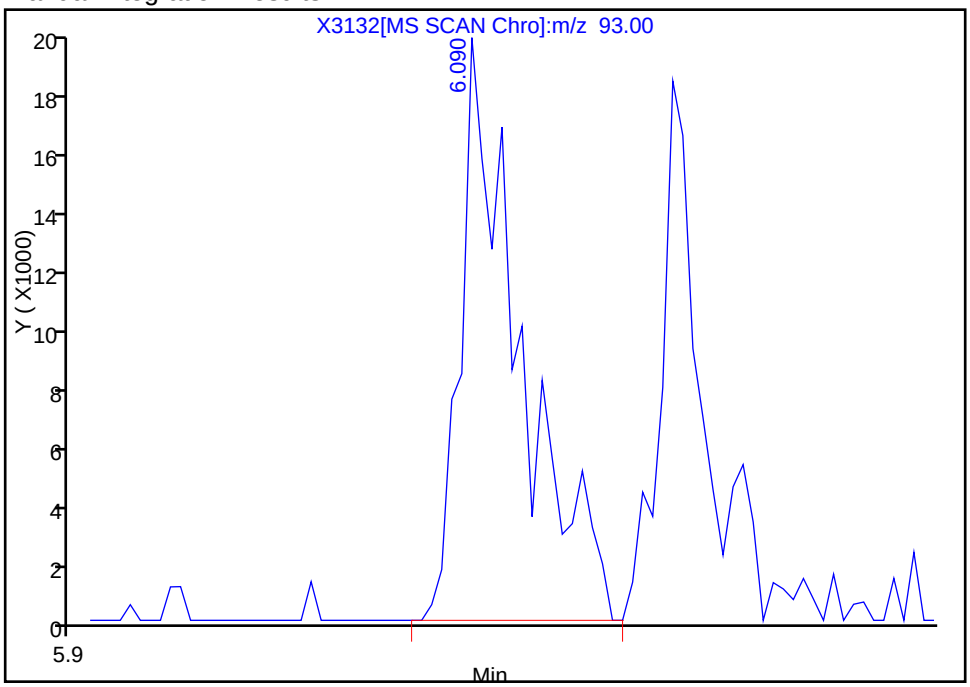
Processing Integration Results

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

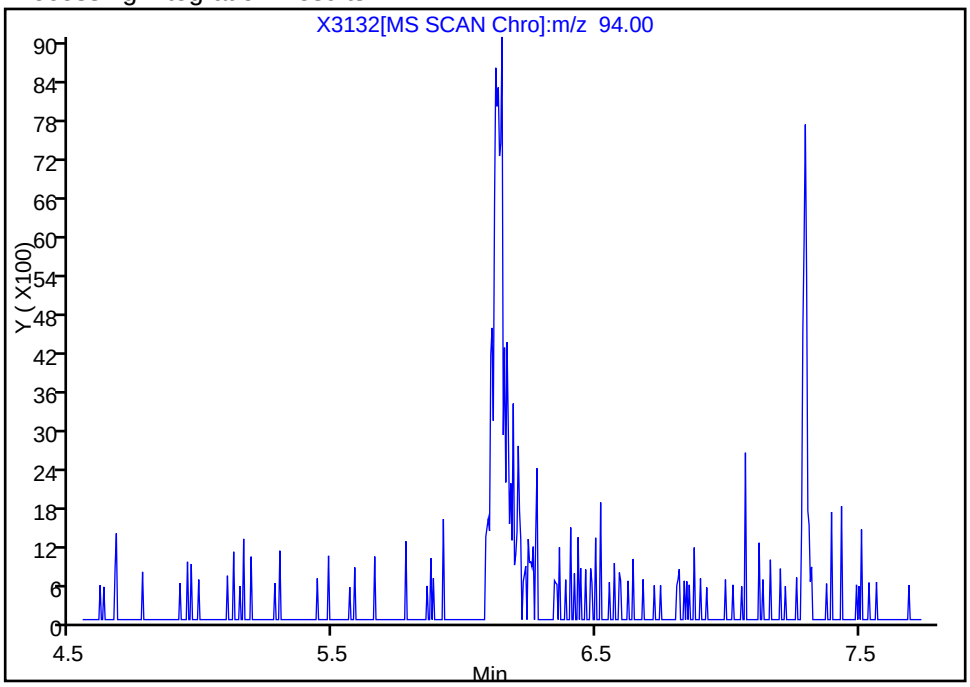
TestAmerica Buffalo

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

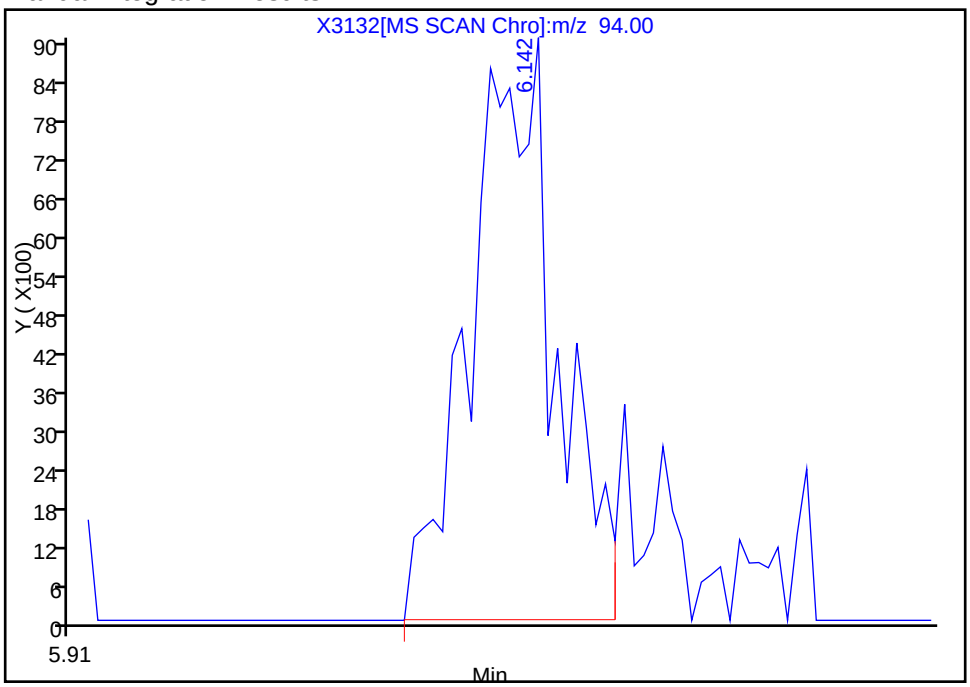
Processing Integration Results

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

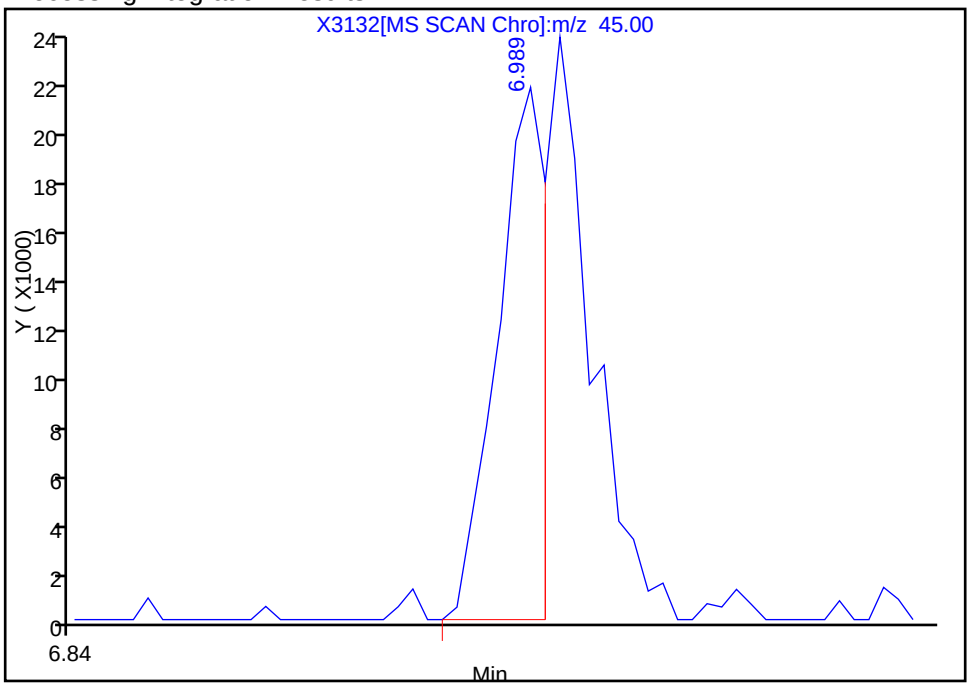
TestAmerica Buffalo

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

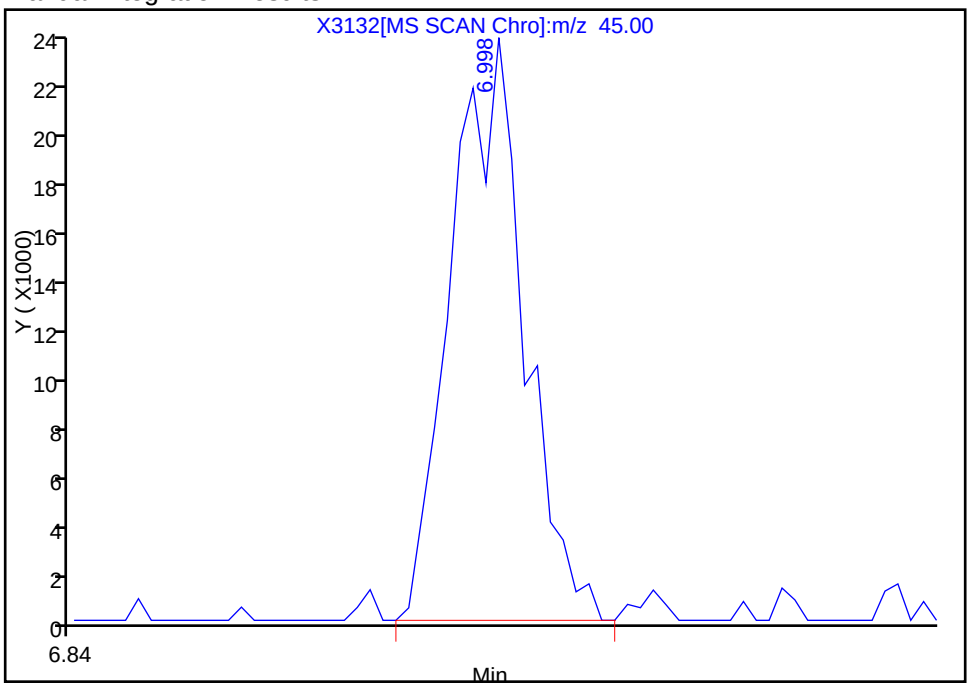
Processing Integration Results

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

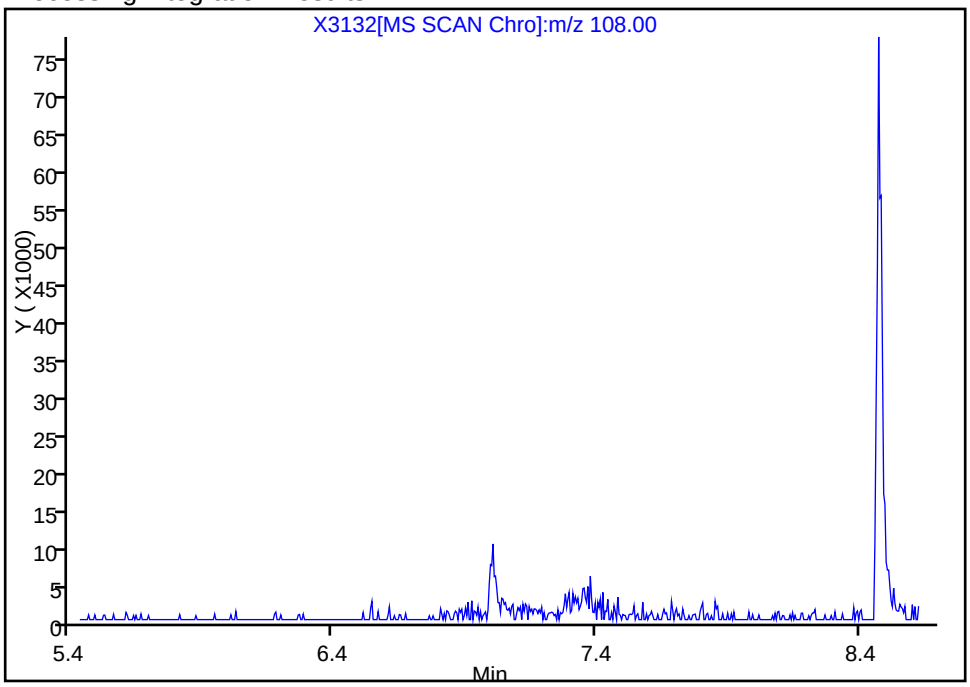
TestAmerica Buffalo

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

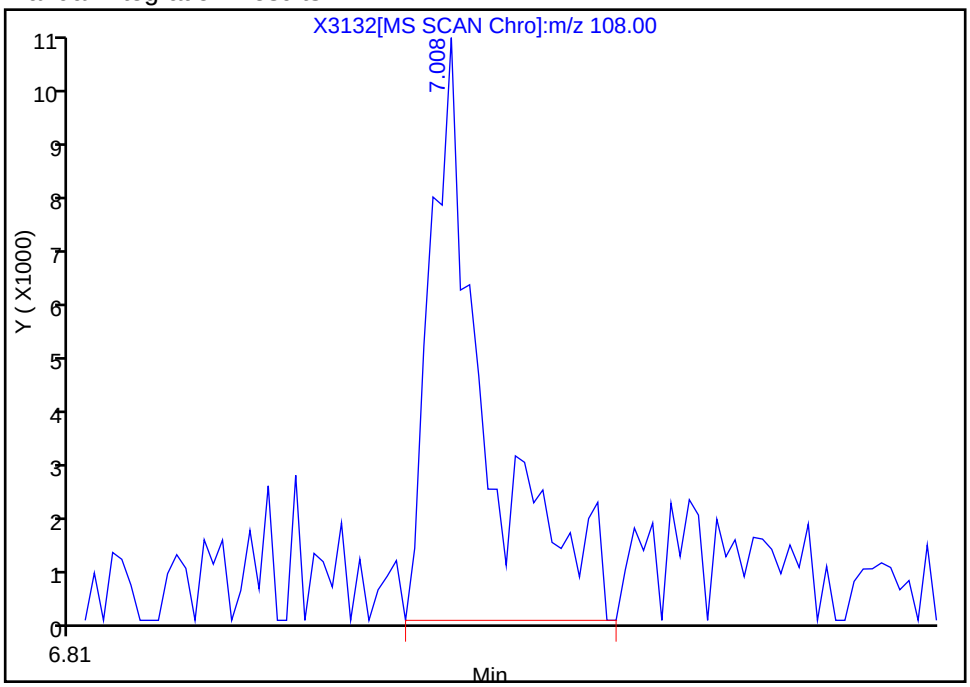
Processing Integration Results

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

Manual Integration/User Assign Peak Report

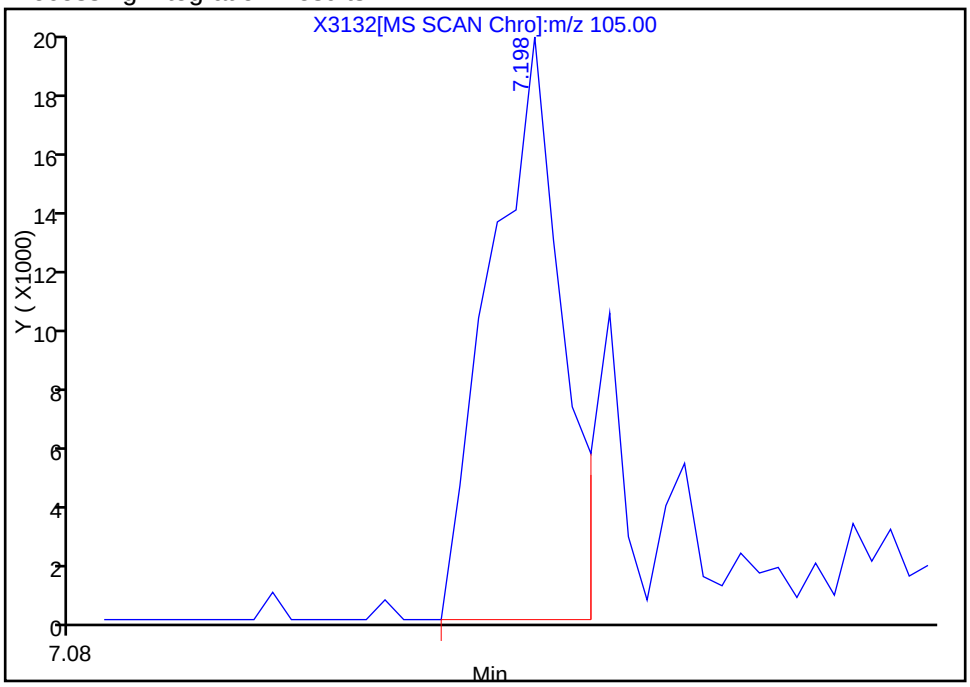
TestAmerica Buffalo

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

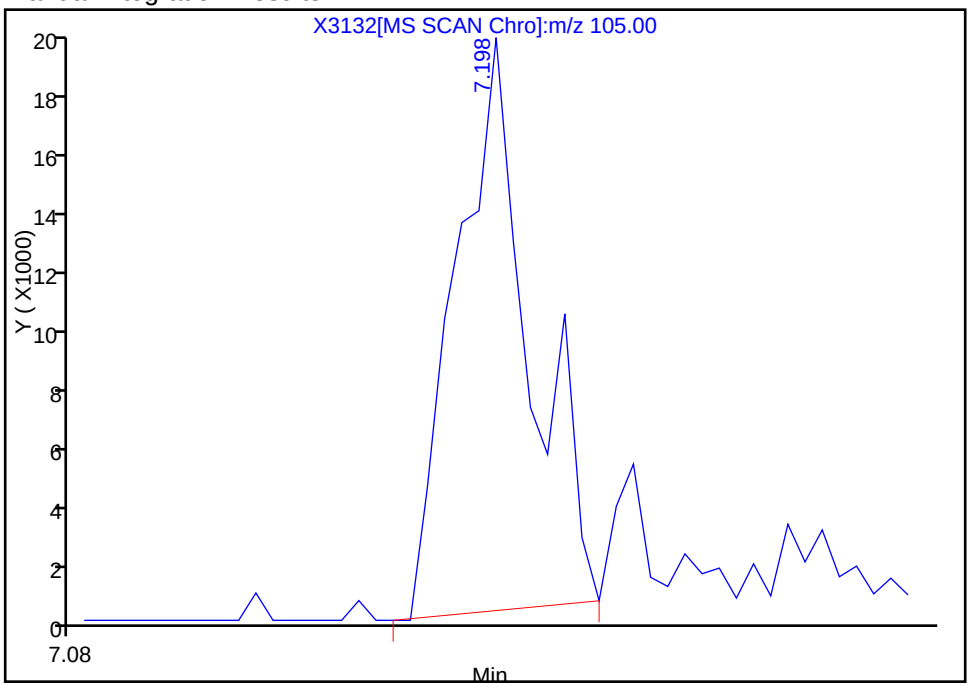
Processing Integration Results

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
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

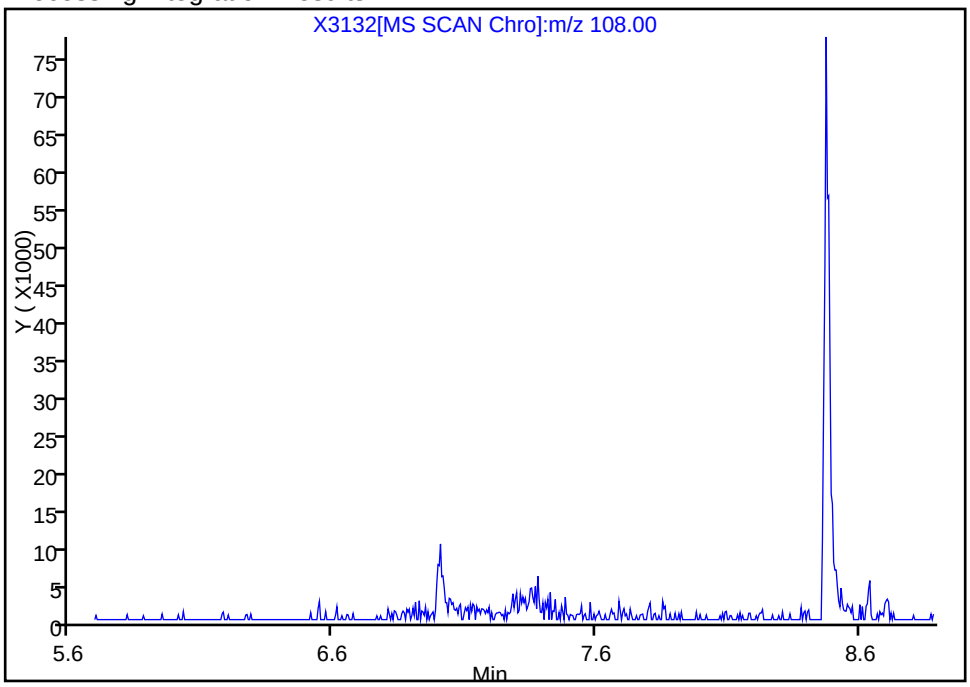
TestAmerica Buffalo

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

36 4-Methylphenol, Signal: 1, m/z: 108.0 Type: quant, RT: 7.29

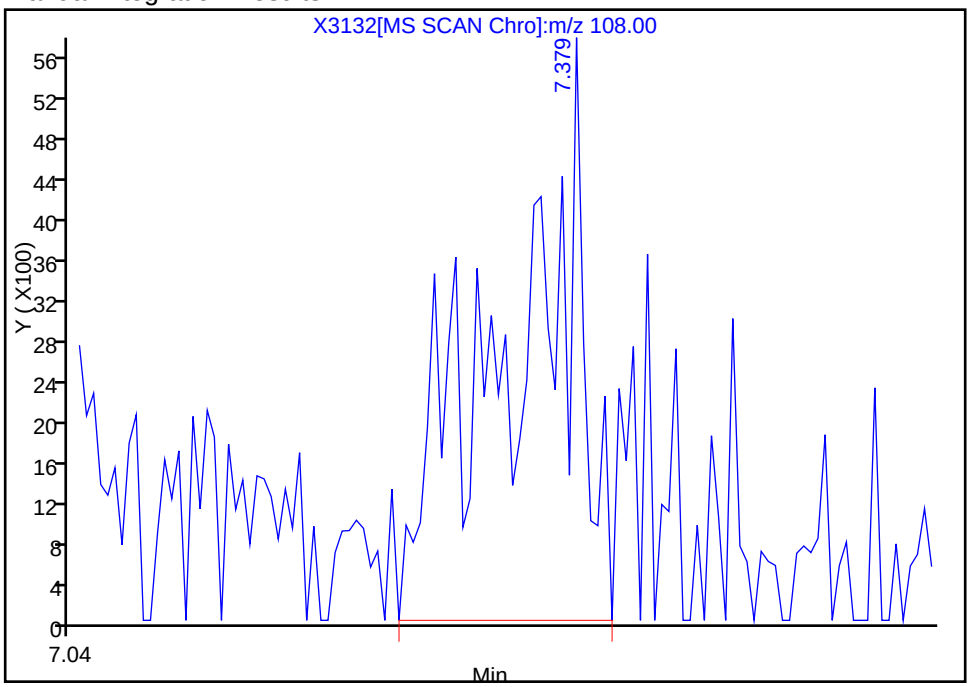
Processing Integration Results

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

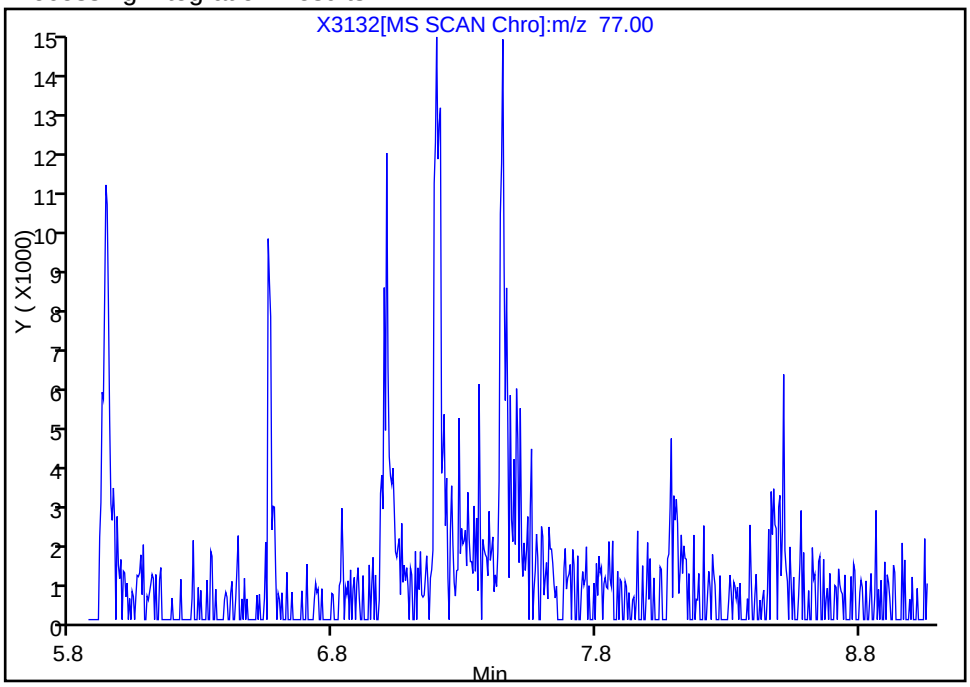
TestAmerica Buffalo

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

38 Nitrobenzene, Signal: 1, m/z: 77.0 Type: quant, RT: 7.46

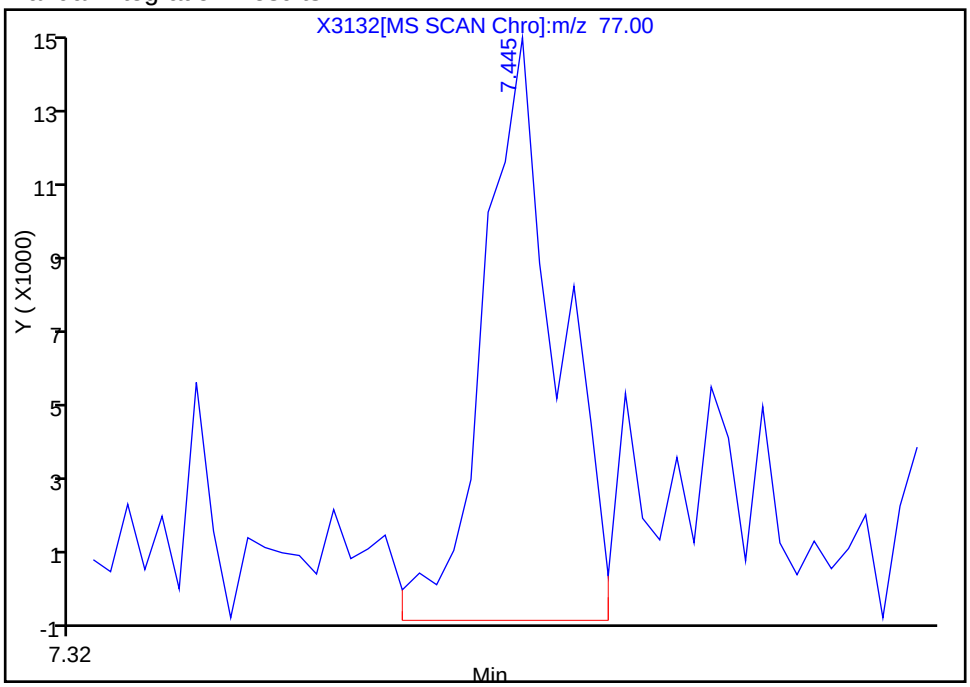
Processing Integration Results

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
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

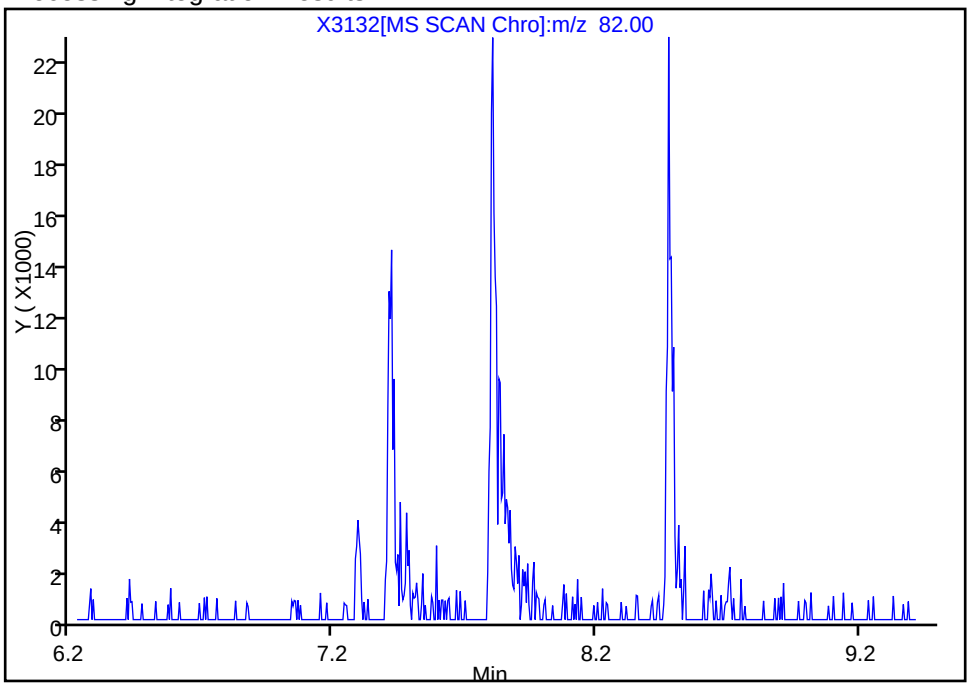
TestAmerica Buffalo

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

40 Isophorone, Signal: 1, m/z: 82.0 Type: quant, RT: 7.82

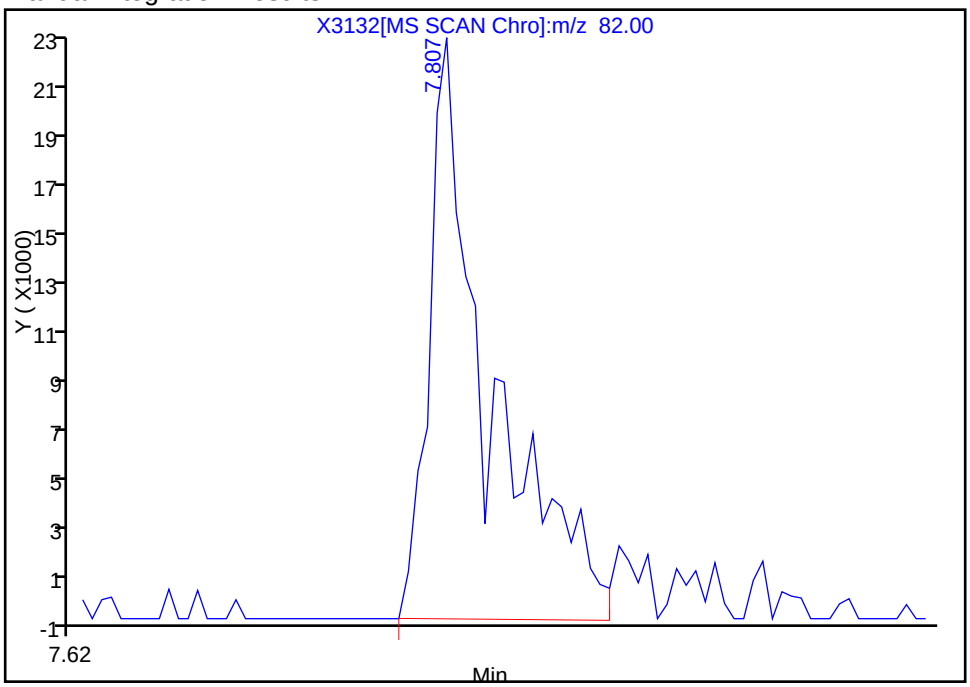
Processing Integration Results

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

Manual Integration/User Assign Peak Report

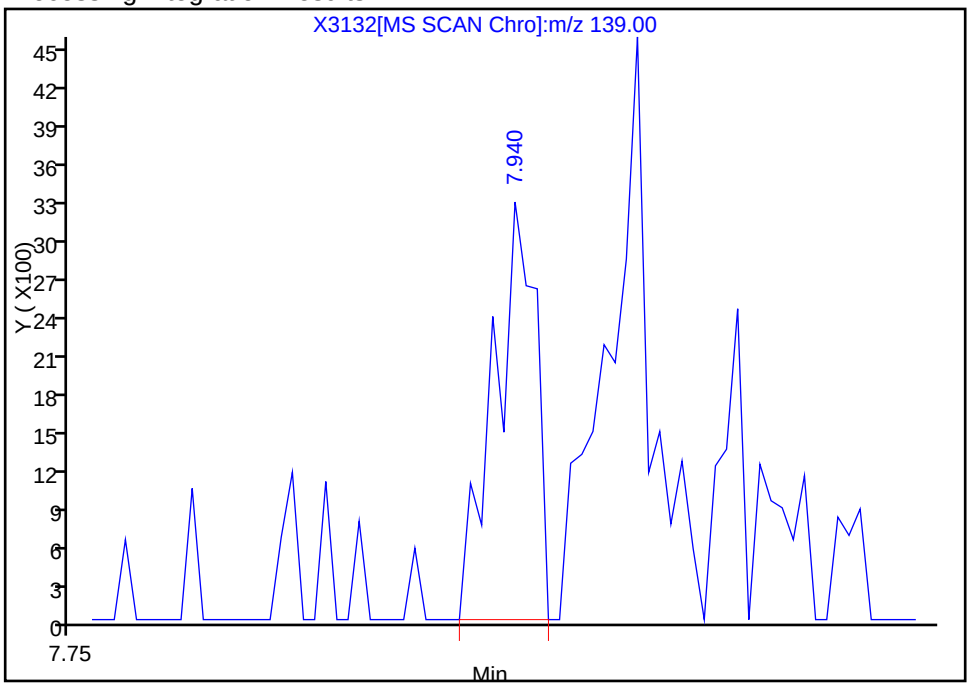
TestAmerica Buffalo

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

41 2-Nitrophenol, Signal: 1, m/z: 139.0 Type: quant, RT: 7.94

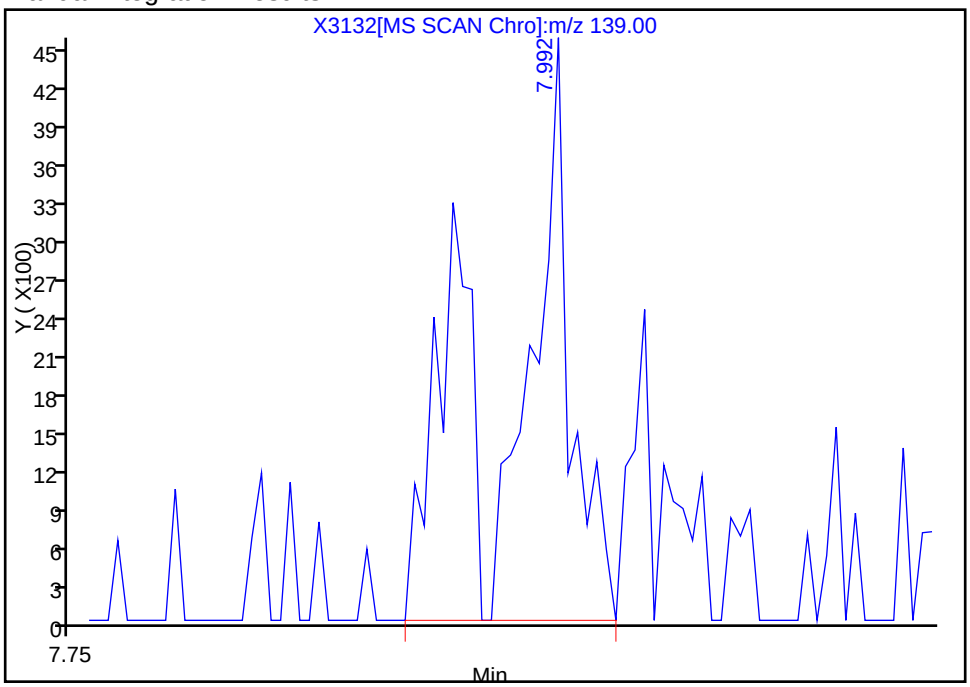
Processing Integration Results

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

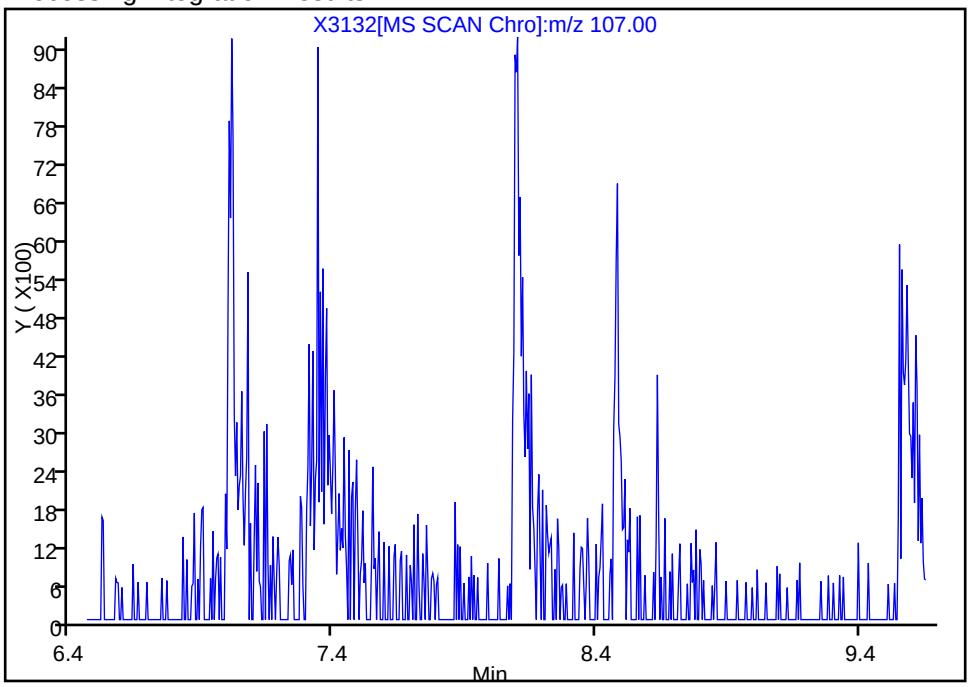
TestAmerica Buffalo

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

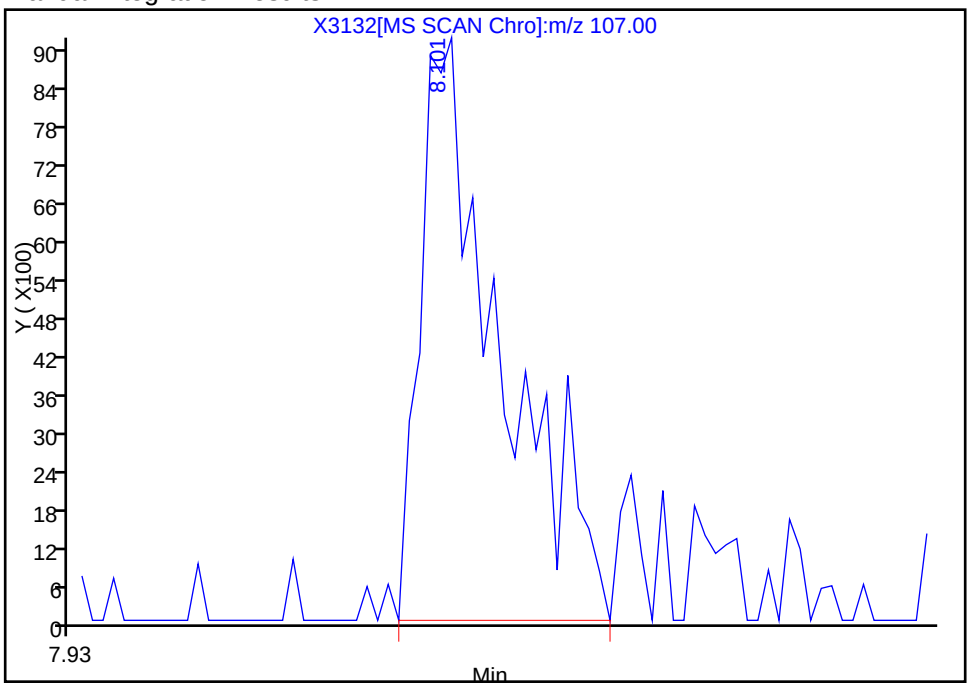
Processing Integration Results

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

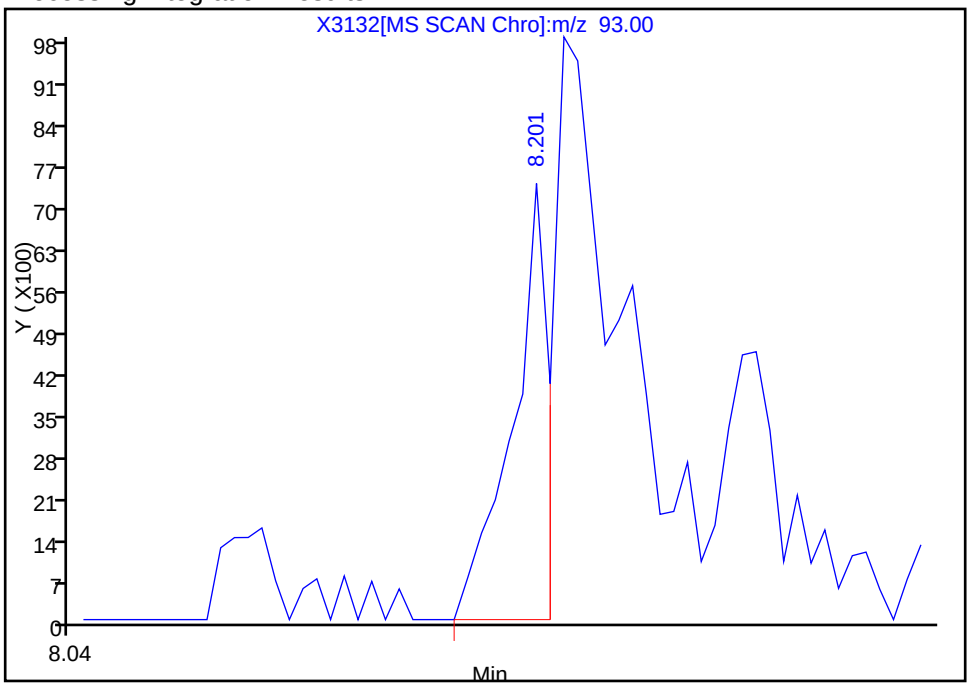
TestAmerica Buffalo

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

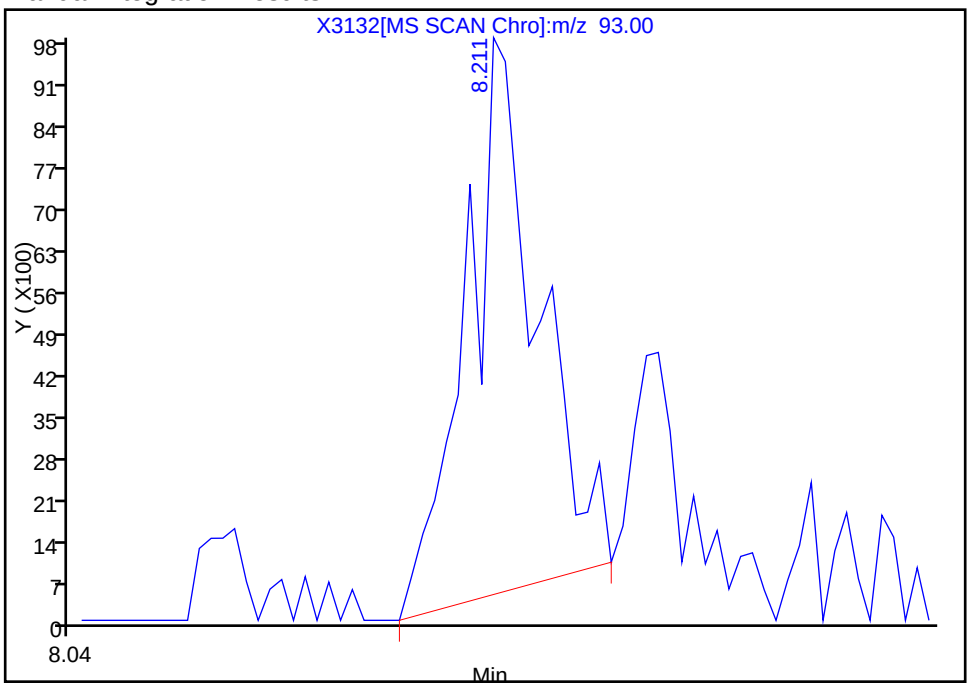
Processing Integration Results

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

Manual Integration/User Assign Peak Report

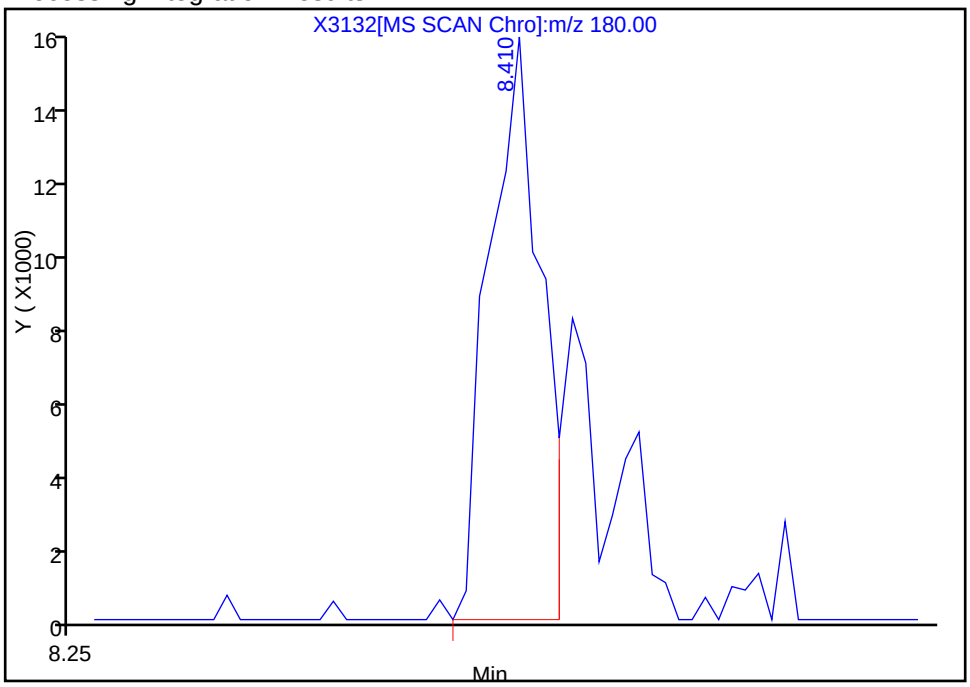
TestAmerica Buffalo

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

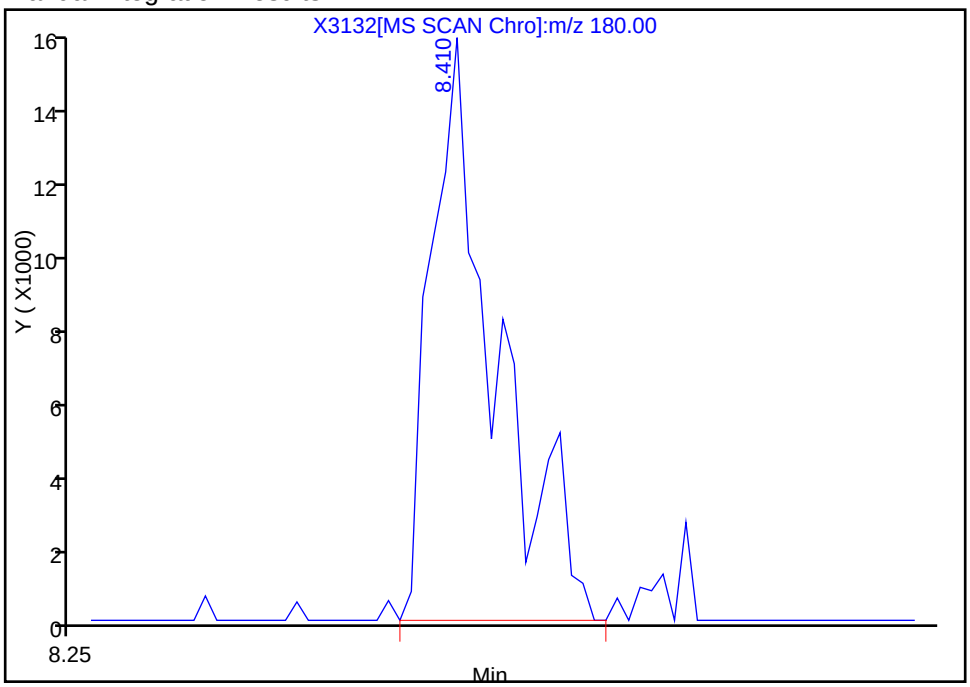
Processing Integration Results

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

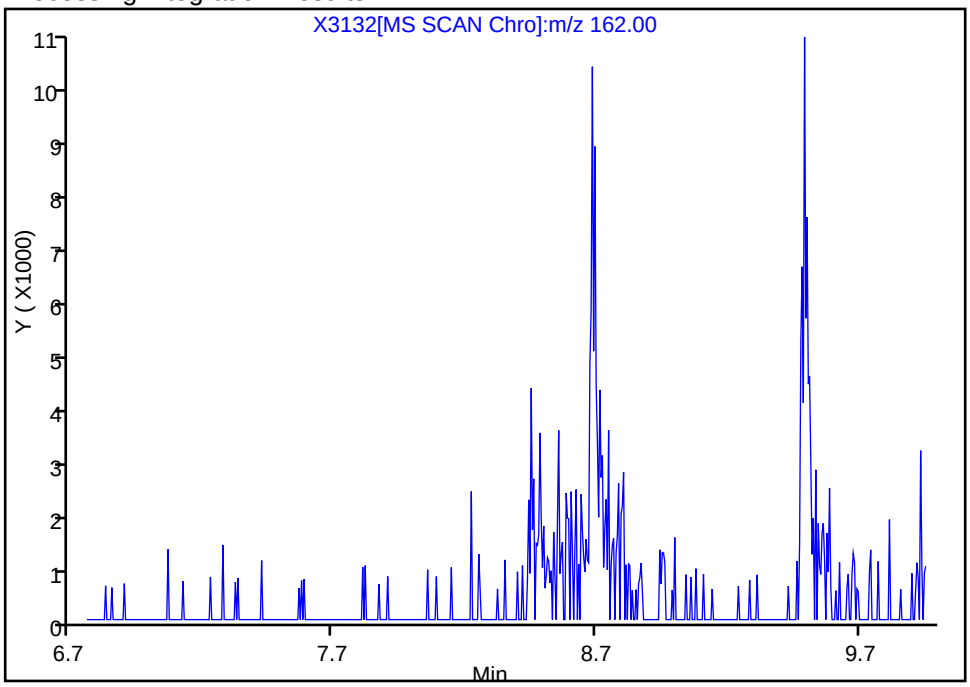
TestAmerica Buffalo

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

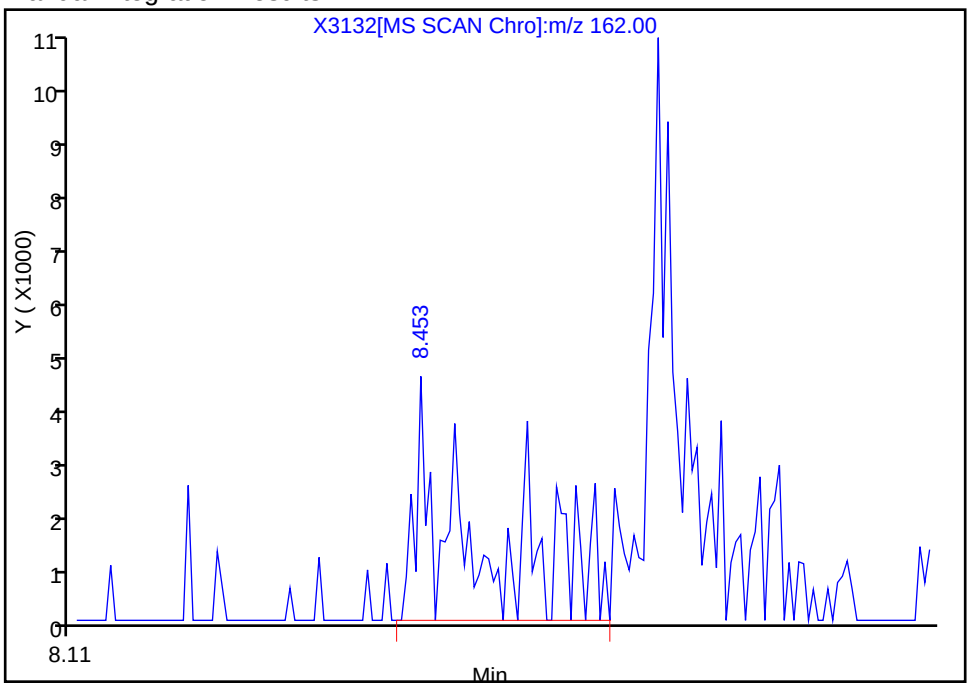
Processing Integration Results

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

Manual Integration/User Assign Peak Report

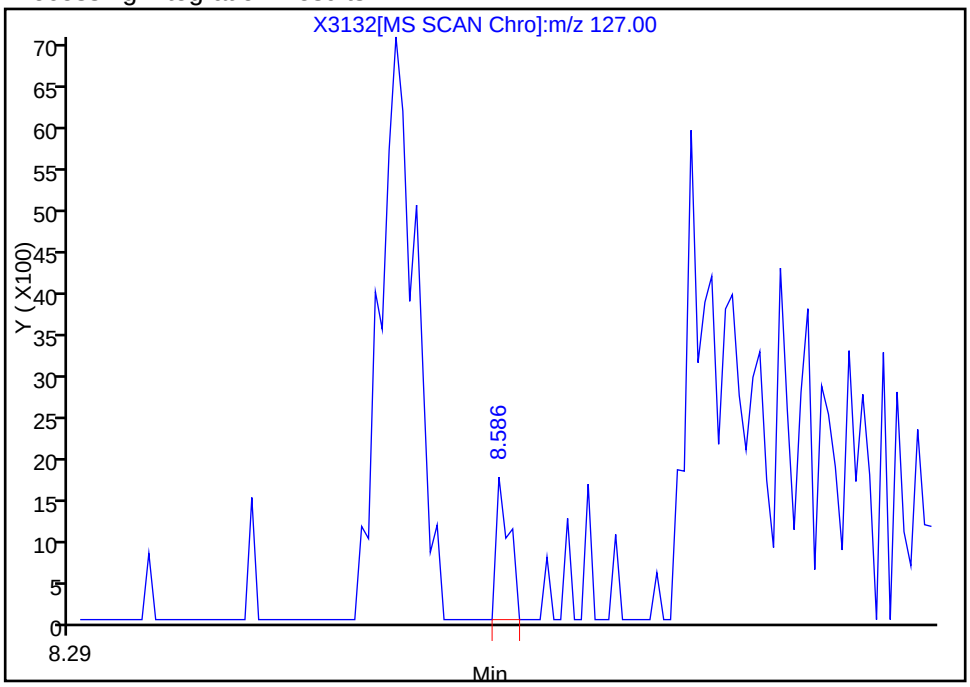
TestAmerica Buffalo

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

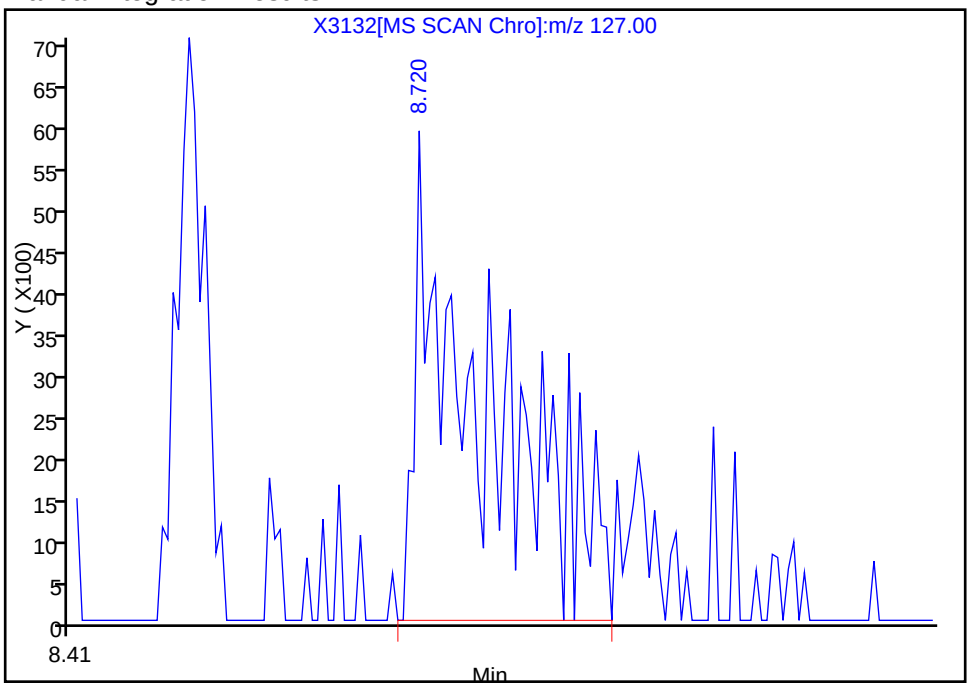
Processing Integration Results

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

Manual Integration/User Assign Peak Report

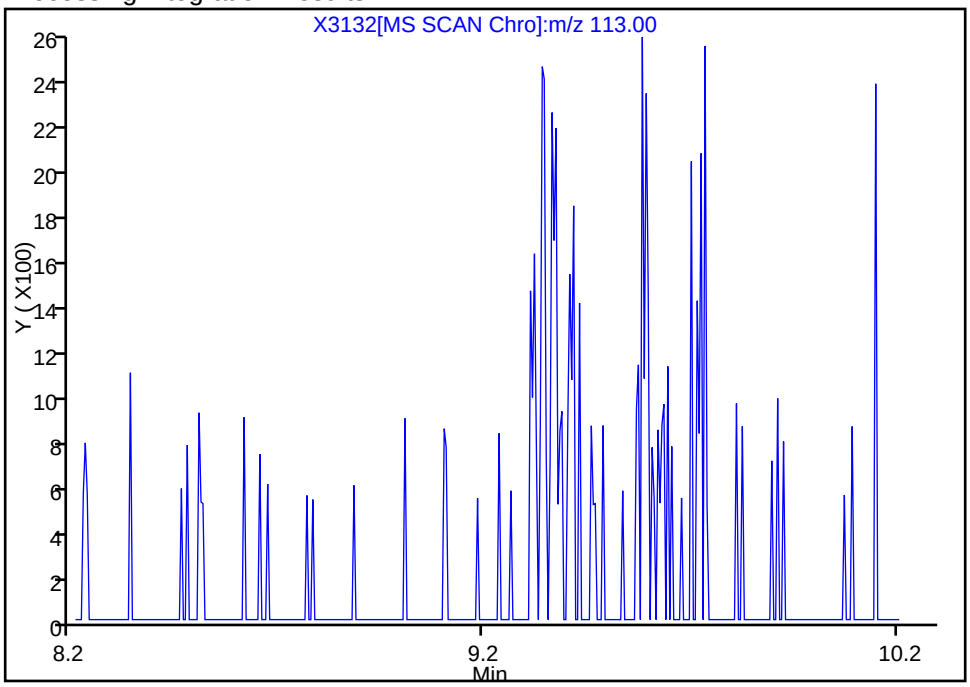
TestAmerica Buffalo

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

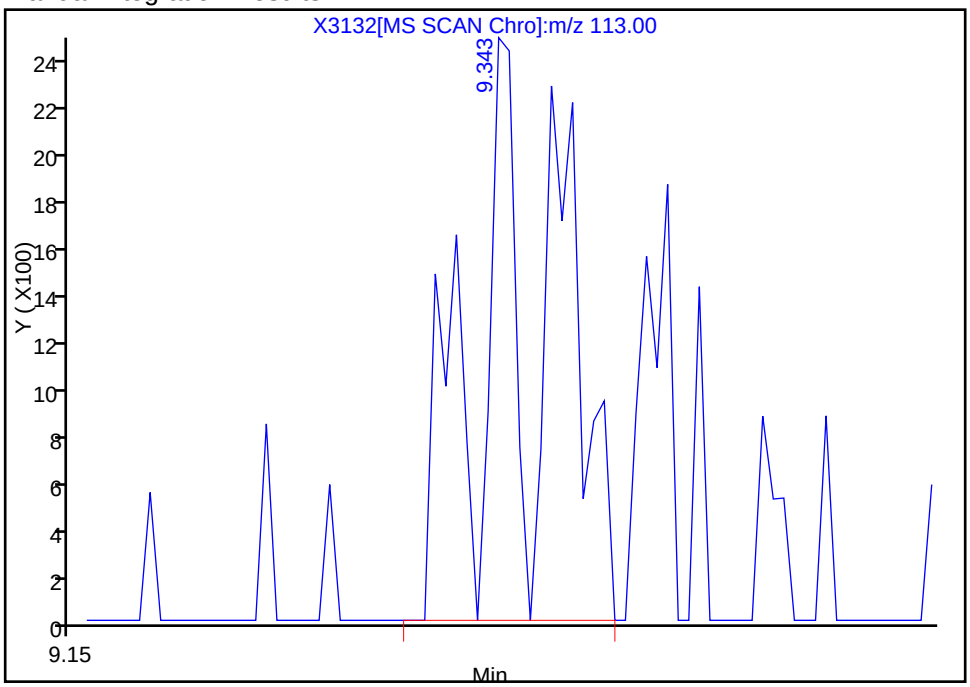
Processing Integration Results

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

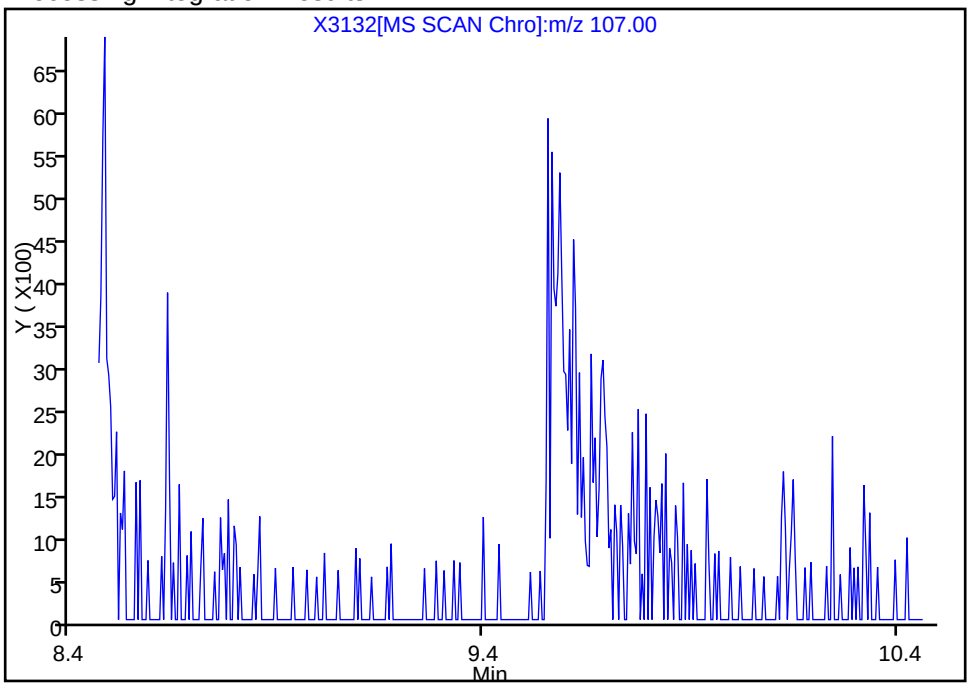
TestAmerica Buffalo

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

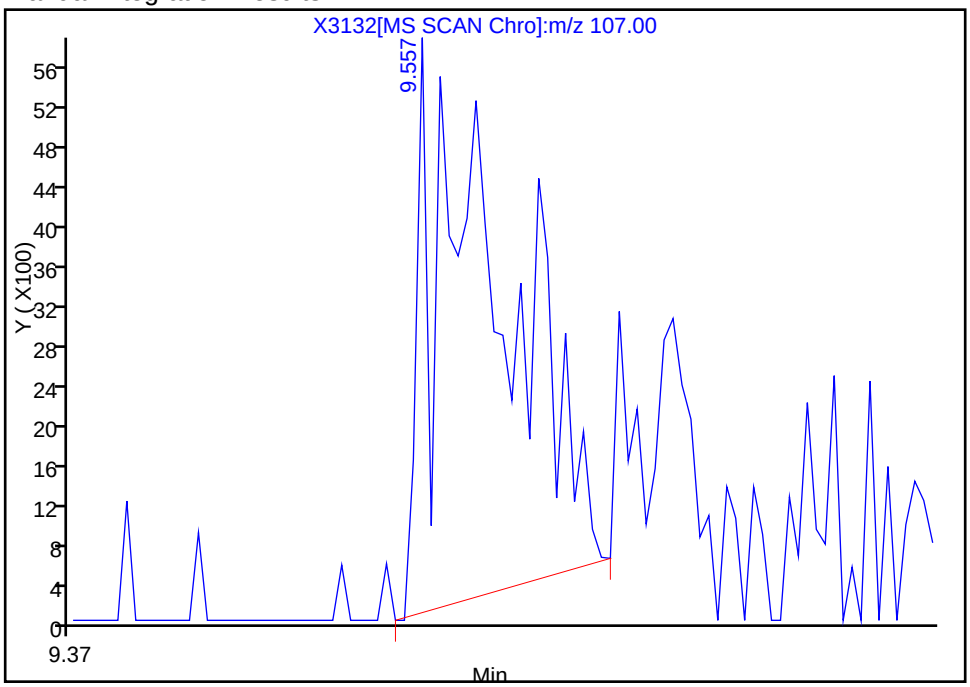
Processing Integration Results

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

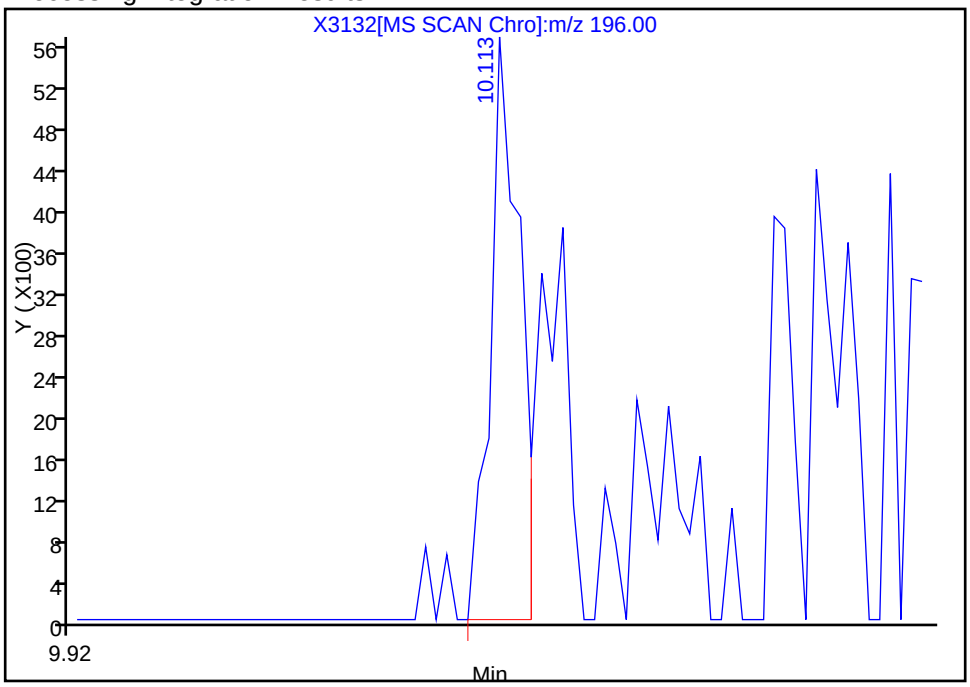
TestAmerica Buffalo

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

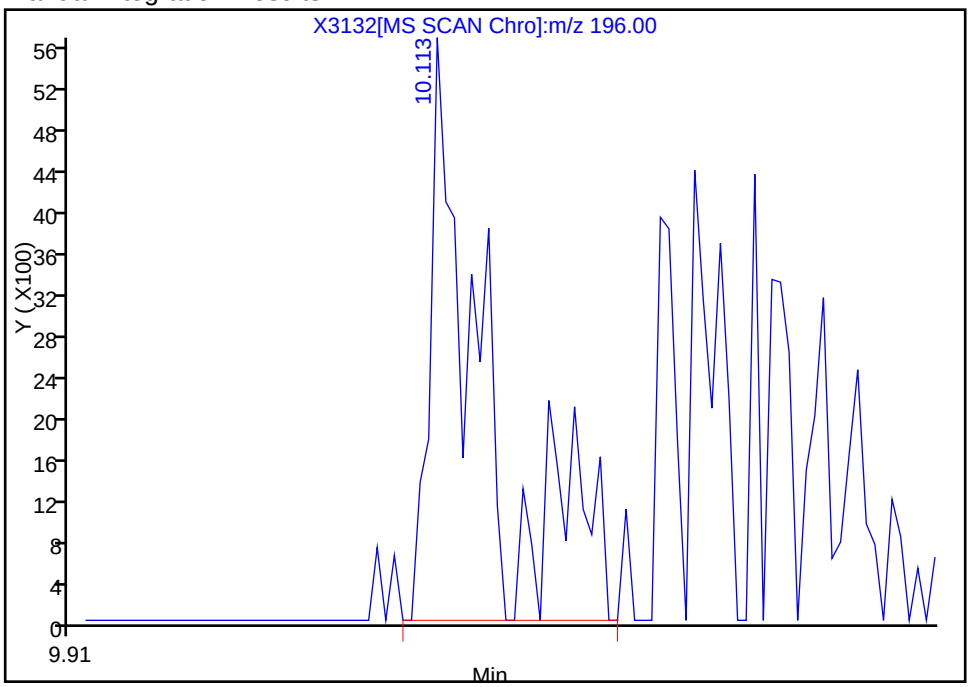
Processing Integration Results

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

Report Date: 18-Dec-2012 16:42:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

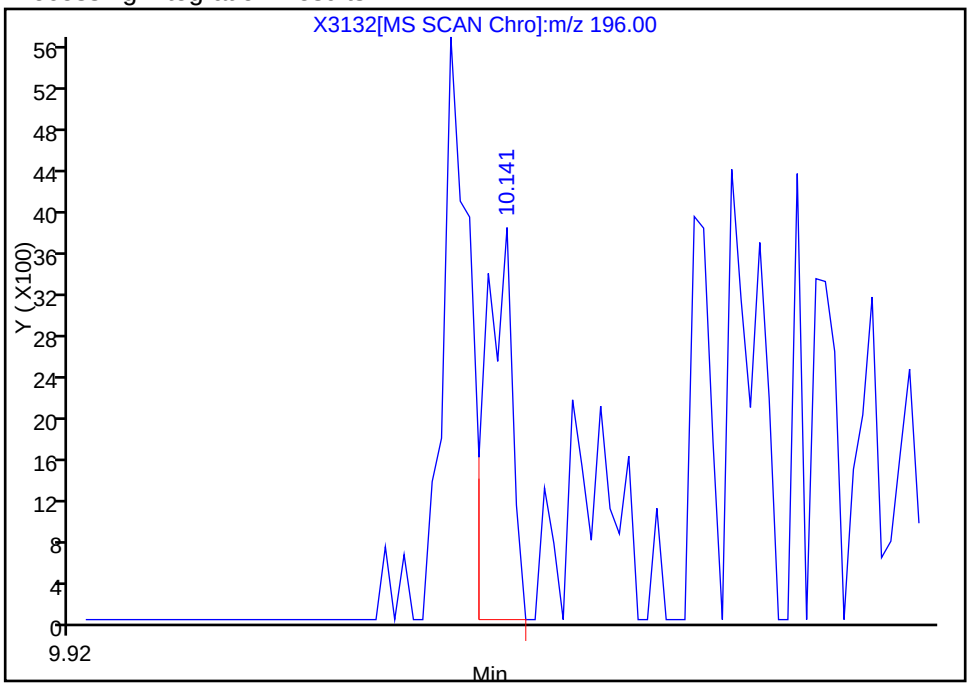
TestAmerica Buffalo

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

61 2,4,5-Trichlorophenol, Signal: 1, m/z: 196.0 Type: quant, RT: 10.15

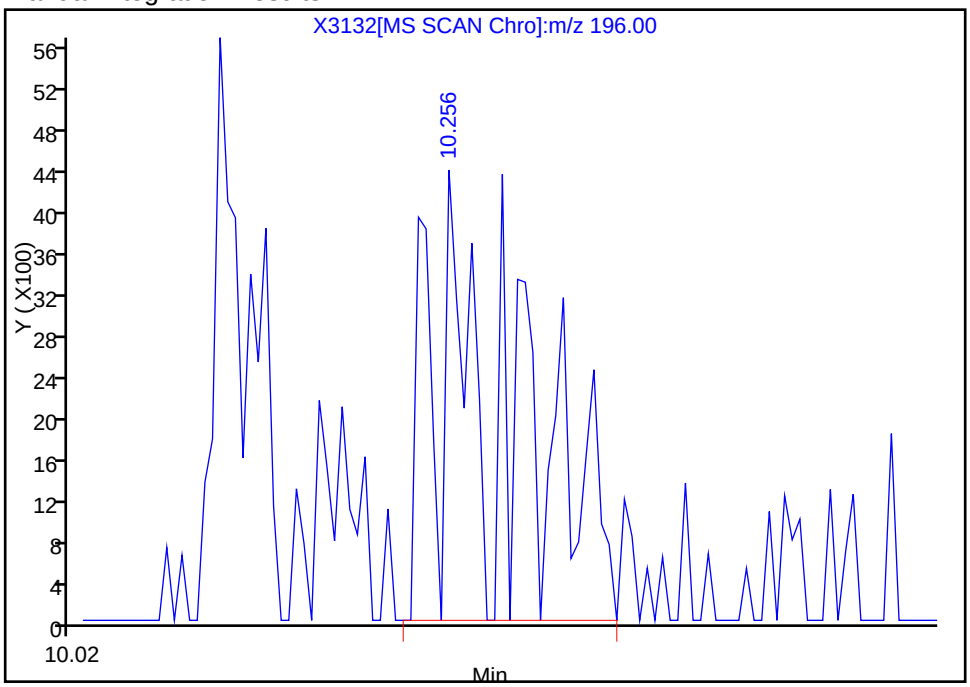
Processing Integration Results

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

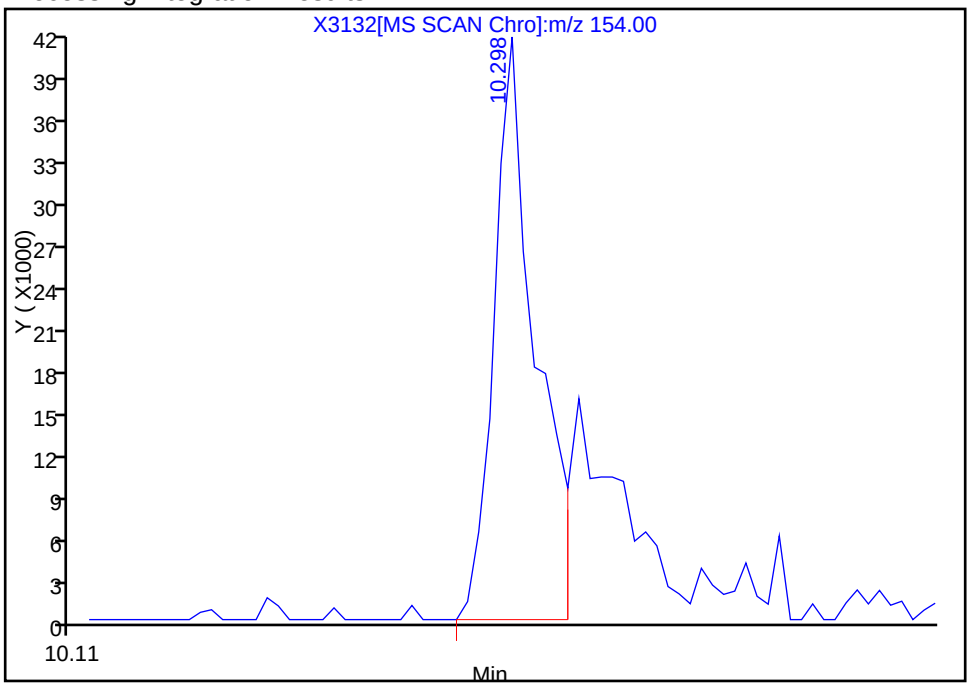
TestAmerica Buffalo

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

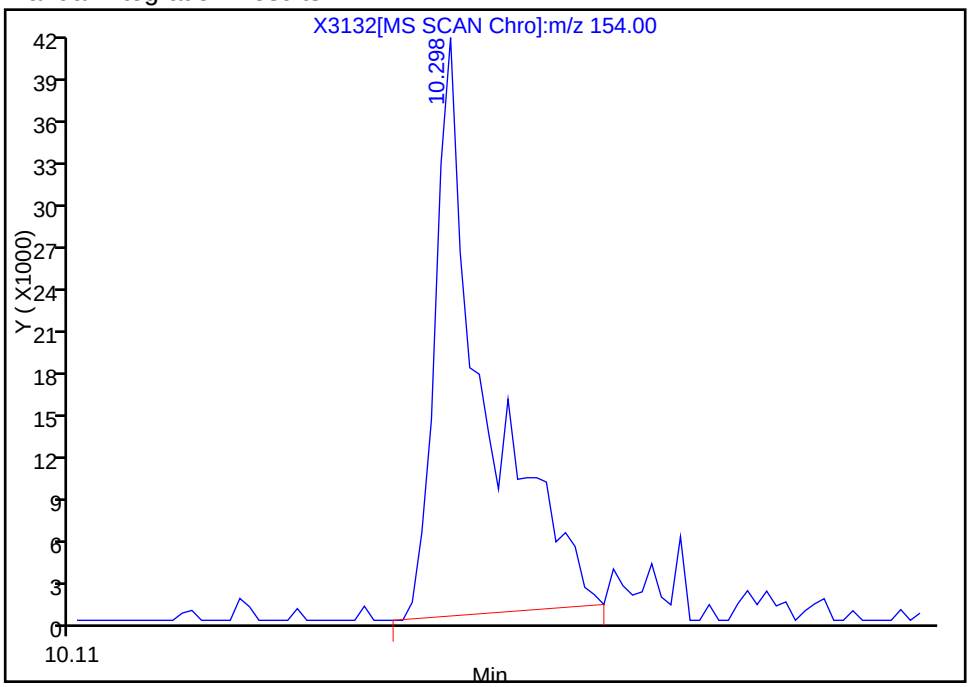
Processing Integration Results

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

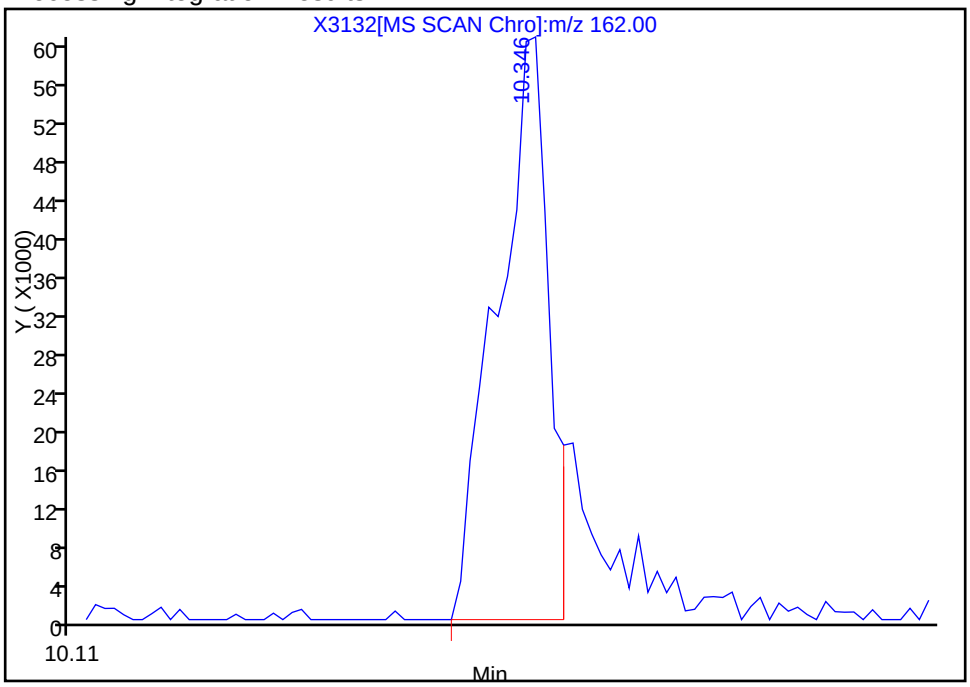
TestAmerica Buffalo

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

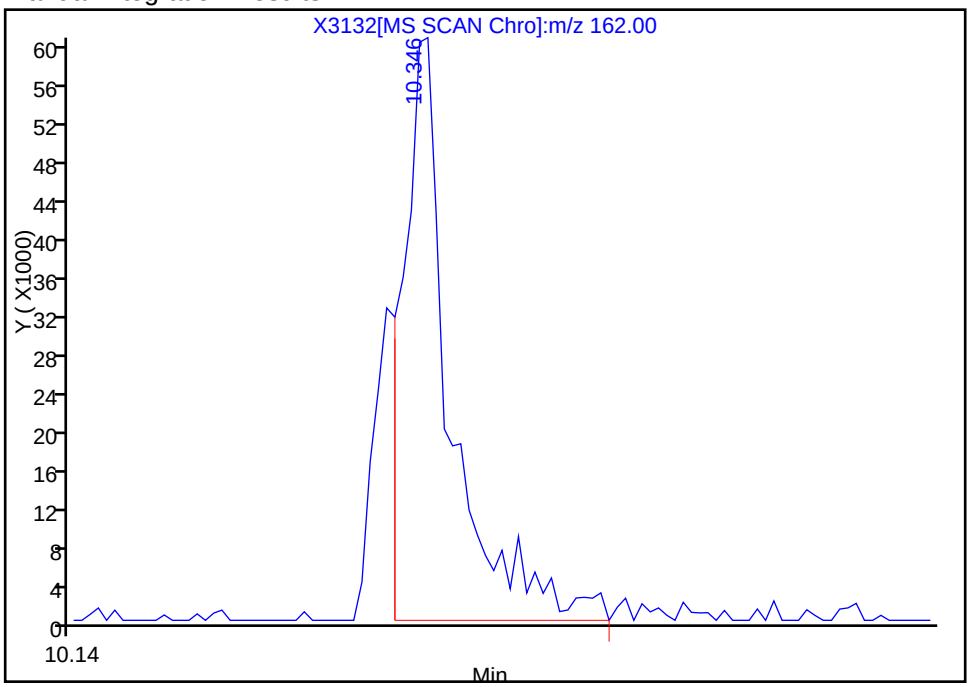
Processing Integration Results

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

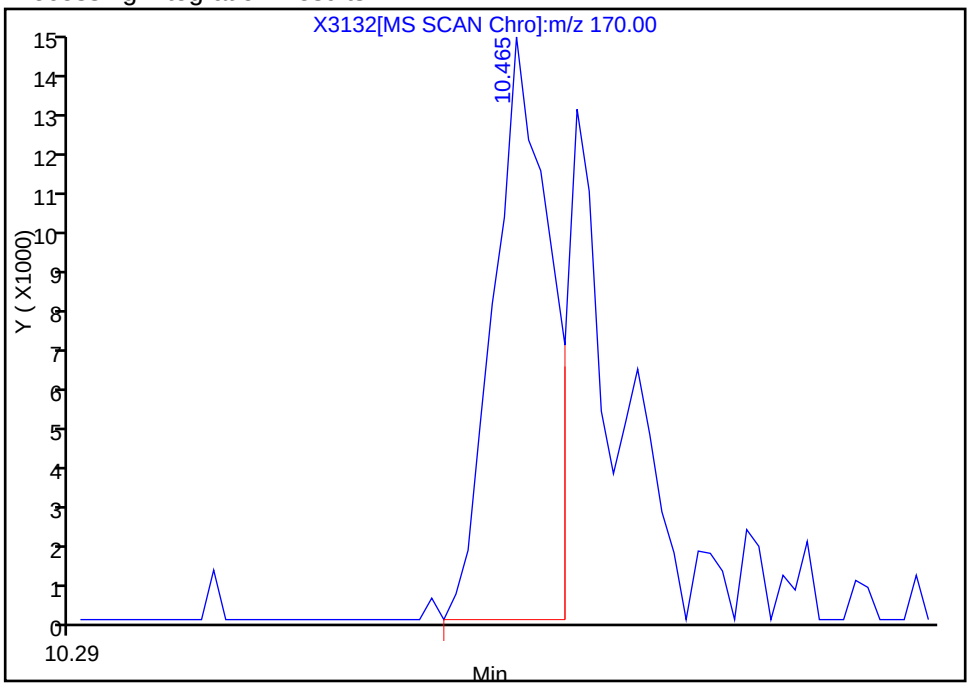
TestAmerica Buffalo

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

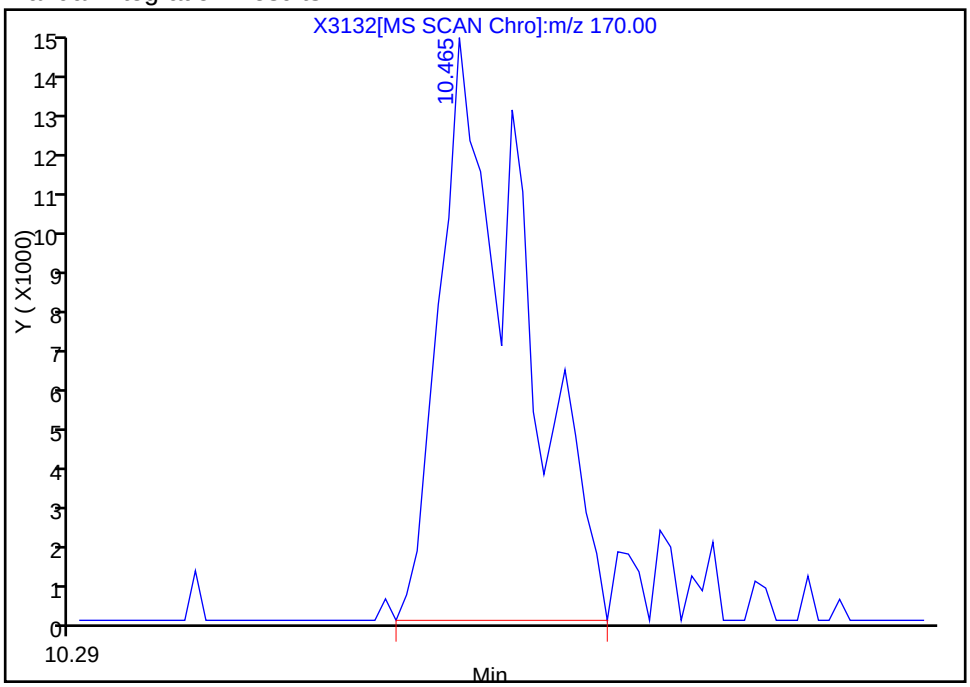
Processing Integration Results

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
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

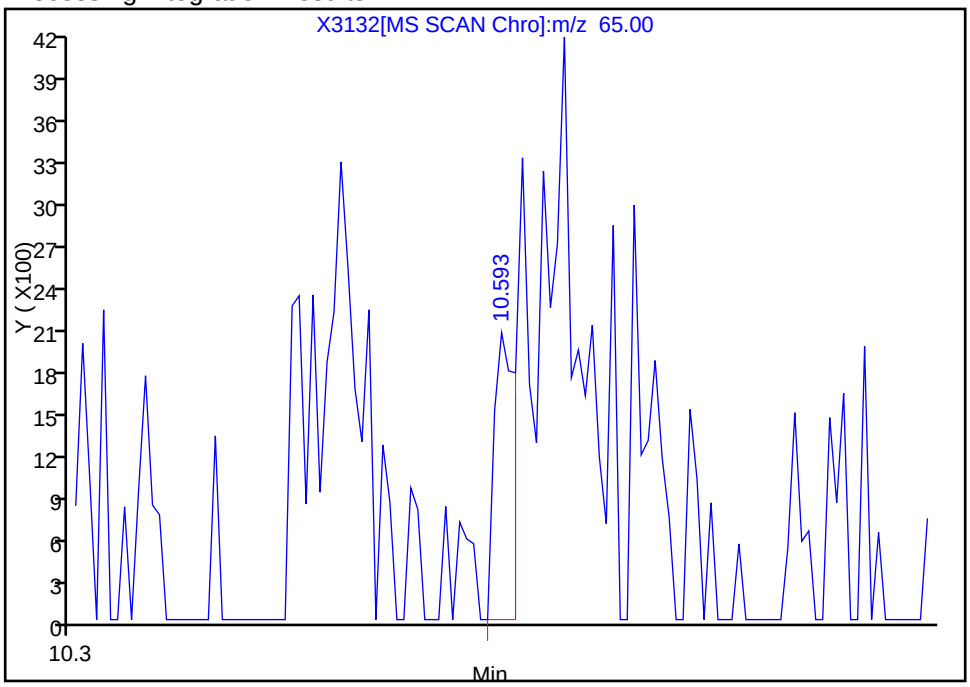
TestAmerica Buffalo

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

65 2-Nitroaniline, Signal: 1, m/z: 65.0 Type: quant, RT: 10.51

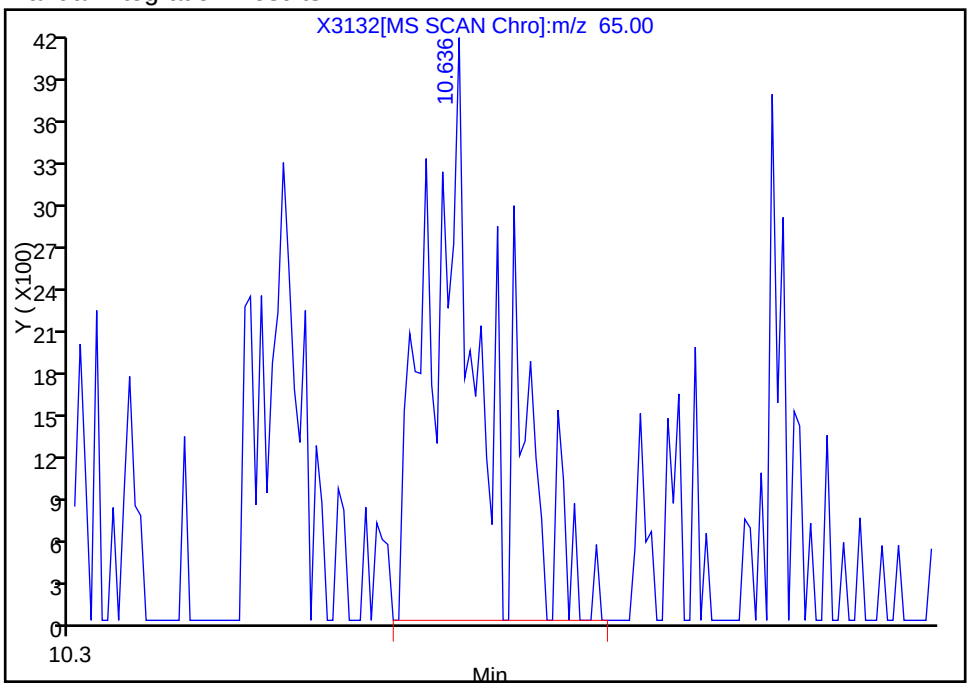
Processing Integration Results

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
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

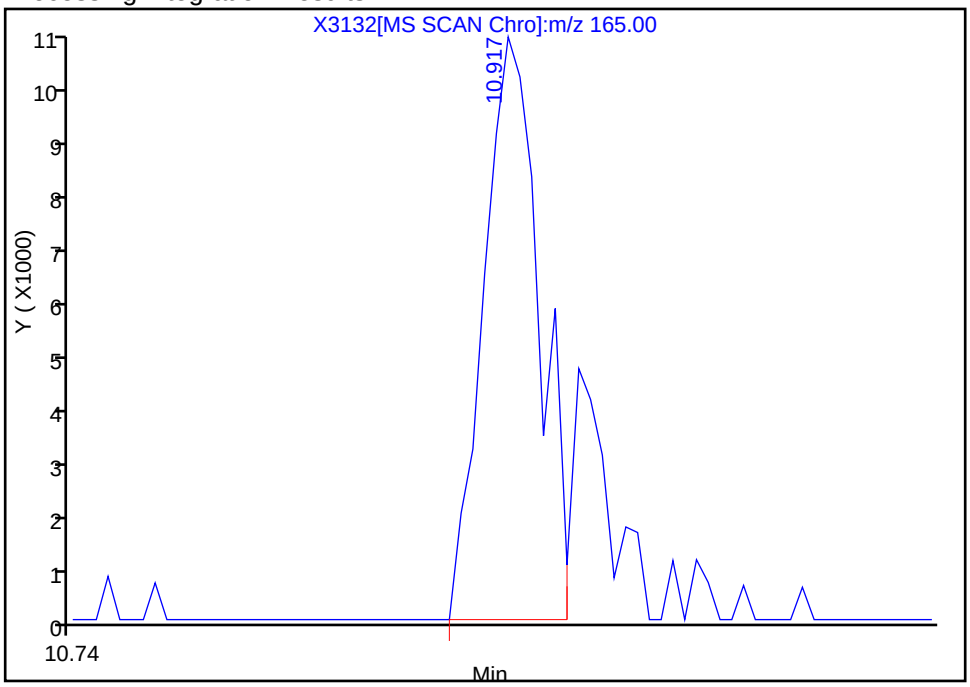
TestAmerica Buffalo

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

68 2,6-Dinitrotoluene, Signal: 1, m/z: 165.0 Type: quant, RT: 10.86

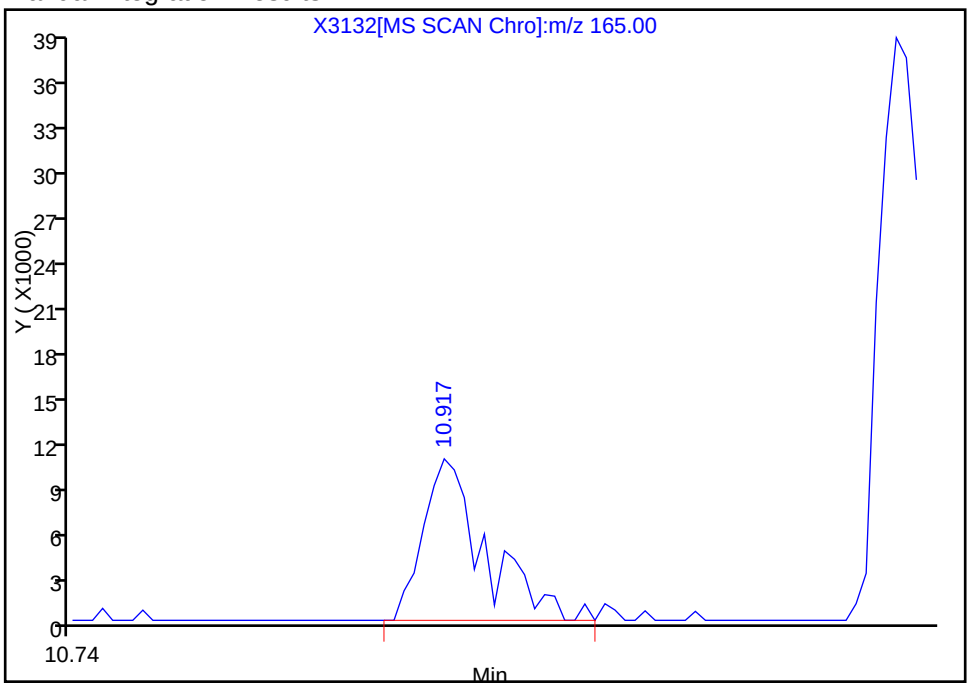
Processing Integration Results

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

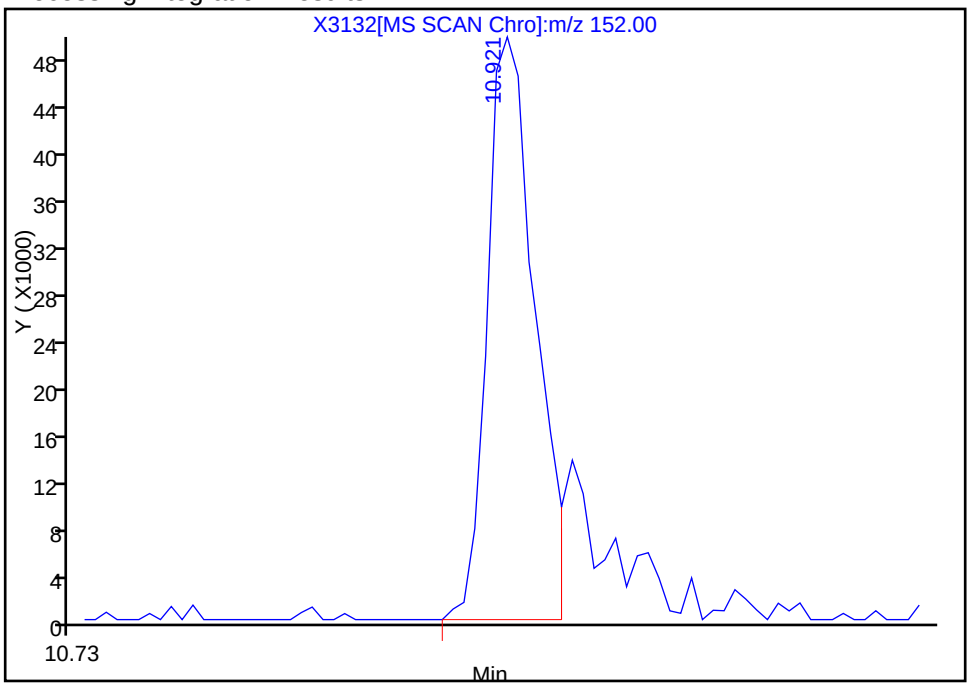
TestAmerica Buffalo

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

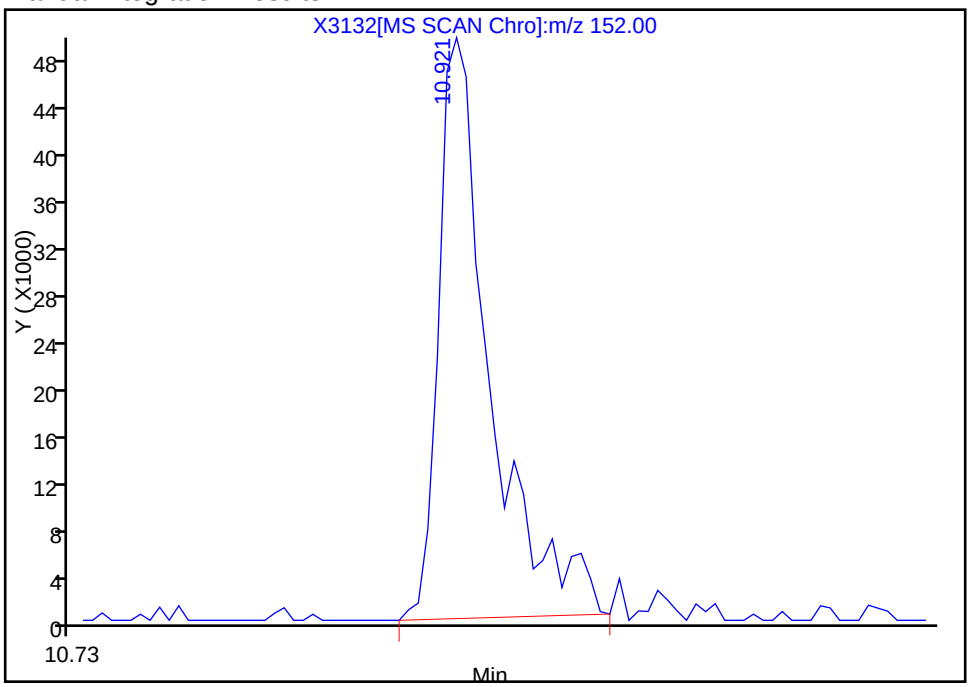
Processing Integration Results

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

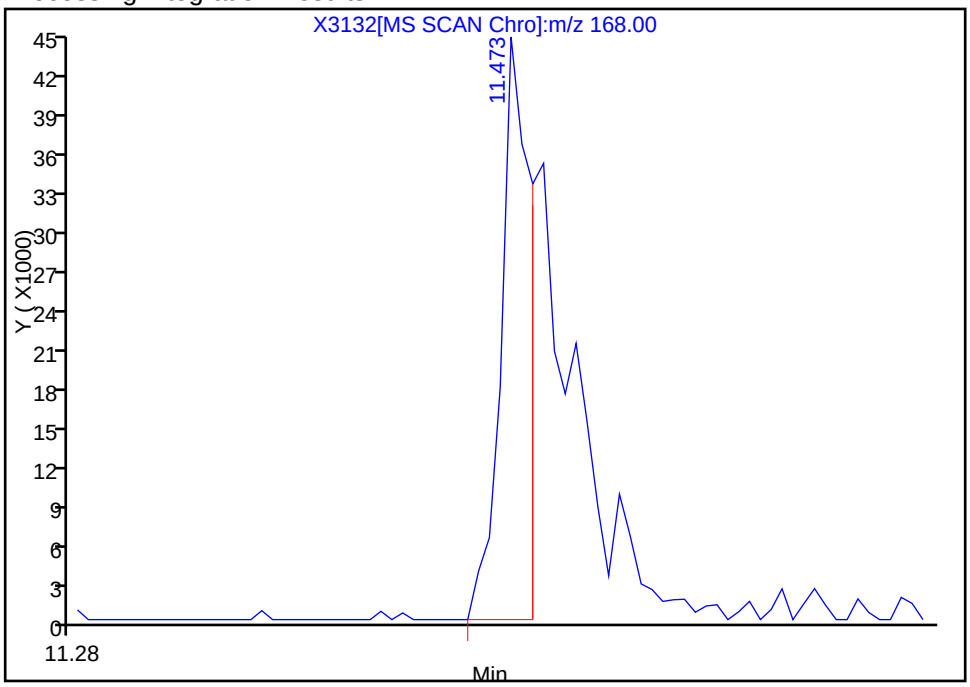
TestAmerica Buffalo

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

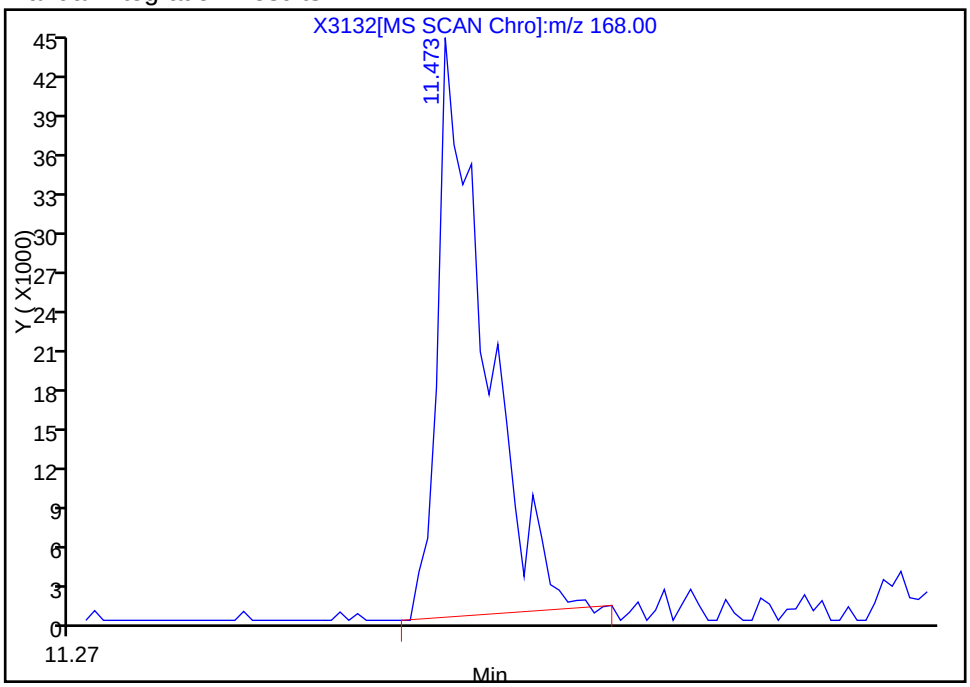
Processing Integration Results

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

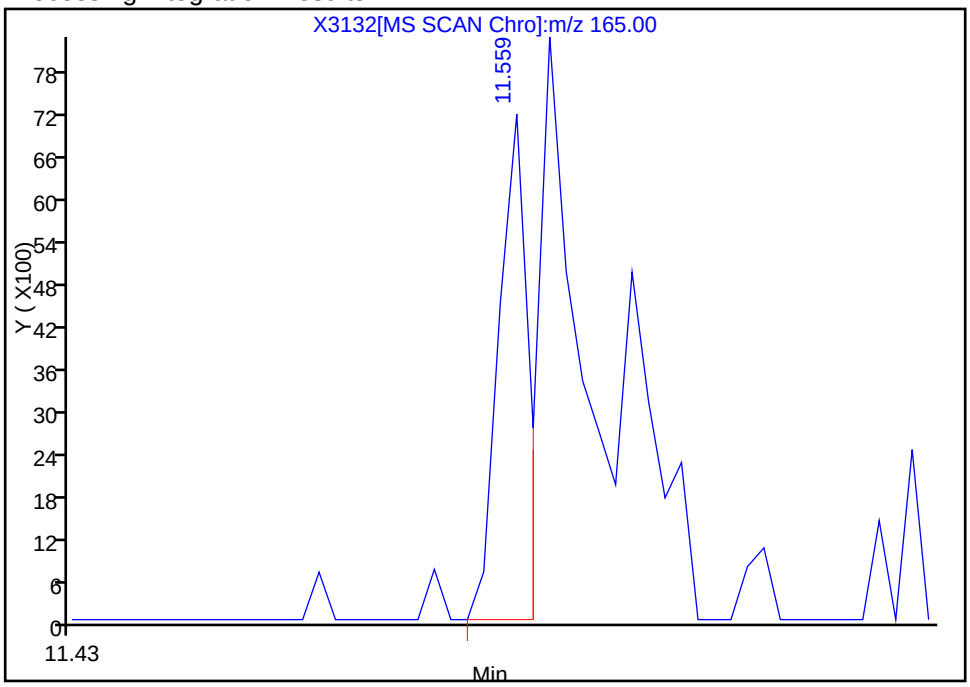
TestAmerica Buffalo

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

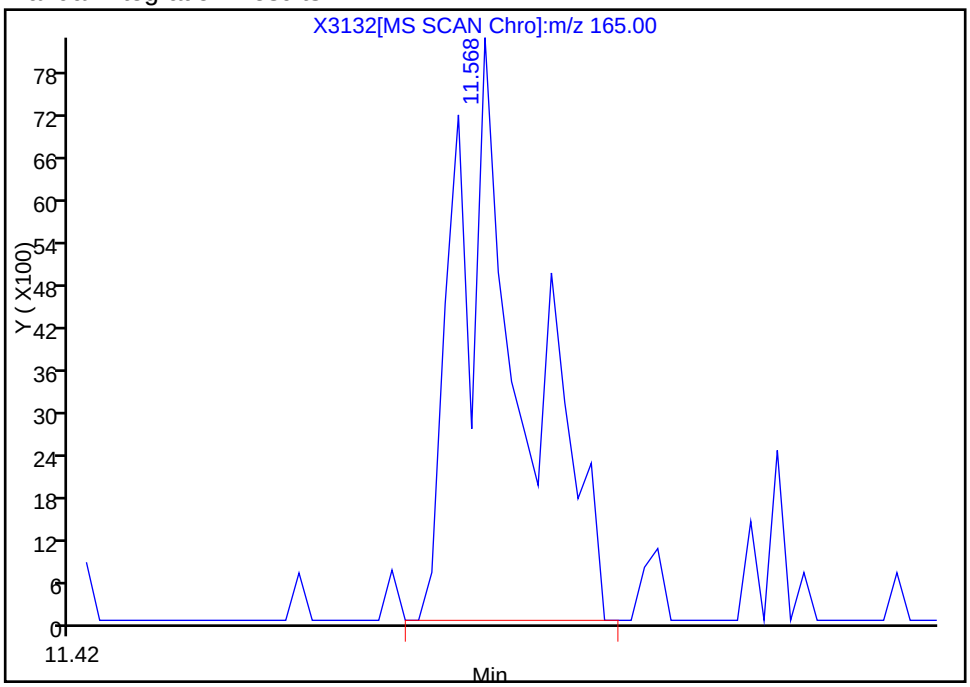
Processing Integration Results

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

Manual Integration/User Assign Peak Report

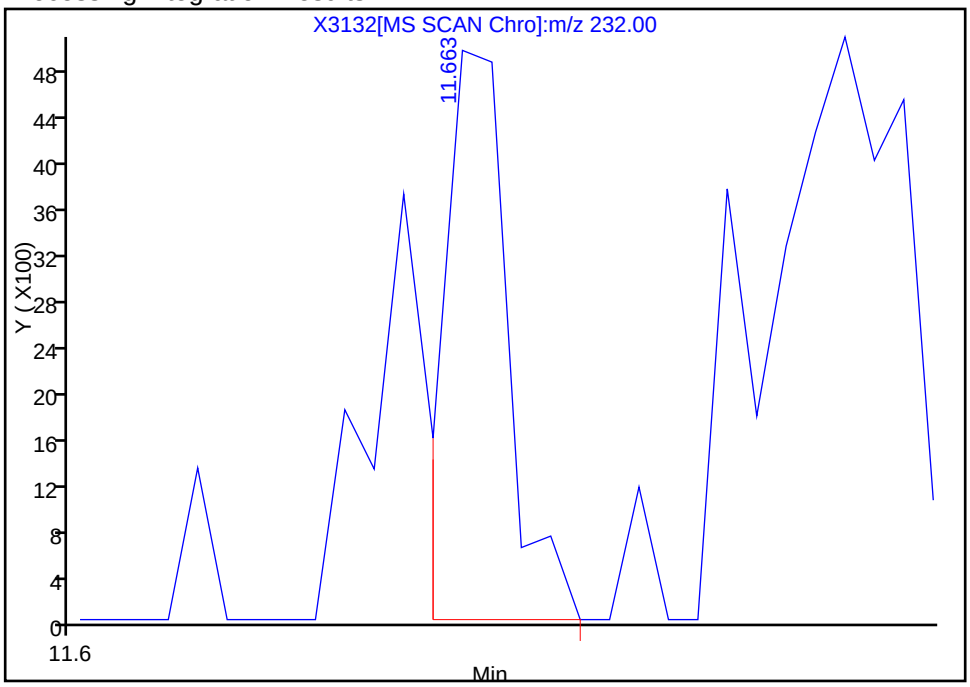
TestAmerica Buffalo

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

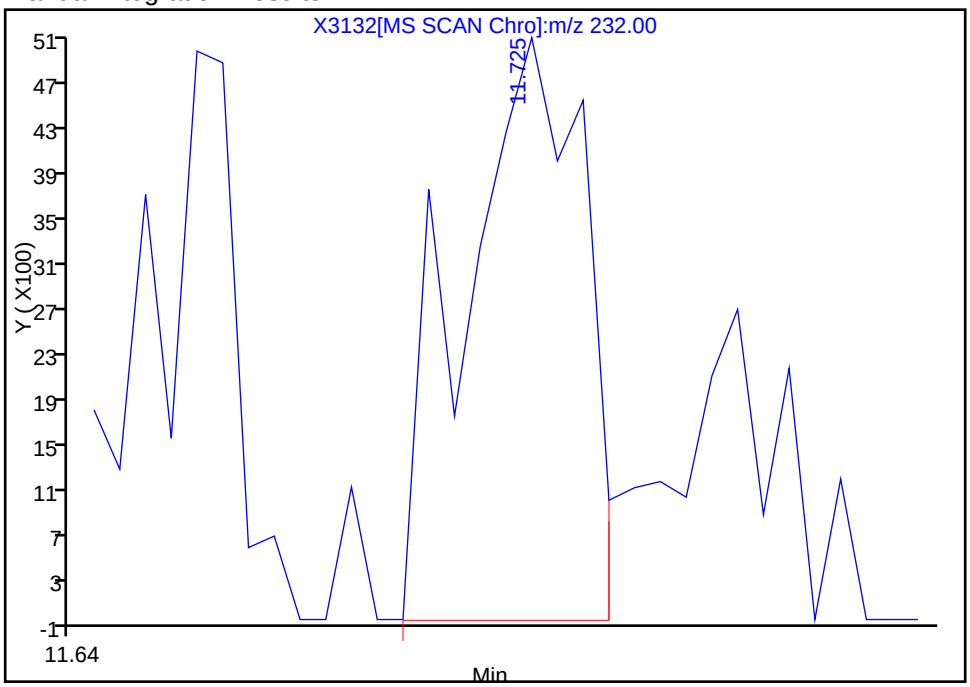
Processing Integration Results

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

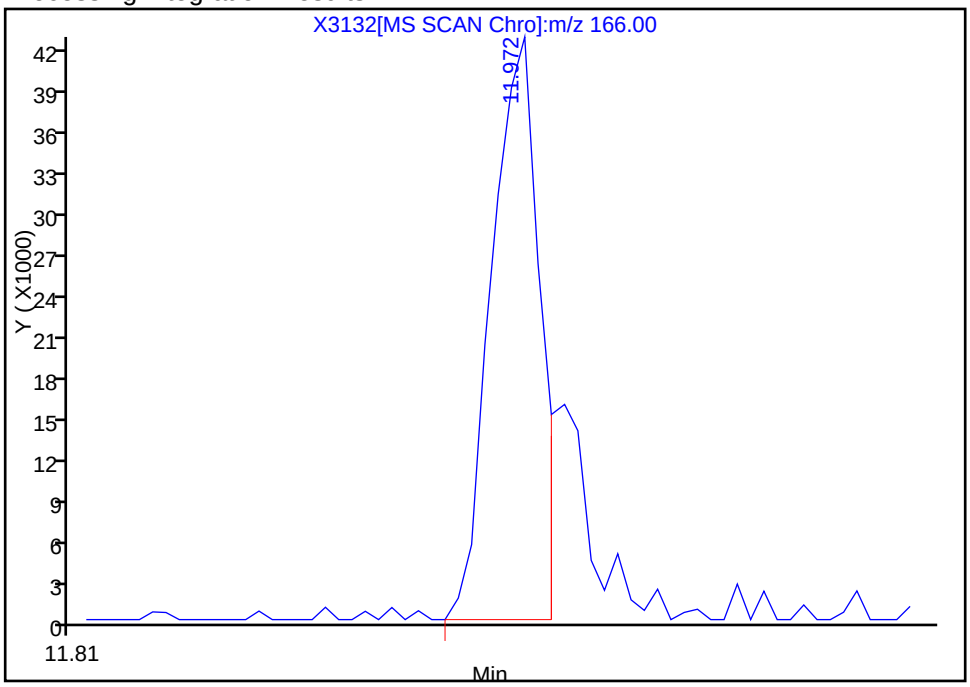
TestAmerica Buffalo

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

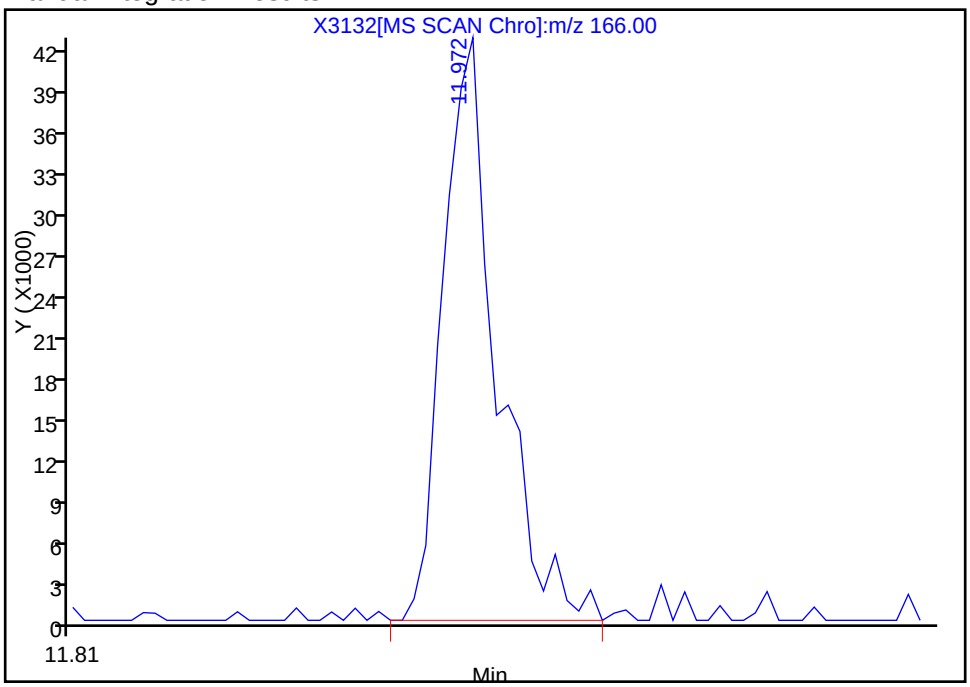
Processing Integration Results

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

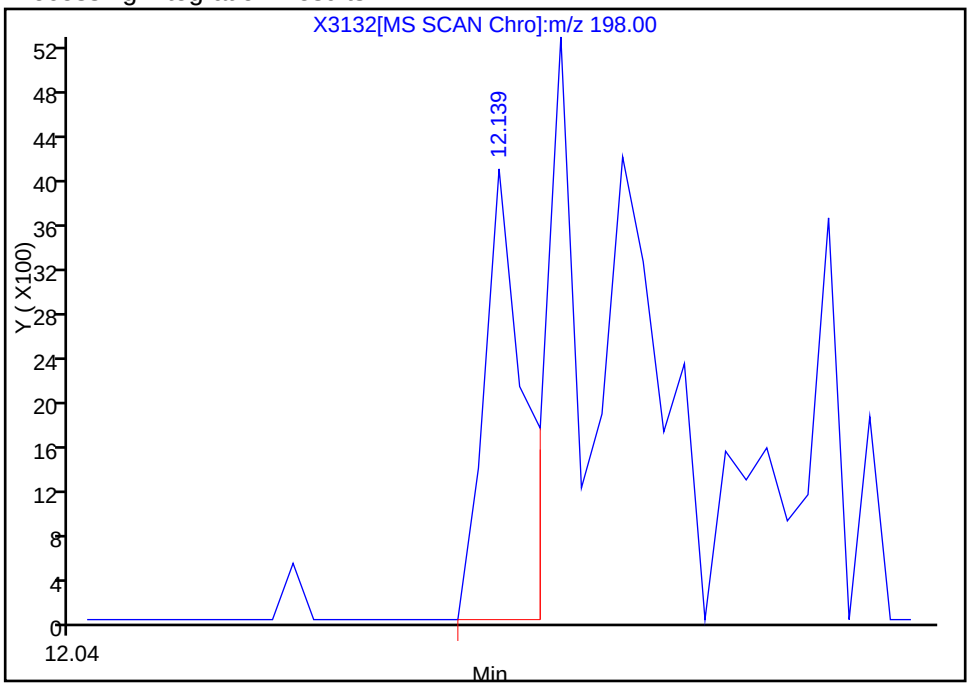
TestAmerica Buffalo

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

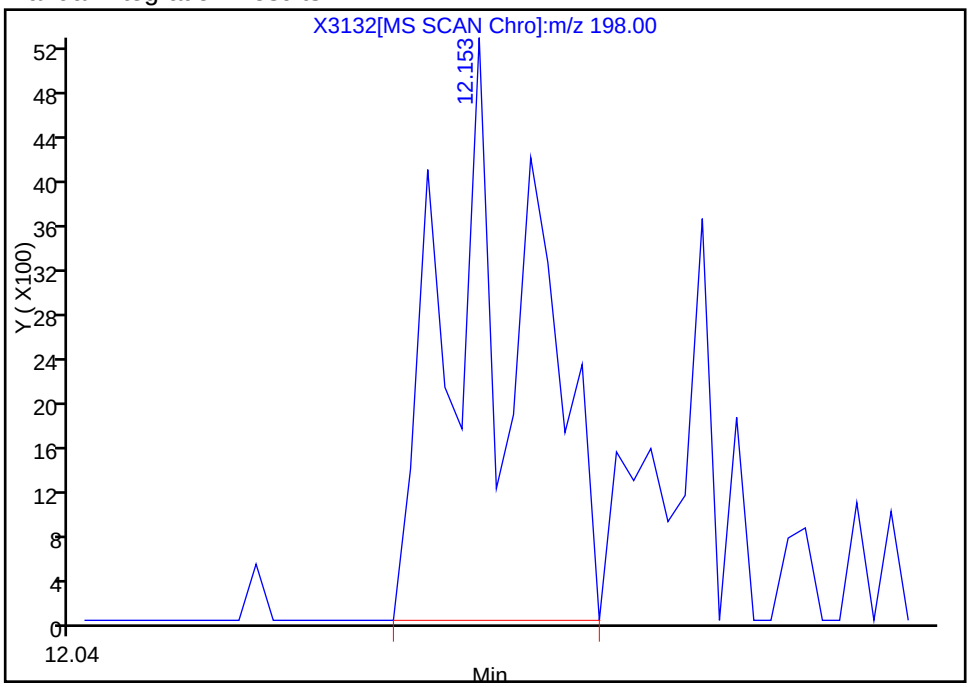
Processing Integration Results

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

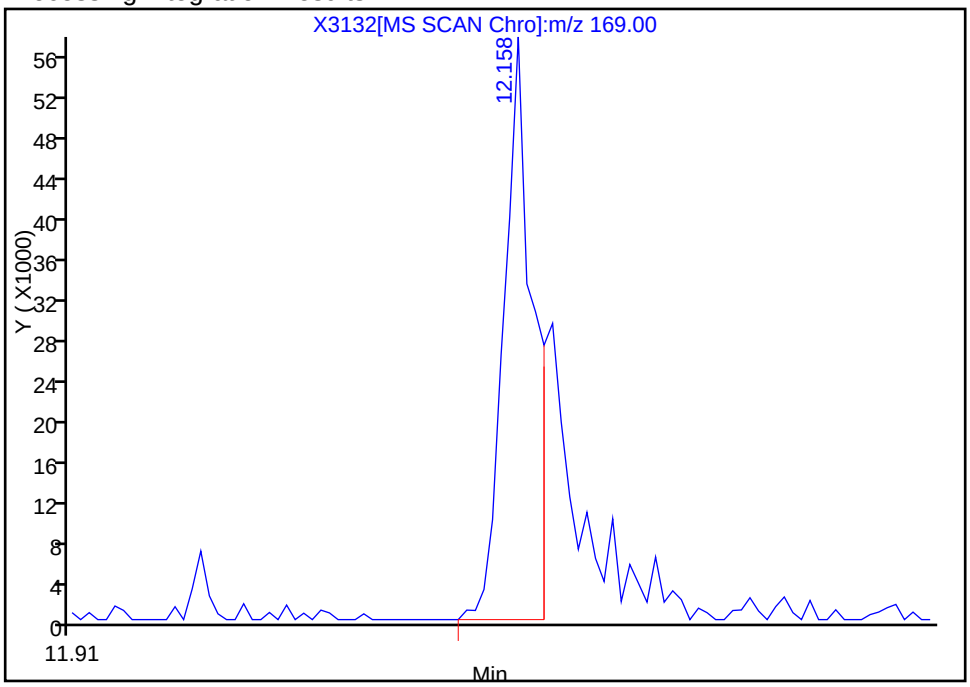
TestAmerica Buffalo

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

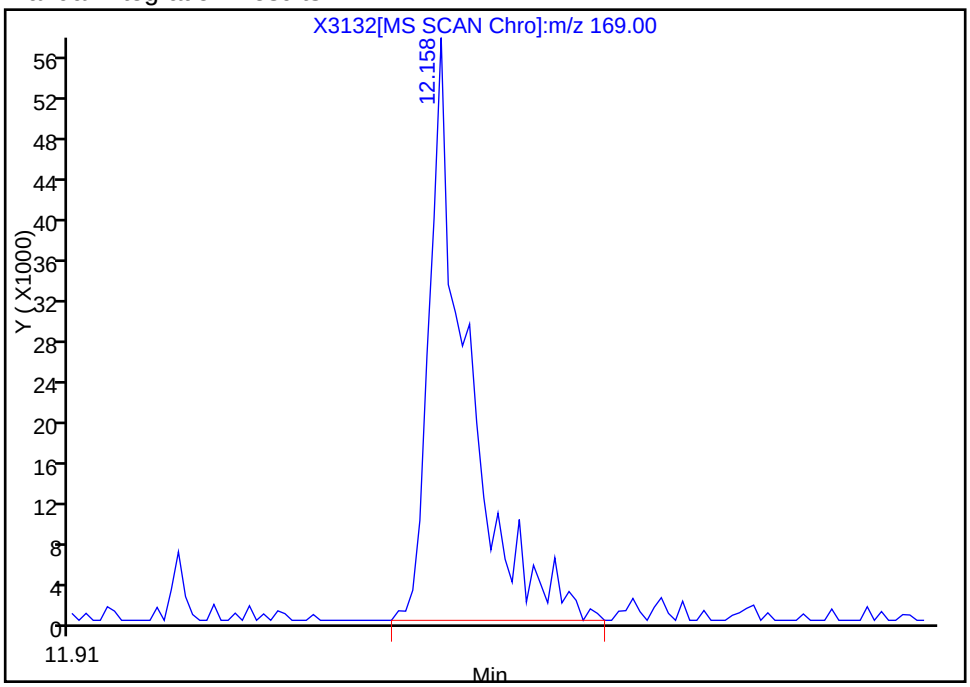
Processing Integration Results

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

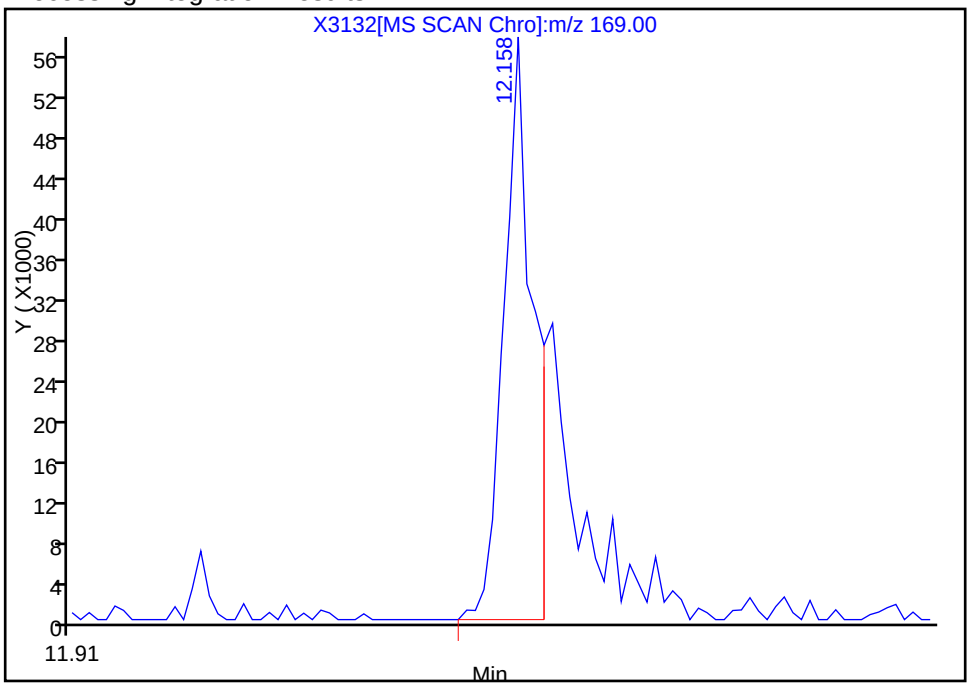
TestAmerica Buffalo

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

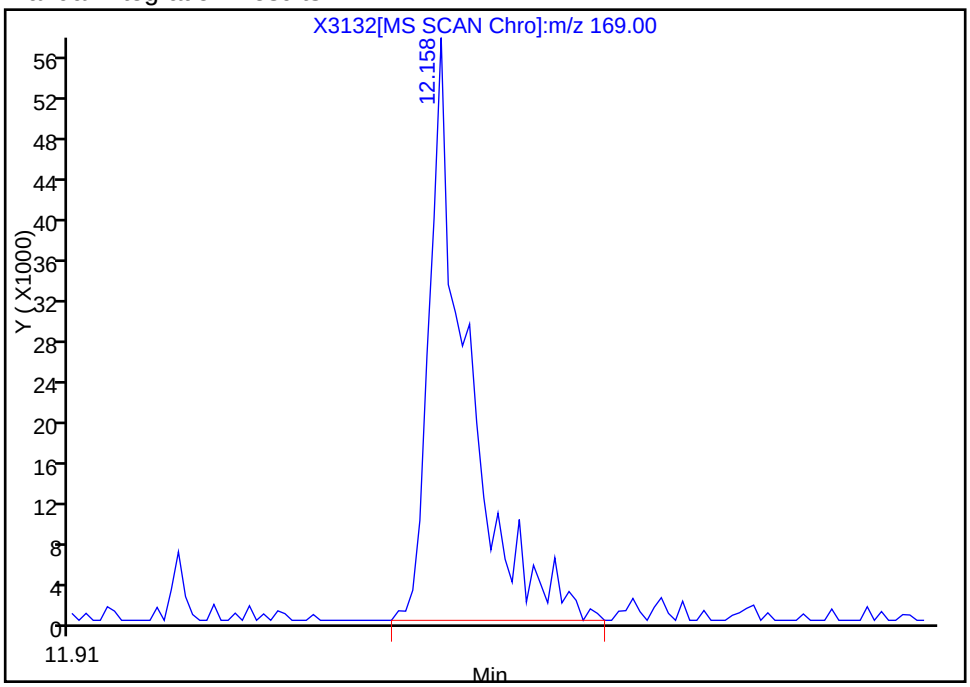
Processing Integration Results

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

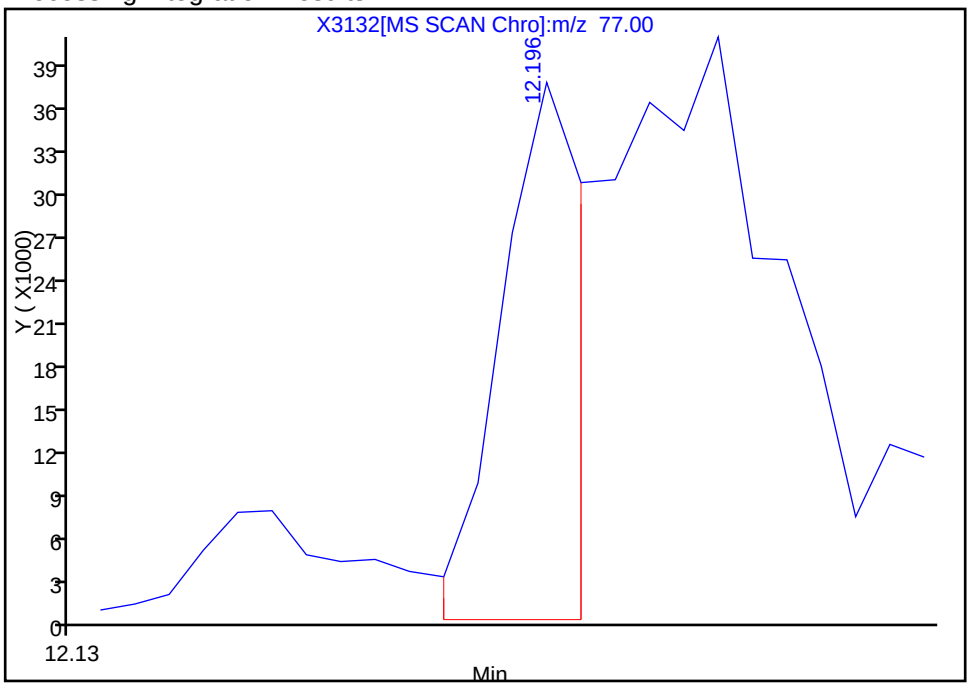
TestAmerica Buffalo

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

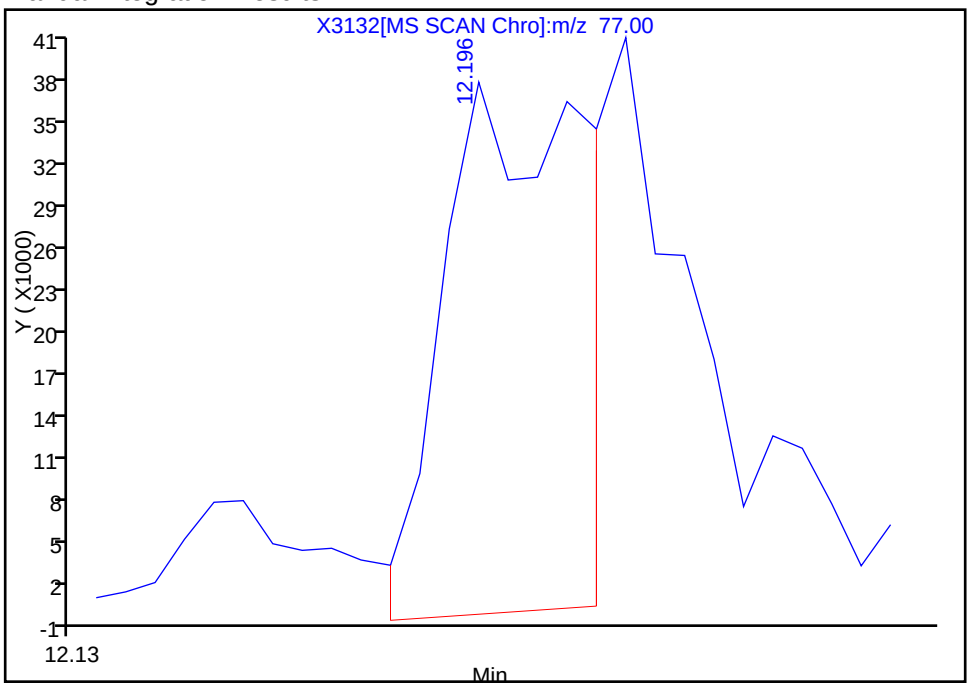
Processing Integration Results

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

Manual Integration/User Assign Peak Report

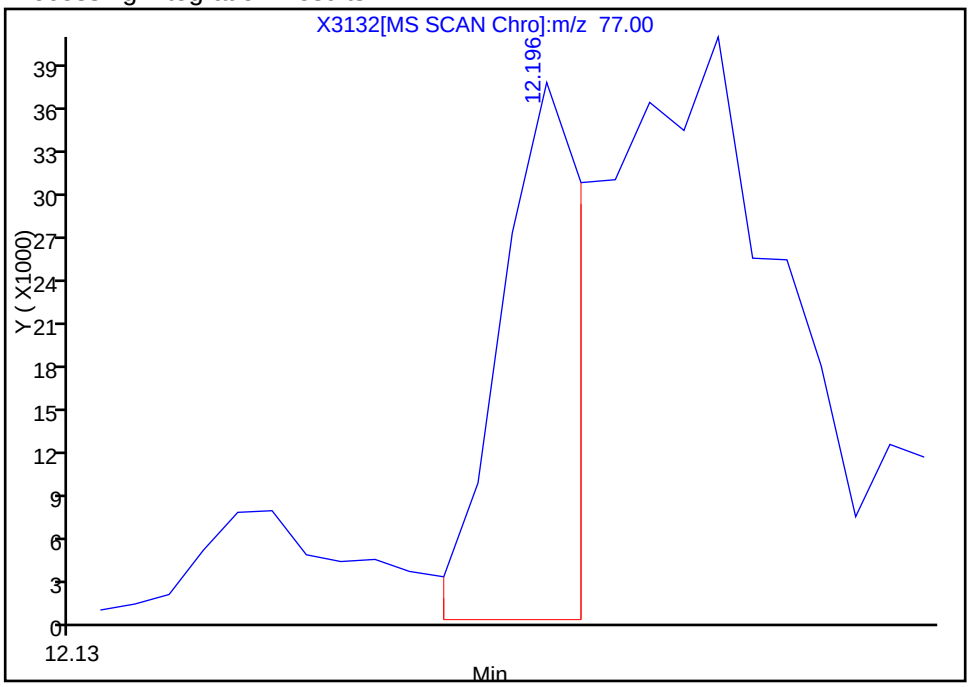
TestAmerica Buffalo

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

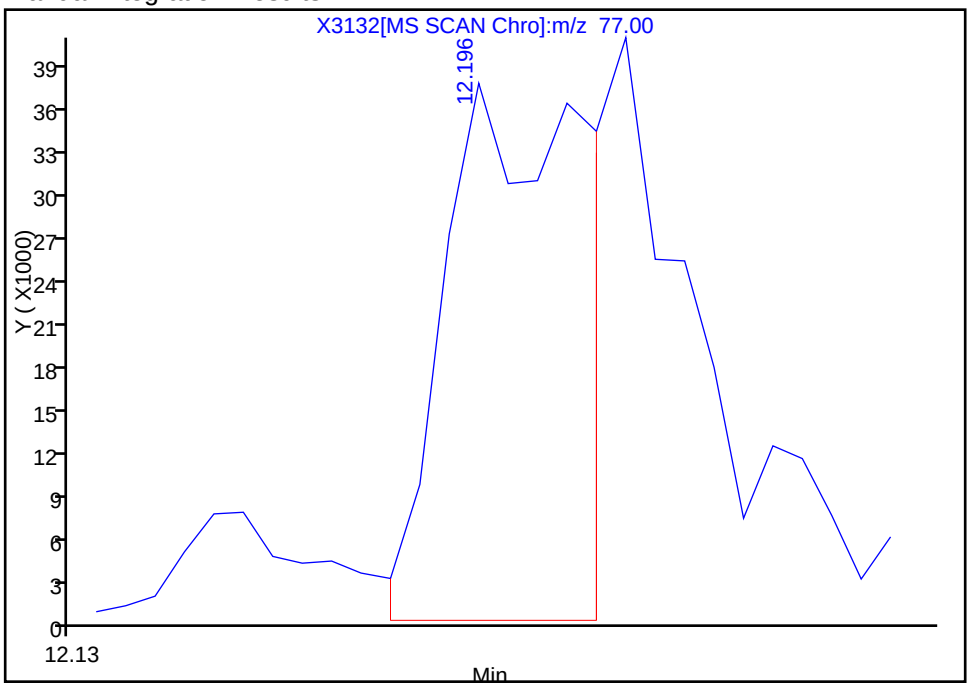
Processing Integration Results

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

Manual Integration/User Assign Peak Report

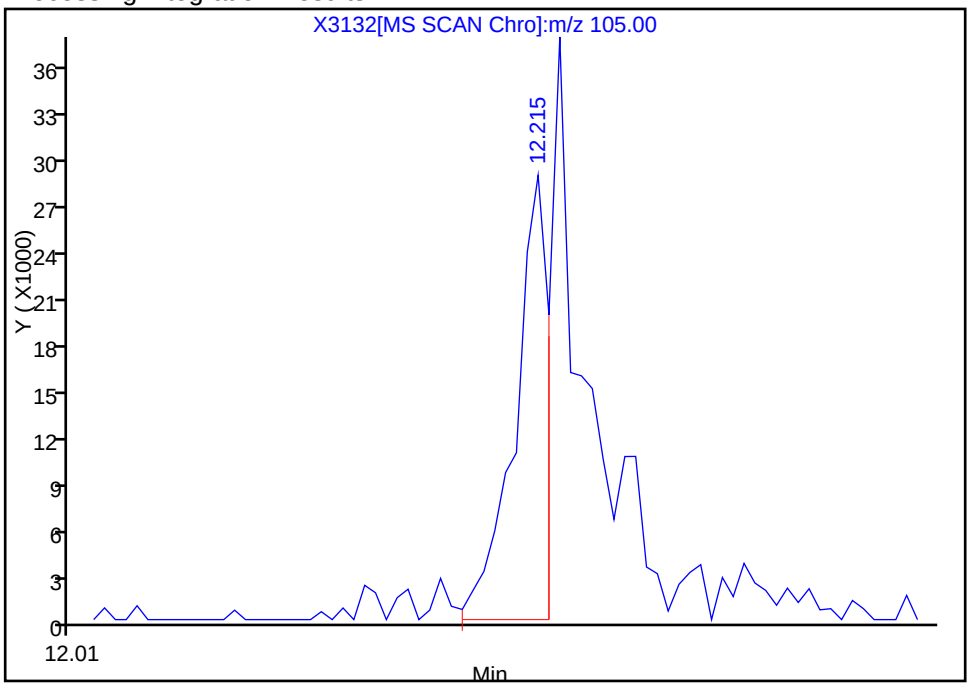
TestAmerica Buffalo

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

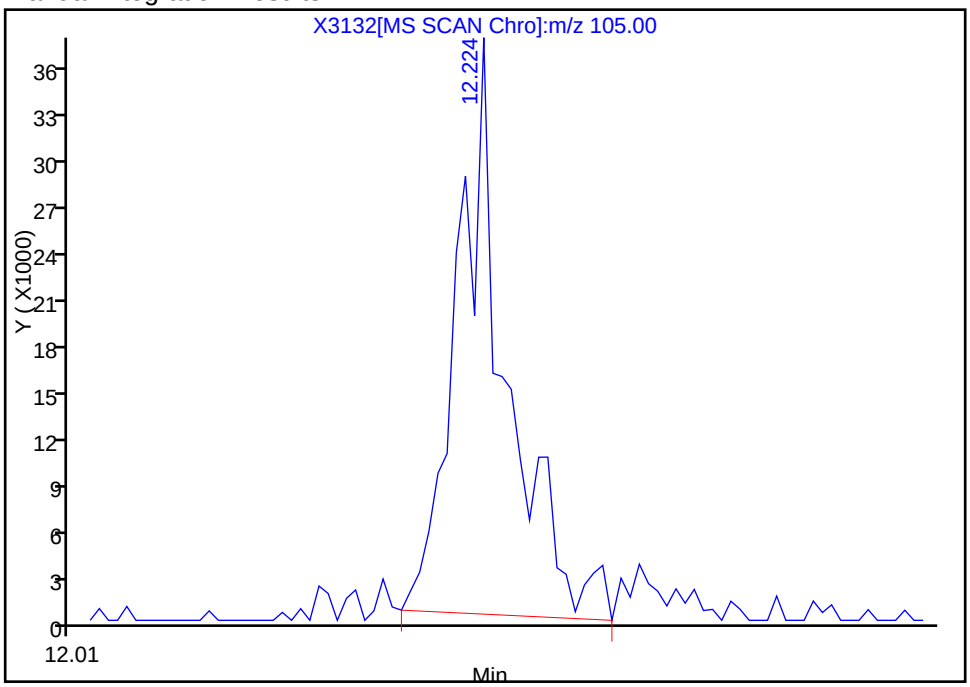
Processing Integration Results

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

Manual Integration/User Assign Peak Report

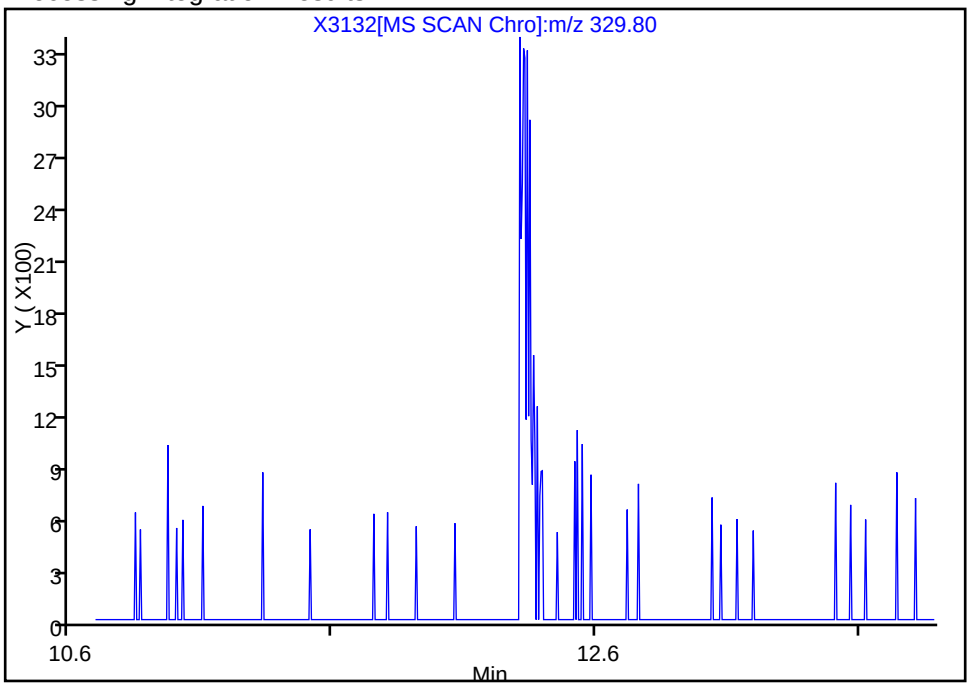
TestAmerica Buffalo

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

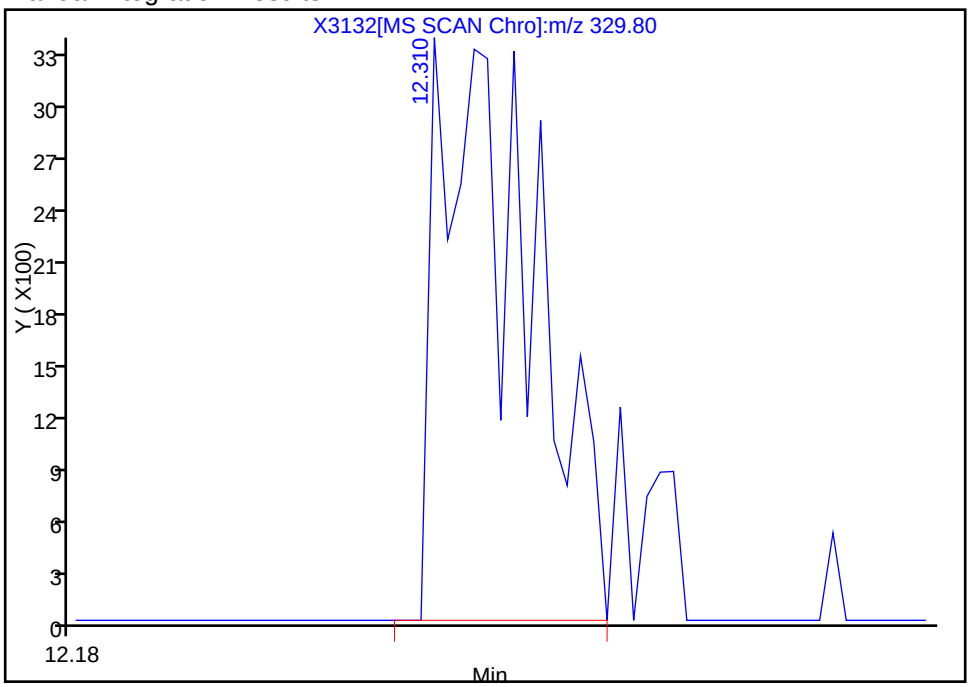
Processing Integration Results

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

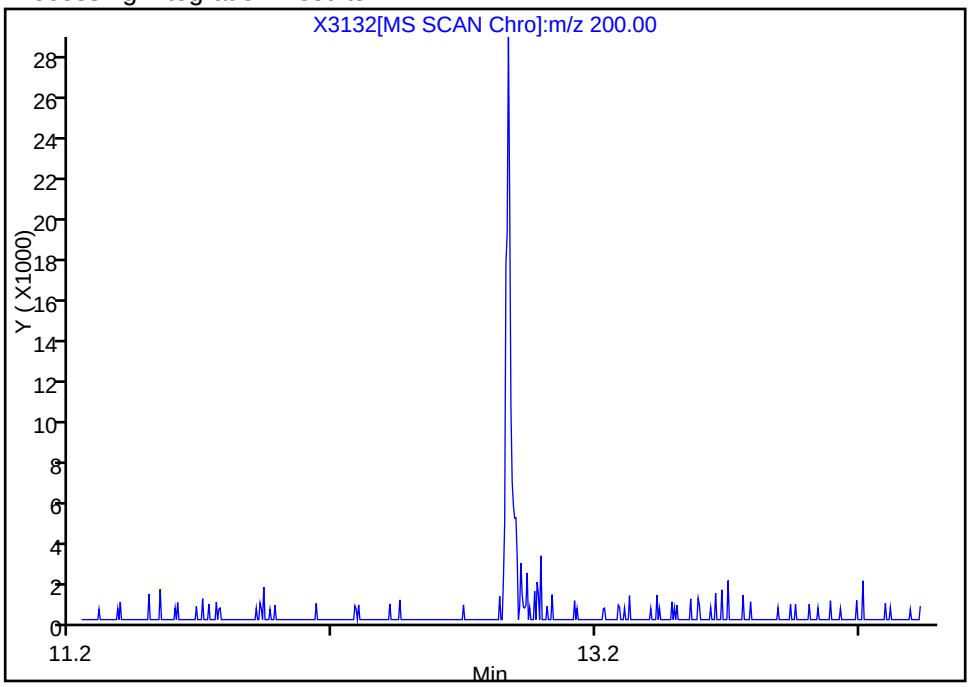
TestAmerica Buffalo

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

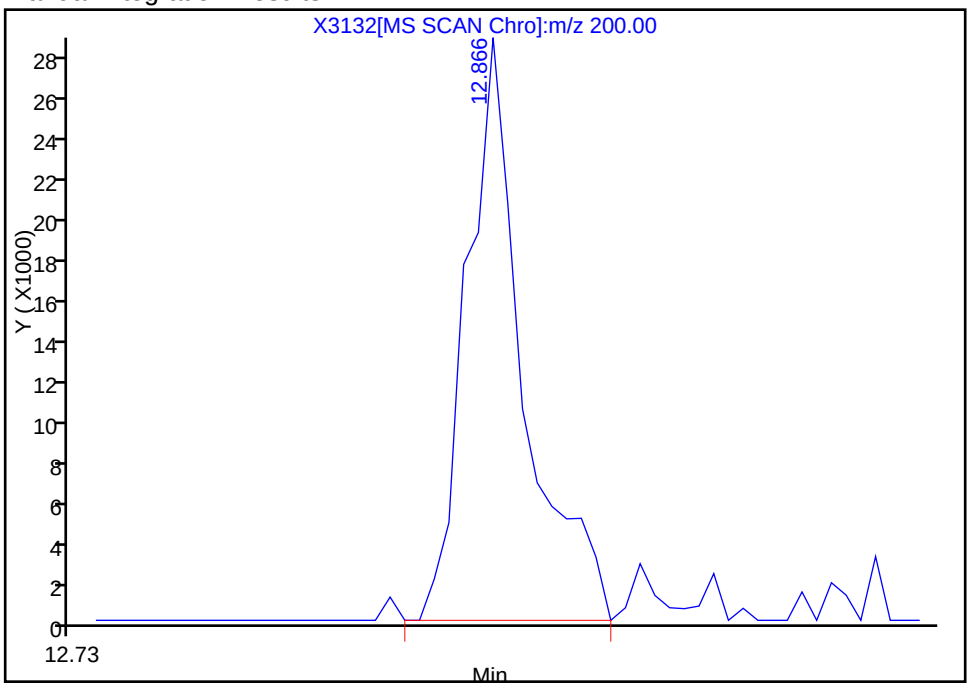
Processing Integration Results

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

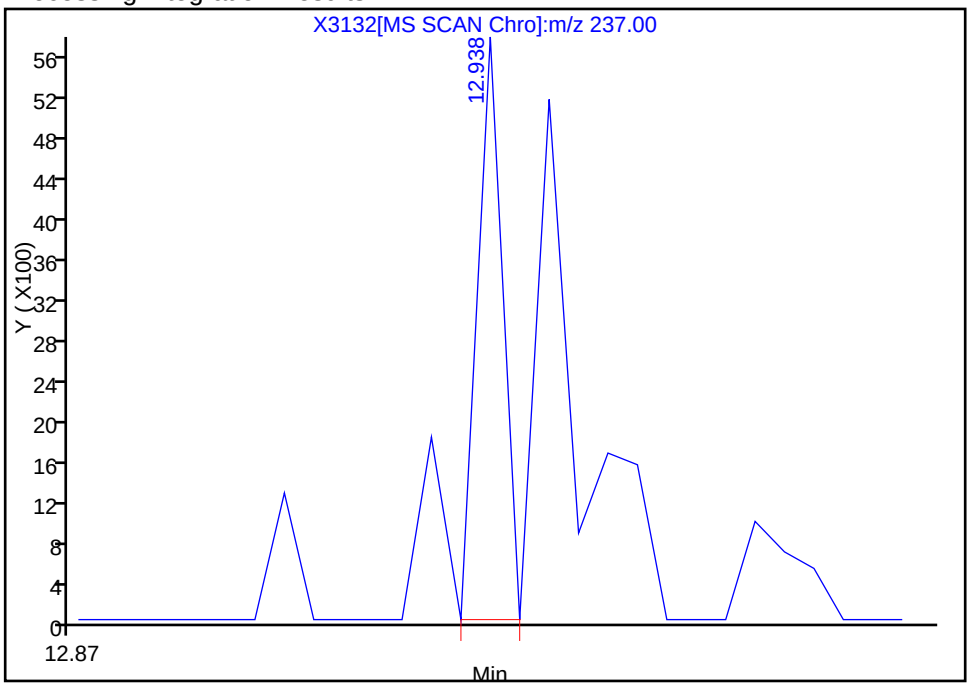
TestAmerica Buffalo

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

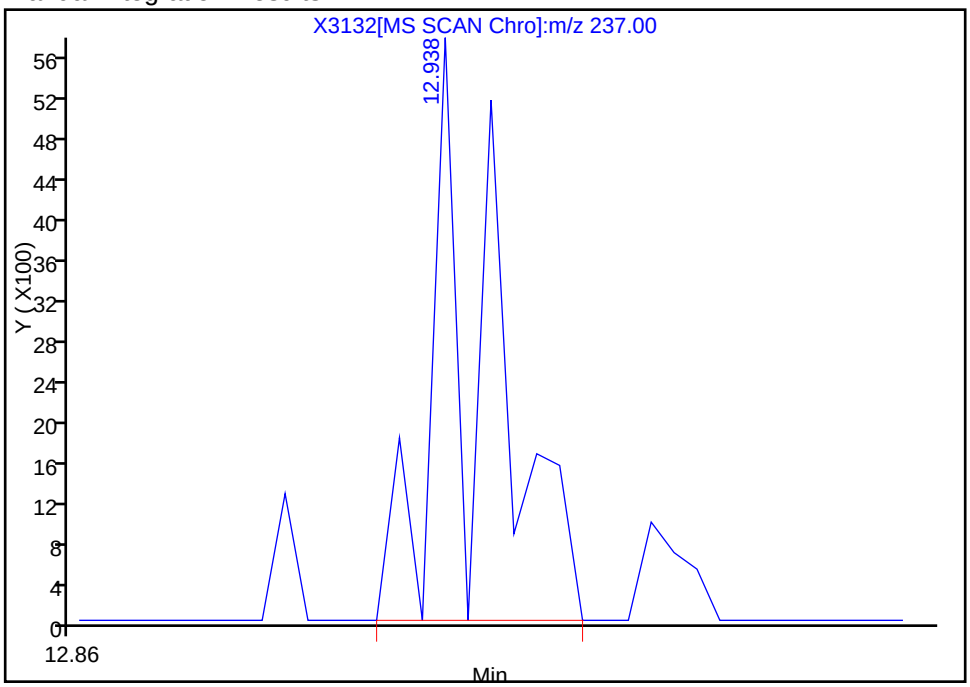
Processing Integration Results

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

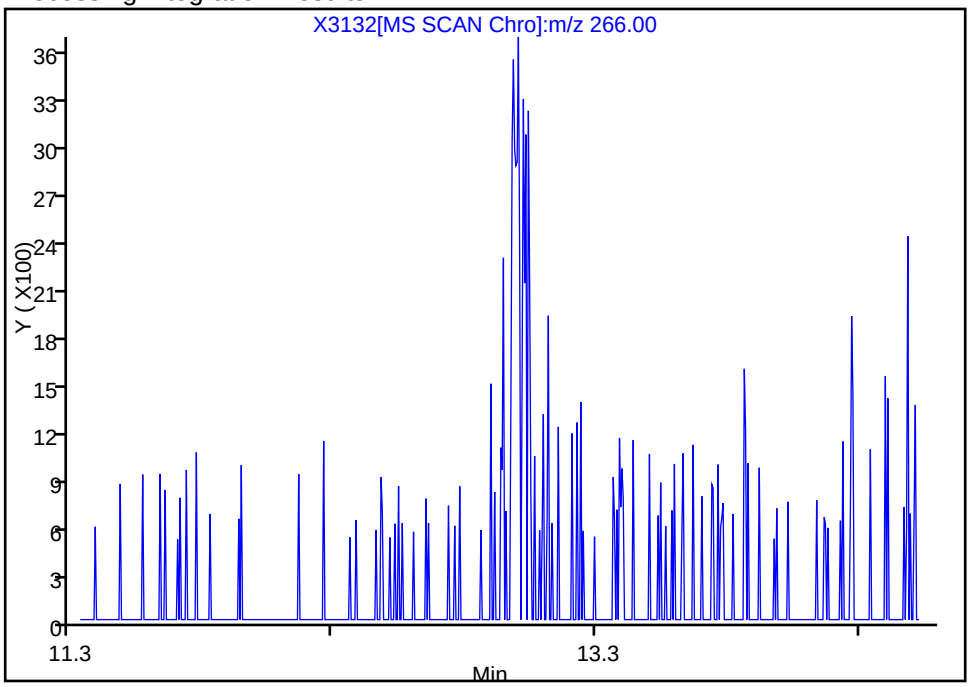
TestAmerica Buffalo

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

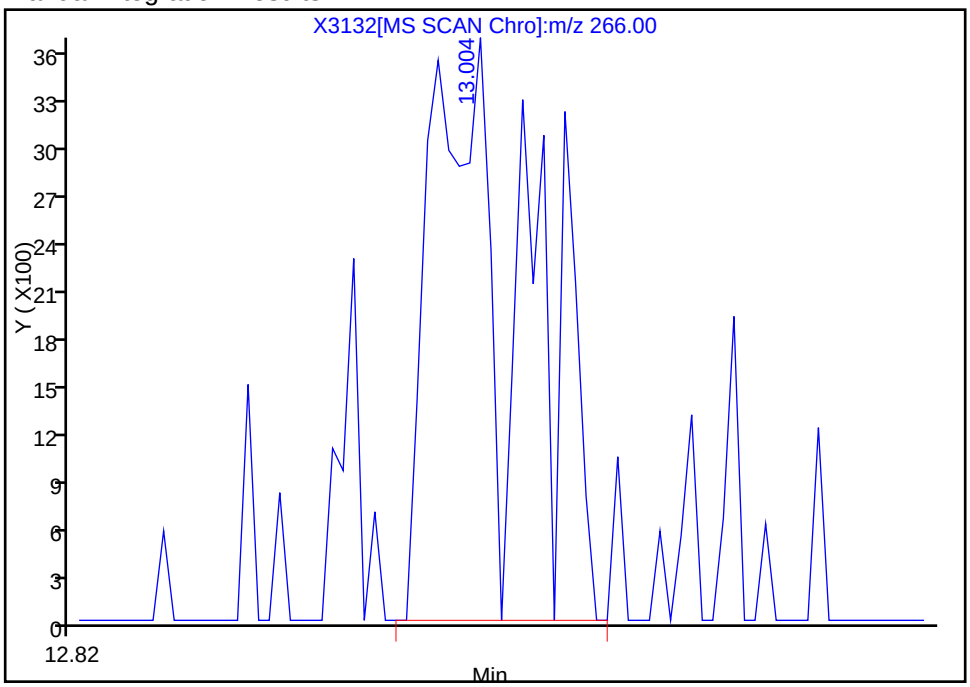
Processing Integration Results

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

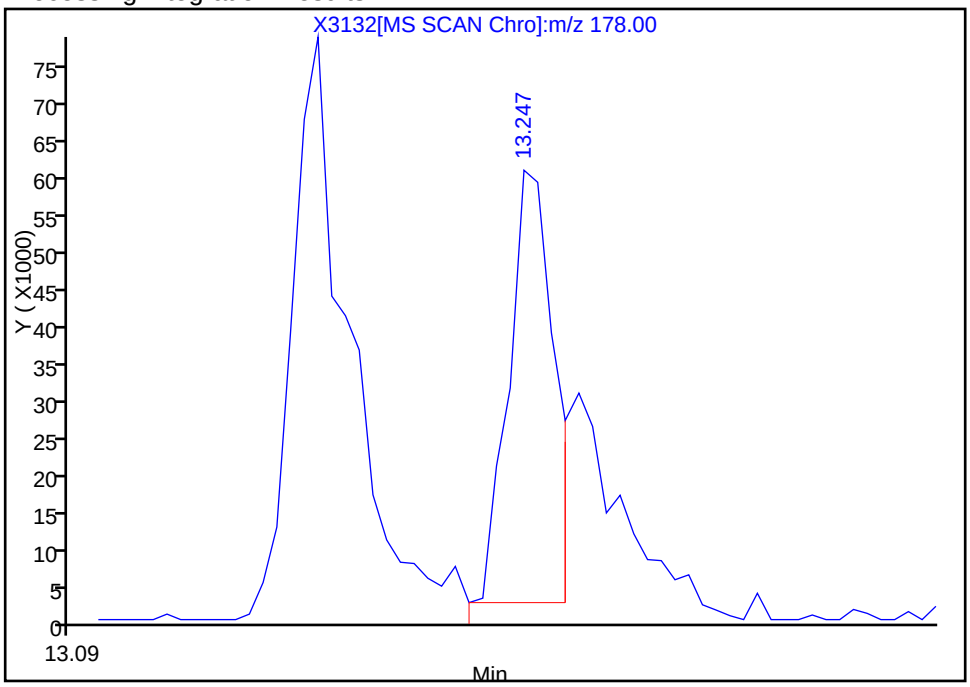
TestAmerica Buffalo

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

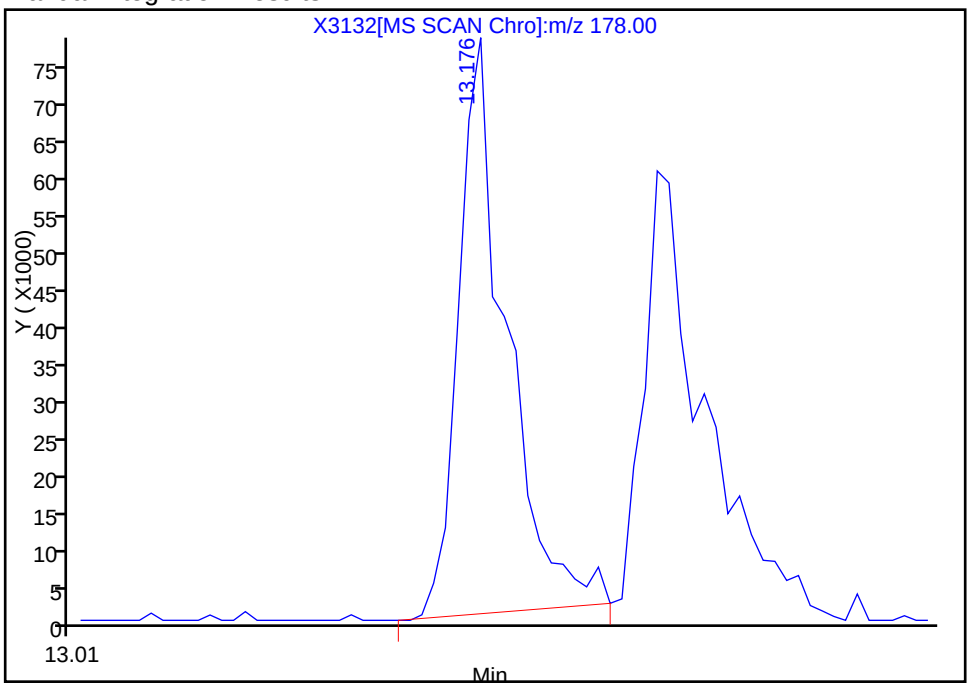
Processing Integration Results

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

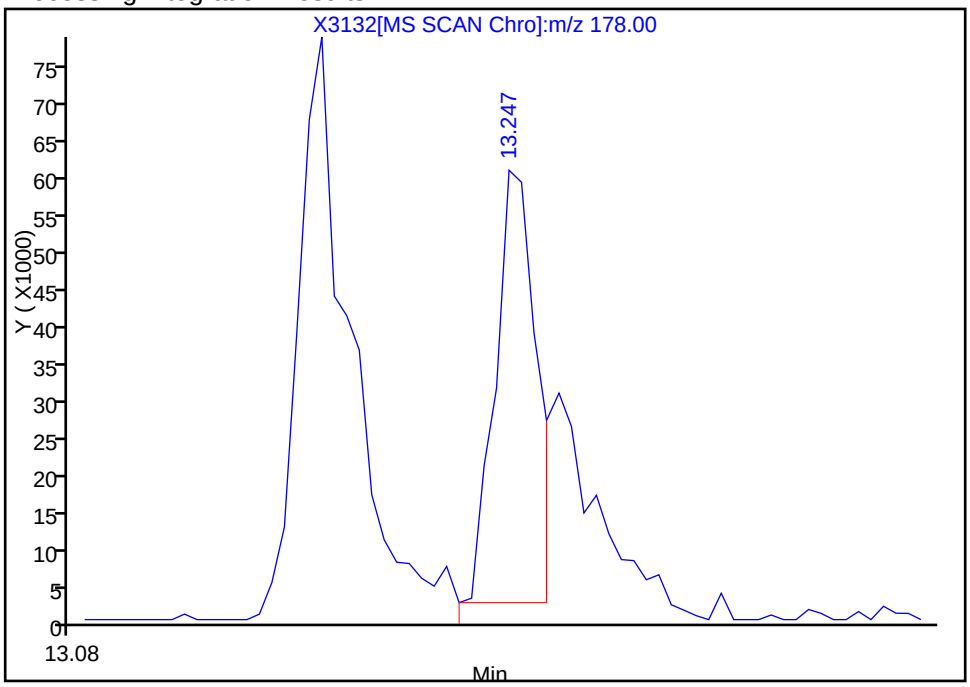
TestAmerica Buffalo

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

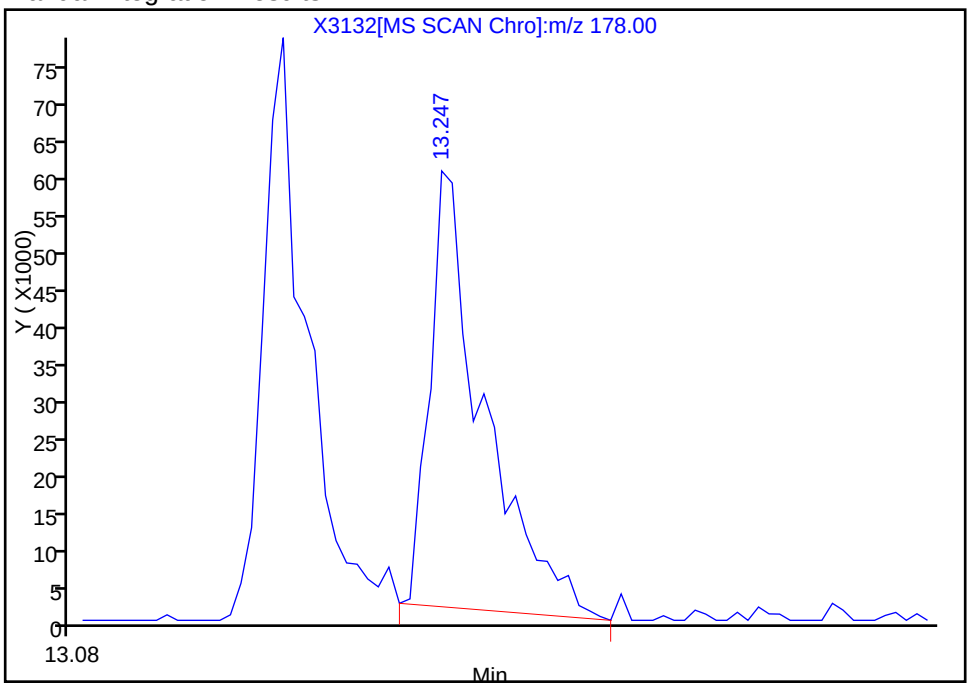
Processing Integration Results

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

Manual Integration/User Assign Peak Report

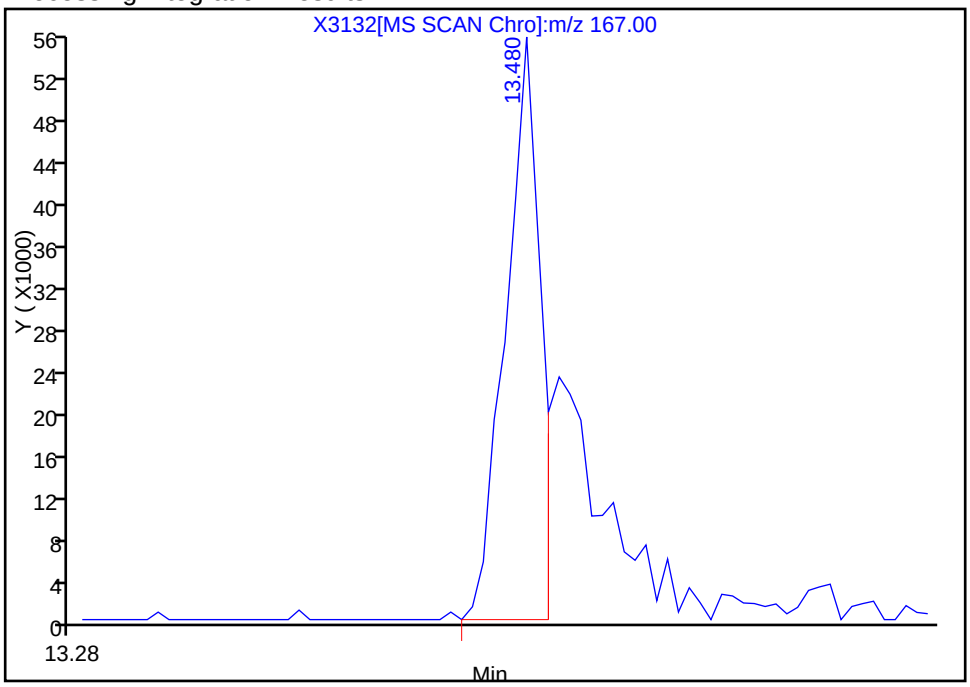
TestAmerica Buffalo

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

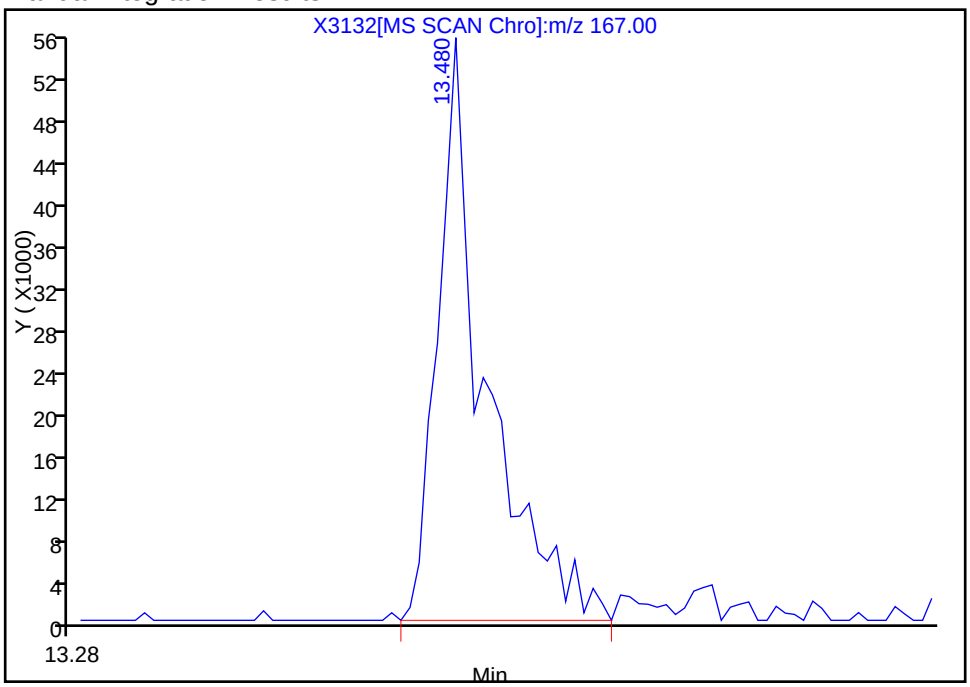
Processing Integration Results

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

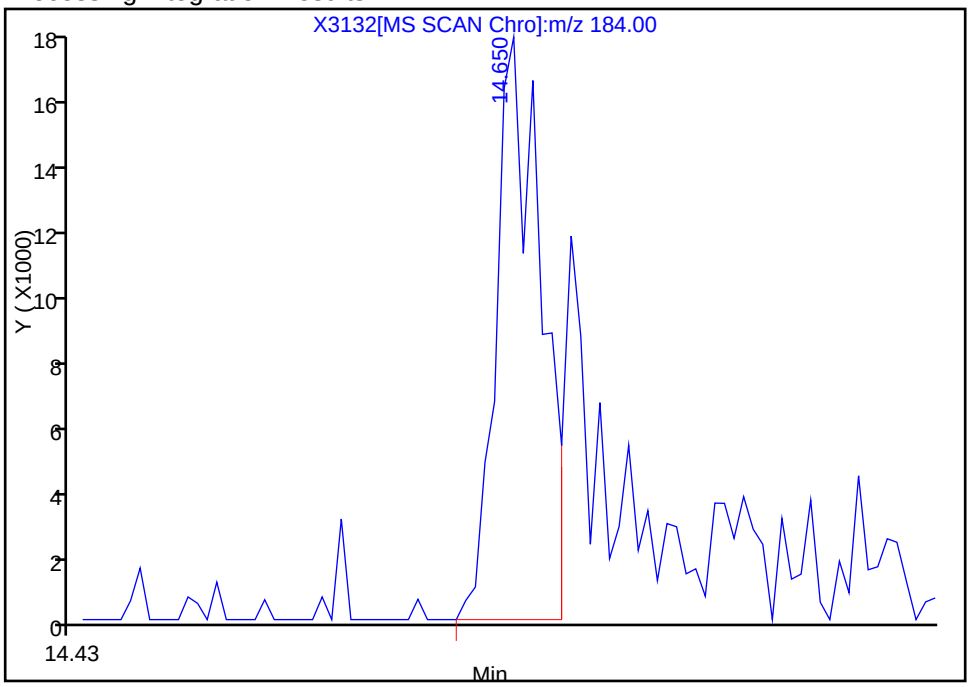
TestAmerica Buffalo

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

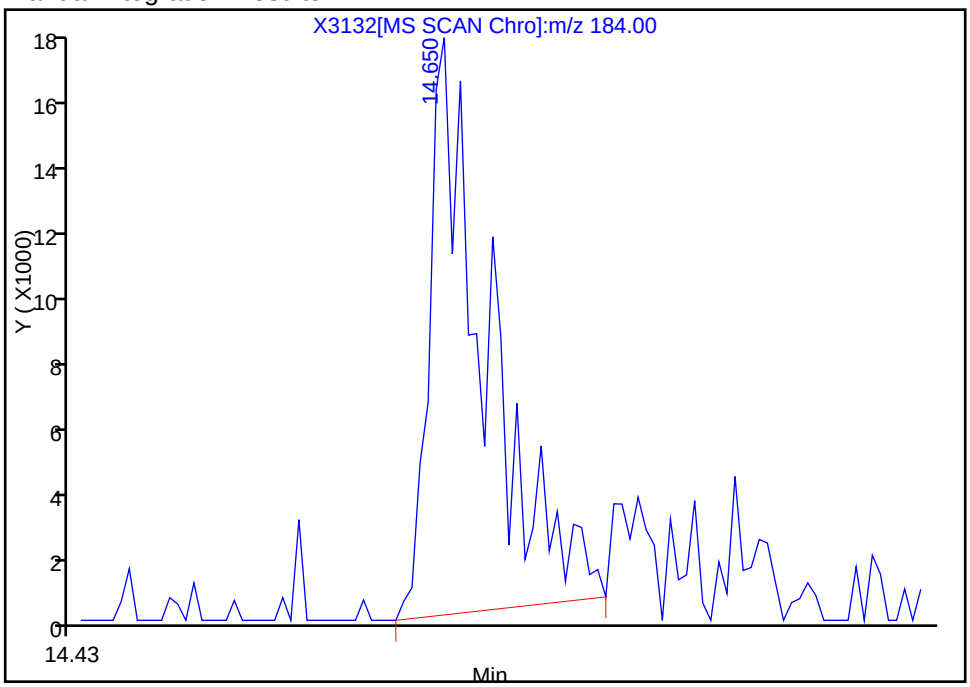
Processing Integration Results

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

Manual Integration/User Assign Peak Report

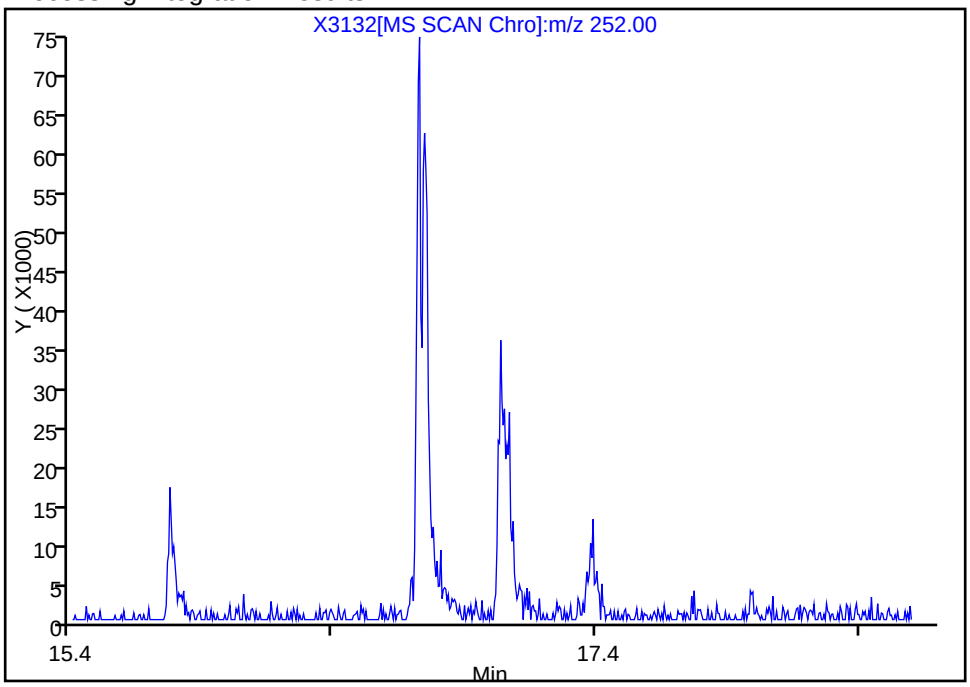
TestAmerica Buffalo

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

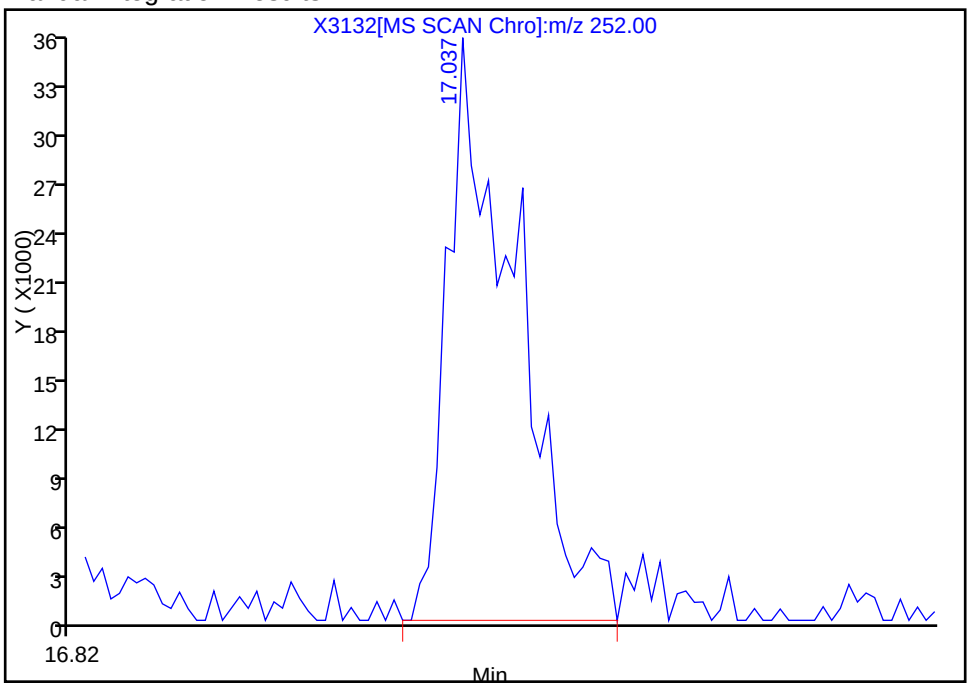
Processing Integration Results

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

Manual Integration/User Assign Peak Report

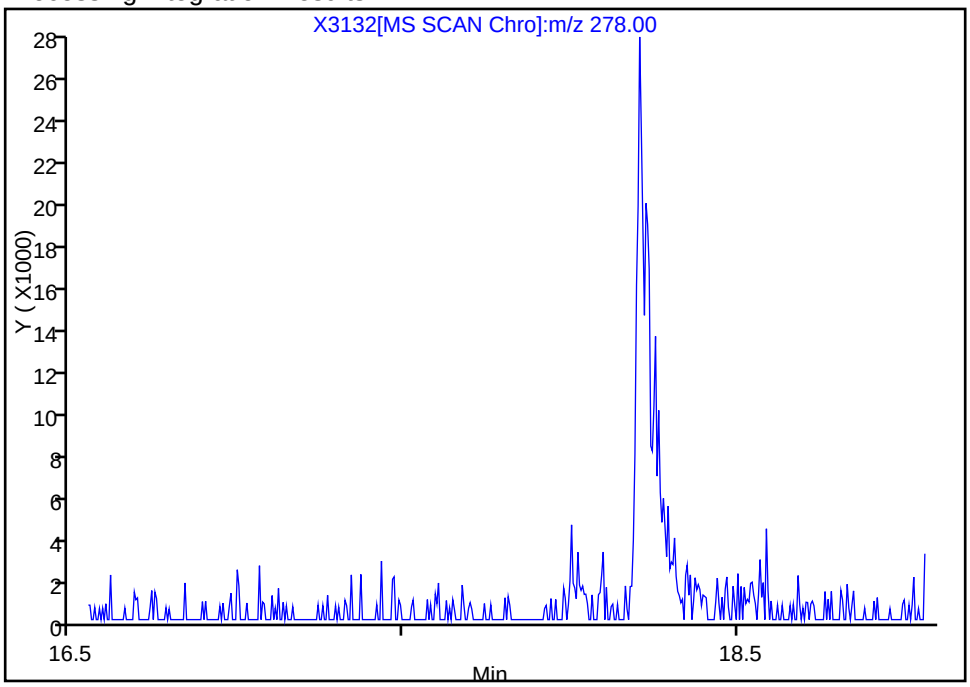
TestAmerica Buffalo

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

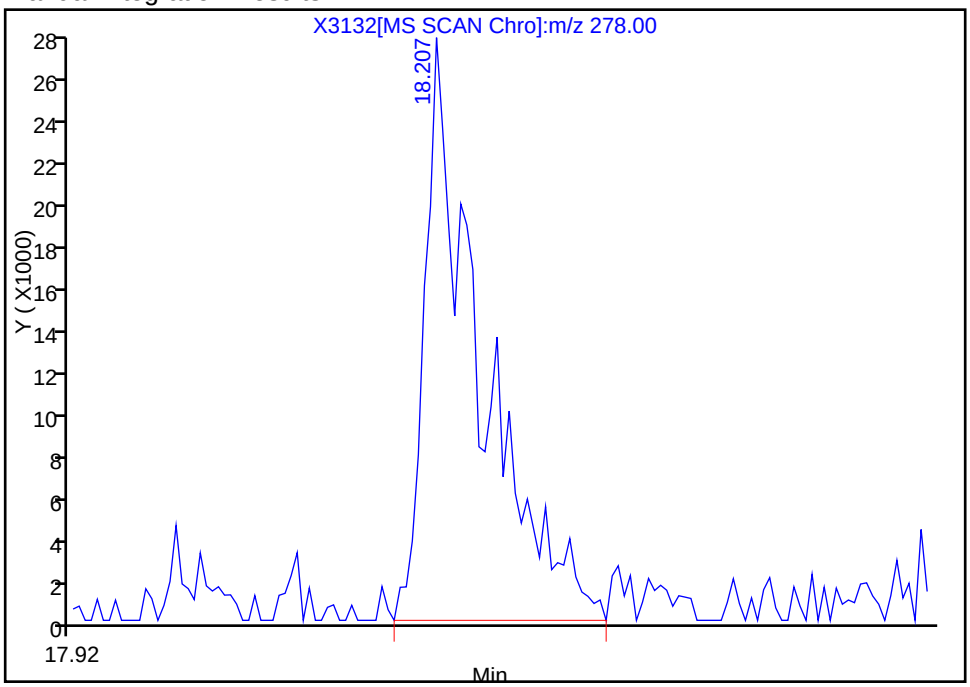
Processing Integration Results

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

Manual Integration/User Assign Peak Report

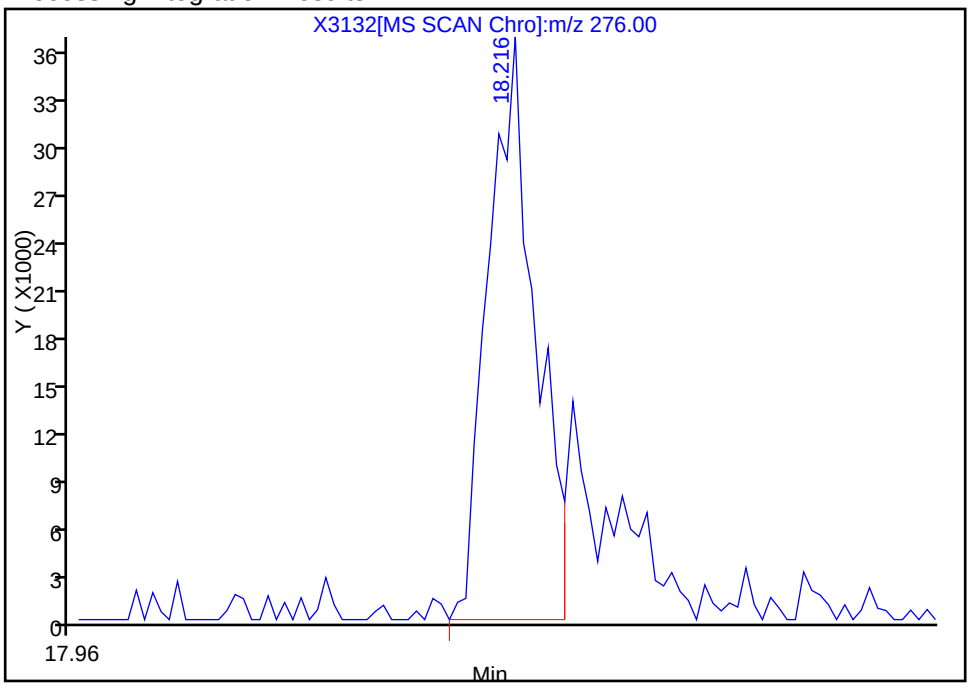
TestAmerica Buffalo

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

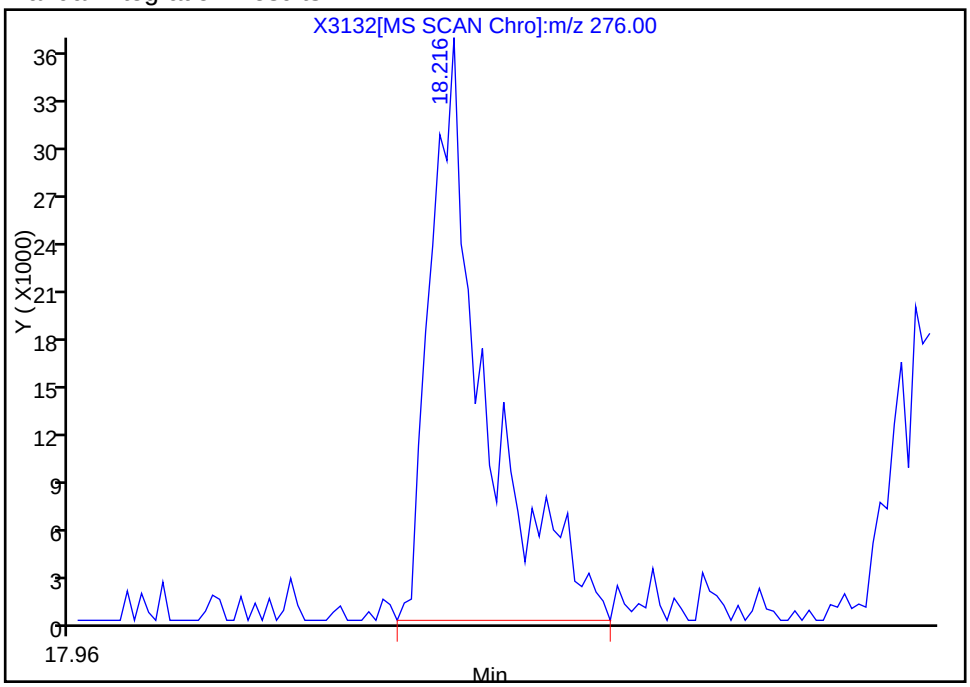
Processing Integration Results

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

Manual Integration/User Assign Peak Report

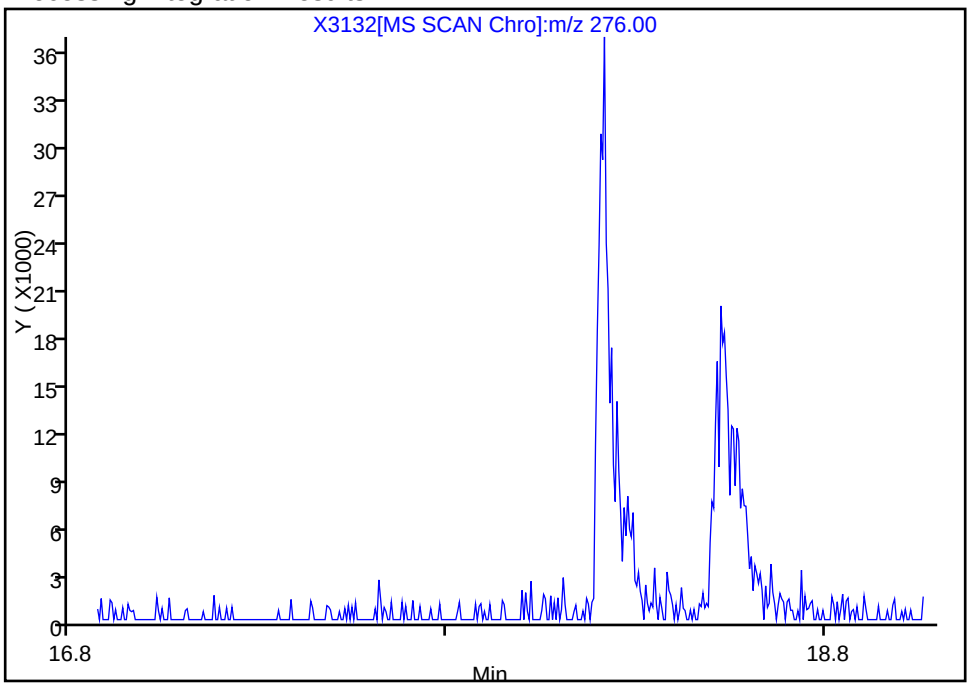
TestAmerica Buffalo

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

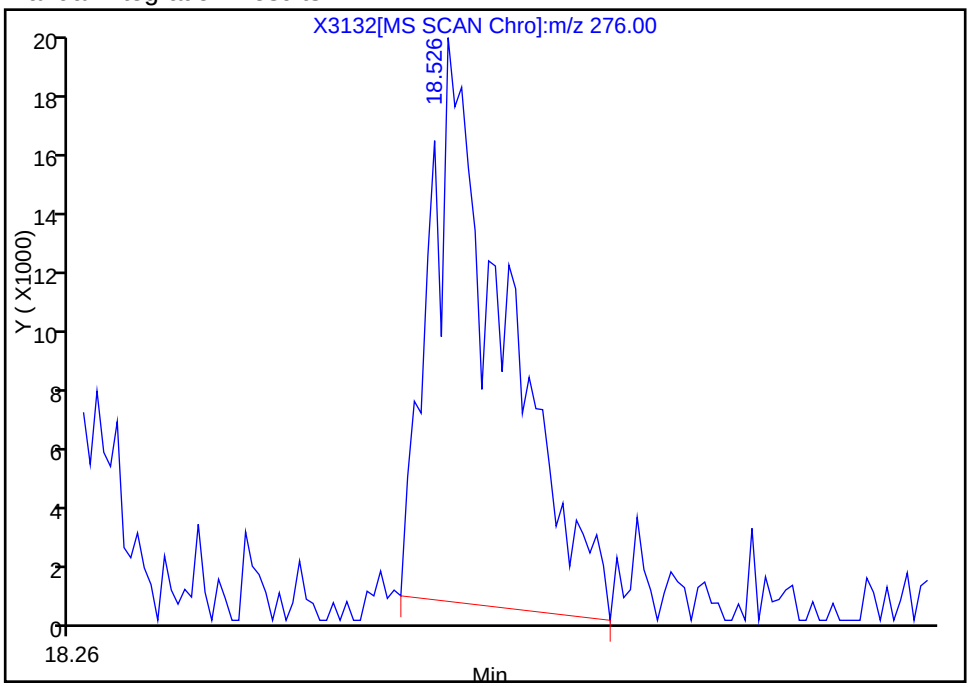
Processing Integration Results

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

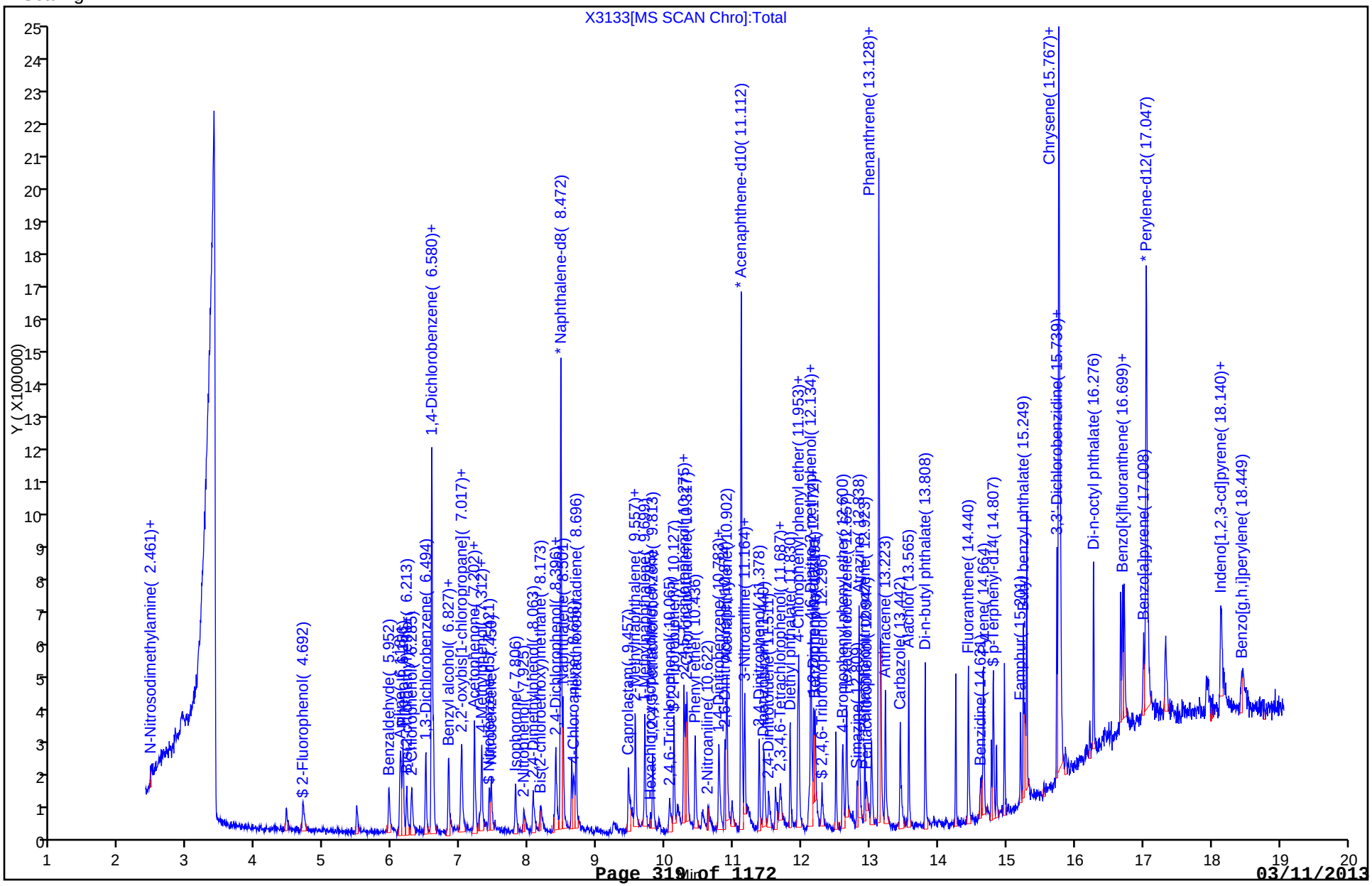
Review Flags
M - Manually Integrated

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

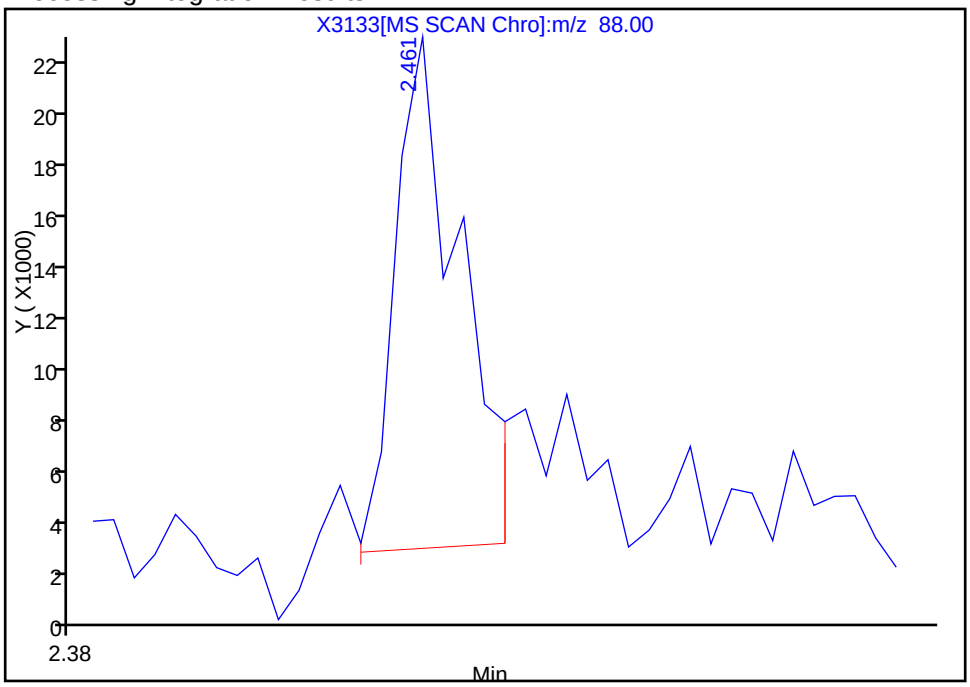
TestAmerica Buffalo

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

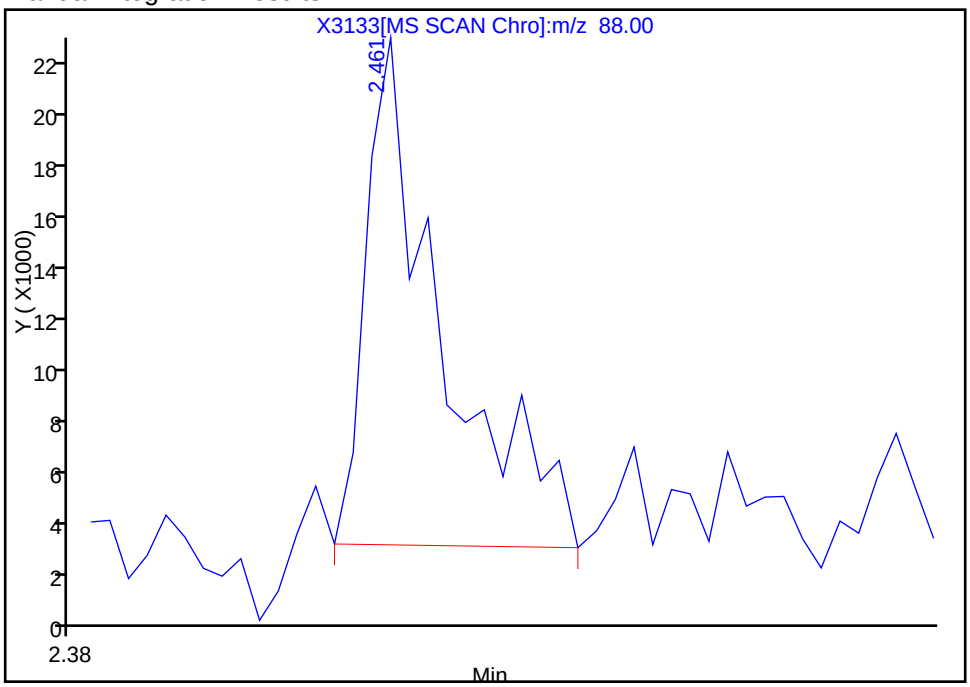
Processing Integration Results

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

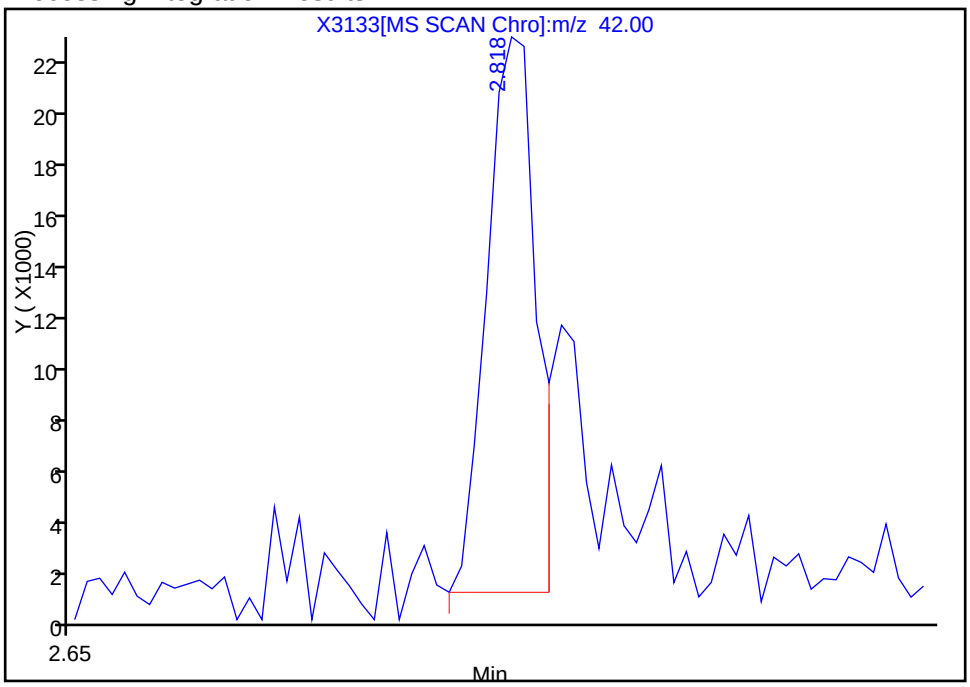
TestAmerica Buffalo

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

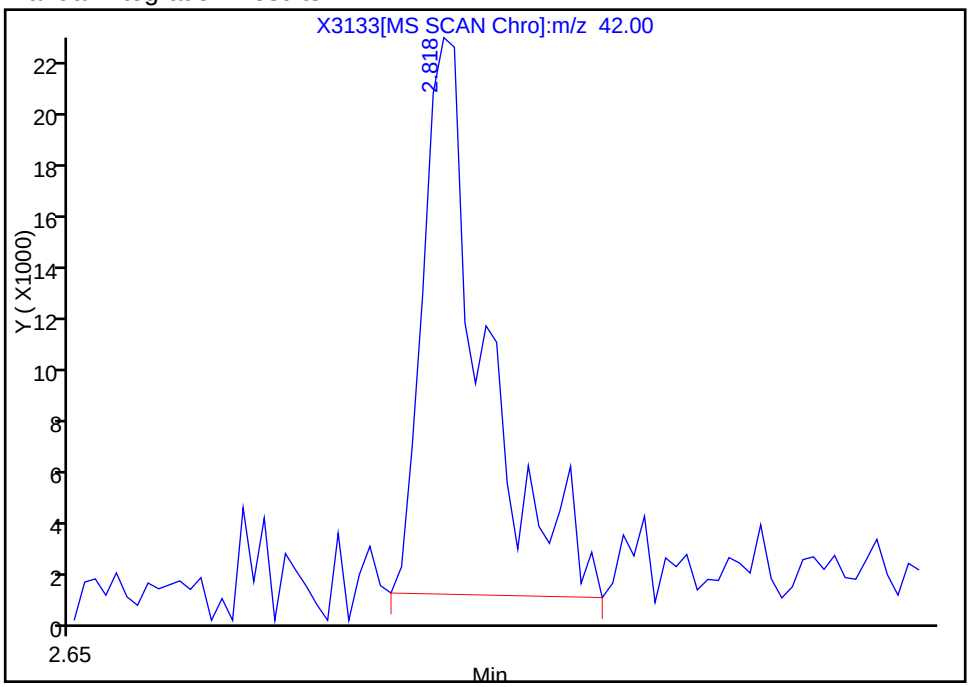
Processing Integration Results

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

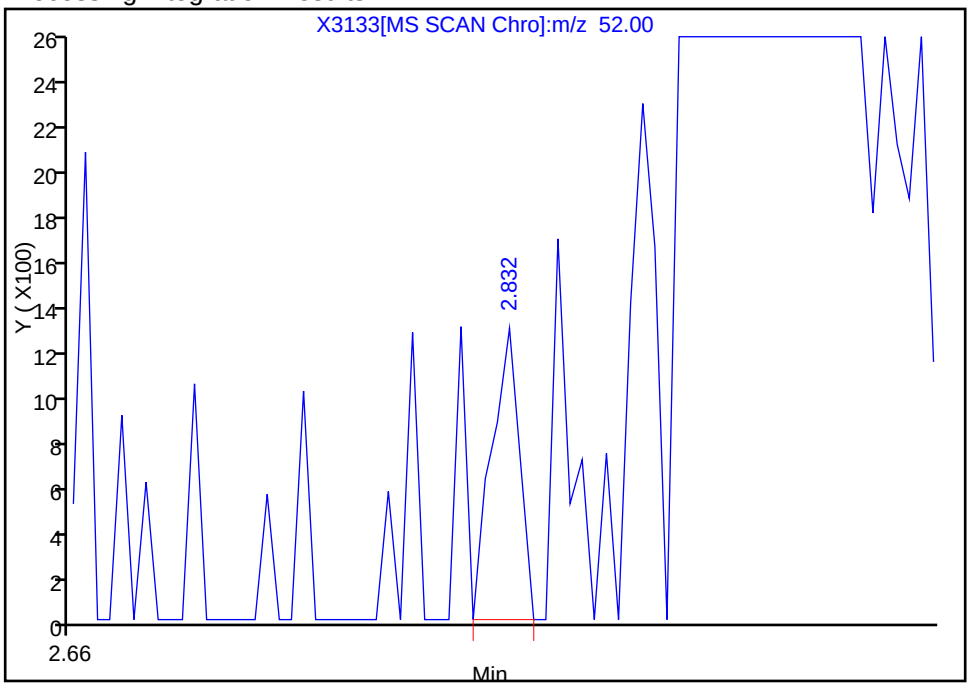
TestAmerica Buffalo

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

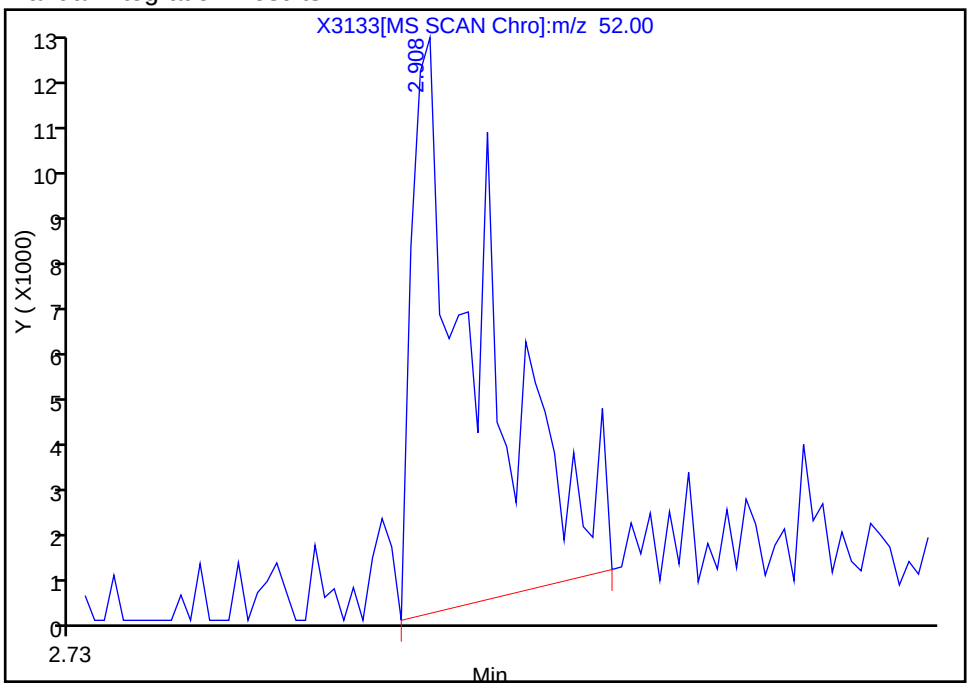
Processing Integration Results

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
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

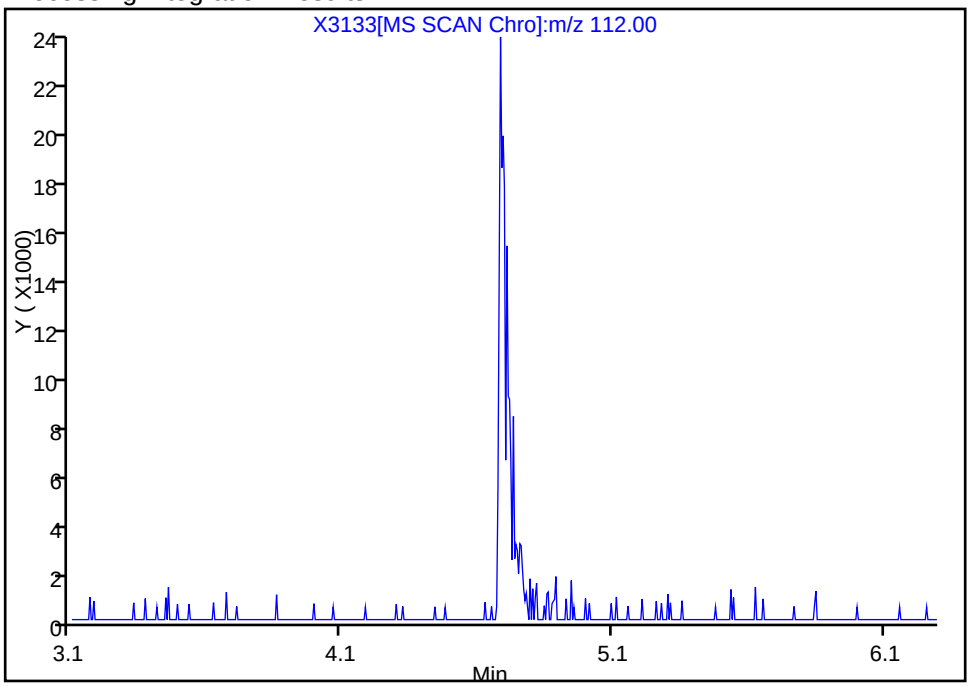
TestAmerica Buffalo

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

$ 7 2-Fluorophenol, Signal: 1, m/z: 112.0 Type: quant, RT: 4.70

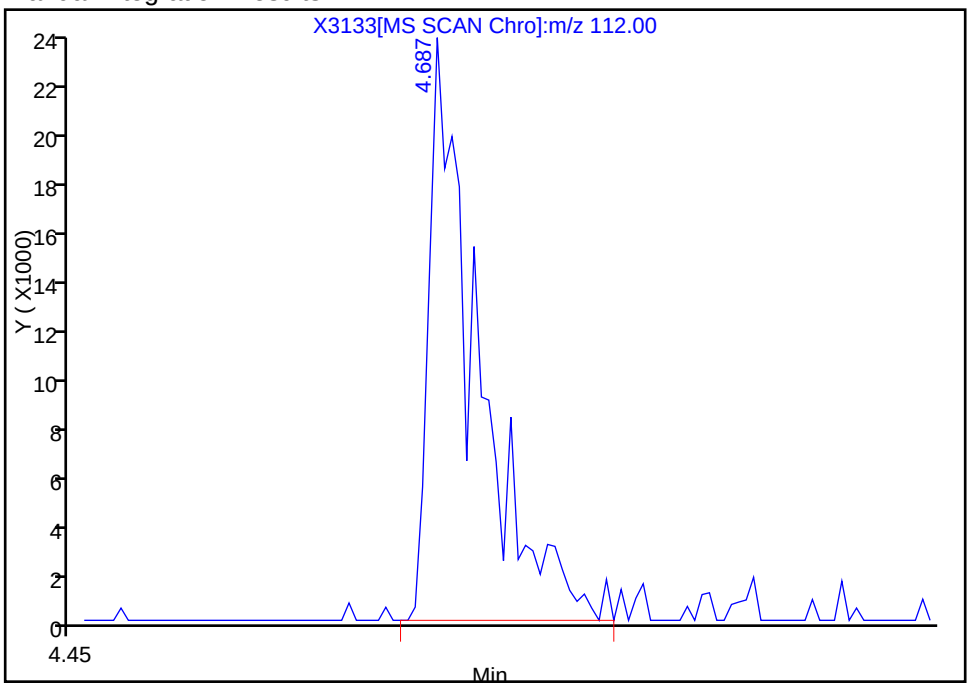
Processing Integration Results

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
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

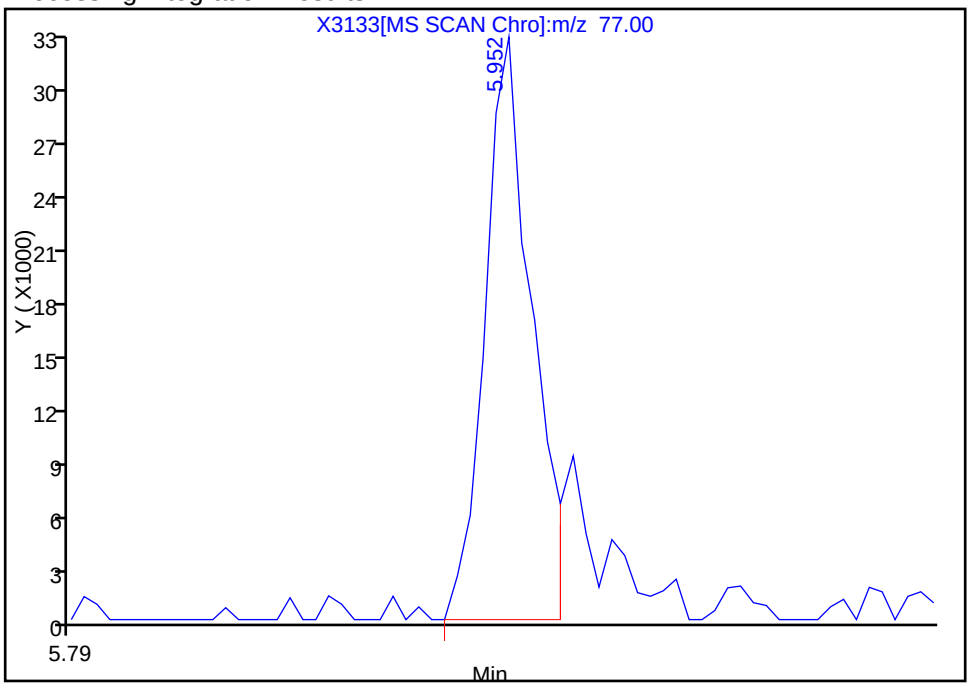
TestAmerica Buffalo

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

21 Benzaldehyde, Signal: 1, m/z: 77.0 Type: quant, RT: 5.96

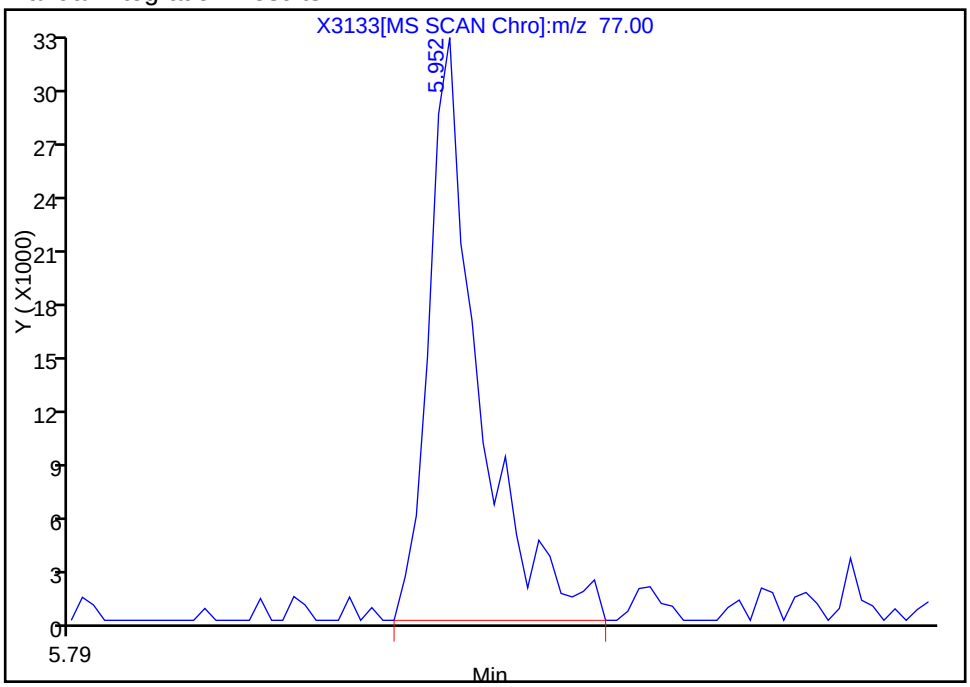
Processing Integration Results

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
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

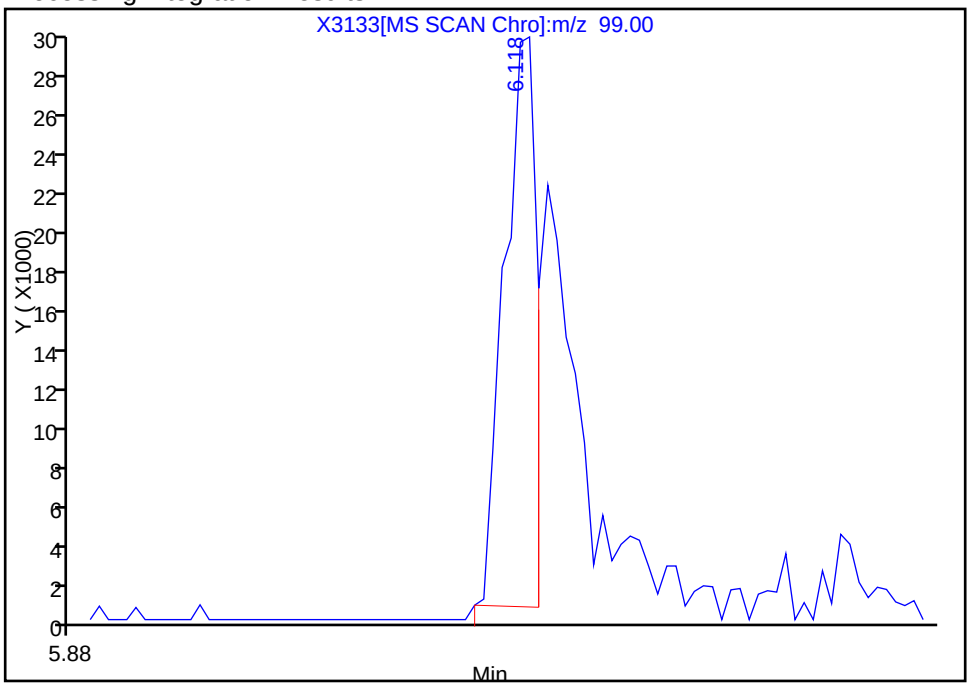
TestAmerica Buffalo

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

$ 8 Phenol-d5, Signal: 1, m/z: 99.0 Type: quant, RT: 6.12

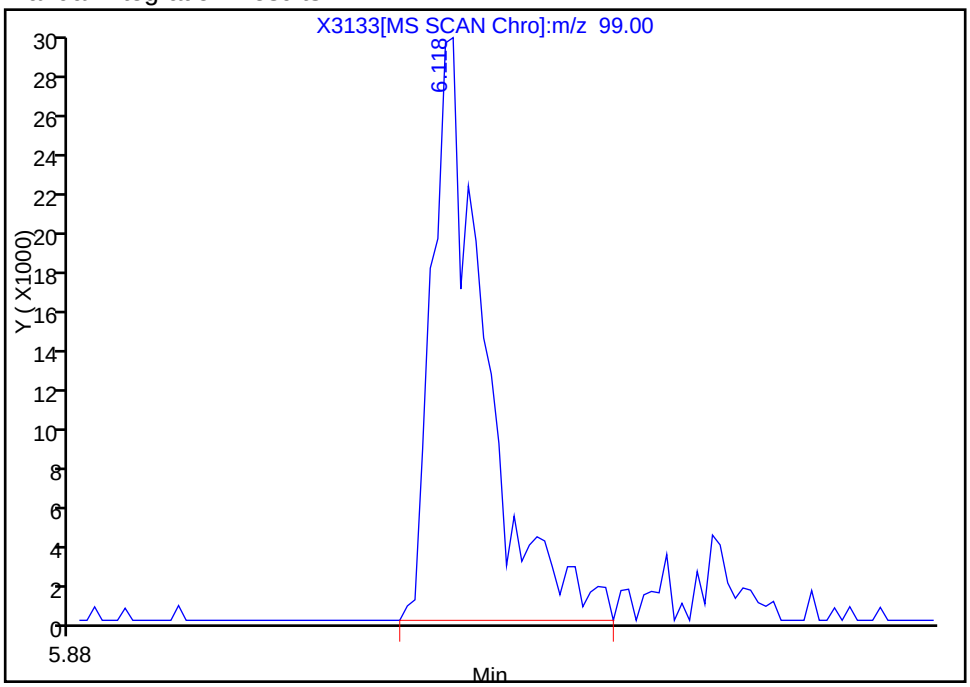
Processing Integration Results

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
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

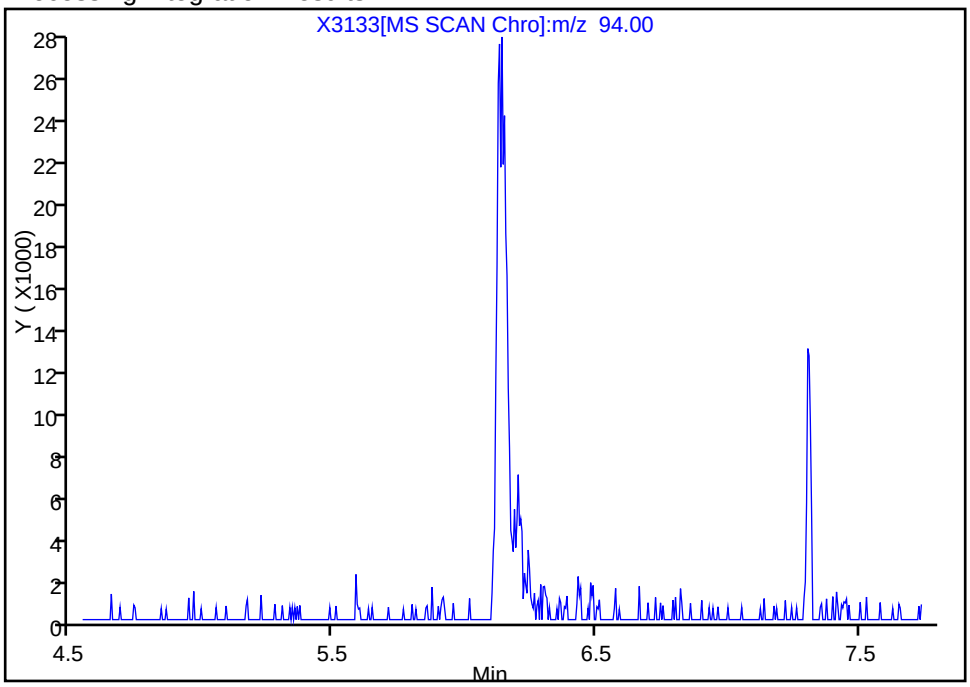
TestAmerica Buffalo

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

22 Phenol, Signal: 1, m/z: 94.0 Type: quant, RT: 6.14

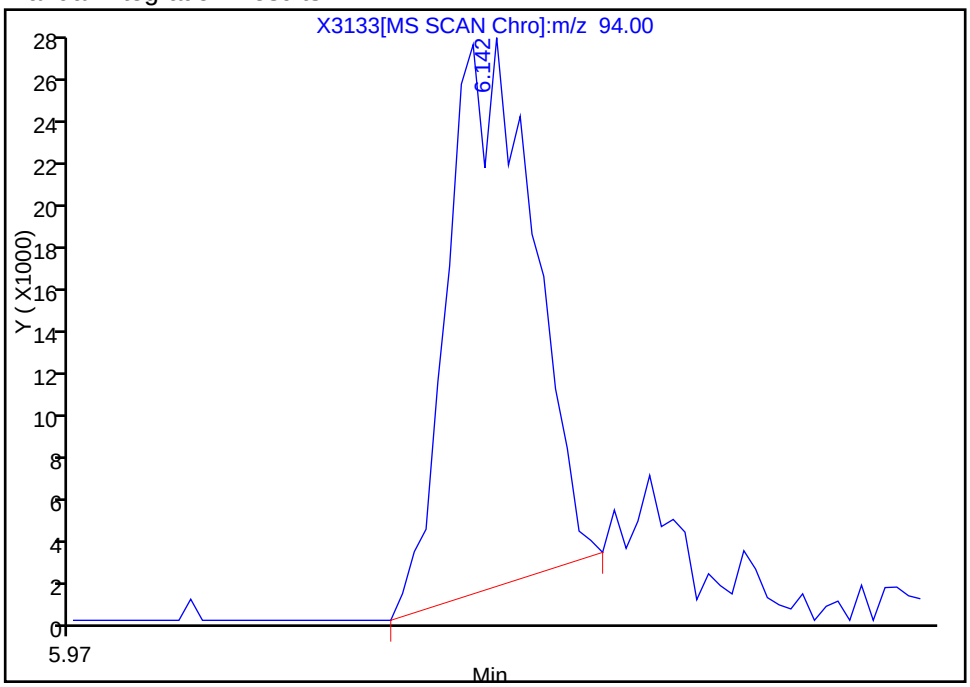
Processing Integration Results

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

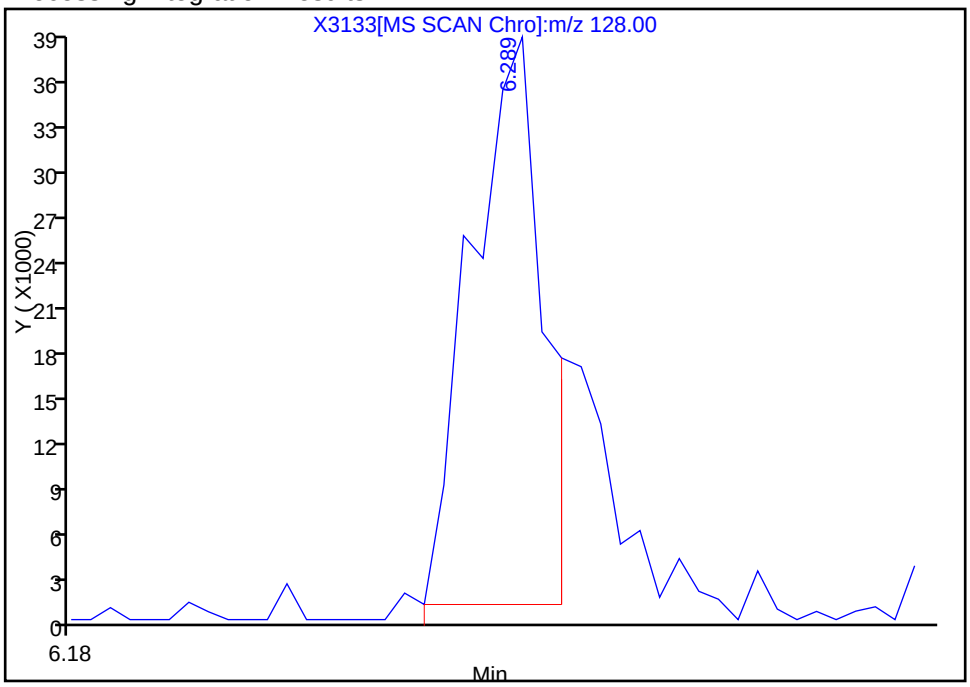
TestAmerica Buffalo

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

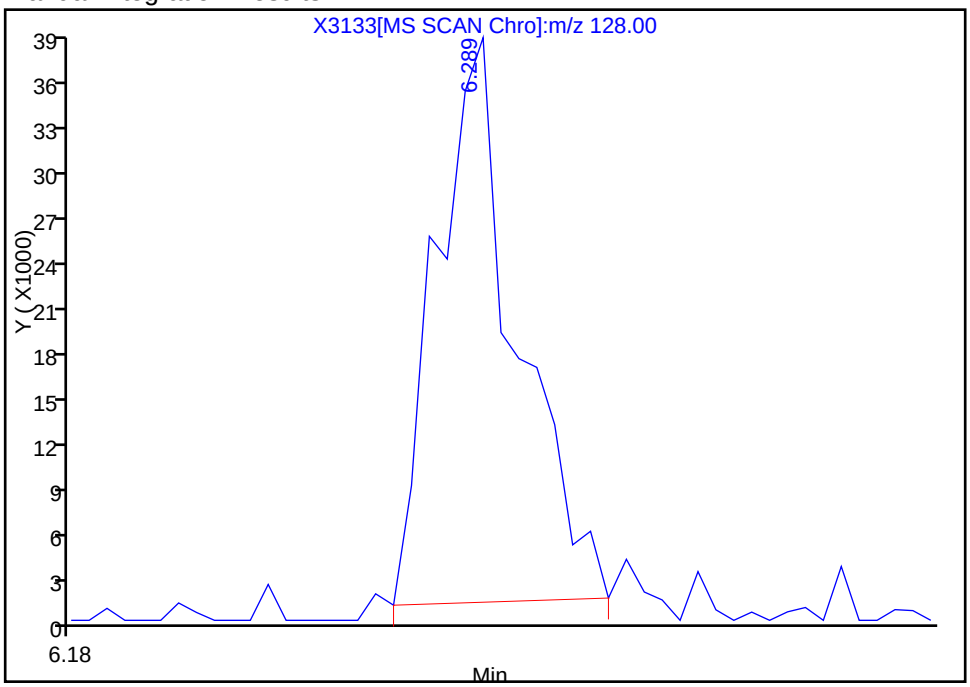
Processing Integration Results

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
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

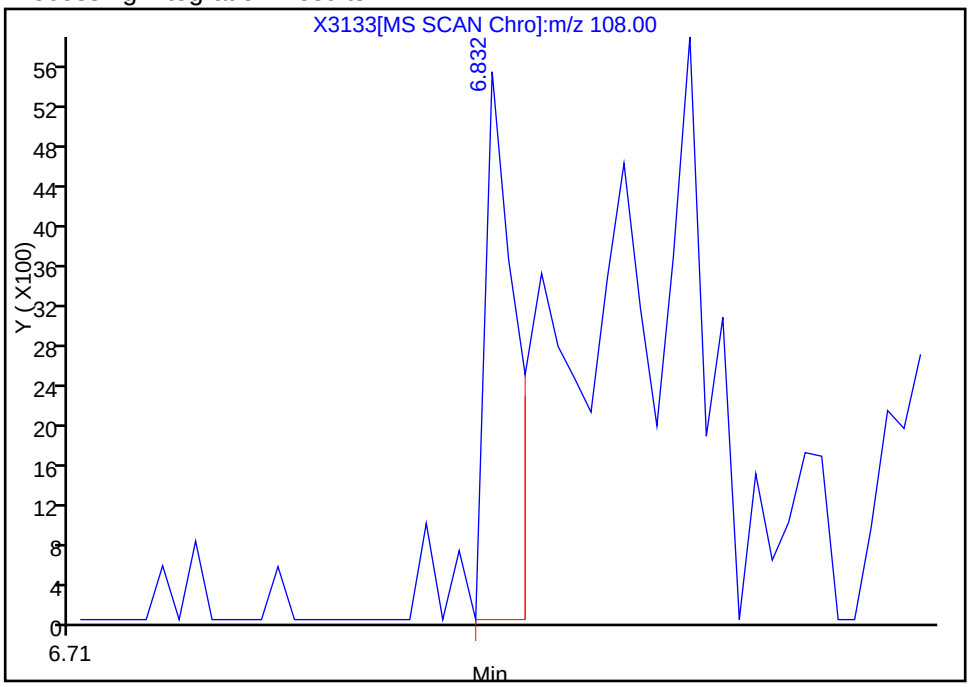
TestAmerica Buffalo

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

28 Benzyl alcohol, Signal: 1, m/z: 108.0 Type: quant, RT: 6.85

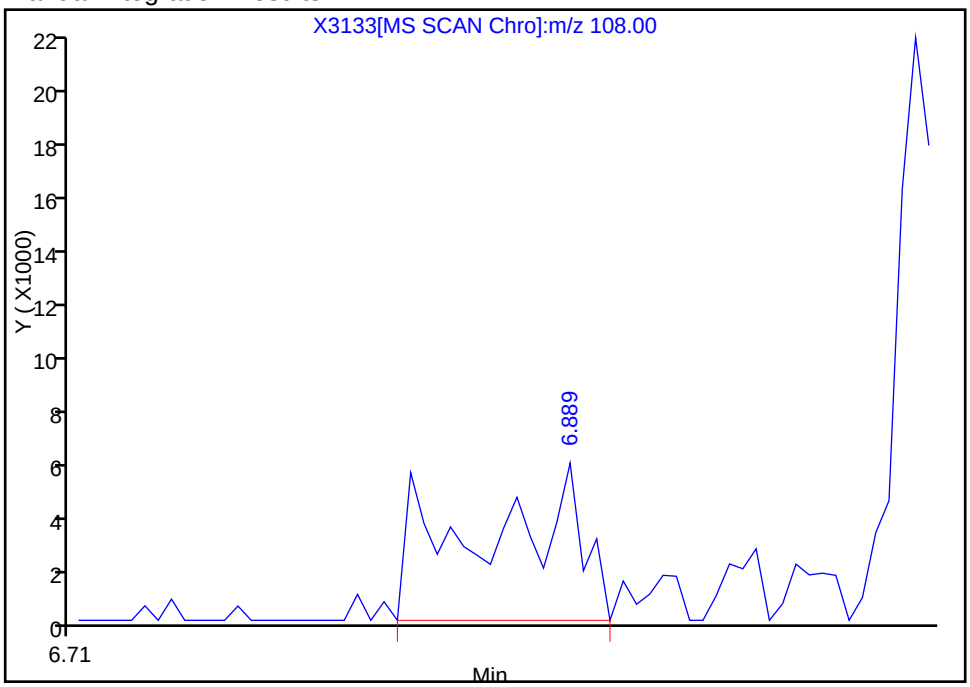
Processing Integration Results

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

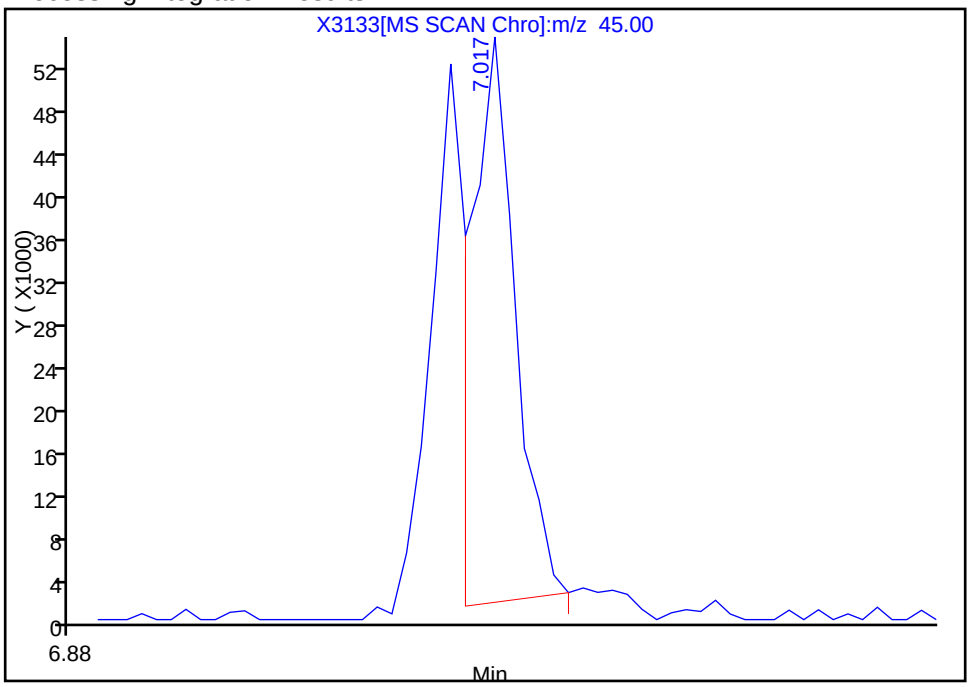
TestAmerica Buffalo

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

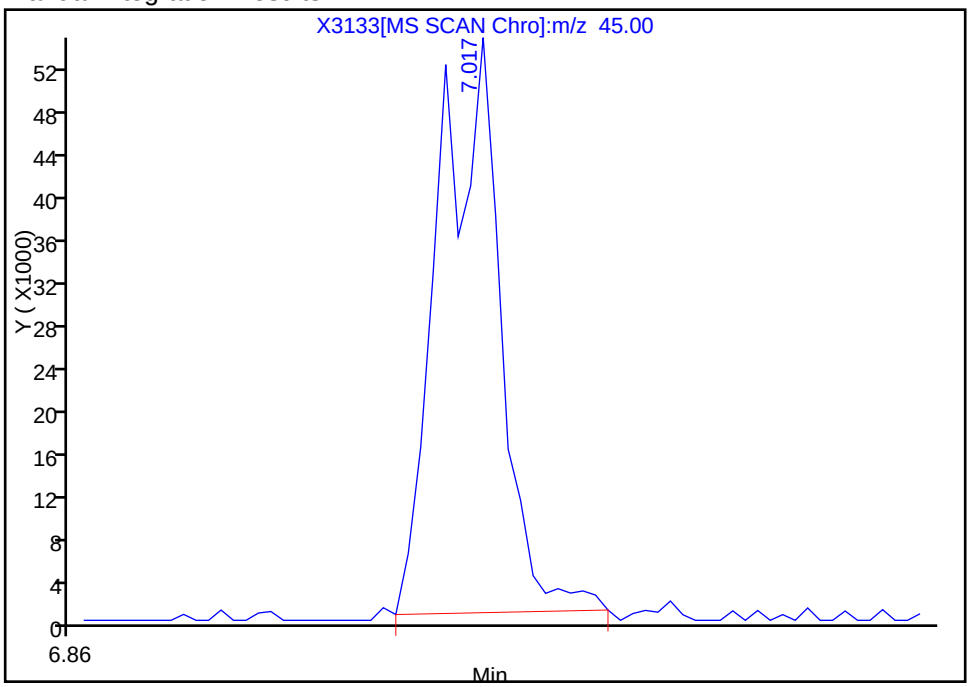
Processing Integration Results

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
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

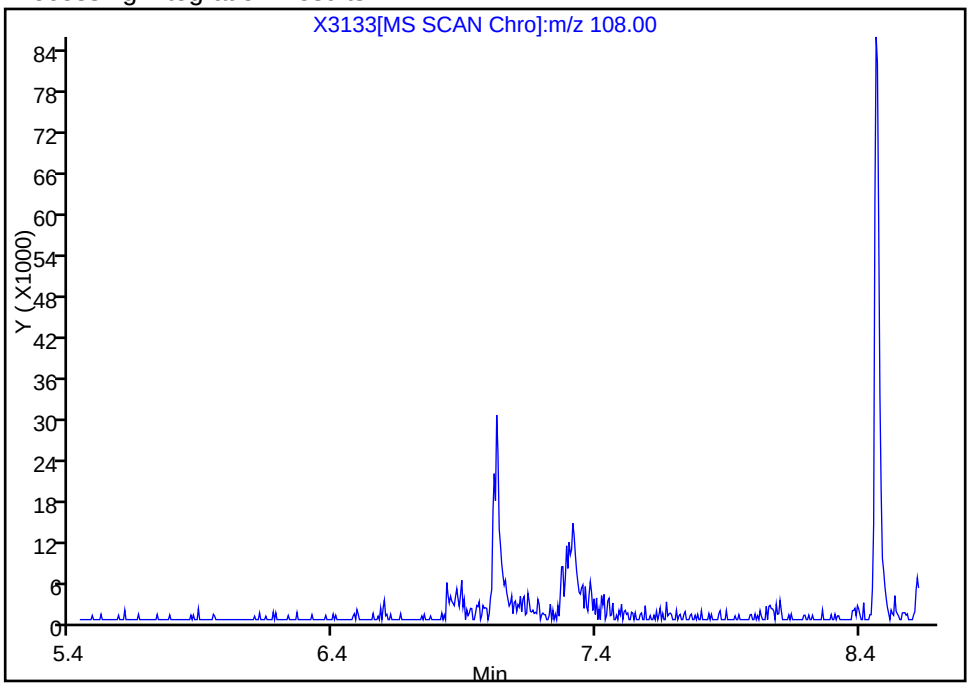
TestAmerica Buffalo

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

31 2-Methylphenol, Signal: 1, m/z: 108.0 Type: quant, RT: 7.03

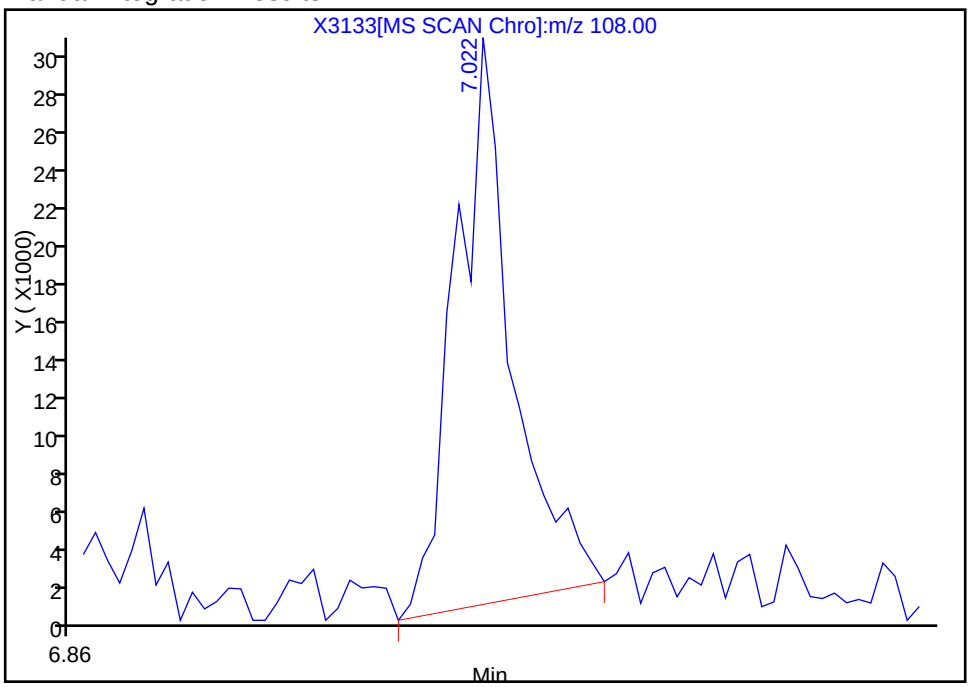
Processing Integration Results

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
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

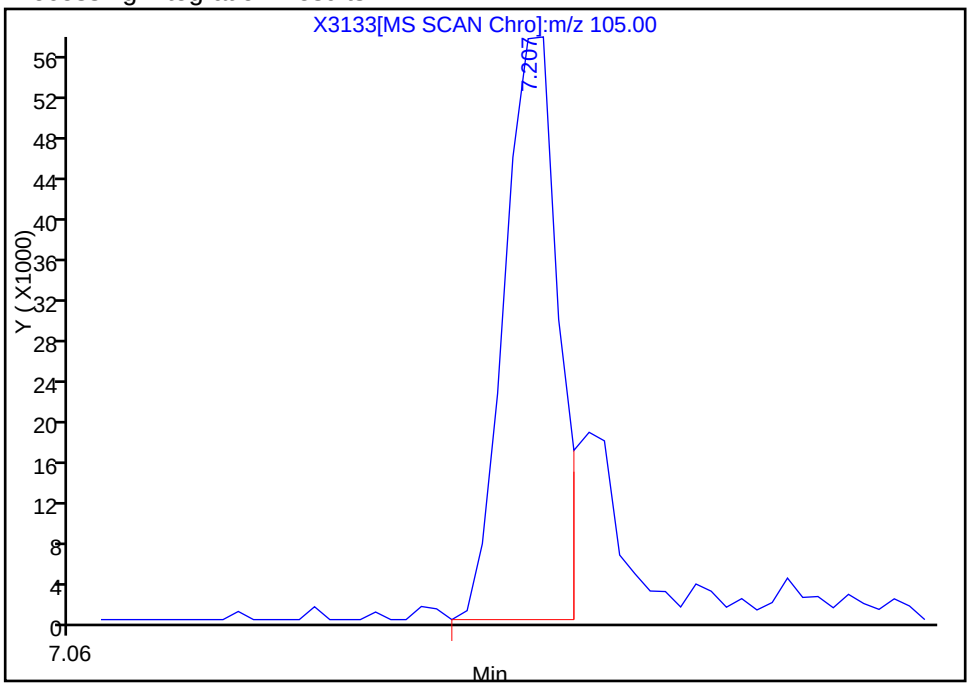
TestAmerica Buffalo

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

33 Acetophenone, Signal: 1, m/z: 105.0 Type: quant, RT: 7.21

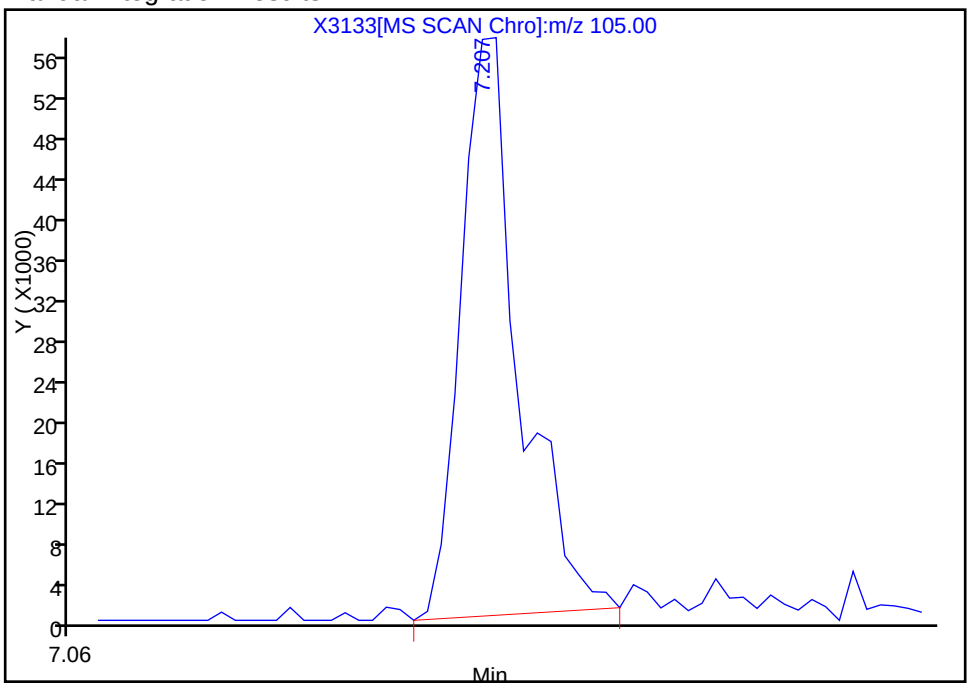
Processing Integration Results

RT: 7.21
Response: 67490
Amount: 1.080890



Manual Integration Results

RT: 7.21
Response: 79952
Amount: 0.915491



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

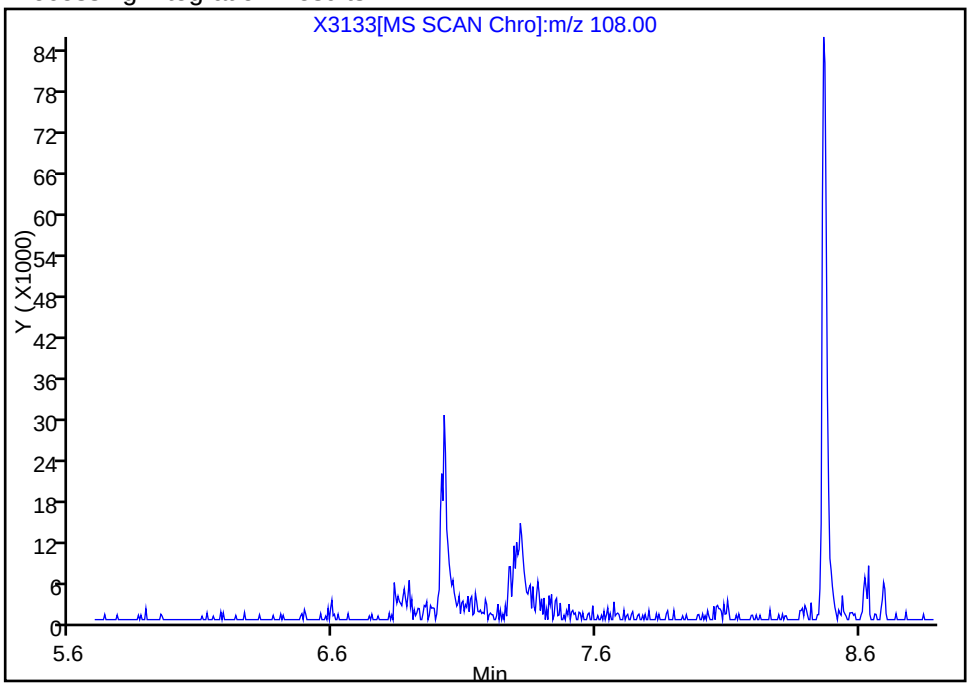
TestAmerica Buffalo

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

36 4-Methylphenol, Signal: 1, m/z: 108.0 Type: quant, RT: 7.29

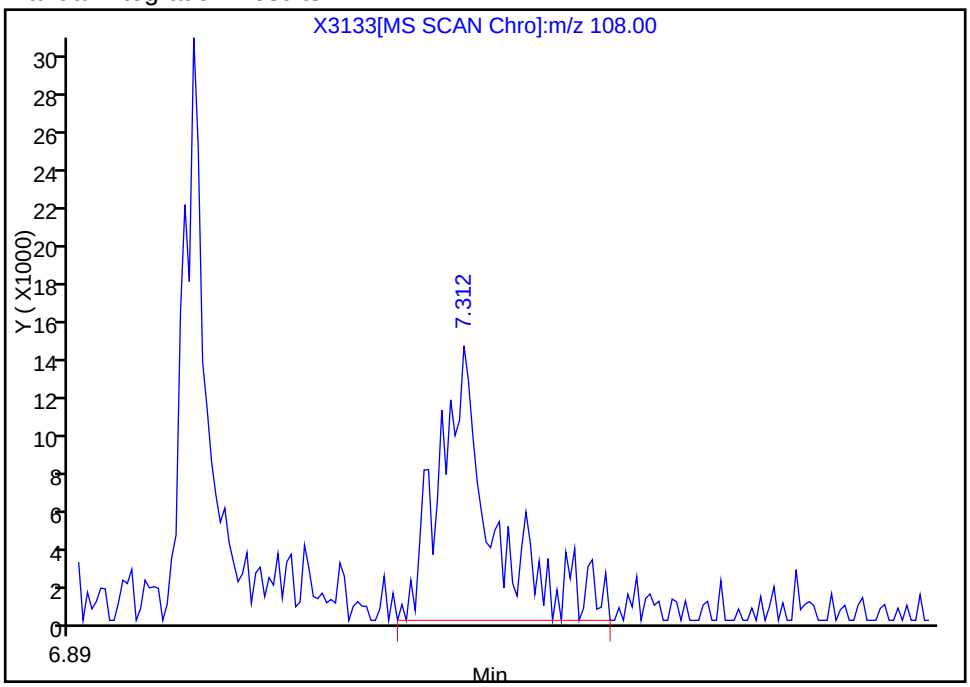
Processing Integration Results

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

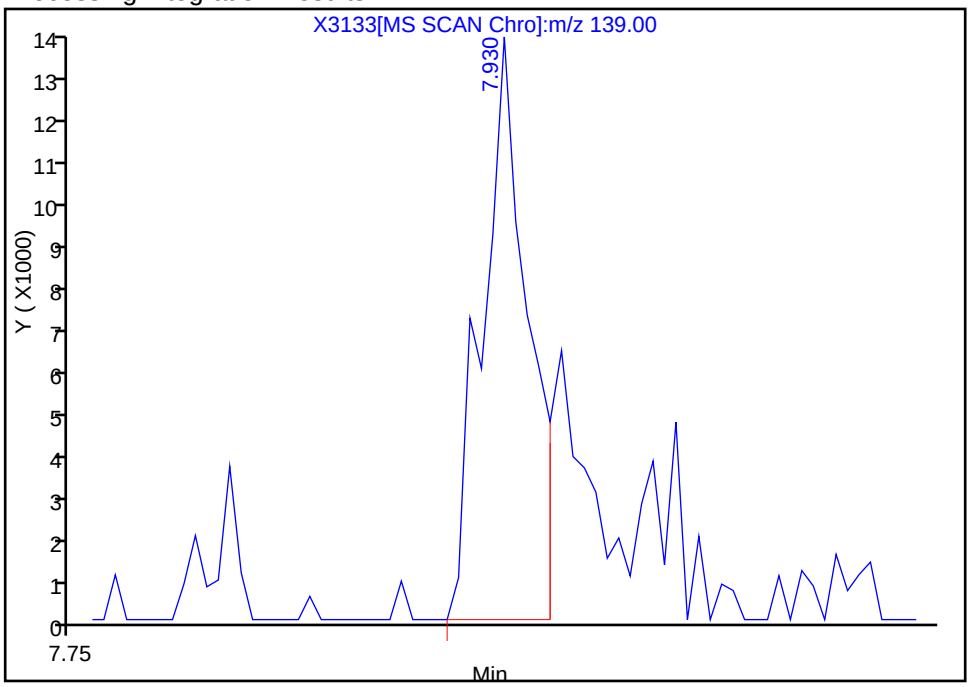
TestAmerica Buffalo

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

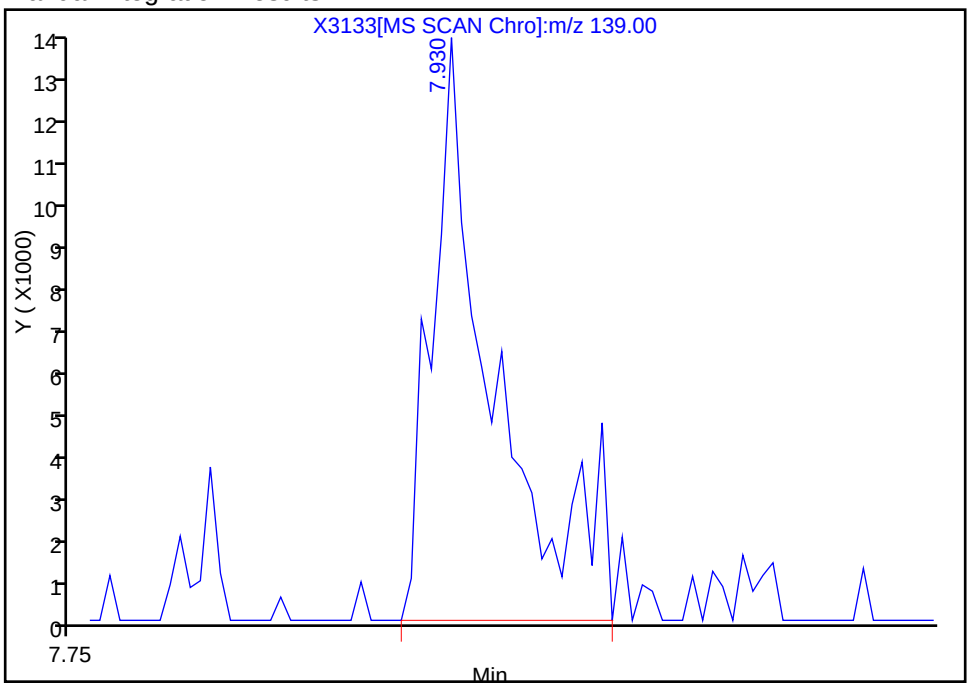
Processing Integration Results

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

Manual Integration/User Assign Peak Report

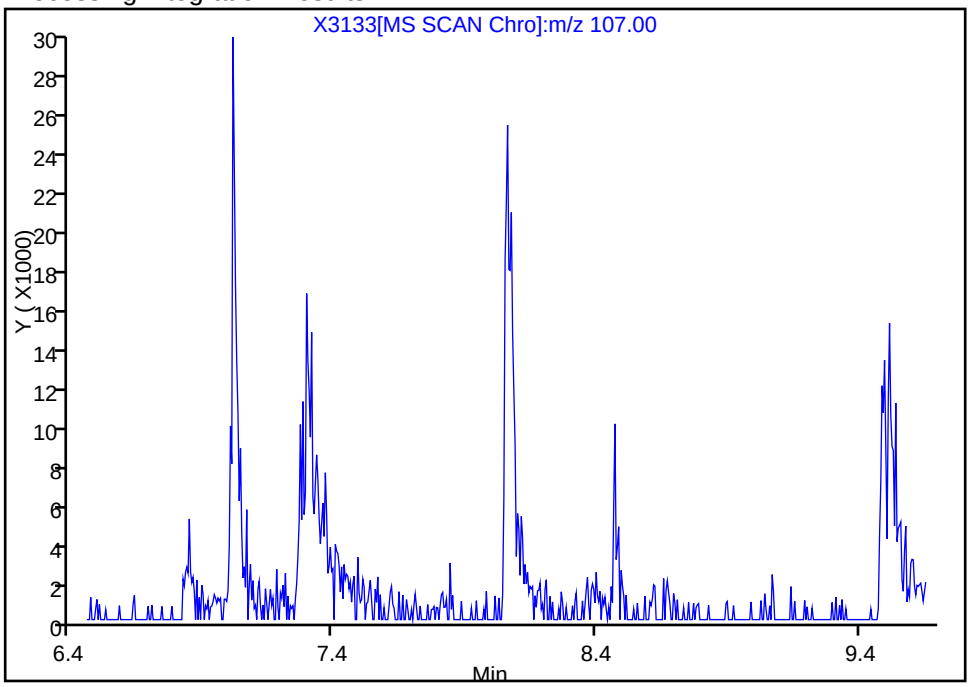
TestAmerica Buffalo

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

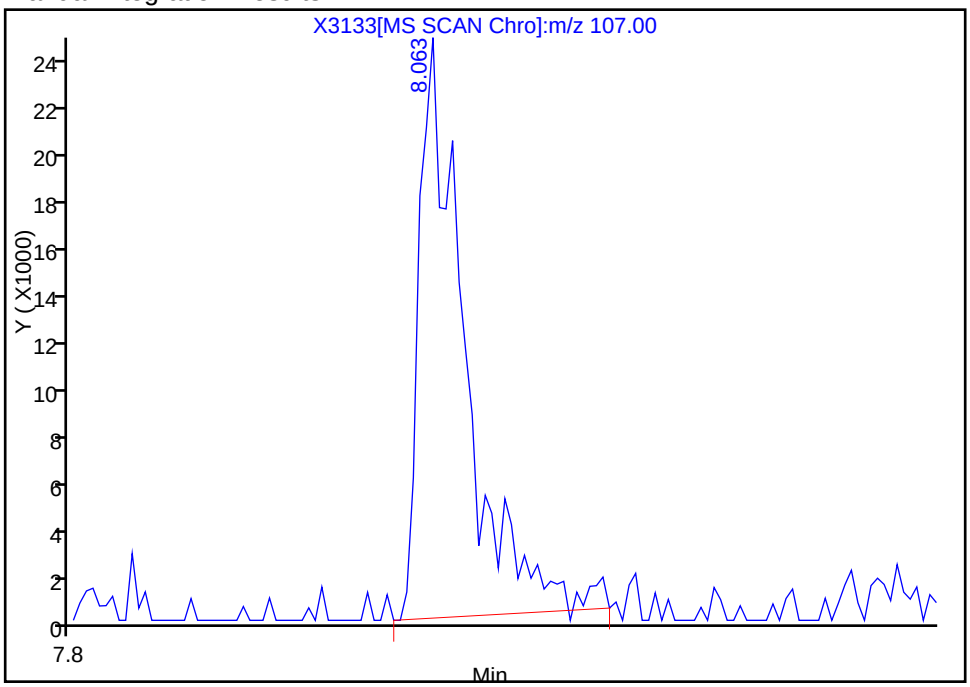
Processing Integration Results

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

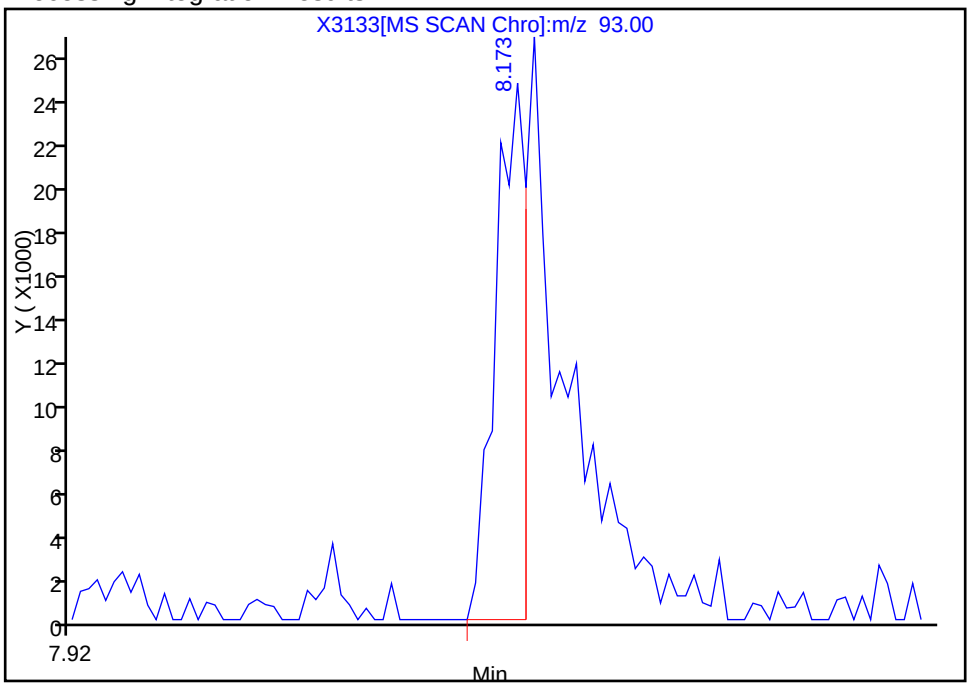
TestAmerica Buffalo

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

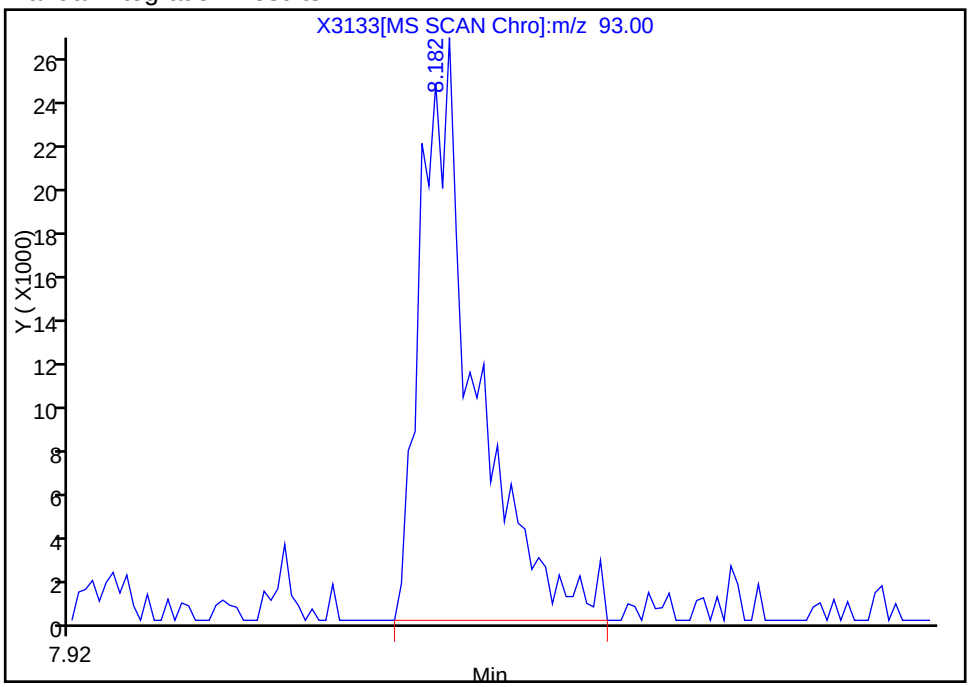
Processing Integration Results

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

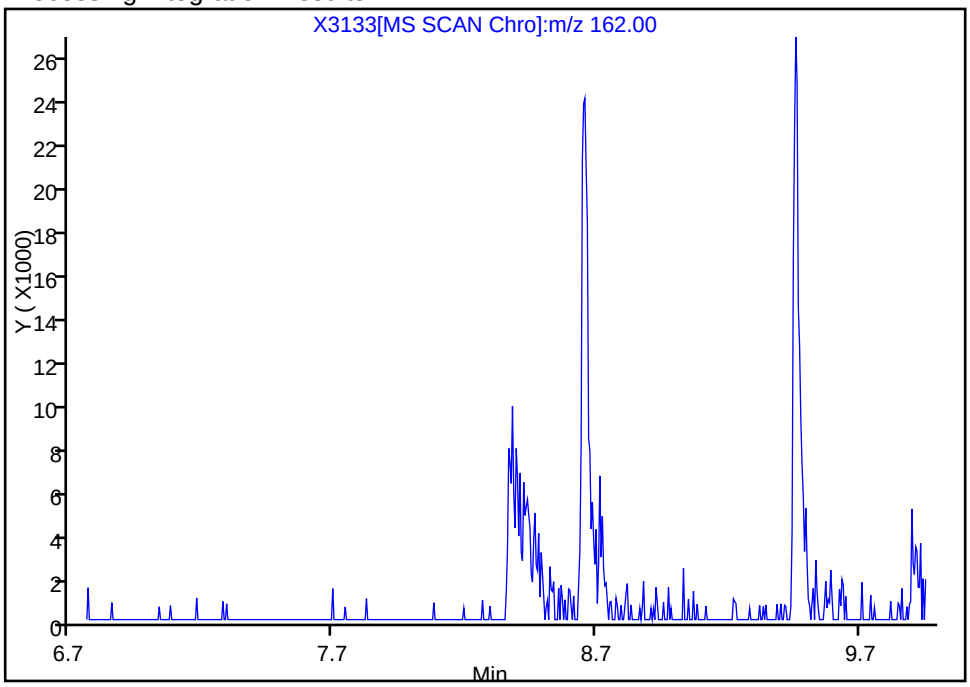
TestAmerica Buffalo

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

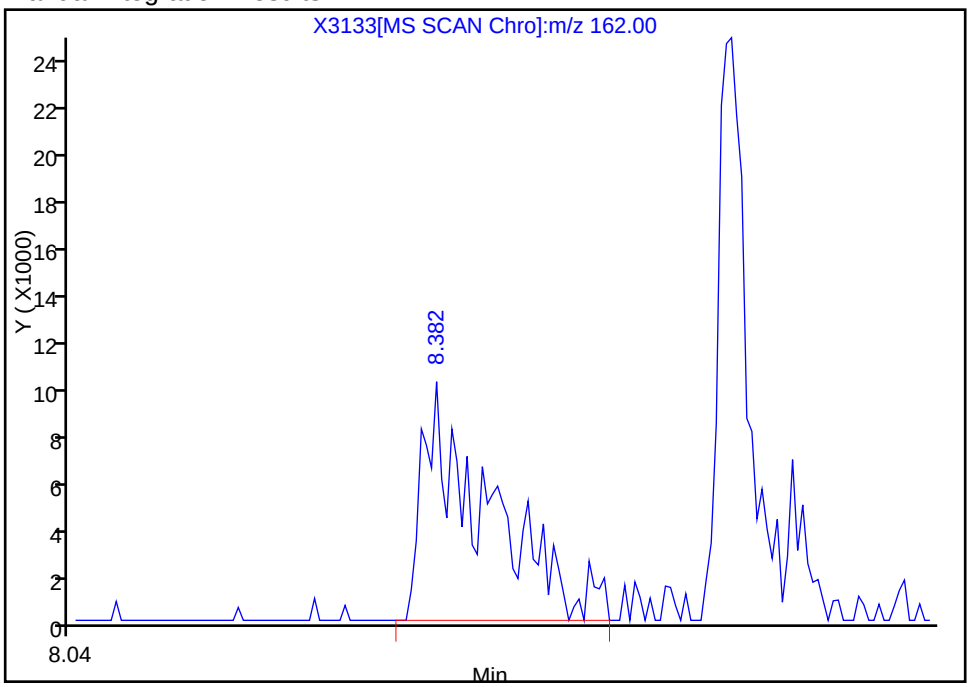
Processing Integration Results

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

Report Date: 18-Dec-2012 16:43:03 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

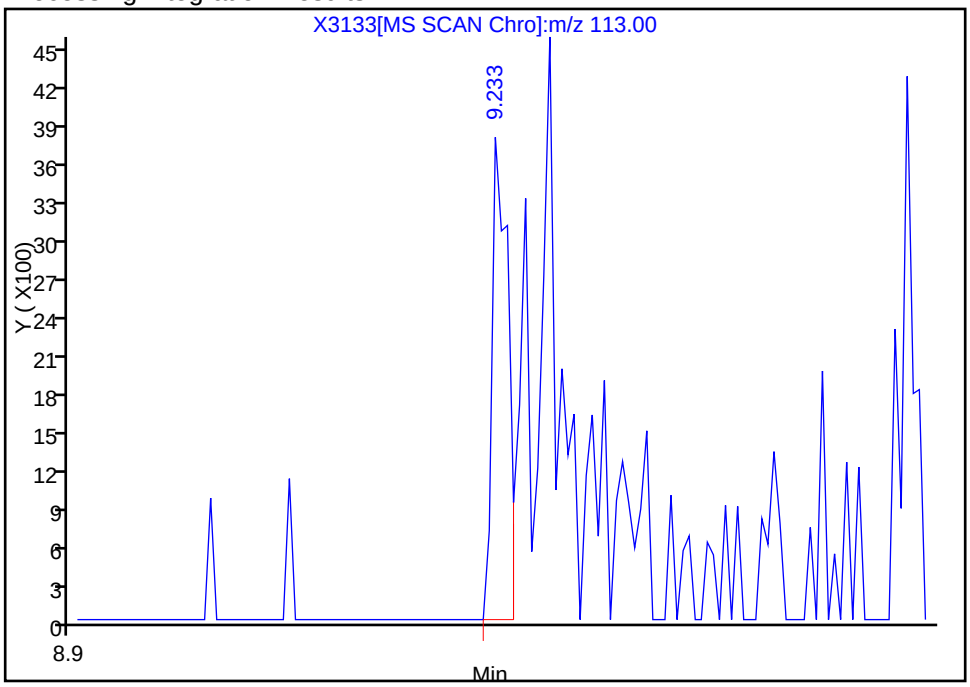
TestAmerica Buffalo

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

54 Caprolactam, Signal: 1, m/z: 113.0 Type: quant, RT: 9.21

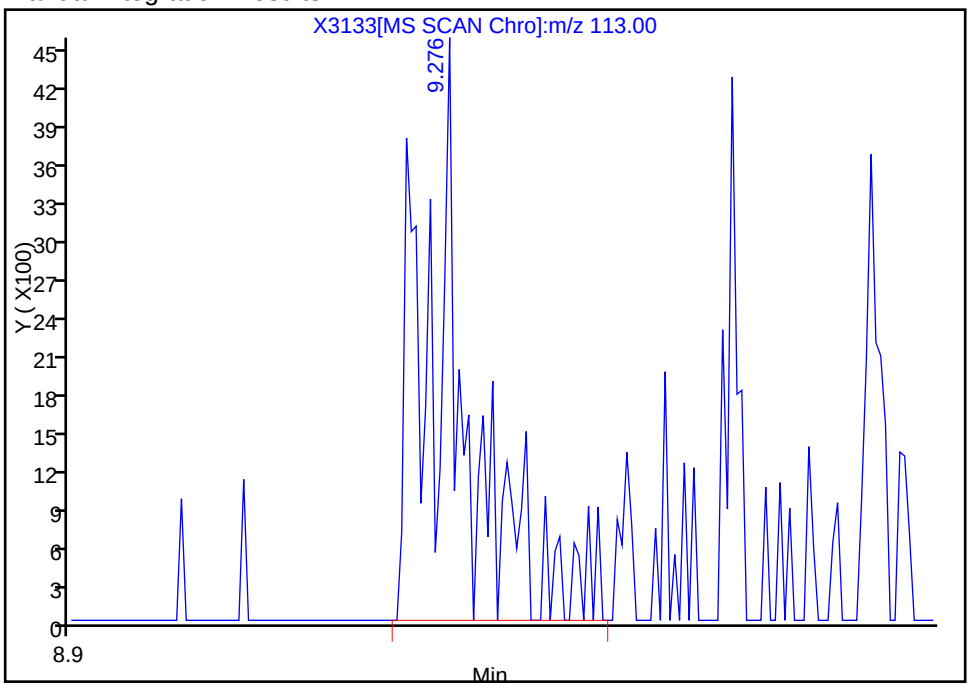
Processing Integration Results

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

Report Date: 18-Dec-2012 16:43:03 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

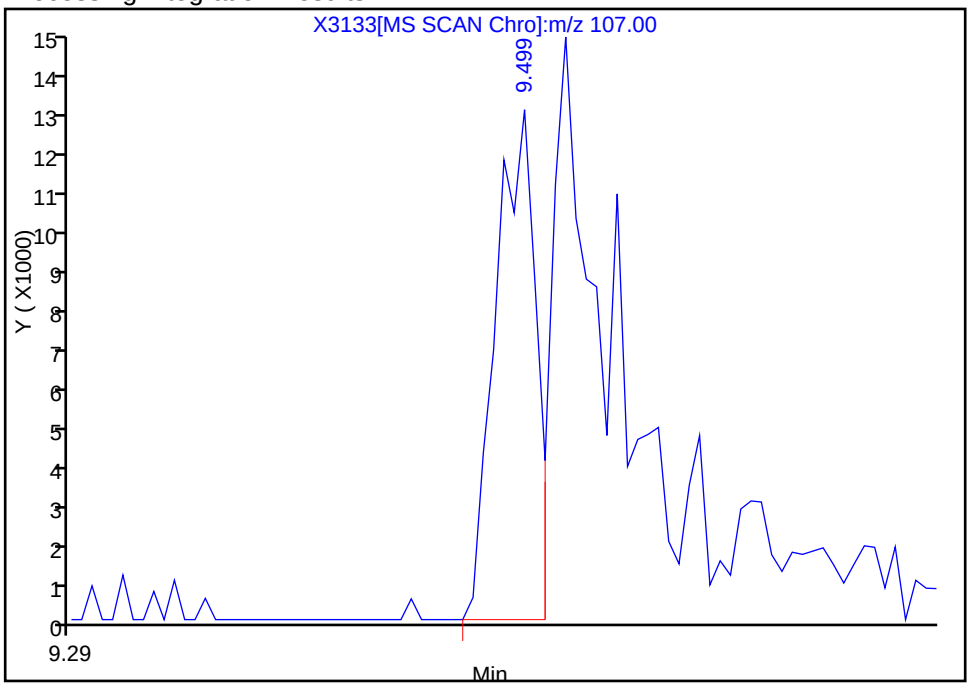
TestAmerica Buffalo

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

55 4-Chloro-3-methylphenol, Signal: 1, m/z: 107.0 Type: quant, RT: 9.47

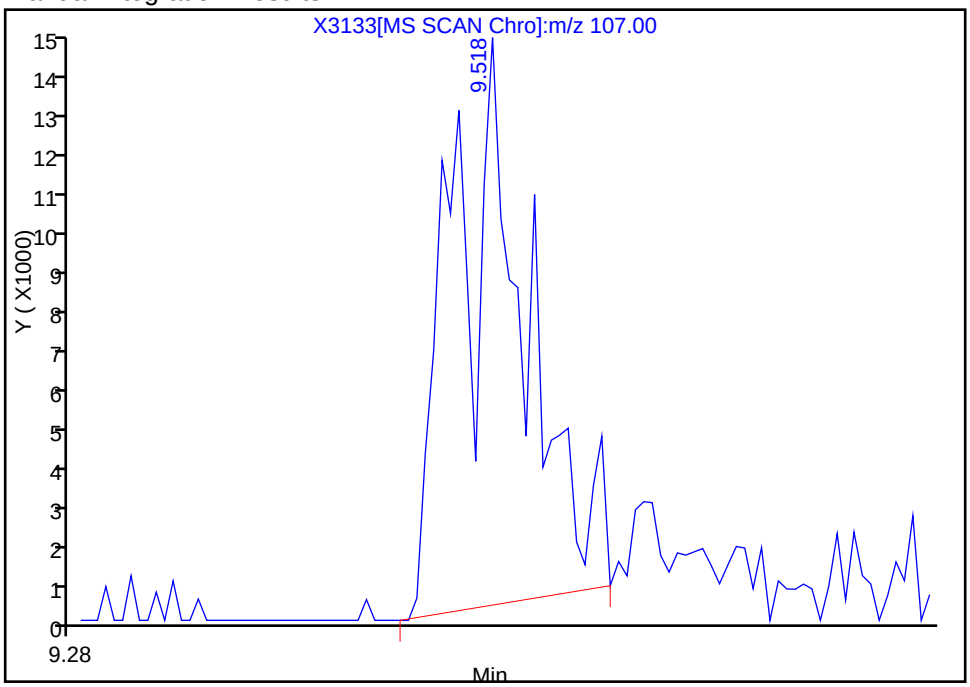
Processing Integration Results

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

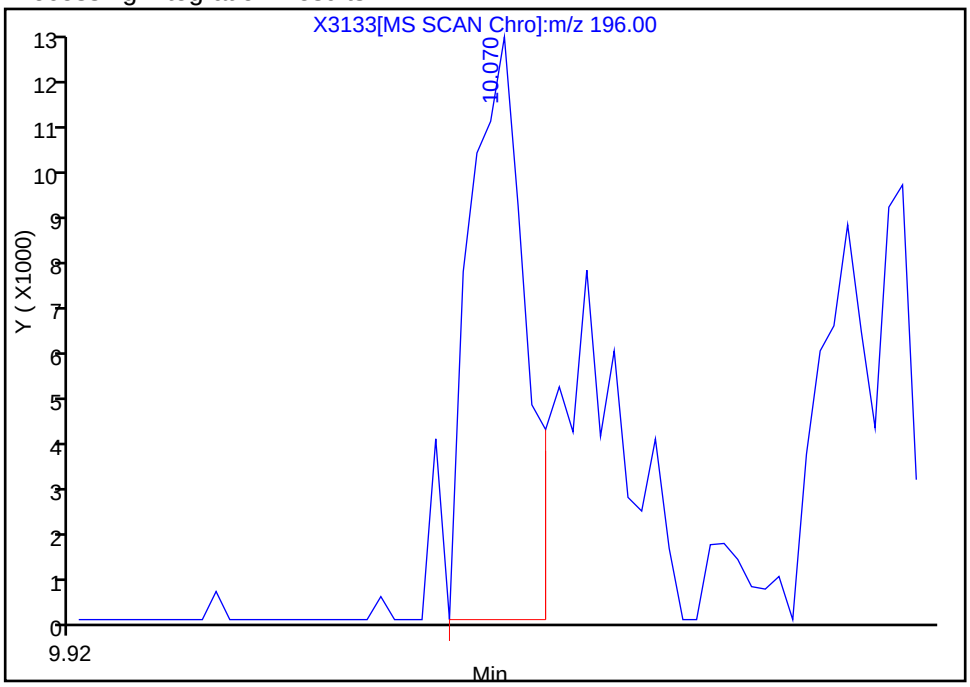
TestAmerica Buffalo

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

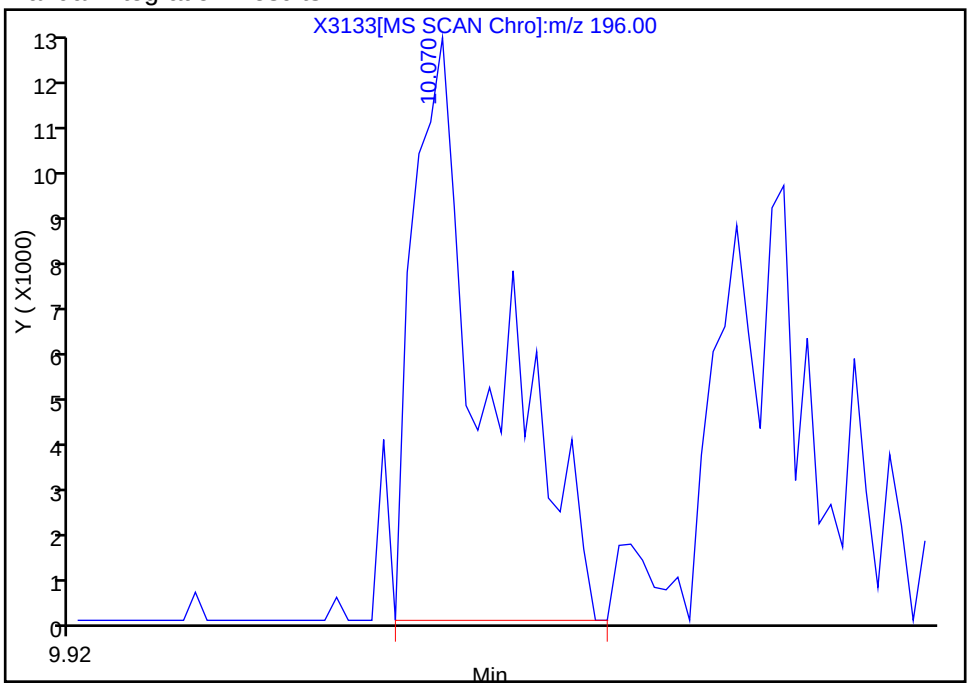
Processing Integration Results

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

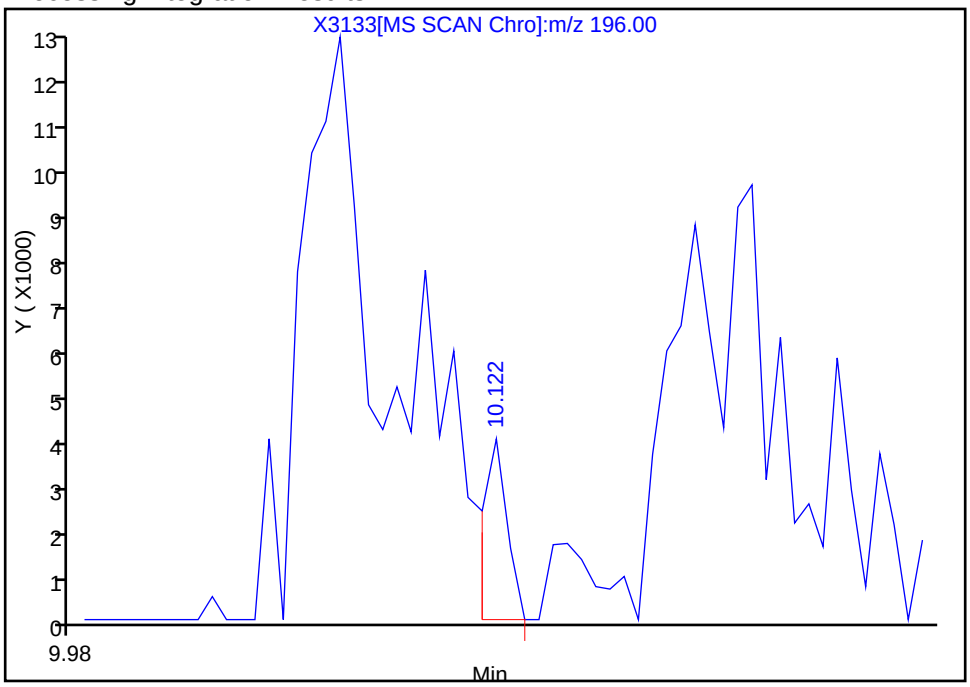
TestAmerica Buffalo

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

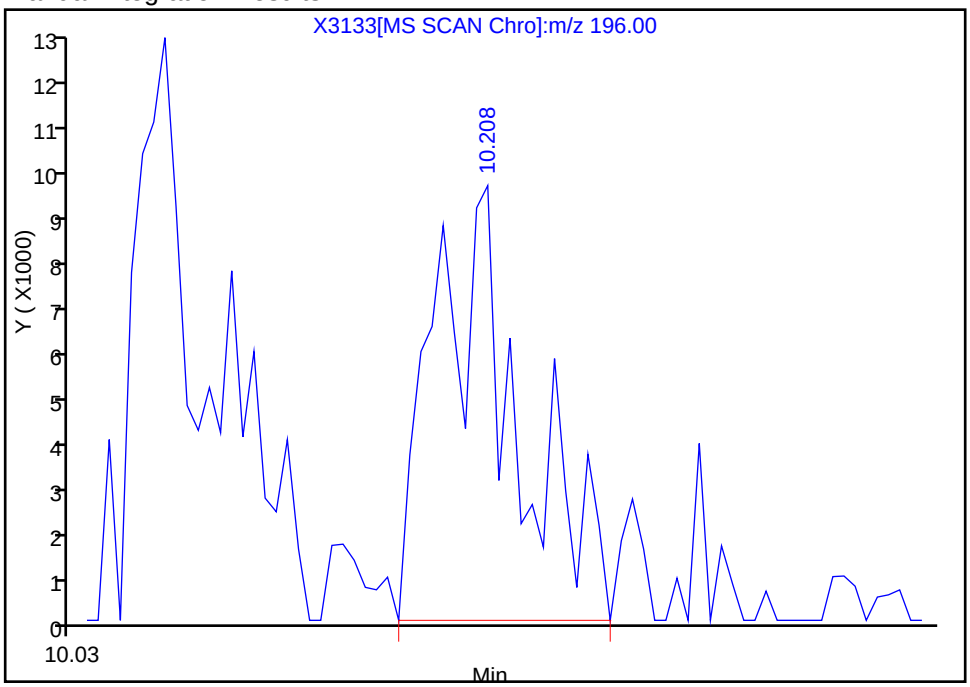
Processing Integration Results

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

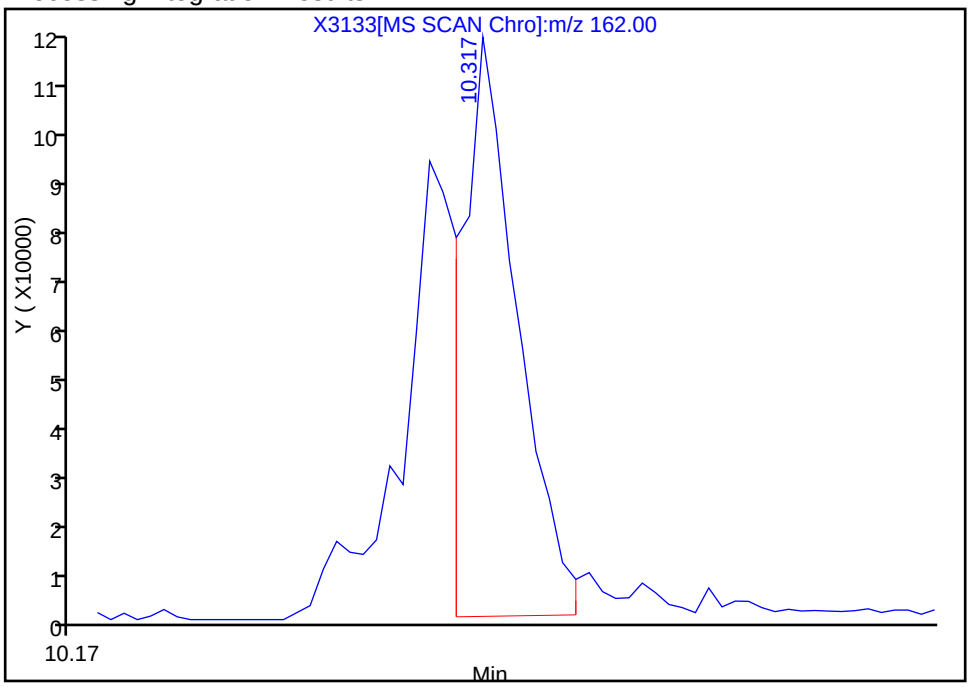
TestAmerica Buffalo

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

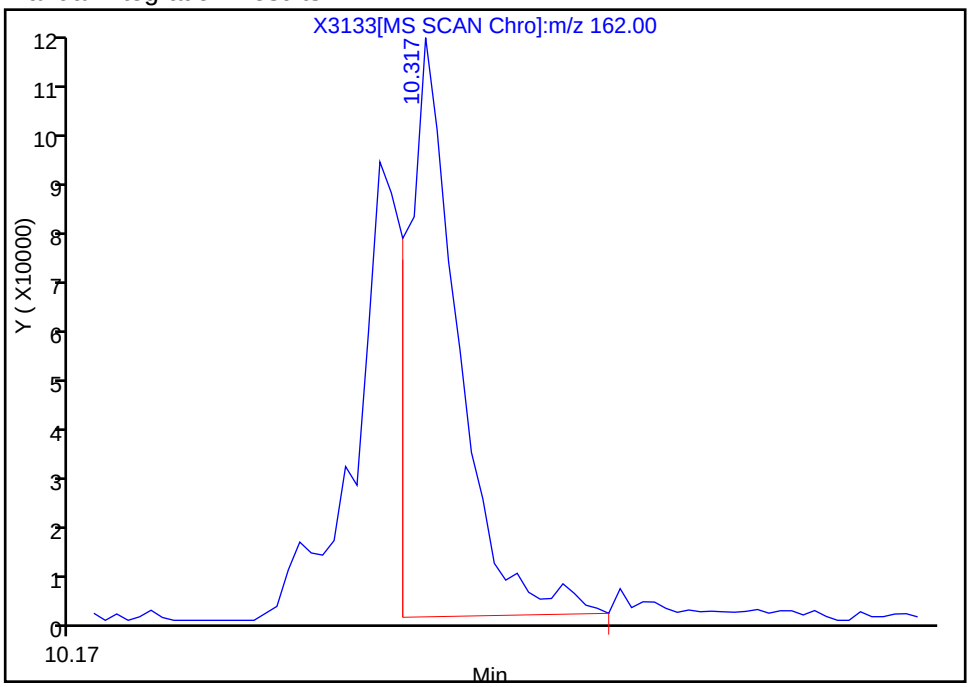
Processing Integration Results

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

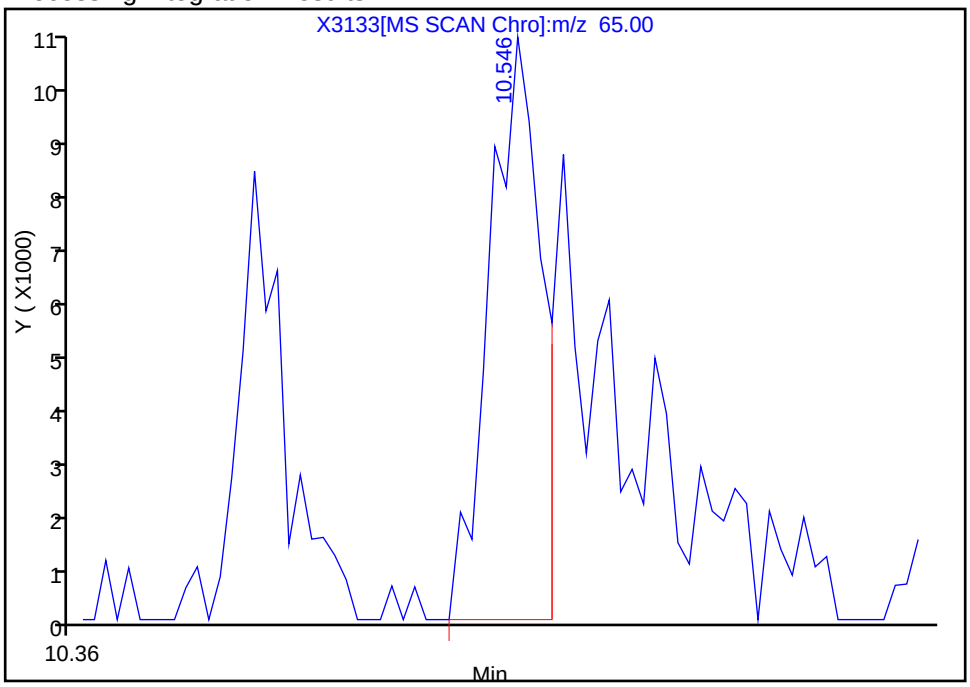
TestAmerica Buffalo

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

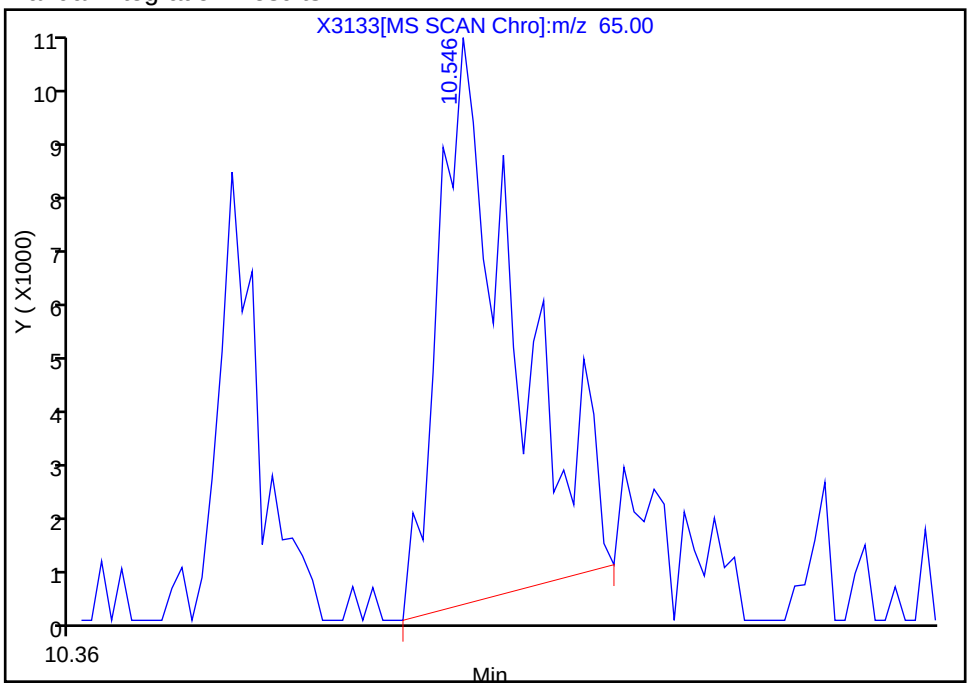
Processing Integration Results

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

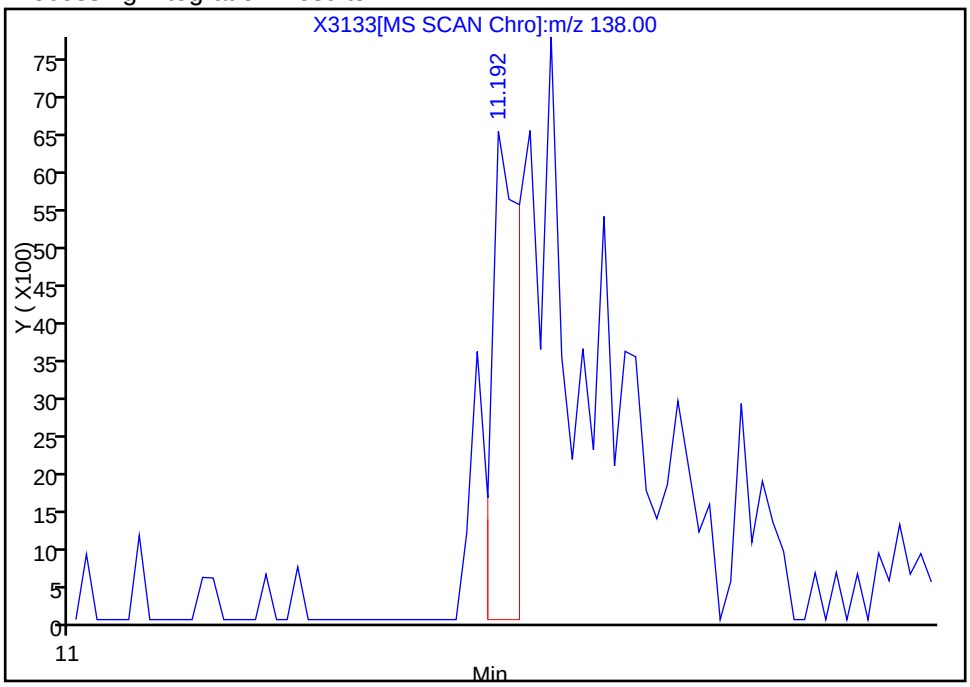
TestAmerica Buffalo

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

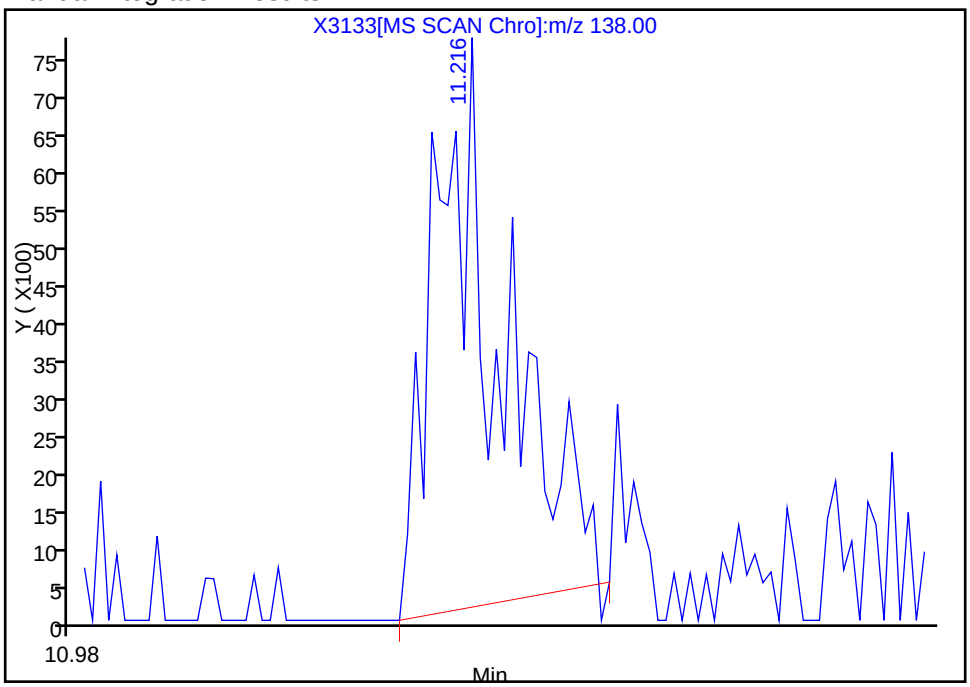
Processing Integration Results

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

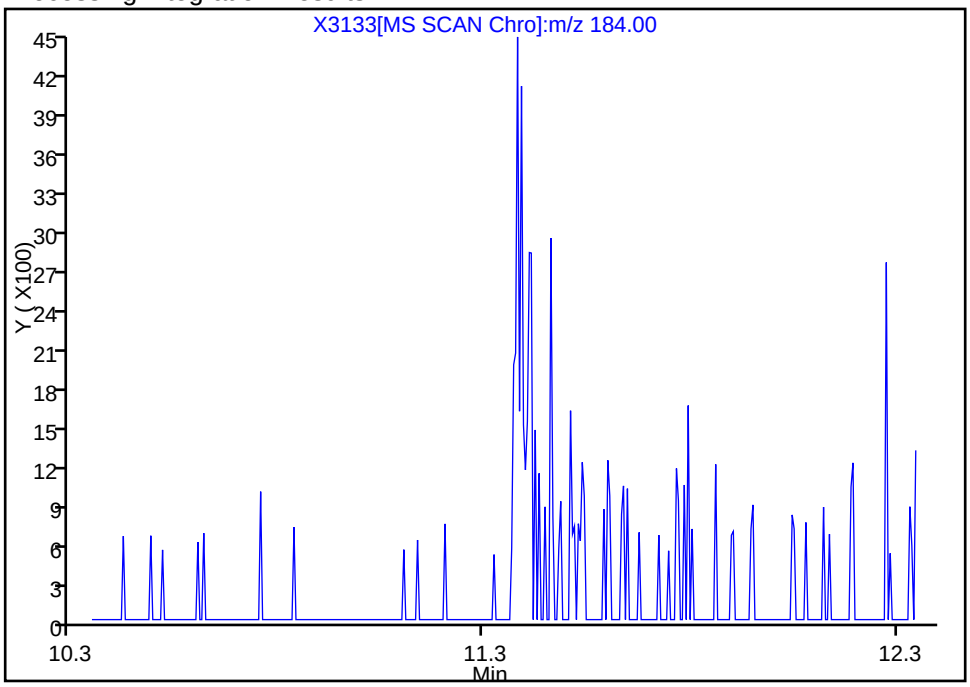
TestAmerica Buffalo

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

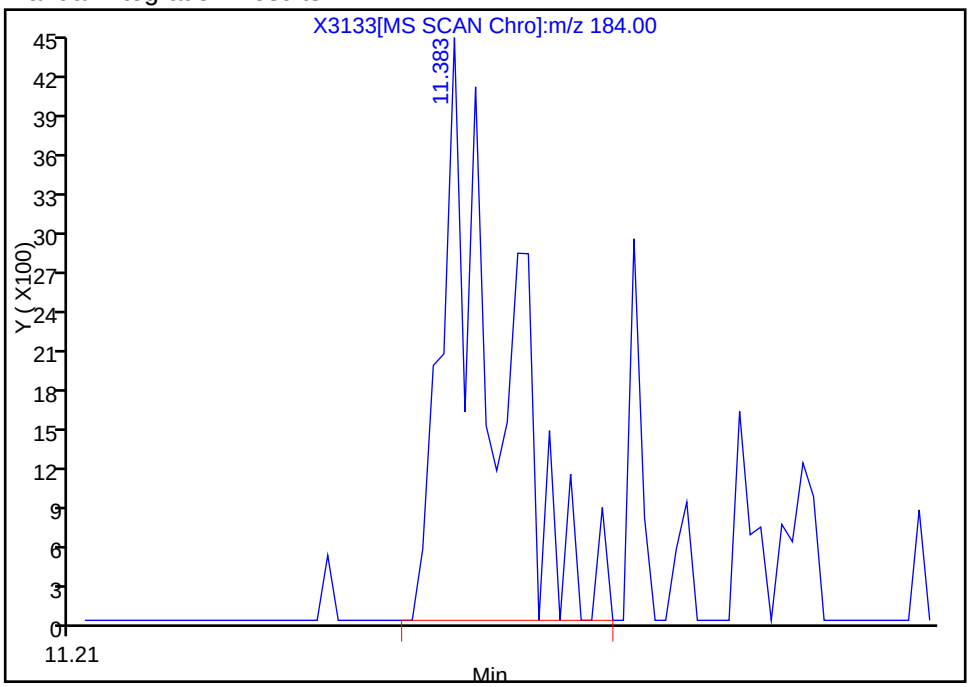
Processing Integration Results

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

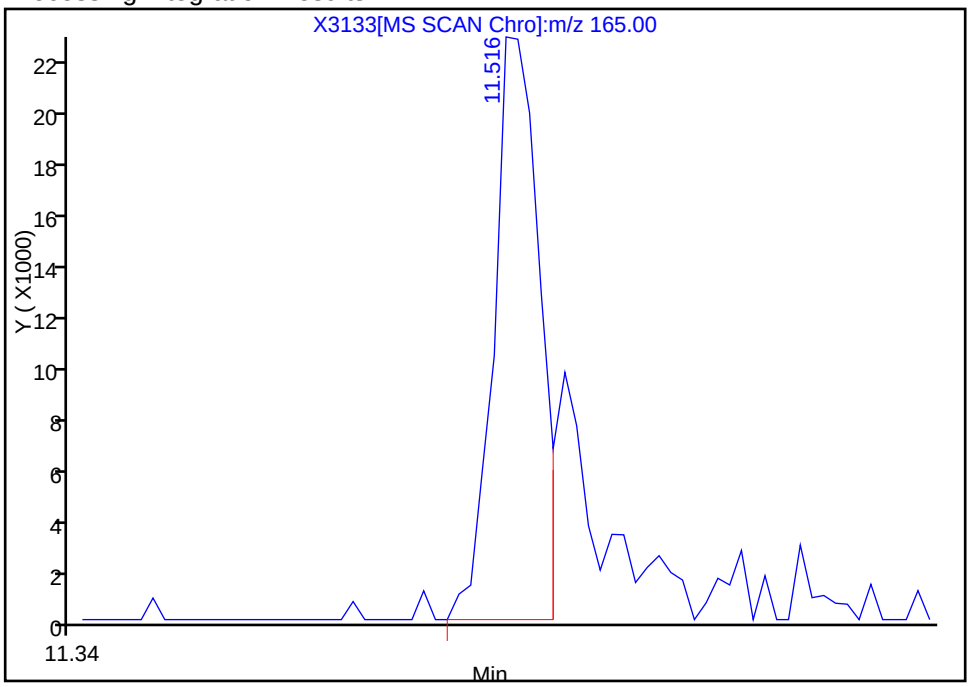
TestAmerica Buffalo

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

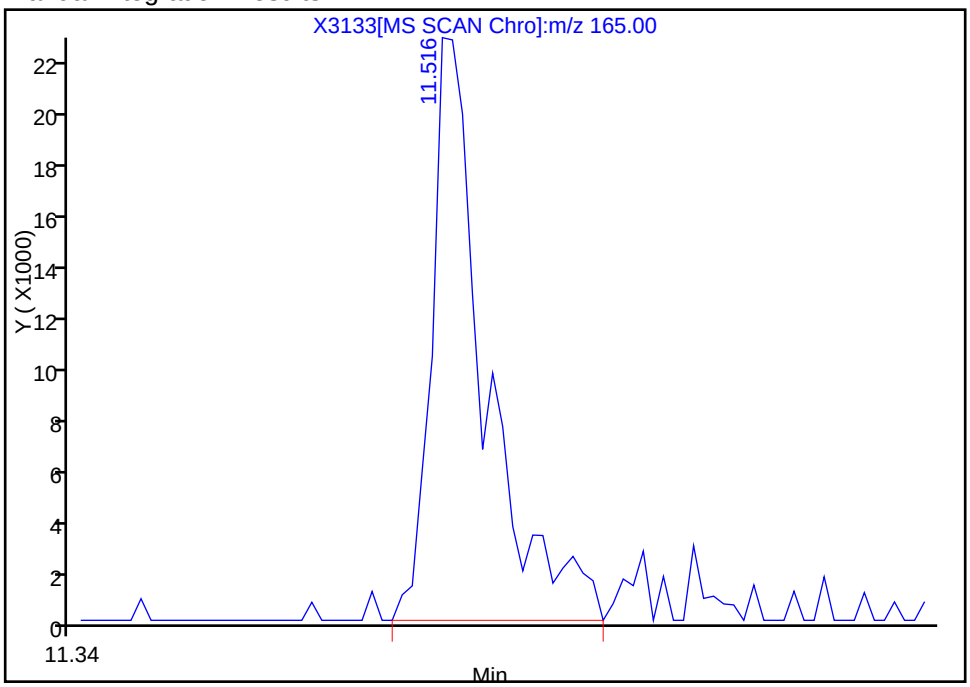
Processing Integration Results

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

Report Date: 18-Dec-2012 16:43:03 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

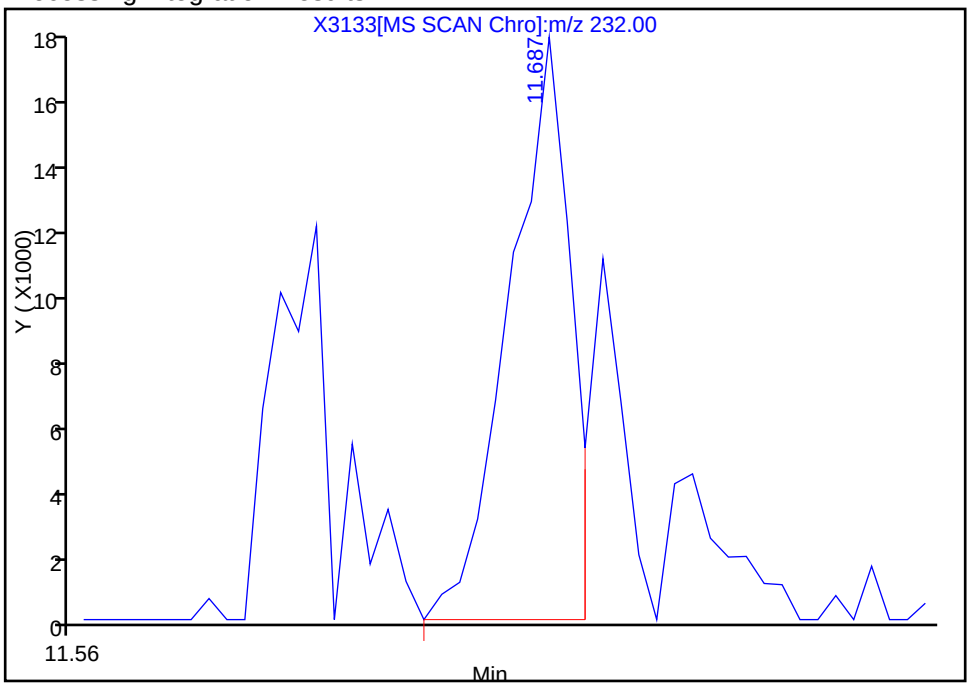
TestAmerica Buffalo

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

76 2,3,4,6-Tetrachlorophenol, Signal: 1, m/z: 232.0 Type: quant, RT: 11.67

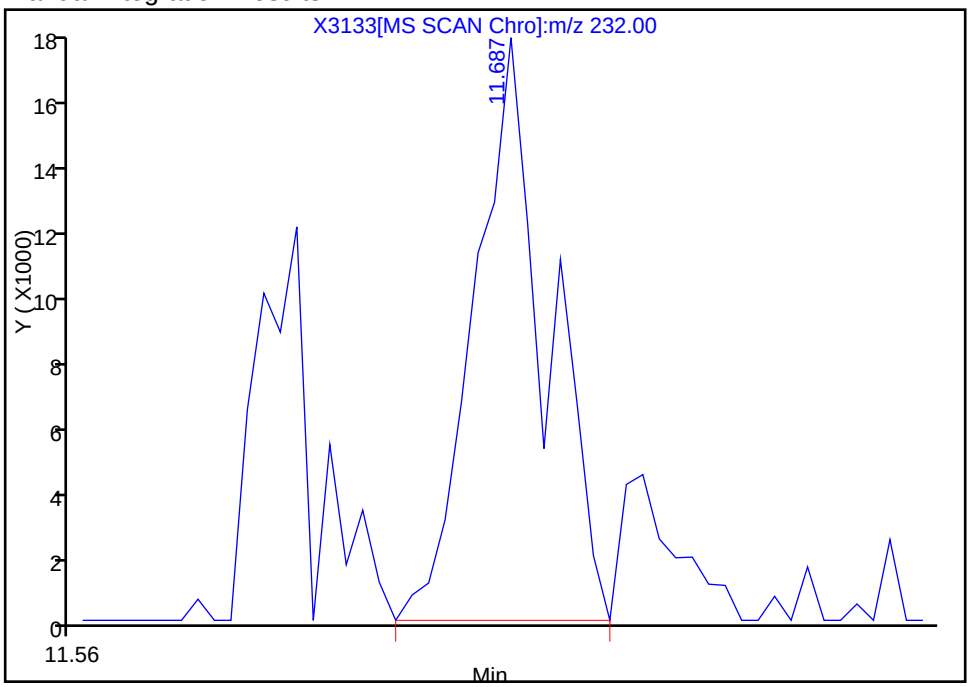
Processing Integration Results

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

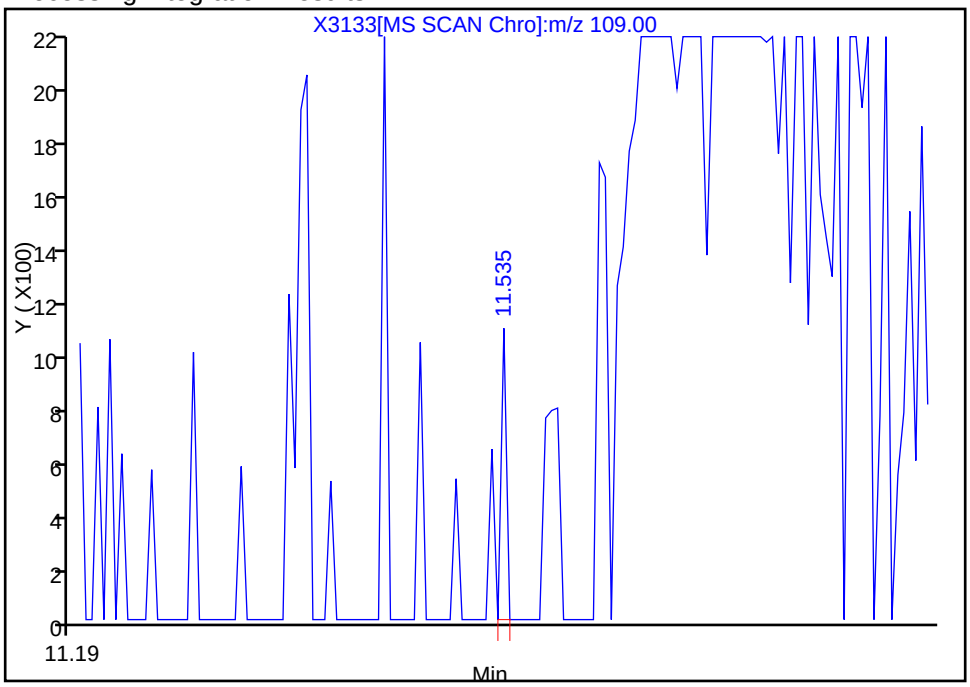
TestAmerica Buffalo

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

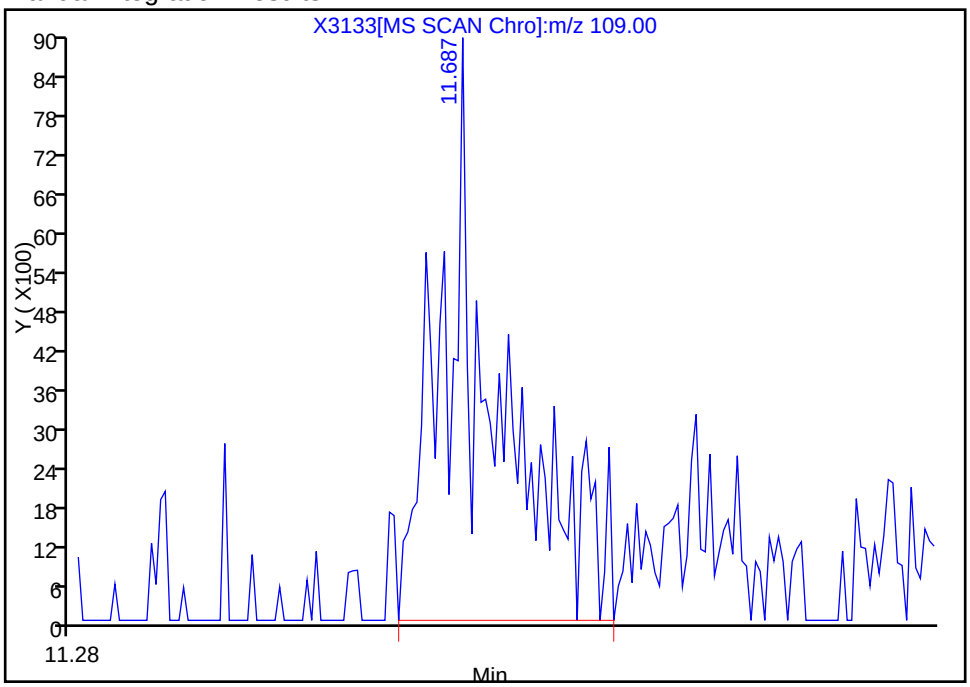
Processing Integration Results

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

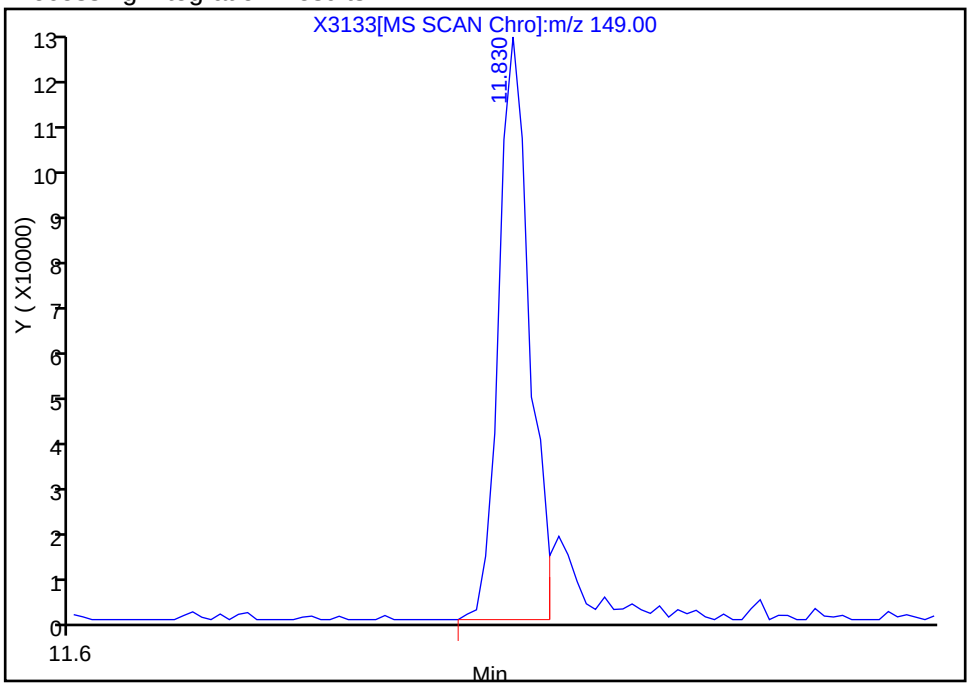
TestAmerica Buffalo

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

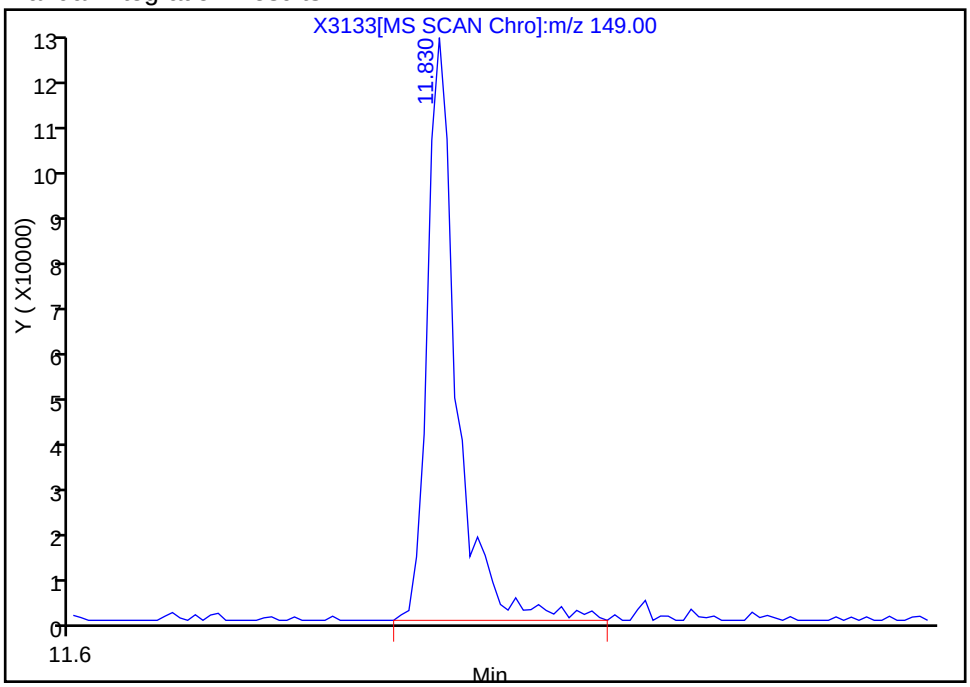
Processing Integration Results

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

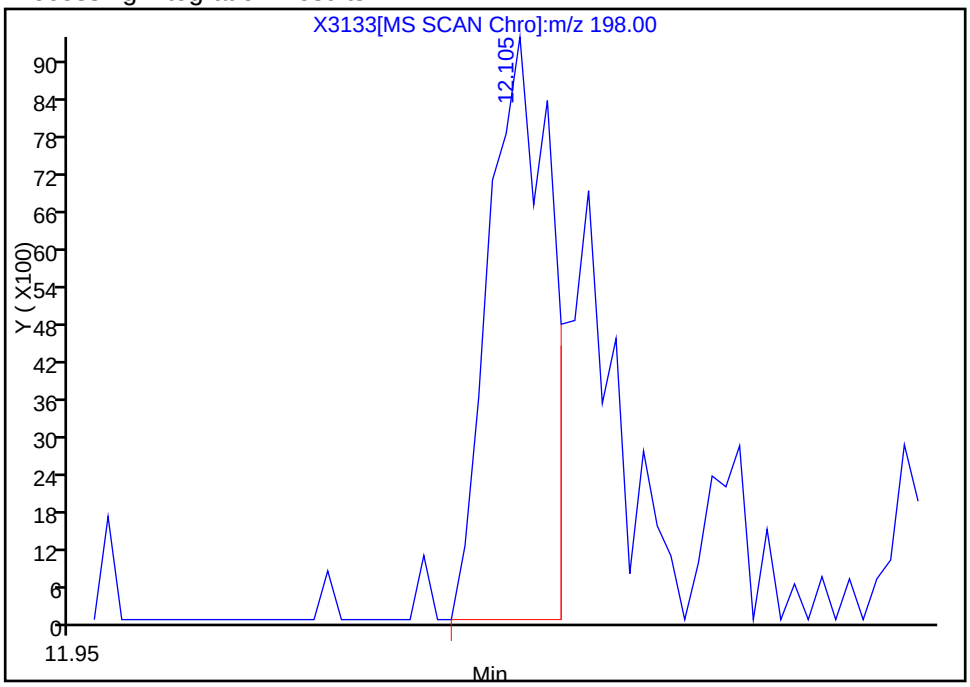
TestAmerica Buffalo

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

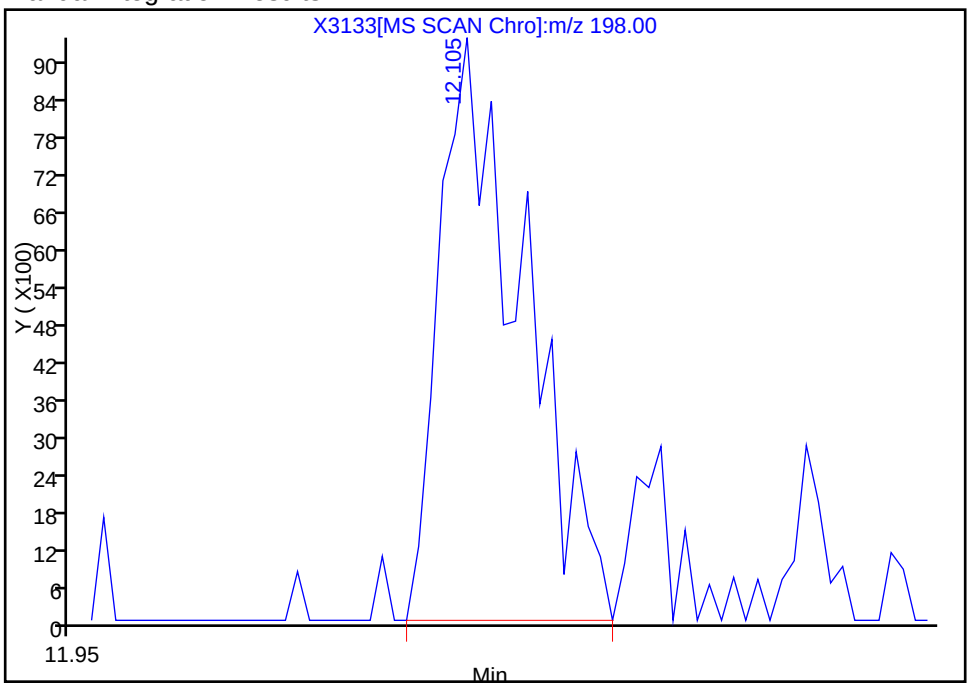
Processing Integration Results

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

Report Date: 18-Dec-2012 16:43:03 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

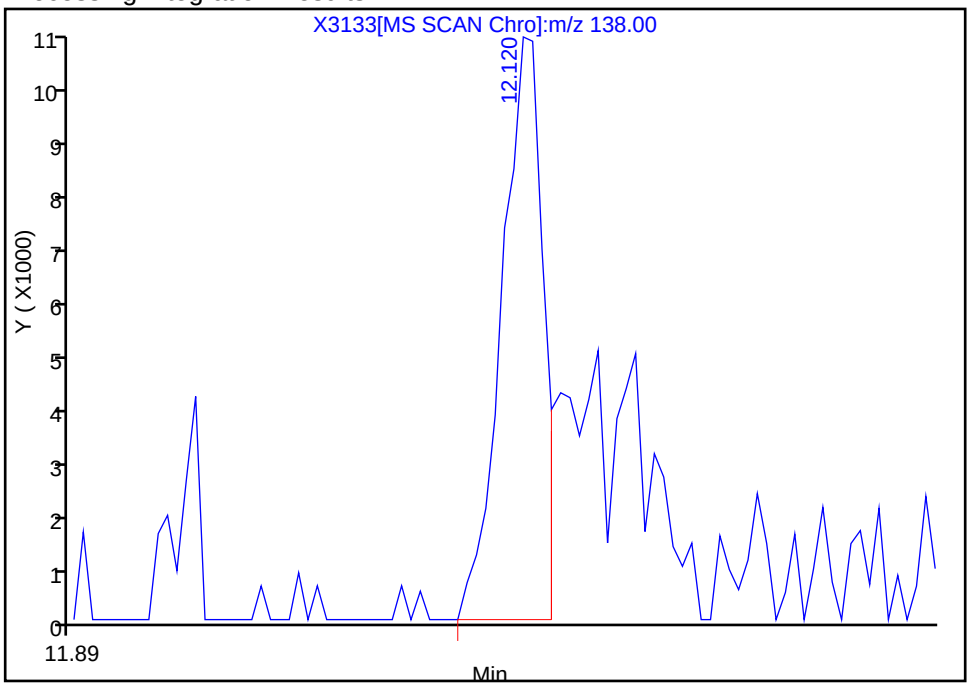
TestAmerica Buffalo

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

81 4-Nitroaniline, Signal: 1, m/z: 138.0 Type: quant, RT: 12.07

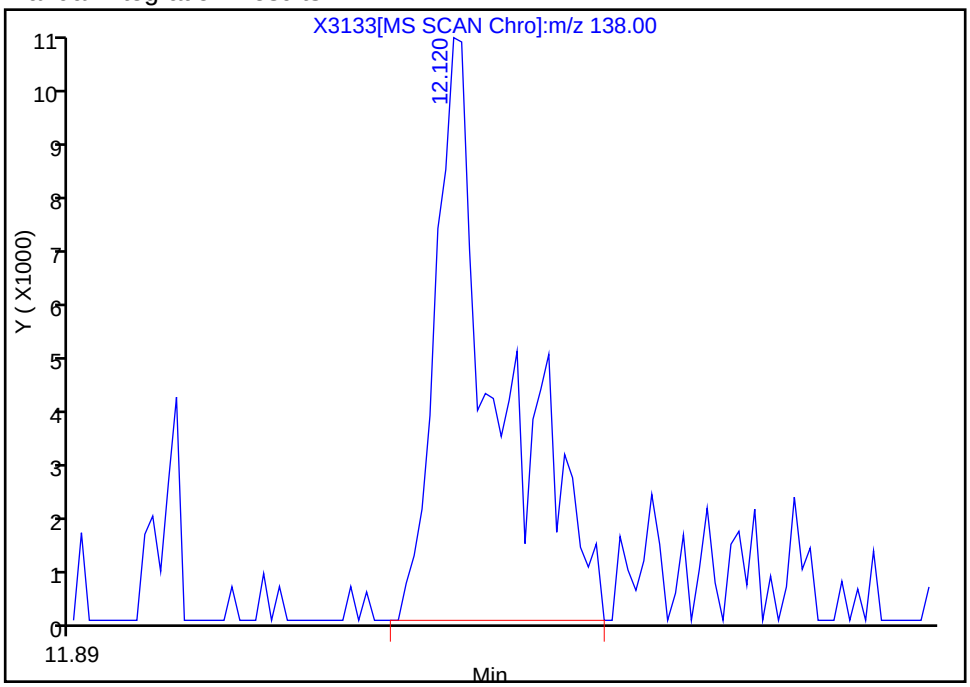
Processing Integration Results

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

Manual Integration/User Assign Peak Report

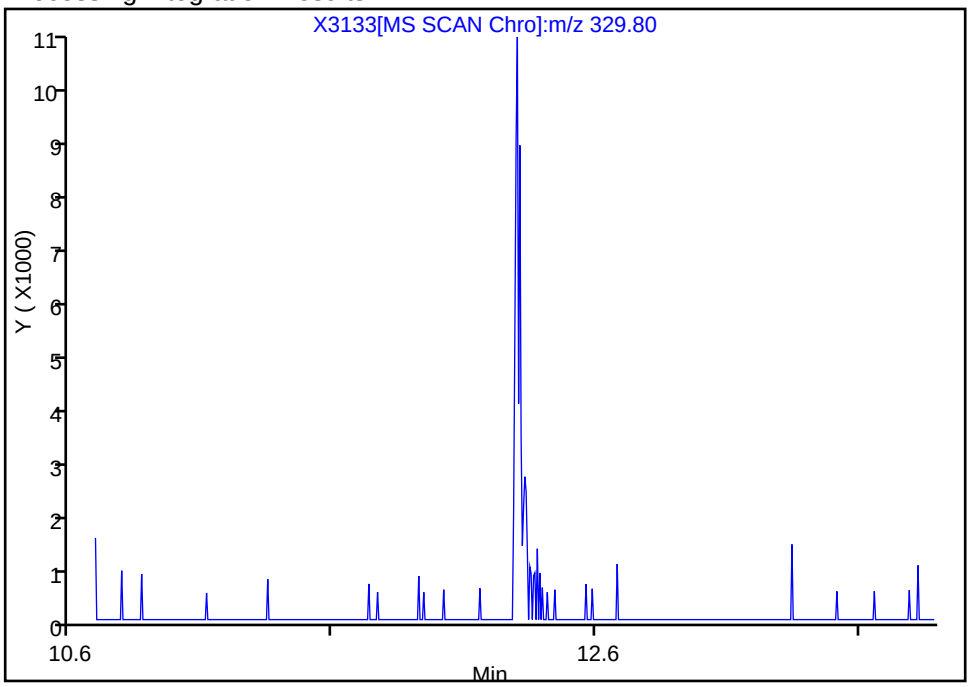
TestAmerica Buffalo

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

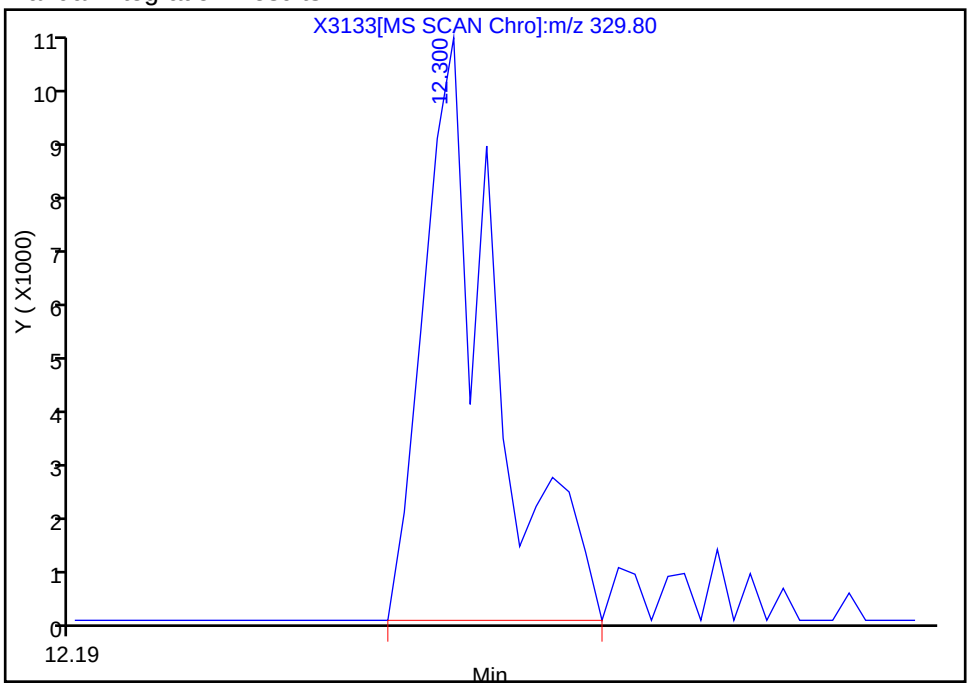
Processing Integration Results

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

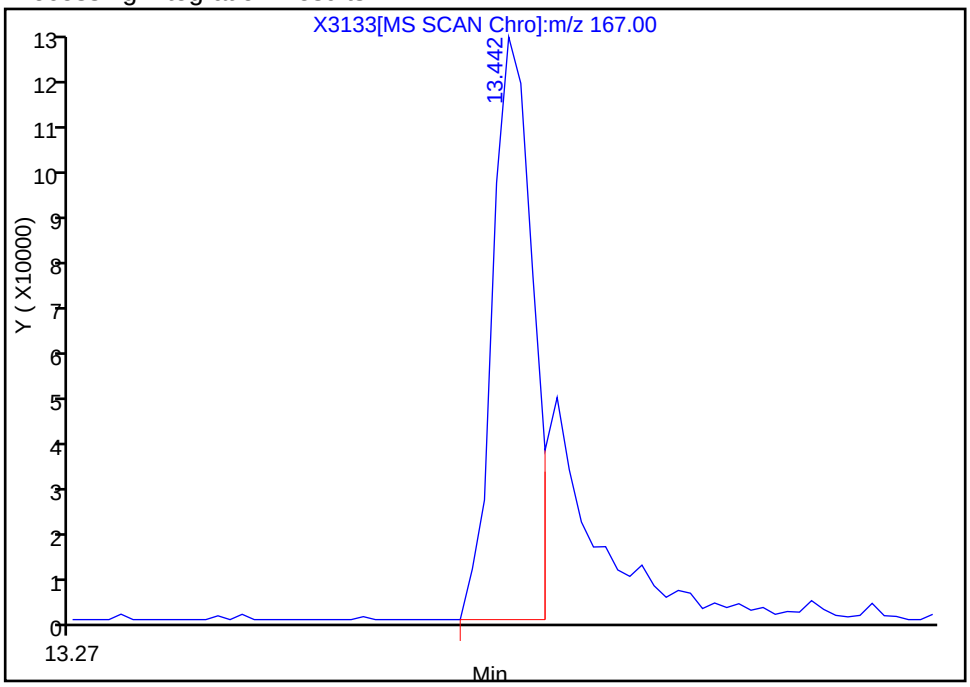
TestAmerica Buffalo

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

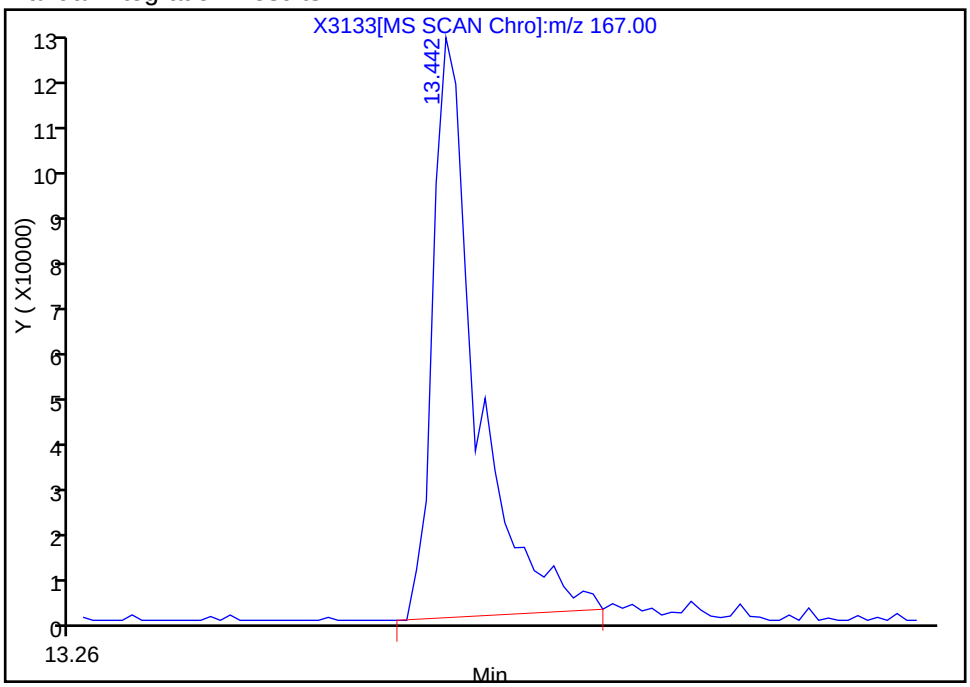
Processing Integration Results

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

Report Date: 18-Dec-2012 16:43:03 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

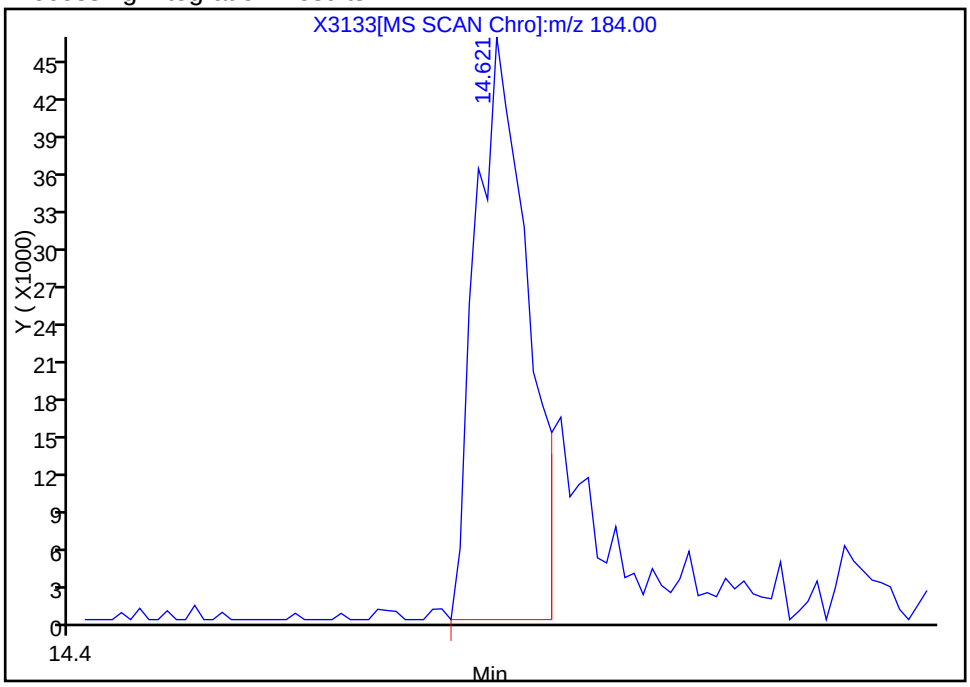
TestAmerica Buffalo

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

105 Benzidine, Signal: 1, m/z: 184.0 Type: quant, RT: 14.60

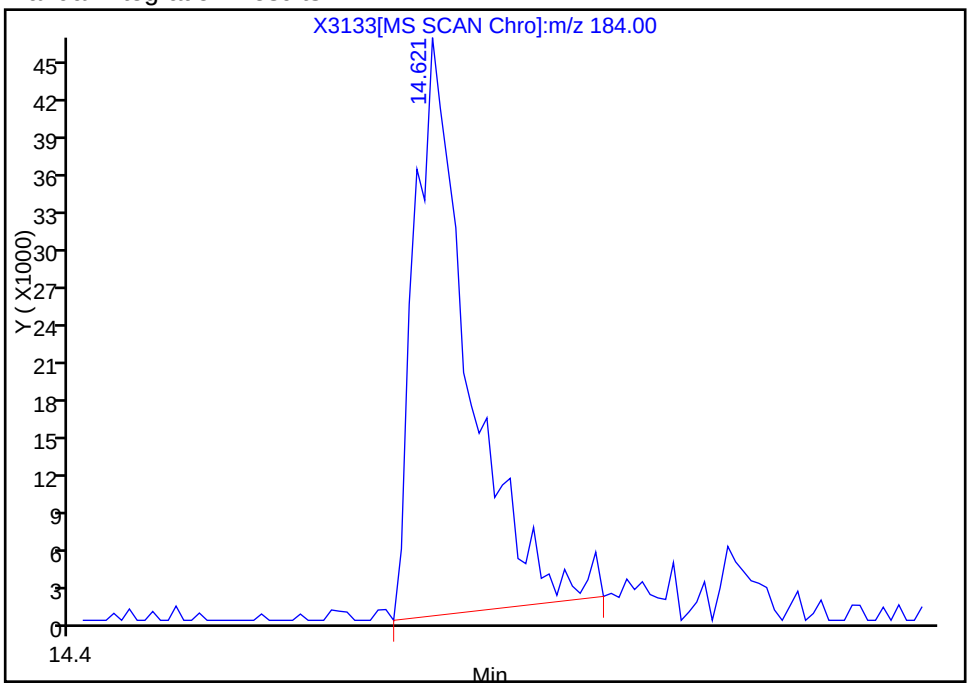
Processing Integration Results

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

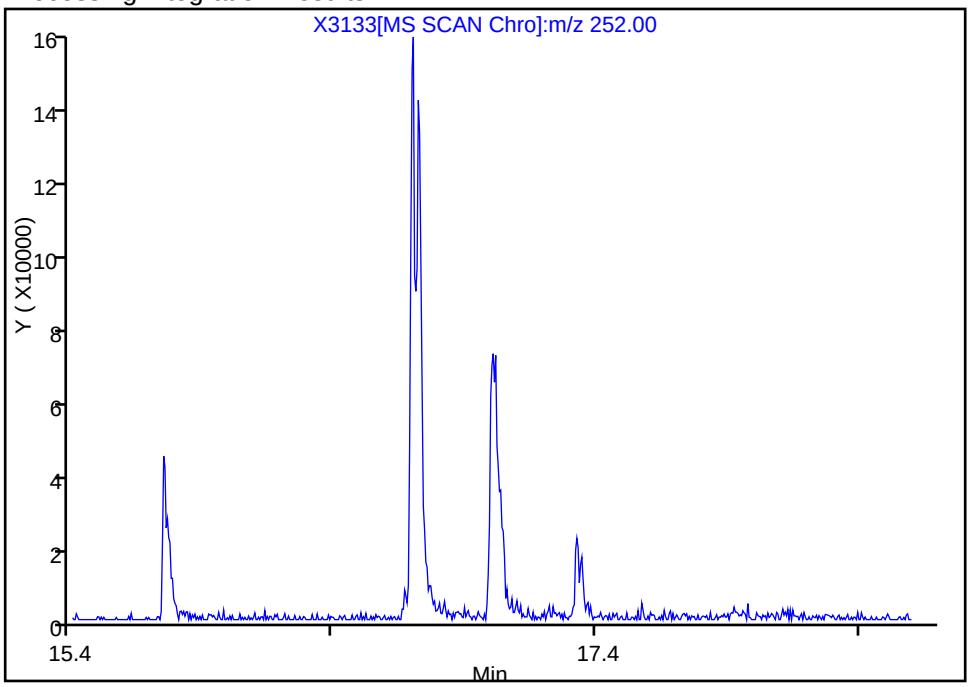
TestAmerica Buffalo

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

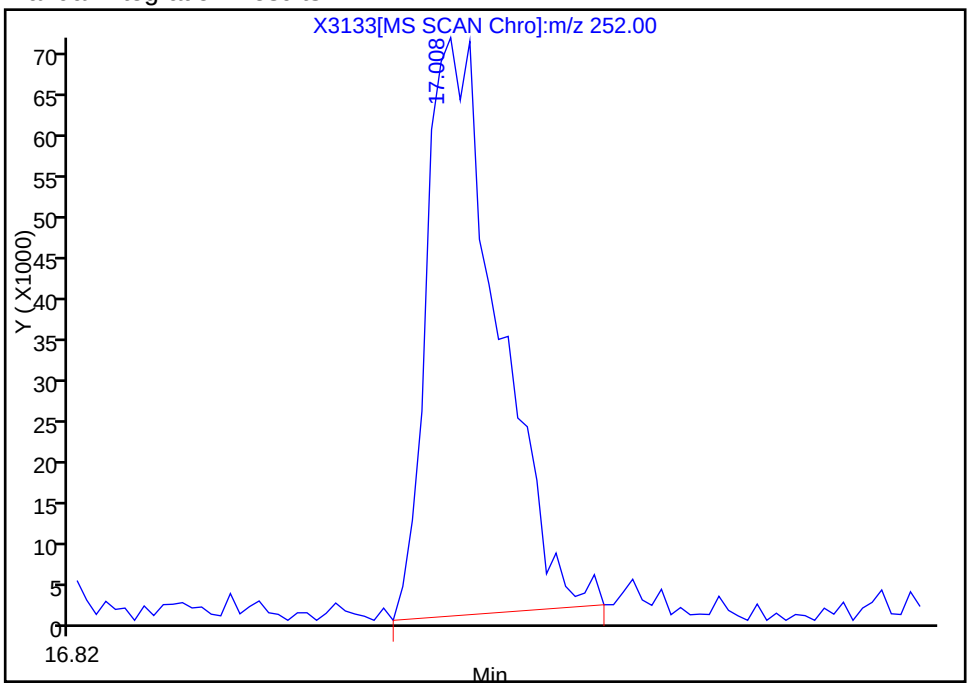
Processing Integration Results

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

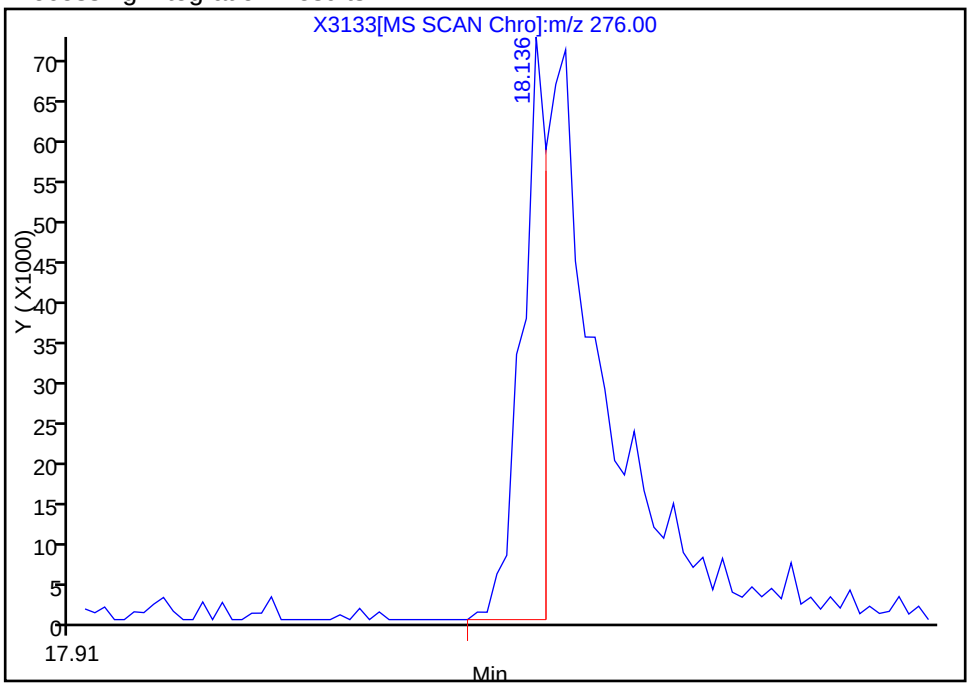
TestAmerica Buffalo

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

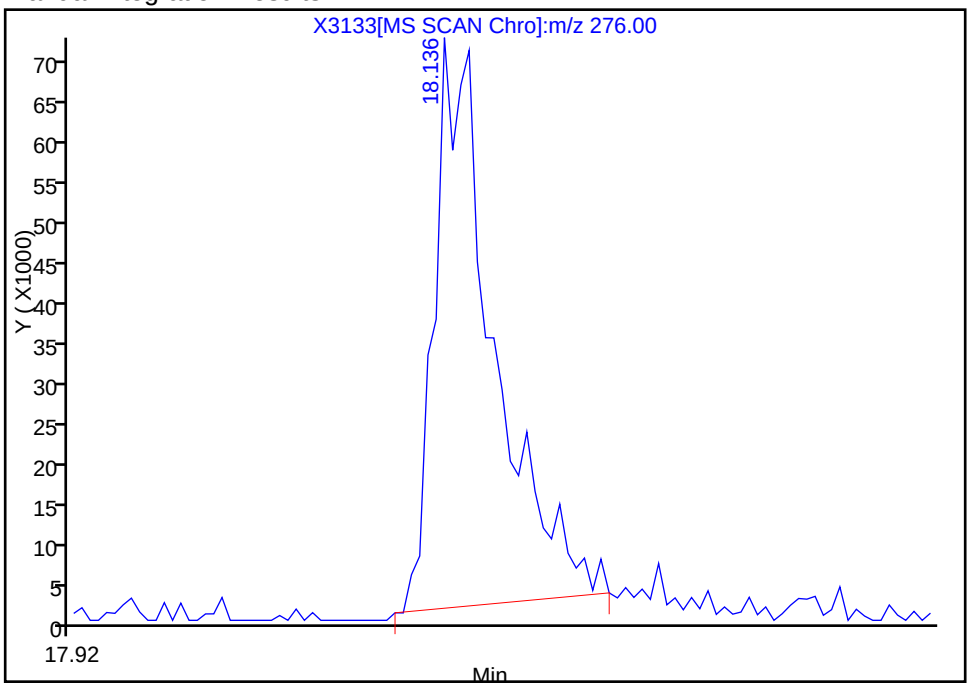
Processing Integration Results

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

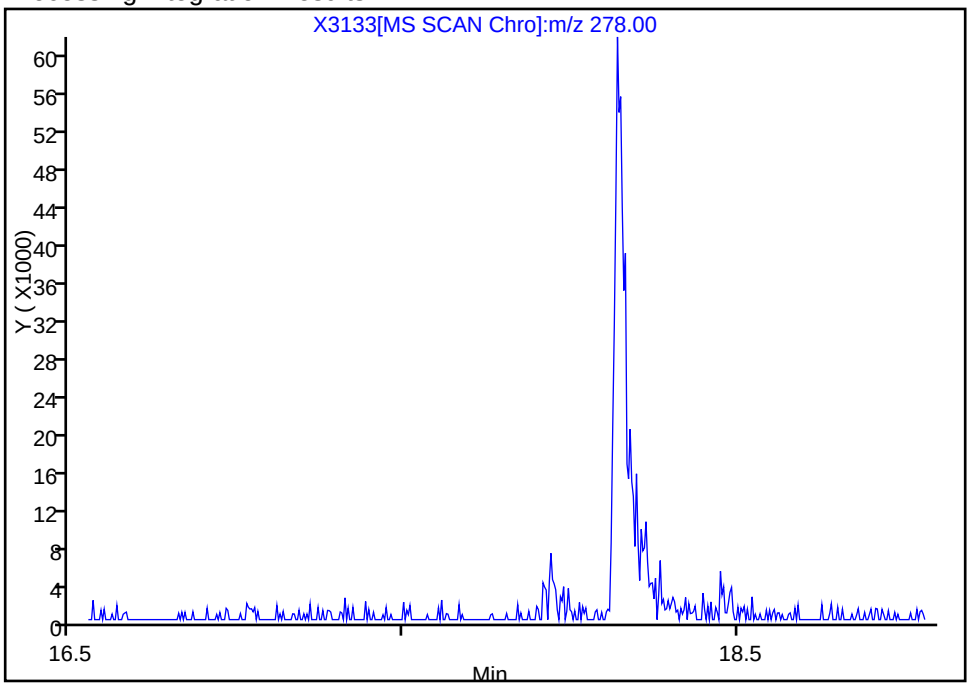
TestAmerica Buffalo

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

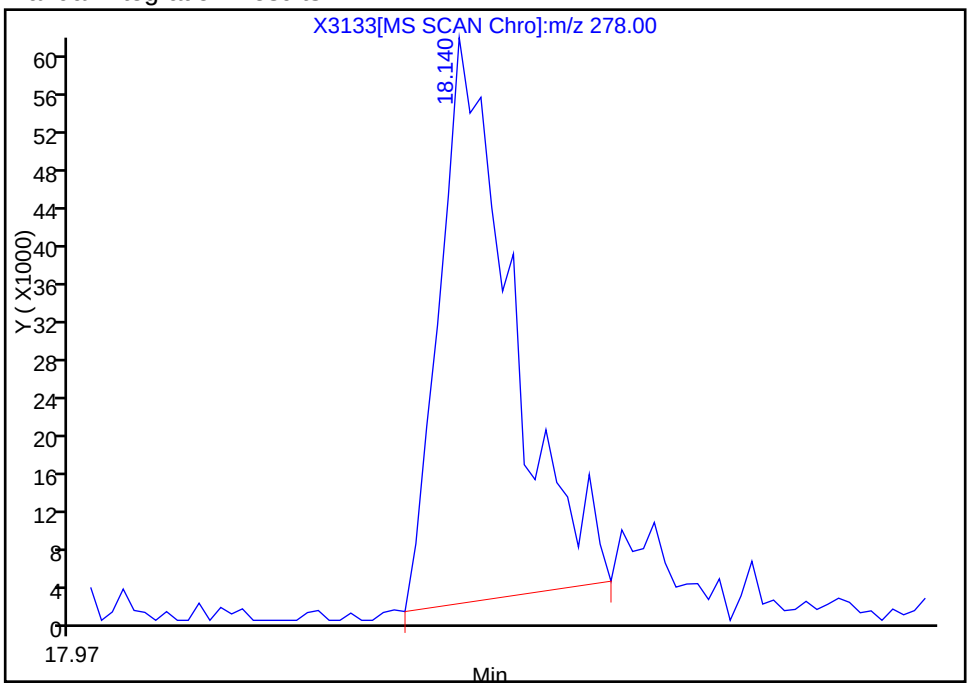
Processing Integration Results

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

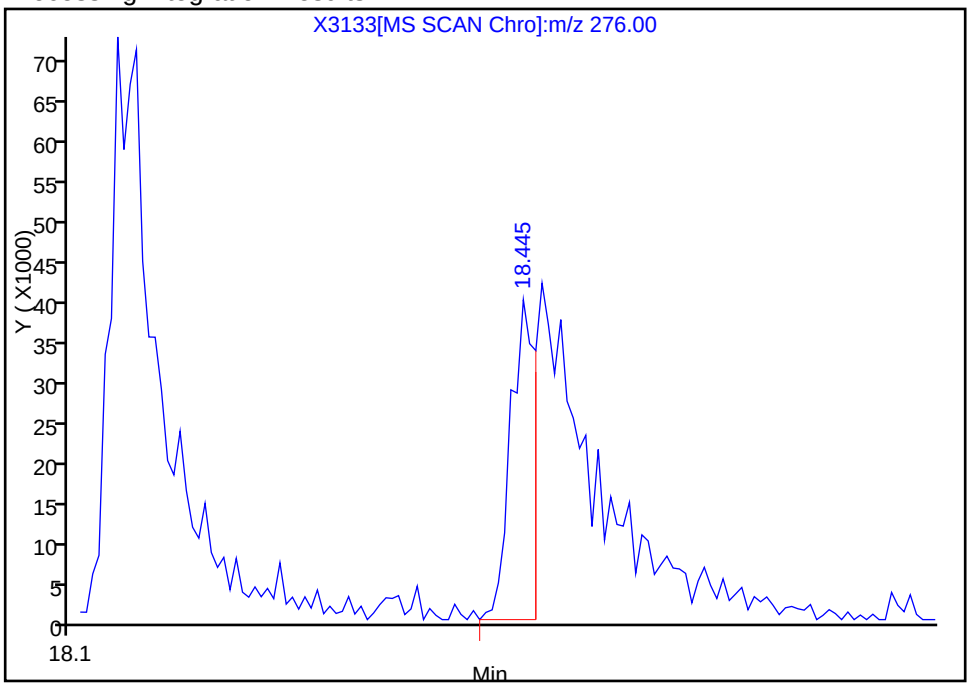
TestAmerica Buffalo

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

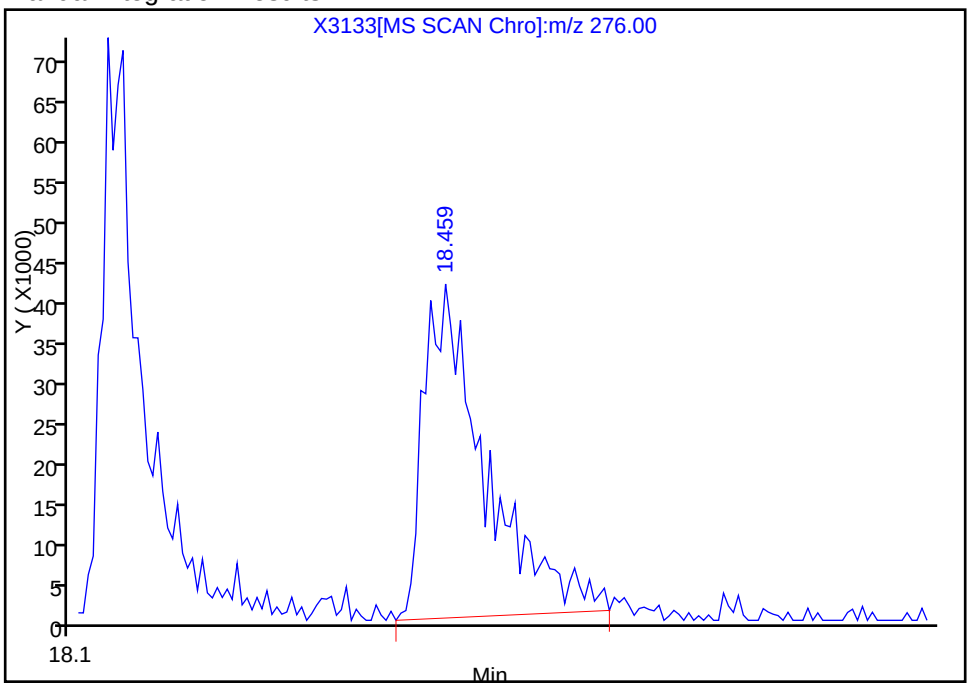
Processing Integration Results

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					

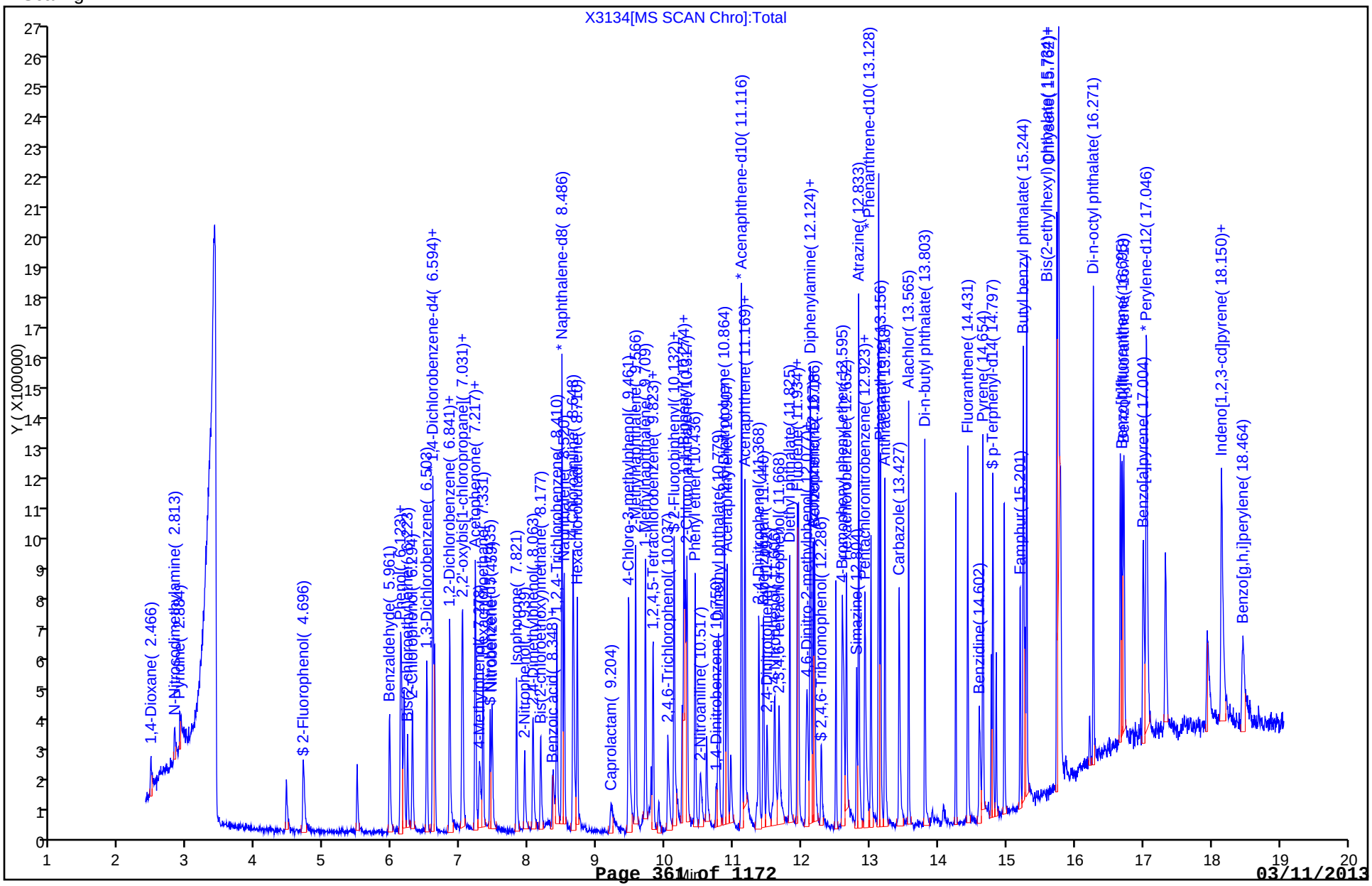
QC Flag Legend

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

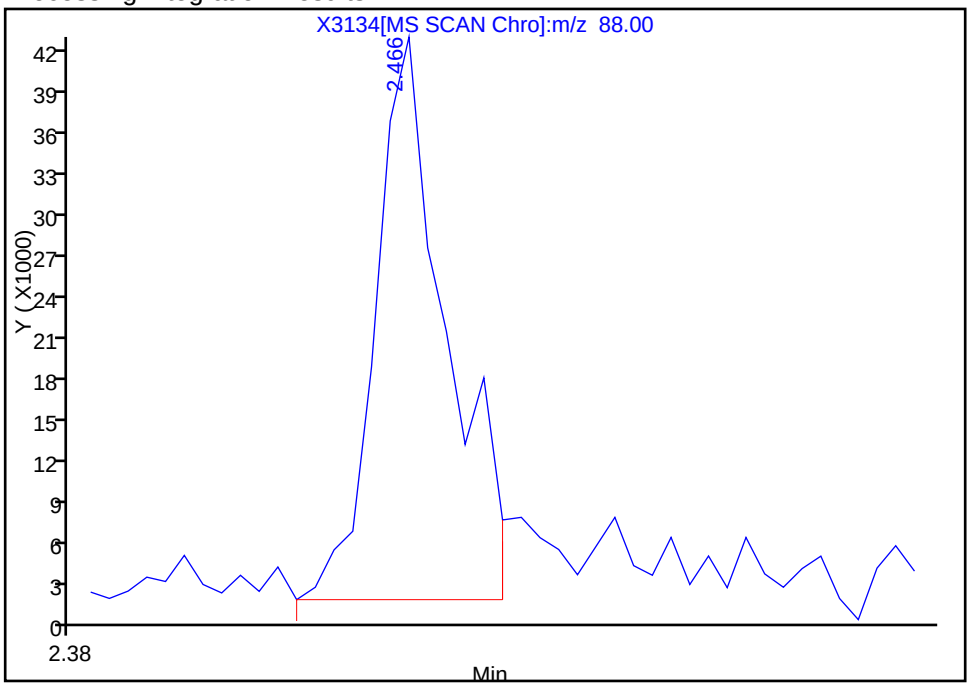
TestAmerica Buffalo

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

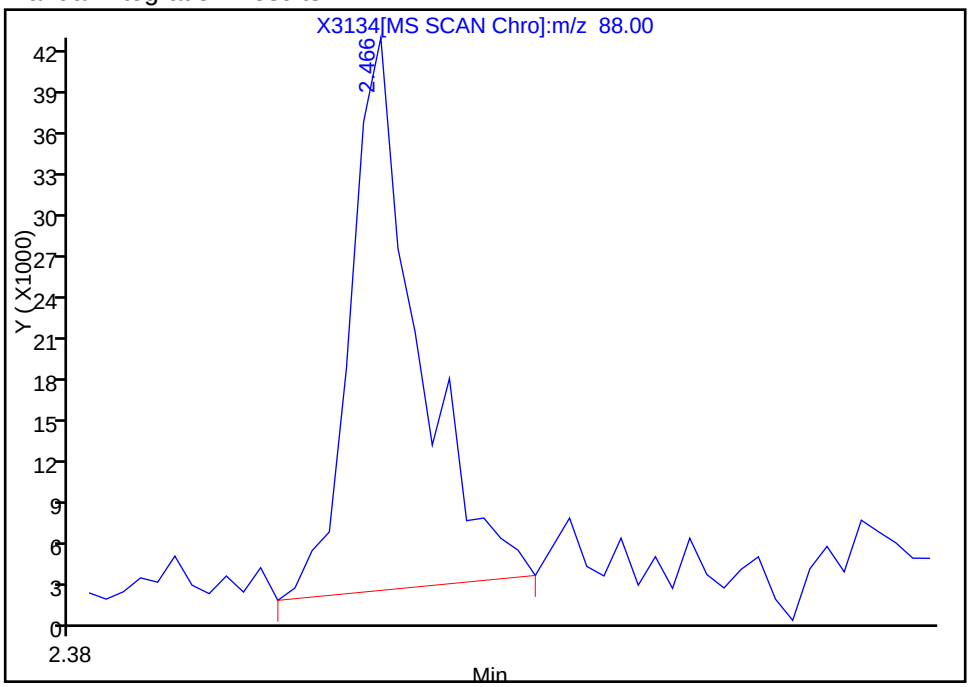
Processing Integration Results

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

Manual Integration/User Assign Peak Report

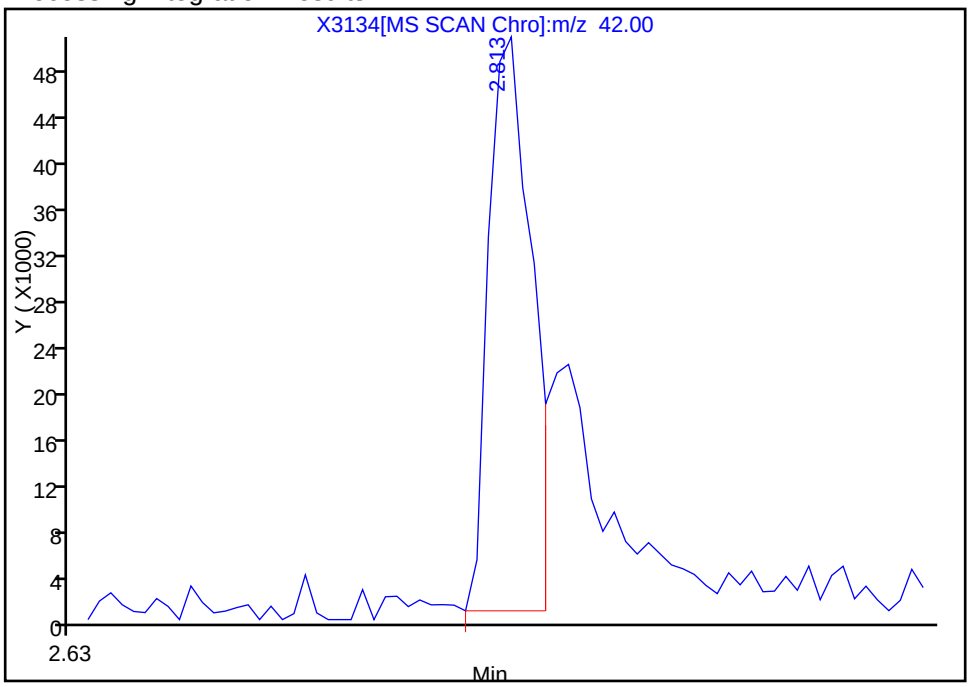
TestAmerica Buffalo

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

19 N-Nitrosodimethylamine, Signal: 1, m/z: 42.0 Type: quant, RT: 2.81

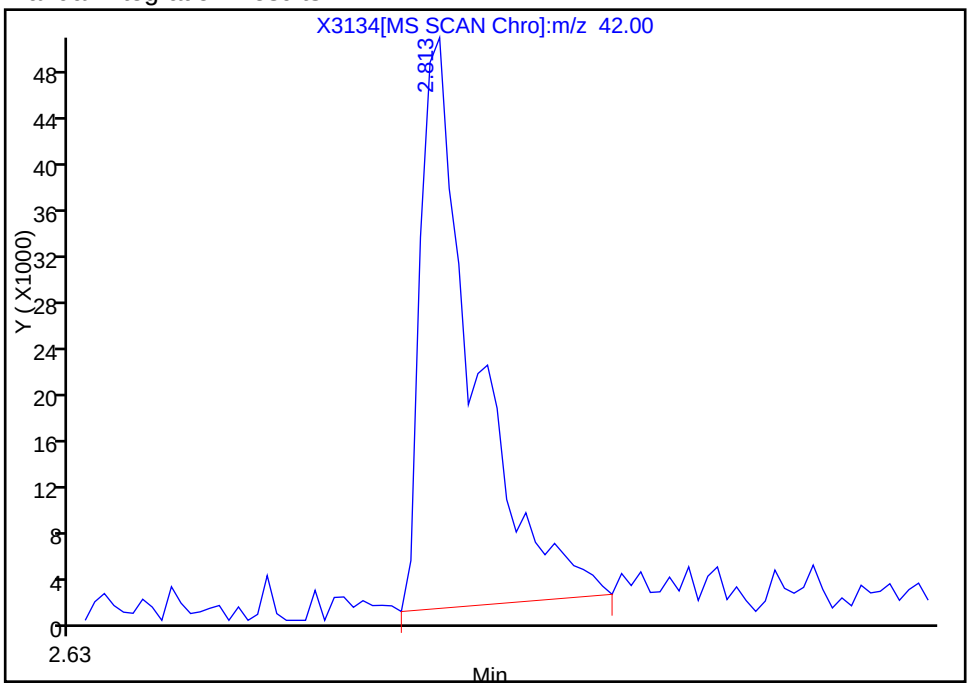
Processing Integration Results

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
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

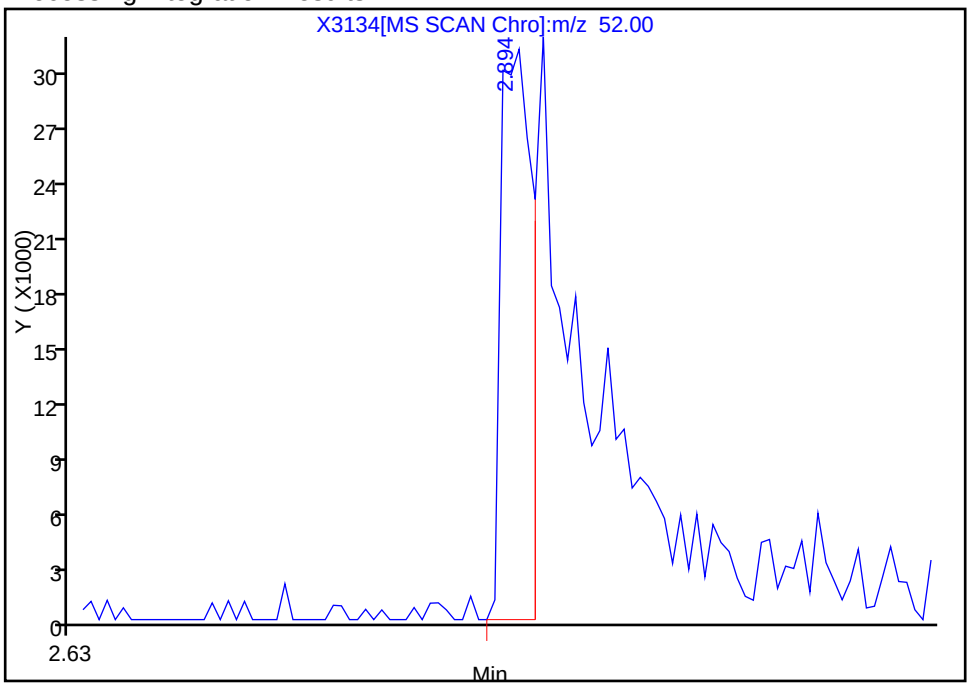
TestAmerica Buffalo

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

20 Pyridine, Signal: 1, m/z: 52.0 Type: quant, RT: 2.91

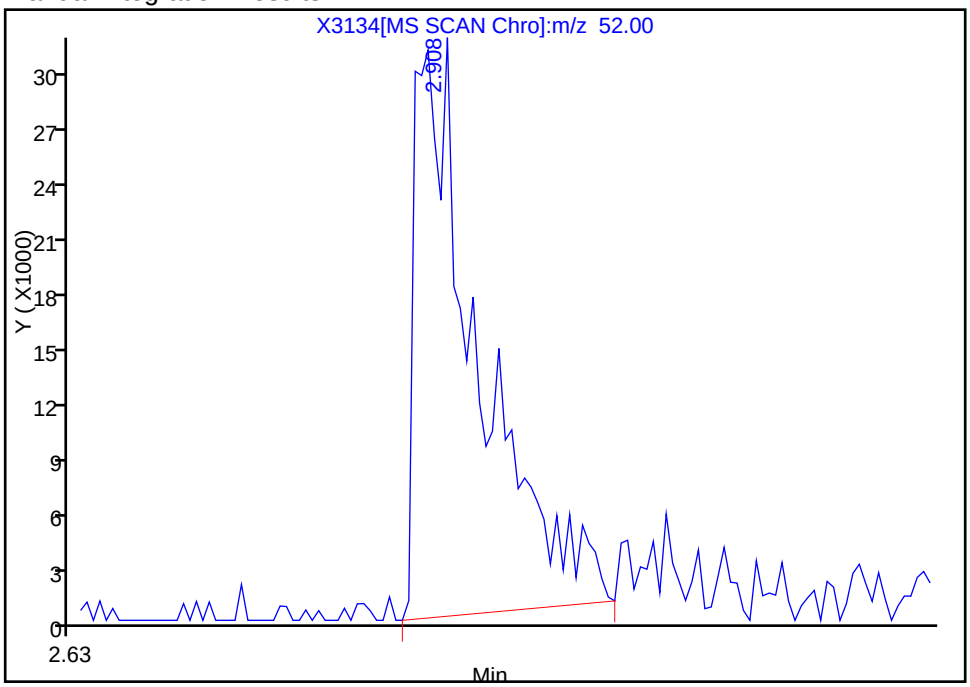
Processing Integration Results

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
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

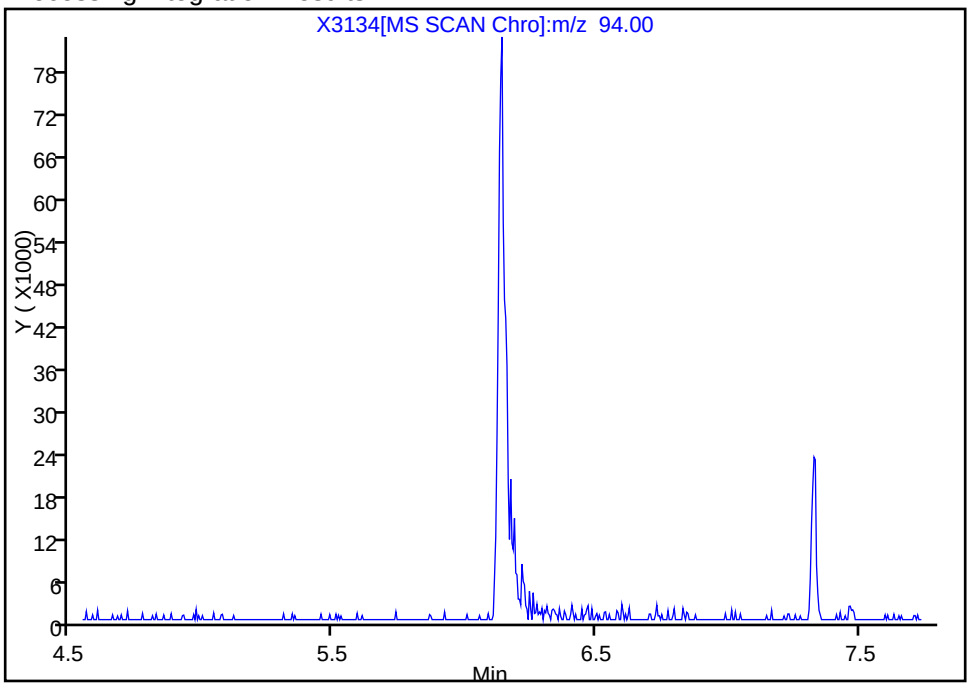
TestAmerica Buffalo

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

22 Phenol, Signal: 1, m/z: 94.0 Type: quant, RT: 6.14

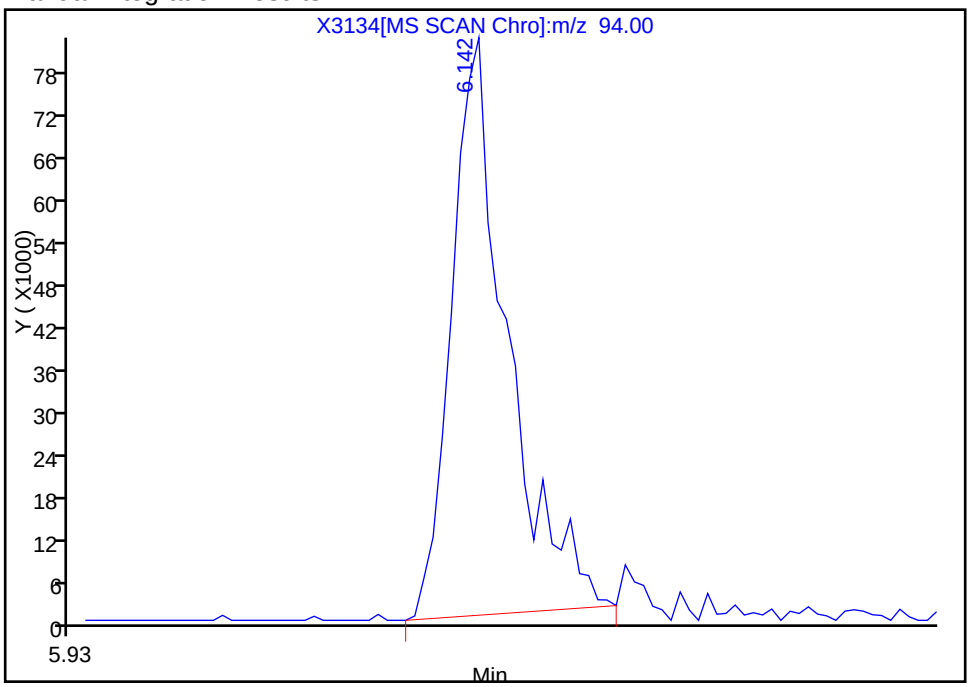
Processing Integration Results

Not Detected
Expected RT: 6.14



Manual Integration Results

RT: 6.14
Response: 163955
Amount: 2.739343



Reviewer: mckernar, 18-Dec-2012 13:08:06
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

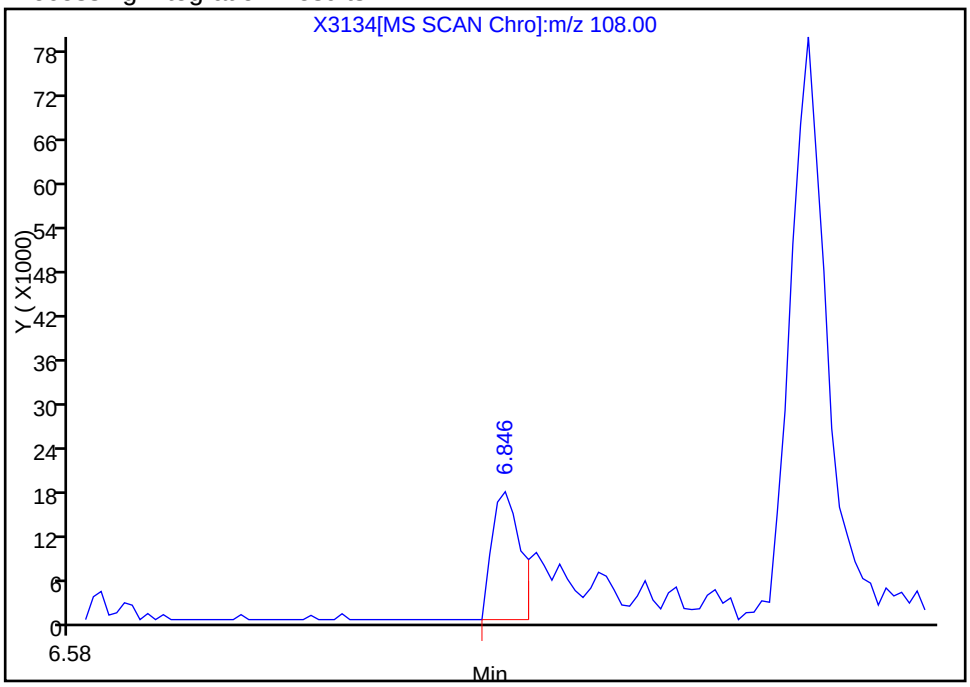
TestAmerica Buffalo

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

28 Benzyl alcohol, Signal: 1, m/z: 108.0 Type: quant, RT: 6.85

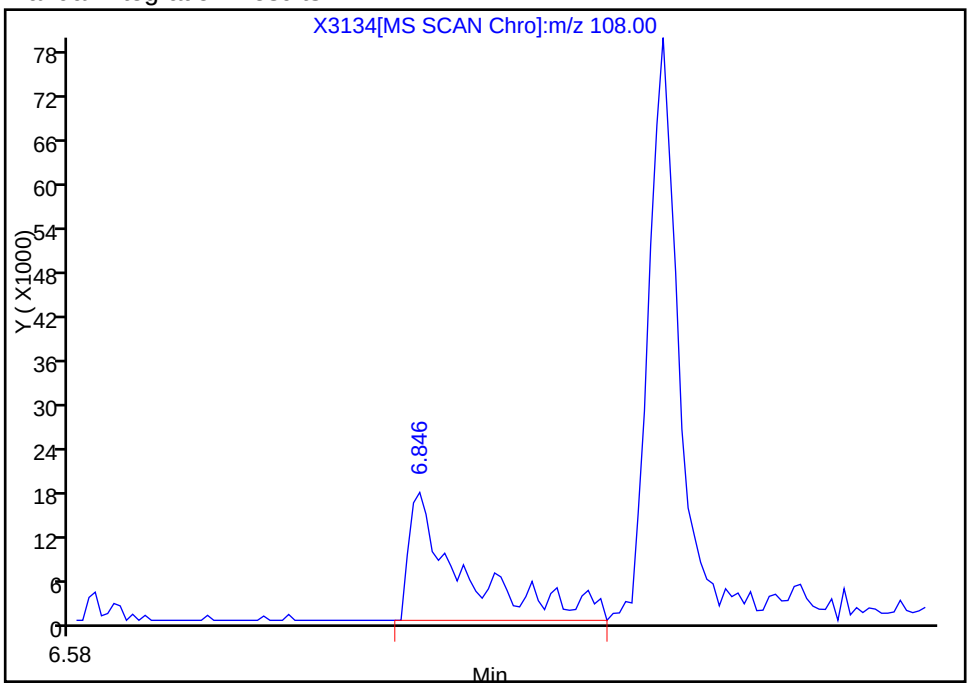
Processing Integration Results

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
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

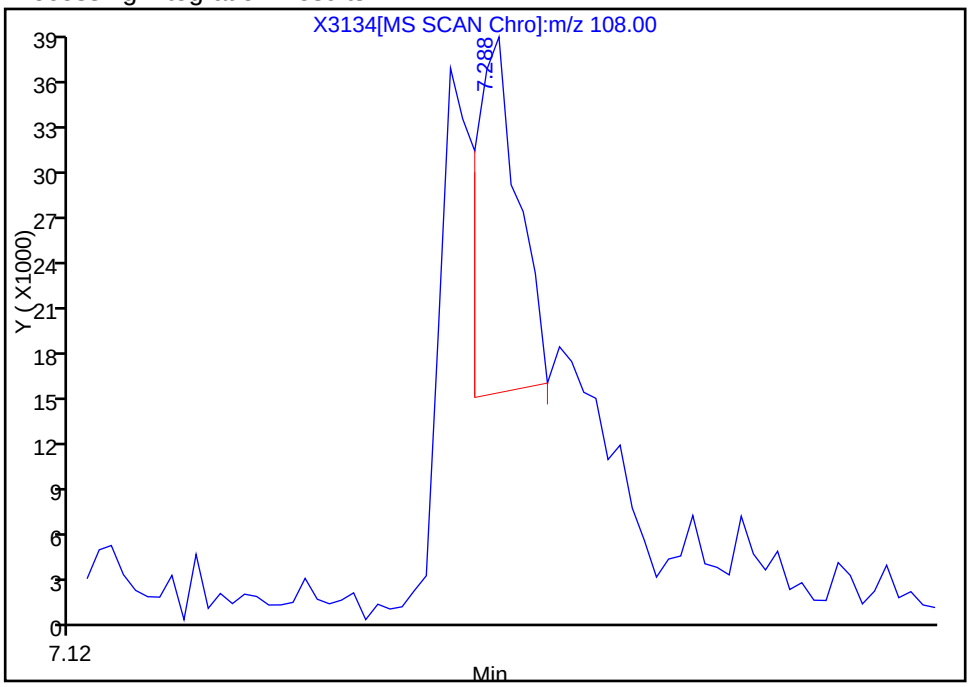
TestAmerica Buffalo

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

36 4-Methylphenol, Signal: 1, m/z: 108.0 Type: quant, RT: 7.29

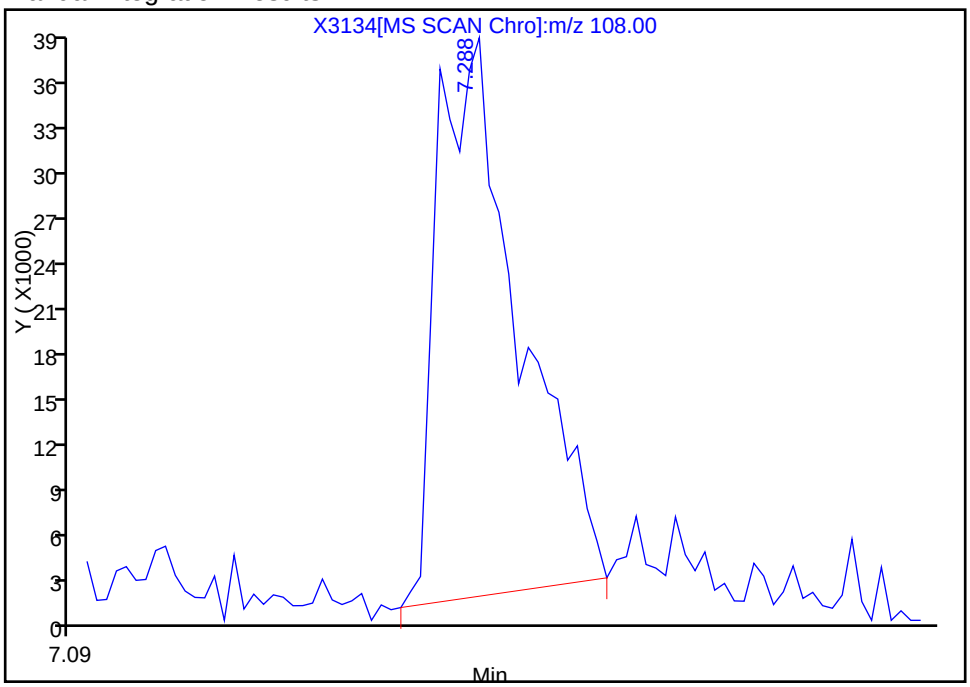
Processing Integration Results

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
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

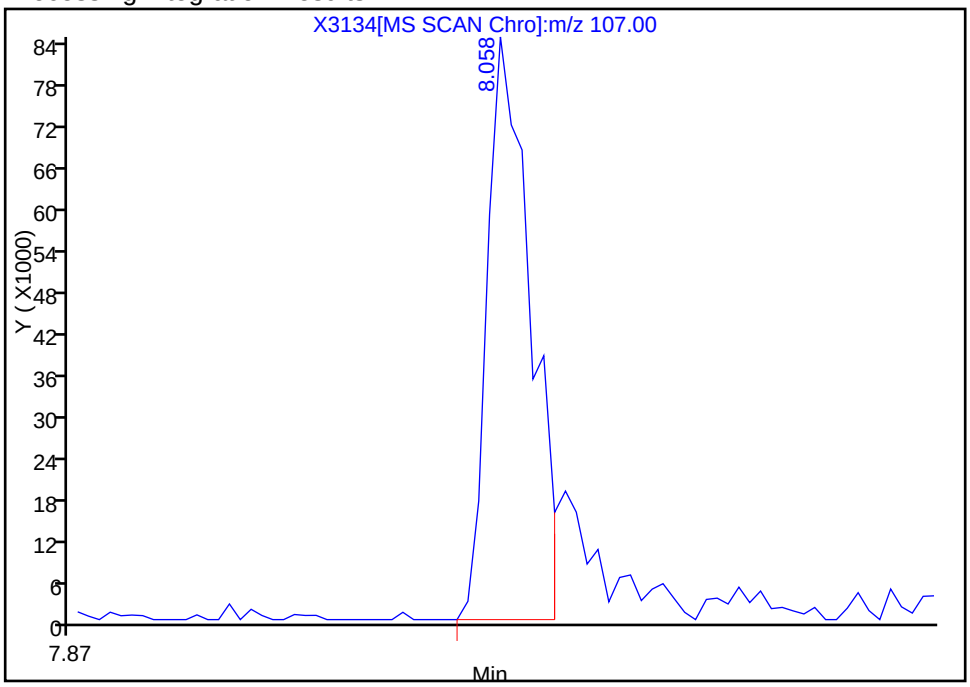
TestAmerica Buffalo

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

43 2,4-Dimethylphenol, Signal: 1, m/z: 107.0 Type: quant, RT: 8.06

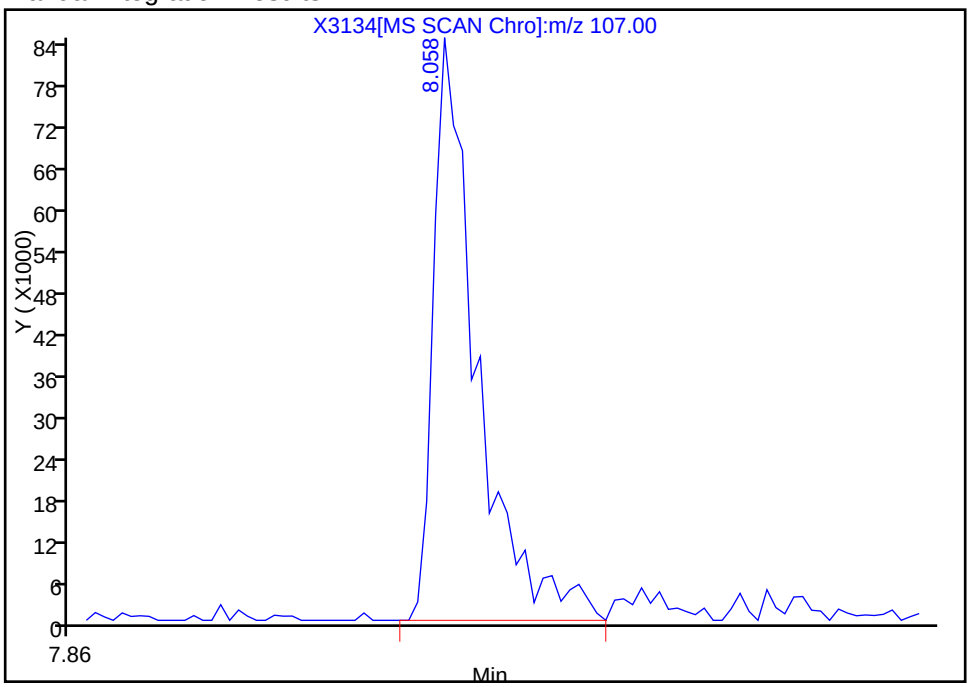
Processing Integration Results

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
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

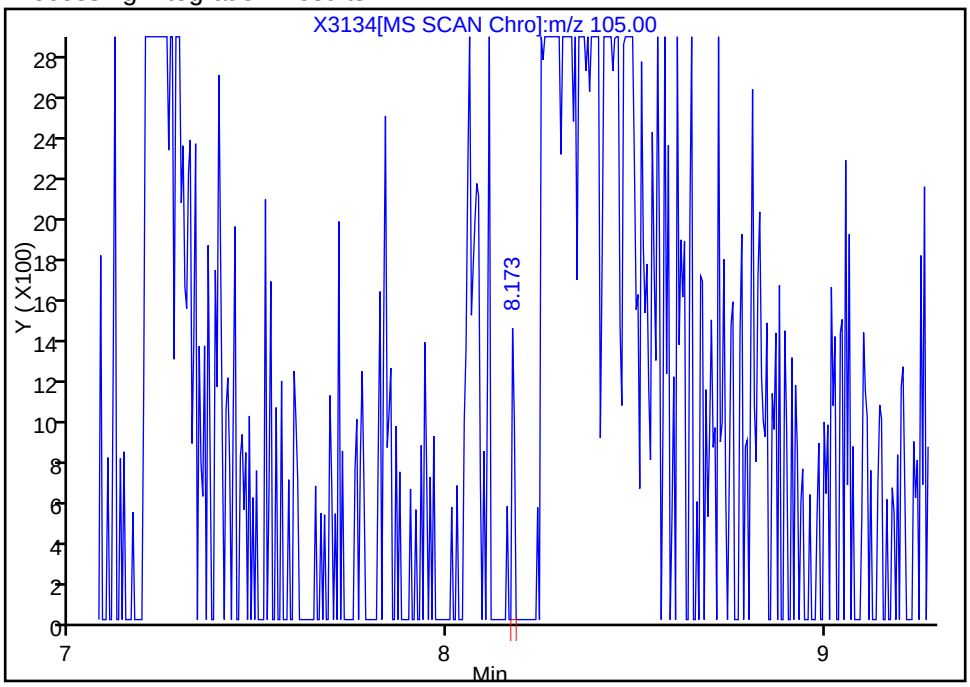
TestAmerica Buffalo

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

44 Benzoic acid, Signal: 1, m/z: 105.0 Type: quant, RT: 8.27

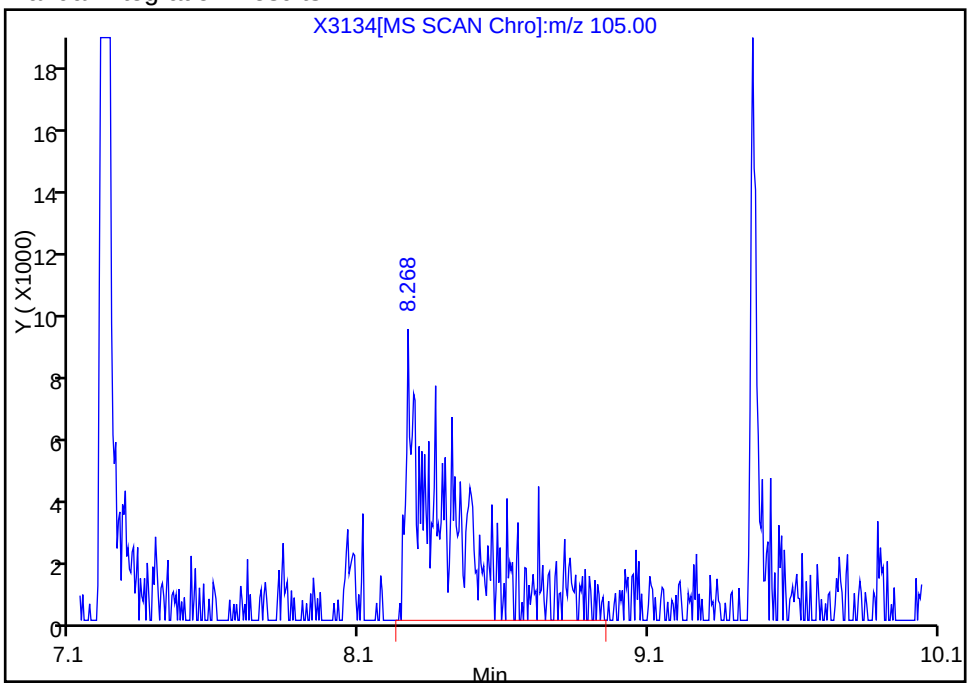
Processing Integration Results

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
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

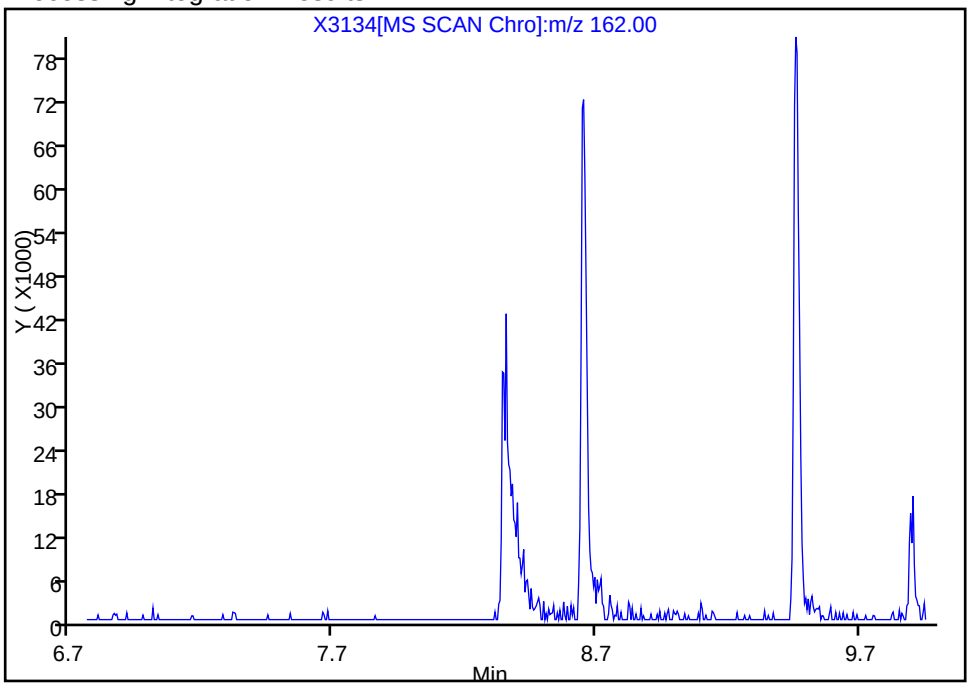
TestAmerica Buffalo

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

47 2,4-Dichlorophenol, Signal: 1, m/z: 162.0 Type: quant, RT: 8.36

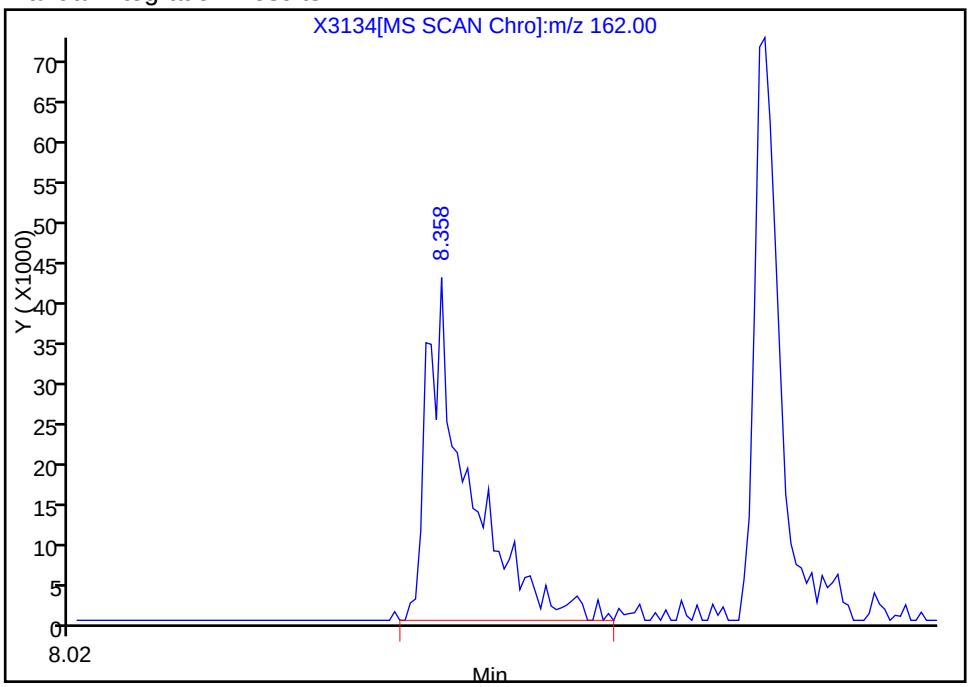
Processing Integration Results

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
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

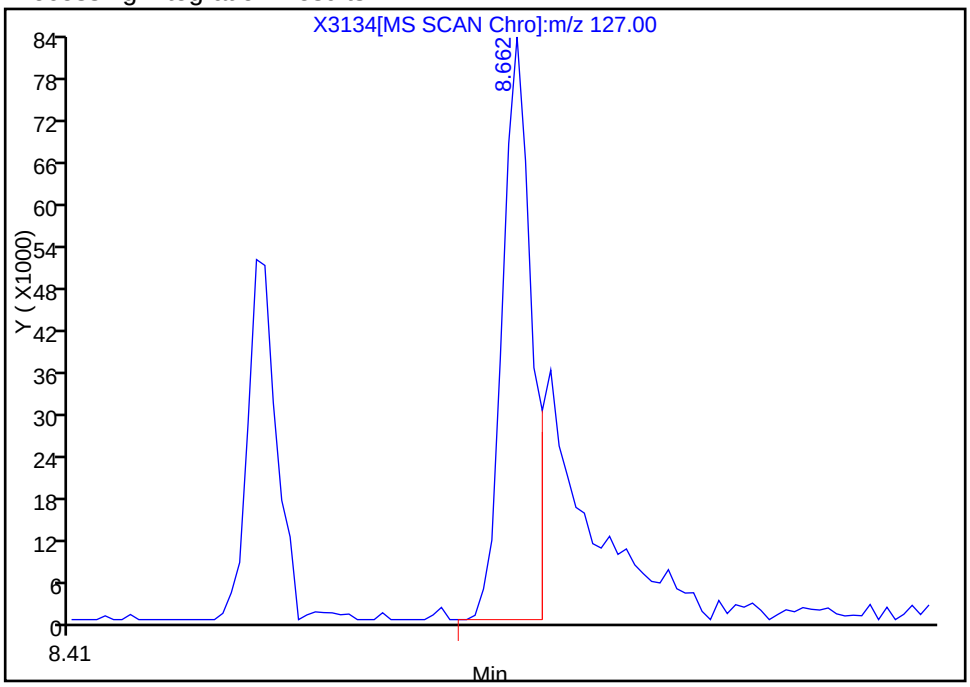
TestAmerica Buffalo

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

51 4-Chloroaniline, Signal: 1, m/z: 127.0 Type: quant, RT: 8.66

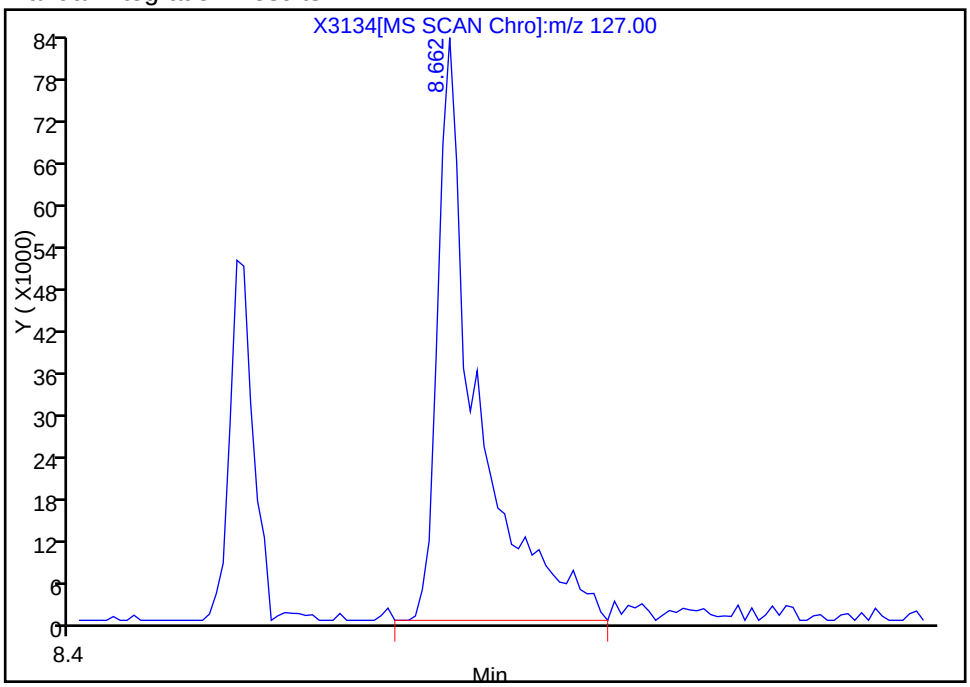
Processing Integration Results

RT: 8.66
Response: 96462
Amount: 2.213314



Manual Integration Results

RT: 8.66
Response: 156755
Amount: 2.516281



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

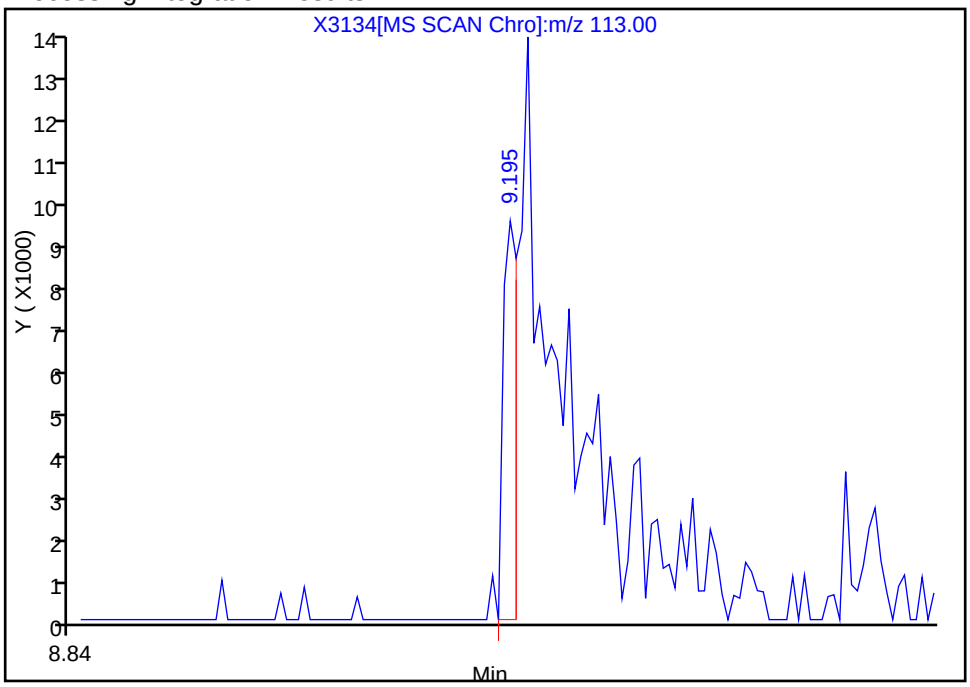
TestAmerica Buffalo

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

54 Caprolactam, Signal: 1, m/z: 113.0 Type: quant, RT: 9.21

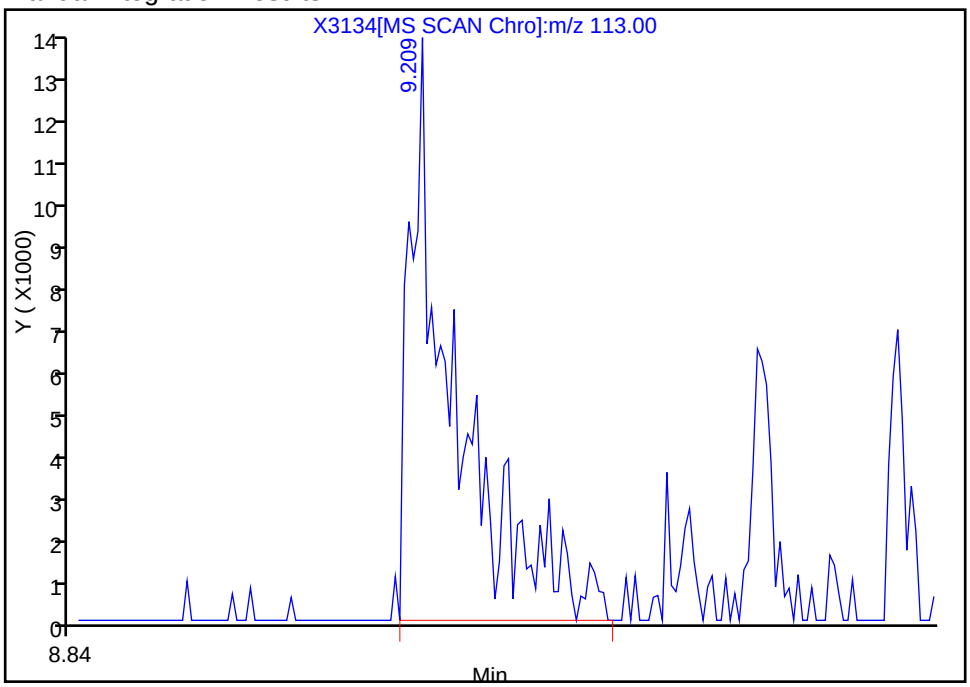
Processing Integration Results

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
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

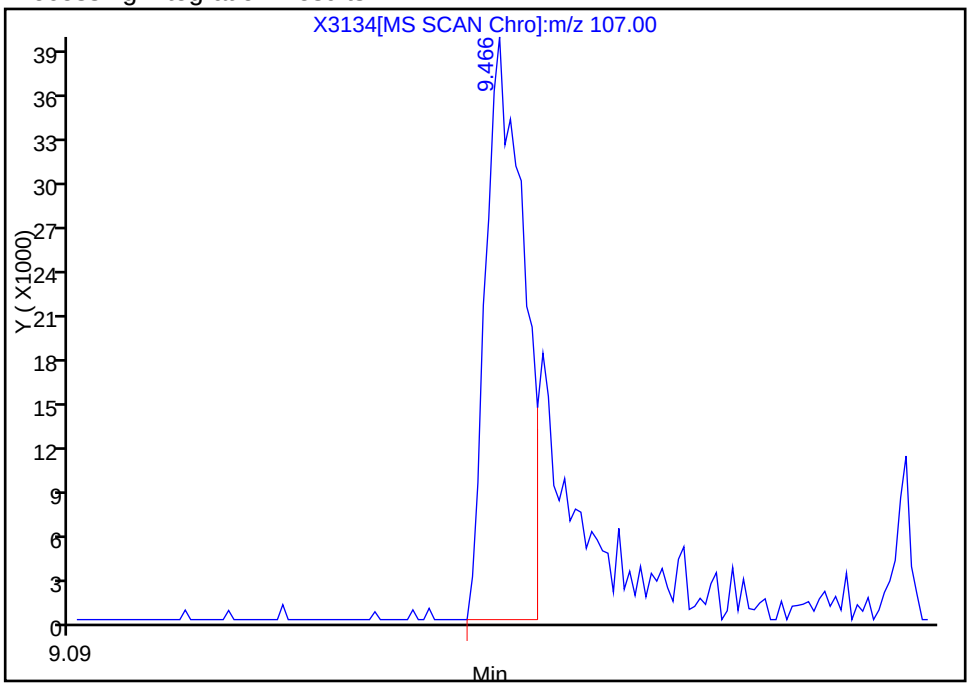
TestAmerica Buffalo

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

55 4-Chloro-3-methylphenol, Signal: 1, m/z: 107.0 Type: quant, RT: 9.47

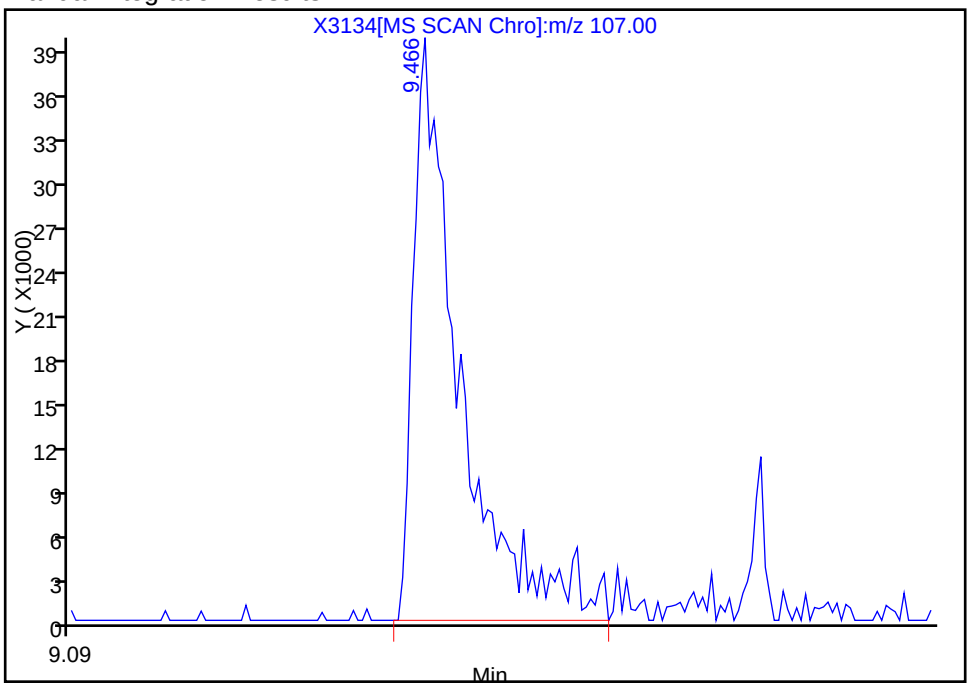
Processing Integration Results

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

Manual Integration/User Assign Peak Report

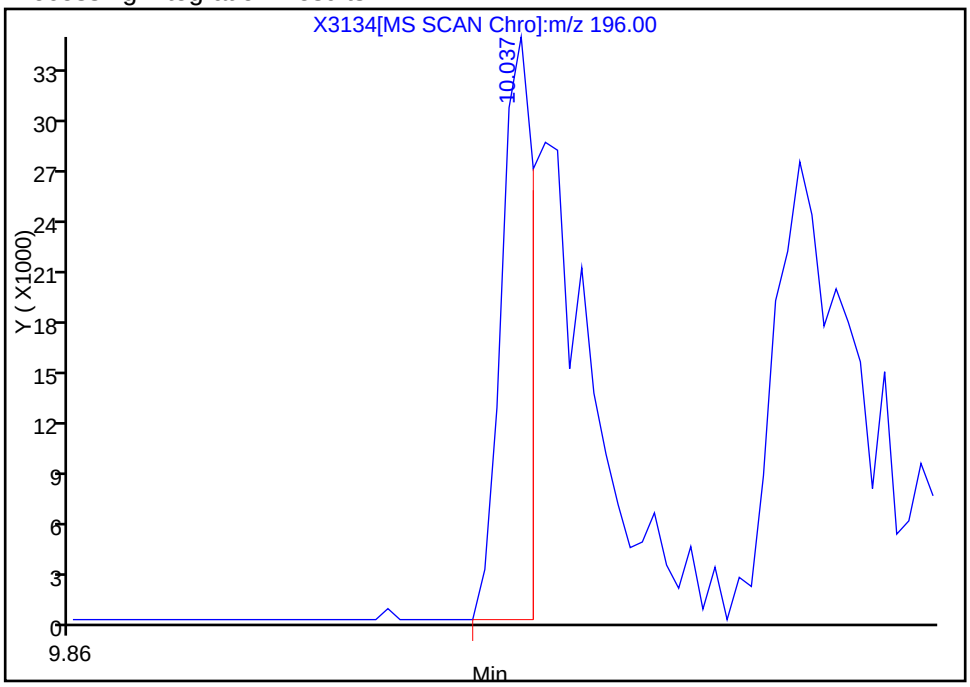
TestAmerica Buffalo

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

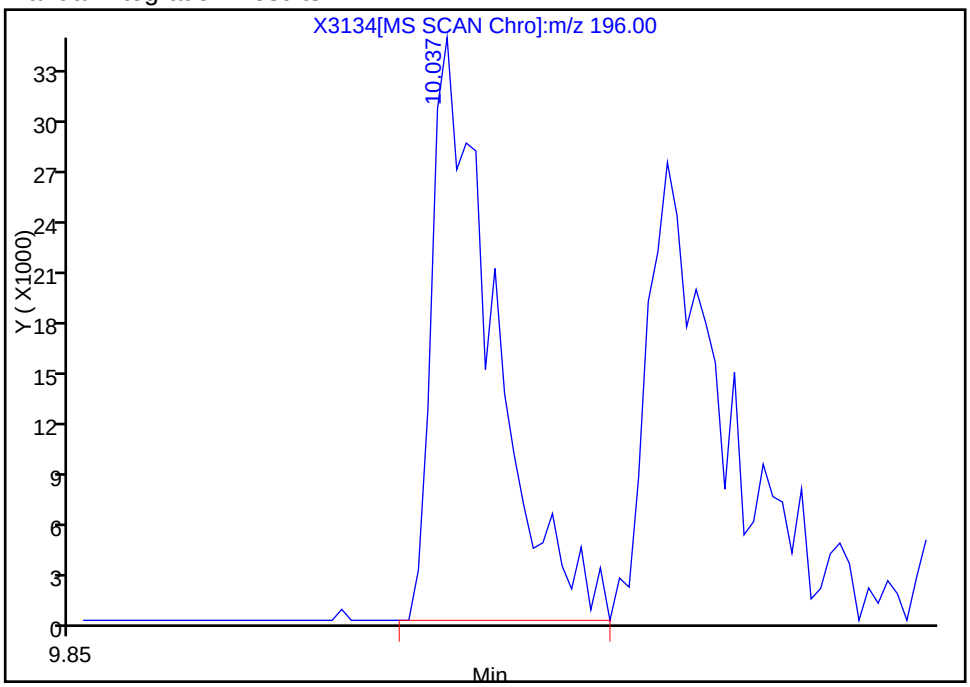
Processing Integration Results

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

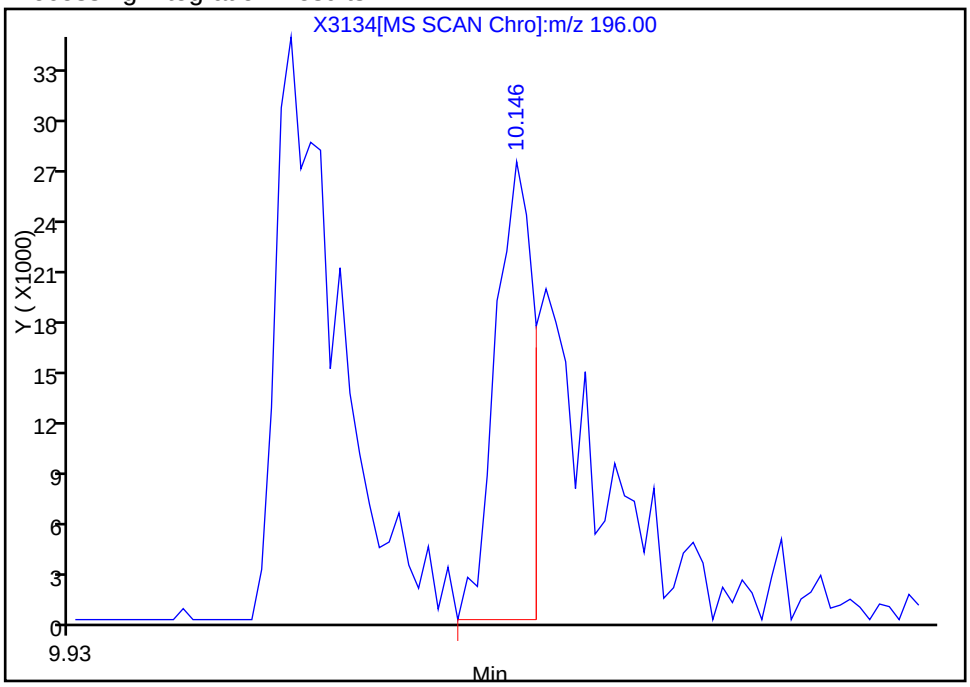
TestAmerica Buffalo

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

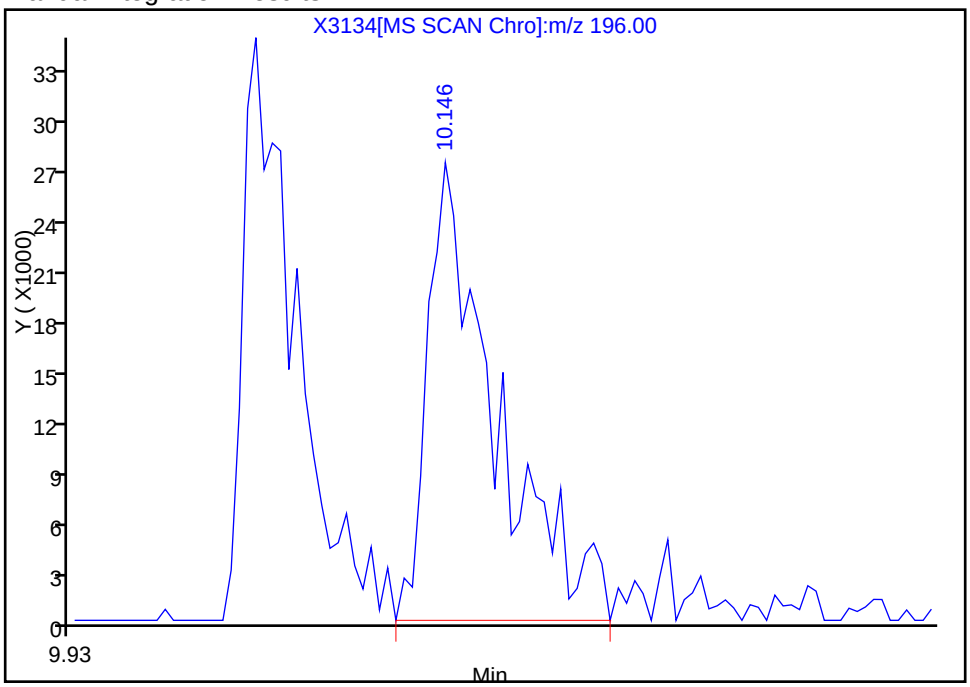
Processing Integration Results

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

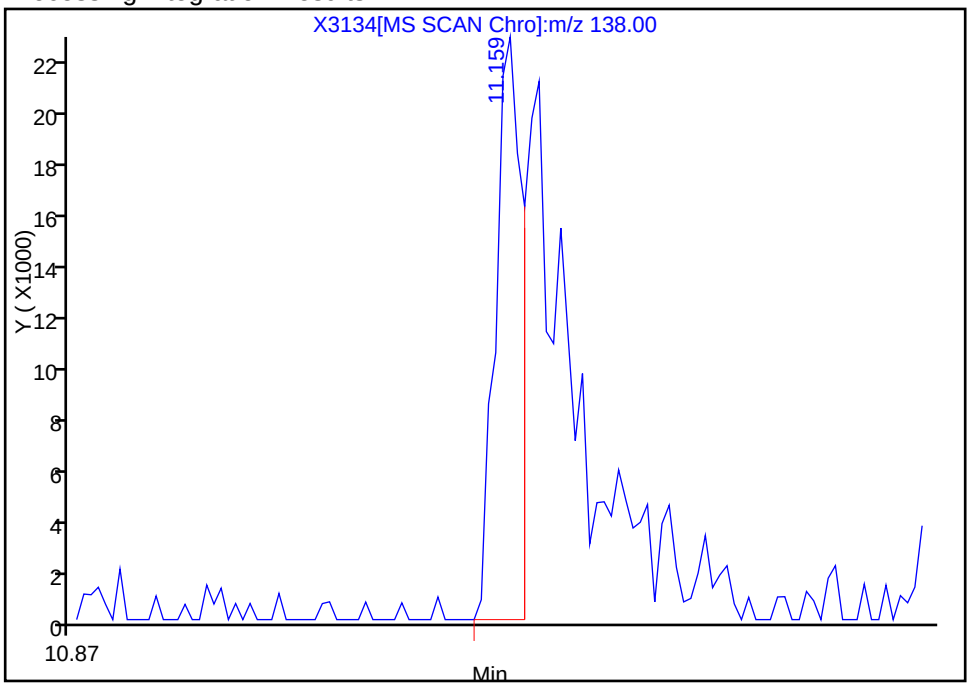
TestAmerica Buffalo

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

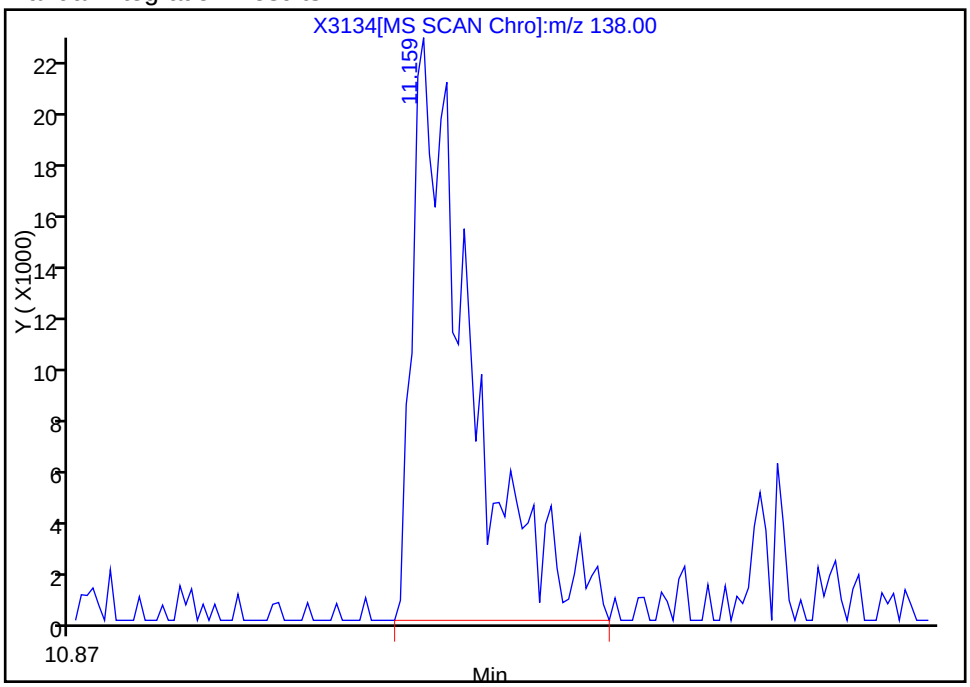
Processing Integration Results

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

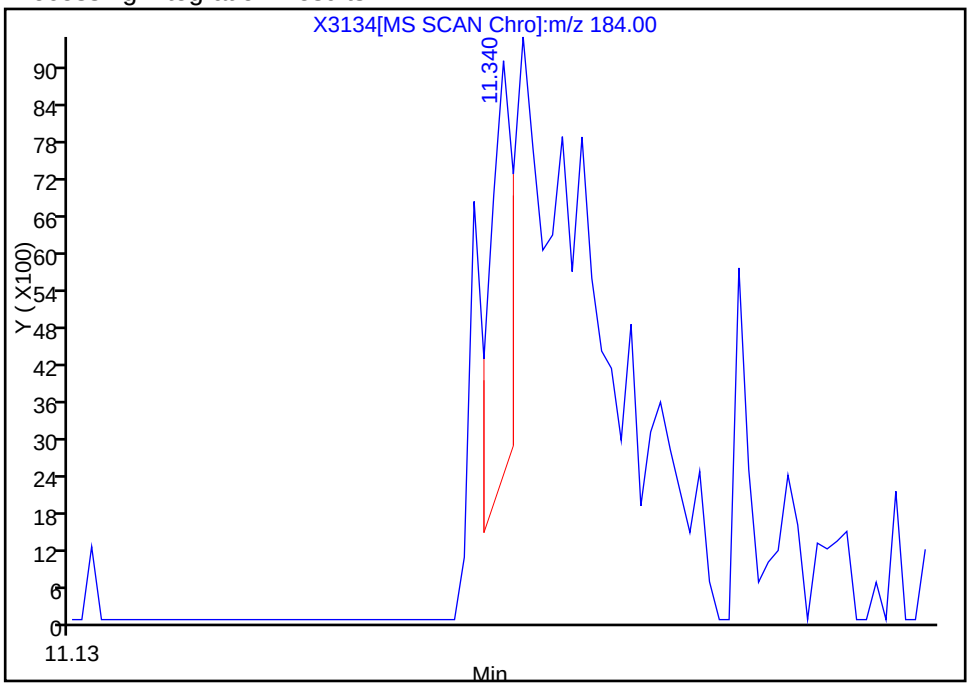
TestAmerica Buffalo

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

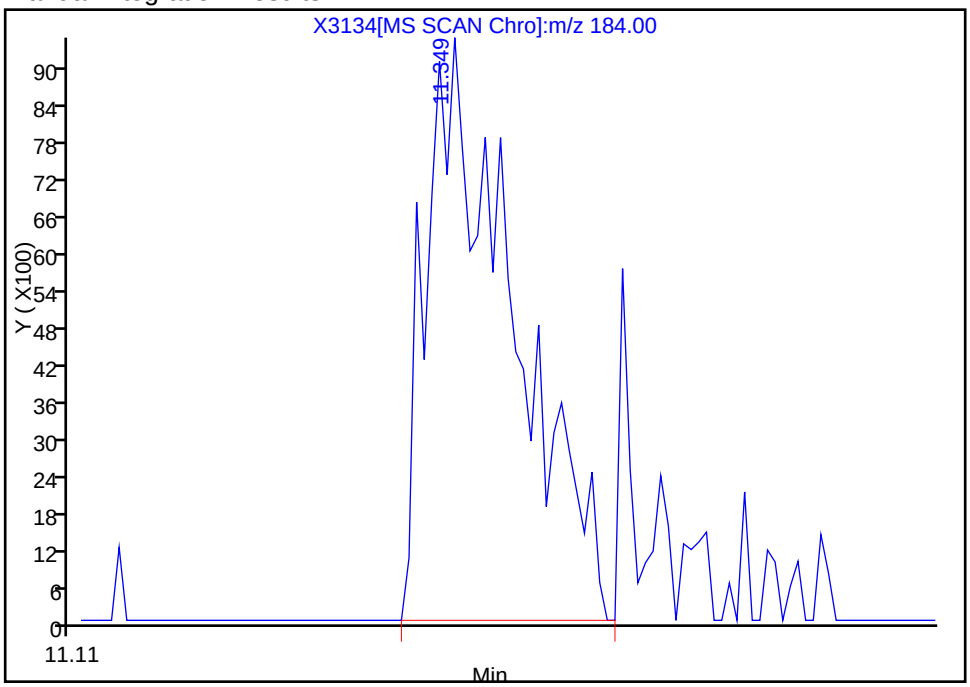
Processing Integration Results

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

Manual Integration/User Assign Peak Report

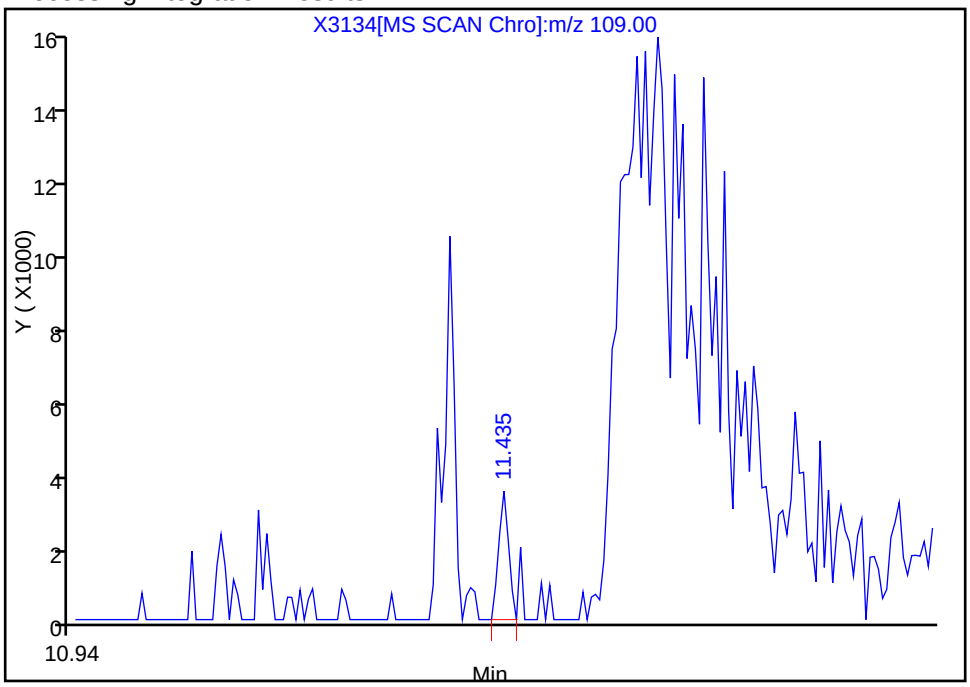
TestAmerica Buffalo

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

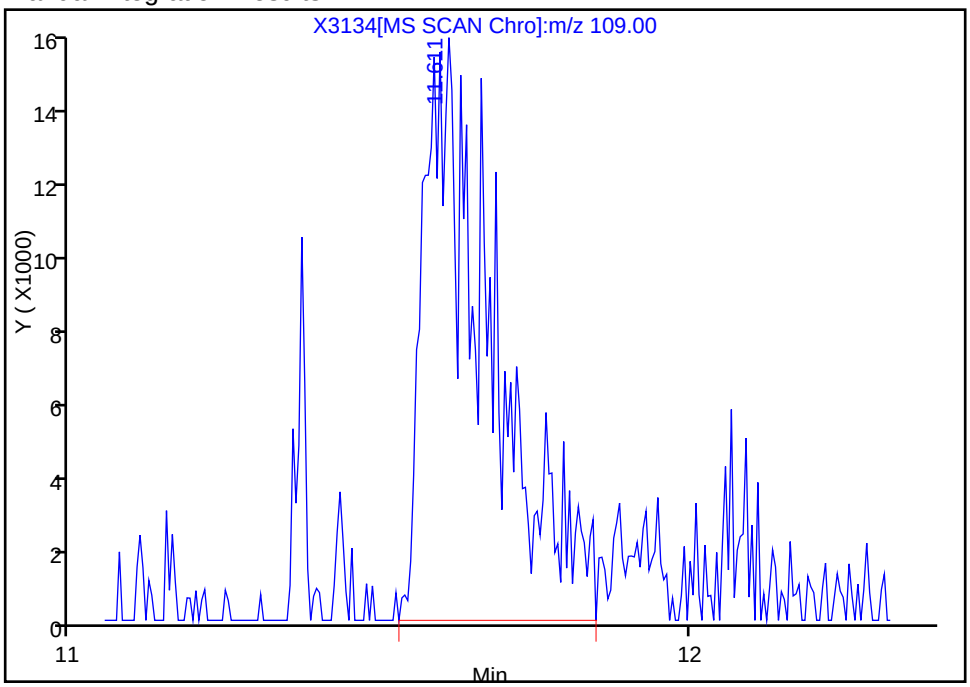
Processing Integration Results

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

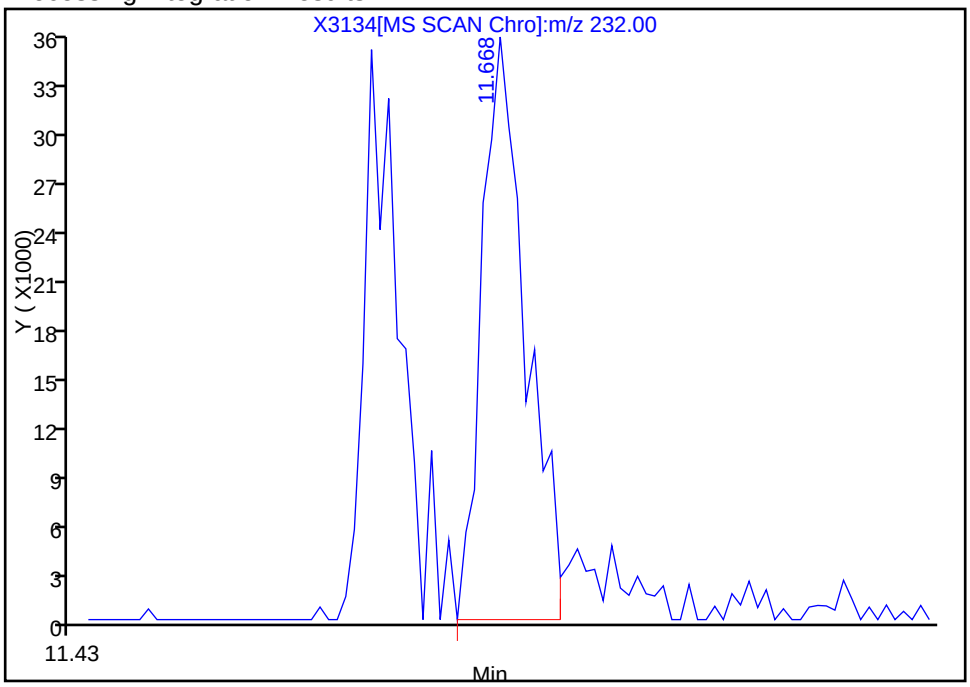
TestAmerica Buffalo

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

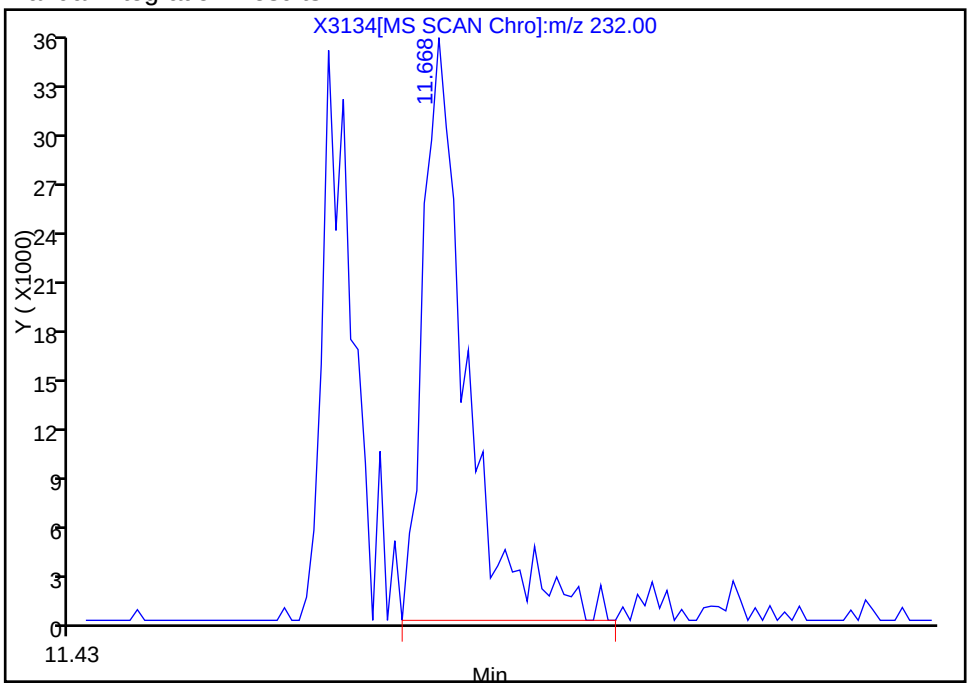
Processing Integration Results

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

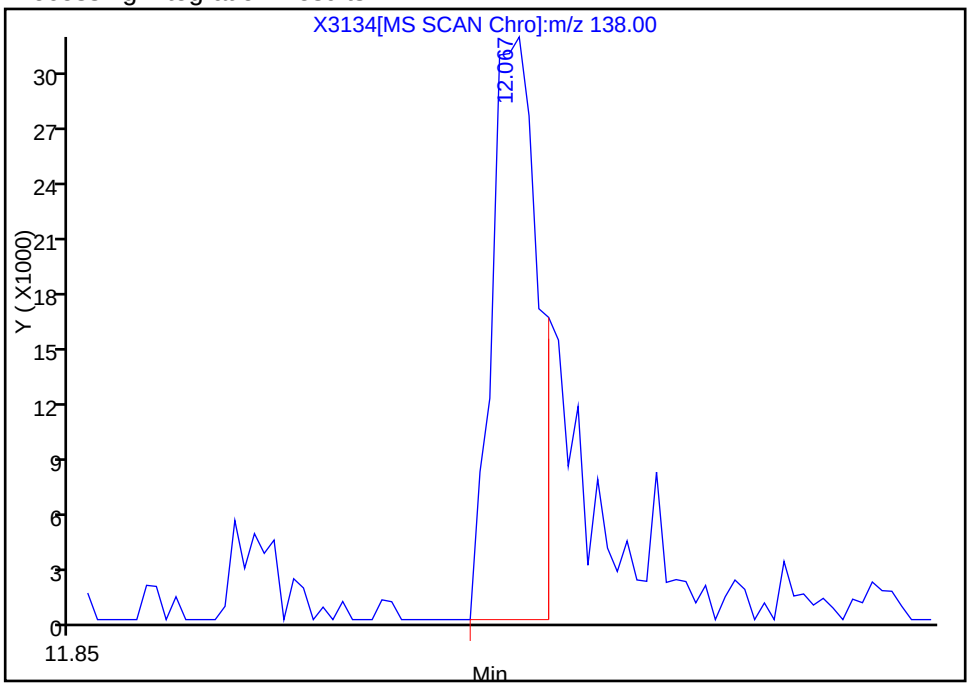
TestAmerica Buffalo

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

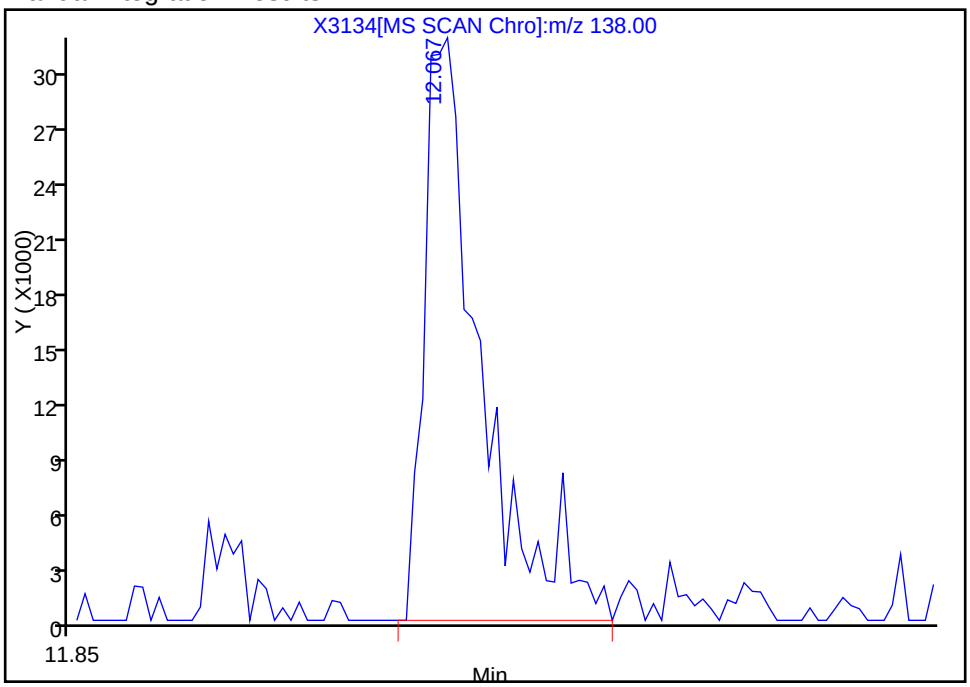
Processing Integration Results

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

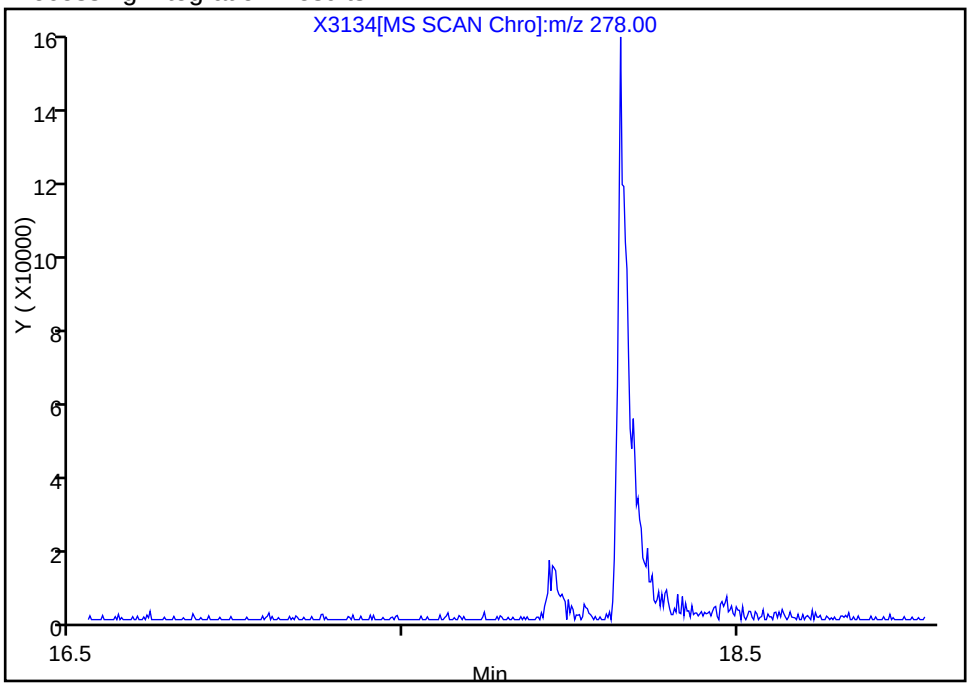
TestAmerica Buffalo

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

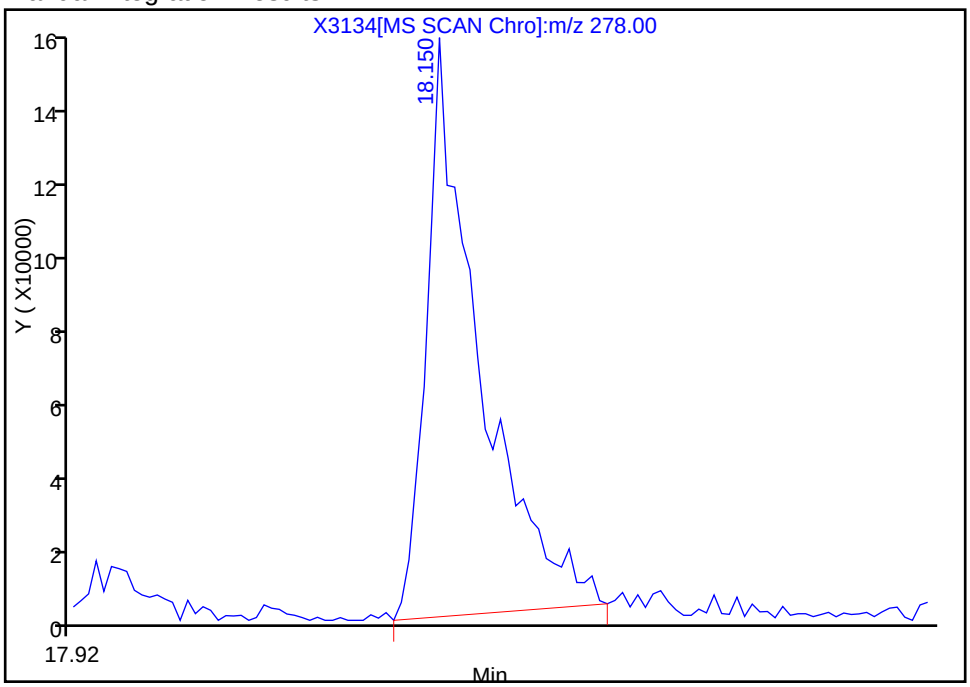
Processing Integration Results

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

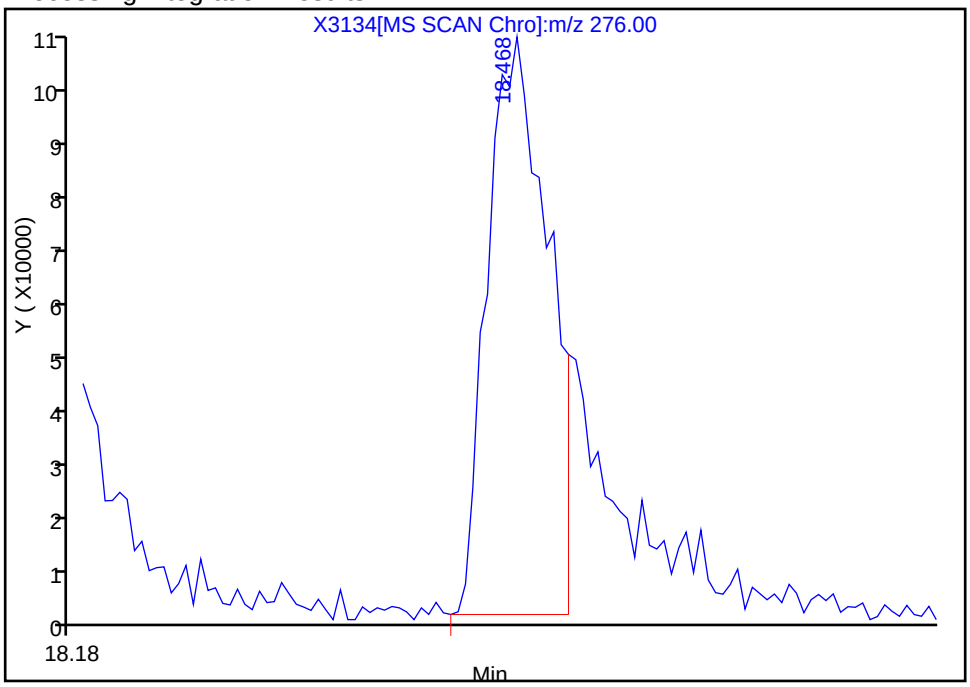
TestAmerica Buffalo

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

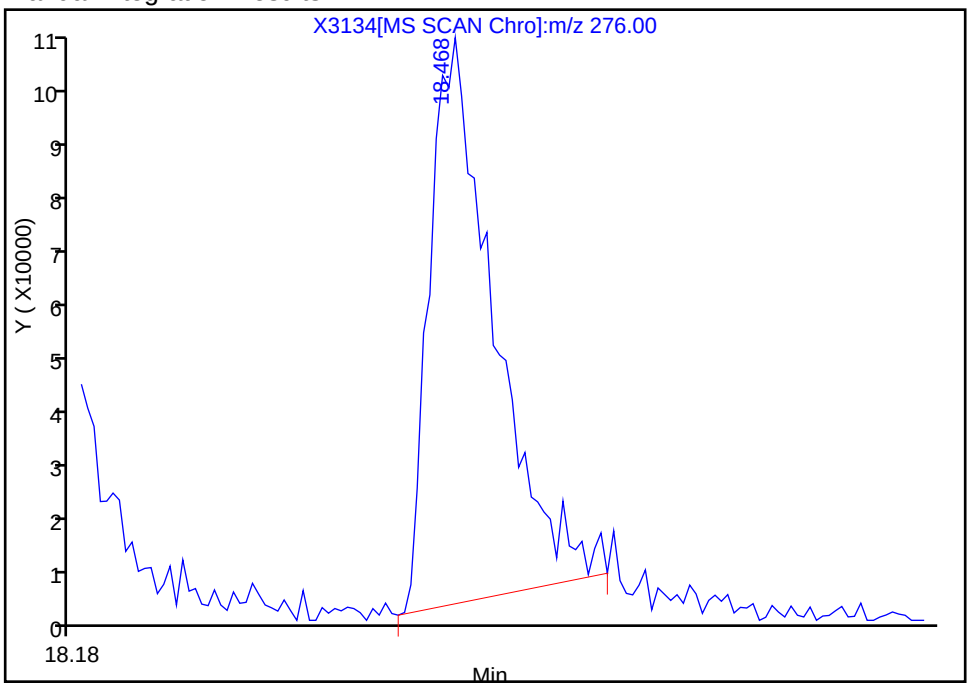
Processing Integration Results

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

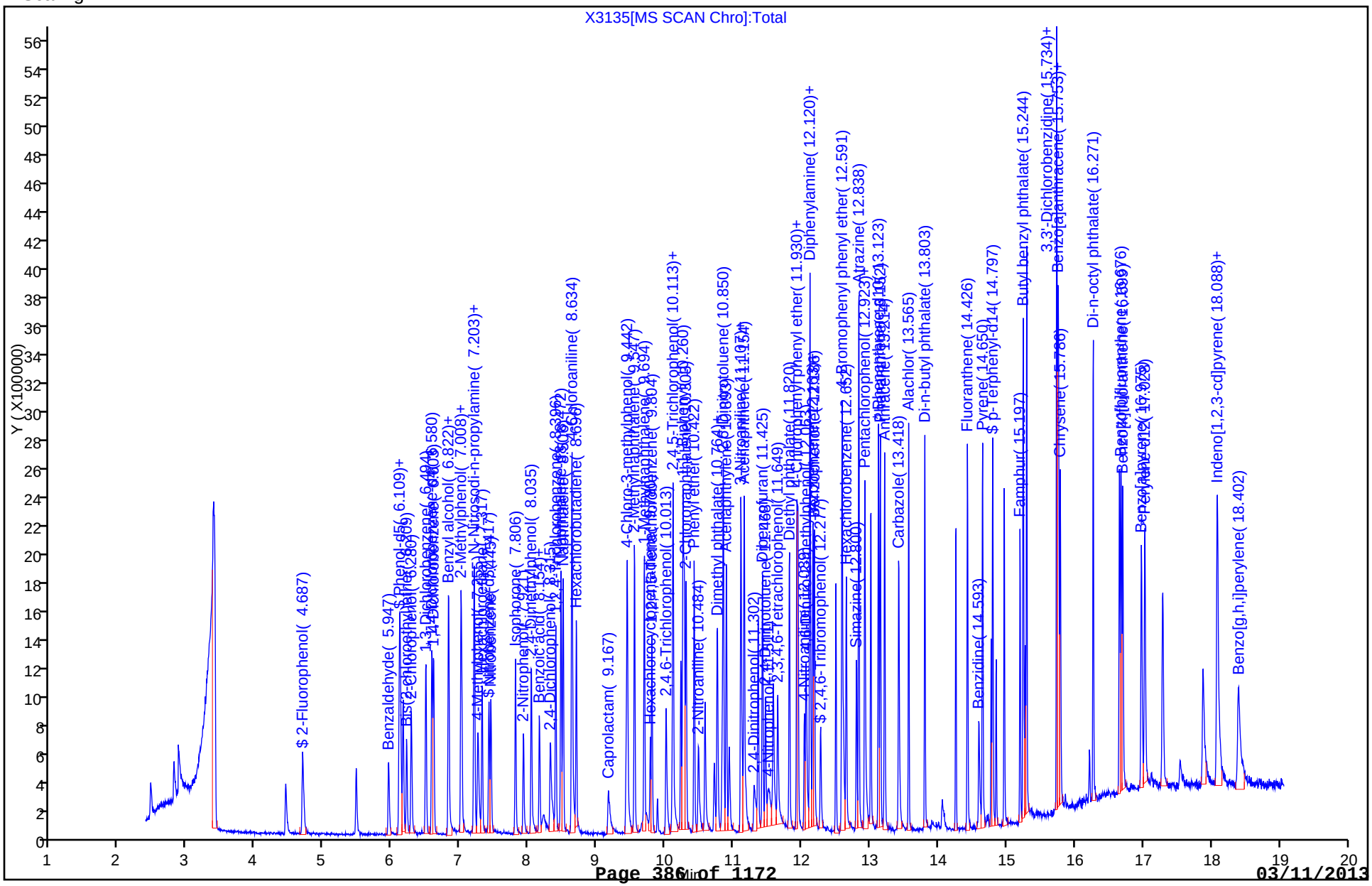
Review Flags
M - Manually Integrated

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

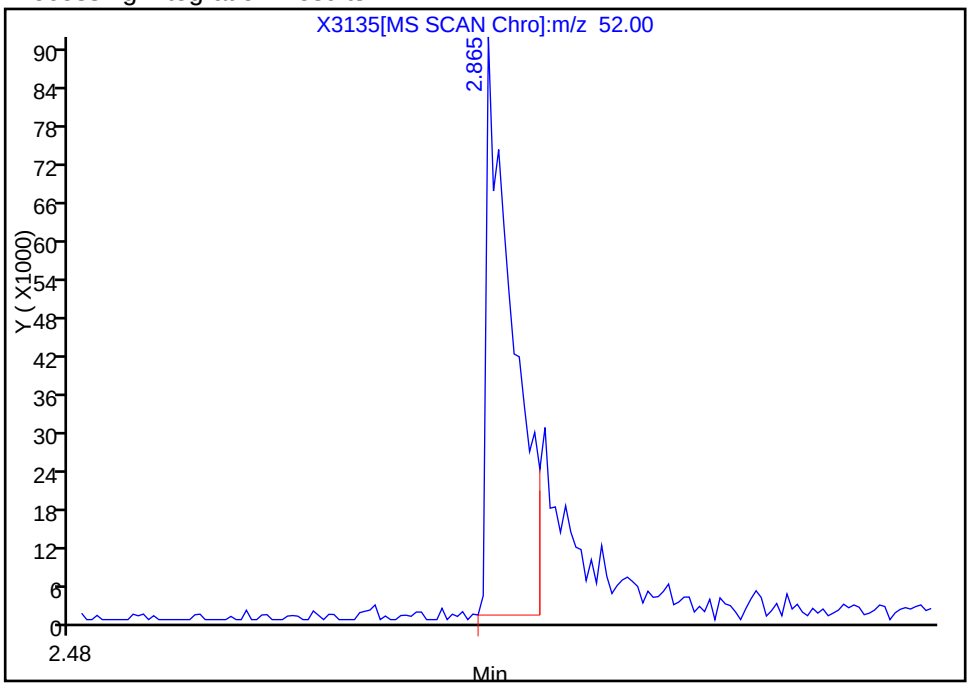
TestAmerica Buffalo

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

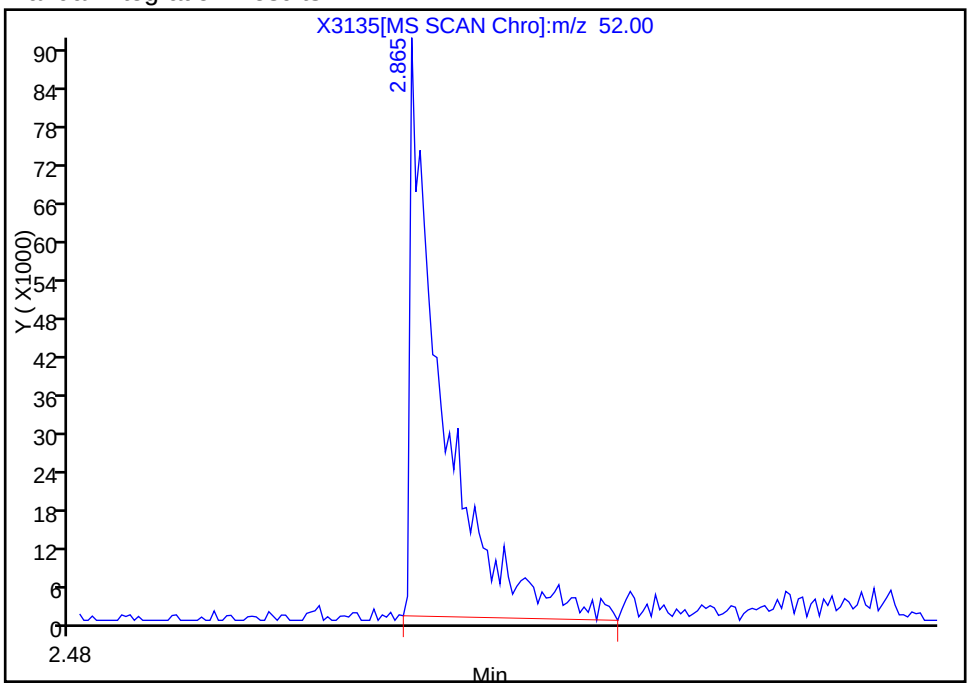
Processing Integration Results

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

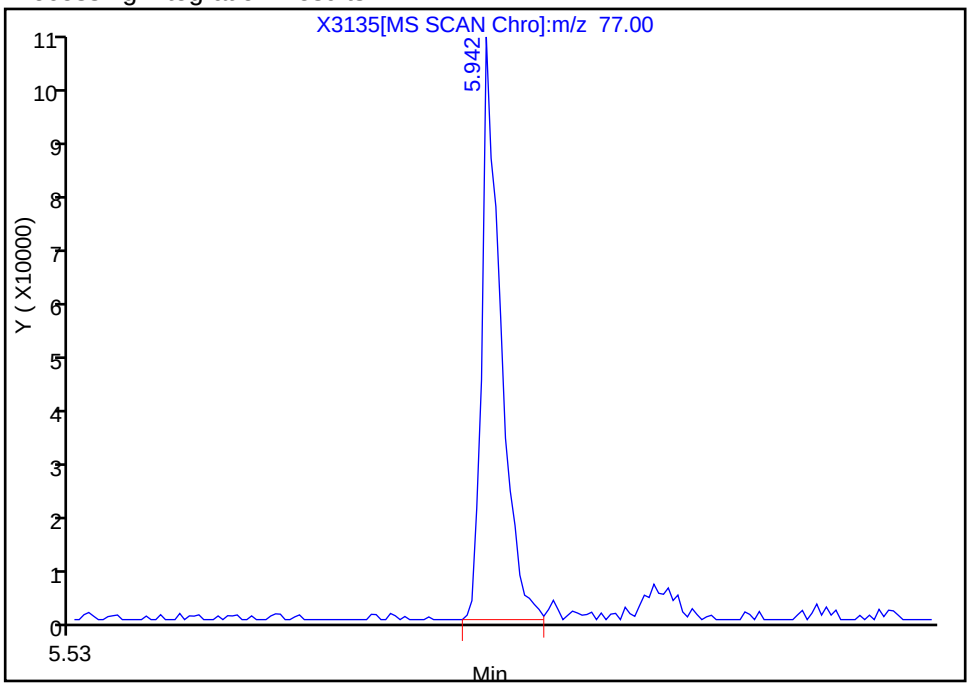
TestAmerica Buffalo

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

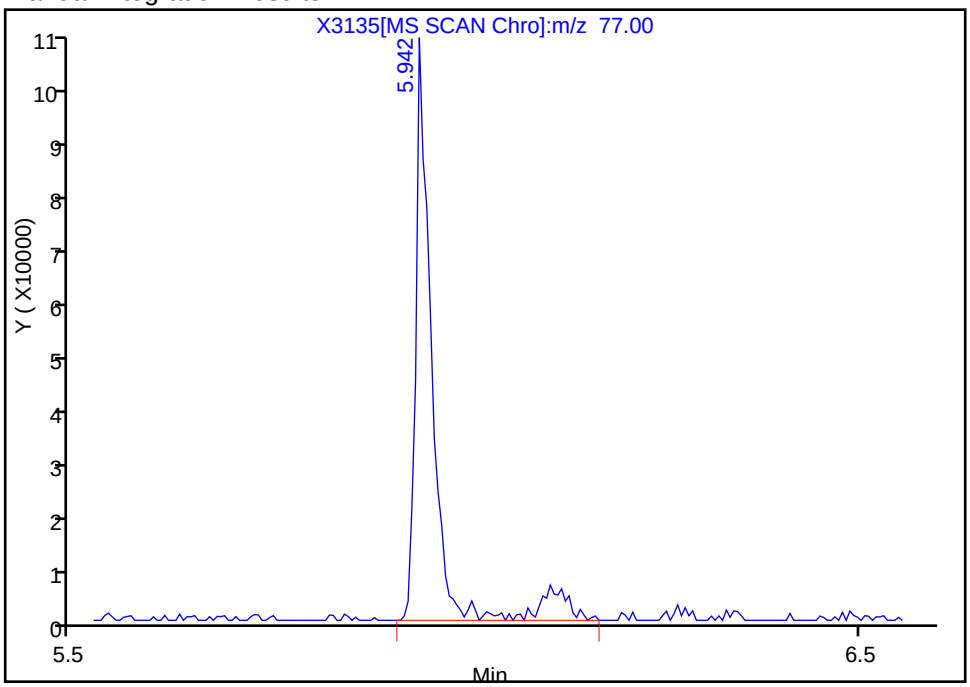
Processing Integration Results

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

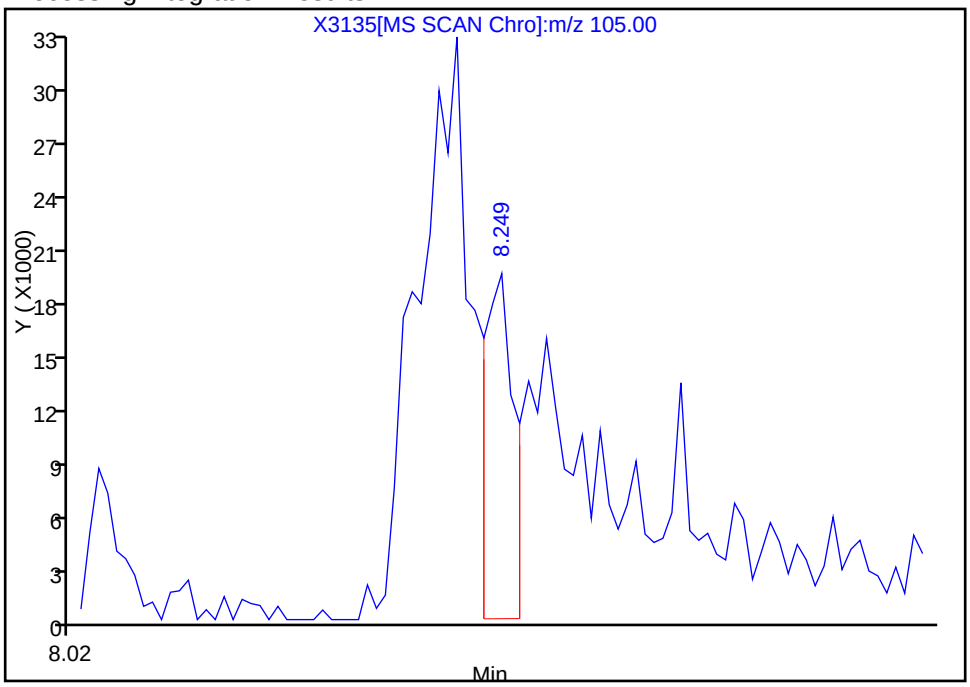
TestAmerica Buffalo

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

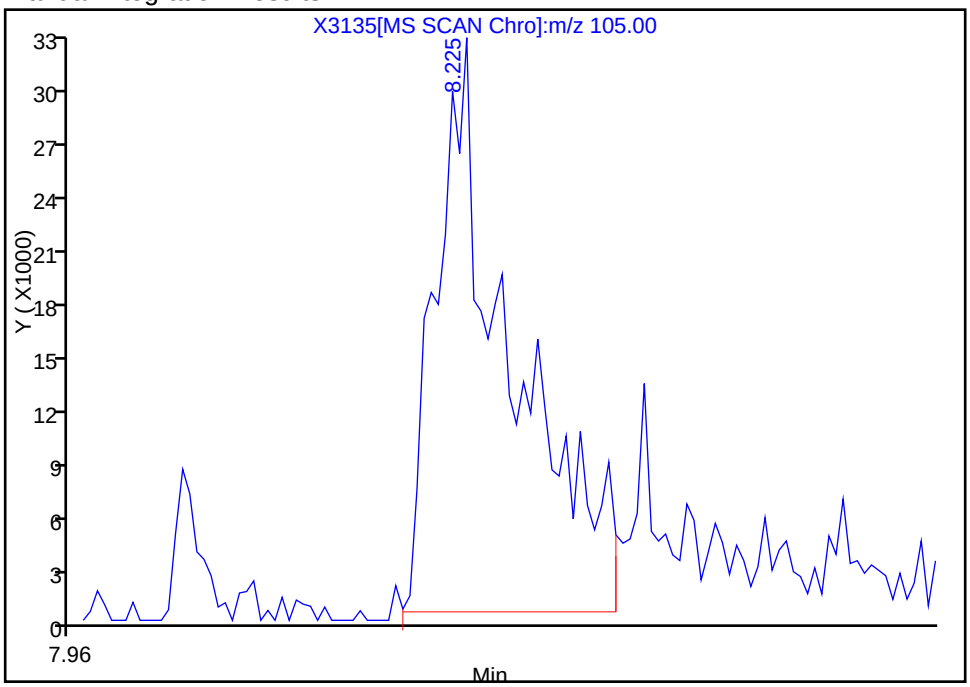
Processing Integration Results

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

Report Date: 18-Dec-2012 16:43:10 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

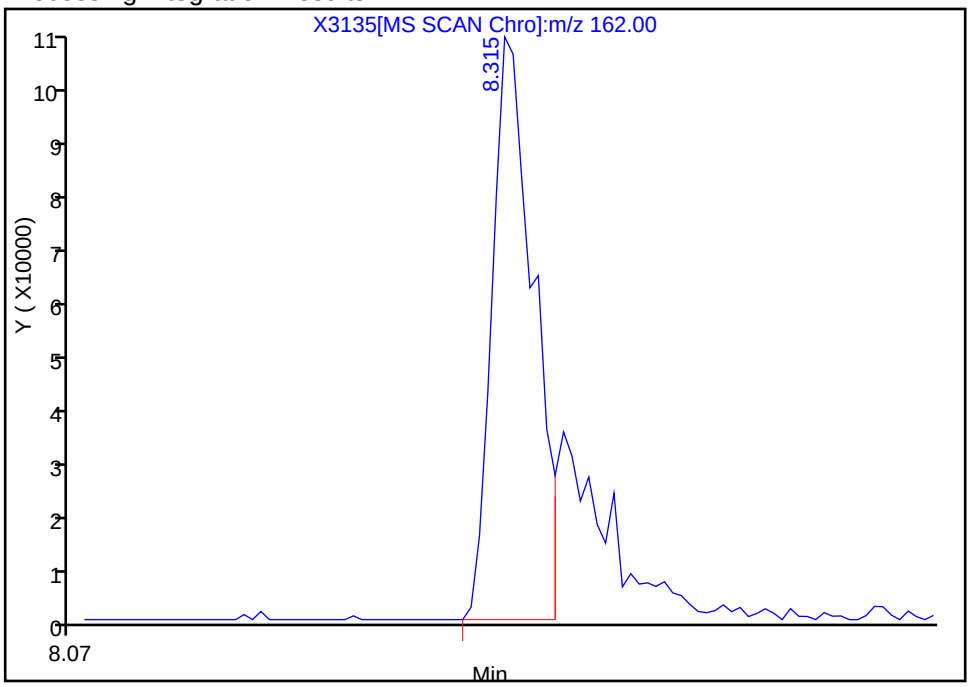
TestAmerica Buffalo

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

47 2,4-Dichlorophenol, Signal: 1, m/z: 162.0 Type: quant, RT: 8.32

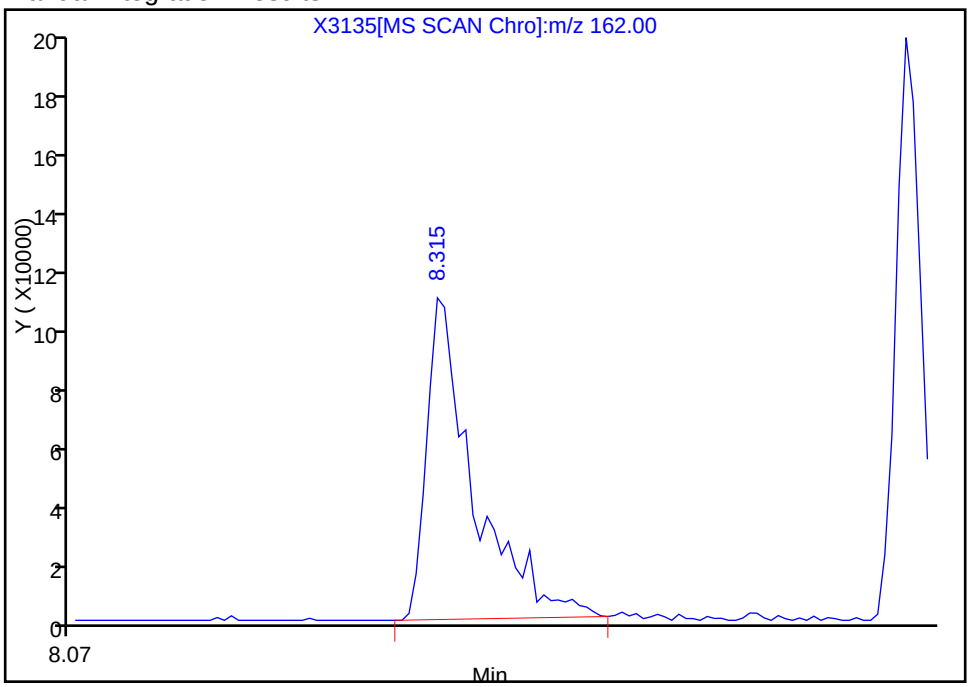
Processing Integration Results

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

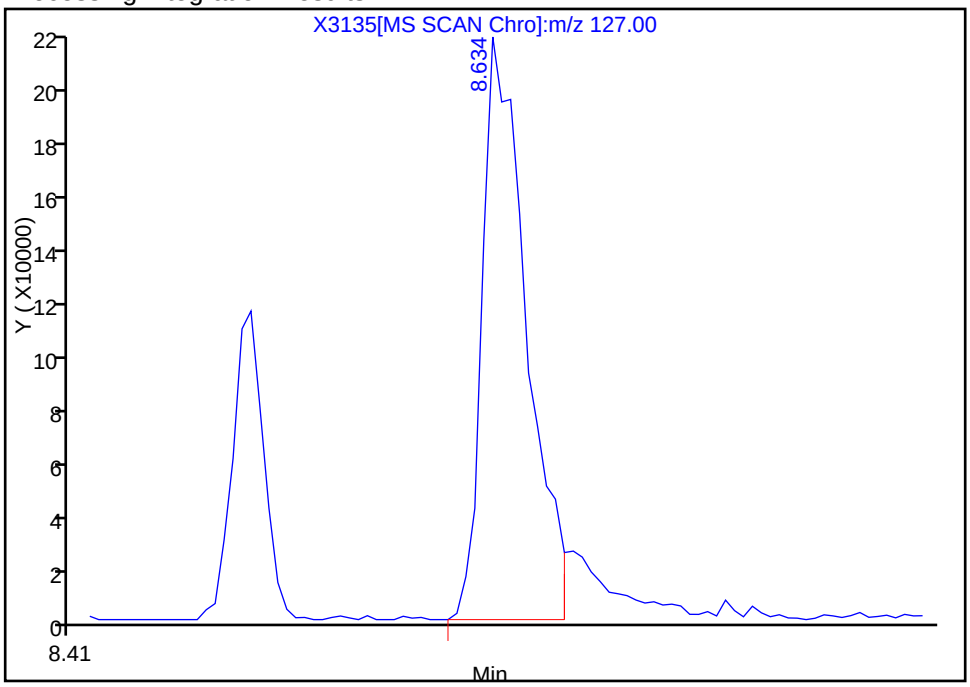
TestAmerica Buffalo

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

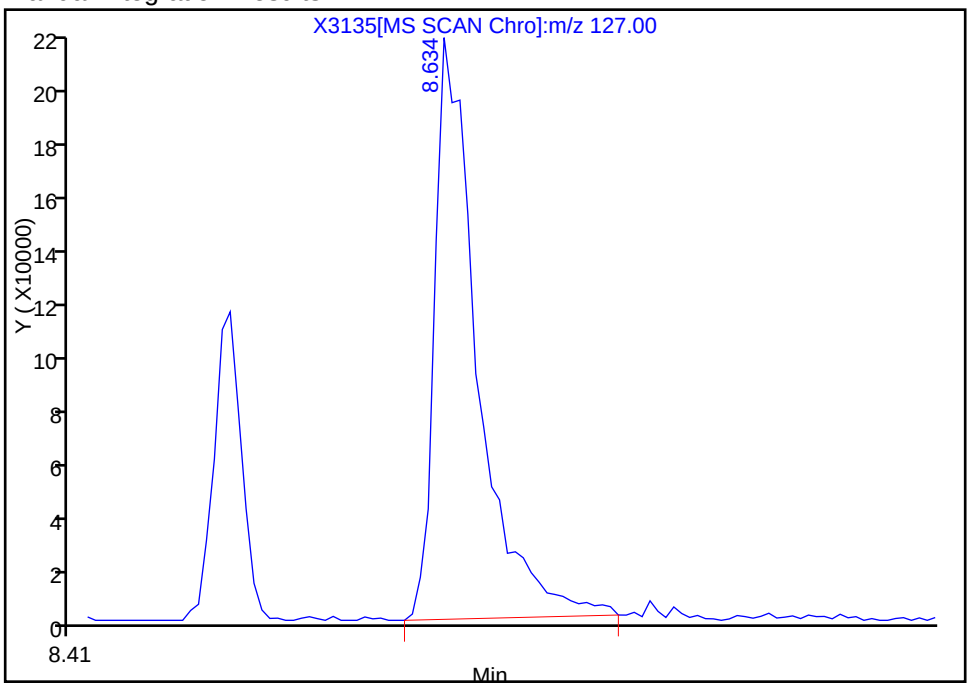
Processing Integration Results

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

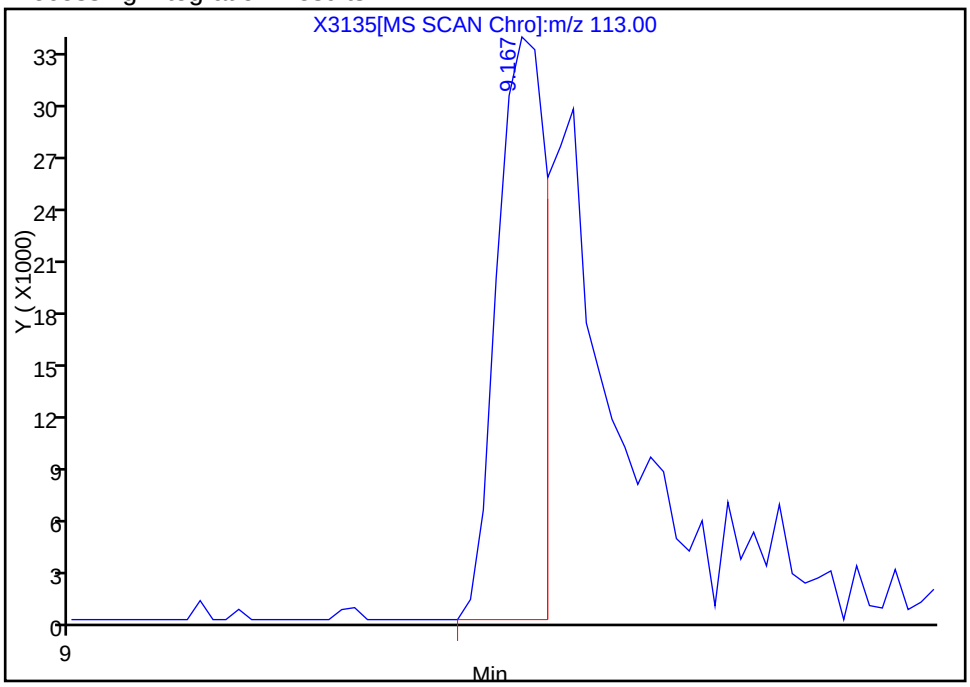
TestAmerica Buffalo

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

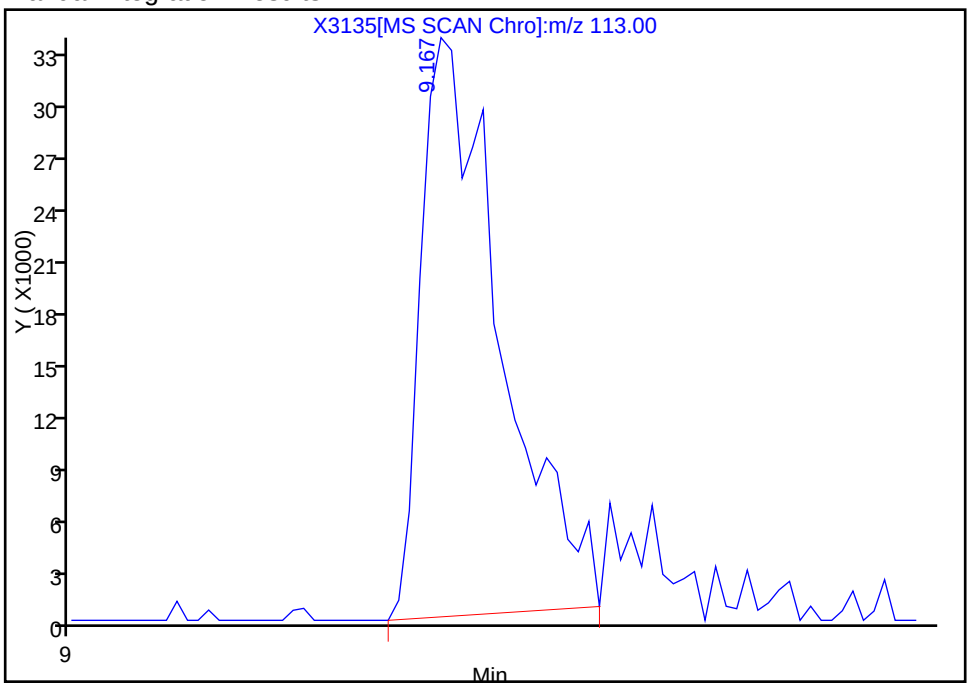
Processing Integration Results

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

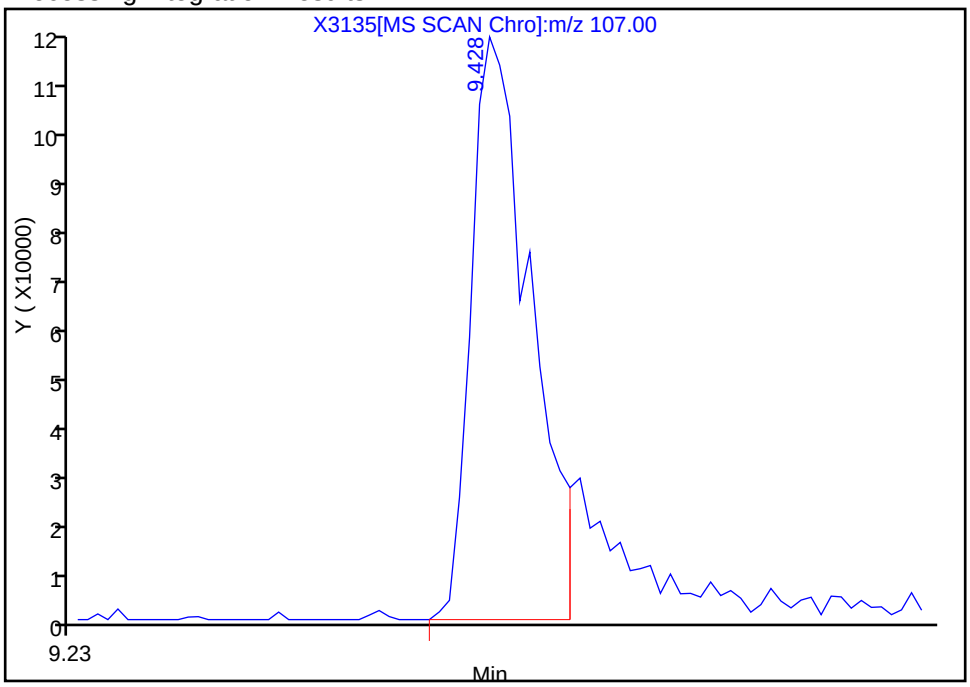
TestAmerica Buffalo

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

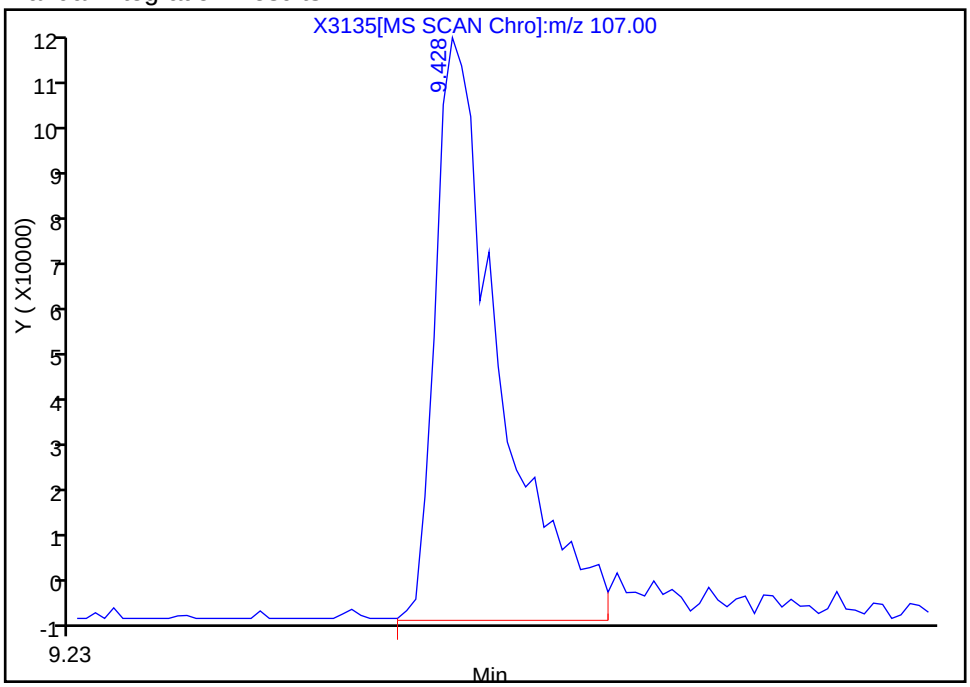
Processing Integration Results

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

Manual Integration/User Assign Peak Report

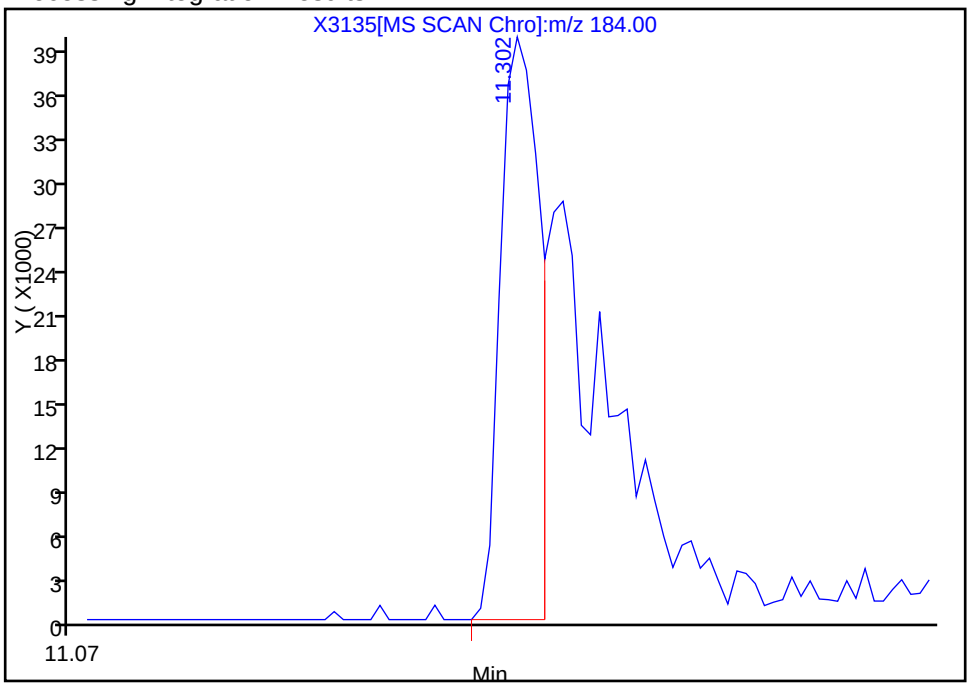
TestAmerica Buffalo

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

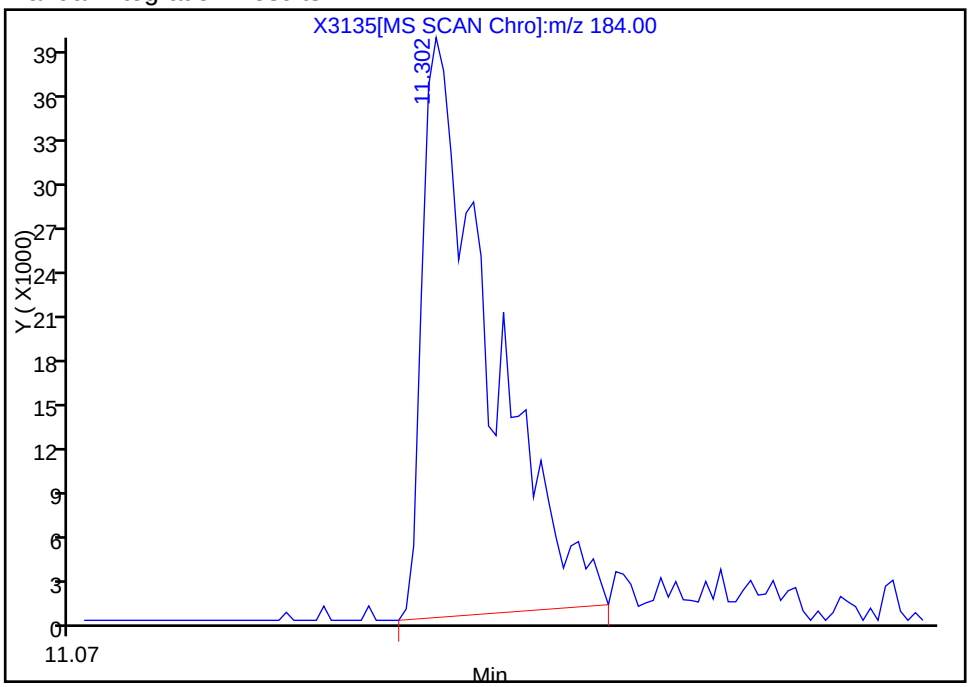
Processing Integration Results

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

Manual Integration/User Assign Peak Report

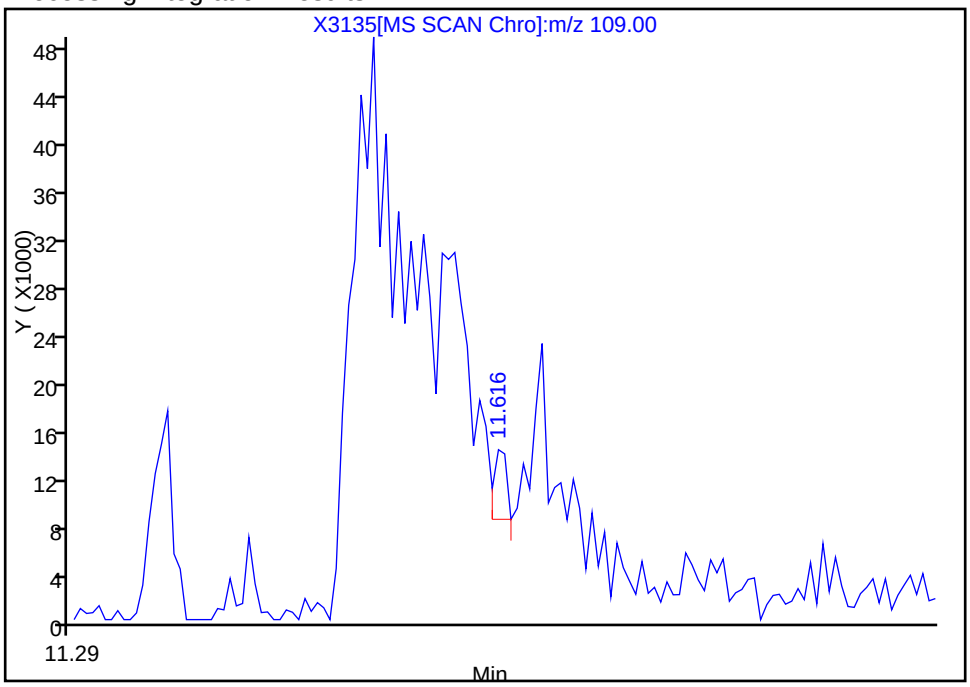
TestAmerica Buffalo

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

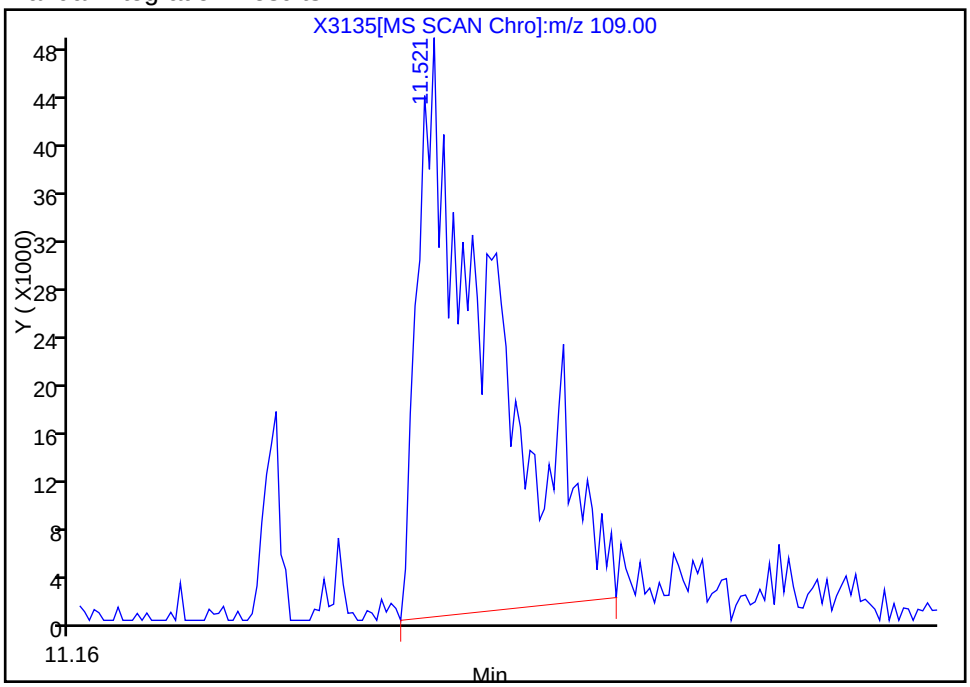
Processing Integration Results

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					

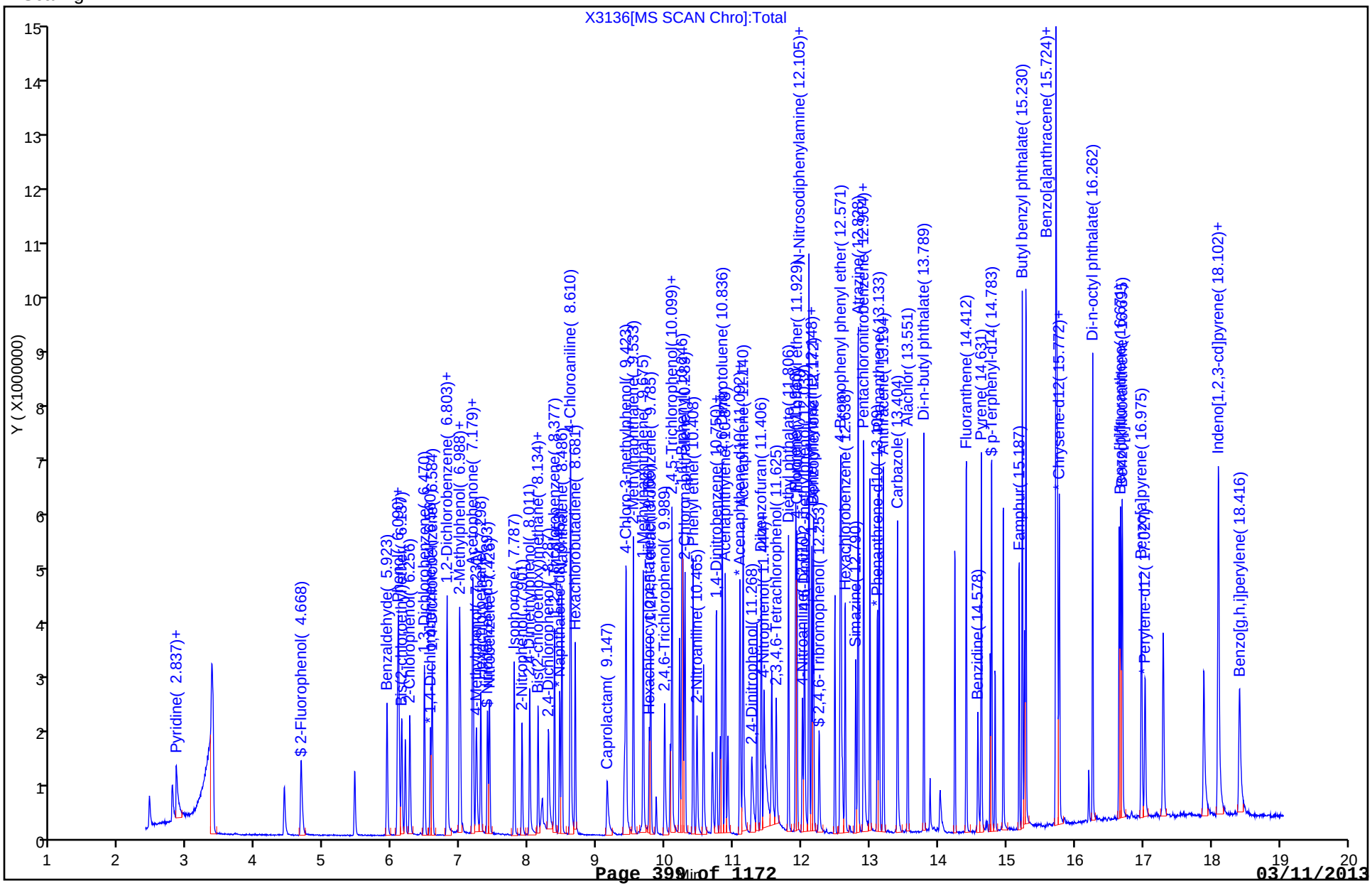
QC Flag Legend

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

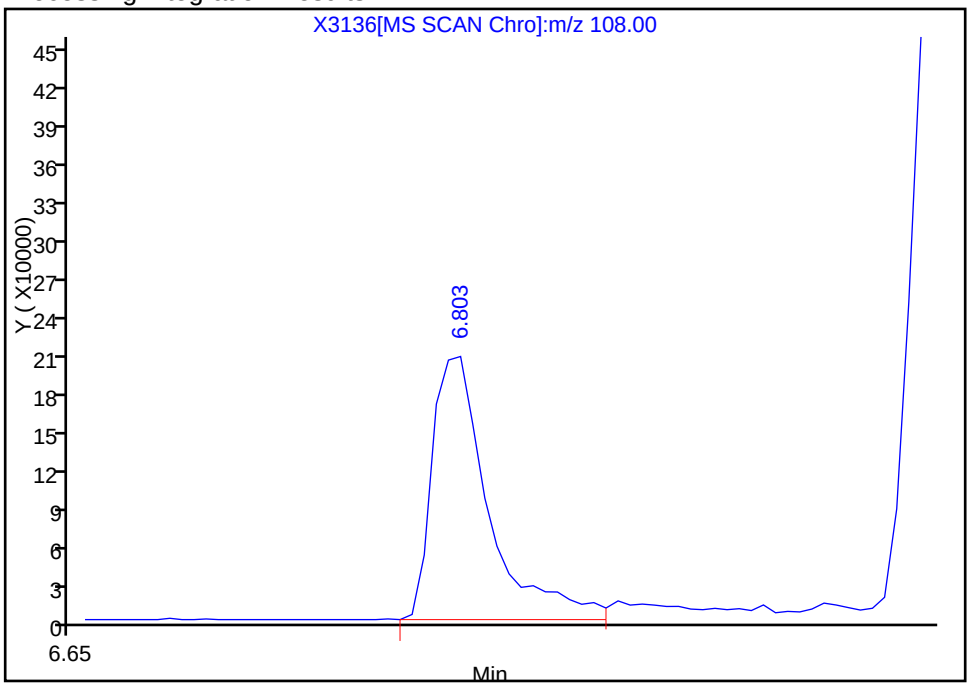
TestAmerica Buffalo

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

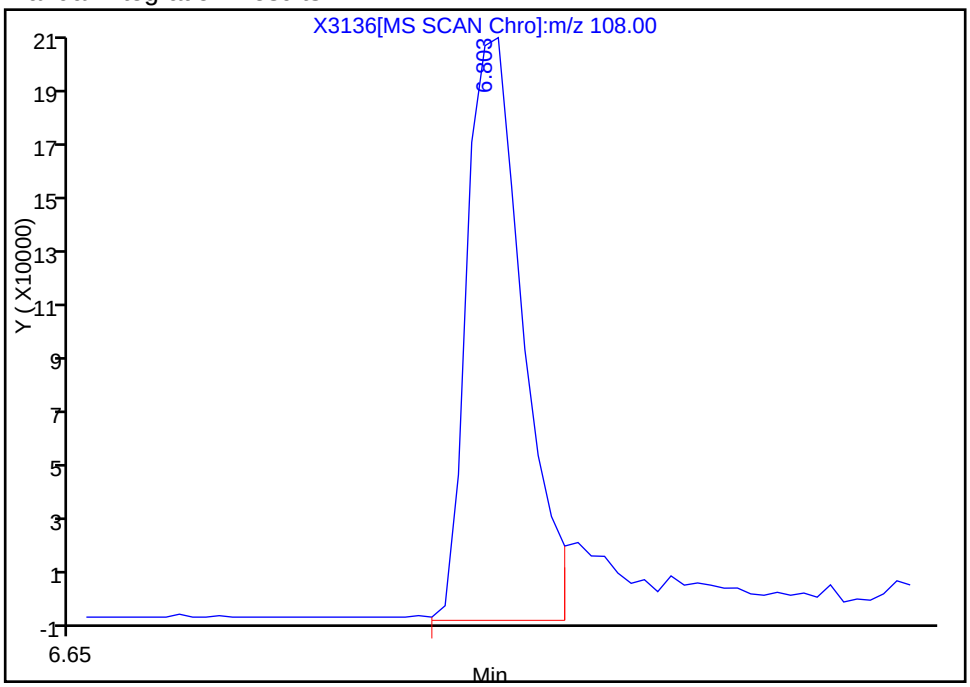
Processing Integration Results

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

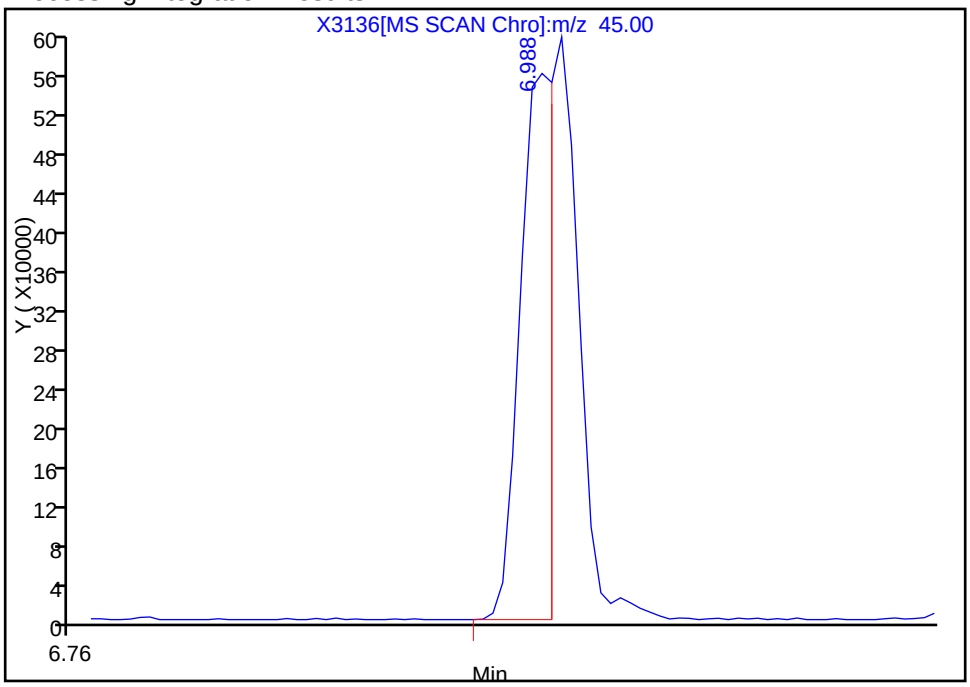
TestAmerica Buffalo

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

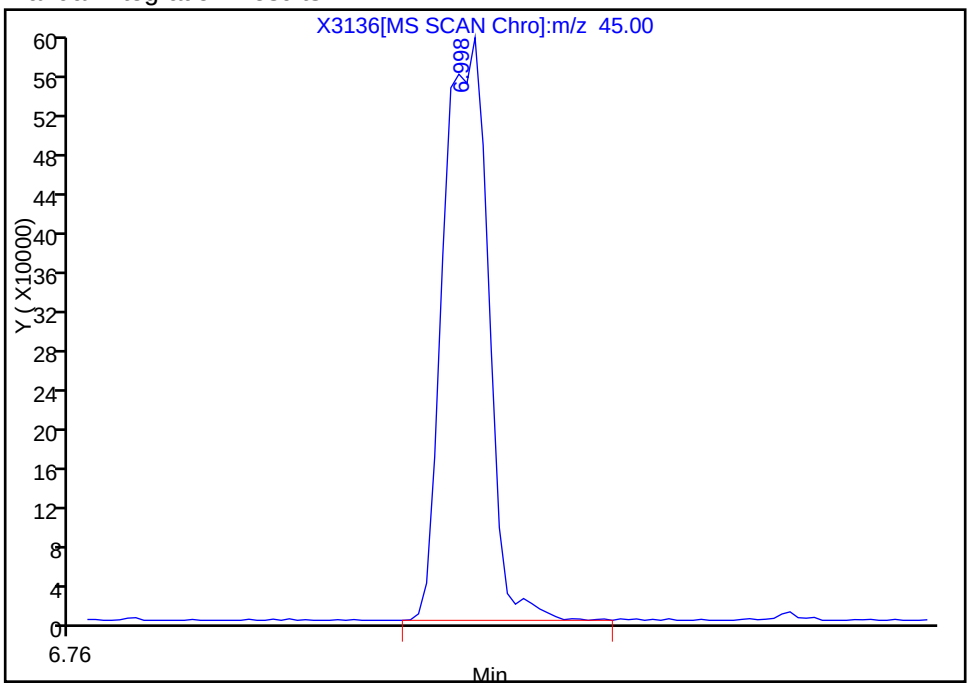
Processing Integration Results

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

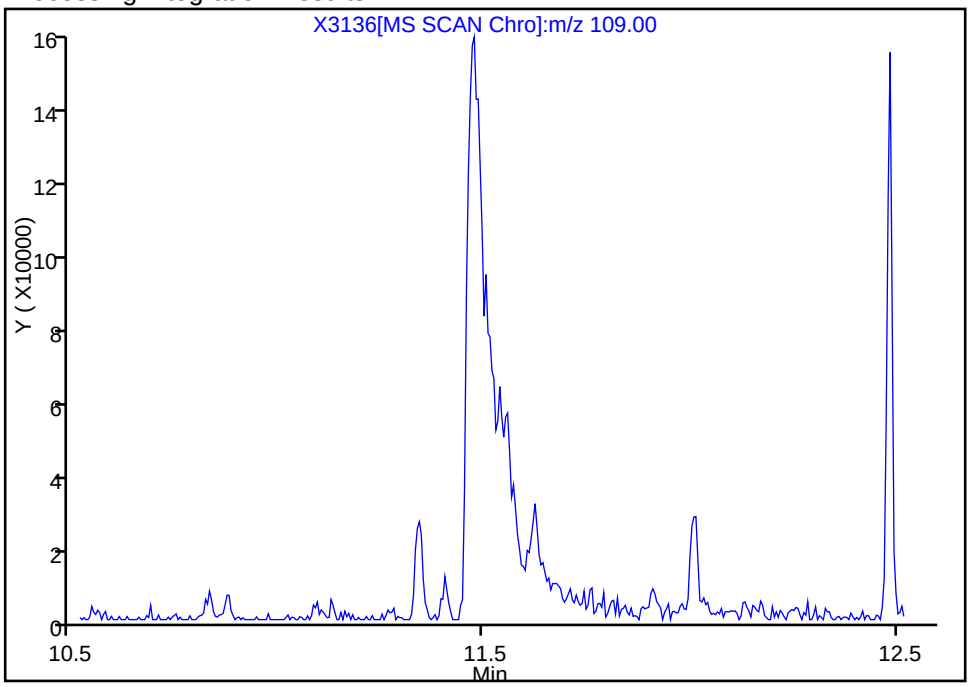
TestAmerica Buffalo

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

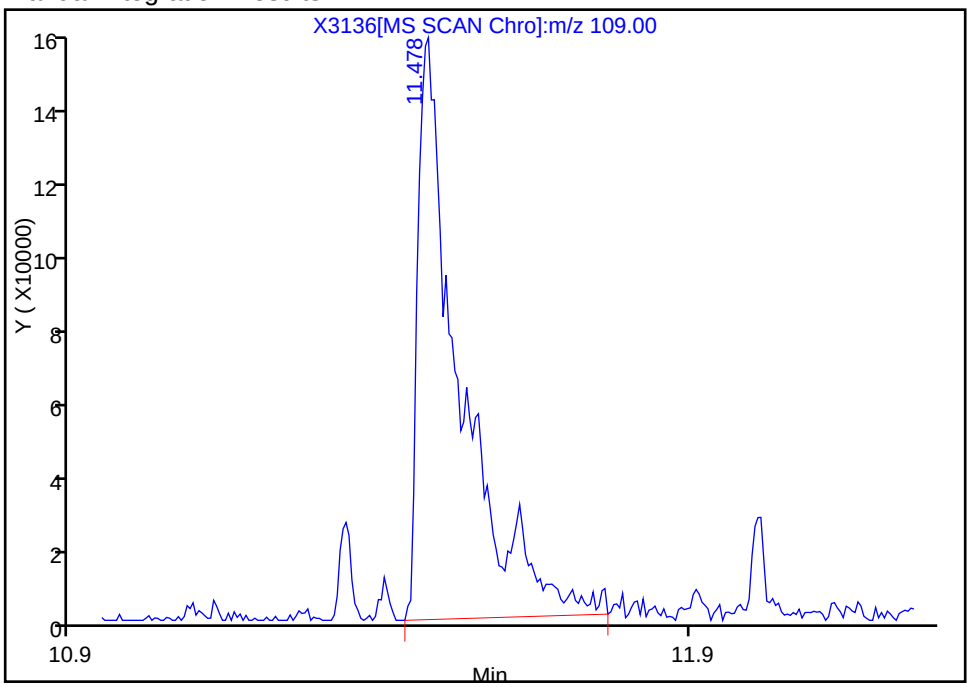
Processing Integration Results

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

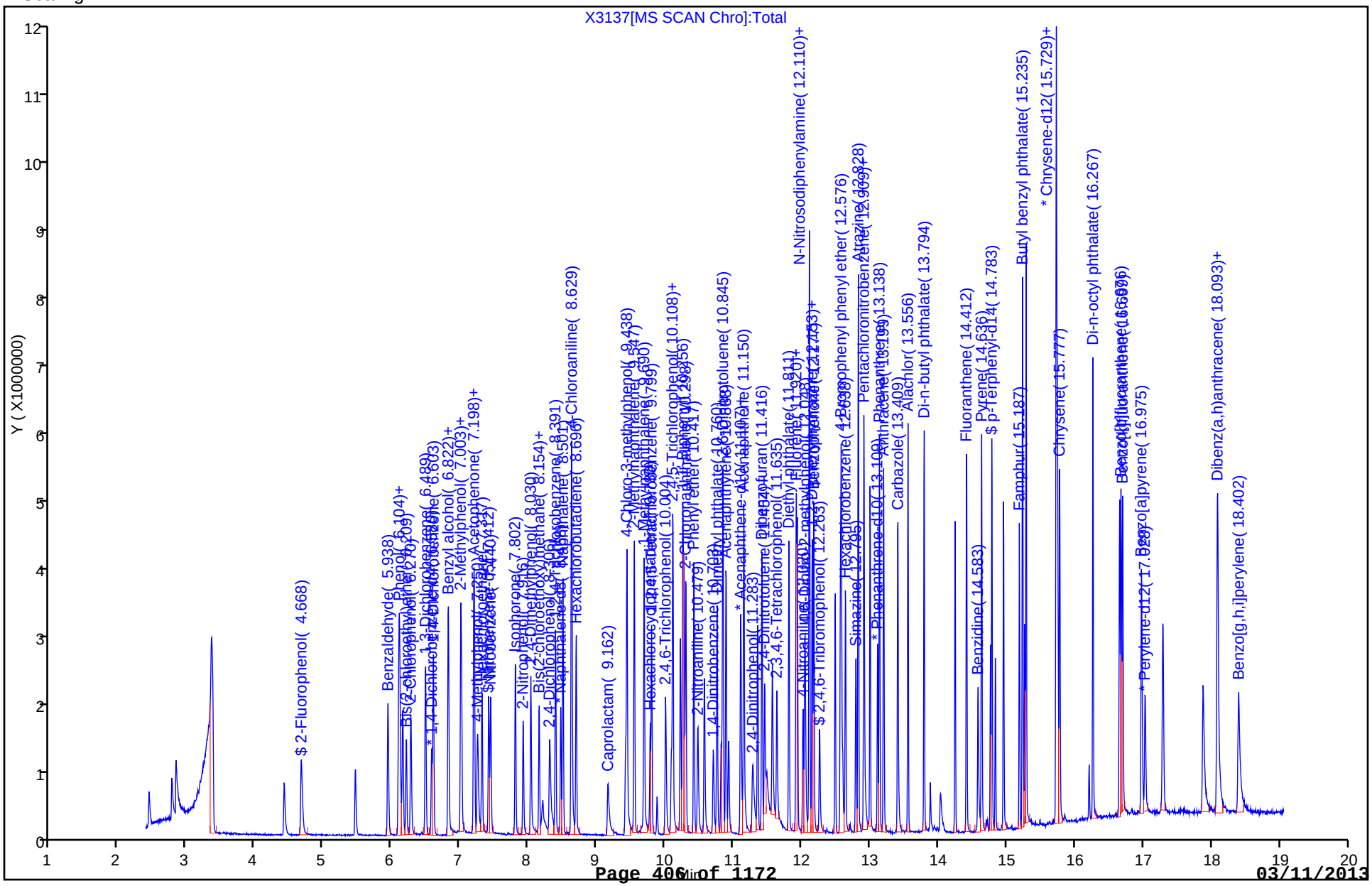
Review Flags
M - Manually Integrated

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

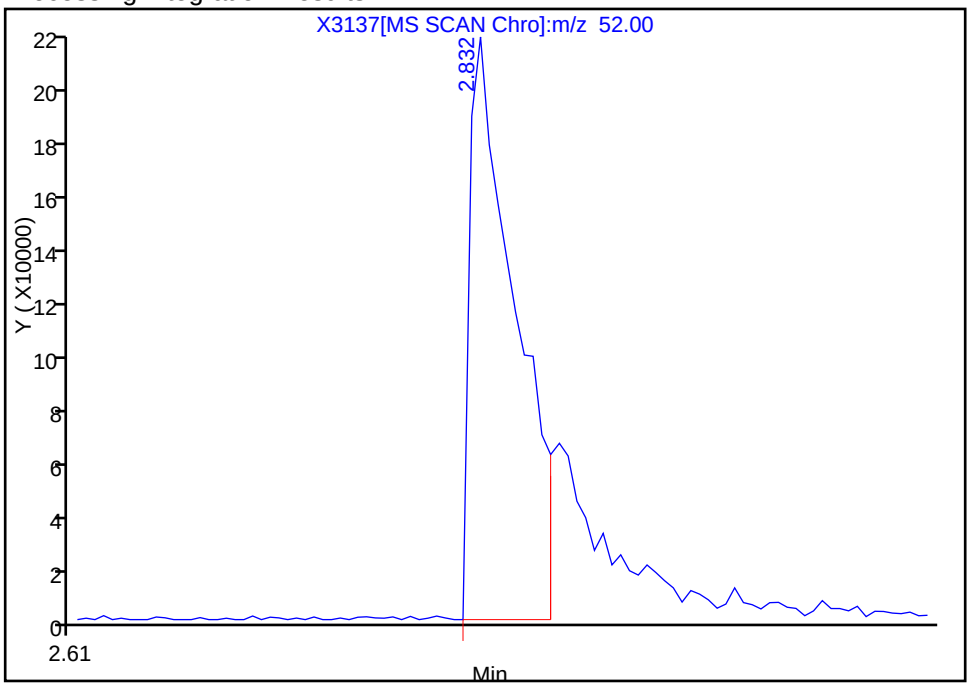
TestAmerica Buffalo

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

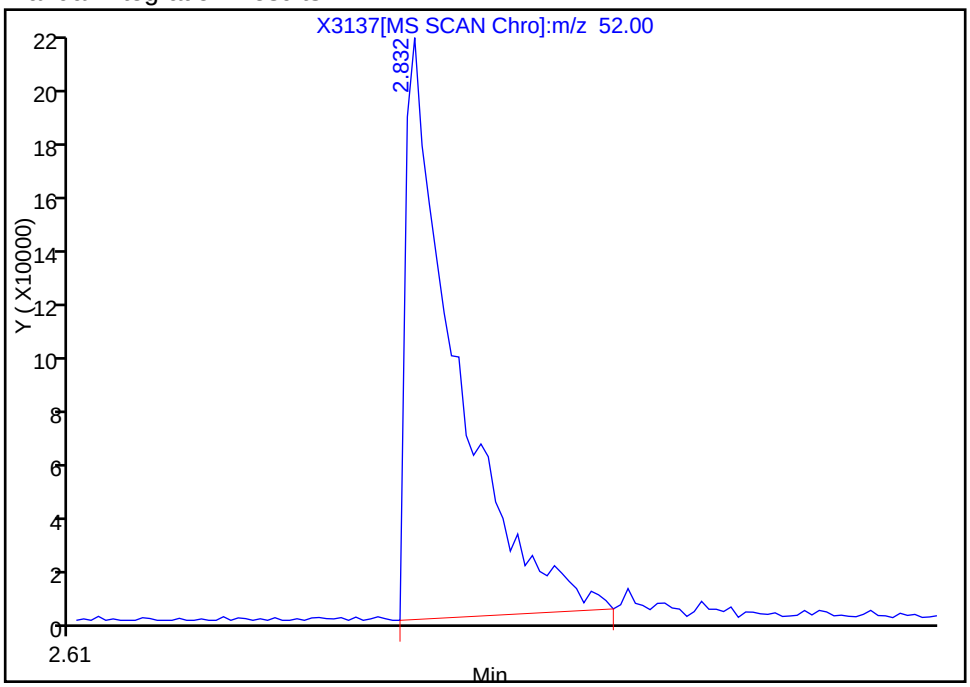
Processing Integration Results

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

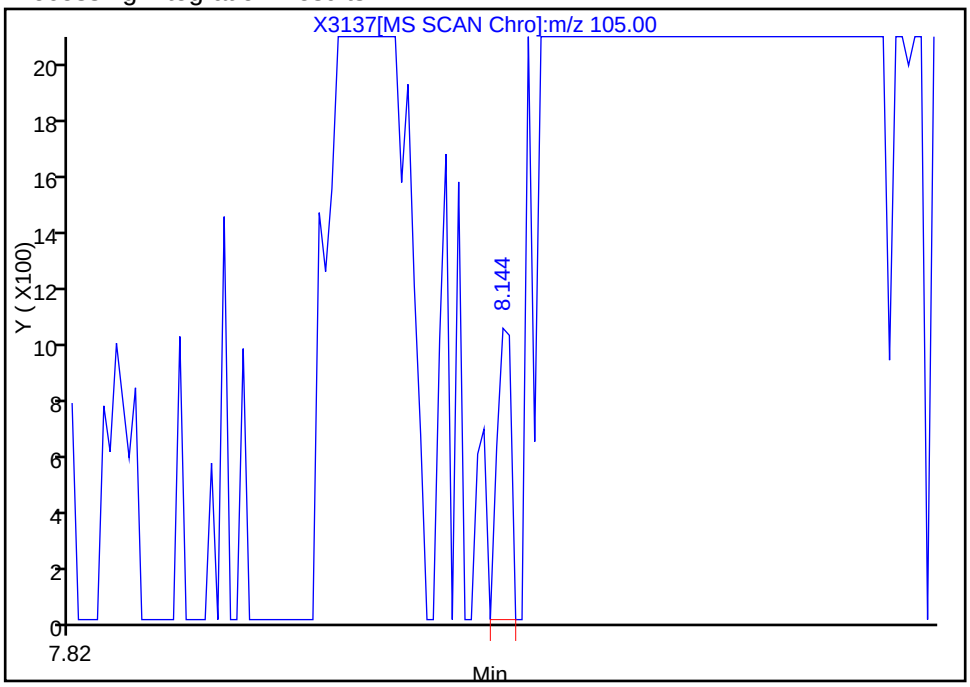
TestAmerica Buffalo

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

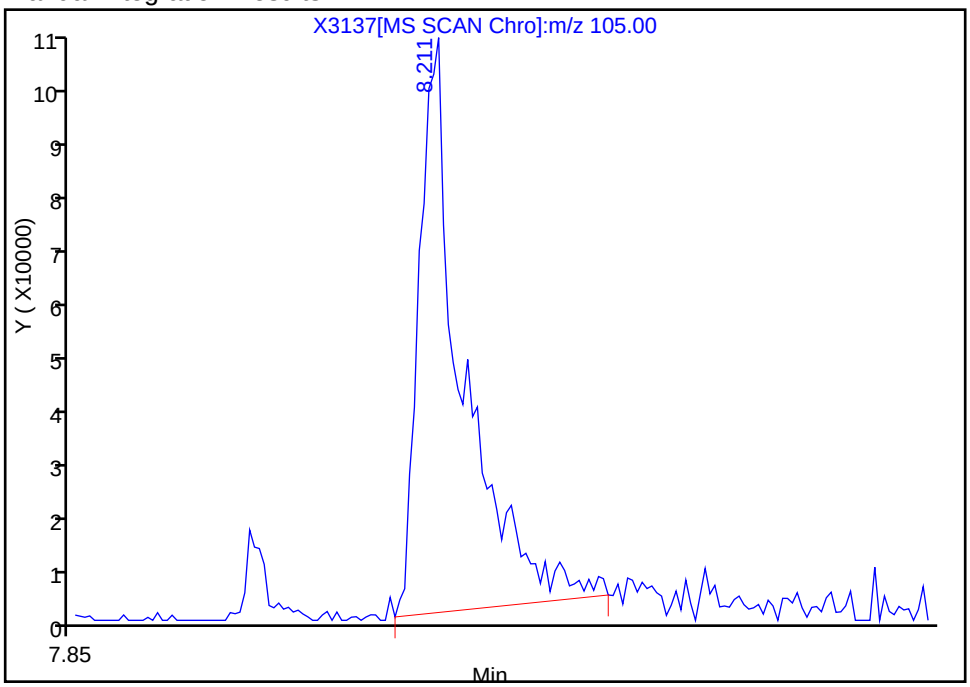
Processing Integration Results

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

Manual Integration/User Assign Peak Report

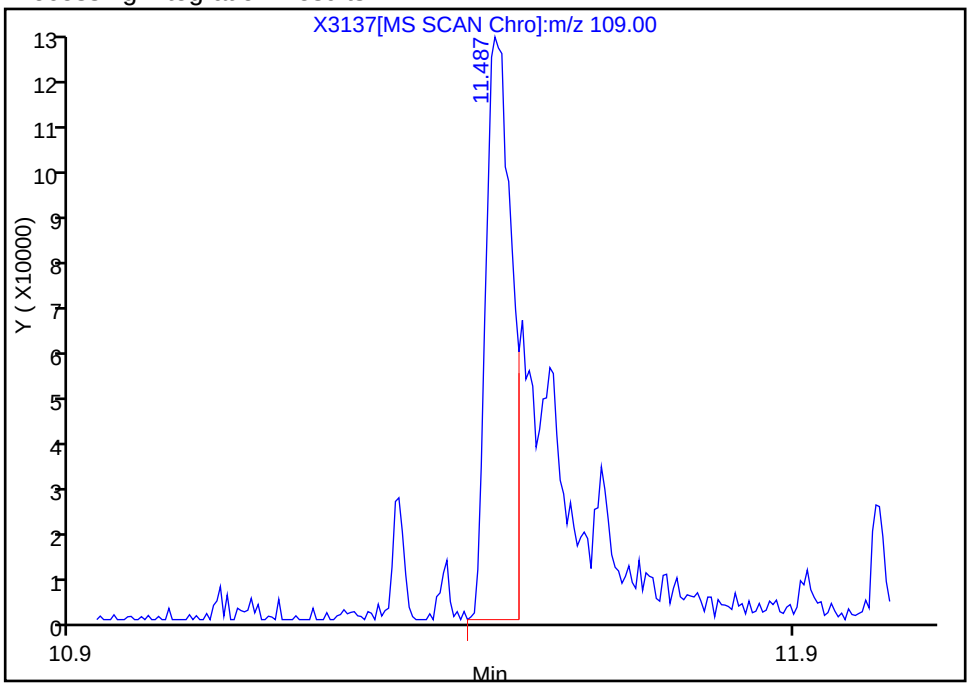
TestAmerica Buffalo

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

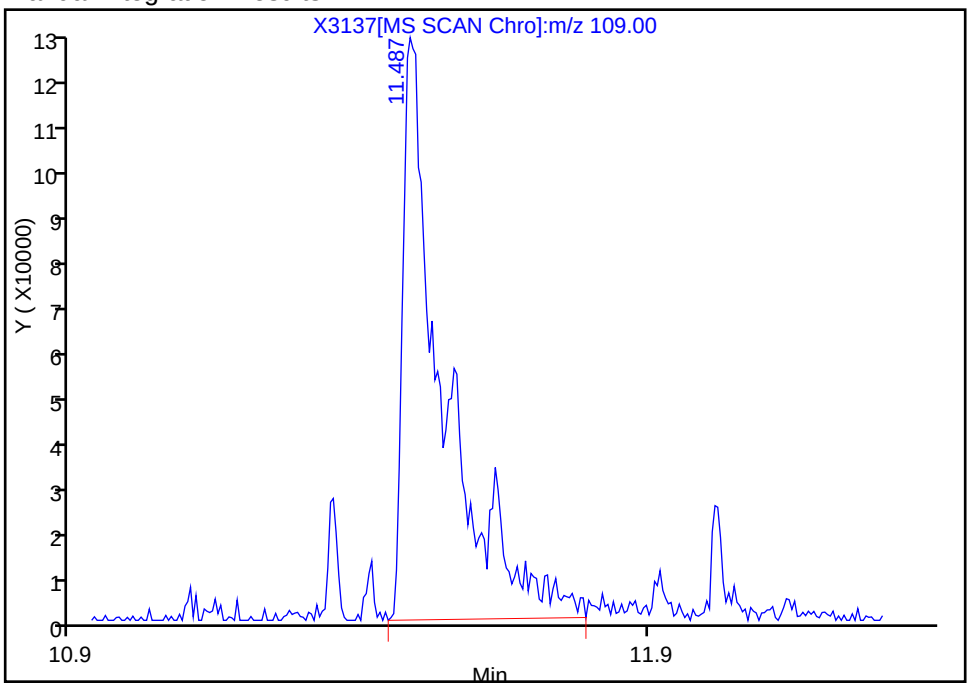
Processing Integration Results

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

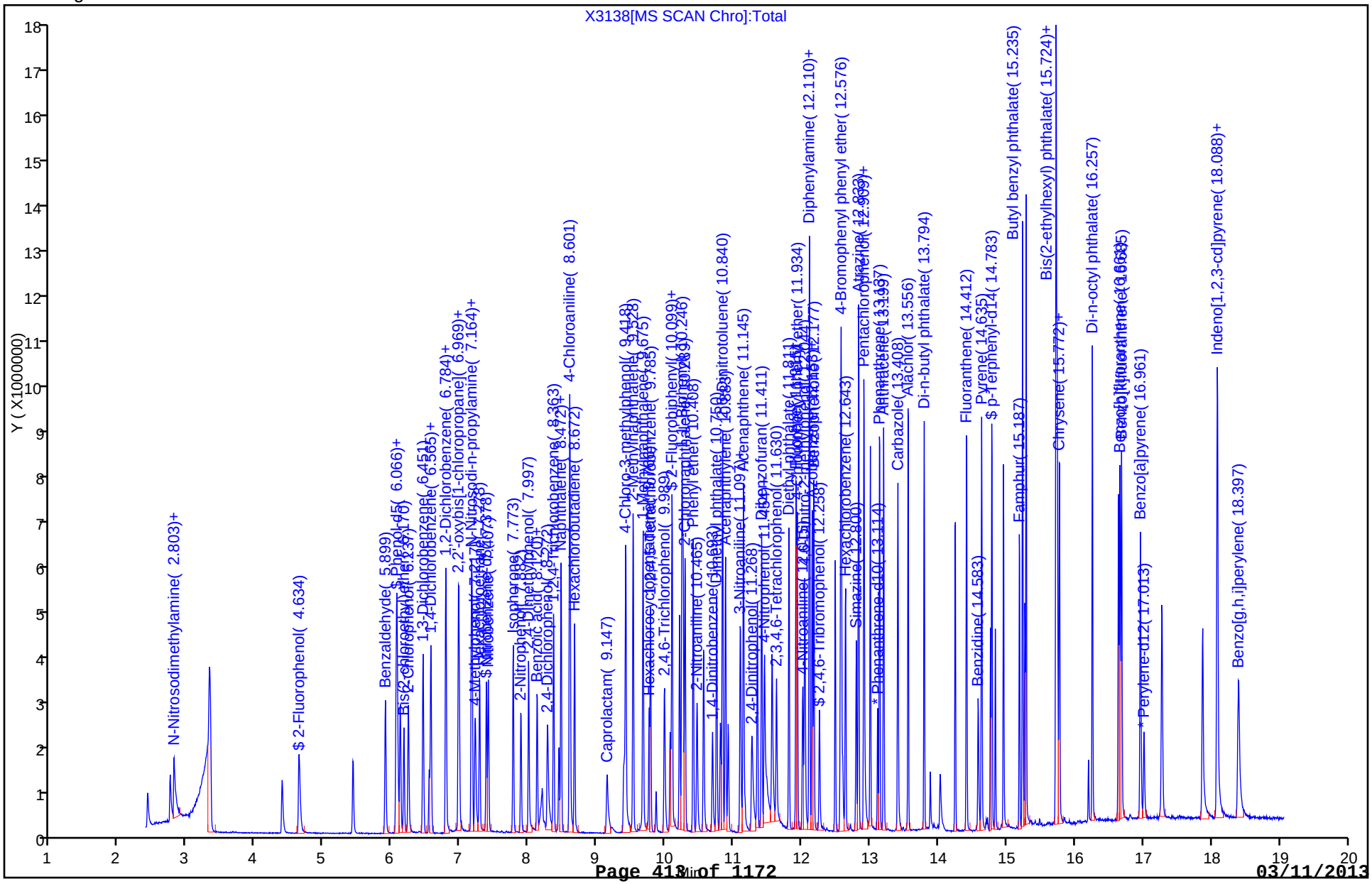
Review Flags
M - Manually Integrated

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

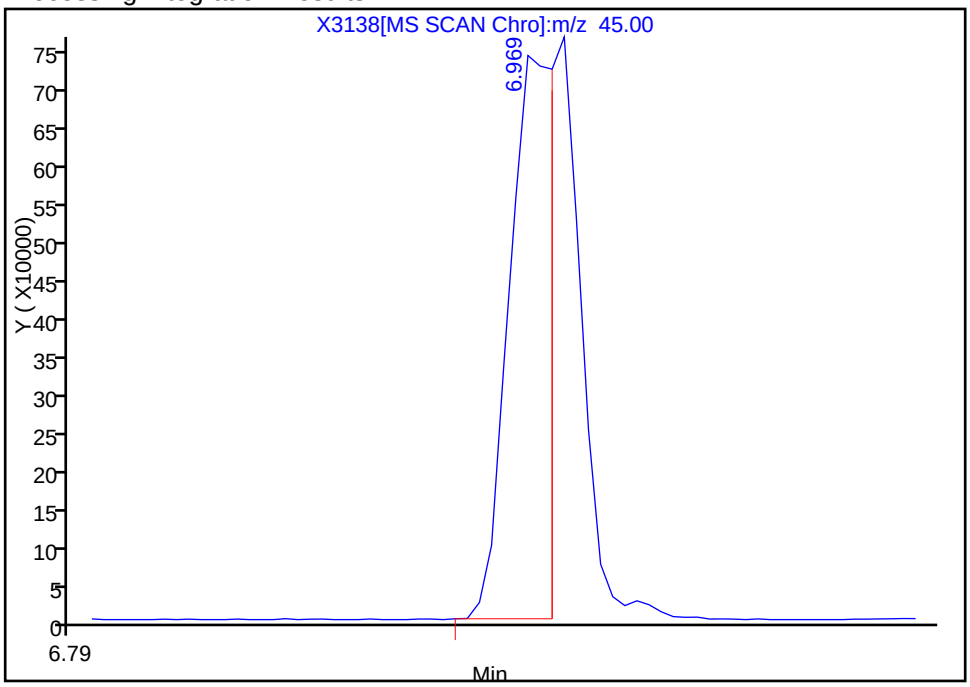
TestAmerica Buffalo

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

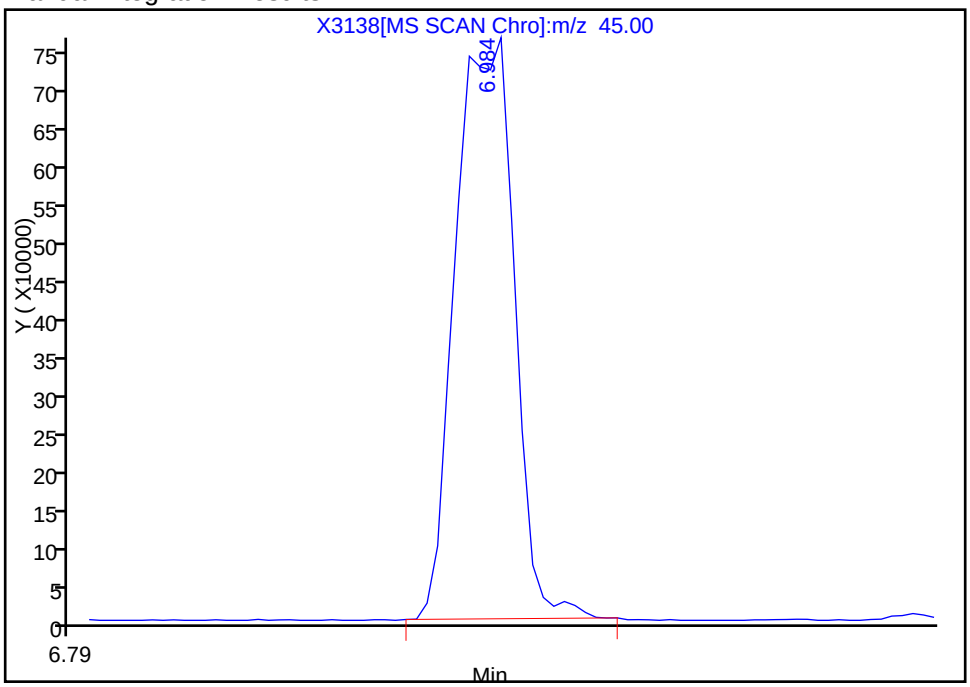
Processing Integration Results

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

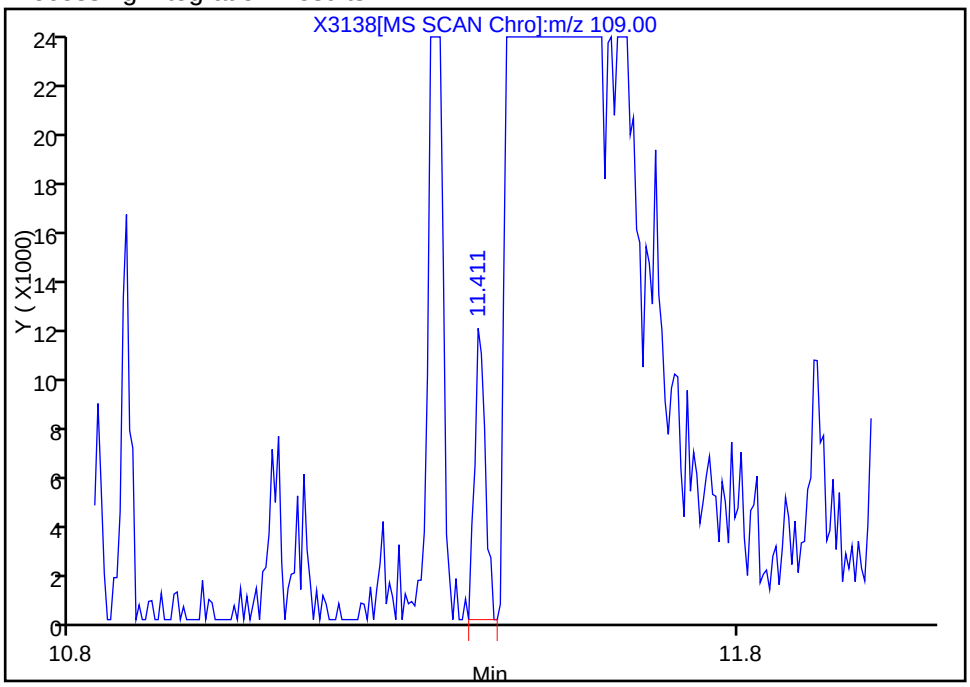
TestAmerica Buffalo

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

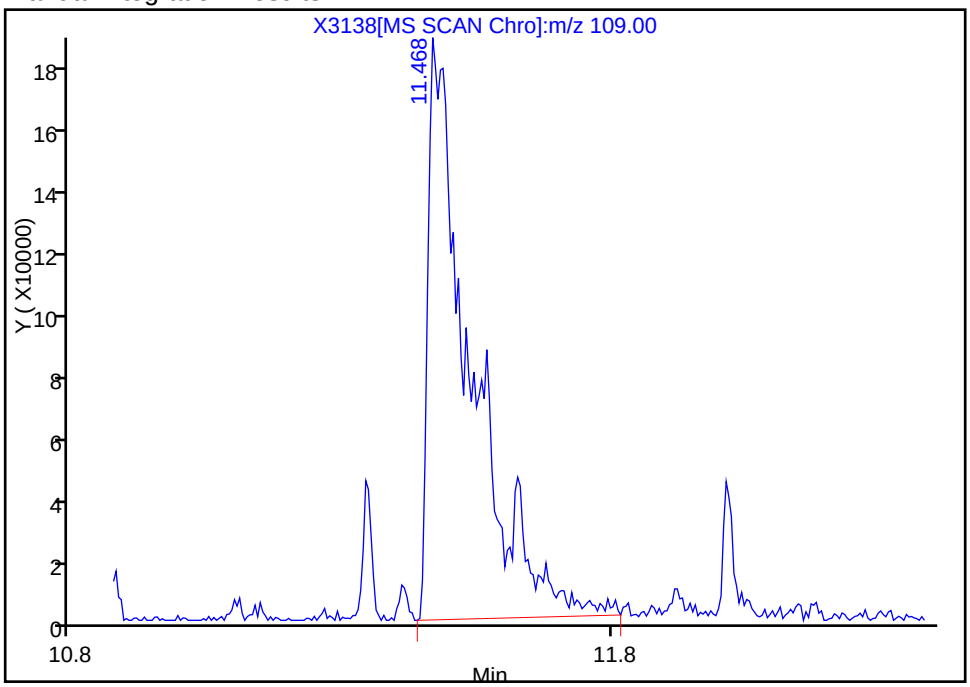
Processing Integration Results

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

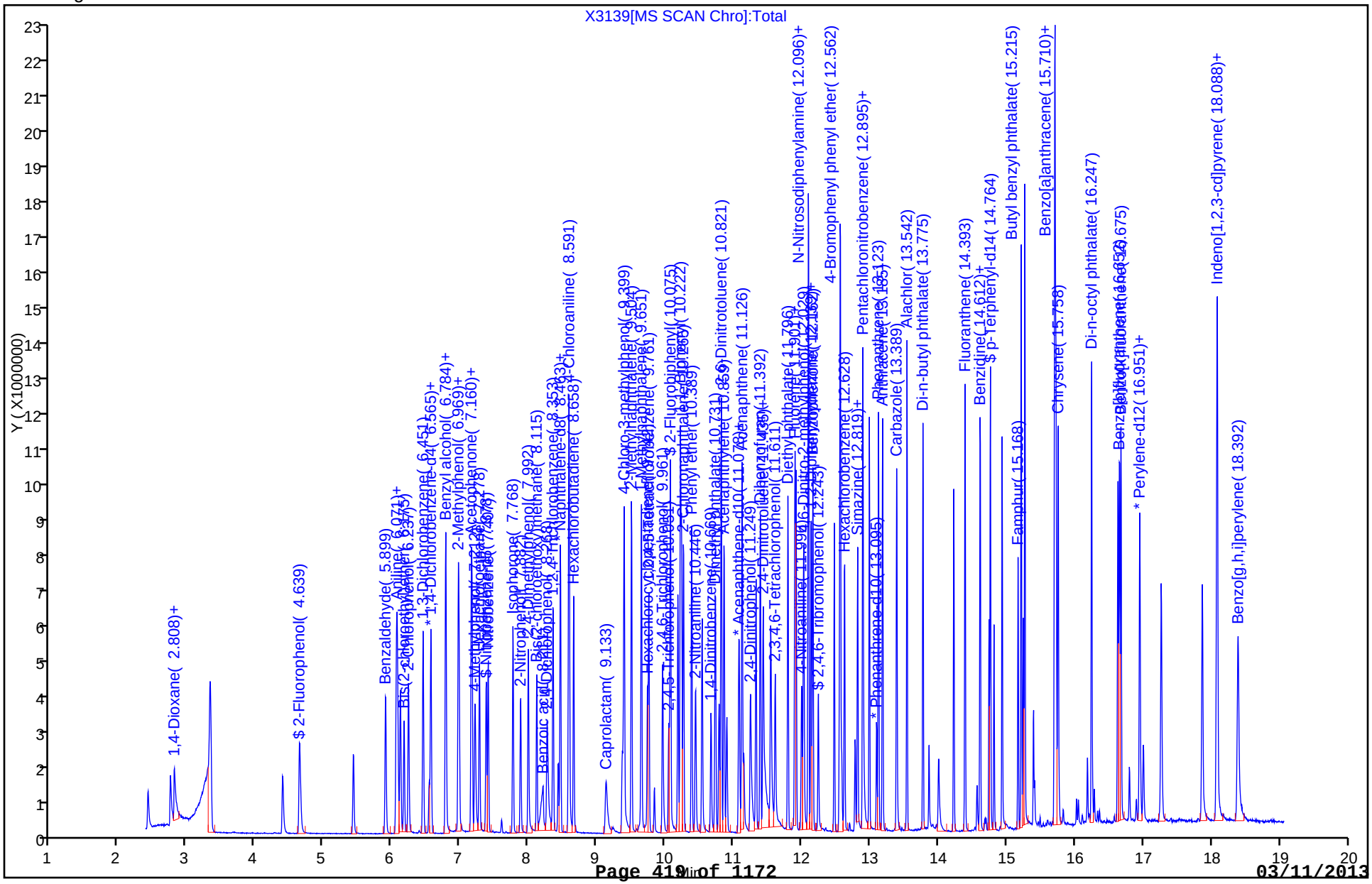
Review Flags
M - Manually Integrated

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

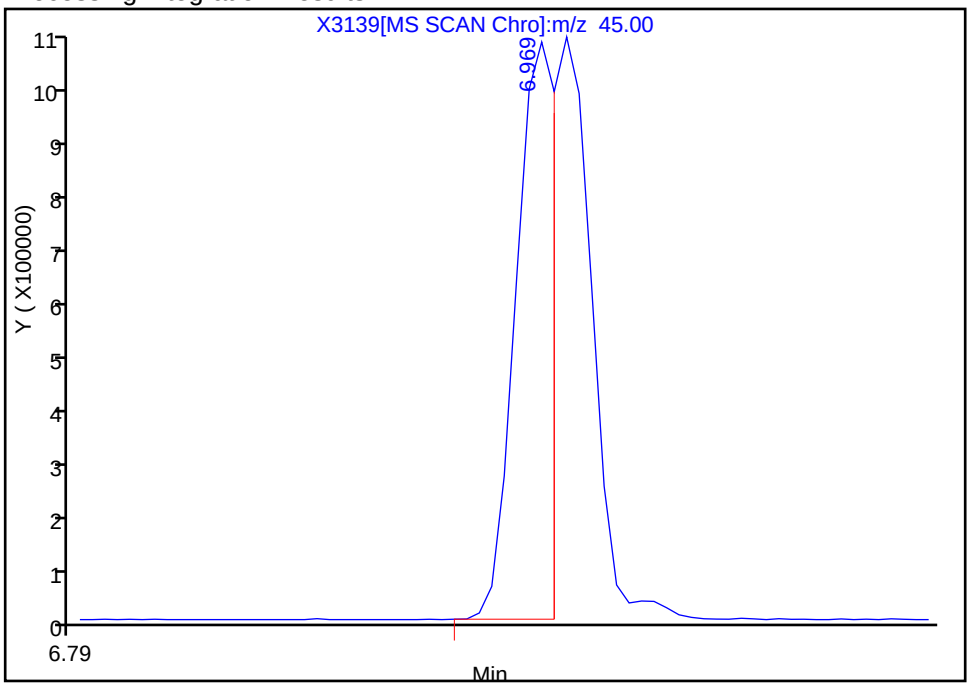
TestAmerica Buffalo

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

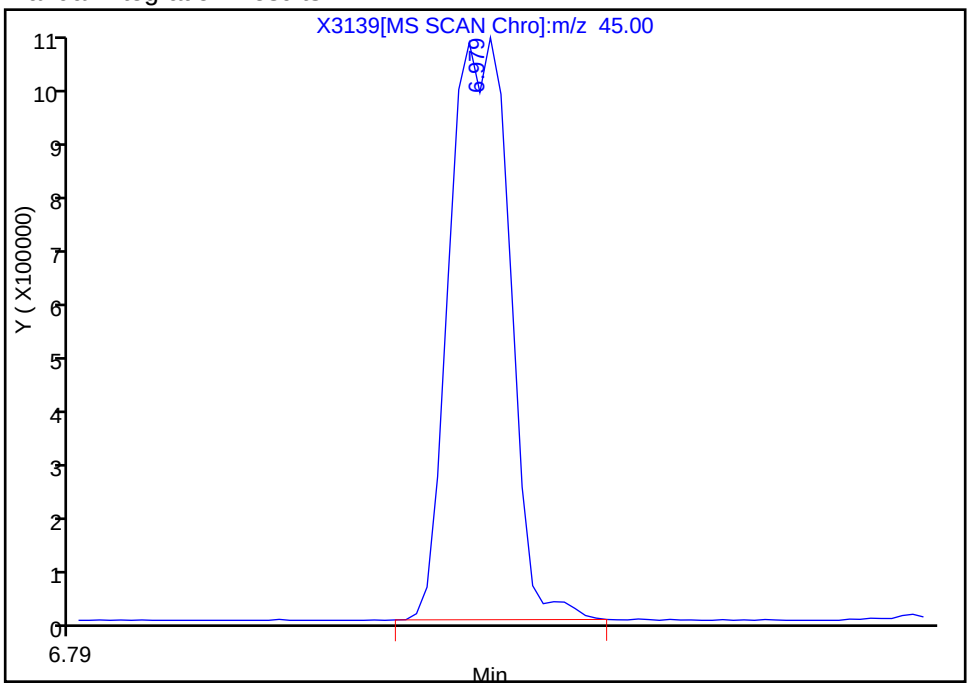
Processing Integration Results

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

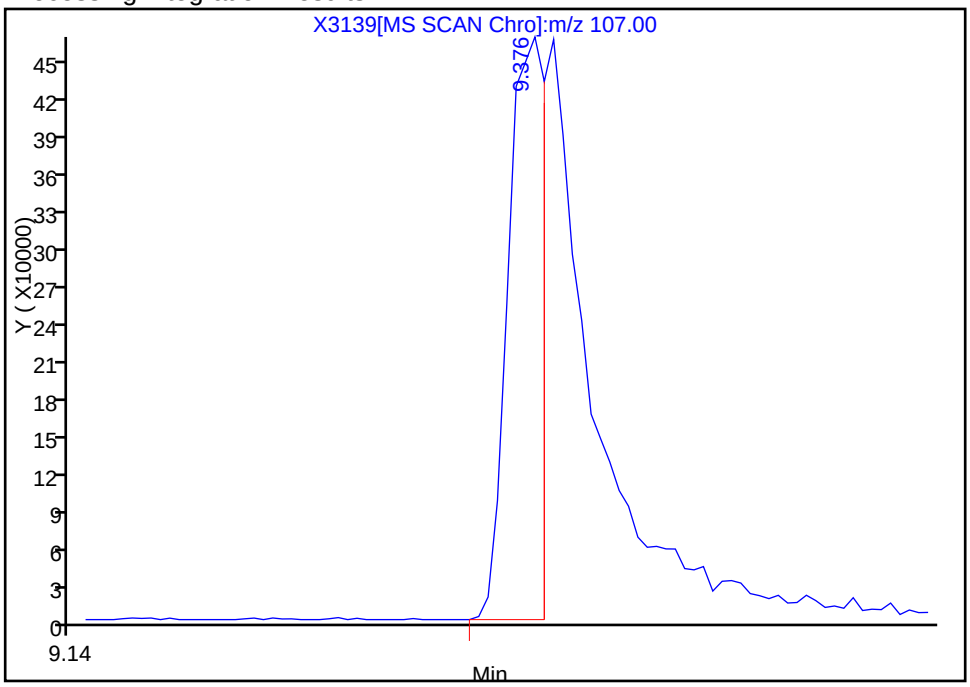
TestAmerica Buffalo

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

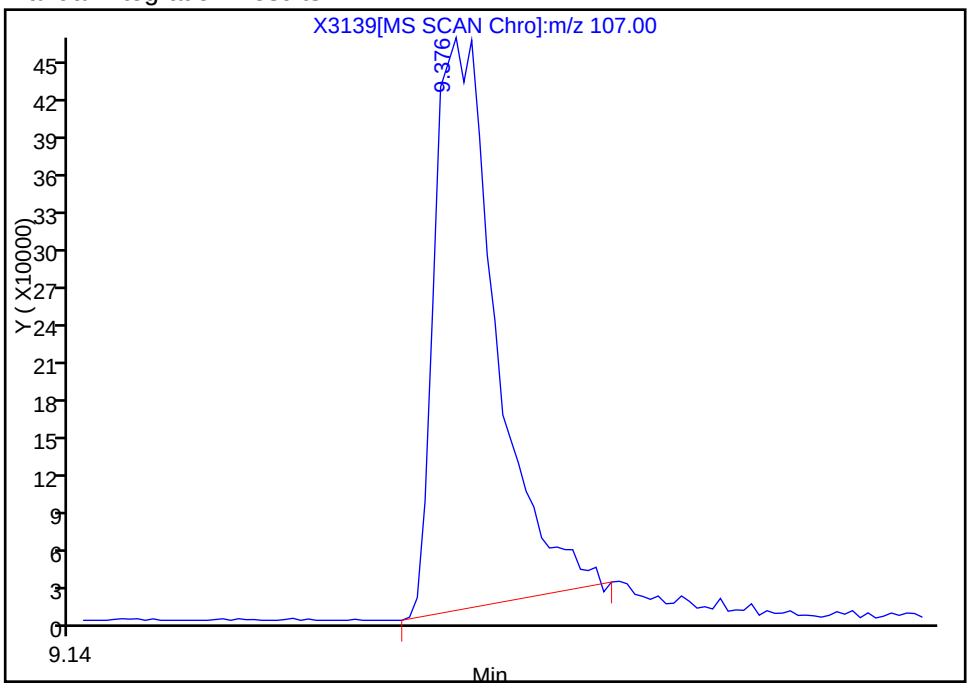
Processing Integration Results

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

Report Date: 18-Dec-2012 16:43:21 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

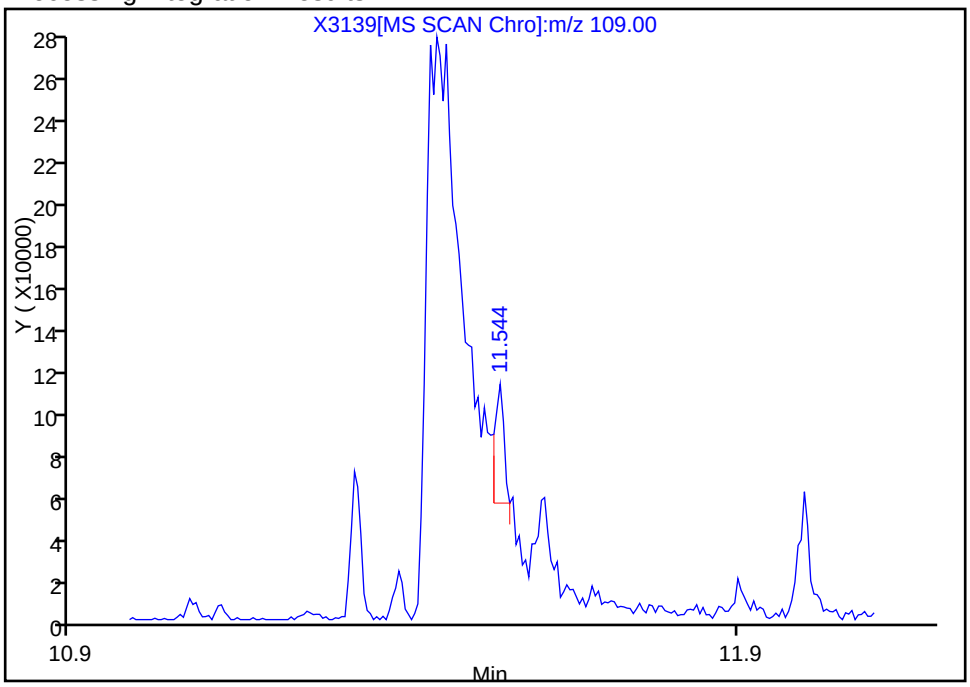
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\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

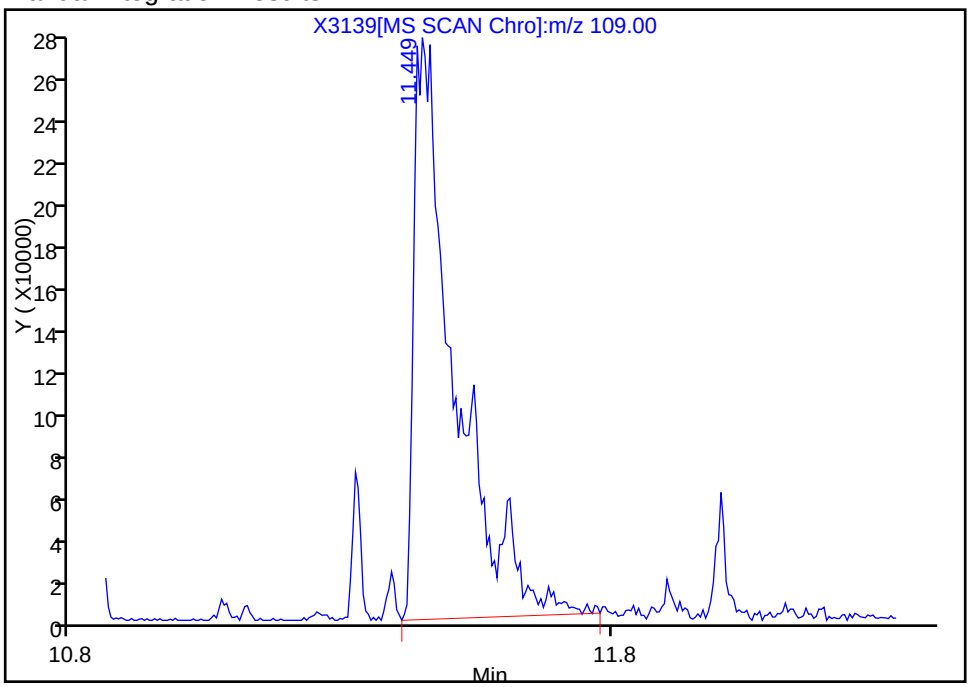
Processing Integration Results

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.: 480-29598-1

SDG No.:

Lab Sample ID: ICV 480-96347/11 Calibration Date: 12/18/2012 15:10

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: X3140.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Lin1		0.4047			2000	-23.3	30.0
N-Nitrosodimethylamine	Ave	0.9135	0.8071			2000	-11.6	30.0
Pyridine	Ave	0.9276	0.9622			2000	3.7	20.0
Benzaldehyde	Ave	0.9800	0.9184	0.0100		2000	-6.3	30.0
Aniline	Ave	1.831	1.674		1610	2000	-8.6	20.0
Phenol	Ave	1.523	1.320	0.7000	1580	2000	-13.3	20.0
Bis(2-chloroethyl)ether	Ave	1.199	1.212	0.6000	1910	2000	1.1	20.0
2-Chlorophenol	Ave	1.295	1.305	0.8000	1840	2000	0.8	20.0
1,3-Dichlorobenzene	Ave	1.606	1.467		1720	2000	-8.7	20.0
1,4-Dichlorobenzene	Ave	1.604	1.690		1820	2000	5.3	20.0
1,2-Dichlorobenzene	Ave	1.496	1.507		1780	2000	0.8	20.0
Benzyl alcohol	QuaF		0.3325		1270	2000	-36.3*	30.0
2,2'-oxybis[1-chloropropane]	Ave	1.949	1.746	0.0100		2000	-10.4	20.0
2-Methylphenol	Ave	1.087	0.9038	0.6000	1550	2000	-16.8	20.0
Acetophenone	Ave	1.854	1.627	0.0100	1640	2000	-12.3	20.0
N-Nitrosodi-n-propylamine	Ave	0.9313	0.8720	0.0500		2000	-6.4	20.0
4-Methylphenol	Ave	1.101	1.107	0.6000	4250	4000	0.5	30.0
Hexachloroethane	Lin1		0.6078	0.3000		2000	-18.4	20.0
Nitrobenzene	Ave	0.3891	0.3767	0.1000	1760	2000	-3.2	20.0
Isophorone	Ave	0.6400	0.6591	0.3000	2060	2000	3.0	20.0
2-Nitrophenol	Ave	0.1771	0.1649	0.0500	1910	2000	-6.9	20.0
2,4-Dimethylphenol	Ave	0.3340	0.2304	0.1000	1330	2000	-31.0*	20.0
Bis(2-chloroethoxy)methane	Ave	0.3791	0.3611	0.2000	1860	2000	-4.7	20.0
2,4-Dichlorophenol	Ave	0.2718	0.2508	0.1000	1740	2000	-7.7	20.0
1,2,4-Trichlorobenzene	Ave	0.3341	0.3170		1920	2000	-5.1	20.0
Benzoic acid	QuaF		0.1598		1390	2000	-30.5*	30.0
Naphthalene	Ave	1.108	1.131	0.6000	1960	2000	2.1	20.0
4-Chloroaniline	Ave	0.4008	0.4278	0.0100	1950	1840	6.7	20.0
Hexachlorobutadiene	Ave	0.1826	0.1746	0.0100	1760	2000	-4.4	20.0
Caprolactam	Ave	0.0989	0.0932	0.0100		2000	-5.8	30.0
4-Chloro-3-methylphenol	Ave	0.3003	0.2880	0.2000	1660	2000	-4.1	20.0
2-Methylnaphthalene	Ave	0.7764	0.7254	0.4000	1830	2000	-6.6	20.0
1-Methylnaphthalene	Ave	0.7151	0.6983			2000	-2.4	20.0
Hexachlorocyclopentadiene	QuaF		0.1131	0.0500	2190	2000	9.7	20.0
2,4,6-Trichlorophenol	Ave	0.2887	0.2977	0.2000	2040	2000	3.1	20.0
2,4,5-Trichlorophenol	Ave	0.2793	0.3308	0.2000	2250	2000	18.4	20.0
1,1'-Biphenyl	Ave	1.446	1.475	0.0100		2000	2.1	30.0
2-Chloronaphthalene	Lin1		1.051	0.8000	1620	2000	-19.1	20.0
2-Nitroaniline	Ave	0.3311	0.3581	0.0100	2490	2000	8.1	20.0
Dimethyl phthalate	Ave	1.294	1.329	0.0100	1940	2000	2.7	20.0
2,6-Dinitrotoluene	Ave	0.5865	0.2796	0.1000	949	2000	-52.3*	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-29598-1

SDG No.:

Lab Sample ID: ICV 480-96347/11 Calibration Date: 12/18/2012 15:10

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: X3140.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acenaphthylene	Ave	1.749	1.848	0.9000	1990	2000	5.7	20.0
Acenaphthene	Ave	1.218	1.148	0.9000	1890	2000	-5.7	20.0
3-Nitroaniline	Ave	0.2913	0.2495	0.0100	1640	1980	-14.4	20.0
2,4-Dinitrophenol	QuaF		0.0413	0.0100	1150	2000	-42.6*	20.0
Dibenzofuran	Ave	1.486	1.605	0.8000	1970	2000	8.0	20.0
2,4-Dinitrotoluene	Ave	0.3744	0.3550	0.2000	2150	2000	-5.2	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.2247	0.2525	0.0100		2000	12.4	30.0
4-Nitrophenol	Ave	0.2503	0.1605	0.0500	1360	2000	-35.9*	20.0
Diethyl phthalate	Ave	1.417	1.413	0.0100	1870	2000	-0.3	20.0
Fluorene	Ave	1.359	1.362	0.8000	1900	2000	0.2	20.0
4-Chlorophenyl phenyl ether	Ave	0.6017	0.6275	0.4000	2170	2000	4.3	20.0
4-Nitroaniline	Lin1		0.2810	0.0100	1970	2000	-1.5	20.0
4,6-Dinitro-2-methylphenol	Lin1		0.1287	0.0100	2020	2000	0.9	20.0
N-Nitrosodiphenylamine	Ave	1.163	0.5793	0.0100	871	2000	-50.2*	20.0
1,2-Diphenylhydrazine	Ave	0.7515	0.7252		1850	2000	-3.5	30.0
4-Bromophenyl phenyl ether	Ave	0.1874	0.1618	0.1000	1650	2000	-13.7	20.0
Hexachlorobenzene	Lin1		0.1736	0.1000	1640	2000	-17.9	20.0
Atrazine	Ave	0.3761	0.3179	0.0100	1660	2000	-15.5	20.0
Pentachlorophenol	Lin1		0.0435*	0.0500	1320	2000	-34.2*	20.0
Phenanthrene	Ave	1.115	1.090	0.6000	1750	2000	-2.2	20.0
Anthracene	Ave	1.135	1.052	0.6000	1720	2000	-7.4	20.0
Carbazole	Ave	1.052	0.9783	0.0100		2000	-7.0	20.0
Di-n-butyl phthalate	Ave	1.220	1.216	0.0100	1720	2000	-0.3	20.0
Fluoranthene	Ave	1.104	1.069	0.6000	1760	2000	-3.1	20.0
Benzidine	Ave	0.5523	0.4752			2000	-14.0	20.0
Pyrene	Ave	1.340	1.289	0.6000	1890	2000	-3.8	20.0
Butyl benzyl phthalate	Ave	0.7409	0.6208	0.0100	1710	2000	-16.2	20.0
Bis(2-ethylhexyl) phthalate	Ave	1.020	0.9377	0.0100		2000	-8.1	20.0
3,3'-Dichlorobenzidine	Ave	0.4492	0.3890	0.0100	1670	1940	-13.4	20.0
Benzo[a]anthracene	Ave	1.077	0.9725	0.6000	1950	2000	-9.7	20.0
Chrysene	Ave	1.222	1.309	0.6000	2060	2000	7.1	20.0
Di-n-octyl phthalate	Ave	1.608	1.446	0.0100	1810	2000	-10.1	20.0
Benzo[b]fluoranthene	Ave	1.161	0.9264	0.7000	1630	2000	-20.2*	20.0
Benzo[k]fluoranthene	Ave	1.196	1.160	0.7000	1760	2000	-3.1	20.0
Benzo[a]pyrene	Ave	1.123	1.017	0.7000	1740	2000	-9.4	20.0
Dibenz(a,h)anthracene	Ave	1.017	0.9196	0.4000	1890	2000	-9.6	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.198	1.111	0.5000	1990	2000	-7.3	20.0
Benzo[g,h,i]perylene	Ave	1.000	0.9806	0.4000	2200	2000	-1.9	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3140.D
Lims ID: ICV Client ID:
Inject. Date: 18-Dec-2012 15:10:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: 480-0017654-011
Misc. Info.:
Operator: ANM Instrument ID: HP5973X
Injection Vol: 1.0 ul ALS Bottle#: 12
Lims Batch ID: 96347 Lims Sample ID: 11
Sublist:
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 16:43:25

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.537	6.580	-0.043	84	282864	5.00	
* 2 Naphthalene-d8	136	8.429	8.472	-0.043	97	1017248	5.00	
* 3 Acenaphthene-d10	164	11.083	11.107	-0.024	88	632460	5.00	
* 4 Phenanthrene-d10	188	13.109	13.123	-0.014	96	1146776	5.00	
* 5 Chrysene-d12	240	15.748	15.763	-0.015	96	1030518	5.00	
* 6 Perylene-d12	264	17.018	17.028	-0.010	98	967545	5.00	
18 1,4-Dioxane	88	2.418	2.461	-0.043	67	45786	1.53	
19 N-Nitrosodimethylamine	42	2.756	2.804	-0.048	62	91319	1.71	M
20 Pyridine	52	2.827	2.865	-0.038	81	108864	1.88	M
21 Benzaldehyde	77	5.899	5.942	-0.043	91	103911	1.59	
23 Aniline	93	6.066	6.109	-0.043	96	189385	1.61	
22 Phenol	94	6.085	6.123	-0.038	44	149335	1.58	
24 Bis(2-chloroethyl)ether	93	6.170	6.213	-0.043	95	137125	1.91	
25 2-Chlorophenol	128	6.237	6.280	-0.043	93	147660	1.84	
26 1,3-Dichlorobenzene	146	6.446	6.489	-0.043	95	165961	1.72	
27 1,4-Dichlorobenzene	146	6.565	6.608	-0.043	66	191180	1.82	
29 1,2-Dichlorobenzene	146	6.784	6.822	-0.038	78	170518	1.78	
28 Benzyl alcohol	108	6.784	6.822	-0.038	63	37623	1.27	M
31 2-Methylphenol	108	6.974	7.008	-0.034	65	102260	1.55	
32 2,2'-oxybis[1-chloropropane]	45	6.969	7.012	-0.043	75	197519	1.66	
33 Acetophenone	105	7.160	7.198	-0.038	85	184089	1.64	
34 N-Nitrosodi-n-propylamine	70	7.164	7.203	-0.039	92	98657	1.72	
36 4-Methylphenol	108	7.217	7.260	-0.043	79	250433	4.25	M
37 Hexachloroethane	117	7.274	7.317	-0.043	92	68774	1.63	
38 Nitrobenzene	77	7.407	7.445	-0.038	77	153275	1.76	
40 Isophorone	82	7.764	7.806	-0.042	74	268186	2.06	
41 2-Nitrophenol	139	7.882	7.921	-0.039	85	67089	1.91	
43 2,4-Dimethylphenol	107	8.020	8.040	-0.020	77	93752	1.33	
45 Bis(2-chloroethoxy)methane	93	8.120	8.154	-0.034	96	146943	1.86	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
44 Benzoic acid	105	8.358	8.225	0.133	1	65023	1.39	M
47 2,4-Dichlorophenol	162	8.315	8.315	0.0	0	102042	1.74	M
48 1,2,4-Trichlorobenzene	180	8.353	8.396	-0.043	88	128970	1.92	
49 Naphthalene	128	8.463	8.506	-0.043	89	460359	1.96	
51 4-Chloroaniline	127	8.610	8.634	-0.024	88	160136	1.95	M
52 Hexachlorobutadiene	225	8.653	8.701	-0.048	82	71038	1.76	
54 Caprolactam	113	9.162	9.167	-0.005	53	37931	1.59	M
55 4-Chloro-3-methylphenol	107	9.428	9.428	0.0	75	117178	1.66	M
56 2-Methylnaphthalene	142	9.514	9.547	-0.033	75	295180	1.83	
57 1-Methylnaphthalene	142	9.661	9.694	-0.033	95	284126	1.90	
58 Hexachlorocyclopentadiene	237	9.742	9.780	-0.038	52	28609	2.19	
60 2,4,6-Trichlorophenol	196	9.994	10.013	-0.019	71	75303	2.04	M
61 2,4,5-Trichlorophenol	196	10.118	10.108	0.010	61	83695	2.25	M
62 1,1'-Biphenyl	154	10.232	10.260	-0.028	96	373266	1.94	M
63 2-Chloronaphthalene	162	10.256	10.303	-0.047	85	265973	1.62	M
65 2-Nitroaniline	65	10.479	10.484	-0.005	77	90588	2.49	M
66 1,4-Dinitrobenzene	75	10.726	10.717	0.009	57	55306	0	M
67 Dimethyl phthalate	163	10.745	10.764	-0.019	88	336199	1.94	
68 2,6-Dinitrotoluene	165	10.845	10.850	-0.005	86	70734	0.9494	
69 Acenaphthylene	152	10.869	10.893	-0.024	75	467613	1.99	
70 3-Nitroaniline	138	11.145	11.126	0.019	94	62483	1.64	M
71 Acenaphthene	153	11.131	11.154	-0.023	89	290495	1.89	
72 2,4-Dinitrophenol	184	11.406	11.302	0.104	1	10459	1.15	M
73 Dibenzofuran	168	11.411	11.425	-0.014	97	405988	1.97	M
74 2,4-Dinitrotoluene	165	11.482	11.468	0.014	86	89819	2.15	M
75 4-Nitrophenol	109	11.673	11.521	0.152	1	40602	1.36	M
76 2,3,4,6-Tetrachlorophenol	232	11.663	11.649	0.014	58	63884	1.83	M
78 Diethyl phthalate	149	11.806	11.820	-0.014	92	357389	1.87	
79 Fluorene	166	11.910	11.930	-0.020	90	344481	1.90	
80 4-Chlorophenyl phenyl ether	204	11.929	11.944	-0.015	87	158752	2.17	
81 4-Nitroaniline	138	12.077	12.039	0.038	75	71078	1.97	M
82 4,6-Dinitro-2-methylphenol	198	12.086	12.063	0.023	47	32563	2.02	M
83 N-Nitrosodiphenylamine	169	12.110	12.120	-0.010	94	265709	0.8712	M
16 1,2-Diphenylhydrazine	77	12.148	12.163	-0.015	96	332656	1.85	
89 4-Bromophenyl phenyl ether	248	12.581	12.591	-0.010	86	74227	1.65	
91 Hexachlorobenzene	284	12.638	12.652	-0.014	71	79625	1.64	M
93 Atrazine	200	12.828	12.838	-0.010	80	80431	1.66	M
94 Pentachlorophenol	266	12.952	12.928	0.024	0	19958	1.32	M
97 Phenanthrene	178	13.137	13.152	-0.015	90	500138	1.75	
98 Anthracene	178	13.204	13.214	-0.010	94	482370	1.72	
99 Carbazole	167	13.427	13.418	0.009	96	448758	1.77	M
102 Di-n-butyl phthalate	149	13.794	13.803	-0.009	96	557918	1.72	
104 Fluoranthene	202	14.421	14.426	-0.005	96	490291	1.76	
105 Benzidine	184	14.597	14.593	0.004	94	195886	1.52	M
106 Pyrene	202	14.645	14.650	-0.005	99	531214	1.89	
108 Butyl benzyl phthalate	149	15.230	15.244	-0.014	92	255892	1.71	
109 3,3'-Dichlorobenzidine	252	15.729	15.734	-0.005	82	155549	1.67	
110 Bis(2-ethylhexyl) phthalate	149	15.720	15.734	-0.014	94	386529	1.88	
111 Benzo[a]anthracene	228	15.739	15.748	-0.009	92	400882	1.95	
112 Chrysene	228	15.772	15.786	-0.014	73	539437	2.06	
113 Di-n-octyl phthalate	149	16.252	16.271	-0.019	97	596134	1.81	
114 Benzo[b]fluoranthene	252	16.671	16.676	-0.005	92	358530	1.63	

Report Date: 18-Dec-2012 16:43:26 Chrom Revision: 2.0 22-Oct-2012 16:30:48
Data File: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3140.D

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
115 Benzo[k]fluoranthene	252	16.695	16.699	-0.004	93	448862	1.76	
116 Benzo[a]pyrene	252	16.975	16.975	0.0	0	393506	1.74	M
117 Indeno[1,2,3-cd]pyrene	276	18.126	18.088	0.038	96	429794	1.99	M
118 Dibenz(a,h)anthracene	278	18.126	18.093	0.033	0	355917	1.89	M
119 Benzo[g,h,i]perylene	276	18.430	18.402	0.028	91	379508	2.20	M
S 121 3-Methylphenol	1		0.000					

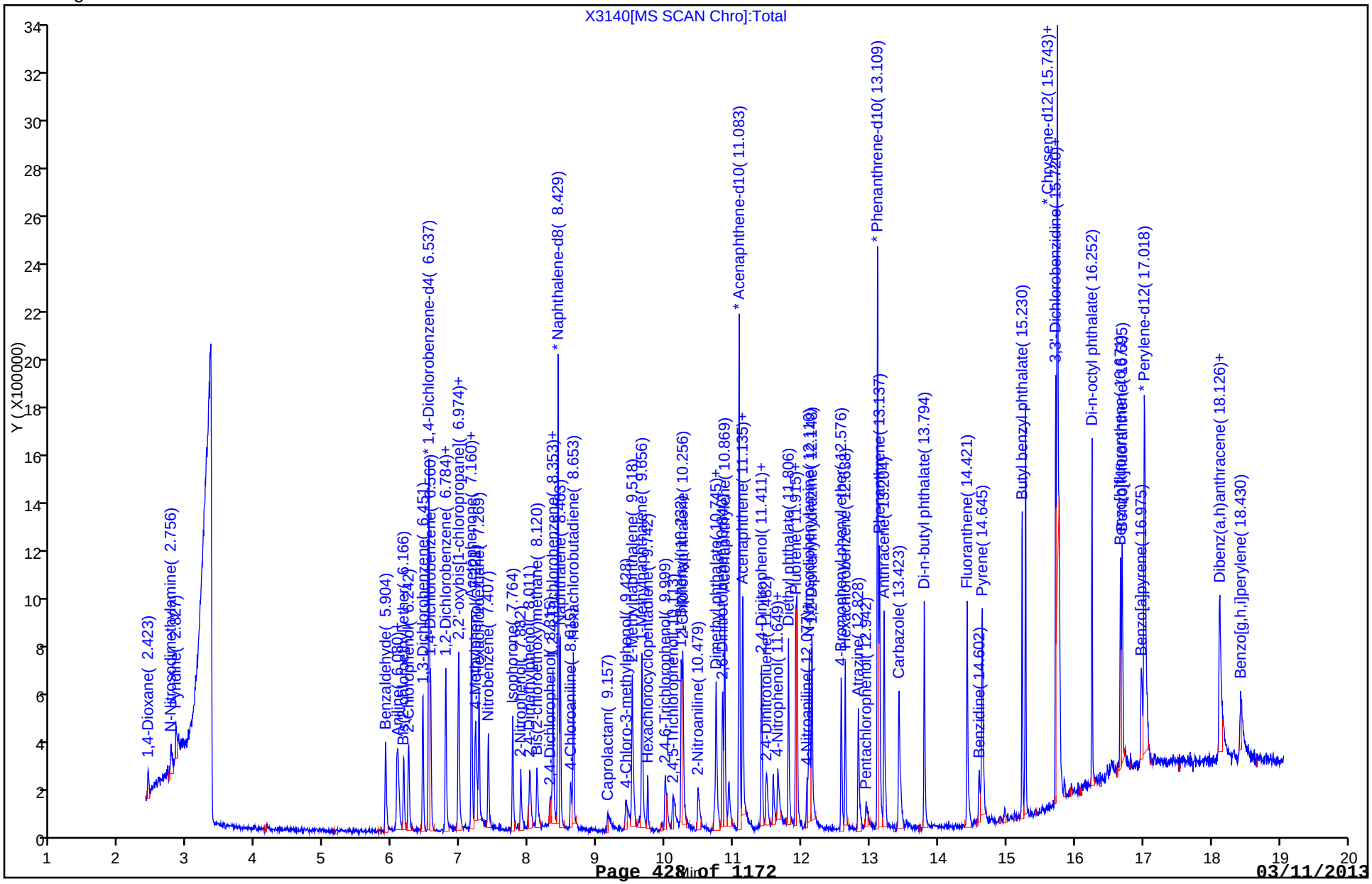
QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 18-Dec-2012 16:43:26 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3140.D		
Injection Date:	18-Dec-2012 15:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	11
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 16:43:26 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

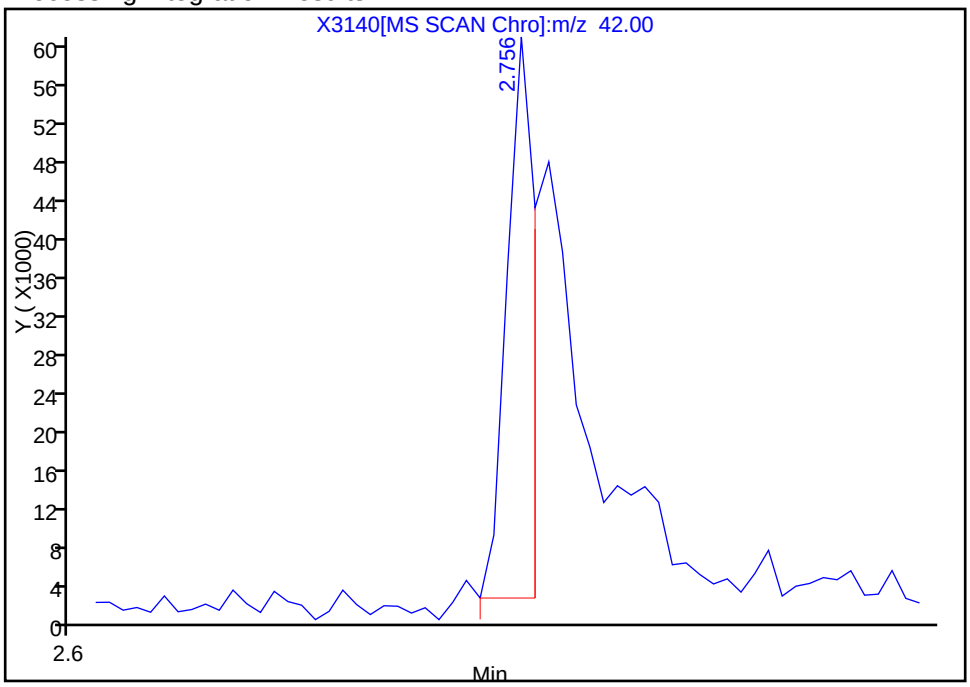
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3140.D		
Injection Date:	18-Dec-2012 15:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	11
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: 2.80

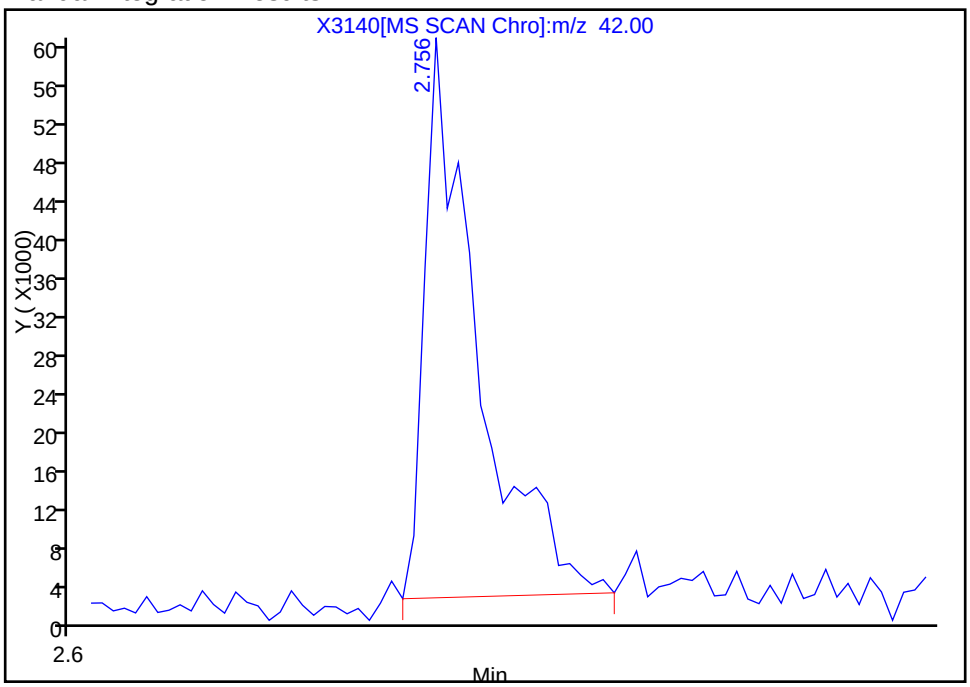
Processing Integration Results

RT: 2.76
Response: 40114
Amount: 0.752503



Manual Integration Results

RT: 2.76
Response: 91319
Amount: 1.713063



Reviewer: mckernar, 18-Dec-2012 16:19:10
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

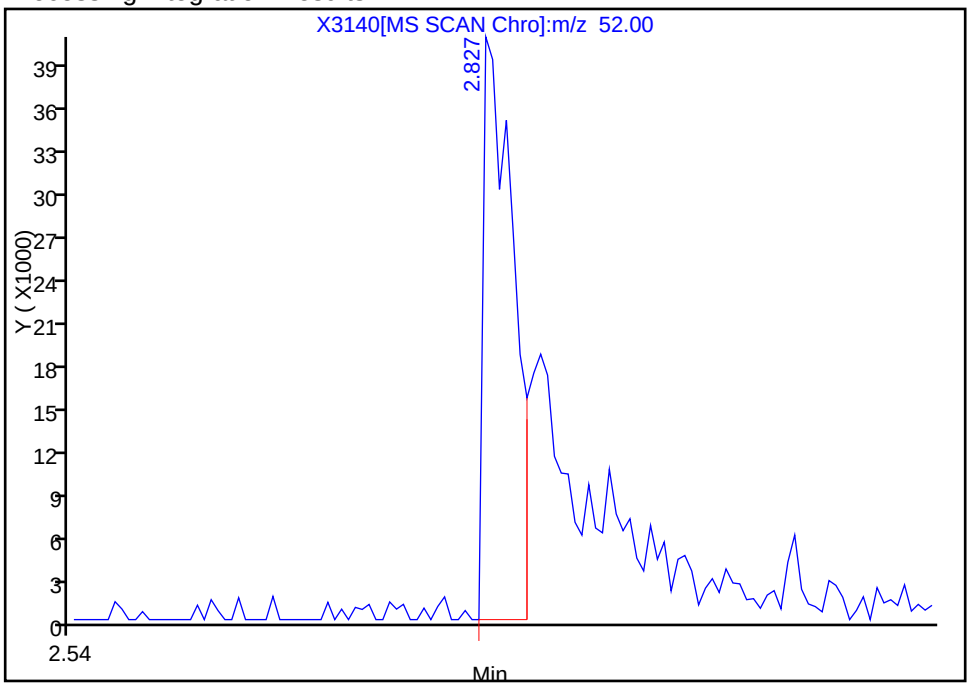
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3140.D		
Injection Date:	18-Dec-2012 15:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	11
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

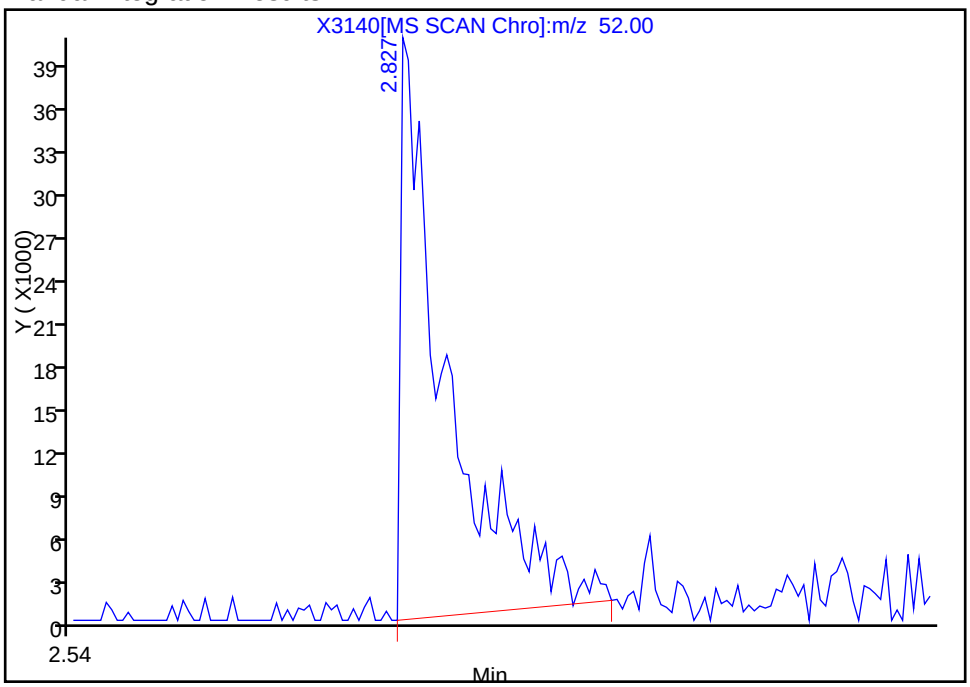
Processing Integration Results

RT: 2.83
Response: 58306
Amount: 1.007817



Manual Integration Results

RT: 2.83
Response: 108864
Amount: 1.881710



Reviewer: mckernar, 18-Dec-2012 16:19:10
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

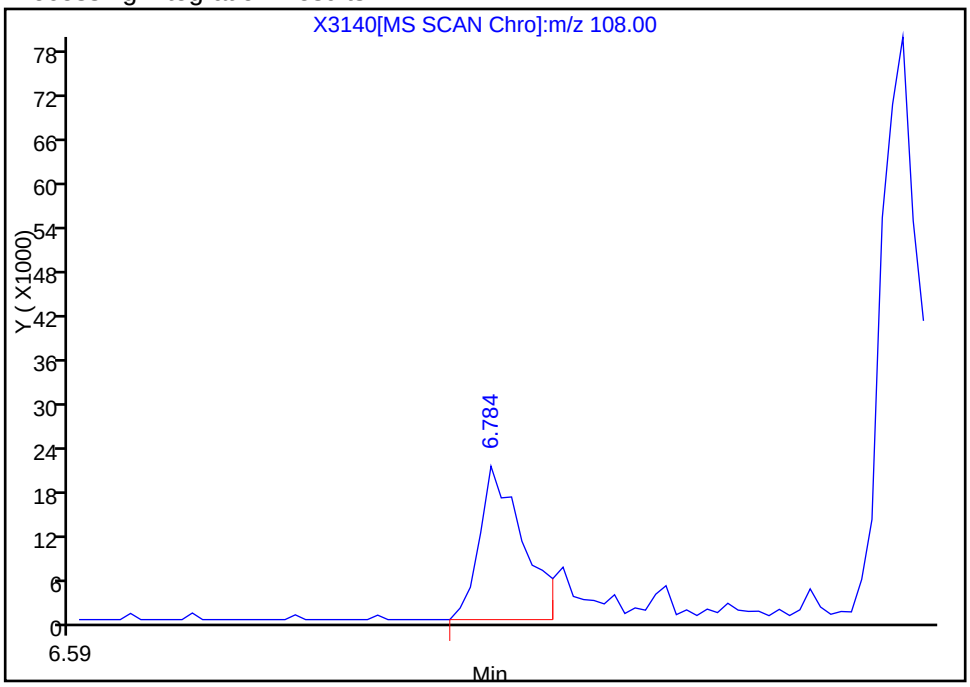
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3140.D		
Injection Date:	18-Dec-2012 15:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	11
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

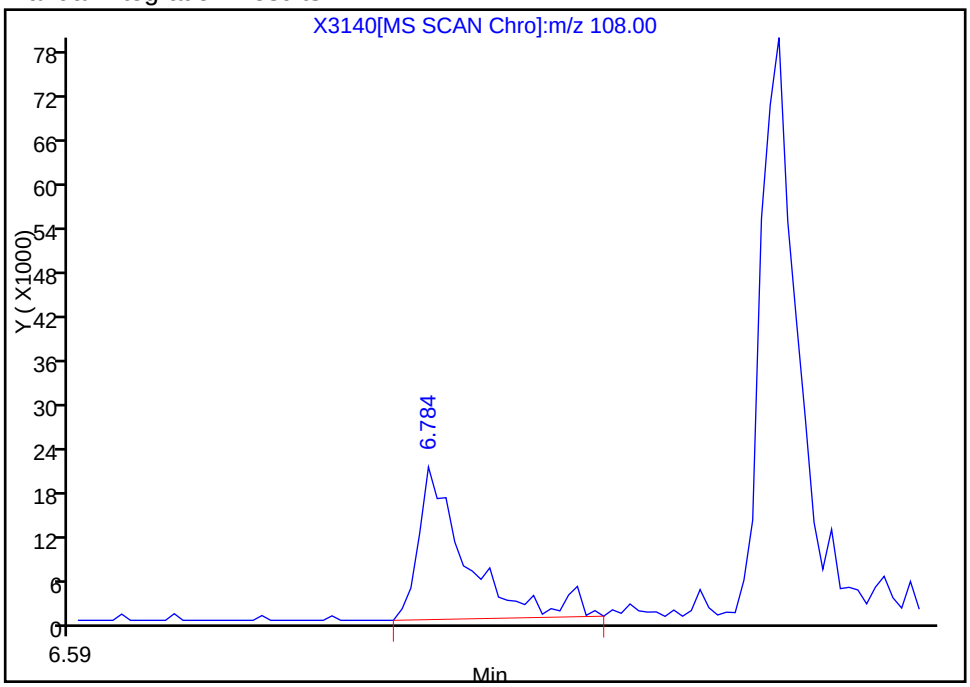
Processing Integration Results

RT: 6.78
Response: 29437
Amount: 0.997256



Manual Integration Results

RT: 6.78
Response: 37623
Amount: 1.274578



Reviewer: mckernar, 18-Dec-2012 16:19:10
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

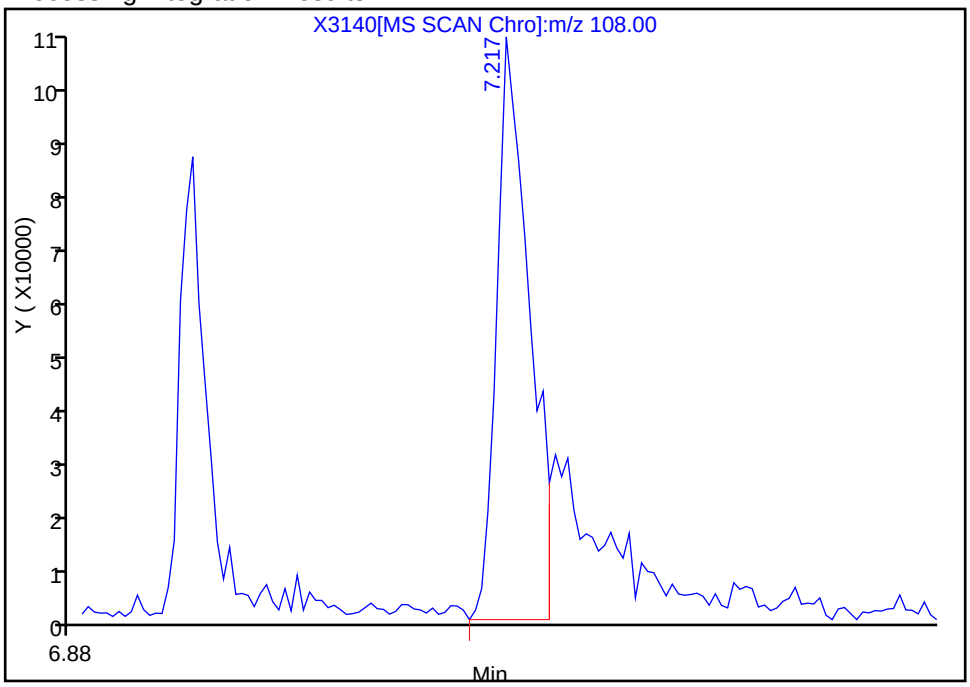
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3140.D		
Injection Date:	18-Dec-2012 15:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	11
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: 7.26

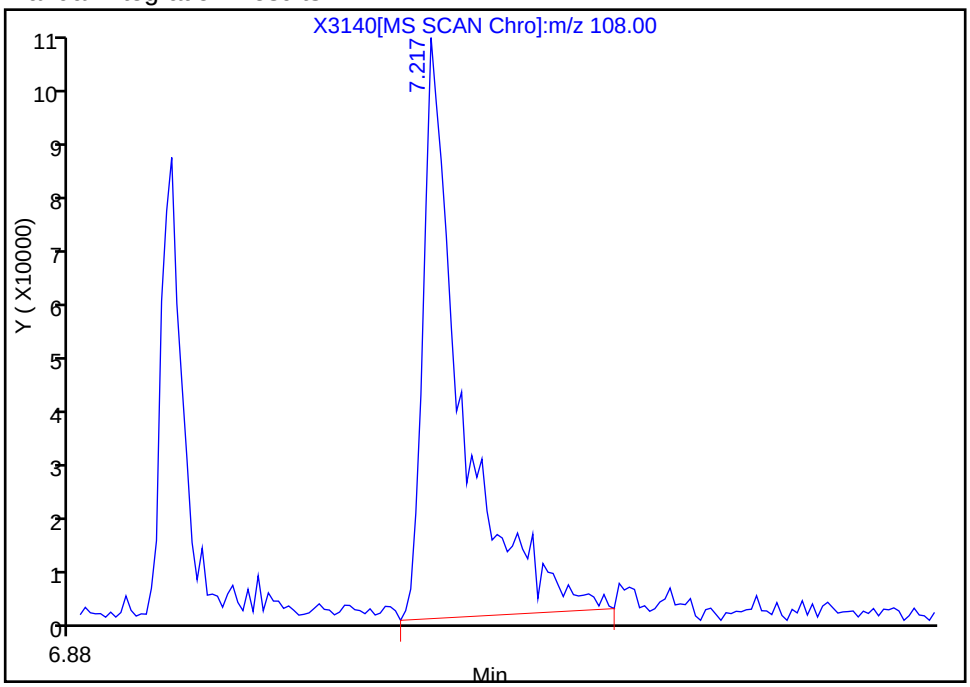
Processing Integration Results

RT: 7.22
Response: 177369
Amount: 3.008442



Manual Integration Results

RT: 7.22
Response: 250433
Amount: 4.247716



Reviewer: mckernar, 18-Dec-2012 16:19:10
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

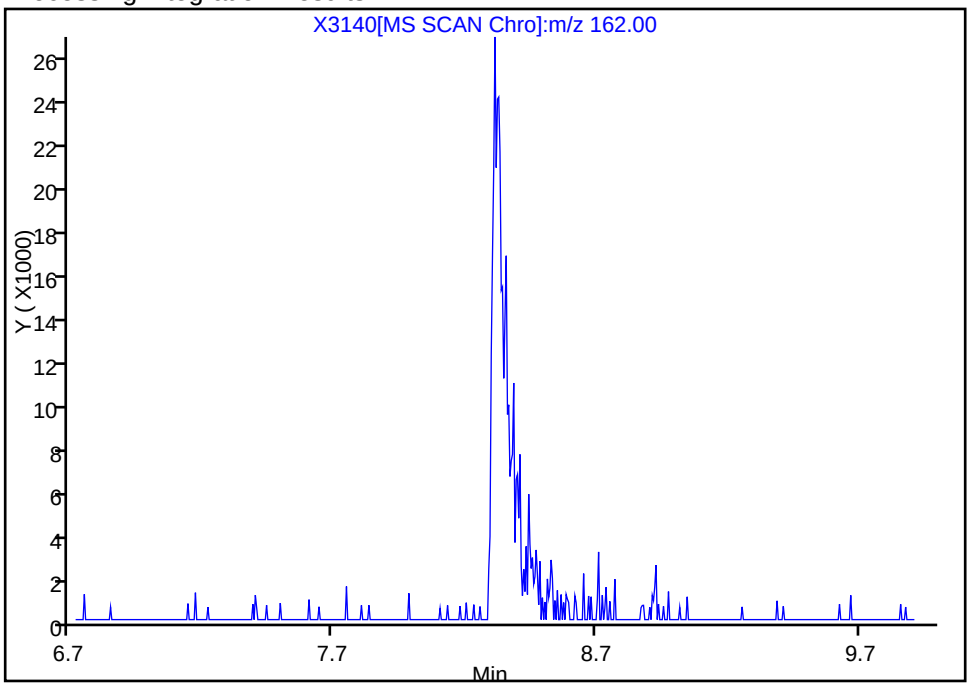
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3140.D		
Injection Date:	18-Dec-2012 15:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	11
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

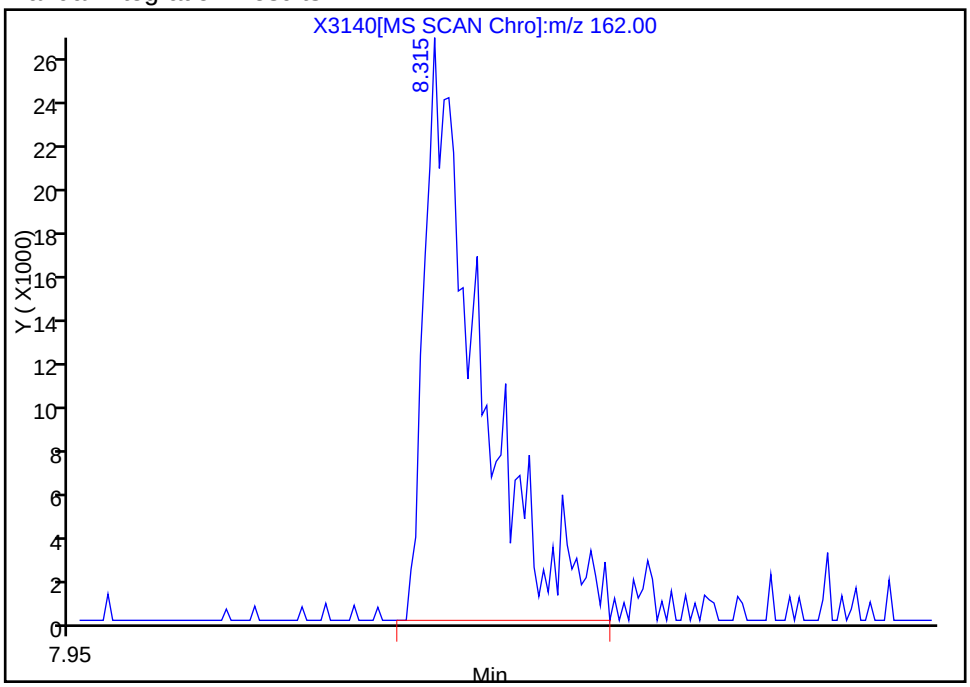
Processing Integration Results

Not Detected
Expected RT: 8.32



Manual Integration Results

RT: 8.32
Response: 102042
Amount: 1.742995



Reviewer: mckernar, 18-Dec-2012 16:19:10
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

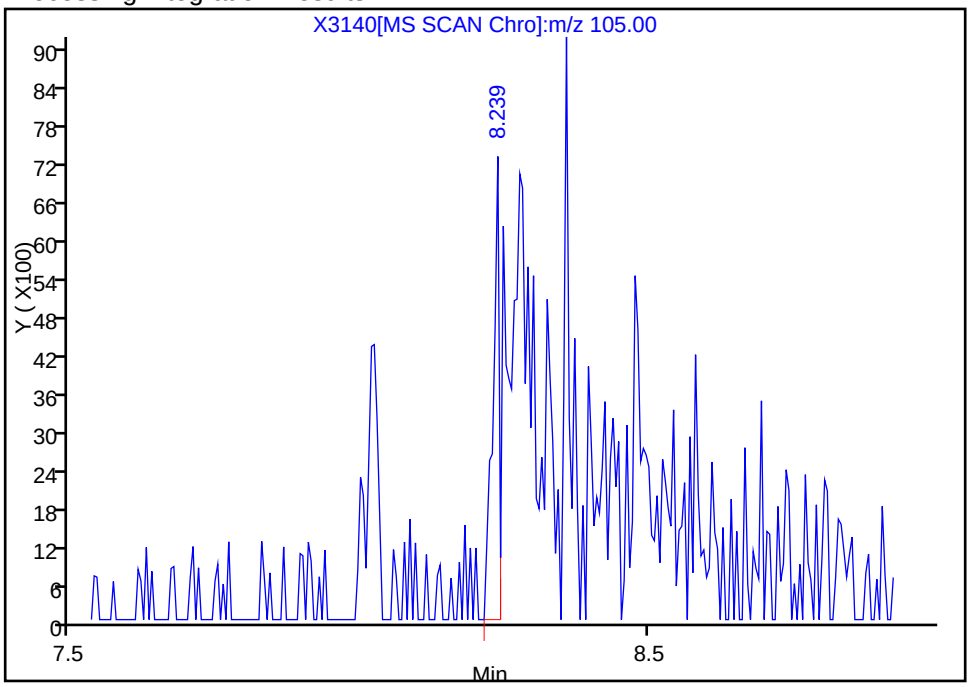
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3140.D		
Injection Date:	18-Dec-2012 15:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	11
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

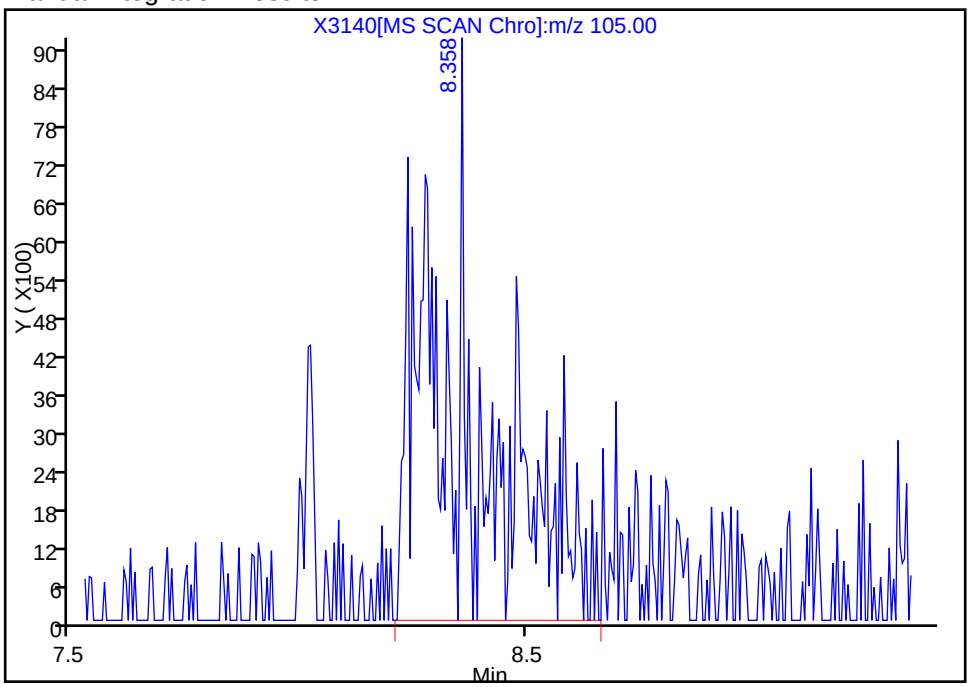
Processing Integration Results

RT: 8.24
Response: 5490
Amount: 0.117429



Manual Integration Results

RT: 8.36
Response: 65023
Amount: 1.390822



Reviewer: mckernar, 18-Dec-2012 16:19:10
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

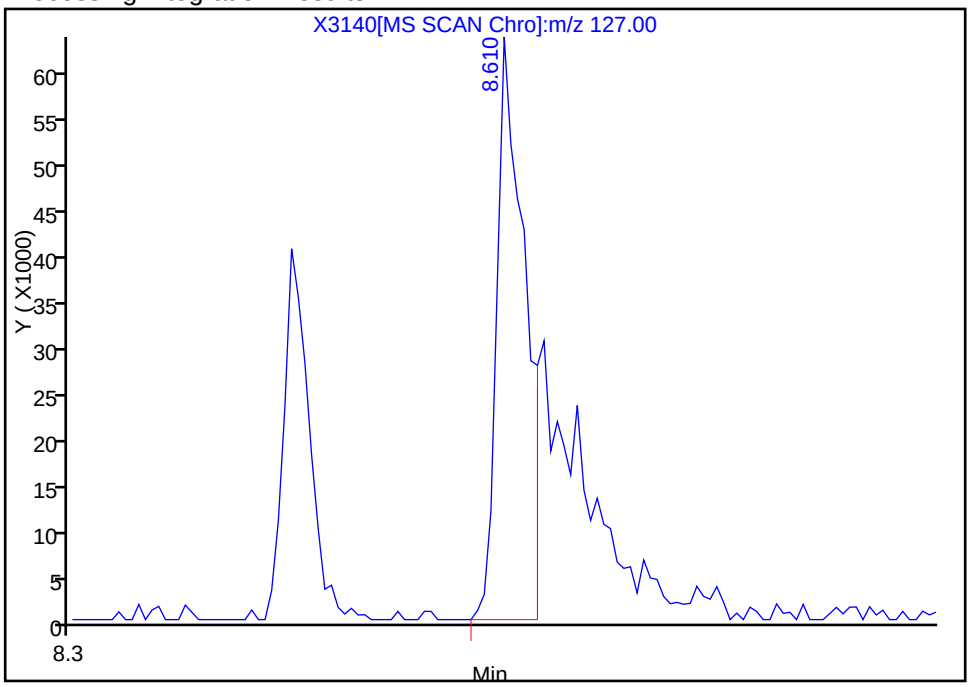
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3140.D		
Injection Date:	18-Dec-2012 15:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	11
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

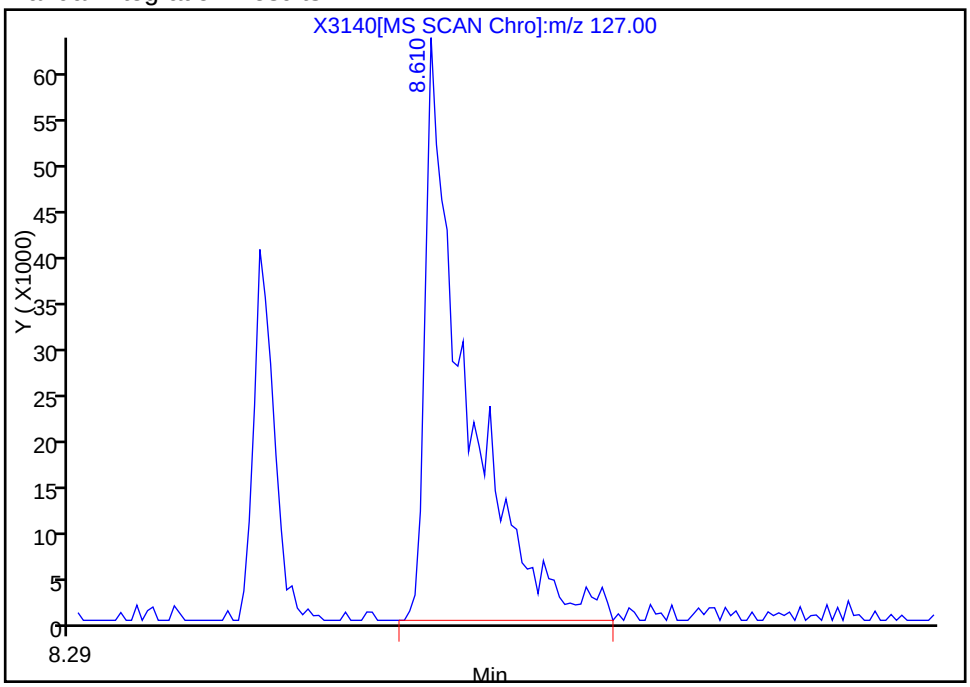
Processing Integration Results

RT: 8.61
Response: 89601
Amount: 1.091811



Manual Integration Results

RT: 8.61
Response: 160136
Amount: 1.951298



Reviewer: mckernar, 18-Dec-2012 16:19:10
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:26 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

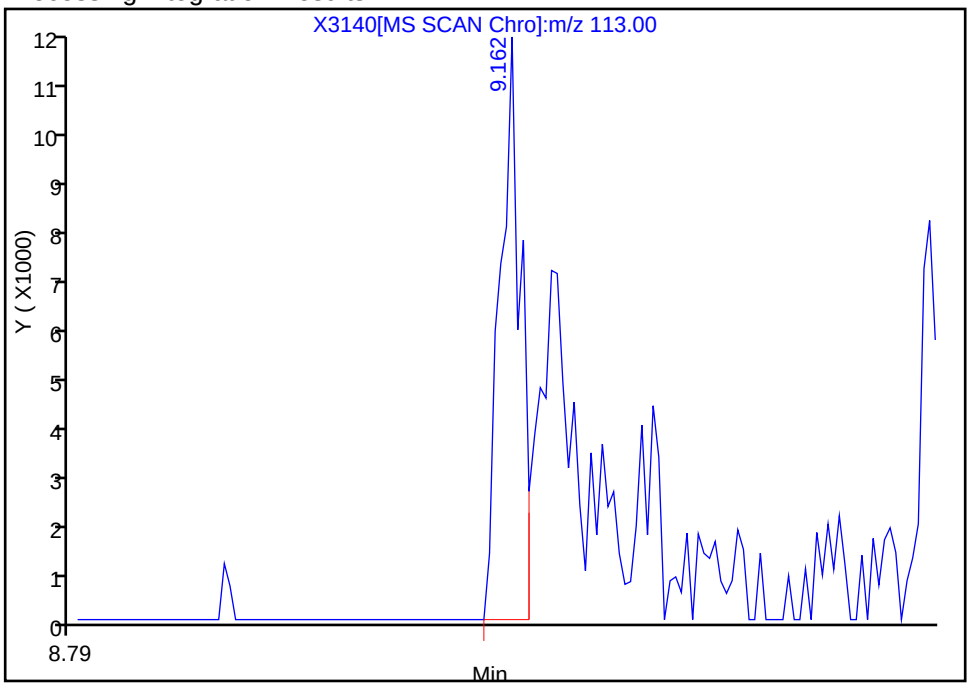
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3140.D		
Injection Date:	18-Dec-2012 15:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	11
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

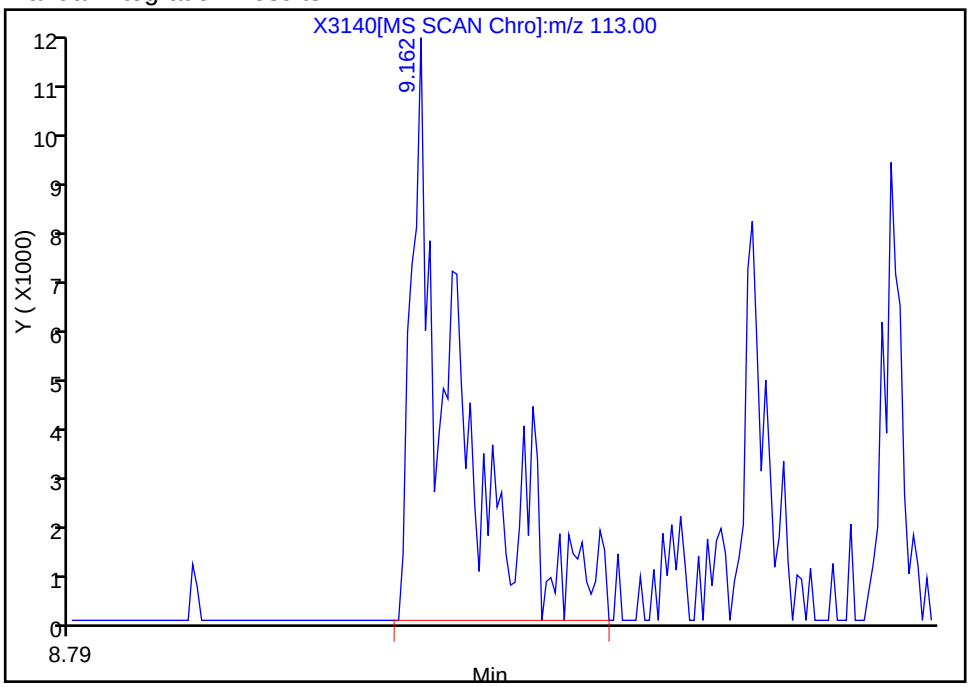
Processing Integration Results

RT: 9.16
Response: 13667
Amount: 0.572335



Manual Integration Results

RT: 9.16
Response: 37931
Amount: 1.588441



Reviewer: mckernar, 18-Dec-2012 16:19:10
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

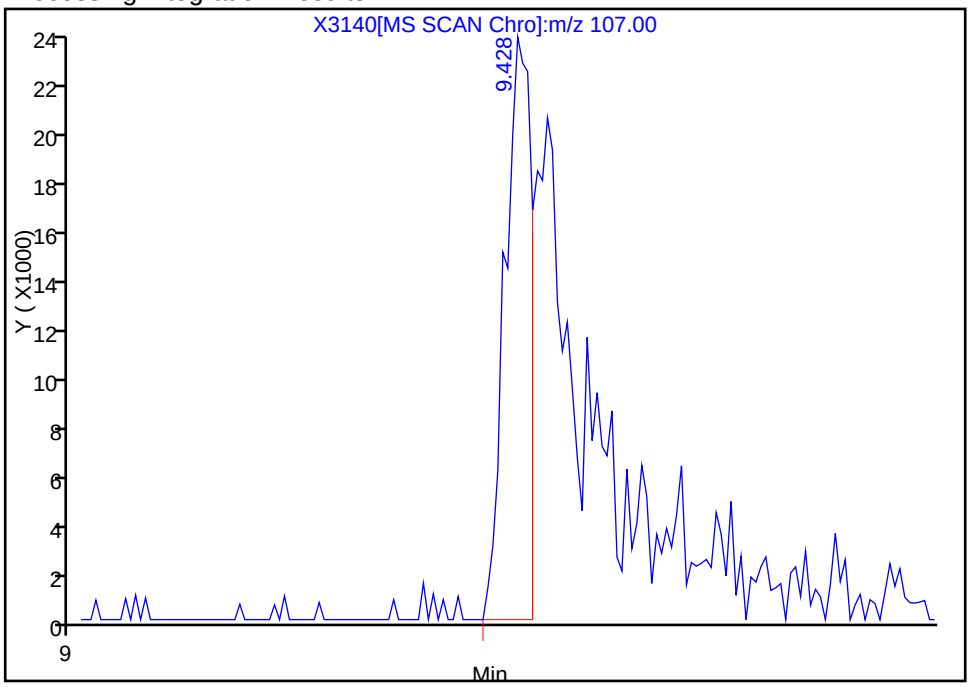
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3140.D		
Injection Date:	18-Dec-2012 15:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	11
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

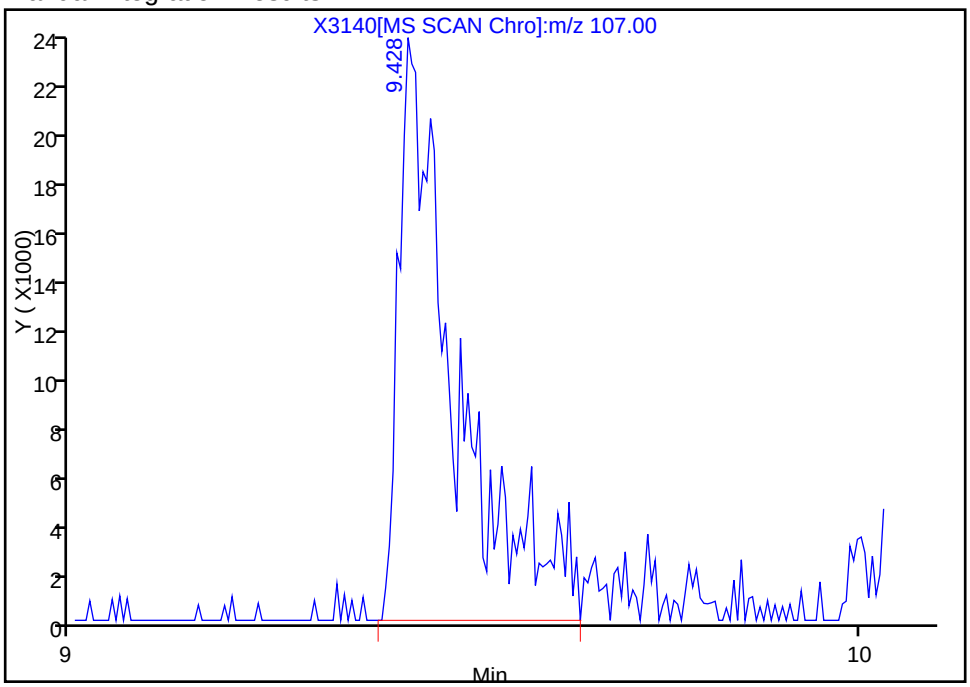
Processing Integration Results

RT: 9.43
Response: 41238
Amount: 0.582979



Manual Integration Results

RT: 9.43
Response: 117178
Amount: 1.656539



Reviewer: mckernar, 18-Dec-2012 16:19:10
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:26 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

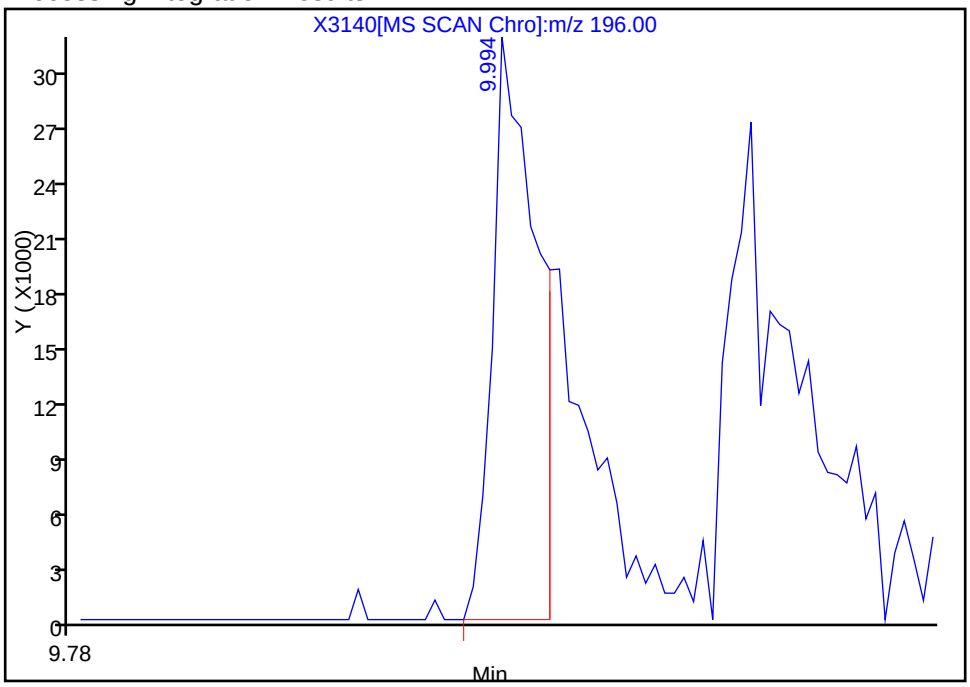
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3140.D		
Injection Date:	18-Dec-2012 15:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	11
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: 10.01

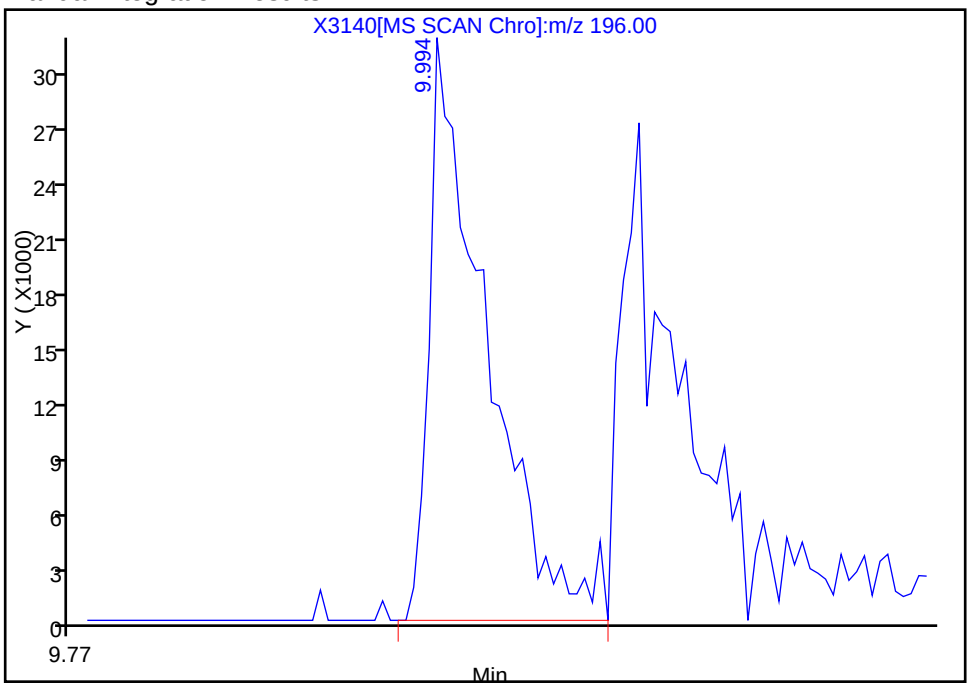
Processing Integration Results

RT: 9.99
Response: 47841
Amount: 1.292967



Manual Integration Results

RT: 9.99
Response: 75303
Amount: 2.035164



Reviewer: mckernar, 18-Dec-2012 16:19:10
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:26 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

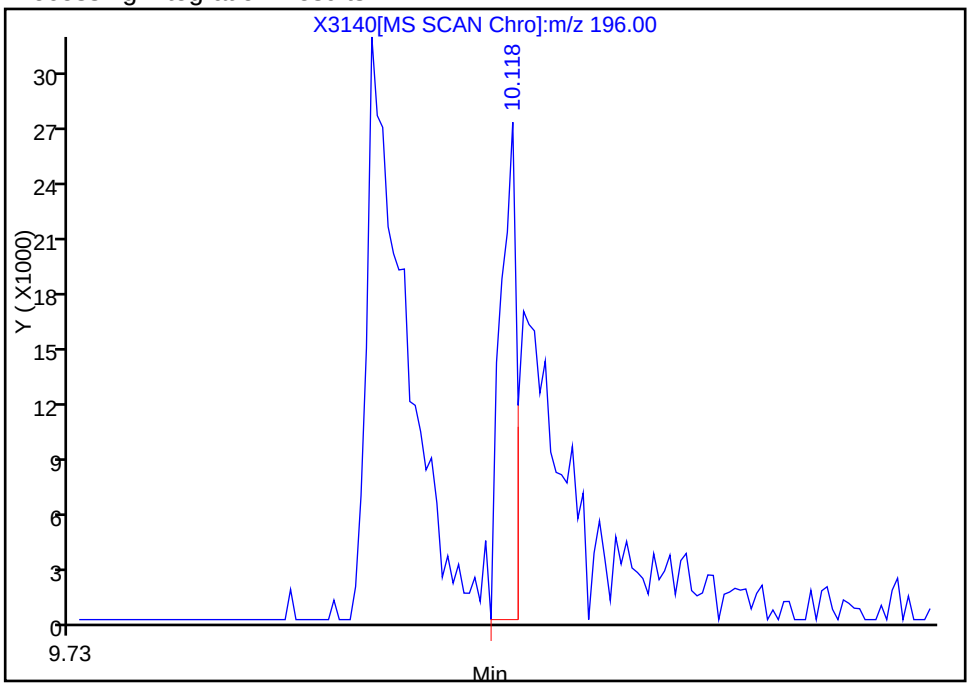
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3140.D		
Injection Date:	18-Dec-2012 15:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	11
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: 10.11

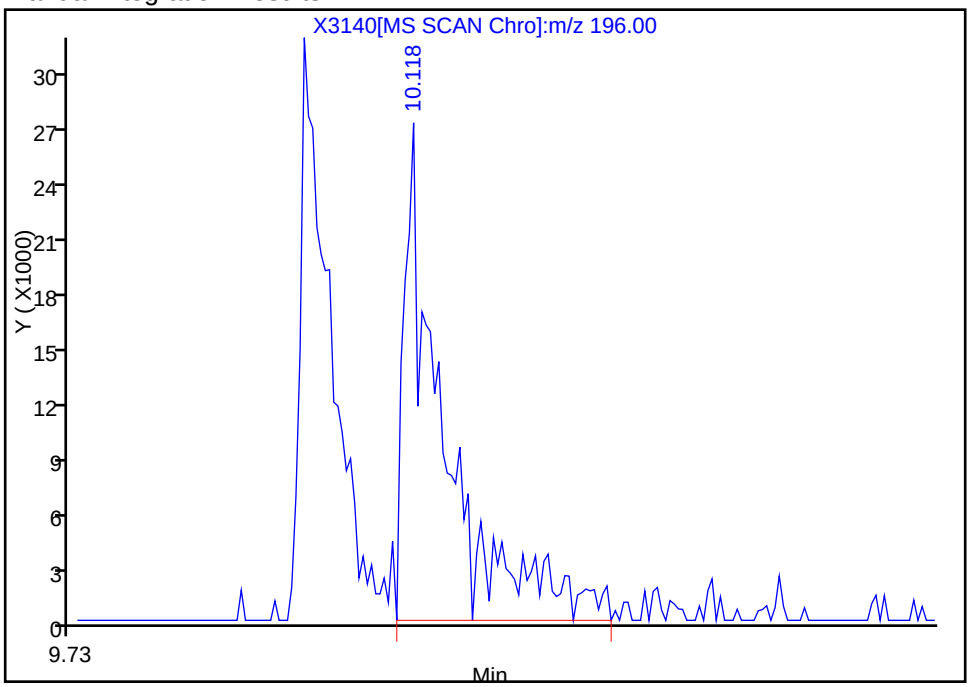
Processing Integration Results

RT: 10.12
Response: 26039
Amount: 0.700403



Manual Integration Results

RT: 10.12
Response: 83695
Amount: 2.251246



Reviewer: mckernar, 18-Dec-2012 16:19:10
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

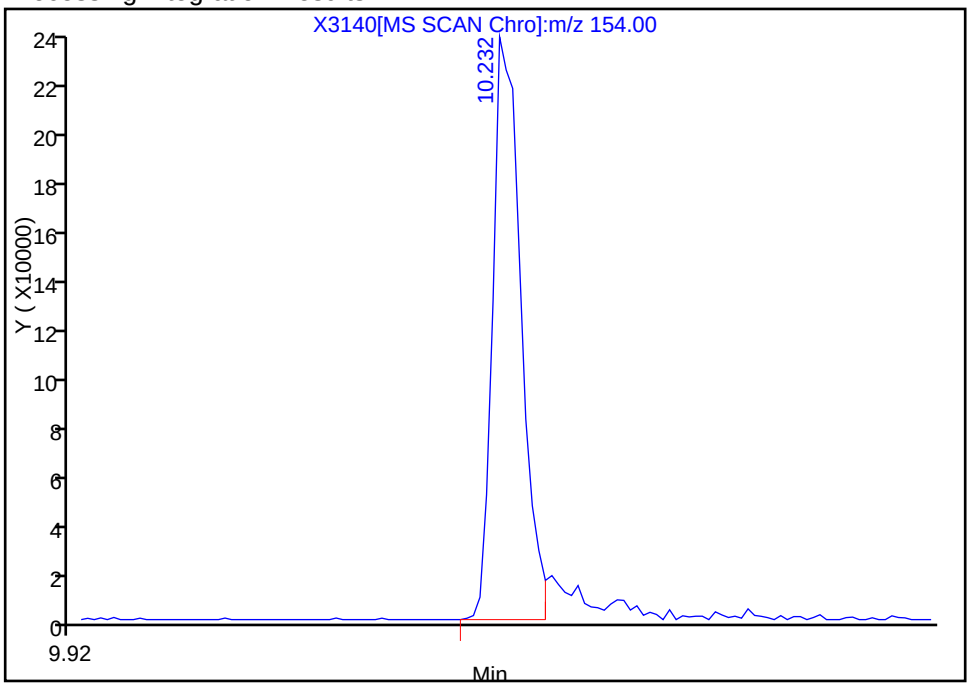
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3140.D		
Injection Date:	18-Dec-2012 15:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	11
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: 10.26

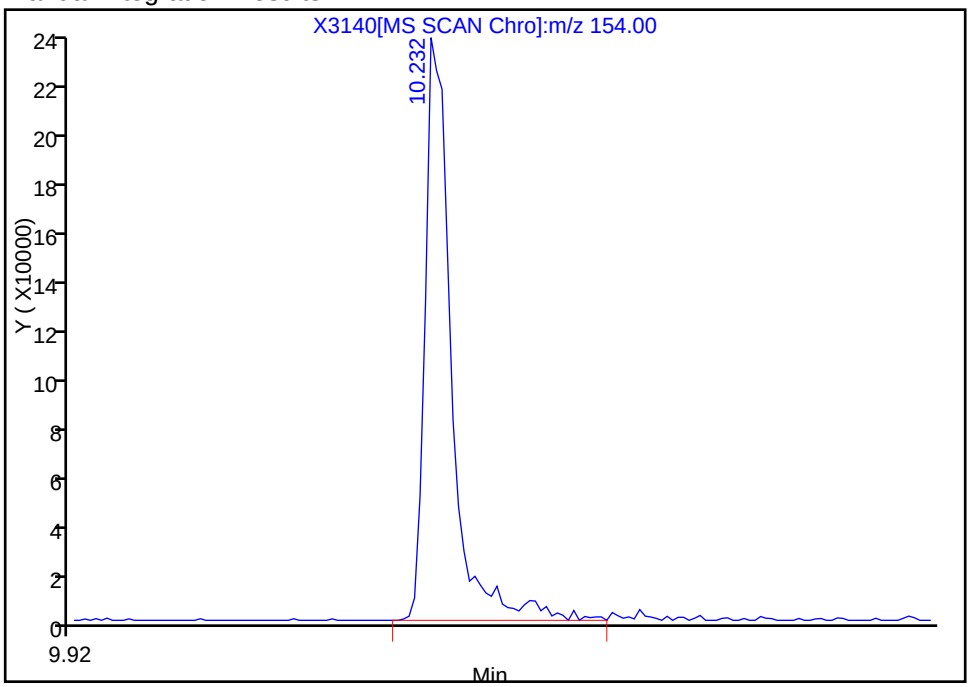
Processing Integration Results

RT: 10.23
Response: 335199
Amount: 1.744425



Manual Integration Results

RT: 10.23
Response: 373266
Amount: 1.942531



Reviewer: mckernar, 18-Dec-2012 16:19:10
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

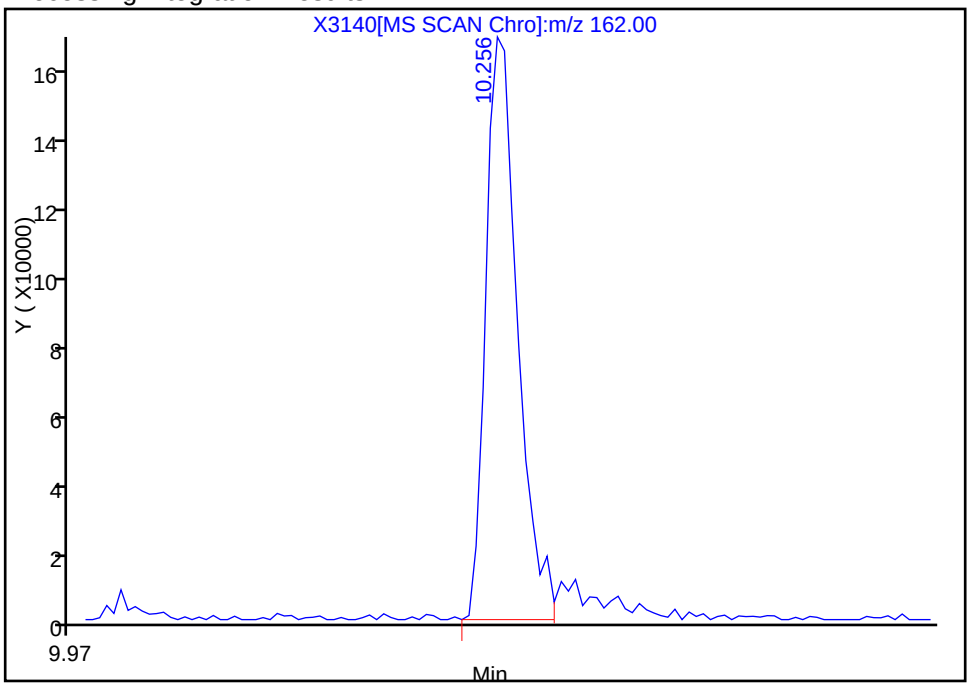
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3140.D		
Injection Date:	18-Dec-2012 15:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	11
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: 10.30

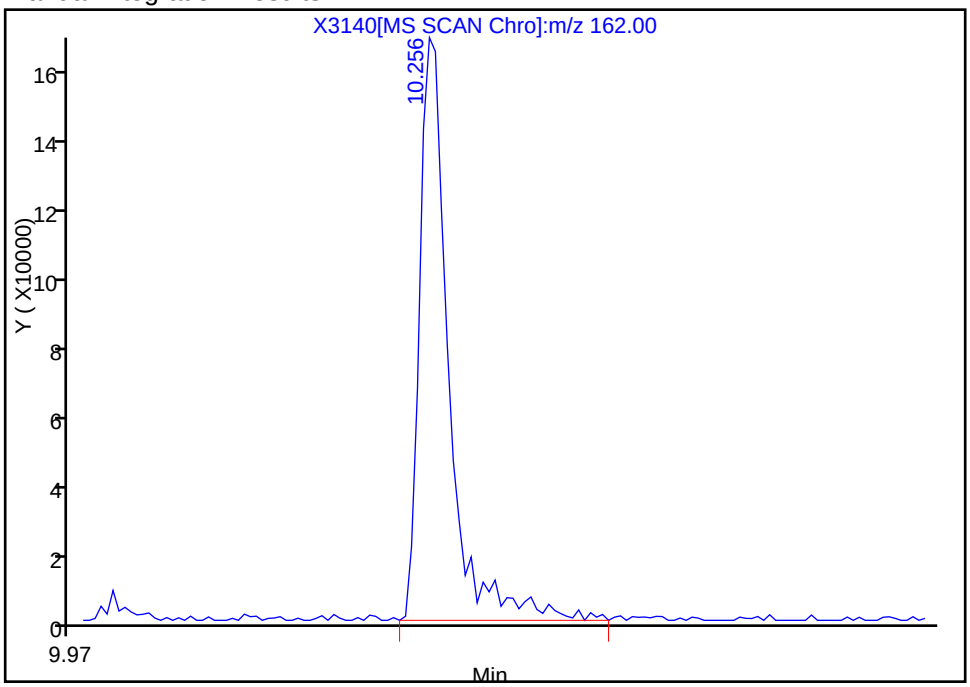
Processing Integration Results

RT: 10.26
Response: 241778
Amount: 1.470657



Manual Integration Results

RT: 10.26
Response: 265973
Amount: 1.617828



Reviewer: mckernar, 18-Dec-2012 16:19:10
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:26 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

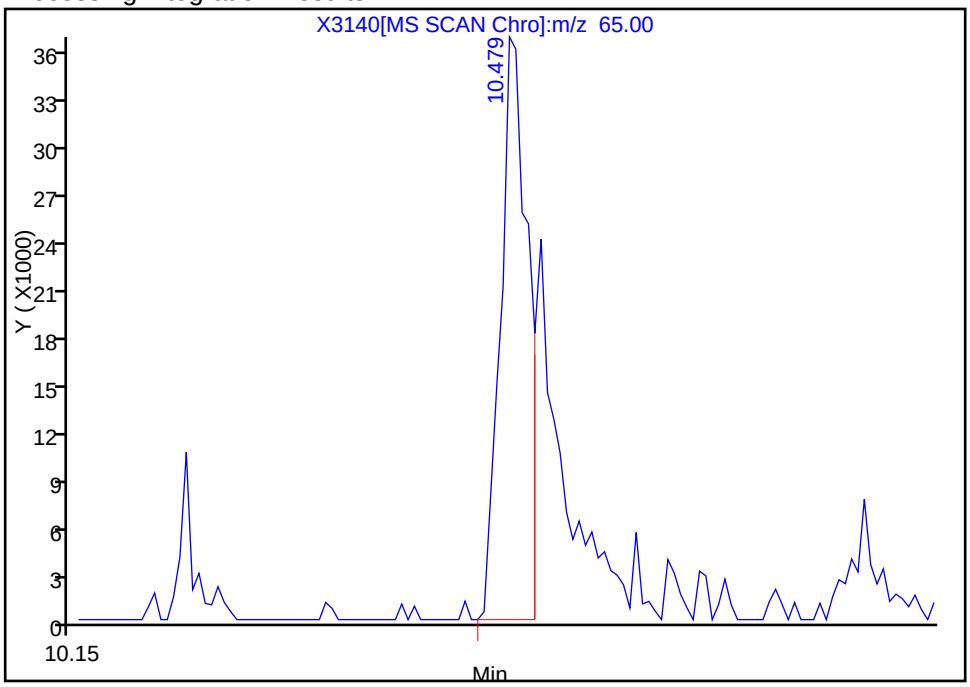
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3140.D		
Injection Date:	18-Dec-2012 15:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	11
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: 10.48

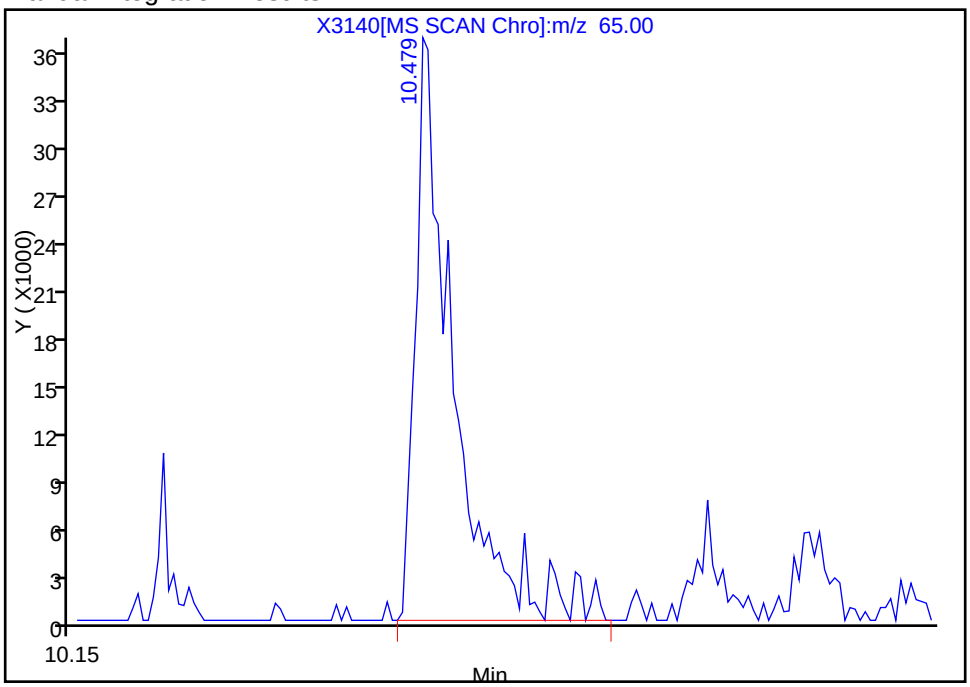
Processing Integration Results

RT: 10.48
Response: 52544
Amount: 1.446236



Manual Integration Results

RT: 10.48
Response: 90588
Amount: 2.493371



Reviewer: mckernar, 18-Dec-2012 16:19:10
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

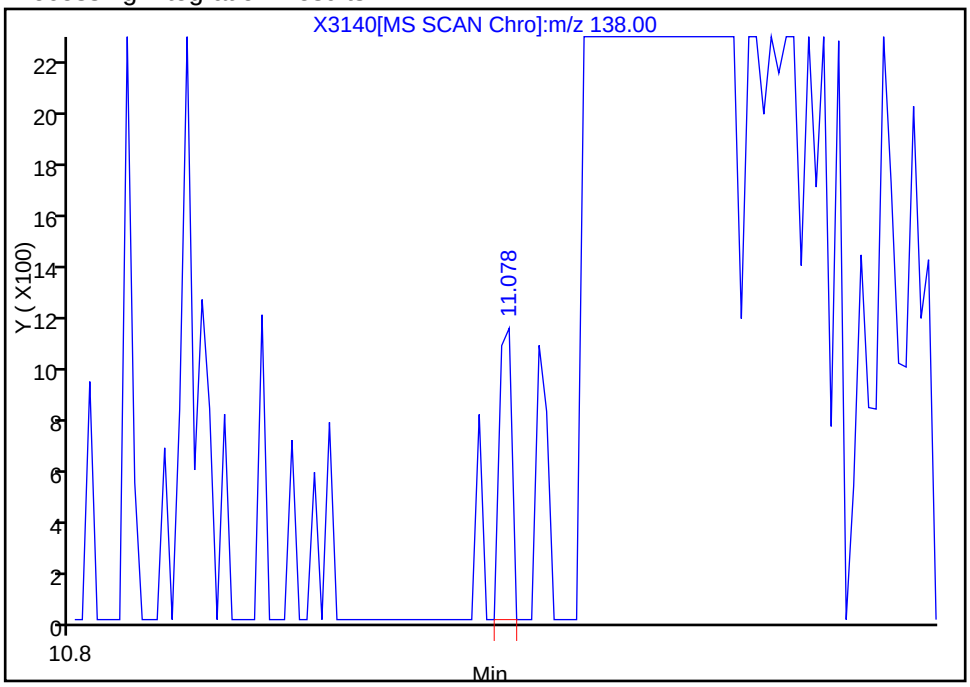
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3140.D		
Injection Date:	18-Dec-2012 15:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	11
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: 11.13

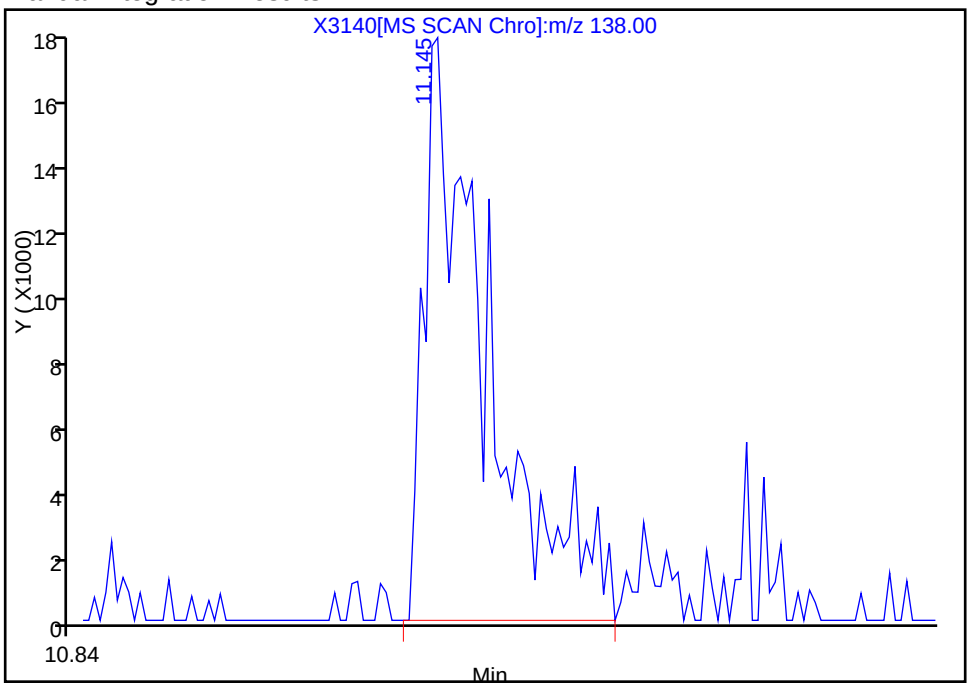
Processing Integration Results

RT: 11.08
Response: 633
Amount: 0.016639



Manual Integration Results

RT: 11.14
Response: 62483
Amount: 1.642402



Reviewer: mckernar, 18-Dec-2012 16:19:10
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

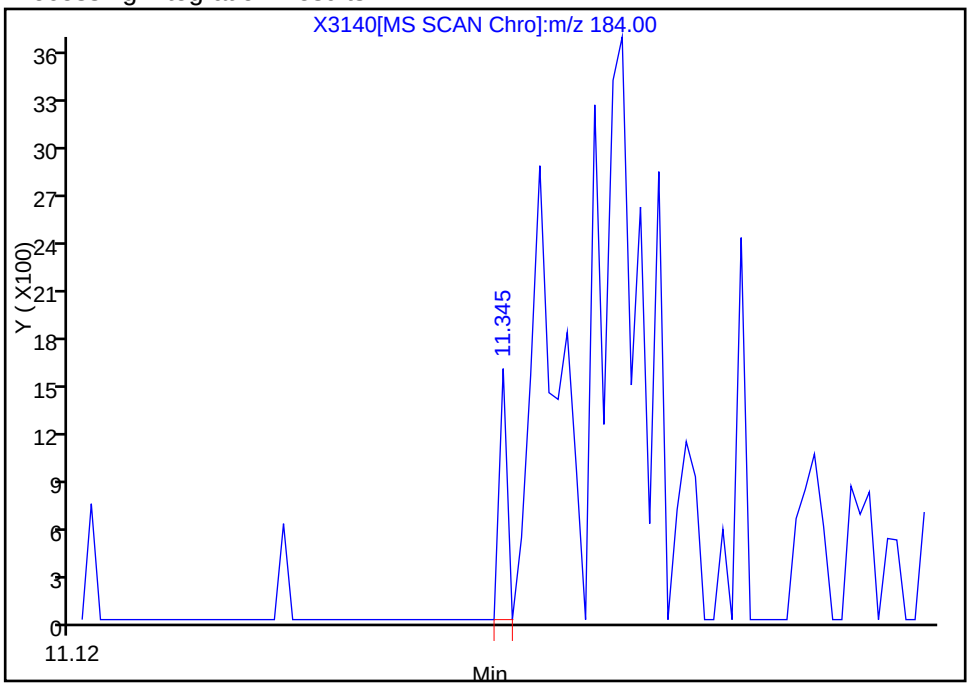
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3140.D		
Injection Date:	18-Dec-2012 15:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	11
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

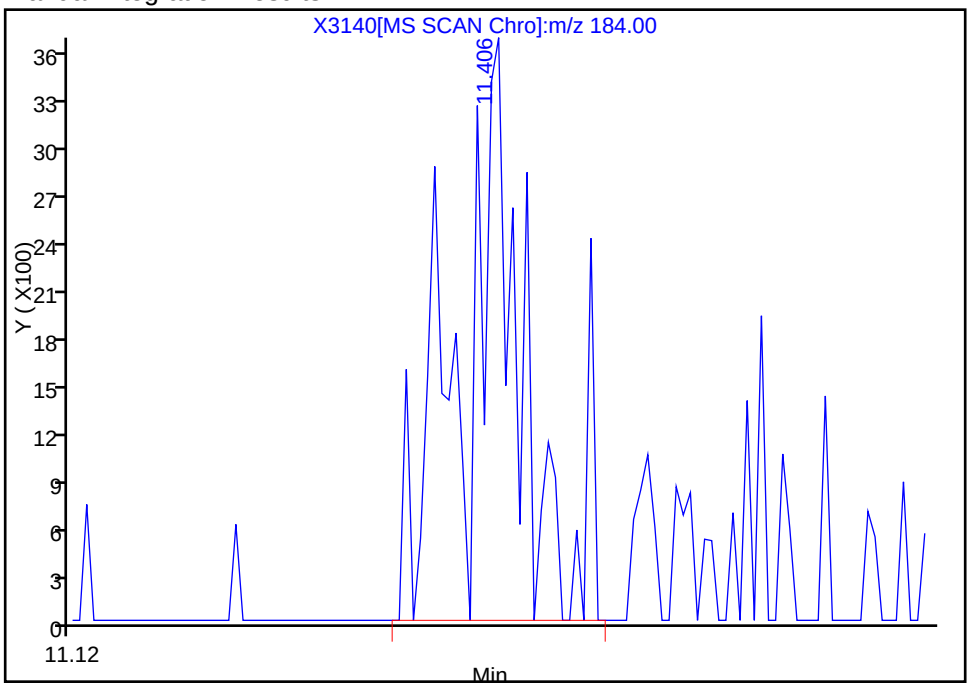
Processing Integration Results

RT: 11.34
Response: 450
Amount: 0.049359



Manual Integration Results

RT: 11.41
Response: 10459
Amount: 1.147224



Reviewer: mckernar, 18-Dec-2012 16:19:10
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

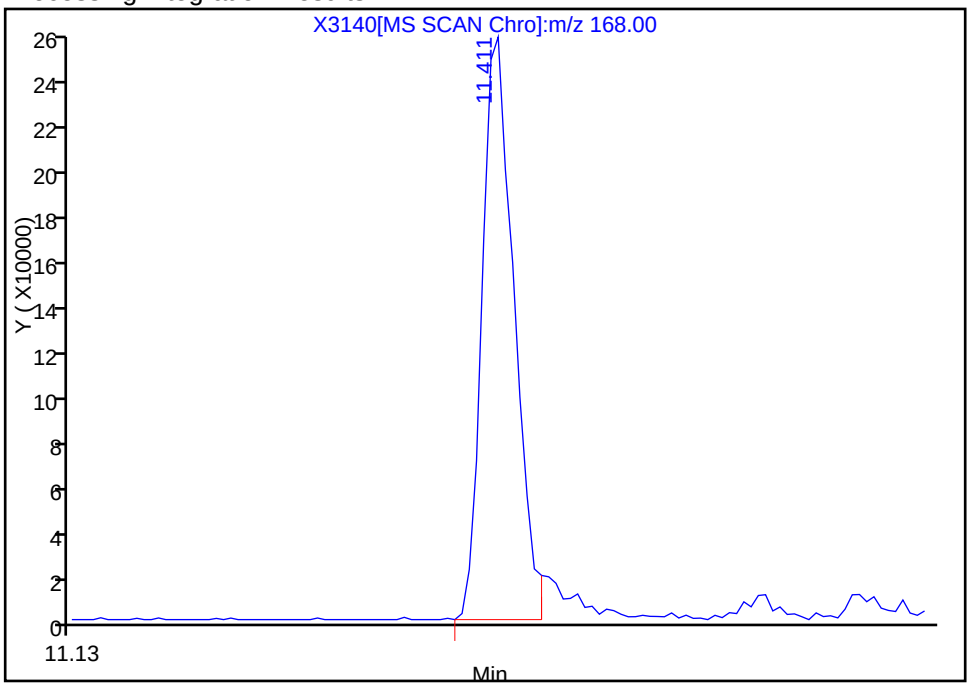
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3140.D		
Injection Date:	18-Dec-2012 15:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	11
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: 11.43

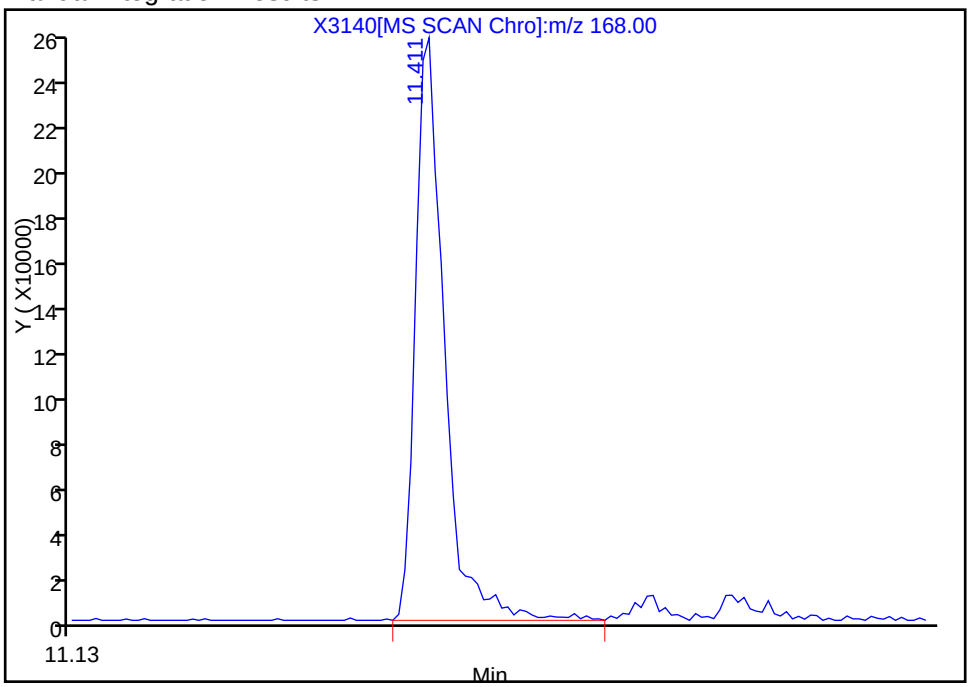
Processing Integration Results

RT: 11.41
Response: 376108
Amount: 1.822713



Manual Integration Results

RT: 11.41
Response: 405988
Amount: 1.967519



Reviewer: mckernar, 18-Dec-2012 16:19:10
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:26 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

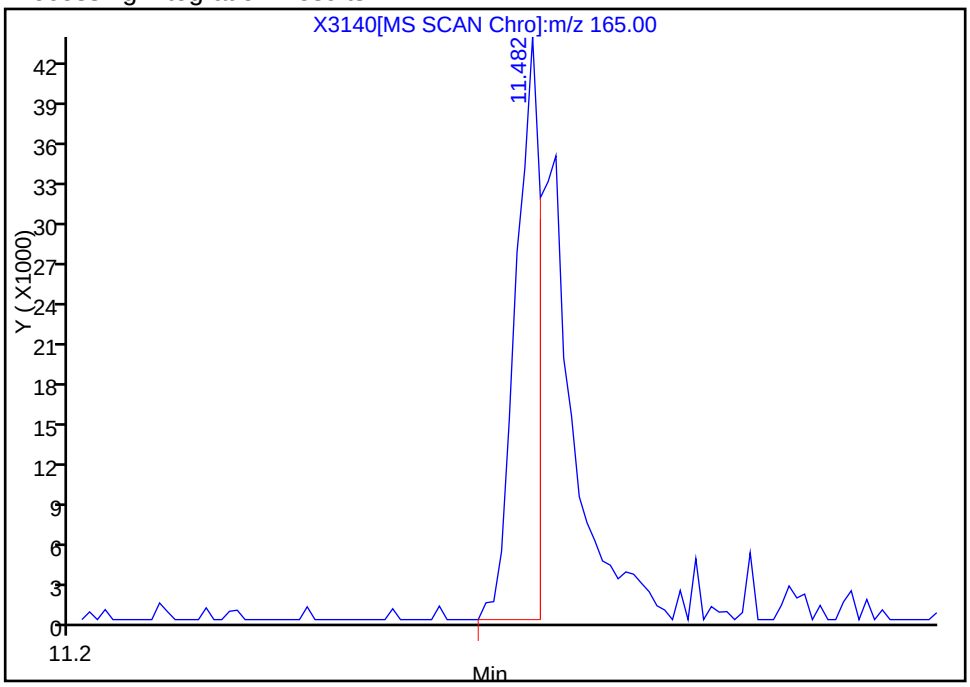
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3140.D		
Injection Date:	18-Dec-2012 15:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	11
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: 11.47

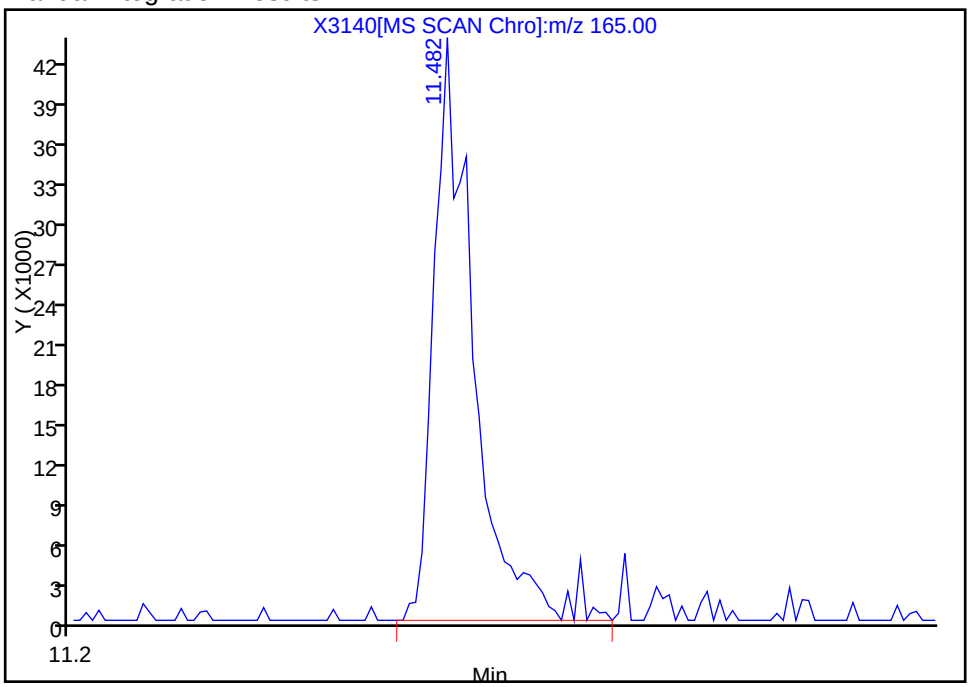
Processing Integration Results

RT: 11.48
Response: 44972
Amount: 1.077257



Manual Integration Results

RT: 11.48
Response: 89819
Amount: 2.151520



Reviewer: mckernar, 18-Dec-2012 16:19:10
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

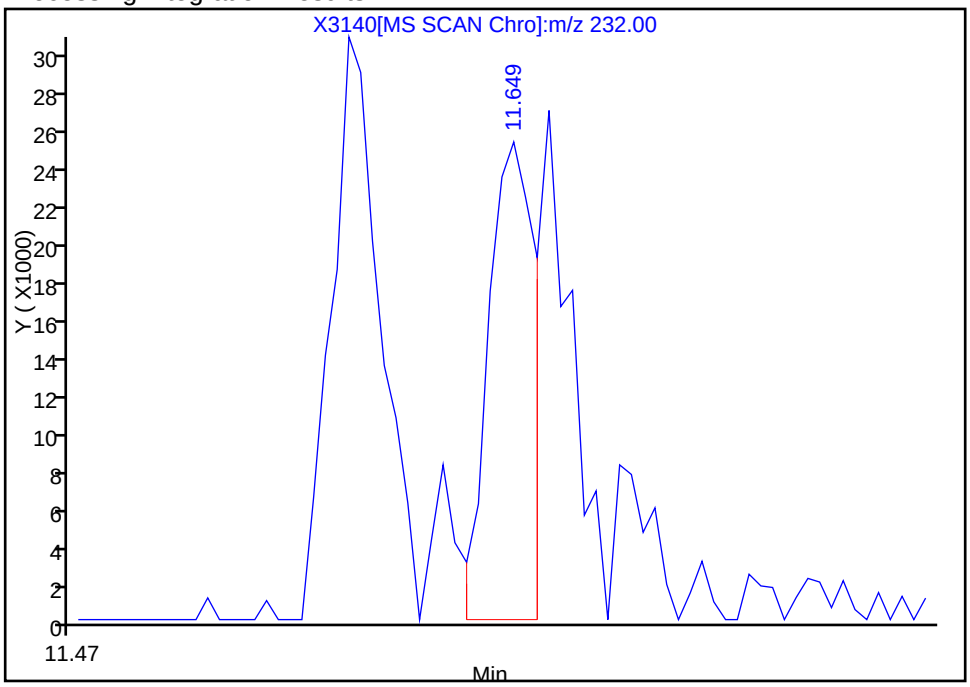
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3140.D		
Injection Date:	18-Dec-2012 15:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	11
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: 11.65

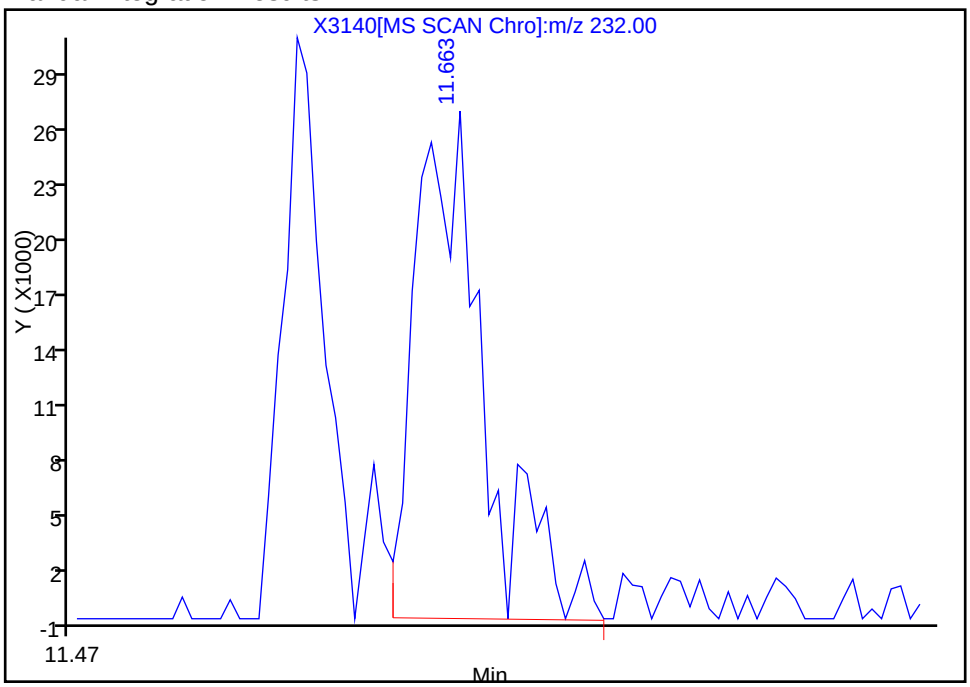
Processing Integration Results

RT: 11.65
Response: 33279
Amount: 0.951247



Manual Integration Results

RT: 11.66
Response: 63884
Amount: 1.826061



Reviewer: mckernar, 18-Dec-2012 16:19:10
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

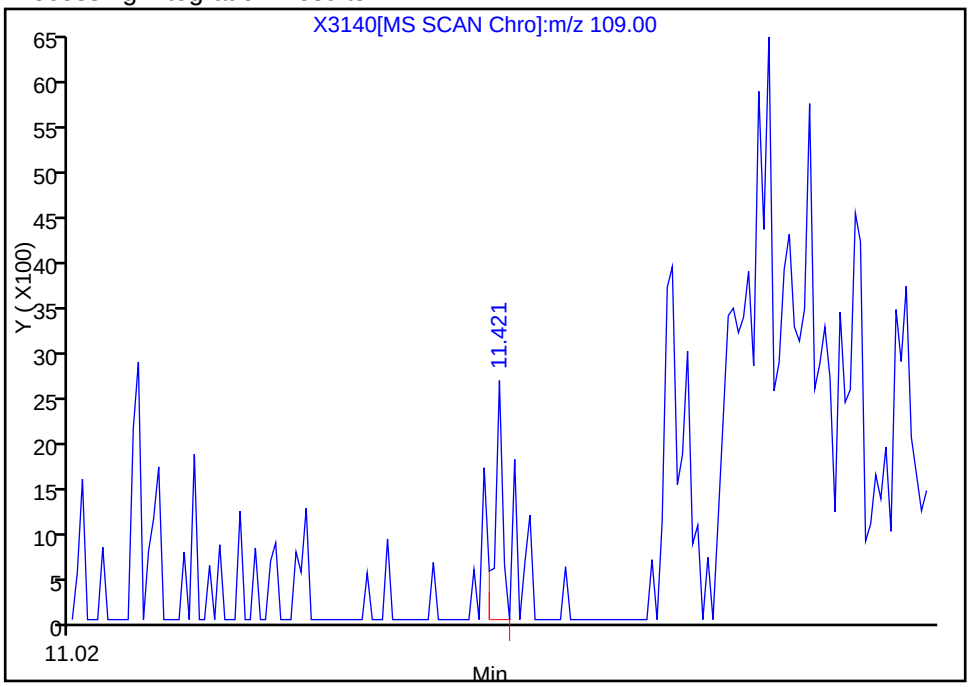
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3140.D		
Injection Date:	18-Dec-2012 15:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	11
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

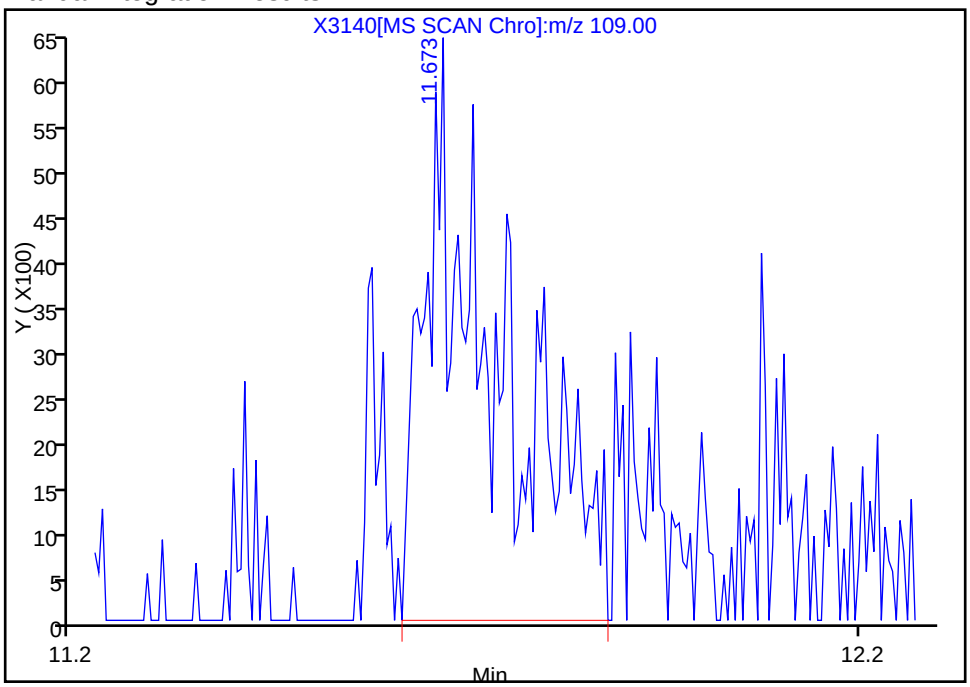
Processing Integration Results

RT: 11.42
Response: 1240
Amount: 0.041594



Manual Integration Results

RT: 11.67
Response: 40602
Amount: 1.361951



Reviewer: mckernar, 18-Dec-2012 16:19:10
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:26 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

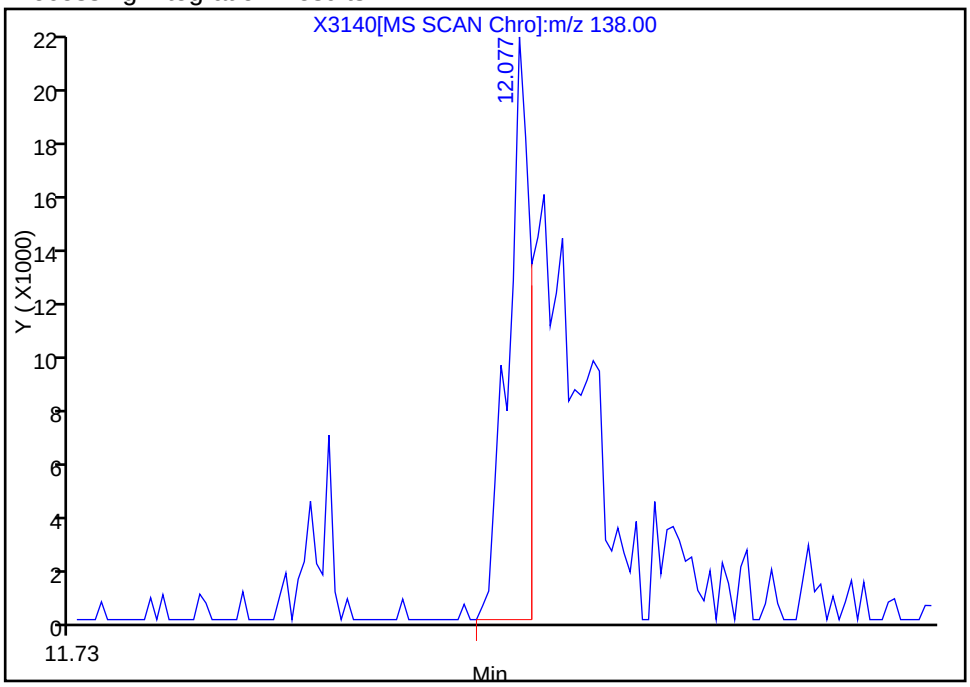
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3140.D		
Injection Date:	18-Dec-2012 15:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	11
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: 12.04

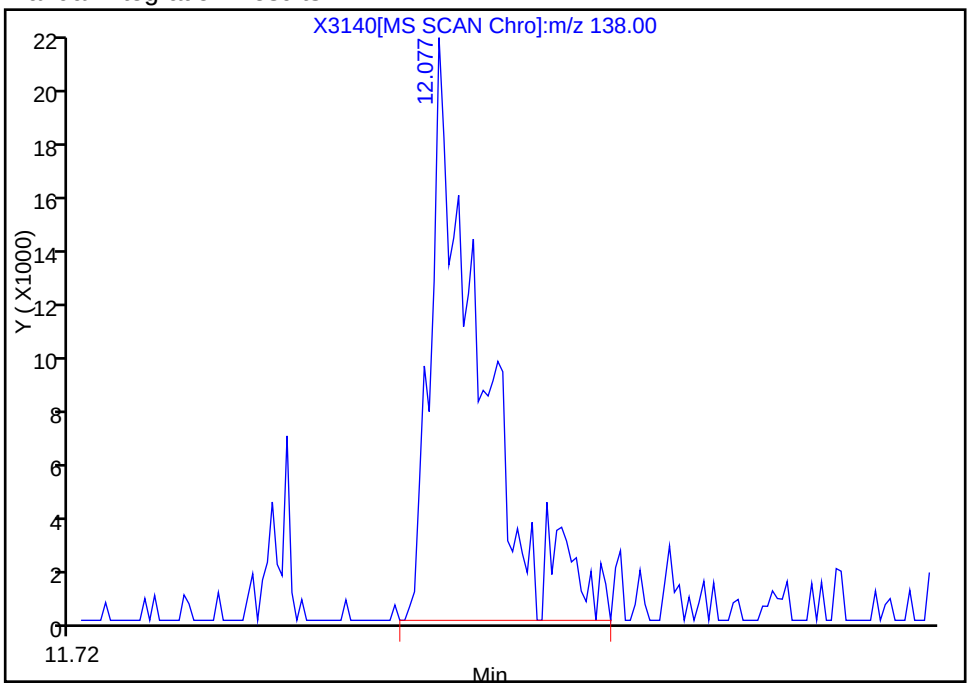
Processing Integration Results

RT: 12.08
Response: 25027
Amount: 0.693563



Manual Integration Results

RT: 12.08
Response: 71078
Amount: 1.969754



Reviewer: mckernar, 18-Dec-2012 16:19:10
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

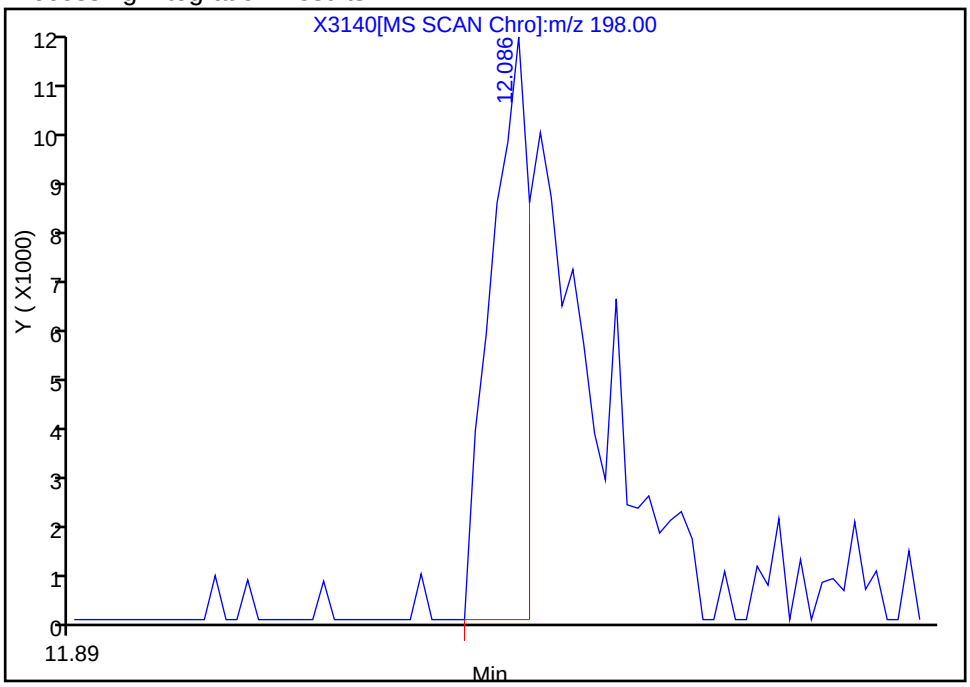
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3140.D		
Injection Date:	18-Dec-2012 15:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	11
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: 12.06

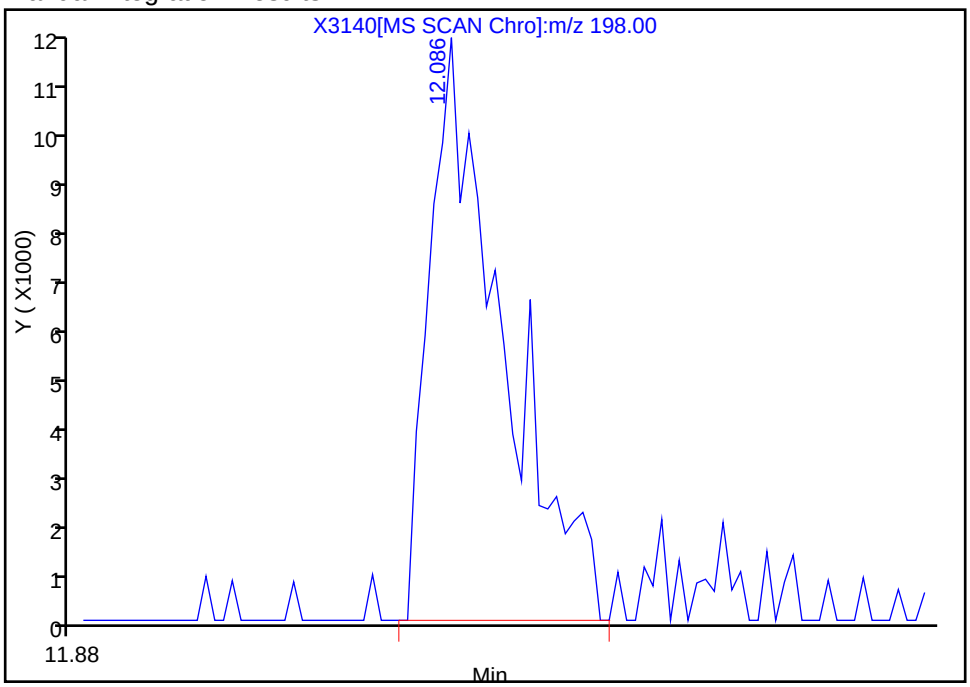
Processing Integration Results

RT: 12.09
Response: 13798
Amount: 0.854679



Manual Integration Results

RT: 12.09
Response: 32563
Amount: 2.017024



Reviewer: mckernar, 18-Dec-2012 16:19:10
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

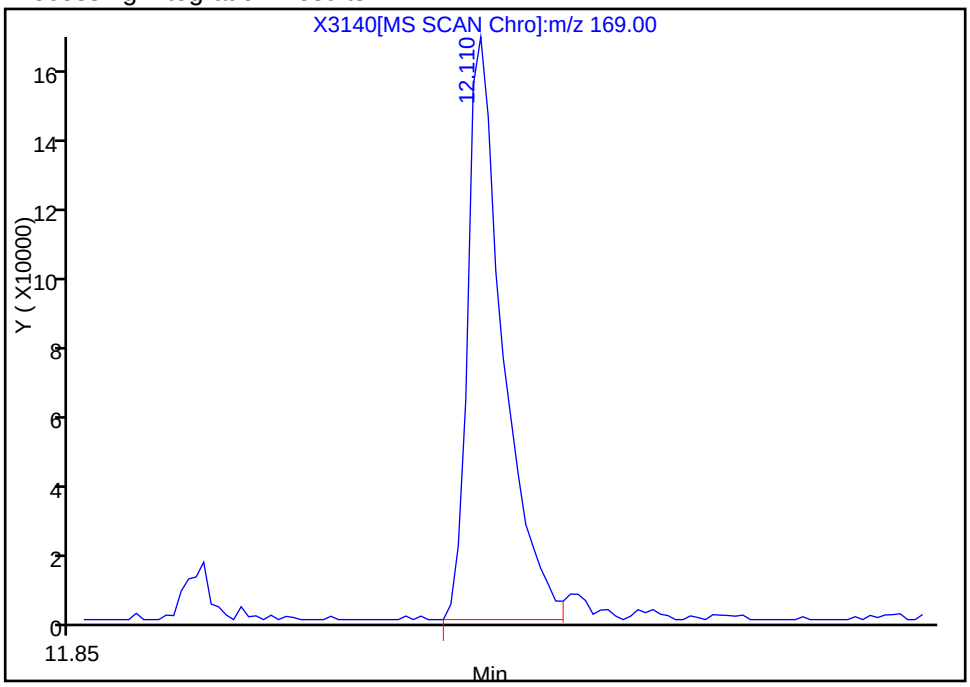
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3140.D		
Injection Date:	18-Dec-2012 15:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	11
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

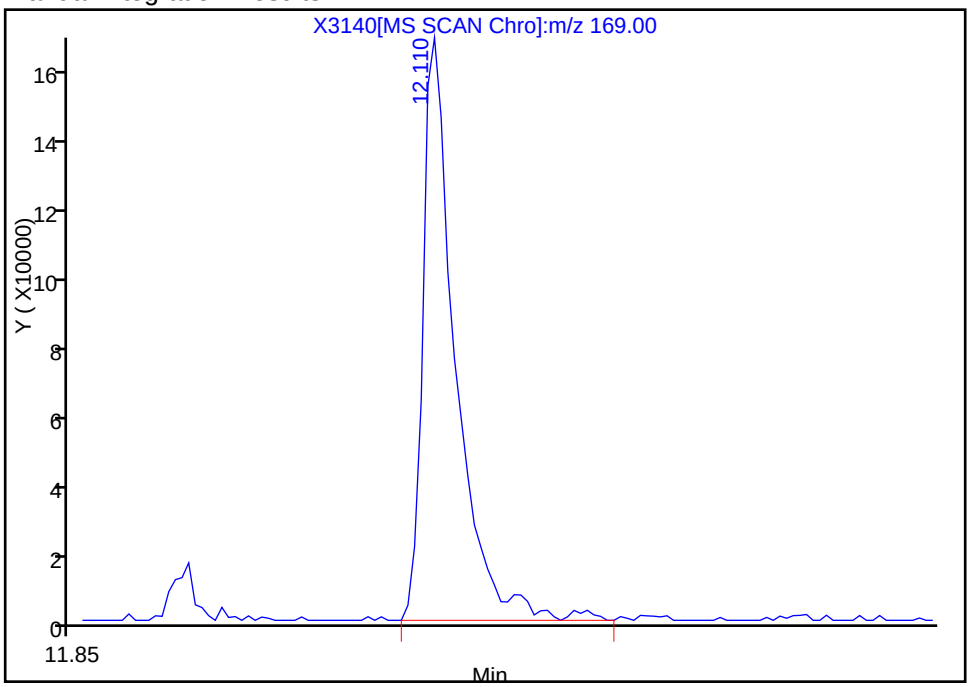
Processing Integration Results

RT: 12.11
Response: 254640
Amount: 0.834893



Manual Integration Results

RT: 12.11
Response: 265709
Amount: 0.871185



Reviewer: mckernar, 18-Dec-2012 16:19:10
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

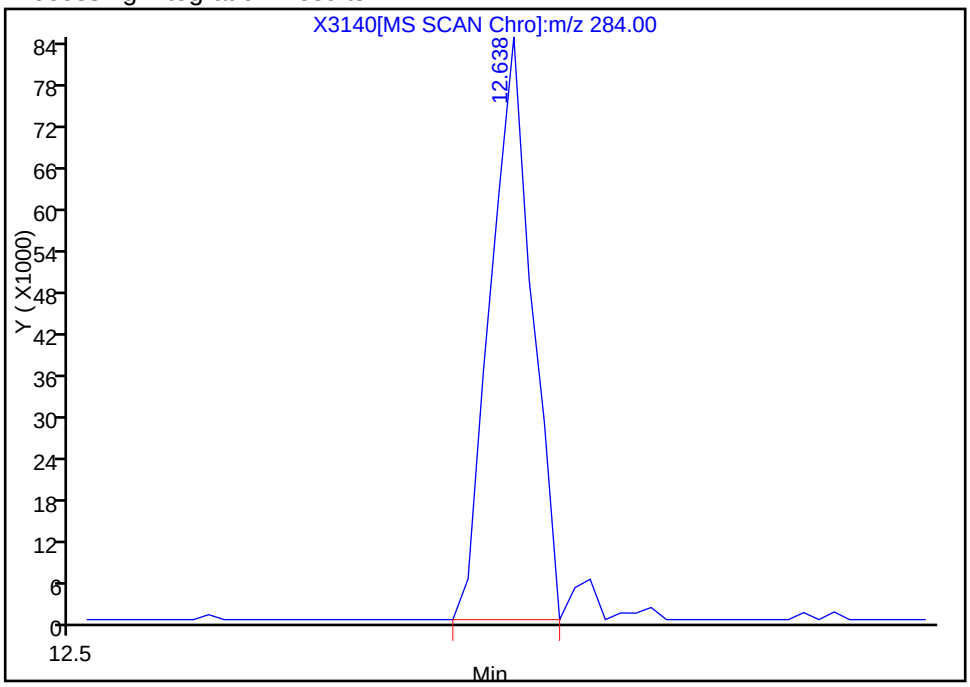
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3140.D		
Injection Date:	18-Dec-2012 15:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	11
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

91 Hexachlorobenzene, Signal: 1, m/z: 284.0 Type: quant, RT: 12.65

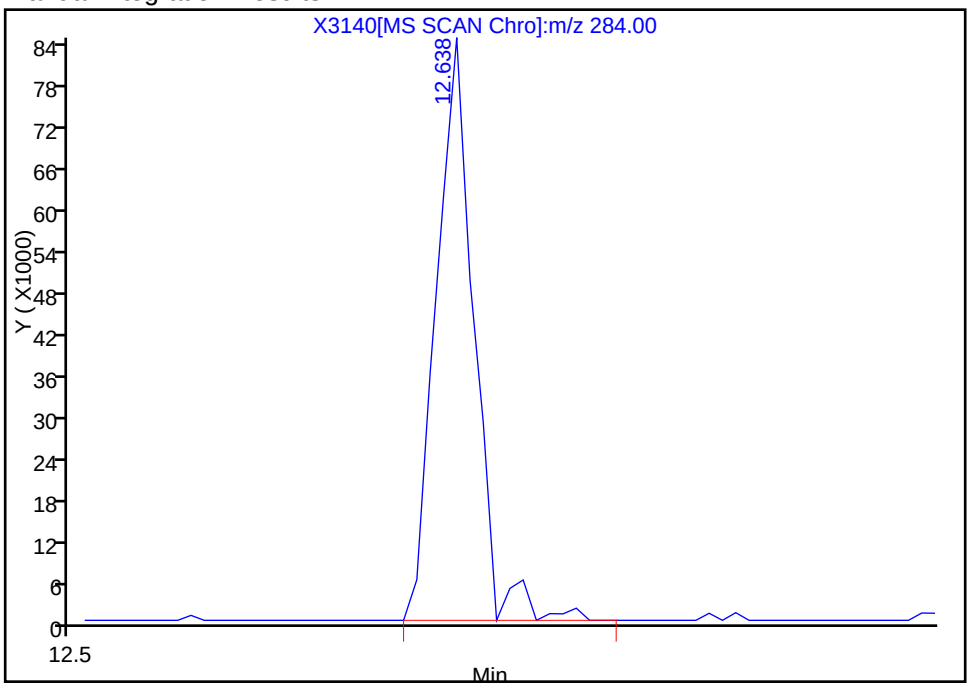
Processing Integration Results

RT: 12.64
Response: 75592
Amount: 1.559551



Manual Integration Results

RT: 12.64
Response: 79625
Amount: 1.642757



Reviewer: mckernar, 18-Dec-2012 16:19:10
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

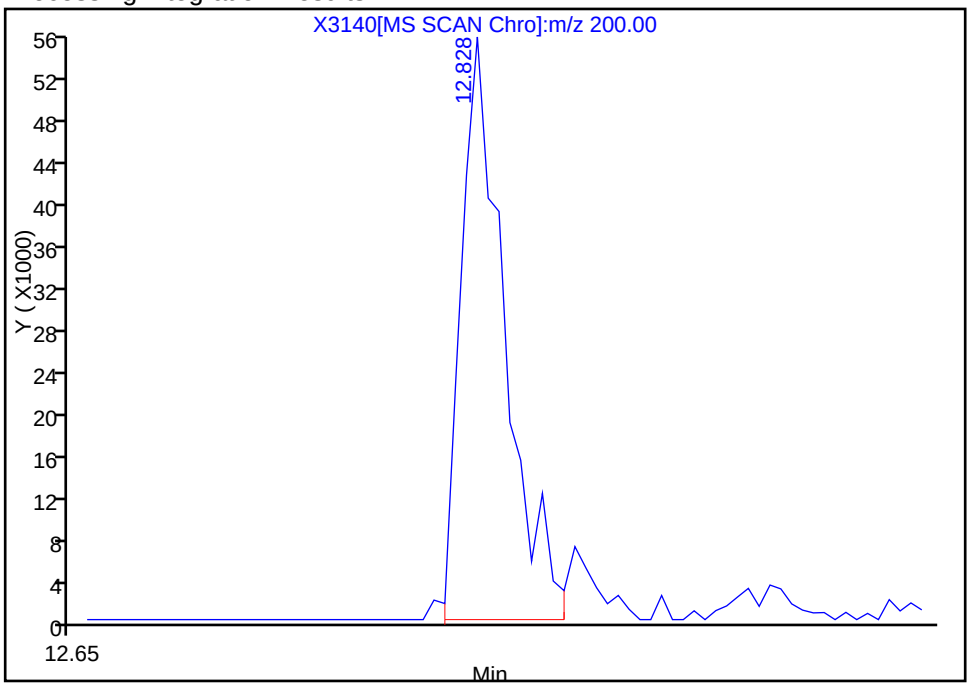
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3140.D		
Injection Date:	18-Dec-2012 15:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	11
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

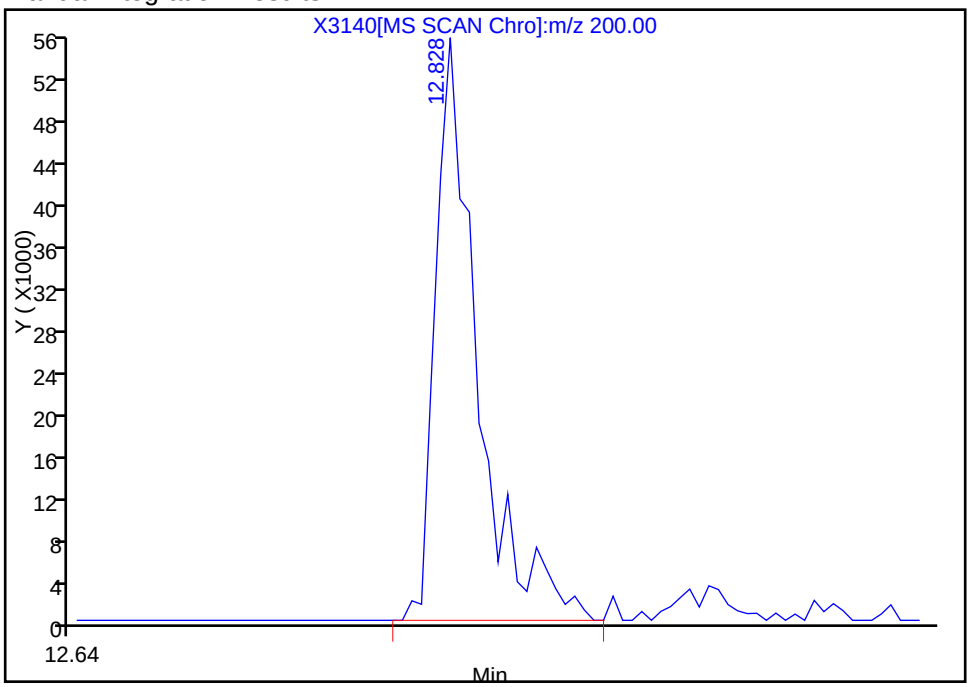
Processing Integration Results

RT: 12.83
Response: 74228
Amount: 1.528928



Manual Integration Results

RT: 12.83
Response: 80431
Amount: 1.656696



Reviewer: mckernar, 18-Dec-2012 16:19:10
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

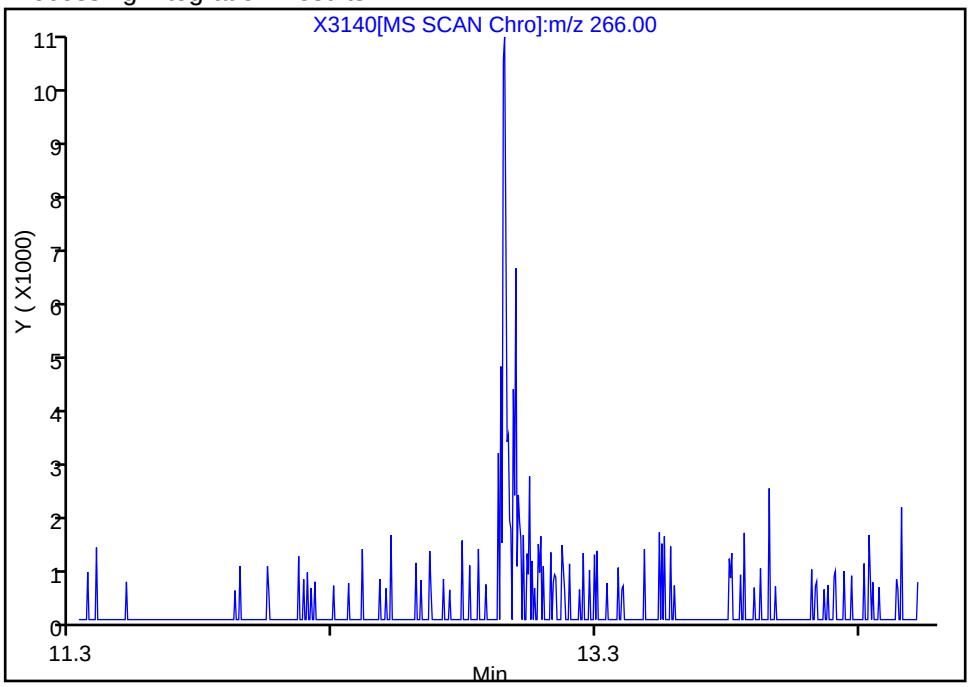
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3140.D		
Injection Date:	18-Dec-2012 15:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	11
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

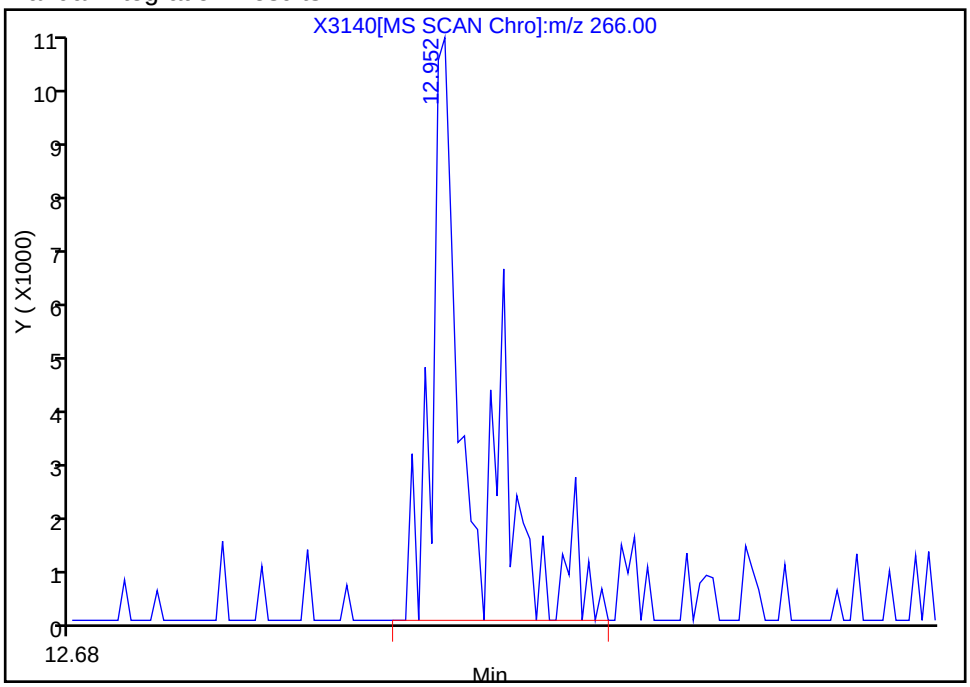
Processing Integration Results

Not Detected
Expected RT: 12.93



Manual Integration Results

RT: 12.95
Response: 19958
Amount: 1.316343



Reviewer: mckernar, 18-Dec-2012 16:19:10
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:26 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

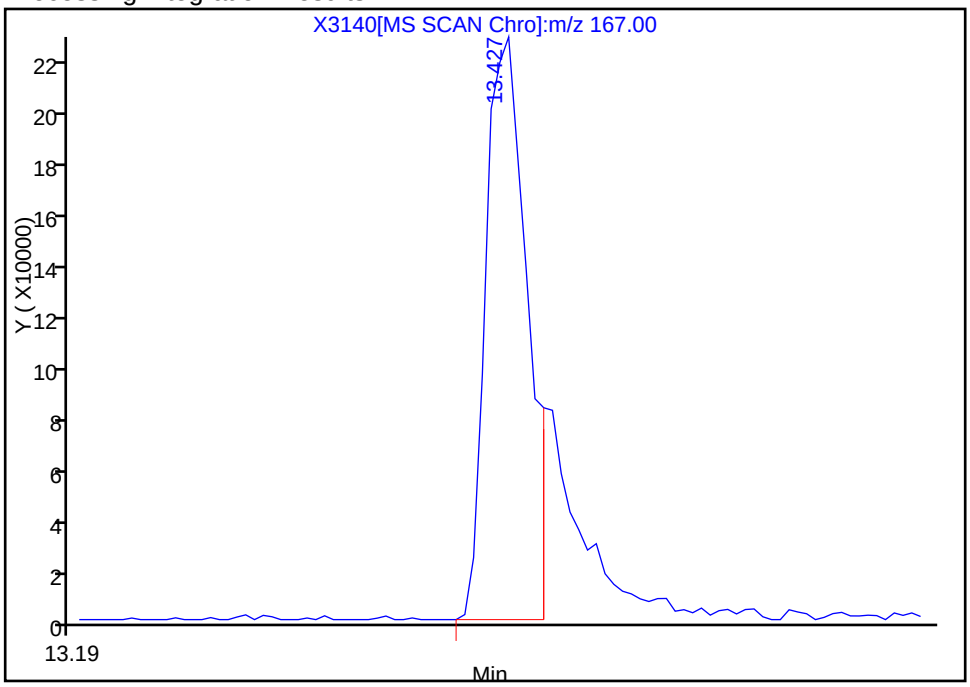
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3140.D		
Injection Date:	18-Dec-2012 15:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	11
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: 13.42

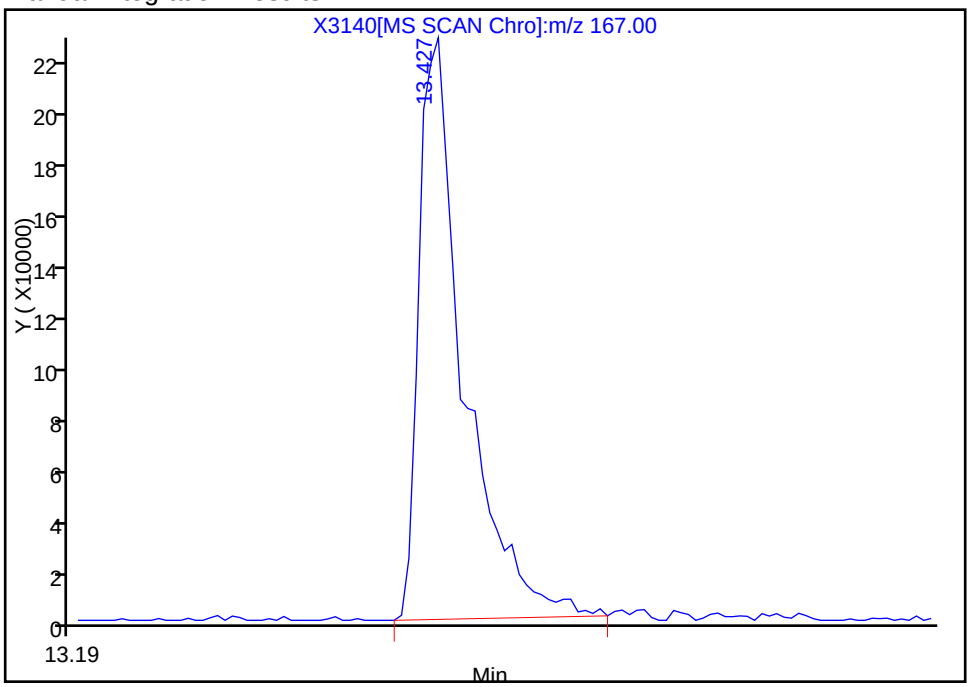
Processing Integration Results

RT: 13.43
Response: 351490
Amount: 1.388560



Manual Integration Results

RT: 13.43
Response: 448758
Amount: 1.772817



Reviewer: mckernar, 18-Dec-2012 16:19:10
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

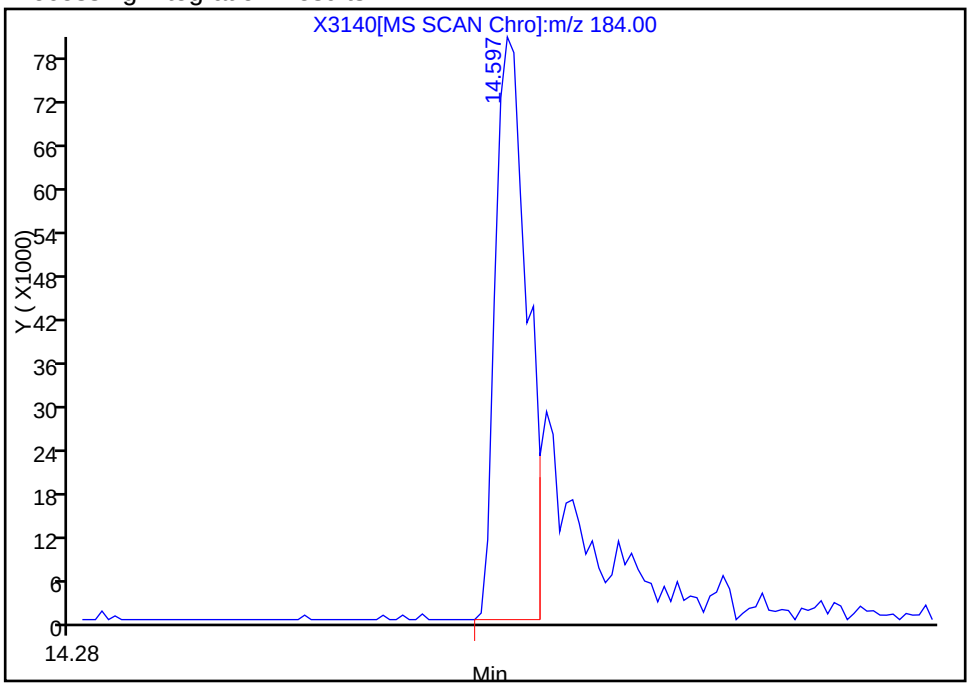
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3140.D		
Injection Date:	18-Dec-2012 15:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	11
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: 14.59

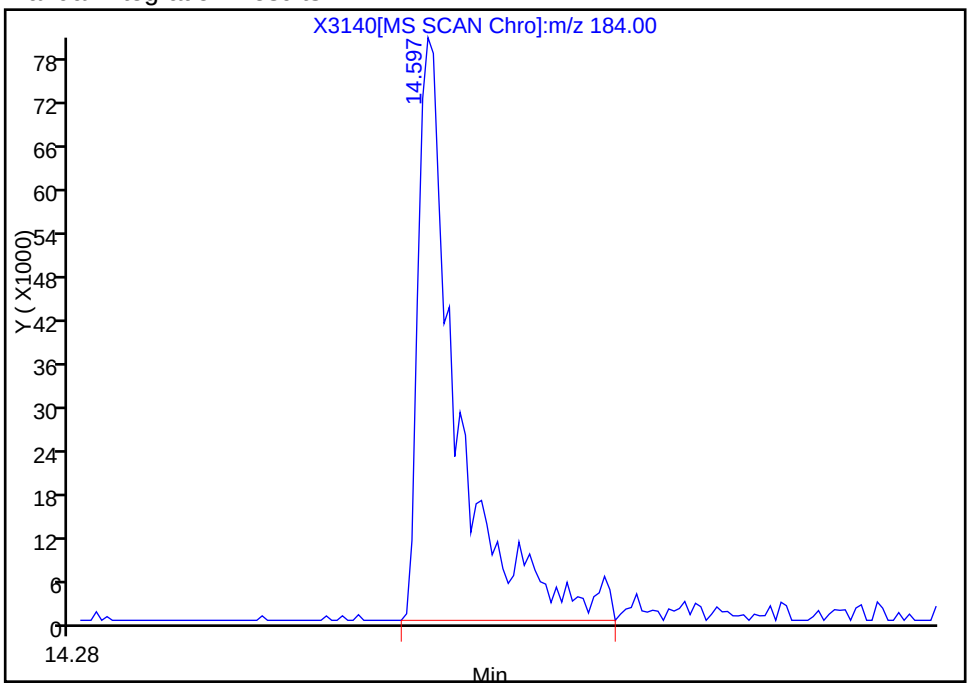
Processing Integration Results

RT: 14.60
Response: 128462
Amount: 0.998863



Manual Integration Results

RT: 14.60
Response: 195886
Amount: 1.523121



Reviewer: mckernar, 18-Dec-2012 16:19:10
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:26 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

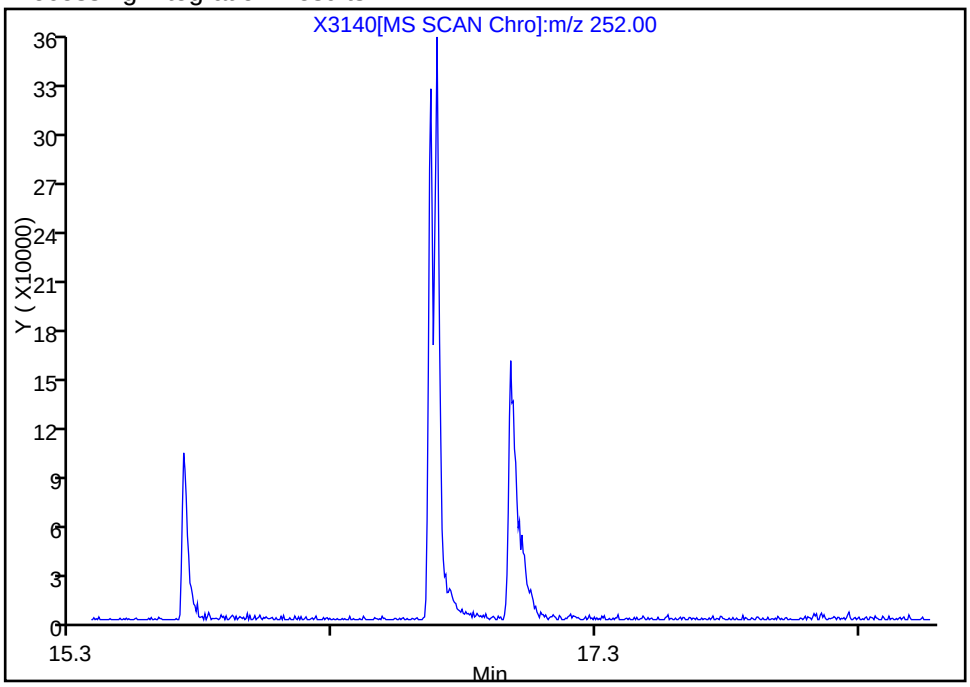
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3140.D		
Injection Date:	18-Dec-2012 15:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	11
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: 16.98

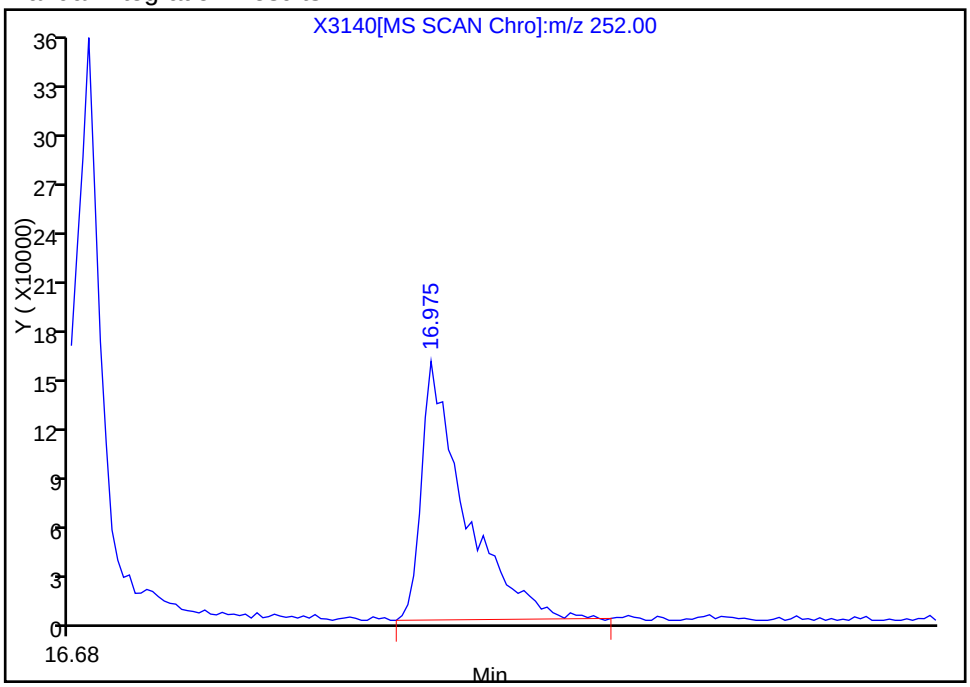
Processing Integration Results

Not Detected
Expected RT: 16.98



Manual Integration Results

RT: 16.98
Response: 393506
Amount: 1.740113



Reviewer: mckernar, 18-Dec-2012 16:19:10
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:26 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

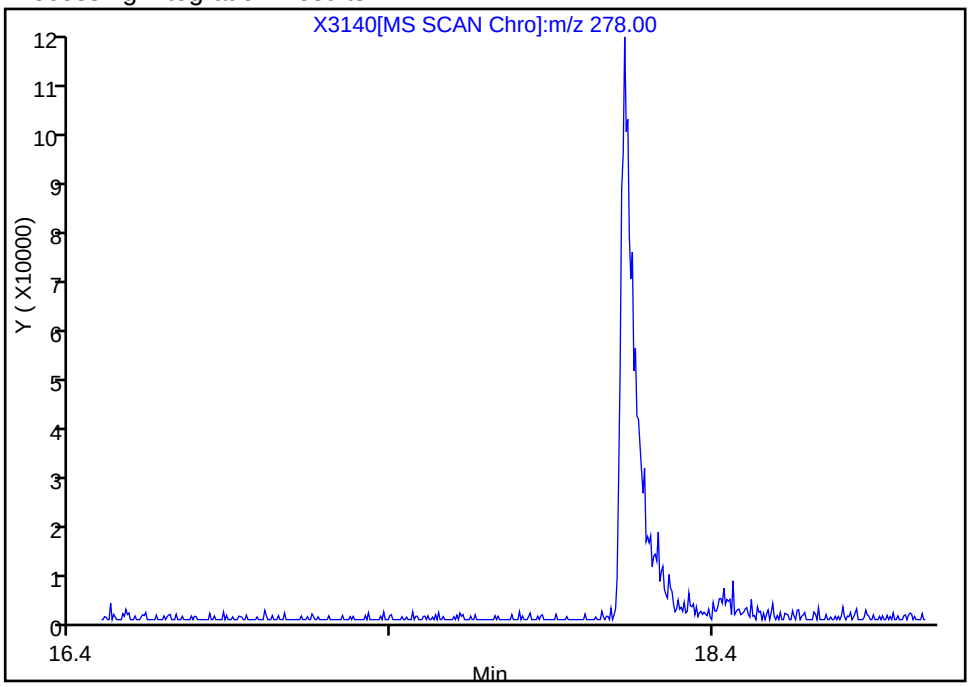
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3140.D		
Injection Date:	18-Dec-2012 15:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	11
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: 18.09

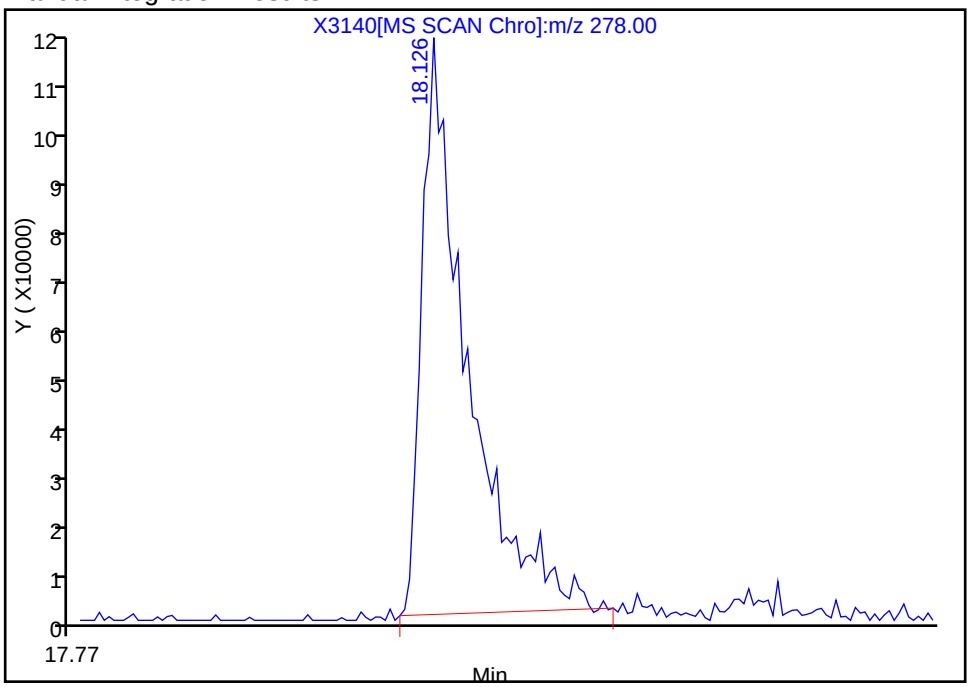
Processing Integration Results

Not Detected
Expected RT: 18.09



Manual Integration Results

RT: 18.13
Response: 355917
Amount: 1.889094



Reviewer: mckernar, 18-Dec-2012 16:19:10
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 18-Dec-2012 16:43:26 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

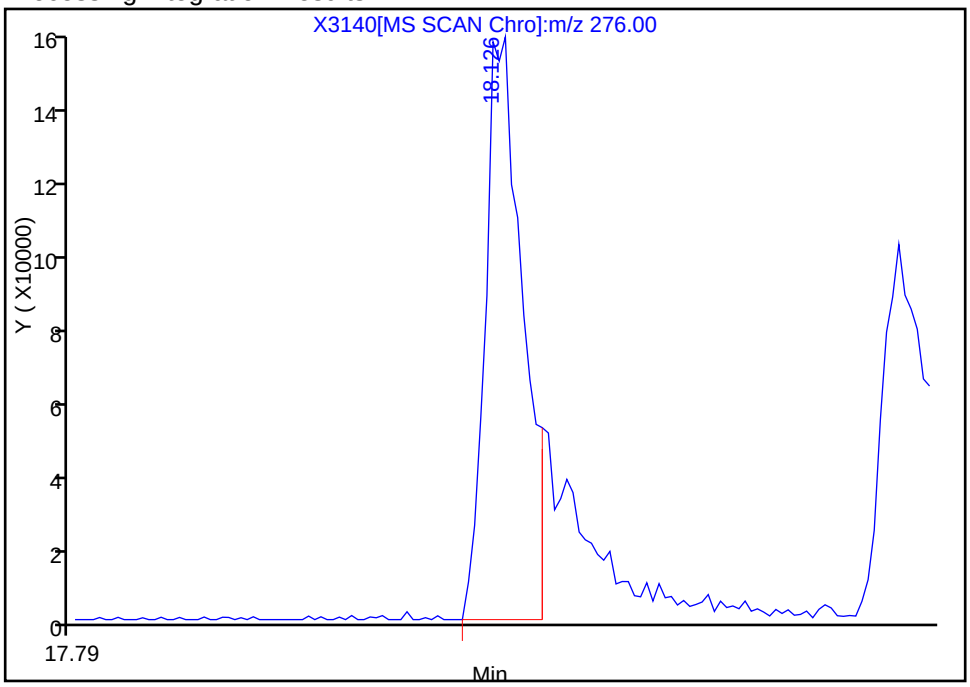
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3140.D		
Injection Date:	18-Dec-2012 15:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	11
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: 18.09

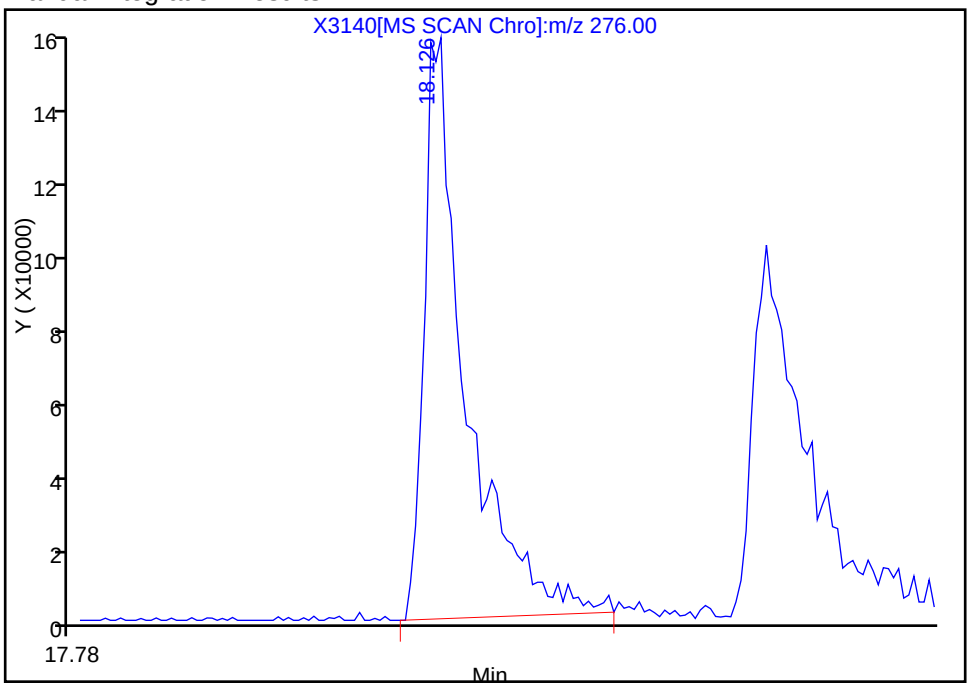
Processing Integration Results

RT: 18.13
Response: 323979
Amount: 1.501771



Manual Integration Results

RT: 18.13
Response: 429794
Amount: 1.992265



Reviewer: mckernar, 18-Dec-2012 16:19:10
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

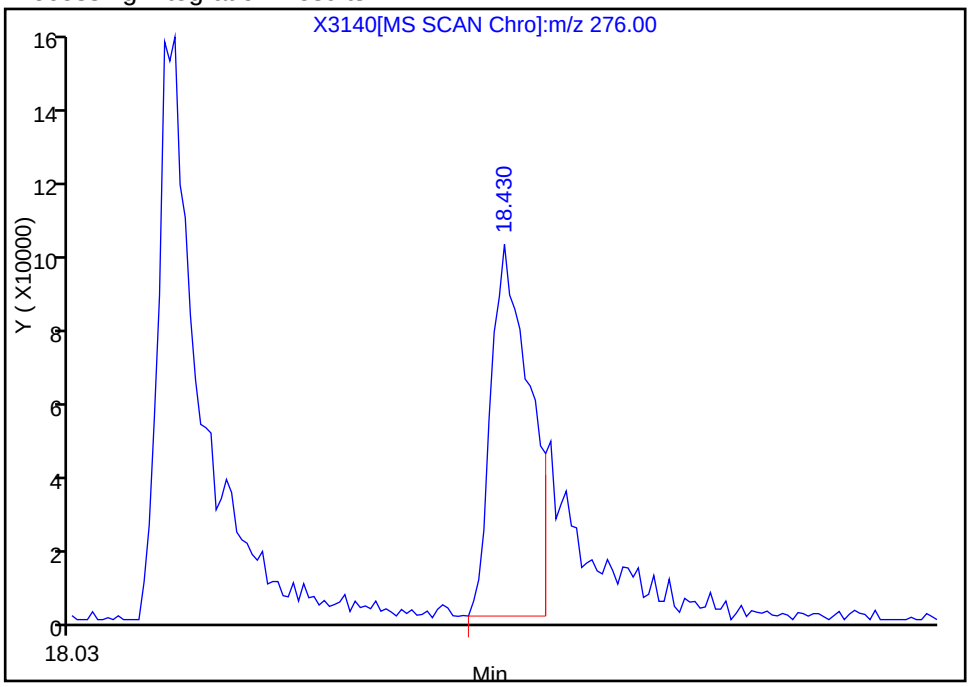
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3140.D		
Injection Date:	18-Dec-2012 15:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	11
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: 18.40

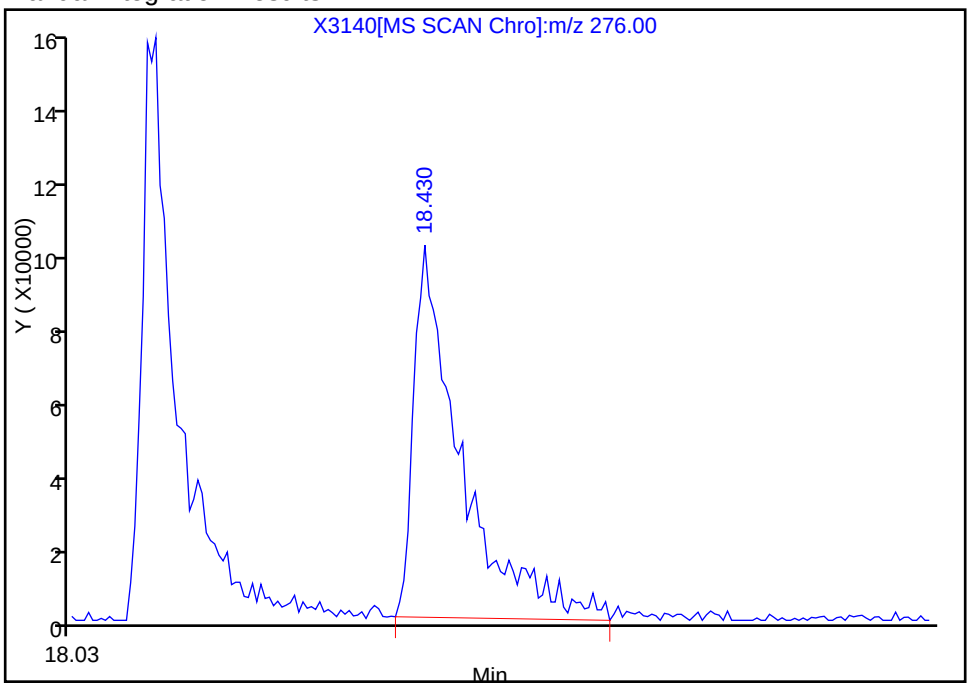
Processing Integration Results

RT: 18.43
Response: 253156
Amount: 1.466234



Manual Integration Results

RT: 18.43
Response: 379508
Amount: 2.198042



Reviewer: mckernar, 18-Dec-2012 16:19:10
Audit Action: Manually Integrated
Audit Reason: Assign Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-29598-1

SDG No.:

Lab Sample ID: CCVIS 480-96347/13 Calibration Date: 12/18/2012 16:53

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: X3142.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Lin1		0.5341		8360	8000	4.5	20.0
N-Nitrosodimethylamine	Ave	0.9135	0.9899		8670	8000	8.4	20.0
Pyridine	Ave	0.9276	1.010		8710	8000	8.9	20.0
Benzaldehyde	Ave	0.9800	1.109	0.0100	9060	8000	13.2	20.0
Aniline	Ave	1.831	1.977		8640	8000	8.0	20.0
Phenol	Ave	1.523	1.608	0.7000	8450	8000	5.6	20.0
Bis(2-chloroethyl)ether	Ave	1.199	1.284	0.6000	8560	8000	7.0	20.0
2-Chlorophenol	Ave	1.295	1.409	0.8000	8710	8000	8.8	20.0
1,3-Dichlorobenzene	Ave	1.606	1.546		7700	8000	-3.7	20.0
1,4-Dichlorobenzene	Ave	1.604	1.655		8250	8000	3.2	20.0
Benzyl alcohol	QuaF		0.4478		7760	8000	-3.0	20.0
1,2-Dichlorobenzene	Ave	1.496	1.529		8180	8000	2.2	20.0
2-Methylphenol	Ave	1.087	1.139	0.6000	8390	8000	4.8	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.949	2.043	0.0100		8000	4.8	20.0
Acetophenone	Ave	1.854	2.033	0.0100	8770	8000	9.6	20.0
N-Nitrosodi-n-propylamine	Ave	0.9313	1.025	0.0500	8810	8000	10.1	20.0
4-Methylphenol	Ave	1.101	1.123	0.6000	8160	8000	2.0	20.0
Hexachloroethane	Lin1		0.6517	0.3000	8190	8000	2.4	20.0
Nitrobenzene	Ave	0.3891	0.4293	0.1000	8830	8000	10.3	20.0
Isophorone	Ave	0.6400	0.6864	0.3000	8580	8000	7.2	20.0
2-Nitrophenol	Ave	0.1771	0.1923	0.0500	8690	8000	8.6	20.0
2,4-Dimethylphenol	Ave	0.3340	0.3364	0.1000	8060	8000	0.7	20.0
Bis(2-chloroethoxy)methane	Ave	0.3791	0.4297	0.2000	9070	8000	13.4	20.0
Benzoic acid	QuaF		0.2190		9790	8000	22.4*	20.0
2,4-Dichlorophenol	Ave	0.2718	0.2925	0.1000	8610	8000	7.6	20.0
1,2,4-Trichlorobenzene	Ave	0.3341	0.3384		8100	8000	1.3	20.0
Naphthalene	Ave	1.108	1.124	0.6000	8120	8000	1.5	20.0
4-Chloroaniline	Ave	0.4008	0.4556	0.0100	9090	8000	13.7	20.0
Hexachlorobutadiene	Ave	0.1826	0.1759	0.0100	7710	8000	-3.7	20.0
Caprolactam	Ave	0.0989	0.1034	0.0100	8360	8000	4.5	20.0
4-Chloro-3-methylphenol	Ave	0.3003	0.3387	0.2000	9020	8000	12.8	20.0
2-Methylnaphthalene	Ave	0.7764	0.8104	0.4000	8350	8000	4.4	20.0
1-Methylnaphthalene	Ave	0.7151	0.7647			8000	6.9	20.0
Hexachlorocyclopentadiene	QuaF		0.1947	0.0500	8420	8000	5.2	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.4691	0.4903	0.0100	8360	8000	4.5	20.0
2,4,6-Trichlorophenol	Ave	0.2887	0.3015	0.2000	8350	8000	4.4	20.0
2,4,5-Trichlorophenol	Ave	0.2793	0.2960	0.2000	8480	8000	6.0	20.0
1,1'-Biphenyl	Ave	1.446	1.550	0.0100	8580	8000	7.2	20.0
2-Chloronaphthalene	Lin1		1.118	0.8000	8000	8000	-0.0	20.0
Phenyl ether	Ave	0.7862	0.8104		8250	8000	3.1	20.0
2-Nitroaniline	Ave	0.3311	0.3844	0.0100	9290	8000	16.1	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-29598-1

SDG No.:

Lab Sample ID: CCVIS 480-96347/13 Calibration Date: 12/18/2012 16:53

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: X3142.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	1.361	0.0100	8410	8000	5.2	20.0
2,6-Dinitrotoluene	Ave	0.5865	0.6357	0.1000	8670	8000	8.4	20.0
Acenaphthylene	Ave	1.749	1.766	0.9000	8080	8000	1.0	20.0
3-Nitroaniline	Ave	0.2913	0.2931	0.0100	8050	8000	0.6	20.0
Acenaphthene	Ave	1.218	1.145	0.9000	7520	8000	-6.0	20.0
2,4-Dinitrophenol	QuaF		0.1153	0.0100	15700	16000	-1.7	20.0
Dibenzofuran	Ave	1.486	1.628	0.8000	8770	8000	9.6	20.0
2,4-Dinitrotoluene	Ave	0.3744	0.4209	0.2000	8990	8000	12.4	20.0
4-Nitrophenol	Ave	0.2503	0.2707	0.0500	17300	16000	8.2	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.2247	0.2131	0.0100	7590	8000	-5.2	20.0
Diethyl phthalate	Ave	1.417	1.449	0.0100	8180	8000	2.3	20.0
Fluorene	Ave	1.359	1.392	0.8000	8200	8000	2.5	20.0
4-Chlorophenyl phenyl ether	Ave	0.6017	0.6238	0.4000	8290	8000	3.7	20.0
4-Nitroaniline	Lin1		0.3235	0.0100	8060	8000	0.8	20.0
4,6-Dinitro-2-methylphenol	Lin1		0.2092	0.0100	15600	16000	-2.3	20.0
Diphenylamine	Ave	1.164	1.262		8680	8000	8.5	20.0
N-Nitrosodiphenylamine	Ave	1.163	1.262	0.0100	8680	8000	8.5	20.0
1,2-Diphenylhydrazine	Ave	0.7515	0.8572		9130	8000	14.1	20.0
Azobenzene	Ave	0.7500	0.8572		9140	8000	14.3	20.0
Benzophenone	Ave	1.189	1.215		8170	8000	2.2	20.0
4-Bromophenyl phenyl ether	Ave	0.1874	0.1996	0.1000	8520	8000	6.5	20.0
Hexachlorobenzene	Lin1		0.2207	0.1000	8940	8000	11.7	20.0
Atrazine	Ave	0.3761	0.3787	0.0100	16100	16000	0.7	20.0
Pentachloronitrobenzene	Lin1		0.1076		8170	8000	2.1	20.0
Pentachlorophenol	Lin1		0.0955	0.0500	15900	16000	-0.8	20.0
Phenanthrene	Ave	1.115	1.148	0.6000	8240	8000	3.0	20.0
Anthracene	Ave	1.135	1.179	0.6000	8310	8000	3.9	20.0
Carbazole	Ave	1.052	1.102	0.0100		8000	4.7	20.0
Di-n-butyl phthalate	Ave	1.220	1.310	0.0100	8590	8000	7.4	20.0
Fluoranthene	Ave	1.104	1.152	0.6000	8350	8000	4.4	20.0
Benzidine	Ave	0.5523	0.4867		7050	8000	-11.9	20.0
Pyrene	Ave	1.340	1.376	0.6000	8220	8000	2.7	20.0
Butyl benzyl phthalate	Ave	0.7409	0.7784	0.0100	8400	8000	5.1	20.0
3,3'-Dichlorobenzidine	Ave	0.4492	0.4950	0.0100	8810	8000	10.2	20.0
Bis(2-ethylhexyl) phthalate	Ave	1.020	1.072	0.0100	8410	8000	5.1	20.0
Benzo[a]anthracene	Ave	1.077	1.173	0.6000	8710	8000	8.9	20.0
Chrysene	Ave	1.222	1.127	0.6000	7380	8000	-7.8	20.0
Di-n-octyl phthalate	Ave	1.608	1.614	0.0100	8030	8000	0.3	20.0
Benzo[b]fluoranthene	Ave	1.161	1.223	0.7000	8430	8000	5.3	20.0
Benzo[k]fluoranthene	Ave	1.196	1.305	0.7000	8720	8000	9.1	20.0
Benzo[a]pyrene	Ave	1.123	1.103	0.7000	7860	8000	-1.8	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-29598-1

SDG No.:

Lab Sample ID: CCVIS 480-96347/13 Calibration Date: 12/18/2012 16:53

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: X3142.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	1.069	0.4000	8410	8000	5.1	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.198	1.274	0.5000	8500	8000	6.3	20.0
Benzo[g,h,i]perylene	Ave	1.000	1.019	0.4000	8150	8000	1.9	20.0
2-Fluorophenol	Ave	1.135	1.174		8280	8000	3.5	20.0
Phenol-d5	Ave	1.381	1.493		8650	8000	8.1	20.0
Nitrobenzene-d5	Ave	0.3749	0.4335		9250	8000	15.6	20.0
2-Fluorobiphenyl	Ave	1.255	1.305		8320	8000	4.0	20.0
2,4,6-Tribromophenol	Ave	0.0920	0.0979		8510	8000	6.4	20.0
p-Terphenyl-d14	Ave	0.9641	1.004		8330	8000	4.1	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3142.D
Lims ID: CCVIS Client ID:
Inject. Date: 18-Dec-2012 16:53:30 Dil. Factor: 1.0000
Sample Type: CCVIS
Sample ID: 480-0017654-013
Misc. Info.:
Operator: ANM Instrument ID: HP5973X
Injection Vol: 1.0 ul ALS Bottle#: 14
Lims Batch ID: 96347 Lims Sample ID: 13
Sublist: chrom-X-8270LL*sub20
Detector: MS SCAN

Method: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X-8270LL.m
Last Update: 09-Mar-2013 09:11:13 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: 18-Dec-2012 17:16:56

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.537	6.537	0.0	83	281408	5.00	
* 2 Naphthalene-d8	136	8.425	8.425	0.0	98	1040860	5.00	
* 3 Acenaphthene-d10	164	11.035	11.035	0.0	90	686800	5.00	
* 4 Phenanthrene-d10	188	13.052	13.052	0.0	96	1182347	5.00	
* 5 Chrysene-d12	240	15.720	15.720	0.0	86	992250	5.00	
* 6 Perylene-d12	264	17.004	17.004	0.0	94	973892	5.00	
$ 7 2-Fluorophenol	112	4.672	4.672	0.0	74	528689	8.28	
$ 8 Phenol-d5	99	6.061	6.061	0.0	83	672102	8.65	
$ 9 Nitrobenzene-d5	82	7.374	7.374	0.0	83	722011	9.25	
$ 10 2-Fluorobiphenyl	172	10.056	10.056	0.0	94	1434503	8.32	
$ 11 2,4,6-Tribromophenol	330	12.196	12.196	0.0	58	185119	8.51	
$ 12 p-Terphenyl-d14	244	14.740	14.740	0.0	95	1593742	8.33	
18 1,4-Dioxane	88	2.580	2.580	0.0	30	240480	8.36	M
19 N-Nitrosodimethylamine	42	2.918	2.918	0.0	63	445707	8.67	M
20 Pyridine	52	2.975	2.975	0.0	6	454798	8.71	M
21 Benzaldehyde	77	5.909	5.909	0.0	91	499473	9.06	
23 Aniline	93	6.071	6.071	0.0	82	890285	8.64	
22 Phenol	94	6.080	6.080	0.0	38	724175	8.45	
24 Bis(2-chloroethyl)ether	93	6.170	6.170	0.0	96	577906	8.56	
25 2-Chlorophenol	128	6.237	6.237	0.0	97	634459	8.71	
26 1,3-Dichlorobenzene	146	6.451	6.451	0.0	96	696219	7.70	
27 1,4-Dichlorobenzene	146	6.565	6.565	0.0	73	745119	8.25	
28 Benzyl alcohol	108	6.774	6.774	0.0	86	201637	7.76	
29 1,2-Dichlorobenzene	146	6.784	6.784	0.0	83	688304	8.18	
31 2-Methylphenol	108	6.965	6.965	0.0	75	513022	8.39	
32 2,2'-oxybis[1-chloropropane]	45	6.979	6.979	0.0	71	919999	8.39	M
33 Acetophenone	105	7.155	7.155	0.0	92	915292	8.77	
34 N-Nitrosodi-n-propylamine	70	7.164	7.164	0.0	84	461524	8.81	
36 4-Methylphenol	108	7.212	7.212	0.0	81	505465	8.16	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
37 Hexachloroethane	117	7.274	7.274	0.0	94	293438	8.19	
38 Nitrobenzene	77	7.402	7.402	0.0	78	714912	8.83	
40 Isophorone	82	7.764	7.764	0.0	74	1143053	8.58	
41 2-Nitrophenol	139	7.873	7.873	0.0	88	320246	8.69	
43 2,4-Dimethylphenol	107	7.987	7.987	0.0	87	560233	8.06	
45 Bis(2-chloroethoxy)methane	93	8.111	8.111	0.0	99	715638	9.07	
44 Benzoic acid	105	8.168	8.168	0.0	77	364694	9.79	M
47 2,4-Dichlorophenol	162	8.268	8.268	0.0	83	487142	8.61	
48 1,2,4-Trichlorobenzene	180	8.348	8.348	0.0	96	563558	8.10	
49 Naphthalene	128	8.458	8.458	0.0	93	1871541	8.12	
51 4-Chloroaniline	127	8.586	8.586	0.0	87	758691	9.09	
52 Hexachlorobutadiene	225	8.653	8.653	0.0	77	292908	7.71	
54 Caprolactam	113	9.114	9.114	0.0	79	172201	8.36	
55 4-Chloro-3-methylphenol	107	9.371	9.371	0.0	95	564086	9.02	M
56 2-Methylnaphthalene	142	9.495	9.495	0.0	76	1349688	8.35	
57 1-Methylnaphthalene	142	9.637	9.637	0.0	93	1273502	8.55	
58 Hexachlorocyclopentadiene	237	9.728	9.728	0.0	80	213968	8.42	
59 1,2,4,5-Tetrachlorobenzene	216	9.747	9.747	0.0	87	538791	8.36	
60 2,4,6-Trichlorophenol	196	9.951	9.951	0.0	96	331270	8.35	
61 2,4,5-Trichlorophenol	196	10.037	10.037	0.0	92	325241	8.48	M
62 1,1'-Biphenyl	154	10.198	10.198	0.0	99	1703121	8.58	
63 2-Chloronaphthalene	162	10.241	10.241	0.0	95	1228819	8.00	
64 Phenyl ether	170	10.360	10.360	0.0	91	890519	8.25	
65 2-Nitroaniline	65	10.417	10.417	0.0	80	422398	9.29	
66 1,4-Dinitrobenzene	75	10.641	10.641	0.0	76	249512	0	
67 Dimethyl phthalate	163	10.693	10.693	0.0	93	1495278	8.41	
68 2,6-Dinitrotoluene	165	10.783	10.783	0.0	91	698523	8.67	
69 Acenaphthylene	152	10.821	10.821	0.0	89	1940785	8.08	
70 3-Nitroaniline	138	11.045	11.045	0.0	93	322081	8.05	
71 Acenaphthene	153	11.083	11.083	0.0	89	1257907	7.52	
72 2,4-Dinitrophenol	184	11.211	11.211	0.0	84	253304	15.7	
73 Dibenzofuran	168	11.349	11.349	0.0	99	1789344	8.77	
74 2,4-Dinitrotoluene	165	11.387	11.387	0.0	97	462497	8.99	
75 4-Nitrophenol	109	11.421	11.421	0.0	53	594996	17.3	M
76 2,3,4,6-Tetrachlorophenol	232	11.563	11.563	0.0	84	234127	7.59	
78 Diethyl phthalate	149	11.744	11.744	0.0	92	1592396	8.18	
79 Fluorene	166	11.853	11.853	0.0	83	1529656	8.20	
80 4-Chlorophenyl phenyl ether	204	11.868	11.868	0.0	86	685494	8.29	
81 4-Nitroaniline	138	11.953	11.953	0.0	86	355498	8.06	
82 4,6-Dinitro-2-methylphenol	198	11.982	11.982	0.0	61	459703	15.6	
84 Diphenylamine	169	12.048	12.048	0.0	98	2387512	8.68	
83 N-Nitrosodiphenylamine	169	12.048	12.048	0.0	98	2387512	8.68	
16 1,2-Diphenylhydrazine	77	12.086	12.086	0.0	96	1621662	9.13	
85 Azobenzene	77	12.086	12.086	0.0	94	1621662	9.14	
86 Benzophenone	105	12.110	12.110	0.0	98	1334815	8.17	
89 4-Bromophenyl phenyl ether	248	12.519	12.519	0.0	83	377500	8.52	
91 Hexachlorobenzene	284	12.581	12.581	0.0	77	417578	8.94	
92 Simazine	201	12.738	12.738	0.0	80	220546	0	
93 Atrazine	200	12.771	12.771	0.0	86	832217	16.1	
95 Pentachloronitrobenzene	237	12.852	12.852	0.0	79	203482	8.17	
94 Pentachlorophenol	266	12.852	12.852	0.0	68	361257	15.9	
97 Phenanthrene	178	13.080	13.080	0.0	95	2170840	8.24	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
98 Anthracene	178	13.142	13.142	0.0	95	2230909	8.31	
99 Carbazole	167	13.351	13.351	0.0	98	2084894	8.38	
101 Alachlor	160	13.504	13.504	0.0	92	440018	0	
102 Di-n-butyl phthalate	149	13.741	13.741	0.0	96	2477429	8.59	
104 Fluoranthene	202	14.364	14.364	0.0	97	2179064	8.35	
105 Benzidine	184	14.540	14.540	0.0	99	772635	7.05	
106 Pyrene	202	14.588	14.588	0.0	97	2184813	8.22	
107 Famphur	218	15.154	15.154	0.0	81	831924	0	
108 Butyl benzyl phthalate	149	15.196	15.196	0.0	92	1235762	8.40	
109 3,3'-Dichlorobenzidine	252	15.691	15.691	0.0	83	785798	8.81	
110 Bis(2-ethylhexyl) phthalate	149	15.696	15.696	0.0	96	1701398	8.41	
111 Benzo[a]anthracene	228	15.705	15.705	0.0	99	1861722	8.71	
112 Chrysene	228	15.743	15.743	0.0	91	1788571	7.38	
113 Di-n-octyl phthalate	149	16.238	16.238	0.0	97	2561760	8.03	
114 Benzo[b]fluoranthene	252	16.647	16.647	0.0	94	1905817	8.43	
115 Benzo[k]fluoranthene	252	16.666	16.666	0.0	98	2033362	8.72	
116 Benzo[a]pyrene	252	16.951	16.951	0.0	72	1719007	7.86	
117 Indeno[1,2,3-cd]pyrene	276	18.093	18.093	0.0	94	1984711	8.50	
118 Dibenz(a,h)anthracene	278	18.093	18.093	0.0	67	1665760	8.41	
119 Benzo[g,h,i]perylene	276	18.411	18.411	0.0	93	1587746	8.15	
S 121 3-Methylphenol	1		0.000					

QC Flag Legend

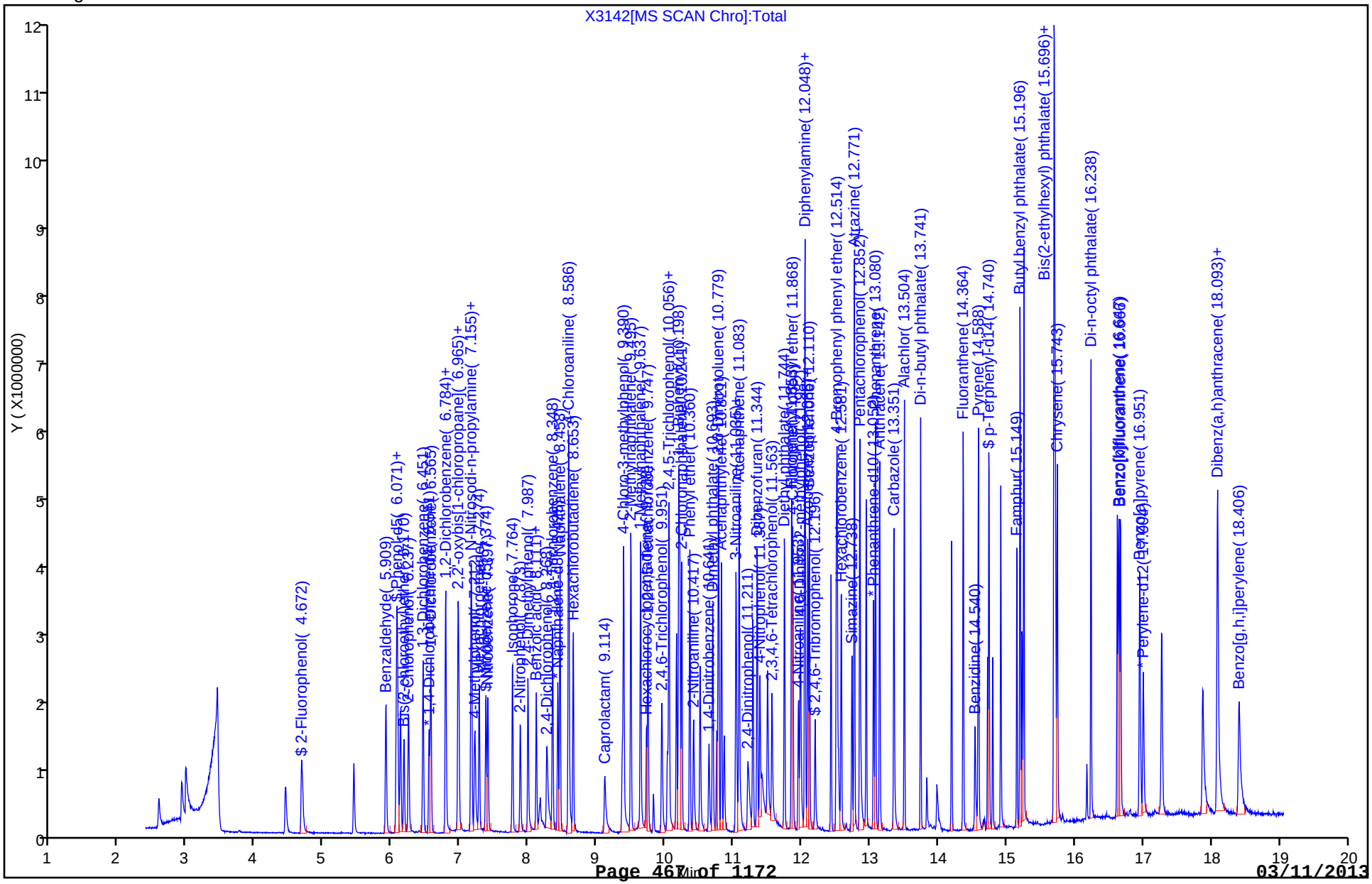
Review Flags
M - Manually Integrated

Report Date: 09-Mar-2013 09:11:13 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3142.D		
Injection Date:	18-Dec-2012 16:53:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	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

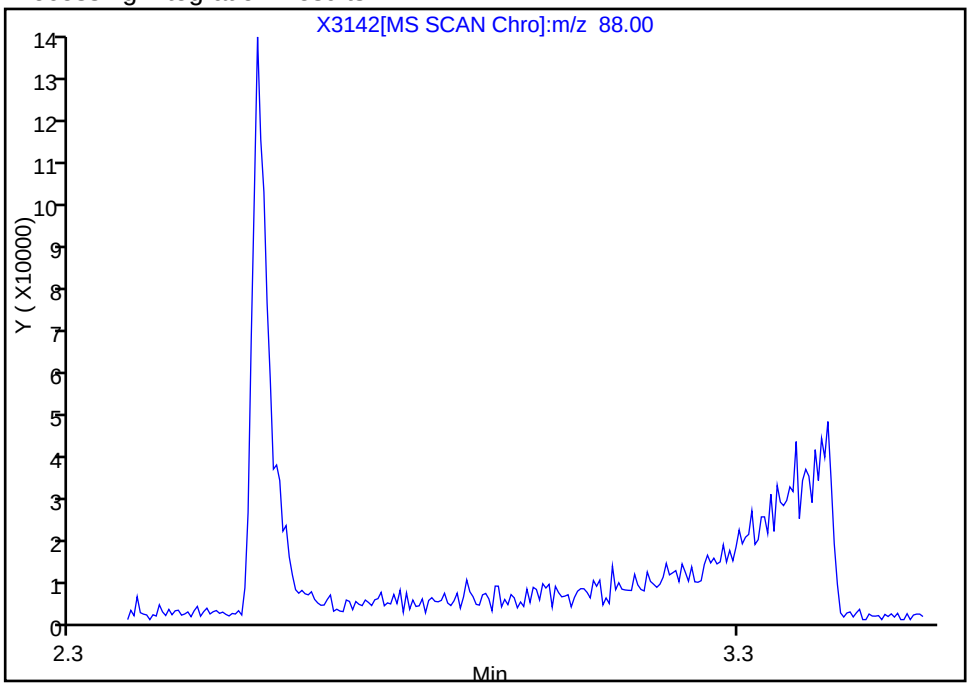
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3142.D		
Injection Date:	18-Dec-2012 16:53:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	13
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: 2.58

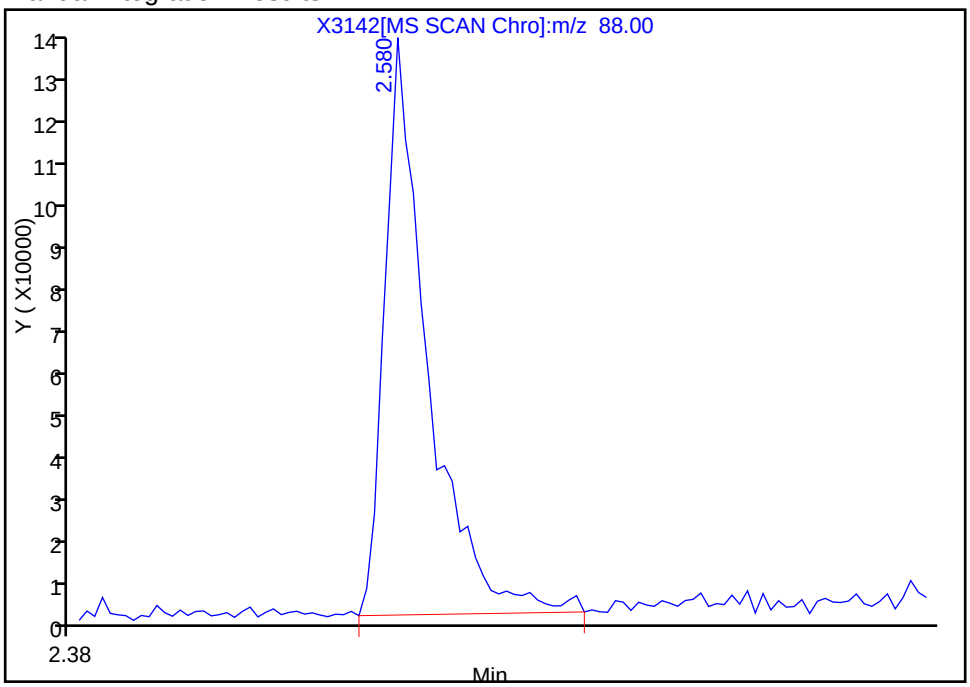
Processing Integration Results

Not Detected
Expected RT: 2.58



Manual Integration Results

RT: 2.58
Response: 240480
Amount: 8.357640



Reviewer: mckernar, 18-Dec-2012 17:16:56
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

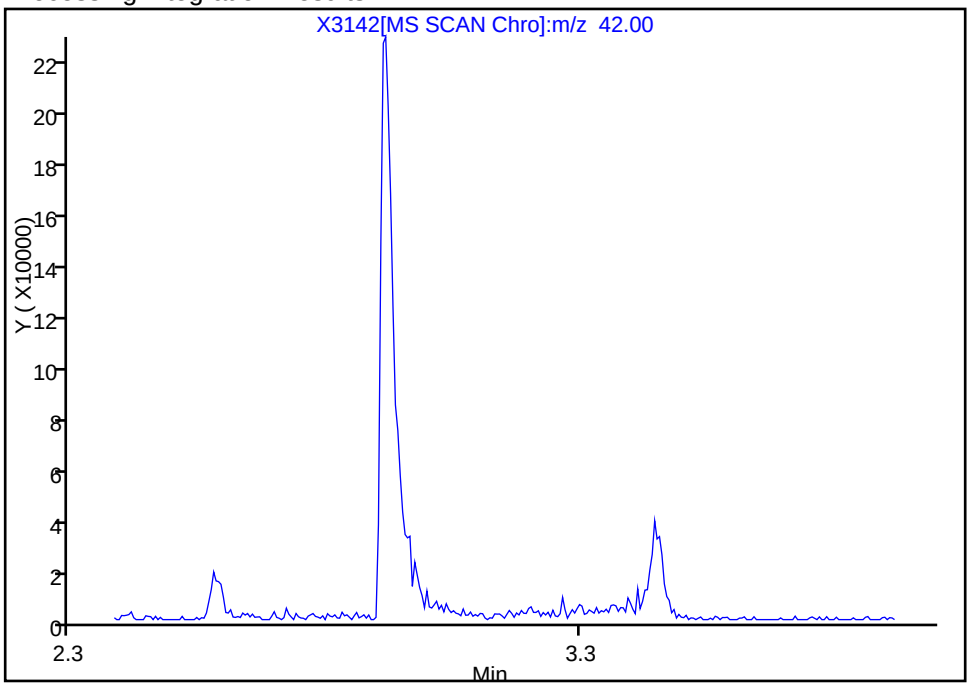
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3142.D		
Injection Date:	18-Dec-2012 16:53:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	13
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: 2.92

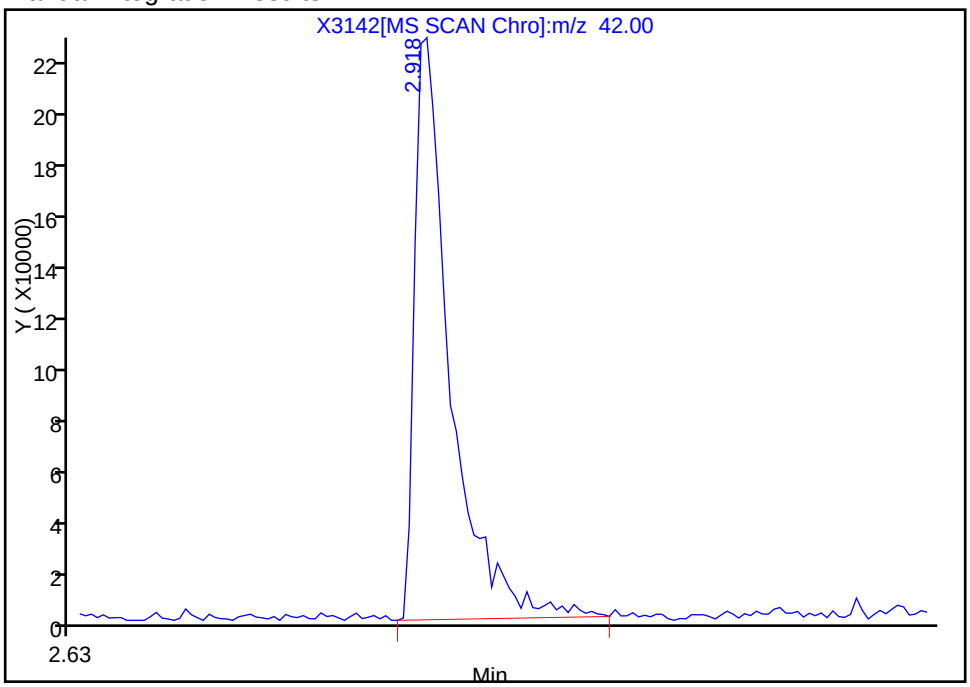
Processing Integration Results

Not Detected
Expected RT: 2.92



Manual Integration Results

RT: 2.92
Response: 445707
Amount: 8.669227



Reviewer: mckernar, 18-Dec-2012 17:16:56
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

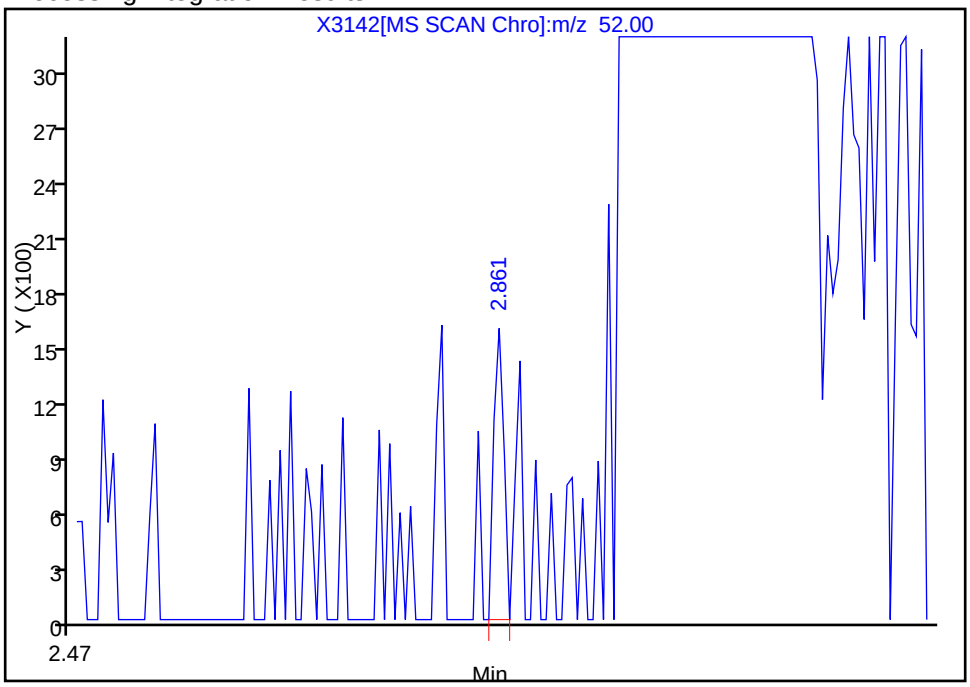
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3142.D		
Injection Date:	18-Dec-2012 16:53:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	13
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: 2.97

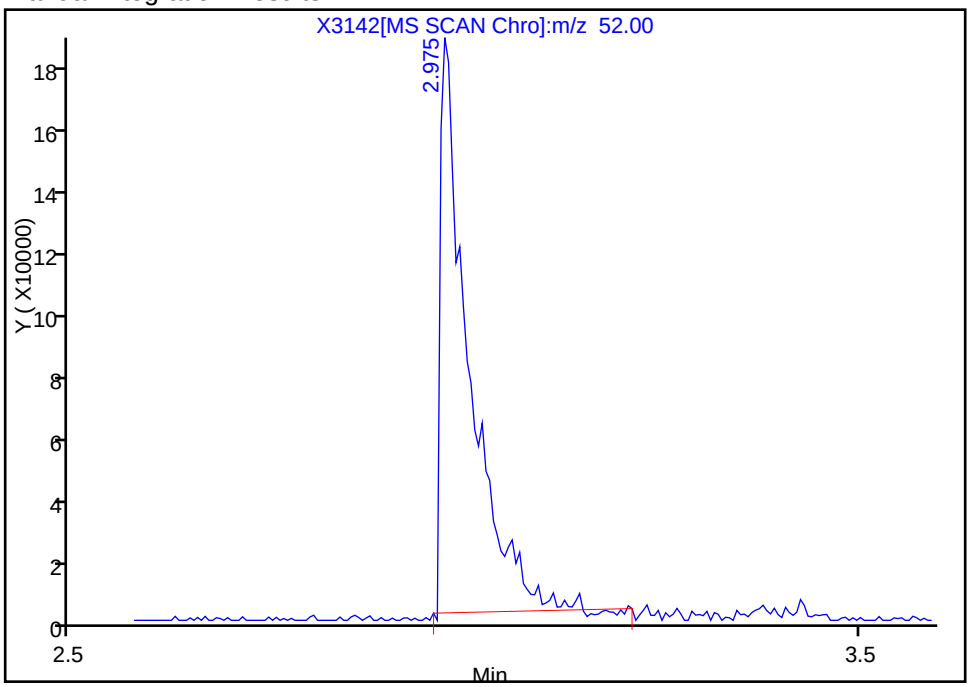
Processing Integration Results

RT: 2.86
Response: 1020
Amount: 0.019539



Manual Integration Results

RT: 2.97
Response: 454798
Amount: 8.711890



Reviewer: mckernar, 18-Dec-2012 17:16:56
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

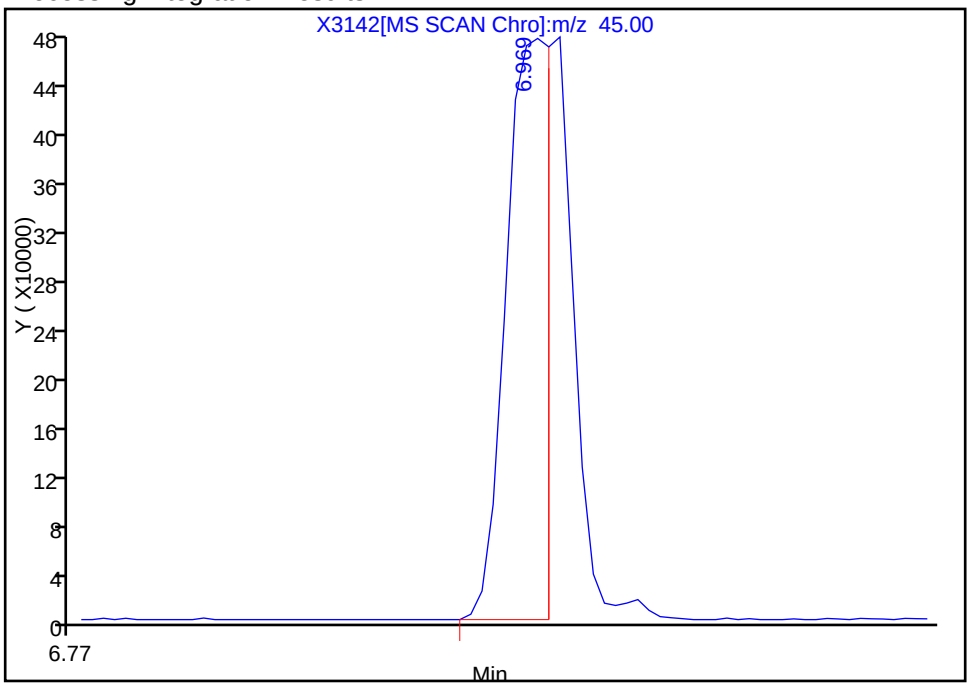
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3142.D		
Injection Date:	18-Dec-2012 16:53:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	13
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: 6.98

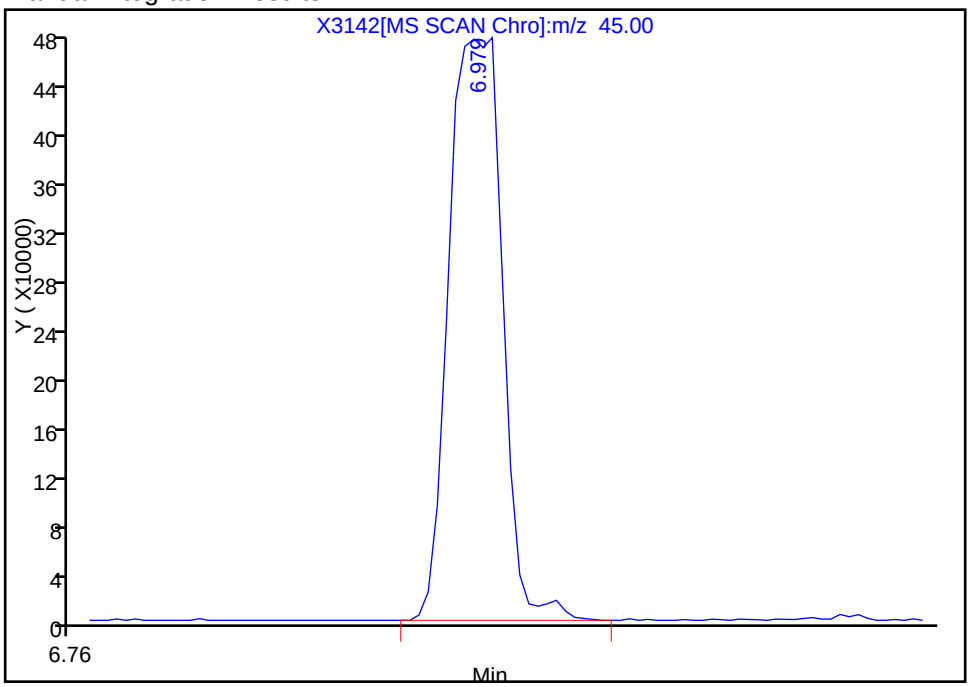
Processing Integration Results

RT: 6.97
Response: 632380
Amount: 5.764531



Manual Integration Results

RT: 6.98
Response: 919999
Amount: 8.386355



Reviewer: mckernar, 18-Dec-2012 17:16:56
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 09-Mar-2013 09:11:13 Chrom Revision: 2.0 01-Feb-2013 10:03:10

Manual Integration/User Assign Peak Report

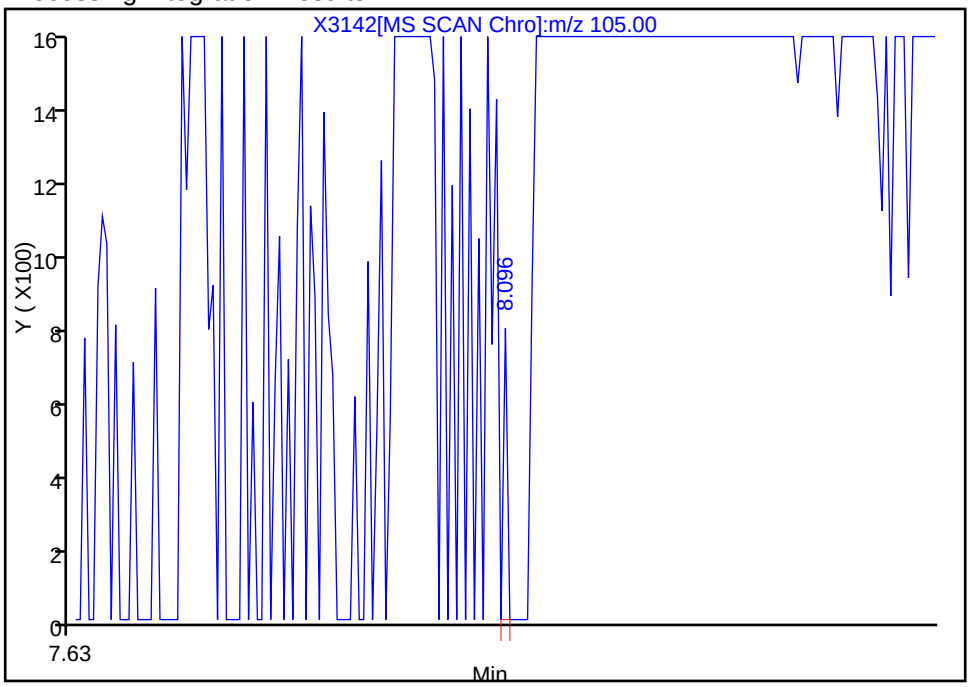
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3142.D		
Injection Date:	18-Dec-2012 16:53:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	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: 8.17

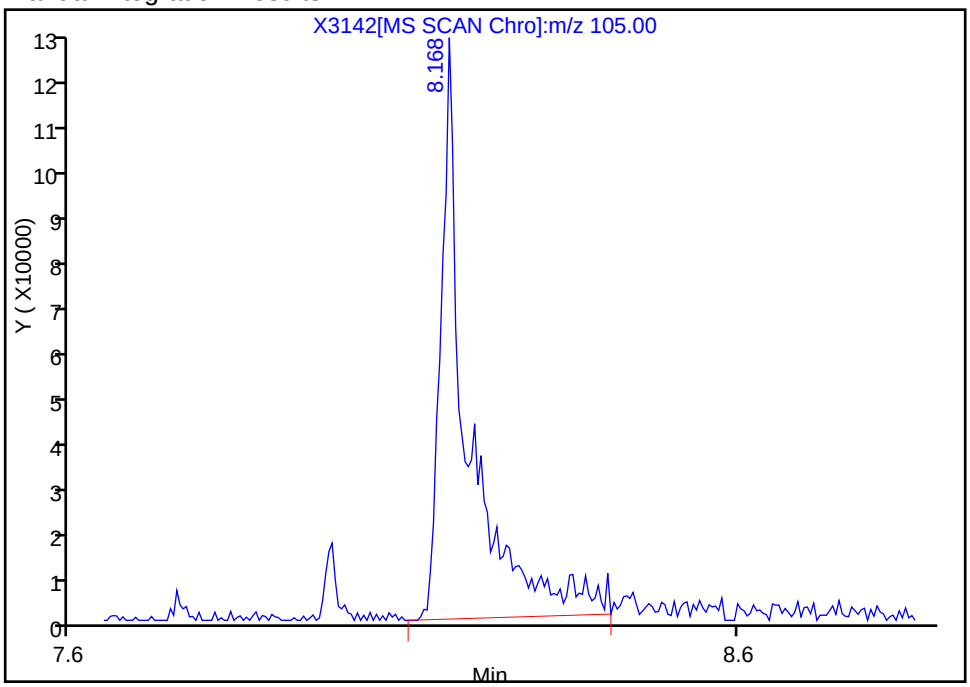
Processing Integration Results

RT: 8.10
Response: 217
Amount: 0.008007



Manual Integration Results

RT: 8.17
Response: 364694
Amount: 9.791367



Reviewer: mckernar, 18-Dec-2012 17:16:56
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

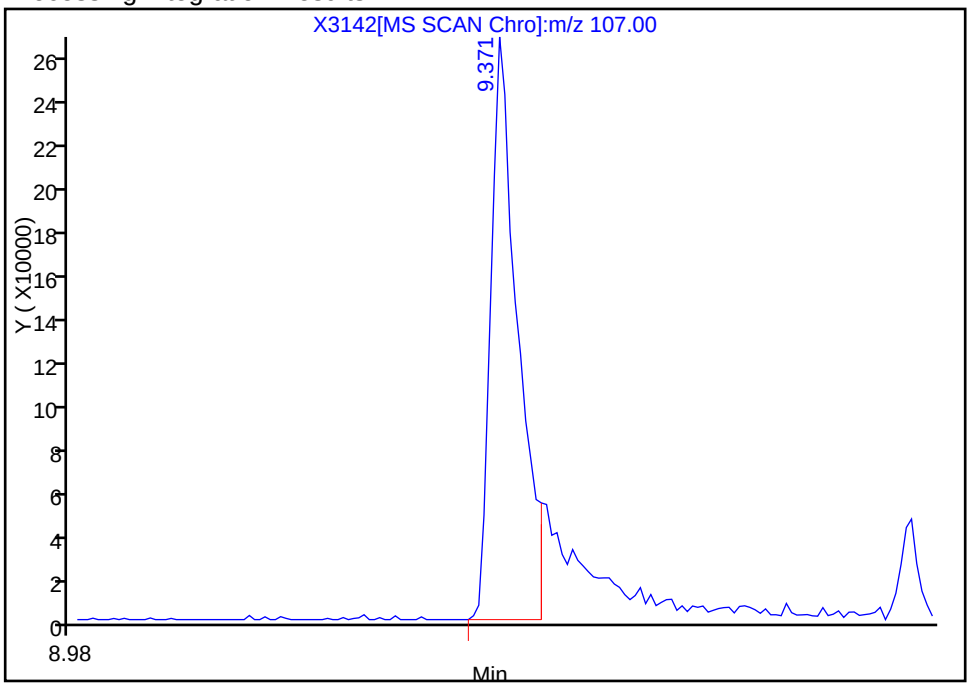
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3142.D		
Injection Date:	18-Dec-2012 16:53:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	13
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: 9.37

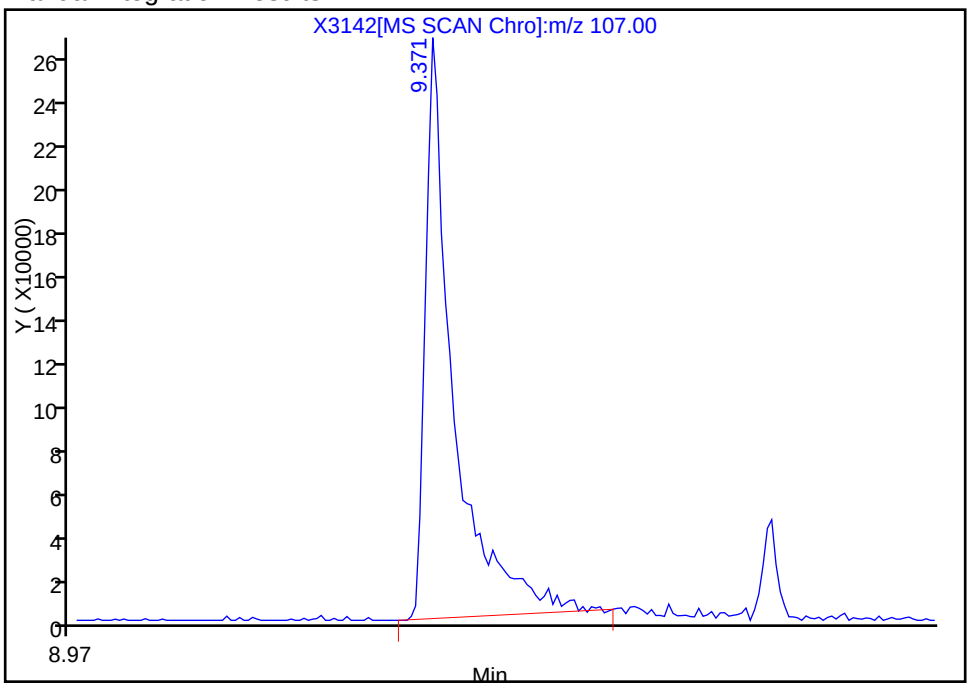
Processing Integration Results

RT: 9.37
Response: 448849
Amount: 7.179971



Manual Integration Results

RT: 9.37
Response: 564086
Amount: 9.023349



Reviewer: mckernar, 18-Dec-2012 17:16:56
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

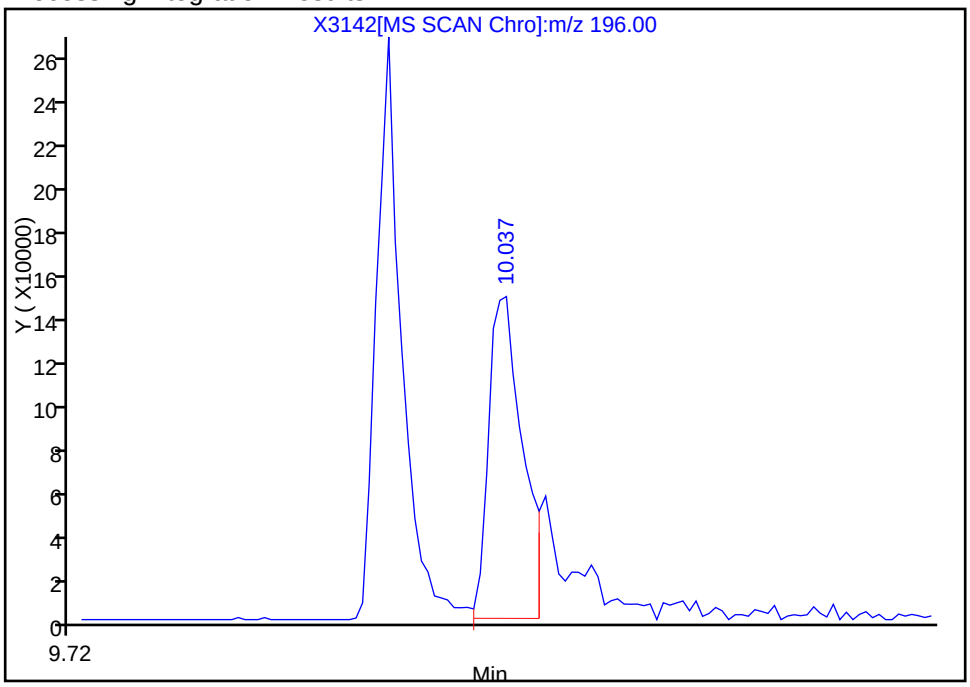
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3142.D		
Injection Date:	18-Dec-2012 16:53:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	13
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: 10.04

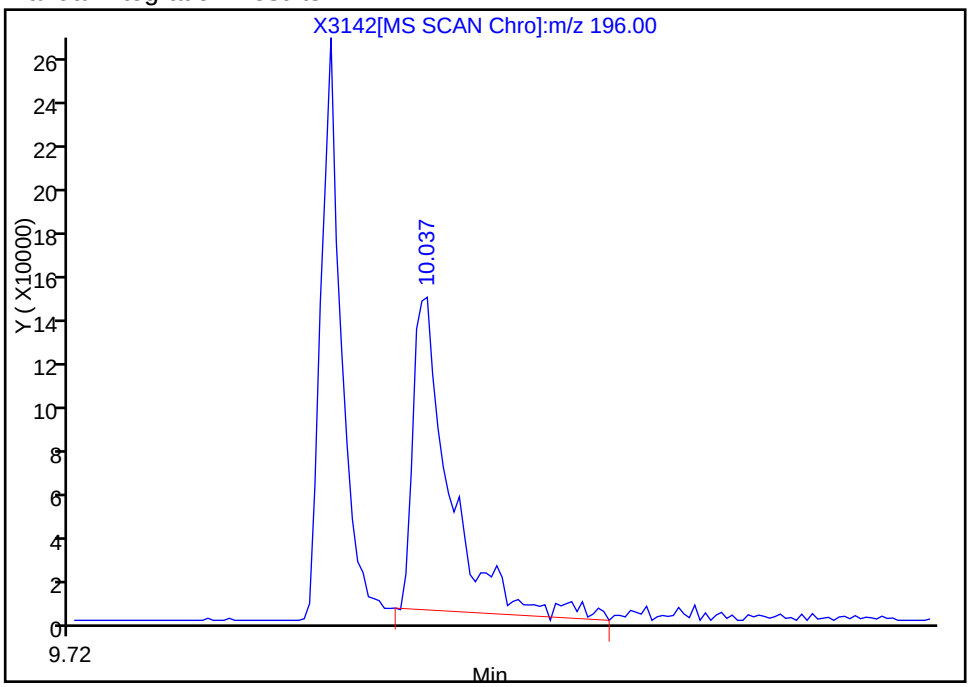
Processing Integration Results

RT: 10.04
Response: 253039
Amount: 6.595419



Manual Integration Results

RT: 10.04
Response: 325241
Amount: 8.477352



Reviewer: mckernar, 18-Dec-2012 17:16:56
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

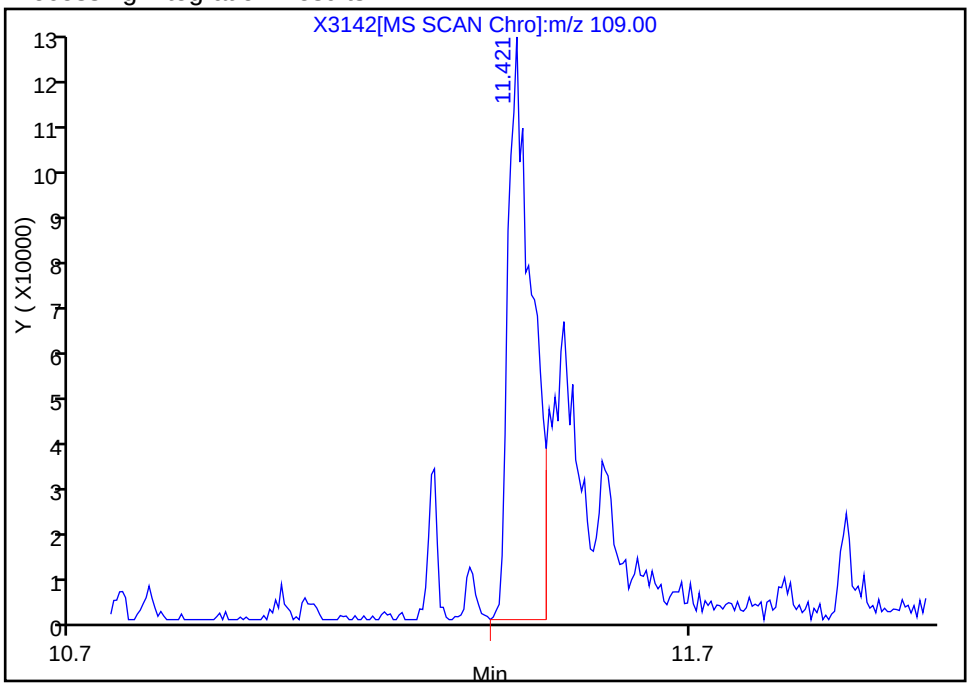
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3142.D		
Injection Date:	18-Dec-2012 16:53:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	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: 11.42

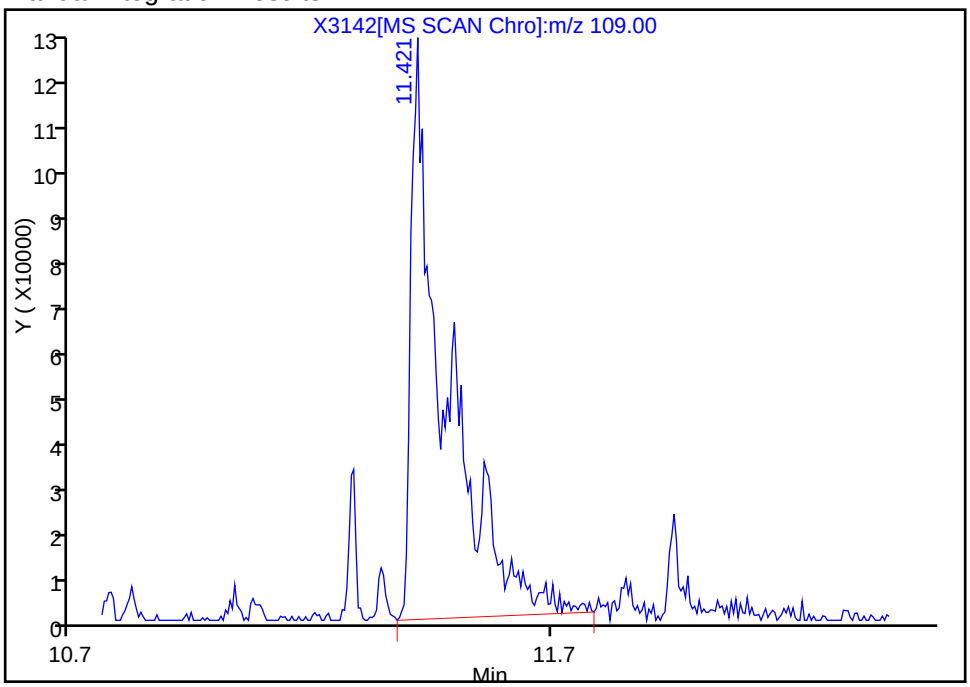
Processing Integration Results

RT: 11.42
Response: 322868
Amount: 9.392153



Manual Integration Results

RT: 11.42
Response: 594996
Amount: 17.308291



Reviewer: mckernar, 18-Dec-2012 17:16:56
Audit Action: Manually Integrated
Audit Reason: Assign 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

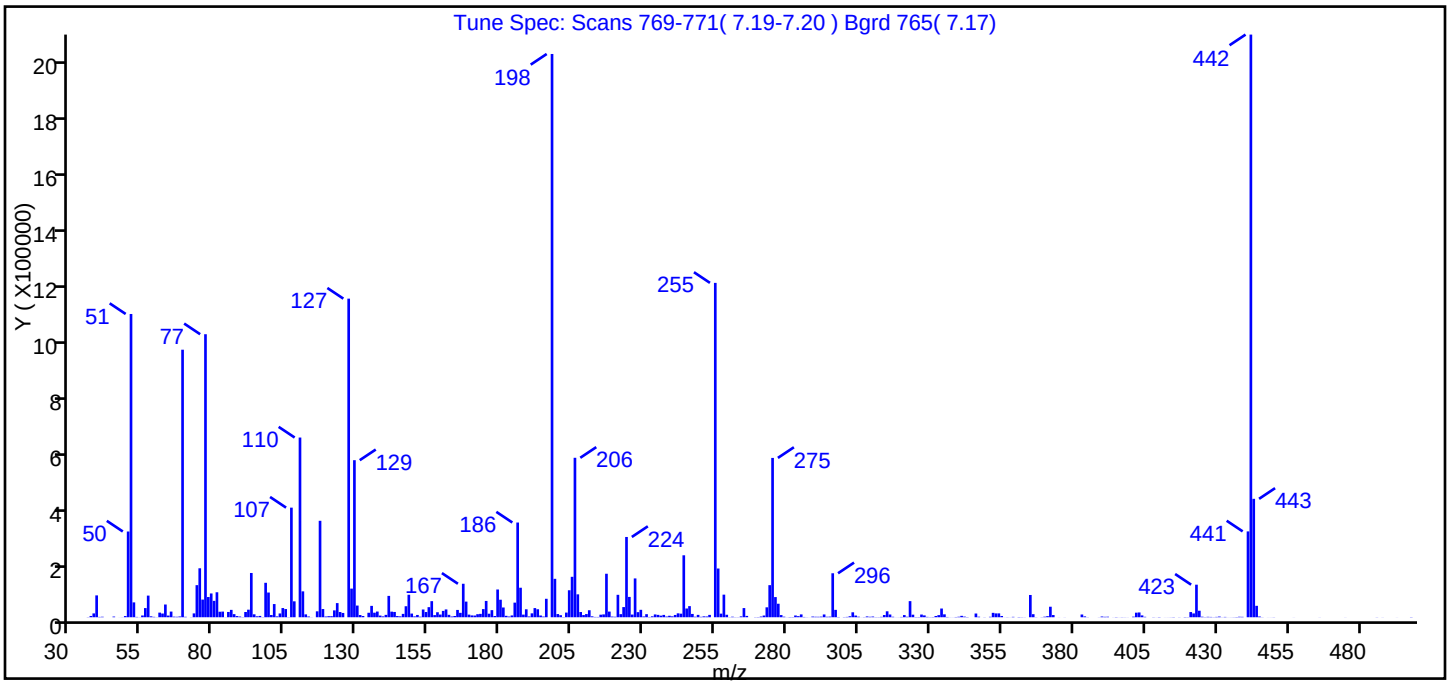
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
30 Pentachlorophenol_T	266	6.803	6.803	0.0	80	1439409	0	
35 DFTPP								
39 4,4'-DDE	246		7.713					
46 Benzidine_T	184	8.171	8.171	0.0	93	8089248	0	
50 4,4'-DDD	235	8.604	8.604	0.0	36	21681	0	
53 4,4'-DDT	235	8.839	8.839	0.0	87	3937389	0	

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

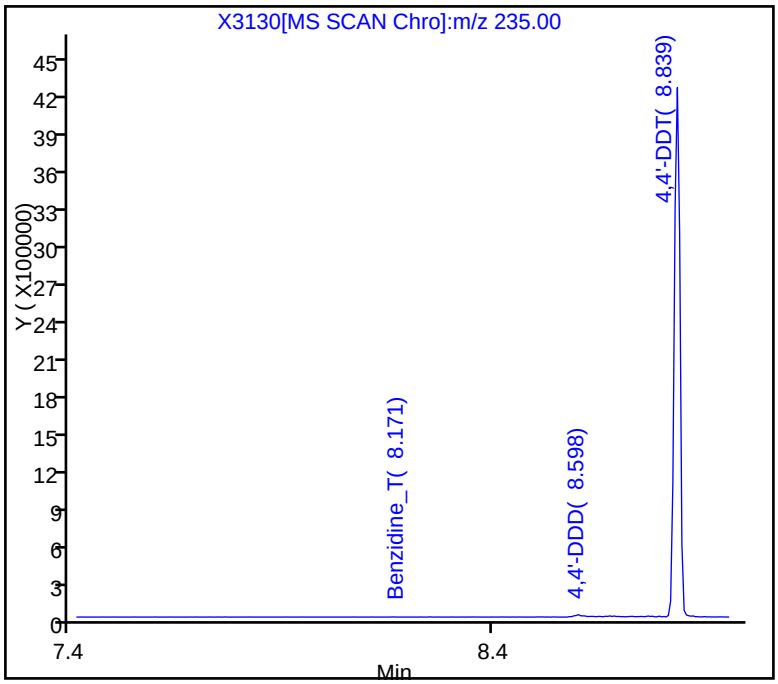
m/z	Y	m/z	Y	m/z	Y	m/z	Y
108.00	56360	209.00	7797	309.00	1700	429.00	544
110.00	635968	210.00	11285	310.00	2578	430.00	1308
111.00	91656	211.00	24832	311.00	609	431.00	2439
112.00	10233	212.00	3280	312.00	630	432.00	365
113.00	2786	213.00	1136	313.00	1487	433.00	1204
114.00	341	214.00	1108	314.00	7896	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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-29598-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 480-95170/1-A
Matrix: Solid
Lab File ID: X3143.D
Analysis Method: 8270D
Date Collected:
Extract. Method: 3546
Date Extracted: 12/11/2012 08:50
Sample wt/vol: 000030.8(g)
Date Analyzed: 12/18/2012 17:19
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.: 96347
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	ND		32	9.7
95-50-1	1,2-Dichlorobenzene	ND		32	9.7
541-73-1	1,3-Dichlorobenzene	ND		32	9.7
100-52-7	Benzaldehyde	ND		32	9.7
106-46-7	1,4-Dichlorobenzene	ND		32	9.7
108-60-1	2,2'-oxybis[1-chloropropane]	ND		32	9.7
95-95-4	2,4,5-Trichlorophenol	ND		32	11
88-06-2	2,4,6-Trichlorophenol	ND		32	14
100-51-6	Benzyl alcohol	ND		65	9.7
120-83-2	2,4-Dichlorophenol	ND		32	9.7
105-67-9	2,4-Dimethylphenol	ND		32	9.7
51-28-5	2,4-Dinitrophenol	ND		32	26
121-14-2	2,4-Dinitrotoluene	ND		32	9.7
100-01-6	4-Nitroaniline	ND		160	27
606-20-2	2,6-Dinitrotoluene	ND		32	27
91-58-7	2-Chloronaphthalene	ND		32	9.7
95-57-8	2-Chlorophenol	ND		32	9.7
86-30-6	N-Nitrosodiphenylamine	ND		32	9.7
91-57-6	2-Methylnaphthalene	ND		32	9.7
95-48-7	2-Methylphenol	ND		32	9.7
88-75-5	2-Nitrophenol	ND		32	13
15831-10-4	3 & 4 Methylphenol	ND		32	9.7
91-94-1	3,3'-Dichlorobenzidine	ND		65	12
88-74-4	2-Nitroaniline	ND		160	41
101-55-3	4-Bromophenyl phenyl ether	ND		32	9.7
77-47-4	Hexachlorocyclopentadiene	ND		65	9.7
106-47-8	4-Chloroaniline	ND		65	29
100-02-7	4-Nitrophenol	ND		160	14
83-32-9	Acenaphthene	ND		32	9.7
534-52-1	4,6-Dinitro-2-methylphenol	ND		160	31
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		32	9.7
208-96-8	Acenaphthylene	ND		32	9.7
98-86-2	Acetophenone	ND		32	9.7
62-53-3	Aniline	ND		32	9.7

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-29598-1
SDG No.:
Client Sample ID: | Lab Sample ID: MB 480-95170/1-A
Matrix: Solid | Lab File ID: X3143.D
Analysis Method: 8270D | Date Collected:
Extract. Method: 3546 | Date Extracted: 12/11/2012 08:50
Sample wt/vol: 000030.8(g) | Date Analyzed: 12/18/2012 17:19
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.: 96347 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-12-7	Anthracene	ND		32	9.7
1912-24-9	Atrazine	ND		32	9.7
103-33-3	Azobenzene	ND		32	9.7
56-55-3	Benzo[a]anthracene	ND		32	9.7
50-32-8	Benzo[a]pyrene	ND		32	9.7
205-99-2	Benzo[b]fluoranthene	ND		32	9.7
191-24-2	Benzo[g,h,i]perylene	ND		32	9.7
105-60-2	Caprolactam	ND		32	9.7
99-09-2	3-Nitroaniline	ND		160	9.7
207-08-9	Benzo[k]fluoranthene	ND		32	17
111-91-1	Bis(2-chloroethoxy)methane	ND		32	9.7
92-52-4	1,1'-Biphenyl	ND		32	9.7
111-44-4	Bis(2-chloroethyl)ether	ND		32	9.7
117-81-7	Bis(2-ethylhexyl) phthalate	ND		160	65
85-68-7	Butyl benzyl phthalate	ND		32	9.7
218-01-9	Chrysene	ND		32	9.7
621-64-7	N-Nitrosodi-n-propylamine	ND		32	9.7
65-85-0	Benzoic acid	ND		160	15
53-70-3	Dibenz(a,h)anthracene	ND		32	9.7
132-64-9	Dibenzofuran	ND		32	9.7
84-66-2	Diethyl phthalate	ND		32	11
131-11-3	Dimethyl phthalate	ND		32	9.7
84-74-2	Di-n-butyl phthalate	ND		160	49
117-84-0	Di-n-octyl phthalate	ND		32	9.7
101-84-8	Phenyl ether	ND		32	9.7
58-90-2	2,3,4,6-Tetrachlorophenol	ND		32	9.7
206-44-0	Fluoranthene	ND		32	9.7
59-50-7	4-Chloro-3-methylphenol	ND		65	9.7
86-73-7	Fluorene	ND		32	9.7
7005-72-3	4-Chlorophenyl phenyl ether	ND		32	9.7
118-74-1	Hexachlorobenzene	ND		32	9.7
87-68-3	Hexachlorobutadiene	ND		32	9.7
67-72-1	Hexachloroethane	ND		32	9.7
193-39-5	Indeno[1,2,3-cd]pyrene	ND		32	9.7

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-29598-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 480-95170/1-A
Matrix: Solid
Lab File ID: X3143.D
Analysis Method: 8270D
Date Collected:
Extract. Method: 3546
Date Extracted: 12/11/2012 08:50
Sample wt/vol: 000030.8(g)
Date Analyzed: 12/18/2012 17:19
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.: 96347
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
78-59-1	Isophorone	ND		32	9.7
91-20-3	Naphthalene	ND		32	9.7
98-95-3	Nitrobenzene	ND		32	9.7
87-86-5	Pentachlorophenol	ND		32	9.7
85-01-8	Phenanthrene	ND		32	9.7
119-61-9	Benzophenone	ND		32	9.7
108-95-2	Phenol	ND		32	9.7
129-00-0	Pyrene	ND		32	9.7
62-75-9	N-Nitrosodimethylamine	ND		32	9.7
86-74-8	Carbazole	ND		32	9.7
90-12-0	1-Methylnaphthalene	ND		32	9.7
106-44-5	4-Methylphenol	ND		32	9.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	73		30-130
367-12-4	2-Fluorophenol	84		30-130
4165-60-0	Nitrobenzene-d5	68		30-130
4165-62-2	Phenol-d5	93		30-130
321-60-8	2-Fluorobiphenyl	76		30-130
1718-51-0	p-Terphenyl-d14	105		30-130

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

Lab Name: TestAmerica Buffalo
Job No.: 480-29598-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 480-95170/1-A
Matrix: Solid
Lab File ID: X3143.D
Analysis Method: 8270D
Date Collected:
Extract. Method: 3546
Date Extracted: 12/11/2012 08:50
Sample wt/vol: 000030.8(g)
Date Analyzed: 12/18/2012 17:19
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.: 96347
Units: ug/Kg
Number TICs Found: 9
TIC Result Total: 12520.9

CAS NO.	COMPOUND NAME	RT	RESULT	Q
141-79-7	3-Penten-2-one, 4-methyl-	3.55	62.0	T J N
4161-60-8	2-Pentanone, 4-hydroxy-	3.85	286	T J N
123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	4.24	11000	T J N
108-38-3	Benzene, 1,3-dimethyl-	4.65	601	T J N
53951-43-2	1,3-Dioxolane-2-methanol, 2,4-dimethyl-	5.25	49.9	T J N
124-18-5	Decane	6.34	25.3	T J N
55429-13-5	Benzeneethanamine, N-[(pentafluorophenyl	7.78	22.7	T J N
31158-91-5	Hexadecanoic acid, 1,1-dimethylethyl est	14.63	198	T J N
123-95-5	Octadecanoic acid, butyl ester	15.27	276	T J N

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3143.D
Lims ID: MB 480-95170/1-A Client ID:
Inject. Date: 18-Dec-2012 17:19:30 Dil. Factor: 1.0000
Sample Type: MB
Sample ID: 480-0017654-014
Misc. Info.:
Operator: ANM Instrument ID: HP5973X
Injection Vol: 1.0 ul ALS Bottle#: 15
Lims Batch ID: 96347 Lims Sample ID: 14
Detector: MS SCAN

Method: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X-8270LL.m
Last Update: 09-Mar-2013 09:11:13 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: WilkesD Date: 07-Mar-2013 08:02:51

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.560	6.537	0.023	82	225985	5.00	
* 2 Naphthalene-d8	136	8.463	8.425	0.038	98	809629	5.00	
* 3 Acenaphthene-d10	164	11.107	11.035	0.072	84	498061	5.00	
* 4 Phenanthrene-d10	188	13.128	13.052	0.076	96	798311	5.00	
* 5 Chrysene-d12	240	15.753	15.720	0.033	97	677131	5.00	
* 6 Perylene-d12	264	17.027	17.004	0.023	96	490661	5.00	
$ 7 2-Fluorophenol	112	4.687	4.672	0.015	53	85782	1.67	
$ 8 Phenol-d5	99	6.142	6.061	0.081	77	116246	1.86	M
$ 9 Nitrobenzene-d5	82	7.412	7.374	0.038	81	82877	1.37	
$ 10 2-Fluorobiphenyl	172	10.132	10.056	0.076	88	190936	1.53	
$ 11 2,4,6-Tribromophenol	330	12.357	12.196	0.161	0	21366	1.45	M
$ 12 p-Terphenyl-d14	244	14.797	14.740	0.057	93	275020	2.11	
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		2.580					
19 N-Nitrosodimethylamine	42		2.918					1
20 Pyridine	52		2.975					
21 Benzaldehyde	77		5.909					
23 Aniline	93		6.071					
22 Phenol	94		6.080					9
24 Bis(2-chloroethyl)ether	93		6.170					149
25 2-Chlorophenol	128		6.237					149
26 1,3-Dichlorobenzene	146		6.451					
27 1,4-Dichlorobenzene	146		6.565					
28 Benzyl alcohol	108		6.774					149
29 1,2-Dichlorobenzene	146		6.784					
30 Pentachlorophenol_T	266		6.803					9
31 2-Methylphenol	108		6.965					9

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
32 2,2'-oxybis[1-chloropropane]	45		6.979					
33 Acetophenone	105		7.155					
34 N-Nitrosodi-n-propylamine	70		7.164					149
36 4-Methylphenol	108		7.212					9
37 Hexachloroethane	117		7.274					1
38 Nitrobenzene	77		7.402					
39 4,4'-DDE	246		7.713					
40 Isophorone	82		7.764					
41 2-Nitrophenol	139		7.873					
43 2,4-Dimethylphenol	107		7.987					9
42 o,o',o''-Triethylphosphorothioat	198		8.055					
45 Bis(2-chloroethoxy)methane	93		8.111					
44 Benzoic acid	105		8.168					
46 Benzidine_T	184		8.171					9
47 2,4-Dichlorophenol	162		8.268					9
48 1,2,4-Trichlorobenzene	180		8.348					19
49 Naphthalene	128		8.458					
51 4-Chloroaniline	127		8.586					
50 4,4'-DDD	235		8.604					
52 Hexachlorobutadiene	225		8.653					
53 4,4'-DDT	235		8.839					
54 Caprolactam	113		9.114					149
55 4-Chloro-3-methylphenol	107		9.371					
56 2-Methylnaphthalene	142		9.495					9
57 1-Methylnaphthalene	142		9.637					
58 Hexachlorocyclopentadiene	237		9.728					
59 1,2,4,5-Tetrachlorobenzene	216		9.747					
60 2,4,6-Trichlorophenol	196		9.951					
61 2,4,5-Trichlorophenol	196		10.037					
62 1,1'-Biphenyl	154		10.198					19
63 2-Chloronaphthalene	162		10.241					9
64 Phenyl ether	170		10.360					19
65 2-Nitroaniline	65		10.417					19
66 1,4-Dinitrobenzene	75		10.641					19
67 Dimethyl phthalate	163		10.693					9
68 2,6-Dinitrotoluene	165		10.783					19
69 Acenaphthylene	152		10.821					
70 3-Nitroaniline	138		11.045					
71 Acenaphthene	153		11.083					
72 2,4-Dinitrophenol	184		11.211					
73 Dibenzofuran	168		11.349					19
74 2,4-Dinitrotoluene	165		11.387					19
75 4-Nitrophenol	109		11.421					149
76 2,3,4,6-Tetrachlorophenol	232		11.563					
78 Diethyl phthalate	149		11.744					9
77 Thionazin	97		11.826					9
79 Fluorene	166		11.853					9
80 4-Chlorophenyl phenyl ether	204		11.868					
81 4-Nitroaniline	138		11.953					149
82 4,6-Dinitro-2-methylphenol	198		11.982					19
84 Diphenylamine	169		12.048					1
83 N-Nitrosodiphenylamine	169		12.048					1

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
16 1,2-Diphenylhydrazine	77		12.086					1
85 Azobenzene	77		12.086					1
86 Benzophenone	105		12.110					14
87 Sulfotepp	322		12.297					
88 Phorate	75		12.454					9
89 4-Bromophenyl phenyl ether	248		12.519					
91 Hexachlorobenzene	284		12.581					
90 Dimethoate	87		12.668					
92 Simazine	201		12.738					9
93 Atrazine	200		12.771					
95 Pentachloronitrobenzene	237		12.852					
94 Pentachlorophenol	266		12.852					9
97 Phenanthrene	178		13.080					9
96 Disulfoton	88		13.120					
98 Anthracene	178		13.142					
99 Carbazole	167		13.351					149
101 Alachlor	160		13.504					
100 Methyl parathion	109		13.543					9
102 Di-n-butyl phthalate	149		13.741					
103 Ethyl Parathion	97		14.003					
104 Fluoranthene	202		14.364					
105 Benzidine	184		14.540					19
106 Pyrene	202		14.588					9
107 Famphur	218		15.154					
108 Butyl benzyl phthalate	149		15.196					
109 3,3'-Dichlorobenzidine	252		15.691					
110 Bis(2-ethylhexyl) phthalate	149		15.696					9
111 Benzo[a]anthracene	228		15.705					
112 Chrysene	228		15.743					
113 Di-n-octyl phthalate	149		16.238					
114 Benzo[b]fluoranthene	252		16.647					
115 Benzo[k]fluoranthene	252		16.666					9
116 Benzo[a]pyrene	252		16.951					
117 Indeno[1,2,3-cd]pyrene	276		18.093					
118 Dibenz(a,h)anthracene	278		18.093					
119 Benzo[g,h,i]perylene	276		18.411					
S 121 3-Methylphenol	1		0.000					
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\20121218-17654.b\X3143.D		
Lims ID:	MB 480-95170/1-A	Client ID:	
Inject. Date:	18-Dec-2012 17:19:30	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	480-0017654-014		
Misc. Info.:			
Operator:	ANM	Instrument ID:	HP5973X
Injection Vol:	1.0 ul	ALS Bottle#:	15
Lims Batch ID:	96347	Lims Sample ID:	14
Detector:	MS SCAN		
Method:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X-8270LL.m		
Last Update:	09-Mar-2013 09:11:13	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:	10		
Process Host:	XAWRK034		

First Level Reviewer: WilkesD Date: 07-Mar-2013 08:02:51

Calibrated Tentative Identified Compound Results

Compound	RT	Response	Amount ng/uL	Flags

DFTPP

Tentative Identified Compound Results

RT	Response	Amount ng/uL	Quant Cpnd	Qual	Lib Entry	Flags
141-79-7 3-Penten-2-one, 4-methyl-						
3.545	578159	1.91	1	91	116425	
4161-60-8 2-Pentanone, 4-hydroxy-						
3.845	2664614	8.81	1	64	4886	
123-42-2 2-Pentanone, 4-hydroxy-4-methyl-						
4.235	102714363	339.5	1	64	109755	
108-38-3 Benzene, 1,3-dimethyl-						
4.649	5597813	18.5	1	95	117394	
53951-43-2 1,3-Dioxolane-2-methanol, 2,4-dimethyl-						
5.253	465318	1.54	1	28	7721	
124-18-5 Decane						
6.337	235802	0.7793	1	58	109556	
55429-13-5 Benzeneethanamine, N-[(pentafluorophenyl						
7.778	231176	0.7006	2	43	115316	
31158-91-5 Hexadecanoic acid, 1,1-dimethylethyl est						
14.626	2508063	6.11	5	95	15255	
123-95-5 Octadecanoic acid, butyl ester						
15.268	3489020	8.50	5	97	111934	

Report Date: 09-Mar-2013 09:11:14 Chrom Revision: 2.0 01-Feb-2013 10:03:10
Data File: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3143.D
Quantitation Compounds

Compound	RT	Response	Amount ng/uL
* 1 1,4-Dichlorobenzene-d4	6.556	1512841	5.00
* 2 Naphthalene-d8	8.463	1649789	5.00
* 5 Chrysene-d12	15.753	2051862	5.00

QC Flag Legend

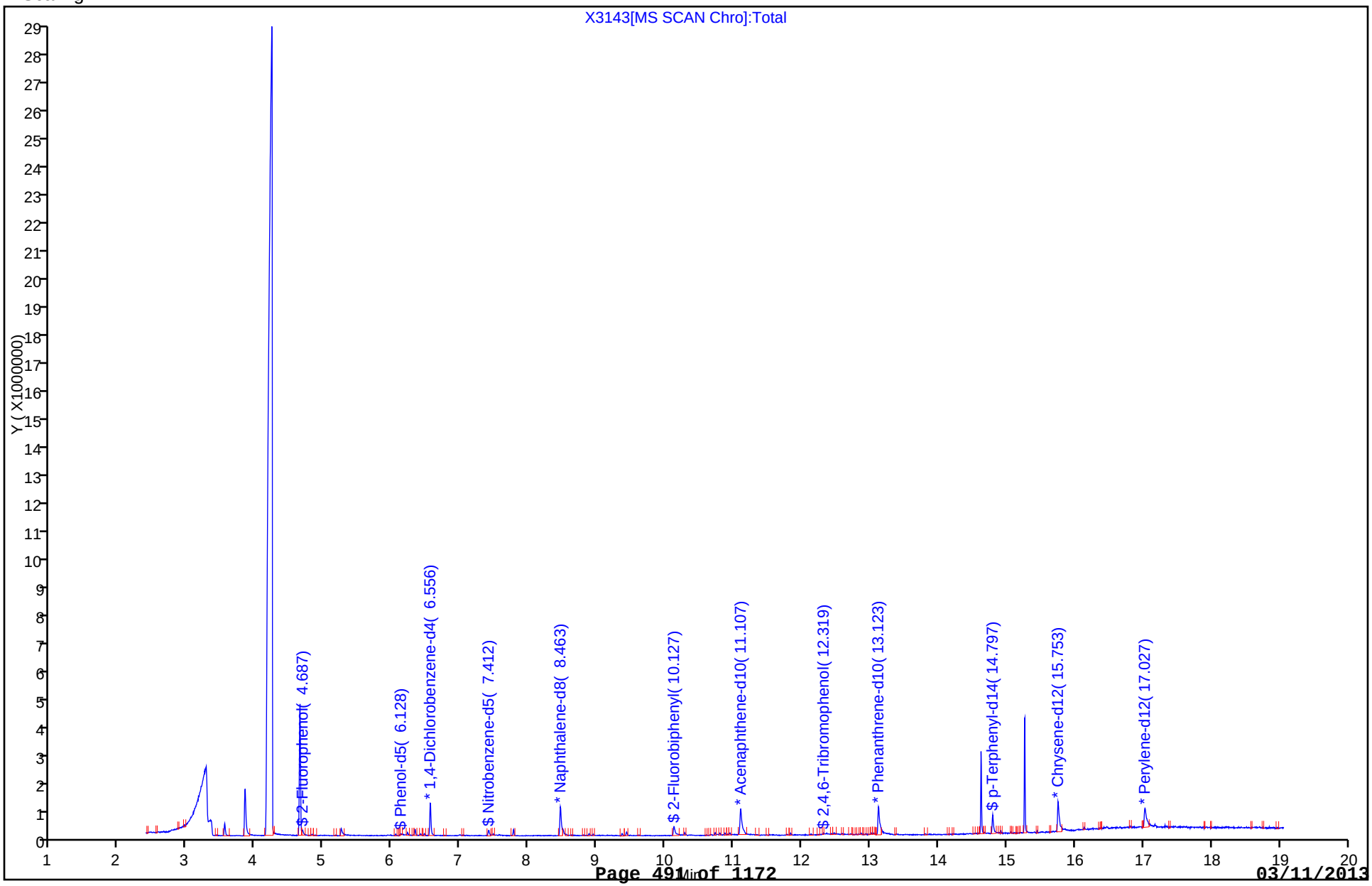
Processing Flags

Report Date: 09-Mar-2013 09:11:14 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3143.D		
Injection Date:	18-Dec-2012 17:19:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	14
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 09:11:14 Chrom Revision: 2.0 01-Feb-2013 10:03:10

Manual Integration/User Assign Peak Report

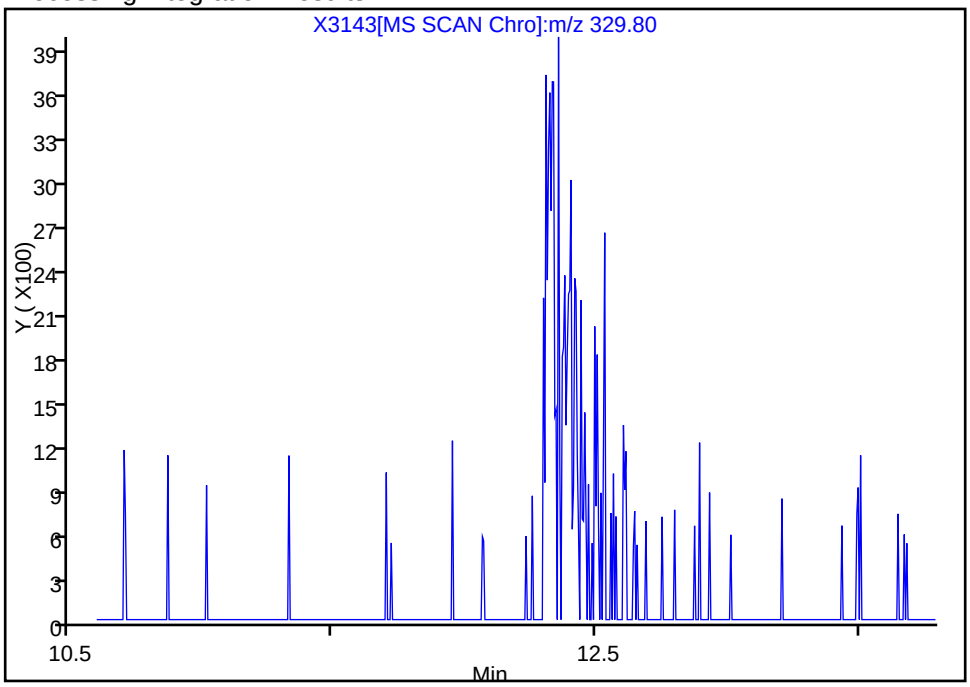
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3143.D		
Injection Date:	18-Dec-2012 17:19:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	14
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: 12.20

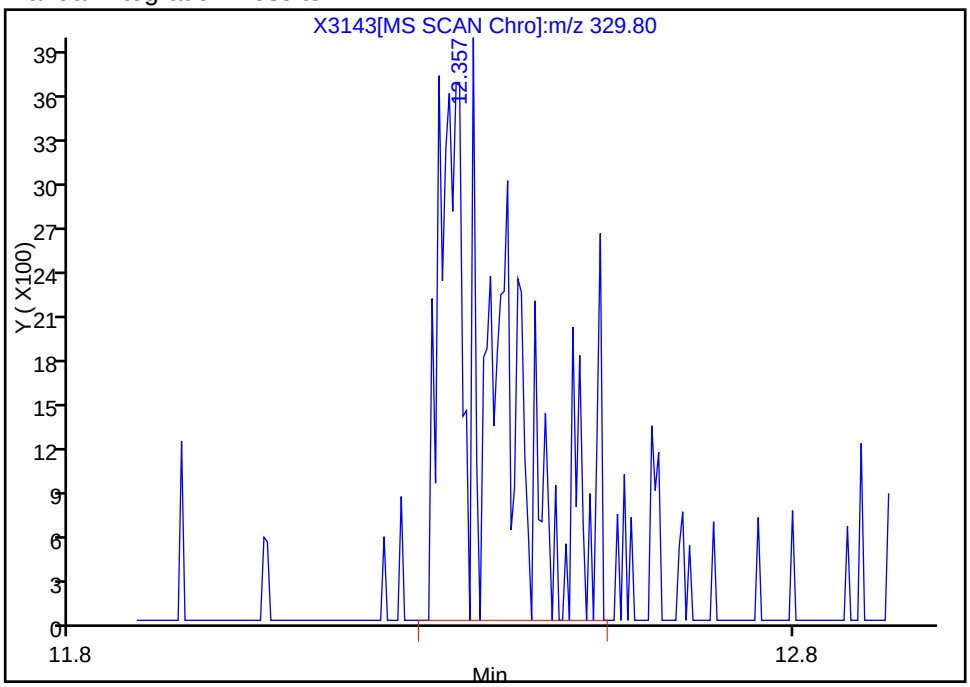
Processing Integration Results

Not Detected
Expected RT: 12.20



Manual Integration Results

RT: 12.36
Response: 21366
Amount: 1.454877



Reviewer: mckernar, 19-Dec-2012 08:46:33
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

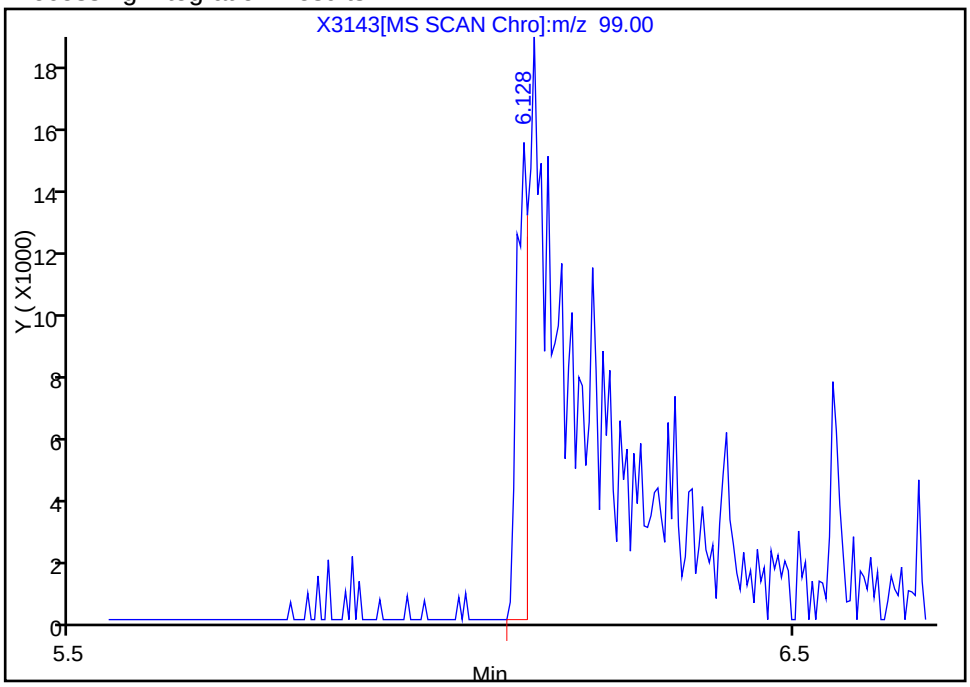
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3143.D		
Injection Date:	18-Dec-2012 17:19:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	14
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: 6.06

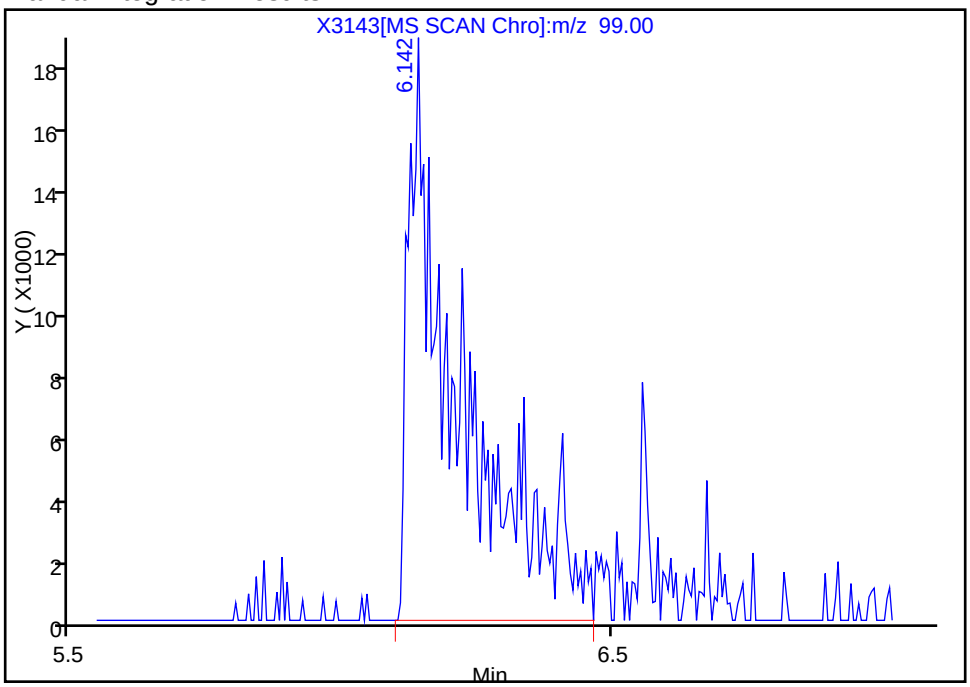
Processing Integration Results

RT: 6.13
Response: 15806
Amount: 0.234279



Manual Integration Results

RT: 6.14
Response: 116246
Amount: 1.862448



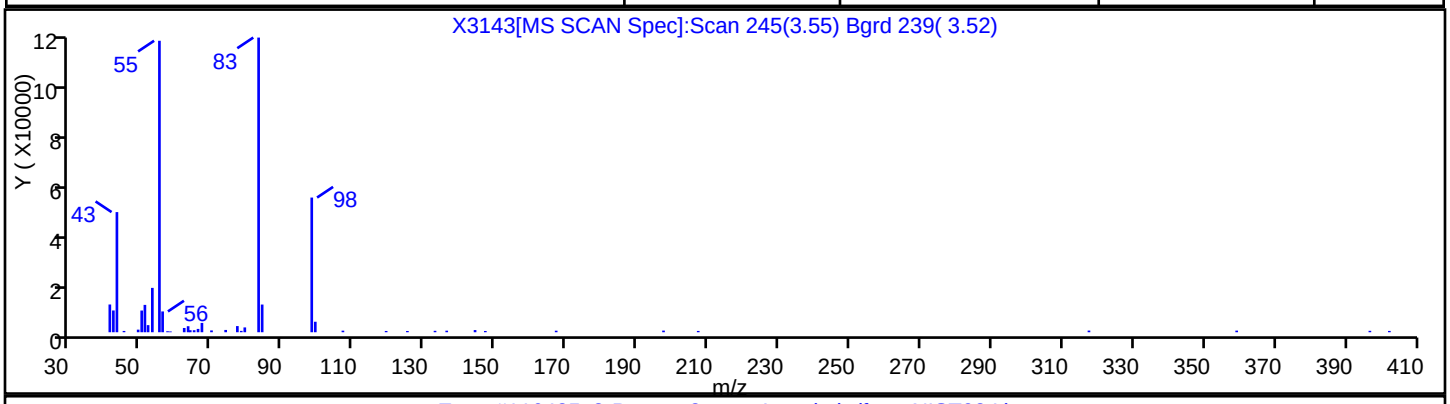
Reviewer: mckernar, 19-Dec-2012 08:46:33
Audit Action: Manually Integrated
Audit Reason: Assign Peak

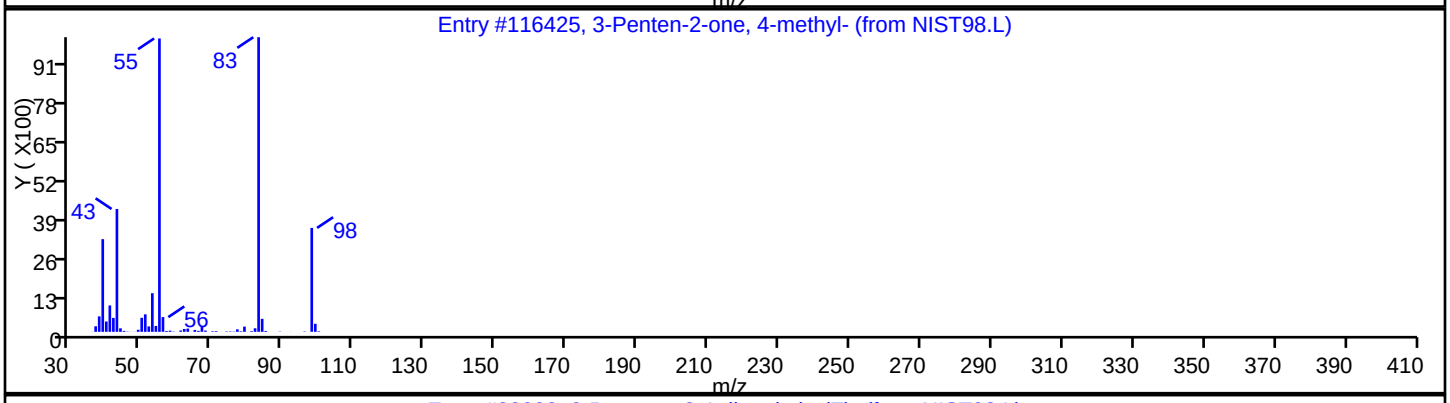
Report Date: 09-Mar-2013 09:11:14 Chrom Revision: 2.0 01-Feb-2013 10:03:10

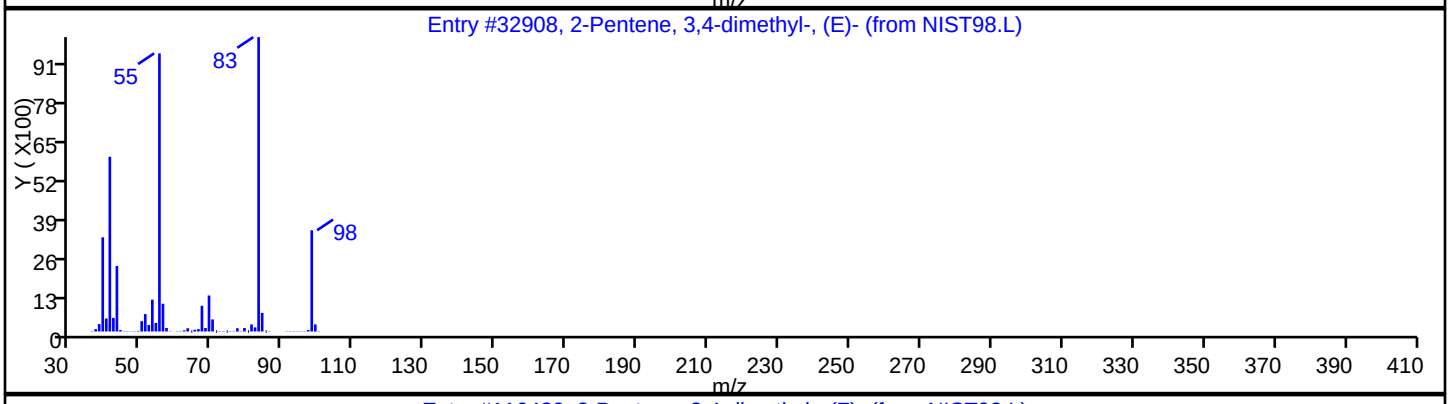
TestAmerica Buffalo

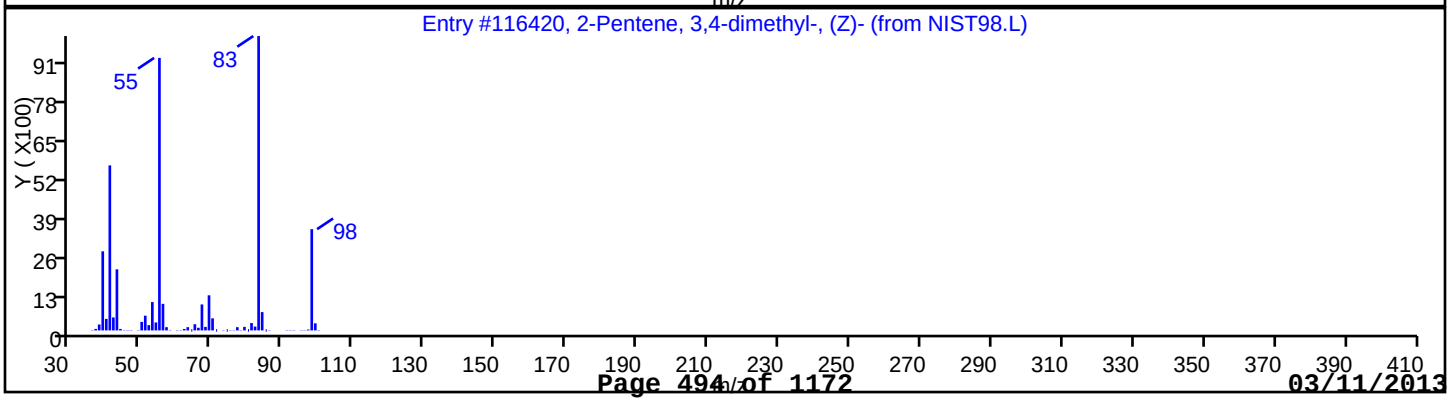
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3143.D		
Injection Date:	18-Dec-2012 17:19:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	14
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
3-Penten-2-one, 4-methyl-	141-79-7	NIST98.L	116425	91
2-Pentene, 3,4-dimethyl-, (E)-	4914-92-5	NIST98.L	32908	91
2-Pentene, 3,4-dimethyl-, (Z)-	4914-91-4	NIST98.L	116420	90







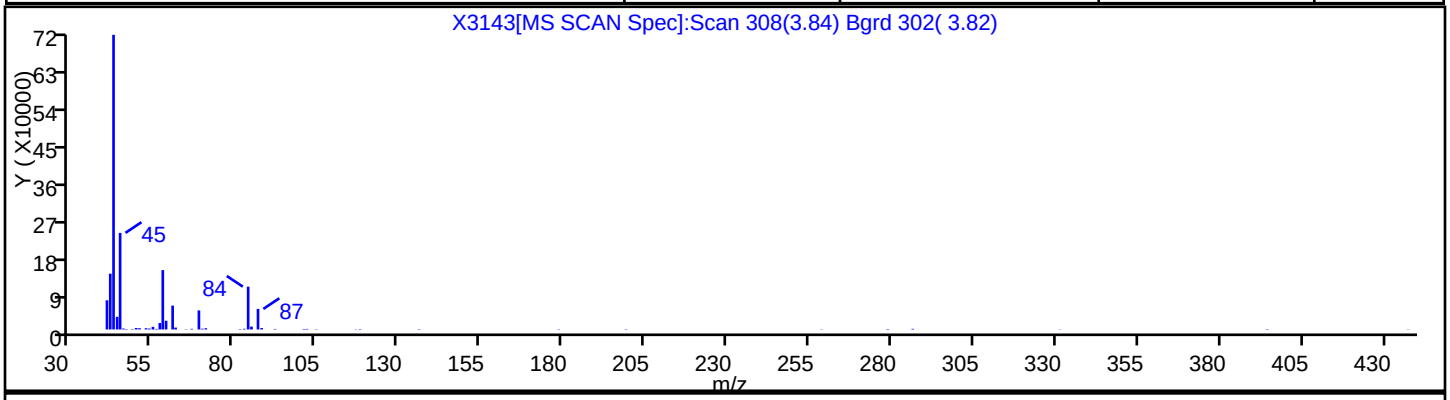


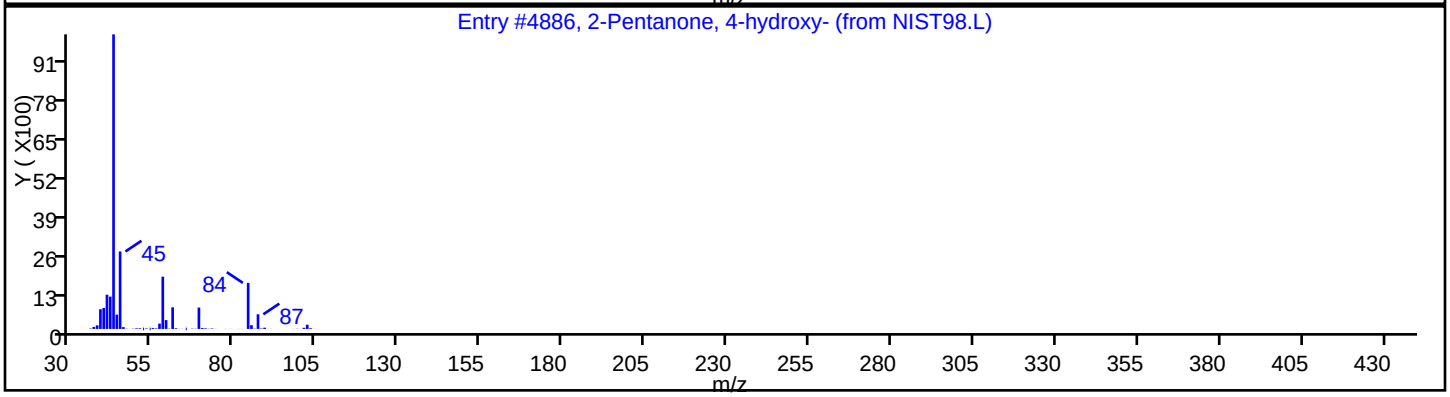
Report Date: 09-Mar-2013 09:11:14 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3143.D		
Injection Date:	18-Dec-2012 17:19:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	14
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-Pentanone, 4-hydroxy-	4161-60-8	NIST98.L	4886	64





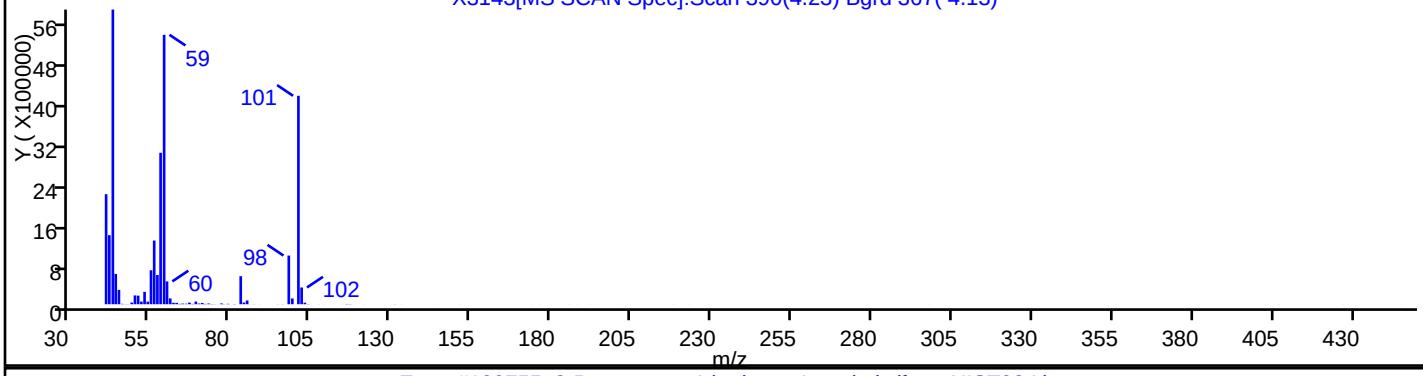
Report Date: 09-Mar-2013 09:11:14 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

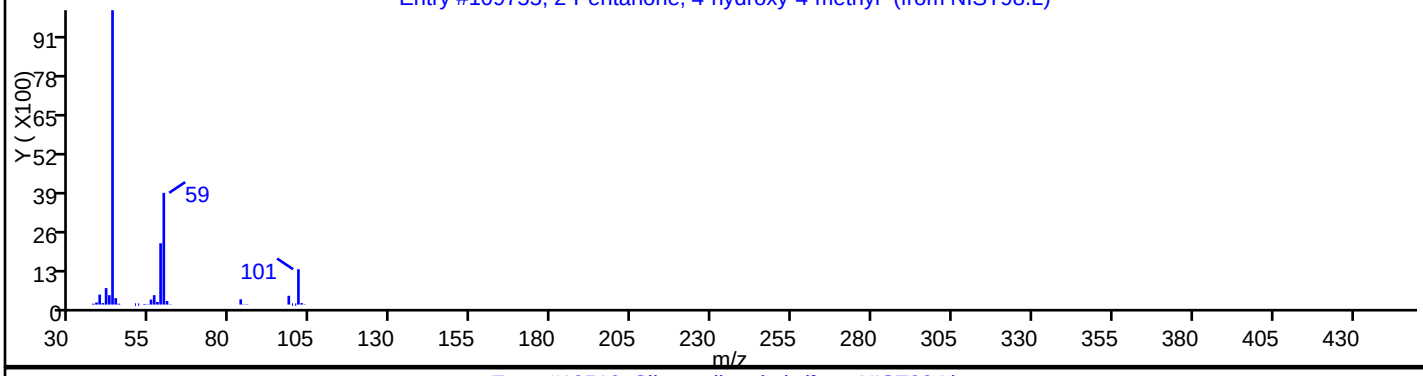
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3143.D		
Injection Date:	18-Dec-2012 17:19:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	14
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	NIST98.L	109755	64
Silane, dimethyl-	1111-74-6	NIST98.L	19519	43
Oxirane, tetramethyl-	5076-20-0	NIST98.L	19436	40

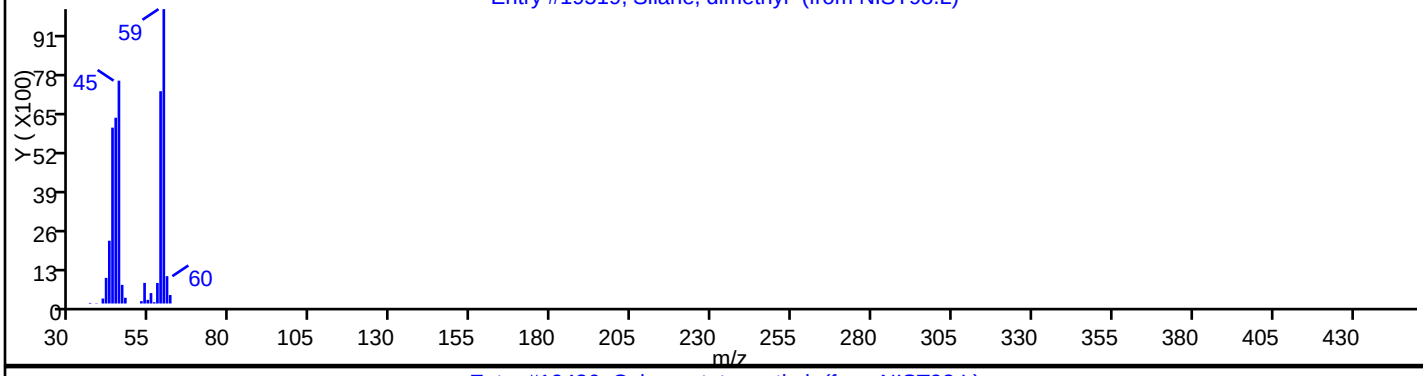
X3143[MS SCAN Spec]:Scan 390(4.23) Bgrd 367(4.13)



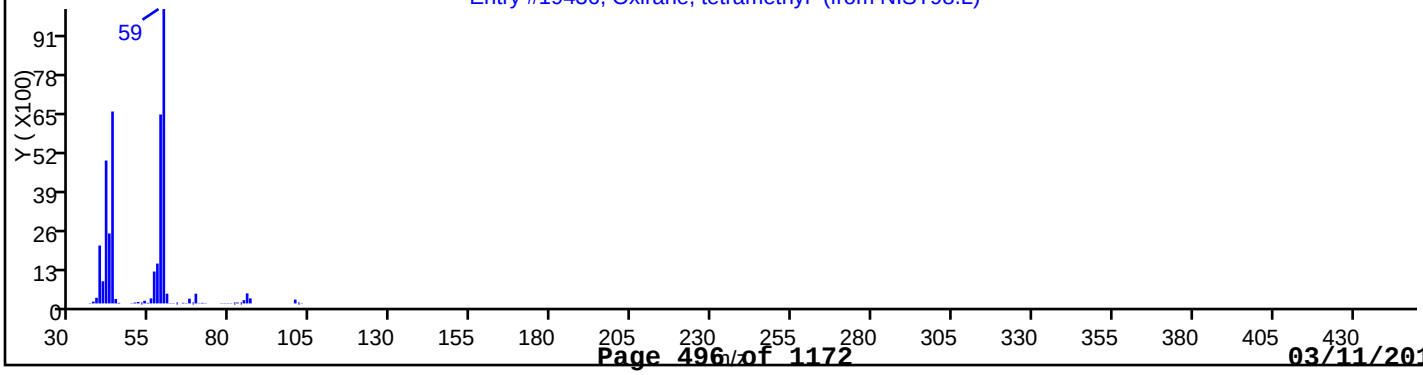
Entry #109755, 2-Pentanone, 4-hydroxy-4-methyl- (from NIST98.L)



Entry #19519, Silane, dimethyl- (from NIST98.L)



Entry #19436, Oxirane, tetramethyl- (from NIST98.L)

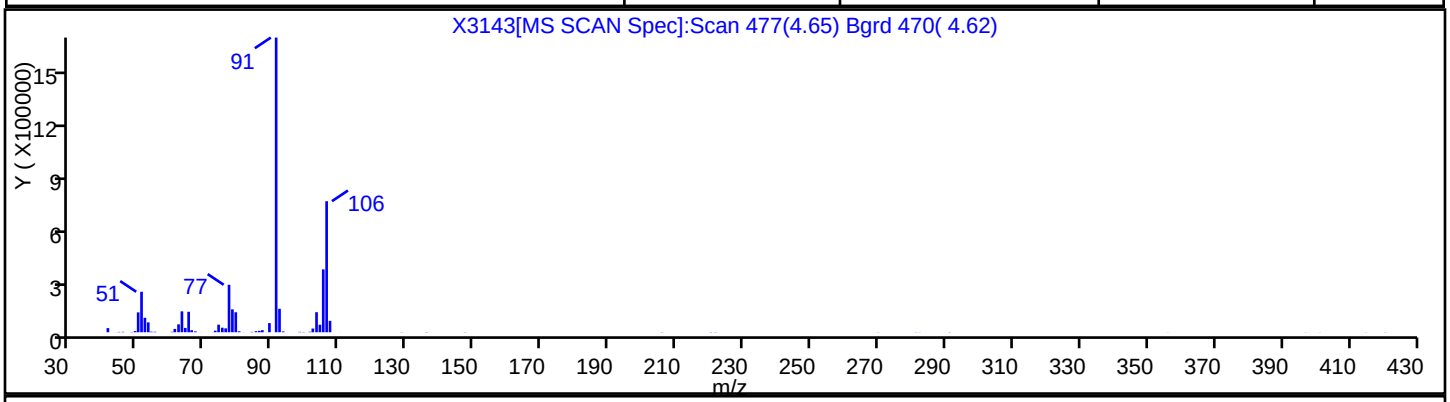


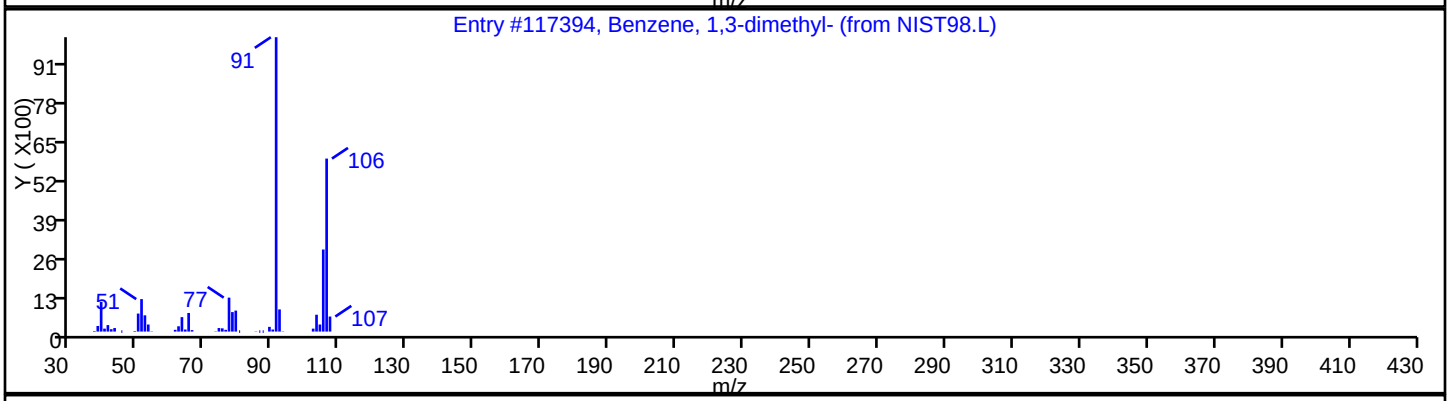
Report Date: 09-Mar-2013 09:11:14 Chrom Revision: 2.0 01-Feb-2013 10:03:10

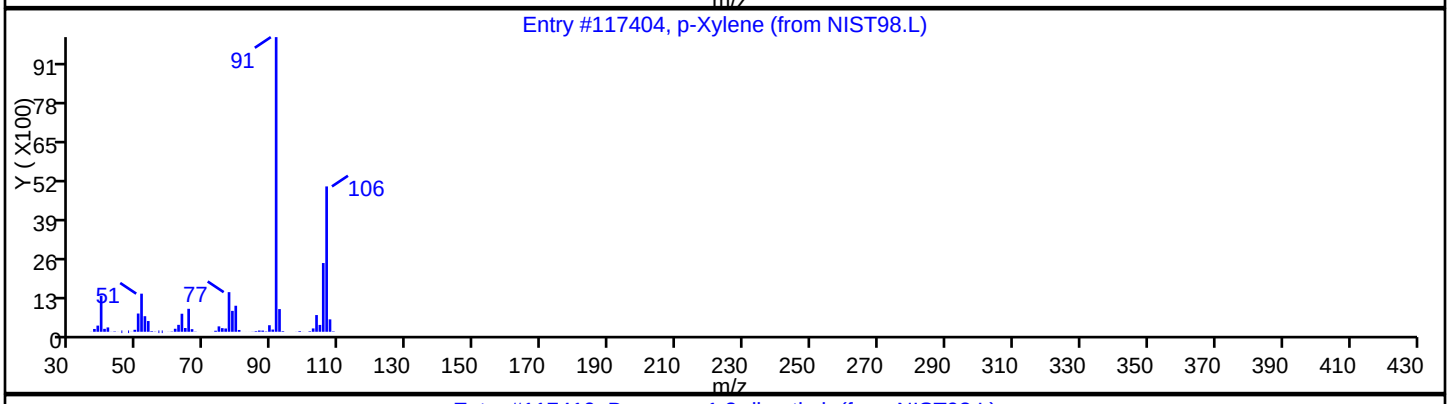
TestAmerica Buffalo

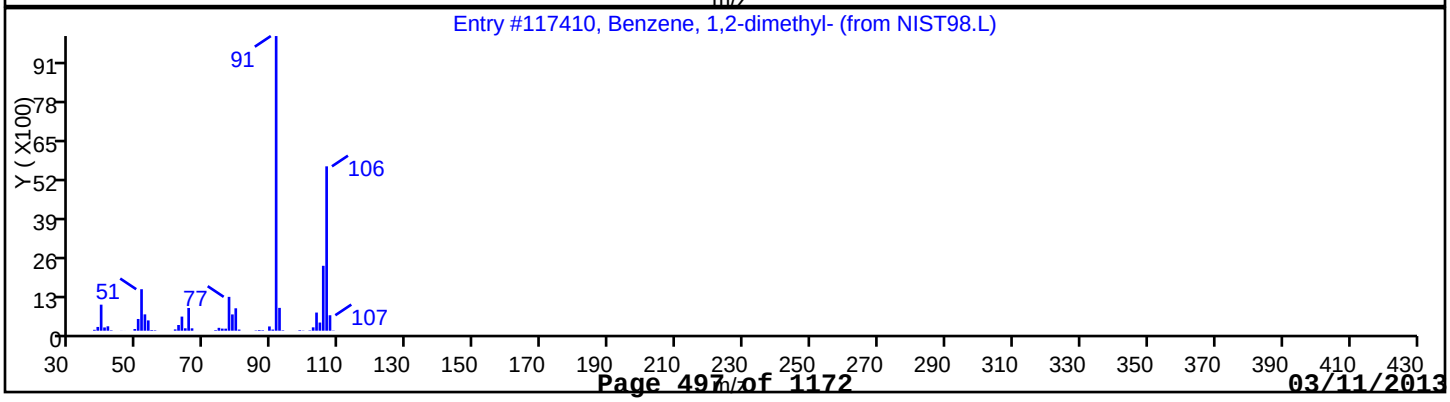
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3143.D		
Injection Date:	18-Dec-2012 17:19:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	14
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Benzene, 1,3-dimethyl-	108-38-3	NIST98.L	117394	95
p-Xylene	106-42-3	NIST98.L	117404	95
Benzene, 1,2-dimethyl-	95-47-6	NIST98.L	117410	95







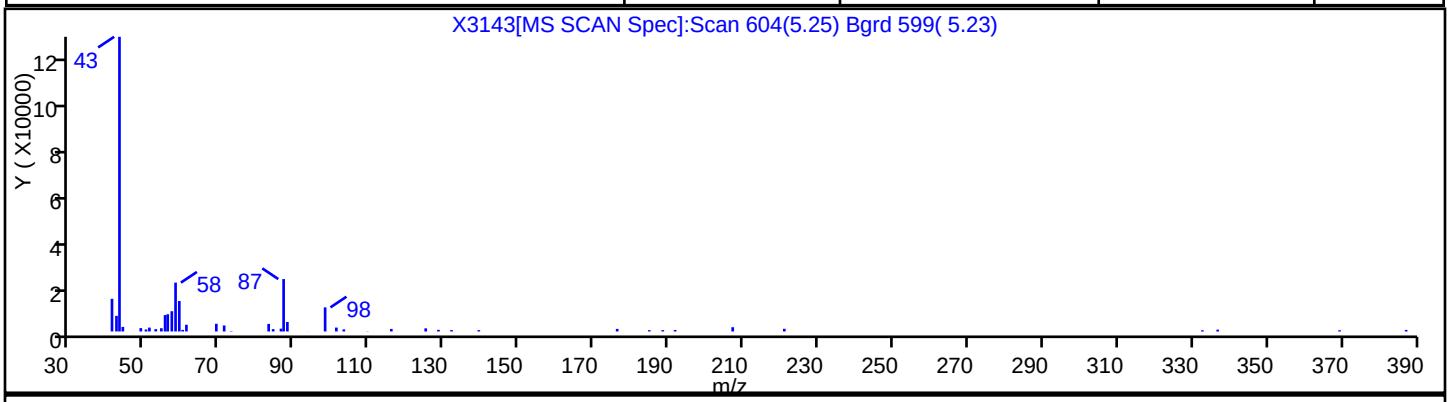


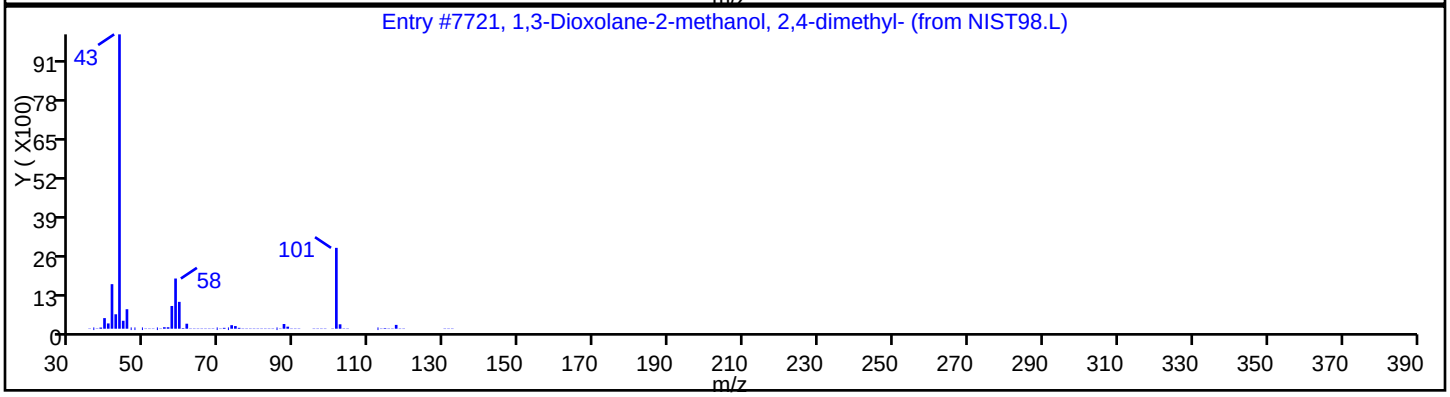
Report Date: 09-Mar-2013 09:11:14 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3143.D		
Injection Date:	18-Dec-2012 17:19:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	14
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
1,3-Dioxolane-2-methanol, 2,4-dimethyl-	53951-43-2	NIST98.L	7721	28



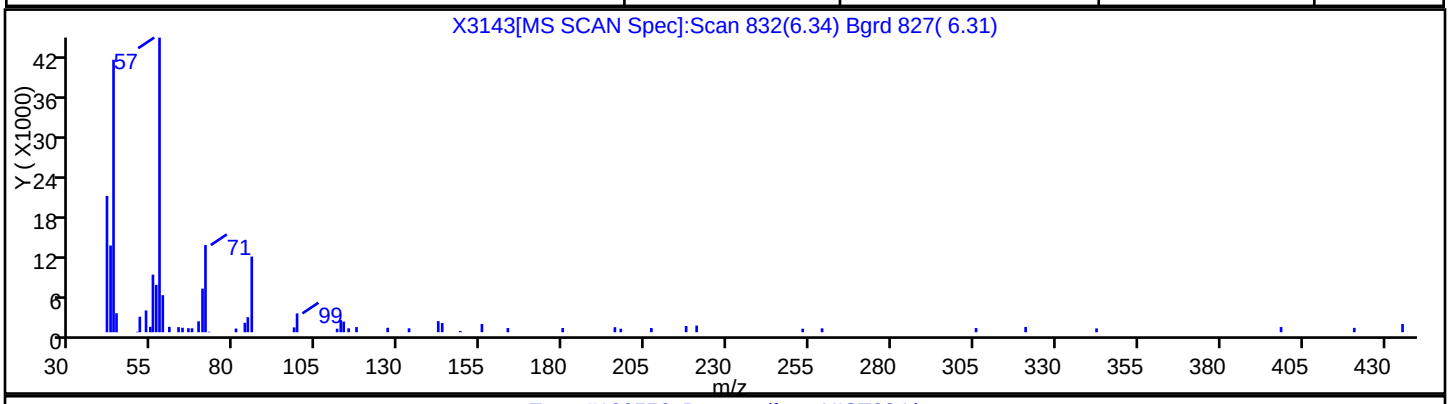


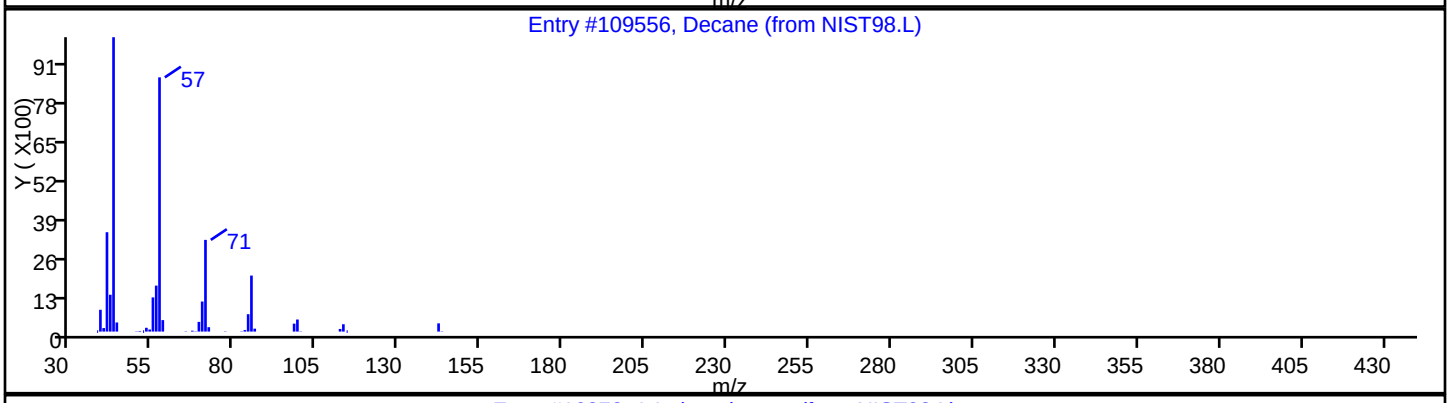
Report Date: 09-Mar-2013 09:11:14 Chrom Revision: 2.0 01-Feb-2013 10:03:10

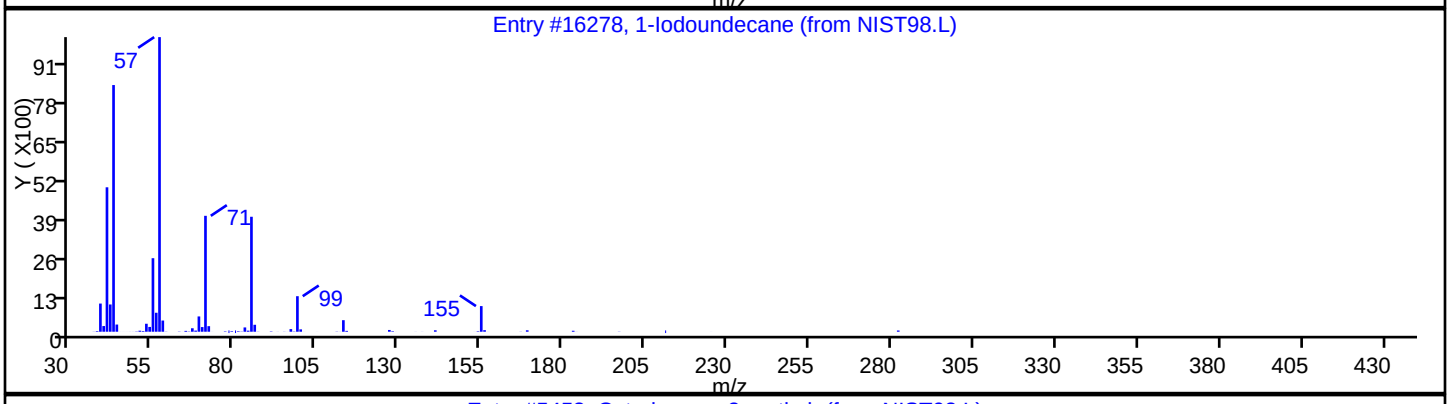
TestAmerica Buffalo

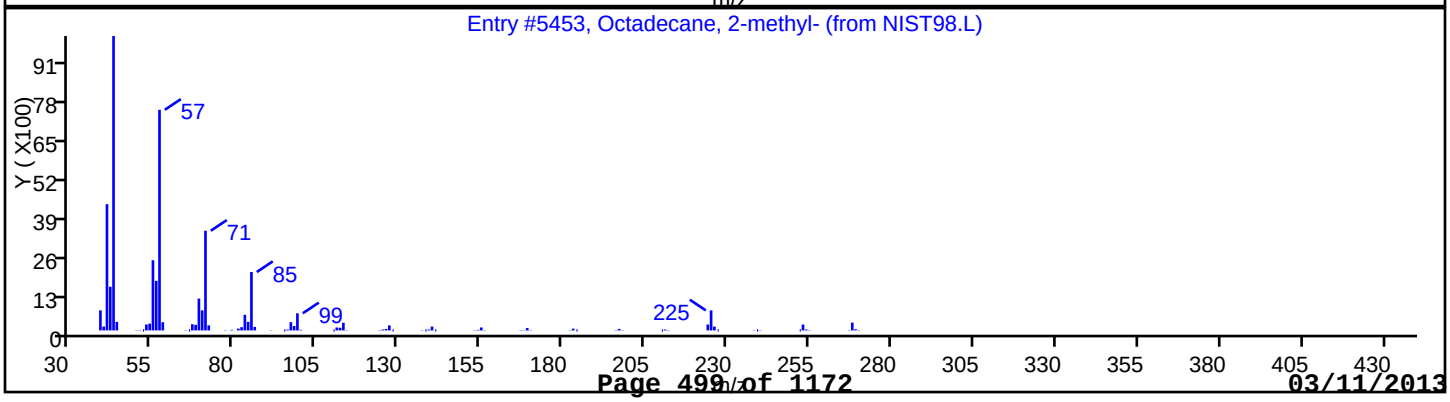
Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3143.D		
Injection Date:	18-Dec-2012 17:19:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	14
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Decane	124-18-5	NIST98.L	109556	58
1-Iodoundecane	4282-44-4	NIST98.L	16278	50
Octadecane, 2-methyl-	1560-88-9	NIST98.L	5453	47









Report Date: 09-Mar-2013 09:11:14 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3143.D

Injection Date: 18-Dec-2012 17:19:30 Limit Group: MB - 8270RCP_MCP ICAL

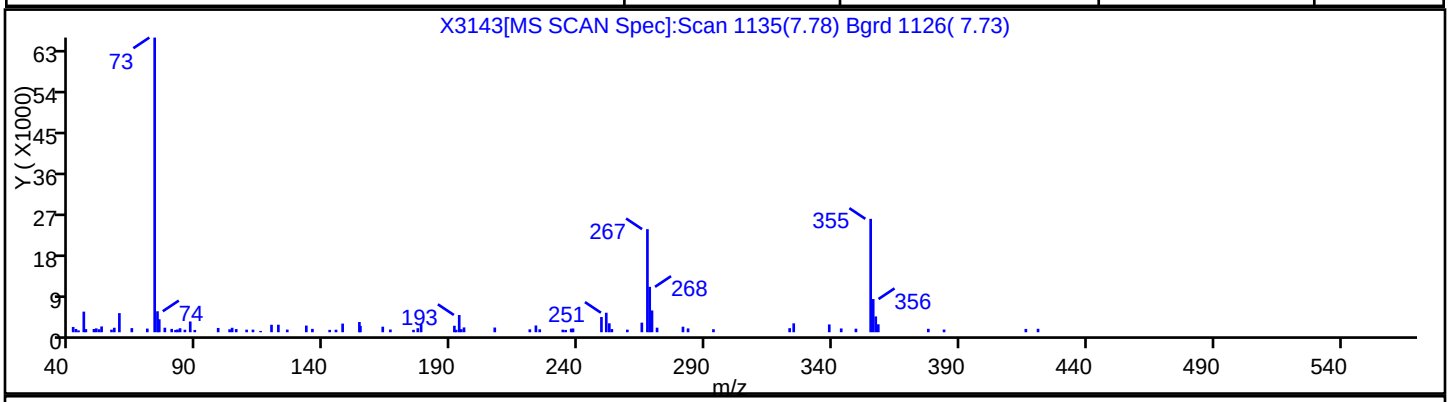
Client ID: Instrument ID: HP5973X

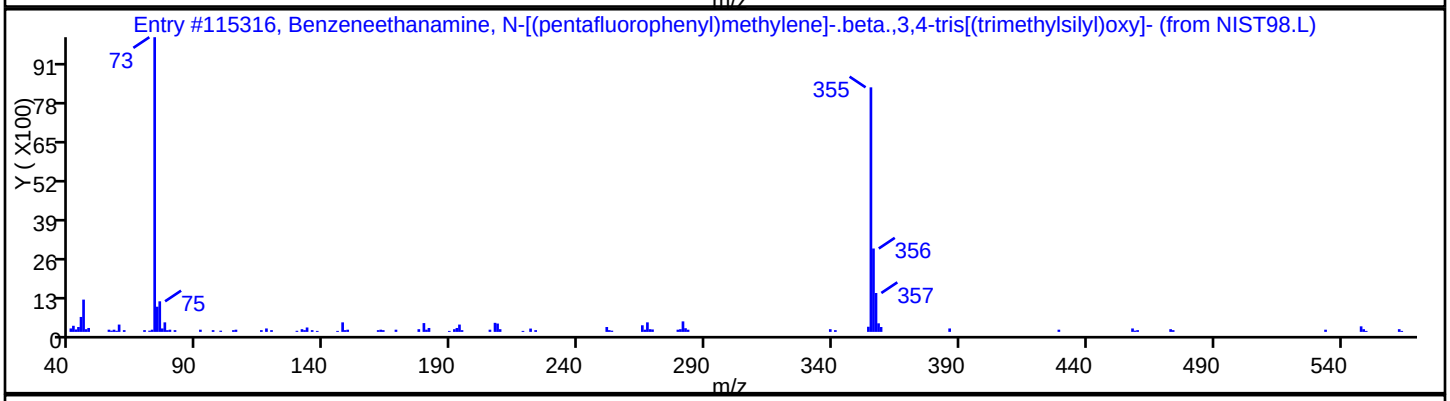
Lims Batch ID: 96347 Lims Sample ID: 14

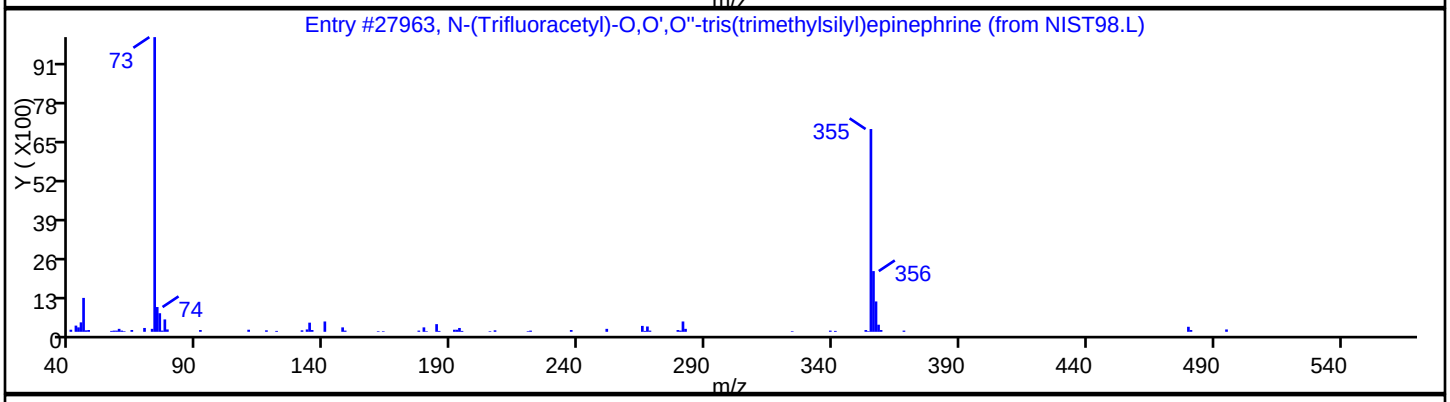
Operator ID: ANM Injection Vol: 1.0 ul

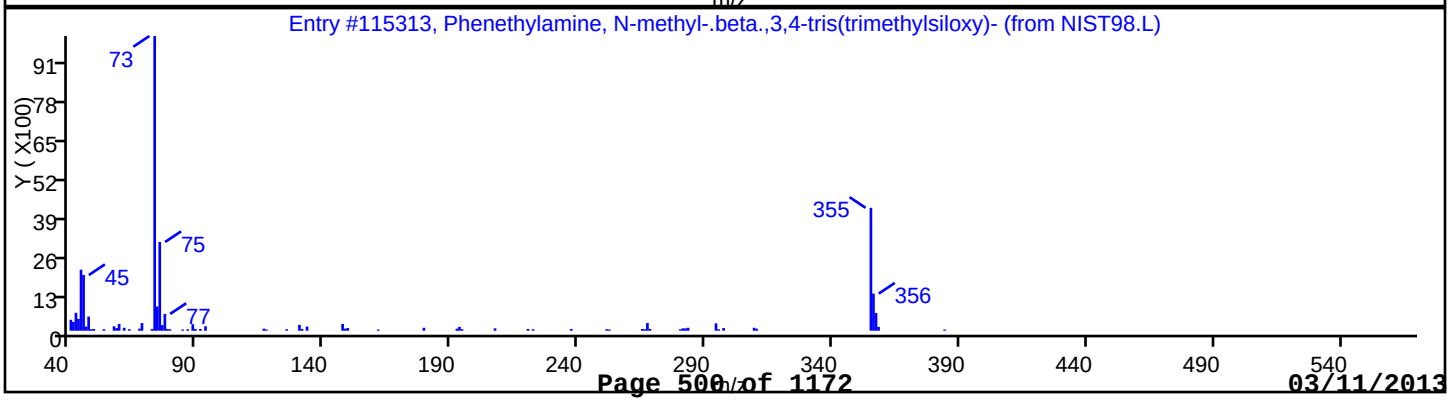
Column Type: RXI-5Sil MS Column Dia: 0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Benzeneethanamine, N-[(pentafluorophenyl	55429-13-5	NIST98.L	115316	43
N-(Trifluoracetyl)-O,O',O''-tris(trimeth	54135-51-2	NIST98.L	27963	40
Phenethylamine, N-methyl-.beta.,3,4-tris	10538-85-9	NIST98.L	115313	40









Report Date: 09-Mar-2013 09:11:14 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3143.D

Injection Date: 18-Dec-2012 17:19:30 Limit Group: MB - 8270RCP_MCP ICAL

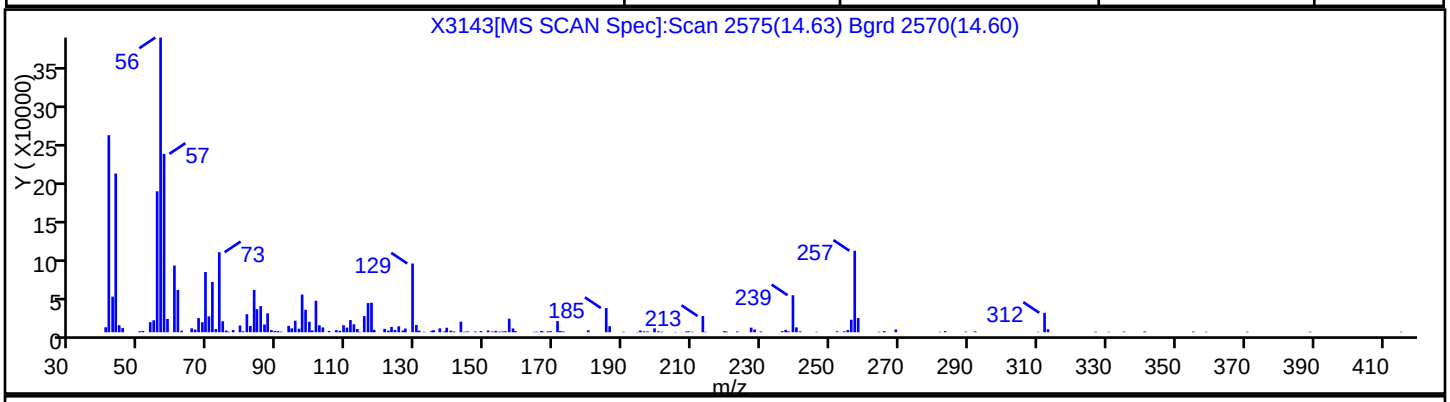
Client ID: Instrument ID: HP5973X

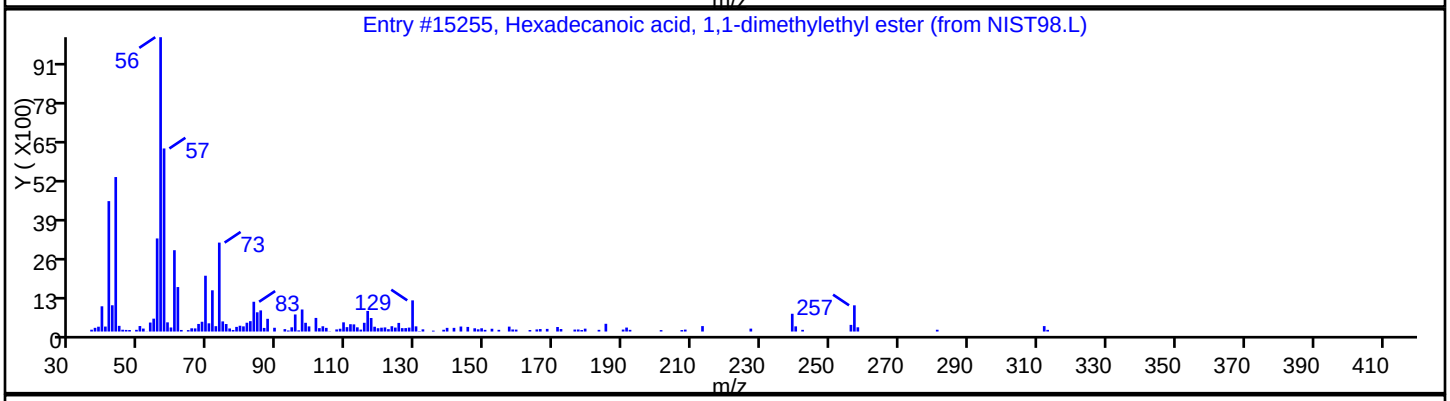
Lims Batch ID: 96347 Lims Sample ID: 14

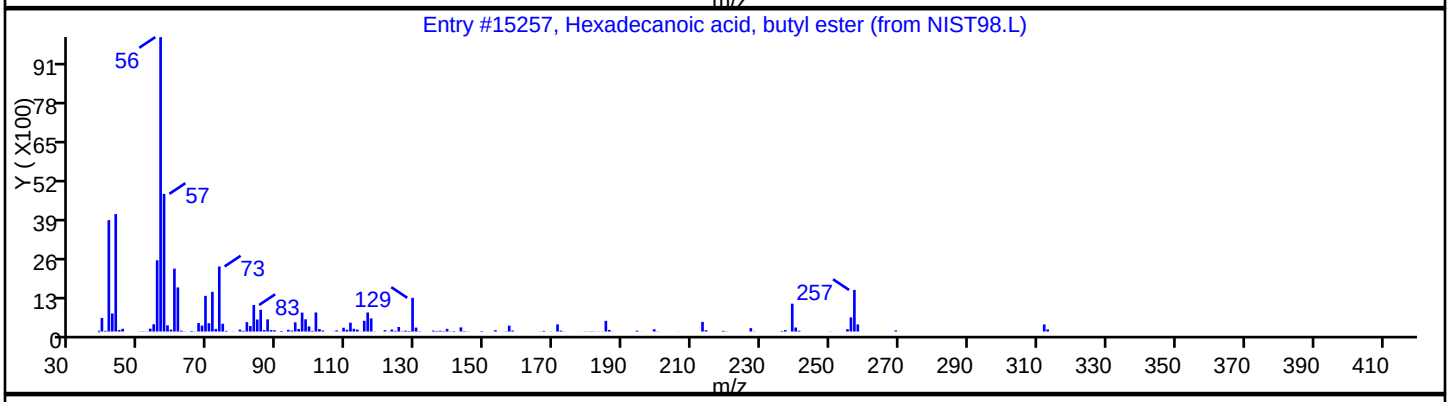
Operator ID: ANM Injection Vol: 1.0 ul

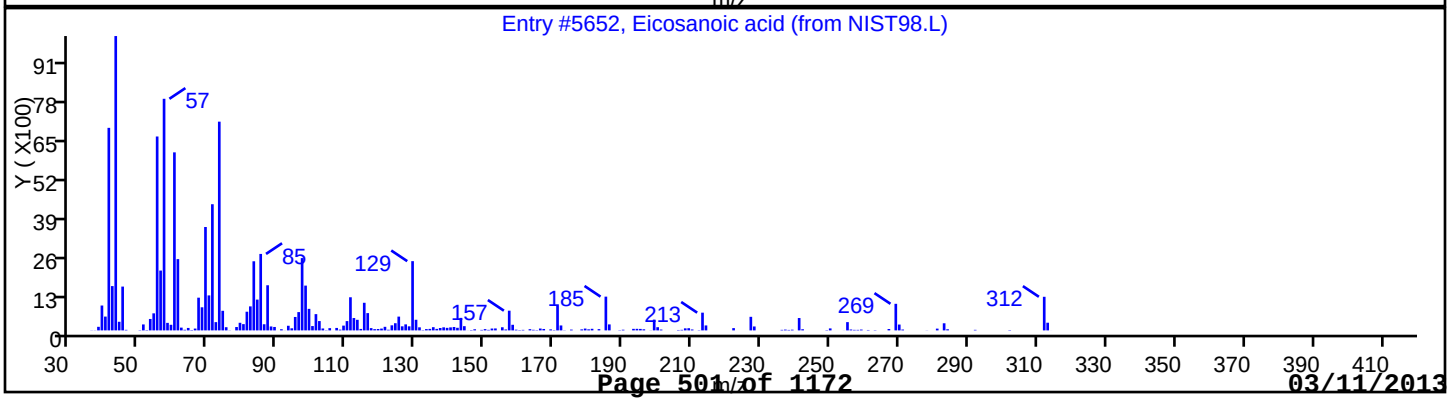
Column Type: RXI-5Sil MS Column Dia: 0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Hexadecanoic acid, 1,1-dimethylethyl est	31158-91-5	NIST98.L	15255	95
Hexadecanoic acid, butyl ester	111-6-8	NIST98.L	15257	50
Eicosanoic acid	506-30-9	NIST98.L	5652	44









Report Date: 09-Mar-2013 09:11:14 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3143.D

Injection Date: 18-Dec-2012 17:19:30 Limit Group: MB - 8270RCP_MCP ICAL

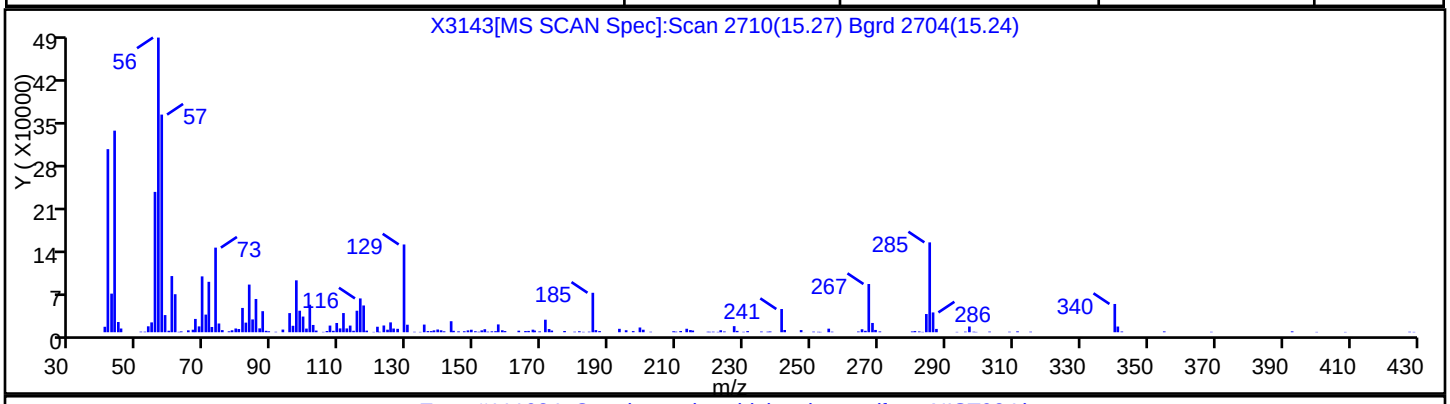
Client ID: Instrument ID: HP5973X

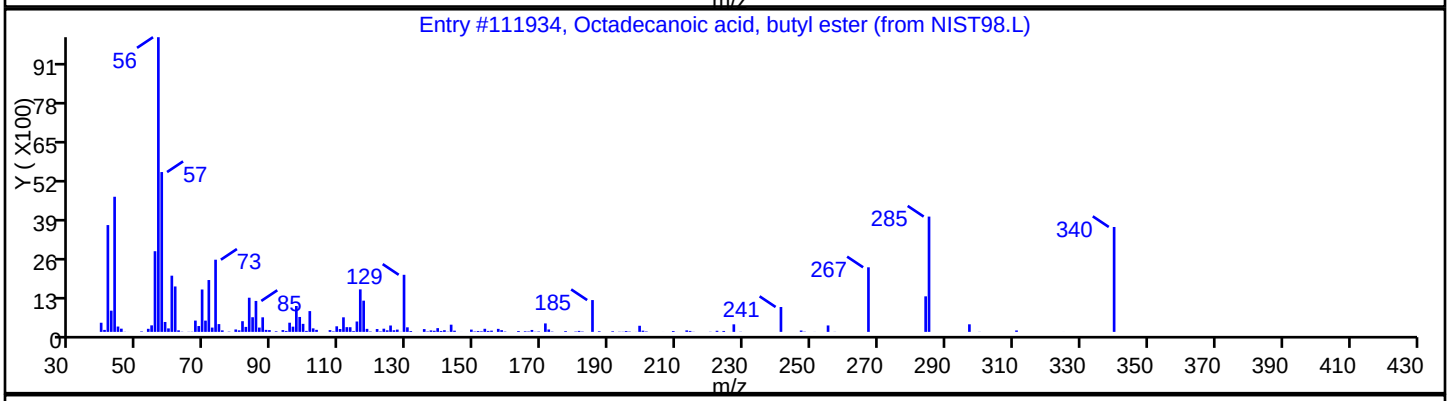
Lims Batch ID: 96347 Lims Sample ID: 14

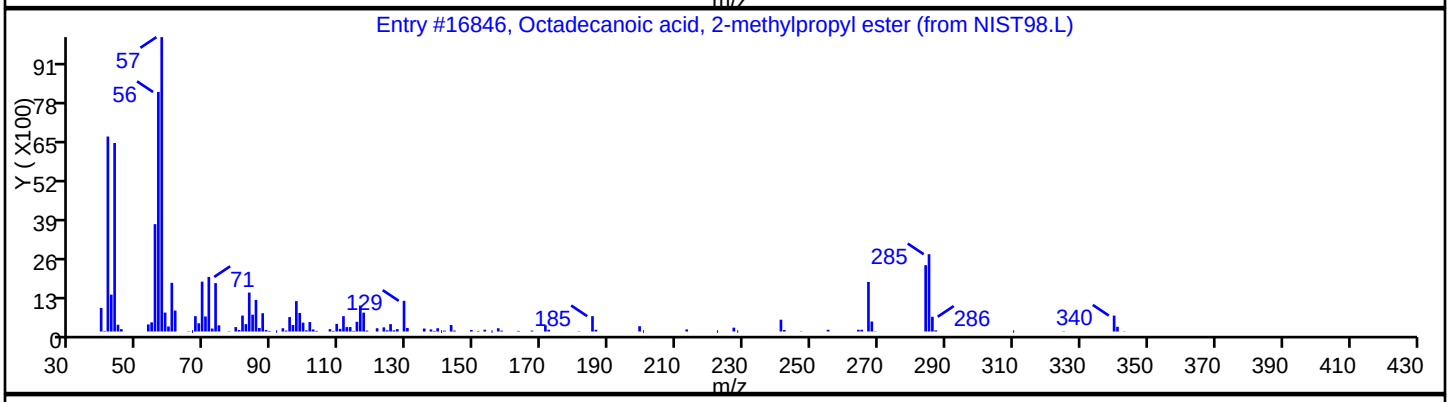
Operator ID: ANM Injection Vol: 1.0 ul

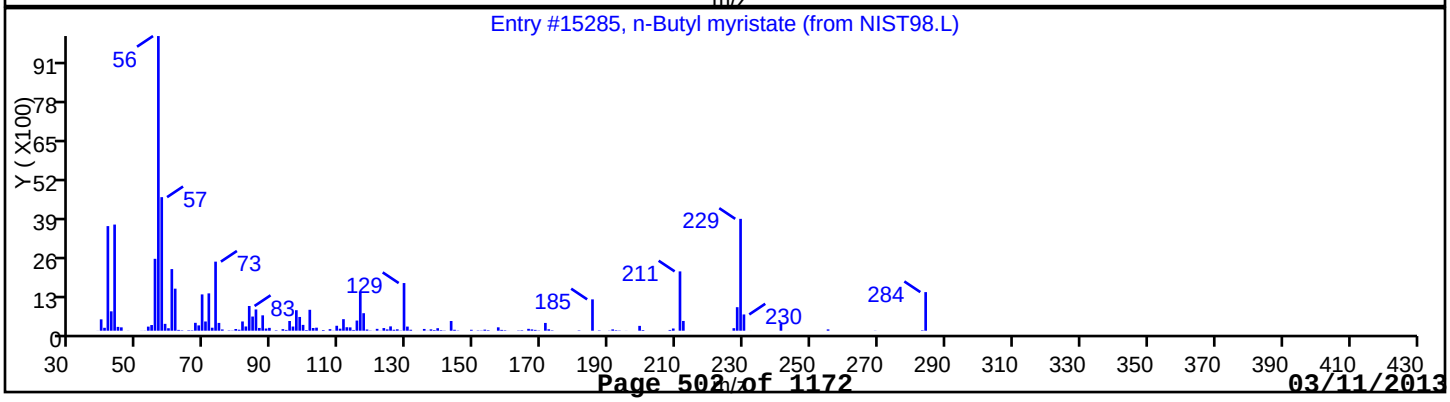
Column Type: RXI-5Sil MS Column Dia: 0.25 mm

Library Search Compound Match	CAS Number	Library	Entry	Quality
Octadecanoic acid, butyl ester	123-95-5	NIST98.L	111934	97
Octadecanoic acid, 2-methylpropyl ester	646-13-9	NIST98.L	16846	93
n-Butyl myristate	110-36-1	NIST98.L	15285	58









FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-29598-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 480-95170/2-A
Matrix: Solid
Lab File ID: X3144.D
Analysis Method: 8270D
Date Collected:
Extract. Method: 3546
Date Extracted: 12/11/2012 08:50
Sample wt/vol: 000030.4(g)
Date Analyzed: 12/18/2012 17:44
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.: 96347
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	60.2		33	9.9
95-50-1	1,2-Dichlorobenzene	55.0		33	9.9
541-73-1	1,3-Dichlorobenzene	51.1		33	9.9
100-52-7	Benzaldehyde	212		33	9.9
106-46-7	1,4-Dichlorobenzene	58.8		33	9.9
108-60-1	2,2'-oxybis[1-chloropropane]	52.7		33	9.9
95-95-4	2,4,5-Trichlorophenol	49.6		33	11
88-06-2	2,4,6-Trichlorophenol	43.2		33	14
100-51-6	Benzyl alcohol	ND		66	9.9
120-83-2	2,4-Dichlorophenol	56.8		33	9.9
105-67-9	2,4-Dimethylphenol	74.3		33	9.9
51-28-5	2,4-Dinitrophenol	49.6		33	27
121-14-2	2,4-Dinitrotoluene	52.9		33	9.9
100-01-6	4-Nitroaniline	51.6	J	160	28
606-20-2	2,6-Dinitrotoluene	28.4	J	33	28
91-58-7	2-Chloronaphthalene	113		33	9.9
95-57-8	2-Chlorophenol	53.2		33	9.9
86-30-6	N-Nitrosodiphenylamine	98.8		33	9.9
91-57-6	2-Methylnaphthalene	55.1		33	9.9
95-48-7	2-Methylphenol	39.2		33	9.9
88-75-5	2-Nitrophenol	46.9		33	13
91-94-1	3,3'-Dichlorobenzidine	50.2	J	66	12
88-74-4	2-Nitroaniline	47.3	J	160	41
101-55-3	4-Bromophenyl phenyl ether	58.2		33	9.9
77-47-4	Hexachlorocyclopentadiene	45.8	J	66	9.9
106-47-8	4-Chloroaniline	36.3	J	66	30
100-02-7	4-Nitrophenol	ND		160	14
83-32-9	Acenaphthene	53.7		33	9.9
534-52-1	4,6-Dinitro-2-methylphenol	74.2	J	160	32
95-94-3	1,2,4,5-Tetrachlorobenzene	112		33	9.9
208-96-8	Acenaphthylene	60.1		33	9.9
98-86-2	Acetophenone	380		33	9.9
62-53-3	Aniline	98.6		33	9.9
120-12-7	Anthracene	61.4		33	9.9

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-29598-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 480-95170/2-A
Matrix: Solid
Lab File ID: X3144.D
Analysis Method: 8270D
Date Collected:
Extract. Method: 3546
Date Extracted: 12/11/2012 08:50
Sample wt/vol: 000030.4(g)
Date Analyzed: 12/18/2012 17:44
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.: 96347
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1912-24-9	Atrazine	231		33	9.9
103-33-3	Azobenzene	189		33	9.9
56-55-3	Benzo[a]anthracene	63.7		33	9.9
50-32-8	Benzo[a]pyrene	52.1		33	9.9
205-99-2	Benzo[b]fluoranthene	52.1		33	9.9
191-24-2	Benzo[g,h,i]perylene	63.3		33	9.9
105-60-2	Caprolactam	290		33	9.9
99-09-2	3-Nitroaniline	48.7	J	160	9.9
207-08-9	Benzo[k]fluoranthene	74.1		33	17
111-91-1	Bis(2-chloroethoxy)methane	56.6		33	9.9
92-52-4	1,1'-Biphenyl	278		33	9.9
111-44-4	Bis(2-chloroethyl)ether	59.8		33	9.9
117-81-7	Bis(2-ethylhexyl) phthalate	ND		160	66
85-68-7	Butyl benzyl phthalate	58.6		33	9.9
218-01-9	Chrysene	61.3		33	9.9
621-64-7	N-Nitrosodi-n-propylamine	61.6		33	9.9
65-85-0	Benzoic acid	ND		160	15
53-70-3	Dibenz(a,h)anthracene	67.6		33	9.9
132-64-9	Dibenzofuran	61.8		33	9.9
84-66-2	Diethyl phthalate	56.0		33	11
131-11-3	Dimethyl phthalate	57.9		33	9.9
84-74-2	Di-n-butyl phthalate	63.4	J	160	49
117-84-0	Di-n-octyl phthalate	57.1		33	9.9
101-84-8	Phenyl ether	212		33	9.9
58-90-2	2,3,4,6-Tetrachlorophenol	65.0		33	9.9
206-44-0	Fluoranthene	58.3		33	9.9
59-50-7	4-Chloro-3-methylphenol	61.2	J	66	9.9
86-73-7	Fluorene	53.7		33	9.9
7005-72-3	4-Chlorophenyl phenyl ether	59.6		33	9.9
118-74-1	Hexachlorobenzene	57.0		33	9.9
87-68-3	Hexachlorobutadiene	55.6		33	9.9
67-72-1	Hexachloroethane	46.6		33	9.9
193-39-5	Indeno[1,2,3-cd]pyrene	67.5		33	9.9
78-59-1	Isophorone	57.0		33	9.9

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-29598-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 480-95170/2-A
Matrix: Solid
Lab File ID: X3144.D
Analysis Method: 8270D
Date Collected:
Extract. Method: 3546
Date Extracted: 12/11/2012 08:50
Sample wt/vol: 000030.4(g)
Date Analyzed: 12/18/2012 17:44
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.: 96347
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-20-3	Naphthalene	56.9		33	9.9
98-95-3	Nitrobenzene	61.4		33	9.9
87-86-5	Pentachlorophenol	59.8		33	9.9
85-01-8	Phenanthrene	60.8		33	9.9
119-61-9	Benzophenone	216		33	9.9
108-95-2	Phenol	59.9		33	9.9
129-00-0	Pyrene	64.4		33	9.9
62-75-9	N-Nitrosodimethylamine	155		33	9.9
90-12-0	1-Methylnaphthalene	214		33	9.9
106-44-5	4-Methylphenol	123		33	9.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	76		30-130
367-12-4	2-Fluorophenol	77		30-130
4165-60-0	Nitrobenzene-d5	83		30-130
4165-62-2	Phenol-d5	80		30-130
321-60-8	2-Fluorobiphenyl	89		30-130
1718-51-0	p-Terphenyl-d14	100		30-130

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3144.D
Lims ID: LCS 480-95170/2-A Client ID:
Inject. Date: 18-Dec-2012 17:44:30 Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: 480-0017654-015
Misc. Info.:
Operator: ANM Instrument ID: HP5973X
Injection Vol: 1.0 ul ALS Bottle#: 16
Lims Batch ID: 96347 Lims Sample ID: 15
Detector: MS SCAN

Method: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X-8270LL.m
Last Update: 11-Mar-2013 09:26:19 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: XAWRK026

First Level Reviewer: mckernar Date: 19-Dec-2012 08:53:35

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.565	6.537	0.028	83	231141	5.00	
* 2 Naphthalene-d8	136	8.463	8.425	0.038	98	845678	5.00	
* 3 Acenaphthene-d10	164	11.102	11.035	0.067	92	513723	5.00	
* 4 Phenanthrene-d10	188	13.118	13.052	0.066	97	825641	5.00	
* 5 Chrysene-d12	240	15.753	15.720	0.033	97	640868	5.00	
* 6 Perylene-d12	264	17.023	17.004	0.019	97	629407	5.00	
$ 7 2-Fluorophenol	112	4.701	4.672	0.029	0	80443	1.53	M
$ 8 Phenol-d5	99	6.099	6.061	0.038	0	102068	1.60	M
$ 9 Nitrobenzene-d5	82	7.402	7.374	0.028	75	105853	1.67	
$ 10 2-Fluorobiphenyl	172	10.113	10.056	0.057	93	230034	1.78	
$ 11 2,4,6-Tribromophenol	330	12.277	12.196	0.081	0	23062	1.52	M
$ 12 p-Terphenyl-d14	244	14.792	14.740	0.052	92	246699	2.00	
18 1,4-Dioxane	88	2.471	2.580	-0.109	35	169879	7.17	
19 N-Nitrosodimethylamine	42	2.803	2.918	-0.115	68	198814	4.71	
20 Pyridine	52	2.880	2.975	-0.095	82	90617	2.11	
21 Benzaldehyde	77	5.928	5.909	0.019	91	292091	6.45	
23 Aniline	93	6.099	6.071	0.028	94	253579	3.00	
22 Phenol	94	6.142	6.080	0.062	0	128222	1.82	M
24 Bis(2-chloroethyl)ether	93	6.199	6.170	0.029	90	100794	1.82	
25 2-Chlorophenol	128	6.275	6.237	0.038	93	96867	1.62	
26 1,3-Dichlorobenzene	146	6.475	6.451	0.024	96	115435	1.55	
27 1,4-Dichlorobenzene	146	6.589	6.565	0.024	58	132603	1.79	
28 Benzyl alcohol	108		6.774					19
29 1,2-Dichlorobenzene	146	6.812	6.784	0.028	83	115601	1.67	
31 2-Methylphenol	108	7.012	6.965	0.047	0	59841	1.19	M
32 2,2'-oxybis[1-chloropropane]	45	7.003	6.979	0.024	71	144423	1.60	
33 Acetophenone	105	7.179	7.155	0.024	97	990928	11.6	
34 N-Nitrosodi-n-propylamine	70	7.188	7.164	0.024	60	80588	1.87	
36 4-Methylphenol	108	7.255	7.212	0.043	0	189952	3.73	M
37 Hexachloroethane	117	7.298	7.274	0.024	89	43178	1.42	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
38 Nitrobenzene	77	7.431	7.402	0.029	79	122926	1.87	
40 Isophorone	82	7.792	7.764	0.028	73	187662	1.73	
41 2-Nitrophenol	139	7.916	7.873	0.043	86	42689	1.43	
43 2,4-Dimethylphenol	107	8.049	7.987	0.062	0	127602	2.26	M
42 o,o',o''-Triethylphosphorothioat	198	8.101	8.055	0.046	83	93472	0	
45 Bis(2-chloroethoxy)methane	93	8.154	8.111	0.042	93	110231	1.72	
44 Benzoic acid	105	8.154	8.168	-0.015	74	429	0.0195	
47 2,4-Dichlorophenol	162	8.334	8.268	0.066	0	79315	1.73	M
48 1,2,4-Trichlorobenzene	180	8.382	8.348	0.034	89	103453	1.83	
49 Naphthalene	128	8.496	8.458	0.038	79	324172	1.73	
51 4-Chloroaniline	127	8.643	8.586	0.057	1	74738	1.10	M
52 Hexachlorobutadiene	225	8.686	8.653	0.033	71	52199	1.69	
54 Caprolactam	113	9.171	9.114	0.057	46	147739	8.83	M
55 4-Chloro-3-methylphenol	107	9.628	9.371	0.257	1	94511	1.86	M
56 2-Methylnaphthalene	142	9.547	9.495	0.052	74	220054	1.68	
57 1-Methylnaphthalene	142	9.685	9.637	0.048	87	788176	6.52	
58 Hexachlorocyclopentadiene	237	9.775	9.728	0.047	49	23262	1.39	
59 1,2,4,5-Tetrachlorobenzene	216	9.799	9.747	0.052	87	164629	3.42	
60 2,4,6-Trichlorophenol	196	10.037	9.951	0.086	78	38971	1.31	M
61 2,4,5-Trichlorophenol	196	10.179	10.037	0.142	77	43304	1.51	M
62 1,1'-Biphenyl	154	10.255	10.198	0.057	96	1256640	8.46	
63 2-Chloronaphthalene	162	10.303	10.241	0.062	88	431755	3.44	
64 Phenyl ether	170	10.422	10.360	0.062	95	519902	6.44	
65 2-Nitroaniline	65	10.503	10.417	0.086	67	48943	1.44	
66 1,4-Dinitrobenzene	75	10.712	10.641	0.071	85	127365	0	
67 Dimethyl phthalate	163	10.764	10.693	0.071	90	234099	1.76	
68 2,6-Dinitrotoluene	165	10.850	10.783	0.067	73	52008	0.8630	
69 Acenaphthylene	152	10.893	10.821	0.072	84	328345	1.83	
70 3-Nitroaniline	138	11.159	11.045	0.114	1	44334	1.48	M
71 Acenaphthene	153	11.150	11.083	0.067	88	204429	1.63	
72 2,4-Dinitrophenol	184	11.354	11.211	0.143	1	13587	1.51	M
73 Dibenzofuran	168	11.421	11.349	0.072	99	286739	1.88	
74 2,4-Dinitrotoluene	165	11.487	11.387	0.100	91	61848	1.61	M
75 4-Nitrophenol	109		11.421					
76 2,3,4,6-Tetrachlorophenol	232	11.663	11.563	0.100	71	45626	1.98	
78 Diethyl phthalate	149	11.811	11.744	0.067	90	247996	1.70	
77 Thionazin	97	11.920	11.826	0.094	54	97240	0	
79 Fluorene	166	11.920	11.853	0.067	88	227820	1.63	
80 4-Chlorophenyl phenyl ether	204	11.939	11.868	0.071	86	112003	1.81	
81 4-Nitroaniline	138	12.105	11.953	0.152	41	40309	1.57	M
82 4,6-Dinitro-2-methylphenol	198	12.086	11.982	0.104	31	29909	2.26	M
84 Diphenylamine	169	12.115	12.048	0.067	97	576586	3.00	
83 N-Nitrosodiphenylamine	169	12.115	12.048	0.067	97	576586	3.00	
16 1,2-Diphenylhydrazine	77	12.153	12.086	0.067	96	712958	5.75	
85 Azobenzene	77	12.153	12.086	0.067	95	712958	5.76	
86 Benzophenone	105	12.177	12.110	0.067	89	802515	6.57	M
87 Sulfotepp	322	12.348	12.297	0.051	77	75633	0	
88 Phorate	75	12.500	12.454	0.046	84	254150	0	
89 4-Bromophenyl phenyl ether	248	12.586	12.519	0.067	78	54712	1.77	
91 Hexachlorobenzene	284	12.643	12.581	0.062	60	54762	1.73	
90 Dimethoate	87	12.738	12.668	0.070	82	136002	0	
93 Atrazine	200	12.823	12.771	0.052	88	270880	7.01	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
95 Pentachloronitrobenzene	237	12.909	12.852	0.057	49	60324	3.68	
94 Pentachlorophenol	266	12.919	12.852	0.067	0	15639	1.82	M
97 Phenanthrene	178	13.142	13.080	0.062	83	340159	1.85	
96 Disulfoton	88	13.142	13.120	0.022	78	205453	0	
98 Anthracene	178	13.209	13.142	0.067	95	349728	1.87	
100 Methyl parathion	109	13.570	13.543	0.027	81	128359	0	
102 Di-n-butyl phthalate	149	13.794	13.741	0.053	96	388281	1.93	
103 Ethyl Parathion	97	13.979	14.003	-0.024	74	90880	0	
104 Fluoranthene	202	14.421	14.364	0.057	93	322753	1.77	
105 Benzidine	184	14.616	14.540	0.076	80	125125	1.77	M
106 Pyrene	202	14.645	14.588	0.057	99	336259	1.96	
107 Famphur	218	15.192	15.154	0.038	78	187387	0	
108 Butyl benzyl phthalate	149	15.235	15.196	0.039	86	169259	1.78	
109 3,3'-Dichlorobenzidine	252	15.729	15.691	0.038	75	87952	1.53	M
110 Bis(2-ethylhexyl) phthalate	149	15.720	15.696	0.024	95	230886	1.77	
111 Benzo[a]anthracene	228	15.743	15.705	0.038	76	267251	1.94	
112 Chrysene	228	15.777	15.743	0.034	86	291886	1.86	
113 Di-n-octyl phthalate	149	16.247	16.238	0.009	96	357927	1.74	
114 Benzo[b]fluoranthene	252	16.671	16.647	0.024	86	231570	1.58	
115 Benzo[k]fluoranthene	252	16.695	16.666	0.028	82	339227	2.25	
116 Benzo[a]pyrene	252	16.980	16.951	0.029	61	223784	1.58	
117 Indeno[1,2,3-cd]pyrene	276	18.126	18.093	0.033	91	309569	2.05	M
118 Dibenz(a,h)anthracene	278	18.131	18.093	0.038	48	263255	2.06	M
119 Benzo[g,h,i]perylene	276	18.440	18.411	0.029	89	242300	1.92	M
S 121 3-Methylphenol	1		0.000					

QC Flag Legend

Processing Flags
1 - Missing Peaks
9 - Failed A Reference Spectral Test

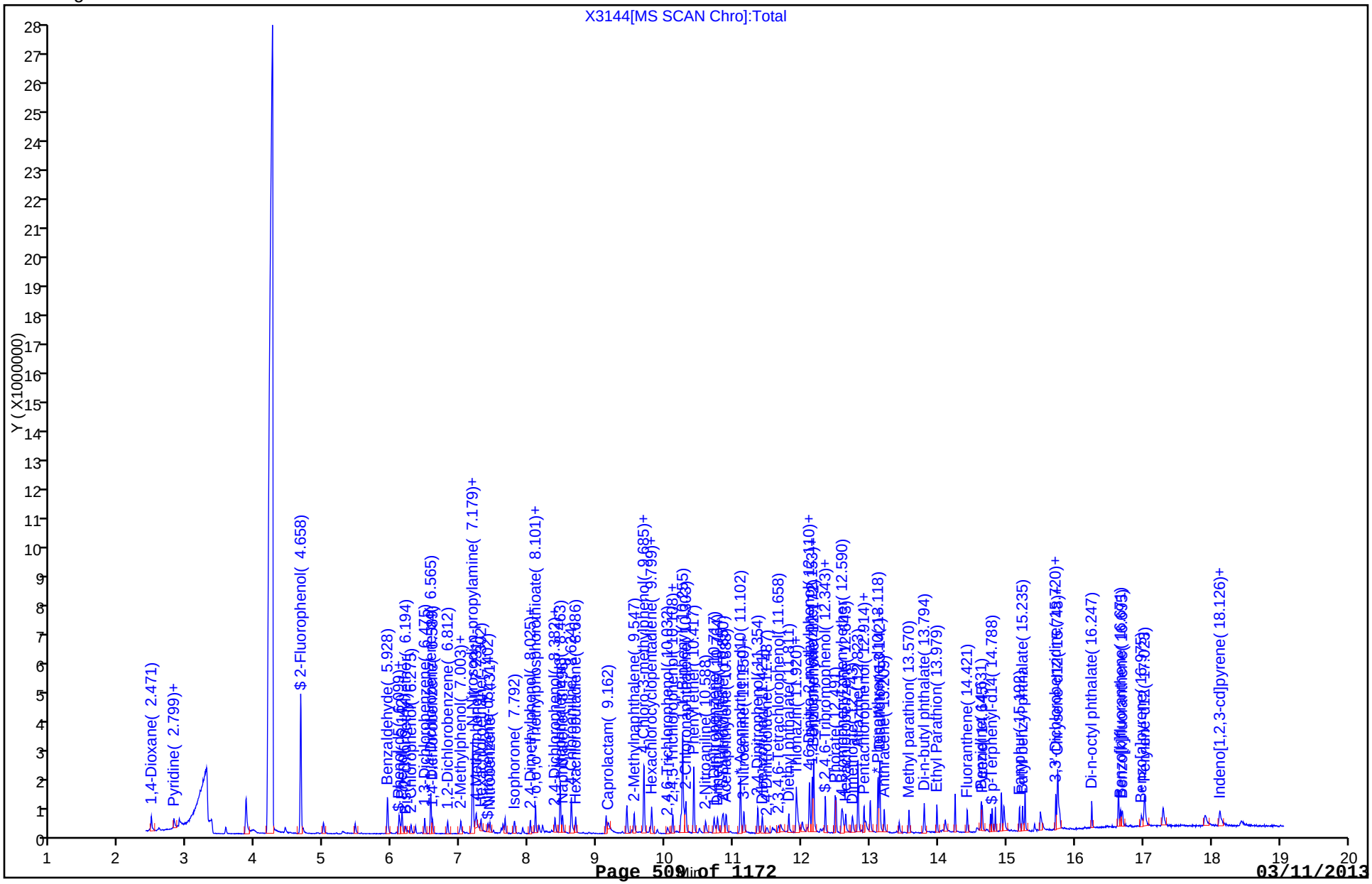
Review Flags
M - Manually Integrated

Report Date: 11-Mar-2013 09:26:20 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3144.D		
Injection Date:	18-Dec-2012 17:44:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	15
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

Y Scaling:



Report Date: 11-Mar-2013 09:26:21 Chrom Revision: 2.0 01-Feb-2013 10:03:10

Manual Integration/User Assign Peak Report

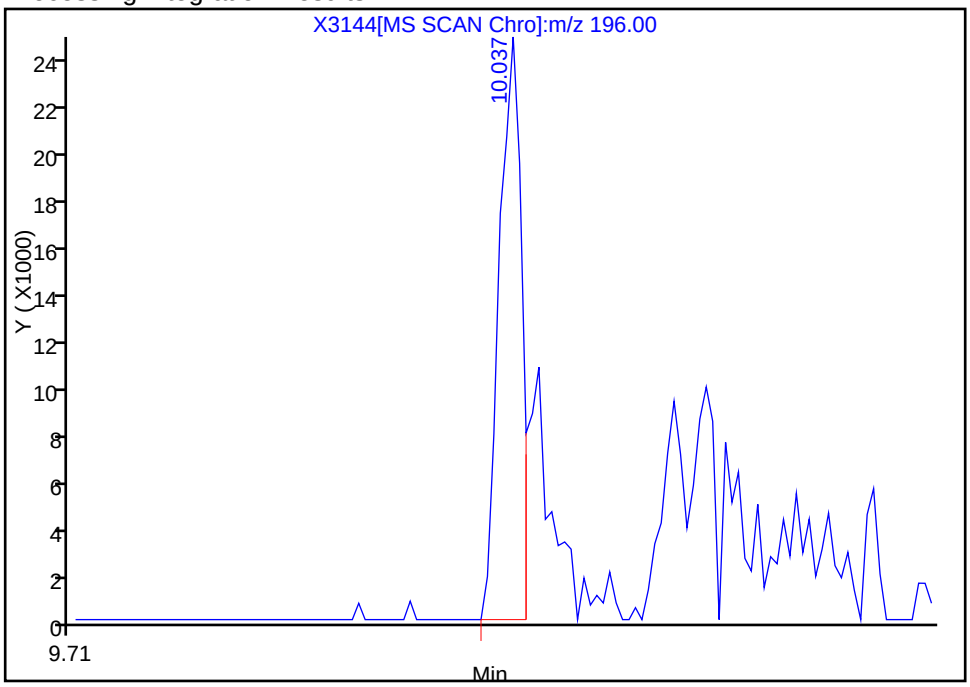
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3144.D		
Injection Date:	18-Dec-2012 17:44:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	15
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: 10.04

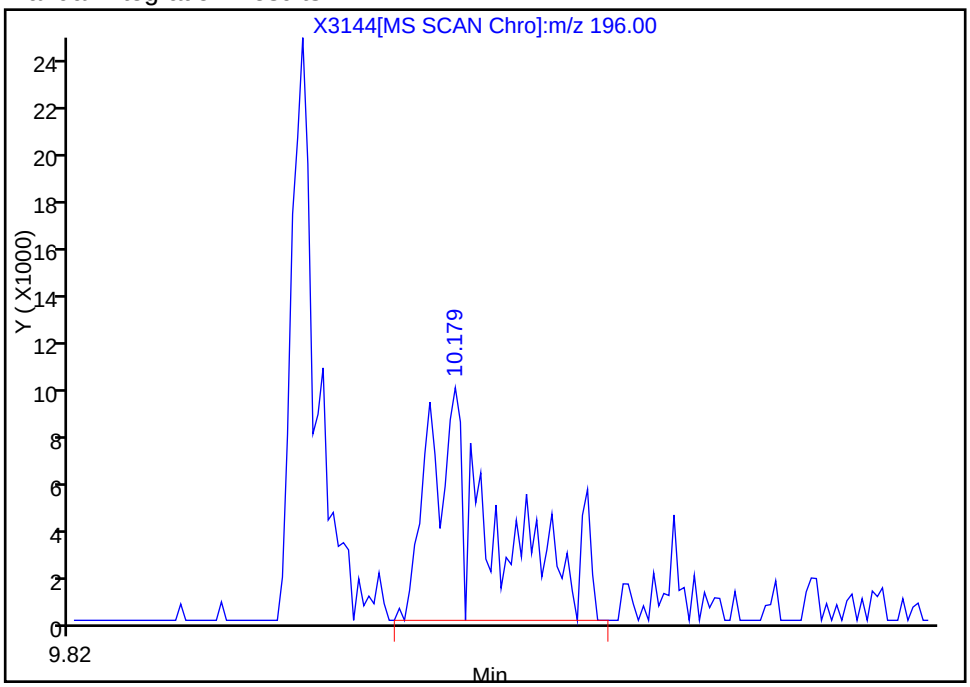
Processing Integration Results

RT: 10.04
Response: 28266
Amount: 0.929502



Manual Integration Results

RT: 10.18
Response: 43304
Amount: 1.508983



Reviewer: mckernar, 19-Dec-2012 08:53:35
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

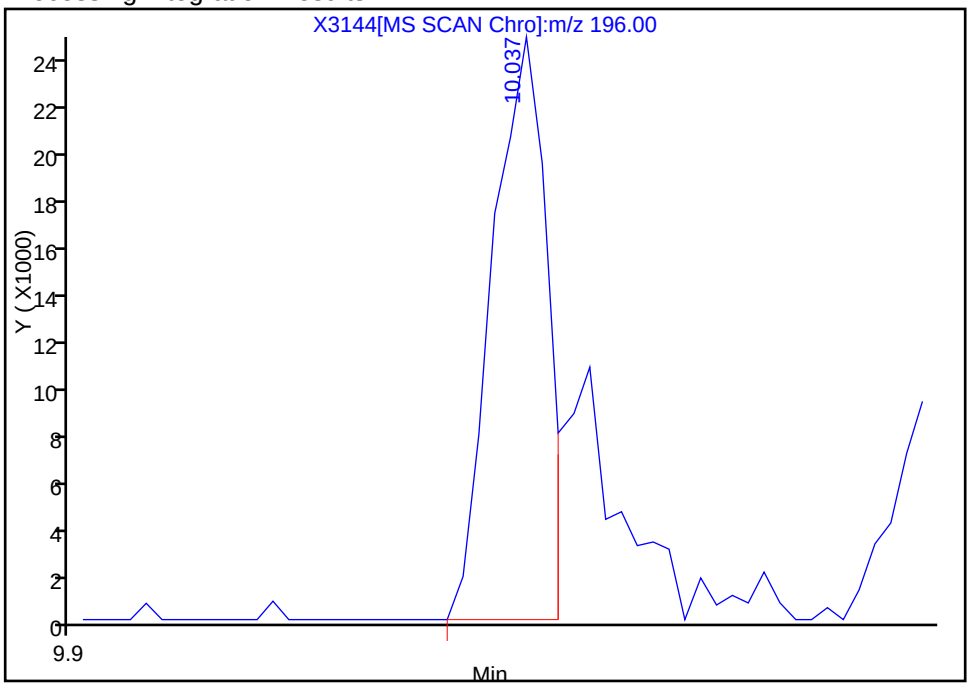
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3144.D		
Injection Date:	18-Dec-2012 17:44:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	15
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: 9.95

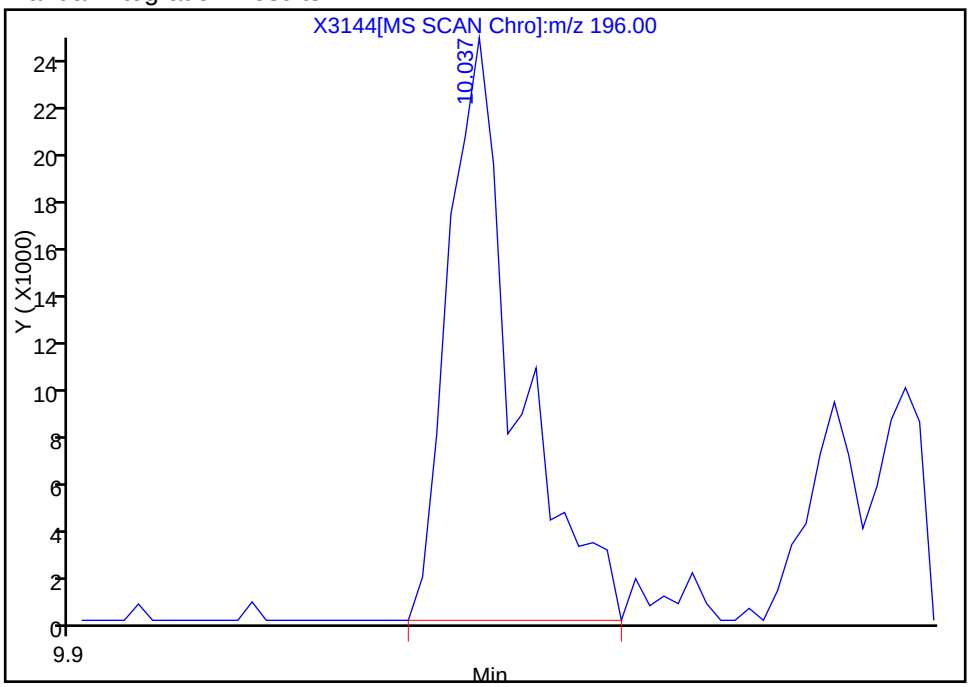
Processing Integration Results

RT: 10.04
Response: 28266
Amount: 0.912585



Manual Integration Results

RT: 10.04
Response: 38971
Amount: 1.313656



Reviewer: mckernar, 19-Dec-2012 08:53:35
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 11-Mar-2013 09:26:20 Chrom Revision: 2.0 01-Feb-2013 10:03:10

Manual Integration/User Assign Peak Report

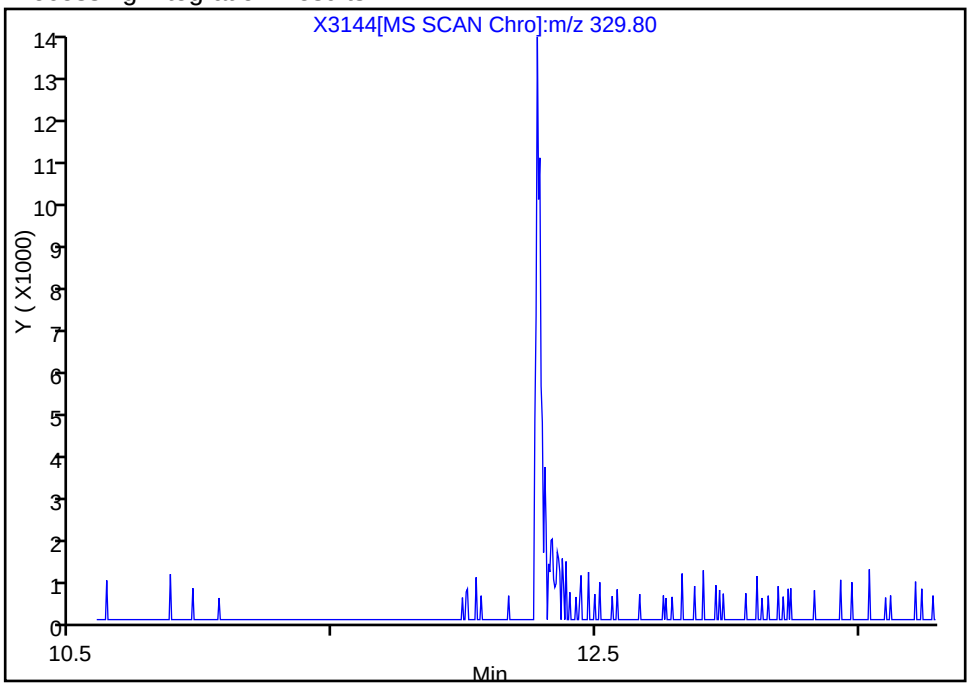
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3144.D		
Injection Date:	18-Dec-2012 17:44:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	15
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: 12.20

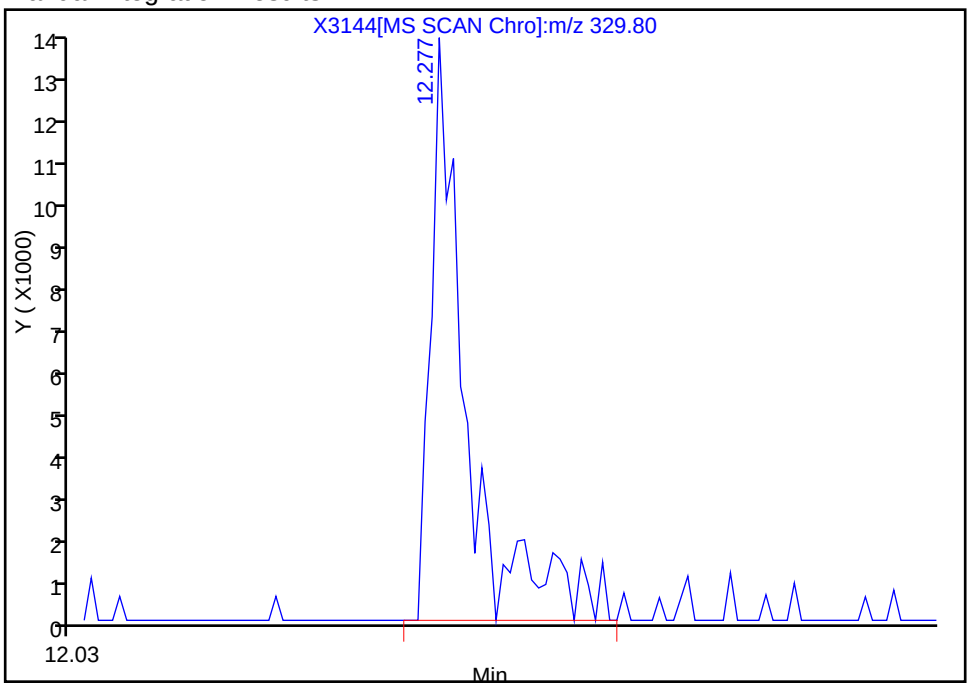
Processing Integration Results

Not Detected
Expected RT: 12.20



Manual Integration Results

RT: 12.28
Response: 23062
Amount: 1.518381



Reviewer: mckernar, 19-Dec-2012 08:53:35
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

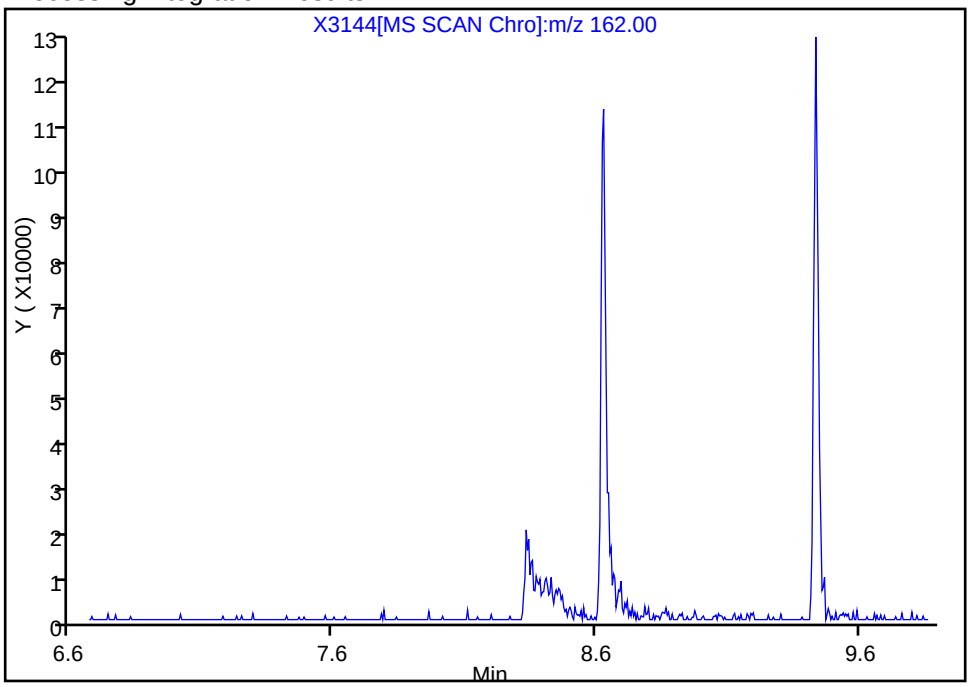
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3144.D		
Injection Date:	18-Dec-2012 17:44:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	15
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: 8.27

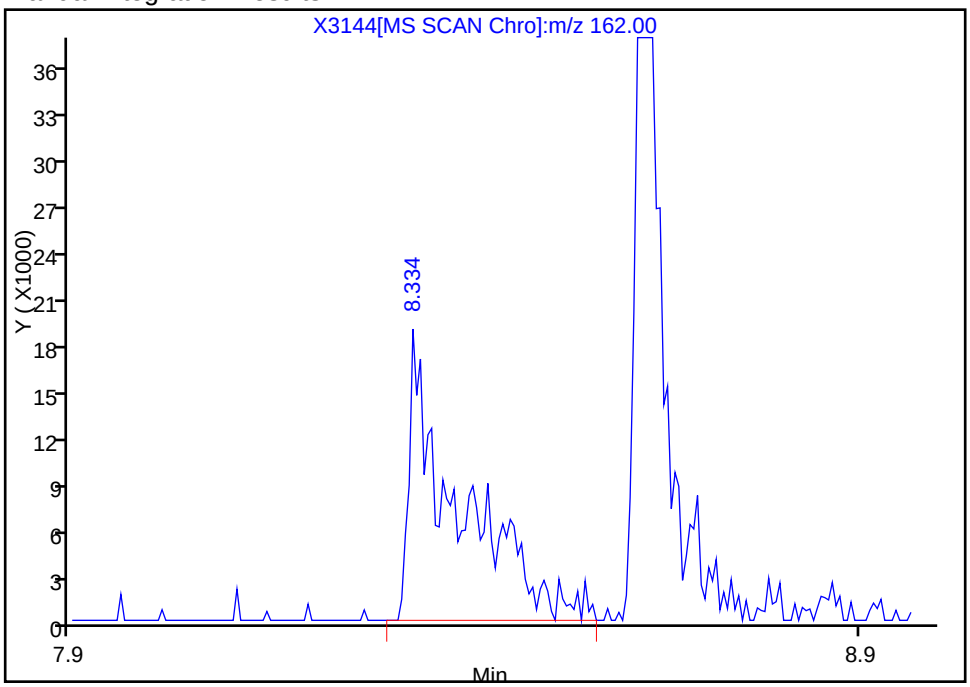
Processing Integration Results

Not Detected
Expected RT: 8.27



Manual Integration Results

RT: 8.33
Response: 79315
Amount: 1.725241



Reviewer: mckernar, 19-Dec-2012 08:53:35
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

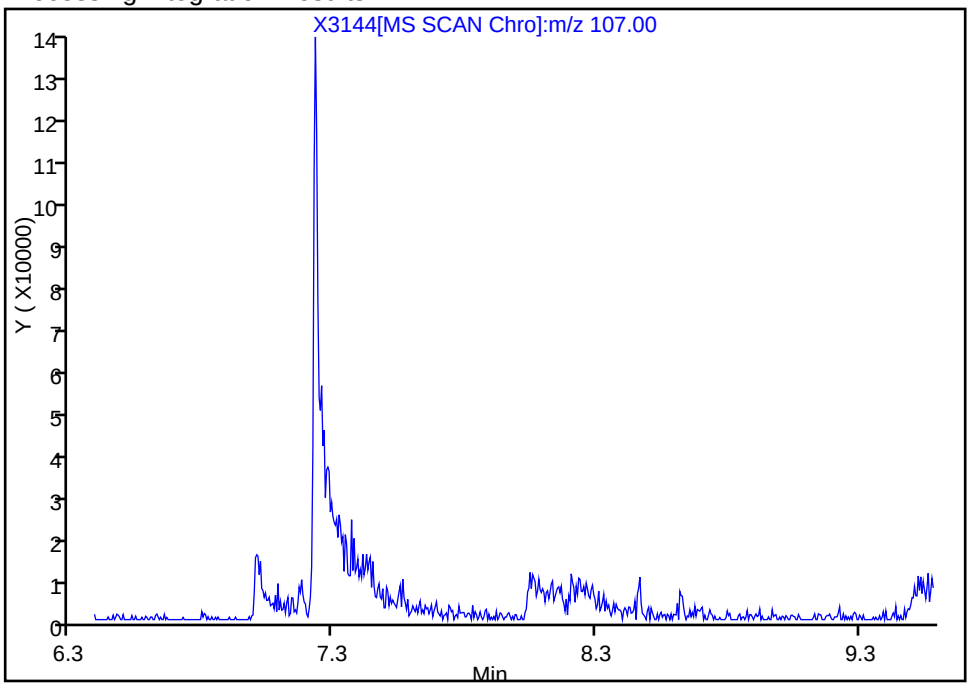
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3144.D		
Injection Date:	18-Dec-2012 17:44:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	15
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: 7.99

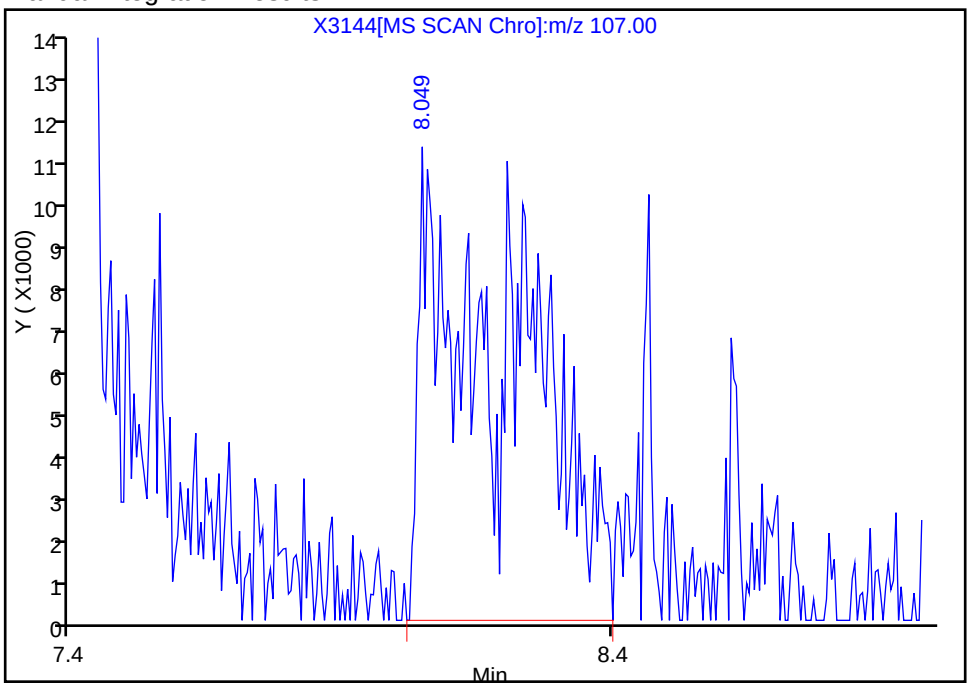
Processing Integration Results

Not Detected
Expected RT: 7.99



Manual Integration Results

RT: 8.05
Response: 127602
Amount: 2.258612



Reviewer: mckernar, 19-Dec-2012 08:53:35
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

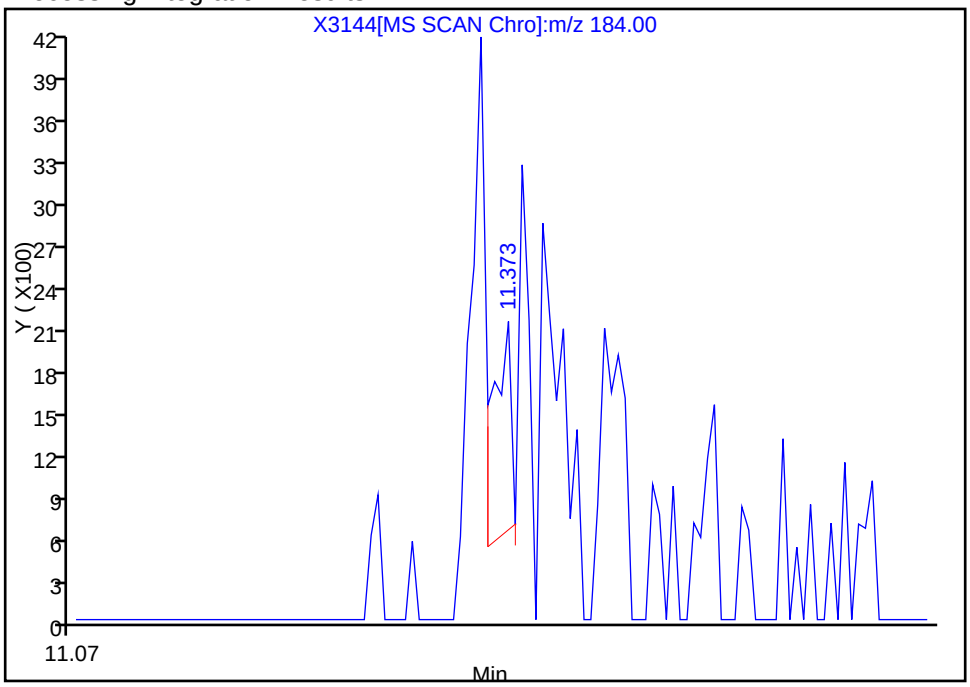
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3144.D		
Injection Date:	18-Dec-2012 17:44:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	15
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: 11.21

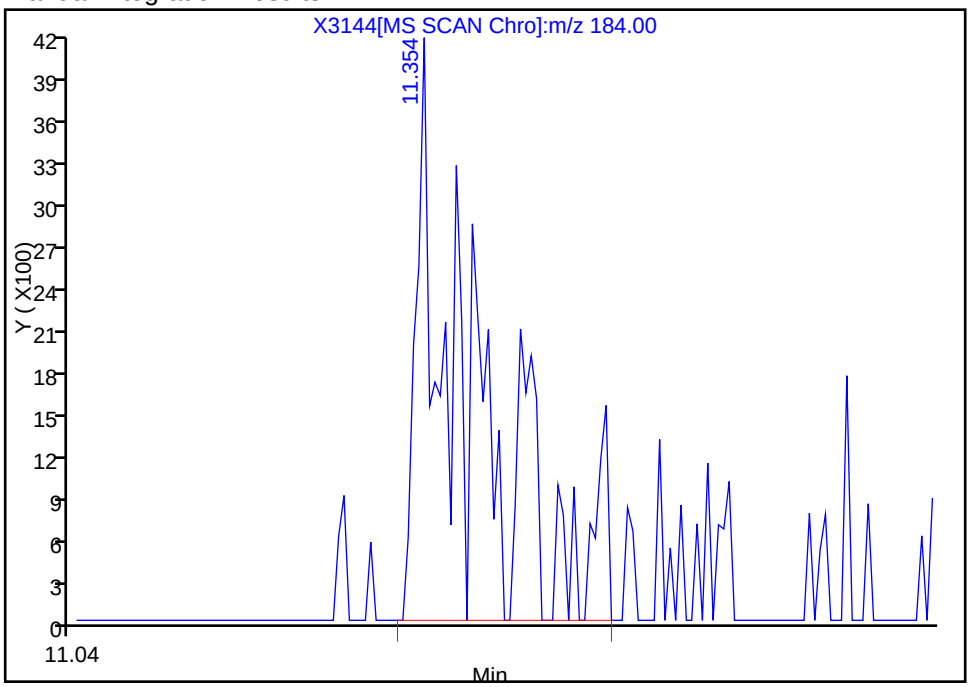
Processing Integration Results

RT: 11.37
Response: 1323
Amount: 0.111722



Manual Integration Results

RT: 11.35
Response: 13587
Amount: 1.508471



Reviewer: mckernar, 19-Dec-2012 08:53:35
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

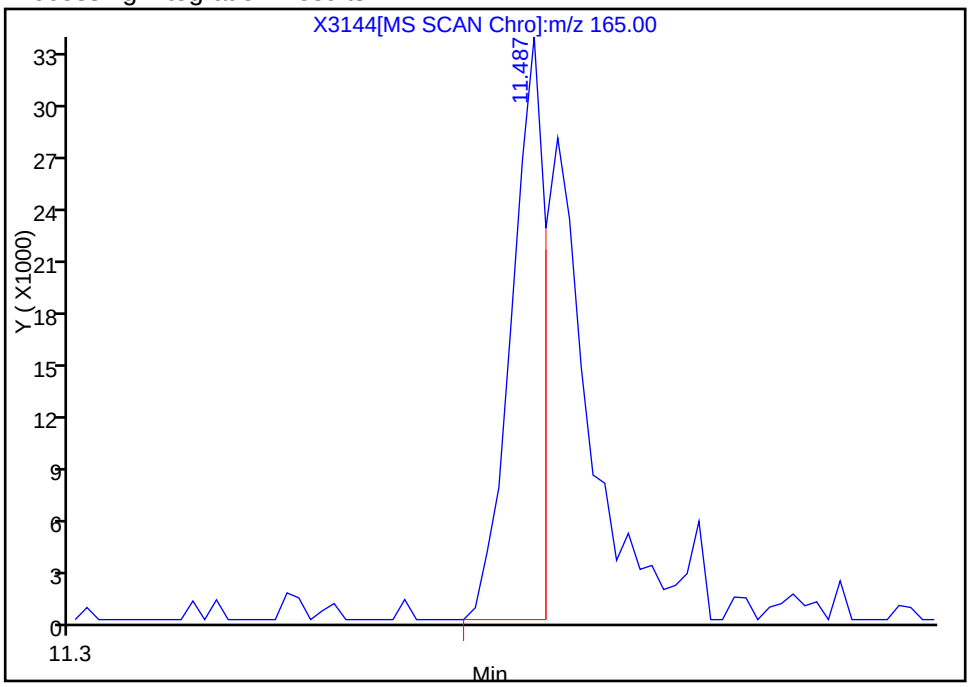
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3144.D		
Injection Date:	18-Dec-2012 17:44:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	15
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: 11.39

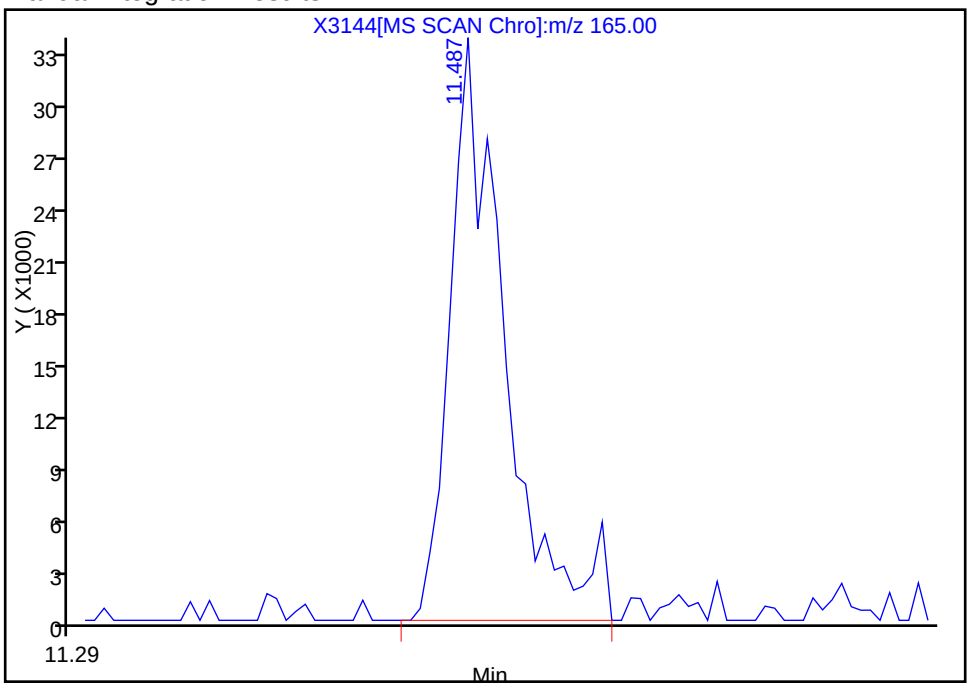
Processing Integration Results

RT: 11.49
Response: 31412
Amount: 0.726404



Manual Integration Results

RT: 11.49
Response: 61848
Amount: 1.607856



Reviewer: mckernar, 19-Dec-2012 08:53:35
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

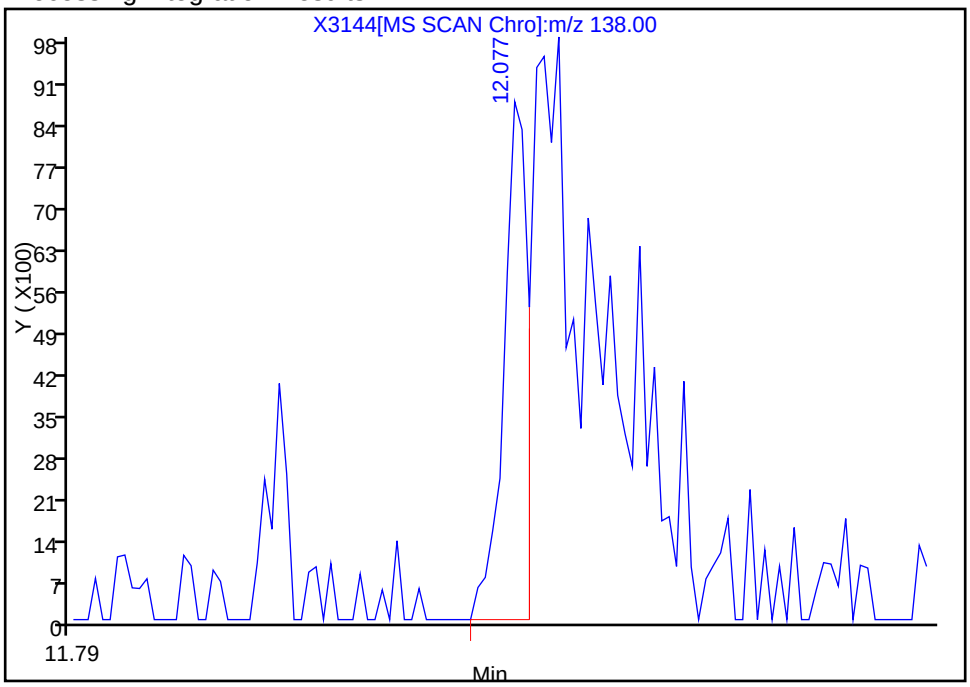
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3144.D		
Injection Date:	18-Dec-2012 17:44:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	15
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: 11.95

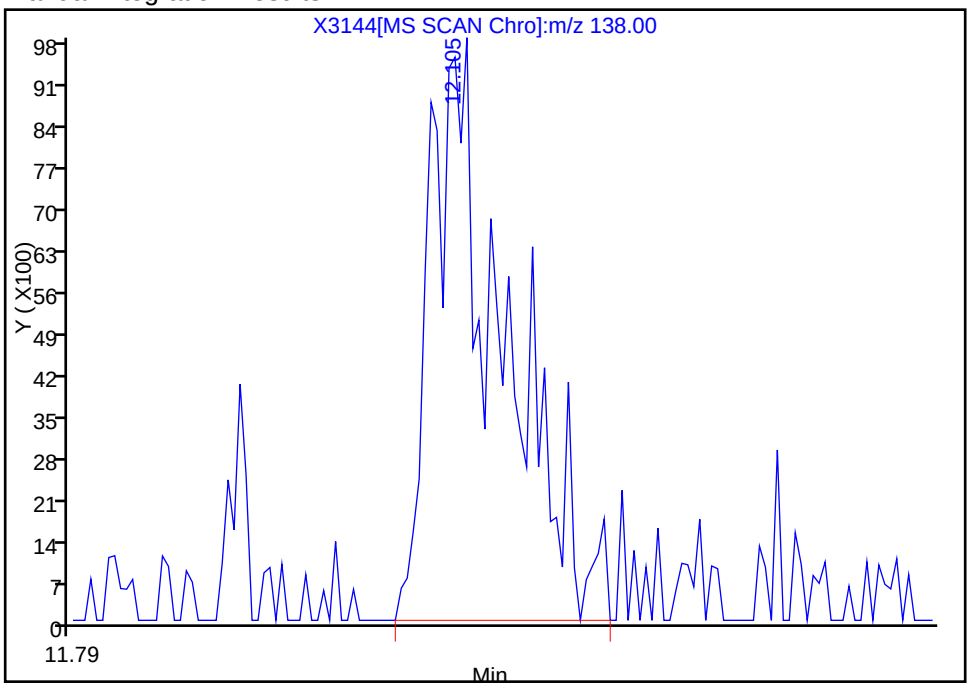
Processing Integration Results

RT: 12.08
Response: 9514
Amount: 0.286231



Manual Integration Results

RT: 12.11
Response: 40309
Amount: 1.569911



Reviewer: mckernar, 19-Dec-2012 08:53:35
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 11-Mar-2013 09:26:20 Chrom Revision: 2.0 01-Feb-2013 10:03:10

Manual Integration/User Assign Peak Report

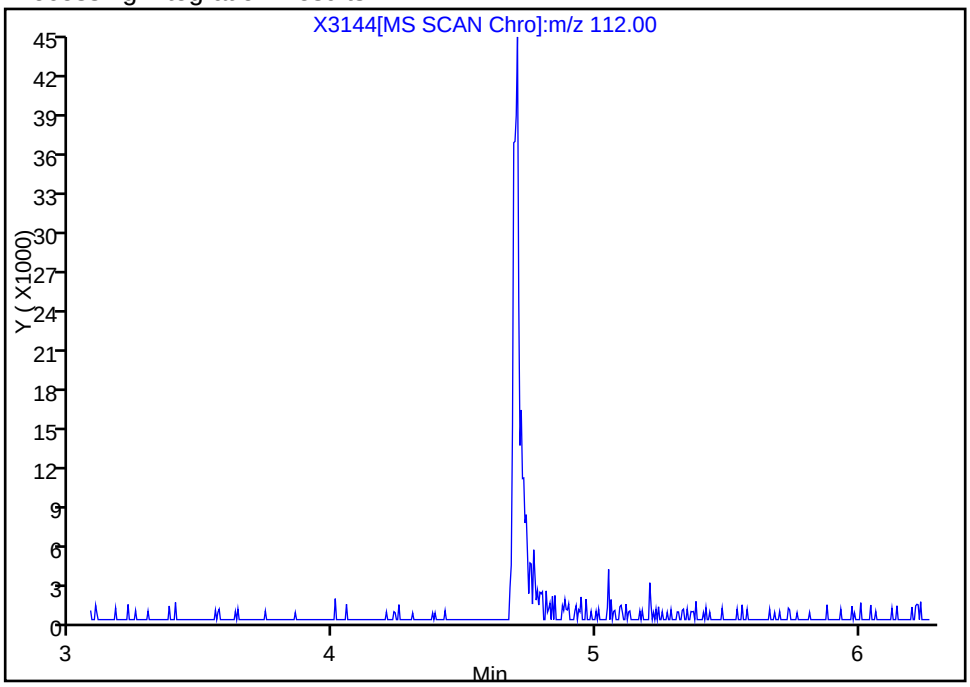
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3144.D		
Injection Date:	18-Dec-2012 17:44:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	15
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: 4.67

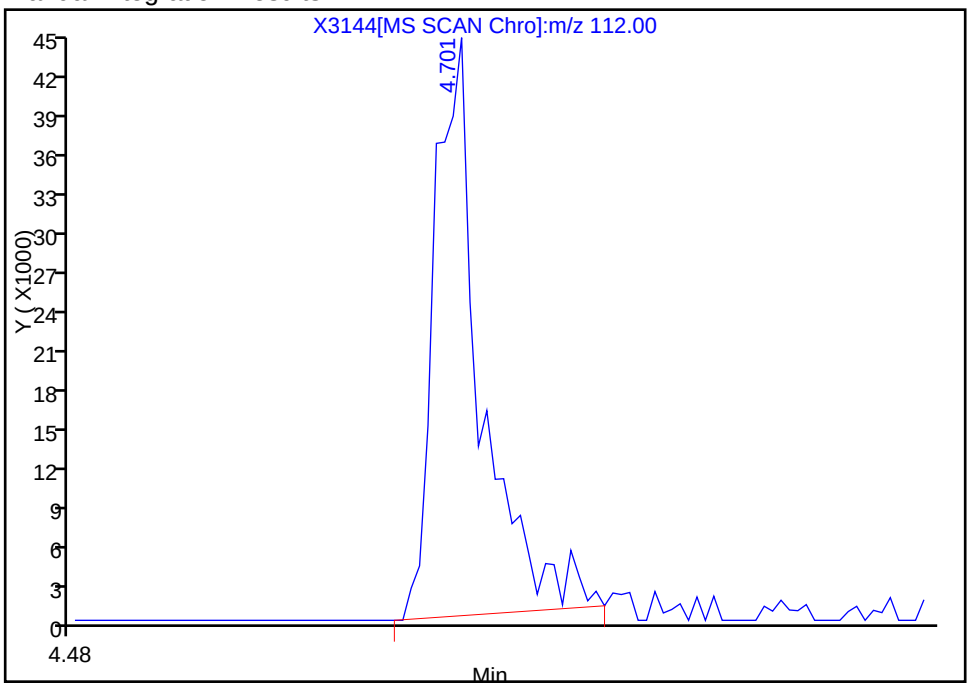
Processing Integration Results

Not Detected
Expected RT: 4.67



Manual Integration Results

RT: 4.70
Response: 80443
Amount: 1.533616



Reviewer: mckernar, 19-Dec-2012 08:53:35
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 11-Mar-2013 09:26:20 Chrom Revision: 2.0 01-Feb-2013 10:03:10

Manual Integration/User Assign Peak Report

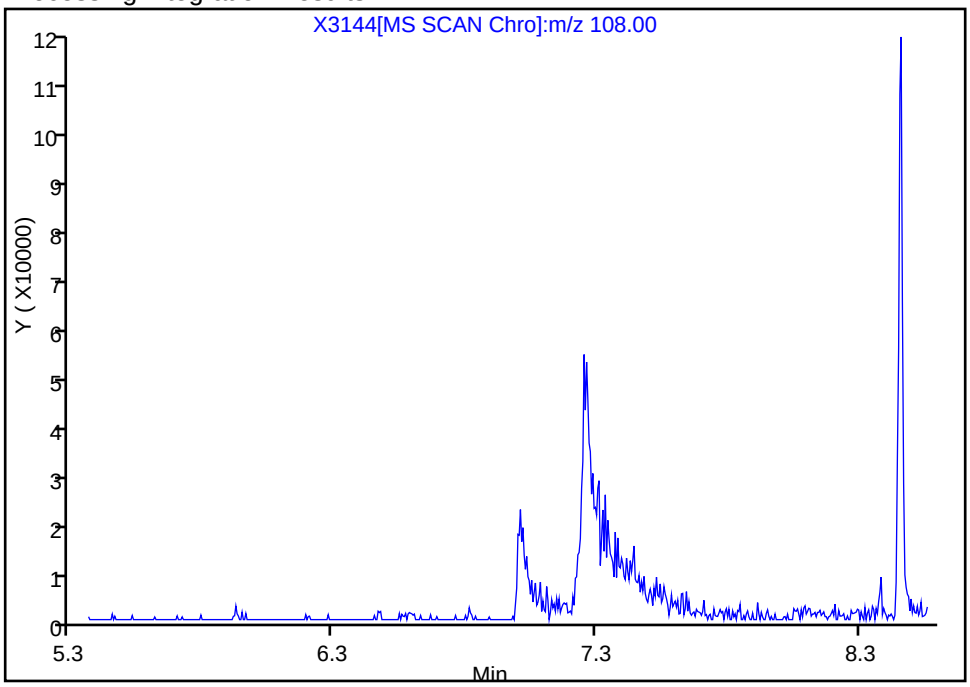
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3144.D		
Injection Date:	18-Dec-2012 17:44:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	15
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: 6.96

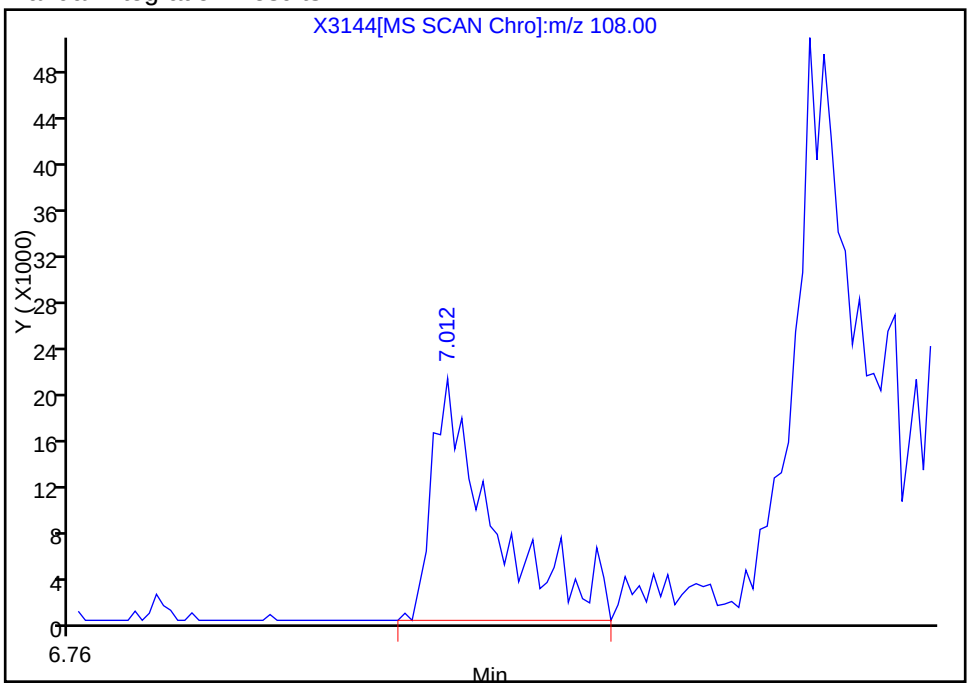
Not Detected
Expected RT: 6.96

Processing Integration Results



Manual Integration Results

RT: 7.01
Response: 59841
Amount: 1.191039



Reviewer: mckernar, 19-Dec-2012 08:53:35
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 11-Mar-2013 09:26:21 Chrom Revision: 2.0 01-Feb-2013 10:03:10

Manual Integration/User Assign Peak Report

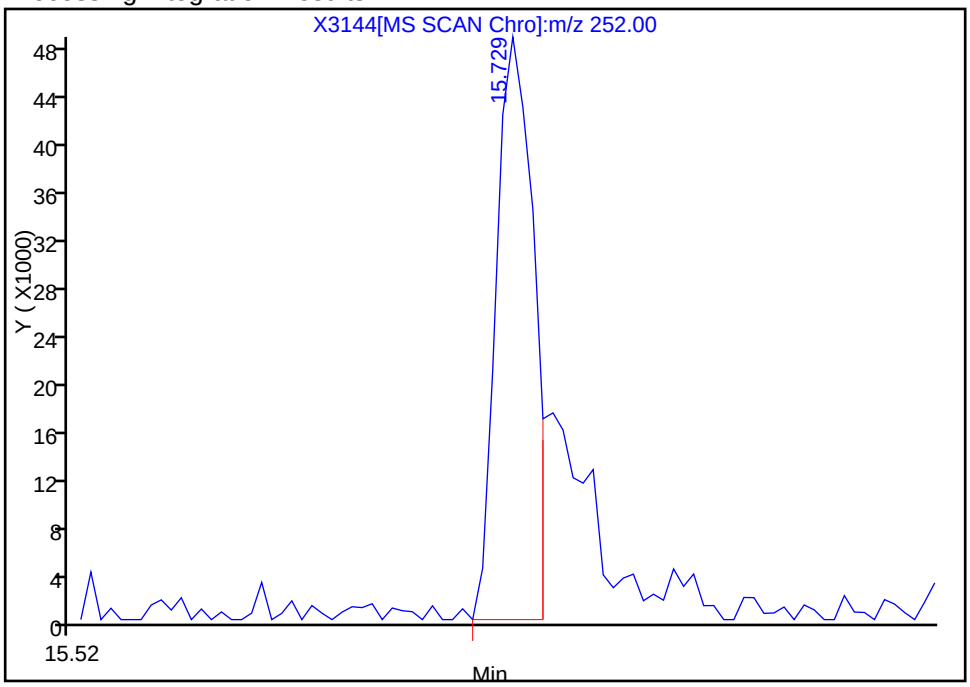
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3144.D		
Injection Date:	18-Dec-2012 17:44:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	15
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

109 3,3'-Dichlorobenzidine, Signal: 1, m/z: 252.0 Type: quant, RT: 15.69

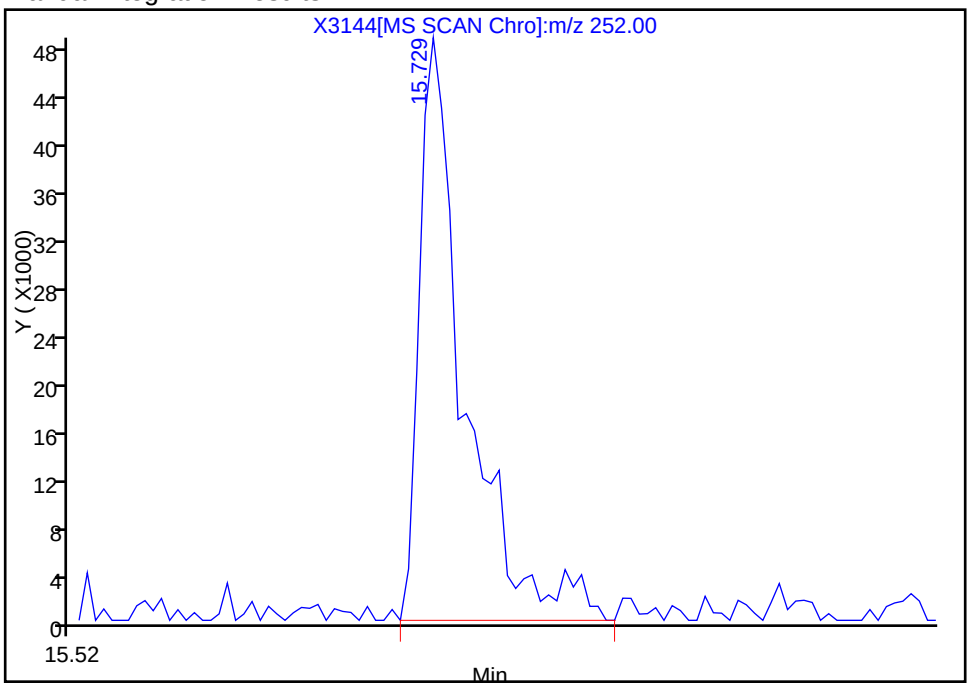
Processing Integration Results

RT: 15.73
Response: 59354
Amount: 0.935581



Manual Integration Results

RT: 15.73
Response: 87952
Amount: 1.527480



Reviewer: mckernar, 19-Dec-2012 08:53:35
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

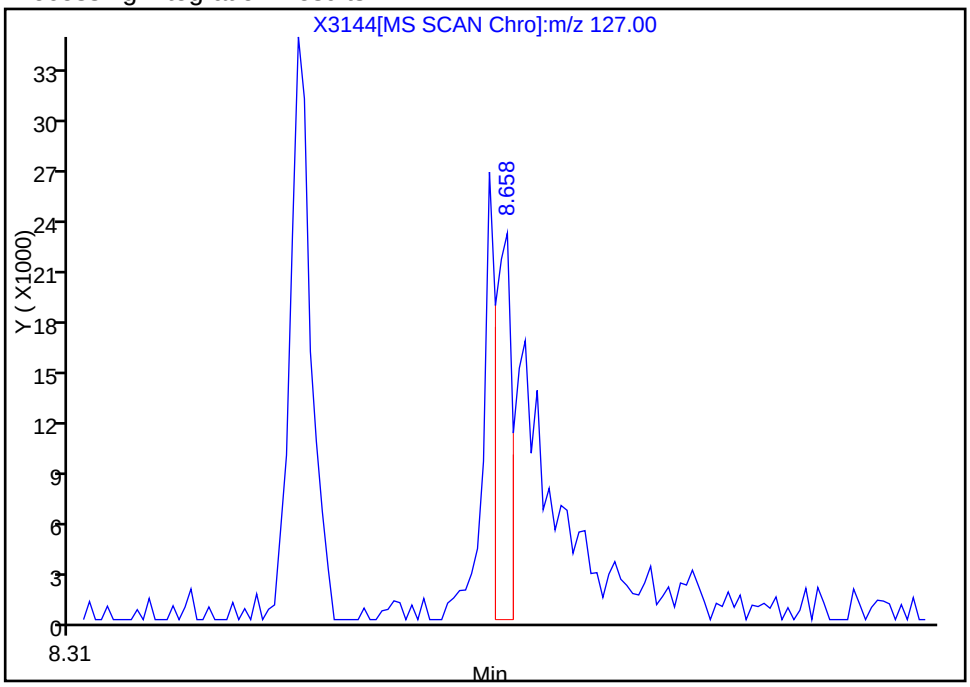
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3144.D		
Injection Date:	18-Dec-2012 17:44:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	15
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: 8.59

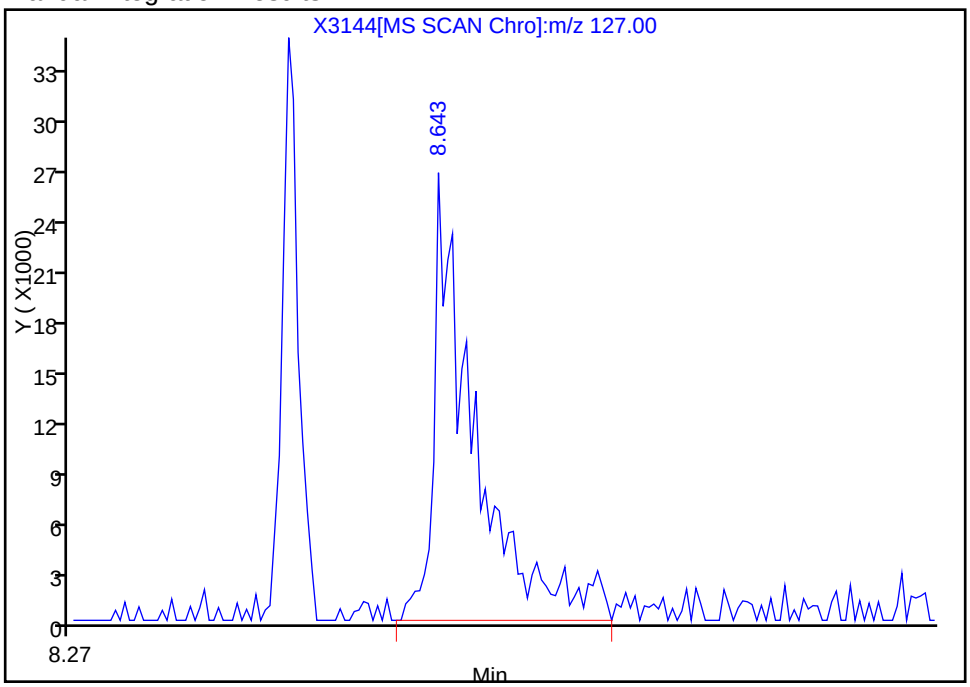
Processing Integration Results

RT: 8.66
Response: 20808
Amount: 0.270049



Manual Integration Results

RT: 8.64
Response: 74738
Amount: 1.102598



Reviewer: mckernar, 19-Dec-2012 08:53:35
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

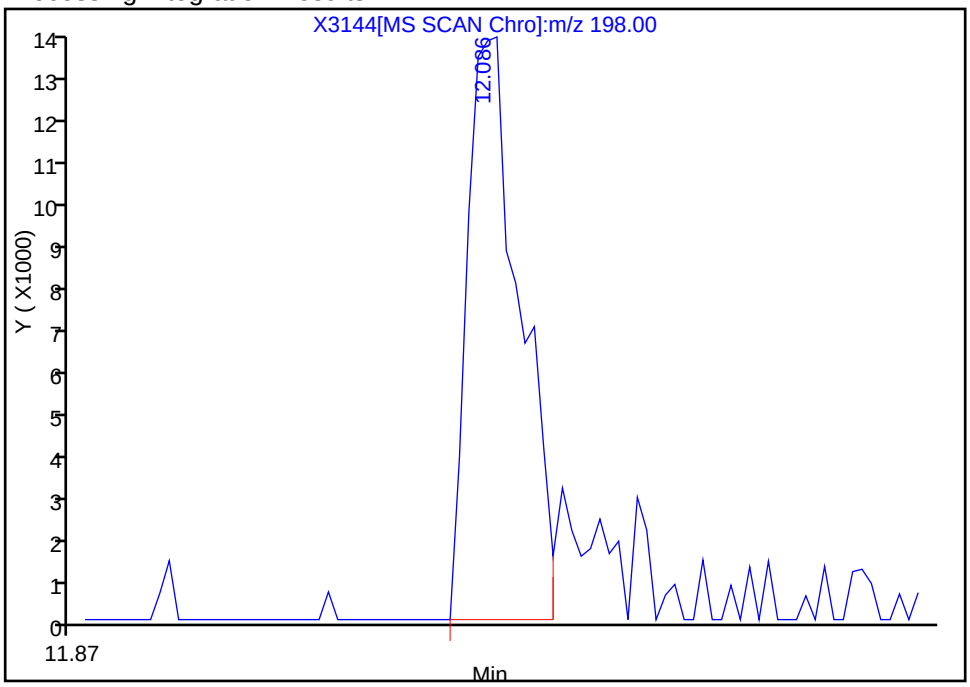
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3144.D		
Injection Date:	18-Dec-2012 17:44:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	15
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: 11.98

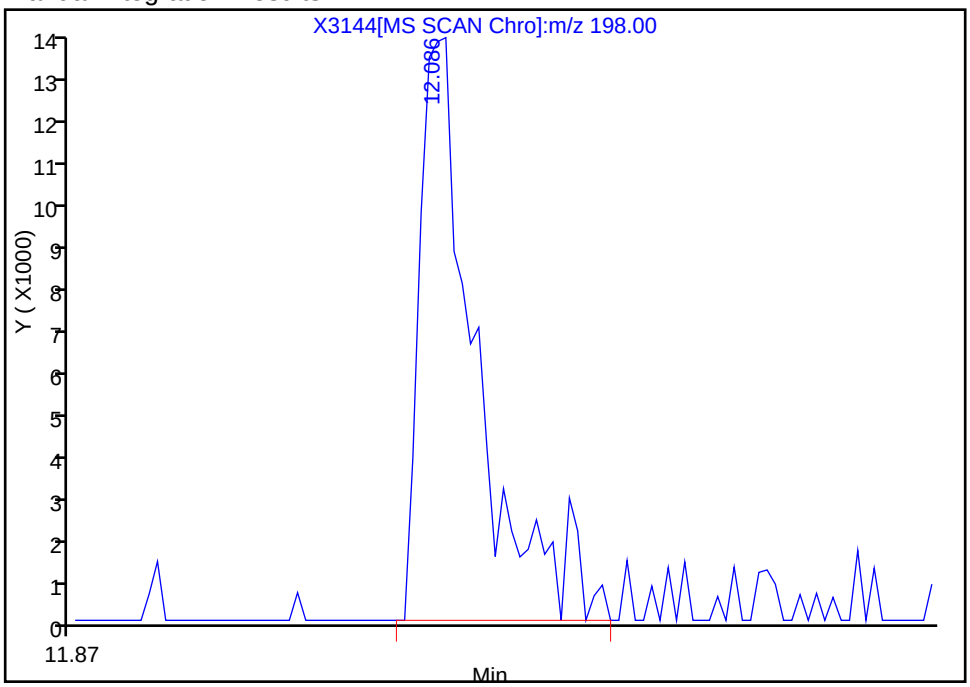
Processing Integration Results

RT: 12.09
Response: 24336
Amount: 1.132382



Manual Integration Results

RT: 12.09
Response: 29909
Amount: 2.256029



Reviewer: mckernar, 19-Dec-2012 08:53:35
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

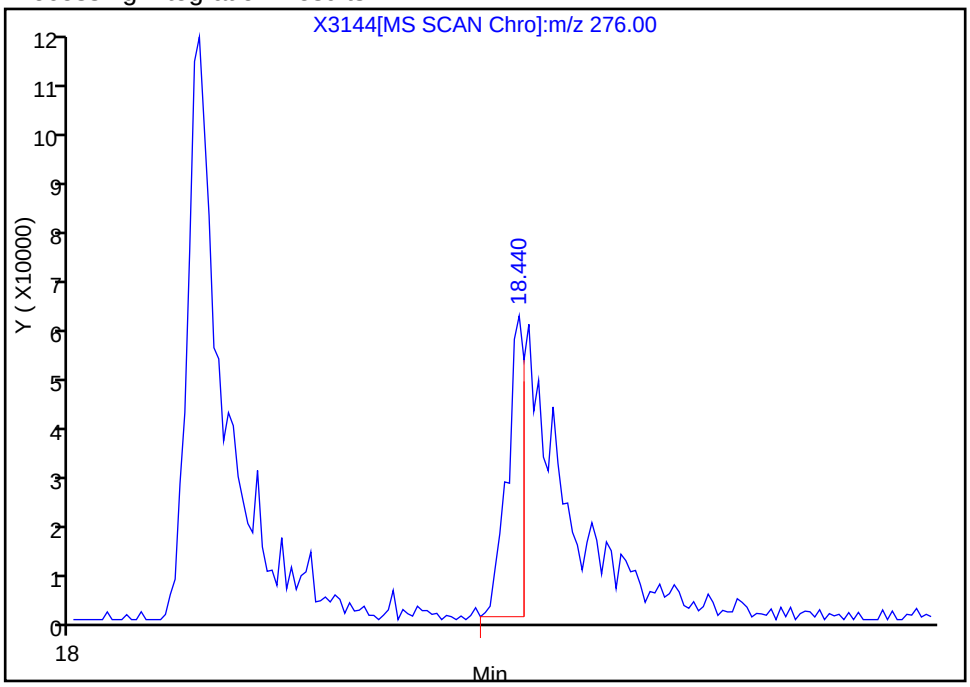
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3144.D		
Injection Date:	18-Dec-2012 17:44:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	15
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: 18.41

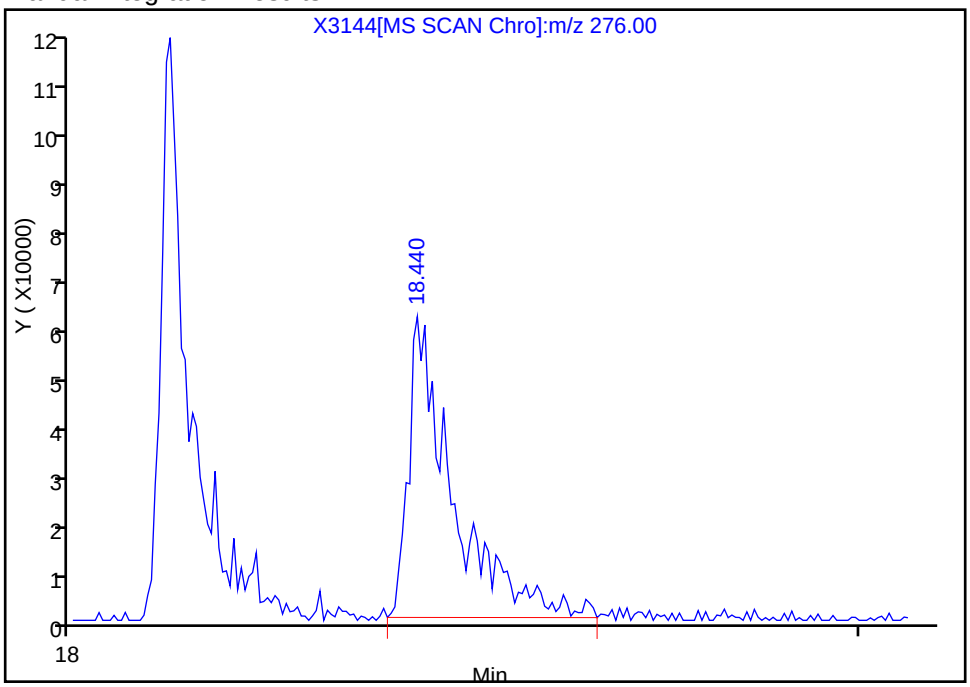
Processing Integration Results

RT: 18.44
Response: 73283
Amount: 0.571336



Manual Integration Results

RT: 18.44
Response: 242300
Amount: 1.924883



Reviewer: mckernar, 19-Dec-2012 08:53:35
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

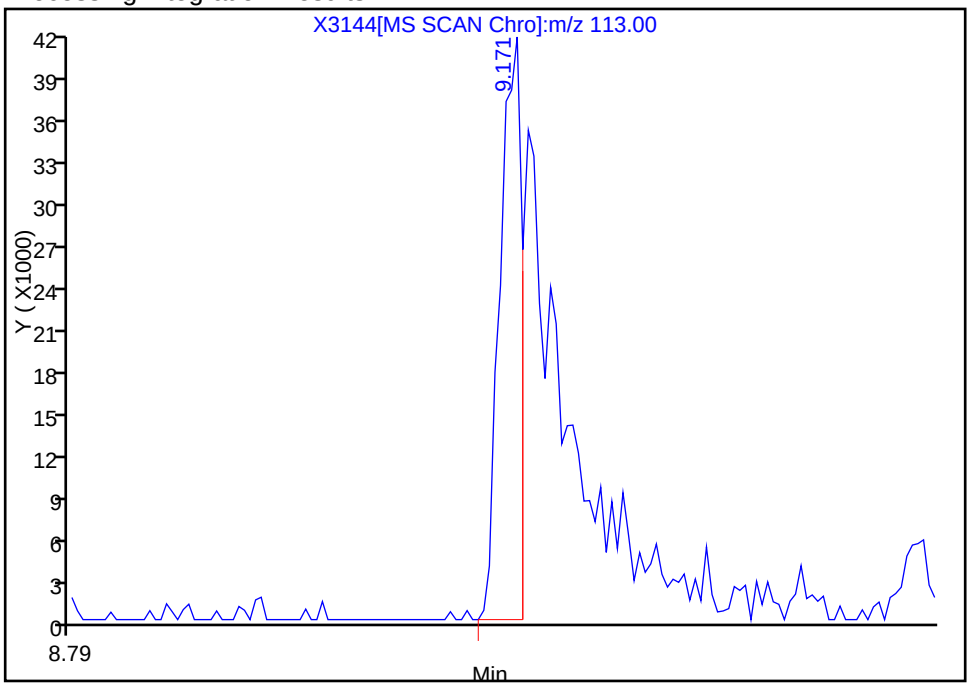
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3144.D		
Injection Date:	18-Dec-2012 17:44:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	15
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: 9.11

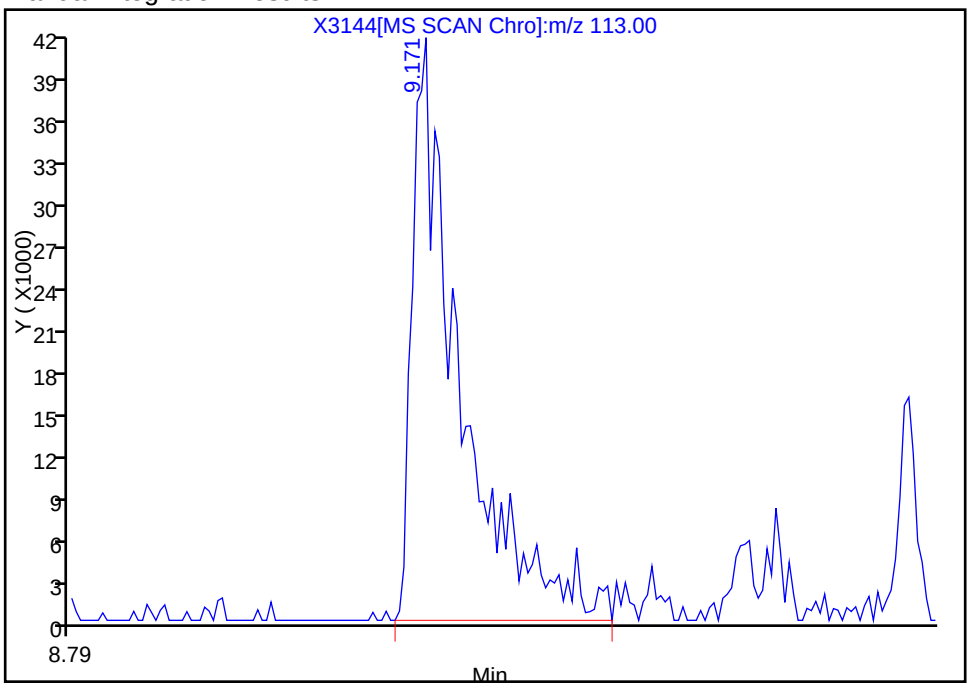
Processing Integration Results

RT: 9.17
Response: 54008
Amount: 3.088159



Manual Integration Results

RT: 9.17
Response: 147739
Amount: 8.829335



Reviewer: mckernar, 19-Dec-2012 08:53:35
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

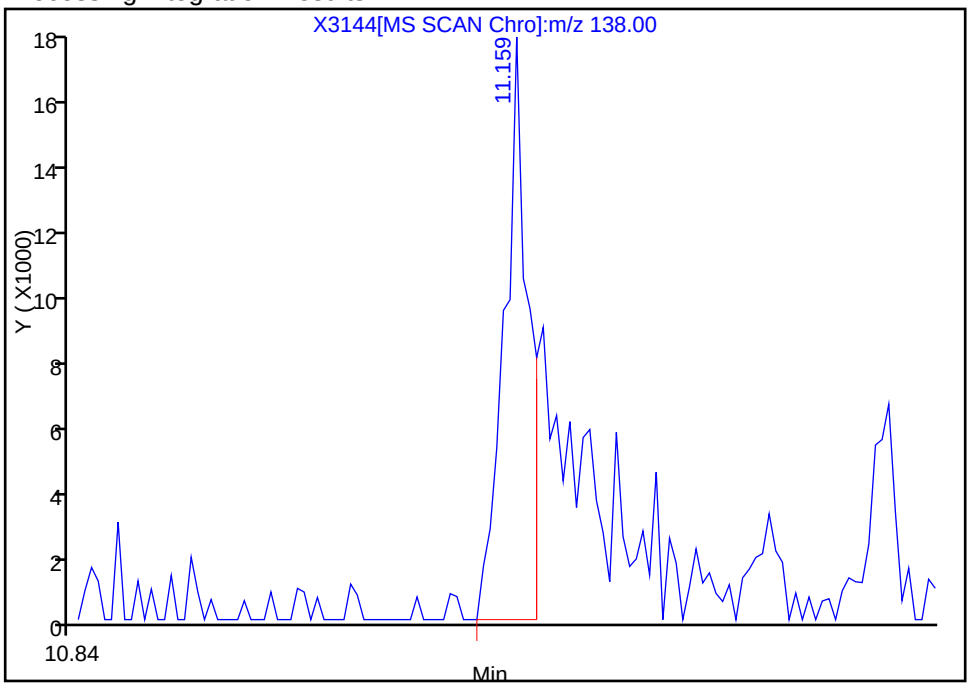
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3144.D		
Injection Date:	18-Dec-2012 17:44:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	15
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: 11.04

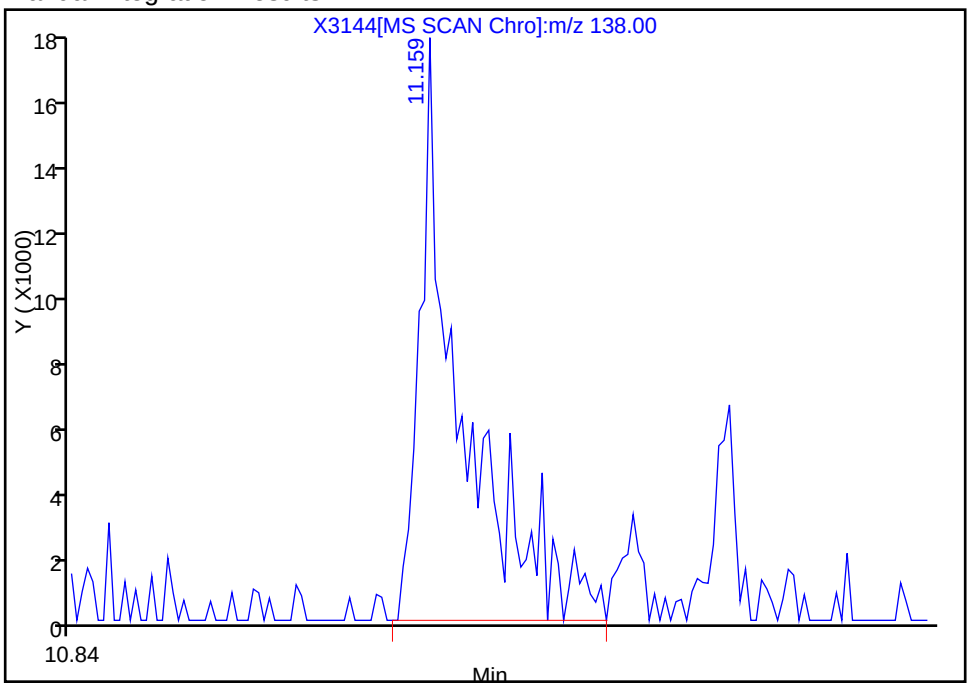
Processing Integration Results

RT: 11.16
Response: 20608
Amount: 0.684324



Manual Integration Results

RT: 11.16
Response: 44334
Amount: 1.481189



Reviewer: mckernar, 19-Dec-2012 08:53:35
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 11-Mar-2013 09:26:21 Chrom Revision: 2.0 01-Feb-2013 10:03:10

Manual Integration/User Assign Peak Report

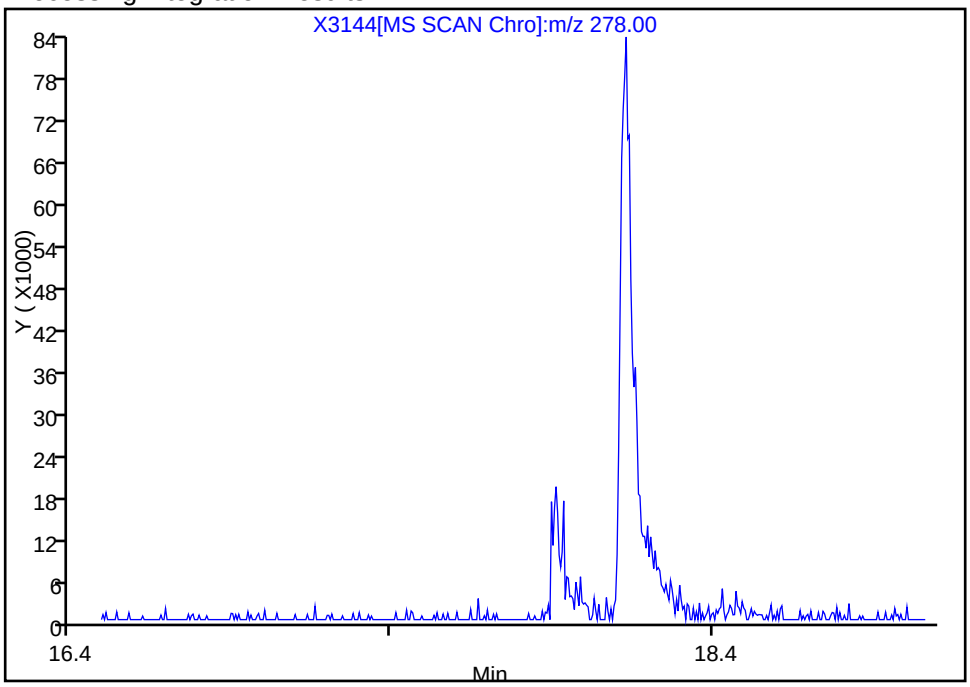
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3144.D		
Injection Date:	18-Dec-2012 17:44:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	15
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: 18.09

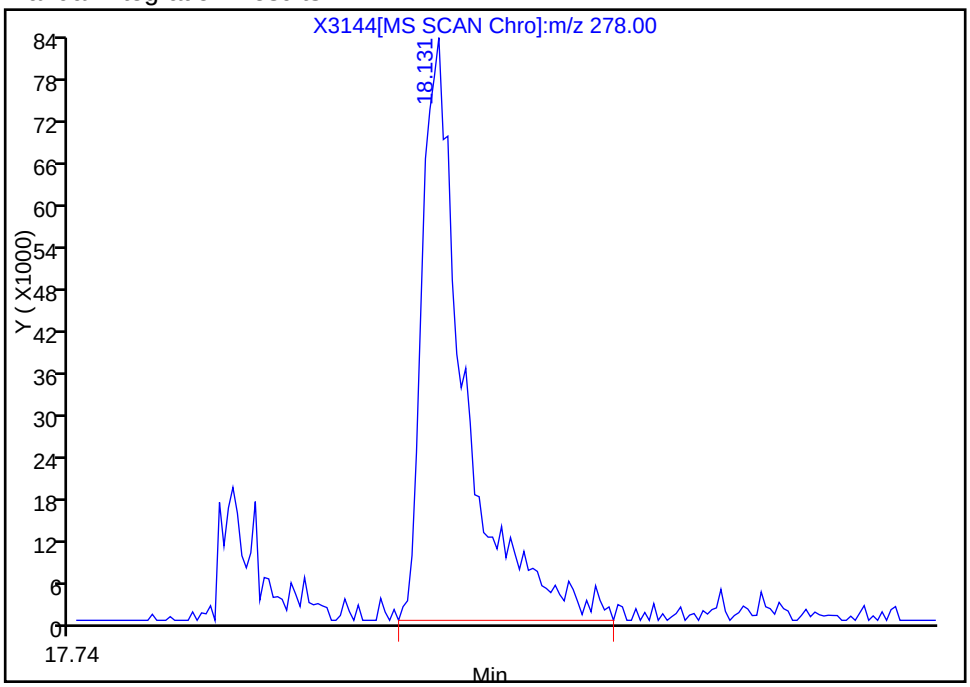
Processing Integration Results

Not Detected
Expected RT: 18.09



Manual Integration Results

RT: 18.13
Response: 263255
Amount: 2.056192



Reviewer: mckernar, 19-Dec-2012 08:53:35
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

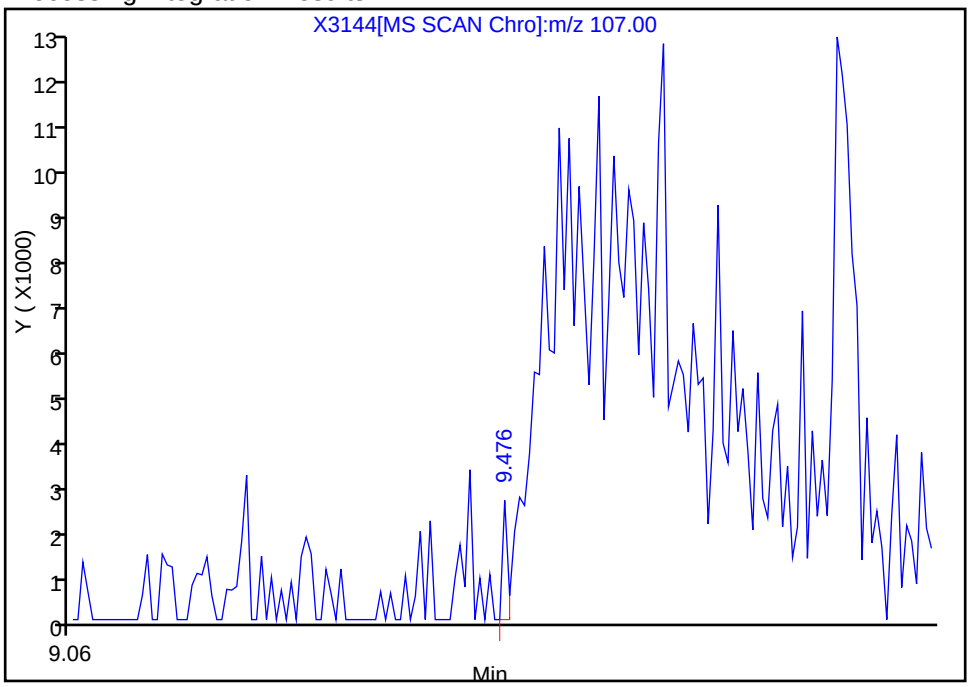
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3144.D		
Injection Date:	18-Dec-2012 17:44:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	15
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: 9.37

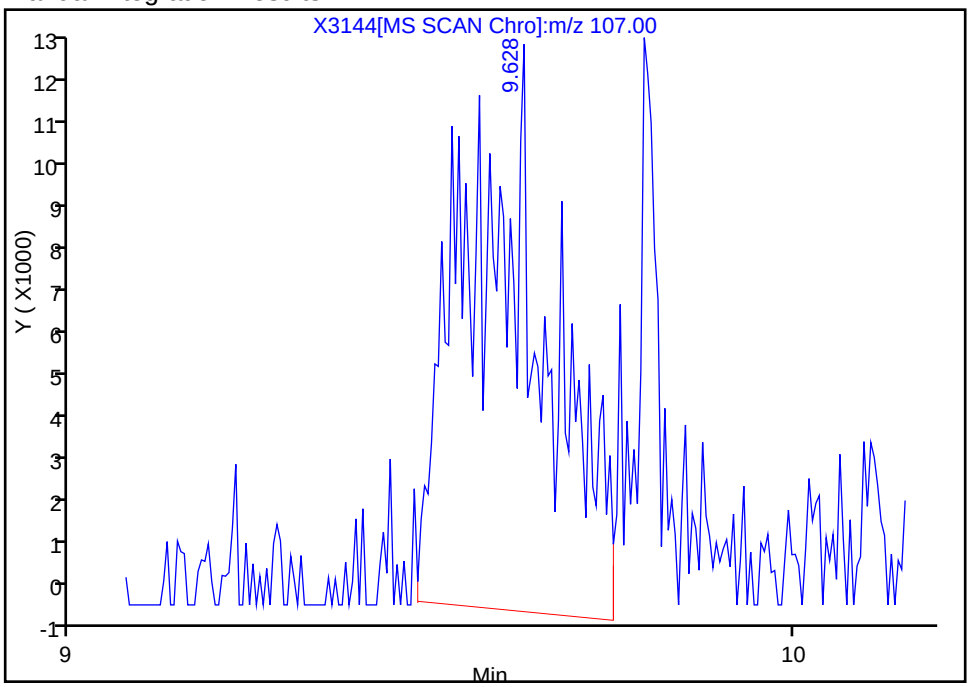
Processing Integration Results

RT: 9.48
Response: 868
Amount: 0.015151



Manual Integration Results

RT: 9.63
Response: 94511
Amount: 1.860767



Reviewer: mckernar, 19-Dec-2012 08:53:35
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 11-Mar-2013 09:26:21 Chrom Revision: 2.0 01-Feb-2013 10:03:10

Manual Integration/User Assign Peak Report

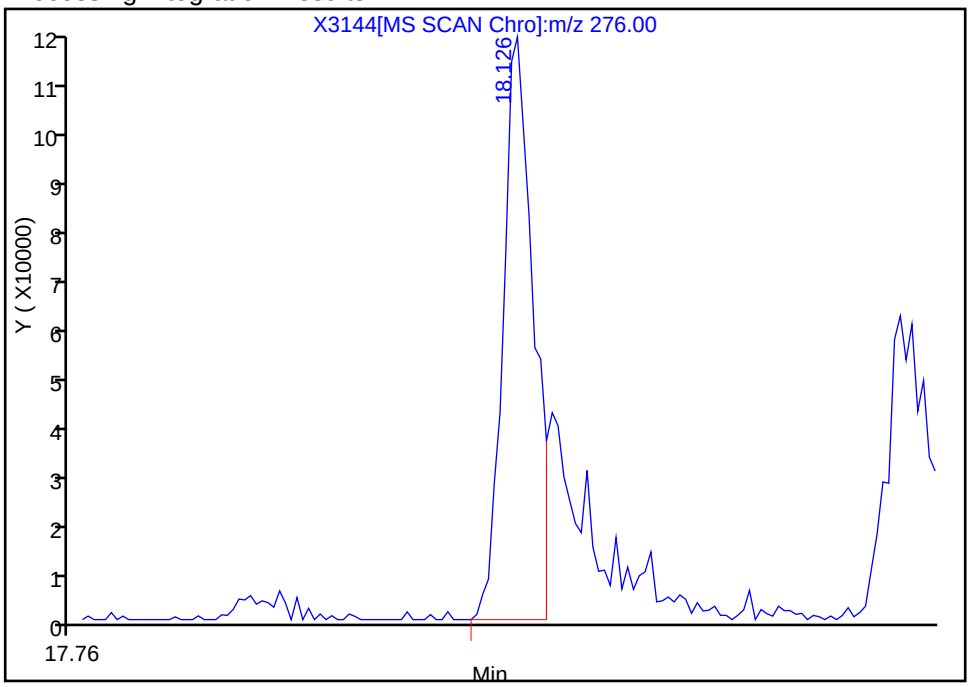
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3144.D		
Injection Date:	18-Dec-2012 17:44:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	15
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: 18.09

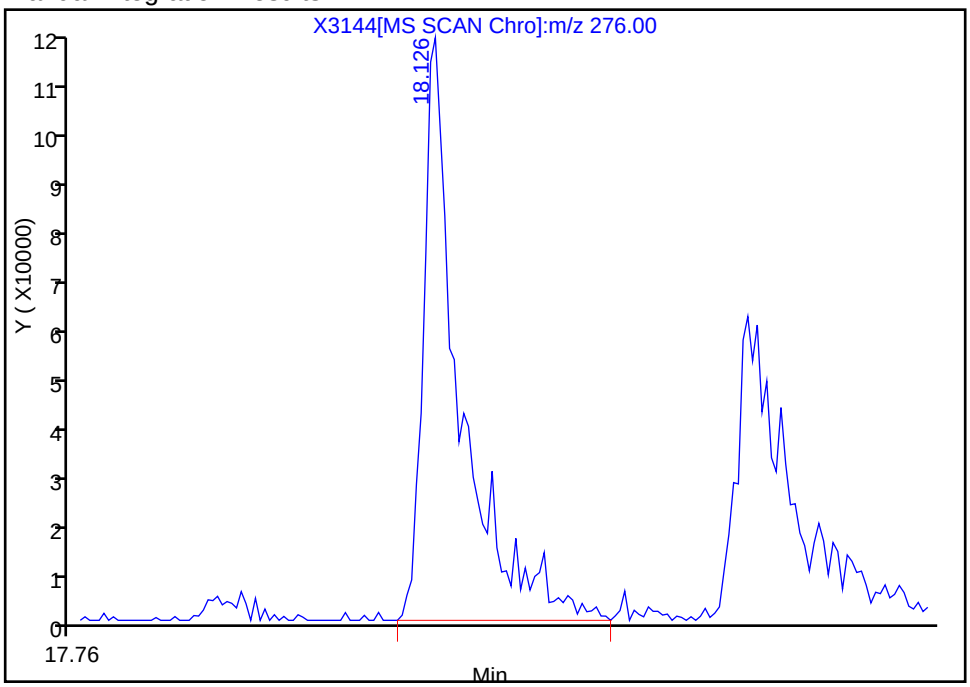
Processing Integration Results

RT: 18.13
Response: 207384
Amount: 1.293443



Manual Integration Results

RT: 18.13
Response: 309569
Amount: 2.052153



Reviewer: mckernar, 19-Dec-2012 08:53:35
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 11-Mar-2013 09:26:21 Chrom Revision: 2.0 01-Feb-2013 10:03:10

Manual Integration/User Assign Peak Report

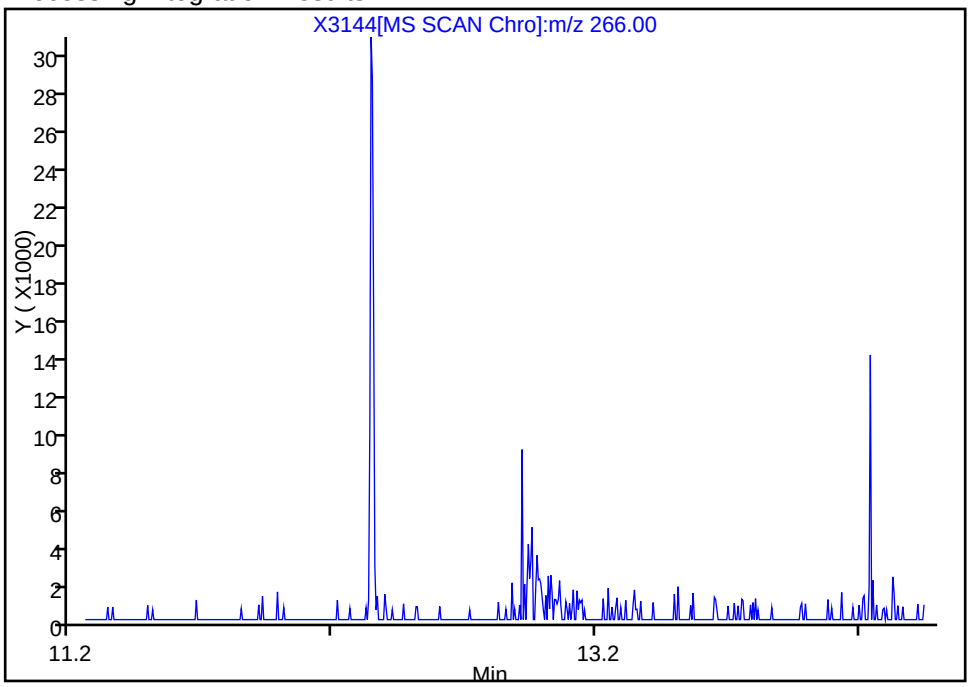
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3144.D		
Injection Date:	18-Dec-2012 17:44:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	15
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: 12.85

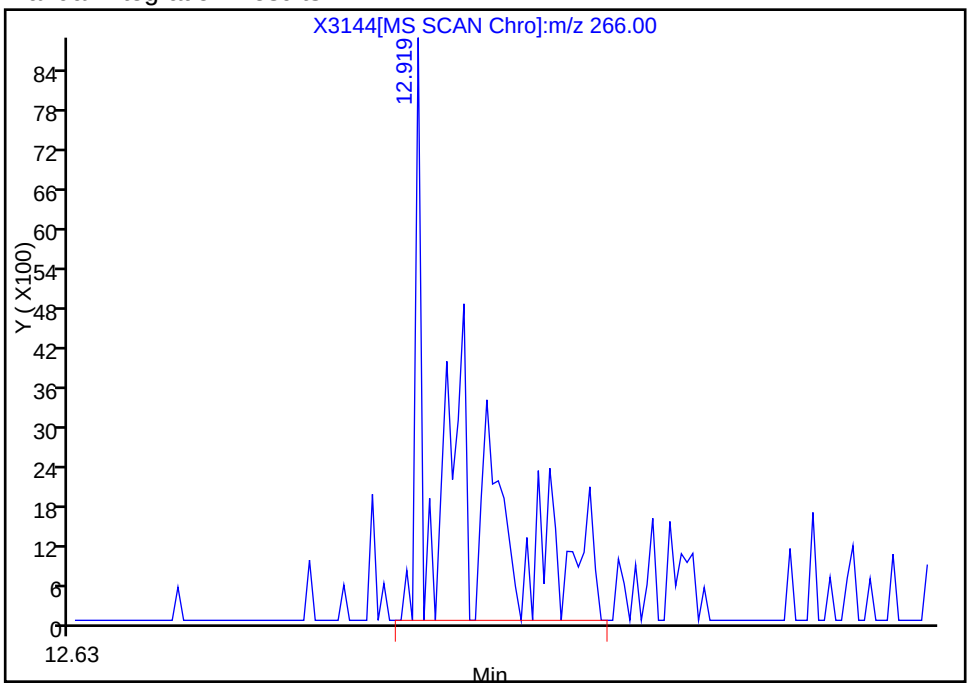
Processing Integration Results

Not Detected
Expected RT: 12.85



Manual Integration Results

RT: 12.92
Response: 15639
Amount: 1.818458



Reviewer: mckernar, 19-Dec-2012 08:53:35
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

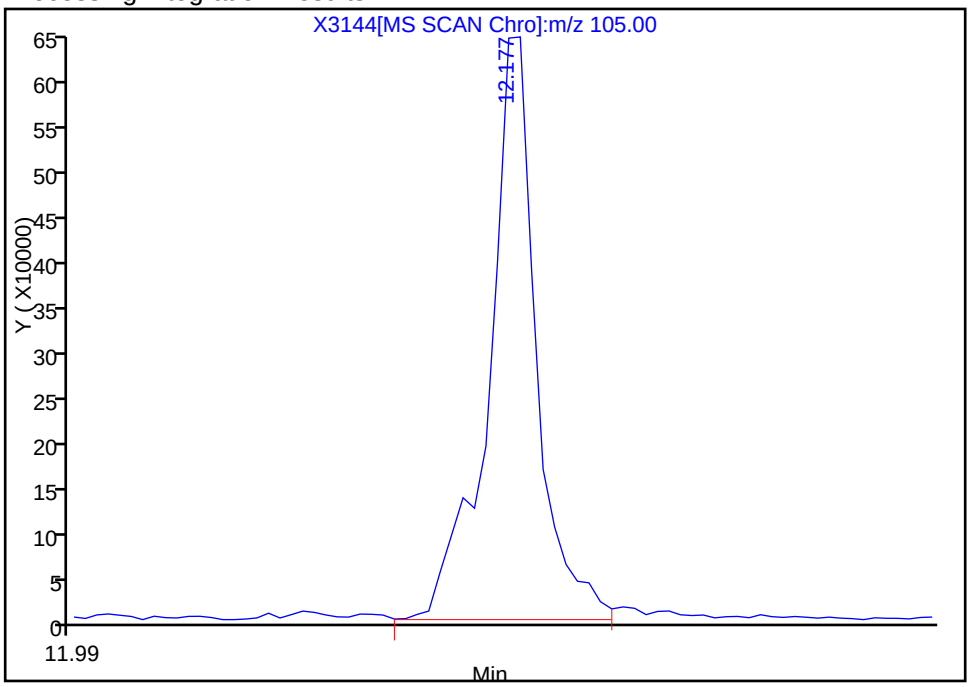
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3144.D		
Injection Date:	18-Dec-2012 17:44:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	15
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: 12.11

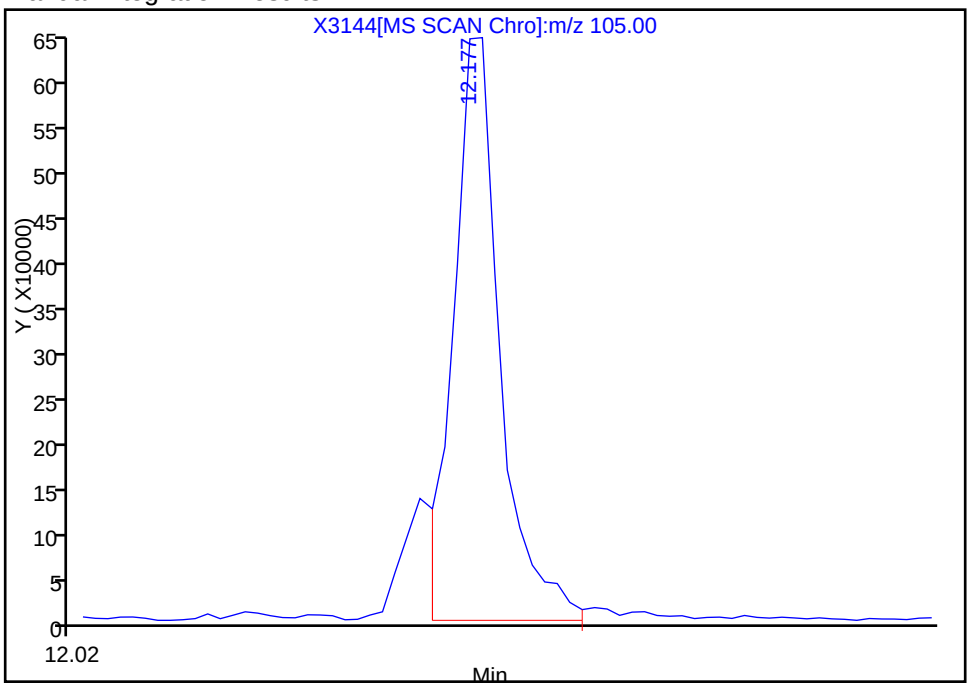
Processing Integration Results

RT: 12.18
Response: 887194
Amount: 7.108677



Manual Integration Results

RT: 12.18
Response: 802515
Amount: 6.568728



Reviewer: mckernar, 19-Dec-2012 08:53:35
Audit Action: Split an Integrated Peak
Audit Reason: Coelution

Manual Integration/User Assign Peak Report

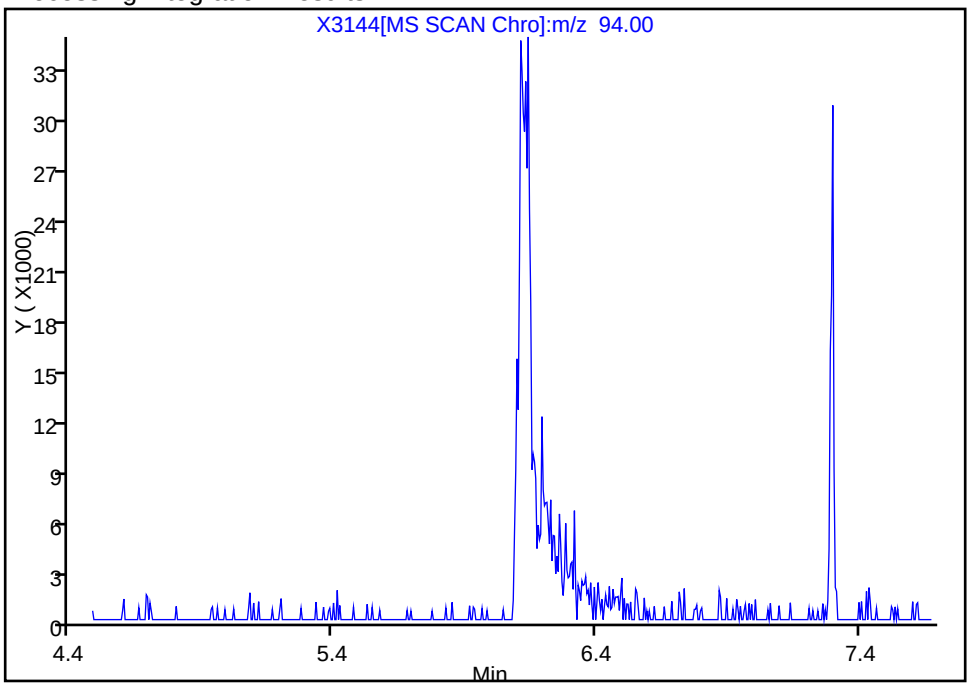
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3144.D		
Injection Date:	18-Dec-2012 17:44:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	15
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: 6.08

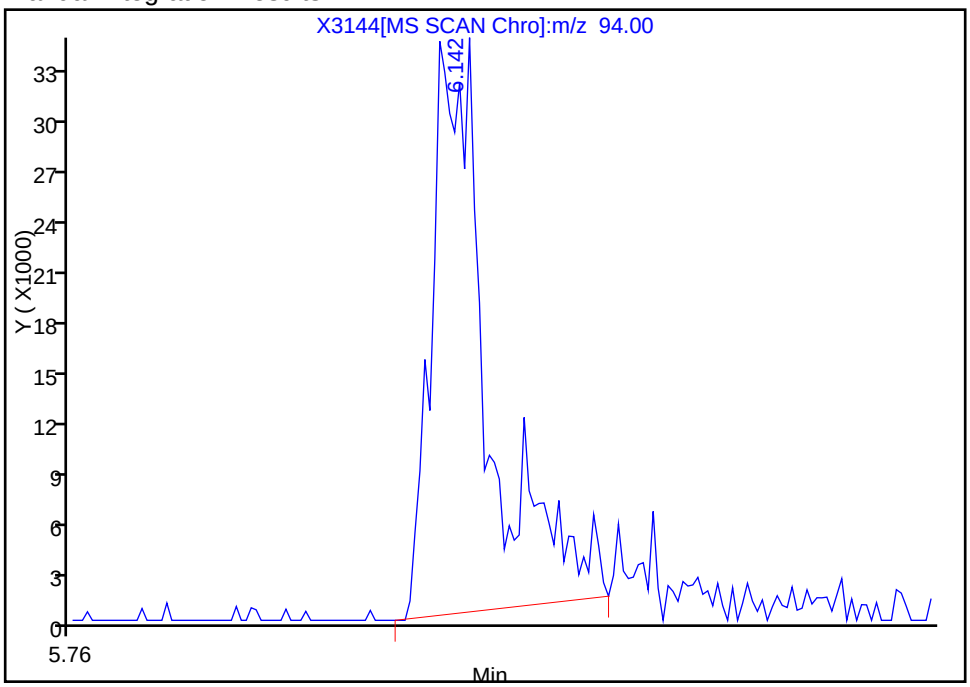
Processing Integration Results

Not Detected
Expected RT: 6.08



Manual Integration Results

RT: 6.14
Response: 128222
Amount: 1.821112



Reviewer: mckernar, 19-Dec-2012 08:53:35
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

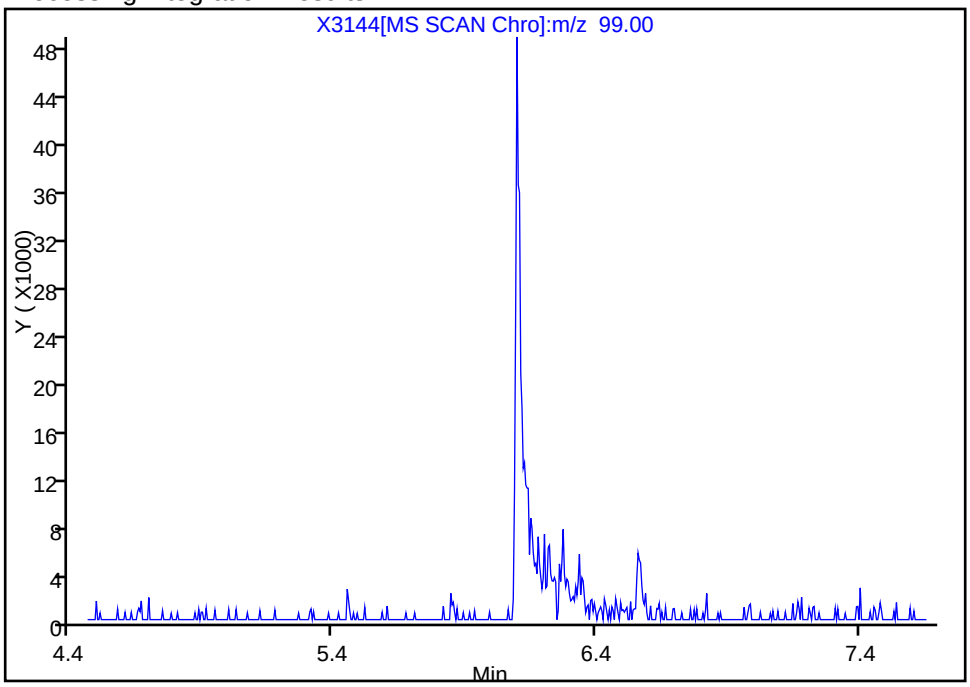
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3144.D		
Injection Date:	18-Dec-2012 17:44:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	15
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: 6.06

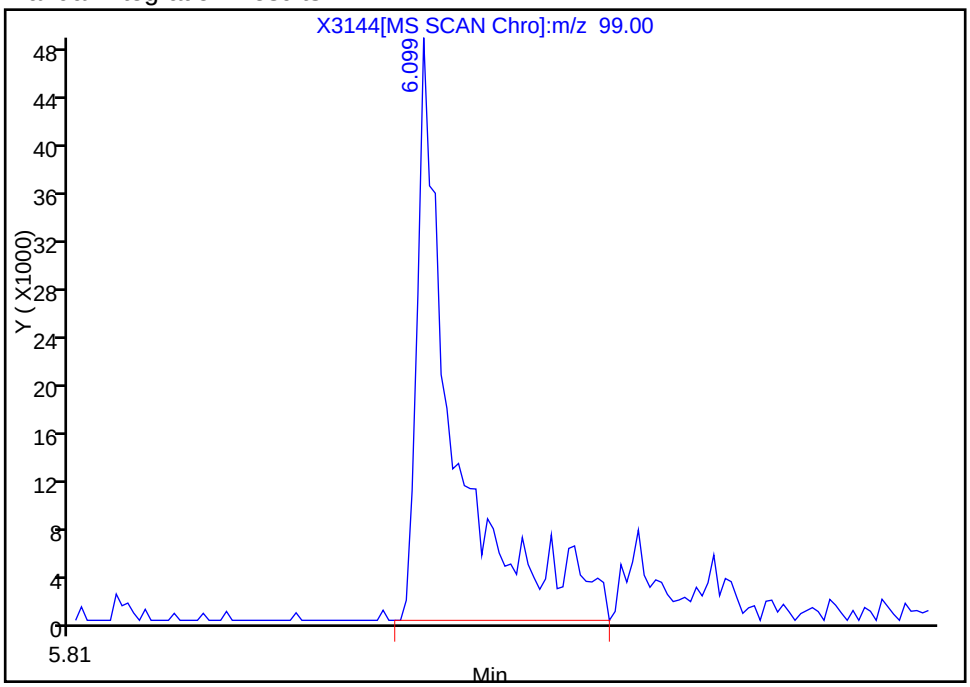
Processing Integration Results

Not Detected
Expected RT: 6.06



Manual Integration Results

RT: 6.10
Response: 102068
Amount: 1.598815



Reviewer: mckernar, 19-Dec-2012 08:53:35
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

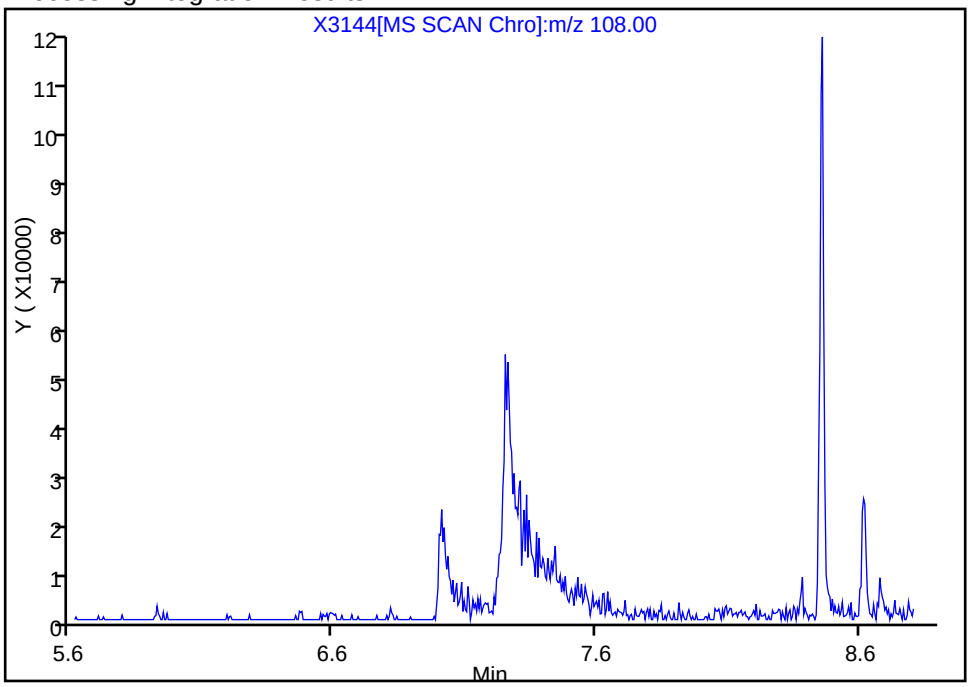
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3144.D		
Injection Date:	18-Dec-2012 17:44:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	15
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: 7.21

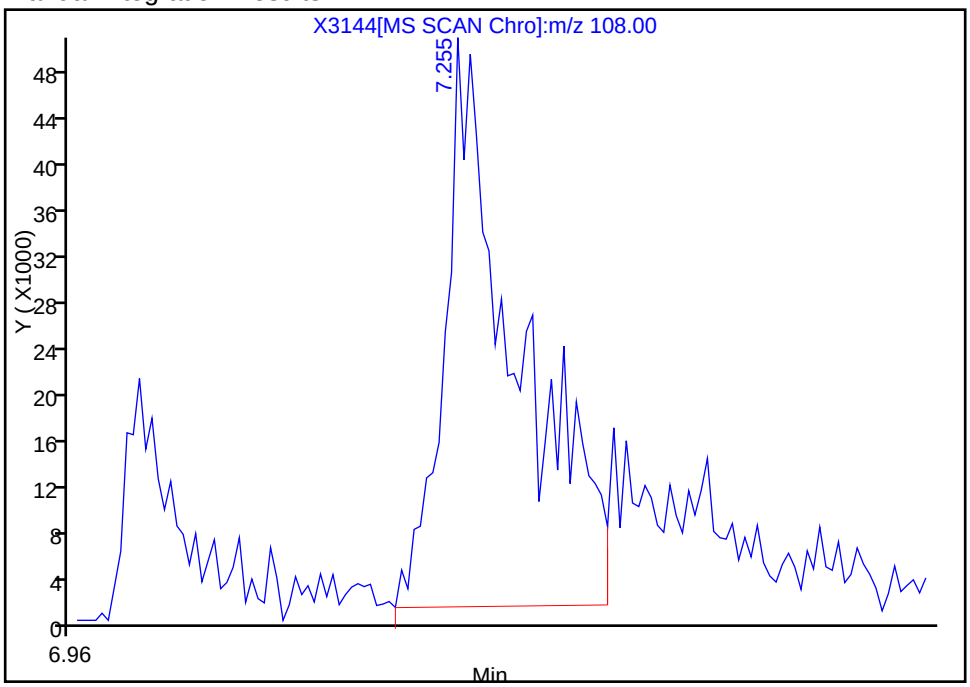
Processing Integration Results

Not Detected
Expected RT: 7.21



Manual Integration Results

RT: 7.25
Response: 189952
Amount: 3.732992



Reviewer: mckernar, 19-Dec-2012 08:53:35
Audit Action: Manually Integrated
Audit Reason: Assign Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-29598-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCSD 480-95170/3-A
Matrix: Solid
Lab File ID: X3145.D
Analysis Method: 8270D
Date Collected:
Extract. Method: 3546
Date Extracted: 12/11/2012 08:50
Sample wt/vol: 000030.4(g)
Date Analyzed: 12/18/2012 18:10
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.: 96347
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	52.2		33	9.9
95-50-1	1,2-Dichlorobenzene	50.5		33	9.9
541-73-1	1,3-Dichlorobenzene	44.9		33	9.9
100-52-7	Benzaldehyde	230		33	9.9
106-46-7	1,4-Dichlorobenzene	53.1		33	9.9
108-60-1	2,2'-oxybis[1-chloropropane]	48.1		33	9.9
95-95-4	2,4,5-Trichlorophenol	54.4		33	11
88-06-2	2,4,6-Trichlorophenol	43.4		33	14
100-51-6	Benzyl alcohol	ND		66	9.9
120-83-2	2,4-Dichlorophenol	56.7		33	9.9
105-67-9	2,4-Dimethylphenol	64.0		33	9.9
51-28-5	2,4-Dinitrophenol	ND		33	27
121-14-2	2,4-Dinitrotoluene	50.2		33	9.9
100-01-6	4-Nitroaniline	56.5	J	160	28
606-20-2	2,6-Dinitrotoluene	29.7	J	33	28
91-58-7	2-Chloronaphthalene	99.3		33	9.9
95-57-8	2-Chlorophenol	50.1		33	9.9
86-30-6	N-Nitrosodiphenylamine	88.9		33	9.9
91-57-6	2-Methylnaphthalene	56.2		33	9.9
95-48-7	2-Methylphenol	40.9		33	9.9
88-75-5	2-Nitrophenol	45.6		33	13
91-94-1	3,3'-Dichlorobenzidine	42.5	J	66	12
88-74-4	2-Nitroaniline	46.6	J	160	41
101-55-3	4-Bromophenyl phenyl ether	54.3		33	9.9
77-47-4	Hexachlorocyclopentadiene	37.2	J	66	9.9
106-47-8	4-Chloroaniline	37.7	J	66	30
100-02-7	4-Nitrophenol	ND		160	14
83-32-9	Acenaphthene	49.9		33	9.9
534-52-1	4,6-Dinitro-2-methylphenol	62.3	J	160	32
95-94-3	1,2,4,5-Tetrachlorobenzene	113		33	9.9
208-96-8	Acenaphthylene	53.6		33	9.9
98-86-2	Acetophenone	360		33	9.9
62-53-3	Aniline	111		33	9.9
120-12-7	Anthracene	55.9		33	9.9

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-29598-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCSD 480-95170/3-A
Matrix: Solid
Lab File ID: X3145.D
Analysis Method: 8270D
Date Collected:
Extract. Method: 3546
Date Extracted: 12/11/2012 08:50
Sample wt/vol: 000030.4(g)
Date Analyzed: 12/18/2012 18:10
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.: 96347
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1912-24-9	Atrazine	249		33	9.9
103-33-3	Azobenzene	178		33	9.9
56-55-3	Benzo[a]anthracene	53.5		33	9.9
50-32-8	Benzo[a]pyrene	50.0		33	9.9
205-99-2	Benzo[b]fluoranthene	52.0		33	9.9
191-24-2	Benzo[g,h,i]perylene	61.3		33	9.9
105-60-2	Caprolactam	308		33	9.9
99-09-2	3-Nitroaniline	43.1	J	160	9.9
207-08-9	Benzo[k]fluoranthene	65.0		33	17
111-91-1	Bis(2-chloroethoxy)methane	54.2		33	9.9
92-52-4	1,1'-Biphenyl	273		33	9.9
111-44-4	Bis(2-chloroethyl)ether	49.6		33	9.9
117-81-7	Bis(2-ethylhexyl) phthalate	ND		160	66
85-68-7	Butyl benzyl phthalate	50.5		33	9.9
218-01-9	Chrysene	59.9		33	9.9
621-64-7	N-Nitrosodi-n-propylamine	50.4		33	9.9
65-85-0	Benzoic acid	ND		160	15
53-70-3	Dibenz(a,h)anthracene	60.3		33	9.9
132-64-9	Dibenzofuran	58.8		33	9.9
84-66-2	Diethyl phthalate	52.5		33	11
131-11-3	Dimethyl phthalate	52.8		33	9.9
84-74-2	Di-n-butyl phthalate	55.9	J	160	49
117-84-0	Di-n-octyl phthalate	54.0		33	9.9
101-84-8	Phenyl ether	201		33	9.9
58-90-2	2,3,4,6-Tetrachlorophenol	73.9		33	9.9
206-44-0	Fluoranthene	54.0		33	9.9
59-50-7	4-Chloro-3-methylphenol	45.6	J	66	9.9
86-73-7	Fluorene	49.9		33	9.9
7005-72-3	4-Chlorophenyl phenyl ether	51.7		33	9.9
118-74-1	Hexachlorobenzene	59.0		33	9.9
87-68-3	Hexachlorobutadiene	52.2		33	9.9
67-72-1	Hexachloroethane	47.6		33	9.9
193-39-5	Indeno[1,2,3-cd]pyrene	48.6		33	9.9
78-59-1	Isophorone	55.7		33	9.9

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-29598-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCSD 480-95170/3-A
Matrix: Solid
Lab File ID: X3145.D
Analysis Method: 8270D
Date Collected:
Extract. Method: 3546
Date Extracted: 12/11/2012 08:50
Sample wt/vol: 000030.4(g)
Date Analyzed: 12/18/2012 18:10
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.: 96347
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-20-3	Naphthalene	50.8		33	9.9
98-95-3	Nitrobenzene	63.0		33	9.9
87-86-5	Pentachlorophenol	54.6		33	9.9
85-01-8	Phenanthrene	54.2		33	9.9
119-61-9	Benzophenone	186		33	9.9
108-95-2	Phenol	64.4		33	9.9
129-00-0	Pyrene	57.4		33	9.9
62-75-9	N-Nitrosodimethylamine	165		33	9.9
90-12-0	1-Methylnaphthalene	202		33	9.9
106-44-5	4-Methylphenol	113		33	9.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	53		30-130
367-12-4	2-Fluorophenol	71		30-130
4165-60-0	Nitrobenzene-d5	86		30-130
4165-62-2	Phenol-d5	71		30-130
321-60-8	2-Fluorobiphenyl	85		30-130
1718-51-0	p-Terphenyl-d14	88		30-130

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3145.D
Lims ID: LCSD 480-95170/3-A Client ID:
Inject. Date: 18-Dec-2012 18:10:30 Dil. Factor: 1.0000
Sample Type: LCSD
Sample ID: 480-0017654-016
Misc. Info.:
Operator: ANM Instrument ID: HP5973X
Injection Vol: 1.0 ul ALS Bottle#: 17
Lims Batch ID: 96347 Lims Sample ID: 16
Detector: MS SCAN

Method: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X-8270LL.m
Last Update: 11-Mar-2013 09:26:19 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: XAWRK026

First Level Reviewer: mckernar Date: 19-Dec-2012 09:00:44

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.570	6.537	0.033	83	249224	5.00	
* 2 Naphthalene-d8	136	8.463	8.425	0.038	97	895870	5.00	
* 3 Acenaphthene-d10	164	11.102	11.035	0.067	88	546820	5.00	
* 4 Phenanthrene-d10	188	13.114	13.052	0.062	97	888817	5.00	
* 5 Chrysene-d12	240	15.724	15.720	0.004	96	684125	5.00	
* 6 Perylene-d12	264	16.999	17.004	-0.005	96	660531	5.00	
$ 7 2-Fluorophenol	112	4.692	4.672	0.020	1	79992	1.41	M
$ 8 Phenol-d5	99	6.104	6.061	0.043	0	97064	1.41	M
$ 9 Nitrobenzene-d5	82	7.407	7.374	0.033	80	115356	1.72	
$ 10 2-Fluorobiphenyl	172	10.113	10.056	0.057	92	233442	1.70	
$ 11 2,4,6-Tribromophenol	330	12.286	12.196	0.090	0	17389	1.06	M
$ 12 p-Terphenyl-d14	244	14.764	14.740	0.024	91	231701	1.76	
18 1,4-Dioxane	88	2.475	2.580	-0.105	34	184806	7.23	
19 N-Nitrosodimethylamine	42	2.799	2.918	-0.119	55	227839	5.00	
20 Pyridine	52	2.880	2.975	-0.095	1	102578	2.22	M
21 Benzaldehyde	77	5.933	5.909	0.024	92	341107	6.98	
23 Aniline	93	6.104	6.071	0.033	94	307697	3.37	
22 Phenol	94	6.123	6.080	0.043	0	148571	1.96	M
24 Bis(2-chloroethyl)ether	93	6.199	6.170	0.029	96	90171	1.51	
25 2-Chlorophenol	128	6.280	6.237	0.043	94	98287	1.52	
26 1,3-Dichlorobenzene	146	6.480	6.451	0.029	92	109325	1.37	
27 1,4-Dichlorobenzene	146	6.594	6.565	0.029	64	128958	1.61	
28 Benzyl alcohol	108		6.774					
29 1,2-Dichlorobenzene	146	6.817	6.784	0.033	82	114554	1.54	
31 2-Methylphenol	108	7.012	6.965	0.047	0	67298	1.24	M
32 2,2'-oxybis[1-chloropropane]	45	7.008	6.979	0.029	75	142186	1.46	
33 Acetophenone	105	7.183	7.155	0.028	97	1011247	10.9	
34 N-Nitrosodi-n-propylamine	70	7.193	7.164	0.029	62	71189	1.53	
36 4-Methylphenol	108	7.264	7.212	0.052	0	187914	3.42	M
37 Hexachloroethane	117	7.307	7.274	0.033	89	47428	1.45	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
38 Nitrobenzene	77	7.436	7.402	0.034	83	133604	1.92	
40 Isophorone	82	7.797	7.764	0.033	73	194166	1.69	
41 2-Nitrophenol	139	7.916	7.873	0.043	82	43970	1.39	
43 2,4-Dimethylphenol	107	8.068	7.987	0.081	0	116512	1.95	M
42 o,o',o''-Triethylphosphorothioat	198	8.101	8.055	0.046	83	98357	0	
45 Bis(2-chloroethoxy)methane	93	8.154	8.111	0.043	94	111931	1.65	
44 Benzoic acid	105	8.211	8.168	0.043	1	1416	0.0606	
47 2,4-Dichlorophenol	162	8.330	8.268	0.062	0	83873	1.72	M
48 1,2,4-Trichlorobenzene	180	8.387	8.348	0.039	91	94957	1.59	
49 Naphthalene	128	8.496	8.458	0.038	90	306423	1.54	
51 4-Chloroaniline	127	8.648	8.586	0.062	81	82257	1.15	M
52 Hexachlorobutadiene	225	8.686	8.653	0.033	71	51901	1.59	
54 Caprolactam	113	9.162	9.114	0.048	1	166166	9.37	M
55 4-Chloro-3-methylphenol	107	9.576	9.371	0.205	1	74607	1.39	M
56 2-Methylnaphthalene	142	9.547	9.495	0.052	79	237796	1.71	
57 1-Methylnaphthalene	142	9.690	9.637	0.053	94	786597	6.14	
58 Hexachlorocyclopentadiene	237	9.780	9.728	0.052	48	20004	1.13	
59 1,2,4,5-Tetrachlorobenzene	216	9.799	9.747	0.052	83	176666	3.44	
60 2,4,6-Trichlorophenol	196	10.037	9.951	0.086	63	41620	1.32	M
61 2,4,5-Trichlorophenol	196	10.203	10.037	0.166	61	50503	1.65	M
62 1,1'-Biphenyl	154	10.256	10.198	0.058	98	1313861	8.31	
63 2-Chloronaphthalene	162	10.303	10.241	0.062	93	411468	3.02	
64 Phenyl ether	170	10.422	10.360	0.062	91	524265	6.10	
65 2-Nitroaniline	65	10.503	10.417	0.086	71	51309	1.42	
66 1,4-Dinitrobenzene	75	10.717	10.641	0.076	79	123486	0	
67 Dimethyl phthalate	163	10.764	10.693	0.071	89	227325	1.61	
68 2,6-Dinitrotoluene	165	10.855	10.783	0.072	87	57881	0.9023	
69 Acenaphthylene	152	10.898	10.821	0.077	83	311795	1.63	
70 3-Nitroaniline	138	11.169	11.045	0.124	1	41730	1.31	M
71 Acenaphthene	153	11.154	11.083	0.071	88	202063	1.52	
72 2,4-Dinitrophenol	184	11.364	11.211	0.153	1	7720	0.8186	M
73 Dibenzofuran	168	11.425	11.349	0.076	99	290646	1.79	
74 2,4-Dinitrotoluene	165	11.497	11.387	0.110	89	62546	1.53	
75 4-Nitrophenol	109		11.421					
76 2,3,4,6-Tetrachlorophenol	232	11.668	11.563	0.105	60	55192	2.25	M
78 Diethyl phthalate	149	11.811	11.744	0.067	91	247108	1.59	
77 Thionazin	97	11.925	11.826	0.099	59	81969	0	
79 Fluorene	166	11.920	11.853	0.067	85	225396	1.52	
80 4-Chlorophenyl phenyl ether	204	11.939	11.868	0.071	81	103410	1.57	
81 4-Nitroaniline	138	12.077	11.953	0.124	57	48326	1.72	M
82 4,6-Dinitro-2-methylphenol	198	12.082	11.982	0.100	1	22776	1.89	M
84 Diphenylamine	169	12.115	12.048	0.067	98	558357	2.70	M
83 N-Nitrosodiphenylamine	169	12.115	12.048	0.067	98	558384	2.70	M
16 1,2-Diphenylhydrazine	77	12.153	12.086	0.067	95	719421	5.39	
85 Azobenzene	77	12.153	12.086	0.067	94	719421	5.40	
86 Benzophenone	105	12.177	12.110	0.067	96	736153	5.66	
87 Sulfotepp	322	12.348	12.297	0.051	76	72815	0	
88 Phorate	75	12.505	12.454	0.051	88	241595	0	
89 4-Bromophenyl phenyl ether	248	12.581	12.519	0.062	81	54945	1.65	
91 Hexachlorobenzene	284	12.648	12.581	0.067	61	61127	1.79	
90 Dimethoate	87	12.738	12.668	0.070	73	137168	0	
93 Atrazine	200	12.824	12.771	0.053	89	311728	7.58	

Report Date: 11-Mar-2013 09:26:22 Chrom Revision: 2.0 01-Feb-2013 10:03:10
Data File: \\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3145.D

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
95 Pentachloronitrobenzene	237	12.914	12.852	0.062	44	51878	3.01	
94 Pentachlorophenol	266	12.919	12.852	0.067	0	13938	1.66	M
97 Phenanthrene	178	13.142	13.080	0.062	85	326621	1.65	
96 Disulfoton	88	13.137	13.120	0.017	73	209917	0	
98 Anthracene	178	13.204	13.142	0.062	94	342645	1.70	
100 Methyl parathion	109	13.565	13.543	0.022	79	112269	0	
102 Di-n-butyl phthalate	149	13.784	13.741	0.043	96	368841	1.70	
103 Ethyl Parathion	97	13.965	14.003	-0.038	70	71011	0	
104 Fluoranthene	202	14.402	14.364	0.038	96	322220	1.64	
105 Benzidine	184	14.578	14.540	0.038	98	353306	4.68	M
106 Pyrene	202	14.621	14.588	0.033	96	320045	1.75	
107 Famphur	218	15.163	15.154	0.009	75	167343	0	
108 Butyl benzyl phthalate	149	15.206	15.196	0.010	86	155692	1.54	
109 3,3'-Dichlorobenzidine	252	15.710	15.691	0.019	56	79433	1.29	M
110 Bis(2-ethylhexyl) phthalate	149	15.696	15.696	0.0	96	224567	1.61	
111 Benzo[a]anthracene	228	15.720	15.705	0.015	83	239802	1.63	
112 Chrysene	228	15.748	15.743	0.005	79	304406	1.82	
113 Di-n-octyl phthalate	149	16.229	16.238	-0.009	96	361276	1.64	
114 Benzo[b]fluoranthene	252	16.652	16.647	0.005	79	242544	1.58	
115 Benzo[k]fluoranthene	252	16.676	16.666	0.010	61	312277	1.98	
116 Benzo[a]pyrene	252	16.961	16.951	0.010	60	225402	1.52	
117 Indeno[1,2,3-cd]pyrene	276	18.112	18.093	0.019	93	233888	1.48	
118 Dibenz(a,h)anthracene	278	18.107	18.093	0.014	0	246404	1.83	M
119 Benzo[g,h,i]perylene	276	18.426	18.411	0.015	89	246283	1.86	M
S 121 3-Methylphenol	1		0.000					

QC Flag Legend

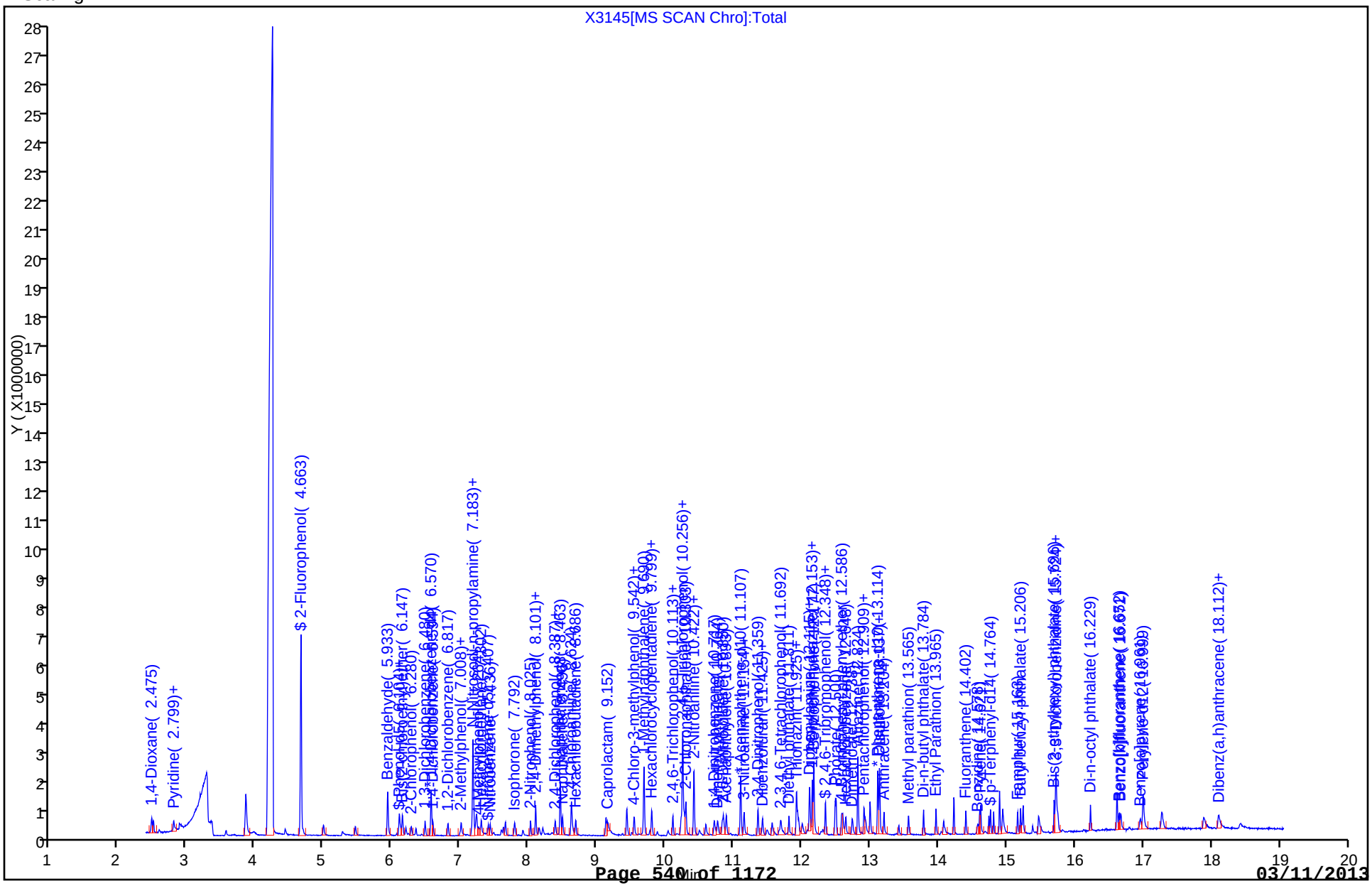
Review Flags
M - Manually Integrated

Report Date: 11-Mar-2013 09:26:22 Chrom Revision: 2.0 01-Feb-2013 10:03:10

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3145.D		
Injection Date:	18-Dec-2012 18:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	16
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

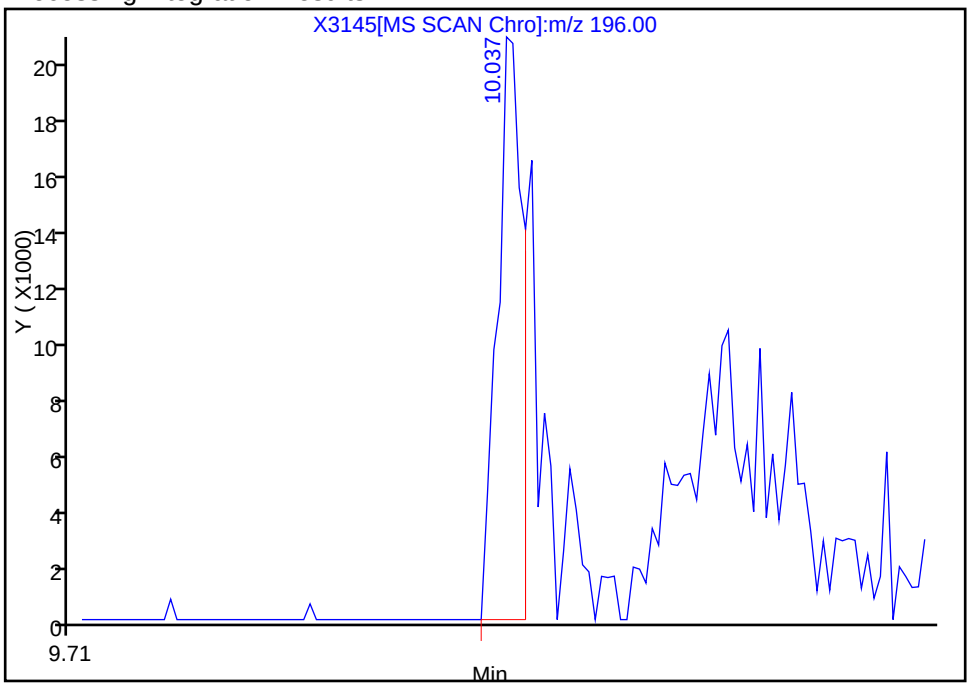
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3145.D		
Injection Date:	18-Dec-2012 18:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	16
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: 10.04

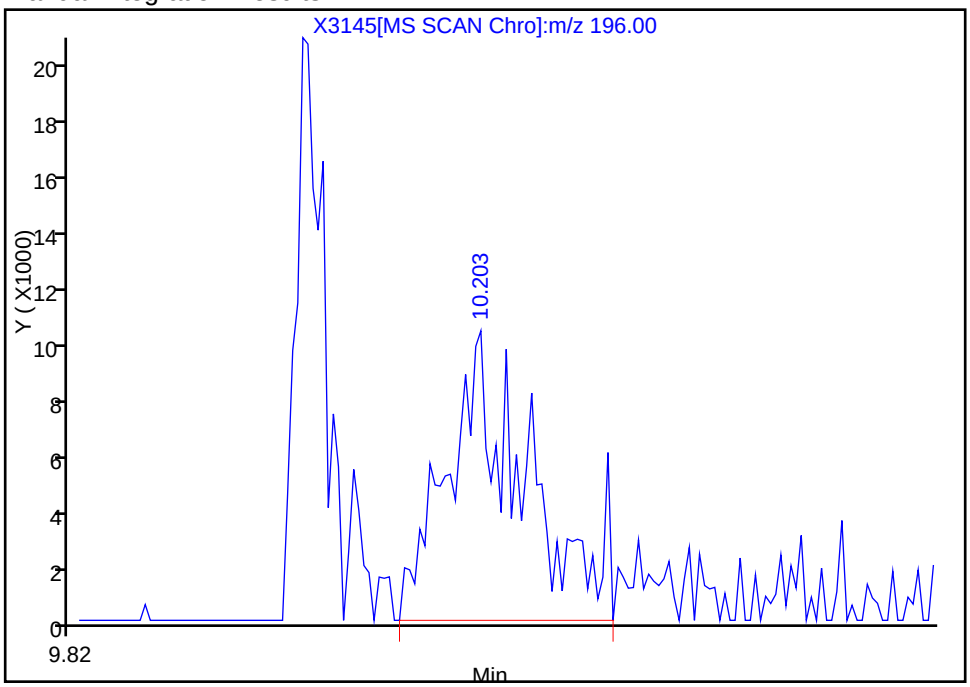
Processing Integration Results

RT: 10.04
Response: 26782
Amount: 0.827396



Manual Integration Results

RT: 10.20
Response: 50503
Amount: 1.653324



Reviewer: mckernar, 19-Dec-2012 09:00:44
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

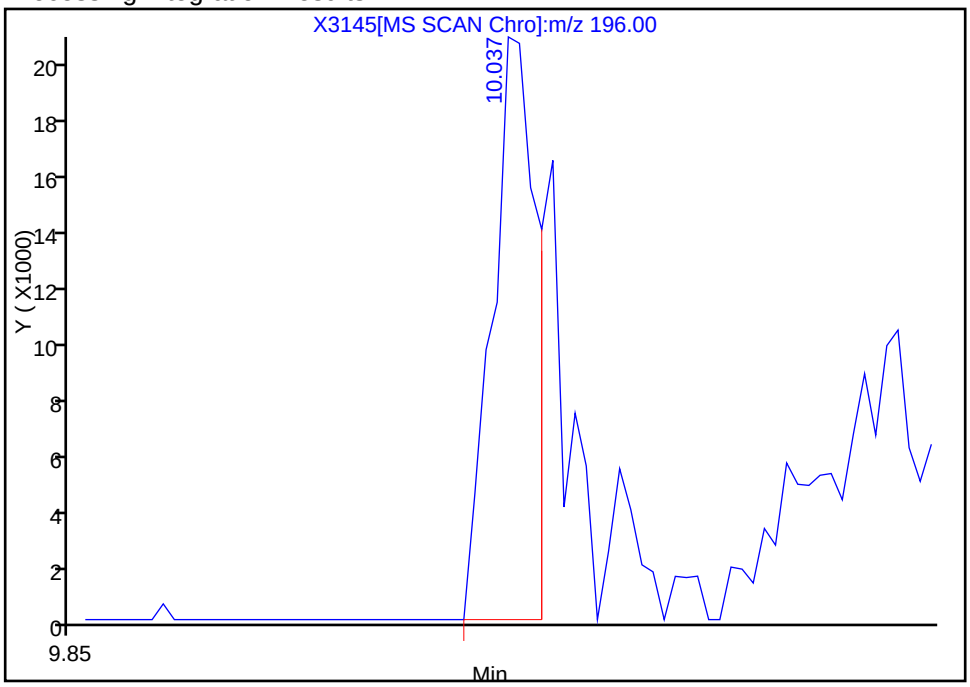
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3145.D		
Injection Date:	18-Dec-2012 18:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	16
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: 9.95

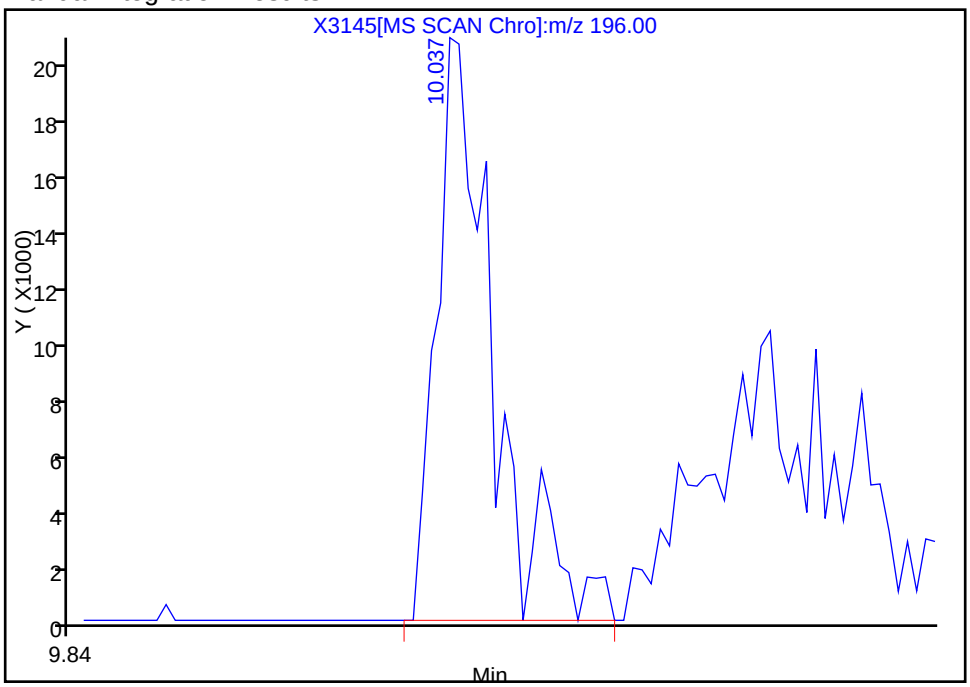
Processing Integration Results

RT: 10.04
Response: 26782
Amount: 0.812338



Manual Integration Results

RT: 10.04
Response: 41620
Amount: 1.318035



Reviewer: mckernar, 19-Dec-2012 09:00:44
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 11-Mar-2013 09:26:22 Chrom Revision: 2.0 01-Feb-2013 10:03:10

Manual Integration/User Assign Peak Report

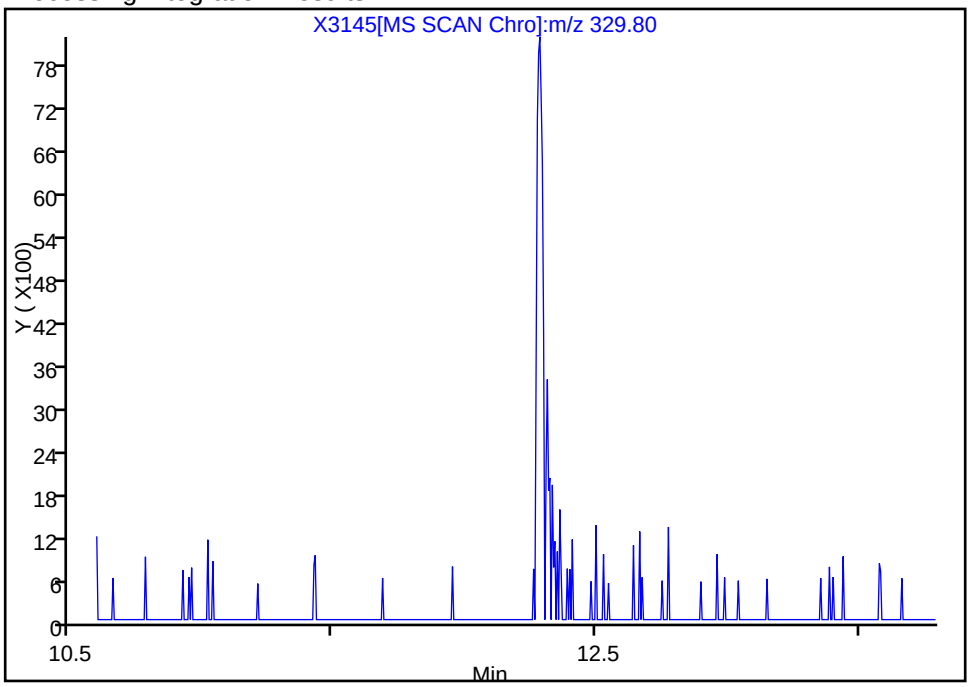
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3145.D		
Injection Date:	18-Dec-2012 18:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	16
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: 12.20

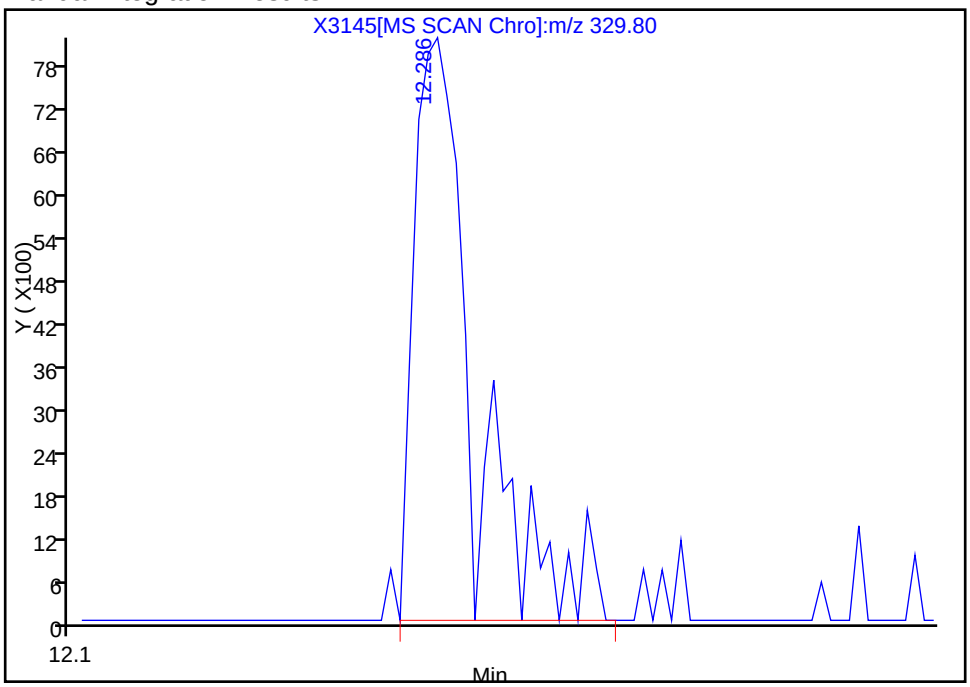
Processing Integration Results

Not Detected
Expected RT: 12.20



Manual Integration Results

RT: 12.29
Response: 17389
Amount: 1.063500



Reviewer: mckernar, 19-Dec-2012 09:00:44
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

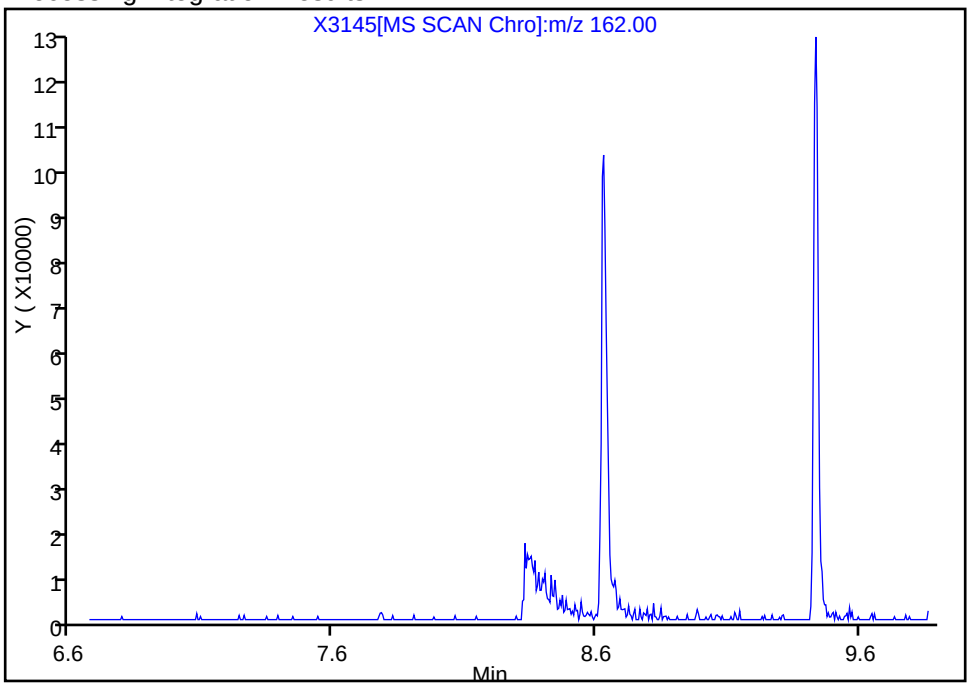
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3145.D		
Injection Date:	18-Dec-2012 18:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	16
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: 8.27

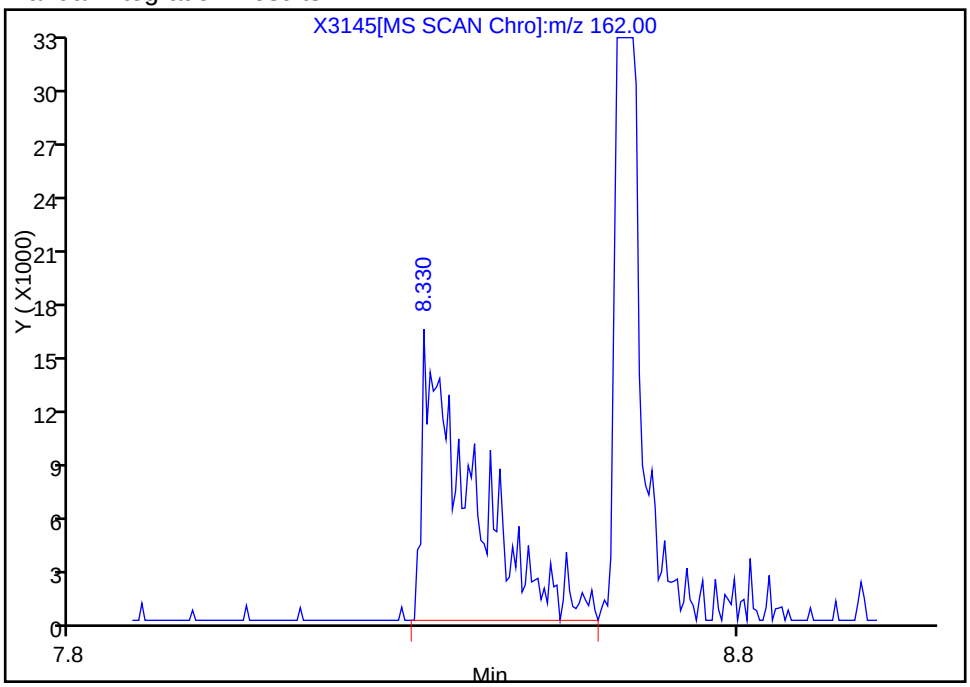
Processing Integration Results

Not Detected
Expected RT: 8.27



Manual Integration Results

RT: 8.33
Response: 83873
Amount: 1.722172



Reviewer: mckernar, 19-Dec-2012 09:00:44
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 11-Mar-2013 09:26:22 Chrom Revision: 2.0 01-Feb-2013 10:03:10

Manual Integration/User Assign Peak Report

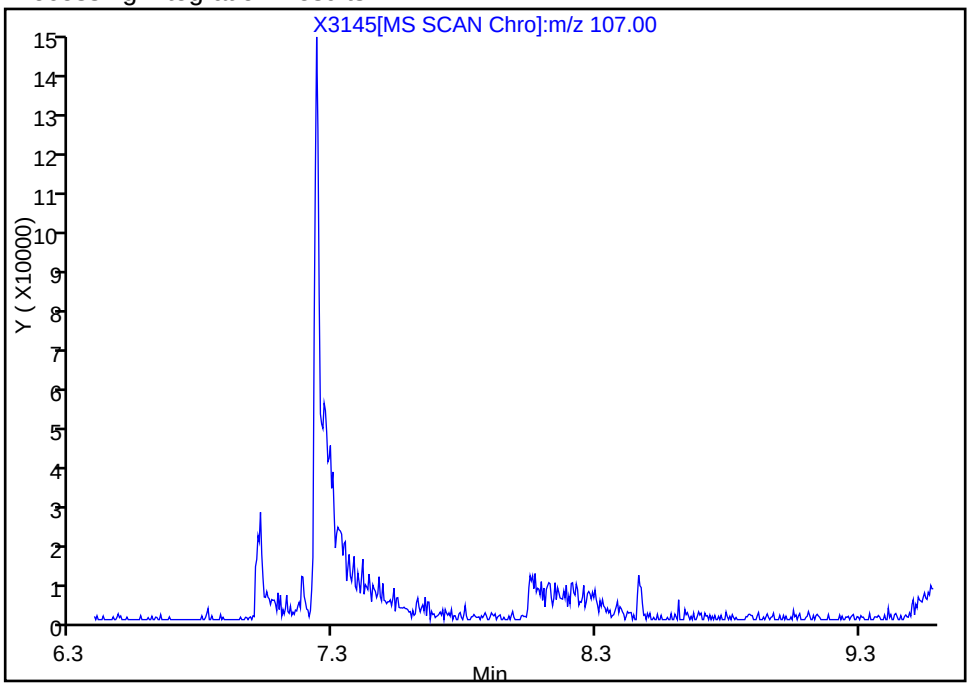
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3145.D		
Injection Date:	18-Dec-2012 18:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	16
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: 7.99

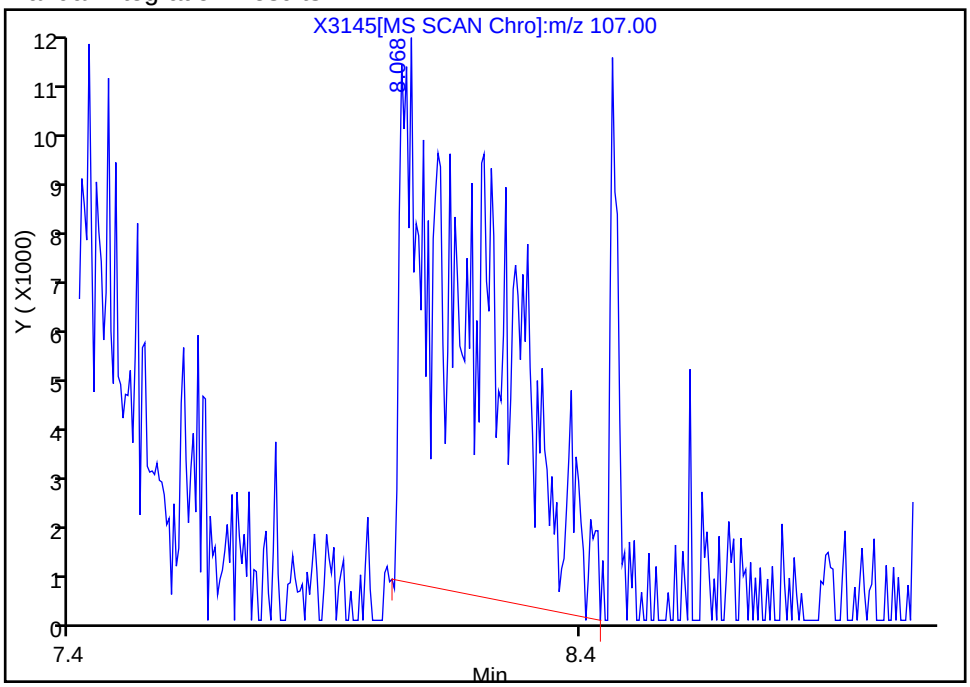
Processing Integration Results

Not Detected
Expected RT: 7.99



Manual Integration Results

RT: 8.07
Response: 116512
Amount: 1.946771



Reviewer: mckernar, 19-Dec-2012 09:00:44
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

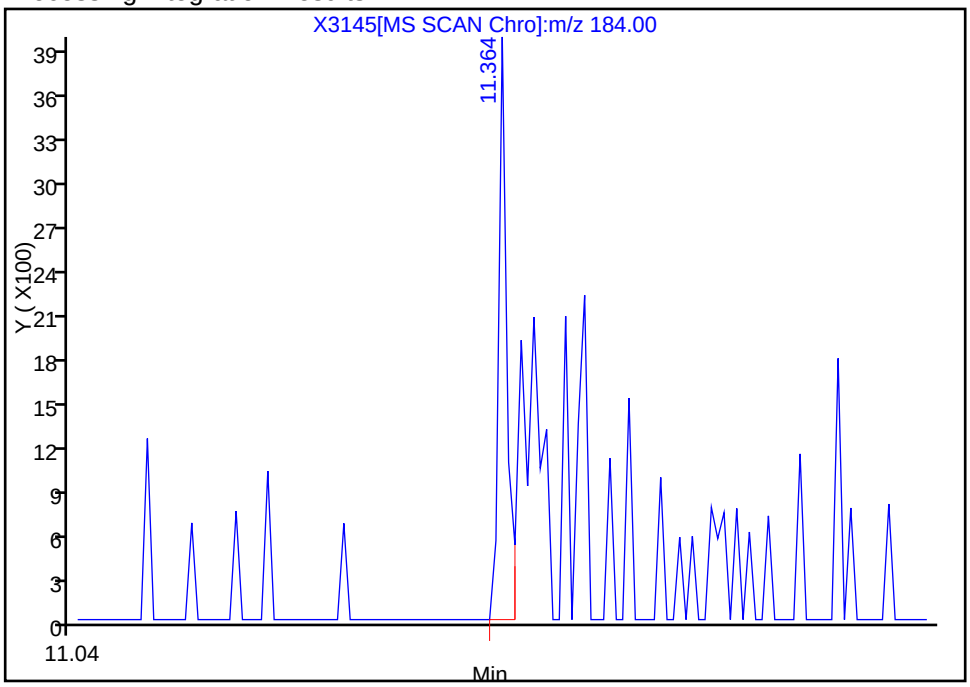
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3145.D		
Injection Date:	18-Dec-2012 18:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	16
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: 11.21

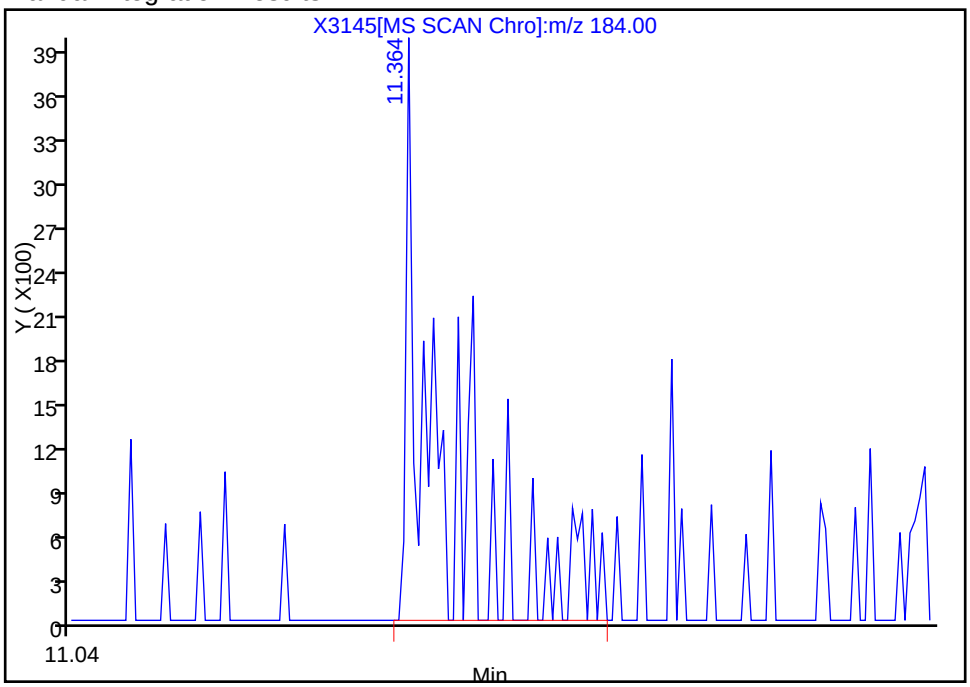
Processing Integration Results

RT: 11.36
Response: 1740
Amount: 0.138043



Manual Integration Results

RT: 11.36
Response: 7720
Amount: 0.818633



Reviewer: mckernar, 19-Dec-2012 09:00:44
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 11-Mar-2013 09:26:23 Chrom Revision: 2.0 01-Feb-2013 10:03:10

Manual Integration/User Assign Peak Report

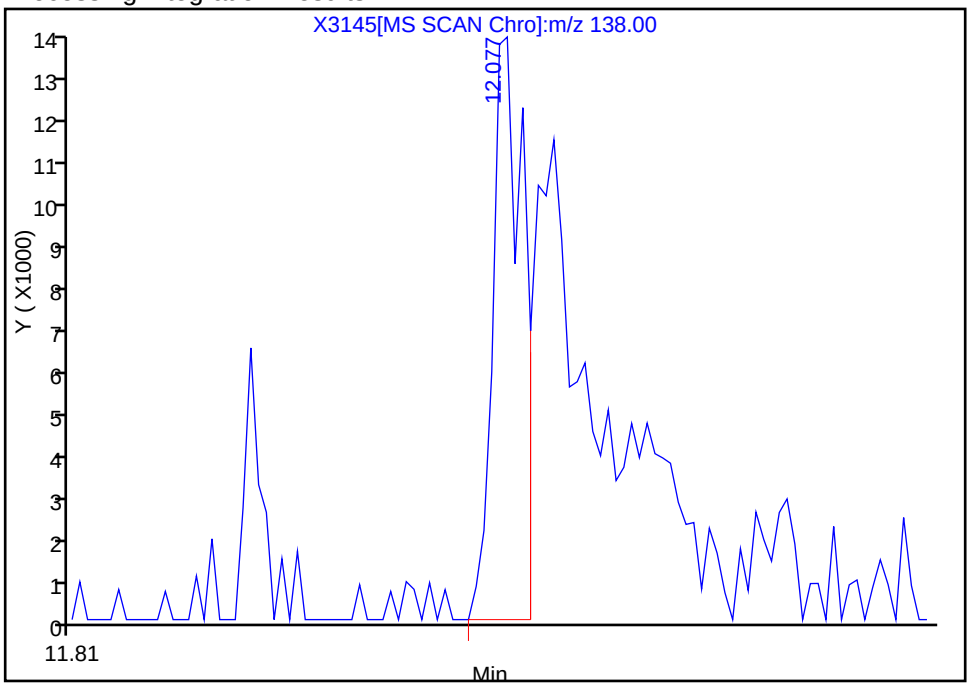
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3145.D		
Injection Date:	18-Dec-2012 18:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	16
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: 11.95

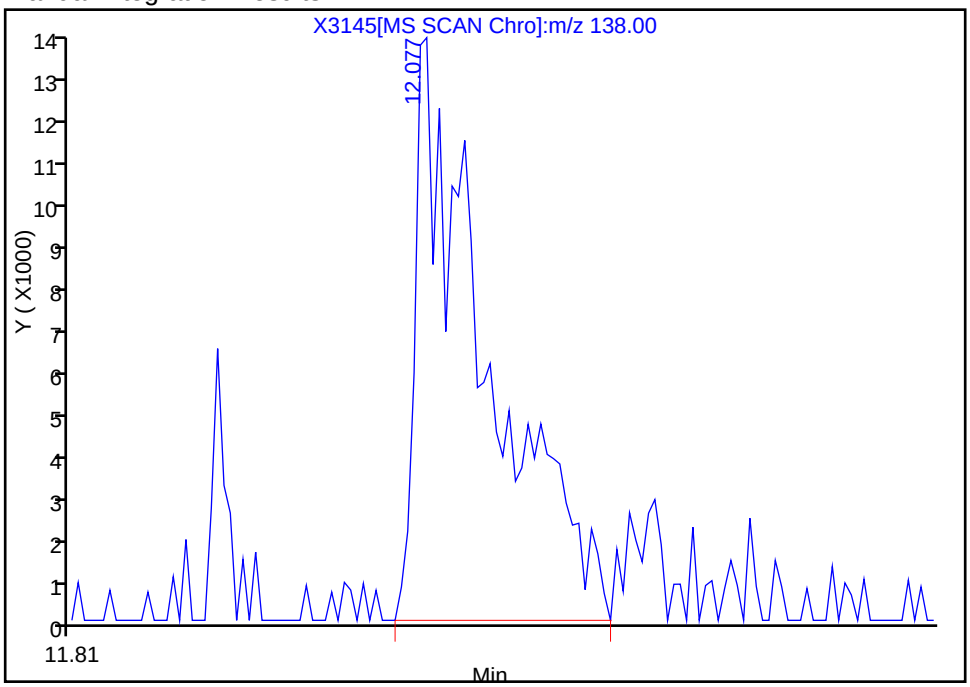
Processing Integration Results

RT: 12.08
Response: 17185
Amount: 0.485723



Manual Integration Results

RT: 12.08
Response: 48326
Amount: 1.716484



Reviewer: mckernar, 19-Dec-2012 09:00:44
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 11-Mar-2013 09:26:23 Chrom Revision: 2.0 01-Feb-2013 10:03:10

Manual Integration/User Assign Peak Report

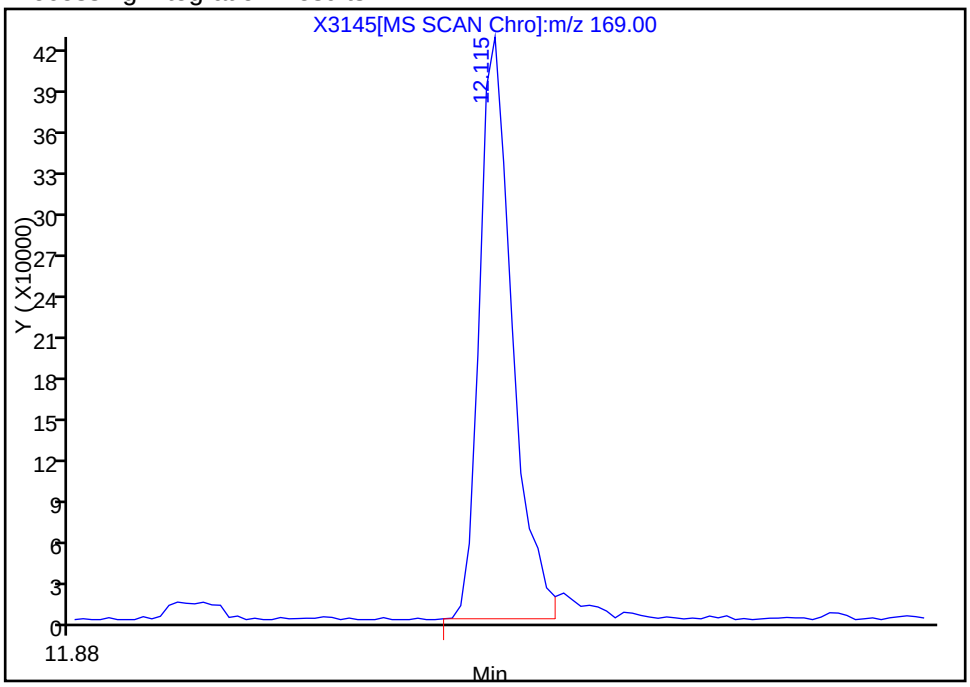
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3145.D		
Injection Date:	18-Dec-2012 18:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	16
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: 12.05

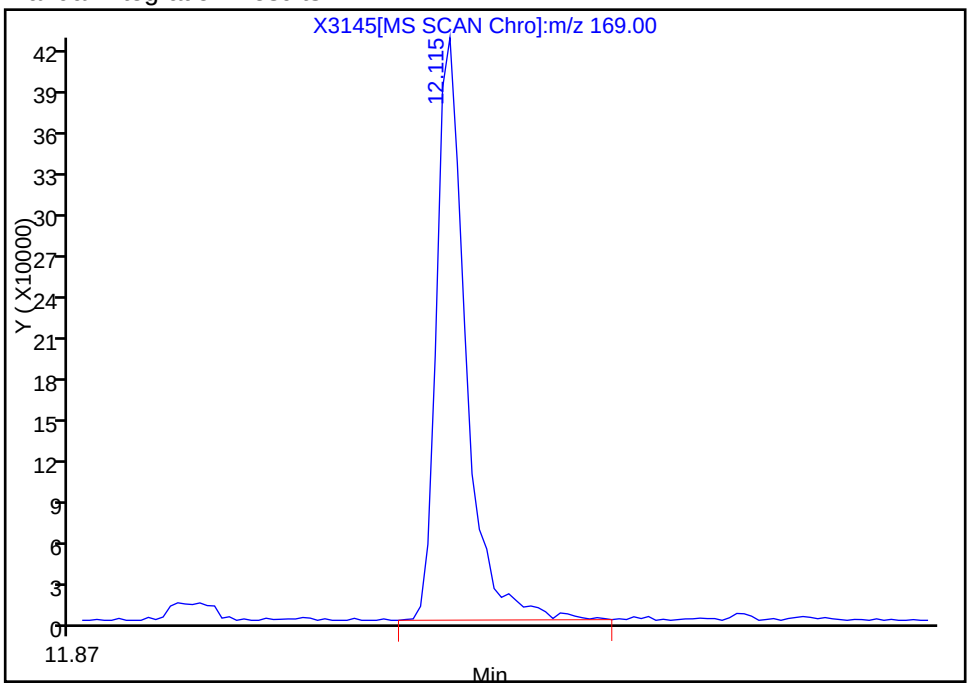
Processing Integration Results

RT: 12.11
Response: 532414
Amount: 2.373157



Manual Integration Results

RT: 12.11
Response: 558384
Amount: 2.701508



Reviewer: mckernar, 19-Dec-2012 09:00:44
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 11-Mar-2013 09:26:22 Chrom Revision: 2.0 01-Feb-2013 10:03:10

Manual Integration/User Assign Peak Report

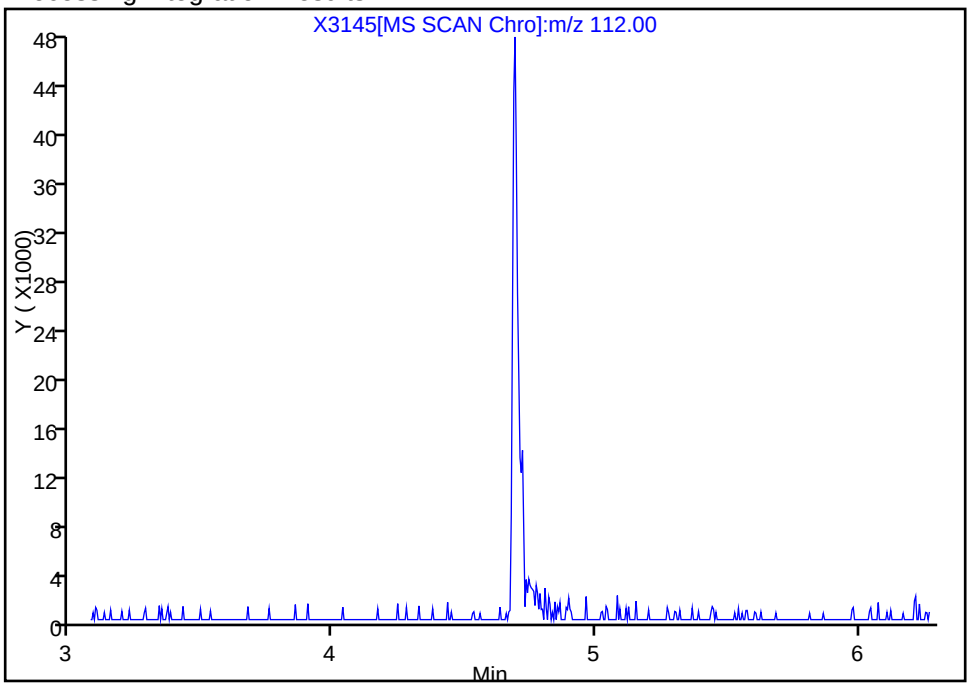
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3145.D		
Injection Date:	18-Dec-2012 18:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	16
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: 4.67

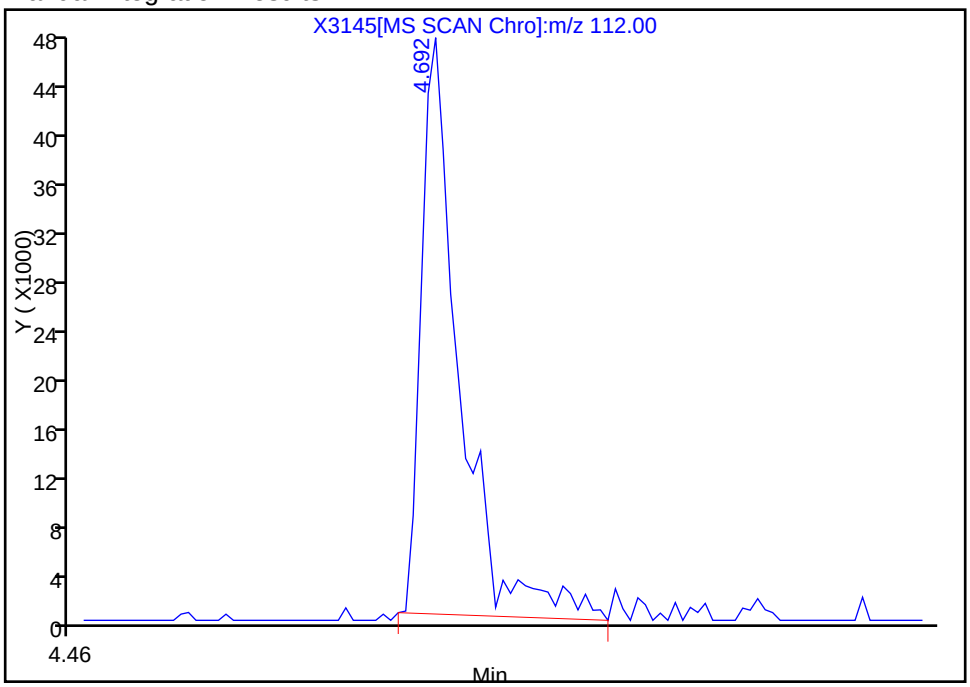
Processing Integration Results

Not Detected
Expected RT: 4.67



Manual Integration Results

RT: 4.69
Response: 79992
Amount: 1.414367



Reviewer: mckernar, 19-Dec-2012 09:00:44
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 11-Mar-2013 09:26:22 Chrom Revision: 2.0 01-Feb-2013 10:03:10

Manual Integration/User Assign Peak Report

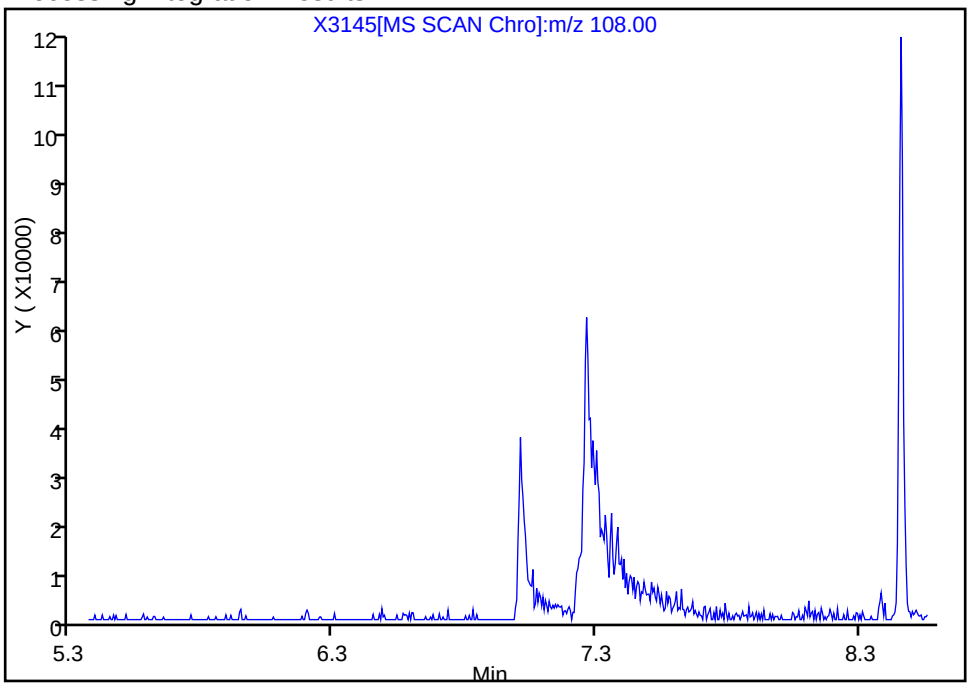
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3145.D		
Injection Date:	18-Dec-2012 18:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	16
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: 6.96

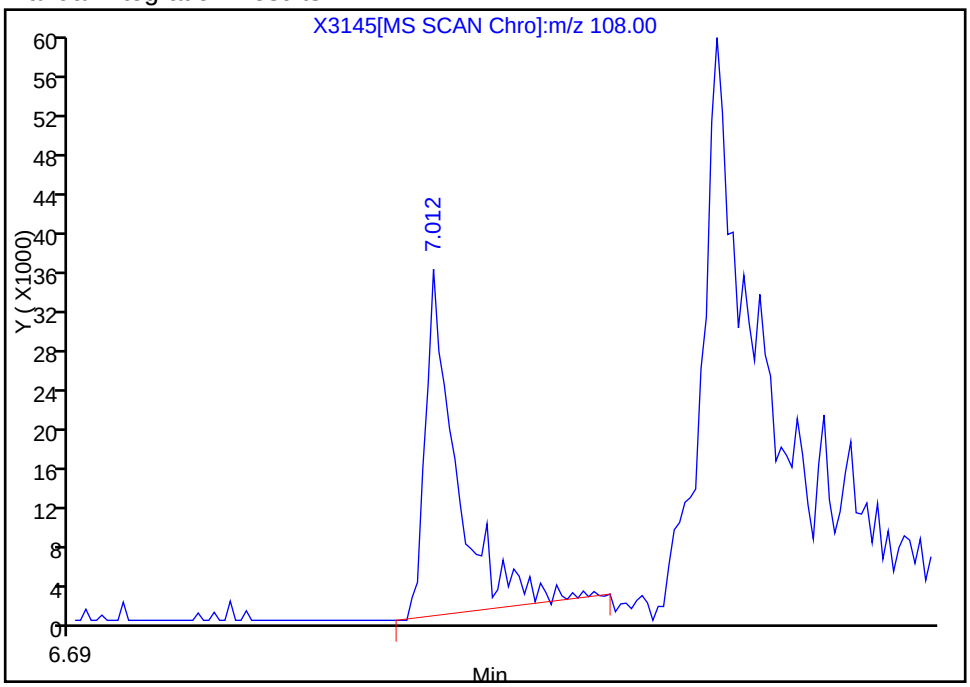
Processing Integration Results

Not Detected
Expected RT: 6.96



Manual Integration Results

RT: 7.01
Response: 67298
Amount: 1.242272



Reviewer: mckernar, 19-Dec-2012 09:00:44
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 11-Mar-2013 09:26:23 Chrom Revision: 2.0 01-Feb-2013 10:03:10

Manual Integration/User Assign Peak Report

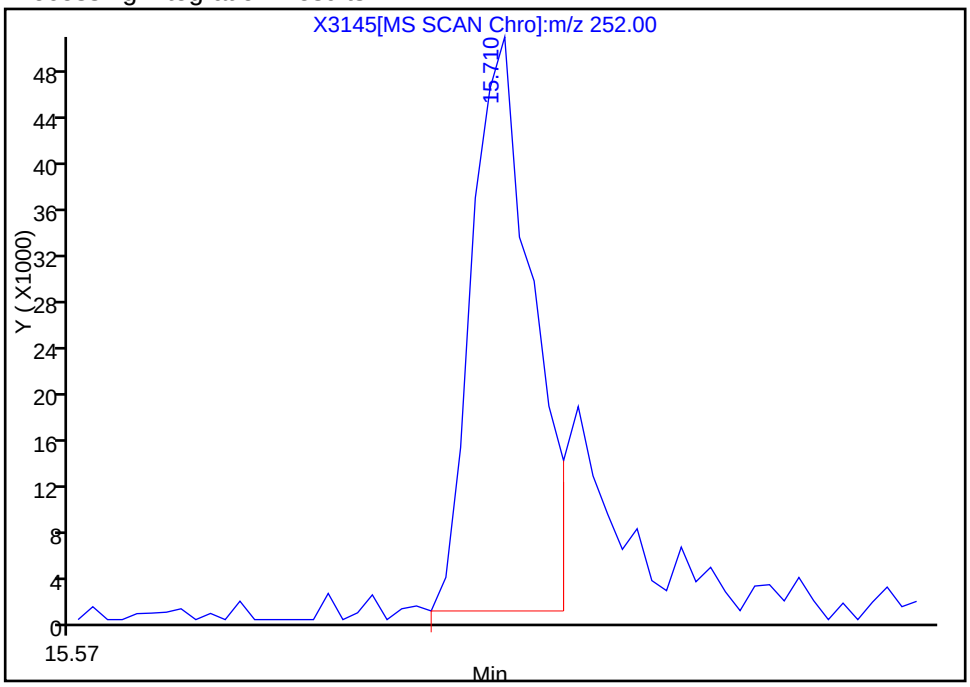
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3145.D		
Injection Date:	18-Dec-2012 18:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	16
Operator ID:	ANM	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

109 3,3'-Dichlorobenzidine, Signal: 1, m/z: 252.0 Type: quant, RT: 15.69

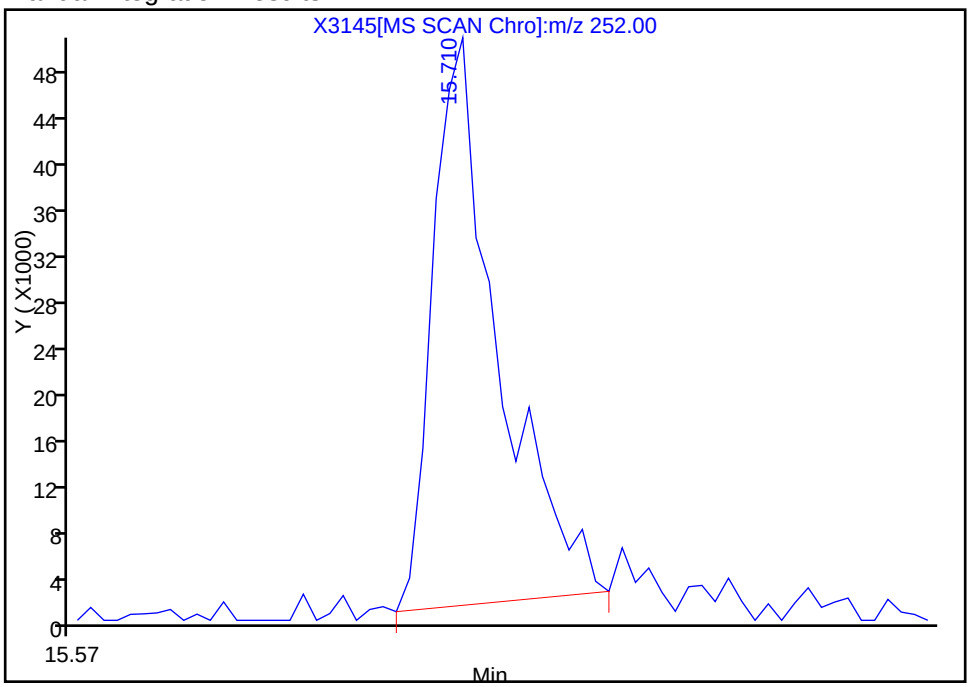
Processing Integration Results

RT: 15.71
Response: 68147
Amount: 1.006263



Manual Integration Results

RT: 15.71
Response: 79433
Amount: 1.292302



Reviewer: mckernar, 19-Dec-2012 09:00:44
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 11-Mar-2013 09:26:23 Chrom Revision: 2.0 01-Feb-2013 10:03:10

Manual Integration/User Assign Peak Report

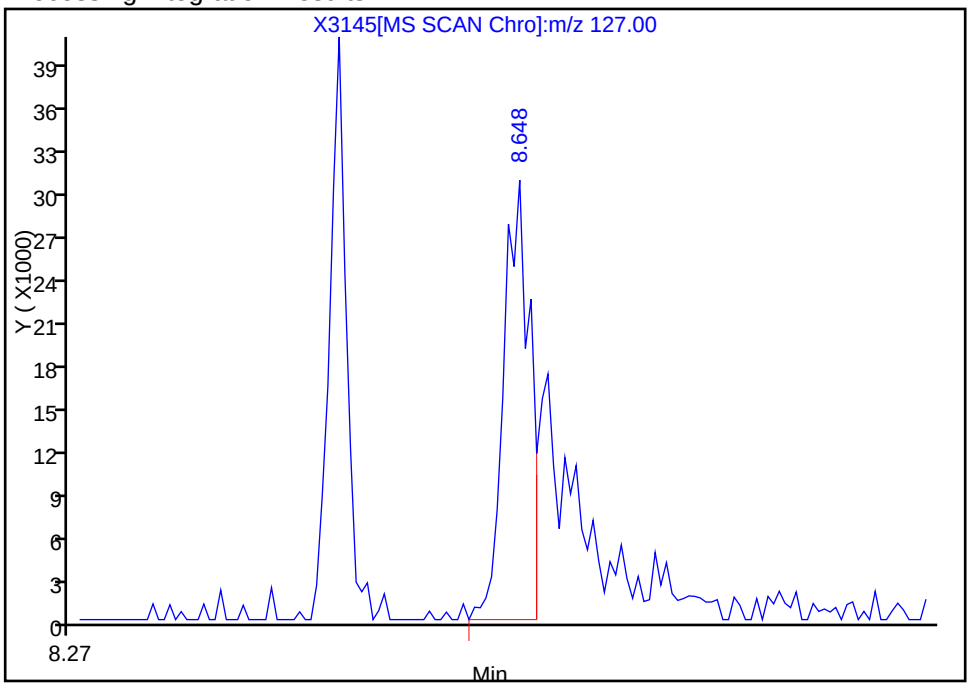
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3145.D		
Injection Date:	18-Dec-2012 18:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	16
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: 8.59

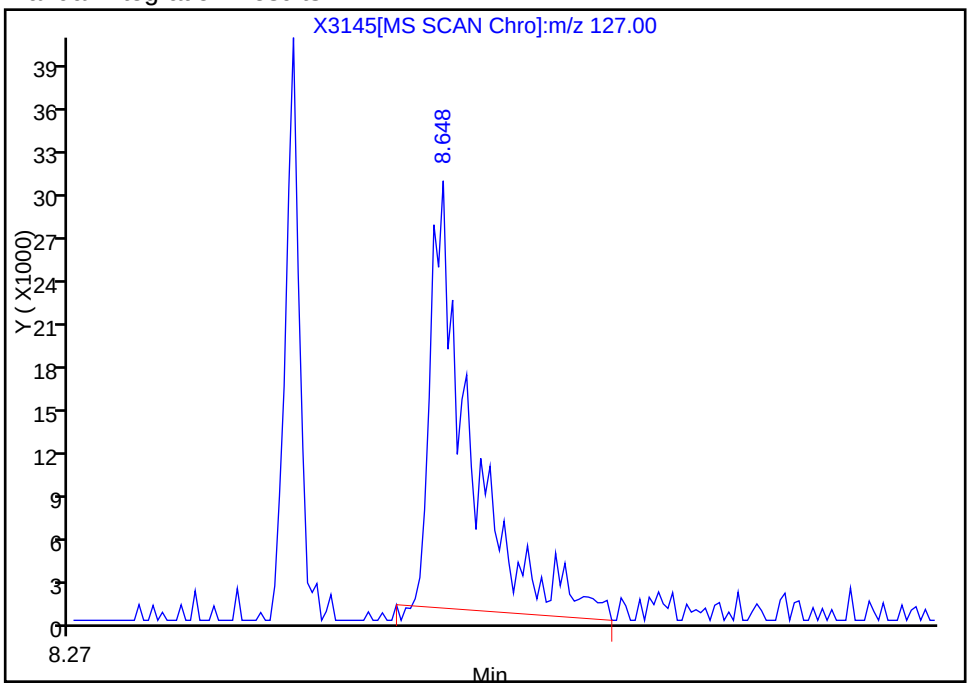
Processing Integration Results

RT: 8.65
Response: 46556
Amount: 0.570359



Manual Integration Results

RT: 8.65
Response: 82257
Amount: 1.145535



Reviewer: mckernar, 19-Dec-2012 09:00:44
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

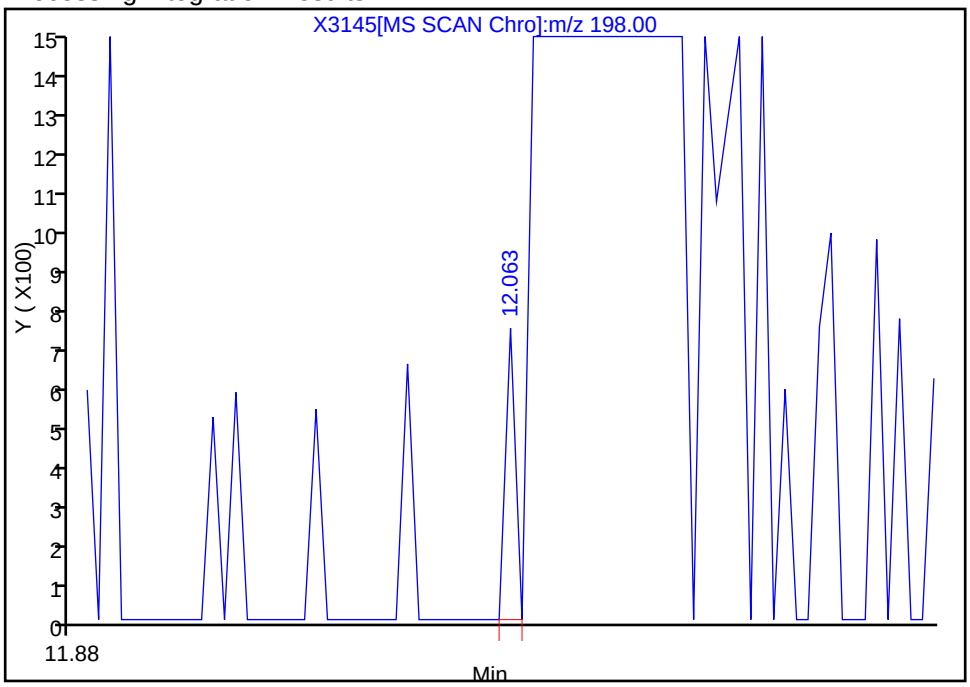
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3145.D		
Injection Date:	18-Dec-2012 18:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	16
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: 11.98

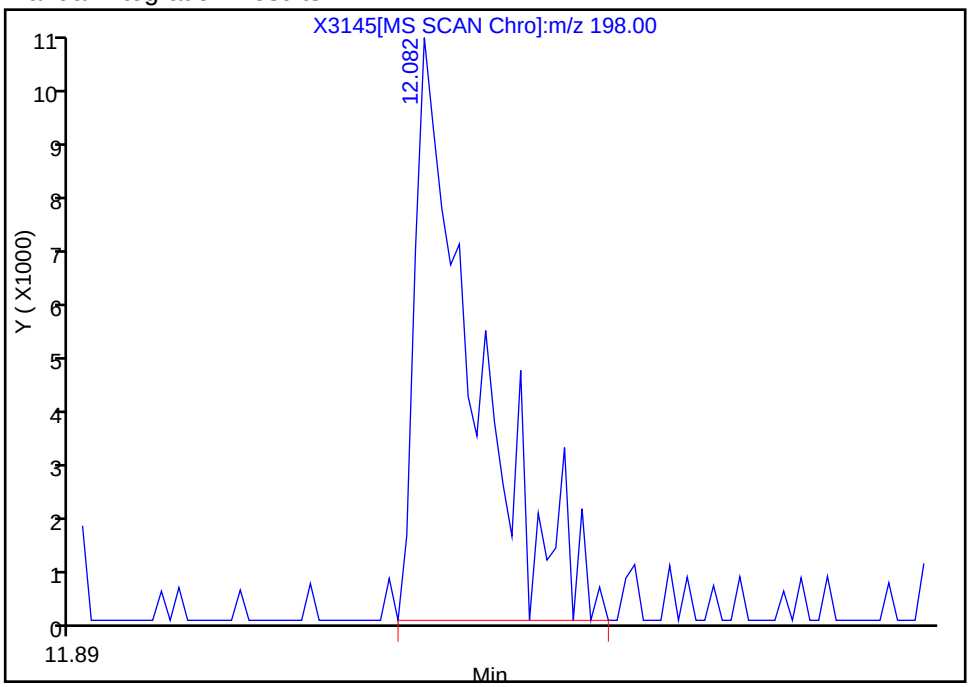
Processing Integration Results

RT: 12.06
Response: 208
Amount: 0.009093



Manual Integration Results

RT: 12.08
Response: 22776
Amount: 1.893192



Reviewer: mckernar, 19-Dec-2012 09:00:44
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

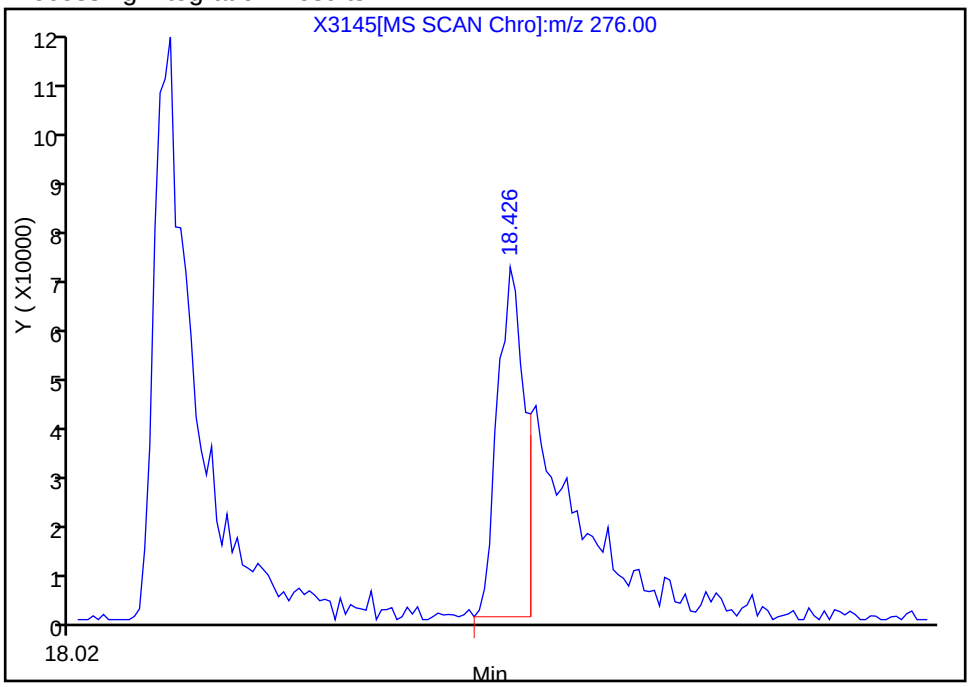
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3145.D		
Injection Date:	18-Dec-2012 18:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	16
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: 18.41

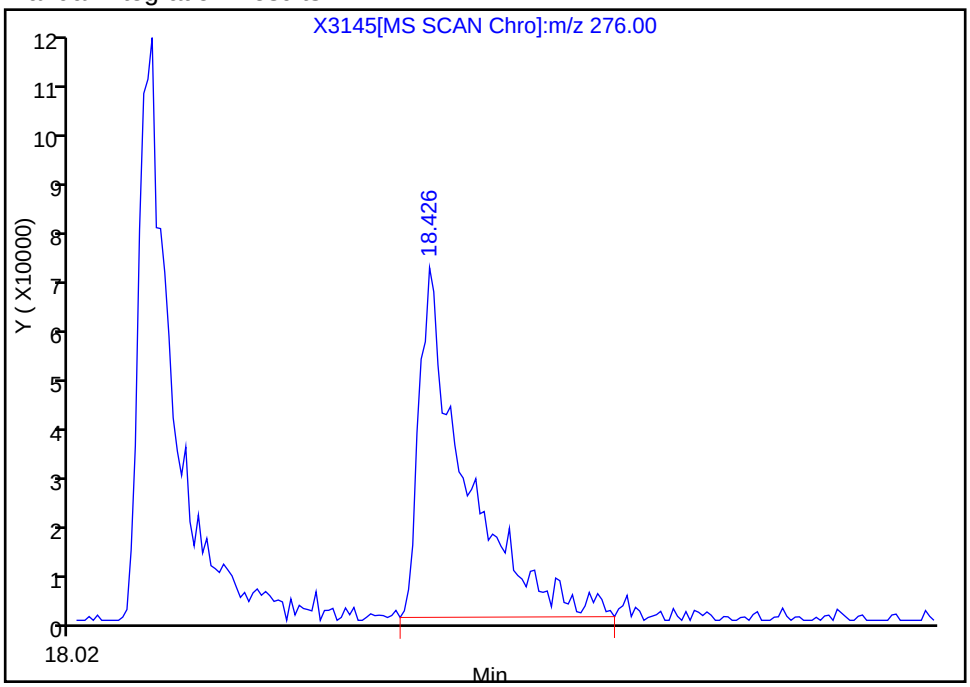
Processing Integration Results

RT: 18.43
Response: 119400
Amount: 0.887015



Manual Integration Results

RT: 18.43
Response: 246283
Amount: 1.864334



Reviewer: mckernar, 19-Dec-2012 09:00:44
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

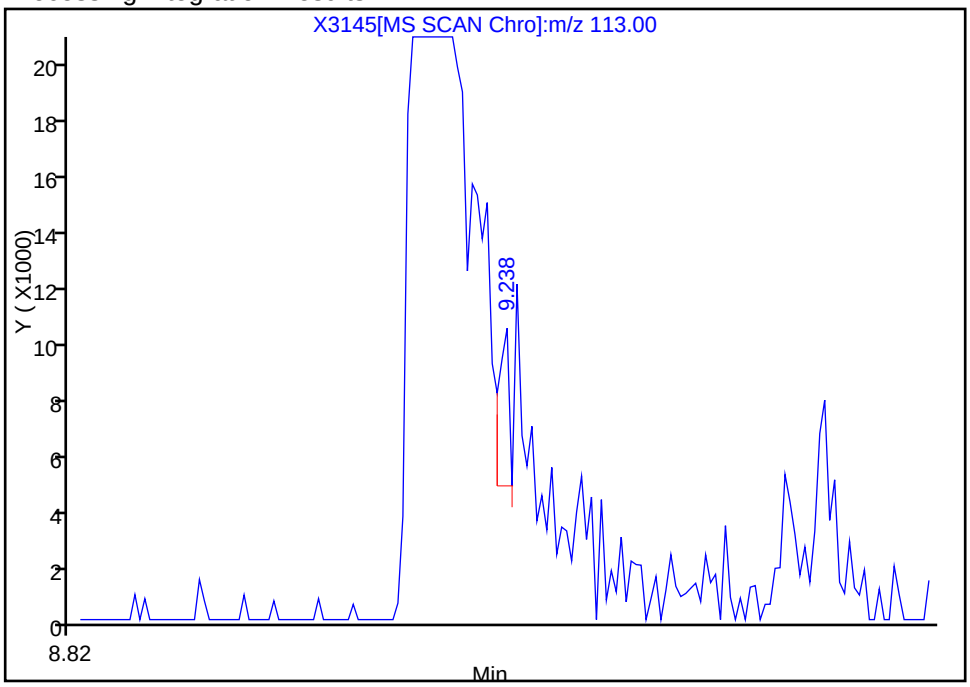
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3145.D		
Injection Date:	18-Dec-2012 18:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	16
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: 9.11

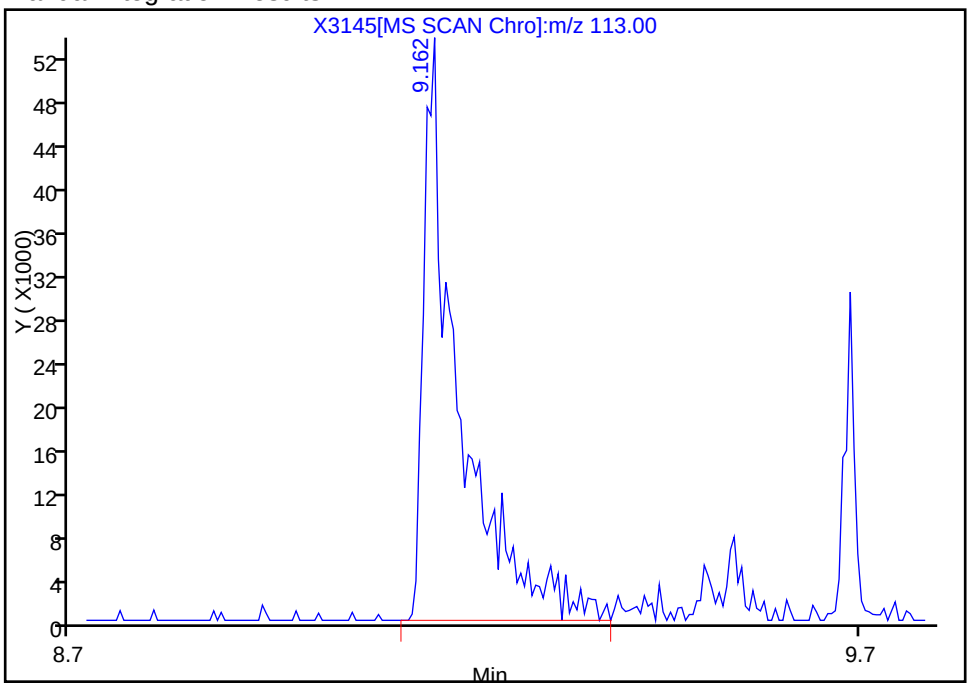
Processing Integration Results

RT: 9.24
Response: 3756
Amount: 0.202734



Manual Integration Results

RT: 9.16
Response: 166166
Amount: 9.374218



Reviewer: mckernar, 19-Dec-2012 09:00:44
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 11-Mar-2013 09:26:23 Chrom Revision: 2.0 01-Feb-2013 10:03:10

Manual Integration/User Assign Peak Report

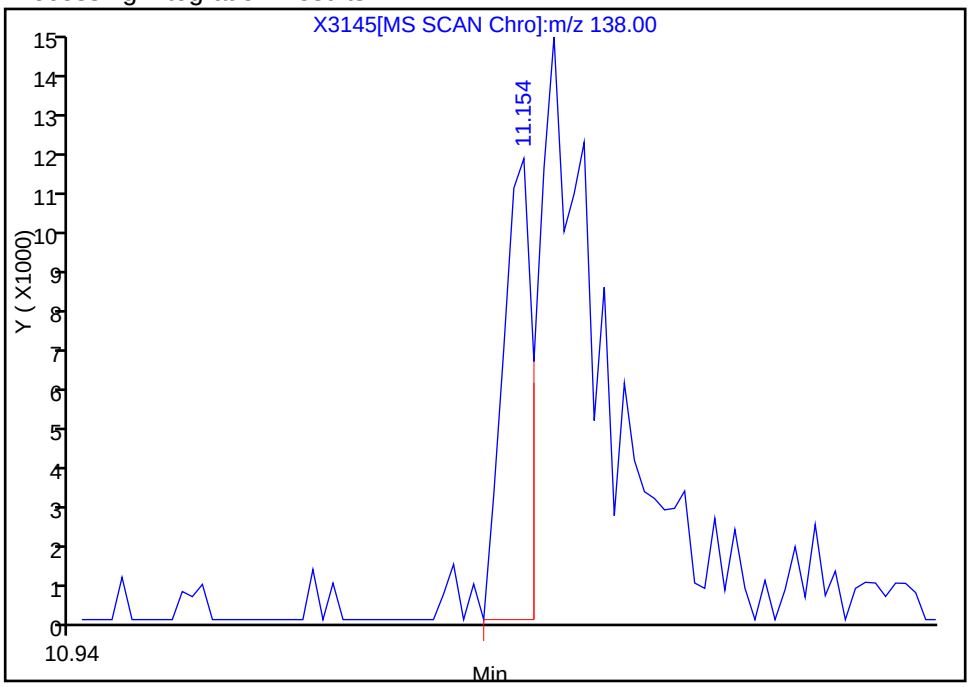
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3145.D		
Injection Date:	18-Dec-2012 18:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	16
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: 11.04

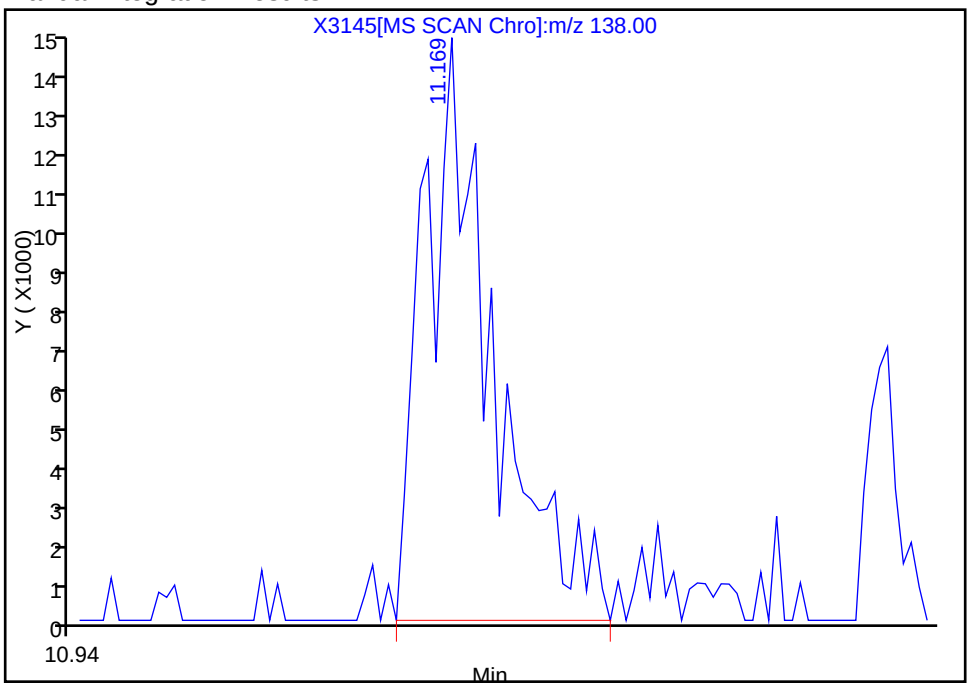
Processing Integration Results

RT: 11.15
Response: 11086
Amount: 0.345848



Manual Integration Results

RT: 11.17
Response: 41730
Amount: 1.309805



Reviewer: mckernar, 19-Dec-2012 09:00:44
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

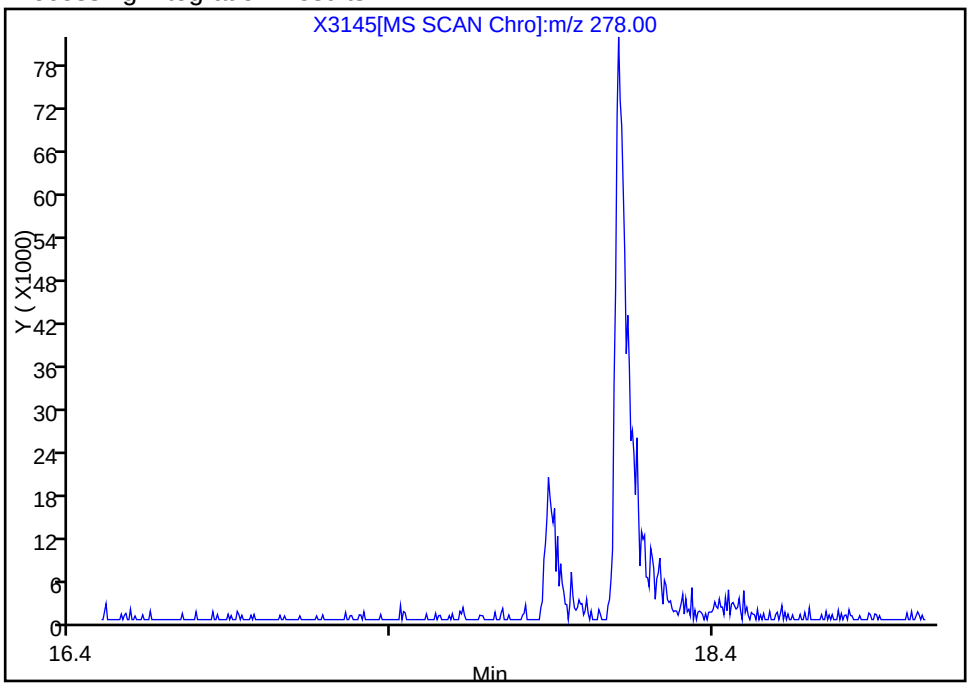
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3145.D		
Injection Date:	18-Dec-2012 18:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	16
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: 18.09

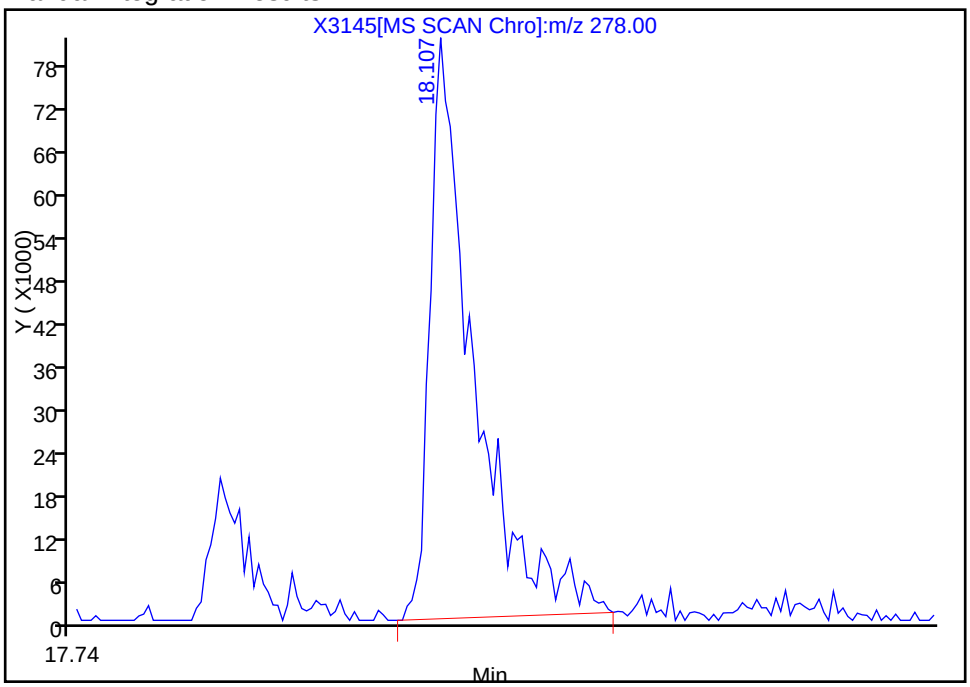
Processing Integration Results

Not Detected
Expected RT: 18.09



Manual Integration Results

RT: 18.11
Response: 246404
Amount: 1.833889



Reviewer: mckernar, 19-Dec-2012 09:00:44
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

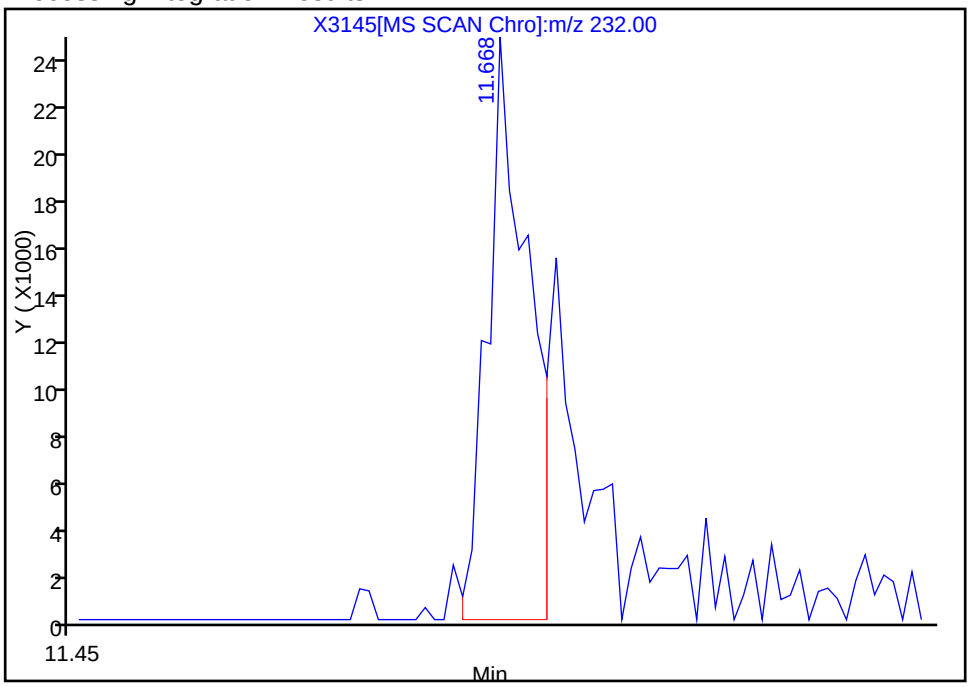
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3145.D		
Injection Date:	18-Dec-2012 18:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	16
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: 11.56

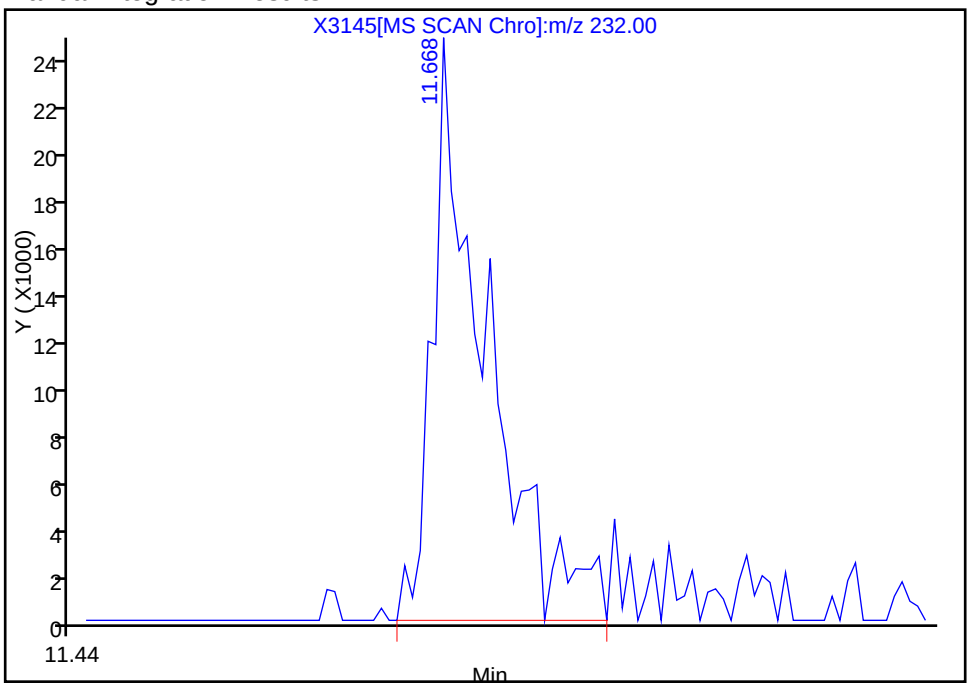
Processing Integration Results

RT: 11.67
Response: 35093
Amount: 1.506069



Manual Integration Results

RT: 11.67
Response: 55192
Amount: 2.246033



Reviewer: mckernar, 19-Dec-2012 09:00:44
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

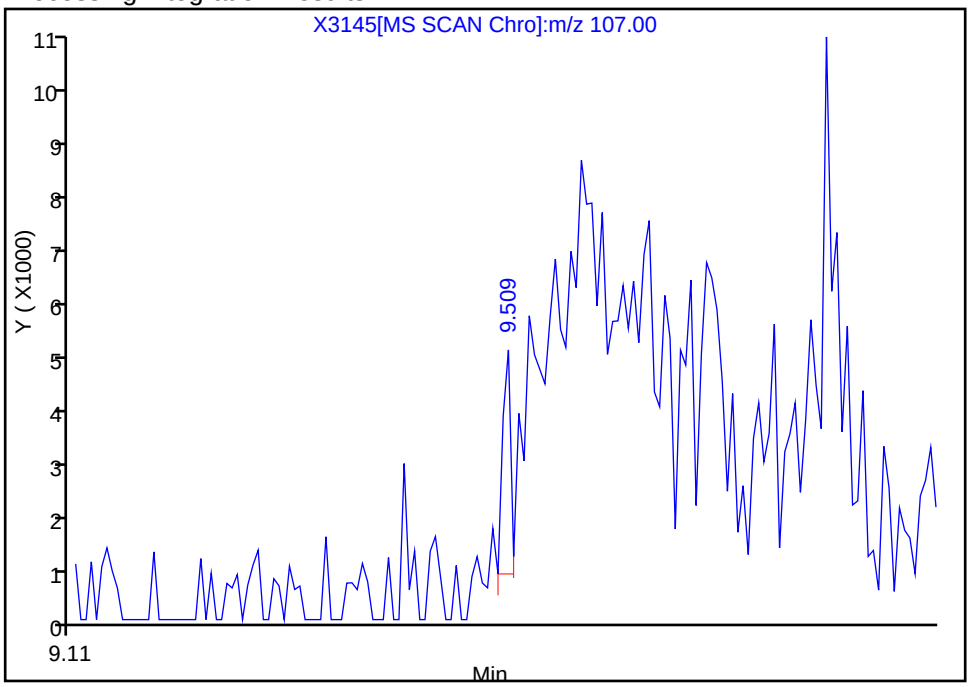
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3145.D		
Injection Date:	18-Dec-2012 18:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	16
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: 9.37

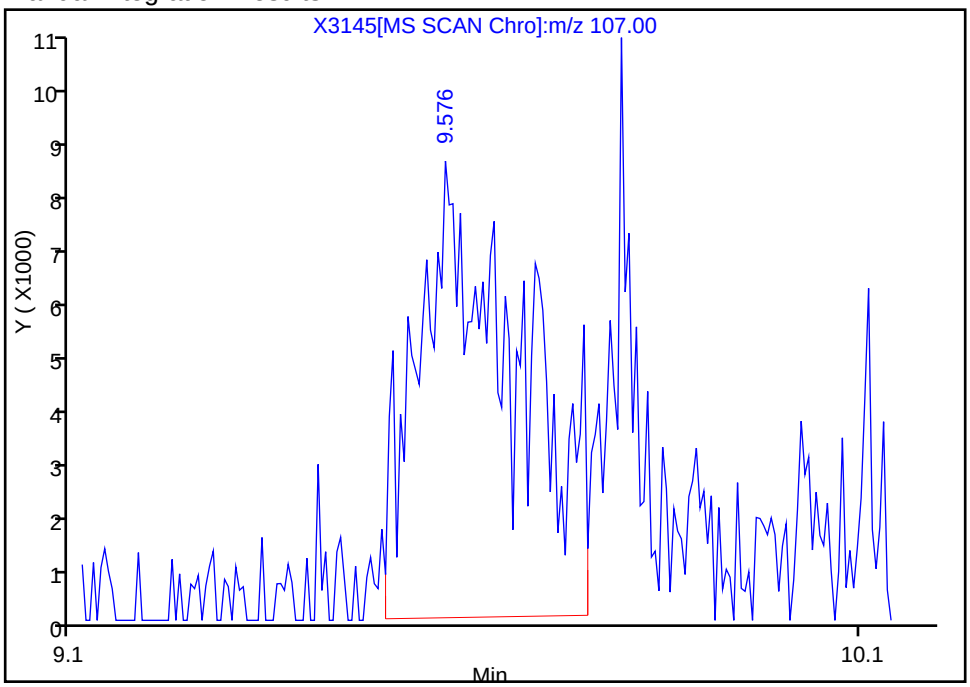
Processing Integration Results

RT: 9.51
Response: 2128
Amount: 0.035064



Manual Integration Results

RT: 9.58
Response: 74607
Amount: 1.386594



Reviewer: mckernar, 19-Dec-2012 09:00:44
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Report Date: 11-Mar-2013 09:26:23 Chrom Revision: 2.0 01-Feb-2013 10:03:10

Manual Integration/User Assign Peak Report

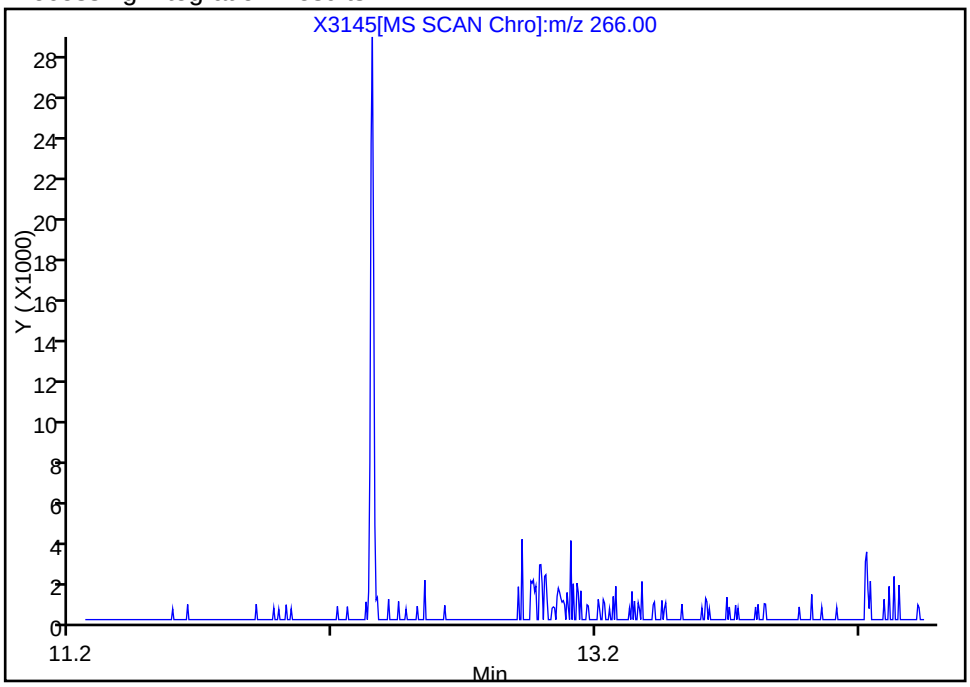
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3145.D		
Injection Date:	18-Dec-2012 18:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	16
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: 12.85

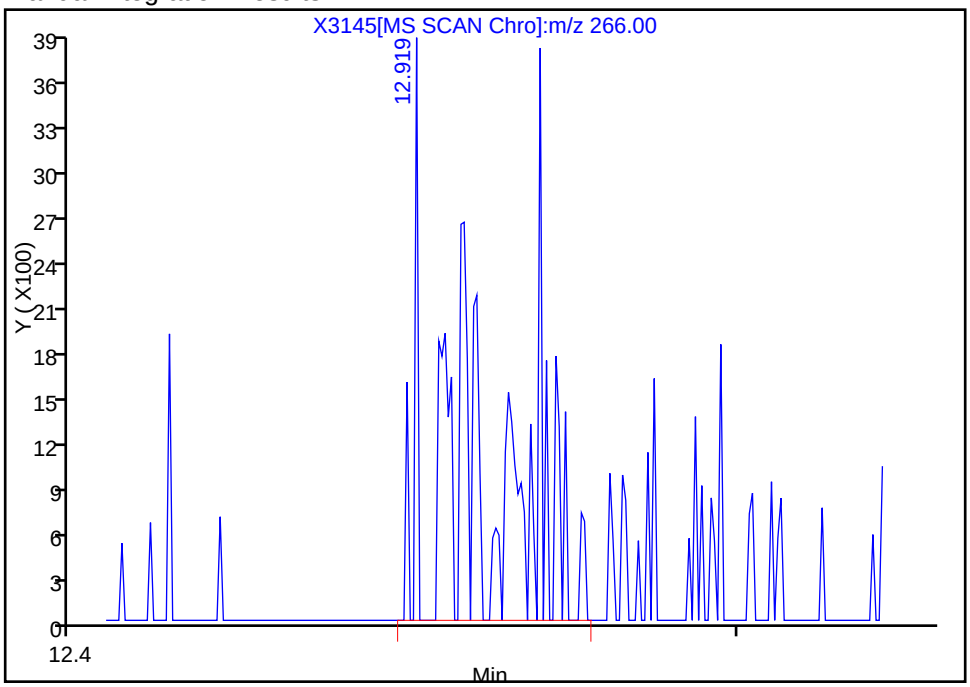
Processing Integration Results

Not Detected
Expected RT: 12.85



Manual Integration Results

RT: 12.92
Response: 13938
Amount: 1.658682



Reviewer: mckernar, 19-Dec-2012 09:00:44
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

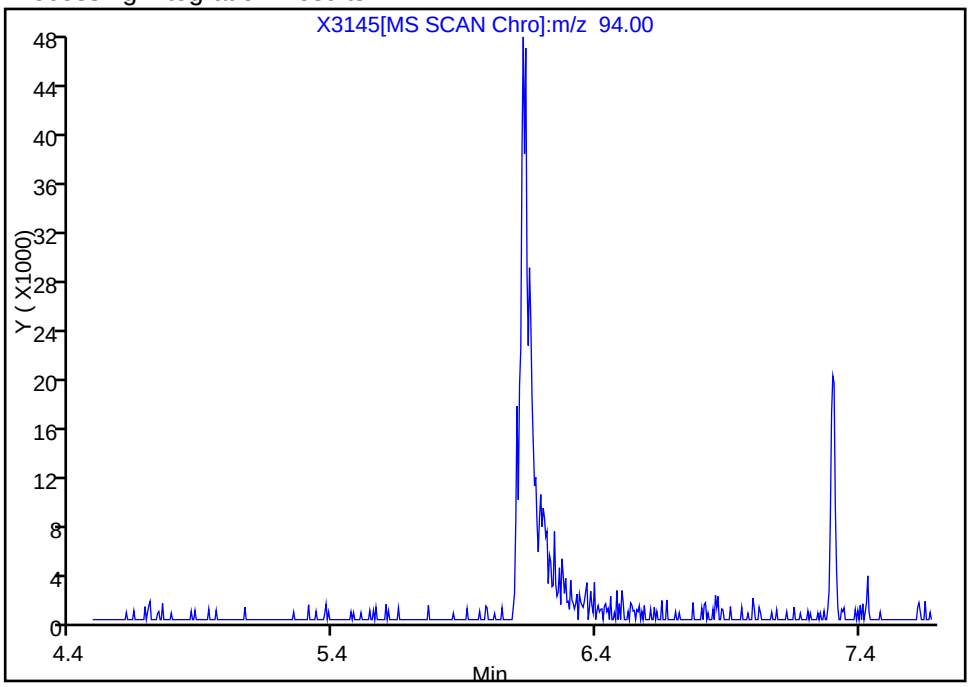
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3145.D		
Injection Date:	18-Dec-2012 18:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	16
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: 6.08

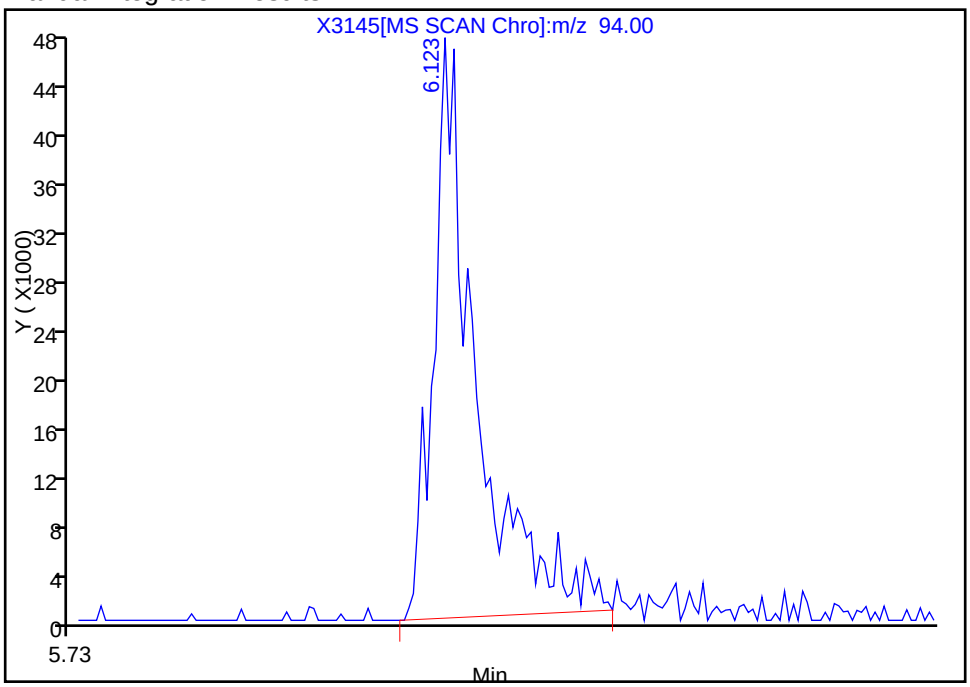
Processing Integration Results

Not Detected
Expected RT: 6.08



Manual Integration Results

RT: 6.12
Response: 148571
Amount: 1.957021



Reviewer: mckernar, 19-Dec-2012 09:00:44
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

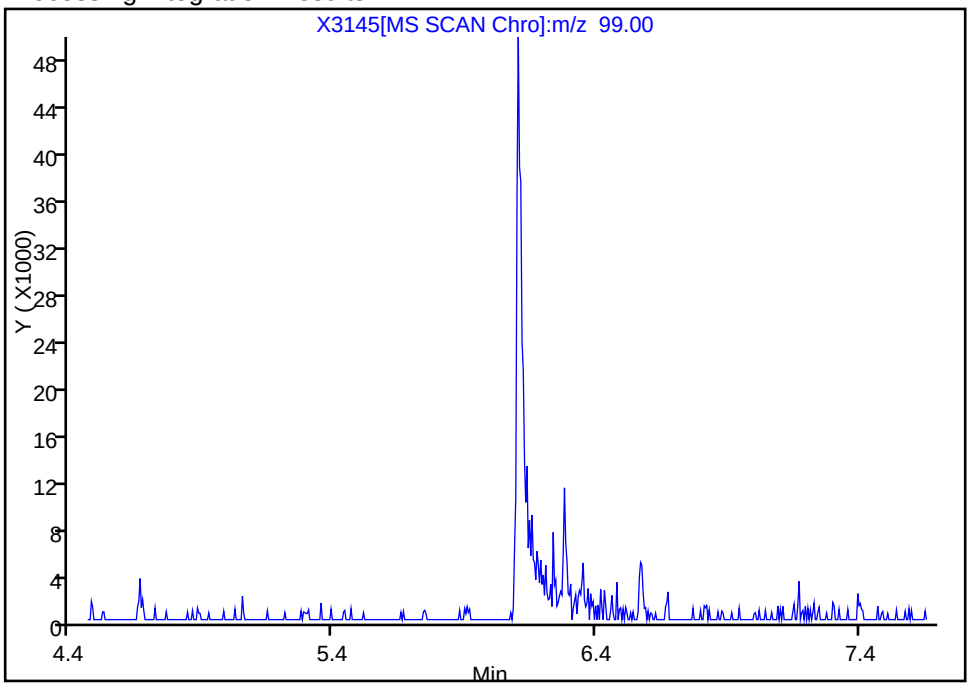
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3145.D		
Injection Date:	18-Dec-2012 18:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	16
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: 6.06

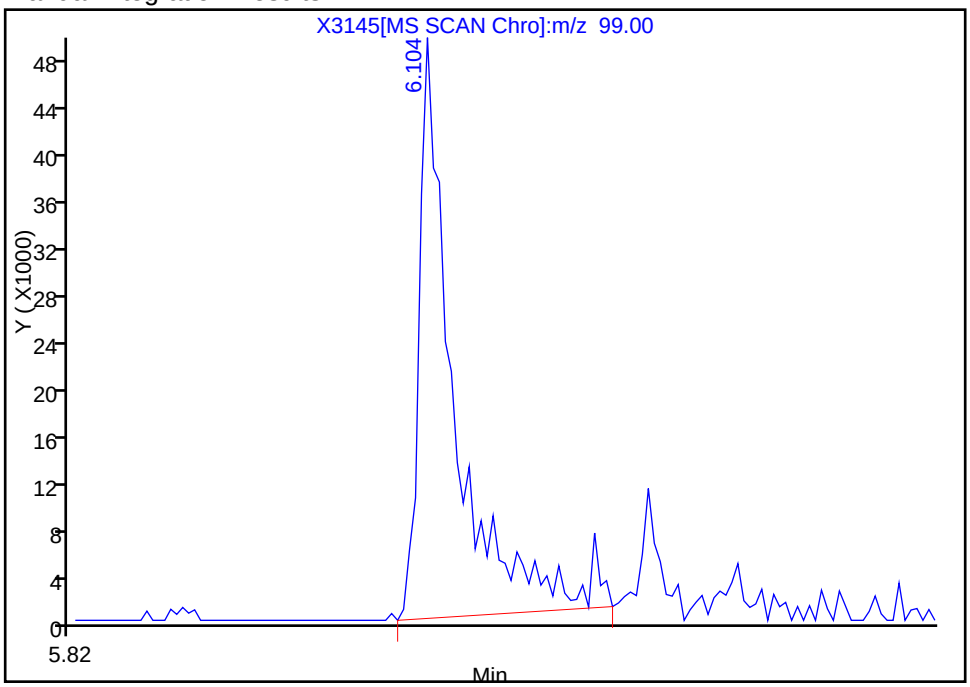
Processing Integration Results

Not Detected
Expected RT: 6.06



Manual Integration Results

RT: 6.10
Response: 97064
Amount: 1.410113



Reviewer: mckernar, 19-Dec-2012 09:00:44
Audit Action: Manually Integrated
Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

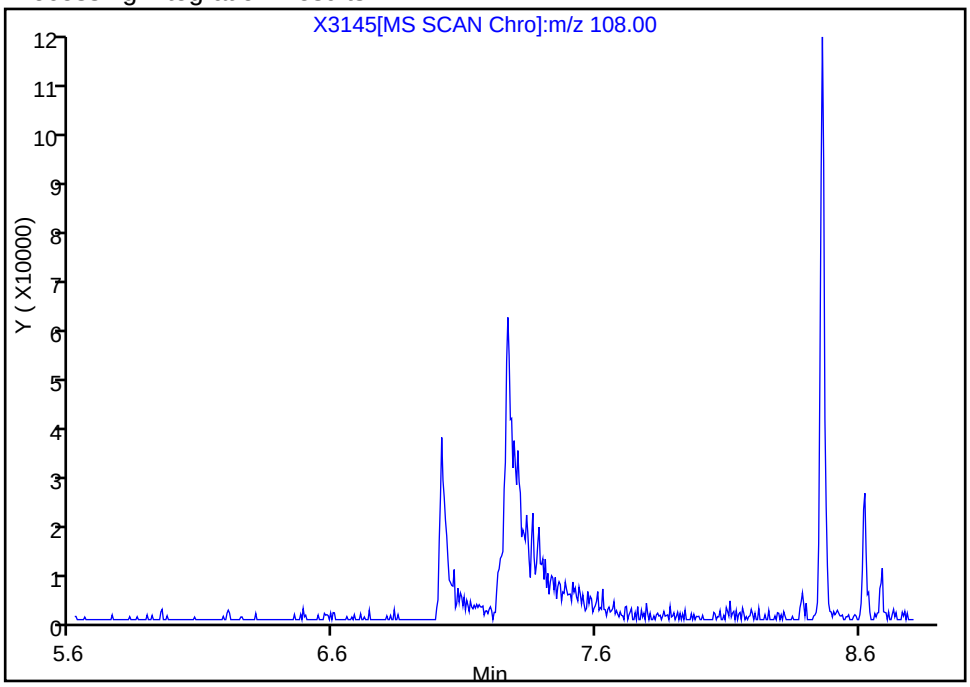
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20121218-17654.b\X3145.D		
Injection Date:	18-Dec-2012 18:10:30	Limit Group:	MB - 8270RCP_MCP ICAL
Client ID:		Instrument ID:	HP5973X
Lims Batch ID:	96347	Lims Sample ID:	16
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: 7.21

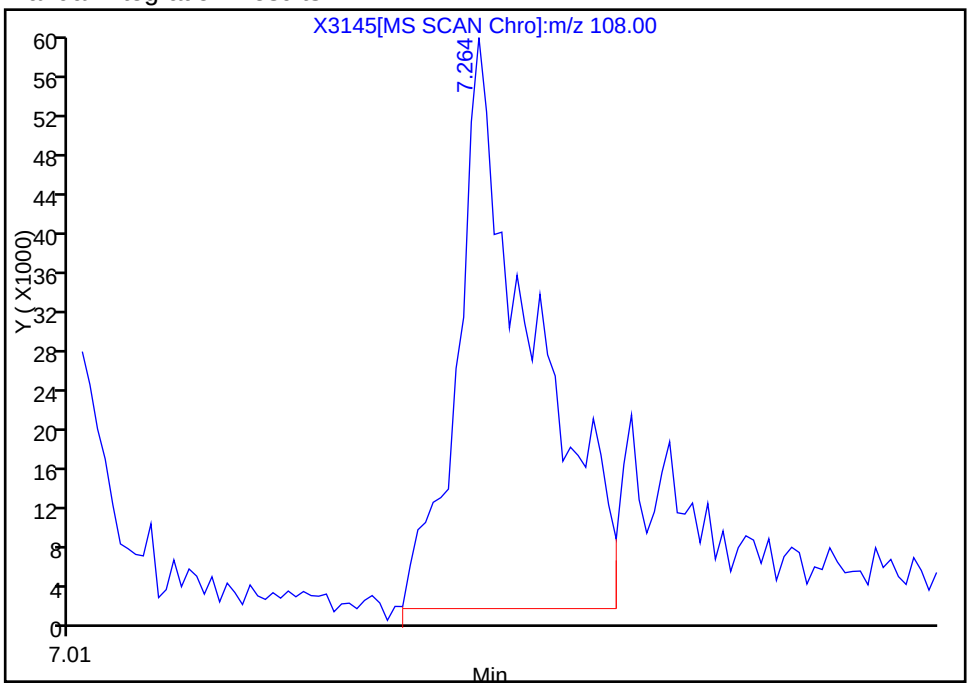
Processing Integration Results

Not Detected
Expected RT: 7.21



Manual Integration Results

RT: 7.26
Response: 187914
Amount: 3.424991



Reviewer: mckernar, 19-Dec-2012 09:00:44
Audit Action: Manually Integrated
Audit Reason: Assign Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-29598-1

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	X3140.D	RXI-5Sil MS 0.25(mm)
CCVIS 480-96347/13		12/18/2012 16:53	1	X3142.D	RXI-5Sil MS 0.25(mm)
MB 480-95170/1-A		12/18/2012 17:19	1	X3143.D	RXI-5Sil MS 0.25(mm)
LCS 480-95170/2-A		12/18/2012 17:44	1	X3144.D	RXI-5Sil MS 0.25(mm)
LCSD 480-95170/3-A		12/18/2012 18:10	1	X3145.D	RXI-5Sil MS 0.25(mm)
480-29598-3	OC-SB-526-0.0/1.0-XXX	12/18/2012 18:35	1	X3146.D	RXI-5Sil MS 0.25(mm)
480-29598-4	OC-SB-526-1.0/3.0-XXX	12/18/2012 19:00	1	X3147.D	RXI-5Sil MS 0.25(mm)
480-29598-7	OC-SB-528-0.0/1.0-XXX	12/18/2012 19:26	20	X3148.D	RXI-5Sil MS 0.25(mm)
480-29598-8	OC-SB-528-1.0/3.0-XXX	12/18/2012 19:51	20	X3149.D	RXI-5Sil MS 0.25(mm)
480-29598-9	OC-SB-529-0.0/1.0-XXX	12/18/2012 20:16	1	X3150.D	RXI-5Sil MS 0.25(mm)
480-29598-10	OC-SB-529-1.0/3.0-XXX	12/18/2012 20:42	1	X3151.D	RXI-5Sil MS 0.25(mm)
ZZZZZ		12/18/2012 21:07	1		RXI-5Sil MS 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-29598-1

SDG No.:

Batch Number: 95170 Batch Start Date: 12/11/12 08:50 Batch Analyst: Evers, David

Batch Method: 3546 Batch End Date: 12/11/12 14:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	O_8270ApixSS 00006	O_8270full#2 00031	O_8270LLspike 00003	O_8270LLsurr 00003
MB 480-95170/1		3546, 8270D		000030.8 g	1 mL				1 mL
LCS 480-95170/2		3546, 8270D		000030.4 g	1 mL	0.1 mL	0.1 mL	1 mL	1 mL
LCSD 480-95170/3		3546, 8270D		000030.4 g	1 mL	0.1 mL	0.1 mL	1 mL	1 mL
480-29598-B-3	OC-SB-526-0.0/1.0-XXX	3546, 8270D	T	000030.5 g	1 mL				1 mL
480-29598-C-4	OC-SB-526-1.0/3.0-XXX	3546, 8270D	T	000030.5 g	1 mL				1 mL
480-29598-D-7	OC-SB-528-0.0/1.0-XXX	3546, 8270D	T	000030.6 g	1 mL				1 mL
480-29598-E-8	OC-SB-528-1.0/3.0-XXX	3546, 8270D	T	000030.8 g	1 mL				1 mL
480-29598-B-9	OC-SB-529-0.0/1.0-XXX	3546, 8270D	T	000030.1 g	1 mL				1 mL
480-29598-B-10	OC-SB-529-1.0/3.0-XXX	3546, 8270D	T	000030.1 g	1 mL				1 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	O_OlinLCSspik 00001					
MB 480-95170/1		3546, 8270D							
LCS 480-95170/2		3546, 8270D		0.1 mL					
LCSD 480-95170/3		3546, 8270D		0.1 mL					
480-29598-B-3	OC-SB-526-0.0/1.0-XXX	3546, 8270D	T						
480-29598-C-4	OC-SB-526-1.0/3.0-XXX	3546, 8270D	T						
480-29598-D-7	OC-SB-528-0.0/1.0-XXX	3546, 8270D	T						
480-29598-E-8	OC-SB-528-1.0/3.0-XXX	3546, 8270D	T						
480-29598-B-9	OC-SB-529-0.0/1.0-XXX	3546, 8270D	T						
480-29598-B-10	OC-SB-529-1.0/3.0-XXX	3546, 8270D	T						

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.: 480-29598-1

SDG No.:

Batch Number: 95170 Batch Start Date: 12/11/12 08:50 Batch Analyst: Evers, David

Batch Method: 3546 Batch End Date: 12/11/12 14:45

Batch Notes	
Acetone Lot #	K47E44
Balance ID	14552245
Person's name who did the concentration	CM
Final Concentrator Volume	1 mL
MeCL2 Lot #	0000021508
Microwave Start Time	10:27
Microwave Stop Time	11:17
Na2SO4 Lot Number	27862007
Ottawa Sand Lot #	89090
Person's name who did the prep	DLE CM
Person who witnessed spiking	CM

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 Organotins

Organotins (GC/FPD) by Method Organotins

FORM II
GC SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): RTX-35 ID: 0.32 (mm) GC Column (2): RTX-5 ID: 0.32 (mm)

Client Sample ID	Lab Sample ID	TPT1 #	TPT2 #
OC-SB-528-0.0/1.0-XXX	480-29598-7	92	83
OC-SB-528-1.0/3.0-XXX	480-29598-8	81	69
OC-DUP-2	480-29598-11	81	82
	MB 200-49268/1-A	76	76
	MB 200-49894/1-A	69	76
	LCS 200-49268/2-A	84	77
	LCS 200-49894/2-A	82	76
OC-SB-528-1.0/3.0-XXX MS	480-29598-8 MS	88	68
OC-SB-528-1.0/3.0-XXX MSD	480-29598-8 MSD	83	65

	QC LIMITS
TPT = Tripentyltin	30-120

Column to be used to flag recovery values

FORM III
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 11dec121807-r101.d

Lab ID: LCS 200-49268/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Tributyltin	14.8	12.5	84	30-160	

Column to be used to flag recovery and RPD values

FORM III Organotins/GC

FORM III
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 26dec121110-r041.d

Lab ID: LCS 200-49894/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Tributyltin	14.9	11.7	78	30-160	

Column to be used to flag recovery and RPD values

FORM III Organotins/GC

FORM III
GC SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 26dec121110-r071.d

Lab ID: 480-29598-8 MS Client ID: OC-SB-528-1.0/3.0-XXX MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Tributyltin	41.8	ND	29.2	70	30-160	

Column to be used to flag recovery and RPD values

FORM III Organotins/GC

FORM III
GC SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 26dec121110-r061.d

Lab ID: 480-29598-8 MSD Client ID: OC-SB-528-1.0/3.0-XXX MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Tributyltin	41.6	29.7	71	2	30	30-160	

Column to be used to flag recovery and RPD values

FORM III Organotins/GC

FORM IV
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Lab Sample ID: MB 200-49268/1-A

Matrix: Solid Date Extracted: 12/10/2012 18:10

Lab File ID:(1) 11dec121807-r091.d Lab File ID:(2) 11dec121807-r091.d

Date Analyzed:(1) 12/11/2012 22:31 Date Analyzed:(2) 12/11/2012 22:31

Instrument ID:(1) 2860.i Instrument ID:(2) 2860.i

GC Column:(1) RTX-35 ID: 0.32(mm) GC Column:(2) RTX-5 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 200-49268/2-A	12/11/2012 22:48	12/11/2012 22:48
OC-SB-528-0.0/1.0-XXX	480-29598-7	12/11/2012 23:05	12/11/2012 23:05
OC-DUP-2	480-29598-11	12/11/2012 23:39	12/11/2012 23:39

FORM IV
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Lab Sample ID: MB 200-49894/1-A

Matrix: Solid Date Extracted: 12/22/2012 08:12

Lab File ID:(1) 26dec121110-r031.d Lab File ID:(2) 26dec121110-r031.d

Date Analyzed:(1) 12/26/2012 11:46 Date Analyzed:(2) 12/26/2012 11:46

Instrument ID:(1) 2860.i Instrument ID:(2) 2860.i

GC Column:(1) RTX-35 ID: 0.32(mm) GC Column:(2) RTX-5 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 200-49894/2-A	12/26/2012 12:03	12/26/2012 12:03
OC-SB-528-1.0/3.0-XXX	480-29598-8	12/26/2012 12:20	12/26/2012 12:20
OC-SB-528-1.0/3.0-XXX MSD	480-29598-8 MSD	12/26/2012 12:37	12/26/2012 12:37
OC-SB-528-1.0/3.0-XXX MS	480-29598-8 MS	12/26/2012 12:54	12/26/2012 12:54

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

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Sample No.: ICRT 200-49433/3 Date Analyzed: 12/11/2012 18:52

Instrument ID: 2860.i GC Column: RTX-35 ID: 0.32(mm)

Lab File ID (Standard): 11dec121742-r051.d Heated Purge: (Y/N) N

Calibration ID: 19596

		TPT					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION SURROGATE		127987	6.76				
UPPER LIMIT			6.81				
LOWER LIMIT			6.71				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 200-49448/8		139588	6.74				
MB 200-49268/1-A		214653	6.73				
LCS 200-49268/2-A		227318	6.74				
480-29598-7	OC-SB-528-0.0/1.0-XXX	239627	6.86*				
480-29598-11	OC-DUP-2	214098	6.75				
CCV 200-49448/19		151970	6.75				

TPT = Tripentyltin

TPT RT Limit = ± 0 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII ORGANOTINS/GC

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

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Sample No.: ICRT 200-49433/3 Date Analyzed: 12/11/2012 18:52

Instrument ID: 2860.i GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): 11dec121742-r051.d Heated Purge: (Y/N) N

Calibration ID: 19597

		TPT					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION SURROGATE		184337	7.73				
UPPER LIMIT			7.78				
LOWER LIMIT			7.68				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 200-49448/8		204794	7.70				
MB 200-49268/1-A		302601	7.69				
LCS 200-49268/2-A		297786	7.71				
480-29598-7	OC-SB-528-0.0/1.0-XXX	309023	7.78				
480-29598-11	OC-DUP-2	308237	7.72				
CCV 200-49448/19		198786	7.71				

TPT = Tripentyltin

TPT RT Limit = ± 0 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII ORGANOTINS/GC

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

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Sample No.: CCVRT 200-50011/2 Date Analyzed: 12/26/2012 11:30

Instrument ID: 2860.i GC Column: RTX-35 ID: 0.32(mm)

Lab File ID (Standard): 26dec121110-r021.d Heated Purge: (Y/N) N

Calibration ID: 19720

		TPT					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
CONTINUING CALIBRATION SURROGATE		61485	6.69				
UPPER LIMIT		120	6.74				
LOWER LIMIT		30	6.64				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 200-49894/1-A		97131	6.70				
LCS 200-49894/2-A		117275	6.69				
480-29598-8	OC-SB-528-1.0/3.0-XXX	119733	6.72				
480-29598-8 MSD	OC-SB-528-1.0/3.0-XXX MSD	126002	6.73				
480-29598-8 MS	OC-SB-528-1.0/3.0-XXX MS	132934	6.72				
CCV 200-50011/13		95453	6.69				

TPT = Tripentyltin

TPT RT Limit = ± 0 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII ORGANOTINS/GC

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

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Sample No.: CCVRT 200-50011/2 Date Analyzed: 12/26/2012 11:30

Instrument ID: 2860.i GC Column: RTX-5 ID: 0.32(mm)

Lab File ID (Standard): 26dec121110-r021.d Heated Purge: (Y/N) N

Calibration ID: 19721

		TPT					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
CONTINUING CALIBRATION SURROGATE		142745	7.66				
UPPER LIMIT		120	7.71				
LOWER LIMIT		30	7.61				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 200-49894/1-A		215941	7.67				
LCS 200-49894/2-A		224760	7.66				
480-29598-8	OC-SB-528-1.0/3.0-XXX	209328	7.67				
480-29598-8 MSD	OC-SB-528-1.0/3.0-XXX MSD	195229	7.69				
480-29598-8 MS	OC-SB-528-1.0/3.0-XXX MS	210634	7.68				
CCV 200-50011/13		164197	7.66				

TPT = Tripentyltin

TPT RT Limit = ± 0 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII ORGANOTINS/GC

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 200-49268/2-A

Instrument ID (1): 2860.i Instrument ID (2): 2860.i

Date Analyzed (1): 12/11/2012 22:48 Date Analyzed (2): 12/11/2012 22:48

GC Column (1): RTX-35 ID: 0.32(mm) GC Column (2): RTX-5 ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Tributyltin	1		5.49	5.46	5.56	12.7		1.7
	2		6.47	6.44	6.54	12.5		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 200-49894/2-A

Instrument ID (1): 2860.i Instrument ID (2): 2860.i

Date Analyzed (1): 12/26/2012 12:03 Date Analyzed (2): 12/26/2012 12:03

GC Column (1): RTX-35 ID: 0.32(mm) GC Column (2): RTX-5 ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Tributyltin	1		5.44	5.39	5.49	12.6		7.6
	2		6.42	6.37	6.47	11.7		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Client Sample ID: OC-SB-528-1.0/3.0-XXX MS Lab Sample ID: 480-29598-8 MS

Instrument ID (1): 2860.i Instrument ID (2): 2860.i

Date Analyzed (1): 12/26/2012 12:54 Date Analyzed (2): 12/26/2012 12:54

GC Column (1): RTX-35 ID: 0.32(mm) GC Column (2): RTX-5 ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Tributyltin	1		5.46	5.39	5.49	37.5		25.0
	2		6.45	6.37	6.47	29.2		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Client Sample ID: OC-SB-528-1.0/3.0-XXX MSD Lab Sample ID: 480-29598-8 MSD

Instrument ID (1): 2860.i Instrument ID (2): 2860.i

Date Analyzed (1): 12/26/2012 12:37 Date Analyzed (2): 12/26/2012 12:37

GC Column (1): RTX-35 ID: 0.32(mm) GC Column (2): RTX-5 ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Tributyltin	1		5.47	5.39	5.49	35.3		17.4
	2		6.45	6.37	6.47	29.7		

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington
Job No.: 480-29598-1
SDG No.:
Client Sample ID: OC-SB-528-0.0/1.0-XXX
Lab Sample ID: 480-29598-7
Matrix: Solid
Lab File ID: 11dec121807-r111.d
Analysis Method: Organotins/GC
Date Collected: 12/05/2012 14:00
Extraction Method: 3550C
Date Extracted: 12/10/2012 18:10
Sample wt/vol: 30.42(g)
Date Analyzed: 12/11/2012 23:05
Con. Extract Vol.: 1000(uL)
Dilution Factor: 1
Injection Volume: 1.5(uL)
GC Column: RTX-35 ID: 0.32(mm)
% Moisture: 73.0
GPC Cleanup:(Y/N) N
Analysis Batch No.: 49448
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
688-73-3	Tributyltin	ND		5.5	2.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL00386	Tripentyltin	92		30-120

TestAmerica Burlington

Alkyl Tin Quantitation Report

Lab Sample Id: 480-29598-7
Client Smp ID: OC-SB-528-0.0/1.0-X
Inj Date : 11-DEC-2012 23:05
Operator : RRM Inst ID: 2860_1.i
Smp Info : 480-29598-B-7-A
Misc Info : 480-29598-B-7-A
Comment :
Method : /var/chem/2860_1.i/121112_1/11DEC121807.b/OR560_RTX35.m
Meth Date : 12-Dec-2012 09:27 rrm Quant Type: ISTD
Cal Date : 11-DEC-2012 19:26 Cal File: 11dec121742-r071.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: SOIL
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

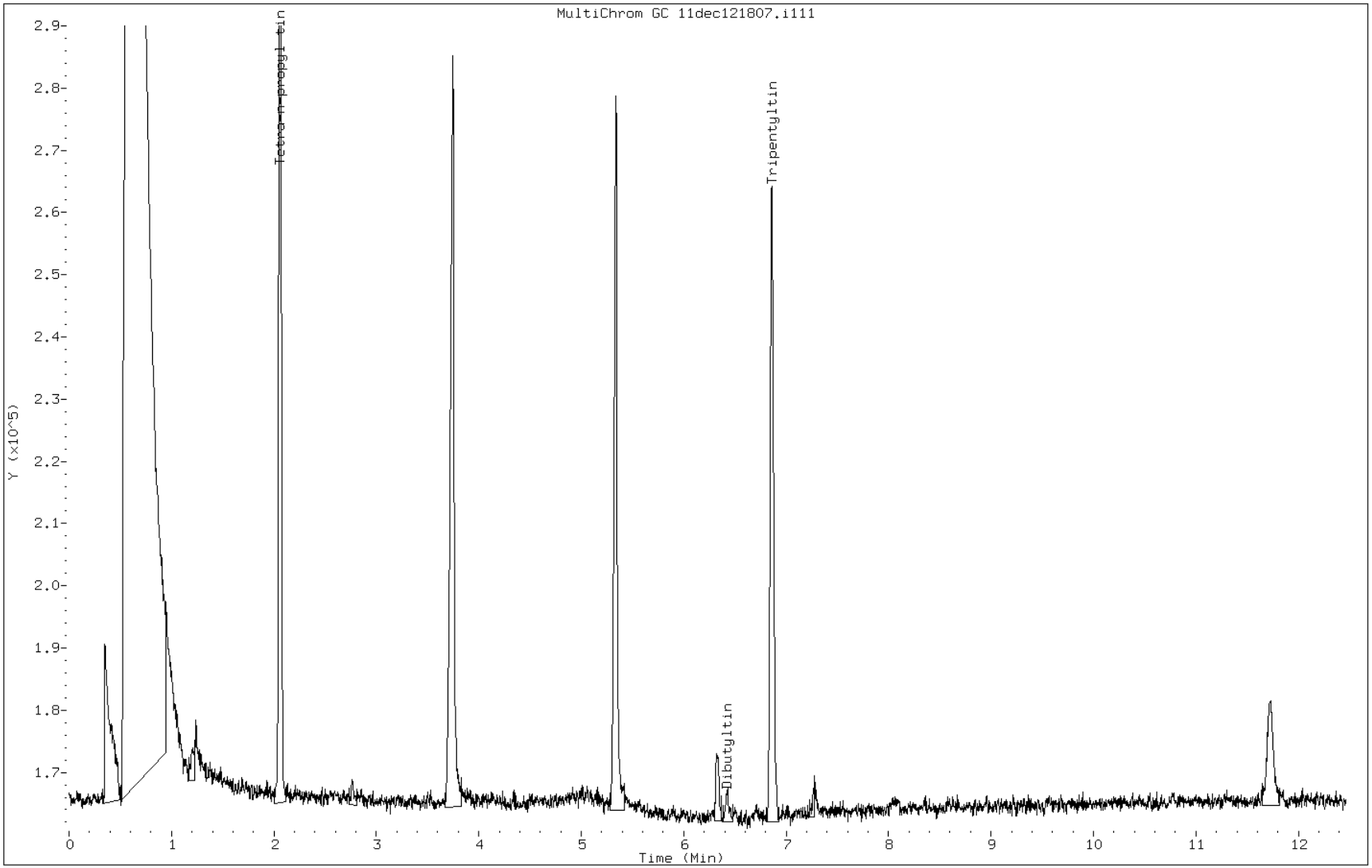
Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	
*	1 Tetra-n-propyl tin				CAS #: 2176-98-9	
	2.059	2.015 (1.000)	377094	500.000		
	4 Dibutyltin				CAS #: 1002-53-5	
	6.426	6.402 (3.121)	12115	14.9477	14.95	(a)
$	5 Tripentyltin				CAS #: 3342-67-4	
	6.861	6.761 (0.000)	239627	425.345	425.3	(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File:	11dec121807-r111.d	Date:	11-DEC-2012 23:05
Client ID:	OC-SB-528-0.0/1.0-X	Instrument:	2860_1.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-35		
Sample Info:	480-29598-B-7-A		
Lab Sample ID:	480-29598-7		

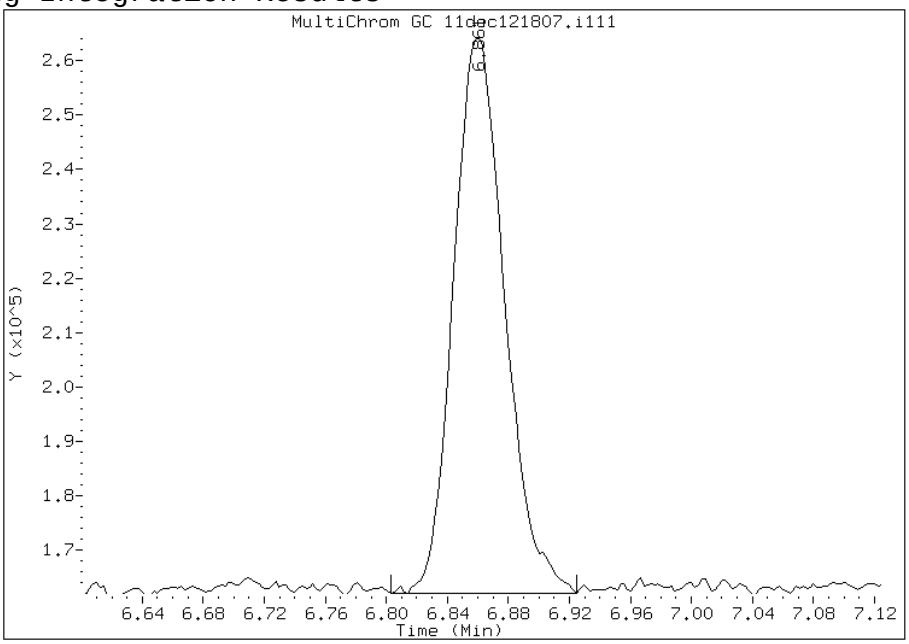


Manual Integration Report

Data File: 11dec121807-r111.d
Lab Sample ID: 480-29598-7
Inj. Date and Time: 11-DEC-2012 23:05
Instrument ID: 2860_1.i
Client ID: OC-SB-528-0.0/1.0-X
Compound: 5 Tripentyltin
CAS #: 3342-67-4
Report Date: 12/13/2012

Processing Integration Results

Not Detected



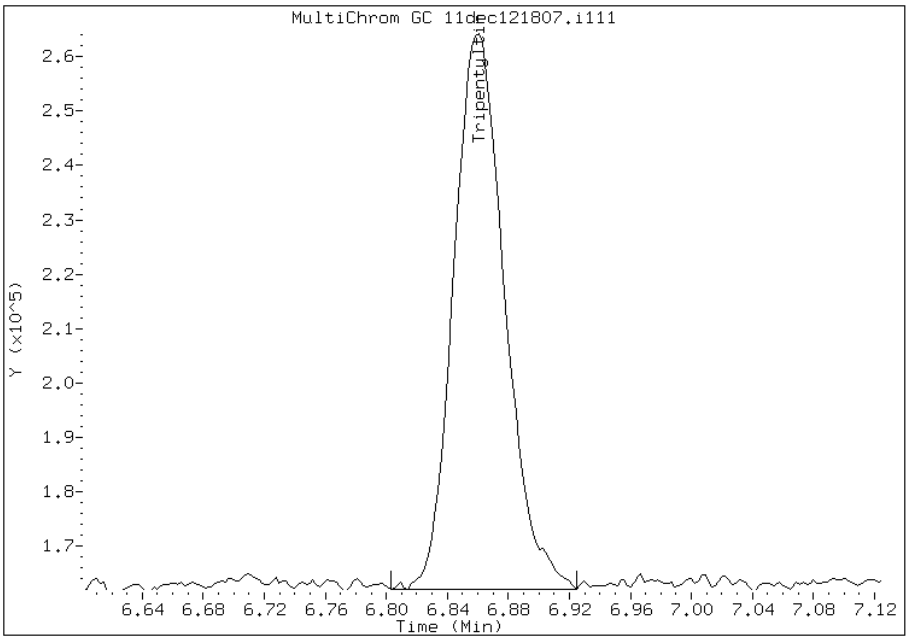
Manual Integration Results

RT: 6.86

Response: 239627

Amount: 425.34

Conc: 425.30



File Uploaded By: rrm
Manual Integration Reason: Peak not found by the data system

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Client Sample ID: OC-SB-528-0.0/1.0-XXX Lab Sample ID: 480-29598-7

Matrix: Solid Lab File ID: 11dec121807-r111.d

Analysis Method: Organotins/GC Date Collected: 12/05/2012 14:00

Extraction Method: 3550C Date Extracted: 12/10/2012 18:10

Sample wt/vol: 30.42(g) Date Analyzed: 12/11/2012 23:05

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 1.5(uL) GC Column: RTX-5 ID: 0.32(mm)

% Moisture: 73.0 GPC Cleanup:(Y/N) N

Analysis Batch No.: 49448 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL00386	Tripentyltin	83		30-120

TestAmerica Burlington

Alkyl Tin Quantitation Report

Lab Sample Id: 480-29598-7
Client Smp ID: OC-SB-528-0.0/1.0-X
Inj Date : 11-DEC-2012 23:05
Operator : RRM Inst ID: 2860_2.i
Smp Info : 480-29598-B-7-A
Misc Info : 480-29598-B-7-A
Comment :
Method : /var/chem/2860_2.i/121112_1/11DEC121807.b/OR560_RTX5.m
Meth Date : 12-Dec-2012 11:45 rrm Quant Type: ISTD
Cal Date : 11-DEC-2012 19:26 Cal File: 11dec121742-r071.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: SOIL
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

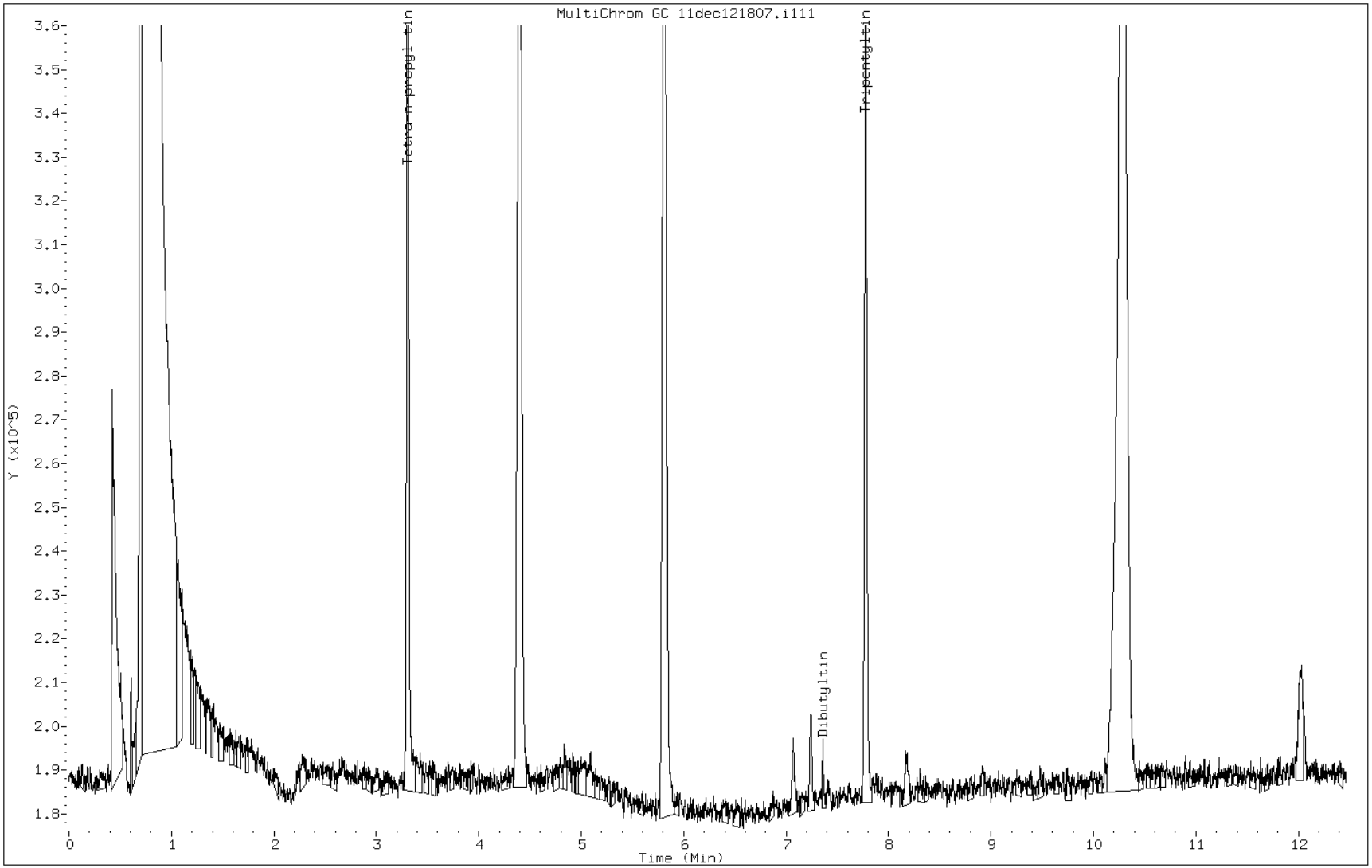
Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	
* 1 Tetra-n-propyl tin				CAS #: 2176-98-9	
3.305	3.305 (1.000)	458640	500.000		
4 Dibutyltin				CAS #: 1002-53-5	
7.357	7.366 (2.226)	15385	13.5950	13.60	(a)
$ 5 Tripentyltin				CAS #: 3342-67-4	
7.776	7.730 (2.353)	309023	381.976	382.0	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File:	11dec121807-r111.d	Date:	11-DEC-2012 23:05
Client ID:	OC-SB-528-0.0/1.0-X	Instrument:	2860_2.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-5		
Sample Info:	480-29598-B-7-A		
Lab Sample ID:	480-29598-7		



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington
Job No.: 480-29598-1
SDG No.:
Client Sample ID: OC-SB-528-1.0/3.0-XXX
Lab Sample ID: 480-29598-8
Matrix: Solid
Lab File ID: 26dec121110-r051.d
Analysis Method: Organotins/GC
Date Collected: 12/05/2012 14:05
Extraction Method: 3550C
Date Extracted: 12/22/2012 08:12
Sample wt/vol: 29.37(g)
Date Analyzed: 12/26/2012 12:20
Con. Extract Vol.: 1000(uL)
Dilution Factor: 1
Injection Volume: 1.5(uL)
GC Column: RTX-35 ID: 0.32(mm)
% Moisture: 59.0
GPC Cleanup:(Y/N) N
Analysis Batch No.: 50011
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
688-73-3	Tributyltin	ND		3.7	1.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL00386	Tripentyltin	81		30-120

TestAmerica Burlington

Alkyl Tin Quantitation Report

Lab Sample Id: 480-29598-8
Client Smp ID: OC-SB-528-1.0/3.0-X
Inj Date : 26-DEC-2012 12:20
Operator : RRM Inst ID: 2860_1.i
Smp Info : 480-29598-E-8-C
Misc Info : 480-29598-E-8-C
Comment :
Method : /var/chem/2860_1.i/121712_1/26DEC121110.b/OR560_RTX35.m
Meth Date : 27-Dec-2012 08:32 sld Quant Type: ISTD
Cal Date : 17-DEC-2012 16:37 Cal File: 17dec121447-r071.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: SOIL
Processing Host: chemsvr5

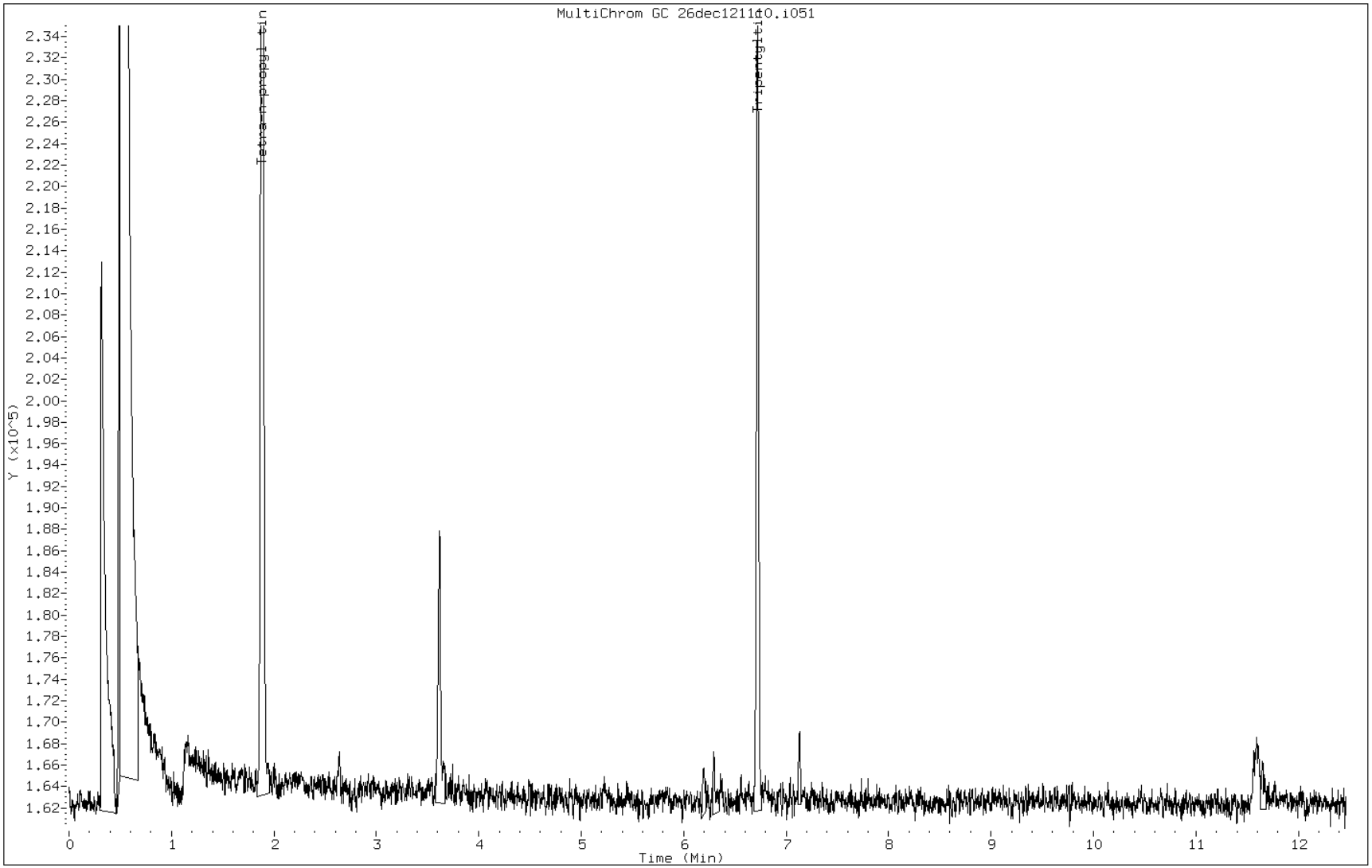
Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)
*	1 Tetra-n-propyl tin				CAS #: 2176-98-9
	1.884	1.860 (1.000)	304738	500.000	
$	5 Tripentyltin				CAS #: 3342-67-4
	6.721	6.690 (3.567)	119733	370.558	370.6

Data File:	26dec121110-r051.d	Date:	26-DEC-2012 12:20
Client ID:	OC-SB-528-1.0/3.0-X	Instrument:	2860_1.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-35		
Sample Info:	480-29598-E-8-C		
Lab Sample ID:	480-29598-8		



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Client Sample ID: OC-SB-528-1.0/3.0-XXX Lab Sample ID: 480-29598-8

Matrix: Solid Lab File ID: 26dec121110-r051.d

Analysis Method: Organotins/GC Date Collected: 12/05/2012 14:05

Extraction Method: 3550C Date Extracted: 12/22/2012 08:12

Sample wt/vol: 29.37(g) Date Analyzed: 12/26/2012 12:20

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 1.5(uL) GC Column: RTX-5 ID: 0.32(mm)

% Moisture: 59.0 GPC Cleanup:(Y/N) N

Analysis Batch No.: 50011 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL00386	Tripentyltin	69		30-120

TestAmerica Burlington

Alkyl Tin Quantitation Report

Lab Sample Id: 480-29598-8
Client Smp ID: OC-SB-528-1.0/3.0-X
Inj Date : 26-DEC-2012 12:20
Operator : RRM Inst ID: 2860_2.i
Smp Info : 480-29598-E-8-C
Misc Info : 480-29598-E-8-C
Comment :
Method : /var/chem/2860_2.i/121712_1/26DEC121110.b/OR560_RTX5.m
Meth Date : 27-Dec-2012 08:33 sld Quant Type: ISTD
Cal Date : 17-DEC-2012 16:37 Cal File: 17dec121447-r071.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: SOIL
Processing Host: chemsvr5

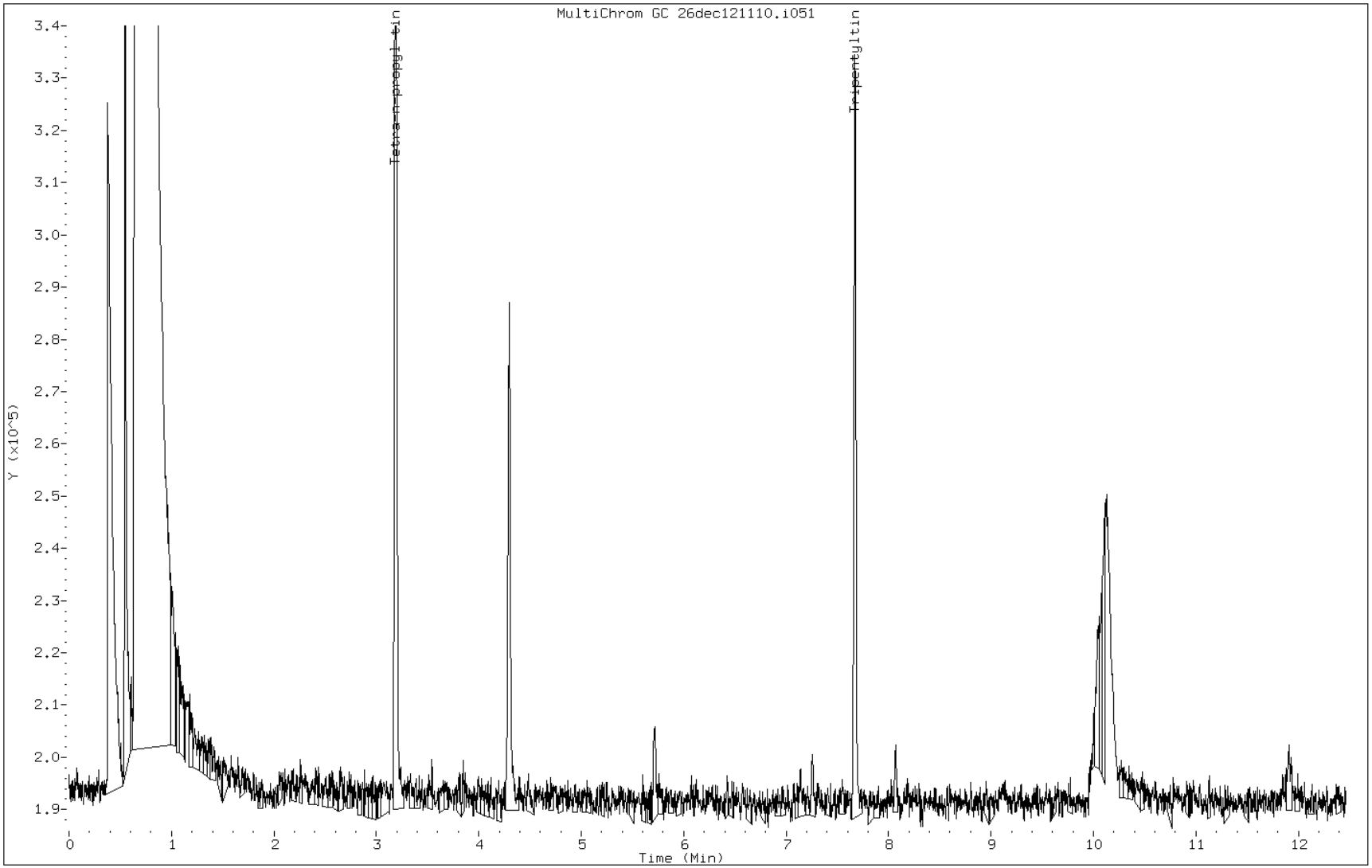
Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)
*	1 Tetra-n-propyl tin				CAS #: 2176-98-9
	3.188	3.181 (1.000)	361659	500.000	
$	5 Tripentyltin				CAS #: 3342-67-4
	7.672	7.656 (2.407)	209328	319.174	319.2

Data File:	26dec121110-r051.d	Date:	26-DEC-2012 12:20
Client ID:	OC-SB-528-1.0/3.0-X	Instrument:	2860_2.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-5		
Sample Info:	480-29598-E-8-C		
Lab Sample ID:	480-29598-8		



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington
Job No.: 480-29598-1
SDG No.:
Client Sample ID: OC-DUP-2
Lab Sample ID: 480-29598-11
Matrix: Solid
Lab File ID: 11dec121807-r131.d
Analysis Method: Organotins/GC
Date Collected: 12/05/2012 00:00
Extraction Method: 3550C
Date Extracted: 12/10/2012 18:10
Sample wt/vol: 30.44(g)
Date Analyzed: 12/11/2012 23:39
Con. Extract Vol.: 1000(uL)
Dilution Factor: 1
Injection Volume: 1.5(uL)
GC Column: RTX-35 ID: 0.32(mm)
% Moisture: 53.5
GPC Cleanup:(Y/N) N
Analysis Batch No.: 49448
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
688-73-3	Tributyltin	ND		3.2	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL00386	Tripentyltin	81		30-120

TestAmerica Burlington

Alkyl Tin Quantitation Report

Lab Sample Id: 480-29598-11
Client Smp ID: OC-DUP-2
Inj Date : 11-DEC-2012 23:39
Operator : RRM Inst ID: 2860_1.i
Smp Info : 480-29598-A-11-A
Misc Info : 480-29598-A-11-A
Comment :
Method : /var/chem/2860_1.i/121112_1/11DEC121807.b/OR560_RTX35.m
Meth Date : 12-Dec-2012 09:27 rrm Quant Type: ISTD
Cal Date : 11-DEC-2012 19:26 Cal File: 11dec121742-r071.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: SOIL
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

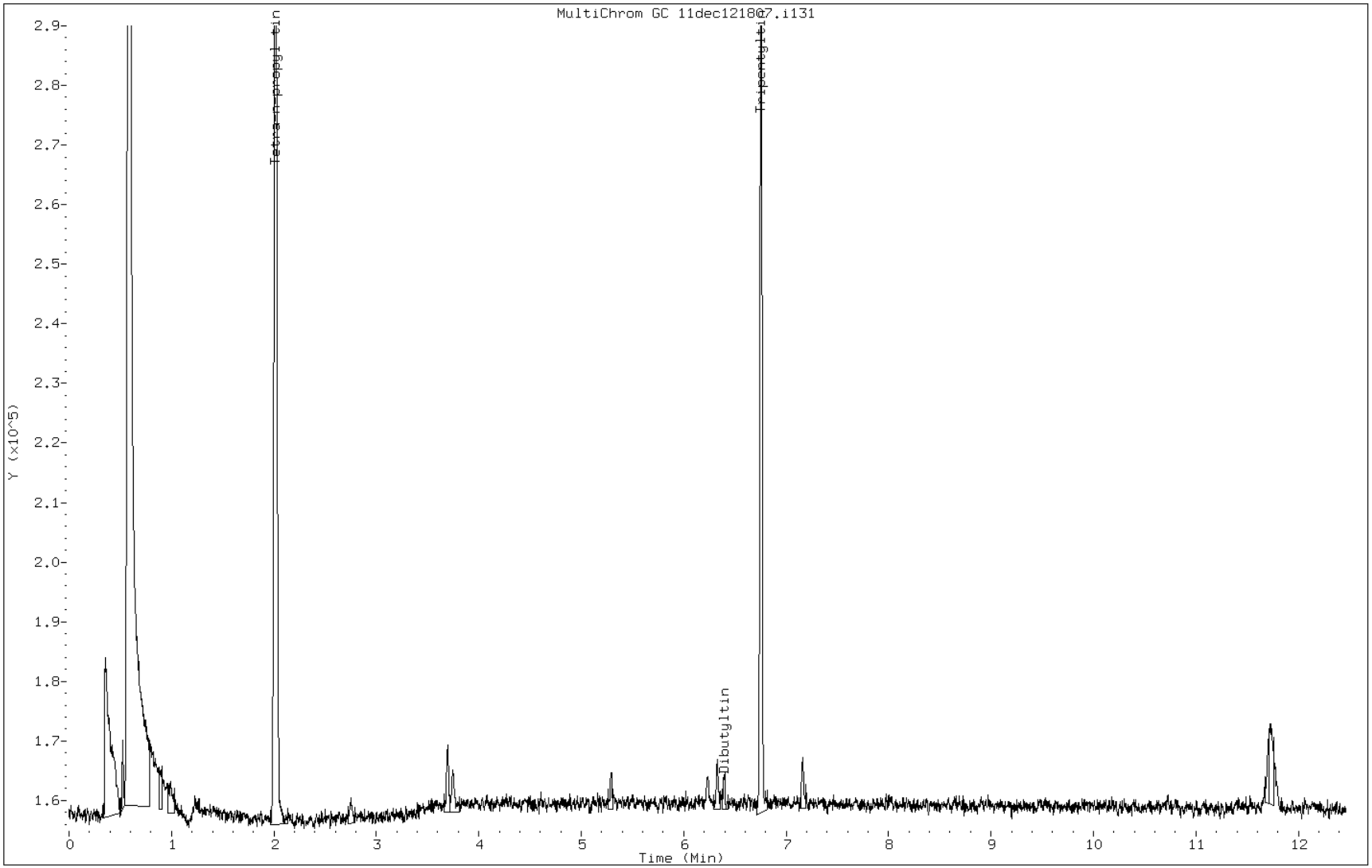
Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	
*	1 Tetra-n-propyl tin				CAS #: 2176-98-9	
	2.015	2.015 (1.000)	386522	500.000		
	4 Dibutyltin				CAS #: 1002-53-5	
	6.391	6.402 (3.172)	8623	10.3797	10.38	(a)
$	5 Tripentyltin				CAS #: 3342-67-4	
	6.754	6.761 (3.352)	214098	370.760	370.8	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File:	11dec121807-r131.d	Date:	11-DEC-2012 23:39
Client ID:	OC-DUP-2	Instrument:	2860_1.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-35		
Sample Info:	480-29598-A-11-A		
Lab Sample ID:	480-29598-11		



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Client Sample ID: OC-DUP-2 Lab Sample ID: 480-29598-11

Matrix: Solid Lab File ID: 11dec121807-r131.d

Analysis Method: Organotins/GC Date Collected: 12/05/2012 00:00

Extraction Method: 3550C Date Extracted: 12/10/2012 18:10

Sample wt/vol: 30.44(g) Date Analyzed: 12/11/2012 23:39

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 1.5(uL) GC Column: RTX-5 ID: 0.32(mm)

% Moisture: 53.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 49448 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL00386	Tripentyltin	82		30-120

TestAmerica Burlington

Alkyl Tin Quantitation Report

Lab Sample Id: 480-29598-11
Client Smp ID: OC-DUP-2
Inj Date : 11-DEC-2012 23:39
Operator : RRM Inst ID: 2860_2.i
Smp Info : 480-29598-A-11-A
Misc Info : 480-29598-A-11-A
Comment :
Method : /var/chem/2860_2.i/121112_1/11DEC121807.b/OR560_RTX5.m
Meth Date : 12-Dec-2012 11:45 rrm Quant Type: ISTD
Cal Date : 11-DEC-2012 19:26 Cal File: 11dec121742-r071.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: SOIL
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

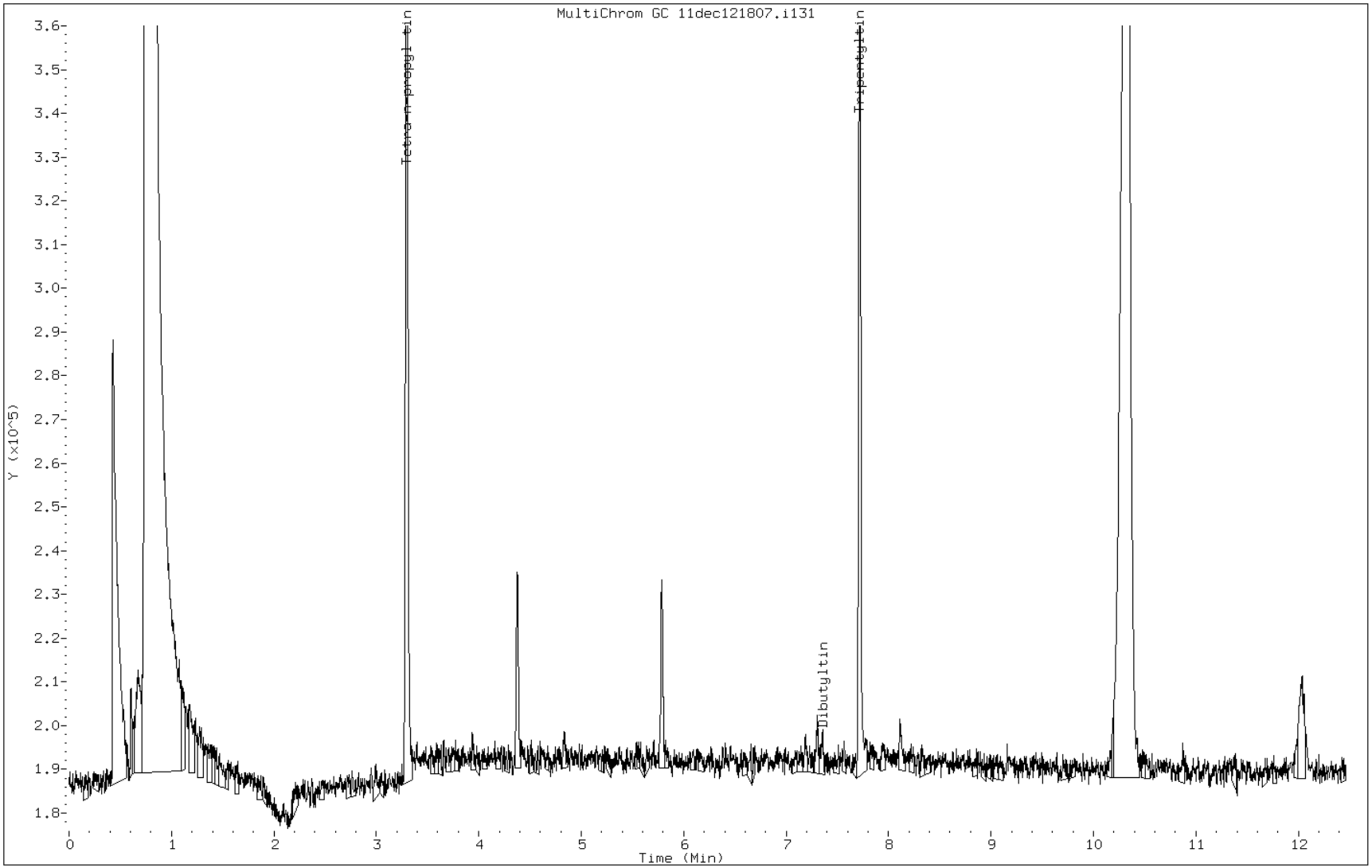
Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	
* 1 Tetra-n-propyl tin				CAS #: 2176-98-9	
3.296	3.305 (1.000)	464098	500.000		
4 Dibutyltin				CAS #: 1002-53-5	
7.355	7.366 (2.231)	16848	14.7127	14.71	(a)
$ 5 Tripentyltin				CAS #: 3342-67-4	
7.718	7.730 (2.342)	308237	376.523	376.5	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File:	11dec121807-r131.d	Date:	11-DEC-2012 23:39
Client ID:	OC-DUP-2	Instrument:	2860_2.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-5		
Sample Info:	480-29598-A-11-A		
Lab Sample ID:	480-29598-11		



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

Lab Name: TestAmerica Burlington Job No.: 480-29598-1 Analy Batch No.: 49433

SDG No.:

Instrument ID: 2860.i GC Column: RTX-35 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2012 18:18 Calibration End Date: 12/11/2012 19:26 Calibration ID: 19596

Calibration Files:

LEVEL:	LAB SAMPLE ID:	EPA SAMPLE NO:	LAB FILE ID:
Level 1	IC 200-49433/1	50 PPB	11dec121742-r031.d
Level 2	IC 200-49433/2	100 PPB	11dec121742-r041.d
Level 3	ICRT 200-49433/3	250 PPB	11dec121742-r051.d
Level 4	IC 200-49433/4	500 PPB	11dec121742-r061.d
Level 5	IC 200-49433/5	1000 PPB	11dec121742-r071.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Tetrabutyltin	0.9203	0.7836	0.7574	0.7134	0.6968	Ave		0.7743				11.4		20.0			
Tributyltin	1.0554	0.9477	1.0230	0.9463	0.9149	Ave		0.9775				6.0		20.0			
Dibutyltin	1.1372	1.0298	1.1225	1.0666	1.0171	Ave		1.0747				5.0		20.0			
Monobutyltin	1.1561	1.0529	1.0983	1.0509	0.9946	Ave		1.0705				5.6		20.0			
Tripentyltin	0.8173	0.7315	0.7707	0.7192	0.6962	Ave		0.7470				6.4		20.0			

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

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

Lab Name: TestAmerica Burlington Job No.: 480-29598-1 Analy Batch No.: 49433

SDG No.:

Instrument ID: 2860.i GC Column: RTX-35 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2012 18:18 Calibration End Date: 12/11/2012 19:26 Calibration ID: 19596

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-49433/1	11dec121742-r031.d
Level 2	IC 200-49433/2	11dec121742-r041.d
Level 3	ICRT 200-49433/3	11dec121742-r051.d
Level 4	IC 200-49433/4	11dec121742-r061.d
Level 5	IC 200-49433/5	11dec121742-r071.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Tetrabutyltin	TPT	Ave	34869	59688	139754	271953	524951	50.0	100	250	500	1000
Tributyltin	TPT	Ave	35591	64246	168365	321062	613451	44.5	89.0	223	445	890
Dibutyltin	TPT	Ave	33179	60404	159885	313076	590032	38.5	77.0	193	385	770
Monobutyltin	TPT	Ave	27158	49726	125636	248385	464542	31.0	62.0	155	310	620
Tripentyltin	TPT	Ave	27870	50150	127987	246741	472068	45.0	90.0	225	450	900

Curve Type Legend:

Ave = Average ISTD

TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_1.i/121112_1/11DEC121742.b/11dec121742-r031.d
Lab Smp Id: IC-406255 Client Smp ID: 50 PPB
Inj Date : 11-DEC-2012 18:18
Operator : RRM Inst ID: 2860_1.i
Smp Info : IC-406255,1,50 PPB
Misc Info :
Comment :
Method : /var/chem/2860_1.i/121112_1/11DEC121742.b/OR560_RTX35.m
Meth Date : 12-Dec-2012 09:25 rrm Quant Type: ISTD
Cal Date : 11-DEC-2012 18:18 Cal File: 11dec121742-r031.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: OR560_STD.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

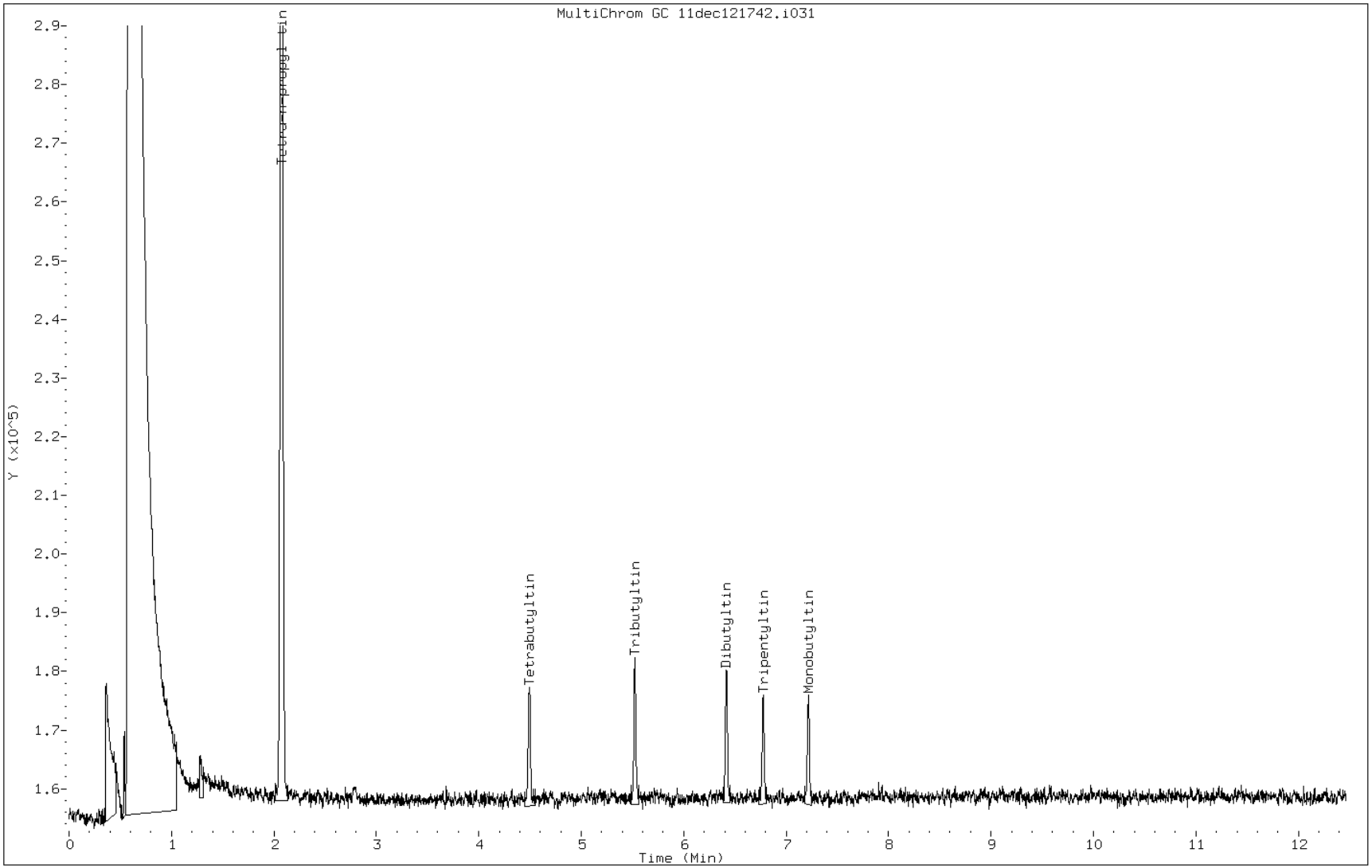
	RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	
*	1 Tetra-n-propyl tin				CAS #: 2176-98-9	
	2.075	2.015 (0.000)	378894	500.000		(M)
	2 Tetrabutyltin				CAS #: 1461-25-2	
	4.493	4.475 (1.000)	34869	50.0000	59.43	
	3 Tributyltin				CAS #: 688-73-3	
	5.524	5.508 (1.000)	35591	44.5000	48.05	
	4 Dibutyltin				CAS #: 1002-53-5	
	6.417	6.402 (1.000)	33179	38.5000	40.74	
$	5 Tripentyltin				CAS #: 3342-67-4	
	6.776	6.761 (1.000)	27870	45.0000	49.24	

RT	EXP RT	(REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
6 Monobutyltin					CAS #: 2406-65-7
7.217	7.200	(1.000)	27158	31.0000	33.48

QC Flag Legend

M - Compound response manually integrated.

Data File:	11dec121742-r031.d	Date:	11-DEC-2012 18:18
Client ID:	50 PPB	Instrument:	2860_1.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-35		
Sample Info:	IC-406255,1,50 PPB		
Lab Sample ID:	IC-406255		

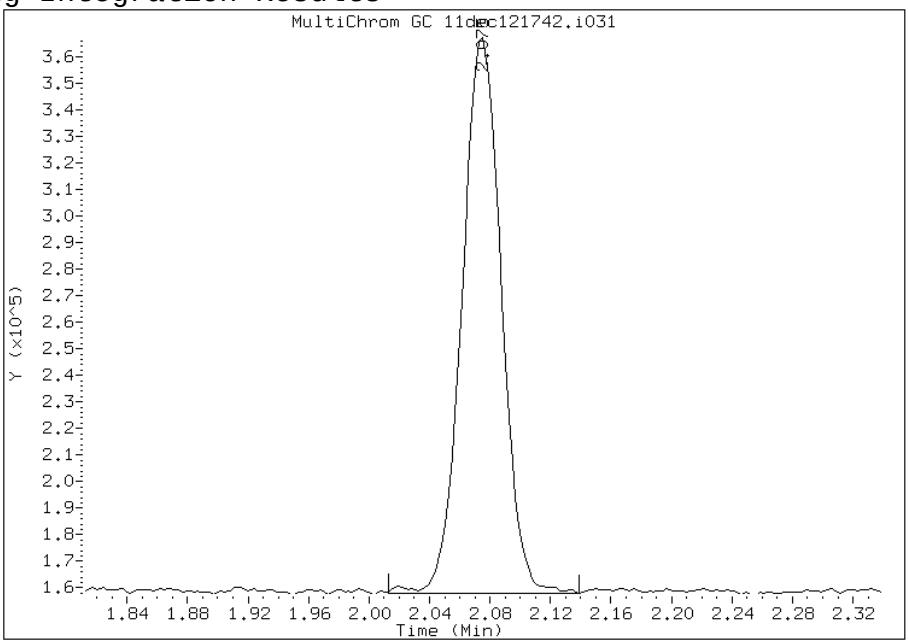


Manual Integration Report

Data File: 11dec121742-r031.d
Lab Sample ID: IC-406255
Inj. Date and Time: 11-DEC-2012 18:18
Instrument ID: 2860_1.i
Client ID: 50 PPB
Compound: 1 Tetra-n-propyl tin
CAS #: 2176-98-9
Report Date: 12/13/2012

Processing Integration Results

Not Detected



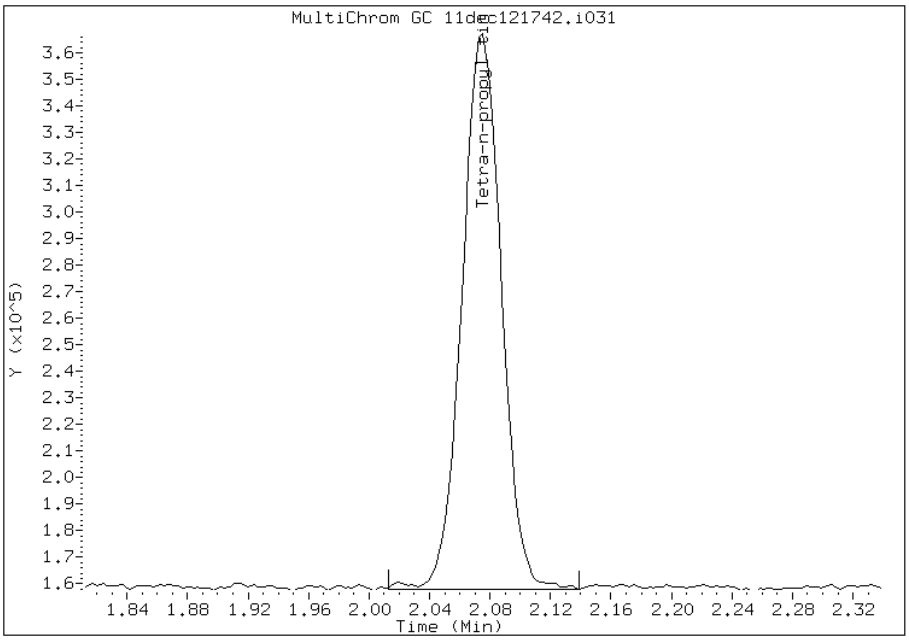
Manual Integration Results

RT: 2.07

Response: 378894

Amount: 500.00

Conc: 500.00



File Uploaded By: rrm
Manual Integration Reason: Peak not found by the data system

TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_1.i/121112_1/11DEC121742.b/11dec121742-r041.d
Lab Smp Id: IC-406256 Client Smp ID: 100 PPB
Inj Date : 11-DEC-2012 18:35
Operator : RRM Inst ID: 2860_1.i
Smp Info : IC-406256,1,100 PPB
Misc Info :
Comment :
Method : /var/chem/2860_1.i/121112_1/11DEC121742.b/OR560_RTX35.m
Meth Date : 12-Dec-2012 09:25 rrm Quant Type: ISTD
Cal Date : 11-DEC-2012 18:35 Cal File: 11dec121742-r041.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: OR560_STD.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

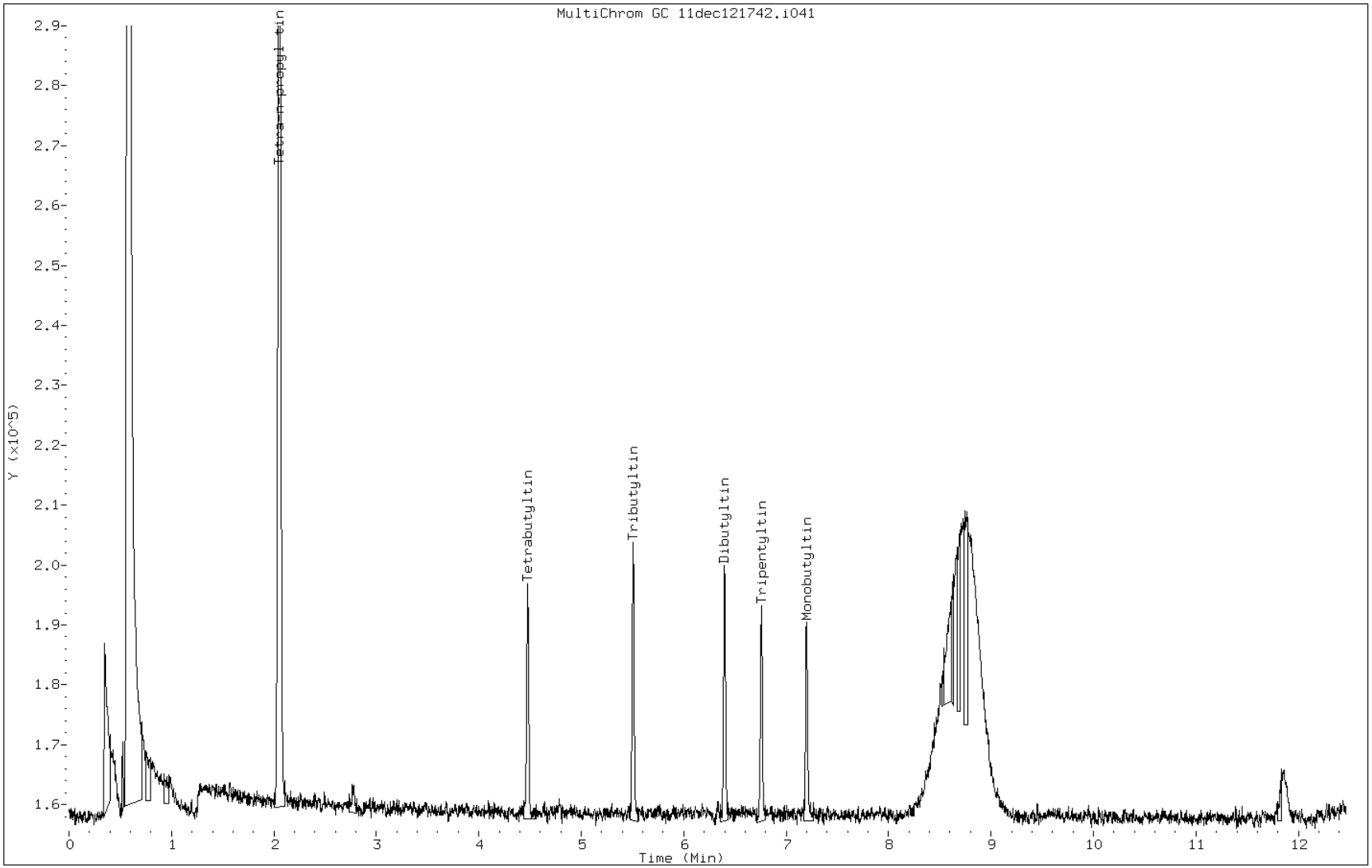
Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Tetra-n-propyl tin				CAS #: 2176-98-9
2.053	2.015 (1.000)	380871	500.000	
2 Tetrabutyltin				CAS #: 1461-25-2
4.478	4.475 (2.181)	59688	100.000	101.2
3 Tributyltin				CAS #: 688-73-3
5.506	5.508 (2.683)	64246	89.0000	86.29
4 Dibutyltin				CAS #: 1002-53-5
6.397	6.402 (3.117)	60404	77.0000	73.79
$ 5 Tripentyltin				CAS #: 3342-67-4
6.759	6.761 (3.293)	50150	90.0000	88.13

RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
6 Monobutyltin				CAS #: 2406-65-7
7.198	7.200 (3.506)	49726	62.0000	60.98

Data File:	11dec121742-r041.d	Date:	11-DEC-2012 18:35
Client ID:	100 PPB	Instrument:	2860_1.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-35		
Sample Info:	IC-406256,1,100 PPB		
Lab Sample ID:	IC-406256		



TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_1.i/121112_1/11DEC121742.b/11dec121742-r051.d
Lab Smp Id: ICRT-406257 Client Smp ID: 250 PPB
Inj Date : 11-DEC-2012 18:52
Operator : RRM Inst ID: 2860_1.i
Smp Info : ICRT-406257,1,250 PPB
Misc Info :
Comment :
Method : /var/chem/2860_1.i/121112_1/11DEC121742.b/OR560_RTX35.m
Meth Date : 12-Dec-2012 09:25 rrm Quant Type: ISTD
Cal Date : 11-DEC-2012 18:52 Cal File: 11dec121742-r051.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: OR560_STD.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

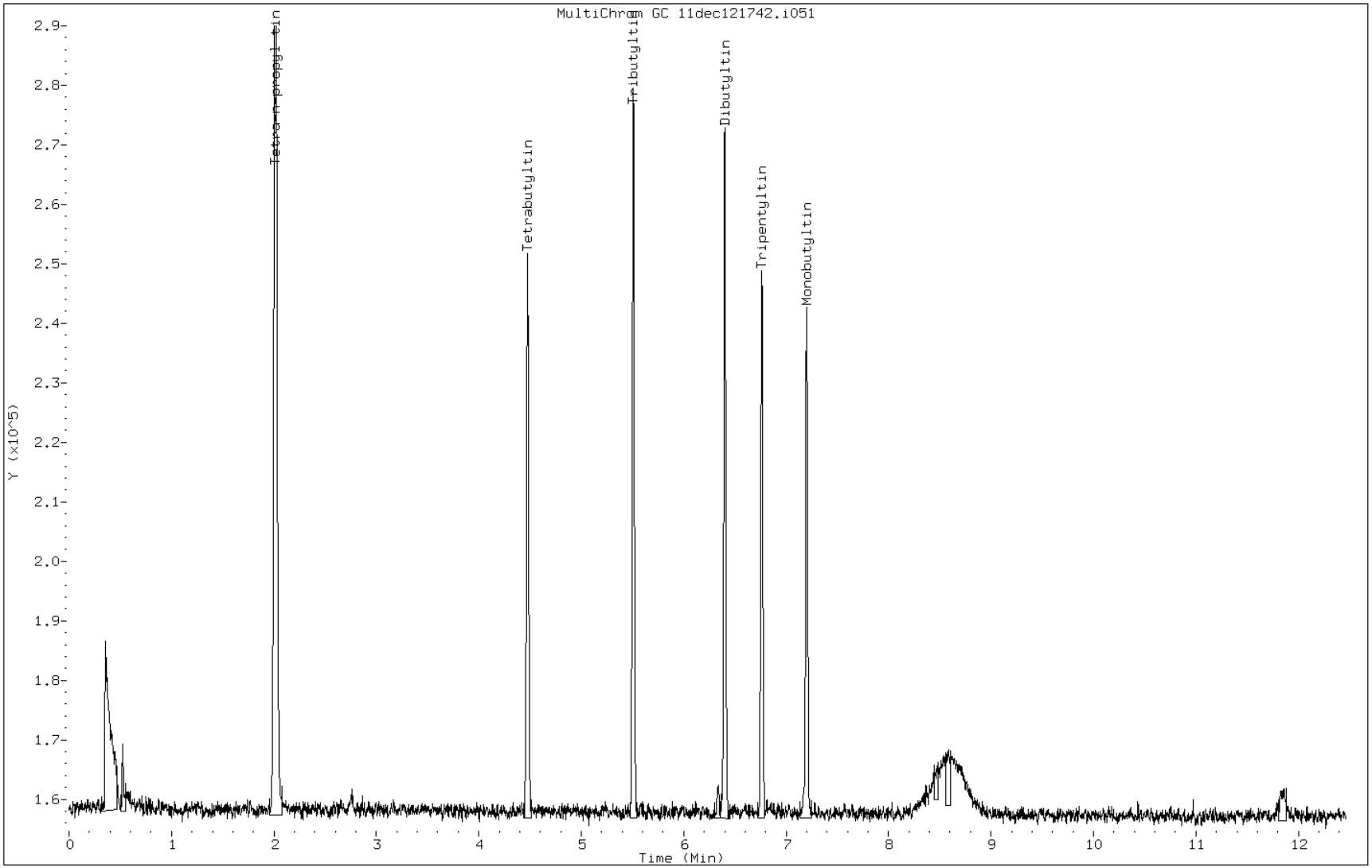
Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	
*	1 Tetra-n-propyl tin					CAS #: 2176-98-9
	2.015	2.015 (1.000)	369017	500.000		
	2 Tetrabutyltin					CAS #: 1461-25-2
	4.475	4.475 (2.221)	139754	250.000	244.6	
	3 Tributyltin					CAS #: 688-73-3
	5.508	5.508 (2.734)	168365	223.000	233.4	
	4 Dibutyltin					CAS #: 1002-53-5
	6.402	6.402 (3.177)	159885	193.000	201.6	
$	5 Tripentyltin					CAS #: 3342-67-4
	6.761	6.761 (3.355)	127987	225.000	232.2	

RT	EXP RT	(REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
6 Monobutyltin					CAS #: 2406-65-7
7.200	7.200	(3.573)	125636	155.000	159.0

Data File:	11dec121742-r051.d	Date:	11-DEC-2012 18:52
Client ID:	250 PPB	Instrument:	2860_1.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-35		
Sample Info:	ICRT-406257,1,250 PPB		
Lab Sample ID:	ICRT-406257		



TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_1.i/121112_1/11DEC121742.b/11dec121742-r061.d
Lab Smp Id: IC-406258 Client Smp ID: 500 PPB
Inj Date : 11-DEC-2012 19:09
Operator : RRM Inst ID: 2860_1.i
Smp Info : IC-406258,1,500 PPB
Misc Info :
Comment :
Method : /var/chem/2860_1.i/121112_1/11DEC121742.b/OR560_RTX35.m
Meth Date : 12-Dec-2012 09:25 rrm Quant Type: ISTD
Cal Date : 11-DEC-2012 19:09 Cal File: 11dec121742-r061.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: OR560_STD.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

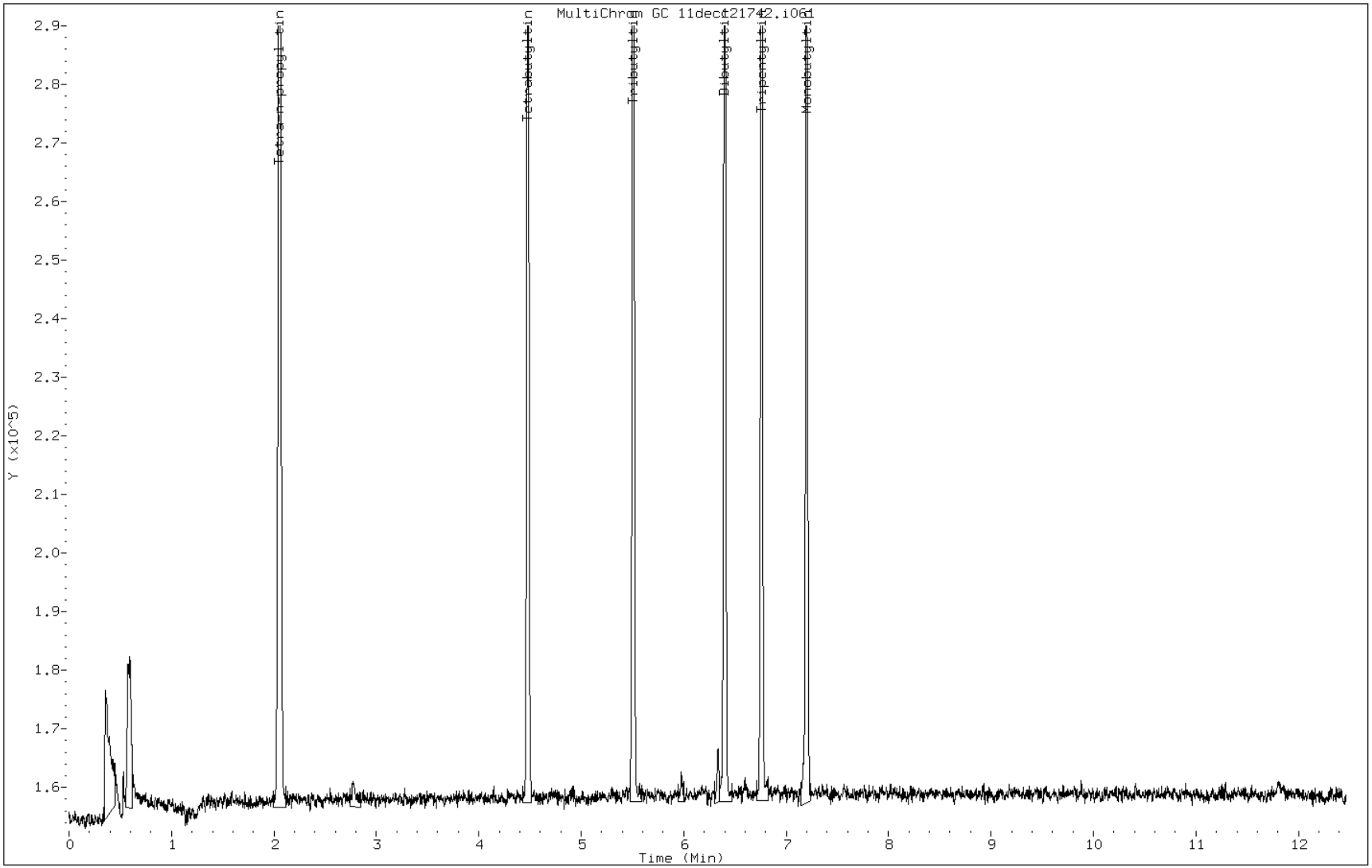
Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	
*	1 Tetra-n-propyl tin					CAS #: 2176-98-9
	2.055	2.015 (1.000)	381209	500.000		
	2 Tetrabutyltin					CAS #: 1461-25-2
	4.480	4.475 (2.180)	271953	500.000	460.7	
	3 Tributyltin					CAS #: 688-73-3
	5.508	5.508 (2.681)	321062	445.000	430.8	
	4 Dibutyltin					CAS #: 1002-53-5
	6.400	6.402 (3.114)	313076	385.000	382.1	
$	5 Tripentyltin					CAS #: 3342-67-4
	6.759	6.761 (3.289)	246741	450.000	433.2	

RT	EXP RT	(REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
6 Monobutyltin					CAS #: 2406-65-7
7.200	7.200	(3.504)	248385	310.000	304.3

Data File:	11dec121742-r061.d	Date:	11-DEC-2012 19:09
Client ID:	500 PPB	Instrument:	2860_1.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-35		
Sample Info:	IC-406258,1,500 PPB		
Lab Sample ID:	IC-406258		



TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_1.i/121112_1/11DEC121742.b/11dec121742-r071.d
Lab Smp Id: IC-406259 Client Smp ID: 1000 PPB
Inj Date : 11-DEC-2012 19:26
Operator : RRM Inst ID: 2860_1.i
Smp Info : IC-406259,1,1000 PPB
Misc Info :
Comment :
Method : /var/chem/2860_1.i/121112_1/11DEC121742.b/OR560_RTX35.m
Meth Date : 12-Dec-2012 09:25 rrm Quant Type: ISTD
Cal Date : 11-DEC-2012 19:26 Cal File: 11dec121742-r071.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: OR560_STD.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

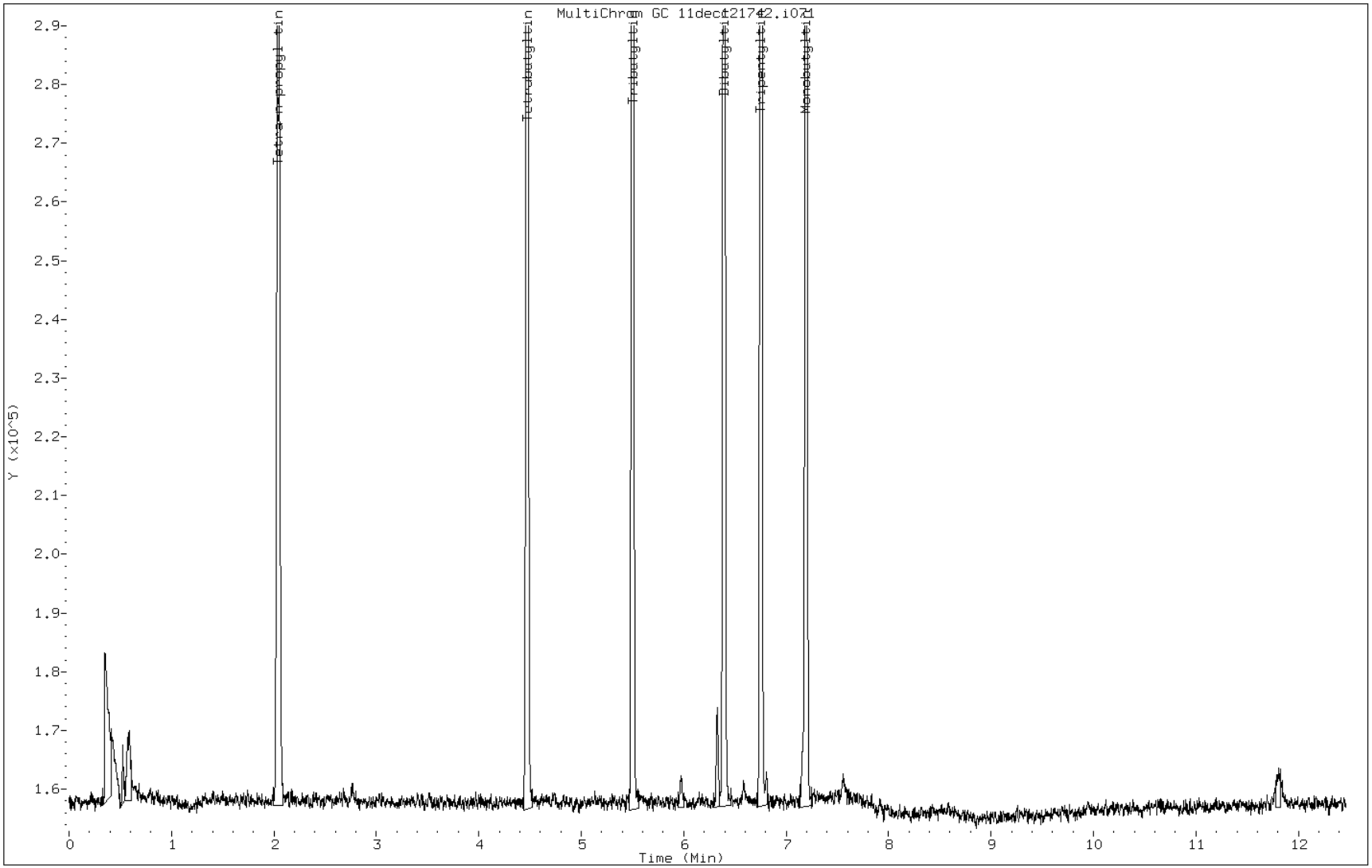
Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	
*	1 Tetra-n-propyl tin					CAS #: 2176-98-9
	2.044	2.015 (1.000)	376682	500.000		
	2 Tetrabutyltin					CAS #: 1461-25-2
	4.471	4.475 (2.188)	524951	1000.00	899.9	
	3 Tributyltin					CAS #: 688-73-3
	5.502	5.508 (2.692)	613451	890.000	833.1	
	4 Dibutyltin					CAS #: 1002-53-5
	6.393	6.402 (3.128)	590032	770.000	728.8	
$	5 Tripentyltin					CAS #: 3342-67-4
	6.754	6.761 (3.305)	472068	900.000	838.9	

RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
6 Monobutyltin				CAS #: 2406-65-7
7.193	7.200 (3.520)	464542	620.000	576.0

Data File:	11dec121742-r071.d	Date:	11-DEC-2012 19:26
Client ID:	1000 PPB	Instrument:	2860_1.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-35		
Sample Info:	IC-406259,1,1000 PPB		
Lab Sample ID:	IC-406259		



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

Lab Name: TestAmerica Burlington Job No.: 480-29598-1 Analy Batch No.: 49433

SDG No.:

Instrument ID: 2860.i GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2012 18:18 Calibration End Date: 12/11/2012 19:26 Calibration ID: 19597

Calibration Files:

LEVEL:	LAB SAMPLE ID:	EPA SAMPLE NO:	LAB FILE ID:
Level 1	IC 200-49433/1	50 PPB	11dec121742-r031.d
Level 2	IC 200-49433/2	100 PPB	11dec121742-r041.d
Level 3	ICRT 200-49433/3	250 PPB	11dec121742-r051.d
Level 4	IC 200-49433/4	500 PPB	11dec121742-r061.d
Level 5	IC 200-49433/5	1000 PPB	11dec121742-r071.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Tetrabutyltin	1.0069	0.8065	0.7953	0.7493	0.7408	Ave		0.8198				13.2		20.0			
Tributyltin	1.2197	1.0433	1.0735	1.0501	1.0249	Ave		1.0823				7.3		20.0			
Dibutyltin	1.3762	1.1815	1.2566	1.2086	1.1457	Ave		1.2337				7.2		20.0			
Monobutyltin	1.2118	1.2254	1.4346	1.3239	1.2813	Ave		1.2954				6.9		20.0			
Tripentyltin	0.9886	0.8954	0.9174	0.8210	0.7874	Ave		0.8820				9.0		20.0			

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

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

Lab Name: TestAmerica Burlington Job No.: 480-29598-1 Analy Batch No.: 49433

SDG No.:

Instrument ID: 2860.i GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/11/2012 18:18 Calibration End Date: 12/11/2012 19:26 Calibration ID: 19597

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-49433/1	11dec121742-r031.d
Level 2	IC 200-49433/2	11dec121742-r041.d
Level 3	ICRT 200-49433/3	11dec121742-r051.d
Level 4	IC 200-49433/4	11dec121742-r061.d
Level 5	IC 200-49433/5	11dec121742-r071.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Tetrabutyltin	TPT	Ave	42858	70430	177548	330462	655061	50.0	100	250	500	1000
Tributyltin	TPT	Ave	46203	81087	213783	412149	806585	44.5	89.0	223	445	890
Dibutyltin	TPT	Ave	45103	79444	216570	410413	780094	38.5	77.0	193	385	770
Monobutyltin	TPT	Ave	31978	66345	198576	361993	702461	31.0	62.0	155	310	620
Tripentyltin	TPT	Ave	37872	70372	184337	325845	626639	45.0	90.0	225	450	900

Curve Type Legend:

Ave = Average ISTD

TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_2.i/121112_1/11DEC121742.b/11dec121742-r031.d
Lab Smp Id: IC-406255 Client Smp ID: 50 PPB
Inj Date : 11-DEC-2012 18:18
Operator : RRM Inst ID: 2860_2.i
Smp Info : IC-406255,1,50 PPB
Misc Info :
Comment :
Method : /var/chem/2860_2.i/121112_1/11DEC121742.b/OR560_RTX5.m
Meth Date : 12-Dec-2012 10:03 rrm Quant Type: ISTD
Cal Date : 11-DEC-2012 18:18 Cal File: 11dec121742-r031.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: OR560_STD.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

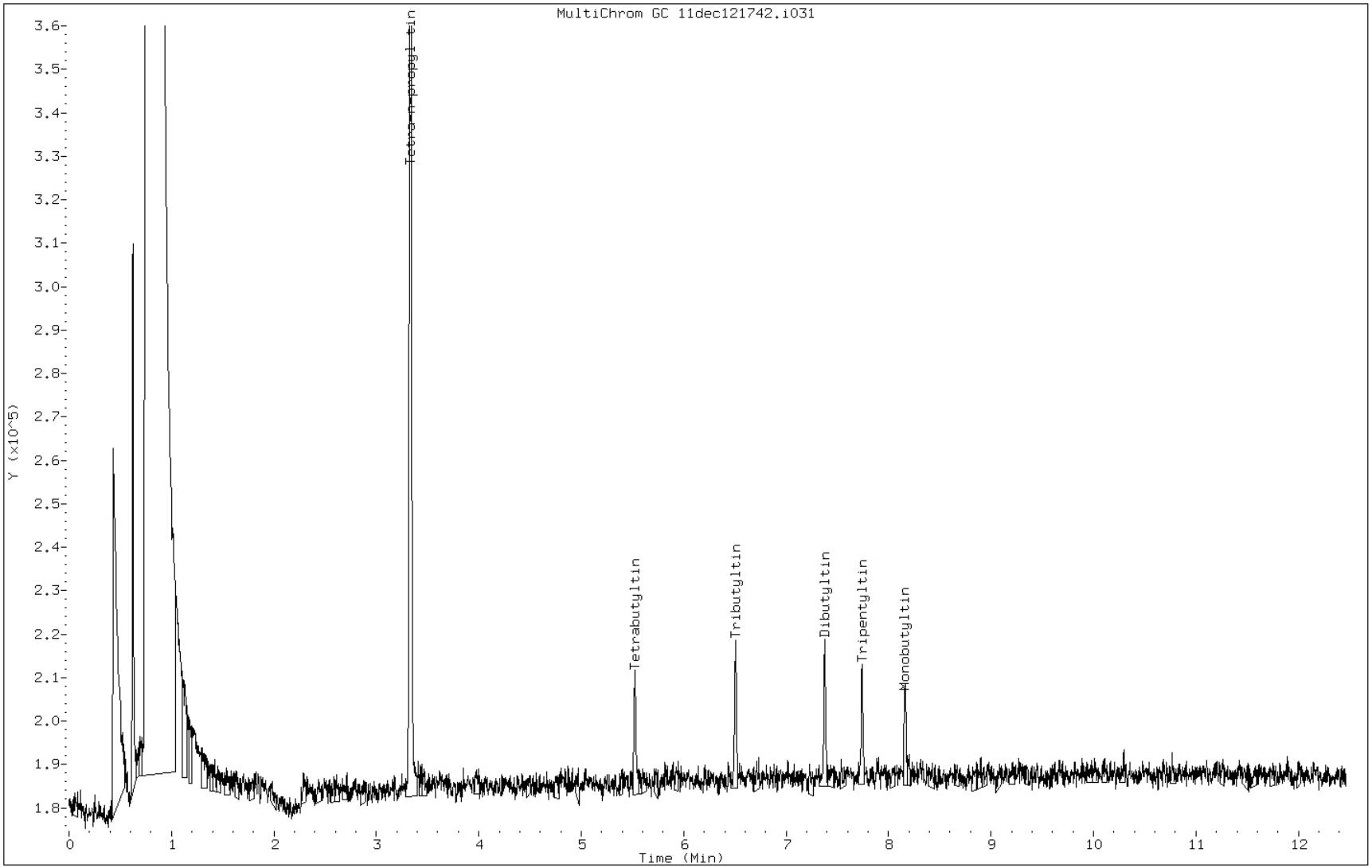
	RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	
*	1 Tetra-n-propyl tin				CAS #: 2176-98-9	
	3.332	3.305 (1.000)	425641	500.000		
	2 Tetrabutyltin				CAS #: 1461-25-2	
	5.526	5.515 (1.659)	42858	50.0000	61.41	(M)
	3 Tributyltin				CAS #: 688-73-3	
	6.506	6.495 (1.953)	46203	44.5000	50.15	
	4 Dibutyltin				CAS #: 1002-53-5	
	7.377	7.366 (2.214)	45103	38.5000	42.95	
$	5 Tripentyltin				CAS #: 3342-67-4	
	7.741	7.730 (2.323)	37872	45.0000	50.44	

RT	EXP RT	(REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	
6 Monobutyltin					CAS #: 2406-65-7	
8.162	8.148	(2.450)	31978	31.0000	29.00	(aM)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File:	11dec121742-r031.d	Date:	11-DEC-2012 18:18
Client ID:	50 PPB	Instrument:	2860_2.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-5		
Sample Info:	IC-406255,1,50 PPB		
Lab Sample ID:	IC-406255		



Manual Integration Report

Data File: 11dec121742-r031.d
Lab Sample ID: IC-406255
Inj. Date and Time: 11-DEC-2012 18:18
Instrument ID: 2860_2.i
Client ID: 50 PPB
Compound: 2 Tetrabutyltin
CAS #: 1461-25-2
Report Date: 12/13/2012

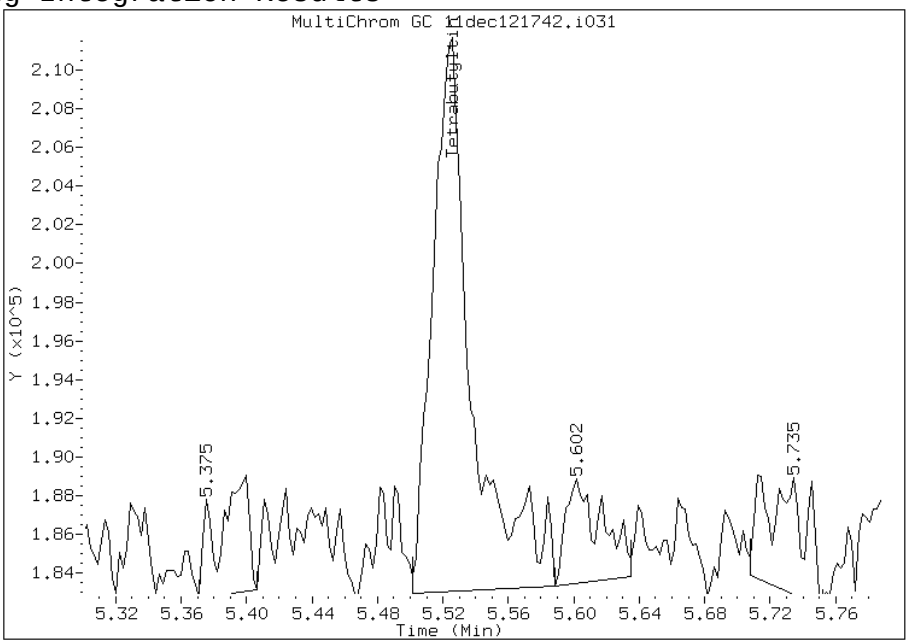
RT: 5.53

Processing Integration Results

Response: 48083

Amount: 68.90

Conc: 68.90



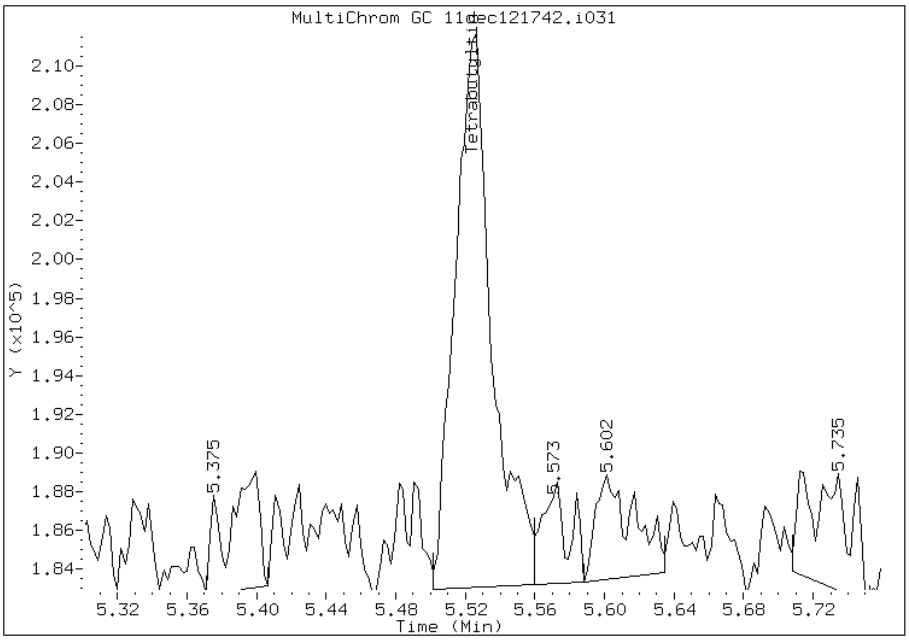
Manual Integration Results

RT: 5.53

Response: 42858

Amount: 61.41

Conc: 61.41



File Uploaded By: rrm
Manual Integration Reason: Split peak

Manual Integration Report

Data File: 11dec121742-r031.d
Lab Sample ID: IC-406255
Inj. Date and Time: 11-DEC-2012 18:18
Instrument ID: 2860_2.i
Client ID: 50 PPB
Compound: 6 Monobutyltin
CAS #: 2406-65-7
Report Date: 12/13/2012

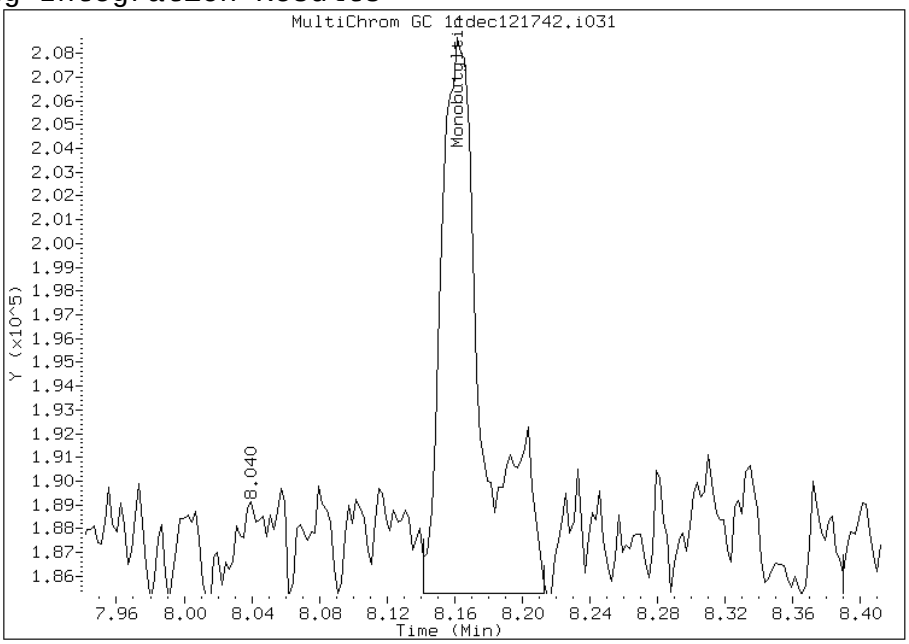
RT: 8.16

Processing Integration Results

Response: 39663

Amount: 35.97

Conc: 35.97



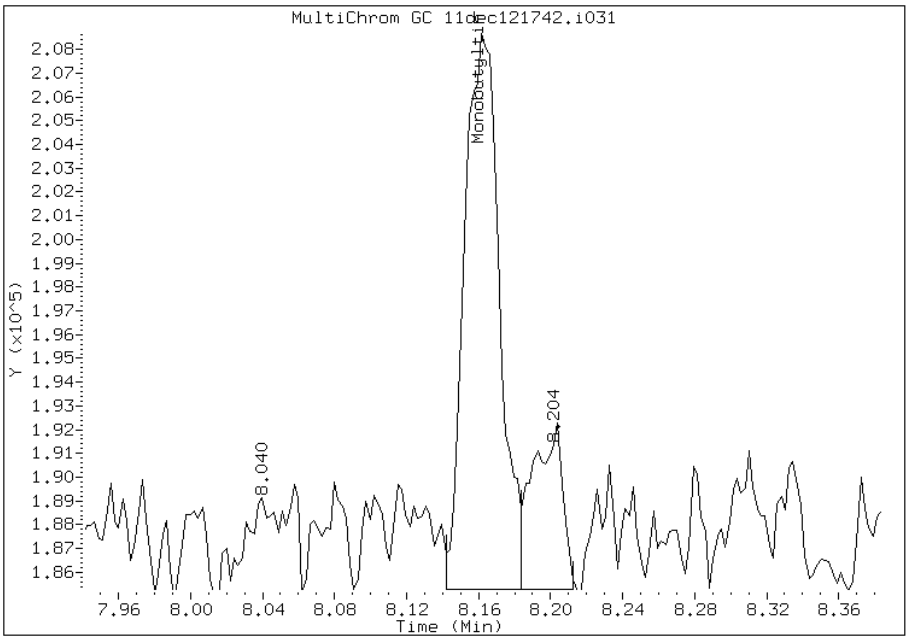
Manual Integration Results

RT: 8.16

Response: 31978

Amount: 29.00

Conc: 29.00



File Uploaded By: rrm
Manual Integration Reason: Split peak

TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_2.i/121112_1/11DEC121742.b/11dec121742-r041.d
Lab Smp Id: IC-406256 Client Smp ID: 100 PPB
Inj Date : 11-DEC-2012 18:35
Operator : RRM Inst ID: 2860_2.i
Smp Info : IC-406256,1,100 PPB
Misc Info :
Comment :
Method : /var/chem/2860_2.i/121112_1/11DEC121742.b/OR560_RTX5.m
Meth Date : 12-Dec-2012 10:03 rrm Quant Type: ISTD
Cal Date : 11-DEC-2012 18:35 Cal File: 11dec121742-r041.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: OR560_STD.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

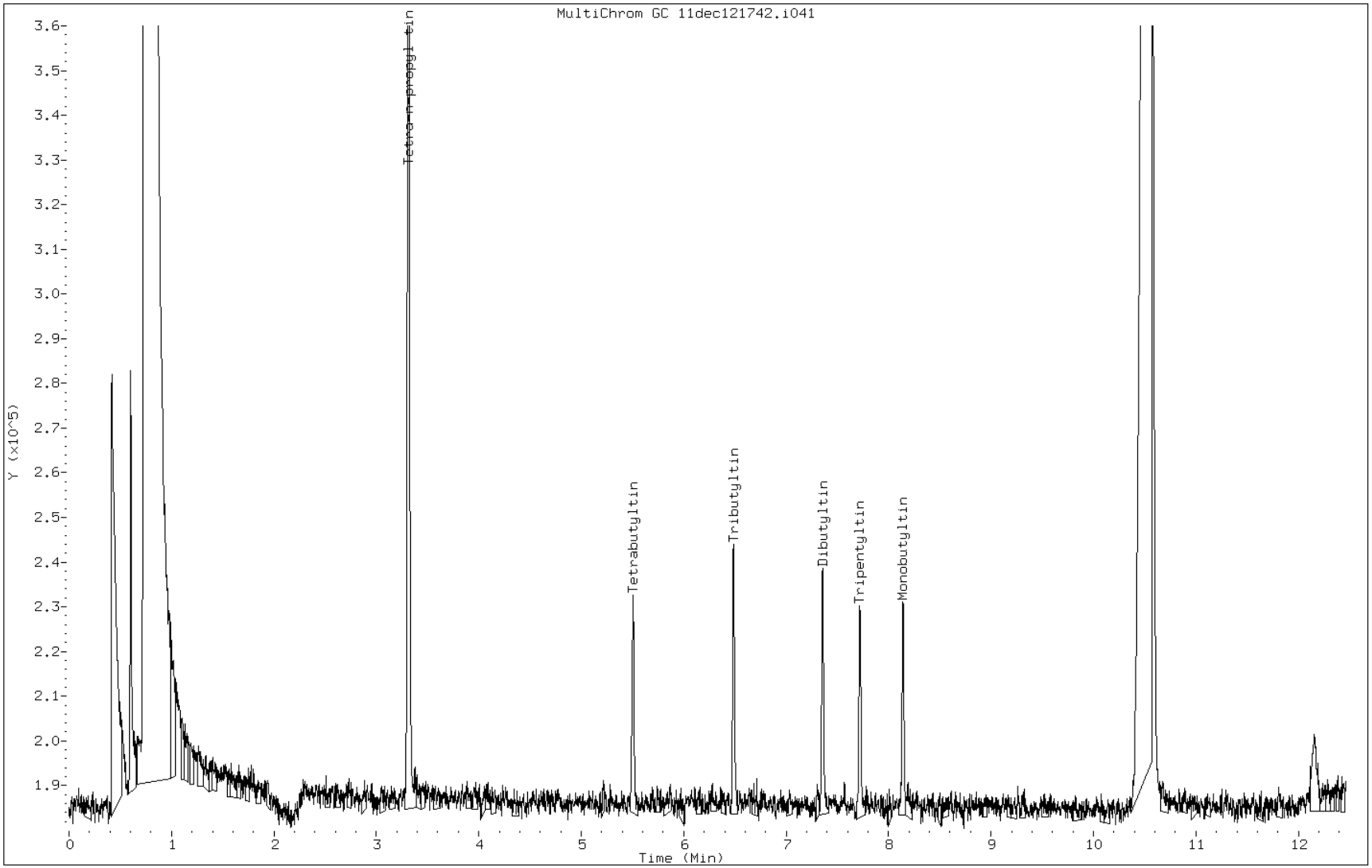
RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Tetra-n-propyl tin				CAS #: 2176-98-9
3.312	3.305 (1.000)	436639	500.000	
2 Tetrabutyltin				CAS #: 1461-25-2
5.504	5.515 (1.662)	70430	100.000	98.38
3 Tributyltin				CAS #: 688-73-3
6.486	6.495 (1.958)	81087	89.0000	85.79
4 Dibutyltin				CAS #: 1002-53-5
7.355	7.366 (2.221)	79444	77.0000	73.74
$ 5 Tripentyltin				CAS #: 3342-67-4
7.718	7.730 (2.331)	70372	90.0000	91.37

RT	EXP RT	(REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	
6 Monobutyltin					CAS #: 2406-65-7	
8.140	8.148	(2.473)	66345	62.0000	58.65	(M)

QC Flag Legend

M - Compound response manually integrated.

Data File:	11dec121742-r041.d	Date:	11-DEC-2012 18:35
Client ID:	100 PPB	Instrument:	2860_2.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-5		
Sample Info:	IC-406256,1,100 PPB		
Lab Sample ID:	IC-406256		



Manual Integration Report

Data File: 11dec121742-r041.d
Lab Sample ID: IC-406256
Inj. Date and Time: 11-DEC-2012 18:35
Instrument ID: 2860_2.i
Client ID: 100 PPB
Compound: 6 Monobutyltin
CAS #: 2406-65-7
Report Date: 12/13/2012

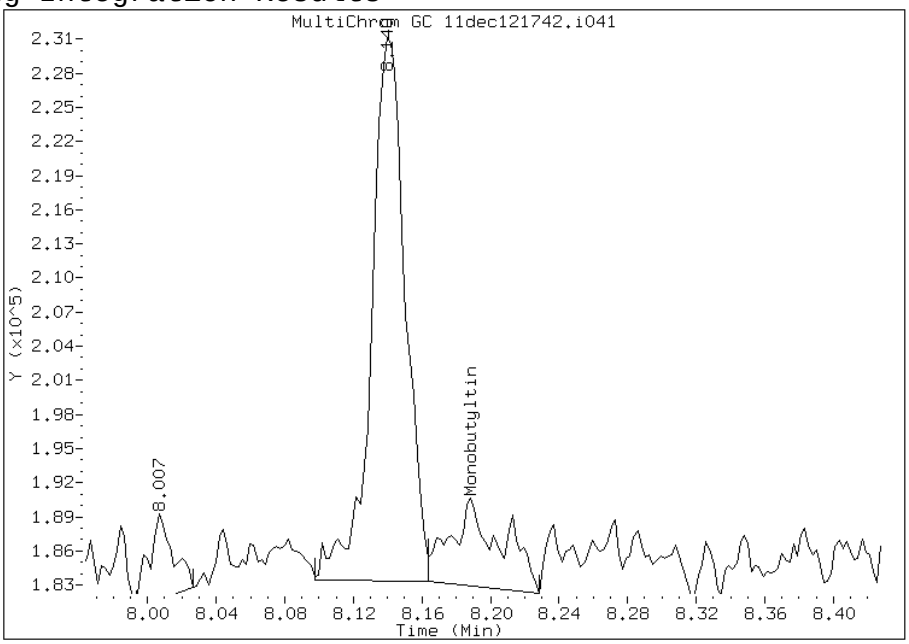
RT: 8.19

Processing Integration Results

Response: 15695

Amount: 13.87

Conc: 13.87



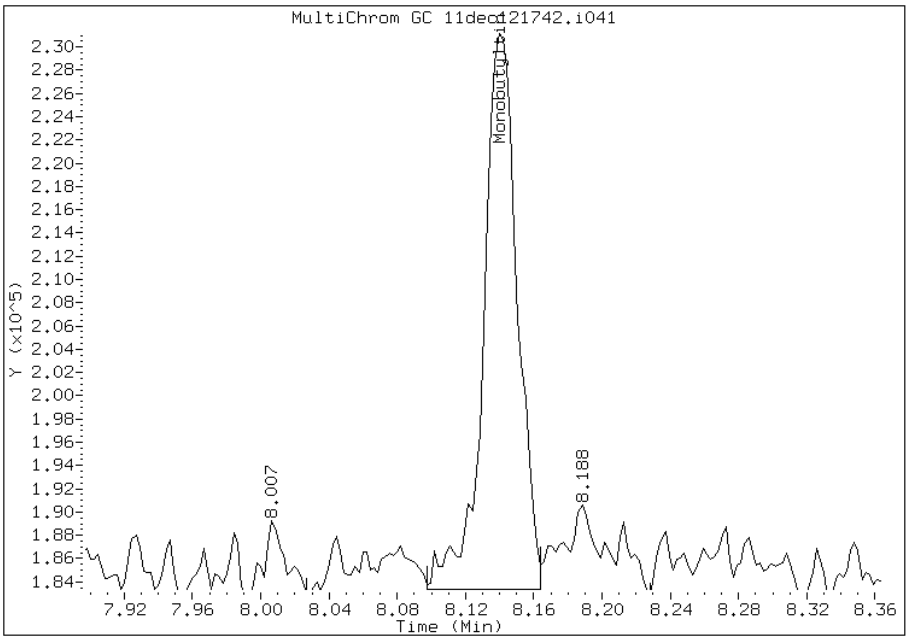
Manual Integration Results

RT: 8.14

Response: 66345

Amount: 58.65

Conc: 58.65



File Uploaded By: rrm
Manual Integration Reason: Analyte misidentified by the data system

TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_2.i/121112_1/11DEC121742.b/11dec121742-r051.d
Lab Smp Id: ICRT-406257 Client Smp ID: 250 PPB
Inj Date : 11-DEC-2012 18:52
Operator : RRM Inst ID: 2860_2.i
Smp Info : ICRT-406257,1,250 PPB
Misc Info :
Comment :
Method : /var/chem/2860_2.i/121112_1/11DEC121742.b/OR560_RTX5.m
Meth Date : 12-Dec-2012 10:03 rrm Quant Type: ISTD
Cal Date : 11-DEC-2012 18:52 Cal File: 11dec121742-r051.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: OR560_STD.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

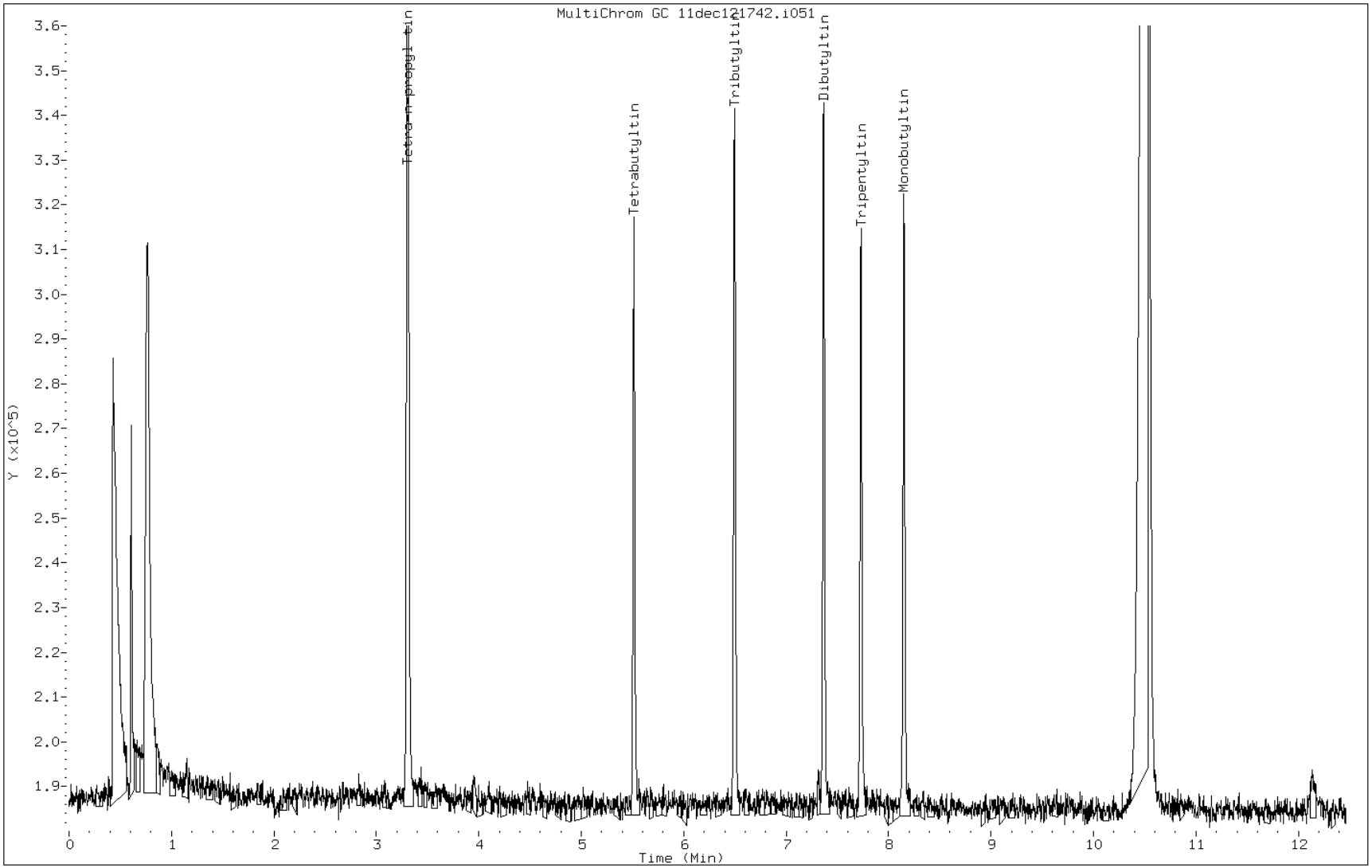
Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	
*	1 Tetra-n-propyl tin					CAS #: 2176-98-9
	3.305	3.305 (1.000)	446499	500.000		
	2 Tetrabutyltin					CAS #: 1461-25-2
	5.515	5.515 (1.669)	177548	250.000	242.5	
	3 Tributyltin					CAS #: 688-73-3
	6.495	6.495 (1.965)	213783	223.000	221.2	
	4 Dibutyltin					CAS #: 1002-53-5
	7.366	7.366 (2.229)	216570	193.000	196.6	
$	5 Tripentyltin					CAS #: 3342-67-4
	7.730	7.730 (2.339)	184337	225.000	234.1	

RT	EXP RT	(REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
6 Monobutyltin					CAS #: 2406-65-7
8.148	8.148	(2.465)	198576	155.000	171.7

Data File:	11dec121742-r051.d	Date:	11-DEC-2012 18:52
Client ID:	250 PPB	Instrument:	2860_2.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-5		
Sample Info:	ICRT-406257,1,250 PPB		
Lab Sample ID:	ICRT-406257		



TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_2.i/121112_1/11DEC121742.b/11dec121742-r061.d
Lab Smp Id: IC-406258 Client Smp ID: 500 PPB
Inj Date : 11-DEC-2012 19:09
Operator : RRM Inst ID: 2860_2.i
Smp Info : IC-406258,1,500 PPB
Misc Info :
Comment :
Method : /var/chem/2860_2.i/121112_1/11DEC121742.b/OR560_RTX5.m
Meth Date : 12-Dec-2012 10:03 rrm Quant Type: ISTD
Cal Date : 11-DEC-2012 19:09 Cal File: 11dec121742-r061.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: OR560_STD.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

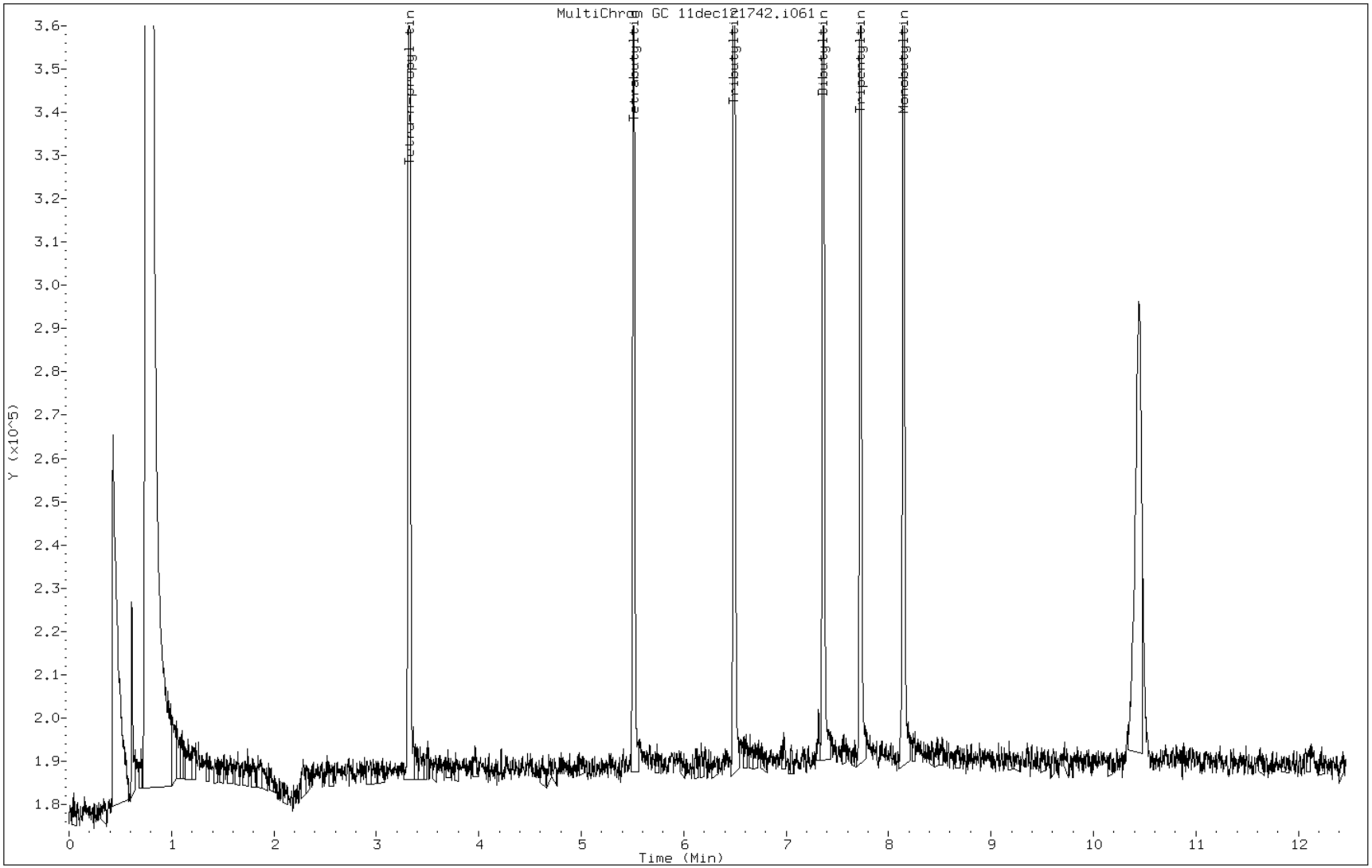
Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Tetra-n-propyl tin				CAS #: 2176-98-9
3.321	3.305 (1.000)	441000	500.000	
2 Tetrabutyltin				CAS #: 1461-25-2
5.513	5.515 (1.660)	330462	500.000	457.0
3 Tributyltin				CAS #: 688-73-3
6.493	6.495 (1.955)	412149	445.000	431.8
4 Dibutyltin				CAS #: 1002-53-5
7.362	7.366 (2.217)	410413	385.000	377.2
$ 5 Tripentyltin				CAS #: 3342-67-4
7.725	7.730 (2.326)	325845	450.000	418.9

RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
6 Monobutyltin				CAS #: 2406-65-7
8.148	8.148 (2.454)	361993	310.000	316.8

Data File:	11dec121742-r061.d	Date:	11-DEC-2012 19:09
Client ID:	500 PPB	Instrument:	2860_2.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-5		
Sample Info:	IC-406258,1,500 PPB		
Lab Sample ID:	IC-406258		



TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_2.i/121112_1/11DEC121742.b/11dec121742-r071.d
Lab Smp Id: IC-406259 Client Smp ID: 1000 PPB
Inj Date : 11-DEC-2012 19:26
Operator : RRM Inst ID: 2860_2.i
Smp Info : IC-406259,1,1000 PPB
Misc Info :
Comment :
Method : /var/chem/2860_2.i/121112_1/11DEC121742.b/OR560_RTX5.m
Meth Date : 12-Dec-2012 10:03 rrm Quant Type: ISTD
Cal Date : 11-DEC-2012 19:26 Cal File: 11dec121742-r071.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: OR560_STD.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

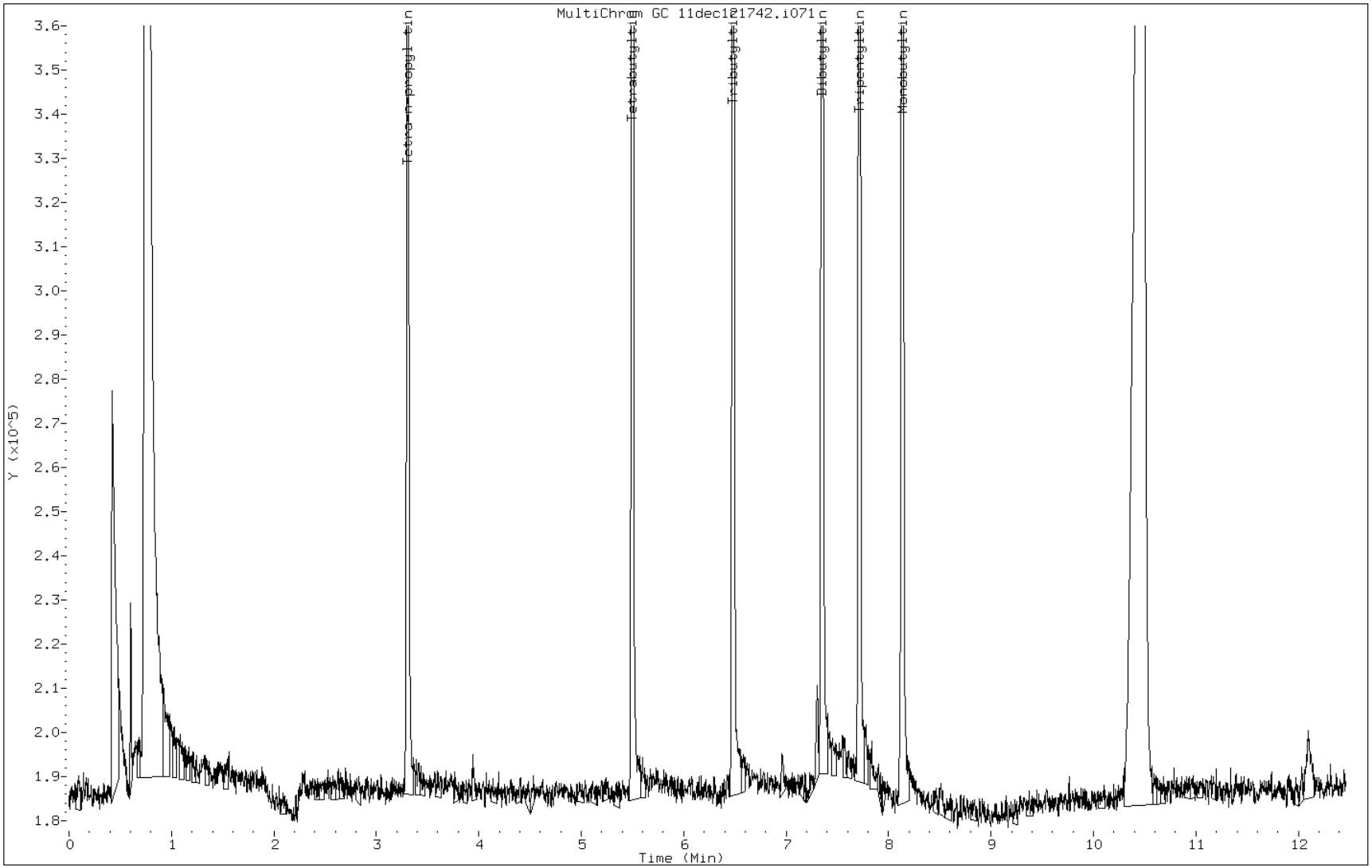
Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	
*	1 Tetra-n-propyl tin					CAS #: 2176-98-9
	3.305	3.305 (1.000)	442117	500.000		
	2 Tetrabutyltin					CAS #: 1461-25-2
	5.500	5.515 (1.664)	655061	1000.00	903.7	
	3 Tributyltin					CAS #: 688-73-3
	6.482	6.495 (1.961)	806585	890.000	842.8	
	4 Dibutyltin					CAS #: 1002-53-5
	7.350	7.366 (2.224)	780094	770.000	715.1	
$	5 Tripentyltin					CAS #: 3342-67-4
	7.714	7.730 (2.334)	626639	900.000	803.5	

RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
6 Monobutyltin				CAS #: 2406-65-7
8.135	8.148 (2.461)	702461	620.000	613.3

Data File:	11dec121742-r071.d	Date:	11-DEC-2012 19:26
Client ID:	1000 PPB	Instrument:	2860_2.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-5		
Sample Info:	IC-406259,1,1000 PPB		
Lab Sample ID:	IC-406259		



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

Lab Name: TestAmerica Burlington Job No.: 480-29598-1 Analy Batch No.: 49749

SDG No.:

Instrument ID: 2860.i GC Column: RTX-35 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/17/2012 15:29 Calibration End Date: 12/17/2012 16:37 Calibration ID: 19720

Calibration Files:

LEVEL:	LAB SAMPLE ID:	EPA SAMPLE NO:	LAB FILE ID:
Level 1	IC 200-49749/1	50 PPB	17dec121447-r031.d
Level 2	IC 200-49749/2	100 PPB	17dec121447-r041.d
Level 3	ICRT 200-49749/3	250 PPB	17dec121447-r051.d
Level 4	IC 200-49749/4	500 PPB	17dec121447-r061.d
Level 5	IC 200-49749/5	1000 PPB	17dec121447-r071.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Tetrabutyltin	0.8086	0.6636	0.6476	0.6148	0.6192	Ave		0.6708				11.9		20.0			
Tributyltin	0.8131	0.7495	0.7715	0.7331	0.7251	Ave		0.7585				4.7		20.0			
Dibutyltin	0.7936	0.7572	0.7639	0.7326	0.7469	Ave		0.7588				3.0		20.0			
Monobutyltin	0.8808	0.6857	0.7042	0.6849	0.6912	Ave		0.7294				11.7		20.0			
Tripentyltin	0.6729	0.4974	0.5200	0.4783	0.4822	Ave		0.5302				15.4		20.0			

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

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

Lab Name: TestAmerica Burlington Job No.: 480-29598-1 Analy Batch No.: 49749

SDG No.:

Instrument ID: 2860.i GC Column: RTX-35 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/17/2012 15:29 Calibration End Date: 12/17/2012 16:37 Calibration ID: 19720

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-49749/1	17dec121447-r031.d
Level 2	IC 200-49749/2	17dec121447-r041.d
Level 3	ICRT 200-49749/3	17dec121447-r051.d
Level 4	IC 200-49749/4	17dec121447-r061.d
Level 5	IC 200-49749/5	17dec121447-r071.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Tetrabutyltin	TPT	Ave	25837	43184	101927	213945	440594	50.0	100	250	500	1000
Tributyltin	TPT	Ave	23124	43412	108315	227035	459147	44.5	89.0	223	445	890
Dibutyltin	TPT	Ave	19525	37945	92811	196285	409229	38.5	77.0	193	385	770
Monobutyltin	TPT	Ave	17449	27666	68712	147767	304929	31.0	62.0	155	310	620
Tripentyltin	TPT	Ave	19351	29131	73655	149785	308809	45.0	90.0	225	450	900

Curve Type Legend:

Ave = Average ISTD

TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_1.i/121712_1/17DEC121447.b/17dec121447-r031.d
Lab Smp Id: IC-406255 Client Smp ID: 50 PPB
Inj Date : 17-DEC-2012 15:29
Operator : RRM Inst ID: 2860_1.i
Smp Info : IC-406255,1,50 PPB
Misc Info :
Comment :
Method : /var/chem/2860_1.i/121712_1/17DEC121447.b/OR560_RTX35.m
Meth Date : 18-Dec-2012 09:41 rrm Quant Type: ISTD
Cal Date : 17-DEC-2012 15:29 Cal File: 17dec121447-r031.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: OR560_STD.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

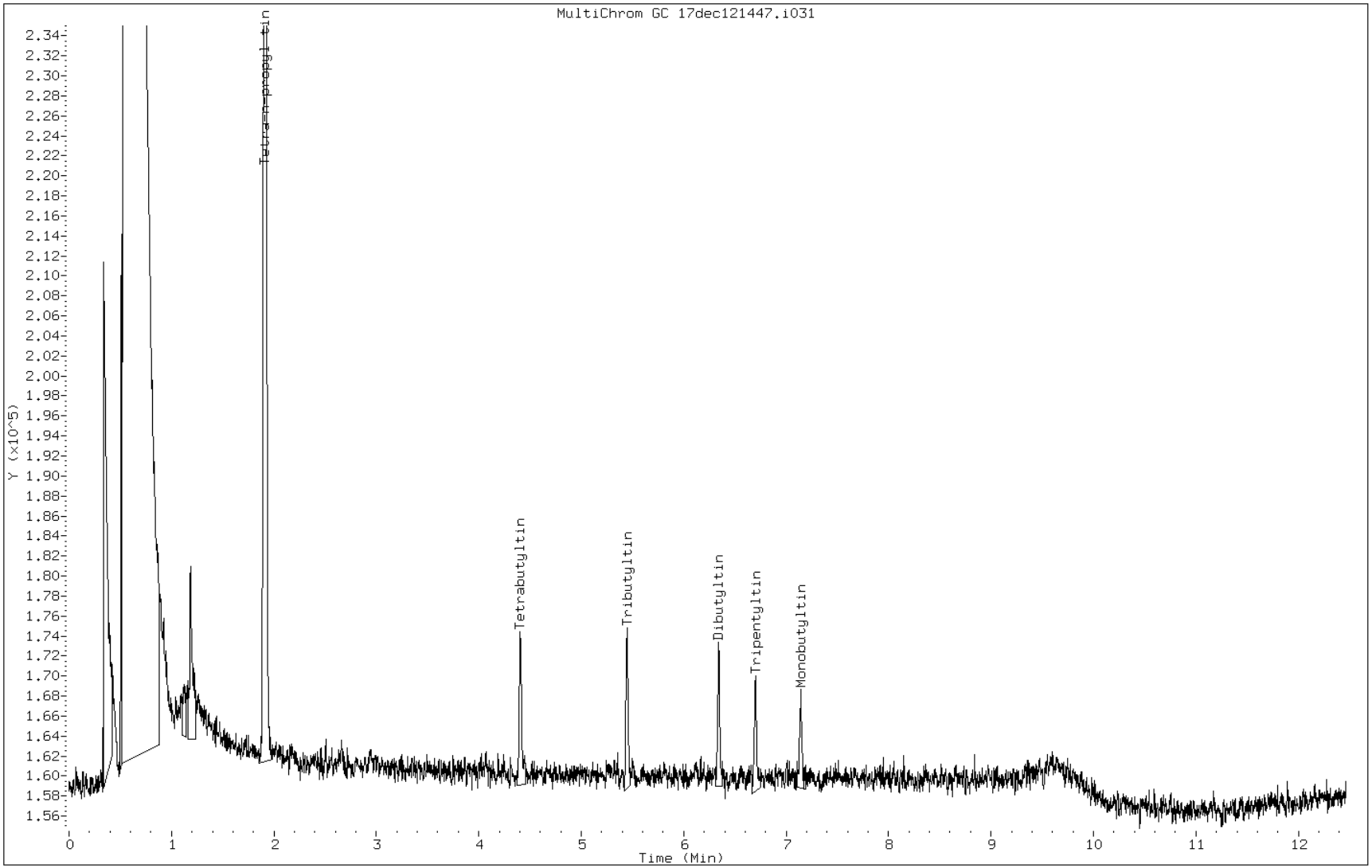
Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
*	1 Tetra-n-propyl tin				CAS #: 2176-98-9
	1.913	1.871 (1.000)	319526	500.000	
	2 Tetrabutyltin				CAS #: 1461-25-2
	4.405	4.402 (2.302)	25837	50.0000	60.27
	3 Tributyltin				CAS #: 688-73-3
	5.449	5.446 (2.848)	23124	44.5000	47.71
	4 Dibutyltin				CAS #: 1002-53-5
	6.342	6.340 (3.315)	19525	38.5000	40.26
$	5 Tripentyltin				CAS #: 3342-67-4
	6.701	6.701 (3.503)	19351	45.0000	57.12

RT	EXP RT	(REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
6 Monobutyltin					CAS #: 2406-65-7
7.144	7.140	(3.735)	17449	31.0000	37.44

Data File:	17dec121447-r031.d	Date:	17-DEC-2012 15:29
Client ID:	50 PPB	Instrument:	2860_1.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-35		
Sample Info:	IC-406255,1,50 PPB		
Lab Sample ID:	IC-406255		



TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_1.i/121712_1/17DEC121447.b/17dec121447-r041.d
Lab Smp Id: IC-406256 Client Smp ID: 100 PPB
Inj Date : 17-DEC-2012 15:46
Operator : RRM Inst ID: 2860_1.i
Smp Info : IC-406256,1,100 PPB
Misc Info :
Comment :
Method : /var/chem/2860_1.i/121712_1/17DEC121447.b/OR560_RTX35.m
Meth Date : 18-Dec-2012 09:41 rrm Quant Type: ISTD
Cal Date : 17-DEC-2012 15:46 Cal File: 17dec121447-r041.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: OR560_STD.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

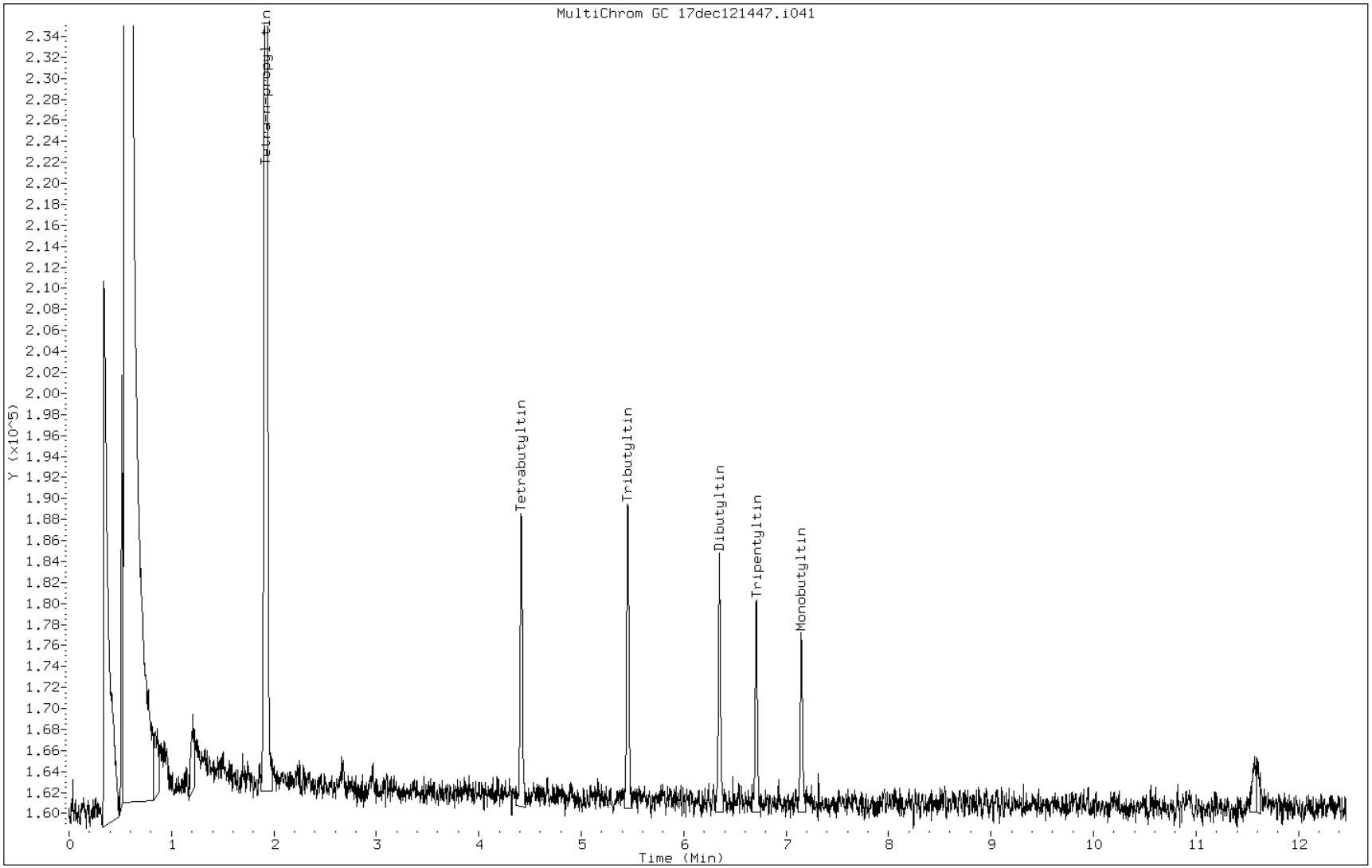
Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Tetra-n-propyl tin				CAS #: 2176-98-9
1.920	1.871 (1.000)	325393	500.000	
2 Tetrabutyltin				CAS #: 1461-25-2
4.413	4.402 (2.299)	43184	100.000	98.93
3 Tributyltin				CAS #: 688-73-3
5.453	5.446 (2.841)	43412	89.0000	87.95
4 Dibutyltin				CAS #: 1002-53-5
6.349	6.340 (3.307)	37945	77.0000	76.84
$ 5 Tripentyltin				CAS #: 3342-67-4
6.710	6.701 (3.495)	29131	90.0000	84.43

RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
6 Monobutyltin				CAS #: 2406-65-7
7.149	7.140 (3.724)	27666	62.0000	58.29

Data File:	17dec121447-r041.d	Date:	17-DEC-2012 15:46
Client ID:	100 PPB	Instrument:	2860_1.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-35		
Sample Info:	IC-406256,1,100 PPB		
Lab Sample ID:	IC-406256		



TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_1.i/121712_1/17DEC121447.b/17dec121447-r051.d
Lab Smp Id: ICRT-406257 Client Smp ID: 250 PPB
Inj Date : 17-DEC-2012 16:03
Operator : RRM Inst ID: 2860_1.i
Smp Info : ICRT-406257,1,250 PPB
Misc Info :
Comment :
Method : /var/chem/2860_1.i/121712_1/17DEC121447.b/OR560_RTX35.m
Meth Date : 18-Dec-2012 09:41 rrm Quant Type: ISTD
Cal Date : 17-DEC-2012 16:03 Cal File: 17dec121447-r051.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: OR560_STD.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

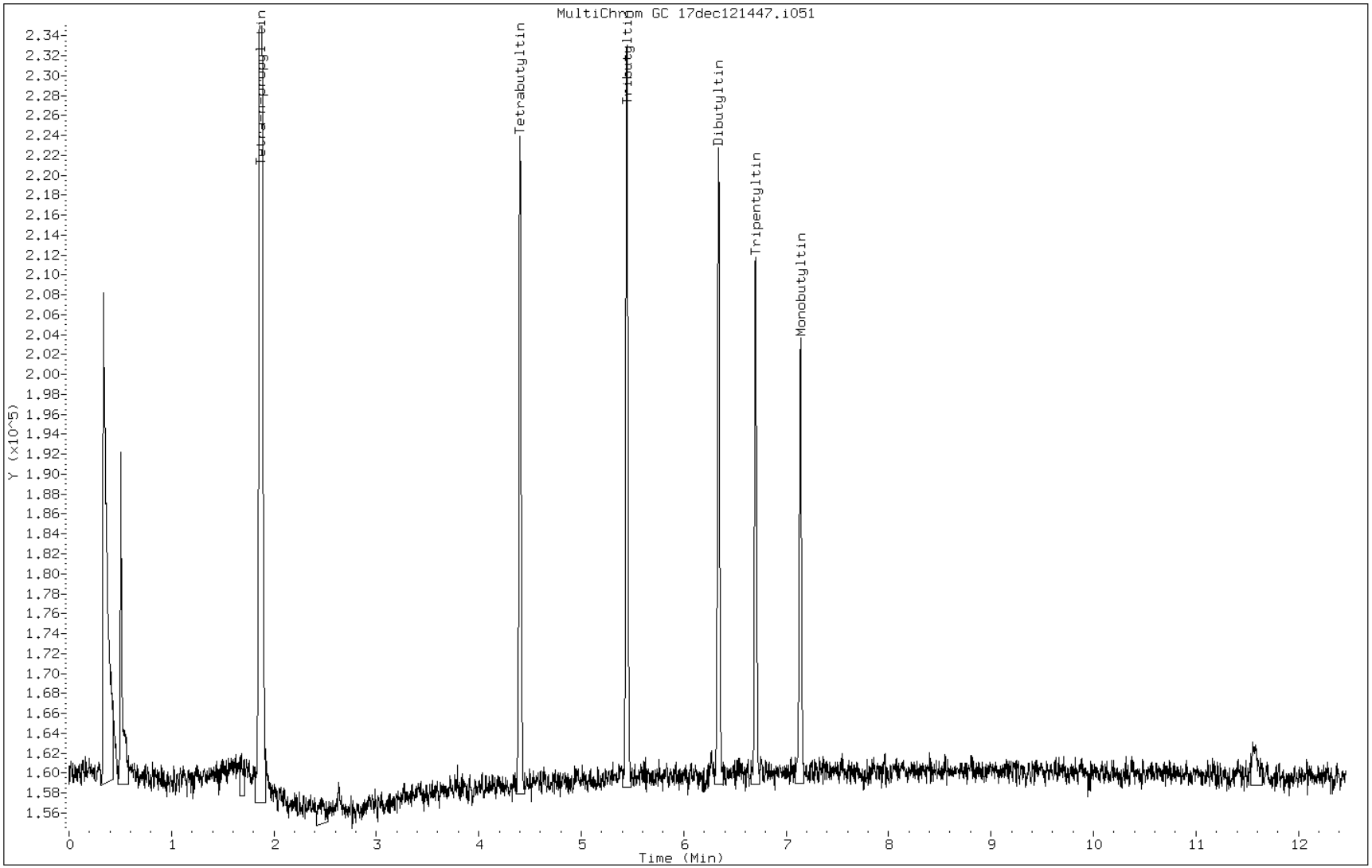
Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	
*	1 Tetra-n-propyl tin					CAS #: 2176-98-9
	1.871	1.871 (1.000)	314770	500.000		
	2 Tetrabutyltin					CAS #: 1461-25-2
	4.402	4.402 (2.353)	101927	250.000	241.4	
	3 Tributyltin					CAS #: 688-73-3
	5.446	5.446 (2.911)	108315	223.000	226.8	
	4 Dibutyltin					CAS #: 1002-53-5
	6.340	6.340 (3.389)	92811	193.000	194.3	
$	5 Tripentyltin					CAS #: 3342-67-4
	6.701	6.701 (3.582)	73655	225.000	220.7	

RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
6 Monobutyltin				CAS #: 2406-65-7
7.140	7.140 (3.816)	68712	155.000	149.6

Data File:	17dec121447-r051.d	Date:	17-DEC-2012 16:03
Client ID:	250 PPB	Instrument:	2860_1.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-35		
Sample Info:	ICRT-406257,1,250 PPB		
Lab Sample ID:	ICRT-406257		



TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_1.i/121712_1/17DEC121447.b/17dec121447-r061.d
Lab Smp Id: IC-406258 Client Smp ID: 500 PPB
Inj Date : 17-DEC-2012 16:20
Operator : RRM Inst ID: 2860_1.i
Smp Info : IC-406258,1,500 PPB
Misc Info :
Comment :
Method : /var/chem/2860_1.i/121712_1/17DEC121447.b/OR560_RTX35.m
Meth Date : 18-Dec-2012 09:41 rrm Quant Type: ISTD
Cal Date : 17-DEC-2012 16:20 Cal File: 17dec121447-r061.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: OR560_STD.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

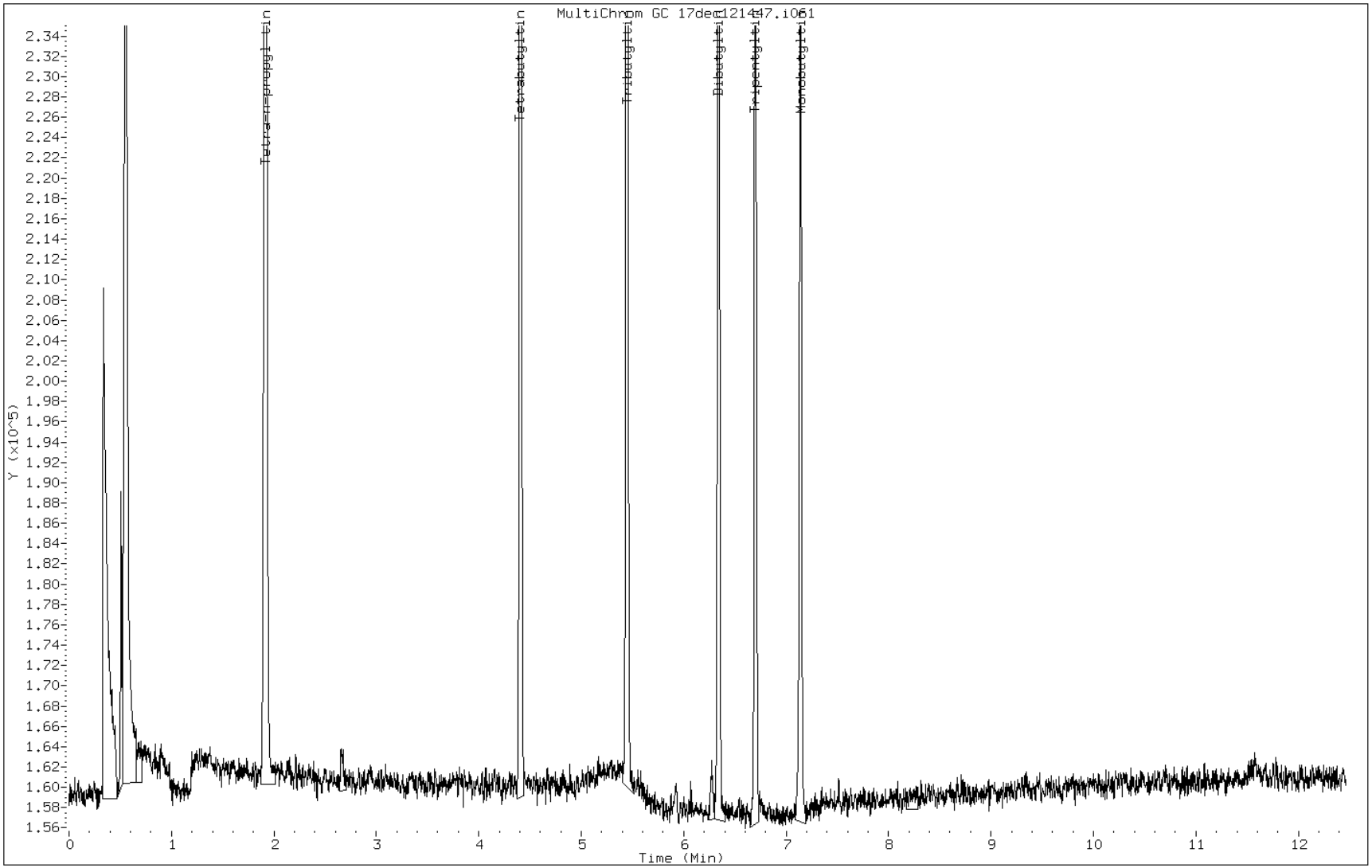
	RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	
*	1 Tetra-n-propyl tin				CAS #: 2176-98-9	
	1.917	1.871 (1.000)	347980	500.000		
	2 Tetrabutyltin				CAS #: 1461-25-2	
	4.405	4.402 (2.297)	213945	500.000	458.3	
	3 Tributyltin				CAS #: 688-73-3	
	5.446	5.446 (2.840)	227035	445.000	430.1	(M)
	4 Dibutyltin				CAS #: 1002-53-5	
	6.340	6.340 (3.306)	196285	385.000	371.7	
$	5 Tripentyltin				CAS #: 3342-67-4	
	6.699	6.701 (3.494)	149785	450.000	406.0	

RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
6 Monobutyltin				CAS #: 2406-65-7
7.140	7.140 (3.724)	147767	310.000	291.1

QC Flag Legend

M - Compound response manually integrated.

Data File:	17dec121447-r061.d	Date:	17-DEC-2012 16:20
Client ID:	500 PPB	Instrument:	2860_1.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-35		
Sample Info:	IC-406258,1,500 PPB		
Lab Sample ID:	IC-406258		



Manual Integration Report

Data File: 17dec121447-r061.d
Lab Sample ID: IC-406258
Inj. Date and Time: 17-DEC-2012 16:20
Instrument ID: 2860_1.i
Client ID: 500 PPB
Compound: 3 Tributyltin
CAS #: 688-73-3
Report Date: 12/19/2012

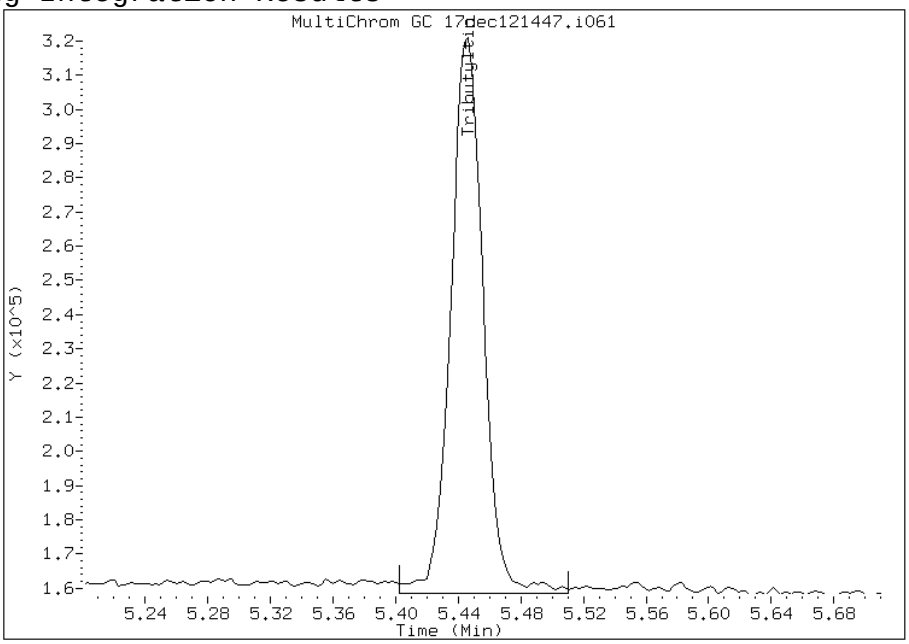
Processing Integration Results

RT: 5.45

Response: 236233

Amount: 447.53

Conc: 447.50



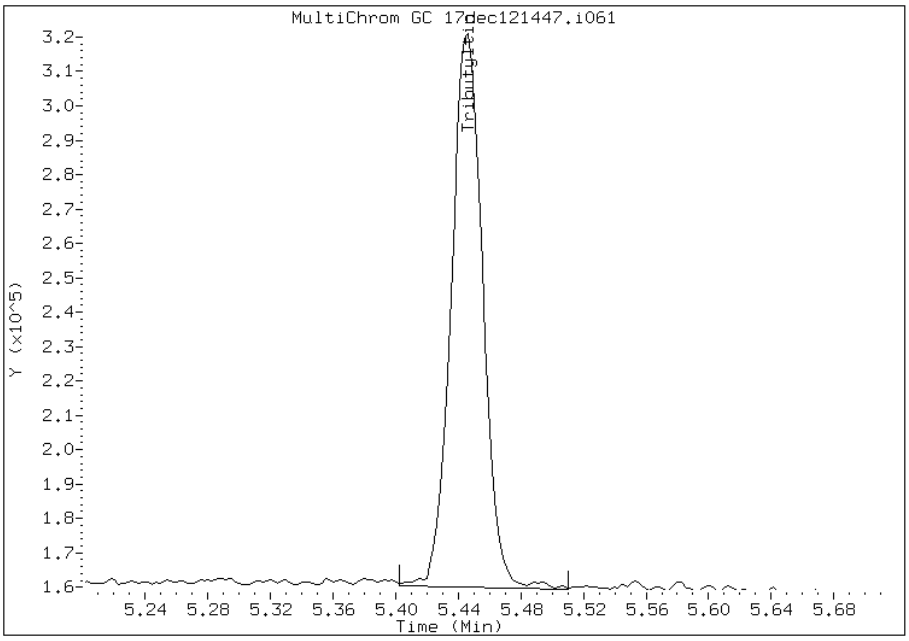
Manual Integration Results

RT: 5.45

Response: 227035

Amount: 430.10

Conc: 430.10



File Uploaded By: sld
Manual Integration Reason: Baseline event

TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_1.i/121712_1/17DEC121447.b/17dec121447-r071.d
Lab Smp Id: IC-406259 Client Smp ID: 1000 PPB
Inj Date : 17-DEC-2012 16:37
Operator : RRM Inst ID: 2860_1.i
Smp Info : IC-406259,1,1000 PPB
Misc Info :
Comment :
Method : /var/chem/2860_1.i/121712_1/17DEC121447.b/OR560_RTX35.m
Meth Date : 18-Dec-2012 09:41 rrm Quant Type: ISTD
Cal Date : 17-DEC-2012 16:37 Cal File: 17dec121447-r071.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: OR560_STD.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

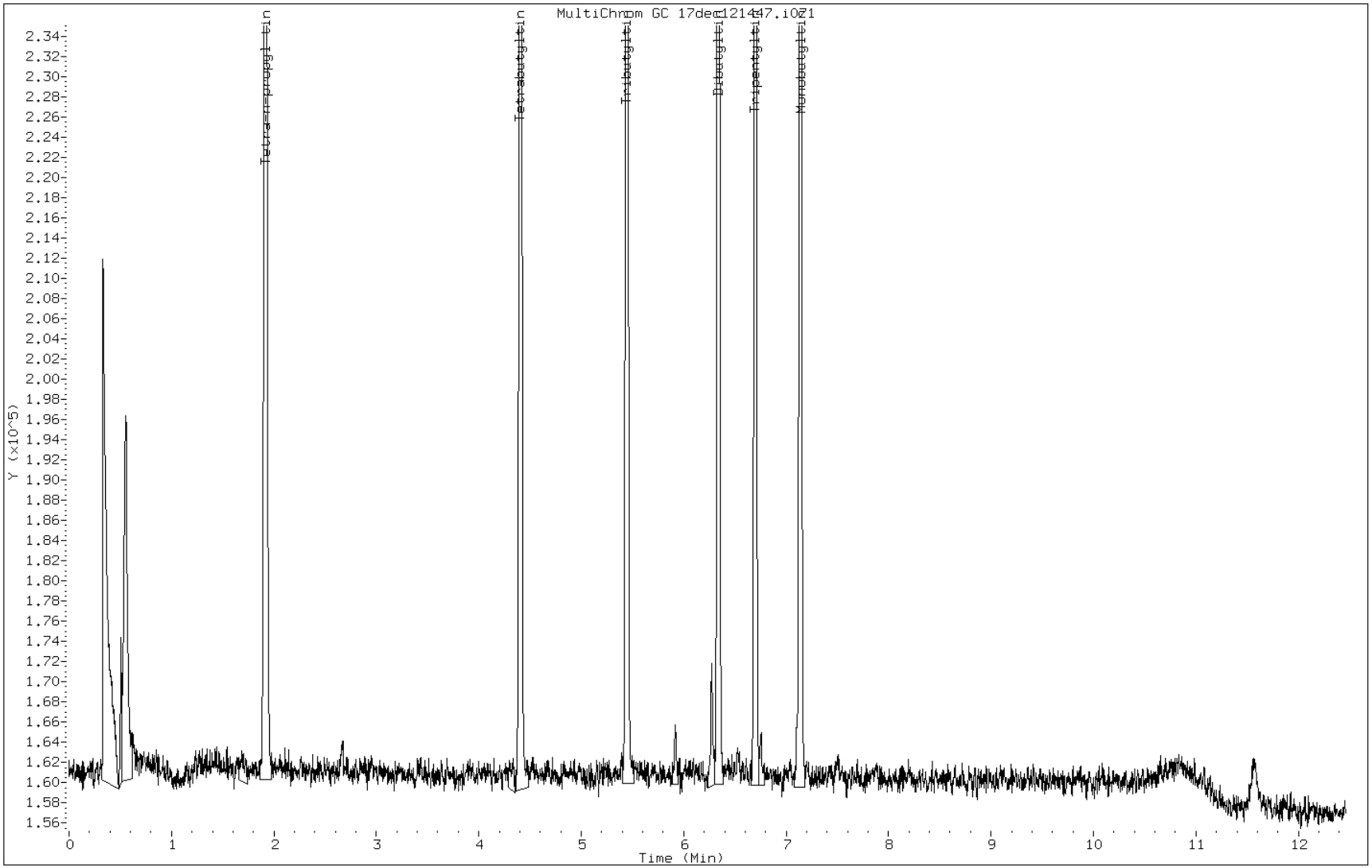
Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	
*	1 Tetra-n-propyl tin					CAS #: 2176-98-9
	1.917	1.871 (1.000)	355761	500.000		
	2 Tetrabutyltin					CAS #: 1461-25-2
	4.405	4.402 (2.297)	440594	1000.00	923.2	
	3 Tributyltin					CAS #: 688-73-3
	5.444	5.446 (2.839)	459147	890.000	850.8	
	4 Dibutyltin					CAS #: 1002-53-5
	6.340	6.340 (3.306)	409229	770.000	757.9	
$	5 Tripentyltin					CAS #: 3342-67-4
	6.697	6.701 (3.492)	308809	900.000	818.7	

RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
6 Monobutyltin				CAS #: 2406-65-7
7.140	7.140 (3.724)	304929	620.000	587.6

Data File:	17dec121447-r071.d	Date:	17-DEC-2012 16:37
Client ID:	1000 PPB	Instrument:	2860_1.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-35		
Sample Info:	IC-406259,1,1000 PPB		
Lab Sample ID:	IC-406259		



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

Lab Name: TestAmerica Burlington Job No.: 480-29598-1 Analy Batch No.: 49749

SDG No.:

Instrument ID: 2860.i GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/17/2012 15:29 Calibration End Date: 12/17/2012 16:37 Calibration ID: 19721

Calibration Files:

LEVEL:	LAB SAMPLE ID:	EPA SAMPLE NO:	LAB FILE ID:
Level 1	IC 200-49749/1	50 PPB	17dec121447-r031.d
Level 2	IC 200-49749/2	100 PPB	17dec121447-r041.d
Level 3	ICRT 200-49749/3	250 PPB	17dec121447-r051.d
Level 4	IC 200-49749/4	500 PPB	17dec121447-r061.d
Level 5	IC 200-49749/5	1000 PPB	17dec121447-r071.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Tetrabutyltin	0.9312	0.8240	0.8160	0.7913	0.7362	Ave		0.8197				8.7		20.0			
Tributyltin	1.2182	1.1403	1.0882	1.0220	1.0118	Ave		1.0961				7.8		20.0			
Dibutyltin	1.3680	1.1964	1.2146	1.1491	1.1503	Ave		1.2157				7.4		20.0			
Monobutyltin	1.3407	1.3377	1.3887	1.3378	1.2782	Ave		1.3366				2.9		20.0			
Tripentyltin	1.0678	1.0012	0.8947	0.7786	0.7912	Ave		0.9067				14.0		20.0			

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

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

Lab Name: TestAmerica Burlington Job No.: 480-29598-1 Analy Batch No.: 49749

SDG No.:

Instrument ID: 2860.i GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/17/2012 15:29 Calibration End Date: 12/17/2012 16:37 Calibration ID: 19721

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-49749/1	17dec121447-r031.d
Level 2	IC 200-49749/2	17dec121447-r041.d
Level 3	ICRT 200-49749/3	17dec121447-r051.d
Level 4	IC 200-49749/4	17dec121447-r061.d
Level 5	IC 200-49749/5	17dec121447-r071.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Tetrabutyltin	TPT	Ave	34576	63061	158345	335099	634073	50.0	100	250	500	1000
Tributyltin	TPT	Ave	40258	77663	188358	385209	775573	44.5	89.0	223	445	890
Dibutyltin	TPT	Ave	39111	70499	181962	374718	762822	38.5	77.0	193	385	770
Monobutyltin	TPT	Ave	30863	63469	167081	351266	682559	31.0	62.0	155	310	620
Tripentyltin	TPT	Ave	35684	68959	156252	296780	613307	45.0	90.0	225	450	900

Curve Type Legend:

Ave = Average ISTD

TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_2.i/121712_1/17DEC121447.b/17dec121447-r031.d
Lab Smp Id: IC-406255 Client Smp ID: 50 PPB
Inj Date : 17-DEC-2012 15:29
Operator : RRM Inst ID: 2860_2.i
Smp Info : IC-406255,1,50 PPB
Misc Info :
Comment :
Method : /var/chem/2860_2.i/121712_1/17DEC121447.b/OR560_RTX5.m
Meth Date : 18-Dec-2012 09:48 rrm Quant Type: ISTD
Cal Date : 17-DEC-2012 15:29 Cal File: 17dec121447-r031.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: OR560_STD.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

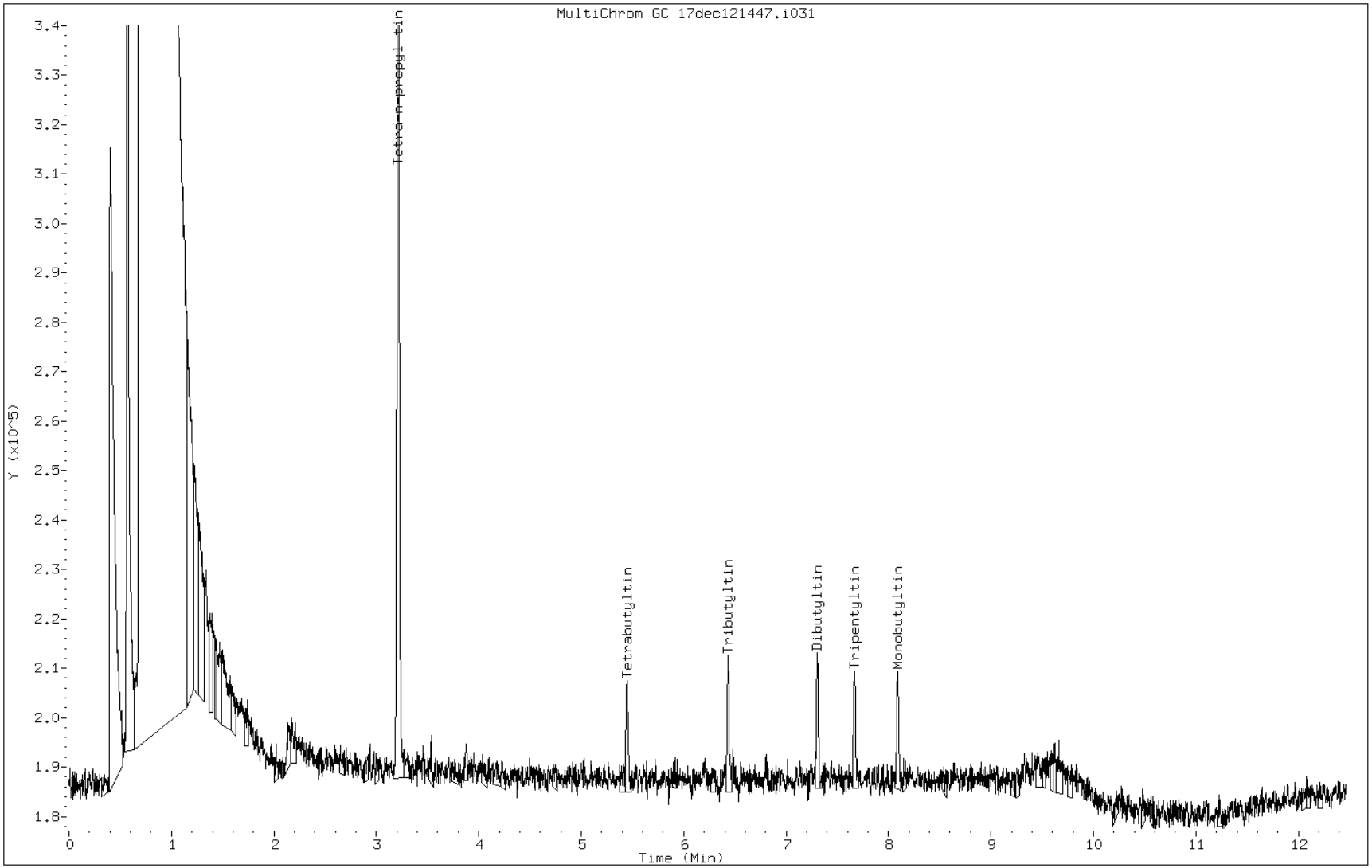
Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	
*	1 Tetra-n-propyl tin					CAS #: 2176-98-9
	3.214	3.194 (1.000)	371305	500.000		
	2 Tetrabutyltin					CAS #: 1461-25-2
	5.449	5.446 (1.695)	34576	50.0000	56.80	
	3 Tributyltin					CAS #: 688-73-3
	6.433	6.433 (2.001)	40258	44.5000	49.46	
	4 Dibutyltin					CAS #: 1002-53-5
	7.304	7.304 (2.272)	39111	38.5000	43.32	
$	5 Tripentyltin					CAS #: 3342-67-4
	7.665	7.670 (2.385)	35684	45.0000	53.00	

RT	EXP RT	(REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
6 Monobutyltin					CAS #: 2406-65-7
8.086	8.086	(2.516)	30863	31.0000	31.09

Data File:	17dec121447-r031.d	Date:	17-DEC-2012 15:29
Client ID:	50 PPB	Instrument:	2860_2.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-5		
Sample Info:	IC-406255,1,50 PPB		
Lab Sample ID:	IC-406255		



TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_2.i/121712_1/17DEC121447.b/17dec121447-r041.d
Lab Smp Id: IC-406256 Client Smp ID: 100 PPB
Inj Date : 17-DEC-2012 15:46
Operator : RRM Inst ID: 2860_2.i
Smp Info : IC-406256,1,100 PPB
Misc Info :
Comment :
Method : /var/chem/2860_2.i/121712_1/17DEC121447.b/OR560_RTX5.m
Meth Date : 18-Dec-2012 09:48 rrm Quant Type: ISTD
Cal Date : 17-DEC-2012 15:46 Cal File: 17dec121447-r041.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: OR560_STD.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

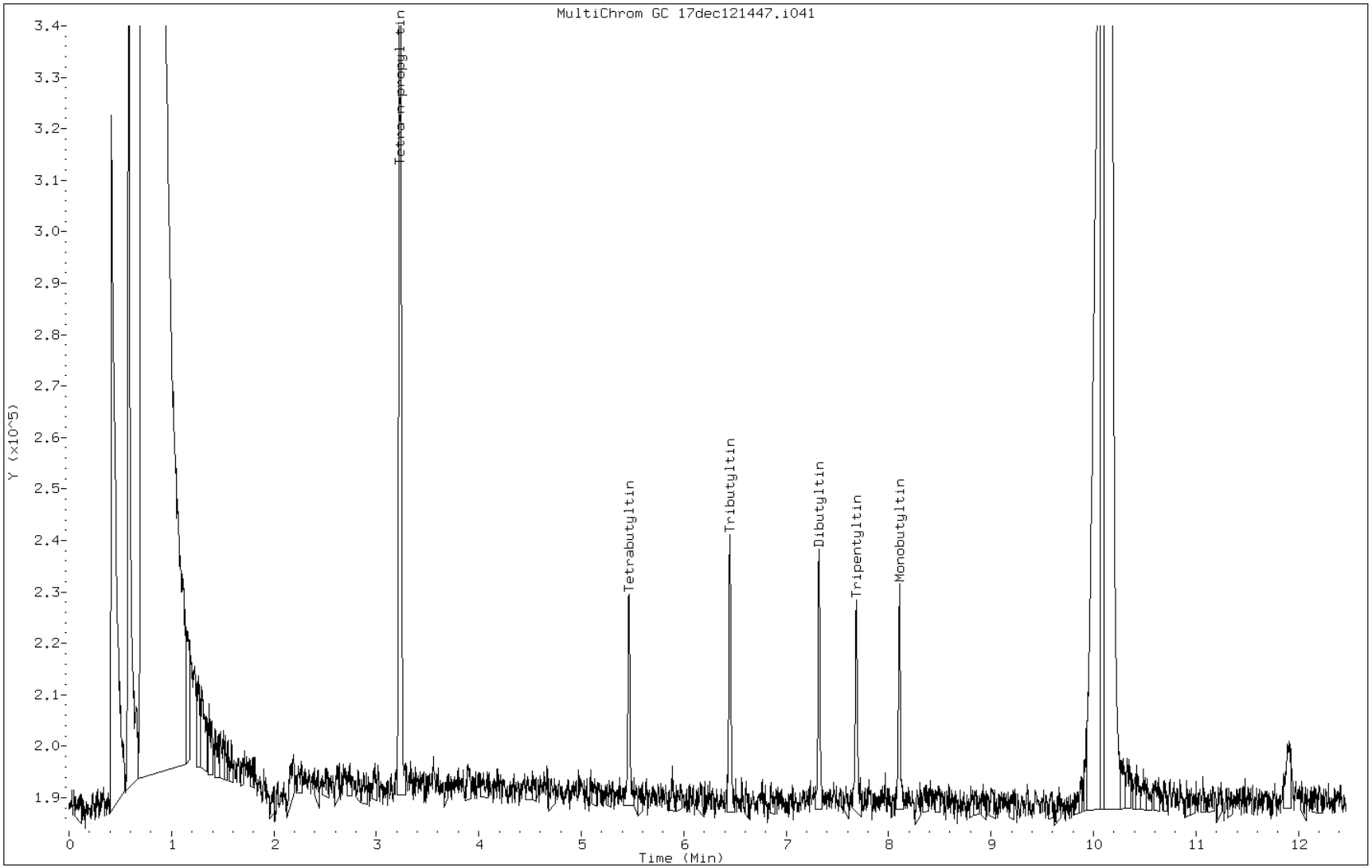
Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Tetra-n-propyl tin				CAS #: 2176-98-9
3.230	3.194 (1.000)	382634	500.000	
2 Tetrabutyltin				CAS #: 1461-25-2
5.466	5.446 (1.693)	63061	100.000	100.5
3 Tributyltin				CAS #: 688-73-3
6.450	6.433 (1.997)	77663	89.0000	92.59
4 Dibutyltin				CAS #: 1002-53-5
7.322	7.304 (2.267)	70499	77.0000	75.78
$ 5 Tripentyltin				CAS #: 3342-67-4
7.683	7.670 (2.379)	68959	90.0000	99.38

RT	EXP RT	(REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
6 Monobutyltin					CAS #: 2406-65-7
8.106	8.086	(2.510)	63469	62.0000	62.05

Data File:	17dec121447-r041.d	Date:	17-DEC-2012 15:46
Client ID:	100 PPB	Instrument:	2860_2.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-5		
Sample Info:	IC-406256,1,100 PPB		
Lab Sample ID:	IC-406256		



TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_2.i/121712_1/17DEC121447.b/17dec121447-r051.d
Lab Smp Id: ICRT-406257 Client Smp ID: 250 PPB
Inj Date : 17-DEC-2012 16:03
Operator : RRM Inst ID: 2860_2.i
Smp Info : ICRT-406257,1,250 PPB
Misc Info :
Comment :
Method : /var/chem/2860_2.i/121712_1/17DEC121447.b/OR560_RTX5.m
Meth Date : 18-Dec-2012 09:48 rrm Quant Type: ISTD
Cal Date : 17-DEC-2012 16:03 Cal File: 17dec121447-r051.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: OR560_STD.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

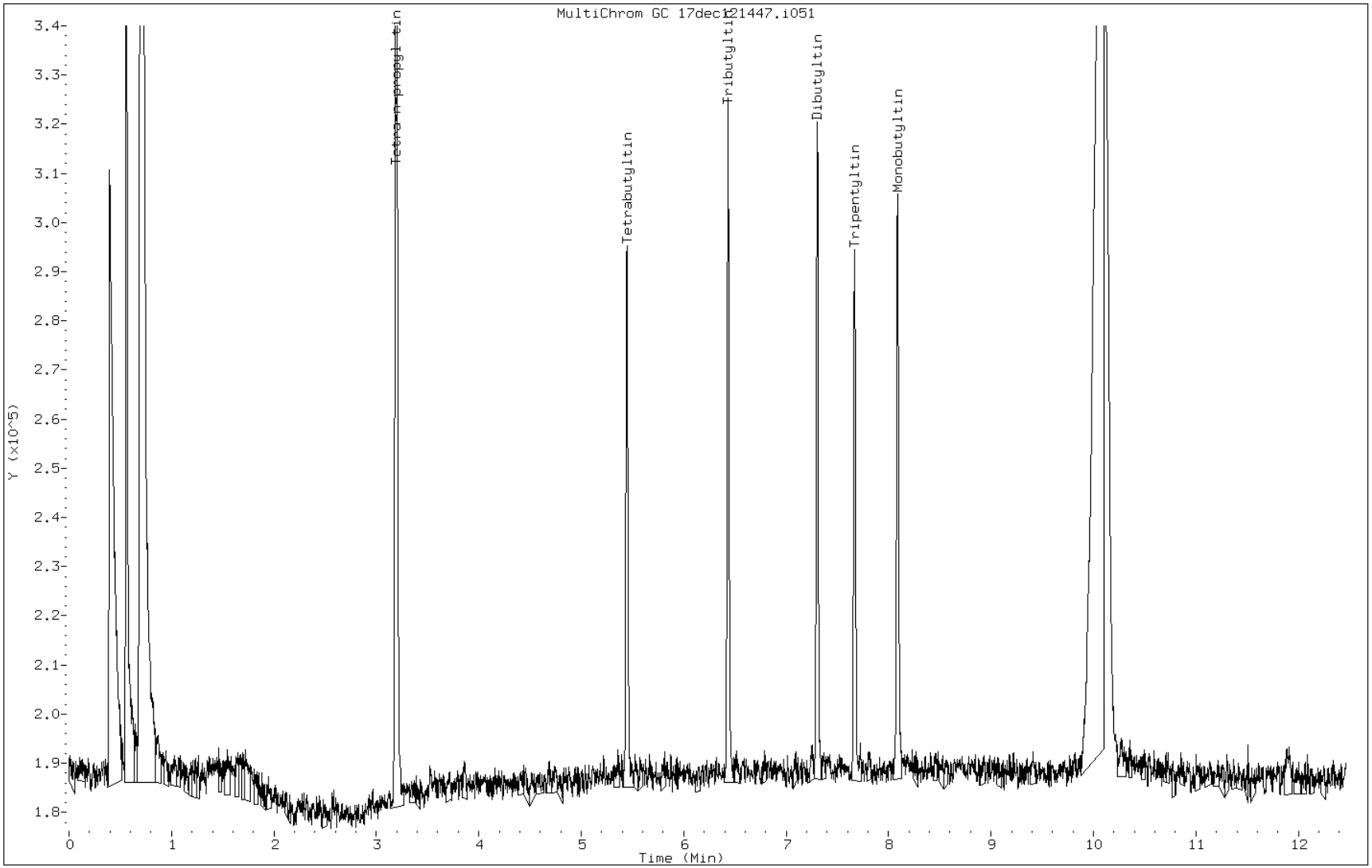
Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	
*	1 Tetra-n-propyl tin					CAS #: 2176-98-9
	3.194	3.194 (1.000)	388113	500.000		
	2 Tetrabutyltin					CAS #: 1461-25-2
	5.446	5.446 (1.705)	158345	250.000	248.9	
	3 Tributyltin					CAS #: 688-73-3
	6.433	6.433 (2.014)	188358	223.000	221.4	
	4 Dibutyltin					CAS #: 1002-53-5
	7.304	7.304 (2.287)	181962	193.000	192.8	
$	5 Tripentyltin					CAS #: 3342-67-4
	7.670	7.670 (2.401)	156252	225.000	222.0	

RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
6 Monobutyltin				CAS #: 2406-65-7
8.086	8.086 (2.532)	167081	155.000	161.0

Data File:	17dec121447-r051.d	Date:	17-DEC-2012 16:03
Client ID:	250 PPB	Instrument:	2860_2.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-5		
Sample Info:	ICRT-406257,1,250 PPB		
Lab Sample ID:	ICRT-406257		



TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_2.i/121712_1/17DEC121447.b/17dec121447-r061.d
Lab Smp Id: IC-406258 Client Smp ID: 500 PPB
Inj Date : 17-DEC-2012 16:20
Operator : RRM Inst ID: 2860_2.i
Smp Info : IC-406258,1,500 PPB
Misc Info :
Comment :
Method : /var/chem/2860_2.i/121712_1/17DEC121447.b/OR560_RTX5.m
Meth Date : 18-Dec-2012 09:48 rrm Quant Type: ISTD
Cal Date : 17-DEC-2012 16:20 Cal File: 17dec121447-r061.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: OR560_STD.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

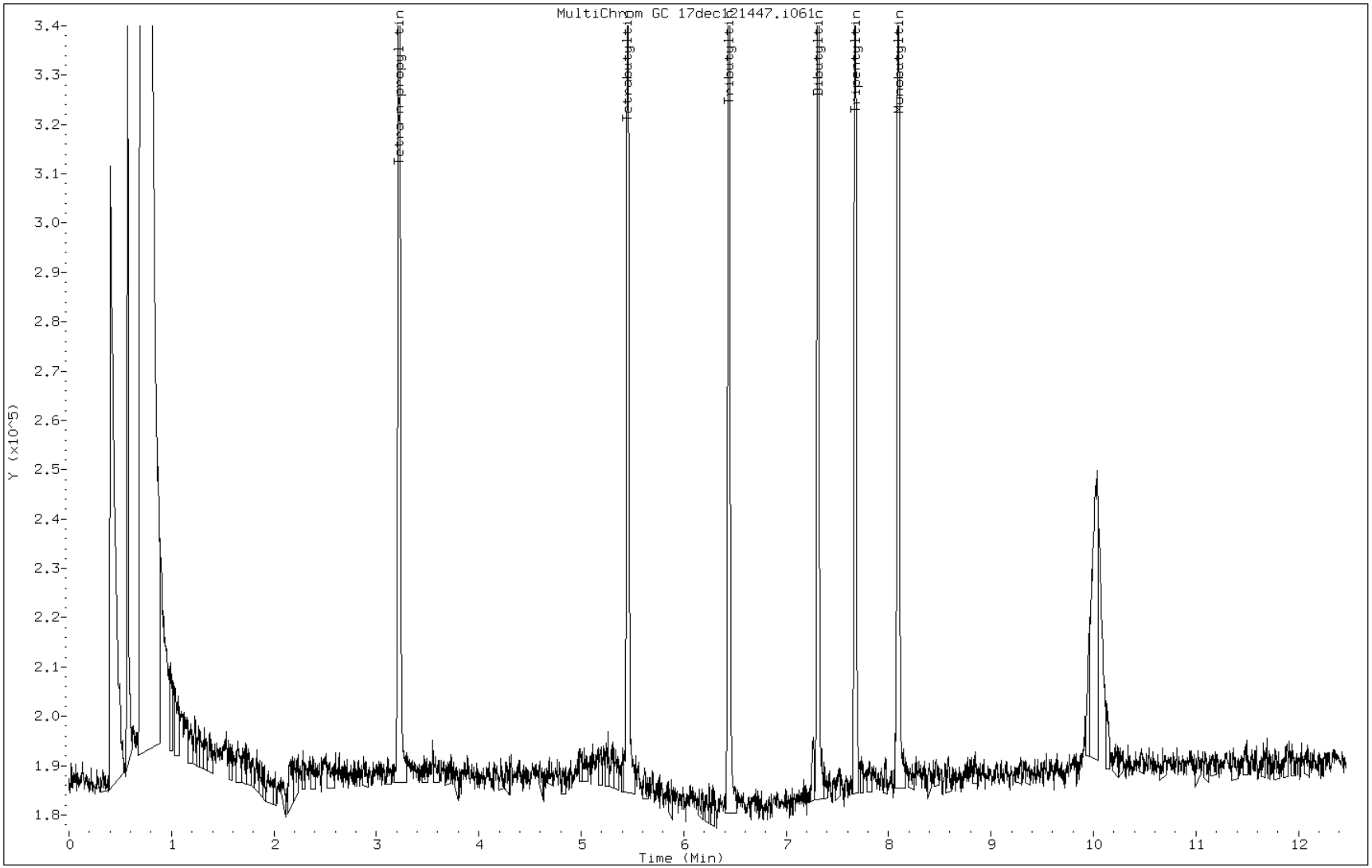
Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	
*	1 Tetra-n-propyl tin					CAS #: 2176-98-9
	3.223	3.194 (1.000)	423503	500.000		
	2 Tetrabutyltin					CAS #: 1461-25-2
	5.453	5.446 (1.692)	335099	500.000	482.6	
	3 Tributyltin					CAS #: 688-73-3
	6.439	6.433 (1.998)	385209	445.000	414.9	
	4 Dibutyltin					CAS #: 1002-53-5
	7.311	7.304 (2.268)	374718	385.000	363.9	
$	5 Tripentyltin					CAS #: 3342-67-4
	7.674	7.670 (2.381)	296780	450.000	386.4	

RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
6 Monobutyltin				CAS #: 2406-65-7
8.095	8.086 (2.512)	351266	310.000	310.3

Data File:	17dec121447-r061.d	Date:	17-DEC-2012 16:20
Client ID:	500 PPB	Instrument:	2860_2.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-5		
Sample Info:	IC-406258,1,500 PPB		
Lab Sample ID:	IC-406258		



TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_2.i/121712_1/17DEC121447.b/17dec121447-r071.d
Lab Smp Id: IC-406259 Client Smp ID: 1000 PPB
Inj Date : 17-DEC-2012 16:37
Operator : RRM Inst ID: 2860_2.i
Smp Info : IC-406259,1,1000 PPB
Misc Info :
Comment :
Method : /var/chem/2860_2.i/121712_1/17DEC121447.b/OR560_RTX5.m
Meth Date : 18-Dec-2012 09:48 rrm Quant Type: ISTD
Cal Date : 17-DEC-2012 16:37 Cal File: 17dec121447-r071.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: OR560_STD.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

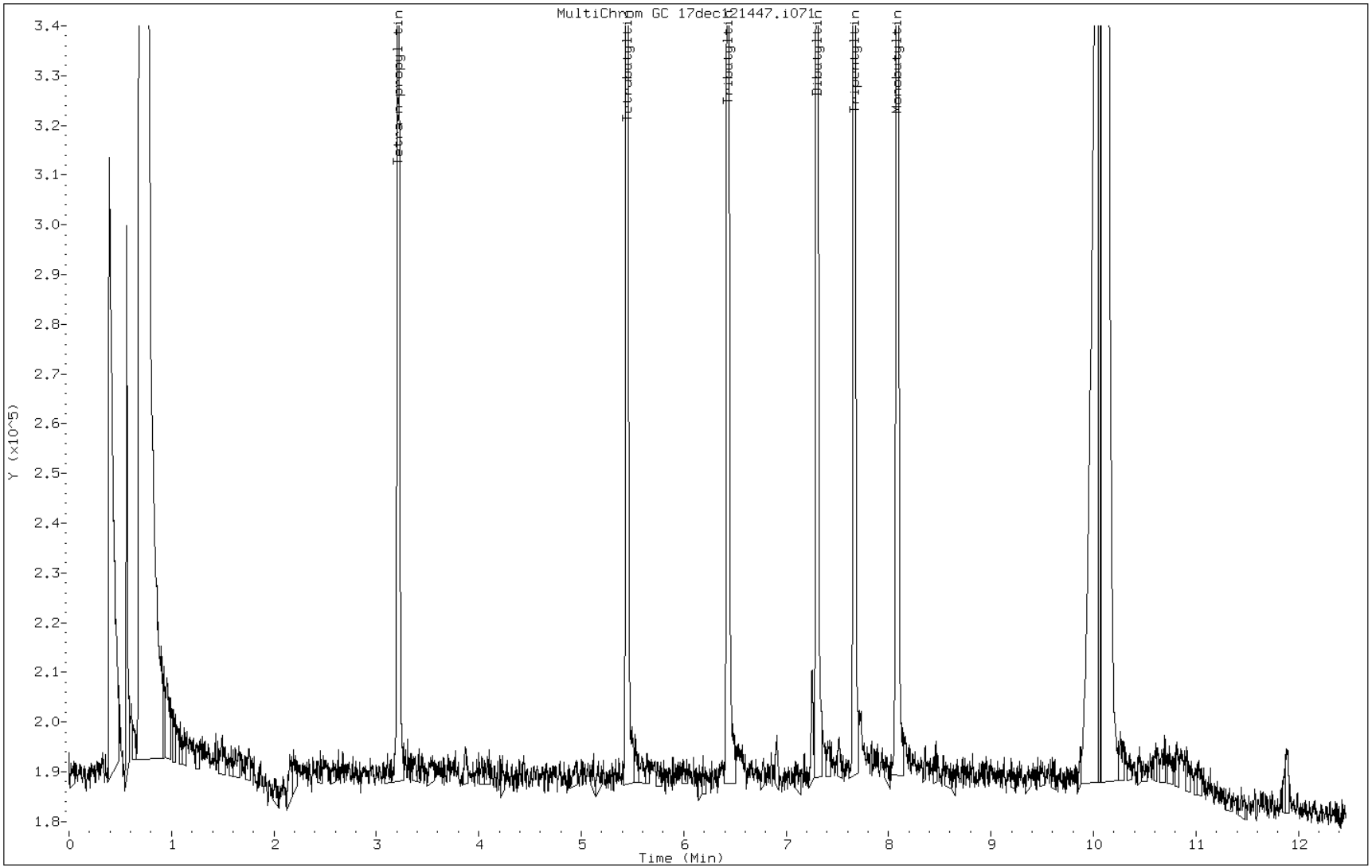
Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	
*	1 Tetra-n-propyl tin					CAS #: 2176-98-9
	3.214	3.194 (1.000)	430635	500.000		
	2 Tetrabutyltin					CAS #: 1461-25-2
	5.446	5.446 (1.694)	634073	1000.00	898.1	
	3 Tributyltin					CAS #: 688-73-3
	6.431	6.433 (2.001)	775573	890.000	821.6	
	4 Dibutyltin					CAS #: 1002-53-5
	7.302	7.304 (2.272)	762822	770.000	728.6	
$	5 Tripentyltin					CAS #: 3342-67-4
	7.665	7.670 (2.385)	613307	900.000	785.4	

RT	EXP RT	(REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
6 Monobutyltin					CAS #: 2406-65-7
8.084	8.086	(2.515)	682559	620.000	592.9

Data File:	17dec121447-r071.d	Date:	17-DEC-2012 16:37
Client ID:	1000 PPB	Instrument:	2860_2.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-5		
Sample Info:	IC-406259,1,1000 PPB		
Lab Sample ID:	IC-406259		



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Lab Sample ID: ICV 200-49433/7 Calibration Date: 12/11/2012 19:59

Instrument ID: 2860.i Calib Start Date: 12/11/2012 18:18

GC Column: RTX-35 ID: 0.32(mm) Calib End Date: 12/11/2012 19:26

Lab File ID: 11dec121742-r091.d Conc. Units: ug/L

EPA Sample No.: ICV

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrabutyltin	Ave	0.7743	0.8839		285	250	14.2	25.0
Tributyltin	Ave	0.9775	0.8453		192	223	-13.5	25.0
Dibutyltin	Ave	1.075	1.245		223	193	15.9	25.0
Monobutyltin	Ave	1.071	1.196		173	155	11.7	25.0
Tripentyltin	Ave	0.7470	0.7481		230	230	0.1	25.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Lab Sample ID: ICV 200-49433/7 Calibration Date: 12/11/2012 19:59

Instrument ID: 2860.i Calib Start Date: 12/11/2012 18:18

GC Column: RTX-35 ID: 0.32(mm) Calib End Date: 12/11/2012 19:26

Lab File ID: 11dec121742-r091.d

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrabutyltin	4.46	4.43	4.53
Tributyltin	5.49	5.46	5.56
Dibutyltin	6.38	6.35	6.45
Monobutyltin	7.18	7.15	7.25
Tripentyltin	6.74	6.71	6.81

TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_1.i/121112_1/11DEC121742.b/11dec121742-r091.d
Lab Smp Id: ICV-406260 Client Smp ID: ICV
Inj Date : 11-DEC-2012 19:59
Operator : RRM Inst ID: 2860_1.i
Smp Info : ICV-406260,1,ICV
Misc Info :
Comment :
Method : /var/chem/2860_1.i/121112_1/11DEC121742.b/OR560_RTX35.m
Meth Date : 12-Dec-2012 09:25 rrm Quant Type: ISTD
Cal Date : 11-DEC-2012 19:26 Cal File: 11dec121742-r071.d
Als bottle: 1 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ICV.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

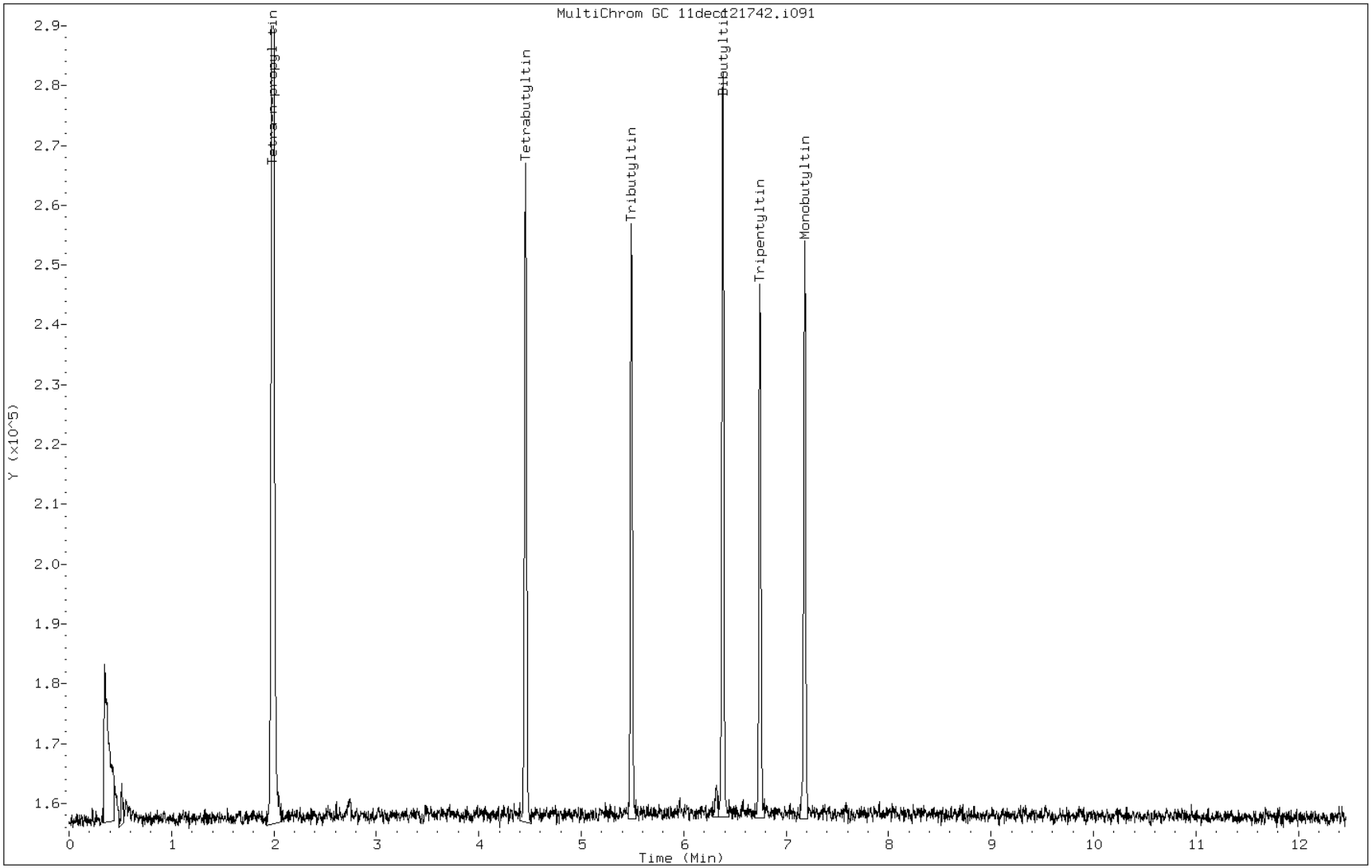
Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	
*	1 Tetra-n-propyl tin					CAS #: 2176-98-9
	1.988	2.015 (1.000)	367479	500.000		
	2 Tetrabutyltin					CAS #: 1461-25-2
	4.455	4.475 (2.241)	162409	285.391	285.4	
	3 Tributyltin					CAS #: 688-73-3
	5.488	5.508 (2.760)	138228	192.413	192.4	
	4 Dibutyltin					CAS #: 1002-53-5
	6.382	6.402 (3.210)	176191	223.076	223.1	
$	5 Tripentyltin					CAS #: 3342-67-4
	6.743	6.761 (3.391)	126458	230.340	230.3	

RT	EXP RT	(REL RT)	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)
6 Monobutyltin					CAS #: 2406-65-7
7.182	7.200	(3.612)	136280	173.208	173.2

Data File:	11dec121742-r091.d	Date:	11-DEC-2012 19:59
Client ID:	ICV	Instrument:	2860_1.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-35		
Sample Info:	ICV-406260,1,ICV		
Lab Sample ID:	ICV-406260		



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Lab Sample ID: ICV 200-49433/7 Calibration Date: 12/11/2012 19:59

Instrument ID: 2860.i Calib Start Date: 12/11/2012 18:18

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 12/11/2012 19:26

Lab File ID: 11dec121742-r091.d Conc. Units: ug/L

EPA Sample No.: ICV

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrabutyltin	Ave	0.8198	0.9059		276	250	10.5	25.0
Tributyltin	Ave	1.082	0.8900		183	223	-17.8	25.0
Dibutyltin	Ave	1.234	1.320		206	193	7.0	25.0
Monobutyltin	Ave	1.295	1.565		187	155	20.8	25.0
Tripentyltin	Ave	0.8820	0.7693		201	230	-12.8	25.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Lab Sample ID: ICV 200-49433/7 Calibration Date: 12/11/2012 19:59

Instrument ID: 2860.i Calib Start Date: 12/11/2012 18:18

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 12/11/2012 19:26

Lab File ID: 11dec121742-r091.d

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrabutyltin	5.48	5.47	5.57
Tributyltin	6.46	6.44	6.54
Dibutyltin	7.33	7.32	7.42
Monobutyltin	8.12	8.10	8.20
Tripentyltin	7.70	7.68	7.78

TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_2.i/121112_1/11DEC121742.b/11dec121742-r091.d
Lab Smp Id: ICV-406260 Client Smp ID: ICV
Inj Date : 11-DEC-2012 19:59
Operator : RRM Inst ID: 2860_2.i
Smp Info : ICV-406260,1,ICV
Misc Info :
Comment :
Method : /var/chem/2860_2.i/121112_1/11DEC121742.b/OR560_RTX5.m
Meth Date : 12-Dec-2012 10:03 rrm Quant Type: ISTD
Cal Date : 11-DEC-2012 19:26 Cal File: 11dec121742-r071.d
Als bottle: 1 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ICV.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

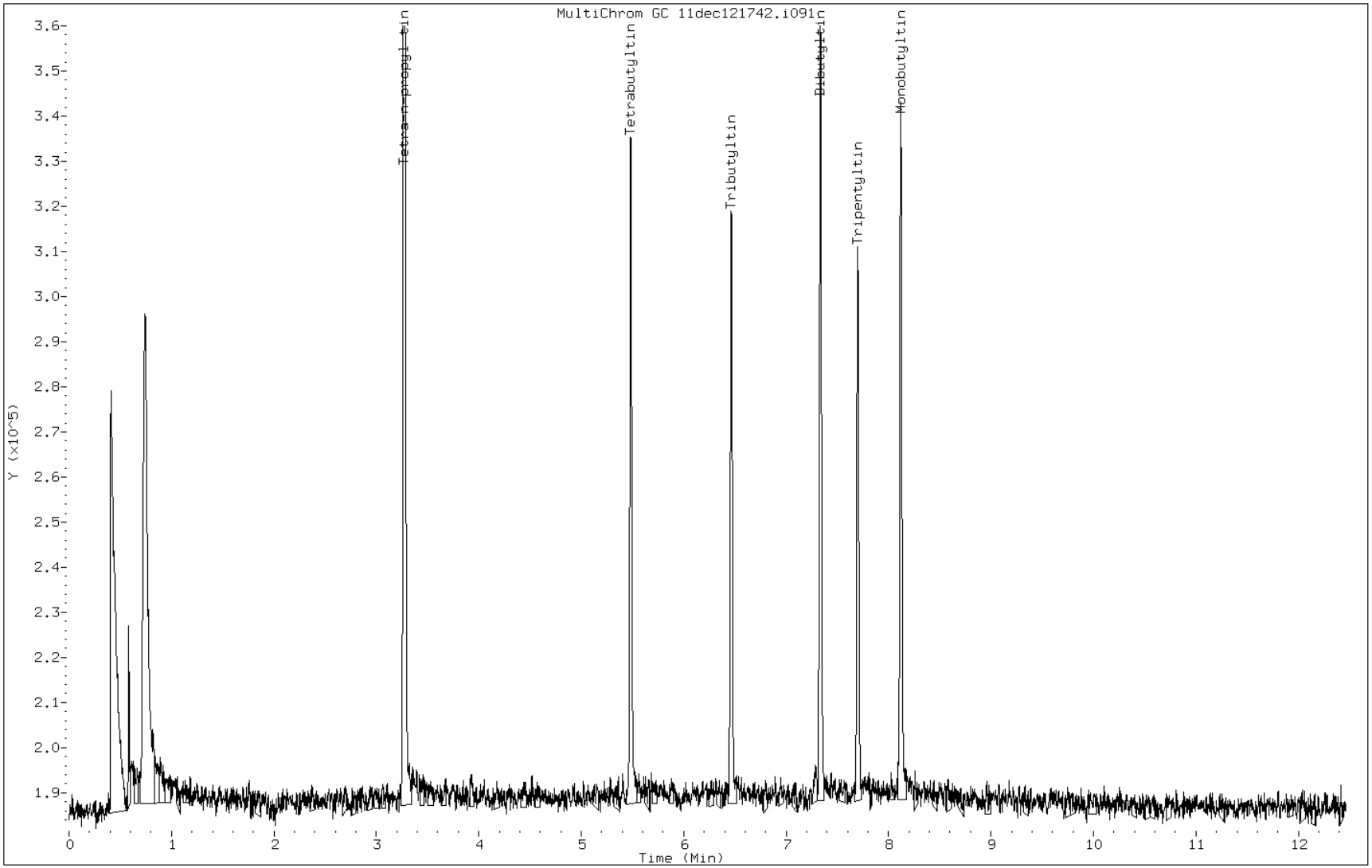
Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	
*	1 Tetra-n-propyl tin					CAS #: 2176-98-9
	3.272	3.305 (1.000)	457897	500.000		
	2 Tetrabutyltin					CAS #: 1461-25-2
	5.482	5.515 (1.675)	207397	276.256	276.3	
	3 Tributyltin					CAS #: 688-73-3
	6.464	6.495 (1.976)	181350	182.967	183.0	
	4 Dibutyltin					CAS #: 1002-53-5
	7.335	7.366 (2.242)	232621	205.891	205.9	
$	5 Tripentyltin					CAS #: 3342-67-4
	7.701	7.730 (2.354)	162046	200.626	200.6	

RT	EXP RT	(REL RT)	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)
6 Monobutyltin					CAS #: 2406-65-7
8.120	8.148	(2.482)	222173	187.278	187.3

Data File:	11dec121742-r091.d	Date:	11-DEC-2012 19:59
Client ID:	ICV	Instrument:	2860_2.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-5		
Sample Info:	ICV-406260,1,ICV		
Lab Sample ID:	ICV-406260		



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Lab Sample ID: CCV 200-49448/8 Calibration Date: 12/11/2012 22:14

Instrument ID: 2860.i Calib Start Date: 12/11/2012 18:18

GC Column: RTX-35 ID: 0.32(mm) Calib End Date: 12/11/2012 19:26

Lab File ID: 11dec121807-r081.d Conc. Units: ug/L

EPA Sample No.: 250 PPB

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrabutyltin	Ave	0.7743	0.7921		256	250	2.3	25.0
Tributyltin	Ave	0.9775	1.067		243	223	9.2	25.0
Dibutyltin	Ave	1.075	1.200		215	193	11.7	25.0
Monobutyltin	Ave	1.071	1.223		177	155	14.2	25.0
Tripentyltin	Ave	0.7470	0.7990		246	230	7.0	25.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Lab Sample ID: CCV 200-49448/8 Calibration Date: 12/11/2012 22:14

Instrument ID: 2860.i Calib Start Date: 12/11/2012 18:18

GC Column: RTX-35 ID: 0.32(mm) Calib End Date: 12/11/2012 19:26

Lab File ID: 11dec121807-r081.d

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrabutyltin	4.45	4.43	4.53
Tributyltin	5.48	5.46	5.56
Dibutyltin	6.38	6.35	6.45
Monobutyltin	7.18	7.15	7.25
Tripentyltin	6.74	6.71	6.81

TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_1.i/121112_1/11DEC121807.b/11dec121807-r081.d
Lab Smp Id: CCV-406257 Client Smp ID: 250 PPB
Inj Date : 11-DEC-2012 22:14
Operator : RRM Inst ID: 2860_1.i
Smp Info : CCV-406257,1,250 PPB
Misc Info :
Comment :
Method : /var/chem/2860_1.i/121112_1/11DEC121807.b/OR560_RTX35.m
Meth Date : 12-Dec-2012 09:27 rrm Quant Type: ISTD
Cal Date : 11-DEC-2012 19:26 Cal File: 11dec121742-r071.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: OR560_STD.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

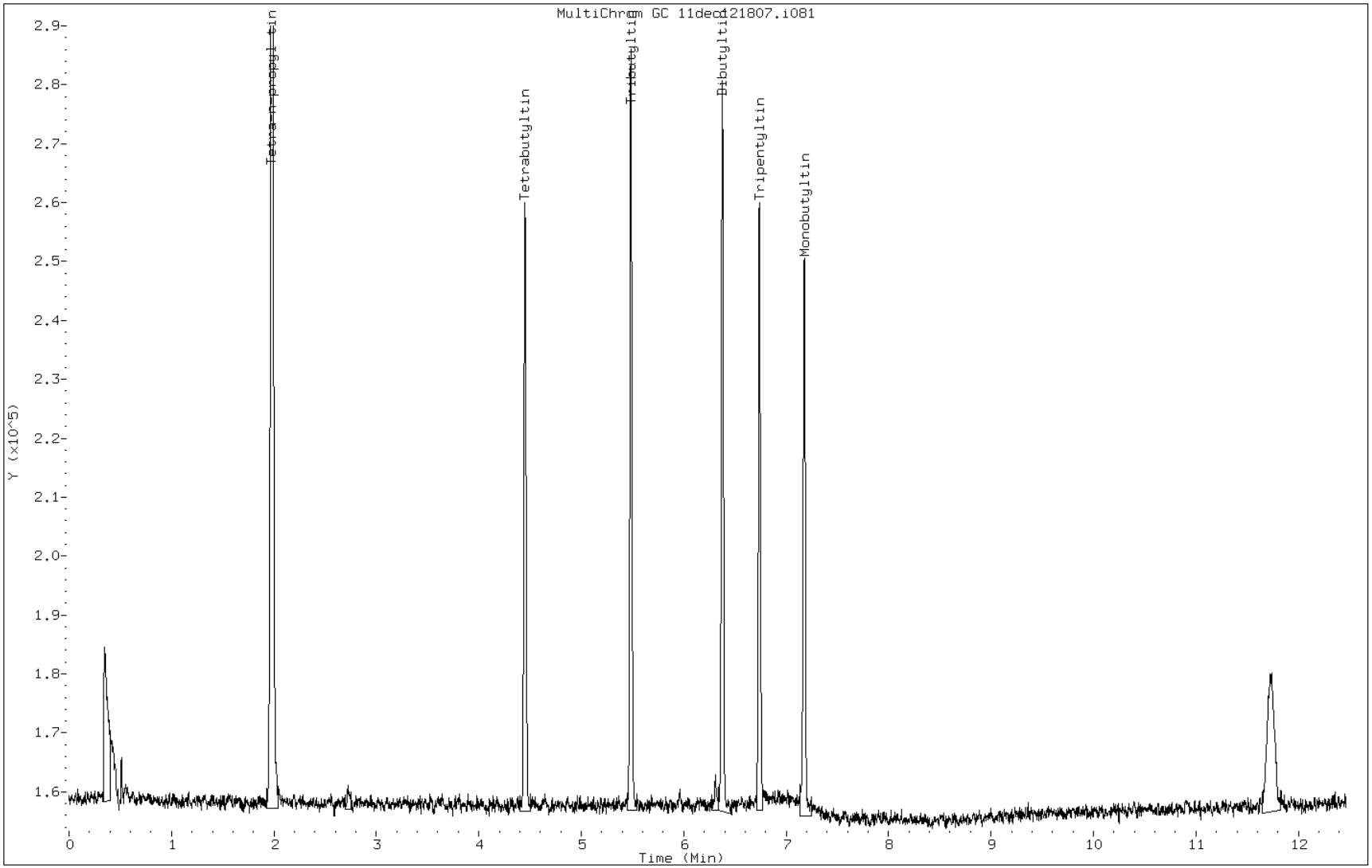
Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	
* 1 Tetra-n-propyl tin					CAS #: 2176-98-9
1.979	2.015 (1.000)	379793	500.000		
2 Tetrabutyltin					CAS #: 1461-25-2
4.451	4.475 (2.249)	150423	250.000	255.8	
3 Tributyltin					CAS #: 688-73-3
5.484	5.508 (2.770)	180386	223.000	243.0	
4 Dibutyltin					CAS #: 1002-53-5
6.377	6.402 (3.222)	175462	193.000	214.9	
$ 5 Tripentyltin					CAS #: 3342-67-4
6.739	6.761 (3.404)	139588	225.000	246.0	

RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
6 Monobutyltin				CAS #: 2406-65-7
7.178	7.200 (3.626)	143963	155.000	177.0

Data File:	11dec121807-r081.d	Date:	11-DEC-2012 22:14
Client ID:	250 PPB	Instrument:	2860_1.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-35		
Sample Info:	CCV-406257,1,250 PPB		
Lab Sample ID:	CCV-406257		



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Lab Sample ID: CCV 200-49448/8 Calibration Date: 12/11/2012 22:14

Instrument ID: 2860.i Calib Start Date: 12/11/2012 18:18

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 12/11/2012 19:26

Lab File ID: 11dec121807-r081.d Conc. Units: ug/L

EPA Sample No.: 250 PPB

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrabutyltin	Ave	0.8198	0.8017		244	250	-2.2	25.0
Tributyltin	Ave	1.082	1.065		219	223	-1.6	25.0
Dibutyltin	Ave	1.234	1.214		189	193	-1.6	25.0
Monobutyltin	Ave	1.295	1.398		167	155	7.9	25.0
Tripentyltin	Ave	0.8820	0.9025		235	230	2.3	25.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Lab Sample ID: CCV 200-49448/8 Calibration Date: 12/11/2012 22:14

Instrument ID: 2860.i Calib Start Date: 12/11/2012 18:18

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 12/11/2012 19:26

Lab File ID: 11dec121807-r081.d

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrabutyltin	5.49	5.47	5.57
Tributyltin	6.47	6.44	6.54
Dibutyltin	7.34	7.32	7.42
Monobutyltin	8.12	8.10	8.20
Tripentyltin	7.70	7.68	7.78

TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_2.i/121112_1/11DEC121807.b/11dec121807-r081.d
Lab Smp Id: CCV-406257 Client Smp ID: 250 PPB
Inj Date : 11-DEC-2012 22:14
Operator : RRM Inst ID: 2860_2.i
Smp Info : CCV-406257,1,250 PPB
Misc Info :
Comment :
Method : /var/chem/2860_2.i/121112_1/11DEC121807.b/OR560_RTX5.m
Meth Date : 12-Dec-2012 11:44 rrm Quant Type: ISTD
Cal Date : 11-DEC-2012 19:26 Cal File: 11dec121742-r071.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: OR560_STD.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

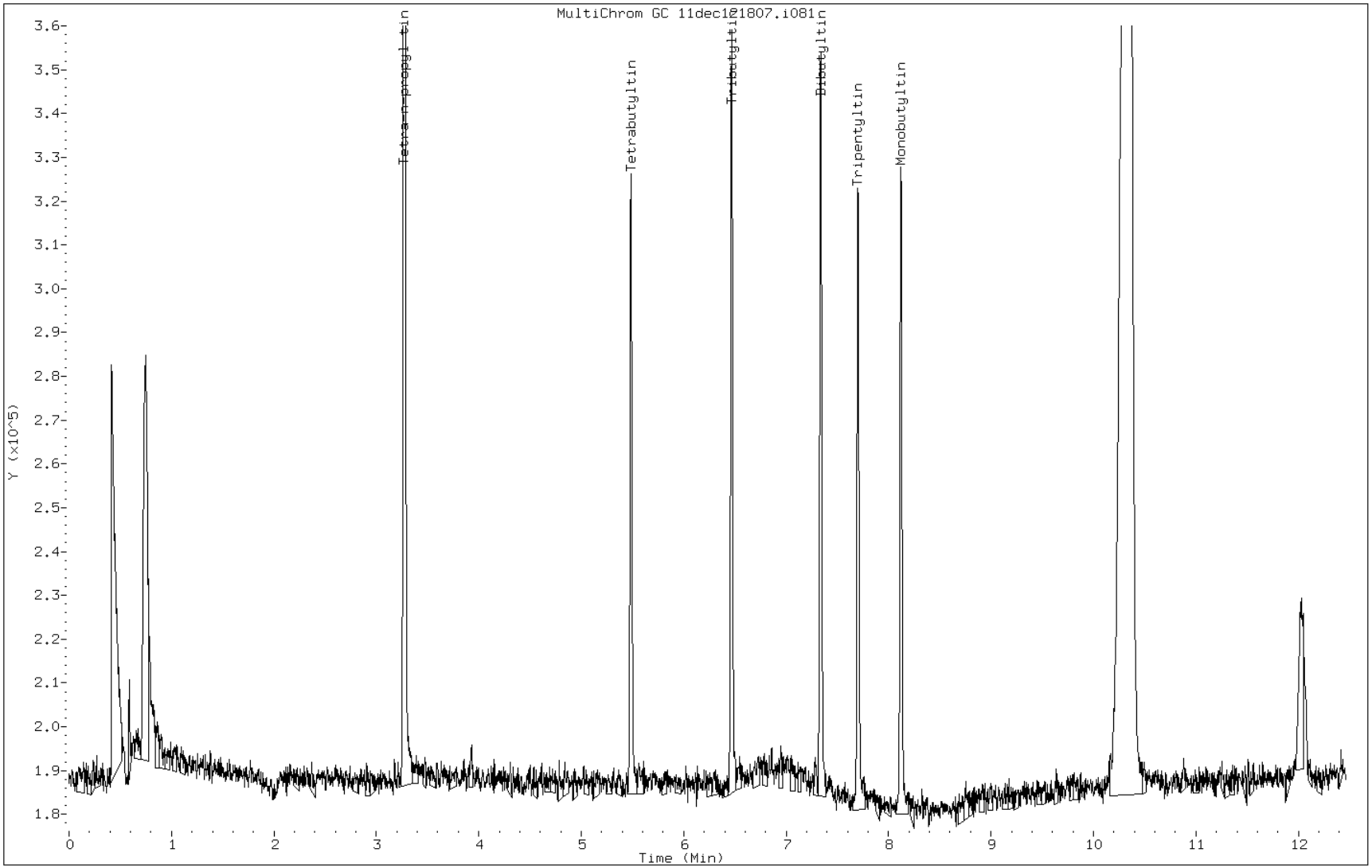
Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Tetra-n-propyl tin				CAS #: 2176-98-9
3.272	3.305 (1.000)	493290	500.000	
2 Tetrabutyltin				CAS #: 1461-25-2
5.486	5.515 (1.677)	197741	250.000	244.5
3 Tributyltin				CAS #: 688-73-3
6.468	6.495 (1.977)	233799	223.000	219.0
4 Dibutyltin				CAS #: 1002-53-5
7.337	7.366 (2.243)	230603	193.000	189.5
$ 5 Tripentyltin				CAS #: 3342-67-4
7.701	7.730 (2.354)	204794	225.000	235.4

RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
6 Monobutyltin				CAS #: 2406-65-7
8.122	8.148 (2.482)	213713	155.000	167.2

Data File:	11dec121807-r081.d	Date:	11-DEC-2012 22:14
Client ID:	250 PPB	Instrument:	2860_2.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-5		
Sample Info:	CCV-406257,1,250 PPB		
Lab Sample ID:	CCV-406257		



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Lab Sample ID: CCV 200-49448/19 Calibration Date: 12/12/2012 01:20

Instrument ID: 2860.i Calib Start Date: 12/11/2012 18:18

GC Column: RTX-35 ID: 0.32(mm) Calib End Date: 12/11/2012 19:26

Lab File ID: 11dec121807-r191.d Conc. Units: ug/L

EPA Sample No.: 250 PPB

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrabutyltin	Ave	0.7743	0.7888		255	250	1.9	25.0
Tributyltin	Ave	0.9775	1.084		247	223	10.9	25.0
Dibutyltin	Ave	1.075	1.184		212	193	10.1	25.0
Monobutyltin	Ave	1.071	1.161		168	155	8.4	25.0
Tripentyltin	Ave	0.7470	0.8409		259	230	12.6	25.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Lab Sample ID: CCV 200-49448/19 Calibration Date: 12/12/2012 01:20

Instrument ID: 2860.i Calib Start Date: 12/11/2012 18:18

GC Column: RTX-35 ID: 0.32(mm) Calib End Date: 12/11/2012 19:26

Lab File ID: 11dec121807-r191.d

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrabutyltin	4.46	4.43	4.53
Tributyltin	5.49	5.46	5.56
Dibutyltin	6.38	6.35	6.45
Monobutyltin	7.18	7.15	7.25
Tripentyltin	6.75	6.71	6.81

TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_1.i/121112_1/11DEC121807.b/11dec121807-r191.d
Lab Smp Id: CCV-406257 Client Smp ID: 250 PPB
Inj Date : 12-DEC-2012 01:20
Operator : RRM Inst ID: 2860_1.i
Smp Info : CCV-406257,1,250 PPB
Misc Info :
Comment :
Method : /var/chem/2860_1.i/121112_1/11DEC121807.b/OR560_RTX35.m
Meth Date : 12-Dec-2012 09:27 rrm Quant Type: ISTD
Cal Date : 11-DEC-2012 19:26 Cal File: 11dec121742-r071.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: OR560_STD.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

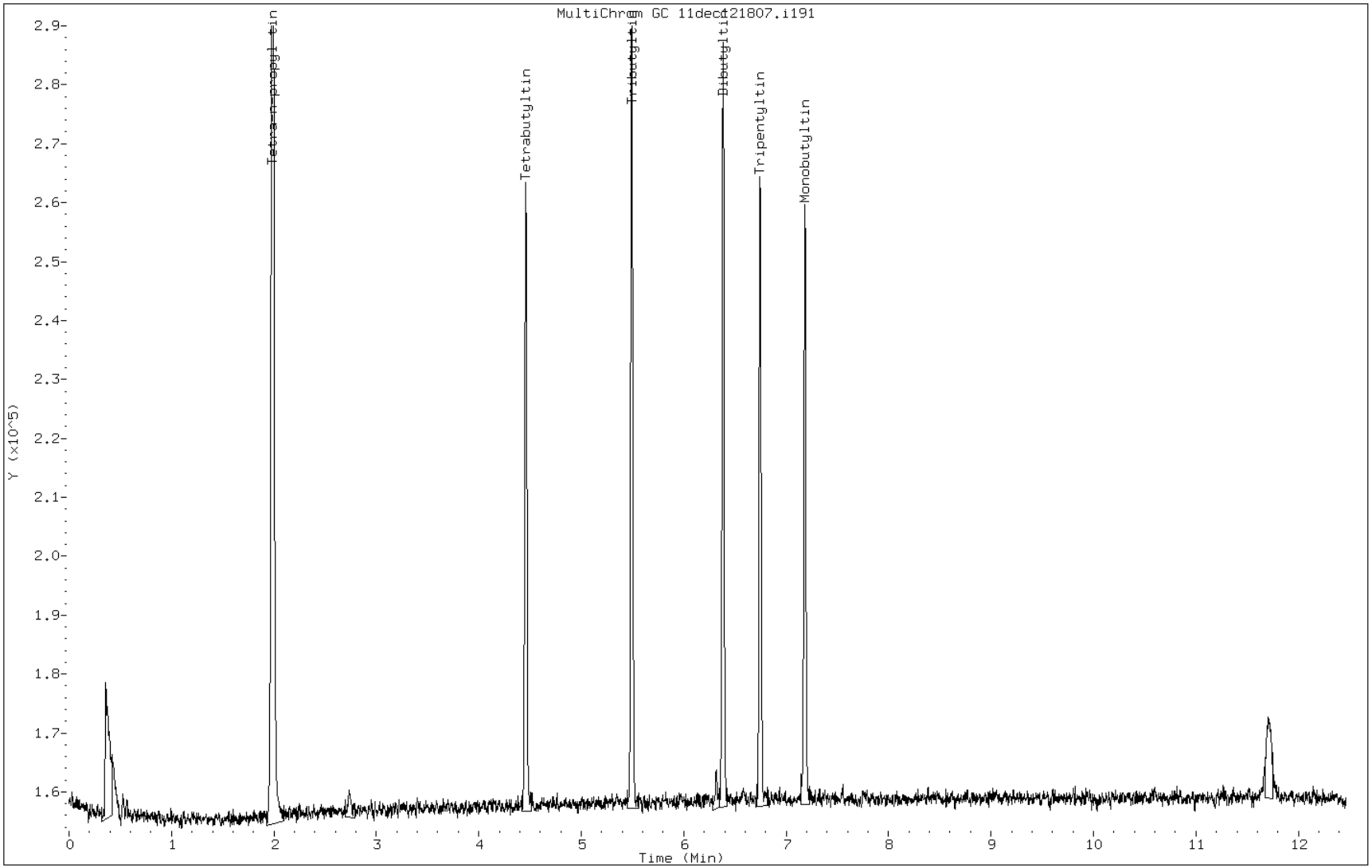
Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Tetra-n-propyl tin				CAS #: 2176-98-9
1.988	2.015 (1.000)	392873	500.000	
2 Tetrabutyltin				CAS #: 1461-25-2
4.458	4.475 (2.242)	154955	250.000	254.7
3 Tributyltin				CAS #: 688-73-3
5.493	5.508 (2.763)	189464	223.000	246.7
4 Dibutyltin				CAS #: 1002-53-5
6.384	6.402 (3.211)	179021	193.000	212.0
$ 5 Tripentyltin				CAS #: 3342-67-4
6.745	6.761 (3.392)	151970	225.000	258.9

RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
6 Monobutyltin				CAS #: 2406-65-7
7.184	7.200 (3.613)	141393	155.000	168.1

Data File:	11dec121807-r191.d	Date:	12-DEC-2012 01:20
Client ID:	250 PPB	Instrument:	2860_1.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-35		
Sample Info:	CCV-406257,1,250 PPB		
Lab Sample ID:	CCV-406257		



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Lab Sample ID: CCV 200-49448/19 Calibration Date: 12/12/2012 01:20

Instrument ID: 2860.i Calib Start Date: 12/11/2012 18:18

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 12/11/2012 19:26

Lab File ID: 11dec121807-r191.d Conc. Units: ug/L

EPA Sample No.: 250 PPB

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrabutyltin	Ave	0.8198	0.8229		251	250	0.4	25.0
Tributyltin	Ave	1.082	1.033		212	223	-4.6	25.0
Dibutyltin	Ave	1.234	1.220		190	193	-1.2	25.0
Monobutyltin	Ave	1.295	1.344		161	155	3.7	25.0
Tripentyltin	Ave	0.8820	0.8316		217	230	-5.7	25.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Lab Sample ID: CCV 200-49448/19 Calibration Date: 12/12/2012 01:20

Instrument ID: 2860.i Calib Start Date: 12/11/2012 18:18

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 12/11/2012 19:26

Lab File ID: 11dec121807-r191.d

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrabutyltin	5.49	5.47	5.57
Tributyltin	6.47	6.44	6.54
Dibutyltin	7.35	7.32	7.42
Monobutyltin	8.13	8.10	8.20
Tripentyltin	7.71	7.68	7.78

TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_2.i/121112_1/11DEC121807.b/11dec121807-r191.d
Lab Smp Id: CCV-406257 Client Smp ID: 250 PPB
Inj Date : 12-DEC-2012 01:20
Operator : RRM Inst ID: 2860_2.i
Smp Info : CCV-406257,1,250 PPB
Misc Info :
Comment :
Method : /var/chem/2860_2.i/121112_1/11DEC121807.b/OR560_RTX5.m
Meth Date : 12-Dec-2012 11:45 rrm Quant Type: ISTD
Cal Date : 11-DEC-2012 19:26 Cal File: 11dec121742-r071.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: OR560_STD.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

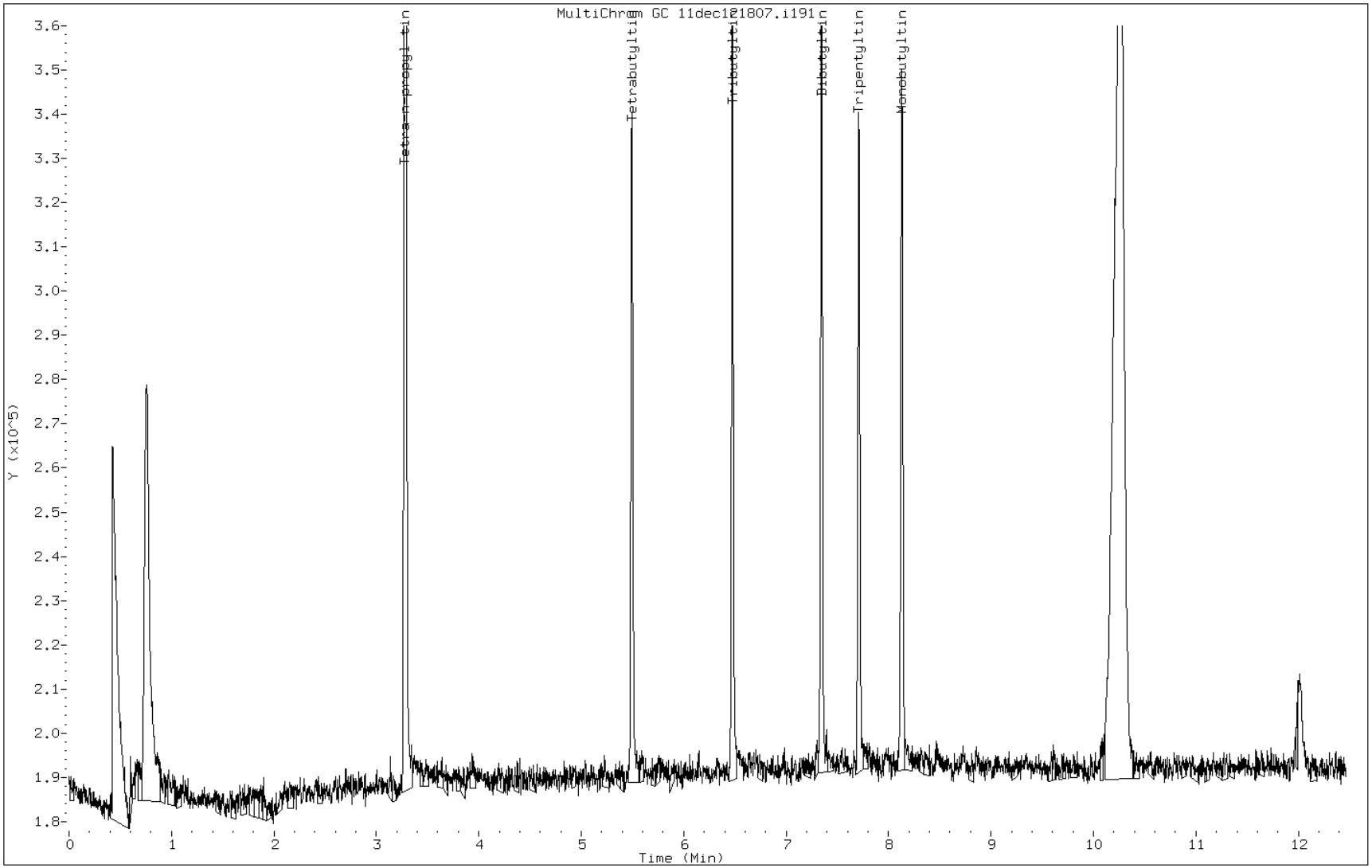
Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Tetra-n-propyl tin				CAS #: 2176-98-9
3.281	3.305 (1.000)	519628	500.000	
2 Tetrabutyltin				CAS #: 1461-25-2
5.493	5.515 (1.674)	213812	250.000	251.0
3 Tributyltin				CAS #: 688-73-3
6.475	6.495 (1.974)	238836	223.000	212.3
4 Dibutyltin				CAS #: 1002-53-5
7.346	7.366 (2.239)	243970	193.000	190.3
$ 5 Tripentyltin				CAS #: 3342-67-4
7.710	7.730 (2.350)	198786	225.000	216.9

RT	EXP RT	(REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
6 Monobutyltin					CAS #: 2406-65-7
8.129	8.148	(2.478)	216469	155.000	160.8

Data File:	11dec121807-r191.d	Date:	12-DEC-2012 01:20
Client ID:	250 PPB	Instrument:	2860_2.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-5		
Sample Info:	CCV-406257,1,250 PPB		
Lab Sample ID:	CCV-406257		



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Lab Sample ID: ICV 200-49749/7 Calibration Date: 12/17/2012 17:11

Instrument ID: 2860.i Calib Start Date: 12/17/2012 15:29

GC Column: RTX-35 ID: 0.32(mm) Calib End Date: 12/17/2012 16:37

Lab File ID: 17dec121447-r091.d Conc. Units: ug/L

EPA Sample No.: ICV

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrabutyltin	Ave	0.6708	0.7706		287	250	14.9	25.0
Tributyltin	Ave	0.7585	0.7654		225	223	0.9	25.0
Dibutyltin	Ave	0.7588	0.9604		244	193	26.6*	25.0
Monobutyltin	Ave	0.7294	0.8910		189	155	22.2	25.0
Tripentyltin	Ave	0.5302	0.5807		252	230	9.5	25.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Lab Sample ID: ICV 200-49749/7 Calibration Date: 12/17/2012 17:11

Instrument ID: 2860.i Calib Start Date: 12/17/2012 15:29

GC Column: RTX-35 ID: 0.32(mm) Calib End Date: 12/17/2012 16:37

Lab File ID: 17dec121447-r091.d

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrabutyltin	4.40	4.35	4.45
Tributyltin	5.45	5.40	5.50
Dibutyltin	6.34	6.29	6.39
Monobutyltin	7.14	7.09	7.19
Tripentyltin	6.70	6.65	6.75

TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_1.i/121712_1/17DEC121447.b/17dec121447-r091.d
Lab Smp Id: ICV-406260 Client Smp ID: ICV
Inj Date : 17-DEC-2012 17:11
Operator : RRM Inst ID: 2860_1.i
Smp Info : ICV-406260,1,ICV
Misc Info :
Comment :
Method : /var/chem/2860_1.i/121712_1/17DEC121447.b/OR560_RTX35.m
Meth Date : 18-Dec-2012 11:13 rrm Quant Type: ISTD
Cal Date : 17-DEC-2012 16:37 Cal File: 17dec121447-r071.d
Als bottle: 1 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ICV.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

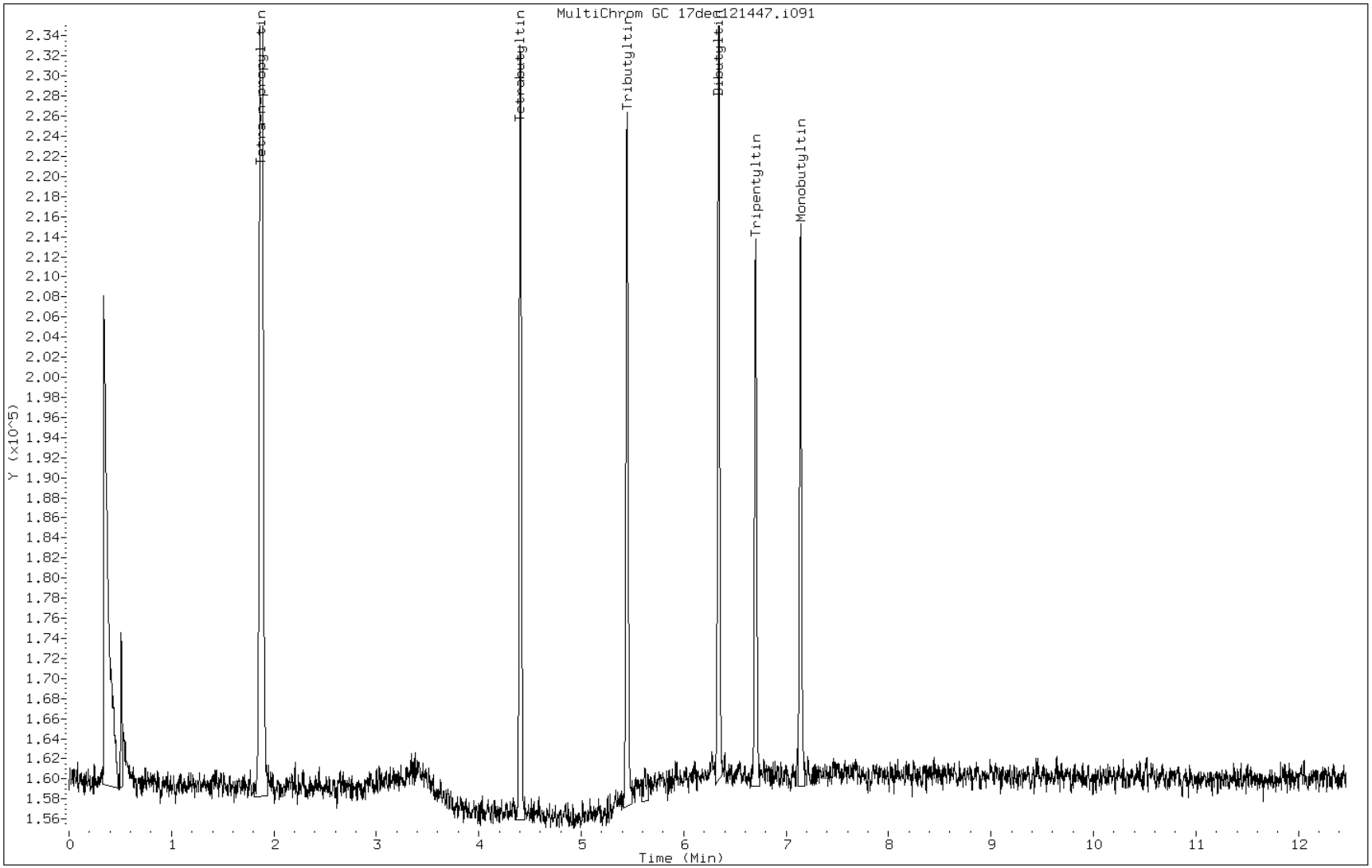
	RT	EXP RT (REL RT)	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	
*	1 Tetra-n-propyl tin				CAS #: 2176-98-9	
	1.875	1.871 (1.000)	298260	500.000		
	2 Tetrabutyltin				CAS #: 1461-25-2	
	4.405	4.402 (2.349)	114923	287.216	287.2	
	3 Tributyltin				CAS #: 688-73-3	
	5.446	5.446 (2.904)	101586	224.529	224.5	
	4 Dibutyltin				CAS #: 1002-53-5	
	6.342	6.340 (3.382)	110280	243.626	243.6	(RM)
$	5 Tripentyltin				CAS #: 3342-67-4	
	6.703	6.701 (3.574)	79675	251.939	251.9	

RT	EXP RT	(REL RT)	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)
6 Monobutyltin					CAS #: 2406-65-7
7.142	7.140	(3.808)	82378	189.343	189.3

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File:	17dec121447-r091.d	Date:	17-DEC-2012 17:11
Client ID:	ICV	Instrument:	2860_1.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-35		
Sample Info:	ICV-406260,1,ICV		
Lab Sample ID:	ICV-406260		



Manual Integration Report

Data File: 17dec121447-r091.d
Lab Sample ID: ICV-406260
Inj. Date and Time: 17-DEC-2012 17:11
Instrument ID: 2860_1.i
Client ID: ICV
Compound: 4 Dibutyltin
CAS #: 1002-53-5
Report Date: 12/19/2012

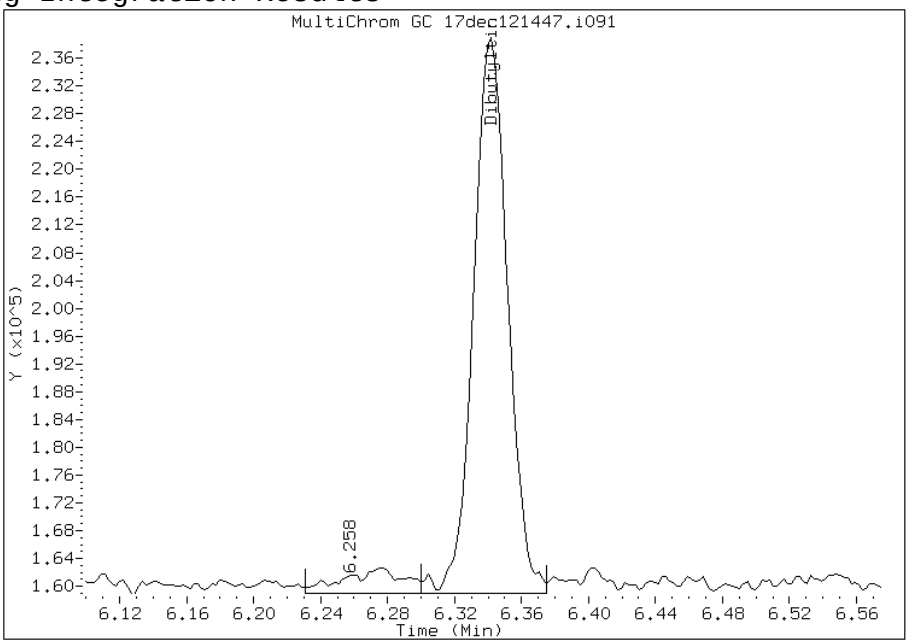
RT: 6.34

Processing Integration Results

Response: 114935

Amount: 253.91

Conc: 253.90



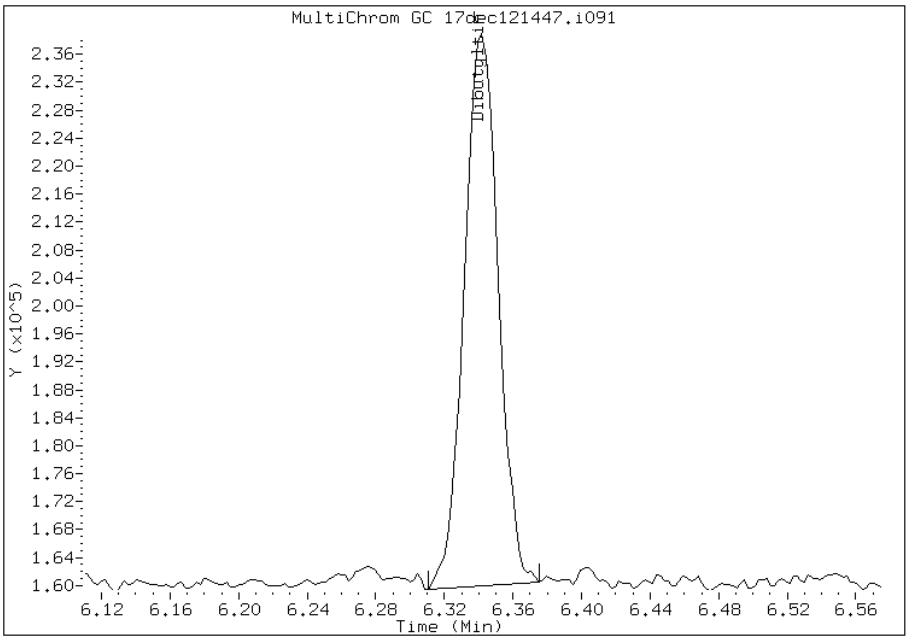
Manual Integration Results

RT: 6.34

Response: 110280

Amount: 243.63

Conc: 243.60



File Uploaded By: sld
Manual Integration Reason: Baseline event

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Lab Sample ID: ICV 200-49749/7 Calibration Date: 12/17/2012 17:11

Instrument ID: 2860.i Calib Start Date: 12/17/2012 15:29

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 12/17/2012 16:37

Lab File ID: 17dec121447-r091.d Conc. Units: ug/L

EPA Sample No.: ICV

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrabutyltin	Ave	0.8197	0.8333		254	250	1.7	25.0
Tributyltin	Ave	1.096	0.8248		167	223	-24.8	25.0
Dibutyltin	Ave	1.216	1.251		198	193	2.9	25.0
Monobutyltin	Ave	1.337	1.551		180	155	16.1	25.0
Tripentyltin	Ave	0.9067	0.8075		205	230	-10.9	25.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Lab Sample ID: ICV 200-49749/7 Calibration Date: 12/17/2012 17:11

Instrument ID: 2860.i Calib Start Date: 12/17/2012 15:29

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 12/17/2012 16:37

Lab File ID: 17dec121447-r091.d

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrabutyltin	5.45	5.40	5.50
Tributyltin	6.44	6.38	6.48
Dibutyltin	7.31	7.25	7.35
Monobutyltin	8.09	8.04	8.14
Tripentyltin	7.67	7.62	7.72

TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_2.i/121712_1/17DEC121447.b/17dec121447-r091.d
Lab Smp Id: ICV-406260 Client Smp ID: ICV
Inj Date : 17-DEC-2012 17:11
Operator : RRM Inst ID: 2860_2.i
Smp Info : ICV-406260,1,ICV
Misc Info :
Comment :
Method : /var/chem/2860_2.i/121712_1/17DEC121447.b/OR560_RTX5.m
Meth Date : 18-Dec-2012 09:48 rrm Quant Type: ISTD
Cal Date : 17-DEC-2012 16:37 Cal File: 17dec121447-r071.d
Als bottle: 1 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ICV.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

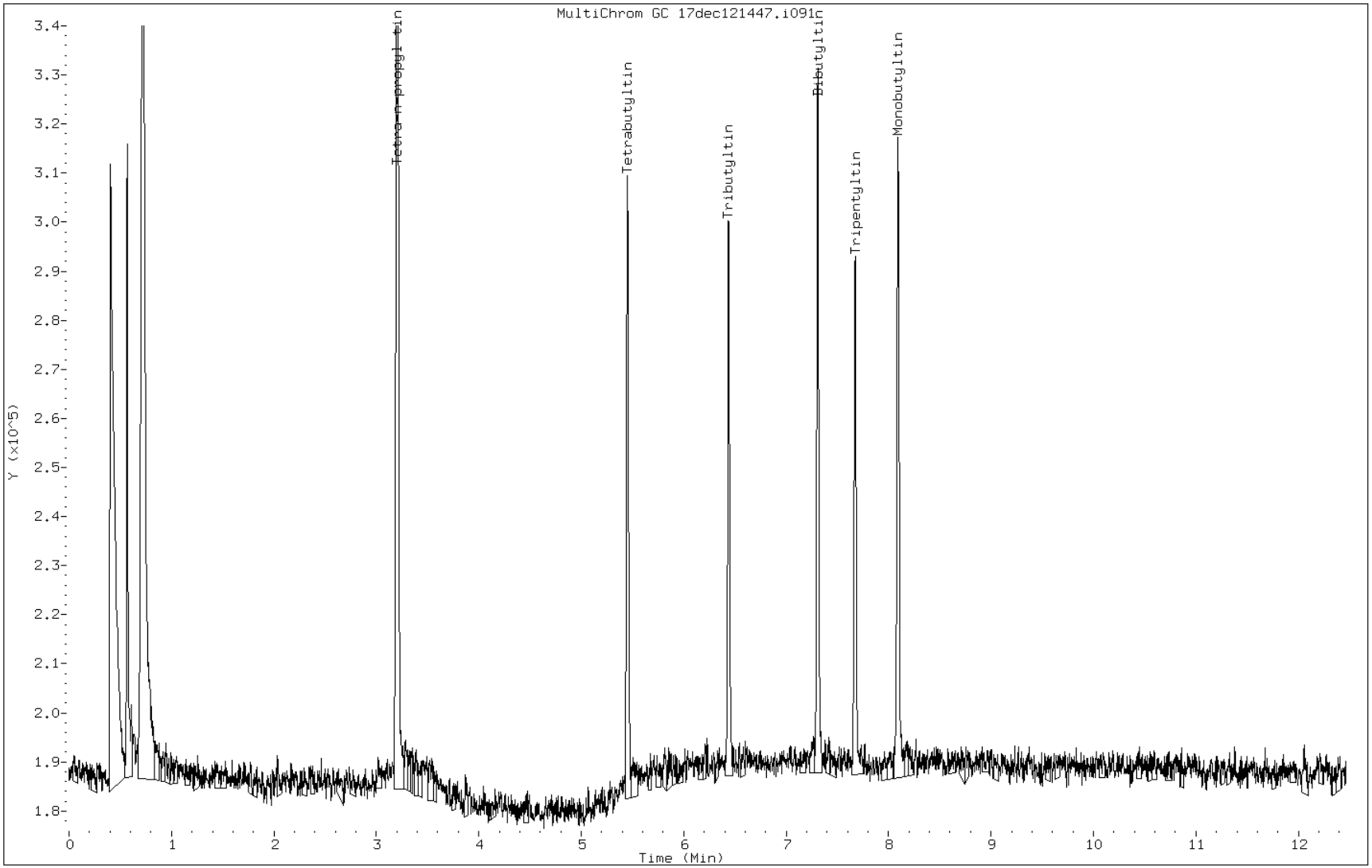
Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	
*	1 Tetra-n-propyl tin					CAS #: 2176-98-9
	3.203	3.194 (1.000)	411127	500.000		
	2 Tetrabutyltin					CAS #: 1461-25-2
	5.451	5.446 (1.702)	171300	254.144	254.1	
	3 Tributyltin					CAS #: 688-73-3
	6.437	6.433 (2.010)	150900	167.432	167.4	
	4 Dibutyltin					CAS #: 1002-53-5
	7.308	7.304 (2.282)	197943	198.025	198.0	
$	5 Tripentyltin					CAS #: 3342-67-4
	7.674	7.670 (2.396)	152707	204.826	204.8	

RT	EXP RT	(REL RT)	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)
6 Monobutyltin					CAS #: 2406-65-7
8.091	8.086	(2.526)	197708	179.893	179.9

Data File:	17dec121447-r091.d	Date:	17-DEC-2012 17:11
Client ID:	ICV	Instrument:	2860_2.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-5		
Sample Info:	ICV-406260,1,ICV		
Lab Sample ID:	ICV-406260		



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Lab Sample ID: CCVRT 200-50011/2 Calibration Date: 12/26/2012 11:30

Instrument ID: 2860.i Calib Start Date: 12/17/2012 15:29

GC Column: RTX-35 ID: 0.32(mm) Calib End Date: 12/17/2012 16:37

Lab File ID: 26dec121110-r021.d Conc. Units: ug/L

EPA Sample No.: 250 PPB

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrabutyltin	Ave	0.6708	0.6269		234	250	-6.5	25.0
Tributyltin	Ave	0.7585	0.6785		199	223	-10.5	25.0
Dibutyltin	Ave	0.7588	0.6694		170	193	-11.8	25.0
Monobutyltin	Ave	0.7294	0.6820		145	155	-6.5	25.0
Tripentyltin	Ave	0.5302	0.4576		199	230	-13.7	25.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Lab Sample ID: CCVRT 200-50011/2 Calibration Date: 12/26/2012 11:30

Instrument ID: 2860.i Calib Start Date: 12/17/2012 15:29

GC Column: RTX-35 ID: 0.32(mm) Calib End Date: 12/17/2012 16:37

Lab File ID: 26dec121110-r021.d

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrabutyltin	4.39	4.34	4.44
Tributyltin	5.44	5.39	5.49
Dibutyltin	6.33	6.28	6.38
Monobutyltin	7.13	7.08	7.18
Tripentyltin	6.69	6.64	6.74

TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_1.i/121712_1/26DEC121110.b/26dec121110-r021.d
Lab Smp Id: CCVRT-406257 Client Smp ID: 250 PPB
Inj Date : 26-DEC-2012 11:30
Operator : RRM Inst ID: 2860_1.i
Smp Info : CCVRT-406257,1,250 PPB
Misc Info :
Comment :
Method : /var/chem/2860_1.i/121712_1/26DEC121110.b/OR560_RTX35.m
Meth Date : 27-Dec-2012 08:32 sld Quant Type: ISTD
Cal Date : 17-DEC-2012 16:37 Cal File: 17dec121447-r071.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

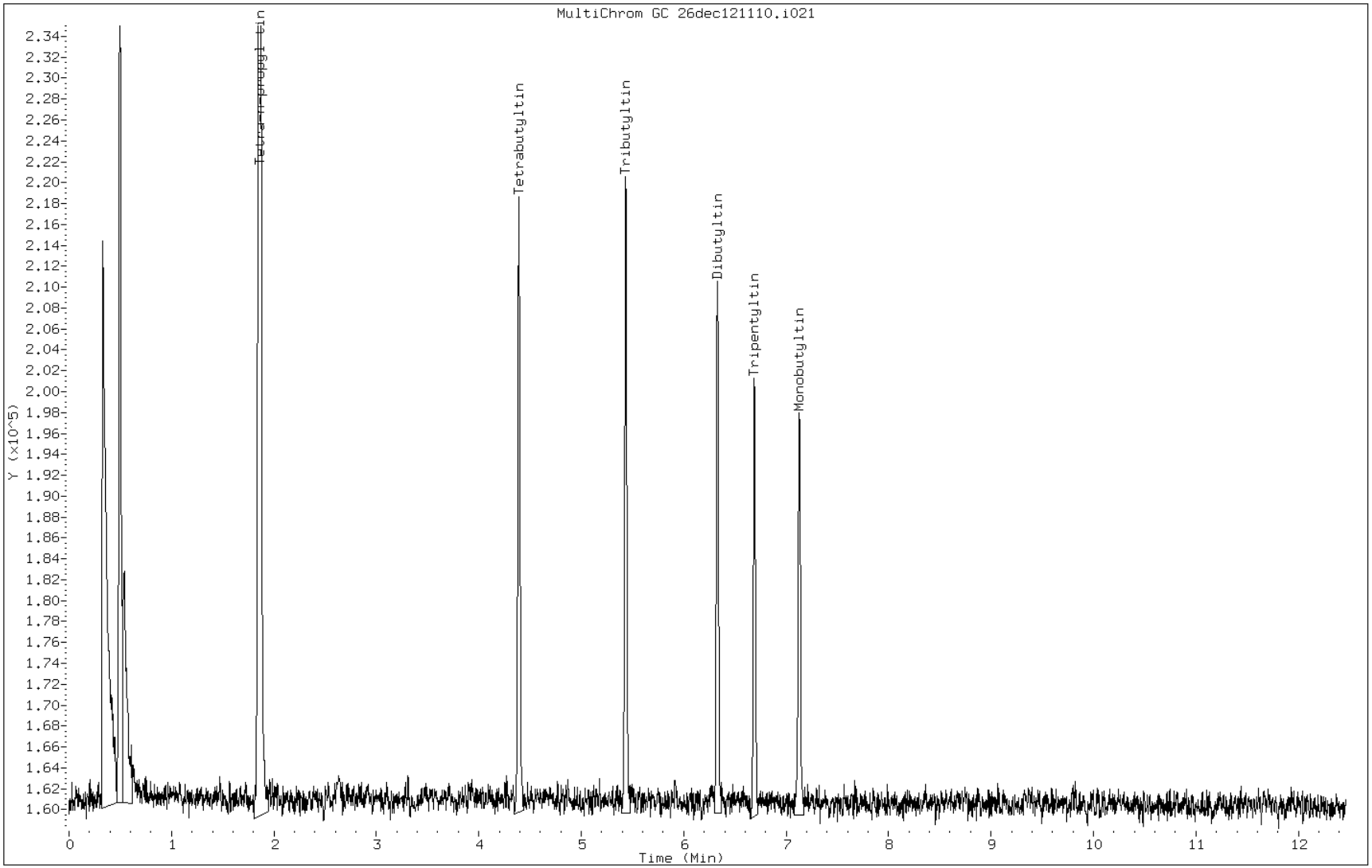
Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	
*	1 Tetra-n-propyl tin					CAS #: 2176-98-9
	1.860	1.860 (1.000)	292101	500.000		
	2 Tetrabutyltin					CAS #: 1461-25-2
	4.391	4.391 (2.361)	91563	250.000	233.7	
	3 Tributyltin					CAS #: 688-73-3
	5.435	5.435 (2.923)	88189	223.000	199.0	
	4 Dibutyltin					CAS #: 1002-53-5
	6.329	6.329 (3.403)	75280	193.000	169.8	
$	5 Tripentyltin					CAS #: 3342-67-4
	6.690	6.690 (3.597)	61485	225.000	198.5	

RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
6 Monobutyltin				CAS #: 2406-65-7
7.129	7.129 (3.833)	61753	155.000	144.9

Data File:	26dec121110-r021.d	Date:	26-DEC-2012 11:30
Client ID:	250 PPB	Instrument:	2860_1.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-35		
Sample Info:	CCVRT-406257,1,250 PPB		
Lab Sample ID:	CCVRT-406257		



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Lab Sample ID: CCVRT 200-50011/2 Calibration Date: 12/26/2012 11:30

Instrument ID: 2860.i Calib Start Date: 12/17/2012 15:29

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 12/17/2012 16:37

Lab File ID: 26dec121110-r021.d Conc. Units: ug/L

EPA Sample No.: 250 PPB

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrabutyltin	Ave	0.8197	0.8467		258	250	3.3	25.0
Tributyltin	Ave	1.096	1.124		228	223	2.6	25.0
Dibutyltin	Ave	1.216	1.316		208	193	8.2	25.0
Monobutyltin	Ave	1.337	1.496		174	155	11.9	25.0
Tripentyltin	Ave	0.9067	0.9063		230	230	-0.0	25.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Lab Sample ID: CCVRT 200-50011/2 Calibration Date: 12/26/2012 11:30

Instrument ID: 2860.i Calib Start Date: 12/17/2012 15:29

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 12/17/2012 16:37

Lab File ID: 26dec121110-r021.d

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrabutyltin	5.43	5.38	5.48
Tributyltin	6.42	6.37	6.47
Dibutyltin	7.29	7.24	7.34
Monobutyltin	8.08	8.03	8.13
Tripentyltin	7.66	7.61	7.71

TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_2.i/121712_1/26DEC121110.b/26dec121110-r021.d
Lab Smp Id: CCVRT-406257 Client Smp ID: 250 PPB
Inj Date : 26-DEC-2012 11:30
Operator : RRM Inst ID: 2860_2.i
Smp Info : CCVRT-406257,1,250 PPB
Misc Info :
Comment :
Method : /var/chem/2860_2.i/121712_1/26DEC121110.b/OR560_RTX5.m
Meth Date : 27-Dec-2012 08:33 sld Quant Type: ISTD
Cal Date : 17-DEC-2012 16:37 Cal File: 17dec121447-r071.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

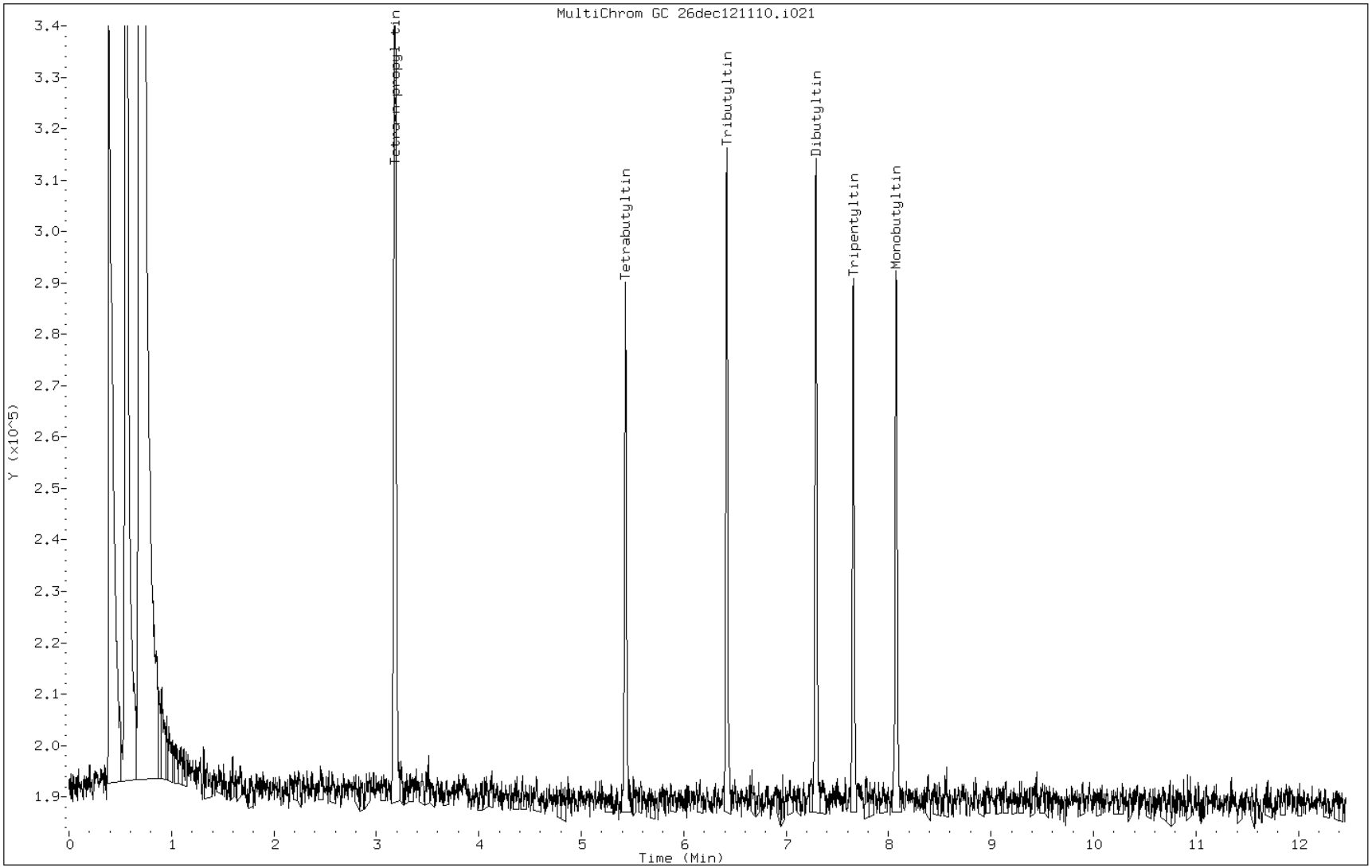
Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	
*	1 Tetra-n-propyl tin					CAS #: 2176-98-9
	3.181	3.181 (1.000)	342410	500.000		
	2 Tetrabutyltin					CAS #: 1461-25-2
	5.433	5.433 (1.708)	144954	250.000	258.2	
	3 Tributyltin					CAS #: 688-73-3
	6.422	6.422 (2.019)	171287	223.000	228.2	
	4 Dibutyltin					CAS #: 1002-53-5
	7.291	7.291 (2.292)	173440	193.000	208.3	
$	5 Tripentyltin					CAS #: 3342-67-4
	7.656	7.656 (2.407)	142745	225.000	229.9	

RT	EXP RT	(REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
6 Monobutyltin					CAS #: 2406-65-7
8.075	8.075	(2.539)	158819	155.000	173.5

Data File:	26dec121110-r021.d	Date:	26-DEC-2012 11:30
Client ID:	250 PPB	Instrument:	2860_2.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-5		
Sample Info:	CCVRT-406257,1,250 PPB		
Lab Sample ID:	CCVRT-406257		



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Lab Sample ID: CCV 200-50011/13 Calibration Date: 12/26/2012 14:35

Instrument ID: 2860.i Calib Start Date: 12/17/2012 15:29

GC Column: RTX-35 ID: 0.32(mm) Calib End Date: 12/17/2012 16:37

Lab File ID: 26dec121110-r131.d Conc. Units: ug/L

EPA Sample No.: 250 PPB

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrabutyltin	Ave	0.6708	0.7430		277	250	10.8	25.0
Tributyltin	Ave	0.7585	0.9717		285	223	28.1*	25.0
Dibutyltin	Ave	0.7588	1.007		255	193	32.6*	25.0
Monobutyltin	Ave	0.7294	0.9086		193	155	24.6	25.0
Tripentyltin	Ave	0.5302	0.6432		279	230	21.3	25.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Lab Sample ID: CCV 200-50011/13 Calibration Date: 12/26/2012 14:35

Instrument ID: 2860.i Calib Start Date: 12/17/2012 15:29

GC Column: RTX-35 ID: 0.32(mm) Calib End Date: 12/17/2012 16:37

Lab File ID: 26dec121110-r131.d

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrabutyltin	4.40	4.34	4.44
Tributyltin	5.44	5.39	5.49
Dibutyltin	6.33	6.28	6.38
Monobutyltin	7.13	7.08	7.18
Tripentyltin	6.69	6.64	6.74

TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_1.i/121712_1/26DEC121110.b/26dec121110-r131.d
Lab Smp Id: CCV-406257 Client Smp ID: 250 PPB
Inj Date : 26-DEC-2012 14:35
Operator : RRM Inst ID: 2860_1.i
Smp Info : CCV-406257,1,250 PPB
Misc Info :
Comment :
Method : /var/chem/2860_1.i/121712_1/26DEC121110.b/OR560_RTX35.m
Meth Date : 27-Dec-2012 08:32 sld Quant Type: ISTD
Cal Date : 17-DEC-2012 16:37 Cal File: 17dec121447-r071.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

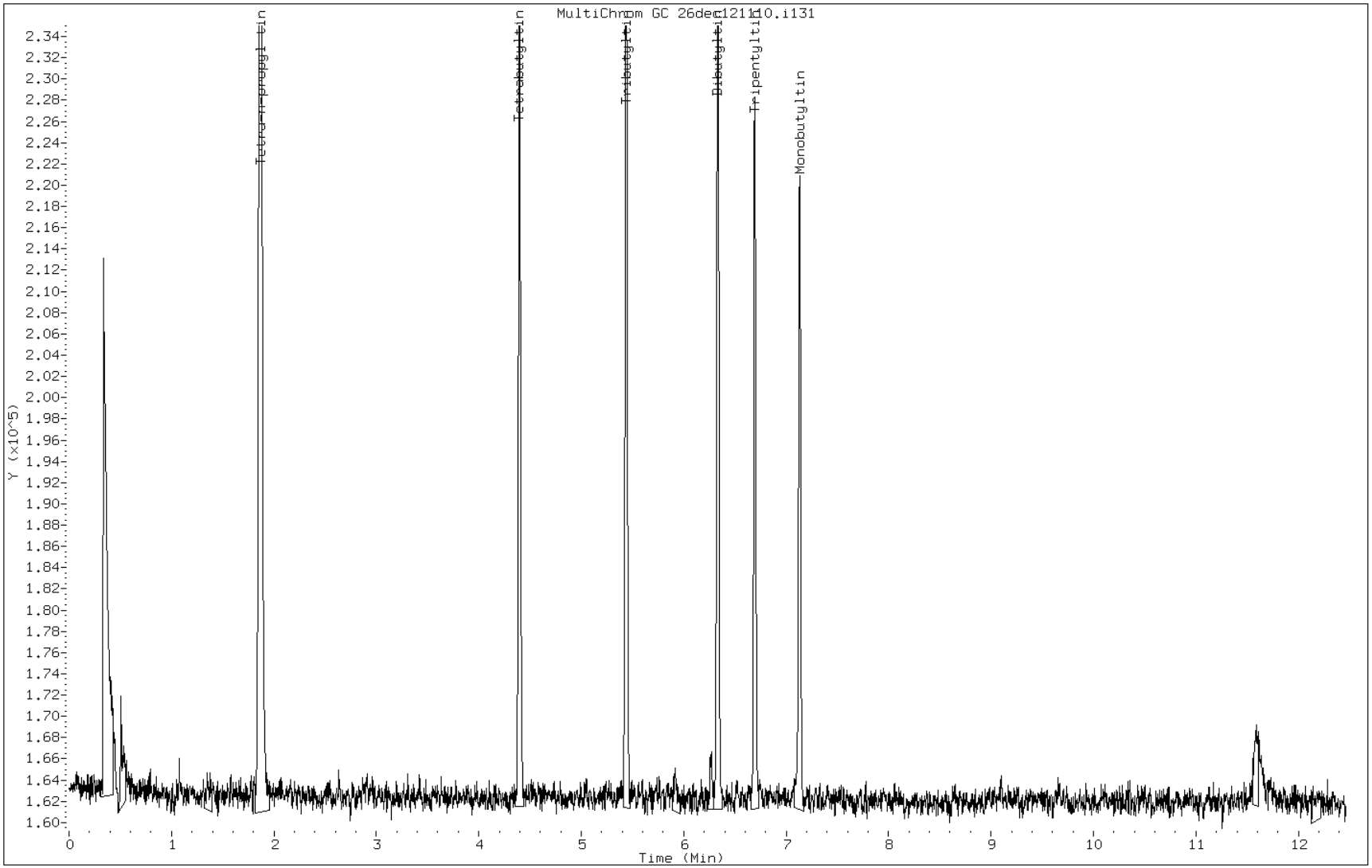
Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	
*	1 Tetra-n-propyl tin					CAS #: 2176-98-9
	1.869	1.860 (1.000)	322609	500.000		
	2 Tetrabutyltin					CAS #: 1461-25-2
	4.396	4.391 (2.352)	119845	250.000	276.9	
	3 Tributyltin					CAS #: 688-73-3
	5.437	5.435 (2.910)	139497	223.000	285.1	
	4 Dibutyltin					CAS #: 1002-53-5
	6.333	6.329 (3.389)	125013	193.000	255.3	
$	5 Tripentyltin					CAS #: 3342-67-4
	6.692	6.690 (3.581)	95453	225.000	279.0	

RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
6 Monobutyltin				CAS #: 2406-65-7
7.131	7.129 (3.816)	90868	155.000	193.1

Data File:	26dec121110-r131.d	Date:	26-DEC-2012 14:35
Client ID:	250 PPB	Instrument:	2860_1.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-35		
Sample Info:	CCV-406257,1,250 PPB		
Lab Sample ID:	CCV-406257		



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Lab Sample ID: CCV 200-50011/13 Calibration Date: 12/26/2012 14:35

Instrument ID: 2860.i Calib Start Date: 12/17/2012 15:29

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 12/17/2012 16:37

Lab File ID: 26dec121110-r131.d Conc. Units: ug/L

EPA Sample No.: 250 PPB

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrabutyltin	Ave	0.8197	0.7858		240	250	-4.1	25.0
Tributyltin	Ave	1.096	1.121		228	223	2.3	25.0
Dibutyltin	Ave	1.216	1.314		208	193	8.1	25.0
Monobutyltin	Ave	1.337	1.382		160	155	3.4	25.0
Tripentyltin	Ave	0.9067	0.8967		227	230	-1.1	25.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Lab Sample ID: CCV 200-50011/13 Calibration Date: 12/26/2012 14:35

Instrument ID: 2860.i Calib Start Date: 12/17/2012 15:29

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 12/17/2012 16:37

Lab File ID: 26dec121110-r131.d

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrabutyltin	5.43	5.38	5.48
Tributyltin	6.42	6.37	6.47
Dibutyltin	7.29	7.24	7.34
Monobutyltin	8.08	8.03	8.13
Tripentyltin	7.66	7.61	7.71

TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_2.i/121712_1/26DEC121110.b/26dec121110-r131.d
Lab Smp Id: CCV-406257 Client Smp ID: 250 PPB
Inj Date : 26-DEC-2012 14:35
Operator : RRM Inst ID: 2860_2.i
Smp Info : CCV-406257,1,250 PPB
Misc Info :
Comment :
Method : /var/chem/2860_2.i/121712_1/26DEC121110.b/OR560_RTX5.m
Meth Date : 27-Dec-2012 08:34 sld Quant Type: ISTD
Cal Date : 17-DEC-2012 16:37 Cal File: 17dec121447-r071.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

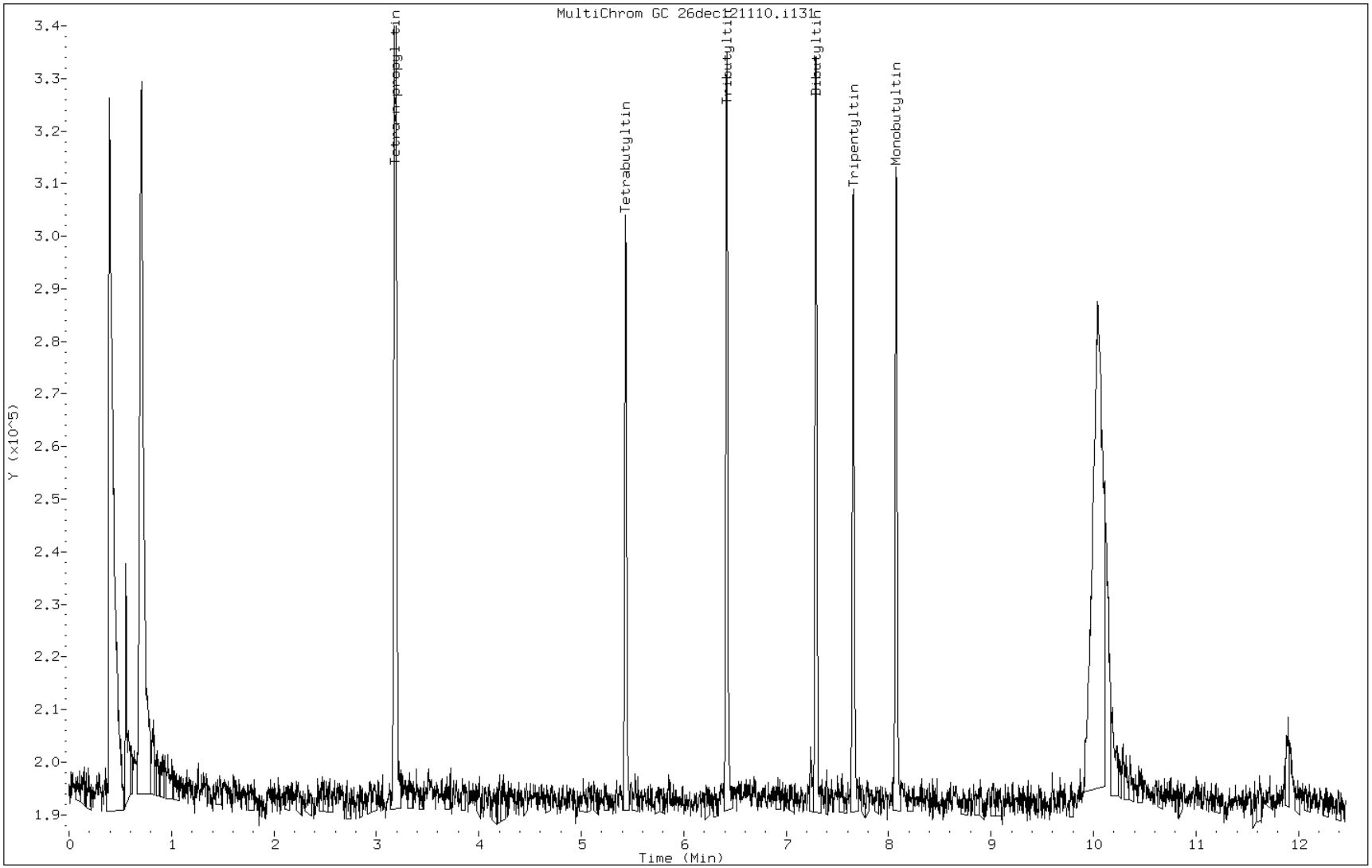
Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	
*	1 Tetra-n-propyl tin					CAS #: 2176-98-9
	3.183	3.181 (1.000)	398078	500.000		
	2 Tetrabutyltin					CAS #: 1461-25-2
	5.433	5.433 (1.707)	156412	250.000	239.7	
	3 Tributyltin					CAS #: 688-73-3
	6.422	6.422 (2.017)	198563	223.000	227.5	
	4 Dibutyltin					CAS #: 1002-53-5
	7.291	7.291 (2.290)	201444	193.000	208.1	
$	5 Tripentyltin					CAS #: 3342-67-4
	7.656	7.656 (2.405)	164197	225.000	227.5	

RT	EXP RT (REL RT)	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
6 Monobutyltin				CAS #: 2406-65-7
8.075	8.075 (2.537)	170525	155.000	160.2

Data File:	26dec121110-r131.d	Date:	26-DEC-2012 14:35
Client ID:	250 PPB	Instrument:	2860_2.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-5		
Sample Info:	CCV-406257,1,250 PPB		
Lab Sample ID:	CCV-406257		



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington
Job No.: 480-29598-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 200-49268/1-A
Matrix: Solid
Lab File ID: 11dec121807-r091.d
Analysis Method: Organotins/GC
Date Collected:
Extraction Method: 3550C
Date Extracted: 12/10/2012 18:10
Sample wt/vol: 30.00(g)
Date Analyzed: 12/11/2012 22:31
Con. Extract Vol.: 1000(uL)
Dilution Factor: 1
Injection Volume: 1.5(uL)
GC Column: RTX-35 ID: 0.32(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 49448
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
688-73-3	Tributyltin	ND		1.5	0.67

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL00386	Tripentyltin	76		30-120

TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_1.i/121112_1/11DEC121807.b/11dec121807-r091.d
Lab Smp Id: MB 200-49268_1-A
Inj Date : 11-DEC-2012 22:31
Operator : RRM Inst ID: 2860_1.i
Smp Info : MB 200-49268_1-A
Misc Info : MB 200-49268_1-A
Comment :
Method : /var/chem/2860_1.i/121112_1/11DEC121807.b/OR560_RTX35.m
Meth Date : 12-Dec-2012 09:27 rrm Quant Type: ISTD
Cal Date : 11-DEC-2012 19:26 Cal File: 11dec121742-r071.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: SOIL
Processing Host: chemsvr5

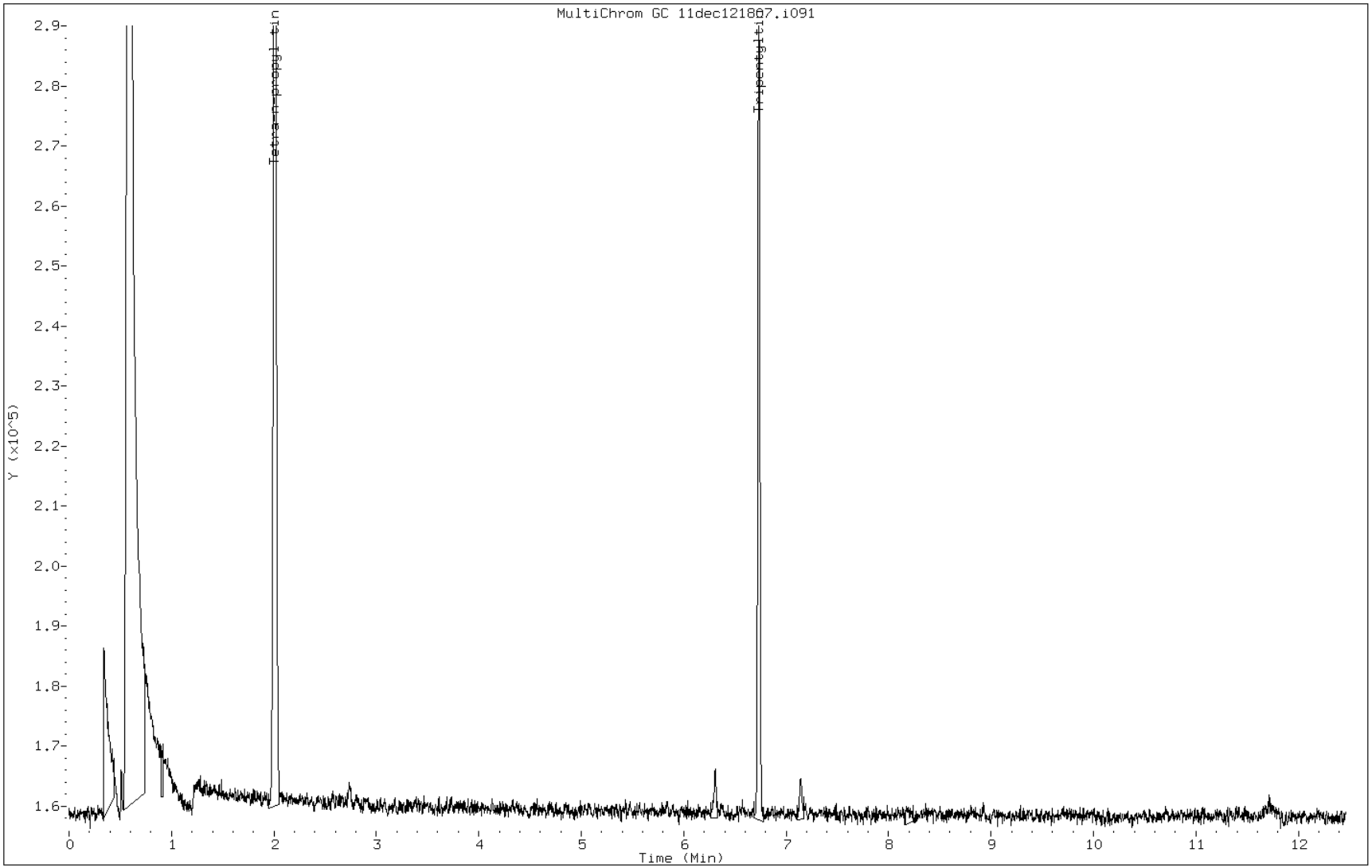
Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)
* 1 Tetra-n-propyl tin				CAS #: 2176-98-9
2.008	2.015 (1.000)	411461	500.000	
$ 5 Tripentyltin				CAS #: 3342-67-4
6.732	6.761 (3.352)	214653	349.191	349.2

Data File:	11dec121807-r091.d	Date:	11-DEC-2012 22:31
Client ID:		Instrument:	2860_1.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-35		
Sample Info:	MB 200-49268_1-A		
Lab Sample ID:	MB 200-49268_1-A		



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington
Job No.: 480-29598-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 200-49268/1-A
Matrix: Solid
Lab File ID: 11dec121807-r091.d
Analysis Method: Organotins/GC
Date Collected:
Extraction Method: 3550C
Date Extracted: 12/10/2012 18:10
Sample wt/vol: 30.00(g)
Date Analyzed: 12/11/2012 22:31
Con. Extract Vol.: 1000(uL)
Dilution Factor: 1
Injection Volume: 1.5(uL)
GC Column: RTX-5 ID: 0.32(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 49448
Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL00386	Tripentyltin	76		30-120

TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_2.i/121112_1/11DEC121807.b/11dec121807-r091.d
Lab Smp Id: MB 200-49268_1-A
Inj Date : 11-DEC-2012 22:31
Operator : RRM Inst ID: 2860_2.i
Smp Info : MB 200-49268_1-A
Misc Info : MB 200-49268_1-A
Comment :
Method : /var/chem/2860_2.i/121112_1/11DEC121807.b/OR560_RTX5.m
Meth Date : 12-Dec-2012 11:45 rrm Quant Type: ISTD
Cal Date : 11-DEC-2012 19:26 Cal File: 11dec121742-r071.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: SOIL
Processing Host: chemsvr5

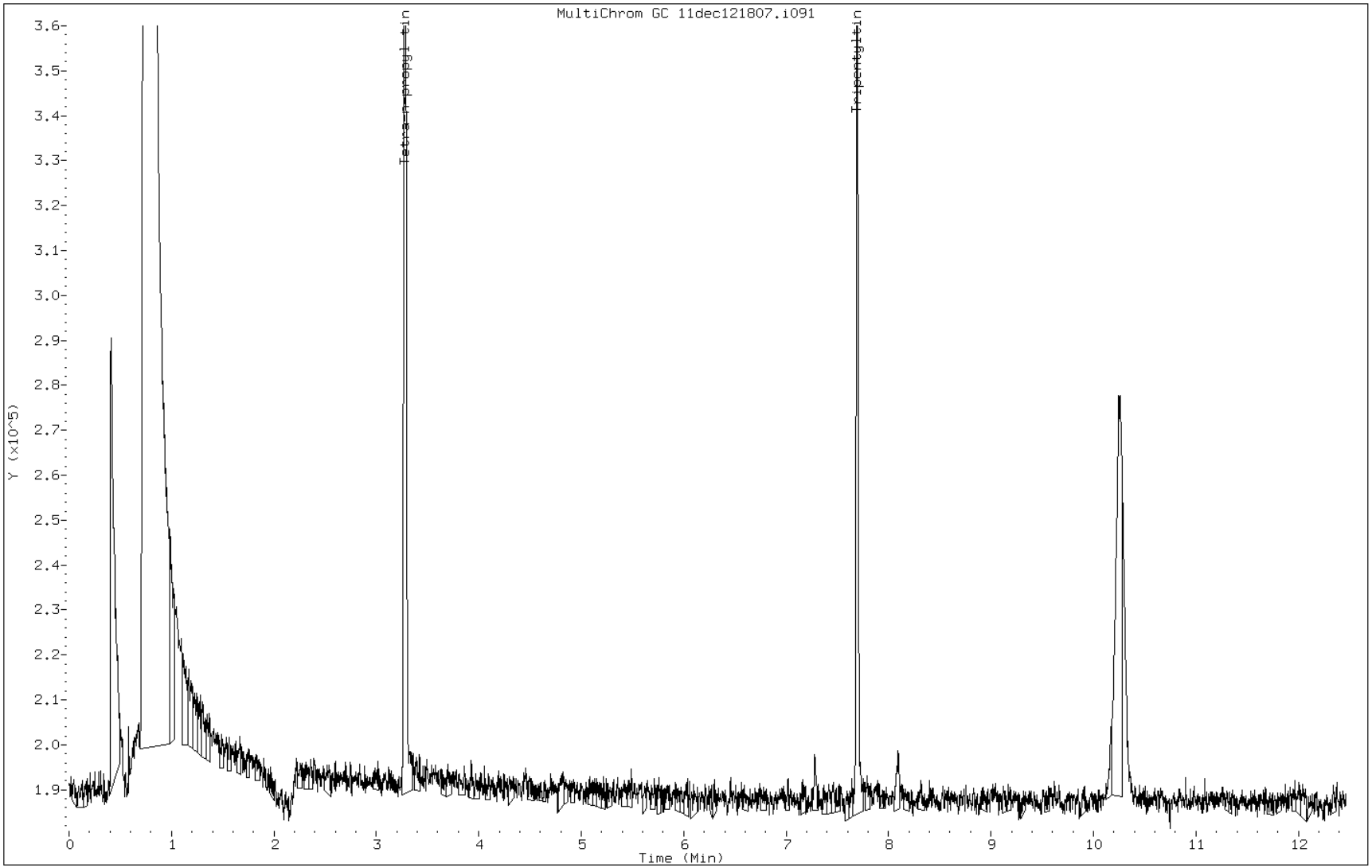
Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)
*	1 Tetra-n-propyl tin				CAS #: 2176-98-9
	3.281	3.305 (1.000)	488623	500.000	
$	5 Tripentyltin				CAS #: 3342-67-4
	7.692	7.730 (2.345)	302601	351.086	351.1

Data File:	11dec121807-r091.d	Date:	11-DEC-2012 22:31
Client ID:		Instrument:	2860_2.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-5		
Sample Info:	MB 200-49268_1-A		
Lab Sample ID:	MB 200-49268_1-A		



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington
Job No.: 480-29598-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 200-49894/1-A
Matrix: Solid
Lab File ID: 26dec121110-r031.d
Analysis Method: Organotins/GC
Date Collected:
Extraction Method: 3550C
Date Extracted: 12/22/2012 08:12
Sample wt/vol: 30.10(g)
Date Analyzed: 12/26/2012 11:46
Con. Extract Vol.: 1000(uL)
Dilution Factor: 1
Injection Volume: 1.5(uL)
GC Column: RTX-35 ID: 0.32(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 50011
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
688-73-3	Tributyltin	ND		1.5	0.67

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL00386	Tripentyltin	69		30-120

TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_1.i/121712_1/26DEC121110.b/26dec121110-r031.d
Lab Smp Id: MB 200-49894_1-A
Inj Date : 26-DEC-2012 11:46
Operator : RRM Inst ID: 2860_1.i
Smp Info : MB 200-49894_1-A
Misc Info : MB 200-49894_1-A
Comment :
Method : /var/chem/2860_1.i/121712_1/26DEC121110.b/OR560_RTX35.m
Meth Date : 27-Dec-2012 08:32 sld Quant Type: ISTD
Cal Date : 17-DEC-2012 16:37 Cal File: 17dec121447-r071.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: SOIL
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

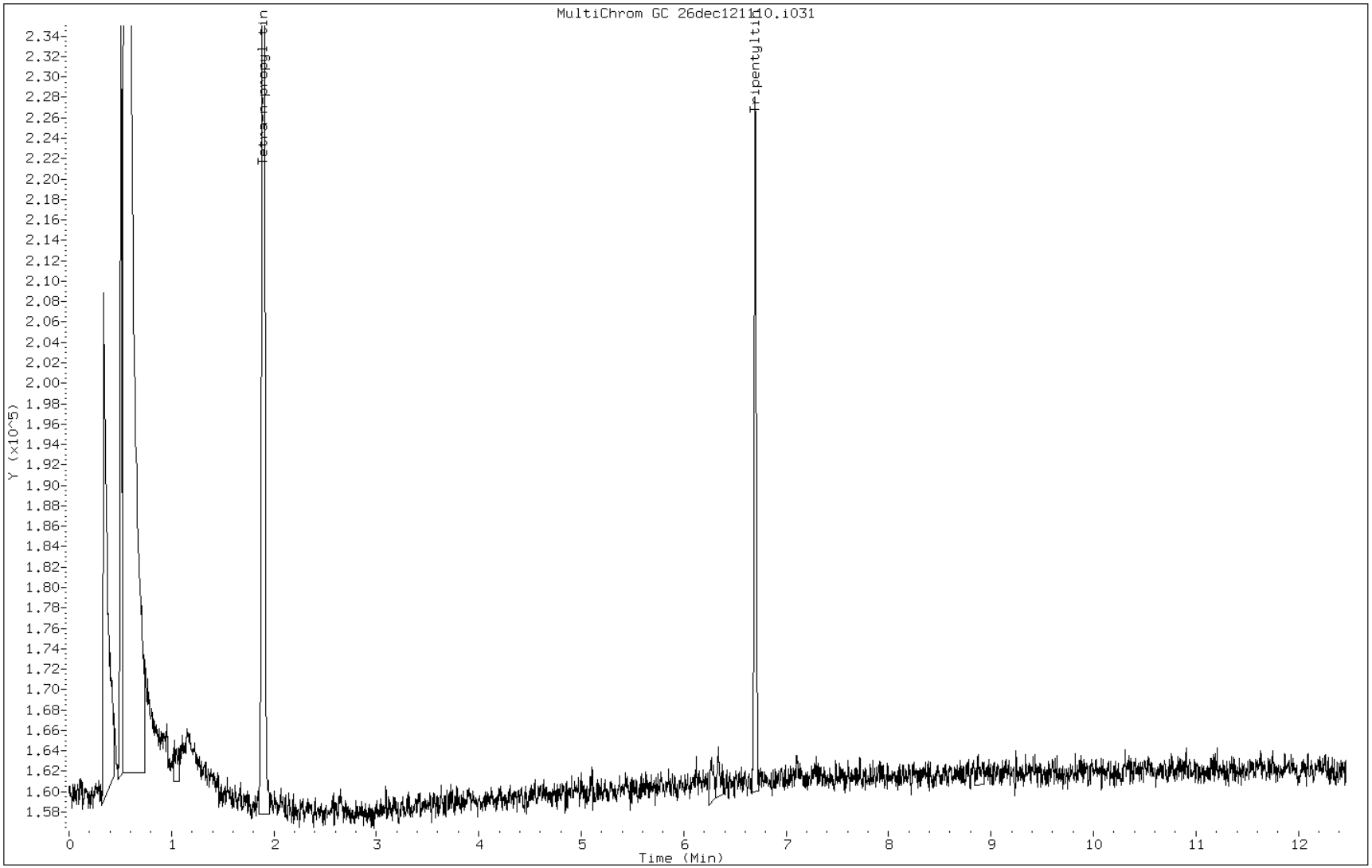
Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

```
                                    CONCENTRATIONS
                                    ON-COL    FINAL
   RT   EXP RT (REL RT)        RESPONSE ( ug/L)  ( ug/L)
   ==   ====== ========        ======== =======  =======

*   1 Tetra-n-propyl tin                          CAS #: 2176-98-9
  1.895   1.860 (1.000)          288984 500.000
-------------------------------------------------------------------------------
$   5 Tripentyltin                                CAS #: 3342-67-4
  6.699   6.690 (3.534)           97131 316.995    317.0
-------------------------------------------------------------------------------
```

Data File:	26dec121110-r031.d	Date:	26-DEC-2012 11:46
Client ID:		Instrument:	2860_1.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-35		
Sample Info:	MB 200-49894_1-A		
Lab Sample ID:	MB 200-49894_1-A		



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington
Job No.: 480-29598-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 200-49894/1-A
Matrix: Solid
Lab File ID: 26dec121110-r031.d
Analysis Method: Organotins/GC
Date Collected:
Extraction Method: 3550C
Date Extracted: 12/22/2012 08:12
Sample wt/vol: 30.10(g)
Date Analyzed: 12/26/2012 11:46
Con. Extract Vol.: 1000(uL)
Dilution Factor: 1
Injection Volume: 1.5(uL)
GC Column: RTX-5 ID: 0.32(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 50011
Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL00386	Tripentyltin	76		30-120

TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_2.i/121712_1/26DEC121110.b/26dec121110-r031.d
Lab Smp Id: MB 200-49894_1-A
Inj Date : 26-DEC-2012 11:46
Operator : RRM Inst ID: 2860_2.i
Smp Info : MB 200-49894_1-A
Misc Info : MB 200-49894_1-A
Comment :
Method : /var/chem/2860_2.i/121712_1/26DEC121110.b/OR560_RTX5.m
Meth Date : 27-Dec-2012 08:33 sld Quant Type: ISTD
Cal Date : 17-DEC-2012 16:37 Cal File: 17dec121447-r071.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: SOIL
Processing Host: chemsvr5

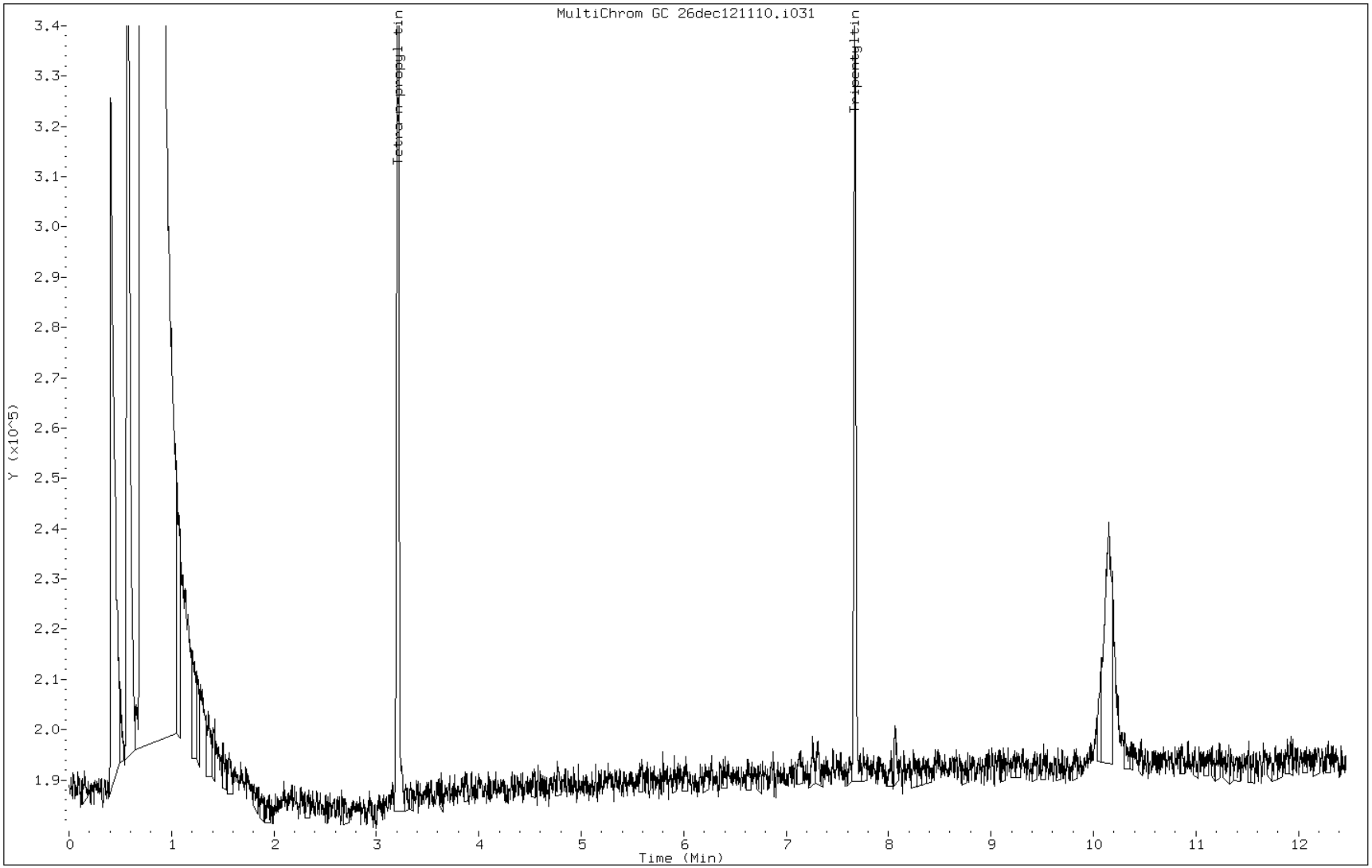
Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)
*	1 Tetra-n-propyl tin				CAS #: 2176-98-9
	3.208	3.181 (1.000)	342302	500.000	
$	5 Tripentyltin				CAS #: 3342-67-4
	7.670	7.656 (2.391)	215941	347.877	347.9

Data File:	26dec121110-r031.d	Date:	26-DEC-2012 11:46
Client ID:		Instrument:	2860_2.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-5		
Sample Info:	MB 200-49894_1-A		
Lab Sample ID:	MB 200-49894_1-A		



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington
Job No.: 480-29598-1
SDG No.:
Client Sample ID:
Lab Sample ID: CCB 200-50011/1
Matrix: Solid
Lab File ID: 26dec121110-r011.d
Analysis Method: Organotins/GC
Date Collected:
Extraction Method:
Date Extracted:
Sample wt/vol:
Date Analyzed: 12/26/2012 11:13
Con. Extract Vol.: 0.1(mL)
Dilution Factor: 1
Injection Volume: 1.5(uL)
GC Column: RTX-35 ID: 0.32(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 50011
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
688-73-3	Tributyltin	ND		0.045	0.023

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL00386	Tripentyltin			

TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_1.i/121712_1/26DEC121110.b/26dec121110-r011.d
Lab Smp Id: CCB
Inj Date : 26-DEC-2012 11:13
Operator : RRM Inst ID: 2860_1.i
Smp Info : CCB
Misc Info :
Comment :
Method : /var/chem/2860_1.i/121712_1/26DEC121110.b/OR560_RTX35.m
Meth Date : 27-Dec-2012 08:32 sld Quant Type: ISTD
Cal Date : 17-DEC-2012 16:37 Cal File: 17dec121447-r071.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: chemsvr5

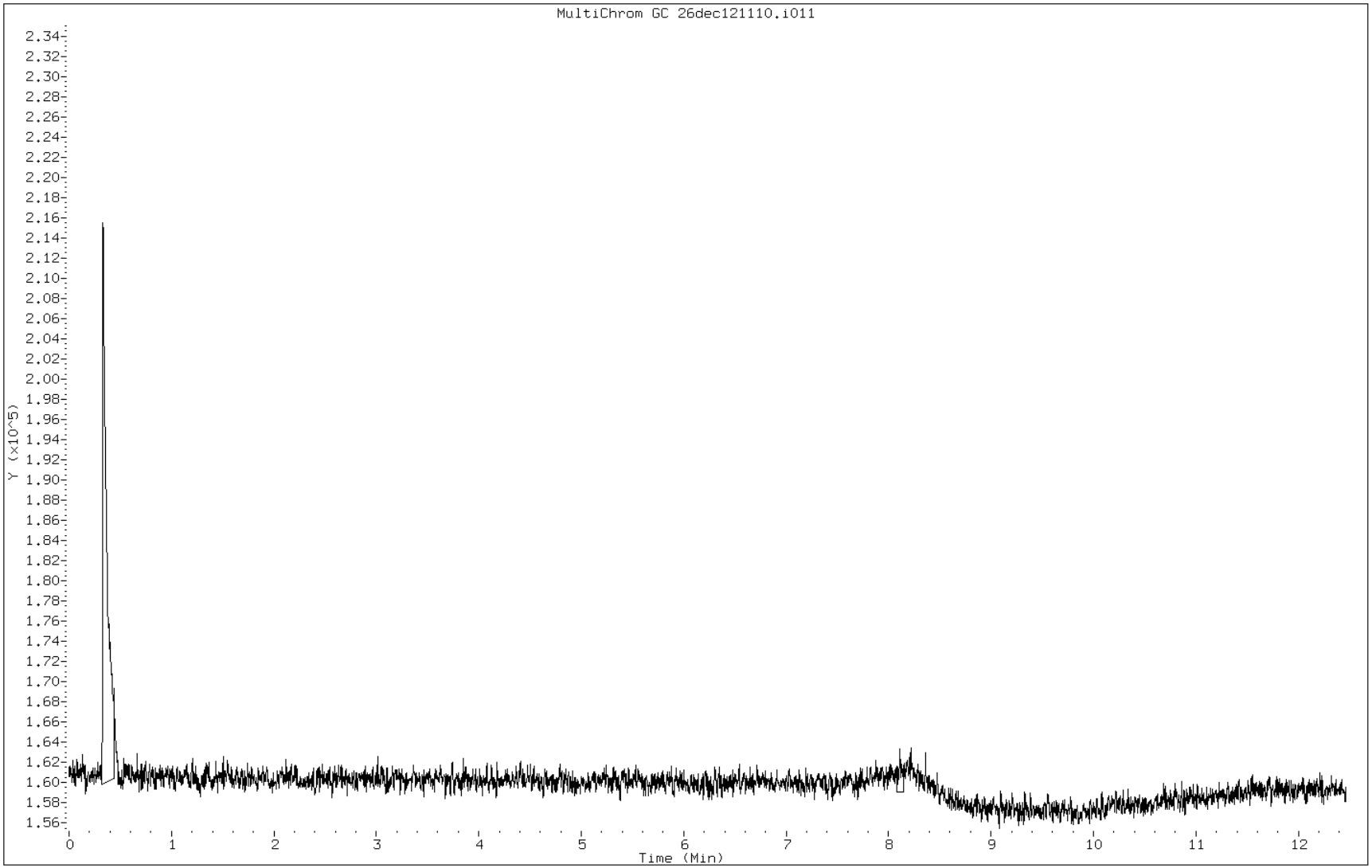
Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)

Data File:	26dec121110-r011.d	Date:	26-DEC-2012 11:13
Client ID:		Instrument:	2860_1.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-35		
Sample Info:	CCB		
Lab Sample ID:	CCB		



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington
Job No.: 480-29598-1
SDG No.:
Client Sample ID:
Lab Sample ID: CCB 200-50011/1
Matrix: Solid
Lab File ID: 26dec121110-r011.d
Analysis Method: Organotins/GC
Date Collected:
Extraction Method:
Date Extracted:
Sample wt/vol:
Date Analyzed: 12/26/2012 11:13
Con. Extract Vol.: 0.1(mL)
Dilution Factor: 1
Injection Volume: 1.5(uL)
GC Column: RTX-5 ID: 0.32(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 50011
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
688-73-3	Tributyltin	ND		0.045	0.023

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL00386	Tripentyltin			

TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_2.i/121712_1/26DEC121110.b/26dec121110-r011.d
Lab Smp Id: CCB
Inj Date : 26-DEC-2012 11:13
Operator : RRM Inst ID: 2860_2.i
Smp Info : CCB
Misc Info :
Comment :
Method : /var/chem/2860_2.i/121712_1/26DEC121110.b/OR560_RTX5.m
Meth Date : 27-Dec-2012 08:33 sld Quant Type: ISTD
Cal Date : 17-DEC-2012 16:37 Cal File: 17dec121447-r071.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: chemsvr5

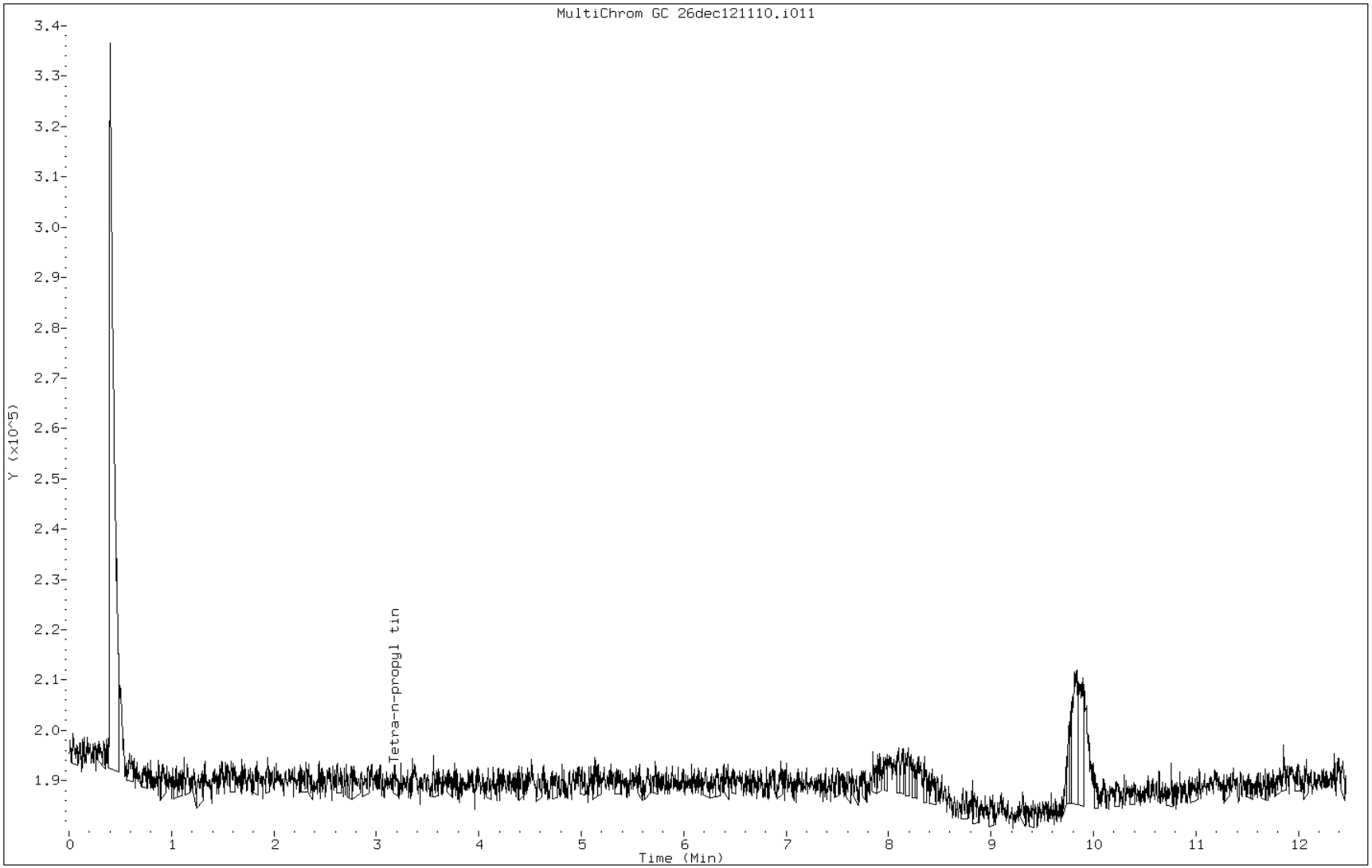
Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)
* 1 Tetra-n-propyl tin				CAS #: 2176-98-9
3.179	3.181 (1.000)	9790	500.000	

Data File:	26dec121110-r011.d	Date:	26-DEC-2012 11:13
Client ID:		Instrument:	2860_2.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-5		
Sample Info:	CCB		
Lab Sample ID:	CCB		



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington
Job No.: 480-29598-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 200-49268/2-A
Matrix: Solid
Lab File ID: 11dec121807-r101.d
Analysis Method: Organotins/GC
Date Collected:
Extraction Method: 3550C
Date Extracted: 12/10/2012 18:10
Sample wt/vol: 30.00(g)
Date Analyzed: 12/11/2012 22:48
Con. Extract Vol.: 1000(uL)
Dilution Factor: 1
Injection Volume: 1.5(uL)
GC Column: RTX-35 ID: 0.32(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 49448
Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL00386	Tripentyltin	84		30-120

TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_1.i/121112_1/11DEC121807.b/11dec121807-r101.d
Lab Smp Id: LCS 200-49268_2-A
Inj Date : 11-DEC-2012 22:48
Operator : RRM Inst ID: 2860_1.i
Smp Info : LCS 200-49268_2-A
Misc Info : LCS 200-49268_2-A
Comment :
Method : /var/chem/2860_1.i/121112_1/11DEC121807.b/OR560_RTX35.m
Meth Date : 12-Dec-2012 09:27 rrm Quant Type: ISTD
Cal Date : 11-DEC-2012 19:26 Cal File: 11dec121742-r071.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: SOIL
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

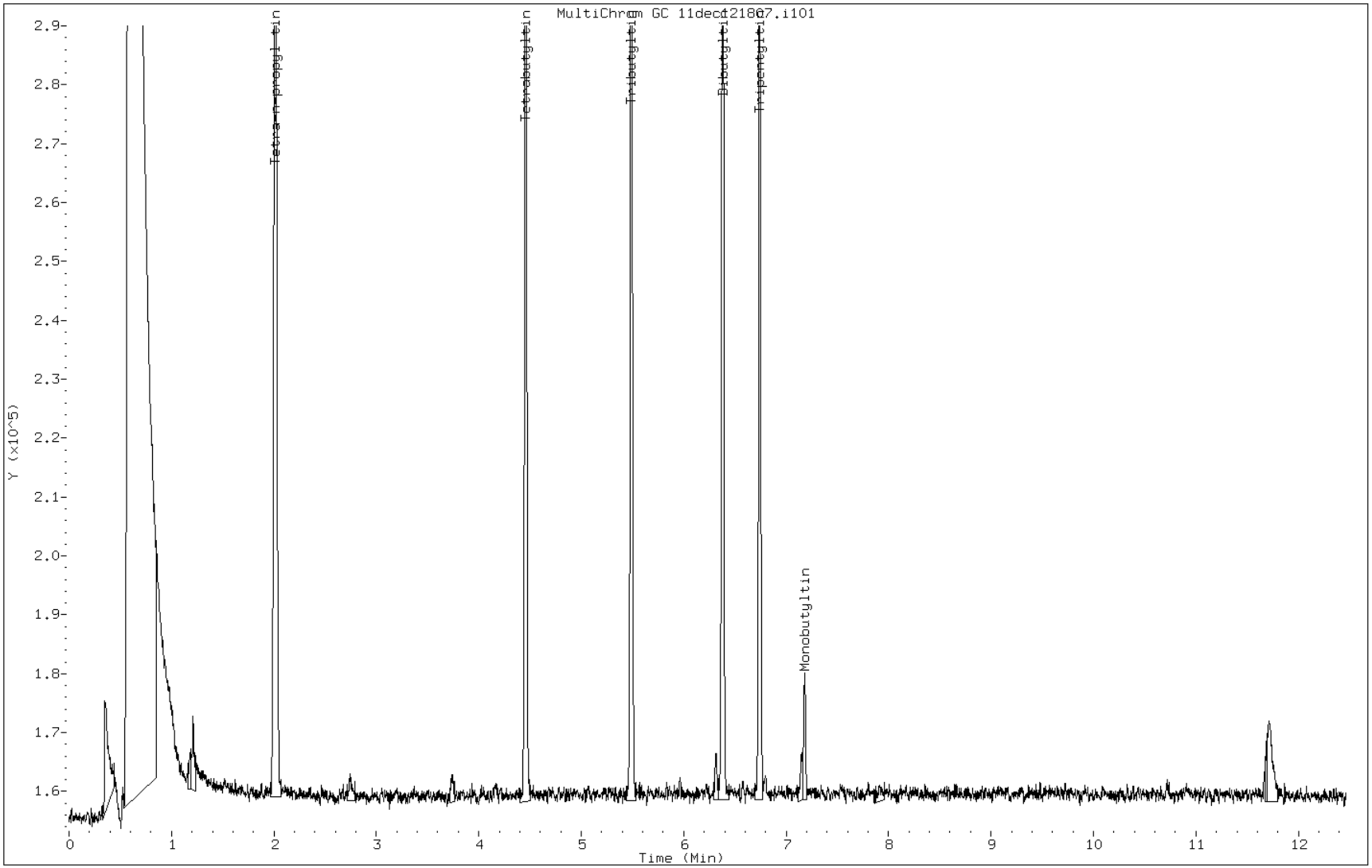
Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	
*	1 Tetra-n-propyl tin					CAS #: 2176-98-9
	2.013	2.015 (1.000)	395150	500.000		
	2 Tetrabutyltin					CAS #: 1461-25-2
	4.458	4.475 (2.215)	244066	398.847	398.8	
	3 Tributyltin					CAS #: 688-73-3
	5.488	5.508 (2.727)	294891	381.741	381.7	
	4 Dibutyltin					CAS #: 1002-53-5
	6.382	6.402 (3.171)	278326	327.712	327.7	
$	5 Tripentyltin					CAS #: 3342-67-4
	6.741	6.761 (3.349)	227318	385.058	385.1	

RT	EXP RT	(REL RT)	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)
6 Monobutyltin					CAS #: 2406-65-7
7.180	7.200	(3.567)	28793	34.0323	34.03

Data File:	11dec121807-r101.d	Date:	11-DEC-2012 22:48
Client ID:		Instrument:	2860_1.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-35		
Sample Info:	LCS 200-49268_2-A		
Lab Sample ID:	LCS 200-49268_2-A		



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington
Job No.: 480-29598-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 200-49268/2-A
Matrix: Solid
Lab File ID: 11dec121807-r101.d
Analysis Method: Organotins/GC
Date Collected:
Extraction Method: 3550C
Date Extracted: 12/10/2012 18:10
Sample wt/vol: 30.00(g)
Date Analyzed: 12/11/2012 22:48
Con. Extract Vol.: 1000(uL)
Dilution Factor: 1
Injection Volume: 1.5(uL)
GC Column: RTX-5 ID: 0.32(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 49448
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
688-73-3	Tributyltin	12.5		1.5	0.67

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL00386	Tripentyltin	77		30-120

TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_2.i/121112_1/11DEC121807.b/11dec121807-r101.d
Lab Smp Id: LCS 200-49268_2-A
Inj Date : 11-DEC-2012 22:48
Operator : RRM Inst ID: 2860_2.i
Smp Info : LCS 200-49268_2-A
Misc Info : LCS 200-49268_2-A
Comment :
Method : /var/chem/2860_2.i/121112_1/11DEC121807.b/OR560_RTX5.m
Meth Date : 12-Dec-2012 11:45 rrm Quant Type: ISTD
Cal Date : 11-DEC-2012 19:26 Cal File: 11dec121742-r071.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: SOIL
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

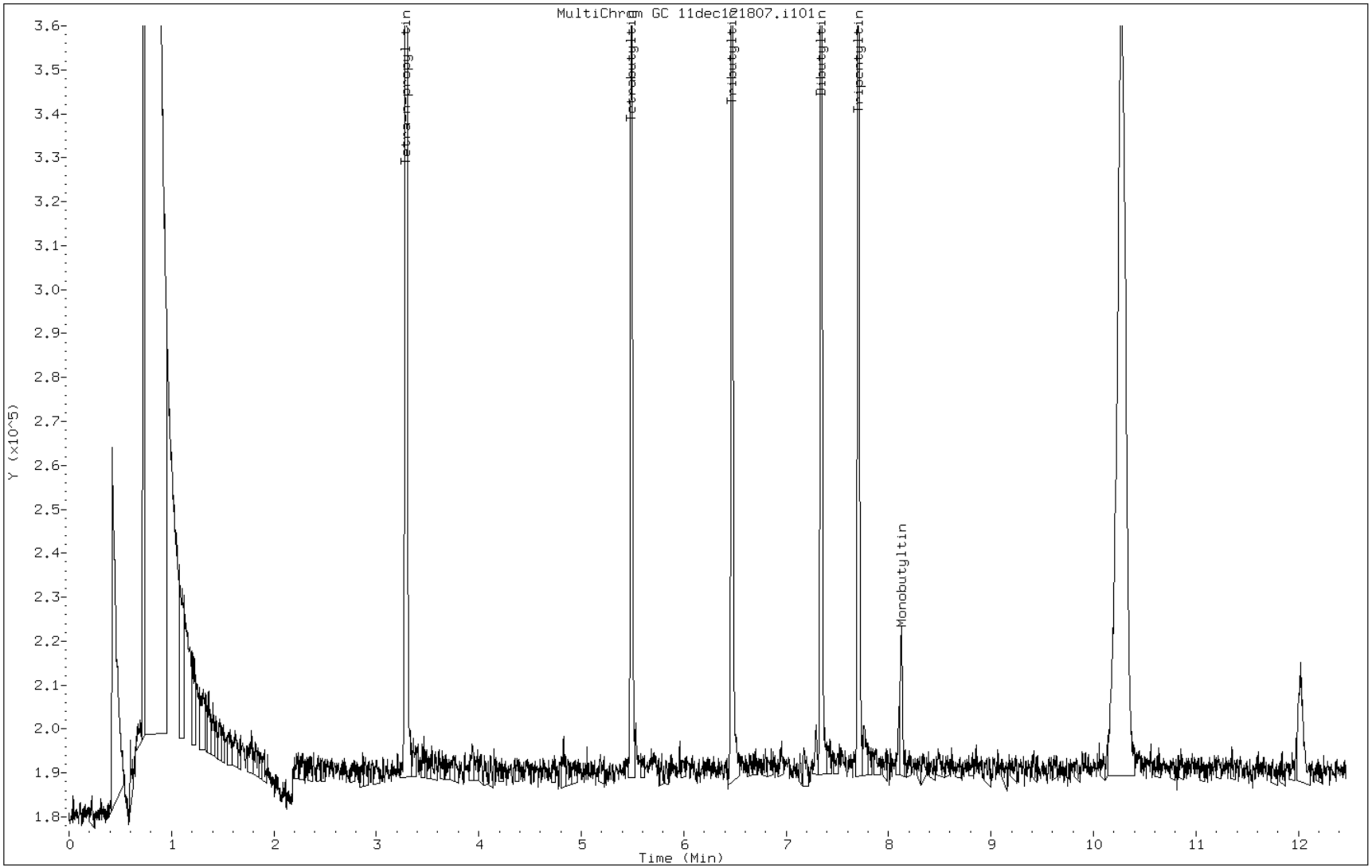
	RT	EXP RT (REL RT)	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	
*	1 Tetra-n-propyl tin					CAS #: 2176-98-9
	3.290	3.305 (1.000)	475978	500.000		
	2 Tetrabutyltin					CAS #: 1461-25-2
	5.491	5.515 (1.669)	290937	372.811	372.8	
	3 Tributyltin					CAS #: 688-73-3
	6.473	6.495 (1.968)	386840	375.462	375.5	
	4 Dibutyltin					CAS #: 1002-53-5
	7.342	7.366 (2.232)	357006	303.979	304.0	
$	5 Tripentyltin					CAS #: 3342-67-4
	7.705	7.730 (2.342)	297786	354.678	354.7	

RT	EXP RT	(REL RT)	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	
6 Monobutyltin					CAS #: 2406-65-7	
8.126	8.148	(2.464)	49380	40.0432	40.04	(M)

QC Flag Legend

M - Compound response manually integrated.

Data File:	11dec121807-r101.d	Date:	11-DEC-2012 22:48
Client ID:		Instrument:	2860_2.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-5		
Sample Info:	LCS 200-49268_2-A		
Lab Sample ID:	LCS 200-49268_2-A		



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington
Job No.: 480-29598-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 200-49894/2-A
Matrix: Solid
Lab File ID: 26dec121110-r041.d
Analysis Method: Organotins/GC
Date Collected:
Extraction Method: 3550C
Date Extracted: 12/22/2012 08:12
Sample wt/vol: 29.96(g)
Date Analyzed: 12/26/2012 12:03
Con. Extract Vol.: 1000(uL)
Dilution Factor: 1
Injection Volume: 1.5(uL)
GC Column: RTX-35 ID: 0.32(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 50011
Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL00386	Tripentyltin	82		30-120

TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_1.i/121712_1/26DEC121110.b/26dec121110-r041.d
Lab Smp Id: LCS 200-49894_2-A
Inj Date : 26-DEC-2012 12:03
Operator : RRM Inst ID: 2860_1.i
Smp Info : LCS 200-49894_2-A
Misc Info : LCS 200-49894_2-A
Comment :
Method : /var/chem/2860_1.i/121712_1/26DEC121110.b/OR560_RTX35.m
Meth Date : 27-Dec-2012 08:32 sld Quant Type: ISTD
Cal Date : 17-DEC-2012 16:37 Cal File: 17dec121447-r071.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: SOIL
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

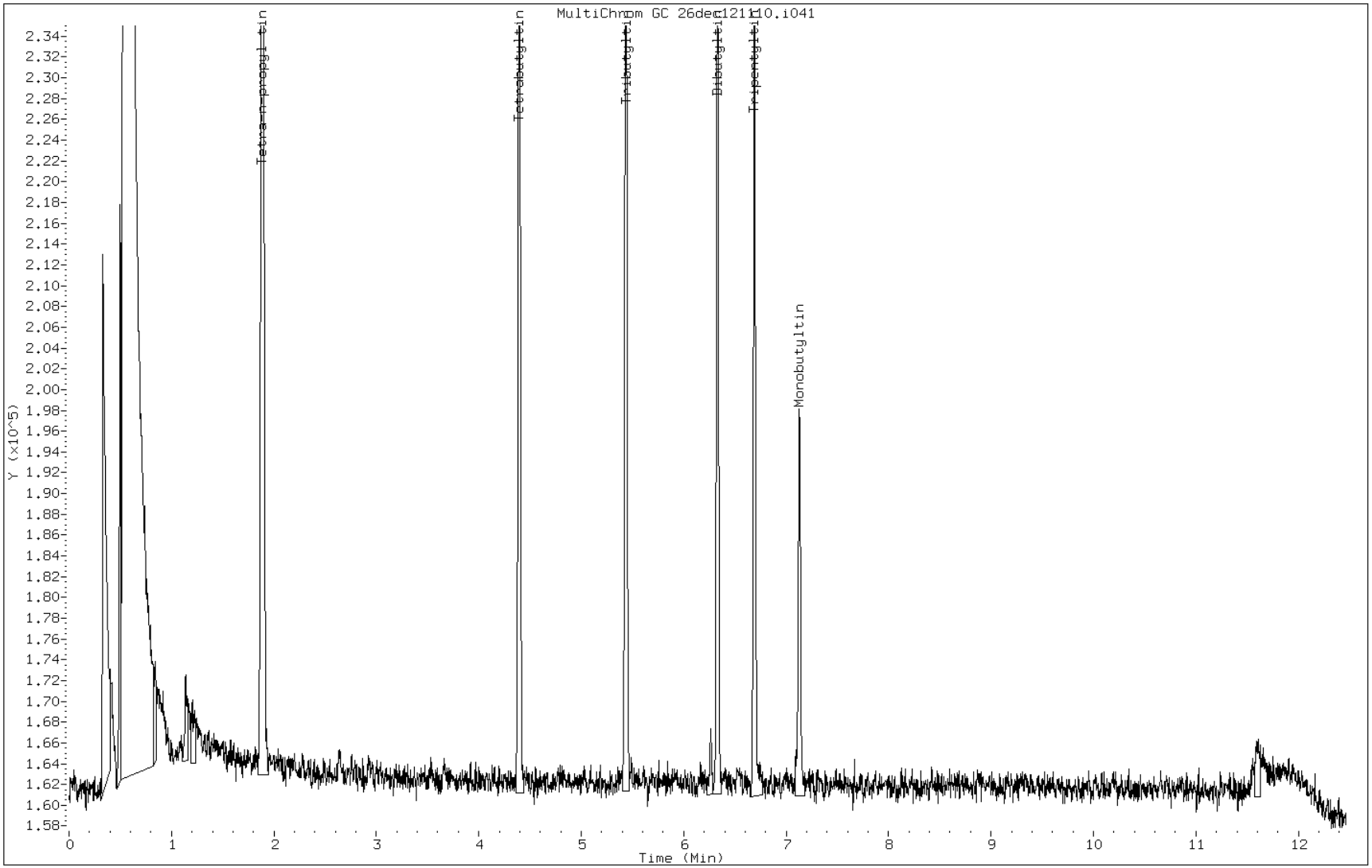
Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	
*	1 Tetra-n-propyl tin					CAS #: 2176-98-9
	1.886	1.860 (1.000)	294860	500.000		
	2 Tetrabutyltin					CAS #: 1461-25-2
	4.393	4.391 (2.329)	157701	398.672	398.7	
	3 Tributyltin					CAS #: 688-73-3
	5.437	5.435 (2.882)	168635	377.020	377.0	
	4 Dibutyltin					CAS #: 1002-53-5
	6.331	6.329 (3.356)	121037	270.473	270.5	
$	5 Tripentyltin					CAS #: 3342-67-4
	6.690	6.690 (3.546)	117275	375.110	375.1	

RT	EXP RT	(REL RT)	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)
6 Monobutyltin					CAS #: 2406-65-7
7.129	7.129	(3.779)	61629	143.285	143.3

Data File:	26dec121110-r041.d	Date:	26-DEC-2012 12:03
Client ID:		Instrument:	2860_1.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-35		
Sample Info:	LCS 200-49894_2-A		
Lab Sample ID:	LCS 200-49894_2-A		



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington
Job No.: 480-29598-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 200-49894/2-A
Matrix: Solid
Lab File ID: 26dec121110-r041.d
Analysis Method: Organotins/GC
Date Collected:
Extraction Method: 3550C
Date Extracted: 12/22/2012 08:12
Sample wt/vol: 29.96(g)
Date Analyzed: 12/26/2012 12:03
Con. Extract Vol.: 1000(uL)
Dilution Factor: 1
Injection Volume: 1.5(uL)
GC Column: RTX-5 ID: 0.32(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 50011
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
688-73-3	Tributyltin	11.7		1.5	0.67

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL00386	Tripentyltin	76		30-120

TestAmerica Burlington

Alkyl Tin Quantitation Report

Data file : /var/chem/2860_2.i/121712_1/26DEC121110.b/26dec121110-r041.d
Lab Smp Id: LCS 200-49894_2-A
Inj Date : 26-DEC-2012 12:03
Operator : RRM Inst ID: 2860_2.i
Smp Info : LCS 200-49894_2-A
Misc Info : LCS 200-49894_2-A
Comment :
Method : /var/chem/2860_2.i/121712_1/26DEC121110.b/OR560_RTX5.m
Meth Date : 27-Dec-2012 08:33 sld Quant Type: ISTD
Cal Date : 17-DEC-2012 16:37 Cal File: 17dec121447-r071.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: SOIL
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

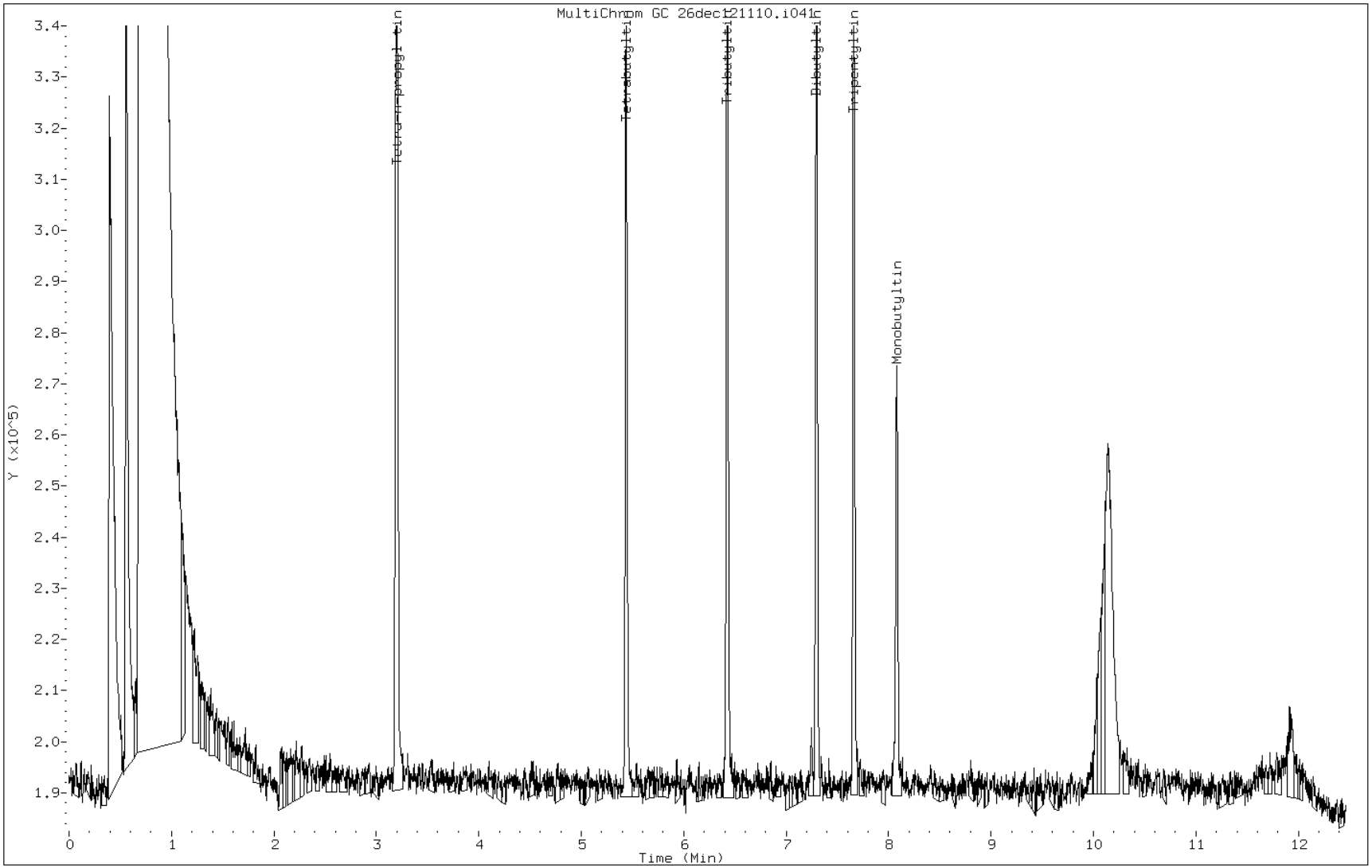
Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	
*	1 Tetra-n-propyl tin					CAS #: 2176-98-9
	3.199	3.181 (1.000)	352364	500.000		
	2 Tetrabutyltin					CAS #: 1461-25-2
	5.437	5.433 (1.700)	213537	369.639	369.6	
	3 Tributyltin					CAS #: 688-73-3
	6.424	6.422 (2.008)	269814	349.298	349.3	
	4 Dibutyltin					CAS #: 1002-53-5
	7.295	7.291 (2.281)	220253	257.090	257.1	
$	5 Tripentyltin					CAS #: 3342-67-4
	7.659	7.656 (2.394)	224760	351.745	351.7	

RT	EXP RT	(REL RT)	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)
6 Monobutyltin					CAS #: 2406-65-7
8.082	8.075	(2.527)	132459	140.622	140.6

Data File:	26dec121110-r041.d	Date:	26-DEC-2012 12:03
Client ID:		Instrument:	2860_2.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-5		
Sample Info:	LCS 200-49894_2-A		
Lab Sample ID:	LCS 200-49894_2-A		



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Client Sample ID: OC-SB-528-1.0/3.0-XXX MS Lab Sample ID: 480-29598-8 MS

Matrix: Solid Lab File ID: 26dec121110-r071.d

Analysis Method: Organotins/GC Date Collected: 12/05/2012 14:05

Extraction Method: 3550C Date Extracted: 12/22/2012 08:12

Sample wt/vol: 29.67(g) Date Analyzed: 12/26/2012 12:54

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 1.5(uL) GC Column: RTX-35 ID: 0.32(mm)

% Moisture: 64.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 50011 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL00386	Tripentyltin	88		30-120

TestAmerica Burlington

Alkyl Tin Quantitation Report

Lab Sample Id: 480-29598-8 MS
Client Smp ID: OC-SB-528-1.0/3.0-X
Inj Date : 26-DEC-2012 12:54
Operator : RRM Inst ID: 2860_1.i
Smp Info : 480-29598-E-8-E MS
Misc Info : 480-29598-E-8-E MS
Comment :
Method : /var/chem/2860_1.i/121712_1/26DEC121110.b/OR560_RTX35.m
Meth Date : 27-Dec-2012 08:32 sld Quant Type: ISTD
Cal Date : 17-DEC-2012 16:37 Cal File: 17dec121447-r071.d
Als bottle: 1 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: SOIL
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

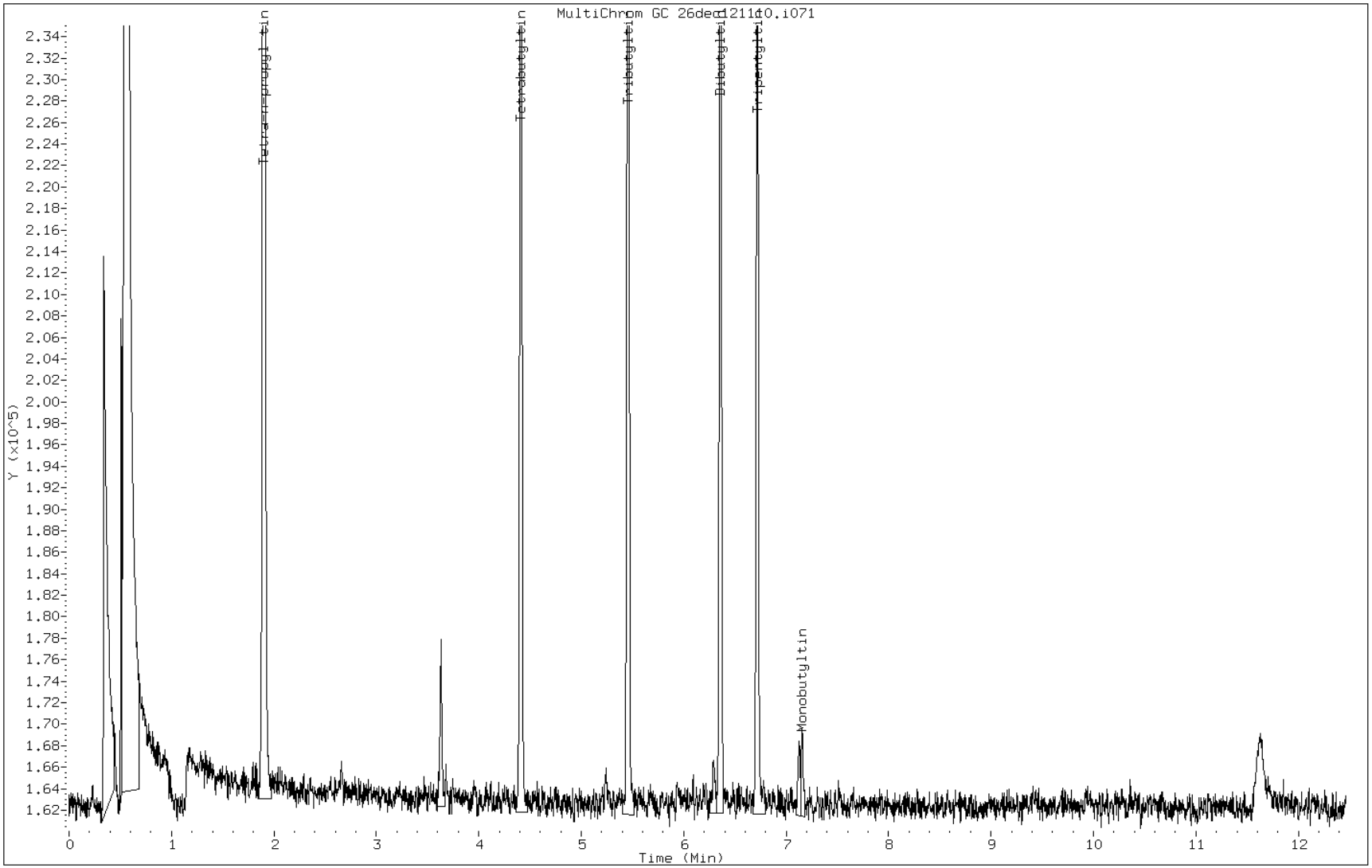
	RT	EXP RT (REL RT)	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	
*	1 Tetra-n-propyl tin					CAS #: 2176-98-9
	1.902	1.860 (1.000)	310059	500.000		
	2 Tetrabutyltin					CAS #: 1461-25-2
	4.411	4.391 (2.319)	160967	386.981	387.0	
	3 Tributyltin					CAS #: 688-73-3
	5.457	5.435 (2.869)	187835	399.361	399.4	
	4 Dibutyltin					CAS #: 1002-53-5
	6.360	6.329 (3.344)	164841	350.302	350.3	
$	5 Tripentyltin					CAS #: 3342-67-4
	6.719	6.690 (3.533)	132934	404.353	404.4	

RT	EXP RT	(REL RT)	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	
6 Monobutyltin					CAS #: 2406-65-7	
7.158	7.129	(3.746)	11258	24.8914	24.89	(aRM)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File:	26dec121110-r071.d	Date:	26-DEC-2012 12:54
Client ID:	OC-SB-528-1.0/3.0-X	Instrument:	2860_1.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-35		
Sample Info:	480-29598-E-8-E MS		
Lab Sample ID:	480-29598-8 MS		



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington
Job No.: 480-29598-1
SDG No.:
Client Sample ID: OC-SB-528-1.0/3.0-XXX MS
Lab Sample ID: 480-29598-8 MS
Matrix: Solid
Lab File ID: 26dec121110-r071.d
Analysis Method: Organotins/GC
Date Collected: 12/05/2012 14:05
Extraction Method: 3550C
Date Extracted: 12/22/2012 08:12
Sample wt/vol: 29.67(g)
Date Analyzed: 12/26/2012 12:54
Con. Extract Vol.: 1000(uL)
Dilution Factor: 1
Injection Volume: 1.5(uL)
GC Column: RTX-5 ID: 0.32(mm)
% Moisture: 64.1
GPC Cleanup:(Y/N) N
Analysis Batch No.: 50011
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
688-73-3	Tributyltin	29.2		4.2	1.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL00386	Tripentyltin	68		30-120

TestAmerica Burlington

Alkyl Tin Quantitation Report

Lab Sample Id: 480-29598-8 MS
Client Smp ID: OC-SB-528-1.0/3.0-X
Inj Date : 26-DEC-2012 12:54
Operator : RRM Inst ID: 2860_2.i
Smp Info : 480-29598-E-8-E MS
Misc Info : 480-29598-E-8-E MS
Comment :
Method : /var/chem/2860_2.i/121712_1/26DEC121110.b/OR560_RTX5.m
Meth Date : 27-Dec-2012 08:33 sld Quant Type: ISTD
Cal Date : 17-DEC-2012 16:37 Cal File: 17dec121447-r071.d
Als bottle: 1 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: SOIL
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

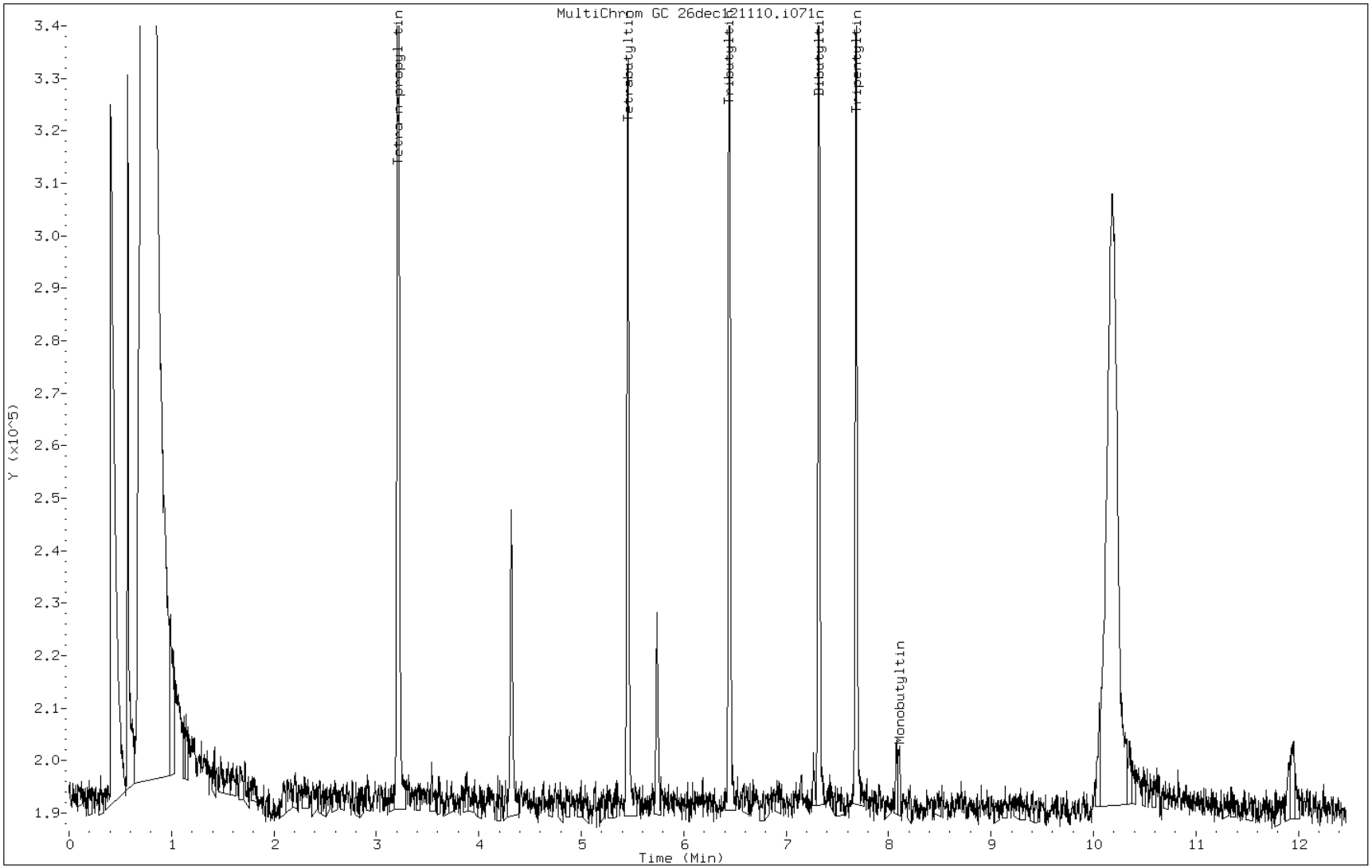
	RT	EXP RT (REL RT)	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	
*	1 Tetra-n-propyl tin					CAS #: 2176-98-9
	3.212	3.181 (1.000)	369349	500.000		
	2 Tetrabutyltin					CAS #: 1461-25-2
	5.455	5.433 (1.698)	211883	349.909	349.9	
	3 Tributyltin					CAS #: 688-73-3
	6.446	6.422 (2.007)	251389	310.479	310.5	
	4 Dibutyltin					CAS #: 1002-53-5
	7.319	7.291 (2.279)	253166	281.919	281.9	
$	5 Tripentyltin					CAS #: 3342-67-4
	7.683	7.656 (2.392)	210634	314.479	314.5	

RT	EXP RT	(REL RT)	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	
6 Monobutyltin					CAS #: 2406-65-7	
8.106	8.075	(2.515)	18995	19.2383	19.24	(aRM)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File:	26dec121110-r071.d	Date:	26-DEC-2012 12:54
Client ID:	OC-SB-528-1.0/3.0-X	Instrument:	2860_2.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-5		
Sample Info:	480-29598-E-8-E MS		
Lab Sample ID:	480-29598-8 MS		



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Client Sample ID: OC-SB-528-1.0/3.0-XXX MSD Lab Sample ID: 480-29598-8 MSD

Matrix: Solid Lab File ID: 26dec121110-r061.d

Analysis Method: Organotins/GC Date Collected: 12/05/2012 14:05

Extraction Method: 3550C Date Extracted: 12/22/2012 08:12

Sample wt/vol: 29.85(g) Date Analyzed: 12/26/2012 12:37

Con. Extract Vol.: 1000(uL) Dilution Factor: 1

Injection Volume: 1.5(uL) GC Column: RTX-35 ID: 0.32(mm)

% Moisture: 64.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 50011 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL00386	Tripentyltin	83		30-120

TestAmerica Burlington

Alkyl Tin Quantitation Report

Lab Sample Id: 480-29598-8 MSD
Client Smp ID: OC-SB-528-1.0/3.0-X
Inj Date : 26-DEC-2012 12:37
Operator : RRM Inst ID: 2860_1.i
Smp Info : 480-29598-E-8-D MSD
Misc Info : 480-29598-E-8-D MSD
Comment :
Method : /var/chem/2860_1.i/121712_1/26DEC121110.b/OR560_RTX35.m
Meth Date : 27-Dec-2012 08:32 sld Quant Type: ISTD
Cal Date : 17-DEC-2012 16:37 Cal File: 17dec121447-r071.d
Als bottle: 1 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: SOIL
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

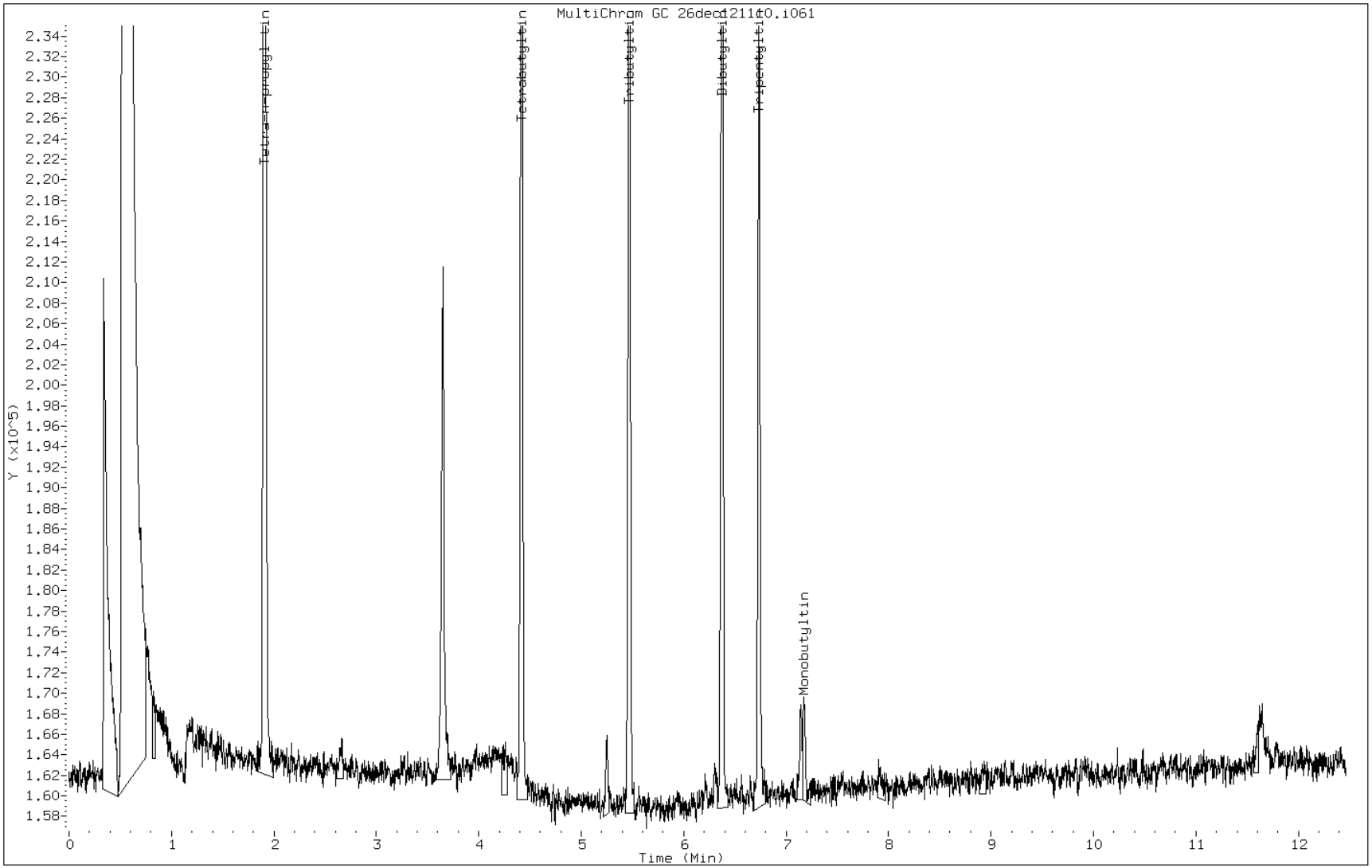
Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	
*	1 Tetra-n-propyl tin					CAS #: 2176-98-9
	1.909	1.860 (1.000)	309672	500.000		
	2 Tetrabutyltin					CAS #: 1461-25-2
	4.416	4.391 (2.314)	169910	408.991	409.0	
	3 Tributyltin					CAS #: 688-73-3
	5.469	5.435 (2.865)	177520	377.901	377.9	
	4 Dibutyltin					CAS #: 1002-53-5
	6.373	6.329 (3.339)	174183	370.617	370.6	
$	5 Tripentyltin					CAS #: 3342-67-4
	6.734	6.690 (3.528)	126002	383.746	383.7	

RT	EXP RT	(REL RT)	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)
6 Monobutyltin					CAS #: 2406-65-7
7.173	7.129	(3.758)	18391	40.7133	40.71

Data File:	26dec121110-r061.d	Date:	26-DEC-2012 12:37
Client ID:	OC-SB-528-1.0/3.0-X	Instrument:	2860_1.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-35		
Sample Info:	480-29598-E-8-D MSD		
Lab Sample ID:	480-29598-8 MSD		



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington
Job No.: 480-29598-1
SDG No.:
Client Sample ID: OC-SB-528-1.0/3.0-XXX MSD
Lab Sample ID: 480-29598-8 MSD
Matrix: Solid
Lab File ID: 26dec121110-r061.d
Analysis Method: Organotins/GC
Date Collected: 12/05/2012 14:05
Extraction Method: 3550C
Date Extracted: 12/22/2012 08:12
Sample wt/vol: 29.85(g)
Date Analyzed: 12/26/2012 12:37
Con. Extract Vol.: 1000(uL)
Dilution Factor: 1
Injection Volume: 1.5(uL)
GC Column: RTX-5 ID: 0.32(mm)
% Moisture: 64.1
GPC Cleanup:(Y/N) N
Analysis Batch No.: 50011
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
688-73-3	Tributyltin	29.7		4.2	1.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL00386	Tripentyltin	65		30-120

TestAmerica Burlington

Alkyl Tin Quantitation Report

Lab Sample Id: 480-29598-8 MSD
Client Smp ID: OC-SB-528-1.0/3.0-X
Inj Date : 26-DEC-2012 12:37
Operator : RRM Inst ID: 2860_2.i
Smp Info : 480-29598-E-8-D MSD
Misc Info : 480-29598-E-8-D MSD
Comment :
Method : /var/chem/2860_2.i/121712_1/26DEC121110.b/OR560_RTX5.m
Meth Date : 27-Dec-2012 08:33 sld Quant Type: ISTD
Cal Date : 17-DEC-2012 16:37 Cal File: 17dec121447-r071.d
Als bottle: 1 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: SOIL
Processing Host: chemsvr5

Concentration Formula: Amt * DF * Vi/Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vi	1.50000	Volume injected (uL)

Cpnd Variable Local Compound Variable

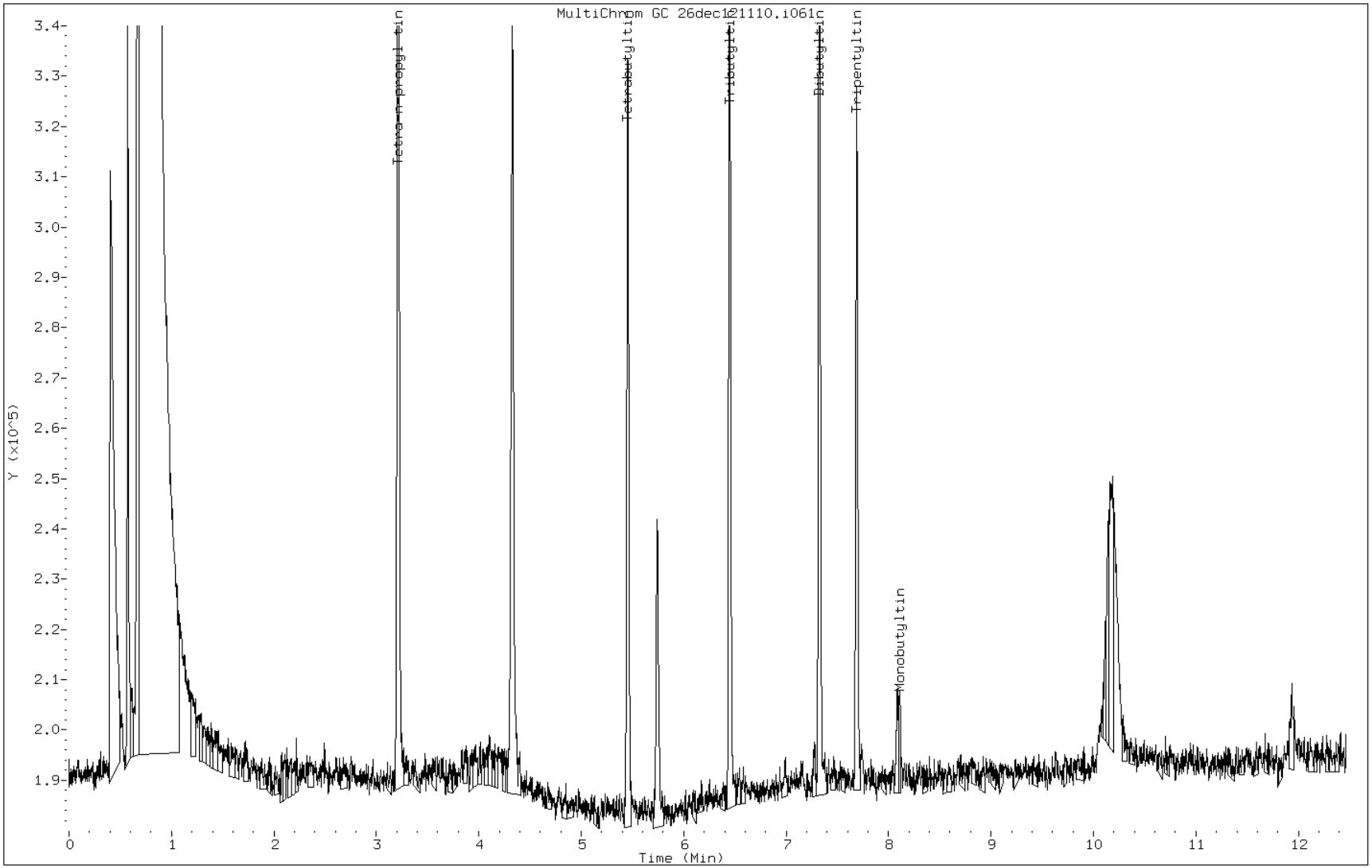
	RT	EXP RT (REL RT)	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	
*	1 Tetra-n-propyl tin				CAS #: 2176-98-9	
	3.212	3.181 (1.000)	360839	500.000		
	2 Tetrabutyltin				CAS #: 1461-25-2	
	5.453	5.433 (1.698)	211845	358.097	358.1	(M)
	3 Tributyltin				CAS #: 688-73-3	
	6.448	6.422 (2.008)	251107	317.445	317.4	
	4 Dibutyltin				CAS #: 1002-53-5	
	7.324	7.291 (2.280)	275131	313.604	313.6	
$	5 Tripentyltin				CAS #: 3342-67-4	
	7.690	7.656 (2.394)	195229	298.353	298.4	

RT	EXP RT	(REL RT)	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	
6 Monobutyltin					CAS #: 2406-65-7	
8.111	8.075	(2.518)	27357	28.3609	28.36	(aRM)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File:	26dec121110-r061.d	Date:	26-DEC-2012 12:37
Client ID:	OC-SB-528-1.0/3.0-X	Instrument:	2860_2.i
Operator:	RRM	Inj Vol:	1.5
Column Type:		Diameter:	0.32
Stationary Phase:	RTX-5		
Sample Info:	480-29598-E-8-D MSD		
Lab Sample ID:	480-29598-8 MSD		



GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Instrument ID: 2860.i Start Date: 12/11/2012 18:18

Analysis Batch Number: 49433 End Date: 12/11/2012 19:59

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 200-49433/1		12/11/2012 18:18	1	11dec121742-r03 1.d	RTX-35 0.32(mm)
IC 200-49433/1		12/11/2012 18:18	1	11dec121742-r03 1.d	RTX-5 0.32(mm)
IC 200-49433/2		12/11/2012 18:35	1	11dec121742-r04 1.d	RTX-35 0.32(mm)
IC 200-49433/2		12/11/2012 18:35	1	11dec121742-r04 1.d	RTX-5 0.32(mm)
ICRT 200-49433/3		12/11/2012 18:52	1	11dec121742-r05 1.d	RTX-35 0.32(mm)
ICRT 200-49433/3		12/11/2012 18:52	1	11dec121742-r05 1.d	RTX-5 0.32(mm)
IC 200-49433/4		12/11/2012 19:09	1	11dec121742-r06 1.d	RTX-35 0.32(mm)
IC 200-49433/4		12/11/2012 19:09	1	11dec121742-r06 1.d	RTX-5 0.32(mm)
IC 200-49433/5		12/11/2012 19:26	1	11dec121742-r07 1.d	RTX-35 0.32(mm)
IC 200-49433/5		12/11/2012 19:26	1	11dec121742-r07 1.d	RTX-5 0.32(mm)
ZZZZZ		12/11/2012 19:42	1		RTX-35 0.32(mm)
ZZZZZ		12/11/2012 19:42	1		RTX-5 0.32(mm)
ICV 200-49433/7		12/11/2012 19:59	1	11dec121742-r09 1.d	RTX-35 0.32(mm)
ICV 200-49433/7		12/11/2012 19:59	1	11dec121742-r09 1.d	RTX-5 0.32(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Instrument ID: 2860.i Start Date: 12/11/2012 20:16

Analysis Batch Number: 49448 End Date: 12/12/2012 03:18

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		12/11/2012 20:16	1		RTX-35 0.32(mm)
ZZZZZ		12/11/2012 20:16	1		RTX-5 0.32(mm)
ZZZZZ		12/11/2012 20:33	1		RTX-35 0.32(mm)
ZZZZZ		12/11/2012 20:33	1		RTX-5 0.32(mm)
ZZZZZ		12/11/2012 20:50	1		RTX-35 0.32(mm)
ZZZZZ		12/11/2012 20:50	1		RTX-5 0.32(mm)
ZZZZZ		12/11/2012 21:07	1		RTX-35 0.32(mm)
ZZZZZ		12/11/2012 21:07	1		RTX-5 0.32(mm)
ZZZZZ		12/11/2012 21:24	1		RTX-35 0.32(mm)
ZZZZZ		12/11/2012 21:24	1		RTX-5 0.32(mm)
ZZZZZ		12/11/2012 21:41	1		RTX-35 0.32(mm)
ZZZZZ		12/11/2012 21:41	1		RTX-5 0.32(mm)
ZZZZZ		12/11/2012 21:57	1		RTX-35 0.32(mm)
ZZZZZ		12/11/2012 21:57	1		RTX-5 0.32(mm)
CCV 200-49448/8		12/11/2012 22:14	1	11dec121807-r08 1.d	RTX-35 0.32(mm)
CCV 200-49448/8		12/11/2012 22:14	1	11dec121807-r08 1.d	RTX-5 0.32(mm)
MB 200-49268/1-A		12/11/2012 22:31	1	11dec121807-r09 1.d	RTX-35 0.32(mm)
MB 200-49268/1-A		12/11/2012 22:31	1	11dec121807-r09 1.d	RTX-5 0.32(mm)
LCS 200-49268/2-A		12/11/2012 22:48	1	11dec121807-r10 1.d	RTX-35 0.32(mm)
LCS 200-49268/2-A		12/11/2012 22:48	1	11dec121807-r10 1.d	RTX-5 0.32(mm)
480-29598-7	OC-SB-528-0.0/1.0-XXX	12/11/2012 23:05	1	11dec121807-r11 1.d	RTX-35 0.32(mm)
480-29598-7	OC-SB-528-0.0/1.0-XXX	12/11/2012 23:05	1	11dec121807-r11 1.d	RTX-5 0.32(mm)
ZZZZZ		12/11/2012 23:22	1		RTX-35 0.32(mm)
ZZZZZ		12/11/2012 23:22	1		RTX-5 0.32(mm)
480-29598-11	OC-DUP-2	12/11/2012 23:39	1	11dec121807-r13 1.d	RTX-35 0.32(mm)
480-29598-11	OC-DUP-2	12/11/2012 23:39	1	11dec121807-r13 1.d	RTX-5 0.32(mm)
ZZZZZ		12/11/2012 23:55	1		RTX-35 0.32(mm)
ZZZZZ		12/11/2012 23:55	1		RTX-5 0.32(mm)
ZZZZZ		12/12/2012 00:12	1		RTX-35 0.32(mm)
ZZZZZ		12/12/2012 00:12	1		RTX-5 0.32(mm)
ZZZZZ		12/12/2012 00:29	1		RTX-35 0.32(mm)
ZZZZZ		12/12/2012 00:29	1		RTX-5 0.32(mm)
ZZZZZ		12/12/2012 00:46	1		RTX-35 0.32(mm)
ZZZZZ		12/12/2012 00:46	1		RTX-5 0.32(mm)
ZZZZZ		12/12/2012 01:03	1		RTX-35 0.32(mm)
ZZZZZ		12/12/2012 01:03	1		RTX-5 0.32(mm)
CCV 200-49448/19		12/12/2012 01:20	1	11dec121807-r19 1.d	RTX-35 0.32(mm)
CCV 200-49448/19		12/12/2012 01:20	1	11dec121807-r19 1.d	RTX-5 0.32(mm)
ZZZZZ		12/12/2012 01:37	1		RTX-35 0.32(mm)
ZZZZZ		12/12/2012 01:37	1		RTX-5 0.32(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Instrument ID: 2860.i Start Date: 12/11/2012 20:16

Analysis Batch Number: 49448 End Date: 12/12/2012 03:18

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		12/12/2012 01:53	1		RTX-35 0.32(mm)
ZZZZZ		12/12/2012 01:53	1		RTX-5 0.32(mm)
ZZZZZ		12/12/2012 02:10	1		RTX-35 0.32(mm)
ZZZZZ		12/12/2012 02:10	1		RTX-5 0.32(mm)
ZZZZZ		12/12/2012 02:27	1		RTX-35 0.32(mm)
ZZZZZ		12/12/2012 02:27	1		RTX-5 0.32(mm)
ZZZZZ		12/12/2012 02:44	1		RTX-35 0.32(mm)
ZZZZZ		12/12/2012 02:44	1		RTX-5 0.32(mm)
ZZZZZ		12/12/2012 03:01	1		RTX-35 0.32(mm)
ZZZZZ		12/12/2012 03:01	1		RTX-5 0.32(mm)
CCV 200-49448/26		12/12/2012 03:18	1		RTX-35 0.32(mm)
CCV 200-49448/26		12/12/2012 03:18	1		RTX-5 0.32(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Instrument ID: 2860.i Start Date: 12/17/2012 15:29

Analysis Batch Number: 49749 End Date: 12/17/2012 17:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 200-49749/1		12/17/2012 15:29	1	17dec121447-r03 1.d	RTX-35 0.32(mm)
IC 200-49749/1		12/17/2012 15:29	1	17dec121447-r03 1.d	RTX-5 0.32(mm)
IC 200-49749/2		12/17/2012 15:46	1	17dec121447-r04 1.d	RTX-35 0.32(mm)
IC 200-49749/2		12/17/2012 15:46	1	17dec121447-r04 1.d	RTX-5 0.32(mm)
ICRT 200-49749/3		12/17/2012 16:03	1	17dec121447-r05 1.d	RTX-35 0.32(mm)
ICRT 200-49749/3		12/17/2012 16:03	1	17dec121447-r05 1.d	RTX-5 0.32(mm)
IC 200-49749/4		12/17/2012 16:20	1	17dec121447-r06 1.d	RTX-35 0.32(mm)
IC 200-49749/4		12/17/2012 16:20	1	17dec121447-r06 1.d	RTX-5 0.32(mm)
IC 200-49749/5		12/17/2012 16:37	1	17dec121447-r07 1.d	RTX-35 0.32(mm)
IC 200-49749/5		12/17/2012 16:37	1	17dec121447-r07 1.d	RTX-5 0.32(mm)
ZZZZZ		12/17/2012 16:54	1		RTX-35 0.32(mm)
ZZZZZ		12/17/2012 16:54	1		RTX-5 0.32(mm)
ICV 200-49749/7		12/17/2012 17:11	1	17dec121447-r09 1.d	RTX-35 0.32(mm)
ICV 200-49749/7		12/17/2012 17:11	1	17dec121447-r09 1.d	RTX-5 0.32(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Instrument ID: 2860.i Start Date: 12/26/2012 11:13

Analysis Batch Number: 50011 End Date: 12/26/2012 17:23

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCB 200-50011/1		12/26/2012 11:13	1	26dec121110-r01 1.d	RTX-35 0.32(mm)
CCB 200-50011/1		12/26/2012 11:13	1	26dec121110-r01 1.d	RTX-5 0.32(mm)
CCVRT 200-50011/2		12/26/2012 11:30	1	26dec121110-r02 1.d	RTX-35 0.32(mm)
CCVRT 200-50011/2		12/26/2012 11:30	1	26dec121110-r02 1.d	RTX-5 0.32(mm)
MB 200-49894/1-A		12/26/2012 11:46	1	26dec121110-r03 1.d	RTX-35 0.32(mm)
MB 200-49894/1-A		12/26/2012 11:46	1	26dec121110-r03 1.d	RTX-5 0.32(mm)
LCS 200-49894/2-A		12/26/2012 12:03	1	26dec121110-r04 1.d	RTX-35 0.32(mm)
LCS 200-49894/2-A		12/26/2012 12:03	1	26dec121110-r04 1.d	RTX-5 0.32(mm)
480-29598-8	OC-SB-528-1.0/3.0-XXX	12/26/2012 12:20	1	26dec121110-r05 1.d	RTX-35 0.32(mm)
480-29598-8	OC-SB-528-1.0/3.0-XXX	12/26/2012 12:20	1	26dec121110-r05 1.d	RTX-5 0.32(mm)
480-29598-8 MSD	OC-SB-528-1.0/3.0-XXX MSD	12/26/2012 12:37	1	26dec121110-r06 1.d	RTX-35 0.32(mm)
480-29598-8 MSD	OC-SB-528-1.0/3.0-XXX MSD	12/26/2012 12:37	1	26dec121110-r06 1.d	RTX-5 0.32(mm)
480-29598-8 MS	OC-SB-528-1.0/3.0-XXX MS	12/26/2012 12:54	1	26dec121110-r07 1.d	RTX-35 0.32(mm)
480-29598-8 MS	OC-SB-528-1.0/3.0-XXX MS	12/26/2012 12:54	1	26dec121110-r07 1.d	RTX-5 0.32(mm)
ZZZZZ		12/26/2012 13:11	1		RTX-35 0.32(mm)
ZZZZZ		12/26/2012 13:11	1		RTX-5 0.32(mm)
ZZZZZ		12/26/2012 13:27	1		RTX-35 0.32(mm)
ZZZZZ		12/26/2012 13:27	1		RTX-5 0.32(mm)
ZZZZZ		12/26/2012 13:44	1		RTX-35 0.32(mm)
ZZZZZ		12/26/2012 13:44	1		RTX-5 0.32(mm)
ZZZZZ		12/26/2012 14:01	1		RTX-35 0.32(mm)
ZZZZZ		12/26/2012 14:01	1		RTX-5 0.32(mm)
ZZZZZ		12/26/2012 14:18	1		RTX-35 0.32(mm)
ZZZZZ		12/26/2012 14:18	1		RTX-5 0.32(mm)
CCV 200-50011/13		12/26/2012 14:35	1	26dec121110-r13 1.d	RTX-35 0.32(mm)
CCV 200-50011/13		12/26/2012 14:35	1	26dec121110-r13 1.d	RTX-5 0.32(mm)
ZZZZZ		12/26/2012 14:52	1		RTX-35 0.32(mm)
ZZZZZ		12/26/2012 14:52	1		RTX-5 0.32(mm)
ZZZZZ		12/26/2012 15:08	1		RTX-35 0.32(mm)
ZZZZZ		12/26/2012 15:08	1		RTX-5 0.32(mm)
ZZZZZ		12/26/2012 15:25	1		RTX-35 0.32(mm)
ZZZZZ		12/26/2012 15:25	1		RTX-5 0.32(mm)
ZZZZZ		12/26/2012 15:42	1		RTX-35 0.32(mm)
ZZZZZ		12/26/2012 15:42	1		RTX-5 0.32(mm)
ZZZZZ		12/26/2012 15:59	1		RTX-35 0.32(mm)
ZZZZZ		12/26/2012 15:59	1		RTX-5 0.32(mm)
ZZZZZ		12/26/2012 16:16	1		RTX-35 0.32(mm)
ZZZZZ		12/26/2012 16:16	1		RTX-5 0.32(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Instrument ID: 2860.i Start Date: 12/26/2012 11:13

Analysis Batch Number: 50011 End Date: 12/26/2012 17:23

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		12/26/2012 16:33	1		RTX-35 0.32(mm)
ZZZZZ		12/26/2012 16:33	1		RTX-5 0.32(mm)
ZZZZZ		12/26/2012 16:50	1		RTX-35 0.32(mm)
ZZZZZ		12/26/2012 16:50	1		RTX-5 0.32(mm)
ZZZZZ		12/26/2012 17:06	1		RTX-35 0.32(mm)
ZZZZZ		12/26/2012 17:06	1		RTX-5 0.32(mm)
CCV 200-50011/23		12/26/2012 17:23	1		RTX-35 0.32(mm)
CCV 200-50011/23		12/26/2012 17:23	1		RTX-5 0.32(mm)

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Batch Number: 49268 Batch Start Date: 12/10/12 18:10 Batch Analyst: Bourdeau, Timothy P

Batch Method: 3550C Batch End Date: 12/11/12 00:44

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EXCOPPERACT 00026	EXHexMagBr 00004	EXTinMTXSPi 00009	EXTINSUi 00010
MB 200-49268/1		3550C, Organotins/GC		30.00 g	1000 uL	0.5 g	800 uL		500 uL
LCS 200-49268/2		3550C, Organotins/GC		30.00 g	1000 uL	0.5 g	800 uL	500 uL	500 uL
480-29598-B-7	OC-SB-528-0.0/1.0-XXX	3550C, Organotins/GC	T	30.42 g	1000 uL	0.5 g	800 uL		500 uL
480-29598-A-11	OC-DUP-2	3550C, Organotins/GC	T	30.44 g	1000 uL	0.5 g	800 uL		500 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	ME1:1HCLw 00016					
MB 200-49268/1		3550C, Organotins/GC		10 mL					
LCS 200-49268/2		3550C, Organotins/GC		10 mL					
480-29598-B-7	OC-SB-528-0.0/1.0-XXX	3550C, Organotins/GC	T	10 mL					
480-29598-A-11	OC-DUP-2	3550C, Organotins/GC	T	10 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.

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Batch Number: 49268 Batch Start Date: 12/10/12 18:10 Batch Analyst: Bourdeau, Timothy P

Batch Method: 3550C Batch End Date: 12/11/12 00:44

Batch Notes	
Batch Comment	Tin Catridge # 0006157134, 0006154456
Concentration End Time	00:40
Concentration Start Time	23:40
Person's name who did the concentration	TPB
Copper Lot #	436805
Exchange Solvent Lot #	414697
Exchange Solvent Name	Hexane
Na2SO4 Lot Number	414702
Nominal Amount Used	30 g
Prep Solvent Lot #	414697/406239
Prep Solvent Name	Hexane/Tropolone
Prep Solvent Volume Used	300 mL
Person's name who did the prep	TPB
Person's name who witnessed reagent drop	MAP
Analyst who added reagent	TPB
SU Reagent Drop	TPB
SU Reagent Drop Witness	MAP
Vendor of Reagent used	Avantor/Acros

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Batch Number: 49894 Batch Start Date: 12/22/12 08:12 Batch Analyst: Blow, Jessica A

Batch Method: 3550C Batch End Date: 12/24/12 14:55

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EXHexMagBr 00004	EXTinMTXSPi 00009	EXTINSUi 00010	
MB 200-49894/1		3550C, Organotins/GC		30.10 g	1000 uL	0.8 mL		0.5 mL	
LCS 200-49894/2		3550C, Organotins/GC		29.96 g	1000 uL	0.8 mL	0.5 mL	0.5 mL	
480-29598-E-8	OC-SB-528-1.0/3.0-XXX	3550C, Organotins/GC	T	29.37 g	1000 uL	0.8 mL		0.5 mL	
480-29598-E-8 MSD	OC-SB-528-1.0/3.0-XXX	3550C, Organotins/GC	T	29.85 g	1000 uL	0.8 mL	0.5 mL	0.5 mL	
480-29598-E-8 MS	OC-SB-528-1.0/3.0-XXX	3550C, Organotins/GC	T	29.67 g	1000 uL	0.8 mL	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.

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Burlington Job No.: 480-29598-1

SDG No.:

Batch Number: 49894 Batch Start Date: 12/22/12 08:12 Batch Analyst: Blow, Jessica A

Batch Method: 3550C Batch End Date: 12/24/12 14:55

Batch Notes	
Acid used for Clean Up Reagent	1:1 HCl:H2O Lot# 430397
Balance ID	M20915
Batch Comment	Derivitized on 12/24/12 by DI
Concentration End Time	1223
Concentration Start Time	1120
Person's name who did the concentration	JAB
Copper Lot #	436805
Exchange Solvent Lot #	430738
Exchange Solvent Name	HEXANE
Florisil Lot #	Tin Cartridge Lot# 6157134
Na2SO4 Lot Number	422981
Nominal Amount Used	30 g
Prep Solvent Lot #	440867/430738
Prep Solvent Name	0.05% tropolone/ Hexane
Prep Solvent Volume Used	300 mL
Person's name who did the prep	JAB/ MLT
Person's name who witnessed reagent drop	MLT
Analyst who added reagent	JAB
Vendor of Reagent used	avantor

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: 480-29598-1

SDG No.:

Project: Olin Chemical Wilmington MA Superfund

Client Sample ID	Lab Sample ID
OC-SB-528-0.0/1.0-XXX	480-29598-7
OC-SB-528-1.0/3.0-XXX	480-29598-8
OC-DUP-2	480-29598-11

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: OC-SB-528-0.0/1.0-XXX
Lab Sample ID: 480-29598-7
Lab Name: TestAmerica Buffalo
Job No.: 480-29598-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/05/2012 14:00
Reporting Basis: DRY
Date Received: 12/05/2012 18:15
% Solids: 27.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-31-5	Tin	7.5	8.0	1.7	mg/Kg	J	^	1	6010

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: OC-SB-528-1.0/3.0-XXX
Lab Sample ID: 480-29598-8
Lab Name: TestAmerica Buffalo
Job No.: 480-29598-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/05/2012 14:05
Reporting Basis: DRY
Date Received: 12/05/2012 18:15
% Solids: 41.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-31-5	Tin	2.4	5.2	1.1	mg/Kg	J	^	1	6010

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: OC-DUP-2
Lab Sample ID: 480-29598-11
Lab Name: TestAmerica Buffalo
Job No.: 480-29598-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/05/2012 00:00
Reporting Basis: DRY
Date Received: 12/05/2012 18:15
% Solids: 46.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-31-5	Tin	2.1	4.3	0.93	mg/Kg	J	^	1	6010

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-29598-1

SDG No.:

ICV Source: MEI_04_ICV_00152 Concentration Units: mg/L

CCV Source: MEI_09_CCV_00090

Analyte	ICV 480-97273/5 12/21/2012 14:10				CCV 480-97273/12 12/21/2012 19:23				CCV 480-97273/21 12/21/2012 19:50			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Tin	0.379		0.375	101	0.524		0.500	105	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.: 480-29598-1

SDG No.:

ICV Source: MEI_04_ICV_00152 Concentration Units: mg/L

CCV Source: MEI_09_CCV_00090

Analyte	CCV 480-97273/33 12/21/2012 20:18											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Tin	0.515		0.500	103								

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.: 480-29598-1

SDG No.:

Method: 6010 Instrument ID: ICAP1

Lab Sample ID: CRI 480-97273/7 Concentration Units: mg/L

CRQL Check Standard Source: MEI_06_CRI_00045

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Tin	0.0100	0.00592	J ^	59	70-130

Lab Sample ID: CRI 480-97273/42 Concentration Units: mg/L

CRQL Check Standard Source: MEI_06_CRI_00045

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Tin	0.0100	0.00575	J ^	58	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.: 480-29598-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-97273/6 12/21/2012 14:12		CCB 480-97273/13 12/21/2012 19:25		CCB 480-97273/22 12/21/2012 19:52		CCB 480-97273/34 12/21/2012 20:20	
		Found	C	Found	C	Found	C	Found	C
Tin	0.010	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-29598-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 480-97077/1-A

Instrument Code: ICAP1 Batch No.: 97273

CAS No.	Analyte	Concentration	C	Q	Method
7440-31-5	Tin	ND		^	6010MCP

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-29598-1

SDG No.:

Lab Sample ID: ICSA 480-97273/8 Instrument ID: ICAP1

Lab File ID: I1122112A-7.asc ICS Source: MEI_07_ICSA_00040

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Tin		**0.0009**	
Aluminum	*500*	*484*	*97*
Antimony		*-0.0066*	
Arsenic		*0.0029*	
Barium		*0.0004*	
Beryllium		*0.0000*	
Boron		*-0.0006*	
Cadmium		*-0.0006*	
Calcium	*500*	*463*	*93*
Chromium		*0.0031*	
Cobalt		*-0.0008*	
Copper		*0.0022*	
Iron	*200*	*184*	*92*
Lead		*0.0005*	
Lithium		*0.0025*	
Magnesium	*500*	*506*	*101*
Manganese		*0.0015*	
Molybdenum		*-0.0005*	
Nickel		*0.0070*	
Potassium		*0.0075*	
Selenium		*0.0032*	
Silicon		*0.0163*	
Silver		*-0.0005*	
Sodium		*-0.0112*	
Strontium		*0.0055*	
Thallium		*-0.0021*	
Titanium		*0.0047*	
Vanadium		*-0.0025*	
Zinc		*0.0023*	

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.: 480-29598-1

SDG No.:

Lab Sample ID: ICSAB 480-97273/9 Instrument ID: ICAP1

Lab File ID: I1122112A-7.asc ICS Source: MEI_08_ICSAB_00054

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Tin		**0.0004**	
Aluminum	*500*	*493*	*99*
Antimony	*0.600*	*0.602*	*100*
Arsenic	*0.100*	*0.106*	*106*
Barium	*0.500*	*0.497*	*99*
Beryllium	*0.500*	*0.495*	*99*
Boron		*0.0004*	
Cadmium	*1.00*	*1.02*	*102*
Calcium	*500*	*462*	*92*
Chromium	*0.500*	*0.493*	*99*
Cobalt	*0.500*	*0.494*	*99*
Copper	*0.500*	*0.533*	*107*
Iron	*100*	*91.8*	*92*
Lead	*0.0500*	*0.0546*	*109*
Lithium	*0.500*	*0.522*	*104*
Magnesium	*500*	*519*	*104*
Manganese	*0.500*	*0.473*	*95*
Molybdenum		*0.0002*	
Nickel	*1.00*	*0.985*	*99*
Potassium		*0.0492*	
Selenium	*0.0500*	*0.0530*	*106*
Silicon	*1.00*	*1.05*	*105*
Silver	*0.200*	*0.217*	*109*
Sodium		*0.0565*	
Strontium	*0.500*	*0.497*	*99*
Thallium	*0.100*	*0.0975*	*97*
Titanium		*0.0043*	
Vanadium	*0.500*	*0.495*	*99*
Zinc	*1.00*	*0.986*	*99*

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.: 480-29598-1

SDG No.:

Lab Sample ID: ICSA 480-97273/43 Instrument ID: ICAP1

Lab File ID: I1122112A-7.asc ICS Source: MEI_07_ICSA_00040

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Tin		**0.0014**	
Aluminum	*500*	*496*	*99*
Antimony		*-0.0087*	
Arsenic		*0.0029*	
Barium		*0.0003*	
Beryllium		*0.0000*	
Boron		*-0.0011*	
Cadmium		*-0.0008*	
Calcium	*500*	*479*	*96*
Chromium		*0.0028*	
Cobalt		*-0.0008*	
Copper		*0.0030*	
Iron	*200*	*179*	*89*
Lead		*0.0018*	
Lithium		*0.0062*	
Magnesium	*500*	*502*	*100*
Manganese		*0.0014*	
Molybdenum		*-0.0003*	
Nickel		*0.0066*	
Potassium		*-0.0548*	
Selenium		*0.0050*	
Silicon		*0.0064*	
Silver		*0.0006*	
Sodium		*0.0052*	
Strontium		*0.0054*	
Thallium		*-0.0029*	
Titanium		*0.0044*	
Vanadium		*-0.0020*	
Zinc		*0.0018*	

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.: 480-29598-1

SDG No.:

Lab Sample ID: ICSAB 480-97273/44 Instrument ID: ICAP1

Lab File ID: I1122112A-7.asc ICS Source: MEI_08_ICSAB_00054

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Tin		**0.0006**	
Aluminum	*500*	*508*	*102*
Antimony	*0.600*	*0.605*	*101*
Arsenic	*0.100*	*0.109*	*109*
Barium	*0.500*	*0.515*	*103*
Beryllium	*0.500*	*0.493*	*99*
Boron		*0.0010*	
Cadmium	*1.00*	*1.03*	*103*
Calcium	*500*	*475*	*95*
Chromium	*0.500*	*0.491*	*98*
Cobalt	*0.500*	*0.511*	*102*
Copper	*0.500*	*0.540*	*108*
Iron	*100*	*89.2*	*89*
Lead	*0.0500*	*0.0545*	*109*
Lithium	*0.500*	*0.540*	*108*
Magnesium	*500*	*522*	*104*
Manganese	*0.500*	*0.478*	*96*
Molybdenum		*-0.0001*	
Nickel	*1.00*	*1.00*	*100*
Potassium		*-0.0830*	
Selenium	*0.0500*	*0.0629*	*126*
Silicon	*1.00*	*0.995*	*100*
Silver	*0.200*	*0.217*	*109*
Sodium		*0.0840*	
Strontium	*0.500*	*0.503*	*101*
Thallium	*0.100*	*0.0964*	*96*
Titanium		*0.0041*	
Vanadium	*0.500*	*0.487*	*97*
Zinc	*1.00*	*0.973*	*97*

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-SB-528-1.0/3.0-XXX MS
Lab ID: 480-29598-8 MS
Lab Name: TestAmerica Buffalo
Job No.: 480-29598-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 35.9

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Tin	106		2.4	J	118	88	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-SB-528-1.0/3.0-XXX MSD
Lab ID: 480-29598-8 MSD
Lab Name: TestAmerica Buffalo
Job No.: 480-29598-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 35.9

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Tin	103		106	95	75-125	3	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-SB-528-1.0/3.0-XXX PDS Lab ID: 480-29598-8 PDS

Lab Name: TestAmerica Buffalo Job No.: 480-29598-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Tin	107		2.4	J	105	100	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 480-97077/2-A

Lab Name: TestAmerica Buffalo Job No.: 480-29598-1

Sample Matrix: Solid LCS Source: MED_SRM_D078_00003

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Tin	103	100		96.9	79.2	121.4	^	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 480-97077/3-A

Lab Name: TestAmerica Buffalo Job No.: 480-29598-1

Sample Matrix: Solid LCS Source: MED_SRM_D078_00003

Analyte	(SDR)	C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Tin	92.8		103	90.2	79.2-12	7	20	^	6010

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: 480-29598-8

SDG No:

Lab Name: TestAmerica Buffalo Job No: 480-29598-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Tin	2.4	J	ND		NC	^	6010

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: 480-29598-1

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)
Tin	189.989	2	0.43

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-29598-1

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)
Tin	189.989	0.01	0.00505

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-29598-1

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: 480-29598-1

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: 480-29598-1

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: 480-29598-1

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														

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-29598-1

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: 480-29598-1

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

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo Job No: 480-29598-1

SDG No.:

Instrument ID: ICAP1 Date: 07/24/2012 11:44

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Tin	15	5	6010

FORM XI - IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-29598-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 480-97077/1-A	12/21/2012 12:30	97077	+0.4794		50
LCSSRM 480-97077/2-A	12/21/2012 12:30	97077	+0.4994		50
LCDSRM 480-97077/3-A	12/21/2012 12:30	97077	+0.5007		50
480-29598-7	12/21/2012 12:30	97077	+0.4634		50
480-29598-8	12/21/2012 12:30	97077	+0.4662		50
480-29598-8 MS	12/21/2012 12:30	97077	+0.4741		50
480-29598-8 MSD	12/21/2012 12:30	97077	+0.5284		50
480-29598-11	12/21/2012 12:30	97077	+0.4994		50

FORM XII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-29598-1

SDG No.:

Instrument ID: ICAP1 Method: 6010

Start Date: 12/21/2012 14:01 End Date: 12/21/2012 21:00

Lab Sample ID	D/F	Type	Time	Analytes																			
				Sn																			
IC 480-97273/1			14:01	X																			
IC 480-97273/2			14:04	X																			
IC 480-97273/3			14:06	X																			
IC 480-97273/4			14:08	X																			
ICV 480-97273/5	1		14:10	X																			
ICB 480-97273/6	1		14:12	X																			
CRI 480-97273/7	1		14:15	X																			
ICSA 480-97273/8	1		14:17	X																			
ICSAB 480-97273/9	1		14:26	X																			
CCV 480-97273/10			14:28																				
CCB 480-97273/11			14:30																				
CCV 480-97273/12	1		19:23	X																			
CCB 480-97273/13	1		19:25	X																			
MB 480-97077/1-A	1	T	19:34	X																			
LCSSRM 480-97077/2-A	1	T	19:36	X																			
LCDSRM 480-97077/3-A	1	T	19:39	X																			
480-29598-7	1	T	19:41	X																			
480-29598-8	1	T	19:43	X																			
480-29598-8 SD	5	T	19:46	X																			
480-29598-8 PDS	1	T	19:48	X																			
CCV 480-97273/21	1		19:50	X																			
CCB 480-97273/22	1		19:52	X																			
480-29598-8 MS	1	T	19:55	X																			
480-29598-8 MSD	1	T	19:57	X																			
480-29598-11	1	T	20:00	X																			
ZZZZZZ			20:02																				
ZZZZZZ			20:04																				
ZZZZZZ			20:07																				
ZZZZZZ			20:09																				
ZZZZZZ			20:11																				
ZZZZZZ			20:13																				
ZZZZZZ			20:16																				
CCV 480-97273/33	1		20:18	X																			
CCB 480-97273/34	1		20:20	X																			
ZZZZZZ			20:23																				
ZZZZZZ			20:25																				
ZZZZZZ			20:28																				
ZZZZZZ			20:30																				
ZZZZZZ			20:32																				
CCV 480-97273/40			20:46																				
CCB 480-97273/41			20:49																				
CRI 480-97273/42	1		20:51	X																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-29598-1

SDG No.:

Instrument ID: ICAP1 Method: 6010

Start Date: 12/21/2012 14:01 End Date: 12/21/2012 21:00

Lab Sample ID	D/F	Type	Time	Analytes																			
				Sn																			
ICSA 480-97273/43	1		20:54	X																			
ICSAB 480-97273/44	1		20:56	X																			
CCV 480-97273/45			20:58																				
CCB 480-97273/46			21:00																				

Prep Types
T = Total/NA

Run File: I1122112A Instrument: ICAP1

Analyst: MDM Data Review: MDM 12/24/12

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: 1080479

Seq#	Run File ID	Sample ID	Date / Time		Type
1	I1122112A	IC-1118274	12/21/2012	2:01:47PM	Standard
2	I1122112A	IC-1112371	12/21/2012	2:04:04PM	Standard
3	I1122112A	IC-1112370	12/21/2012	2:06:13PM	Standard
4	I1122112A	IC-1112366	12/21/2012	2:08:27PM	Standard
5	I1122112A	ICV-1120773	12/21/2012	2:10:39PM	QC
6	I1122112A	ICB-1118274	12/21/2012	2:12:49PM	QC
7	I1122112A	CRI-1107665	12/21/2012	2:15:05PM	QC
8	I1122112A	ICSA-1101769	12/21/2012	2:17:22PM	QC
9	I1122112A	ICSAB-1086099	12/21/2012	2:19:48PM	QC
10	I1122112A	CCV-1107667	12/21/2012	2:22:06PM	QC
11	I1122112A	ICSAB-1086099	12/21/2012	2:26:14PM	QC
12	I1122112A	CCV-1107667	12/21/2012	2:28:36PM	QC
13	I1122112A	CCB-1118274	12/21/2012	2:30:49PM	QC
14	I1122112A	MB 480-97024/1-A	12/21/2012	2:33:06PM	Unknown
15	I1122112A	LCS 480-97024/2-A	12/21/2012	2:35:22PM	Unknown
16	I1122112A	480-30114-C-2-C	12/21/2012	2:37:35PM	Unknown
17	I1122112A	480-30115-A-2-B	12/21/2012	2:39:53PM	Unknown
18	I1122112A	480-30181-D-1-B	12/21/2012	2:42:37PM	Unknown
19	I1122112A	480-30205-F-1-C	12/21/2012	2:44:57PM	Unknown
20	I1122112A	480-30207-E-5-B	12/21/2012	2:47:15PM	Unknown
21	I1122112A	CCV	12/21/2012	2:49:32PM	QC
22	I1122112A	CCB	12/21/2012	2:51:48PM	QC
23	I1122112A	480-30250-E-7-D	12/21/2012	2:54:07PM	Unknown
24	I1122112A	480-30250-E-8-D	12/21/2012	2:56:19PM	Unknown
25	I1122112A	480-30138-B-2-B	12/21/2012	2:58:42PM	Unknown
26	I1122112A	480-30630-F-1-A	12/21/2012	3:00:58PM	Unknown
27	I1122112A	480-30630-F-1-A SD@5	12/21/2012	3:03:11PM	Unknown
28	I1122112A	480-30630-F-1-A PDS	12/21/2012	3:05:25PM	Unknown
29	I1122112A	480-30630-F-1-B MS	12/21/2012	3:07:36PM	Unknown
30	I1122112A	480-30630-F-1-C MSD	12/21/2012	3:09:47PM	Unknown
31	I1122112A	480-30428-E-4-D	12/21/2012	3:11:58PM	Unknown
32	I1122112A	480-30428-E-5-F	12/21/2012	3:14:08PM	Unknown
33	I1122112A	CCV	12/21/2012	3:16:27PM	QC
34	I1122112A	CCB	12/21/2012	3:18:41PM	QC
35	I1122112A	MB 480-97037/1-A	12/21/2012	3:21:00PM	Unknown
36	I1122112A	LCS 480-97037/2-A	12/21/2012	3:23:16PM	Unknown
37	I1122112A	480-30609-A-1-A	12/21/2012	3:25:27PM	Unknown
38	I1122112A	480-30609-A-2-A	12/21/2012	3:27:45PM	Unknown
39	I1122112A	480-30609-A-3-B	12/21/2012	3:30:01PM	Unknown
40	I1122112A	480-30607-E-1-B	12/21/2012	3:32:19PM	Unknown
41	I1122112A	480-30607-E-2-B	12/21/2012	3:34:32PM	Unknown

42	I1122112A	480-30561-D-1-D	12/21/2012	3:36:51PM	Unknown
43	I1122112A	480-30561-B-3-B	12/21/2012	3:39:06PM	Unknown
44	I1122112A	480-30561-C-5-A	12/21/2012	3:41:28PM	Unknown
45	I1122112A	CCV	12/21/2012	3:43:47PM	QC
46	I1122112A	CCB	12/21/2012	3:46:01PM	QC
47	I1122112A	480-30561-C-5-A SD@5	12/21/2012	3:48:20PM	Unknown
48	I1122112A	480-30561-C-5-A PDS	12/21/2012	3:50:31PM	Unknown
49	I1122112A	480-30561-C-5-B MS	12/21/2012	3:52:43PM	Unknown
50	I1122112A	480-30561-C-5-C MSD	12/21/2012	3:54:54PM	Unknown
51	I1122112A	480-30561-C-6-A	12/21/2012	3:57:08PM	Unknown
52	I1122112A	480-30561-C-7-A	12/21/2012	3:59:30PM	Unknown
53	I1122112A	480-30629-G-1-A	12/21/2012	4:01:53PM	Unknown
54	I1122112A	480-30657-C-1-A	12/21/2012	4:04:11PM	Unknown
55	I1122112A	480-30631-C-1-B	12/21/2012	4:06:31PM	Unknown
56	I1122112A	480-30599-C-1-B	12/21/2012	4:08:57PM	Unknown
57	I1122112A	CCV	12/21/2012	4:11:23PM	QC
58	I1122112A	CCB	12/21/2012	4:13:37PM	QC
59	I1122112A	480-30618-P-1-B@200	12/21/2012	4:15:57PM	Unknown
60	I1122112A	480-30618-P-1-B@100	12/21/2012	4:18:17PM	Unknown
61	I1122112A	RB	12/21/2012	4:20:37PM	Unknown
62	I1122112A	RB	12/21/2012	4:22:53PM	Unknown
63	I1122112A	RB	12/21/2012	4:25:08PM	Unknown
64	I1122112A	480-30618-P-1-B	12/21/2012	4:27:24PM	Unknown
65	I1122112A	RB	12/21/2012	4:30:01PM	Unknown
66	I1122112A	RB	12/21/2012	4:32:16PM	Unknown
67	I1122112A	RB	12/21/2012	4:34:32PM	Unknown
68	I1122112A	RB	12/21/2012	4:36:48PM	Unknown
69	I1122112A	CCV	12/21/2012	4:39:07PM	QC
70	I1122112A	CCB	12/21/2012	4:41:21PM	QC
71	I1122112A	480-30618-P-1-B@10	12/21/2012	4:43:41PM	Unknown
72	I1122112A	RB	12/21/2012	4:46:15PM	Unknown
73	I1122112A	RB	12/21/2012	4:48:30PM	Unknown
74	I1122112A	RB	12/21/2012	4:50:45PM	Unknown
75	I1122112A	RB	12/21/2012	4:53:01PM	Unknown
76	I1122112A	480-30605-A-1-B	12/21/2012	4:55:16PM	Unknown
77	I1122112A	480-30586-A-1-A	12/21/2012	4:57:30PM	Unknown
78	I1122112A	MB 480-96546/15-B	12/21/2012	4:59:57PM	Unknown
79	I1122112A	LCS 480-96546/16-B	12/21/2012	5:02:23PM	Unknown
80	I1122112A	480-30600-A-1-A	12/21/2012	5:04:41PM	Unknown
81	I1122112A	CCV	12/21/2012	5:07:00PM	QC
82	I1122112A	CCB	12/21/2012	5:09:17PM	QC
83	I1122112A	480-30600-A-2-A	12/21/2012	5:11:38PM	Unknown
84	I1122112A	480-30598-A-1-A	12/21/2012	5:13:52PM	Unknown
85	I1122112A	480-30598-A-2-A	12/21/2012	5:16:05PM	Unknown
86	I1122112A	480-30598-A-3-A	12/21/2012	5:18:19PM	Unknown
87	I1122112A	480-30598-A-3-A SD@5	12/21/2012	5:20:32PM	Unknown
88	I1122112A	480-30598-A-3-A PDS	12/21/2012	5:22:45PM	Unknown
89	I1122112A	480-30598-A-3-B MS	12/21/2012	5:24:56PM	Unknown
90	I1122112A	480-30598-A-3-C MSD	12/21/2012	5:27:06PM	Unknown
91	I1122112A	480-30598-A-4-A	12/21/2012	5:29:18PM	Unknown

92	I1122112A	480-30598-A-5-A	12/21/2012	5:31:32PM	Unknown
93	I1122112A	CCV	12/21/2012	5:33:50PM	QC
94	I1122112A	CCB	12/21/2012	5:36:05PM	QC
95	I1122112A	480-30536-F-1-B	12/21/2012	5:38:26PM	Unknown
96	I1122112A	480-30536-F-2-B	12/21/2012	5:40:40PM	Unknown
97	I1122112A	480-30536-F-3-B	12/21/2012	5:42:52PM	Unknown
98	I1122112A	480-30495-E-1-D	12/21/2012	5:45:05PM	Unknown
99	I1122112A	480-30495-E-2-B	12/21/2012	5:47:18PM	Unknown
100	I1122112A	480-30495-E-3-B	12/21/2012	5:49:32PM	Unknown
101	I1122112A	480-30495-E-4-B	12/21/2012	5:51:47PM	Unknown
102	I1122112A	480-30604-A-1-A	12/21/2012	5:54:02PM	Unknown
103	I1122112A	480-30604-A-3-A	12/21/2012	5:56:25PM	Unknown
104	I1122112A	480-30587-C-1-A	12/21/2012	5:58:54PM	Unknown
105	I1122112A	CCV	12/21/2012	6:01:15PM	QC
106	I1122112A	CCB	12/21/2012	6:03:30PM	QC
107	I1122112A	480-30587-C-2-A	12/21/2012	6:05:49PM	Unknown
108	I1122112A	480-30587-C-3-A	12/21/2012	6:08:02PM	Unknown
109	I1122112A	480-30587-C-4-A	12/21/2012	6:10:28PM	Unknown
110	I1122112A	MB 480-97039/1-A	12/21/2012	6:12:45PM	Unknown
111	I1122112A	LCS 480-97039/2-A	12/21/2012	6:15:02PM	Unknown
112	I1122112A	LCSD 480-97039/3-A	12/21/2012	6:17:14PM	Unknown
113	I1122112A	480-30453-B-1-A	12/21/2012	6:19:26PM	Unknown
114	I1122112A	480-30497-G-1-D	12/21/2012	6:21:42PM	Unknown
115	I1122112A	480-30497-G-2-B	12/21/2012	6:23:59PM	Unknown
116	I1122112A	480-30497-G-3-B	12/21/2012	6:26:12PM	Unknown
117	I1122112A	CCV	12/21/2012	6:28:26PM	QC
118	I1122112A	CCB	12/21/2012	6:30:39PM	QC
119	I1122112A	480-30497-G-3-B SD@5	12/21/2012	6:32:58PM	Unknown
120	I1122112A	480-30497-G-3-B PDS	12/21/2012	6:35:11PM	Unknown
121	I1122112A	480-30497-G-3-C MS	12/21/2012	6:37:22PM	Unknown
122	I1122112A	480-30497-G-3-D MSD	12/21/2012	6:39:34PM	Unknown
123	I1122112A	480-30497-G-4-B	12/21/2012	6:41:45PM	Unknown
124	I1122112A	LB 480-96872/1-B	12/21/2012	6:43:55PM	Unknown
125	I1122112A	MB 480-97059/2-A	12/21/2012	6:46:15PM	Unknown
126	I1122112A	LCS 480-97059/3-A	12/21/2012	6:48:29PM	Unknown
127	I1122112A	480-30485-A-1-B	12/21/2012	6:50:41PM	Unknown
128	I1122112A	480-30535-A-1-C	12/21/2012	6:53:06PM	Unknown
129	I1122112A	CCV	12/21/2012	6:55:28PM	QC
130	I1122112A	CCB	12/21/2012	6:57:38PM	QC
131	I1122112A	480-30535-A-1-C SD@5	12/21/2012	7:00:01PM	Unknown
132	I1122112A	480-30535-A-1-C PDS	12/21/2012	7:02:29PM	Unknown
133	I1122112A	480-30535-A-1-D MS	12/21/2012	7:05:01PM	Unknown
134	I1122112A	480-30535-A-1-E MSD	12/21/2012	7:07:26PM	Unknown
135	I1122112A	LB2 480-96873/1-B	12/21/2012	7:09:52PM	Unknown
136	I1122112A	MB 480-97060/2-A	12/21/2012	7:12:10PM	Unknown
137	I1122112A	LCS 480-97060/3-A	12/21/2012	7:14:27PM	Unknown
138	I1122112A	480-30475-A-1-B	12/21/2012	7:16:38PM	Unknown
139	I1122112A	480-30485-A-3-B	12/21/2012	7:18:54PM	Unknown
140	I1122112A	480-30485-A-3-B SD@5	12/21/2012	7:21:03PM	Unknown
141	I1122112A	CCV	12/21/2012	7:23:13PM	QC

142	I1122112A	CCB	12/21/2012	7:25:20PM	QC
143	I1122112A	480-30485-A-3-B PDS	12/21/2012	7:27:31PM	Unknown
144	I1122112A	480-30485-A-3-C MS	12/21/2012	7:29:42PM	Unknown
145	I1122112A	480-30485-A-3-D MSD	12/21/2012	7:31:55PM	Unknown
146	I1122112A	MB 480-97077/1-A	12/21/2012	7:34:19PM	Unknown
147	I1122112A	LCSSRM 480-97077/2-A	12/21/2012	7:36:54PM	Unknown
148	I1122112A	LCDSRM 480-97077/3-A	12/21/2012	7:39:20PM	Unknown
149	I1122112A	480-29598-D-7-D	12/21/2012	7:41:35PM	Unknown
150	I1122112A	480-29598-B-8-E	12/21/2012	7:43:53PM	Unknown
151	I1122112A	480-29598-B-8-E SD@5	12/21/2012	7:46:03PM	Unknown
152	I1122112A	480-29598-B-8-E PDS	12/21/2012	7:48:14PM	Unknown
153	I1122112A	CCV	12/21/2012	7:50:29PM	QC
154	I1122112A	CCB	12/21/2012	7:52:52PM	QC
155	I1122112A	480-29598-B-8-F MS	12/21/2012	7:55:21PM	Unknown
156	I1122112A	480-29598-B-8-G MSD	12/21/2012	7:57:42PM	Unknown
157	I1122112A	480-29598-B-11-C	12/21/2012	8:00:04PM	Unknown
158	I1122112A	480-30565-D-1-A	12/21/2012	8:02:18PM	Unknown
159	I1122112A	480-30636-B-3-A	12/21/2012	8:04:45PM	Unknown
160	I1122112A	480-30636-B-6-A	12/21/2012	8:07:05PM	Unknown
161	I1122112A	480-30636-B-9-A	12/21/2012	8:09:19PM	Unknown
162	I1122112A	480-30636-B-12-A	12/21/2012	8:11:35PM	Unknown
163	I1122112A	480-30452-H-13-B	12/21/2012	8:13:57PM	Unknown
164	I1122112A	480-30452-H-15-B	12/21/2012	8:16:14PM	Unknown
165	I1122112A	CCV	12/21/2012	8:18:40PM	QC
166	I1122112A	CCB	12/21/2012	8:20:50PM	QC
167	I1122112A	480-30452-E-16-B	12/21/2012	8:23:08PM	Unknown
168	I1122112A	480-30537-B-1-D	12/21/2012	8:25:25PM	Unknown
169	I1122112A	480-30537-G-2-B	12/21/2012	8:28:00PM	Unknown
170	I1122112A	480-30537-F-3-B	12/21/2012	8:30:31PM	Unknown
171	I1122112A	460-48548-I-1-D	12/21/2012	8:32:51PM	Unknown
172	I1122112A	30468-18 dis raw	12/21/2012	8:35:06PM	Unknown
173	I1122112A	30294-2 tot raw	12/21/2012	8:37:18PM	Unknown
174	I1122112A	RB	12/21/2012	8:39:33PM	Unknown
175	I1122112A	RB	12/21/2012	8:41:52PM	Unknown
176	I1122112A	RB	12/21/2012	8:44:08PM	Unknown
177	I1122112A	CCV	12/21/2012	8:46:43PM	QC
178	I1122112A	CCB	12/21/2012	8:49:16PM	QC
179	I1122112A	CRI-1107665	12/21/2012	8:51:42PM	QC
180	I1122112A	ICSA-1101769	12/21/2012	8:54:03PM	QC
181	I1122112A	ICSAB-1086099	12/21/2012	8:56:27PM	QC
182	I1122112A	CCV	12/21/2012	8:58:46PM	QC
183	I1122112A	CCB	12/21/2012	9:00:55PM	QC

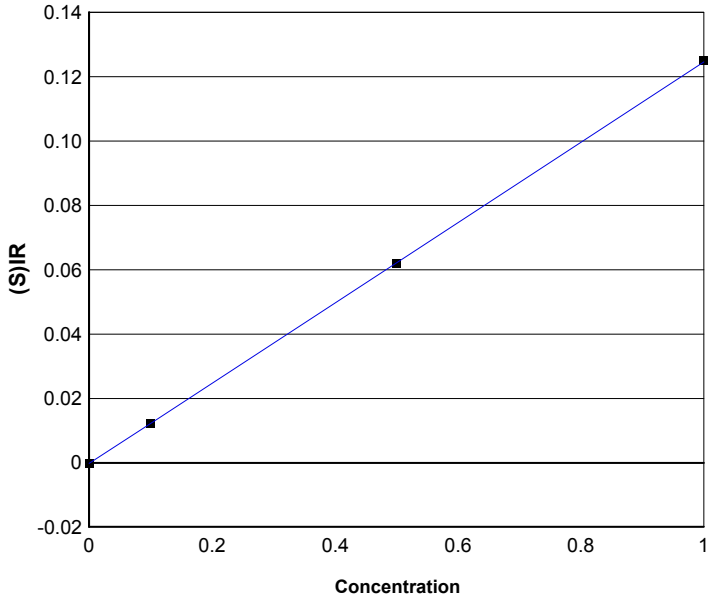
I1122112A

Author: MDM

Published: 12/24/2012 9:41:50AM

Instrument Name: ICAP 1 Serial Number: 20094603

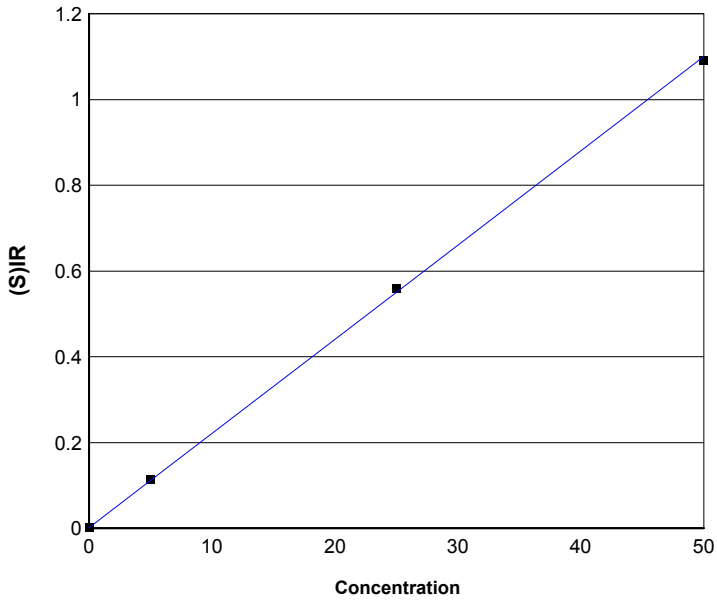
Method Name: ICAP1 (396)



Element Name:	Ag
Element Wavelength:	Ag 328.068 nm
Concentration Units:	ppm
Date of Calibration:	12/21/2012 2:10:33PM
Date of Fit:	12/21/2012 2:10:33PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00029837
A1 (Gain):	0.12499
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

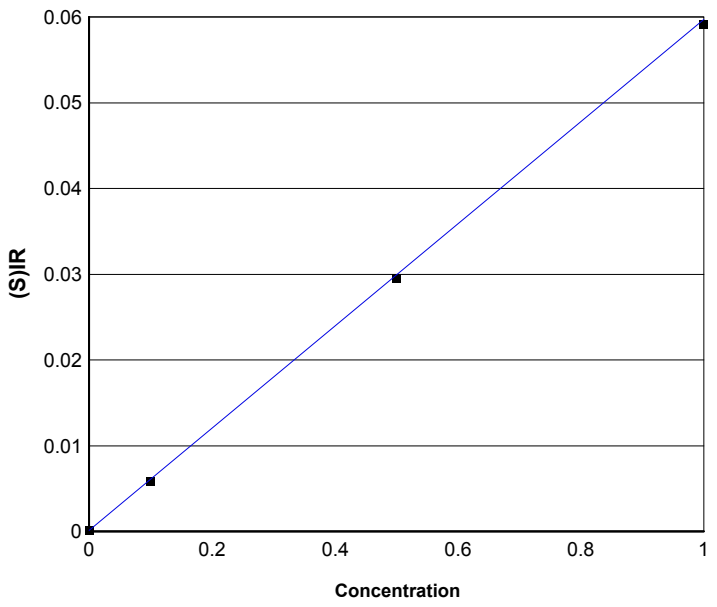
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000002526	0.0000002526	0.00000	-0.00029834	0.000025123	1
IC4	1.0000	1.0027	0.0026615	0.26615	0.12502	0.00033327	1
IC2	0.10000	0.10002	0.000016949	0.016949	0.012203	0.00011763	1
IC3	0.50000	0.49732	-0.0026785	-0.53569	0.061861	0.00043455	1



Element Name:	Al
Element Wavelength:	Al 308.215 nm
Concentration Units:	ppm
Date of Calibration:	12/21/2012 2:10:33PM
Date of Fit:	12/21/2012 2:10:33PM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	0.0019671
A1 (Gain):	0.021968
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

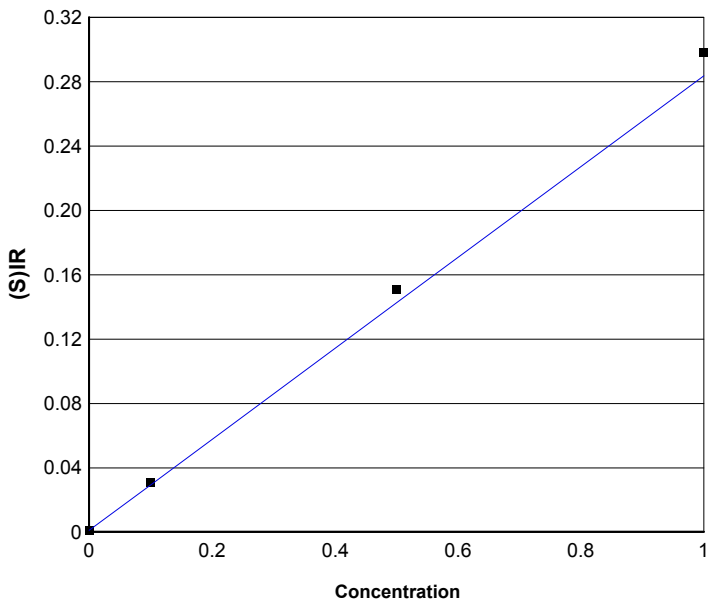
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	-0.00011294	-0.00011294	0.00000	0.0019646	0.00027633	1
IC4	50.000	49.559	-0.44114	-0.88229	1.0907	0.0056157	1
IC2	5.0000	5.0860	0.086033	1.7207	0.11370	0.00057355	1
IC3	25.000	25.355	0.35511	1.4204	0.55896	0.00068802	1



Element Name:	As
Element Wavelength:	As 189.042 nm
Concentration Units:	ppm
Date of Calibration:	12/21/2012 2:10:33PM
Date of Fit:	12/21/2012 2:10:33PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00013739
A1 (Gain):	0.059616
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

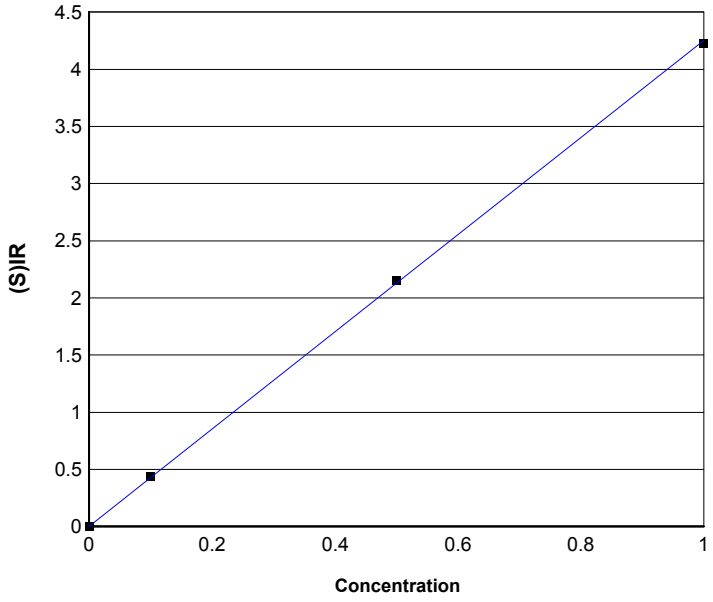
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000023398	0.0000023398	0.00000	0.00013753	0.000090862	1
IC4	1.0000	1.0028	0.0027605	0.27605	0.059092	0.000089863	1
IC2	0.10000	0.097420	-0.0025797	-2.5797	0.0058626	0.000012682	1
IC3	0.50000	0.49982	-0.00018076	-0.036152	0.029522	0.00010061	1



Element Name:	B
Element Wavelength:	B 208.959 nm
Concentration Units:	ppm
Date of Calibration:	12/21/2012 2:10:33PM
Date of Fit:	12/21/2012 2:10:33PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00094155
A1 (Gain):	0.28295
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

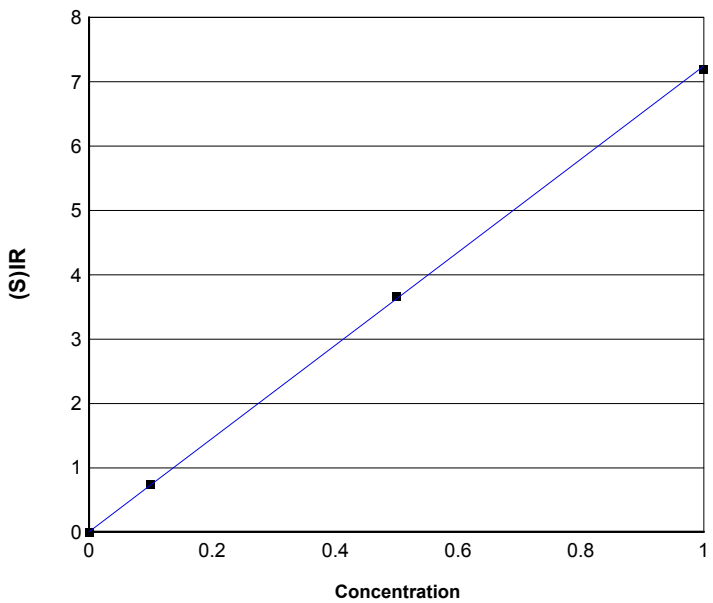
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000005172	-0.0000005172	0.00000	0.00094141	0.00012546	1
IC4	1.0000	0.99705	-0.0029547	-0.29547	0.29821	0.00048972	1
IC2	0.10000	0.10028	0.00027717	0.27717	0.030831	0.000089329	1
IC3	0.50000	0.50268	0.0026775	0.53550	0.15075	0.00033273	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	12/21/2012 2:10:33PM
Date of Fit:	12/21/2012 2:10:33PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	0.0033516
A1 (Gain):	4.2512
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

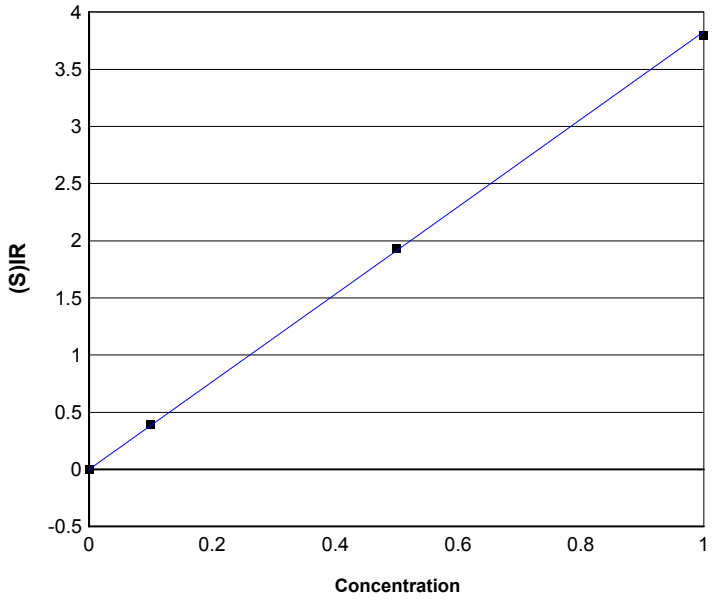
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000020837	-0.0000020837	0.00000	0.0033427	0.00076330	1
IC4	1.0000	0.99273	-0.0072690	-0.72690	4.2241	0.024287	1
IC2	0.10000	0.10170	0.0016960	1.6960	0.43573	0.00062030	1
IC3	0.50000	0.50557	0.0055731	1.1146	2.1529	0.0046065	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	12/21/2012 2:10:33PM
Date of Fit:	12/21/2012 2:10:33PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	0.00088970
A1 (Gain):	7.2437
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

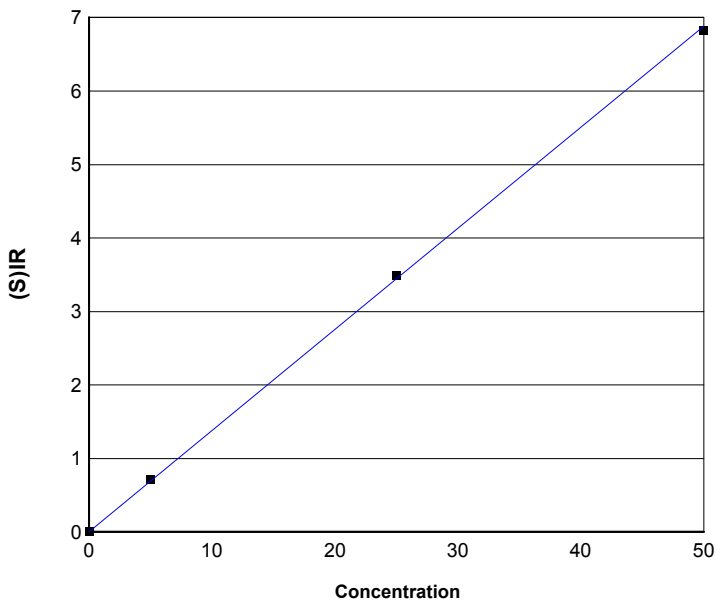
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000024011	-0.0000024011	0.00000	0.00087230	0.0000044703	1
IC4	1.0000	0.99298	-0.0070178	-0.70178	7.1937	0.054779	1
IC2	0.10000	0.10212	0.0021242	2.1242	0.74064	0.0031806	1
IC3	0.50000	0.50489	0.0048936	0.97873	3.6582	0.048100	1



Element Name:	Be
Element Wavelength:	Be 313.042 nm
Concentration Units:	ppm
Date of Calibration:	12/21/2012 2:10:34PM
Date of Fit:	12/21/2012 2:10:34PM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	-0.00087188
A1 (Gain):	3.8306
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

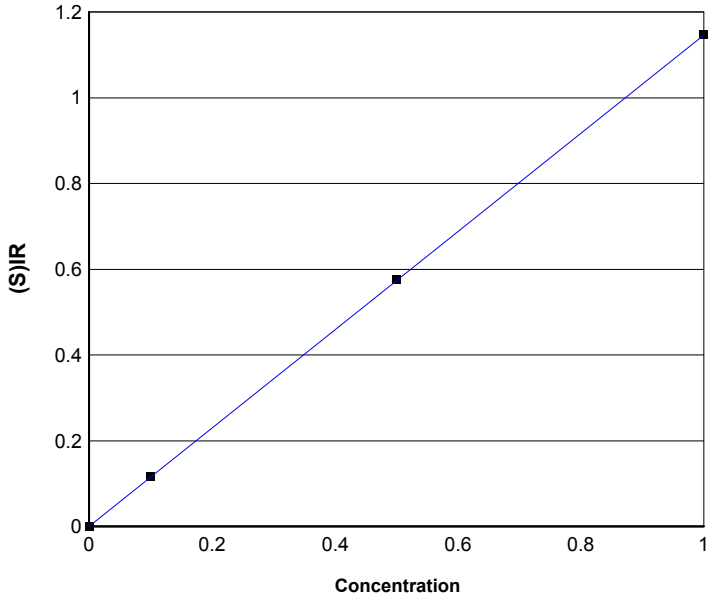
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000030736	-0.0000030736	0.00000	-0.00088365	0.0000029968	1
IC4	1.0000	0.99129	-0.0087075	-0.87075	3.7958	0.019357	1
IC2	0.10000	0.10275	0.0027536	2.7536	0.39268	0.0012679	1
IC3	0.50000	0.50595	0.0059539	1.1908	1.9369	0.0010177	1



Element Name:	Ca
Element Wavelength:	Ca 317.933 nm
Concentration Units:	ppm
Date of Calibration:	12/21/2012 2:10:34PM
Date of Fit:	12/21/2012 2:10:34PM
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	0.0037773
A1 (Gain):	0.13758
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

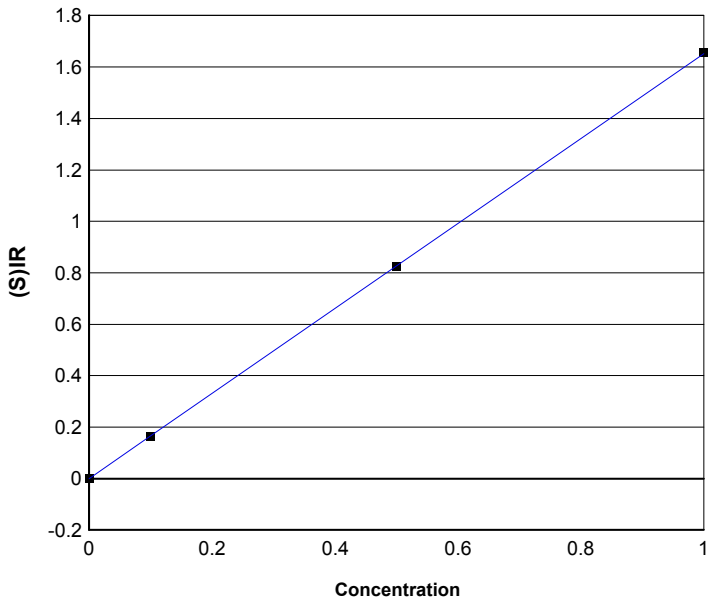
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	-0.00015438	-0.00015438	0.00000	0.0037561	0.00012420	1
IC4	50.000	49.533	-0.46703	-0.93405	6.8185	0.044275	1
IC2	5.0000	5.1346	0.13460	2.6919	0.71019	0.0010149	1
IC3	25.000	25.332	0.33243	1.3297	3.4890	0.0042170	1



Element Name:	Cd
Element Wavelength:	Cd 228.802 nm
Concentration Units:	ppm
Date of Calibration:	12/21/2012 2:10:34PM
Date of Fit:	12/21/2012 2:10:34PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00082027
A1 (Gain):	1.1462
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

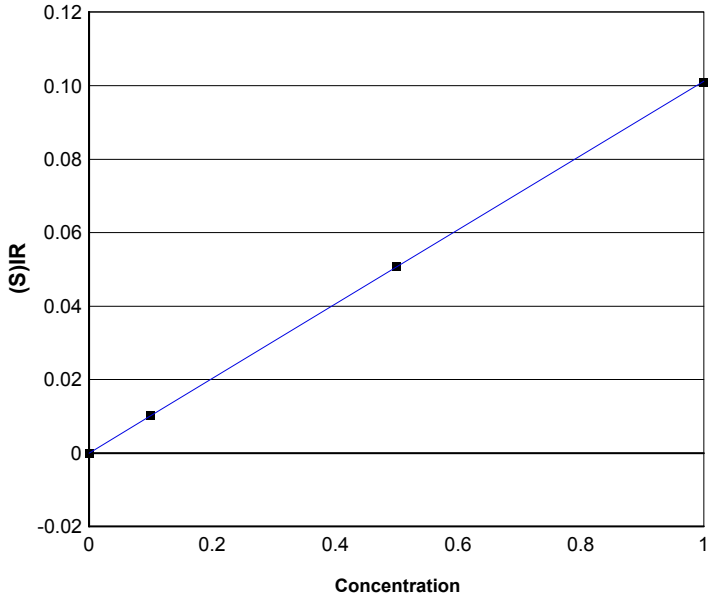
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000008301	-0.0000008301	0.00000	0.00081932	0.00012099	1
IC4	1.0000	0.99795	-0.0020508	-0.20508	1.1488	0.0023603	1
IC2	0.10000	0.10078	0.00078125	0.78125	0.11675	0.00025230	1
IC3	0.50000	0.50127	0.0012696	0.25391	0.57744	0.0016497	1



Element Name:	Co
Element Wavelength:	Co 228.616 nm
Concentration Units:	ppm
Date of Calibration:	12/21/2012 2:10:34PM
Date of Fit:	12/21/2012 2:10:34PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00041015
A1 (Gain):	1.6523
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

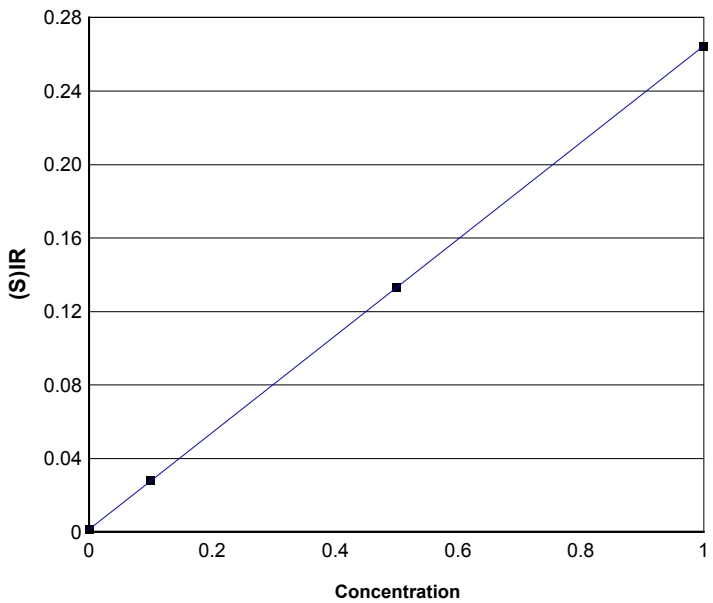
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000012678	0.0000012678	0.00000	-0.00040805	0.000098920	1
IC4	1.0000	1.0024	0.0024291	0.24291	1.6566	0.0026544	1
IC2	0.10000	0.098719	-0.0012811	-1.2811	0.16278	0.00059282	1
IC3	0.50000	0.49885	-0.0011480	-0.22960	0.82420	0.0013817	1



Element Name:	Cr
Element Wavelength:	Cr 267.716 nm
Concentration Units:	ppm
Date of Calibration:	12/21/2012 2:10:34PM
Date of Fit:	12/21/2012 2:10:34PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.000044207
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

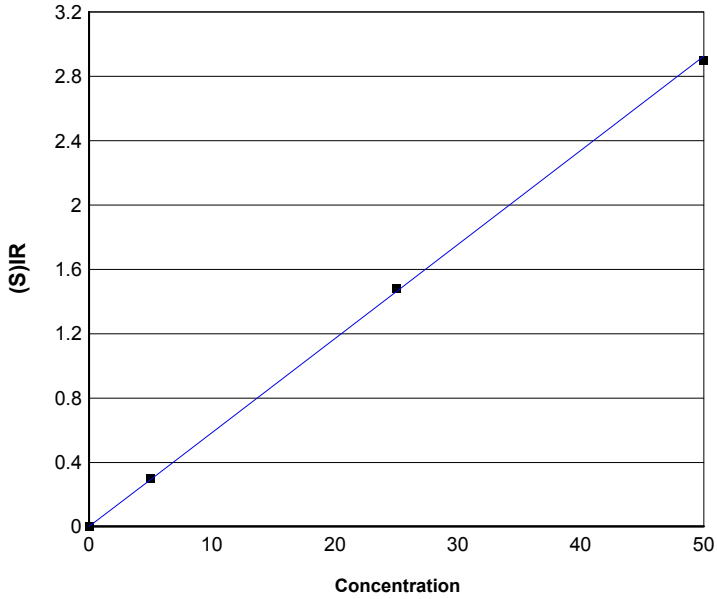
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000019387	-0.0000019387	0.00000	-0.000044403	0.0000006087	1
IC4	1.0000	0.99651	-0.0034919	-0.34919	0.10085	0.00014525	1
IC2	0.10000	0.10199	0.0019869	1.9869	0.010281	0.000032547	1
IC3	0.50000	0.50150	0.0015049	0.30099	0.050730	0.00035117	1



Element Name:	Cu
Element Wavelength:	Cu 324.754 nm
Concentration Units:	ppm
Date of Calibration:	12/21/2012 2:10:34PM
Date of Fit:	12/21/2012 2:10:34PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0014832
A1 (Gain):	0.26304
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

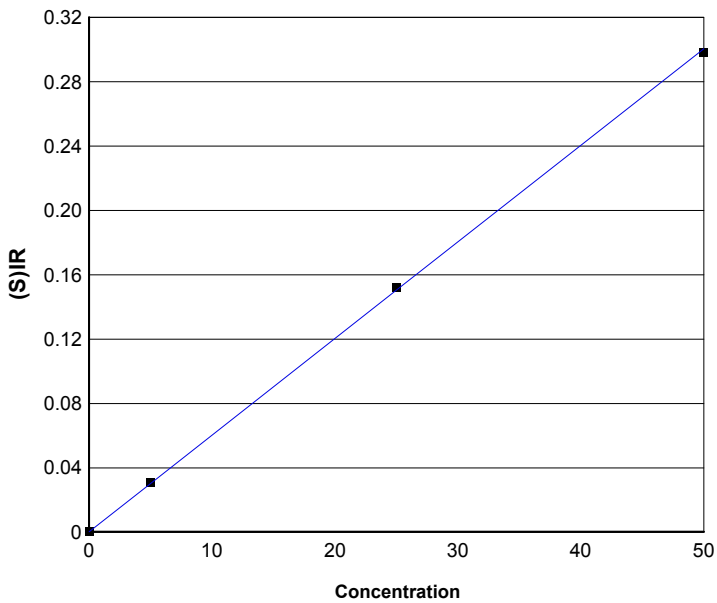
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000006102	-0.0000006102	0.00000	0.0014830	0.00011784	1
IC4	1.0000	0.99903	-0.00097176	-0.097176	0.26427	0.000025497	1
IC2	0.10000	0.10064	0.00064133	0.64133	0.027956	0.0000083821	1
IC3	0.50000	0.50033	0.00033043	0.066086	0.13309	0.00079857	1



Element Name:	Fe
Element Wavelength:	Fe 259.940 nm
Concentration Units:	ppm
Date of Calibration:	12/21/2012 2:10:34PM
Date of Fit:	12/21/2012 2:10:34PM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	0.00011402
A1 (Gain):	0.058520
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

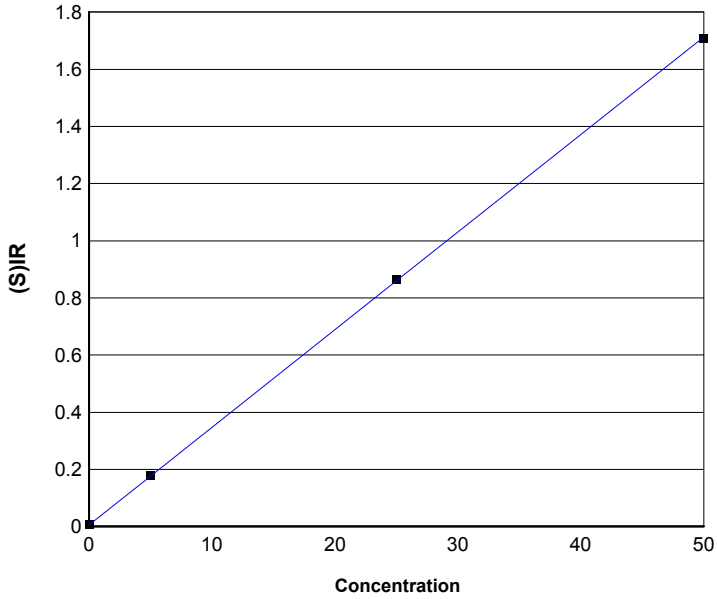
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	-0.00013220	-0.00013220	0.00000	0.00010628	0.000081921	1
IC4	50.000	49.543	-0.45730	-0.91459	2.8993	0.016849	1
IC2	5.0000	5.1081	0.10808	2.1617	0.29904	0.0019061	1
IC3	25.000	25.349	0.34921	1.3969	1.4835	0.0013436	1



Element Name:	Fe
Element Wavelength:	Fe 271.441 nm
Concentration Units:	ppm
Date of Calibration:	12/21/2012 2:10:34PM
Date of Fit:	12/21/2012 2:10:34PM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	0.00011500
A1 (Gain):	0.0060118
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

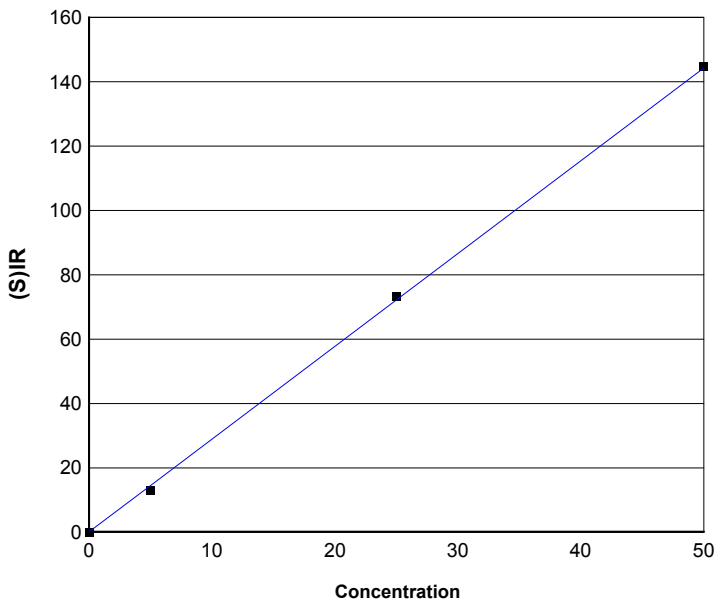
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	-0.00013531	-0.00013531	0.00000	0.00011419	0.00022213	1
IC4	50.000	49.590	-0.41023	-0.82046	0.29824	0.0025301	1
IC2	5.0000	5.1179	0.11785	2.3571	0.030882	0.000031725	1
IC3	25.000	25.292	0.29238	1.1695	0.15217	0.00014770	1



Element Name:	K
Element Wavelength:	K 766.490 nm
Concentration Units:	ppm
Date of Calibration:	12/21/2012 2:10:34PM
Date of Fit:	12/21/2012 2:10:34PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.0058173
A1 (Gain):	0.034160
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

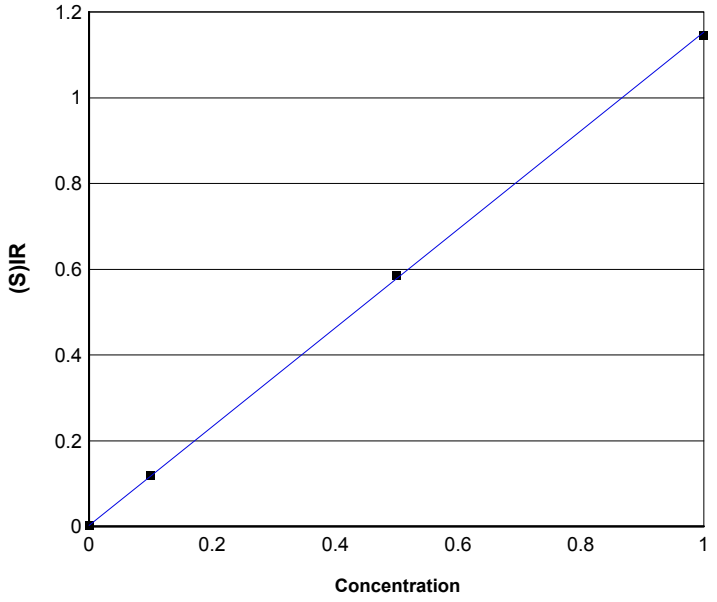
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	-0.000058462	-0.000058462	0.00000	0.0058153	0.00032357	1
IC4	50.000	49.774	-0.22618	-0.45235	1.7061	0.010495	1
IC2	5.0000	5.0448	0.044805	0.89610	0.17815	0.00019222	1
IC3	25.000	25.181	0.18137	0.72548	0.86600	0.0021146	1



Element Name:	K
Element Wavelength:	K 766.490 nm
Concentration Units:	ppm
Date of Calibration:	12/21/2012 2:10:34PM
Date of Fit:	12/21/2012 2:10:34PM
Type of Fit:	Linear
Correlation:	0.99959
A0 (Offset):	0.011158
A1 (Gain):	2.8876
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

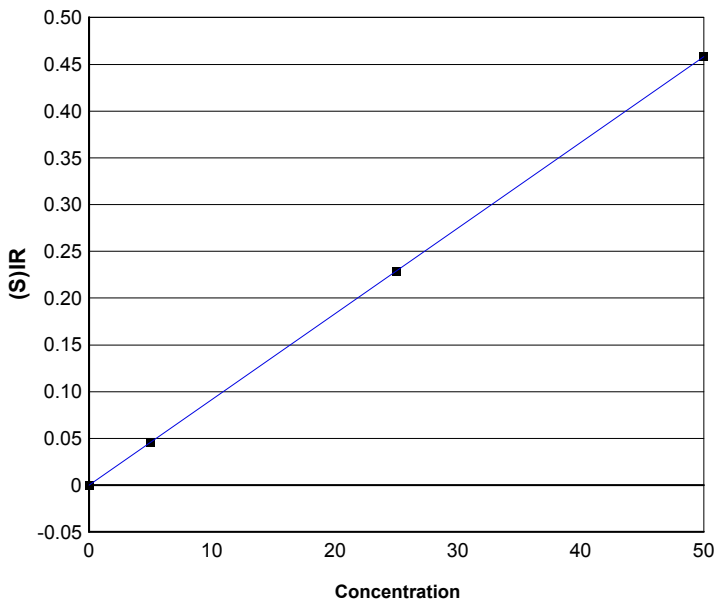
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.00044682	0.00044682	0.00000	0.012448	0.0020156	1
IC4	50.000	50.150	0.15006	0.30013	144.82	2.0010	1
IC2	5.0000	4.4602	-0.53976	-10.795	12.890	0.15324	1
IC3	25.000	25.390	0.38970	1.5588	73.326	0.0079932	1



Element Name:	Li
Element Wavelength:	Li 670.784 nm
Concentration Units:	ppm
Date of Calibration:	12/21/2012 2:10:34PM
Date of Fit:	12/21/2012 2:10:34PM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	0.0025020
A1 (Gain):	1.1513
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

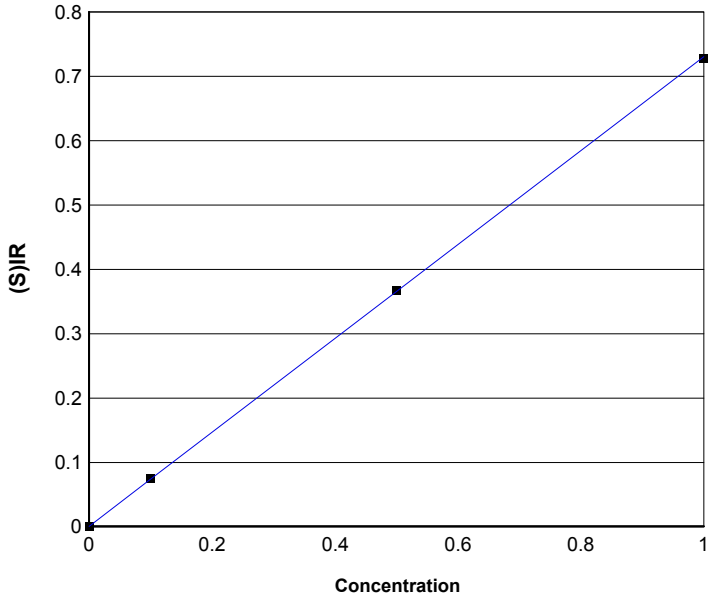
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000019800	-0.0000019800	0.00000	0.0024997	0.00061594	1
IC2	0.10000	0.10150	0.0015007	1.5007	0.11936	0.00030646	1
IC3	0.50000	0.50629	0.0062944	1.2589	0.58539	0.00089063	1
IC4	1.0000	0.99220	-0.0077951	-0.77951	1.1448	0.0066636	1



Element Name:	Mg
Element Wavelength:	Mg 279.079 nm
Concentration Units:	ppm
Date of Calibration:	12/21/2012 2:10:34PM
Date of Fit:	12/21/2012 2:10:34PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.000016738
A1 (Gain):	0.0091591
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

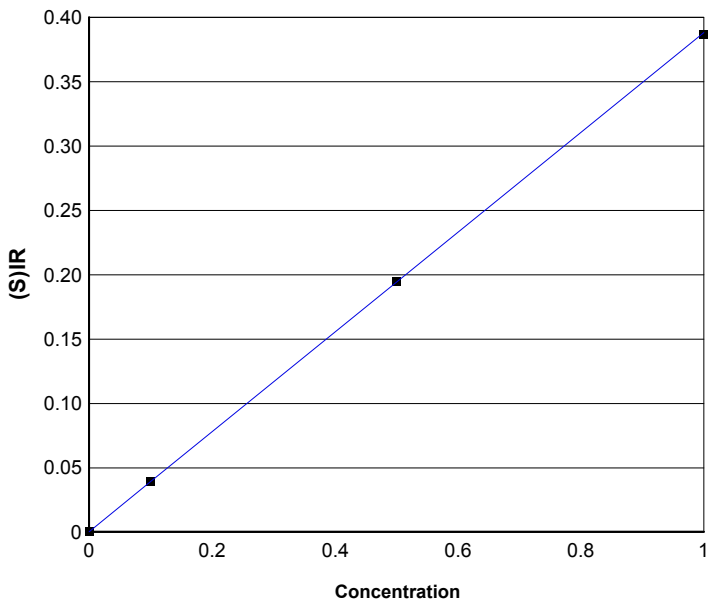
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	-0.000030393	-0.000030393	0.00000	-0.000017017	0.000065022	1
IC4	50.000	50.018	0.017701	0.035402	0.45810	0.0020399	1
IC2	5.0000	5.0402	0.040204	0.80409	0.046147	0.00025026	1
IC3	25.000	24.942	-0.057906	-0.23162	0.22843	0.0018047	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	12/21/2012 2:10:34PM
Date of Fit:	12/21/2012 2:10:34PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.00061725
A1 (Gain):	0.73006
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

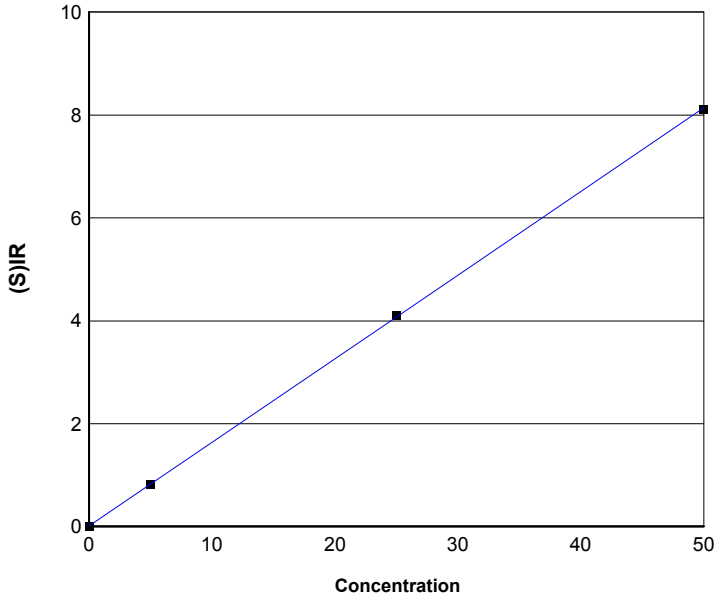
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000024088	-0.0000024088	0.00000	0.00061549	0.0000035788	1
IC4	1.0000	0.99539	-0.0046102	-0.46102	0.72732	0.0028595	1
IC2	0.10000	0.10243	0.0024347	2.4347	0.075401	0.00014860	1
IC3	0.50000	0.50218	0.0021755	0.43509	0.36724	0.0024733	1



Element Name:	Mo
Element Wavelength:	Mo 202.030 nm
Concentration Units:	ppm
Date of Calibration:	12/21/2012 2:10:34PM
Date of Fit:	12/21/2012 2:10:34PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00018928
A1 (Gain):	0.38821
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

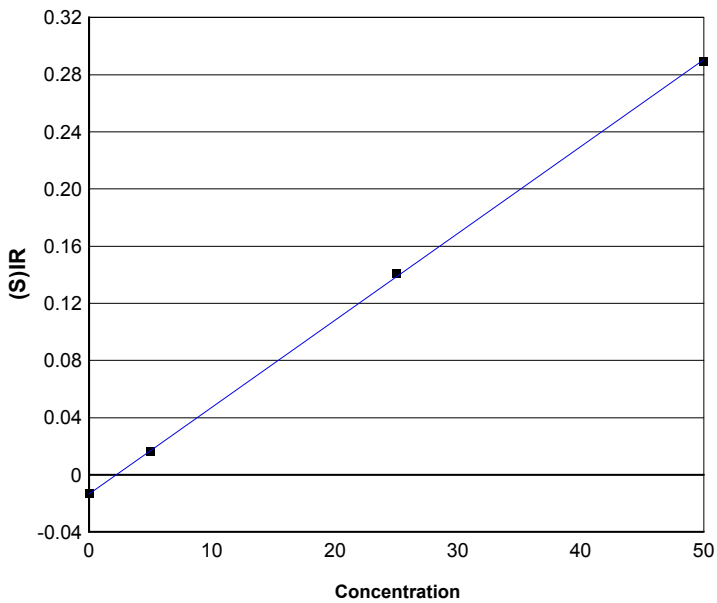
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000011456	-0.0000011456	0.00000	0.00018884	0.00014875	1
IC4	1.0000	0.99707	-0.0029346	-0.29346	0.38726	0.000085595	1
IC2	0.10000	0.10107	0.0010652	1.0652	0.039423	0.000044574	1
IC3	0.50000	0.50187	0.0018694	0.37388	0.19502	0.00034961	1



Element Name:	Na
Element Wavelength:	Na 589.592 nm
Concentration Units:	ppm
Date of Calibration:	12/21/2012 2:10:34PM
Date of Fit:	12/21/2012 2:10:34PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.0095225
A1 (Gain):	0.16261
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

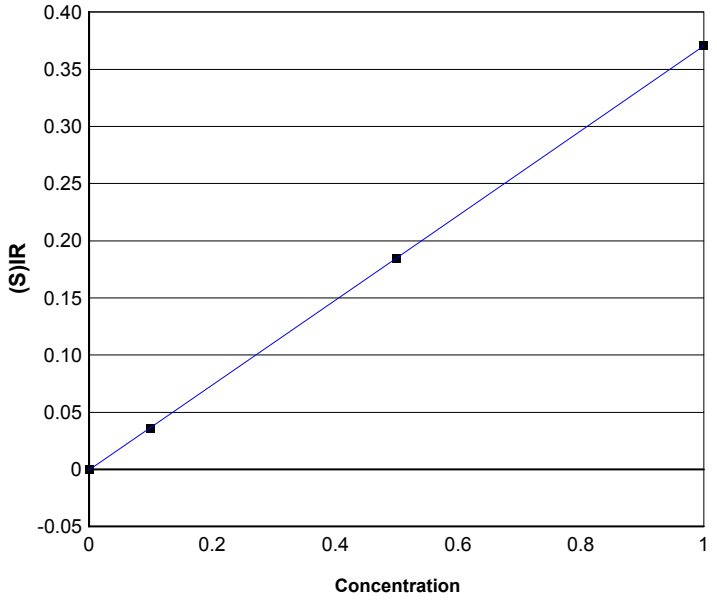
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	-0.000036088	-0.000036088	0.00000	0.0095166	0.00013512	1
IC4	50.000	49.776	-0.22421	-0.44843	8.1037	0.044667	1
IC2	5.0000	5.0171	0.017083	0.34167	0.82536	0.0013111	1
IC3	25.000	25.207	0.20713	0.82853	4.1085	0.00046265	1



Element Name:	Na
Element Wavelength:	Na 818.326 nm
Concentration Units:	ppm
Date of Calibration:	12/21/2012 2:10:34PM
Date of Fit:	12/21/2012 2:10:34PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	-0.013423
A1 (Gain):	0.0060809
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

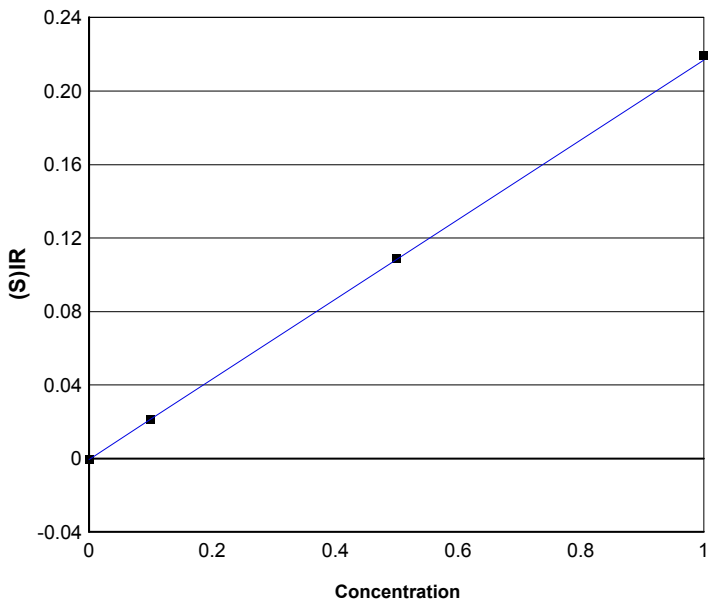
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.000033620	0.000033620	0.00000	-0.013423	0.0000039318	1
IC4	50.000	49.751	-0.24875	-0.49750	0.28911	0.0022876	1
IC2	5.0000	4.9269	-0.073118	-1.4624	0.016537	0.00021394	1
IC3	25.000	25.322	0.32187	1.2875	0.14056	0.00026620	1



Element Name:	Ni
Element Wavelength:	Ni 231.604 nm
Concentration Units:	ppm
Date of Calibration:	12/21/2012 2:10:34PM
Date of Fit:	12/21/2012 2:10:34PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00031832
A1 (Gain):	0.37067
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

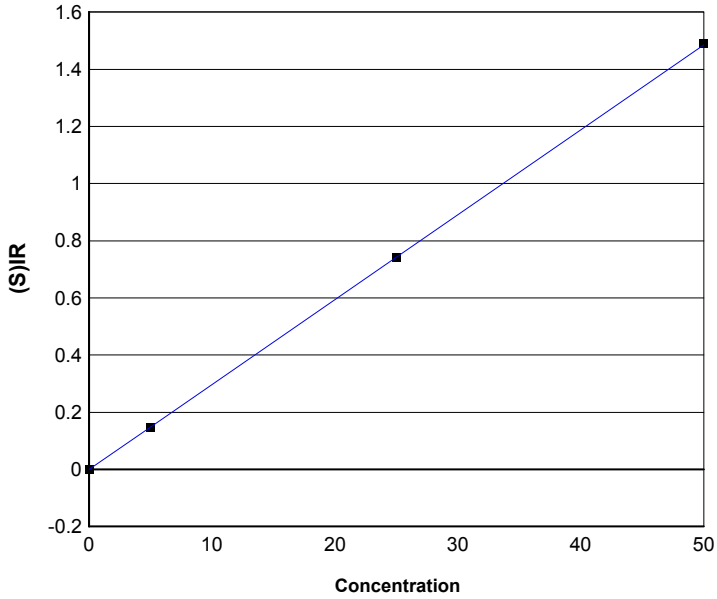
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000013018	0.0000013018	0.00000	-0.00031784	0.000083331	1
IC4	1.0000	1.0026	0.0026048	0.26048	0.37109	0.00079789	1
IC2	0.10000	0.098698	-0.0013016	-1.3016	0.036244	0.000040318	1
IC3	0.50000	0.49870	-0.0013032	-0.26064	0.18442	0.00014411	1



Element Name:	Pb
Element Wavelength:	Pb 220.353 nm
Concentration Units:	ppm
Date of Calibration:	12/21/2012 2:10:34PM
Date of Fit:	12/21/2012 2:10:34PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.00046674
A1 (Gain):	0.21738
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

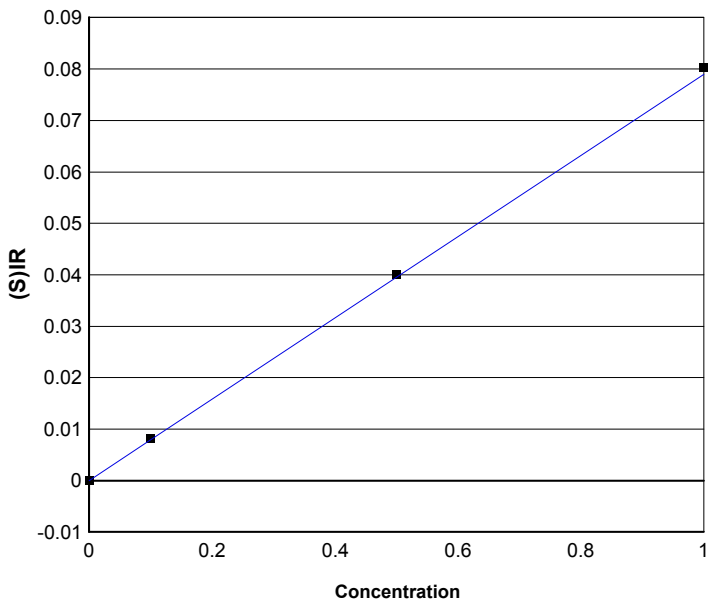
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000002515	0.0000002515	0.00000	-0.00046668	0.00014750	1
IC4	1.0000	1.0007	0.00068852	0.068852	0.21907	0.00025501	1
IC2	0.10000	0.099772	-0.00022830	-0.22830	0.021423	0.00010111	1
IC3	0.50000	0.49954	-0.00046022	-0.092044	0.10913	0.00034383	1



Element Name:	S
Element Wavelength:	S 182.034 nm
Concentration Units:	ppm
Date of Calibration:	12/21/2012 2:10:34PM
Date of Fit:	12/21/2012 2:10:34PM
Type of Fit:	Linear
Correlation:	1.0000
A0 (Offset):	-0.0004527
A1 (Gain):	0.02973
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

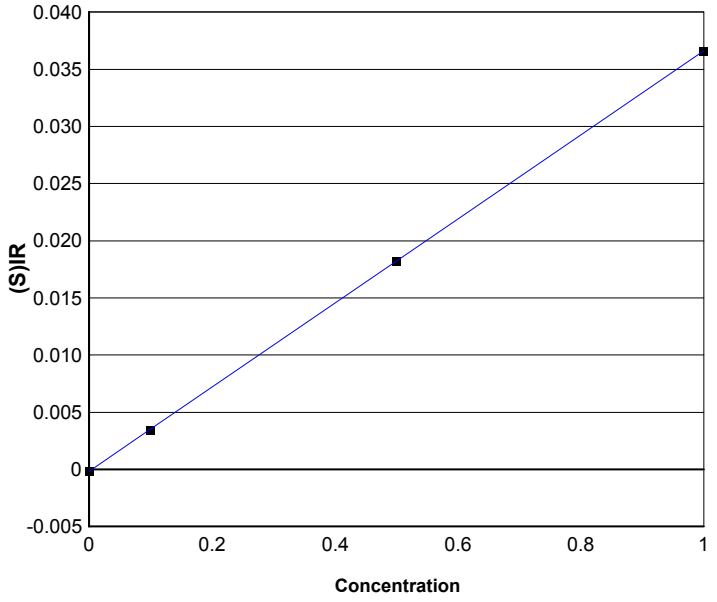
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.0000	0.00008705	0.00008705	0.0000	-0.0004501	0.00002607	1
IC2	5.000	4.911	-0.08861	-1.772	0.1455	0.0004307	1
IC3	25.00	24.93	-0.07300	-0.2920	0.7406	0.003731	1
IC4	50.00	50.16	0.1616	0.3232	1.491	0.0007307	1



Element Name:	Sb
Element Wavelength:	Sb 206.833 nm
Concentration Units:	ppm
Date of Calibration:	12/21/2012 2:10:34PM
Date of Fit:	12/21/2012 2:10:34PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.000024717
A1 (Gain):	0.079000
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

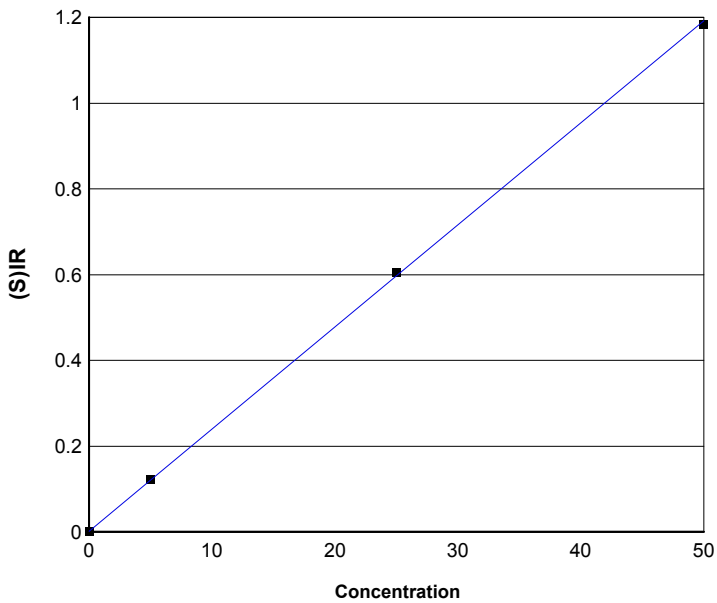
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000010278	-0.0000010278	0.00000	-0.000024798	0.00014228	1
IC4	1.0000	0.99996	-0.000042417	-0.0042417	0.080180	0.000030899	1
IC2	0.10000	0.10128	0.0012794	1.2794	0.0080972	0.00016162	1
IC3	0.50000	0.49876	-0.0012370	-0.24740	0.039982	0.000030639	1



Element Name:	Se
Element Wavelength:	Se 196.090 nm
Concentration Units:	ppm
Date of Calibration:	12/21/2012 2:10:34PM
Date of Fit:	12/21/2012 2:10:34PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00016009
A1 (Gain):	0.036768
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

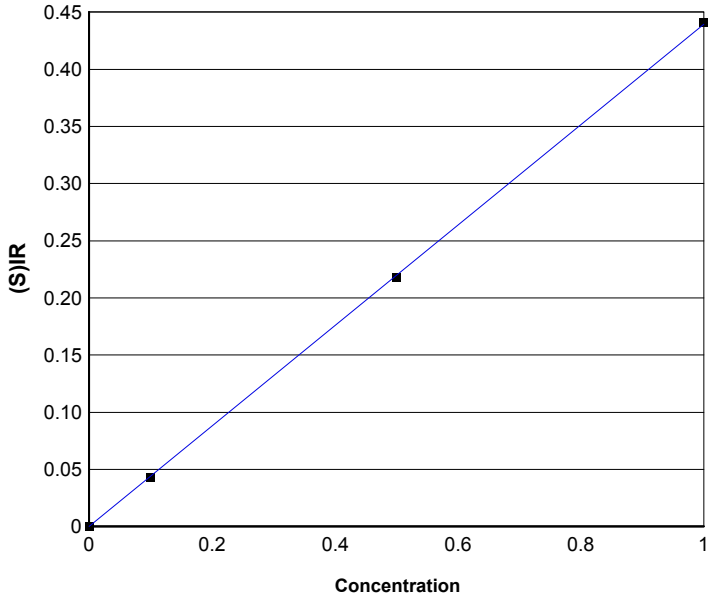
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000013034	0.0000013034	0.00000	-0.00016004	0.00010170	1
IC4	1.0000	1.0007	0.00068758	0.068758	0.036569	0.00015555	1
IC2	0.10000	0.098457	-0.0015432	-1.5432	0.0034535	0.000050302	1
IC3	0.50000	0.50086	0.00085566	0.17113	0.018223	0.00019480	1



Element Name:	Si
Element Wavelength:	Si 288.158 nm
Concentration Units:	ppm
Date of Calibration:	12/21/2012 2:10:34PM
Date of Fit:	12/21/2012 2:10:34PM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	0.0012380
A1 (Gain):	0.023834
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

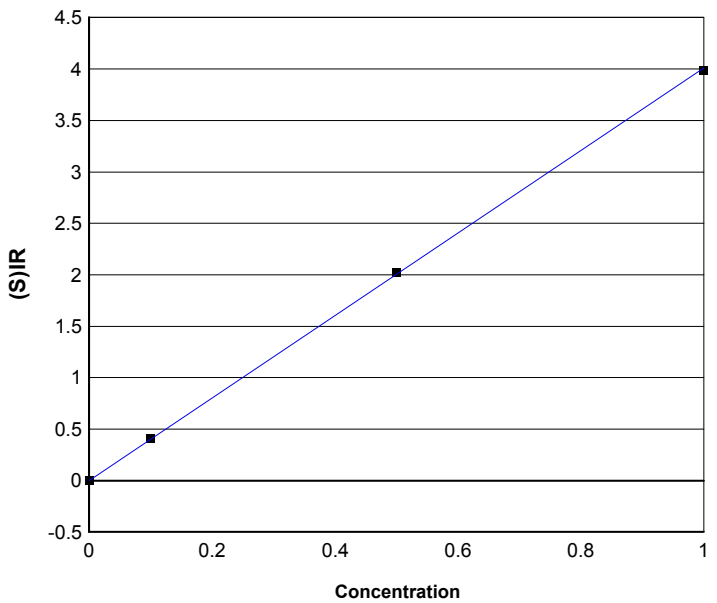
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	-0.00013918	-0.00013918	0.00000	0.0012347	0.00020633	1
IC2	5.0000	5.1182	0.11819	2.3638	0.12328	0.00071269	1
IC3	25.000	25.328	0.32810	1.3124	0.60517	0.00086733	1
IC4	50.000	49.554	-0.44630	-0.89259	1.1828	0.0043981	1



Element Name:	Sn
Element Wavelength:	Sn 189.989 nm
Concentration Units:	ppm
Date of Calibration:	12/21/2012 2:10:34PM
Date of Fit:	12/21/2012 2:10:34PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	0.000095390
A1 (Gain):	0.43947
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

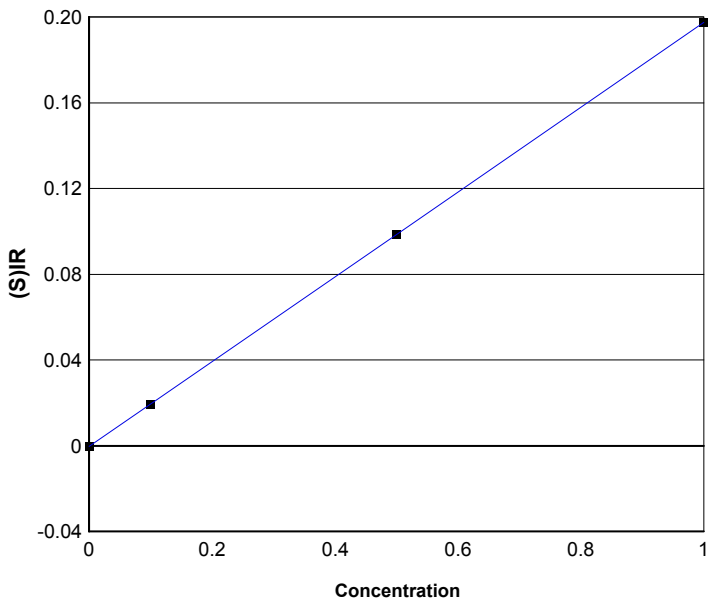
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000027847	0.0000027847	0.00000	0.000096613	0.000017251	1
IC4	1.0000	1.0063	0.0062898	0.62898	0.44117	0.0011563	1
IC2	0.10000	0.097305	-0.0026946	-2.6946	0.042742	0.00038141	1
IC3	0.50000	0.49640	-0.0035953	-0.71905	0.21767	0.0012834	1



Element Name:	Sr
Element Wavelength:	Sr 407.771 nm
Concentration Units:	ppm
Date of Calibration:	12/21/2012 2:10:34PM
Date of Fit:	12/21/2012 2:10:34PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	-0.00022477
A1 (Gain):	4.0119
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

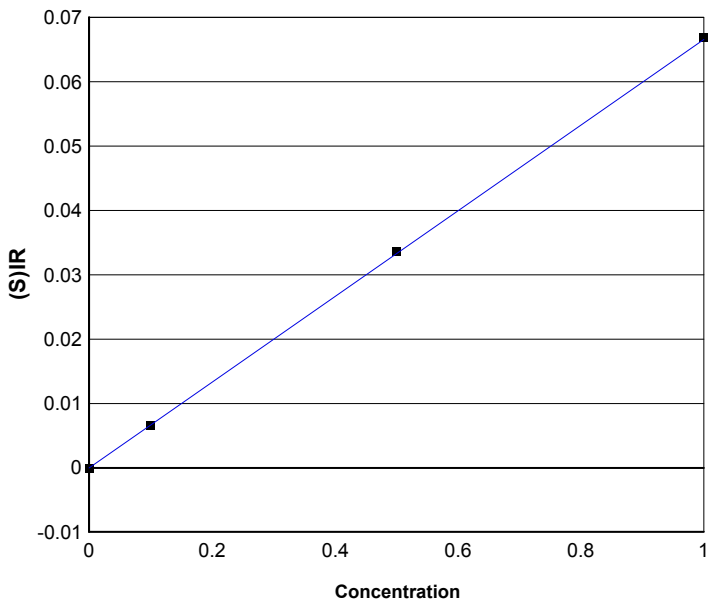
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000017778	-0.0000017778	0.00000	-0.00023190	0.00019507	1
IC2	0.10000	0.10144	0.0014377	1.4377	0.40673	0.0015612	1
IC3	0.50000	0.50484	0.0048386	0.96771	2.0251	0.0030149	1
IC4	1.0000	0.99372	-0.0062762	-0.62762	3.9865	0.022570	1



Element Name:	Ti
Element Wavelength:	Ti 334.904 nm
Concentration Units:	ppm
Date of Calibration:	12/21/2012 2:10:34PM
Date of Fit:	12/21/2012 2:10:34PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.00027092
A1 (Gain):	0.19777
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

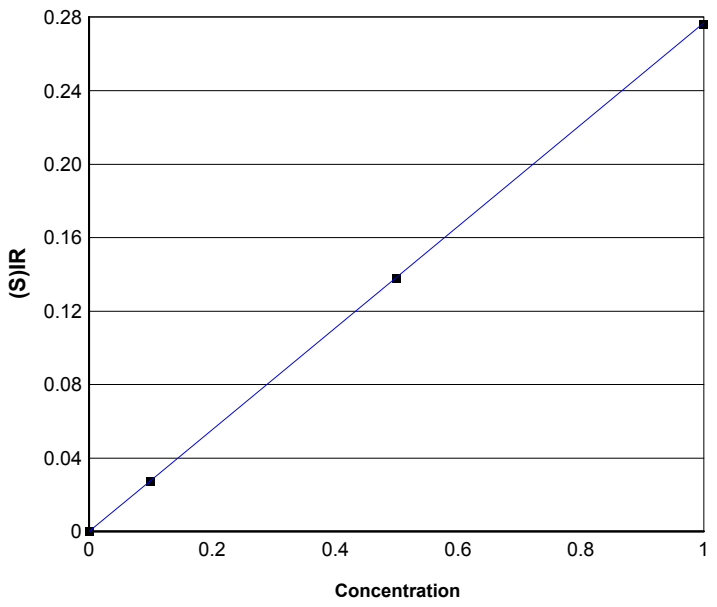
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000007494	0.0000007494	0.00000	-0.00027077	0.000049262	1
IC4	1.0000	0.99997	-0.000025444	-0.0025444	0.19750	0.00075529	1
IC2	0.10000	0.099060	-0.00093994	-0.93994	0.019321	0.000038173	1
IC3	0.50000	0.50097	0.00096538	0.19308	0.098807	0.00023795	1



Element Name:	Tl
Element Wavelength:	Tl 190.856 nm
Concentration Units:	ppm
Date of Calibration:	12/21/2012 2:10:34PM
Date of Fit:	12/21/2012 2:10:34PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.000064728
A1 (Gain):	0.066661
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

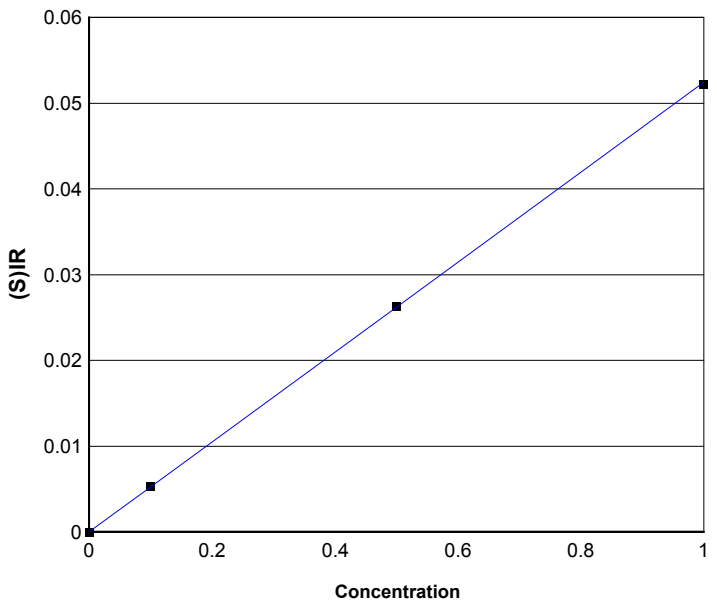
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000007421	0.0000007421	0.00000	-0.000064679	0.00012170	1
IC4	1.0000	0.99821	-0.0017927	-0.17927	0.066821	0.00027453	1
IC2	0.10000	0.098848	-0.0011517	-1.1517	0.0065590	0.000017517	1
IC3	0.50000	0.50294	0.0029444	0.58889	0.033634	0.00036593	1



Element Name:	V
Element Wavelength:	V 292.402 nm
Concentration Units:	ppm
Date of Calibration:	12/21/2012 2:10:34PM
Date of Fit:	12/21/2012 2:10:34PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0000005495
A1 (Gain):	0.27701
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	0.0000003785	0.0000003785	0.00000	0.0000006544	0.000098996	1
IC4	1.0000	1.0013	0.0013112	0.13112	0.27622	0.00078814	1
IC2	0.10000	0.099691	-0.00030925	-0.30925	0.027500	0.000044201	1
IC3	0.50000	0.49900	-0.0010020	-0.20039	0.13765	0.00044246	1



Element Name:	Zn
Element Wavelength:	Zn 206.200 nm
Concentration Units:	ppm
Date of Calibration:	12/21/2012 2:10:34PM
Date of Fit:	12/21/2012 2:10:34PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0000024312
A1 (Gain):	0.052427
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	0.0000008229	-0.0000008229	0.00000	0.0000023881	0.000017379	1
IC4	1.0000	0.99686	-0.0031445	-0.31445	0.052213	0.000056731	1
IC2	0.10000	0.10064	0.00063562	0.63562	0.0052733	0.000032348	1
IC3	0.50000	0.50251	0.0025088	0.50177	0.026322	0.000036956	1

Sample Name: IC1 Acquired: 12/21/2012 14:01:47 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	**-.00030**	**.00196**	**.00014**	**.00094**	**.00334**	**.00087**	**-.00088**	**.00376**	**.00082**	**-.00041**	**-.00004**	**.00148**
Stddev	.00003	.00028	.00009	.00013	.00076	.00000	.00000	.00012	.00012	.00010	.00000	.00012
%RSD	8.4211	14.065	66.067	13.327	22.834	.51247	.33913	3.3067	14.767	24.242	1.3709	7.9459
#1	-.00028	.00177	.00020	.00103	.00280	.00088	-.00088	.00384	.00090	-.00048	-.00004	.00140
#2	-.00032	.00216	.00007	.00085	.00388	.00087	-.00089	.00367	.00073	-.00034	-.00004	.00157

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	**.00011**	**.00011**	**.00582**	**.01245**	**.00250**	**-.00002**	**.00062**	**.00019**	**.00952**	**-.01342**	**-.00032**	**-.00047**
Stddev	.00008	.00022	.00032	.00202	.00062	.00007	.00000	.00015	.00014	.00000	.00008	.00015
%RSD	77.080	194.53	5.5641	16.193	24.640	382.11	.58145	78.768	1.4199	.02929	26.218	31.606
#1	.00005	.00027	.00559	.01102	.00206	.00003	.00061	.00008	.00942	-.01343	-.00038	-.00057
#2	.00016	-.00004	.00604	.01387	.00294	-.00006	.00062	.00029	.00961	-.01342	-.00026	-.00036

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**	**-.00002**	**-.00016**	**.00123**	**.00010**	**-.00023**	**-.00027**	**-.00006**	**.00000**	**.00000**
Stddev	.0000	.00014	.00010	.00021	.00002	.00020	.00005	.00012	.00010	.00002
%RSD	5.793	573.75	63.546	16.711	17.856	84.117	18.193	188.16	15129.	727.73
#1	-.0004	-.00013	-.00023	.00138	.00011	-.00009	-.00024	.00002	-.00007	.00001
#2	-.0005	.00008	-.00009	.00109	.00008	-.00037	-.00031	-.00015	.00007	-.00001

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4070.0**	**7047.4**	**60639.**	**9351.5**
Stddev	11.0	20.5	2725.	61.4
%RSD	.26933	.29122	4.4934	.65645
#1	4077.8	7061.9	62566.	9395.0
#2	4062.3	7032.9	58712.	9308.1

Sample Name: IC2 Acquired: 12/21/2012 14:04:04 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	.01220	.11370	.00586	.03083	.43573	.74064	.39268	.71019	.11675	.16278	.01028	.02796	.29904
Stddev	.00012	.00057	.00001	.00009	.00062	.00318	.00127	.00101	.00025	.00059	.00003	.00001	.00191
%RSD	.96400	.50446	.21633	.28974	.14236	.42944	.32289	.14291	.21611	.36420	.31656	.02998	.63742
#1	.01229	.11410	.00585	.03077	.43529	.74289	.39178	.70947	.11693	.16319	.01026	.02796	.29769
#2	.01212	.11329	.00587	.03089	.43616	.73839	.39357	.71091	.11657	.16236	.01030	.02795	.30038

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	.03088	.17815	12.890	.11936	.04615	.07540	.03942	.82536	.01654	.03624	.02142	.1455	.00810
Stddev	.00003	.00019	.153	.00031	.00025	.00015	.00004	.00131	.00021	.00004	.00010	.0004	.00016
%RSD	.10273	.10790	1.1888	.25676	.54231	.19708	.11306	.15886	1.2937	.11124	.47199	.2959	1.9960
#1	.03090	.17828	12.999	.11914	.04632	.07551	.03945	.82629	.01669	.03627	.02135	.1452	.00821
#2	.03086	.17801	12.782	.11957	.04597	.07530	.03939	.82443	.01639	.03622	.02149	.1459	.00798

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	.00345	.12328	.04274	.40673	.01932	.00656	.02750	.00527
Stddev	.00005	.00071	.00038	.00156	.00004	.00002	.00004	.00003
%RSD	1.4565	.57812	.89235	.38385	.19758	.26707	.16073	.61343
#1	.00349	.12378	.04247	.40562	.01935	.00655	.02753	.00530
#2	.00342	.12277	.04301	.40783	.01929	.00657	.02747	.00525

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3945.0	6987.3	62688.	9285.4
Stddev	1.6	10.3	6.	28.1
%RSD	.04138	.14722	.01015	.30310
#1	3946.1	6994.6	62684.	9265.5
#2	3943.8	6980.1	62693.	9305.3

Sample Name: IC3 Acquired: 12/21/2012 14:06:13 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	.06186	.55896	.02952	.15075	2.1529	3.6582	1.9369	3.4890	.57744	.82420	.05073	.13309	1.4835
Stddev	.00043	.00069	.00010	.00033	.0046	.0481	.0010	.0042	.00165	.00138	.00035	.00080	.0013
%RSD	.70246	.12309	.34080	.22071	.21397	1.3149	.05254	.12087	.28569	.16764	.69223	.60003	.09056
#1	.06217	.55848	.02945	.15052	2.1561	3.6922	1.9377	3.4920	.57627	.82518	.05098	.13365	1.4826
#2	.06155	.55945	.02959	.15099	2.1496	3.6242	1.9362	3.4860	.57860	.82323	.05048	.13252	1.4845

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	.15217	.86600	73.326	.58539	.22843	.36724	.19502	4.1085	.14056	.18442	.10913	.7406	.03998
Stddev	.00015	.00211	.008	.00089	.00180	.00247	.00035	.0005	.00027	.00014	.00034	.0037	.00003
%RSD	.09706	.24417	.01090	.15214	.79002	.67349	.17927	.01126	.18939	.07814	.31507	.5039	.07663
#1	.15206	.86750	73.320	.58602	.22971	.36899	.19477	4.1082	.14037	.18432	.10889	.7379	.04000
#2	.15227	.86451	73.332	.58476	.22715	.36549	.19527	4.1088	.14074	.18452	.10937	.7432	.03996

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	.01822	.60517	.21767	2.0251	.09881	.03363	.13765	.02632
Stddev	.00019	.00087	.00128	.0030	.00024	.00037	.00044	.00004
%RSD	1.0690	.14332	.58960	.14887	.24082	1.0880	.32144	.14040
#1	.01836	.60456	.21676	2.0272	.09898	.03338	.13796	.02635
#2	.01809	.60579	.21858	2.0230	.09864	.03389	.13734	.02630

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3695.0	6833.0	61130.	9195.8
Stddev	17.4	24.3	156.	12.9
%RSD	.47103	.35505	.25535	.14004
#1	3707.3	6850.2	61019.	9204.9
#2	3682.7	6815.9	61240.	9186.7

Sample Name: IC4 Acquired: 12/21/2012 14:08:27 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	**.12502**	**1.0907**	**.05909**	**.29821**	**4.2241**	**7.1937**	**3.7958**	**6.8185**	**1.1488**	**1.6566**	**.10085**	**.26427**	**2.8993**
Stddev	.00033	.0056	.00009	.00049	.0243	.0548	.0194	.0443	.0024	.0027	.00015	.00003	.0169
%RSD	.26657	.51489	.15207	.16422	.57496	.76149	.50996	.64934	.20546	.16023	.14403	.00965	.58112
#1	.12479	1.0946	.05916	.29787	4.2413	7.2325	3.8095	6.8498	1.1471	1.6548	.10074	.26425	2.9112
#2	.12526	1.0867	.05903	.29856	4.2069	7.1550	3.7821	6.7871	1.1505	1.6585	.10095	.26428	2.8874

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	**.29824**	**1.7061**	**144.82**	**1.1448**	**.45810**	**.72732**	**.38726**	**8.1037**	**.28911**	**.37109**	**.21907**	**1.491**	**.08018**
Stddev	.00253	.0105	2.00	.0067	.00204	.00286	.00009	.0447	.00229	.00080	.00026	.001	.00003
%RSD	.84834	.61518	1.3817	.58207	.44529	.39316	.02210	.55120	.79126	.21501	.11641	.0490	.03854
#1	.30003	1.7135	146.24	1.1495	.45666	.72529	.38720	8.1352	.29072	.37053	.21889	1.490	.08020
#2	.29645	1.6987	143.41	1.1401	.45954	.72934	.38732	8.0721	.28749	.37166	.21925	1.491	.08016

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	**.03657**	**1.1828**	**.44117**	**3.9865**	**.19750**	**.06682**	**.27622**	**.05221**
Stddev	.00016	.0044	.00116	.0226	.00076	.00027	.00079	.00006
%RSD	.42537	.37183	.26210	.56616	.38243	.41085	.28533	.10865
#1	.03646	1.1859	.44198	4.0024	.19803	.06702	.27566	.05217
#2	.03668	1.1797	.44035	3.9705	.19696	.06663	.27678	.05225

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3517.8**	**6702.5**	**59373.**	**9157.6**
Stddev	7.1	1.6	113.	29.2
%RSD	.20294	.02429	.19067	.31870
#1	3512.7	6701.3	59293.	9137.0
#2	3522.8	6703.6	59454.	9178.3

Sample Name: ICV-1120773 Acquired: 12/21/2012 14:10:39 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.37297	18.876	.36326	.36682	.37762	.38159	19.133	.36648	.36038	.36966	.36858	18.522	19.196
Stddev	.00403	1.080	.00279	.00248	.00253	.02042	1.031	.00216	.00165	.00229	.00207	.997	1.007
%RSD	1.0808	5.7209	.76914	.67735	.66917	5.3502	5.3901	.58834	.45695	.61857	.56036	5.3817	5.2474
#1	.37012	18.112	.36128	.36858	.37583	.36715	18.404	.36801	.36154	.36805	.36712	17.818	18.483
#2	.37582	19.639	.36523	.36507	.37940	.39603	19.862	.36496	.35921	.37128	.37005	19.227	19.908
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	18.197	.38163	18.023	.37490	.36904	19.169	.36223	.36426	18.13	.37132	.36503	19.291	.37934
Stddev	.695	.02296	.145	.00341	.00288	.983	.00180	.00186	.08	.00199	.00015	1.038	.00101
%RSD	3.8166	6.0155	.80540	.90940	.78143	5.1302	.49584	.50992	.4324	.53573	.04070	5.3815	.26558
#1	17.706	.36540	17.920	.37249	.37108	18.473	.36350	.36557	18.19	.37272	.36493	18.557	.38005
#2	18.688	.39786	18.125	.37731	.36700	19.864	.36096	.36294	18.08	.36991	.36514	20.025	.37862
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	.38118	.37073	.36957	.36837	.37070
Stddev	.01956	.00356	.00241	.00191	.00340
%RSD	5.1326	.96101	.65177	.51804	.91853
#1	.36735	.36821	.36786	.36702	.36829
#2	.39502	.37325	.37127	.36972	.37311
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	3728.4	6839.0	60834.	8928.5
Stddev	8.9	14.8	350.	346.5
%RSD	.23779	.21681	.57583	3.8805
#1	3722.1	6828.6	61082.	9173.5
#2	3734.6	6849.5	60587.	8683.5

Sample Name: ICB-1118274 Acquired: 12/21/2012 14:12:49 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	**.00033**	**.00205**	**-.00133**	**.00062**	**.00002**	**.00006**	**.00009**	**-.00010**	**-.00006**	**.00055**	**-.00010**	**.00320**	**.03145**
Stddev	.00023	.00777	.00233	.00009	.00002	.00000	.00067	.00005	.00005	.00011	.00003	.00524	.00233
%RSD	68.227	378.29	176.12	14.976	106.05	.70050	774.10	55.539	83.232	20.083	30.879	163.77	7.4131
#1	.00017	.00755	-.00298	.00069	.00003	.00006	-.00038	-.00006	-.00002	.00047	-.00008	-.00051	.03310
#2	.00049	-.00344	.00033	.00056	.00000	.00006	.00056	-.00013	-.00009	.00063	-.00012	.00690	.02980
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	**.00228**	**-.00098**	**.00410**	**-.00010**	**.00024**	**-.00550**	**-.00008**	**.00059**	F **.0031**	**.00060**	**.00030**	**.01703**	**.00032**
Stddev	.00043	.00036	.00320	.00007	.00025	.00450	.00042	.00146	.0026	.00064	.00216	.00109	.00028
%RSD	18.844	36.444	77.934	74.320	103.88	81.875	519.46	247.98	81.91	106.42	709.84	6.4006	88.721
#1	.00259	-.00123	.00637	-.00005	.00006	-.00869	-.00038	-.00044	.0049	.00015	.00183	.01780	.00012
#2	.00198	-.00073	.00184	-.00015	.00041	-.00232	.00022	.00163	.0013	.00106	-.00122	.01626	.00052
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**	**.00025**	**.00121**	**-.00011**	**.00018**
Stddev	.00010	.00015	.00079	.00029	.00030
%RSD	291.99	59.386	65.505	256.27	173.60
#1	.00011	.00015	.00177	-.00032	.00039
#2	-.00004	.00036	.00065	.00009	-.00004
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	**4044.9**	**7027.0**	**61090.**	**9240.6**
Stddev	7.6	5.7	874.	51.4
%RSD	.18842	.08045	1.4304	.55650
#1	4050.3	7031.0	61708.	9204.2
#2	4039.5	7023.0	60472.	9277.0

Sample Name: CRI-1107665 Acquired: 12/21/2012 14:15:05 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	.00342	.20152	.00783	.02450	.00213	.00208	.54770	.00090	.00394	W .00525	.00981	.05152
Stddev	.00041	.00977	.00001	.00018	.00001	.00005	.00514	.00007	.00006	.00012	.00008	.00322
%RSD	11.933	4.8482	.17750	.73577	.65319	2.3781	.93896	7.4183	1.5617	2.2450	.80455	6.2464
#1	.00371	.19461	.00782	.02463	.00212	.00211	.54407	.00095	.00390	.00516	.00976	.04924
#2	.00313	.20843	.00784	.02437	.00214	.00204	.55134	.00086	.00398	.00533	.00987	.05379
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
Value										.00400		
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	.56213	.39012	.03087	.20950	.00292	.01100	.97309	.00968	W .00684	F .0578	.02040	.01333
Stddev	.03938	.00310	.00106	.00456	.00002	.00033	.01872	.00030	.00026	.0032	.00108	.00178
%RSD	7.0054	.79358	3.4448	2.1771	.82146	3.0124	1.9234	3.0907	3.8655	5.600	5.3177	13.363
#1	.58998	.38793	.03012	.20627	.00290	.01077	.95985	.00989	.00665	.0601	.01963	.01459
#2	.53429	.39231	.03162	.21272	.00294	.01124	.98632	.00947	.00702	.0555	.02117	.01207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Fail	Chk Pass	Chk Pass
Value									.00500	.0030		
Range									30.000%	50.00%		

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.55471	W .00592	.00537	.00521	.01940	.00494	.01146
Stddev	.00704	.00021	.00005	.00010	.00176	.00005	.00029
%RSD	1.2685	3.5799	.86071	1.8511	9.0706	1.0808	2.5333
#1	.54973	.00607	.00534	.00514	.02065	.00490	.01166
#2	.55968	.00577	.00541	.00528	.01816	.00498	.01125
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	4028.4	7031.0	62424.	9354.7
Stddev	7.7	1.0	31.	82.9
%RSD	.19208	.01381	.04971	.88591
#1	4033.8	7030.3	62446.	9413.3
#2	4022.9	7031.7	62402.	9296.1

Sample Name: ICSA-1101769 Acquired: 12/21/2012 14:17:22 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	**-.00046**	**483.81**	**.00291**	**-.00063**	**.00035**	**.00001**	**462.63**	**-.00055**	**-.00081**	**.00310**	**.00222**	**183.88**	**.00753**
Stddev	.00005	1.62	.00274	.00053	.00003	.00004	2.77	.00026	.00022	.00020	.00023	.98	.01604
%RSD	10.921	.33533	93.922	83.960	7.5474	269.74	.59885	46.228	27.540	6.4138	10.433	.53395	213.06
#1	-.00042	484.96	.00485	-.00026	.00037	.00004	464.59	-.00073	-.00097	.00324	.00238	184.58	.01887
#2	-.00049	482.66	.00098	-.00101	.00033	-.00001	460.67	-.00037	-.00065	.00296	.00206	183.19	-.00381
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	**.00467**	**.00251**	**506.00**	**.00145**	**-.00053**	**-.01120**	**.00702**	**.00052**	F **-.1445**	**-.00664**	**.00320**	**.01634**	**.00094**
Stddev	.00050	.00075	5.58	.00016	.00035	.00263	.00041	.00082	.0022	.00099	.00018	.00324	.00087
%RSD	10.687	30.078	1.1027	10.741	65.699	23.465	5.8029	158.45	1.527	14.928	5.7508	19.848	92.510
#1	.00502	.00304	502.06	.00156	-.00028	-.00934	.00673	-.00006	-.1461	-.00734	.00333	.01405	.00156
#2	.00431	.00197	509.95	.00134	-.00078	-.01305	.00731	.00109	-.1430	-.00594	.00307	.01864	.00033
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	**.00551**	**.00468**	**-.00214**	**-.00249**	**.00226**
Stddev	.00000	.00018	.00287	.00036	.00018
%RSD	.08703	3.7974	134.30	14.287	7.8111
#1	.00550	.00481	-.00011	-.00274	.00238
#2	.00551	.00456	-.00417	-.00224	.00213
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	**2981.0**	**6084.1**	**53118.**	**8803.7**
Stddev	7.2	7.9	7.	40.4
%RSD	.24089	.13063	.01344	.45852
#1	2976.0	6078.5	53123.	8775.2
#2	2986.1	6089.7	53113.	8832.3

Sample Name: ICSAB-1086099 Acquired: 12/21/2012 14:19:48 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	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.22042	^F *****	.10465	.00202	^F *****	^F *****	^F *****	1.0172	.49000	.49384	.53219	F 41.283
Stddev	.00129	-----	.00120	.00061	-----	-----	-----	.0048	.00139	.00337	.00012	53.353
%RSD	.58400	-----	1.1499	30.091	-----	-----	-----	.46889	.28319	.68341	.02304	129.24
#1	.21951	18.574	.10380	.00245	.01653	.01825	^ -----	1.0206	.49098	.49145	.53228	3.5564
#2	.22133	^ -----	.10550	.00159	^ -----	^ -----	^ -----	1.0138	.48902	.49623	.53211	79.009
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value		500.00			.50000	.50000	500.00					100.00
Range		-20.000%			-20.000%	-20.000%	-20.000%					-20.000%

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	-.03291	.01064	.22894	519.23	.47755	.00027	-.00824	.97410	kF .03617	F -.1257	.59628	kF .03411
Stddev	.01129	.00516	.30260	5.35	.00400	.00092	.06856	.00262	.00266	.0020	.00488	.00525
%RSD	34.316	48.551	132.17	1.0313	.83670	341.51	832.14	.26919	7.3667	1.563	.81858	15.399
#1	-.04090	.00699	.01498	515.44	.47473	-.00038	-.05672	.97595	.03428	-.1243	.59973	.03040
#2	-.02492	.01429	.44291	523.01	.48038	.00092	.04024	.97224	k .03805	-.1271	.59283	k .03782
Check ?	None	None	None	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail
Value									.05000	.2000		.05000
Range									-20.000%	-20.00%		-20.000%

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .45605	.00053	^ *****	.00401	.09208	.49817	.99098
Stddev	.61109	.00100	-----	.00007	.00111	.00290	.00879
%RSD	134.00	187.29	-----	1.8453	1.2043	.58199	.88709
#1	.02394	-.00017	.01674	.00406	.09286	.49612	.98476
#2	.88815	.00124	^ -----	.00396	.09129	.50022	.99720
Check ?	Chk Fail	None	None	None	Chk Pass	Chk Pass	Chk Pass
Value	1.0000						
Range	-20.000%						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2984.1	6095.2	53087.	12282.
Stddev	.2	2.0	204.	4103.
%RSD	.00812	.03299	.38519	33.409
#1	2984.0	6096.6	53231.	15184.
#2	2984.3	6093.8	52942.	9380.6

Sample Name: CCV-1107667 Acquired: 12/21/2012 14:22:06 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	.54715	24.127	.48696	.48164	.49522	.48565	24.406	.48728	.47978	.54207	.53924	23.657	24.441
Stddev	.06589	.028	.00036	.00090	.00075	.00125	.082	.00069	.00031	.06379	.06422	.044	.015
%RSD	12.043	.11549	.07351	.18681	.15191	.25772	.33479	.14195	.06468	11.768	11.909	.18447	.06043
#1	.59374	24.107	.48671	.48101	.49469	.48476	24.348	.48679	.48000	.58718	.58465	23.626	24.430
#2	.50055	24.146	.48722	.48228	.49575	.48653	24.464	.48777	.47956	.49696	.49383	23.688	24.451
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	24.794	.48888	26.410	.54881	.49454	24.671	.48226	.48133	24.32	.49030	.48401	24.696	.50880
Stddev	.304	.00004	3.208	.06635	.00058	.012	.00007	.00029	.03	.00260	.00541	.079	.00036
%RSD	1.2255	.00866	12.147	12.090	.11708	.04966	.01444	.06076	.1182	.53046	1.1174	.32002	.07163
#1	25.009	.48885	28.679	.59573	.49413	24.663	.48231	.48153	24.30	.48846	.48783	24.640	.50854
#2	24.579	.48891	24.142	.50189	.49495	24.680	.48221	.48112	24.34	.49214	.48019	24.752	.50905
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	.48690	.54925	.49194	.54541	.54402
Stddev	.00072	.06695	.00059	.06677	.06723
%RSD	.14722	12.190	.12075	12.241	12.358
#1	.48639	.59659	.49152	.59262	.59156
#2	.48740	.50191	.49236	.49820	.49649
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	3690.1	6835.4	56363.	9193.2
Stddev	9.0	18.3	5367.	10.5
%RSD	.24402	.26813	9.5225	.11379
#1	3696.4	6848.4	52568.	9200.6
#2	3683.7	6822.5	60158.	9185.8

Sample Name: ICSAB-1086099 Acquired: 12/21/2012 14:26:14 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	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21732	493.40	.10560	.00039	.49679	.49509	461.89	1.0227	.49370	.49326	.53312	91.801	.04924
Stddev	.00217	2.52	.00098	.00074	.00254	.00201	.61	.0006	.00053	.00094	.00199	.556	.01581
%RSD	1.00000	.51029	.92910	188.48	.51102	.40524	.13294	.05808	.10720	.19069	.37242	.60588	32.114
#1	.21578	495.19	.10629	.00091	.49859	.49651	461.45	1.0231	.49407	.49259	.53172	92.194	.03806
#2	.21886	491.62	.10490	-.00013	.49500	.49367	462.32	1.0223	.49332	.49392	.53453	91.407	.06043
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	.01485	.52222	518.85	.47329	.00023	.05647	.98530	.05462	F -.1239	.60215	.05296	1.0520	.00040
Stddev	.00036	.00113	2.14	.00152	.00070	.00452	.00040	.00352	.0003	.00480	.00037	.0037	.00038
%RSD	2.4336	.21677	.41280	.32138	305.13	8.0026	.04064	6.4424	.2185	.79756	.69540	.35679	96.787
#1	.01510	.52302	517.33	.47221	.00073	.05966	.98558	.05711	-.1241	.59876	.05270	1.0547	.00012
#2	.01459	.52142	520.36	.47436	-.00027	.05327	.98501	.05213	-.1238	.60555	.05322	1.0494	.00067
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	.49685	.00427	.09746	.49527	.98612
Stddev	.00279	.00072	.00091	.00105	.00192
%RSD	.56169	16.928	.93321	.21182	.19472
#1	.49883	.00478	.09682	.49601	.98747
#2	.49488	.00376	.09811	.49453	.98476
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	2982.8	6096.8	53342.	8822.0
Stddev	.9	7.8	72.	94.1
%RSD	.03027	.12833	.13476	1.0661
#1	2983.5	6091.2	53393.	8755.5
#2	2982.2	6102.3	53291.	8888.5

Sample Name: CCV-1107667 Acquired: 12/21/2012 14:28:36 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	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49834	24.177	.48910	.48157	.49442	.49060	24.490	.48943	.47917	.49115	.49118	23.930	24.701
Stddev	.00241	.144	.00137	.00015	.00128	.00394	.091	.00233	.00156	.00032	.00003	.187	.187
%RSD	.48447	.59403	.27931	.03039	.25900	.80289	.37142	.47530	.32598	.06547	.00670	.77983	.75780
#1	.49663	24.278	.48814	.48147	.49533	.49339	24.554	.49108	.48027	.49138	.49116	24.062	24.834
#2	.50004	24.075	.49007	.48168	.49352	.48782	24.426	.48779	.47806	.49093	.49121	23.798	24.569
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	24.907	.49041	23.969	.49746	.49840	24.901	.48389	.48331	24.41	.49887	.48194	24.783	.51160
Stddev	.053	.00428	.054	.00243	.00218	.128	.00228	.00063	.12	.00002	.00280	.004	.00362
%RSD	.21205	.87261	.22624	.48940	.43817	.51316	.47160	.12962	.5100	.00473	.58158	.01534	.70746
#1	24.944	.49344	23.931	.49574	.49994	24.992	.48550	.48286	24.50	.49885	.48392	24.786	.51416
#2	24.870	.48738	24.007	.49918	.49686	24.811	.48227	.48375	24.32	.49889	.47996	24.780	.50904
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	.49104	.49974	.49408	.49507	.49377
Stddev	.00226	.00053	.00441	.00173	.00360
%RSD	.46004	.10600	.89191	.34888	.72847
#1	.49264	.49937	.49719	.49385	.49122
#2	.48944	.50012	.49096	.49629	.49631
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	3663.4	6803.5	60357.	9115.8
Stddev	13.8	19.5	127.	8.5
%RSD	.37578	.28596	.21121	.09350
#1	3653.6	6789.8	60447.	9109.8
#2	3673.1	6817.3	60267.	9121.9

Sample Name: CCB-1118274 Acquired: 12/21/2012 14:30:49 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	-.00022	.00198	-.00138	-.00024	.00002	.00003	.00359	-.00010	.00001	.00034	-.00002	.00246	.03229
Stddev	.00028	.02004	.00104	.00024	.00003	.00001	.00018	.00017	.00004	.00025	.00015	.00286	.01089
%RSD	124.35	1014.0	74.797	103.51	124.16	18.439	5.0452	159.84	459.52	73.670	660.06	116.12	33.710
#1	-.00003	-.01219	-.00065	-.00041	.00000	.00003	.00372	.00001	-.00002	.00016	.00008	.00044	.02459
#2	-.00042	.01614	-.00212	-.00006	.00004	.00002	.00346	-.00022	.00004	.00052	-.00013	.00448	.03999
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	.00190	.00036	.01018	.00001	.00017	.00298	.00051	.00107	.0017	.00122	-.00049	.01091	.00057
Stddev	.00087	.00006	.00011	.00008	.00033	.00320	.00027	.00094	.0008	.00040	.00330	.00426	.00041
%RSD	45.656	17.689	1.0640	1203.8	195.91	107.36	54.089	88.260	47.19	32.935	669.61	39.047	72.964
#1	.00128	.00032	.01011	-.00005	-.00006	.00072	.00070	.00173	.0011	.00093	-.00282	.01392	.00086
#2	.00251	.00041	.01026	.00006	.00040	.00524	.00031	.00040	.0023	.00150	.00184	.00790	.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	-.00001	.00002	-.00100	-.00014	.00047
Stddev	.00002	.00020	.00135	.00026	.00004
%RSD	170.50	845.35	135.64	188.95	7.6644
#1	.00000	-.00012	-.00004	-.00032	.00044
#2	-.00003	.00016	-.00196	.00005	.00049
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	4027.2	7014.8	62891.	9195.2
Stddev	22.5	33.9	17.	32.4
%RSD	.55800	.48345	.02724	.35270
#1	4043.1	7038.8	62903.	9218.1
#2	4011.3	6990.9	62879.	9172.2

Sample Name: MB 480-97024/1-A Acquired: 12/21/2012 14:33:06 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	**.00023**	**-.00981**	**.00000**	**.00020**	**.00010**	**.00002**	**.00570**	**.00004**	**-.00003**
Stddev	.00031	.00882	.0024	.00005	.00004	.00006	.00180	.00010	.00002
%RSD	132.46	89.861	197300.	24.032	42.989	320.31	31.639	275.01	86.693
#1	.00045	-.01605	.00168	.00016	.00013	-.00002	.00443	.00011	-.00004
#2	.00001	-.00358	-.00168	.00023	.00007	.00006	.00698	-.00004	-.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	**.00075**	**-.00002**	**.00244**	**-.00771**	**.00130**	**-.00022**	**.04380**	F **.00039**	**.00006**
Stddev	.00010	.00001	.00093	.01261	.00005	.00005	.00660	.00003	.00005
%RSD	13.376	28.205	37.973	163.61	4.1732	23.513	15.074	8.6979	73.247
#1	.00082	-.00002	.00309	-.01663	.00127	-.00025	.04846	.00037	.00003
#2	.00068	-.00002	.00178	.00121	.00134	-.00018	.03913	.00042	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit								.00035	
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	**-.04098**	**.00009**	**.00046**	**-.0012**	**.00121**	**.00240**	**-.00409**	**.00027**	**-.00017**
Stddev	.00379	.00023	.00068	.0005	.00084	.00050	.01048	.00014	.00001
%RSD	9.2583	261.19	148.52	41.04	69.826	21.017	255.99	51.902	5.9506
#1	-.04367	.00025	-.00002	-.0009	.00061	.00204	.00332	.00037	-.00018
#2	-.03830	-.00007	.00094	-.0016	.00180	.00275	-.01150	.00017	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	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	**-.00012**	**-.00053**	**-.00004**	**.00089**
Stddev	.00026	.00111	.00003	.00003
%RSD	221.37	211.09	68.387	3.8190
#1	.00007	-.00131	-.00002	.00091
#2	-.00030	.00026	-.00006	.00086
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	**4023.2**	**7038.7**	**61003.**	**9308.7**
Stddev	7.6	17.0	2861.	65.6
%RSD	.18985	.24119	4.6904	.70501
#1	4028.6	7050.7	58980.	9355.1
#2	4017.8	7026.7	63026.	9262.3

Sample Name: LCS 480-97024/2-A Acquired: 12/21/2012 14:35:22 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	**.05216**	**10.125**	**.20395**	**.20585**	**.21417**	**.20970**	**10.134**	**.20492**	**.20516**
Stddev	.00110	.064	.00377	.00064	.00043	.00005	.018	.00004	.00030
%RSD	2.1095	.63163	1.8480	.31211	.20055	.02191	.17855	.01795	.14569
#1	.05294	10.080	.20661	.20539	.21387	.20967	10.122	.20489	.20537
#2	.05139	10.170	.20128	.20630	.21447	.20973	10.147	.20494	.20495
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	**.20866**	**.20743**	**10.057**	**10.179**	**9.7724**	**.20512**	**10.360**	**.21066**	**.21261**
Stddev	.00004	.00053	.015	.067	.1299	.00072	.020	.00108	.00023
%RSD	.01824	.25666	.14699	.66068	1.3289	.35330	.19096	.51119	.10921
#1	.20863	.20706	10.067	10.132	9.6806	.20563	10.346	.20990	.21245
#2	.20868	.20781	10.046	10.227	9.8643	.20461	10.374	.21142	.21277
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	**10.337**	**.20331**	**.20388**	F **-.0039**	**.20737**	**.19797**	**10.336**	**.20432**	**.20465**
Stddev	.003	.00006	.00022	.0039	.00038	.00285	.026	.00080	.00010
%RSD	.03089	.02777	.10606	100.2	.18141	1.4419	.24695	.39154	.04738
#1	10.340	.20335	.20373	-.0011	.20710	.19595	10.318	.20488	.20458
#2	10.335	.20327	.20403	-.0067	.20763	.19999	10.354	.20375	.20472
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	**.20398**	**.20904**	**.21207**	**.21237**
Stddev	.00003	.00375	.00148	.00016
%RSD	.01321	1.7934	.69804	.07739
#1	.20400	.21169	.21103	.21226
#2	.20396	.20639	.21312	.21249
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	**3826.2**	**6930.2**	**61200.**	**9311.1**
Stddev	4.8	.2	194.	15.9
%RSD	.12493	.00330	.31757	.17095
#1	3822.8	6930.3	61338.	9322.3
#2	3829.5	6930.0	61063.	9299.8

Sample Name: 480-30114-C-2-C Acquired: 12/21/2012 14:37:35 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	**-.00049**	**-.00890**	**-.00034**	**.03391**	**.01390**	**.00003**	**194.56**	**.00123**	**.00904**
Stddev	.00011	.01463	.00146	.00064	.00003	.00006	1.29	.00010	.00005
%RSD	23.643	164.33	424.54	1.8942	.24816	184.18	.66321	8.3688	.50508
#1	-.00040	-.01925	-.00137	.03437	.01392	.00007	193.65	.00130	.00907
#2	-.00057	.00144	.00069	.03346	.01387	-.00001	195.47	.00116	.00901
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**	**.00135**	**.56293**	**7.9448**	**9.0282**	**.00878**	**40.858**	**.58476**	**.00017**
Stddev	.00029	.00004	.00064	.0379	.0210	.00150	.158	.00232	.00009
%RSD	18.995	3.1737	.11385	.47696	.23218	17.143	.38653	.39741	55.409
#1	.00172	.00132	.56339	7.9181	9.0133	.00771	40.970	.58641	.00024
#2	.00132	.00138	.56248	7.9716	9.0430	.00984	40.746	.58312	.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	**4.1178**	**.02170**	**-.00142**	F **164.8**	**-.00055**	**.00301**	**5.8234**	**.00015**	**.48177**
Stddev	.0290	.00062	.00083	.3	.00121	.00372	.0393	.00003	.00386
%RSD	.70439	2.8475	58.512	.1986	217.70	123.57	.67533	19.810	.80210
#1	4.0973	.02214	-.00201	165.0	.00030	.00038	5.7956	.00013	.47904
#2	4.1383	.02126	-.00083	164.5	-.00141	.00565	5.8512	.00018	.48450
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	**.00107**	**.00036**	**.00054**	**.01720**
Stddev	.00045	.00009	.00007	.00012
%RSD	41.708	25.992	12.322	.70753
#1	.00139	.00043	.00049	.01712
#2	.00076	.00029	.00058	.01729
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	**3573.1**	**6577.8**	**58854.**	**9058.6**
Stddev	3.6	12.8	272.	39.8
%RSD	.10053	.19507	.46156	.43971
#1	3570.6	6568.7	58662.	9086.8
#2	3575.7	6586.9	59046.	9030.5

Sample Name: 480-30115-A-2-B Acquired: 12/21/2012 14:39:53 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	**-.00060**	**27.868**	**.01083**	**.86001**	**.30080**	**.00110**	**450.71**	**-.00019**	**.01281**
Stddev	.00087	.192	.00300	.00014	.00118	.00013	3.20	.00003	.00007
%RSD	144.96	.68941	27.705	.01643	.39222	11.686	.70937	14.393	.56020
#1	.00001	28.004	.00871	.85991	.30163	.00119	452.97	-.00017	.01286
#2	-.00121	27.732	.01296	.86011	.29996	.00101	448.45	-.00021	.01276
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	**.02718**	**.02767**	**23.479**	**14.511**	**31.188**	**.35090**	F **506.01**	**4.1807**	**.01427**
Stddev	.00081	.00054	.155	.052	.455	.00190	10.20	.0390	.00022
%RSD	2.9943	1.9450	.65861	.35756	1.4593	.54132	2.0153	.93267	1.5163
#1	.02776	.02805	23.589	14.548	31.510	.35225	513.22	4.2082	.01412
#2	.02661	.02728	23.370	14.475	30.866	.34956	498.80	4.1531	.01443
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	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	**1731.9**	**.02374**	**.00588**	F **1781.**	**-.00293**	**.00914**	**69.443**	**.00251**	**7.7312**
Stddev	5.1	.00029	.00280	.	.00033	.00433	.263	.00067	.0469
%RSD	.29597	1.2018	47.595	.0106	11.250	47.426	.37828	26.691	.60644
#1	1735.5	.02354	.00785	1781.	-.00316	.01220	69.629	.00298	7.7644
#2	1728.2	.02394	.00390	1781.	-.00270	.00607	69.257	.00204	7.6981
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	**.54042**	**.00403**	**.05133**	**.07573**
Stddev	.01207	.00078	.00054	.00076
%RSD	2.2329	19.355	1.0548	.99855
#1	.53189	.00458	.05171	.07626
#2	.54895	.00347	.05095	.07519
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	**2708.0**	**5803.4**	**50747.**	**8668.5**
Stddev	2.9	3.0	306.	27.1
%RSD	.10572	.05135	.60367	.31264
#1	2706.0	5805.5	50530.	8649.3
#2	2710.0	5801.3	50963.	8687.6

Sample Name: 480-30181-D-1-B Acquired: 12/21/2012 14:42:37 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	**-.00025**	**.66327**	**-.00124**	**.04897**	**.05977**	**.00006**	**133.62**	**.00040**	**.00052**
Stddev	.00004	.01678	.00138	.00015	.00010	.00010	.30	.00010	.00007
%RSD	15.944	2.5306	111.82	.29965	.16852	165.66	.22193	26.462	13.861
#1	-.00028	.65141	-.00221	.04886	.05984	-.00001	133.83	.00047	.00057
#2	-.00022	.67514	-.00026	.04907	.05970	.00014	133.41	.00032	.00046
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**	**.00257**	**.63511**	**1.0666**	**1.2666**	**.00803**	**27.553**	**.29607**	**.00087**
Stddev	.00035	.00025	.00352	.0284	.0113	.00105	.034	.00031	.00010
%RSD	14.676	9.7493	.55385	2.6577	.89059	13.054	.12472	.10414	11.590
#1	.00263	.00275	.63262	1.0466	1.2745	.00729	27.578	.29629	.00080
#2	.00213	.00239	.63760	1.0867	1.2586	.00877	27.529	.29585	.00094
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	**49.555**	**.00161**	**-.00075**	F **48.21**	**-.00142**	**.00179**	**4.0587**	**.00001**	**6.1754**
Stddev	.258	.00021	.00083	.10	.00079	.00072	.0056	.00007	.0140
%RSD	.52084	12.870	110.33	.2160	55.562	40.089	.13879	1247.1	.22730
#1	49.373	.00175	-.00133	48.29	-.00086	.00230	4.0548	-.00005	6.1853
#2	49.738	.00146	-.00016	48.14	-.00198	.00128	4.0627	.00006	6.1655
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	**.01824**	**.00184**	**.00083**	**.00702**
Stddev	.00028	.00147	.00016	.00046
%RSD	1.5158	79.957	19.183	6.5088
#1	.01843	.00080	.00094	.00734
#2	.01804	.00288	.00072	.00669
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	**3569.6**	**6611.9**	**58611.**	**9112.2**
Stddev	1.0	2.5	2.	16.1
%RSD	.02852	.03711	.00291	.17689
#1	3570.3	6613.6	58612.	9100.8
#2	3568.8	6610.1	58610.	9123.6

Sample Name: 480-30205-F-1-C Acquired: 12/21/2012 14:44:57 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	.00054	7.3933	.00027	.28255	.09000	.00021	60.205	-.00007	.00226
Stddev	.00018	.0300	.00088	.00037	.00007	.00006	.247	.00007	.00022
%RSD	32.878	.40595	325.95	.13253	.07833	30.281	.40949	100.39	9.8011
#1	.00066	7.3720	-.00035	.28228	.09005	.00026	60.031	-.00002	.00211
#2	.00041	7.4145	.00089	.28281	.08995	.00017	60.380	-.00012	.00242
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	.01065	.00750	4.2092	11.857	12.281	.00912	20.734	.37175	.00079
Stddev	.00018	.00024	.0220	.092	.051	.00016	.012	.00103	.00023
%RSD	1.6918	3.1371	.52256	.77486	.41313	1.7160	.05820	.27791	29.145
#1	.01078	.00767	4.1936	11.792	12.317	.00901	20.743	.37248	.00063
#2	.01052	.00733	4.2247	11.922	12.245	.00923	20.726	.37102	.00095
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	17.602	.00919	.00105	F 24.17	-.00010	.00019	12.883	.00079	.25595
Stddev	.107	.00038	.00014	.03	.00031	.00194	.060	.00007	.00145
%RSD	.60581	4.1084	13.720	.1372	297.75	1032.8	.46757	8.2195	.56637
#1	17.527	.00893	.00095	24.14	-.00032	.00156	12.840	.00084	.25492
#2	17.678	.00946	.00115	24.19	.00011	-.00118	12.925	.00075	.25697
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	.25930	.00300	.01035	.01648
Stddev	.00150	.00193	.00030	.00008
%RSD	.57872	64.477	2.9040	.47776
#1	.26036	.00163	.01014	.01654
#2	.25824	.00437	.01056	.01643
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	3699.8	6803.9	60335.	9183.9
Stddev	13.8	26.1	51.	28.5
%RSD	.37233	.38344	.08505	.31026
#1	3709.6	6822.4	60371.	9204.0
#2	3690.1	6785.5	60299.	9163.7

Sample Name: 480-30207-E-5-B Acquired: 12/21/2012 14:47:15 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	.00063	.05671	.00200	.04647	.09846	.00002	155.40	.00071	.00001
Stddev	.00010	.01208	.00180	.00085	.00255	.00003	1.56	.00003	.00015
%RSD	16.289	21.309	89.972	1.8344	2.5935	164.15	1.0054	3.7619	1027.8
#1	.00070	.06525	.00073	.04708	.09665	.00003	156.50	.00073	-.00009
#2	.00056	.04816	.00328	.04587	.10026	.00000	154.29	.00069	.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	.00222	.20942	.05258	1.6141	1.8672	.01571	29.347	2.6389	.01350
Stddev	.00009	.00564	.00264	.0073	.0102	.00067	.773	.0647	.00021
%RSD	4.1123	2.6940	5.0271	.44978	.54540	4.2631	2.6332	2.4527	1.5837
#1	.00228	.20543	.05072	1.6090	1.8744	.01524	28.801	2.5931	.01335
#2	.00215	.21341	.05445	1.6193	1.8600	.01619	29.894	2.6847	.01365
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	17.846	.00264	.00714	F 10.61	.00065	.00192	10.077	-.00026	.98622
Stddev	.097	.00035	.00045	.06	.00009	.00441	.084	.00008	.00734
%RSD	.54205	13.355	6.3383	.5981	13.988	229.62	.83710	32.482	.74408
#1	17.914	.00239	.00746	10.65	.00071	.00504	10.136	-.00020	.99141
#2	17.777	.00289	.00682	10.56	.00058	-.00120	10.017	-.00032	.98103
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	.00224	.00236	.00290	.10093
Stddev	.00057	.00075	.00046	.00189
%RSD	25.546	31.826	15.901	1.8770
#1	.00183	.00183	.00322	.09959
#2	.00264	.00289	.00257	.10227
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	3582.2	6628.6	59880.	9086.8
Stddev	15.8	34.8	1229.	92.5
%RSD	.44011	.52494	2.0531	1.0179
#1	3571.0	6604.0	60749.	9021.4
#2	3593.3	6653.2	59011.	9152.2

Sample Name: CCV Acquired: 12/21/2012 14:49:32 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	.49968	24.263	.48748	.48087	.49692	.49580	24.573	.48847	.48046	.49740	.49463	24.087	24.892
Stddev	.00221	.069	.00016	.00174	.00256	.00160	.116	.00110	.00144	.00109	.00001	.066	.070
%RSD	.44147	.28570	.03359	.36186	.51585	.32303	.47373	.22440	.29881	.21882	.00142	.27377	.27986
#1	.49812	24.214	.48760	.48210	.49511	.49466	24.491	.48924	.48147	.49663	.49463	24.040	24.941
#2	.50124	24.312	.48737	.47964	.49874	.49693	24.655	.48769	.47944	.49817	.49462	24.134	24.843
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	25.420	.49411	24.108	.50157	.49909	25.224	.48245	.48560	24.53	.49323	.47999	25.043	.51380
Stddev	.035	.00140	.098	.00100	.00023	.014	.00127	.00442	.01	.00480	.00032	.100	.00013
%RSD	.13792	.28367	.40715	.19850	.04626	.05629	.26424	.91101	.0226	.97273	.06699	.39843	.02472
#1	25.396	.49510	24.039	.50087	.49926	25.214	.48335	.48873	24.54	.49662	.48021	24.973	.51371
#2	25.445	.49311	24.178	.50227	.49893	25.234	.48155	.48247	24.53	.48984	.47976	25.114	.51389
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	.49509	.50457	.49405	.49854	.50178
Stddev	.00199	.00054	.00061	.00216	.00358
%RSD	.40188	.10666	.12361	.43291	.71346
#1	.49369	.50495	.49449	.50007	.50431
#2	.49650	.50419	.49362	.49701	.49925
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	3664.7	6825.6	59931.	9004.1
Stddev	2.5	4.9	122.	2.7
%RSD	.06768	.07219	.20292	.02976
#1	3666.4	6822.1	59845.	9002.2
#2	3662.9	6829.1	60017.	9006.0

Sample Name: CCB Acquired: 12/21/2012 14:51:48 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	.00034	.02612	-.00086	-.00006	.00006	.00026	.06482	-.00010	-.00007	.00044	.00011	.01338	.02787
Stddev	.00003	.00365	.00140	.00020	.00003	.00004	.01124	.00004	.00006	.00007	.00002	.00392	.01775
%RSD	7.6402	13.974	163.76	317.65	53.060	15.032	17.338	40.110	82.672	16.446	22.565	29.308	63.685
#1	.00032	.02870	.00014	.00008	.00008	.00029	.07277	-.00013	-.00011	.00049	.00009	.01615	.04043
#2	.00036	.02354	-.00185	-.00021	.00004	.00023	.05688	-.00007	-.00003	.00039	.00013	.01060	.01532
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	.00312	.00056	.01850	.00016	-.00004	.06392	.00041	.00032	F .0599	.00115	-.00226	.02167	-.00013
Stddev	.00077	.00116	.00740	.00006	.00009	.01042	.00014	.00029	.0030	.00123	.00215	.01291	.00015
%RSD	24.634	207.13	40.020	36.452	226.11	16.300	32.739	89.980	5.093	106.95	95.205	59.590	122.00
#1	.00367	.00138	.02374	.00021	.00002	.07129	.00051	.00052	.0620	.00028	-.00074	.03080	-.00002
#2	.00258	-.00026	.01327	.00012	-.00010	.05656	.00032	.00012	.0577	.00203	-.00378	.01254	-.00023
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	.00060	.00043	-.00057	-.00039	.00030
Stddev	.00019	.00016	.00145	.00002	.00033
%RSD	30.912	37.190	254.89	5.1299	112.50
#1	.00074	.00032	-.00159	-.00037	.00053
#2	.00047	.00055	.00046	-.00040	.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	4039.9	7048.3	62387.	9518.8
Stddev	4.7	11.7	579.	241.9
%RSD	.11746	.16574	.92745	2.5407
#1	4036.5	7040.0	62796.	9689.8
#2	4043.2	7056.5	61978.	9347.7

Sample Name: 480-30250-E-7-D Acquired: 12/21/2012 14:54:07 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	Ba4554-2	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**	**11.277**	**.00404**	**.04456**	**.17202**	**.00039**	**97.740**	**.00232**	**.00475**
Stddev	.00005	.112	.00443	.00037	.00066	.00007	.365	.00014	.00016
%RSD	8.3517	.99717	109.48	.83788	.38108	17.168	.37360	6.0408	3.4123
#1	-.00067	11.197	.00091	.04482	.17156	.00034	97.481	.00241	.00487
#2	-.00060	11.357	.00717	.04430	.17248	.00043	97.998	.00222	.00464
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	**.01461**	**.01597**	**14.007**	**5.3560**	**5.8001**	**.03286**	**33.531**	**.24680**	**.00701**
Stddev	.00075	.00001	.088	.0492	.0089	.00063	.245	.00171	.00004
%RSD	5.1186	.08100	.63054	.91850	.15287	1.9228	.73064	.69201	.50136
#1	.01514	.01596	13.945	5.3212	5.7939	.03331	33.358	.24559	.00699
#2	.01409	.01598	14.069	5.3908	5.8064	.03241	33.705	.24801	.00704
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	**11.915**	**.01469**	**.00362**	F **28.29**	**-.00133**	**.00166**	**27.135**	**.00096**	**.31941**
Stddev	.059	.00031	.00055	.17	.00468	.00250	.152	.00026	.00136
%RSD	.49917	2.1208	15.096	.6150	350.31	150.94	.56132	26.912	.42510
#1	11.873	.01447	.00401	28.42	.00197	.00343	27.027	.00077	.31845
#2	11.957	.01491	.00324	28.17	-.00464	-.00011	27.242	.00114	.32037
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	**.31033**	**-.00205**	**.01841**	**.04714**
Stddev	.02589	.00037	.00057	.00003
%RSD	8.3438	17.958	3.1007	.06381
#1	.29202	-.00179	.01801	.04716
#2	.32864	-.00231	.01882	.04712
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	**3625.2**	**6758.1**	**60394.**	**9097.6**
Stddev	20.5	34.6	171.	47.9
%RSD	.56569	.51195	.28249	.52662
#1	3610.7	6733.7	60514.	9131.5
#2	3639.8	6782.6	60273.	9063.7

Sample Name: 480-30250-E-8-D Acquired: 12/21/2012 14:56:19 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	.00047	24.094	.00742	.03594	.46500	.00065	110.04	-.00078	.00852
Stddev	.00044	.465	.00096	.00026	.00494	.00009	1.37	.00011	.00009
%RSD	93.787	1.9304	12.972	.71824	1.0634	14.054	1.2428	13.970	1.0846
#1	.00016	24.423	.00810	.03576	.46849	.00071	111.01	-.00085	.00858
#2	.00079	23.765	.00674	.03613	.46150	.00058	109.07	-.00070	.00845
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	.03313	.02238	23.816	9.4117	10.537	.05023	38.103	.30986	.01224
Stddev	.00057	.00026	.267	.1194	.205	.00087	.521	.00413	.00016
%RSD	1.7232	1.1767	1.1206	1.2683	1.9428	1.7243	1.3676	1.3339	1.3167
#1	.03353	.02257	24.005	9.4961	10.681	.05084	38.472	.31279	.01235
#2	.03273	.02219	23.627	9.3273	10.392	.04962	37.735	.30694	.01213
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	28.014	.02758	.00054	F 16.71	-.00134	.00646	53.105	.00282	.30639
Stddev	.332	.00096	.00392	.01	.00147	.00275	.311	.00039	.00294
%RSD	1.1852	3.4749	726.26	.0452	109.66	42.518	.58612	13.764	.95820
#1	28.248	.02826	-.00223	16.71	-.00030	.00840	53.325	.00309	.30847
#2	27.779	.02690	.00331	16.70	-.00237	.00452	52.885	.00254	.30432
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	.96732	-.00137	.04292	.06240
Stddev	.03193	.00290	.00092	.00068
%RSD	3.3011	211.58	2.1417	1.0868
#1	.94474	.00068	.04357	.06288
#2	.98990	-.00343	.04227	.06192
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	3560.9	6758.6	59634.	9162.6
Stddev	.6	.1	456.	84.0
%RSD	.01671	.00162	.76509	.91713
#1	3560.5	6758.6	59311.	9103.2
#2	3561.3	6758.7	59956.	9222.1

Sample Name: 480-30138-B-2-B Acquired: 12/21/2012 14:58:42 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	F **5.1627**	**-.00594**	**.00093**	**.00004**	**.00360**	**.00009**	**2.2641**	**-.00019**	**-.00006**
Stddev	.0047	.02356	.00035	.00005	.00000	.00001	.0122	.00008	.00003
%RSD	.09170	397.02	37.431	119.40	.06297	9.1923	.53789	43.247	50.085
#1	5.1593	-.02260	.00118	.00008	.00360	.00009	2.2727	-.00013	-.00004
#2	5.1660	.01073	.00069	.00001	.00359	.00010	2.2555	-.00025	-.00008
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000								
Low Limit	-.00300								

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	**.00069**	**.00026**	**.00719**	**.07742**	**.04641**	**-.00131**	**.78900**	**.00050**	**-.00002**
Stddev	.00042	.00022	.00159	.00644	.00070	.00077	.00075	.00000	.00022
%RSD	60.727	87.142	22.096	8.3176	1.5058	58.734	.09476	.31706	1063.6
#1	.00039	.00010	.00607	.07287	.04592	-.00077	.78848	.00050	.00013
#2	.00099	.00042	.00832	.08198	.04691	-.00186	.78953	.00050	-.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	**.50353**	**.00043**	**.00108**	**.4581**	**.00061**	**.00075**	**.10627**	**.00402**	**.02687**
Stddev	.01902	.00032	.00142	.0016	.00190	.00080	.01076	.00022	.00017
%RSD	3.7774	74.135	130.84	.3448	308.50	106.77	10.129	5.4765	.63798
#1	.51698	.00020	.00208	.4570	.00196	.00132	.11388	.00418	.02699
#2	.49008	.00065	.00008	.4592	-.00073	.00018	.09866	.00386	.02675
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	**.00031**	**.00030**	**-.00034**	**.00437**
Stddev	.00024	.00017	.00059	.00002
%RSD	76.296	56.786	173.77	.38176
#1	.00014	.00018	-.00075	.00435
#2	.00048	.00041	.00008	.00438
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	**4043.3**	**7098.2**	**62945.**	**9185.1**
Stddev	14.4	18.7	48.	47.6
%RSD	.35633	.26332	.07587	.51870
#1	4053.5	7111.4	62912.	9151.4
#2	4033.1	7085.0	62979.	9218.7

Sample Name: 480-30630-F-1-A Acquired: 12/21/2012 15:00:58 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	.02306	.05157	.00016	.01641	.05914	-.00001	124.04	.00019	.00019
Stddev	.00345	.00260	.00625	.00006	.00245	.00007	.16	.00014	.00000
%RSD	14.945	5.0398	3820.3	.35331	4.1360	720.18	.12819	73.869	.28474
#1	.02062	.05341	-.00426	.01637	.05741	-.00006	124.16	.00029	.00018
#2	.02549	.04973	.00458	.01645	.06087	.00004	123.93	.00009	.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	.00128	.00515	.05895	5.5456	6.1806	.00258	41.769	.01386	.00047
Stddev	.00060	.00043	.00181	.0407	.0191	.00057	1.748	.00061	.00017
%RSD	46.769	8.3639	3.0699	.73401	.30908	22.252	4.1862	4.3742	37.230
#1	.00086	.00485	.05767	5.5744	6.1671	.00217	40.533	.01344	.00034
#2	.00171	.00546	.06023	5.5168	6.1941	.00299	43.005	.01429	.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	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	5.4258	.00112	-.00094	F 60.58	.00000	.00293	4.5488	-.00007	.46499
Stddev	.0407	.00007	.00045	.18	.00021	.00222	.0178	.00011	.00081
%RSD	.74931	6.6036	47.236	.2989	18110.	75.716	.39154	161.99	.17384
#1	5.4545	.00106	-.00126	60.71	-.00015	.00449	4.5613	.00001	.46556
#2	5.3970	.00117	-.00063	60.46	.00015	.00136	4.5362	-.00015	.46441
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	.00161	.00211	.00049	.00331
Stddev	.00005	.00140	.00017	.00034
%RSD	3.3401	66.300	33.682	10.385
#1	.00165	.00310	.00061	.00307
#2	.00157	.00112	.00037	.00355
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	3615.3	6641.0	58374.	9051.5
Stddev	9.4	11.0	1838.	36.3
%RSD	.25919	.16585	3.1492	.40093
#1	3608.6	6633.2	59674.	9025.8
#2	3621.9	6648.8	57074.	9077.1

Sample Name: 480-30630-F-1-A SD@5 Acquired: 12/21/2012 15:03:11 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	.01708	-.00860	.00113	.00211	.01202	.00005	25.011	-.00006	-.00019
Stddev	.00163	.00538	.00118	.00051	.00034	.00005	.056	.00001	.00010
%RSD	9.5189	62.542	103.74	24.188	2.8453	101.75	.22400	19.320	54.548
#1	.01593	-.01241	.00196	.00247	.01226	.00009	24.971	-.00005	-.00011
#2	.01823	-.00480	.00030	.00175	.01178	.00001	25.050	-.00007	-.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	.00077	.00079	.01470	1.1291	.97589	-.00015	8.3857	.00265	-.00009
Stddev	.00029	.00061	.00347	.0048	.00509	.00016	.2568	.00009	.00003
%RSD	37.519	77.787	23.603	.42698	.52159	108.84	3.0621	3.5768	29.933
#1	.00097	.00122	.01225	1.1257	.97949	-.00026	8.5673	.00271	-.00007
#2	.00056	.00035	.01715	1.1325	.97229	-.00003	8.2042	.00258	-.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	1.0438	.00025	-.00076	F 11.74	.00036	.00168	.89753	-.00005	.09299
Stddev	.0037	.00041	.00120	.00	.00096	.00196	.00994	.00023	.00002
%RSD	.35246	167.06	158.41	.0155	270.83	117.07	1.1079	510.78	.02144
#1	1.0412	-.00004	-.00160	11.74	-.00033	.00307	.89050	-.00021	.09300
#2	1.0464	.00054	.00009	11.74	.00104	.00029	.90456	.00012	.09297
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	.00036	-.00169	.00017	.00129
Stddev	.00023	.00016	.00018	.00011
%RSD	64.075	9.3499	111.22	8.2503
#1	.00053	-.00158	.00030	.00137
#2	.00020	-.00180	.00004	.00122
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	3876.9	6904.1	59903.	9064.0
Stddev	4.1	4.6	1400.	26.7
%RSD	.10653	.06702	2.3367	.29443
#1	3879.9	6900.8	58913.	9082.9
#2	3874.0	6907.3	60892.	9045.1

Sample Name: 480-30630-F-1-A PDS Acquired: 12/21/2012 15:05:25 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	.06208	10.294	.21259	.22352	.26548	.21102	129.80	.20761	.20527
Stddev	.00225	.084	.00160	.00098	.00076	.00032	.23	.00054	.00014
%RSD	3.6289	.81371	.75120	.44007	.28743	.14998	.17485	.25915	.06921
#1	.06049	10.235	.21372	.22282	.26494	.21079	129.64	.20723	.20537
#2	.06368	10.353	.21146	.22421	.26602	.21124	129.96	.20799	.20517
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	.20660	.21358	10.091	15.584	17.722	.21051	49.693	.21850	.21398
Stddev	.00241	.00141	.013	.040	.084	.00000	.034	.00052	.00040
%RSD	1.1680	.66201	.12675	.25818	.47290	.00086	.06896	.23790	.18689
#1	.20489	.21258	10.100	15.556	17.663	.21051	49.668	.21814	.21370
#2	.20831	.21458	10.082	15.613	17.782	.21051	49.717	.21887	.21426
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	15.710	.20309	.20319	F 58.65	.21048	.20769	15.006	.20864	.65015
Stddev	.001	.00105	.00020	.14	.00194	.00112	.041	.00126	.00253
%RSD	.00709	.51516	.10015	.2312	.92229	.53980	.27619	.60515	.38988
#1	15.710	.20235	.20304	58.56	.21185	.20848	14.977	.20775	.64836
#2	15.709	.20383	.20333	58.75	.20910	.20689	15.035	.20954	.65194
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	.20628	.20807	.21061	.21420
Stddev	.00089	.00011	.00066	.00167
%RSD	.42940	.05463	.31463	.78002
#1	.20565	.20799	.21014	.21302
#2	.20690	.20815	.21108	.21538
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	3553.6	6682.1	59217.	9143.7
Stddev	9.8	23.3	121.	2.8
%RSD	.27478	.34806	.20436	.03011
#1	3560.5	6698.6	59303.	9141.7
#2	3546.7	6665.7	59132.	9145.6

Sample Name: 480-30630-F-1-B MS Acquired: 12/21/2012 15:07:36 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	**.06368**	**10.188**	**.21155**	**.22593**	**.26709**	**.21258**	**132.67**	**.20836**	**.20499**
Stddev	.00109	.026	.00008	.00109	.00140	.00102	.35	.00045	.00054
%RSD	1.7130	.25832	.03695	.48157	.52573	.47967	.26464	.21523	.26153
#1	.06291	10.207	.21161	.22670	.26809	.21330	132.92	.20868	.20537
#2	.06446	10.170	.21150	.22516	.26610	.21186	132.43	.20804	.20461
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	**.20637**	**.21319**	**10.132**	**15.892**	**17.816**	**.21115**	**50.514**	**.21822**	**.21439**
Stddev	.00088	.00041	.034	.065	.501	.00118	.168	.00152	.00066
%RSD	.42848	.19314	.33806	.40694	2.8112	.55723	.33284	.69772	.30961
#1	.20575	.21348	10.157	15.938	18.170	.21198	50.633	.21930	.21486
#2	.20700	.21290	10.108	15.846	17.462	.21031	50.395	.21714	.21392
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	**15.933**	**.20409**	**.20603**	F **59.85**	**.21259**	**.20275**	**15.053**	**.20769**	**.66586**
Stddev	.064	.00062	.00277	.24	.00017	.00616	.104	.00094	.00056
%RSD	.40447	.30412	1.3468	.4045	.07982	3.0405	.69364	.45079	.08442
#1	15.979	.20365	.20799	60.03	.21271	.20711	15.127	.20835	.66626
#2	15.888	.20453	.20406	59.68	.21247	.19839	14.980	.20703	.66546
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	**.20695**	**.20754**	**.21167**	**.20959**
Stddev	.00058	.00024	.00025	.00139
%RSD	.27875	.11631	.11686	.66297
#1	.20736	.20771	.21184	.21057
#2	.20654	.20736	.21149	.20861
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	**3523.6**	**6632.3**	**59025.**	**9036.9**
Stddev	2.0	1.7	259.	61.1
%RSD	.05654	.02495	.43924	.67585
#1	3525.0	6631.1	58841.	8993.7
#2	3522.2	6633.4	59208.	9080.1

Sample Name: 480-30630-F-1-C MSD Acquired: 12/21/2012 15:09:47 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	**.06113**	**10.049**	**.20821**	**.22167**	**.25749**	**.21199**	**129.13**	**.20561**	**.20233**
Stddev	.00106	.041	.00343	.00103	.00040	.00046	.04	.00023	.00097
%RSD	1.7290	.41105	1.6471	.46569	.15427	.21927	.03442	.11252	.48018
#1	.06039	10.020	.21063	.22240	.25777	.21166	129.10	.20578	.20301
#2	.06188	10.078	.20578	.22094	.25721	.21232	129.16	.20545	.20164
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	**.20069**	**.20742**	**10.095**	**15.643**	**17.455**	**.20968**	**48.222**	**.21131**	**.21170**
Stddev	.00056	.00071	.017	.023	.198	.00048	.058	.00061	.00081
%RSD	.27816	.34214	.16506	.14681	1.1320	.23032	.11957	.29052	.38179
#1	.20109	.20792	10.083	15.626	17.315	.20934	48.182	.21175	.21228
#2	.20030	.20692	10.107	15.659	17.595	.21002	48.263	.21088	.21113
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	**15.698**	**.20113**	**.20123**	F **57.91**	**.20810**	**.20089**	**14.790**	**.20611**	**.65214**
Stddev	.048	.00186	.00019	.07	.00274	.00341	.125	.00044	.00004
%RSD	.30604	.92659	.09620	.1265	1.3157	1.6967	.84283	.21389	.00652
#1	15.664	.20244	.20137	57.85	.21004	.19848	14.702	.20580	.65211
#2	15.732	.19981	.20110	57.96	.20616	.20330	14.878	.20643	.65217
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	**.20216**	**.20530**	**.20576**	**.20520**
Stddev	.00030	.00215	.00033	.00078
%RSD	.14919	1.0482	.16119	.38009
#1	.20194	.20378	.20553	.20465
#2	.20237	.20682	.20600	.20575
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	**3546.2**	**6667.9**	**59754.**	**8954.8**
Stddev	9.7	15.0	214.	33.3
%RSD	.27298	.22498	.35843	.37210
#1	3553.1	6678.5	59603.	8978.3
#2	3539.4	6657.3	59906.	8931.2

Sample Name: 480-30428-E-4-D Acquired: 12/21/2012 15:11:58 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	.00867	10.696	.00413	.02428	.15048	.00029	73.531	.00015	.00398
Stddev	.00014	.015	.00217	.00019	.00108	.00000	.272	.00004	.00014
%RSD	1.5666	.14472	52.488	.79667	.71637	1.6604	.37019	30.852	3.4814
#1	.00857	10.707	.00567	.02441	.15124	.00028	73.723	.00011	.00408
#2	.00876	10.685	.00260	.02414	.14972	.00029	73.338	.00018	.00388
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	.01389	.01572	12.656	4.9963	5.0201	.01247	17.734	.19984	.00153
Stddev	.00044	.00006	.095	.0707	.0492	.00015	.124	.00186	.00055
%RSD	3.1316	.35221	.74911	1.4144	.98068	1.2370	.70151	.92950	36.035
#1	.01359	.01568	12.723	5.0463	5.0549	.01257	17.822	.20115	.00114
#2	.01420	.01576	12.589	4.9463	4.9852	.01236	17.646	.19853	.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	4.2415	.01321	.00412	F 29.14	-.00077	.00328	23.107	.00092	.13760
Stddev	.0689	.00063	.00206	.02	.00103	.00126	.131	.00050	.00040
%RSD	1.6234	4.7331	49.937	.0634	133.95	38.534	.56552	53.687	.28967
#1	4.2902	.01277	.00557	29.13	-.00150	.00417	23.199	.00057	.13788
#2	4.1928	.01365	.00266	29.16	-.00004	.00239	23.014	.00127	.13732
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	.34796	-.00066	.01915	.04844
Stddev	.00848	.00069	.00036	.00056
%RSD	2.4382	104.82	1.8899	1.1636
#1	.35395	-.00115	.01940	.04884
#2	.34196	-.00017	.01889	.04804
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	3711.6	6822.0	60355.	9205.2
Stddev	8.3	20.1	283.	68.2
%RSD	.22481	.29390	.46910	.74100
#1	3717.5	6836.2	60155.	9157.0
#2	3705.7	6807.8	60555.	9253.4

Sample Name: 480-30428-E-5-F Acquired: 12/21/2012 15:14:08 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	.00705	20.374	.00799	.07438	.23074	.00069	121.80	-.00021	.00830
Stddev	.00021	.578	.00005	.00087	.00226	.00005	3.00	.00027	.00017
%RSD	3.0026	2.8389	.66669	1.1755	.97802	7.8536	2.4628	128.81	2.0775
#1	.00690	20.783	.00803	.07376	.23234	.00072	123.92	-.00002	.00842
#2	.00720	19.965	.00795	.07500	.22915	.00065	119.68	-.00040	.00818
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	.02387	.02963	22.111	8.7074	9.3969	.03213	33.672	.45815	.00608
Stddev	.00042	.00008	.604	.2657	.1390	.00144	.387	.00444	.00013
%RSD	1.7586	.28314	2.7321	3.0509	1.4796	4.4667	1.1499	.96881	2.1268
#1	.02417	.02969	22.538	8.8953	9.4952	.03314	33.946	.46129	.00599
#2	.02357	.02957	21.684	8.5196	9.2986	.03111	33.398	.45501	.00617
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	10.851	.02529	.00615	F 58.78	-.00162	.00541	42.152	.00197	.22463
Stddev	.292	.00080	.00134	.39	.00086	.00648	1.430	.00054	.00582
%RSD	2.6868	3.1785	21.785	.6579	52.837	119.62	3.3935	27.545	2.5912
#1	11.057	.02585	.00710	58.51	-.00223	.00999	43.163	.00159	.22874
#2	10.644	.02472	.00520	59.06	-.00102	.00083	41.140	.00236	.22051
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	.60300	.00045	.03468	.10210
Stddev	.02076	.00017	.00112	.00032
%RSD	3.4431	38.285	3.2214	.31316
#1	.58832	.00057	.03547	.10232
#2	.61768	.00033	.03389	.10187
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	3584.7	6726.0	59992.	9013.5
Stddev	29.1	39.9	268.	185.5
%RSD	.81290	.59286	.44617	2.0583
#1	3605.3	6754.2	59803.	8882.3
#2	3564.1	6697.9	60182.	9144.6

Sample Name: CCV Acquired: 12/21/2012 15:16:27 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	.50612	24.167	.49623	.48614	.49847	.49759	24.556	.49533	.48404	.49472	.48928	24.208	25.083
Stddev	.00469	.095	.00182	.00712	.00115	.00399	.116	.00653	.00631	.00164	.00282	.139	.153
%RSD	.92742	.39268	.36747	1.4647	.23009	.80118	.47223	1.3189	1.3041	.33134	.57649	.57307	.61173
#1	.50944	24.100	.49494	.48110	.49765	.49477	24.474	.49071	.47958	.49587	.49127	24.110	24.974
#2	.50281	24.234	.49752	.49117	.49928	.50041	24.638	.49995	.48851	.49356	.48728	24.306	25.191
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	25.311	.49591	23.966	.49614	.50639	25.426	.48836	.48734	24.71	.50279	.48421	25.303	.51878
Stddev	.293	.00189	.164	.00319	.00774	.169	.00593	.00243	.36	.00882	.00642	.280	.00772
%RSD	1.1572	.38040	.68602	.64254	1.5275	.66485	1.2151	.49887	1.458	1.7535	1.3251	1.1049	1.4888
#1	25.104	.49457	24.082	.49839	.50092	25.307	.48417	.48562	24.45	.49655	.47968	25.105	.51332
#2	25.518	.49724	23.850	.49388	.51186	25.546	.49256	.48906	24.96	.50902	.48875	25.500	.52424
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	.49671	.50474	.50036	.49746	.50069
Stddev	.00254	.00257	.01032	.00536	.00147
%RSD	.51041	.50832	2.0619	1.0781	.29387
#1	.49492	.50656	.49307	.50125	.50173
#2	.49850	.50293	.50766	.49367	.49965
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	3640.8	6773.9	60229.	8968.6
Stddev	40.2	68.8	132.	101.6
%RSD	1.1045	1.0164	.21844	1.1330
#1	3669.2	6822.6	60136.	9040.5
#2	3612.4	6725.3	60322.	8896.8

Sample Name: CCB Acquired: 12/21/2012 15:18:41 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	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .00709	.01093	-.00385	-.00025	.00002	.00003	.00033	.00000	-.00014	.00053	-.00021	.00751
Stddev	.00121	.00282	.00152	.00007	.00003	.00004	.00109	.00016	.00008	.00008	.00010	.00198
%RSD	17.068	25.825	39.480	28.363	143.75	130.49	331.19	3569.6	58.546	14.732	48.974	26.327
#1	.00623	.01292	-.00493	-.00030	.00004	.00000	-.00044	.00012	-.00019	.00058	-.00029	.00611
#2	.00794	.00893	-.00278	-.00020	.00000	.00006	.00110	-.00011	-.00008	.00047	-.00014	.00891
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.00300											
Low Limit	-.00300											

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	.02072	.00426	-.00088	.00288	.00003	-.00001	-.00112	-.00027	-.00082	F .0237	-.00005	.00307
Stddev	.00028	.00068	.00004	.00349	.00004	.00009	.00663	.00029	.00026	.0027	.00095	.00137
%RSD	1.3451	15.944	4.4308	121.16	116.97	1439.6	589.32	108.15	31.340	11.49	2083.3	44.497
#1	.02053	.00474	-.00086	.00041	.00006	.00006	.00356	-.00047	-.00101	.0257	.00063	.00403
#2	.02092	.00378	-.00091	.00535	.00001	-.00007	-.00581	-.00006	-.00064	.0218	-.00072	.00210
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
High Limit										.0030		
Low Limit										-.0040		

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01741	.00024	.00003	.00049	-.00174	-.00022	.00017
Stddev	.00107	.00010	.00005	.00029	.00266	.00018	.00017
%RSD	6.1583	41.506	158.77	58.611	152.86	80.962	100.37
#1	.01665	.00017	.00000	.00070	.00014	-.00034	.00029
#2	.01816	.00031	.00007	.00029	-.00362	-.00009	.00005
Check ?	Chk Pass	Chk Pass	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	3951.8	6901.3	61831.	9102.7
Stddev	78.8	147.2	347.	6.2
%RSD	1.9946	2.1333	.56059	.06834
#1	3896.1	6797.2	61585.	9107.1
#2	4007.6	7005.4	62076.	9098.3

Sample Name: MB 480-97037/1-A Acquired: 12/21/2012 15:21:00 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 .00493	.00151	-.00078	-.00067	F .00136	-.00004	.02398	-.00006	-.00009
Stddev	.00006	.00240	.00213	.00028	.00003	.00000	.00128	.00001	.00006
%RSD	1.2654	158.94	274.27	42.123	2.1885	12.693	5.3403	22.344	63.809
#1	.00489	.00320	.00073	-.00047	.00134	-.00004	.02307	-.00007	-.00014
#2	.00498	-.00019	-.00229	-.00086	.00138	-.00004	.02488	-.00005	-.00005
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.00220				.00048				
Low Limit	-.00400				-.00300				

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	.00053	-.00040	.00259	.02584	.00244	-.00061	.00452	F .00038	-.00003
Stddev	.00009	.00017	.00050	.01677	.00018	.00047	.00361	.00001	.00013
%RSD	17.911	42.842	19.308	64.910	7.5760	78.315	79.779	3.0077	455.87
#1	.00059	-.00052	.00223	.01398	.00257	-.00094	.00707	.00039	-.00012
#2	.00046	-.00028	.00294	.03770	.00231	-.00027	.00197	.00037	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit								.00035	
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	-.02225	-.00002	.00135	F .0204	.00204	.00211	.01073	.00037	.00100
Stddev	.00214	.00026	.00199	.0021	.00175	.00047	.00799	.00012	.00002
%RSD	9.6341	1100.9	147.84	10.41	85.532	22.388	74.463	31.388	2.4322
#1	-.02073	-.00021	.00276	.0189	.00081	.00245	.01639	.00029	.00098
#2	-.02376	.00016	-.00006	.0219	.00328	.00178	.00508	.00045	.00101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit				.0022					
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	.00026	-.00187	-.00022	.00406
Stddev	.00015	.00045	.00005	.00018
%RSD	57.305	24.024	24.015	4.3745
#1	.00036	-.00155	-.00026	.00418
#2	.00015	-.00219	-.00018	.00393
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	7037.3	63085.	9181.5
Stddev	10.5	4.5	162.	19.8
%RSD	.26136	.06375	.25667	.21547
#1	4008.7	7034.2	62971.	9195.4
#2	4023.6	7040.5	63200.	9167.5

Sample Name: LCS 480-97037/2-A Acquired: 12/21/2012 15:23:16 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	.05563	10.308	.20085	.20121	.20718	.21645	10.345	.20250	.20191
Stddev	.00092	.483	.00338	.00205	.00153	.01045	.488	.00127	.00111
%RSD	1.6547	4.6890	1.6846	1.0164	.74004	4.8292	4.7188	.62692	.55112
#1	.05498	9.9663	.20324	.19977	.20609	.20906	10.000	.20161	.20113
#2	.05628	10.650	.19846	.20266	.20826	.22384	10.691	.20340	.20270
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	.20457	.20341	10.374	10.397	9.9327	.21083	10.058	.20492	.21118
Stddev	.00050	.00134	.498	.482	.2425	.01030	.079	.00133	.00191
%RSD	.24445	.65973	4.8008	4.6314	2.4419	4.8870	.78847	.64948	.90440
#1	.20492	.20246	10.021	10.056	9.7612	.20354	10.002	.20398	.20983
#2	.20421	.20435	10.726	10.737	10.104	.21811	10.114	.20586	.21253
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	10.610	.19920	.19954	F .0201	.20528	.19569	10.786	.20075	.20897
Stddev	.481	.00028	.00169	.0008	.00054	.00201	.514	.00144	.00934
%RSD	4.5380	.13905	.84469	4.071	.26447	1.0263	4.7647	.71505	4.4698
#1	10.270	.19900	.19835	.0195	.20567	.19427	10.423	.19973	.20236
#2	10.951	.19939	.20073	.0207	.20490	.19711	11.150	.20176	.21557
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	.20072	.20376	.20586	.20810
Stddev	.00036	.00172	.00099	.00006
%RSD	.18101	.84523	.48262	.02663
#1	.20046	.20254	.20516	.20814
#2	.20097	.20498	.20656	.20806
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	3822.8	6936.3	61701.	8995.6
Stddev	16.4	33.3	209.	337.5
%RSD	.42784	.48062	.33850	3.7516
#1	3834.4	6959.9	61849.	9234.2
#2	3811.3	6912.8	61553.	8757.0

Sample Name: 480-30609-A-1-A Acquired: 12/21/2012 15:25:27 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	.00473	.27814	-.00007	.10351	.02116	.00002	30.259	.00066	.00037
Stddev	.00068	.00777	.00115	.00010	.00012	.00000	.097	.00002	.00024
%RSD	14.448	2.7951	1540.6	.10083	.58526	12.551	.32037	3.4723	65.637
#1	.00521	.27264	.00074	.10343	.02125	.00002	30.327	.00064	.00054
#2	.00424	.28364	-.00088	.10358	.02107	.00002	30.190	.00067	.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	.00302	.33585	2.5921	34.528	36.444	.00032	8.1690	.11516	.00143
Stddev	.00041	.00155	.0278	.154	.155	.00046	.0139	.00011	.00003
%RSD	13.579	.46212	1.0731	.44544	.42608	146.01	.17005	.09941	2.3433
#1	.00331	.33695	2.6118	34.637	36.554	.00065	8.1788	.11524	.00141
#2	.00273	.33476	2.5724	34.420	36.334	-.00001	8.1592	.11507	.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	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	69.894	.00587	.00609	F 17.34	.00047	.00133	.95454	.00376	.10147
Stddev	.145	.00003	.00132	.03	.00050	.00146	.00867	.00017	.00052
%RSD	.20700	.49815	21.724	.1761	108.16	110.20	.90781	4.4635	.51081
#1	69.996	.00589	.00516	17.37	.00082	.00029	.96067	.00365	.10183
#2	69.792	.00585	.00703	17.32	.00011	.00236	.94841	.00388	.10110
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	.00349	-.00052	.00048	.23930
Stddev	.00006	.00112	.00019	.00023
%RSD	1.6753	215.51	39.894	.09449
#1	.00345	.00027	.00035	.23914
#2	.00353	-.00132	.00062	.23946
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	3657.3	6776.6	60429.	9243.8
Stddev	9.5	18.6	270.	2.0
%RSD	.25915	.27483	.44604	.02127
#1	3650.6	6763.4	60238.	9242.4
#2	3664.0	6789.7	60619.	9245.2

Sample Name: 480-30609-A-2-A Acquired: 12/21/2012 15:27:45 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	.00412	.30183	-.00078	.09857	.02337	.00002	32.113	.00085	.00061
Stddev	.00011	.03406	.00012	.00063	.00004	.00001	.002	.00002	.00004
%RSD	2.6003	11.284	15.729	.63536	.17108	63.116	.00516	2.6963	6.3274
#1	.00405	.27775	-.00087	.09901	.02334	.00003	32.114	.00087	.00064
#2	.00420	.32592	-.00070	.09812	.02340	.00001	32.112	.00084	.00058
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	.00332	.77622	5.1191	43.635	45.254	.00048	9.2719	.14557	.00189
Stddev	.00032	.00039	.0243	.003	.560	.00093	.0109	.00001	.00013
%RSD	9.6130	.05030	.47547	.00790	1.2368	194.33	.11721	.00374	6.8286
#1	.00355	.77595	5.1363	43.633	45.650	-.00018	9.2642	.14558	.00180
#2	.00310	.77650	5.1018	43.637	44.858	.00113	9.2796	.14557	.00198
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	89.420	.00690	.00475	F 16.74	-.00093	.00317	1.0666	.00681	.11104
Stddev	.310	.00028	.00261	.07	.00010	.00127	.0017	.00001	.00056
%RSD	.34694	4.0349	54.993	.4126	10.477	39.997	.15661	.15226	.50672
#1	89.200	.00710	.00660	16.79	-.00086	.00407	1.0678	.00682	.11065
#2	89.639	.00670	.00290	16.70	-.00099	.00227	1.0655	.00680	.11144
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	.00466	.00052	.00065	.34900
Stddev	.00050	.00017	.00045	.00122
%RSD	10.716	32.221	68.732	.34819
#1	.00501	.00040	.00034	.34814
#2	.00431	.00064	.00097	.34986
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	3615.0	6737.3	60174.	9255.7
Stddev	11.7	23.9	8.	11.9
%RSD	.32485	.35532	.01289	.12856
#1	3606.7	6720.3	60179.	9247.3
#2	3623.3	6754.2	60168.	9264.1

Sample Name: 480-30609-A-3-B Acquired: 12/21/2012 15:30:01 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	.00242	.50152	.00119	.08941	.02569	.00003	28.597	.00062	.00059
Stddev	.00017	.00720	.00073	.00005	.00036	.00001	.072	.00014	.00003
%RSD	7.1809	1.4357	60.857	.05950	1.3824	24.236	.25070	22.044	5.2201
#1	.00229	.49643	.00068	.08944	.02544	.00003	28.547	.00052	.00057
#2	.00254	.50662	.00171	.08937	.02594	.00004	28.648	.00071	.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	.00620	.10351	1.8082	44.370	48.706	.00135	7.8073	.10040	.00258
Stddev	.00001	.00120	.0026	.136	.362	.00020	.1238	.00193	.00008
%RSD	.08278	1.1587	.14270	.30602	.74281	14.652	1.5853	1.9206	3.1938
#1	.00620	.10267	1.8100	44.274	48.962	.00121	7.7198	.09904	.00264
#2	.00621	.10436	1.8064	44.466	48.450	.00149	7.8948	.10176	.00252
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	141.51	.00662	.00671	F 22.44	.00109	.00385	1.2856	.01042	.09611
Stddev	.05	.00017	.00064	.09	.00077	.00375	.0128	.00025	.00016
%RSD	.03751	2.5154	9.4957	.4052	70.571	97.434	.99601	2.3839	.16364
#1	141.55	.00650	.00625	22.51	.00163	.00120	1.2946	.01024	.09600
#2	141.47	.00673	.00716	22.38	.00055	.00651	1.2765	.01059	.09622
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	.01032	.00014	.00062	.34043
Stddev	.00079	.00583	.00058	.00724
%RSD	7.6837	4200.2	94.326	2.1271
#1	.00976	-.00398	.00021	.33531
#2	.01088	.00426	.00103	.34555
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	3553.6	6689.1	59806.	9292.0
Stddev	2.6	8.2	905.	17.2
%RSD	.07223	.12199	1.5130	.18506
#1	3551.8	6683.3	60446.	9279.8
#2	3555.4	6694.8	59166.	9304.1

Sample Name: 480-30607-E-1-B Acquired: 12/21/2012 15:32:19 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	.00158	.03891	.00785	.02131	.02329	.00007	43.225	-.00001	.00211
Stddev	.00056	.01233	.00076	.00020	.00026	.00003	.102	.00007	.00017
%RSD	35.678	31.693	9.6795	.95355	1.1136	43.338	.23667	1006.2	8.0008
#1	.00197	.03019	.00839	.02145	.02311	.00009	43.152	.00004	.00223
#2	.00118	.04763	.00731	.02117	.02348	.00005	43.297	-.00005	.00200
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	.00108	.00316	4.6747	5.2156	6.5454	.00634	7.2967	.87785	.00057
Stddev	.00018	.00047	.0131	.0195	.0576	.00071	.0852	.01014	.00009
%RSD	16.204	15.000	.28018	.37396	.88044	11.145	1.1672	1.1554	15.319
#1	.00120	.00350	4.6840	5.2294	6.5046	.00584	7.2365	.87068	.00063
#2	.00096	.00283	4.6654	5.2018	6.5861	.00684	7.3569	.88502	.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	109.01	.00225	-.00098	F 15.64	.00225	.00349	8.6404	.00006	.28582
Stddev	.12	.00013	.00067	.02	.00257	.00049	.0333	.00003	.00038
%RSD	.11182	5.8505	68.211	.1343	114.25	14.142	.38541	52.631	.13431
#1	109.10	.00216	-.00051	15.66	.00043	.00384	8.6640	.00004	.28609
#2	108.93	.00234	-.00145	15.63	.00407	.00314	8.6169	.00008	.28555
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	.00148	.00175	.00027	.00905
Stddev	.00052	.00016	.00043	.00023
%RSD	35.164	9.2631	157.93	2.5500
#1	.00111	.00163	.00057	.00922
#2	.00185	.00186	-.00003	.00889
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	3618.2	6727.0	58881.	9148.1
Stddev	1.9	4.3	531.	32.2
%RSD	.05357	.06448	.90164	.35185
#1	3619.6	6723.9	59256.	9170.9
#2	3616.9	6730.1	58506.	9125.3

Sample Name: 480-30607-E-2-B Acquired: 12/21/2012 15:34:32 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	.01575	.00755	.00136	.02007	-.00001	45.387	.00010	.00041
Stddev	.00081	.00535	.00058	.00000	.00003	.00004	.048	.00007	.00005
%RSD	121.91	33.962	7.7305	.07540	.14900	391.48	.10646	66.356	11.186
#1	.00123	.01954	.00714	.00136	.02005	.00002	45.353	.00015	.00038
#2	.00009	.01197	.00796	.00136	.02009	-.00004	45.421	.00005	.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	.00129	.00033	.06193	5.3759	7.2384	.00934	7.1310	.00462	.00086
Stddev	.00002	.00017	.00496	.0413	.0527	.00083	.0172	.00000	.00001
%RSD	1.1627	49.783	8.0078	.76906	.72737	8.8547	.24127	.01854	1.0746
#1	.00130	.00045	.06544	5.3467	7.2012	.00992	7.1188	.00462	.00086
#2	.00128	.00022	.05843	5.4052	7.2756	.00875	7.1432	.00462	.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	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	147.92	.00299	-.00173	F 14.08	.00199	.00171	7.7718	.00024	.29997
Stddev	.05	.00036	.00119	.04	.00022	.00146	.0515	.00041	.00019
%RSD	.03650	12.164	68.505	.2937	10.947	85.201	.66327	171.42	.06392
#1	147.88	.00325	-.00257	14.11	.00215	.00275	7.7353	.00053	.29983
#2	147.96	.00273	-.00089	14.05	.00184	.00068	7.8082	-.00005	.30010
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	.00041	.00065	.00079	.00069
Stddev	.00021	.00282	.00014	.00043
%RSD	51.439	437.16	17.441	61.296
#1	.00026	.00264	.00088	.00099
#2	.00056	-.00135	.00069	.00039
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	3555.5	6652.7	58707.	9025.8
Stddev	3.5	12.7	9.	6.2
%RSD	.09955	.19049	.01450	.06837
#1	3553.0	6643.7	58701.	9021.5
#2	3558.0	6661.7	58713.	9030.2

Sample Name: 480-30561-D-1-D Acquired: 12/21/2012 15:36:51 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	.00064	.07173	.15661	1.7229	.21823	.00009	145.58	.00008	.00065
Stddev	.00035	.01238	.00219	.0133	.00008	.00002	5.42	.00003	.00010
%RSD	54.682	17.258	1.3963	.77441	.03754	24.417	3.7231	39.866	14.733
#1	.00088	.08048	.15816	1.7323	.21817	.00010	149.41	.00010	.00058
#2	.00039	.06298	.15507	1.7135	.21828	.00007	141.75	.00006	.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	.03053	.00644	37.996	19.125	23.030	.08956	37.816	2.8720	.00107
Stddev	.00035	.00013	1.477	.723	.815	.00256	.109	.0089	.00019
%RSD	1.1355	2.0409	3.8867	3.7781	3.5396	2.8597	.28880	.31170	18.189
#1	.03028	.00653	39.040	19.636	23.606	.09137	37.739	2.8657	.00093
#2	.03077	.00635	36.952	18.614	22.453	.08774	37.893	2.8783	.00120
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	71.164	.02679	-.00431	F 21.59	-.00100	.00432	27.801	.00038	.82208
Stddev	2.550	.00002	.00032	.17	.00221	.00166	1.100	.00025	.03122
%RSD	3.5832	.08188	7.4081	.7778	222.28	38.321	3.9576	66.429	3.7980
#1	72.967	.02681	-.00409	21.71	-.00256	.00549	28.578	.00020	.84416
#2	69.361	.02677	-.00454	21.47	.00057	.00315	27.023	.00056	.80000
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	.00388	.00095	.00156	.00252
Stddev	.00054	.00056	.00016	.00004
%RSD	13.976	58.780	10.166	1.5354
#1	.00426	.00055	.00145	.00255
#2	.00349	.00134	.00167	.00249
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	3467.1	6578.6	59187.	8977.5
Stddev	25.3	42.1	144.	267.5
%RSD	.73092	.63964	.24276	2.9800
#1	3449.2	6548.8	59288.	8788.3
#2	3485.0	6608.4	59085.	9166.7

Sample Name: 480-30561-B-3-B Acquired: 12/21/2012 15:39:06 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	**.00037**	**.00184**	**.05579**	**1.2362**	**.01385**	**.00004**	**10.796**	**.00250**	**.00062**
Stddev	.00009	.02300	.00237	.0245	.00002	.00004	.094	.00002	.00022
%RSD	23.803	1248.2	4.2444	1.9789	.15599	100.50	.87239	.86030	35.705
#1	.00043	-.01442	.05747	1.2535	.01386	.00001	10.729	.00249	.00078
#2	.00031	.01811	.05412	1.2189	.01383	.00006	10.862	.00252	.00046
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	**.00667**	**.00463**	**.06867**	**14.859**	**21.886**	**.06473**	**21.820**	**.05398**	**.00277**
Stddev	.00039	.00001	.00674	.106	.254	.00121	.000	.00007	.00032
%RSD	5.9187	.30966	9.8120	.71237	1.1605	1.8737	.00080	.12969	11.420
#1	.00639	.00464	.07343	14.784	21.706	.06559	21.820	.05402	.00299
#2	.00695	.00462	.06391	14.934	22.066	.06387	21.820	.05393	.00254
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	**291.65**	**.02004**	**-.00113**	F **27.33**	**.00097**	**.00114**	**10.768**	**.00095**	**.06013**
Stddev	1.15	.00017	.00123	.52	.00003	.00049	.122	.00022	.00058
%RSD	.39297	.83248	109.12	1.920	2.9346	43.574	1.1373	23.491	.96400
#1	290.84	.02016	-.00026	27.70	.00095	.00079	10.681	.00079	.05972
#2	292.46	.01992	-.00200	26.96	.00099	.00149	10.855	.00111	.06054
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	**.00021**	**-.00225**	**.00018**	**.03540**
Stddev	.00036	.00017	.00024	.00087
%RSD	170.52	7.3401	135.27	2.4536
#1	.00047	-.00213	.00001	.03602
#2	-.00004	-.00237	.00035	.03479
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	**3440.2**	**6568.6**	**58269.**	**9064.7**
Stddev	50.5	95.0	220.	102.5
%RSD	1.4690	1.4464	.37695	1.1303
#1	3404.4	6501.4	58424.	9137.1
#2	3475.9	6635.7	58114.	8992.2

Sample Name: 480-30561-C-5-A Acquired: 12/21/2012 15:41:28 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	**-.00043**	**.10117**	**.11659**	**1.3918**	**.14544**	**.00000**	**96.358**	**.00012**	**.00108**
Stddev	.00053	.00289	.00097	.0108	.00099	.0000	.564	.00003	.00009
%RSD	123.29	2.8542	.82772	.77561	.68068	17254.	.58542	29.143	8.1973
#1	-.00080	.10322	.11728	1.3842	.14614	.00000	95.960	.00014	.00101
#2	-.00006	.09913	.11591	1.3994	.14474	.00000	96.757	.00009	.00114
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	**.04550**	**.02939**	**25.542**	**15.791**	**21.164**	**.06934**	**31.326**	**1.9617**	**.00246**
Stddev	.00046	.00032	.073	.046	.086	.00215	.238	.0155	.00004
%RSD	1.0184	1.0834	.28662	.28998	.40462	3.1038	.76095	.78920	1.5797
#1	.04583	.02917	25.490	15.759	21.104	.06782	31.495	1.9727	.00249
#2	.04517	.02962	25.594	15.824	21.225	.07086	31.158	1.9508	.00243
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	**160.01**	**.02556**	**-.00247**	F **22.27**	**-.00162**	**.00330**	**20.476**	**.00038**	**.54759**
Stddev	1.03	.00074	.00190	.11	.00006	.00098	.041	.00029	.00333
%RSD	.64638	2.8796	76.745	.5114	3.6382	29.827	.20042	75.015	.60826
#1	159.28	.02504	-.00381	22.18	-.00166	.00260	20.447	.00059	.54523
#2	160.74	.02608	-.00113	22.35	-.00158	.00400	20.505	.00018	.54994
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	**.00331**	**.00125**	**.00190**	**.02887**
Stddev	.00044	.00132	.00024	.00026
%RSD	13.146	105.88	12.630	.89927
#1	.00300	.00031	.00207	.02906
#2	.00362	.00219	.00173	.02869
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	**3449.5**	**6570.7**	**58746.**	**9123.4**
Stddev	24.1	56.1	352.	13.0
%RSD	.69811	.85365	.59872	.14197
#1	3466.5	6610.3	58498.	9132.6
#2	3432.4	6531.0	58995.	9114.2

Sample Name: CCV Acquired: 12/21/2012 15:43:47 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	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49516	24.639	.49106	.48547	.50473	.51108	25.014	.49345	.48234	.49687	.49014	24.819	25.602
Stddev	.00617	.135	.00493	.00263	.00072	.00270	.142	.00275	.00144	.00587	.00585	.171	.114
%RSD	1.2462	.54985	1.0042	.54099	.14320	.52885	.56702	.55629	.29808	1.1821	1.1934	.68985	.44497
#1	.49080	24.543	.49455	.48732	.50422	.50917	24.914	.49539	.48336	.49272	.48600	24.698	25.522
#2	.49952	24.734	.48757	.48361	.50524	.51299	25.114	.49151	.48133	.50102	.49428	24.940	25.683
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	25.680	.50587	23.790	.49289	.50518	26.044	.48726	.48662	24.45	.49929	.47965	25.728	.51751
Stddev	.170	.00266	.230	.00567	.00276	.091	.00101	.00050	.15	.00322	.00756	.054	.00218
%RSD	.66381	.52604	.96554	1.1503	.54575	.34764	.20748	.10353	.5968	.64401	1.5766	.20955	.42146
#1	25.560	.50398	23.628	.48888	.50713	25.980	.48798	.48697	24.55	.50157	.48499	25.690	.51905
#2	25.801	.50775	23.953	.49690	.50323	26.108	.48655	.48626	24.34	.49702	.47430	25.766	.51596
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	.50878	.50832	.49642	.49513	.50301
Stddev	.00209	.00577	.00377	.00607	.00840
%RSD	.41094	1.1357	.75950	1.2259	1.6699
#1	.50730	.50424	.49908	.49084	.49707
#2	.51026	.51241	.49375	.49943	.50895
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	3652.2	6804.4	60152.	8788.7
Stddev	14.7	30.2	543.	48.8
%RSD	.40276	.44389	.90299	.55517
#1	3641.8	6783.1	60536.	8823.2
#2	3662.6	6825.8	59768.	8754.2

Sample Name: CCB Acquired: 12/21/2012 15:46:01 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	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00020	.01641	-.00069	.00136	.00006	.00004	.00366	.00003	-.00009	.00051	-.00020	.00476	.04983
Stddev	.00012	.01326	.00099	.00004	.00000	.00005	.00047	.00001	.00002	.00023	.00023	.00167	.03013
%RSD	59.602	80.790	143.53	2.8889	8.4561	122.72	12.913	50.705	23.826	44.711	114.71	35.119	60.460
#1	-.00012	.00703	-.00139	.00133	.00006	.00008	.00333	.00004	-.00010	.00035	-.00004	.00594	.02853
#2	-.00029	.02578	.00001	.00139	.00005	.00001	.00400	.00002	-.00007	.00067	-.00036	.00357	.07113
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	.00433	-.00189	.00703	.00006	.00002	.02617	-.00008	.00005	F .0188	.00259	-.00137	.01125	.00014
Stddev	.00086	.00052	.00098	.00002	.00002	.00555	.00022	.00065	.0003	.00131	.00090	.02344	.00028
%RSD	19.949	27.416	13.866	29.996	86.494	21.209	281.60	1251.4	1.456	50.573	65.479	208.28	207.13
#1	.00494	-.00153	.00634	.00005	.00004	.02225	.00008	.00051	.0186	.00351	-.00200	.02783	-.00006
#2	.00372	-.00226	.00772	.00007	.00001	.03010	-.00024	-.00041	.0190	.00166	-.00074	-.00532	.00034
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	.00043	.00006	.00038
Stddev	.00004	.00001	.00096	.00010	.00009
%RSD	118.28	1.9109	222.14	158.27	24.839
#1	.00006	-.00053	-.00025	.00013	.00045
#2	.00001	-.00051	.00111	-.00001	.00031
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	3977.1	6953.1	61840.	9076.6
Stddev	45.7	79.6	232.	134.5
%RSD	1.1502	1.1452	.37580	1.4822
#1	3944.7	6896.8	61676.	9171.7
#2	4009.4	7009.4	62004.	8981.4

Sample Name: 480-30561-C-5-A Acquired: 12/21/2012 15:48:20 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	**.00118**	**.07580**	**.02204**	**.27791**	**.03044**	**.00035**	**19.583**	**.00013**	**.00026**
Stddev	.00095	.01623	.00110	.00463	.00002	.00013	.060	.00001	.00008
%RSD	80.217	21.414	4.9748	1.6649	.05449	36.685	.30567	5.4184	31.010
#1	.00051	.08727	.02282	.27463	.03043	.00044	19.625	.00012	.00032
#2	.00186	.06432	.02127	.28118	.03045	.00026	19.541	.00013	.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	**.00950**	**.00542**	**5.2152**	**3.1877**	**3.3527**	**.01411**	**6.5625**	**.40783**	**.00065**
Stddev	.00018	.00025	.0083	.0468	.0028	.00026	.0090	.00125	.00010
%RSD	1.8961	4.5464	.15836	1.4666	.08417	1.8295	.13688	.30727	15.466
#1	.00963	.00560	5.2093	3.1546	3.3507	.01429	6.5561	.40695	.00072
#2	.00937	.00525	5.2210	3.2208	3.3547	.01392	6.5688	.40872	.00058
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	**32.875**	**.00562**	**-.00063**	**4.443**	**.00294**	**.00204**	**4.1012**	**.00019**	**.11089**
Stddev	.008	.00013	.00182	.030	.00010	.00144	.0020	.00009	.00015
%RSD	.02510	2.3311	289.82	.6829	3.5416	70.216	.04908	46.178	.13265
#1	32.869	.00571	-.00191	4.422	.00301	.00306	4.0998	.00025	.11100
#2	32.881	.00552	.00066	4.465	.00287	.00103	4.1026	.00012	.11079
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	**.00088**	**.00192**	**.00028**	**.00604**
Stddev	.00017	.00025	.00057	.00001
%RSD	19.450	13.053	204.85	.12906
#1	.00076	.00210	.00068	.00605
#2	.00100	.00174	-.00012	.00604
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	**3751.2**	**6792.0**	**60533.**	**9135.1**
Stddev	27.6	59.6	44.	25.5
%RSD	.73510	.87738	.07227	.27948
#1	3770.7	6834.2	60564.	9153.2
#2	3731.7	6749.9	60502.	9117.1

Sample Name: 480-30561-C-5-A Acquired: 12/21/2012 15:50:31 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	.05303	10.304	.32561	1.5594	.35367	.21450	103.93	.21086	.21413
Stddev	.00050	.044	.00066	.0004	.00085	.00191	.41	.00033	.00013
%RSD	.94171	.42254	.20378	.02860	.24173	.88986	.39207	.15564	.05946
#1	.05267	10.273	.32514	1.5597	.35306	.21315	103.64	.21109	.21404
#2	.05338	10.335	.32608	1.5591	.35427	.21585	104.22	.21062	.21422
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	.25251	.24055	34.813	25.800	33.712	.27504	41.246	2.1363	.21711
Stddev	.00030	.00028	.347	.203	.067	.00198	.119	.0074	.00168
%RSD	.11777	.11437	.99643	.78708	.19846	.71966	.28753	.34555	.77230
#1	.25230	.24075	34.568	25.656	33.664	.27364	41.162	2.1311	.21830
#2	.25272	.24036	35.058	25.943	33.759	.27644	41.330	2.1415	.21593
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	167.10	.23519	.20349	F 21.65	.21462	.20977	31.794	.21364	.74054
Stddev	.12	.00001	.00116	.04	.00118	.00052	.026	.00033	.00643
%RSD	.07204	.00392	.57095	.2013	.55020	.24785	.08137	.15322	.86894
#1	167.19	.23518	.20431	21.68	.21545	.20940	31.812	.21387	.73599
#2	167.02	.23519	.20267	21.62	.21378	.21014	31.776	.21341	.74509
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	.21039	.20817	.21589	.23899
Stddev	.00003	.00121	.00039	.00089
%RSD	.01292	.58196	.18238	.37265
#1	.21041	.20731	.21561	.23836
#2	.21037	.20902	.21617	.23962
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	3411.7	6598.3	58086.	9128.4
Stddev	.4	5.5	231.	45.1
%RSD	.01141	.08325	.39803	.49370
#1	3412.0	6594.4	58249.	9160.2
#2	3411.4	6602.2	57922.	9096.5

Sample Name: 480-30561-C-5-B MS Acquired: 12/21/2012 15:52:43 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	.05526	9.7492	.33959	1.6331	.35852	.20543	101.08	.21632	.22000
Stddev	.00028	.2079	.00920	.0405	.00153	.00663	3.14	.00533	.00502
%RSD	.49962	2.1324	2.7091	2.4814	.42735	3.2286	3.1099	2.4617	2.2839
#1	.05546	9.6022	.34610	1.6618	.35744	.20074	98.859	.22009	.22356
#2	.05507	9.8962	.33309	1.6045	.35961	.21012	103.30	.21256	.21645
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	.25293	.24150	33.887	24.882	34.392	.26288	41.766	2.1776	.22340
Stddev	.00268	.00161	.890	1.095	.757	.00979	.181	.0152	.00508
%RSD	1.0582	.66522	2.6264	4.4012	2.2004	3.7246	.43411	.69761	2.2750
#1	.25104	.24036	33.258	24.108	33.857	.25596	41.638	2.1669	.22699
#2	.25482	.24264	34.517	25.657	34.927	.26981	41.894	2.1883	.21981
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	160.15	.24229	.21048	F 22.69	.22028	.21451	29.137	.22025	.71709
Stddev	6.84	.00626	.00390	.52	.00560	.00384	1.045	.00557	.02358
%RSD	4.2709	2.5822	1.8532	2.301	2.5432	1.7894	3.5853	2.5291	3.2886
#1	155.32	.24671	.21324	23.06	.22424	.21180	28.399	.22418	.70042
#2	164.99	.23786	.20773	22.32	.21631	.21723	29.876	.21631	.73376
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	.21186	.21405	.21629	.23949
Stddev	.00238	.00423	.00122	.00258
%RSD	1.1243	1.9749	.56606	1.0758
#1	.21018	.21704	.21542	.23767
#2	.21355	.21106	.21715	.24131
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	3374.4	6541.3	58699.	9132.8
Stddev	53.1	104.3	241.	84.0
%RSD	1.5743	1.5951	.40996	.91974
#1	3336.8	6467.5	58869.	9192.2
#2	3412.0	6615.1	58529.	9073.4

Sample Name: 480-30561-C-5-C MSD Acquired: 12/21/2012 15:54:54 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	.05394	10.228	.32955	1.5642	.35250	.21466	104.28	.21062	.21348
Stddev	.00006	.028	.00158	.0087	.00083	.00053	.06	.00079	.00053
%RSD	.10843	.27414	.48038	.55429	.23554	.24906	.05466	.37665	.24929
#1	.05390	10.247	.33067	1.5703	.35309	.21504	104.32	.21118	.21386
#2	.05398	10.208	.32843	1.5581	.35192	.21428	104.24	.21006	.21310
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	.25112	.23756	34.891	25.840	33.006	.27289	41.145	2.1374	.21776
Stddev	.00165	.00017	.016	.084	.051	.00127	.113	.0068	.00059
%RSD	.65700	.07213	.04629	.32386	.15563	.46718	.27577	.31885	.27272
#1	.25228	.23768	34.903	25.899	32.970	.27379	41.226	2.1422	.21818
#2	.24995	.23744	34.880	25.781	33.043	.27199	41.065	2.1326	.21734
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	167.31	.23417	.20339	F 21.85	.21145	.20780	30.362	.21430	.74238
Stddev	.48	.00134	.00067	.16	.00163	.00590	.068	.00188	.00072
%RSD	.28943	.57039	.32742	.7098	.77178	2.8382	.22407	.87910	.09687
#1	167.65	.23512	.20386	21.96	.21261	.21197	30.410	.21563	.74289
#2	166.97	.23323	.20291	21.74	.21030	.20363	30.314	.21296	.74187
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	.20988	.21151	.21567	.23738
Stddev	.00121	.00022	.00129	.00020
%RSD	.57799	.10550	.59703	.08543
#1	.21073	.21135	.21658	.23752
#2	.20902	.21167	.21476	.23724
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	3410.9	6610.4	58318.	9104.0
Stddev	11.8	20.6	61.	22.6
%RSD	.34621	.31181	.10541	.24782
#1	3402.6	6595.8	58274.	9120.0
#2	3419.3	6625.0	58361.	9088.0

Sample Name: 480-30561-C-6-A Acquired: 12/21/2012 15:57:08 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**	**.02206**	**.07212**	**1.4482**	**.01410**	**.00007**	**14.979**	**.00038**	**.00072**
Stddev	.00011	.02093	.00211	.0306	.00010	.00006	.883	.00009	.00014
%RSD	124.49	94.876	2.9250	2.1110	.72324	88.403	5.8923	23.059	19.230
#1	-.00001	.03686	.07361	1.4698	.01403	.00003	14.355	.00044	.00062
#2	-.00016	.00726	.07063	1.4266	.01417	.00011	15.603	.00032	.00082
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	**.00966**	**.00287**	**2.0918**	**15.743**	**24.058**	**.06866**	**27.608**	**.21949**	**.00286**
Stddev	.00007	.00025	.1166	1.227	.424	.00534	.180	.00127	.00014
%RSD	.71555	8.6908	5.5728	7.7948	1.7639	7.7812	.65347	.57662	4.8181
#1	.00961	.00304	2.0093	14.875	23.758	.06488	27.481	.21859	.00277
#2	.00971	.00269	2.1742	16.610	24.358	.07244	27.736	.22038	.00296
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	**249.53**	**.02162**	**-.00310**	F **22.65**	**.00072**	**.00632**	**14.013**	**.00014**	**.07239**
Stddev	17.49	.00015	.00089	.47	.00024	.00352	.928	.00006	.00460
%RSD	7.0100	.70724	28.668	2.083	32.994	55.741	6.6258	46.088	6.3493
#1	237.16	.02173	-.00247	22.98	.00055	.00383	13.357	.00019	.06914
#2	261.90	.02151	-.00372	22.31	.00089	.00881	14.670	.00009	.07564
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	**.00084**	**-.00057**	**.00091**	**.00128**
Stddev	.00009	.00148	.00026	.00008
%RSD	11.289	258.52	28.330	5.9690
#1	.00077	-.00162	.00109	.00133
#2	.00091	.00047	.00073	.00123
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	**3451.7**	**6581.8**	**59142.**	**9263.8**
Stddev	38.2	72.0	258.	109.6
%RSD	1.1071	1.0940	.43703	1.1832
#1	3424.7	6530.9	59325.	9341.3
#2	3478.7	6632.7	58959.	9186.3

Sample Name: 480-30561-C-7-A Acquired: 12/21/2012 15:59:30 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	.00045	.00997	.06455	1.4215	.00890	.00010	9.8846	.00033	.00085
Stddev	.00134	.02759	.00230	.0120	.00004	.00001	.0278	.00004	.00002
%RSD	297.49	276.69	3.5567	.84089	.41239	9.3506	.28135	13.421	2.6487
#1	-.00050	.02948	.06292	1.4131	.00893	.00009	9.9043	.00030	.00086
#2	.00140	-.00954	.06617	1.4300	.00888	.00010	9.8650	.00036	.00083
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	.00618	.00051	.07723	16.953	24.271	.07375	25.121	.05068	.00246
Stddev	.00007	.00015	.00275	.063	.021	.00115	.053	.00011	.00017
%RSD	1.2031	29.404	3.5633	.37439	.08853	1.5616	.21149	.21158	6.7214
#1	.00623	.00062	.07528	16.998	24.286	.07293	25.159	.05076	.00235
#2	.00613	.00041	.07918	16.908	24.255	.07456	25.084	.05061	.00258
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	278.49	.02058	-.00313	F 30.64	.00123	.00215	12.082	.00075	.04713
Stddev	.14	.00049	.00300	.27	.00099	.00282	.041	.00026	.00016
%RSD	.04981	2.4014	95.866	.8847	80.183	131.35	.33734	35.160	.33300
#1	278.59	.02023	-.00101	30.45	.00053	.00414	12.053	.00056	.04724
#2	278.40	.02093	-.00526	30.83	.00193	.00015	12.111	.00094	.04702
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	.00010	-.00019	.00073	.00084
Stddev	.00008	.00215	.00038	.00061
%RSD	74.244	1154.1	51.584	72.957
#1	.00005	.00133	.00047	.00041
#2	.00016	-.00171	.00100	.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	3480.5	6632.8	58602.	9123.8
Stddev	24.5	48.1	264.	22.3
%RSD	.70421	.72537	.44974	.24478
#1	3497.8	6666.8	58416.	9108.0
#2	3463.1	6598.8	58789.	9139.6

Sample Name: 480-30629-G-1-A Acquired: 12/21/2012 16:01:53 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	.00058	.10377	-.00061	.01695	.04589	.00004	79.031	.00016	.00008
Stddev	.00097	.00872	.00071	.00049	.00028	.00005	.686	.00001	.00004
%RSD	168.62	8.4015	115.86	2.8715	.60981	118.94	.86861	5.8240	45.636
#1	-.00011	.09761	-.00011	.01729	.04570	.00001	78.546	.00017	.00011
#2	.00127	.10994	-.00111	.01660	.04609	.00008	79.517	.00015	.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	.00173	.00184	.31334	9.0243	8.9186	-.00027	19.301	.12642	.00056
Stddev	.00055	.00025	.00060	.0861	.0618	.00027	.123	.00044	.00007
%RSD	31.583	13.655	.19074	.95424	.69312	99.497	.63787	.35101	12.865
#1	.00134	.00167	.31291	8.9634	8.8748	-.00046	19.214	.12611	.00061
#2	.00212	.00202	.31376	9.0852	8.9623	-.00008	19.388	.12674	.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	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	2.6874	.00092	.00033	F 20.15	.00087	.00283	7.2916	.00008	.29469
Stddev	.0060	.00015	.00105	.03	.00084	.00080	.0182	.00037	.00271
%RSD	.22338	16.845	314.48	.1326	96.033	28.182	.24991	459.24	.91912
#1	2.6832	.00081	-.00041	20.17	.00147	.00226	7.2788	.00035	.29278
#2	2.6917	.00102	.00107	20.13	.00028	.00339	7.3045	-.00018	.29661
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	.00394	-.00160	.00030	.00246
Stddev	.00005	.00108	.00029	.00004
%RSD	1.2430	67.695	97.532	1.5965
#1	.00398	-.00236	.00009	.00243
#2	.00391	-.00083	.00051	.00248
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	3713.0	6738.0	60402.	9044.5
Stddev	6.1	7.9	261.	59.6
%RSD	.16448	.11662	.43289	.65917
#1	3708.7	6743.5	60587.	9086.6
#2	3717.3	6732.4	60217.	9002.3

Sample Name: 480-30657-C-1-A Acquired: 12/21/2012 16:04:11 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	**-.00119**	**.01944**	**.03143**	**.16676**	**.07673**	k **-.00004**	**8.1706**	k **.00114**	**.00202**
Stddev	.00090	.04454	.00540	.00269	.00605	.00000	8.2415	.00001	.00001
%RSD	75.533	229.06	17.171	1.6155	7.8886	13.706	100.87	1.2480	.41157
#1	-.00056	-.01205	.03525	.16486	.07245	k -.00004	2.3430	k .00115	.00201
#2	-.00183	.05094	.02762	.16867	.08102	-.00003	13.998	.00113	.00202
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	**.01099**	**.05317**	**1.7369**	**.35516**	**7.5248**	**-.00005**	**63.556**	^ *****	**.00279**
Stddev	.00105	.00494	1.7238	.43795	1.9402	.00133	4.971	-----	.00033
%RSD	9.5422	9.2939	99.248	123.31	25.784	2921.8	7.8219	-----	11.995
#1	.01025	.04967	.51795	.04548	6.1529	-.00099	60.041	^ -----	.00255
#2	.01174	.05666	2.9558	.66484	8.8967	.00089	67.072	.89991	.00303
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	**1.2887**	**.01445**	**.00797**	F **141.5**	**-.00018**	**.00589**	**.26682**	**.00168**	**.02140**
Stddev	1.3848	.00053	.00006	2.5	.00070	.00194	.28487	.00021	.02184
%RSD	107.46	3.6539	.71692	1.765	395.49	32.872	106.77	12.561	102.04
#1	.30946	.01483	.00793	139.8	-.00067	.00452	.06538	.00153	.00596
#2	2.2679	.01408	.00801	143.3	.00032	.00726	.46825	.00183	.03685
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	**.05538**	k **-.00192**	k **.00371**	**.07507**
Stddev	.01055	.00121	.00003	.00507
%RSD	19.043	62.768	.77800	6.7576
#1	.04792	k -.00278	k .00369	.07149
#2	.06284	-.00107	.00373	.07866
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	**3390.6**	**6433.1**	**60850.**	**14643.**
Stddev	50.0	99.4	2577.	1224.
%RSD	1.4759	1.5448	4.2354	8.3559
#1	3426.0	6503.4	62672.	15508.
#2	3355.3	6362.9	59027.	13778.

Sample Name: 480-30631-C-1-B Acquired: 12/21/2012 16:06:31 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	.00079	.09760	.42637	4.9498	.63655	.00001	92.382	.00232	.01211
Stddev	.00105	.01835	.00120	.0278	.00116	.00008	.007	.00013	.00018
%RSD	132.78	18.803	.28157	.56121	.18160	823.26	.00737	5.4125	1.4998
#1	.00005	.08463	.42552	4.9302	.63573	.00007	92.377	.00223	.01224
#2	.00153	.11058	.42722	4.9695	.63737	-.00005	92.387	.00241	.01198
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	.01825	.00547	4.5089	206.44	^ *****	.10764	99.944	.16260	.00300
Stddev	.00043	.00032	.0032	.07	-----	.00107	.785	.00111	.00027
%RSD	2.3815	5.8951	.07011	.03166	-----	.99160	.78569	.68402	8.9065
#1	.01794	.00570	4.5067	206.40	^ -----	.10689	100.50	.16338	.00281
#2	.01856	.00524	4.5112	206.49	^ -----	.10840	99.389	.16181	.00319
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	756.29	.13585	-.00125	F 51.53	.04786	.00357	7.9255	.00498	.96112
Stddev	.15	.00118	.00193	.33	.00054	.00058	.0228	.00034	.00321
%RSD	.01936	.86779	154.24	.6499	1.1204	16.300	.28745	6.7993	.33378
#1	756.39	.13501	.00011	51.29	.04748	.00398	7.9416	.00474	.95885
#2	756.18	.13668	-.00262	51.77	.04824	.00316	7.9094	.00522	.96339
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	.02057	.00140	.01259	.04806
Stddev	.00007	.00135	.00049	.00045
%RSD	.33021	96.444	3.8587	.93984
#1	.02052	.00236	.01293	.04837
#2	.02061	.00045	.01225	.04774
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	3092.8	6216.9	54663.	8858.6
Stddev	18.4	40.8	308.	73.0
%RSD	.59507	.65636	.56323	.82357
#1	3105.9	6245.7	54445.	8807.0
#2	3079.8	6188.0	54881.	8910.2

Sample Name: 480-30599-C-1-B Acquired: 12/21/2012 16:08:57 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	**-.00145**	**27.177**	**.00545**	**.93538**	**.38481**	**.00099**	**622.12**	F **-.00126**	**.08513**
Stddev	.00054	.434	.00563	.00335	.00463	.00001	7.56	.00030	.00014
%RSD	37.215	1.5979	103.32	.35839	1.2024	1.4276	1.2144	23.881	.16288
#1	-.00183	27.484	.00147	.93776	.38154	.00098	627.46	-.00105	.08503
#2	-.00107	26.870	.00943	.93301	.38808	.00100	616.77	-.00147	.08522
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	**16.958**	**.45256**	**131.92**	**139.47**	**147.83**	**.07094**	**238.28**	**1.4097**	**.22021**
Stddev	.208	.00506	2.73	2.90	2.25	.00171	3.27	.0204	.00107
%RSD	1.2244	1.1179	2.0699	2.0761	1.5209	2.4115	1.3721	1.4433	.48672
#1	16.811	.44898	133.85	141.52	149.42	.07215	235.97	1.3953	.22097
#2	17.104	.45614	129.99	137.42	146.24	.06973	240.59	1.4241	.21945
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	**1352.5**	**5.1147**	**.01724**	F **134.0**	F **-.12380**	**.01100**	**59.760**	**.01074**	**1.7512**
Stddev	22.5	.0219	.00022	.5	.00191	.00177	1.157	.00038	.0382
%RSD	1.6653	.42767	1.2907	.3716	1.5387	16.077	1.9364	3.5436	2.1828
#1	1368.4	5.1302	.01739	134.4	-.12246	.01225	60.579	.01047	1.7782
#2	1336.5	5.0992	.01708	133.7	-.12515	.00975	58.942	.01101	1.7241
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00	50.000				
Low Limit				-.0100	-.02000				

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	**.83014**	**.00569**	**.15157**	**.13644**
Stddev	.01758	.00225	.00151	.00113
%RSD	2.1174	39.615	.99714	.82540
#1	.81771	.00728	.15050	.13565
#2	.84257	.00410	.15264	.13724
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	**2723.3**	**5836.3**	**50978.**	**8629.8**
Stddev	15.6	21.3	499.	115.7
%RSD	.57168	.36491	.97895	1.3406
#1	2712.3	5821.3	51331.	8548.0
#2	2734.3	5851.4	50625.	8711.6

Sample Name: CCV Acquired: 12/21/2012 16:11:23 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	.50222	23.895	.49154	.49197	.49362	.49212	24.406	.49575	.48489	.50037	.49269	23.803	24.972
Stddev	.00434	.334	.00834	.00956	.00624	.00777	.307	.00813	.00854	.00206	.00173	.396	.420
%RSD	.86365	1.3974	1.6964	1.9432	1.2643	1.5788	1.2599	1.6394	1.7620	.41220	.35101	1.6633	1.6820
#1	.50528	24.131	.49743	.49873	.49803	.49761	24.623	.50149	.49093	.50183	.49391	24.083	25.269
#2	.49915	23.659	.48564	.48521	.48920	.48662	24.188	.49000	.47885	.49891	.49146	23.523	24.675
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	23.955	.49301	24.239	.50041	.50711	25.594	.49071	.48755	24.69	.49903	.48900	25.225	.52065
Stddev	.439	.00541	.177	.00309	.00873	.384	.01025	.00948	.38	.00793	.00718	.231	.00766
%RSD	1.8326	1.0967	.72909	.61662	1.7223	1.4996	2.0898	1.9436	1.553	1.5892	1.4686	.91625	1.4704
#1	24.265	.49683	24.364	.50259	.51328	25.865	.49796	.49425	24.96	.50464	.49408	25.388	.52606
#2	23.644	.48918	24.114	.49822	.50093	25.322	.48346	.48085	24.42	.49342	.48392	25.062	.51524
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	.49157	.50857	.50047	.50065	.50673
Stddev	.00601	.00134	.00960	.00334	.00442
%RSD	1.2230	.26375	1.9185	.66682	.87276
#1	.49582	.50952	.50725	.50301	.50985
#2	.48732	.50762	.49368	.49829	.50360
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	3639.3	6774.2	59840.	9002.8
Stddev	44.6	90.0	275.	122.0
%RSD	1.2269	1.3285	.45935	1.3551
#1	3607.7	6710.6	59646.	8916.5
#2	3670.9	6837.8	60034.	9089.0

Sample Name: CCB Acquired: 12/21/2012 16:13:37 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	.00033	-.00106	.00029	.00302	.00005	.00005	.01959	.00000	.00001	.00116	-.00007	.00684	.12829
Stddev	.00071	.00581	.00381	.00051	.00001	.00008	.00207	.00008	.00007	.00011	.00028	.00069	.05170
%RSD	216.86	547.69	1302.7	16.925	11.392	153.60	10.562	14581.	475.10	9.0725	422.68	10.033	40.301
#1	-.00018	-.00516	.00299	.00338	.00005	.00000	.01813	-.00005	-.00003	.00109	-.00027	.00636	.16485
#2	.00083	.00304	-.00240	.00266	.00005	.00011	.02105	.00006	.00006	.00124	.00013	.00733	.09173
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	.00931	.00008	.00990	.00000	.00015	.12329	-.00014	.00023	F .0230	.00165	.00311	.01519	.00023
Stddev	.00084	.00119	.00104	.00004	.00022	.00886	.00021	.00037	.0006	.00041	.00077	.00388	.00005
%RSD	9.0443	1515.9	10.494	95681.	140.64	7.1837	148.88	160.73	2.528	24.617	24.697	25.542	22.138
#1	.00991	.00092	.01063	-.00003	.00031	.12955	-.00029	.00049	.0234	.00194	.00366	.01245	.00027
#2	.00871	-.00076	.00916	.00003	.00000	.11703	.00001	-.00003	.0225	.00136	.00257	.01794	.00020
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	-.00045	-.00202	.00000	.00057
Stddev	.00002	.00050	.00049	.00013	.00063
%RSD	27.261	110.45	24.295	28318.	110.51
#1	.00008	-.00010	-.00167	.00009	.00012
#2	.00005	-.00081	-.00237	-.00009	.00101
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	4014.0	7017.2	61793.	9045.8
Stddev	9.4	9.8	222.	17.0
%RSD	.23435	.13924	.35937	.18739
#1	4020.7	7024.1	61950.	9033.8
#2	4007.4	7010.3	61636.	9057.8

Sample Name: 480-30618-P-1-B@200 Acquired: 12/21/2012 16:15:57 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	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	.00043	.01333	-.00252	.00385	2.0204	.00008	3.4519	-.00027	-.00010
Stddev	.00105	.02813	.00007	.00024	.0001	.00002	.0040	.00013	.00005
%RSD	244.79	211.07	2.6326	6.2069	.00727	20.453	.11583	49.320	50.092
#1	.00117	.03322	-.00256	.00368	2.0203	.00006	3.4547	-.00036	-.00006
#2	-.00031	-.00656	-.00247	.00402	2.0205	.00009	3.4491	-.00018	-.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	.00023	.00013	.02428	.17150	.06571	.03815	.22882	.00106	-.00012
Stddev	.00069	.00032	.00154	.01778	.00030	.00082	.00434	.00001	.00004
%RSD	295.68	239.40	6.3423	10.367	.45438	2.1405	1.8985	.66572	36.119
#1	.00073	-.00009	.02537	.15893	.06550	.03757	.23189	.00105	-.00009
#2	-.00026	.00036	.02319	.18408	.06592	.03872	.22575	.00106	-.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	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	10.546	.00016	.00057	.0193	.00041	-.00042	.02978	.00024	1.0759
Stddev	.060	.00006	.00062	.0021	.00151	.00217	.00866	.00043	.0024
%RSD	.57327	39.412	108.89	10.96	366.73	520.45	29.084	178.10	.21809
#1	10.503	.00020	.00013	.0178	.00148	.00112	.02365	.00054	1.0742
#2	10.589	.00012	.00102	.0208	-.00066	-.00195	.03590	-.00006	1.0775
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	.00020	-.00071	-.00017	.00047
Stddev	.00001	.00202	.00029	.00003
%RSD	7.5722	283.55	176.36	5.8257
#1	.00019	.00072	-.00037	.00046
#2	.00021	-.00215	.00004	.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	3910.4	6929.7	61715.	8866.9
Stddev	4.7	3.4	265.	28.9
%RSD	.12072	.04849	.42875	.32604
#1	3907.1	6932.1	61528.	8887.3
#2	3913.8	6927.3	61902.	8846.4

Sample Name: 480-30618-P-1-B@100 Acquired: 12/21/2012 16:18:17 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	.00100	.01500	-.00033	.00433	4.3087	.00003	7.3145	-.00060	-.00001
Stddev	.00070	.00075	.00015	.00002	.3324	.00002	.5647	.00030	.00003
%RSD	69.934	4.9783	45.114	.40772	7.7152	68.680	7.7203	50.091	419.47
#1	.00149	.01553	-.00023	.00434	4.0736	.00005	6.9152	-.00081	.00001
#2	.00050	.01447	-.00044	.00432	4.5437	.00002	7.7138	-.00039	-.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	.00060	-.00003	.04676	.22114	.14247	.08142	.45854	.00242	.00021
Stddev	.00008	.00028	.00451	.06976	.00896	.00723	.00795	.00002	.00006
%RSD	13.110	1073.6	9.6376	31.546	6.2895	8.8846	1.7340	1.0049	29.787
#1	.00066	.00017	.04358	.17181	.13614	.07630	.46416	.00244	.00016
#2	.00055	-.00023	.04995	.27047	.14881	.08653	.45291	.00241	.00025
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	22.173	-.00002	-.00098	.0205	-.00054	.00408	.00780	-.00001	2.2807
Stddev	1.705	.00014	.00009	.0003	.00001	.00304	.00121	.00032	.1780
%RSD	7.6911	612.19	8.7627	1.635	1.5552	74.634	15.574	2241.7	7.8025
#1	20.967	.00007	-.00092	.0208	-.00053	.00623	.00866	-.00024	2.1549
#2	23.379	-.00012	-.00104	.0203	-.00055	.00193	.00694	.00021	2.4065
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	.00007	.00035	-.00053	.00027
Stddev	.00042	.00026	.00004	.00036
%RSD	593.02	73.508	8.0176	132.69
#1	-.00022	.00017	-.00050	.00053
#2	.00037	.00053	-.00056	.00002
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	3870.0	6942.5	61074.	8511.9
Stddev	3.2	7.4	18.	516.6
%RSD	.08251	.10703	.02959	6.0688
#1	3867.7	6947.7	61087.	8877.2
#2	3872.2	6937.2	61062.	8146.6

Sample Name: RB Acquired: 12/21/2012 16:20:37 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	.00015	-.02911	-.00084	.00068	.00045	.00006	-.00218	-.00019	-.00007
Stddev	.00132	.00776	.00177	.00026	.00006	.00001	.00062	.00005	.00005
%RSD	860.72	26.668	210.73	38.527	12.832	18.192	28.287	27.578	67.513
#1	-.00078	-.03460	-.00209	.00050	.00049	.00007	-.00174	-.00015	-.00004
#2	.00109	-.02362	.00041	.00087	.00041	.00005	-.00261	-.00022	-.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	.00080	-.00039	.00077	.02212	.00098	-.00159	.00088	-.00002	-.00020
Stddev	.00007	.00032	.00099	.00124	.00070	.00145	.00170	.00007	.00026
%RSD	8.5174	81.606	129.13	5.6002	70.901	91.535	192.59	405.76	131.72
#1	.00084	-.00061	.00007	.02124	.00049	-.00261	-.00032	.00003	-.00001
#2	.00075	-.00016	.00147	.02299	.00147	-.00056	.00209	-.00007	-.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	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	.06097	.00009	.00019	.0394	.00116	.00145	-.01569	.00029	.00034
Stddev	.01629	.00017	.00124	.0012	.00070	.00055	.01154	.00023	.00010
%RSD	26.728	199.67	646.14	3.061	60.731	38.188	73.547	79.625	30.602
#1	.04944	-.00004	.00107	.0386	.00066	.00106	-.00753	.00045	.00026
#2	.07249	.00021	-.00068	.0403	.00165	.00184	-.02385	.00012	.00041
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	.00009	-.00018	-.00004	-.00020
Stddev	.00008	.00299	.00002	.00018
%RSD	99.087	1684.3	34.657	87.583
#1	.00014	-.00229	-.00005	-.00033
#2	.00003	.00194	-.00003	-.00008
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	4006.0	7013.0	63236.	9849.7
Stddev	6.9	31.1	814.	650.8
%RSD	.17199	.44392	1.2872	6.6070
#1	4010.9	7035.0	63812.	10310.
#2	4001.1	6991.0	62661.	9389.5

Sample Name: RB Acquired: 12/21/2012 16:22:53 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	.00084	.00562	-.00116	.00037	.00006	.00000	-.00191	-.00010	.00017
Stddev	.00003	.00174	.00153	.00008	.00000	.0001	.00210	.00017	.00023
%RSD	3.4269	30.938	131.78	20.826	6.6548	14685.	110.02	168.92	137.60
#1	.00086	.00439	-.00008	.00043	.00006	-.00008	-.00339	.00002	.00033
#2	.00082	.00685	-.00225	.00032	.00007	.00008	-.00042	-.00022	.00000
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	.00052	-.00026	.00286	.04025	.00136	.00014	.00177	-.00001	-.00019
Stddev	.00012	.00002	.00120	.01602	.00031	.00072	.00139	.00008	.00043
%RSD	22.313	7.7806	41.938	39.807	23.115	508.11	78.716	546.66	229.76
#1	.00060	-.00027	.00371	.02892	.00158	-.00037	.00276	-.00007	.00012
#2	.00044	-.00024	.00201	.05158	.00113	.00065	.00079	.00004	-.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	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	.02808	-.00006	.00048	.0093	.00035	-.00028	-.00567	.00036	.00008
Stddev	.00311	.00025	.00086	.0013	.00148	.00419	.01353	.00029	.00001
%RSD	11.069	422.81	179.08	14.51	421.95	1523.4	238.78	80.650	14.494
#1	.02588	-.00023	.00109	.0102	.00140	-.00324	-.01523	.00016	.00009
#2	.03028	.00012	-.00013	.0083	-.00070	.00269	.00390	.00057	.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	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	.00014	-.00013	-.00003	.00015
Stddev	.00003	.00085	.00006	.00054
%RSD	22.126	660.68	196.53	356.07
#1	.00016	.00047	.00001	.00054
#2	.00012	-.00073	-.00008	-.00023
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	3997.0	6979.6	61678.	9031.0
Stddev	5.7	15.5	211.	40.8
%RSD	.14198	.22211	.34221	.45189
#1	4001.0	6990.6	61529.	9002.1
#2	3992.9	6968.7	61828.	9059.8

Sample Name: RB Acquired: 12/21/2012 16:25:08 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	-.00045	-.01604	.00150	.00028	.00004	-.00003	-.00360	-.00007	.00007
Stddev	.00097	.00314	.00010	.00014	.00001	.00003	.00254	.00021	.00002
%RSD	214.49	19.586	6.3298	51.664	13.615	94.097	70.579	283.42	23.983
#1	.00023	-.01826	.00157	.00018	.00004	-.00006	-.00540	-.00022	.00006
#2	-.00114	-.01382	.00144	.00038	.00004	-.00001	-.00180	.00007	.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	.00066	-.00023	.00112	.03271	-.00001	-.00016	.00146	-.00003	.00004
Stddev	.00021	.00009	.00110	.00080	.00032	.00133	.00568	.00006	.00009
%RSD	32.089	38.539	97.965	2.4344	3329.5	820.98	389.74	202.14	216.81
#1	.00051	-.00017	.00190	.03215	-.00023	.00078	.00548	-.00007	-.00002
#2	.00081	-.00030	.00034	.03327	.00022	-.00110	-.00256	.00001	.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	.02672	.00008	-.00058	.0069	-.00081	.00141	.00163	.00018	.00000
Stddev	.00029	.00033	.00077	.0008	.00155	.00059	.01332	.00010	.00011
%RSD	1.0725	432.97	133.14	11.41	191.80	41.955	818.55	59.073	30980.
#1	.02652	-.00016	-.00112	.0075	-.00191	.00099	.01104	.00010	.00008
#2	.02692	.00031	-.00003	.0064	.00029	.00183	-.00779	.00025	-.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	-.00005	-.00008	-.00027	.00034
Stddev	.00055	.00037	.00006	.00024
%RSD	1081.7	474.85	20.359	70.899
#1	-.00044	.00018	-.00031	.00051
#2	.00034	-.00034	-.00023	.00017
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	4000.3	6994.7	61592.	9064.6
Stddev	11.0	26.6	71.	19.2
%RSD	.27543	.38003	.11484	.21225
#1	4008.1	7013.5	61542.	9051.0
#2	3992.5	6975.9	61642.	9078.2

Sample Name: 480-30618-P-1-B Acquired: 12/21/2012 16:27:24 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	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	.00103	.09295	.00000	.31196	^ *****	-.00019	629.01	F -.02825	.00494
Stddev	.00018	.01529	.0028	.00071	-----	.00005	3.01	.00006	.00014
%RSD	17.689	16.450	148760.	.22724	-----	27.529	.47893	.20507	2.9270
#1	.00116	.10376	-.00199	.31246	^ -----	-.00016	626.88	-.02829	.00484
#2	.00090	.08214	.00198	.31146	^ -----	-.00023	631.14	-.02821	.00505
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	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	.01098	.00503	3.9042	14.728	32.016	7.7921	43.016	.24269	.00501
Stddev	.00016	.00026	.0240	.077	.255	.0115	.543	.00336	.00043
%RSD	1.4191	5.1219	.61429	.52434	.79545	.14802	1.2631	1.3843	8.5122
#1	.01109	.00521	3.9212	14.674	31.836	7.8002	43.400	.24507	.00471
#2	.01087	.00485	3.8873	14.783	32.197	7.7839	42.632	.24032	.00531
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	2072.6	.00879	.00348	.9651	.00126	.00199	1.3932	-.00013	^ *****
Stddev	5.2	.00029	.00366	.0010	.00207	.00705	.0183	.00003	-----
%RSD	.25092	3.3573	105.35	.1068	164.78	353.52	1.3130	20.430	-----
#1	2076.3	.00899	.00089	.9659	.00272	.00698	1.3803	-.00015	^ -----
#2	2068.9	.00858	.00607	.9644	-.00021	-.00299	1.4062	-.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	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	.00558	-.00132	.00022	.01017
Stddev	.00084	.00030	.00047	.00009
%RSD	15.115	22.842	210.08	.91093
#1	.00618	-.00111	-.00011	.01010
#2	.00498	-.00154	.00055	.01024
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	2575.1	5464.9	48299.	8339.2
Stddev	3.2	13.7	380.	38.4
%RSD	.12588	.25130	.78686	.46092
#1	2572.8	5455.2	48030.	8366.3
#2	2577.4	5474.6	48568.	8312.0

Sample Name: RB Acquired: 12/21/2012 16:30:01 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	.00024	-.00904	-.00028	.00006	.04643	-.00001	.10968	-.00006	-.00008
Stddev	.00033	.00300	.00350	.00043	.00616	.00004	.01327	.00003	.00003
%RSD	135.84	33.230	1266.1	772.56	13.279	685.37	12.102	46.825	35.140
#1	.00048	-.00692	.00220	.00036	.05078	.00002	.11906	-.00008	-.00009
#2	.00001	-.01117	-.00275	-.00025	.04207	-.00004	.10029	-.00004	-.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	.00032	-.00051	.00176	.10951	.00344	.00163	.01076	-.00002	.00009
Stddev	.00010	.00003	.00405	.01447	.00087	.00011	.00471	.00007	.00006
%RSD	32.494	5.9816	230.12	13.209	25.295	6.9841	43.762	442.46	69.648
#1	.00039	-.00053	-.00110	.11974	.00406	.00171	.01409	.00003	.00013
#2	.00025	-.00048	.00463	.09929	.00282	.00155	.00743	-.00007	.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	.64685	.00015	.00034	.0052	.00135	-.00151	.00398	.00008	.03480
Stddev	.06001	.00018	.00002	.0013	.00181	.00113	.01210	.00025	.00387
%RSD	9.2771	123.01	4.9861	24.86	133.37	74.648	304.40	299.13	11.131
#1	.68929	.00002	.00035	.0043	.00008	-.00071	-.00458	-.00009	.03754
#2	.60442	.00028	.00033	.0061	.00263	-.00230	.01253	.00026	.03206
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	-.00047	.00049	-.00026	.00005
Stddev	.00004	.00156	.00003	.00016
%RSD	9.6136	315.83	12.958	342.80
#1	-.00043	.00160	-.00029	.00016
#2	-.00050	-.00061	-.00024	-.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	3987.1	6970.8	61972.	8933.2
Stddev	1.3	.8	60.	101.8
%RSD	.03227	.01157	.09695	1.1394
#1	3986.2	6971.4	62015.	9005.1
#2	3988.0	6970.2	61930.	8861.2

Sample Name: RB Acquired: 12/21/2012 16:32:16 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	.00063	-.00090	.00062	-.00007	.00511	.00000	.00591	-.00011	-.00007
Stddev	.00027	.01793	.00178	.00002	.00025	.0000	.00260	.00000	.00003
%RSD	41.907	2002.2	286.47	34.972	4.8063	1129.4	44.014	2.8671	37.813
#1	.00082	-.01358	.00188	-.00005	.00529	.00002	.00775	-.00011	-.00005
#2	.00045	.01178	-.00064	-.00008	.00494	-.00003	.00407	-.00011	-.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	.00070	-.00020	.00157	.05711	.00092	.00105	.00525	-.00005	-.00024
Stddev	.00019	.00018	.00259	.01761	.00021	.00073	.00221	.00002	.00000
%RSD	27.734	92.069	165.02	30.824	23.106	69.278	42.112	36.982	1.0350
#1	.00056	-.00007	.00339	.04467	.00107	.00054	.00681	-.00007	-.00025
#2	.00084	-.00032	-.00026	.06956	.00077	.00157	.00368	-.00004	-.00024
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	.15440	.00016	.00010	.0049	-.00031	.00205	-.00030	-.00009	.00312
Stddev	.00962	.00014	.00067	.0016	.00040	.00176	.00604	.00013	.00014
%RSD	6.2282	86.430	651.95	31.55	129.38	86.085	1981.5	139.14	4.4070
#1	.16120	.00026	-.00037	.0060	-.00059	.00080	.00397	.00000	.00322
#2	.14760	.00006	.00058	.0038	-.00003	.00329	-.00458	-.00018	.00303
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	-.00076	-.00042	.00053
Stddev	.00004	.00043	.00000	.00005
%RSD	82.037	56.713	1.0218	10.077
#1	-.00002	-.00106	-.00042	.00049
#2	-.00008	-.00046	-.00042	.00057
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	3998.1	6980.1	62447.	9004.2
Stddev	1.2	3.9	426.	46.5
%RSD	.02918	.05626	.68198	.51592
#1	3999.0	6982.9	62748.	9037.1
#2	3997.3	6977.3	62146.	8971.4

Sample Name: RB Acquired: 12/21/2012 16:34:32 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	.00039	.00608	-.00187	-.00054	.00206	.00003	-.00001	-.00006	-.00010
Stddev	.00070	.00985	.00064	.00069	.00009	.00002	.00211	.00012	.00001
%RSD	177.93	161.88	34.244	128.43	4.5669	58.694	23761.	211.82	12.898
#1	.00089	-.00088	-.00141	-.00005	.00200	.00002	.00148	-.00014	-.00009
#2	-.00010	.01305	-.00232	-.00103	.00213	.00004	-.00150	.00003	-.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	.00055	-.00046	.00063	.03967	.00086	-.00037	.00072	-.00008	-.00010
Stddev	.00009	.00001	.00468	.00171	.00008	.00112	.00363	.00006	.00001
%RSD	15.726	3.0623	740.04	4.3028	9.6456	302.91	501.36	75.676	13.049
#1	.00048	-.00047	-.00268	.04087	.00092	.00042	.00329	-.00013	-.00011
#2	.00061	-.00045	.00395	.03846	.00080	-.00116	-.00184	-.00004	-.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	.09255	.00035	-.00050	.0064	-.00006	.00067	.00157	.00008	.00124
Stddev	.00965	.00005	.00238	.0012	.00062	.00154	.00596	.00010	.00025
%RSD	10.425	14.443	476.33	18.80	1010.7	229.11	378.66	120.33	20.043
#1	.08573	.00031	.00118	.0072	.00038	.00176	.00579	.00015	.00141
#2	.09937	.00038	-.00218	.0055	-.00050	-.00042	-.00264	.00001	.00106
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	.00021	.00005	.00000	.00035
Stddev	.00017	.00064	.00004	.00049
%RSD	84.068	1363.9	2264.9	142.02
#1	.00008	-.00041	.00003	.00069
#2	.00033	.00050	-.00003	.00000
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	4013.4	7009.3	62901.	9462.7
Stddev	12.9	18.7	509.	551.6
%RSD	.32105	.26608	.80933	5.8293
#1	4004.3	6996.1	63261.	9852.8
#2	4022.5	7022.5	62541.	9072.7

Sample Name: RB Acquired: 12/21/2012 16:36:48 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	.00004	-.01575	.00002	-.00080	.00157	.00001	-.00191	-.00016	-.00001
Stddev	.00060	.01374	.00025	.00003	.00009	.00007	.00312	.00002	.00016
%RSD	1352.0	87.191	1277.6	3.8492	5.8519	612.26	163.89	11.389	2041.3
#1	.00047	-.02547	-.00016	-.00082	.00164	.00006	-.00411	-.00017	.00011
#2	-.00038	-.00604	.00020	-.00078	.00151	-.00004	.00030	-.00014	-.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	.00047	.00009	.00087	.05437	.00066	.00008	.00364	-.00012	-.00020
Stddev	.00030	.00028	.00024	.01759	.00038	.00015	.00221	.00003	.00025
%RSD	64.680	300.79	27.633	32.352	57.845	192.89	60.762	22.325	126.59
#1	.00068	-.00010	.00104	.04194	.00093	-.00003	.00521	-.00010	-.00002
#2	.00025	.00029	.00070	.06681	.00039	.00018	.00208	-.00014	-.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	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	.07372	.00049	.00033	.0016	.00152	.00118	.00079	.00037	.00084
Stddev	.00137	.00072	.00169	.0012	.00145	.00087	.01054	.00034	.00005
%RSD	1.8533	146.72	518.12	72.84	95.694	73.704	1338.5	94.055	5.9465
#1	.07276	-.00002	-.00087	.0008	.00254	.00179	-.00667	.00012	.00087
#2	.07469	.00100	.00152	.0024	.00049	.00056	.00824	.00061	.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	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	-.00009	-.00073	-.00037	.00036
Stddev	.00034	.00037	.00059	.00005
%RSD	363.66	51.334	157.62	13.976
#1	-.00033	-.00099	-.00079	.00040
#2	.00015	-.00046	.00004	.00033
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	4009.7	6994.1	62147.	8951.1
Stddev	4.3	15.7	397.	21.9
%RSD	.10611	.22434	.63818	.24425
#1	4012.8	7005.2	62427.	8966.6
#2	4006.7	6983.0	61866.	8935.7

Sample Name: CCV Acquired: 12/21/2012 16:39:07 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	.51099	23.677	.48736	.47748	.49033	.48347	23.949	.48696	.47733	.49881	.49253	23.304	24.540
Stddev	.00003	.024	.00057	.00105	.00016	.00096	.010	.00019	.00028	.00045	.00041	.034	.016
%RSD	.00593	.10309	.11712	.21963	.03252	.19834	.04022	.03858	.05792	.09061	.08375	.14532	.06698
#1	.51101	23.695	.48777	.47822	.49022	.48279	23.956	.48683	.47753	.49913	.49282	23.328	24.529
#2	.51097	23.660	.48696	.47674	.49044	.48415	23.942	.48710	.47714	.49849	.49224	23.280	24.552
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	25.246	.48616	24.627	.50970	.49920	24.997	.47987	.48050	24.41	.49034	.47494	24.668	.51338
Stddev	.154	.00289	.004	.00045	.00011	.024	.00190	.00195	.01	.00039	.00056	.084	.00109
%RSD	.60967	.59417	.01509	.08762	.02243	.09782	.39550	.40669	.0293	.07881	.11800	.33958	.21324
#1	25.137	.48820	24.630	.50938	.49912	24.980	.47853	.47912	24.41	.49062	.47454	24.609	.51261
#2	25.355	.48411	24.625	.51001	.49928	25.015	.48122	.48188	24.42	.49007	.47533	24.727	.51415
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	.48502	.50553	.49480	.50725	.50961
Stddev	.00077	.00028	.00143	.00118	.00202
%RSD	.15857	.05466	.28973	.23305	.39655
#1	.48448	.50533	.49582	.50809	.51104
#2	.48557	.50573	.49379	.50641	.50818
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	3684.4	6878.7	59718.	9075.1
Stddev	2.4	6.5	33.	28.1
%RSD	.06398	.09472	.05480	.30996
#1	3686.1	6874.1	59742.	9095.0
#2	3682.7	6883.3	59695.	9055.2

Sample Name: CCB Acquired: 12/21/2012 16:41:21 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	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00063	-.00659	-.00129	-.00024	.00112	.00011	.00249	-.00001	.00011	.00005	-.00022	.00445	.07258
Stddev	.00133	.01621	.00013	.00022	.00004	.00011	.00113	.00010	.00003	.00011	.00033	.00103	.04714
%RSD	211.98	246.15	9.8622	92.646	3.8620	95.163	45.267	840.30	28.803	201.85	147.07	23.037	64.946
#1	.00156	.00488	-.00138	-.00008	.00115	.00019	.00169	-.00008	.00009	-.00002	-.00045	.00518	.03925
#2	-.00031	-.01805	-.00120	-.00039	.00109	.00004	.00328	.00006	.00013	.00013	.00001	.00373	.10591
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	.00326	.00060	.00115	.00001	.00013	.05214	.00011	.00006	F .0032	.00232	.00136	.01171	.00016
Stddev	.00012	.00027	.00185	.00002	.00012	.00444	.00054	.00026	.0013	.00035	.00093	.02584	.00003
%RSD	3.7196	44.758	161.29	169.41	92.723	8.5154	501.96	431.70	39.42	15.153	68.127	220.59	16.654
#1	.00335	.00041	-.00016	.00000	.00022	.05528	-.00028	.00025	.0041	.00207	.00201	-.00656	.00018
#2	.00318	.00079	.00245	.00003	.00005	.04900	.00049	-.00013	.0023	.00257	.00070	.02998	.00014
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	.00066	.00002	.00039	-.00019	.00032
Stddev	.00000	.00006	.00051	.00030	.00024
%RSD	.65774	299.93	129.11	159.80	74.397
#1	.00067	-.00002	.00075	-.00040	.00015
#2	.00066	.00007	.00003	.00002	.00049
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	4036.9	7045.0	62300.	8998.9
Stddev	7.2	3.9	158.	7.7
%RSD	.17935	.05602	.25401	.08604
#1	4031.8	7042.2	62188.	8993.4
#2	4042.0	7047.8	62412.	9004.3

Sample Name: 480-30618-P-1-B@10 Acquired: 12/21/2012 16:43:41 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	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**	**.03301**	**-.00005**	**.03063**	F **39.504**	**-.00003**	**67.519**	F **-.00408**	**.00040**
Stddev	.00075	.01457	.00383	.00016	.249	.00000	.237	.00004	.00007
%RSD	367.85	44.133	7138.1	.53229	.62954	12.659	.35095	.91722	18.384
#1	.00073	.04331	.00265	.03052	39.680	-.00003	67.686	-.00410	.00035
#2	-.00033	.02271	-.00276	.03075	39.328	-.00003	67.351	-.00405	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					10.000			15.000	
Low Limit					-.00200			-.00100	

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	**.00163**	**.00039**	**.41107**	**1.4377**	**2.0749**	**.76394**	**4.4429**	**.02464**	**.00056**
Stddev	.00001	.00014	.00399	.0067	.0173	.00446	.0012	.00008	.00003
%RSD	.71692	35.462	.97143	.46685	.83294	.58359	.02683	.34104	5.5330
#1	.00163	.00048	.41389	1.4330	2.0871	.76709	4.4438	.02458	.00059
#2	.00162	.00029	.40824	1.4425	2.0627	.76079	4.4421	.02470	.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	**201.76**	**.00082**	**.00085**	**.0797**	**.00005**	**-.00139**	**.15561**	**-.00009**	F **20.827**
Stddev	.47	.00005	.00204	.0018	.00126	.00059	.00893	.00020	.160
%RSD	.23491	5.8552	239.28	2.200	2358.8	42.447	5.7390	237.95	.76836
#1	202.09	.00085	-.00059	.0810	-.00084	-.00181	.16192	-.00023	20.940
#2	201.42	.00078	.00229	.0785	.00094	-.00097	.14929	.00006	20.714
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit									10.000
Low Limit									-.00500

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	**.00069**	**-.00098**	**-.00067**	**.00186**
Stddev	.00021	.00232	.00051	.00018
%RSD	30.877	236.00	77.092	9.8422
#1	.00054	-.00262	-.00103	.00199
#2	.00084	.00066	-.00030	.00173
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	**3415.3**	**6542.0**	**57733.**	**8749.1**
Stddev	9.0	24.6	103.	46.9
%RSD	.26360	.37679	.17849	.53580
#1	3408.9	6524.5	57806.	8716.0
#2	3421.7	6559.4	57660.	8782.3

Sample Name: RB Acquired: 12/21/2012 16:46:15 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	.00002	-.00663	-.00043	-.00038	.00460	-.00003	.00548	-.00012	.00001
Stddev	.00043	.01534	.00039	.00044	.00045	.00011	.00398	.00015	.00023
%RSD	2838.4	231.30	92.154	115.14	9.7545	336.45	72.721	122.93	2163.0
#1	-.00029	.00421	-.00071	-.00007	.00491	-.00011	.00830	-.00023	.00017
#2	.00032	-.01748	-.00015	-.00069	.00428	.00005	.00266	-.00002	-.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	.00036	-.00009	.00052	.03463	.00043	.00006	.00481	-.00007	-.00011
Stddev	.00050	.00005	.00047	.03718	.00031	.00026	.00358	.00002	.00010
%RSD	138.64	50.292	90.155	107.34	72.396	457.39	74.386	25.959	87.402
#1	.00001	-.00013	.00019	.06092	.00065	-.00013	.00228	-.00008	-.00018
#2	.00071	-.00006	.00085	.00835	.00021	.00024	.00735	-.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	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	.09080	.00008	.00025	.0010	.00027	.00188	-.00911	.00006	.00333
Stddev	.01494	.00004	.00043	.0007	.00016	.00528	.00723	.00028	.00041
%RSD	16.454	47.889	173.71	76.19	58.926	280.18	79.344	456.67	12.218
#1	.10136	.00010	.00055	.0015	.00038	-.00185	-.01422	.00026	.00362
#2	.08023	.00005	-.00006	.0004	.00016	.00561	-.00400	-.00014	.00304
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	.00002	-.00155	-.00008	.00007
Stddev	.00016	.00039	.00008	.00021
%RSD	687.90	25.142	101.27	277.40
#1	-.00009	-.00128	-.00013	.00022
#2	.00013	-.00183	-.00002	-.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	4027.7	7044.4	61987.	8975.9
Stddev	9.0	2.8	138.	105.2
%RSD	.22283	.03934	.22335	1.1722
#1	4021.4	7042.5	61889.	8901.5
#2	4034.1	7046.4	62085.	9050.3

Sample Name: RB Acquired: 12/21/2012 16:48:30 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	.00016	.00657	-.00003	-.00021	.01837	.00006	.07911	-.00015	.00015
Stddev	.00040	.01463	.00093	.00035	.00130	.00003	.00999	.00003	.00004
%RSD	260.94	222.64	2756.3	163.29	7.0720	41.956	12.632	17.236	27.066
#1	.00044	.01691	.00062	.00003	.01929	.00004	.08617	-.00013	.00012
#2	-.00013	-.00377	-.00069	-.00046	.01745	.00008	.07204	-.00017	.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	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	.00130	-.00025	.01238	.02548	.01111	.00036	.01768	.00013	-.00013
Stddev	.00017	.00012	.00240	.01555	.00055	.00122	.00078	.00006	.00005
%RSD	13.208	46.805	19.413	61.018	4.9535	336.83	4.4055	45.859	39.573
#1	.00142	-.00017	.01407	.01449	.01150	.00123	.01713	.00017	-.00017
#2	.00118	-.00034	.01068	.03647	.01072	-.00050	.01823	.00009	-.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	.26722	.00044	-.00004	.0085	.00098	-.00032	.00775	.00009	.01204
Stddev	.01318	.00025	.00016	.0029	.00134	.00141	.01234	.00003	.00089
%RSD	4.9322	57.254	403.83	34.25	136.85	443.80	159.17	29.479	7.3869
#1	.27654	.00061	.00007	.0106	.00193	-.00131	.01647	.00011	.01267
#2	.25790	.00026	-.00015	.0064	.00003	.00068	-.00097	.00007	.01141
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	-.00015	-.00191	-.00036	.00026
Stddev	.00026	.00013	.00002	.00050
%RSD	172.52	6.9908	6.6792	188.69
#1	.00003	-.00201	-.00035	.00062
#2	-.00034	-.00182	-.00038	-.00009
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	4042.8	7057.0	63038.	8896.4
Stddev	10.0	8.8	88.	25.0
%RSD	.24749	.12528	.13960	.28121
#1	4049.9	7063.3	62976.	8914.1
#2	4035.7	7050.8	63101.	8878.7

Sample Name: RB Acquired: 12/21/2012 16:50:45 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	.00054	.00856	-.00036	-.00067	.01158	.00002	.03573	-.00009	-.00002
Stddev	.00057	.01011	.00255	.00051	.00025	.00004	.00073	.00000	.00005
%RSD	105.89	118.12	714.41	75.540	2.1356	224.88	2.0506	4.1795	238.03
#1	.00094	.01571	.00145	-.00031	.01141	-.00001	.03625	-.00008	-.00006
#2	.00014	.00141	-.00216	-.00103	.01175	.00005	.03521	-.00009	.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	.00083	-.00047	.00516	.04980	.00524	.00074	.01605	.00011	.00016
Stddev	.00032	.00018	.00264	.03180	.00069	.00100	.00468	.00001	.00017
%RSD	39.022	37.952	51.223	63.848	13.228	135.98	29.152	6.3648	104.37
#1	.00106	-.00060	.00703	.07229	.00573	.00145	.01274	.00010	.00004
#2	.00060	-.00035	.00329	.02732	.00475	.00003	.01935	.00011	.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	.13383	.00011	-.00048	.0061	.00012	-.00069	-.00521	.00004	.00579
Stddev	.00079	.00019	.00073	.0029	.00068	.00206	.00821	.00009	.00007
%RSD	.59258	171.60	151.09	47.61	574.60	298.69	157.49	236.56	1.2571
#1	.13327	.00024	-.00100	.0081	-.00036	-.00215	.00059	-.00002	.00574
#2	.13439	-.00002	.00003	.0040	.00060	.00077	-.01101	.00010	.00584
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	.00012	.00088	-.00055	.00004
Stddev	.00019	.00007	.00007	.00018
%RSD	156.66	8.2464	13.434	444.64
#1	.00025	.00083	-.00060	-.00009
#2	-.00001	.00093	-.00050	.00017
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	4037.2	7046.5	60432.	9050.1
Stddev	23.7	36.2	2507.	21.0
%RSD	.58669	.51305	4.1492	.23162
#1	4020.4	7020.9	62205.	9035.3
#2	4053.9	7072.0	58659.	9064.9

Sample Name: RB Acquired: 12/21/2012 16:53:01 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	**-.00035**	**.00934**	**-.00095**	**-.00101**	**.00348**	**.00003**	**.00980**	**-.00011**	**.00008**
Stddev	.00012	.00335	.00291	.00011	.00034	.00003	.00506	.00005	.00022
%RSD	34.876	35.854	306.56	10.531	9.8715	84.073	51.604	45.493	271.73
#1	-.00026	.01171	-.00301	-.00094	.00373	.00001	.01338	-.00015	.00024
#2	-.00043	.00697	.00111	-.00109	.00324	.00005	.00622	-.00008	-.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	**.00049**	**-.00041**	**.00213**	**.02469**	**.00149**	**-.00042**	**.00663**	**.00001**	**-.00003**
Stddev	.00018	.00064	.00169	.02324	.00056	.00090	.00212	.00004	.00006
%RSD	35.667	157.75	79.147	94.103	37.626	213.56	31.926	300.13	234.15
#1	.00037	.00005	.00094	.00826	.00189	.00022	.00514	.00004	.00002
#2	.00062	-.00086	.00333	.04112	.00110	-.00106	.00813	-.00001	-.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	**.07141**	**.00008**	**.00041**	**.0029**	**.00018**	**.00102**	**.00854**	**.00044**	**.00231**
Stddev	.00379	.00024	.00116	.0001	.00159	.00205	.01088	.00013	.00025
%RSD	5.3128	321.51	280.41	4.323	873.07	200.70	127.43	29.858	10.605
#1	.06873	.00025	.00123	.0030	.00131	-.00043	.00084	.00053	.00248
#2	.07409	-.00010	-.00041	.0028	-.00094	.00248	.01624	.00035	.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	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**	**.00048**	**.00007**	**.00018**
Stddev	.00025	.00134	.00006	.00024
%RSD	71.852	277.08	89.392	137.05
#1	-.00017	.00143	.00003	.00035
#2	-.00053	-.00046	.00012	.00001
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	**4012.8**	**7024.8**	**60416.**	**9103.0**
Stddev	14.1	22.1	1592.	12.0
%RSD	.35016	.31502	2.6357	.13159
#1	4002.9	7009.1	61542.	9094.5
#2	4022.7	7040.4	59290.	9111.5

Sample Name: 480-30605-A-1-B Acquired: 12/21/2012 16:55:16 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	**-.00001**	**444.14**	**.03600**	**.02656**	**.06919**	**.00094**	**20.576**	**-.00014**	**.00441**
Stddev	.00064	2.46	.00208	.00038	.00014	.00002	.055	.00001	.00022
%RSD	5901.2	.55311	5.7638	1.4231	.20721	2.0920	.26775	7.3840	5.0054
#1	.00044	442.40	.03747	.02629	.06929	.00093	20.537	-.00015	.00456
#2	-.00046	445.88	.03453	.02682	.06909	.00095	20.615	-.00013	.00425
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	**.44859**	**.08123**	**41.372**	**4.7889**	**7.0375**	**.00237**	**4.1909**	**.83193**	**.00792**
Stddev	.00144	.00025	.209	.0370	.0589	.00039	.0068	.00066	.00058
%RSD	.31995	.31204	.50529	.77273	.83671	16.620	.16323	.07888	7.2744
#1	.44757	.08105	41.225	4.7627	6.9958	.00209	4.1958	.83239	.00833
#2	.44960	.08141	41.520	4.8151	7.0791	.00265	4.1861	.83146	.00752
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	**99.821**	**.02408**	**.03870**	F **60.28**	**.00149**	**.00993**	**32.375**	**.00564**	**.13065**
Stddev	.290	.00000	.00112	.04	.00010	.00141	.028	.00051	.00065
%RSD	.29009	.01578	2.8953	.0690	6.6796	14.235	.08514	9.1264	.49549
#1	99.617	.02408	.03791	60.31	.00157	.01092	32.394	.00527	.13020
#2	100.03	.02408	.03950	60.25	.00142	.00893	32.355	.00600	.13111
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	**.96852**	**-.00140**	**.22434**	**.13106**
Stddev	.00432	.00245	.00048	.00130
%RSD	.44638	174.58	.21594	.99564
#1	.97157	-.00313	.22468	.13199
#2	.96546	.00033	.22400	.13014
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	**3433.9**	**6872.8**	**58980.**	**9257.7**
Stddev	1.5	7.6	106.	16.8
%RSD	.04410	.11056	.17995	.18102
#1	3434.9	6867.4	58905.	9269.5
#2	3432.8	6878.2	59055.	9245.8

Sample Name: 480-30586-A-1-A Acquired: 12/21/2012 16:57:30 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	**.00035**	**118.95**	**.00110**	**.02714**	**.01351**	**.00013**	**12.278**	**-.00012**	**.00000**
Stddev	.00061	.41	.00184	.00074	.00002	.00006	.044	.00018	.0001
%RSD	172.59	.34156	167.84	2.7347	.13676	47.058	.36246	151.66	39194.
#1	.00078	118.67	-.00021	.02766	.01350	.00008	12.246	.00001	.00010
#2	-.00008	119.24	.00240	.02661	.01352	.00017	12.309	-.00024	-.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	**.00334**	**.02458**	**.12746**	**15.678**	**17.162**	**.00131**	**1.8307**	**.01561**	**.00588**
Stddev	.00007	.00064	.00138	.090	.207	.00145	.0019	.00002	.00005
%RSD	2.1630	2.5964	1.0846	.57328	1.2051	110.89	.10211	.14004	.87057
#1	.00329	.02503	.12843	15.614	17.016	.00233	1.8294	.01559	.00591
#2	.00339	.02413	.12648	15.741	17.309	.00028	1.8320	.01562	.00584
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	**19.526**	**.00053**	**-.00147**	F **29.50**	**.00085**	**.00665**	**8.6273**	**.00082**	**.12741**
Stddev	.120	.00075	.00119	.18	.00070	.00050	.0291	.00016	.00080
%RSD	.61638	139.37	80.445	.6140	82.266	7.4551	.33714	19.412	.62642
#1	19.440	.00001	-.00064	29.63	.00135	.00630	8.6067	.00071	.12685
#2	19.611	.00106	-.00231	29.37	.00036	.00700	8.6479	.00094	.12797
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	**.00608**	**-.00081**	**.00343**	**1.6731**
Stddev	.00032	.00041	.00010	.0050
%RSD	5.2525	50.529	3.0047	.29594
#1	.00631	-.00052	.00350	1.6696
#2	.00586	-.00110	.00335	1.6766
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	**3734.4**	**6971.4**	**61425.**	**9190.1**
Stddev	5.4	13.6	5.	58.3
%RSD	.14434	.19510	.00834	.63452
#1	3730.6	6961.7	61428.	9231.3
#2	3738.2	6981.0	61421.	9148.9

Sample Name: MB 480-96546/15-B Acquired: 12/21/2012 16:59:57 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	.00038	.03765	-.00006	-.00070	.00019	.00007	.00268	-.00013	-.00008
Stddev	.00040	.00500	.00093	.00017	.00002	.00013	.00089	.00006	.00012
%RSD	103.56	13.291	1655.8	24.138	10.882	198.59	33.209	49.104	156.06
#1	.00010	.03411	-.00071	-.00082	.00017	.00016	.00331	-.00009	-.00016
#2	.00067	.04119	.00060	-.00058	.00020	-.00003	.00205	-.00018	.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	.00039	-.00067	-.00009	.01652	.00276	-.00047	.00237	.00031	.00015
Stddev	.00005	.00013	.00488	.01403	.00005	.00104	.00474	.00005	.00028
%RSD	11.936	19.384	5265.8	84.970	1.7143	222.43	200.19	16.093	189.96
#1	.00036	-.00057	-.00355	.02644	.00272	.00027	-.00098	.00028	-.00005
#2	.00042	-.00076	.00336	.00659	.00279	-.00120	.00572	.00035	.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	.01021	.00019	.00013	F .0311	-.00022	.00335	-.00597	.00039	-.00001
Stddev	.00566	.00054	.00018	.0028	.00051	.00186	.00220	.00038	.00002
%RSD	55.456	278.85	139.64	9.064	231.67	55.354	36.779	95.774	232.29
#1	.01421	.00057	.00025	.0331	.00014	.00466	-.00753	.00013	.00001
#2	.00620	-.00019	.00000	.0292	-.00058	.00204	-.00442	.00066	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit				.0022					
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	-.00034	-.00047	-.00051	.00069
Stddev	.00031	.00061	.00020	.00009
%RSD	91.473	129.56	38.567	13.549
#1	-.00012	-.00091	-.00037	.00063
#2	-.00056	-.00004	-.00065	.00076
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	3991.4	7001.6	62408.	9063.2
Stddev	38.0	55.4	20.	77.6
%RSD	.95256	.79171	.03150	.85618
#1	4018.3	7040.8	62422.	9118.0
#2	3964.5	6962.4	62394.	9008.3

Sample Name: LCS 480-96546/16-B Acquired: 12/21/2012 17:02:23 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	.05251	10.056	.20390	.20205	.21024	.21109	10.131	.20267	.20298
Stddev	.00041	.166	.00120	.00027	.00171	.00427	.199	.00002	.00077
%RSD	.77718	1.6551	.58659	.13158	.81445	2.0241	1.9690	.01004	.38177
#1	.05223	9.9384	.20305	.20186	.20903	.20807	9.9904	.20266	.20244
#2	.05280	10.174	.20475	.20224	.21145	.21411	10.272	.20269	.20353
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	.20795	.20508	9.9986	10.358	9.9356	.20626	10.242	.20797	.21040
Stddev	.00055	.00182	.1735	.164	.1479	.00374	.084	.00125	.00029
%RSD	.26527	.88837	1.7348	1.5804	1.4888	1.8137	.81630	.59966	.13786
#1	.20756	.20379	9.8759	10.242	9.8310	.20361	10.183	.20709	.21020
#2	.20834	.20637	10.121	10.474	10.040	.20890	10.301	.20885	.21061
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	10.505	.20047	.19851	F .0119	.20121	.19594	10.519	.20174	.20465
Stddev	.178	.00018	.00186	.0025	.00178	.00366	.177	.00085	.00377
%RSD	1.6897	.08737	.93571	20.77	.88644	1.8696	1.6789	.42358	1.8416
#1	10.380	.20035	.19720	.0137	.19995	.19853	10.394	.20114	.20199
#2	10.631	.20060	.19982	.0102	.20247	.19335	10.644	.20235	.20732
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	.20255	.20372	.20901	.21287
Stddev	.00038	.00075	.00058	.00009
%RSD	.18668	.36756	.27646	.04450
#1	.20282	.20319	.20861	.21294
#2	.20228	.20425	.20942	.21281
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	3858.5	6999.7	61482.	9061.0
Stddev	10.8	10.4	159.	128.6
%RSD	.27975	.14792	.25907	1.4197
#1	3866.2	7007.1	61595.	9152.0
#2	3850.9	6992.4	61370.	8970.0

Sample Name: 480-30600-A-1-A Acquired: 12/21/2012 17:04:41 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	.00097	-.01262	-.00097	.01531	.01368	.00004	10.309	-.00010	.00009
Stddev	.00074	.01310	.00021	.00005	.00002	.00009	.031	.00002	.00025
%RSD	76.346	103.76	21.640	.34795	.11241	249.27	.29650	24.231	287.33
#1	.00044	-.02188	-.00112	.01535	.01366	-.00003	10.287	-.00008	-.00009
#2	.00149	-.00336	-.00082	.01527	.01369	.00010	10.331	-.00012	.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	.00081	.00031	.00595	2.4459	2.3154	.00049	2.0956	.00033	.00036
Stddev	.00077	.00003	.00137	.0280	.0147	.00047	.0217	.00007	.00004
%RSD	95.037	8.7635	22.973	1.1440	.63547	96.675	1.0362	20.106	10.990
#1	.00027	.00029	.00498	2.4657	2.3050	.00082	2.0803	.00029	.00034
#2	.00136	.00033	.00691	2.4261	2.3258	.00015	2.1110	.00038	.00039
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	13.870	.00052	.00054	3.085	.00062	.00081	5.0677	.00015	.06326
Stddev	.086	.00031	.00101	.013	.00098	.00204	.0610	.00009	.00070
%RSD	.62016	60.129	189.39	.4357	159.09	252.46	1.2029	60.020	1.1126
#1	13.809	.00030	-.00018	3.075	-.00008	.00226	5.0246	.00009	.06276
#2	13.930	.00074	.00125	3.094	.00131	-.00064	5.1108	.00021	.06376
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	.00024	-.00070	.00048	.00136
Stddev	.00004	.00008	.00045	.00014
%RSD	17.242	12.047	93.329	10.074
#1	.00027	-.00064	.00016	.00126
#2	.00021	-.00076	.00080	.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	3940.8	6985.9	61800.	9162.6
Stddev	1.2	13.3	245.	100.6
%RSD	.03037	.19101	.39605	1.0979
#1	3941.7	6995.3	61973.	9233.7
#2	3940.0	6976.4	61627.	9091.4

Sample Name: CCV Acquired: 12/21/2012 17:07:00 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	.50854	24.103	.49009	.47941	.50091	.49578	24.489	.49019	.47903	.50504	.49623	23.877	25.091
Stddev	.00217	.162	.00201	.00160	.00287	.00507	.226	.00033	.00030	.00684	.00617	.211	.243
%RSD	.42579	.67206	.40987	.33334	.57356	1.0227	.92386	.06773	.06236	1.3536	1.2427	.88235	.96906
#1	.51007	23.988	.48867	.48054	.49888	.49219	24.329	.48996	.47882	.50988	.50059	23.728	24.919
#2	.50701	24.217	.49151	.47828	.50294	.49936	24.649	.49043	.47924	.50021	.49187	24.026	25.263
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	25.562	.49648	24.512	.50734	.50125	25.541	.48245	.48461	24.30	.49445	.47755	25.104	.51555
Stddev	.114	.00517	.214	.00637	.00030	.227	.00069	.00283	.04	.00281	.00338	.223	.00013
%RSD	.44763	1.0411	.87206	1.2564	.05996	.88885	.14233	.58422	.1534	.56863	.70693	.88810	.02557
#1	25.481	.49283	24.663	.51185	.50104	25.381	.48197	.48261	24.33	.49246	.47516	24.946	.51545
#2	25.643	.50014	24.361	.50284	.50146	25.702	.48294	.48661	24.28	.49644	.47993	25.262	.51564
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	.49771	.51396	.49230	.50748	.51433
Stddev	.00375	.00721	.00149	.00839	.00718
%RSD	.75364	1.4030	.30208	1.6538	1.3956
#1	.49505	.51906	.49125	.51341	.51940
#2	.50036	.50886	.49335	.50155	.50925
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	3678.8	6855.0	59456.	8919.4
Stddev	1.1	8.4	654.	109.6
%RSD	.03097	.12264	1.1007	1.2290
#1	3679.6	6849.1	58993.	8997.0
#2	3678.0	6861.0	59919.	8841.9

Sample Name: CCB Acquired: 12/21/2012 17:09:17 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	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00026	.02363	-.00104	-.00034	.00006	.00005	-.00158	.00001	.00001	.00020	-.00007	.00633	.01986
Stddev	.00079	.00058	.00092	.00010	.00001	.00012	.00462	.00003	.00000	.00007	.00014	.00079	.02395
%RSD	302.81	2.4409	88.111	30.171	10.060	228.46	292.81	307.57	17.211	35.327	211.28	12.512	120.60
#1	.00082	.02404	-.00039	-.00042	.00006	.00013	.00169	-.00001	.00001	.00025	-.00017	.00689	.03679
#2	-.00030	.02322	-.00169	-.00027	.00007	-.00003	-.00484	.00003	.00001	.00015	.00003	.00577	.00292
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	.00214	-.00034	.00462	-.00005	-.00019	.02400	.00040	.00030	F .0049	.00037	-.00085	.00321	.00015
Stddev	.00051	.00033	.00174	.00011	.00008	.00826	.00023	.00066	.0028	.00020	.00146	.00156	.00004
%RSD	23.714	96.860	37.648	245.79	43.942	34.436	55.749	220.33	55.89	55.340	171.98	48.471	25.357
#1	.00250	-.00057	.00585	.00003	-.00025	.02984	.00025	.00076	.0069	.00022	-.00189	.00431	.00018
#2	.00178	-.00011	.00339	-.00013	-.00013	.01816	.00056	-.00017	.0030	.00051	.00018	.00211	.00013
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	.00017	.00024	.00013	-.00012	.00038
Stddev	.00002	.00017	.00109	.00016	.00019
%RSD	8.8583	70.499	822.95	139.32	49.554
#1	.00016	.00012	.00090	-.00023	.00025
#2	.00018	.00036	-.00064	.00000	.00052
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	4022.1	7030.7	62042.	8865.5
Stddev	4.2	13.5	160.	13.8
%RSD	.10446	.19165	.25715	.15533
#1	4019.2	7021.2	61929.	8875.3
#2	4025.1	7040.3	62155.	8855.8

Sample Name: 480-30600-A-2-A Acquired: 12/21/2012 17:11:38 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	.00063	.00191	-.00040	.01294	.01212	-.00007	9.7650	-.00016	.00014
Stddev	.00119	.00607	.00045	.00019	.00006	.00008	.3603	.00011	.00015
%RSD	187.02	317.29	111.06	1.4813	.48507	121.60	3.6899	72.040	104.71
#1	-.00020	-.00238	-.00009	.01308	.01216	-.00001	10.020	-.00008	.00004
#2	.00147	.00620	-.00072	.01281	.01208	-.00012	9.5102	-.00024	.00024
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	.00101	.00200	.00346	2.3858	2.2455	.00032	2.0359	.00241	.00009
Stddev	.00009	.00019	.00021	.1050	.0750	.00142	.0200	.00007	.00013
%RSD	8.7149	9.3570	6.0504	4.4001	3.3399	451.05	.98481	3.0943	142.10
#1	.00108	.00187	.00331	2.4600	2.2985	.00132	2.0500	.00246	.00000
#2	.00095	.00213	.00360	2.3116	2.1924	-.00069	2.0217	.00236	.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	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	14.442	.00030	-.00030	2.966	.00180	.00494	4.8979	.00044	.05943
Stddev	.530	.00025	.00037	.006	.00094	.00046	.1849	.00013	.00216
%RSD	3.6689	84.533	122.85	.1905	51.915	9.2382	3.7751	28.508	3.6319
#1	14.816	.00048	-.00004	2.962	.00246	.00461	5.0286	.00035	.06096
#2	14.067	.00012	-.00057	2.970	.00114	.00526	4.7671	.00053	.05790
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	.00004	-.00046	.00525
Stddev	.00004	.00154	.00009	.00019
%RSD	551.37	3608.4	20.050	3.5338
#1	.00002	.00113	-.00039	.00512
#2	-.00004	-.00104	-.00052	.00539
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	3941.3	6989.1	61469.	8887.0
Stddev	11.4	27.9	31.	284.7
%RSD	.28845	.39957	.05055	3.2036
#1	3933.3	6969.3	61447.	8685.7
#2	3949.4	7008.8	61491.	9088.3

Sample Name: 480-30598-A-1-A Acquired: 12/21/2012 17:13:52 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	**-.00009**	**.00424**	**.00023**	**.05543**	**.09882**	**.00001**	**149.00**	**.00038**	**-.00006**
Stddev	.00098	.01355	.00204	.00051	.00055	.00002	.39	.00021	.00000
%RSD	1112.6	319.88	871.60	.91292	.55798	237.62	.25857	55.014	6.1422
#1	.00061	.01382	.00168	.05508	.09921	.00002	149.27	.00024	-.00006
#2	-.00078	-.00535	-.00121	.05579	.09843	.00000	148.73	.00053	-.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	**.00189**	**.00044**	**1.2467**	**1.2589**	**1.5349**	**.00792**	**64.692**	**.12660**	**.00245**
Stddev	.00090	.00033	.0076	.0079	.0100	.00106	.365	.00025	.00016
%RSD	47.461	74.653	.61314	.63108	.65116	13.454	.56495	.19384	6.7039
#1	.00126	.00067	1.2521	1.2645	1.5420	.00716	64.950	.12678	.00256
#2	.00253	.00021	1.2413	1.2533	1.5279	.00867	64.433	.12643	.00233
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	**24.941**	**.00124**	**.00009**	F **89.28**	**-.00047**	**.00048**	**10.181**	**.00004**	**.49579**
Stddev	.087	.00019	.00247	.06	.00163	.00183	.027	.00023	.00121
%RSD	.34961	14.992	2871.2	.0677	345.39	378.74	.26819	610.86	.24374
#1	25.003	.00137	-.00166	89.32	-.00163	-.00081	10.200	.00020	.49664
#2	24.879	.00111	.00183	89.23	.00068	.00178	10.162	-.00013	.49493
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	**.00087**	**.00056**	**.00073**	**.00068**
Stddev	.00055	.00025	.00016	.00000
%RSD	63.154	45.487	22.417	.70801
#1	.00048	.00074	.00085	.00068
#2	.00126	.00038	.00062	.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	**3550.8**	**6620.0**	**59042.**	**8985.8**
Stddev	2.6	7.4	234.	41.6
%RSD	.07265	.11153	.39670	.46335
#1	3548.9	6625.2	58876.	8956.3
#2	3552.6	6614.7	59208.	9015.2

Sample Name: 480-30598-A-2-A Acquired: 12/21/2012 17:16:05 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	**.00025**	**.00564**	**-.00142**	**.02009**	**.03296**	**-.00007**	**83.518**	**.00008**	**.00004**
Stddev	.00024	.01307	.00134	.00047	.00003	.00008	.105	.00012	.00007
%RSD	94.598	231.82	94.277	2.3535	.09371	115.89	.12529	148.27	173.50
#1	.00042	-.00360	-.00047	.01976	.03293	-.00013	83.444	.00016	-.00001
#2	.00008	.01488	-.00236	.02043	.03298	-.00001	83.592	.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	**.00123**	**.00113**	**.14840**	**1.1966**	**1.2662**	**.00363**	**46.162**	**.01405**	**.00591**
Stddev	.00003	.00013	.00125	.0211	.0066	.00011	.116	.00001	.00005
%RSD	2.6736	11.812	.84156	1.7660	.52544	2.9437	.25139	.05088	.77305
#1	.00121	.00103	.14928	1.2115	1.2709	.00356	46.080	.01405	.00588
#2	.00126	.00122	.14752	1.1816	1.2615	.00371	46.244	.01406	.00594
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	**4.9745**	**.00083**	**-.00077**	F **44.11**	**.00070**	**-.00005**	**6.3054**	**-.00005**	**.08501**
Stddev	.0148	.00019	.00057	.02	.00044	.00184	.0104	.00014	.00004
%RSD	.29691	22.473	73.997	.0548	62.587	3834.7	.16547	283.07	.05126
#1	4.9849	.00096	-.00118	44.13	.00102	.00125	6.2981	-.00015	.08504
#2	4.9640	.00070	-.00037	44.09	.00039	-.00135	6.3128	.00005	.08498
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	**.00070**	**-.00154**	**.00004**	**.00257**
Stddev	.00015	.00099	.00025	.00049
%RSD	22.126	64.105	563.76	19.018
#1	.00081	-.00084	.00022	.00292
#2	.00059	-.00224	-.00013	.00222
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	**3703.3**	**6788.7**	**59994.**	**9034.2**
Stddev	6.2	20.5	1.	2.8
%RSD	.16864	.30256	.00137	.03080
#1	3698.9	6774.2	59994.	9032.3
#2	3707.7	6803.2	59995.	9036.2

Sample Name: 480-30598-A-3-A Acquired: 12/21/2012 17:18:19 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	**-.00011**	**.04010**	**-.00016**	**.28326**	**.05009**	**-.00006**	**46.698**	**-.00002**	**.00004**
Stddev	.00029	.00163	.00112	.00033	.00006	.00011	.091	.00009	.00003
%RSD	267.19	4.0539	678.54	.11735	.11746	175.74	.19479	390.29	68.677
#1	-.00032	.03895	-.00095	.28350	.05005	.00002	46.763	.00004	.00002
#2	.00010	.04125	.00062	.28303	.05013	-.00014	46.634	-.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	**.00104**	**.00000**	**.08842**	**2.5032**	**2.9601**	**.00787**	**19.645**	**.07628**	**.03015**
Stddev	.00016	.00036	.00354	.0446	.0042	.00117	.017	.00035	.00017
%RSD	15.499	7770.1	4.0086	1.7809	.14074	14.827	.08476	.46503	.56960
#1	.00116	.00026	.08591	2.5347	2.9631	.00704	19.657	.07653	.03003
#2	.00093	-.00025	.09093	2.4716	2.9572	.00869	19.633	.07603	.03027
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	**44.737**	**.00072**	**-.00024**	F **27.52**	**.00093**	**.00397**	**7.2616**	**.00010**	**.64561**
Stddev	.224	.00006	.00191	.00	.00056	.00013	.0594	.00032	.00134
%RSD	.50017	8.3951	793.11	.0069	60.127	3.3261	.81795	328.31	.20740
#1	44.896	.00068	-.00159	27.52	.00132	.00388	7.3036	-.00013	.64656
#2	44.579	.00077	.00111	27.52	.00053	.00406	7.2196	.00033	.64466
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	**.00147**	**-.00063**	**.00112**	**.00180**
Stddev	.00023	.00044	.00002	.00042
%RSD	15.619	69.246	1.8496	23.558
#1	.00131	-.00032	.00114	.00150
#2	.00163	-.00094	.00111	.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	**3719.7**	**6816.6**	**60656.**	**8952.9**
Stddev	4.6	6.2	124.	42.7
%RSD	.12436	.09052	.20438	.47746
#1	3716.5	6812.3	60568.	8922.7
#2	3723.0	6821.0	60744.	8983.2

Sample Name: 480-30598-A-3-A SD@5 Acquired: 12/21/2012 17:20:32 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	.00018	-.00456	-.00186	.05568	.01016	.00000	9.4704	-.00001	-.00016
Stddev	.00064	.01410	.00130	.00013	.00017	.0001	.0239	.00002	.00010
%RSD	344.59	308.85	69.734	.24202	1.6662	6129.9	.25239	345.40	60.797
#1	-.00027	.00540	-.00094	.05578	.01028	-.00004	9.4535	-.00002	-.00023
#2	.00064	-.01453	-.00278	.05559	.01004	.00003	9.4873	.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	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	.00047	-.00056	.01463	.51367	.46117	.00111	3.9490	.01529	.00617
Stddev	.00009	.00004	.00293	.05713	.00421	.00187	.0680	.00029	.00012
%RSD	20.208	7.5116	20.012	11.122	.91192	168.27	1.7230	1.8642	1.9137
#1	.00054	-.00053	.01670	.47327	.45820	.00243	3.9972	.01549	.00608
#2	.00040	-.00059	.01256	.55406	.46415	-.00021	3.9009	.01509	.00625
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	9.0795	.00028	-.00034	5.419	.00044	.00199	1.4690	-.00002	.13047
Stddev	.0150	.00078	.00187	.053	.00045	.00449	.0271	.00039	.00035
%RSD	.16486	278.76	556.94	.9785	102.45	226.12	1.8455	1785.4	.27174
#1	9.0689	.00083	-.00166	5.457	.00012	.00516	1.4499	-.00029	.13022
#2	9.0901	-.00027	.00099	5.382	.00076	-.00119	1.4882	.00025	.13072
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	.00016	-.00031	-.00037	.00069
Stddev	.00079	.00104	.00033	.00011
%RSD	504.92	334.31	88.301	15.868
#1	-.00040	.00042	-.00014	.00061
#2	.00072	-.00105	-.00060	.00076
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	3930.3	6964.9	62280.	8951.7
Stddev	24.2	44.8	969.	65.7
%RSD	.61451	.64290	1.5567	.73433
#1	3913.2	6933.2	61594.	8998.2
#2	3947.4	6996.5	62965.	8905.2

Sample Name: 480-30598-A-3-A PDS Acquired: 12/21/2012 17:22:45 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	.05096	10.183	.21015	.47867	.25697	.21442	55.309	.20574	.20491
Stddev	.00084	.147	.00180	.00028	.00088	.00230	.717	.00029	.00027
%RSD	1.6452	1.4423	.85582	.05888	.34094	1.0741	1.2958	.14137	.12955
#1	.05037	10.287	.21143	.47887	.25635	.21605	55.816	.20554	.20472
#2	.05155	10.079	.20888	.47847	.25759	.21279	54.803	.20595	.20509
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	.20786	.20537	10.139	12.827	13.363	.22045	29.260	.27861	.24225
Stddev	.00040	.00150	.140	.145	.452	.00200	.074	.00070	.00054
%RSD	.19239	.73234	1.3800	1.1343	3.3819	.90870	.25395	.25108	.22385
#1	.20814	.20431	10.238	12.930	13.682	.22186	29.207	.27811	.24264
#2	.20757	.20644	10.040	12.724	13.043	.21903	29.313	.27910	.24187
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	52.794	.20315	.20082	F 26.74	.20768	.20279	17.869	.21038	.83412
Stddev	.881	.00016	.00147	.03	.00011	.00215	.253	.00018	.00965
%RSD	1.6681	.07891	.73435	.1296	.05420	1.0586	1.4147	.08530	1.1574
#1	53.417	.20326	.20187	26.76	.20776	.20127	18.047	.21025	.84095
#2	52.171	.20304	.19978	26.71	.20760	.20430	17.690	.21051	.82730
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	.20745	.20692	.21351	.21418
Stddev	.00011	.00072	.00026	.00014
%RSD	.05230	.34968	.12277	.06339
#1	.20738	.20743	.21333	.21428
#2	.20753	.20641	.21370	.21409
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	6831.0	60274.	8949.0
Stddev	5.6	18.3	92.	171.9
%RSD	.15337	.26750	.15294	1.9208
#1	3641.8	6843.9	60209.	8827.4
#2	3633.9	6818.1	60339.	9070.5

Sample Name: 480-30598-A-3-B MS Acquired: 12/21/2012 17:24:56 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	.05348	10.053	.20577	.48821	.25776	.21012	55.934	.20406	.20329
Stddev	.00053	.014	.00089	.00159	.00039	.00068	.279	.00062	.00119
%RSD	.98229	.13502	.43491	.32498	.15231	.32312	.49966	.30528	.58651
#1	.05385	10.063	.20514	.48933	.25748	.21060	56.132	.20450	.20413
#2	.05311	10.044	.20640	.48708	.25804	.20964	55.737	.20362	.20244
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	.20432	.20381	9.9614	12.583	14.019	.21711	30.071	.28233	.24122
Stddev	.00016	.00013	.0048	.000	.104	.00124	.023	.00081	.00039
%RSD	.07698	.06605	.04807	.00234	.74165	.57068	.07510	.28522	.16263
#1	.20443	.20391	9.9580	12.583	14.092	.21799	30.055	.28290	.24150
#2	.20421	.20372	9.9648	12.583	13.945	.21624	30.087	.28176	.24095
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	52.916	.20174	.20006	F 27.68	.20639	.19959	17.693	.20763	.83930
Stddev	.674	.00124	.00011	.01	.00106	.00067	.056	.00050	.00224
%RSD	1.2730	.61534	.05253	.0485	.51502	.33323	.31910	.23936	.26734
#1	53.392	.20262	.20013	27.69	.20714	.20006	17.733	.20798	.84088
#2	52.439	.20086	.19999	27.67	.20564	.19912	17.653	.20728	.83771
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	.20585	.20504	.21265	.21038
Stddev	.00079	.00039	.00022	.00100
%RSD	.38519	.18900	.10315	.47347
#1	.20641	.20477	.21249	.20967
#2	.20529	.20532	.21280	.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	3619.1	6794.8	60001.	8986.5
Stddev	3.7	9.1	105.	22.4
%RSD	.10325	.13440	.17507	.24907
#1	3616.5	6788.3	60075.	8970.6
#2	3621.8	6801.3	59927.	9002.3

Sample Name: 480-30598-A-3-C MSD Acquired: 12/21/2012 17:27:06 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	.05434	10.204	.20511	.48584	.26098	.21356	56.368	.20531	.20411
Stddev	.00019	.318	.00026	.00264	.00051	.00760	2.056	.00090	.00081
%RSD	.34609	3.1138	.12883	.54398	.19428	3.5598	3.6478	.43712	.39849
#1	.05421	10.429	.20492	.48770	.26062	.21893	57.822	.20595	.20469
#2	.05447	9.9796	.20530	.48397	.26133	.20818	54.914	.20468	.20354
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	.20634	.20627	10.092	12.787	14.154	.22066	30.260	.28568	.24257
Stddev	.00059	.00022	.346	.449	.230	.00878	.014	.00022	.00132
%RSD	.28830	.10580	3.4280	3.5130	1.6247	3.9799	.04774	.07680	.54223
#1	.20677	.20611	10.337	13.105	14.317	.22687	30.271	.28584	.24350
#2	.20592	.20642	9.8477	12.470	13.992	.21445	30.250	.28553	.24164
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	53.775	.20144	.19934	F 27.50	.20737	.19605	18.176	.20890	.84439
Stddev	1.778	.00067	.00229	.14	.00193	.00051	.659	.00048	.03077
%RSD	3.3063	.33327	1.1489	.5140	.93064	.26232	3.6279	.23015	3.6439
#1	55.032	.20191	.20096	27.60	.20873	.19642	18.642	.20924	.86614
#2	52.518	.20096	.19772	27.40	.20600	.19569	17.710	.20856	.82263
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	.20793	.20596	.21674	.21551
Stddev	.00150	.00275	.00139	.00052
%RSD	.72305	1.3329	.64277	.24351
#1	.20686	.20790	.21576	.21514
#2	.20899	.20402	.21773	.21588
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	3611.1	6784.5	59486.	8893.5
Stddev	4.6	11.5	149.	226.8
%RSD	.12825	.16946	.25130	2.5499
#1	3607.8	6776.3	59592.	8733.2
#2	3614.3	6792.6	59380.	9053.9

Sample Name: 480-30598-A-4-A Acquired: 12/21/2012 17:29:18 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	.03385	.00011	.11915	.03104	-.00001	46.061	.00010	-.00002
Stddev	.00033	.00672	.00007	.00040	.00018	.00000	.023	.00000	.00001
%RSD	64.541	19.865	59.022	.33343	.56756	50.313	.05060	.68055	44.479
#1	.00028	.02909	.00007	.11943	.03117	-.00001	46.045	.00010	-.00003
#2	.00075	.03860	.00016	.11887	.03092	-.00001	46.078	.00010	-.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	.00118	.00010	.79325	5.4725	5.4984	.00491	22.374	.08588	.01152
Stddev	.00003	.00025	.00064	.0325	.0418	.00017	.153	.00108	.00003
%RSD	2.4668	247.63	.08108	.59417	.76072	3.4238	.68548	1.2577	.23699
#1	.00120	.00028	.79280	5.4495	5.5280	.00503	22.482	.08664	.01154
#2	.00116	-.00008	.79371	5.4955	5.4688	.00479	22.265	.08512	.01151
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	17.112	.00080	-.00080	F 26.48	.00037	-.00057	6.7137	.00008	.37869
Stddev	.081	.00001	.00136	.00	.00001	.00162	.0113	.00020	.00006
%RSD	.47481	1.0700	169.28	.0016	2.4299	286.64	.16890	252.67	.01702
#1	17.169	.00080	-.00176	26.48	.00037	.00058	6.7217	.00022	.37864
#2	17.054	.00079	.00016	26.48	.00038	-.00171	6.7057	-.00006	.37873
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	.00151	.00016	.00042	.00271
Stddev	.00010	.00316	.00013	.00026
%RSD	6.5068	1955.6	30.257	9.5269
#1	.00158	.00240	.00051	.00253
#2	.00144	-.00208	.00033	.00289
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	3759.3	6866.0	60199.	9047.8
Stddev	5.2	5.6	308.	42.1
%RSD	.13920	.08190	.51189	.46482
#1	3755.6	6862.1	59981.	9018.1
#2	3763.0	6870.0	60416.	9077.6

Sample Name: 480-30598-A-5-A Acquired: 12/21/2012 17:31:32 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**	**.29463**	**-.00035**	**.00053**	**.00367**	**.00005**	**4.9934**	**-.00012**	**.00014**
Stddev	.00016	.00828	.00286	.00042	.00005	.00006	.0120	.00003	.00008
%RSD	270.27	2.8118	823.97	80.500	1.2847	131.33	.23927	26.057	55.293
#1	-.00018	.28878	-.00237	.00023	.00364	.00009	5.0018	-.00010	.00009
#2	.00005	.30049	.00168	.00083	.00371	.00000	4.9849	-.00014	.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	**.00152**	**-.00007**	**.38592**	**.11706**	**.10643**	**.00153**	**1.8146**	**.02046**	**-.00007**
Stddev	.00018	.00017	.00862	.02092	.00235	.00022	.0001	.00018	.00004
%RSD	12.105	255.10	2.2346	17.873	2.2085	14.215	.00585	.88205	58.868
#1	.00139	-.00019	.37982	.13185	.10477	.00168	1.8147	.02033	-.00004
#2	.00165	.00005	.39202	.10226	.10809	.00138	1.8145	.02058	-.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	**3.5695**	**.00058**	**-.00076**	**.3130**	**.00107**	**.00067**	**.59465**	**.00067**	**.00451**
Stddev	.0389	.00058	.00283	.0074	.00211	.00140	.00371	.00028	.00005
%RSD	1.0912	98.503	373.42	2.363	195.87	208.33	.62375	41.183	1.1357
#1	3.5420	.00018	.00124	.3183	-.00041	.00167	.59727	.00047	.00455
#2	3.5971	.00099	-.00276	.3078	.00256	-.00032	.59203	.00086	.00448
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	**.01071**	**-.00040**	**.00097**	**.00188**
Stddev	.00015	.00062	.00022	.00003
%RSD	1.3784	157.00	22.526	1.4312
#1	.01061	-.00084	.00081	.00190
#2	.01082	.00004	.00112	.00186
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	**3988.9**	**7047.4**	**62081.**	**9201.9**
Stddev	3.2	11.9	33.	67.1
%RSD	.08032	.16949	.05353	.72956
#1	3991.1	7055.8	62058.	9249.3
#2	3986.6	7038.9	62105.	9154.4

Sample Name: CCV Acquired: 12/21/2012 17:33:50 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	.49568	24.242	.48856	.48043	.50135	.49910	24.561	.49026	.47880	.49394	.48703	24.077	25.105
Stddev	.00254	.087	.00082	.00115	.00256	.00250	.115	.00128	.00044	.00175	.00123	.109	.087
%RSD	.51218	.36062	.16769	.24012	.51094	.50123	.46892	.26151	.09125	.35355	.25194	.45472	.34778
#1	.49389	24.180	.48798	.48125	.49954	.49733	24.480	.49116	.47849	.49271	.48617	24.000	25.044
#2	.49748	24.304	.48914	.47961	.50316	.50087	24.643	.48935	.47911	.49518	.48790	24.155	25.167
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	24.624	.50615	23.871	.49344	.50194	25.898	.48624	.48046	24.48	.49595	.47841	25.355	.51864
Stddev	.020	.00463	.075	.00108	.00047	.153	.00053	.00160	.06	.00143	.00438	.119	.00081
%RSD	.08258	.91492	.31225	.21841	.09392	.59051	.10801	.33365	.2652	.28865	.91571	.46888	.15644
#1	24.638	.50288	23.819	.49267	.50227	25.790	.48661	.48159	24.52	.49696	.47532	25.271	.51922
#2	24.610	.50942	23.924	.49420	.50160	26.006	.48586	.47933	24.43	.49494	.48151	25.439	.51807
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	.49897	.50669	.49784	.49666	.50012
Stddev	.00345	.00133	.00010	.00219	.00105
%RSD	.69165	.26224	.01909	.44070	.21067
#1	.49653	.50575	.49790	.49511	.49937
#2	.50141	.50763	.49777	.49821	.50086
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	3679.5	6866.3	60856.	8820.6
Stddev	7.2	17.1	134.	37.4
%RSD	.19526	.24909	.22020	.42413
#1	3674.4	6854.2	60951.	8794.1
#2	3684.6	6878.4	60761.	8847.0

Sample Name: CCB Acquired: 12/21/2012 17:36:05 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00053	.00670	-.00044	-.00022	.00001	.00012	.00045	-.00008	.00003	.00027	-.00032	.00540	-.03189
Stddev	.00053	.00086	.00101	.00017	.00001	.00008	.00131	.00024	.00000	.00031	.00021	.00041	.00565
%RSD	99.526	12.795	230.72	75.777	48.932	67.965	289.00	314.92	6.5088	112.03	63.659	7.6360	17.724
#1	.00016	.00609	-.00116	-.00034	.00001	.00018	-.00047	-.00025	.00003	.00049	-.00018	.00511	-.03589
#2	.00091	.00731	.00028	-.00010	.00001	.00006	.00138	.00009	.00003	.00006	-.00047	.00569	-.02789
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	.00266	.00924	-.00004	.00026	.02596	.00028	.00037	F .0060	-.00105	.00043	.00760	-.00018
Stddev	.00037	.00017	.00693	.00008	.00032	.00643	.00048	.00128	.0028	.00024	.00112	.02287	.00005
%RSD	9.8302	6.2625	74.978	216.32	123.12	24.774	171.36	340.70	46.42	22.620	260.44	300.89	27.184
#1	.00407	.00278	.01414	.00002	.00003	.03051	.00062	.00128	.0080	-.00088	.00122	.02378	-.00015
#2	.00354	.00254	.00434	-.00009	.00048	.02141	-.00006	-.00053	.0040	-.00121	-.00036	-.00857	-.00022
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	.00018	.00023	-.00036	.00032
Stddev	.00009	.00033	.00164	.00003	.00018
%RSD	222.99	178.37	702.74	7.2290	57.310
#1	.00010	.00041	.00139	-.00034	.00019
#2	-.00002	-.00005	-.00093	-.00038	.00045
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	4031.5	7058.4	62123.	9037.1
Stddev	18.3	21.9	121.	30.1
%RSD	.45321	.31064	.19432	.33315
#1	4018.6	7042.9	62037.	9058.4
#2	4044.4	7073.9	62208.	9015.8

Sample Name: 480-30536-F-1-B Acquired: 12/21/2012 17:38:26 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	.00037	.01812	-.00015	.03243	.04483	-.00006	104.87	.00014	-.00001
Stddev	.00013	.00471	.00201	.00046	.00011	.00001	.70	.00016	.00003
%RSD	35.440	25.963	1345.4	1.4240	.24470	19.916	.66432	112.18	331.82
#1	.00047	.02145	-.00157	.03276	.04475	-.00005	105.36	.00003	-.00003
#2	.00028	.01480	.00127	.03211	.04491	-.00006	104.38	.00025	.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	.00157	.00323	.00918	2.6933	2.8752	.00470	18.254	.04181	.00414
Stddev	.00011	.00044	.00398	.0075	.0077	.00043	.035	.00019	.00007
%RSD	7.3002	13.550	43.387	.27975	.26837	9.0954	.19396	.46159	1.7874
#1	.00165	.00354	.00636	2.6880	2.8806	.00501	18.228	.04167	.00419
#2	.00149	.00292	.01200	2.6986	2.8697	.00440	18.279	.04194	.00409
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	6.4277	.00149	.00020	F 73.71	-.00009	.00264	.87639	-.00003	.15665
Stddev	.0456	.00064	.00133	.02	.00065	.00657	.00906	.00006	.00072
%RSD	.70938	42.603	670.03	.0311	746.36	249.37	1.0332	169.42	.45941
#1	6.4599	.00194	-.00074	73.72	.00037	.00728	.88280	-.00008	.15716
#2	6.3954	.00104	.00114	73.69	-.00055	-.00201	.86999	.00001	.15614
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	.00104	-.00012	.00018	.00181
Stddev	.00011	.00098	.00009	.00018
%RSD	10.478	844.84	51.120	9.8606
#1	.00112	-.00081	.00024	.00168
#2	.00096	.00057	.00011	.00193
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	3738.7	6815.7	60811.	8997.0
Stddev	3.3	16.8	180.	26.5
%RSD	.08787	.24683	.29589	.29423
#1	3736.4	6803.8	60938.	8978.2
#2	3741.0	6827.6	60684.	9015.7

Sample Name: 480-30536-F-2-B Acquired: 12/21/2012 17:40:40 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	.00067	.02948	.00051	.71209	.03071	-.00002	124.13	.00054	.00003
Stddev	.00059	.00059	.00018	.00038	.00007	.00003	.72	.00006	.00011
%RSD	87.917	1.9967	36.160	.05281	.21890	162.88	.57814	11.572	319.03
#1	.00025	.02907	.00064	.71236	.03067	-.00004	124.63	.00058	.00011
#2	.00109	.02990	.00038	.71183	.03076	.00000	123.62	.00050	-.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	.01549	.00660	.02572	2.5024	2.8437	.00433	23.698	.02307	.00171
Stddev	.00018	.00027	.00135	.0128	.0046	.00074	.050	.00012	.00045
%RSD	1.1550	4.1659	5.2457	.51219	.16195	17.000	.21094	.50941	26.244
#1	.01537	.00640	.02477	2.4933	2.8404	.00485	23.733	.02315	.00203
#2	.01562	.00679	.02668	2.5114	2.8470	.00381	23.662	.02299	.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	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	21.051	.00248	.00000	F 78.04	.00143	-.00105	1.8578	.00123	.16768
Stddev	.109	.00005	.00103	.15	.00087	.00015	.0038	.00010	.00130
%RSD	.51753	1.9357	46057.	.1912	60.387	14.488	.20556	8.2549	.77437
#1	21.129	.00244	.00073	78.14	.00205	-.00095	1.8605	.00115	.16860
#2	20.974	.00251	-.00073	77.93	.00082	-.00116	1.8551	.00130	.16676
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	.00107	.00090	.00069	.00321
Stddev	.00012	.00108	.00005	.00012
%RSD	11.635	120.58	7.6500	3.6191
#1	.00116	.00013	.00065	.00313
#2	.00098	.00166	.00072	.00330
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	3662.0	6769.4	59949.	9030.1
Stddev	2.2	1.0	160.	24.6
%RSD	.06142	.01532	.26698	.27259
#1	3663.6	6768.7	59836.	9012.7
#2	3660.4	6770.2	60062.	9047.5

Sample Name: 480-30536-F-3-B Acquired: 12/21/2012 17:42:52 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	**-.00017**	**.01436**	**-.00056**	**.01255**	**.03247**	**.00002**	**82.557**	**.00030**	**.00008**
Stddev	.00085	.00824	.00251	.00050	.00007	.00011	3.633	.00006	.00011
%RSD	496.91	57.382	450.20	4.0029	.21985	440.65	4.4007	20.884	138.33
#1	-.00077	.02019	.00122	.01290	.03252	-.00005	85.126	.00026	.00000
#2	.00043	.00854	-.00233	.01219	.03242	.00010	79.988	.00035	.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	**.00100**	**.00279**	**.02521**	**2.5579**	**2.5888**	**.00497**	**15.813**	**.08567**	**.00345**
Stddev	.00008	.00028	.00061	.1185	.0759	.00150	.028	.00038	.00000
%RSD	7.5829	10.178	2.4090	4.6317	2.9305	30.252	.17726	.44211	.06876
#1	.00106	.00259	.02478	2.6417	2.6424	.00604	15.833	.08593	.00345
#2	.00095	.00299	.02564	2.4741	2.5351	.00391	15.793	.08540	.00345
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	**4.0044**	**.00167**	**-.00117**	F **49.93**	**-.00069**	**.00256**	**1.2759**	**-.00019**	**.11726**
Stddev	.1972	.00009	.00045	.34	.00117	.00034	.0351	.00017	.00501
%RSD	4.9243	5.5055	37.968	.6820	170.01	13.180	2.7523	90.571	4.2733
#1	4.1439	.00174	-.00086	50.17	-.00151	.00232	1.3007	-.00007	.12080
#2	3.8650	.00161	-.00149	49.69	.00014	.00280	1.2511	-.00031	.11372
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	**.00062**	**.00197**	**.00039**	**.00781**
Stddev	.00010	.00053	.00043	.00054
%RSD	15.639	26.844	112.78	6.9417
#1	.00055	.00234	.00069	.00743
#2	.00068	.00159	.00008	.00819
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	**3794.5**	**6859.6**	**61231.**	**8814.5**
Stddev	.6	5.8	14.	294.4
%RSD	.01648	.08473	.02221	3.3398
#1	3794.1	6855.4	61241.	8606.3
#2	3794.9	6863.7	61222.	9022.6

Sample Name: 480-30495-E-1-D Acquired: 12/21/2012 17:45:05 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	.00000	.28185	.00093	.01078	.04984	.00039	5.0262	-.00002	.00000
Stddev	.00027	.06151	.00009	.00026	.00021	.00008	.1378	.00004	.00012
%RSD	71578.	21.825	9.3130	2.3940	.41921	19.537	2.7420	183.26	15391.
#1	.00019	.23835	.00087	.01096	.04969	.00033	4.9288	.00001	-.00008
#2	-.00019	.32535	.00099	.01059	.04999	.00044	5.1237	-.00005	.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	.00061	.00055	.00869	1.2758	1.2008	.00211	1.7711	.14646	-.00010
Stddev	.00050	.00010	.00152	.0728	.0287	.00190	.0103	.00042	.00023
%RSD	81.884	18.528	17.538	5.7077	2.3932	90.097	.57967	.28993	233.91
#1	.00096	.00063	.00977	1.2243	1.1804	.00076	1.7638	.14616	-.00026
#2	.00025	.00048	.00761	1.3273	1.2211	.00345	1.7783	.14676	.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	13.564	.00039	.00014	4.240	.00008	-.00211	4.1870	.00020	.03359
Stddev	.389	.00046	.00042	.012	.00206	.00294	.0700	.00015	.00085
%RSD	2.8642	116.10	302.94	.2889	2711.0	139.32	1.6728	72.657	2.5276
#1	13.289	.00071	-.00016	4.232	.00153	-.00003	4.1375	.00010	.03299
#2	13.839	.00007	.00044	4.249	-.00138	-.00418	4.2365	.00031	.03419
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	.00017	.00039	-.00023	.00412
Stddev	.00024	.00077	.00006	.00017
%RSD	137.79	196.18	24.089	4.0738
#1	.00034	-.00015	-.00019	.00424
#2	.00000	.00094	-.00027	.00401
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	3980.7	7087.4	62897.	8997.6
Stddev	7.4	8.3	172.	204.2
%RSD	.18480	.11760	.27309	2.2696
#1	3985.9	7093.3	63018.	9142.0
#2	3975.5	7081.5	62776.	8853.2

Sample Name: 480-30495-E-2-B Acquired: 12/21/2012 17:47:18 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	.00115	.11423	.00005	.00952	.02692	.00023	2.6740	-.00002	.00090
Stddev	.00029	.01760	.00060	.00026	.00006	.00003	.0037	.00004	.00007
%RSD	24.945	15.409	1270.8	2.7385	.21871	12.751	.13975	172.71	7.5852
#1	.00135	.10178	.00047	.00970	.02696	.00025	2.6766	.00001	.00085
#2	.00095	.12667	-.00038	.00933	.02688	.00021	2.6714	-.00005	.00095
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	.00022	.16522	.79873	.78532	.00423	.86611	.11173	.00006
Stddev	.00049	.00011	.00207	.01874	.00211	.00014	.00028	.00012	.00032
%RSD	68.799	51.246	1.2520	2.3458	.26932	3.2768	.03265	.11114	507.02
#1	.00037	.00030	.16668	.81198	.78681	.00413	.86631	.11182	.00029
#2	.00106	.00014	.16375	.78548	.78382	.00433	.86591	.11164	-.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	10.883	.00084	-.00054	1.268	.00068	-.00137	3.1317	.00017	.01708
Stddev	.033	.00019	.00117	.000	.00062	.00205	.0172	.00043	.00002
%RSD	.30229	22.820	216.20	.0135	91.970	149.76	.54935	249.58	.12758
#1	10.906	.00098	-.00137	1.268	.00112	.00008	3.1439	-.00013	.01709
#2	10.860	.00071	.00029	1.268	.00024	-.00282	3.1196	.00048	.01706
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	.00017	.00091	.00019	.00639
Stddev	.00004	.00081	.00021	.00018
%RSD	24.660	89.188	107.32	2.7426
#1	.00020	.00034	.00005	.00626
#2	.00014	.00149	.00034	.00651
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	3997.7	7059.4	62551.	9079.5
Stddev	15.9	17.8	98.	43.9
%RSD	.39847	.25238	.15702	.48369
#1	4009.0	7072.0	62482.	9048.4
#2	3986.5	7046.8	62621.	9110.5

Sample Name: 480-30495-E-3-B Acquired: 12/21/2012 17:49:32 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**	**.10455**	**.03522**	**.03658**	**.02622**	**-.00003**	**14.396**	**-.00028**	**.00938**
Stddev	.00025	.00124	.00028	.00017	.00009	.00004	.078	.00001	.00018
%RSD	142.77	1.1823	.80714	.46022	.34808	117.05	.54501	2.6906	1.8823
#1	.00000	.10368	.03502	.03646	.02629	-.00001	14.452	-.00028	.00951
#2	-.00035	.10542	.03542	.03669	.02616	-.00006	14.341	-.00029	.00926
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	**.00060**	**.00031**	**29.732**	**3.0516**	**2.9044**	**.00300**	**4.9925**	**1.2950**	**.00696**
Stddev	.00042	.00024	.067	.0030	.0286	.00165	.0071	.0027	.00007
%RSD	70.539	77.288	.22426	.09943	.98411	54.956	.14219	.20674	.96443
#1	.00090	.00049	29.780	3.0537	2.9247	.00183	4.9875	1.2969	.00691
#2	.00030	.00014	29.685	3.0494	2.8842	.00417	4.9975	1.2931	.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	**11.800**	**.00791**	**-.00052**	**.8506**	**-.00197**	**.00356**	**6.0883**	**.00050**	**.07587**
Stddev	.007	.00072	.00008	.0050	.00163	.00124	.0090	.00022	.00014
%RSD	.06220	9.0841	16.260	.5888	82.939	34.873	.14733	43.857	.18849
#1	11.795	.00842	-.00046	.8541	-.00082	.00443	6.0947	.00066	.07597
#2	11.805	.00741	-.00058	.8470	-.00313	.00268	6.0820	.00035	.07577
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	**.00728**	**.00003**	**-.00018**	**.00965**
Stddev	.00004	.00001	.00035	.00022
%RSD	.58676	36.244	192.18	2.2936
#1	.00731	.00004	.00007	.00980
#2	.00725	.00002	-.00043	.00949
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	**3907.2**	**7032.3**	**62109.**	**9108.8**
Stddev	3.7	11.9	52.	17.3
%RSD	.09538	.16893	.08421	.18989
#1	3909.8	7040.7	62146.	9096.5
#2	3904.5	7023.9	62072.	9121.0

Sample Name: 480-30495-E-4-B Acquired: 12/21/2012 17:51:47 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	.00093	.03908	.00435	.06928	.02935	.00015	15.942	-.00021	.00224
Stddev	.00084	.01128	.00069	.00086	.00010	.00010	.003	.00009	.00000
%RSD	91.097	28.874	15.825	1.2354	.34214	67.889	.02050	41.753	.14551
#1	.00152	.04706	.00483	.06988	.02942	.00008	15.944	-.00015	.00224
#2	.00033	.03110	.00386	.06867	.02928	.00022	15.940	-.00028	.00225
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	.00070	.00078	7.3946	3.7953	3.5845	.00172	3.4215	.81245	.00121
Stddev	.00029	.00022	.0141	.0319	.0103	.00031	.0327	.00480	.00026
%RSD	41.907	27.832	.19117	.84015	.28600	17.913	.95475	.59075	21.656
#1	.00091	.00062	7.3846	3.7728	3.5918	.00150	3.4446	.81584	.00139
#2	.00049	.00093	7.4046	3.8179	3.5773	.00194	3.3984	.80905	.00102
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	11.897	.00170	.00093	1.927	-.00018	.00028	4.0639	.00024	.08432
Stddev	.002	.00013	.00132	.002	.00046	.00060	.0052	.00022	.00014
%RSD	.01962	7.8794	141.53	.1228	258.76	214.44	.12696	89.017	.16359
#1	11.895	.00161	.00000	1.928	-.00051	.00071	4.0675	.00039	.08422
#2	11.898	.00180	.00187	1.925	.00015	-.00015	4.0602	.00009	.08441
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	.00141	.00052	.00022	.00359
Stddev	.00032	.00352	.00019	.00006
%RSD	22.583	671.40	87.030	1.5993
#1	.00118	-.00196	.00008	.00363
#2	.00163	.00301	.00036	.00355
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	3925.2	7005.3	62303.	9055.5
Stddev	.3	3.3	18.	5.5
%RSD	.00726	.04779	.02911	.06067
#1	3925.0	7002.9	62290.	9051.6
#2	3925.4	7007.6	62316.	9059.4

Sample Name: 480-30604-A-1-A Acquired: 12/21/2012 17:54:02 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	**.00033**	**.08116**	**.00056**	**1.4665**	**.04383**	**.00000**	**80.143**	**.00043**	**.00147**
Stddev	.00001	.00934	.00122	.0258	.00000	.00001	.079	.00023	.00020
%RSD	3.1660	11.508	218.42	1.7593	.00418	2038.3	.09884	52.302	13.762
#1	.00033	.07456	-.00030	1.4482	.04383	-.00001	80.200	.00027	.00161
#2	.00032	.08777	.00142	1.4847	.04383	.00001	80.087	.00059	.00133
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	**.00114**	**.00098**	**.35342**	**6.9436**	**9.6494**	**.05692**	**47.684**	**.05451**	**.04147**
Stddev	.00007	.00044	.00311	.0241	.0123	.00108	.090	.00040	.00059
%RSD	6.1515	44.865	.87949	.34748	.12691	1.9037	.18905	.73042	1.4149
#1	.00109	.00130	.35122	6.9265	9.6407	.05616	47.620	.05423	.04106
#2	.00119	.00067	.35561	6.9606	9.6580	.05769	47.747	.05479	.04189
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	**153.71**	**.00349**	**-.00136**	F **35.96**	**-.00049**	**-.00040**	**5.8043**	**.00021**	F **16.301**
Stddev	.09	.00017	.00031	.56	.00010	.00057	.0156	.00045	.231
%RSD	.05781	4.9920	22.695	1.544	19.858	140.86	.26870	214.34	1.4189
#1	153.65	.00336	-.00158	35.57	-.00056	-.00080	5.7933	-.00011	16.137
#2	153.77	.00361	-.00115	36.35	-.00043	.00000	5.8154	.00052	16.464
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				10.00					10.000
Low Limit				-.0100					-.00500

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	**.00245**	**-.00013**	**.00033**	**.00148**
Stddev	.00025	.00281	.00102	.00023
%RSD	10.288	2115.2	307.45	15.814
#1	.00227	-.00212	-.00039	.00165
#2	.00263	.00185	.00105	.00132
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	**3439.7**	**6508.0**	**58095.**	**8877.2**
Stddev	38.4	85.7	67.	72.6
%RSD	1.1160	1.3171	.11594	.81805
#1	3466.9	6568.6	58048.	8928.6
#2	3412.6	6447.4	58143.	8825.9

Sample Name: 480-30604-A-3-A Acquired: 12/21/2012 17:56:25 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	**.00035**	**.00467**	**-.00219**	**2.0971**	**.03889**	**-.00009**	**118.70**	**.00040**	**.00241**
Stddev	.00058	.01160	.00036	.0074	.00023	.00005	.80	.00001	.00031
%RSD	165.63	248.17	16.630	.35358	.59150	60.867	.67819	1.7255	12.855
#1	.00076	-.00353	-.00193	2.1024	.03873	-.00013	119.27	.00040	.00263
#2	-.00006	.01287	-.00245	2.0919	.03905	-.00005	118.13	.00041	.00219
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	**.00115**	**.00116**	**.32349**	**12.072**	**18.900**	**.16080**	**72.230**	**.07848**	**.01846**
Stddev	.00041	.00009	.00160	.045	.153	.00008	.281	.00020	.00005
%RSD	35.840	8.1659	.49311	.37213	.80900	.04895	.38906	.25681	.24485
#1	.00086	.00123	.32462	12.104	19.008	.16075	72.031	.07833	.01849
#2	.00144	.00110	.32236	12.041	18.792	.16086	72.429	.07862	.01843
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	**349.69**	**.00095**	**-.00082**	F **43.56**	**.00118**	**.00270**	**4.3351**	**.00033**	F **23.518**
Stddev	1.53	.00034	.00081	.21	.00297	.00462	.0291	.00047	.134
%RSD	.43731	35.978	98.984	.4712	251.48	171.17	.67094	143.67	.56796
#1	350.77	.00071	-.00140	43.70	.00329	.00597	4.3557	-.00001	23.613
#2	348.61	.00119	-.00025	43.41	-.00092	-.00057	4.3146	.00066	23.424
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				10.00					10.000
Low Limit				-.0100					-.00500

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**	**.00110**	**.00029**	**.00163**
Stddev	.00017	.00259	.00044	.00011
%RSD	16.351	236.30	152.69	7.0046
#1	.00114	.00293	.00059	.00155
#2	.00090	-.00074	-.00002	.00171
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	**3298.4**	**6405.3**	**55997.**	**8900.1**
Stddev	.2	1.8	304.	33.3
%RSD	.00487	.02758	.54228	.37370
#1	3298.5	6406.6	56211.	8876.6
#2	3298.3	6404.1	55782.	8923.6

Sample Name: 480-30587-C-1-A Acquired: 12/21/2012 17:58:54 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	**-.00054**	**-.01189**	**.01519**	**.04163**	**.04401**	**-.00004**	**268.10**	**.00034**	**.00018**
Stddev	.00036	.00148	.00330	.00018	.00029	.00005	4.93	.00002	.00003
%RSD	66.326	12.489	21.732	.42546	.64870	117.89	1.8380	5.5918	18.594
#1	-.00079	-.01294	.01753	.04176	.04381	-.00008	271.59	.00035	.00021
#2	-.00029	-.01084	.01286	.04151	.04421	-.00001	264.62	.00033	.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	**.00165**	**.00053**	**3.3493**	**3.9346**	**5.6169**	**.03876**	**107.29**	**.16578**	**.00200**
Stddev	.00005	.00039	.1068	.1713	.1359	.00218	.65	.00127	.00033
%RSD	2.8735	72.768	3.1885	4.3523	2.4199	5.6360	.60992	.76400	16.325
#1	.00168	.00026	3.4248	4.0557	5.7130	.04030	106.83	.16488	.00177
#2	.00161	.00080	3.2737	3.8135	5.5208	.03721	107.75	.16667	.00223
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	**106.98**	**.00119**	**-.00095**	F **82.27**	**.00038**	**-.00002**	**11.186**	**-.00029**	**.35389**
Stddev	3.63	.00064	.00096	.39	.00002	.00019	.392	.00005	.01263
%RSD	3.3912	53.815	101.53	.4762	4.7614	1164.9	3.5032	18.077	3.5694
#1	109.55	.00074	-.00163	82.54	.00039	-.00015	11.463	-.00025	.36282
#2	104.42	.00165	-.00027	81.99	.00037	.00012	10.909	-.00032	.34496
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	**.00190**	**-.00074**	**.00039**	**.00148**
Stddev	.00025	.00251	.00015	.00040
%RSD	12.944	340.34	37.320	27.014
#1	.00207	-.00252	.00029	.00120
#2	.00172	.00104	.00050	.00176
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	**3342.2**	**6406.6**	**57095.**	**8550.5**
Stddev	10.2	9.9	184.	221.8
%RSD	.30625	.15446	.32233	2.5945
#1	3335.0	6399.6	57225.	8393.6
#2	3349.4	6413.6	56965.	8707.4

Sample Name: CCV Acquired: 12/21/2012 18:01:15 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	.50136	24.248	.48779	.48522	.50112	.49744	24.662	.49272	.48402	.49794	.49260	23.951	24.984
Stddev	.00511	.033	.00007	.00036	.00023	.00056	.028	.00119	.00147	.00238	.00005	.068	.047
%RSD	1.0183	.13419	.01376	.07348	.04560	.11240	.11546	.24223	.30354	.47870	.01033	.28418	.18680
#1	.50497	24.225	.48774	.48547	.50096	.49784	24.641	.49356	.48506	.49962	.49256	23.902	24.951
#2	.49775	24.271	.48784	.48496	.50128	.49705	24.682	.49187	.48298	.49625	.49264	23.999	25.017
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	25.001	.50406	24.160	.49886	.50163	25.657	.48748	.48695	24.55	.49784	.48399	25.100	.51891
Stddev	.091	.00045	.098	.00060	.00119	.050	.00075	.00329	.04	.00155	.00550	.046	.00089
%RSD	.36215	.08965	.40480	.12037	.23759	.19661	.15393	.67581	.1561	.31180	1.1363	.18195	.17126
#1	25.065	.50438	24.229	.49928	.50248	25.692	.48801	.48928	24.58	.49674	.48010	25.132	.51954
#2	24.937	.50374	24.090	.49843	.50079	25.621	.48695	.48462	24.52	.49894	.48788	25.067	.51828
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	.49854	.50655	.50015	.49918	.50442
Stddev	.00004	.00085	.00174	.00084	.00196
%RSD	.00795	.16785	.34831	.16906	.38874
#1	.49852	.50595	.49892	.49978	.50580
#2	.49857	.50715	.50139	.49858	.50303
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	3678.4	6852.1	60519.	8831.3
Stddev	7.9	9.4	87.	47.6
%RSD	.21505	.13773	.14443	.53951
#1	3672.8	6845.5	60457.	8865.0
#2	3684.0	6858.8	60581.	8797.6

Sample Name: CCB Acquired: 12/21/2012 18:03:30 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	.00044	-.00032	-.00310	.00086	-.00001	.00003	.00196	-.00010	-.00009	.00055	-.00006	.00417	-.03325
Stddev	.00038	.00929	.00044	.00064	.00000	.00000	.00021	.00010	.00009	.00019	.00014	.00192	.00550
%RSD	85.708	2888.6	14.284	74.593	22.693	13.491	10.706	103.52	95.967	35.312	249.04	46.081	16.549
#1	.00071	.00625	-.00279	.00041	-.00001	.00003	.00211	-.00017	-.00016	.00069	-.00015	.00553	-.03714
#2	.00017	-.00689	-.00341	.00132	-.00002	.00003	.00181	-.00003	-.00003	.00041	.00004	.00281	-.02936
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	.00268	.00175	.00944	-.00008	.00022	.04379	-.00017	.00034	F .0090	.00205	-.00158	.00559	-.00001
Stddev	.00044	.00138	.00190	.00000	.00008	.00742	.00028	.00059	.0015	.00118	.00107	.00512	.00007
%RSD	16.499	78.800	20.101	.53847	34.775	16.943	162.68	174.14	16.83	57.404	67.666	91.467	568.08
#1	.00237	.00077	.01078	-.00008	.00027	.04904	-.00036	-.00008	.0100	.00122	-.00083	.00198	.00004
#2	.00299	.00272	.00810	-.00008	.00016	.03855	.00003	.00075	.0079	.00288	-.00234	.00921	-.00006
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	.00006	-.00008	-.00092	.00036	.00043
Stddev	.00005	.00011	.00153	.00023	.00074
%RSD	76.042	137.19	166.35	63.856	172.82
#1	.00010	-.00016	.00016	.00020	-.00010
#2	.00003	.00000	-.00200	.00052	.00095
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	4020.4	7016.9	62259.	8918.6
Stddev	14.9	29.3	20.	90.4
%RSD	.37017	.41822	.03207	1.0141
#1	4009.9	6996.1	62273.	8982.6
#2	4030.9	7037.6	62245.	8854.7

Sample Name: 480-30587-C-2-A Acquired: 12/21/2012 18:05:49 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	-.00018	-.00503	.03095	.17422	.14130	-.00003	86.710	.00023	.00026
Stddev	.00019	.00989	.00057	.00030	.00001	.00003	.013	.00002	.00004
%RSD	102.65	196.77	1.8449	.17504	.01055	82.664	.01546	7.7868	15.691
#1	-.00031	.00197	.03055	.17443	.14131	-.00005	86.720	.00024	.00023
#2	-.00005	-.01202	.03135	.17400	.14129	-.00001	86.701	.00022	.00029
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	.00124	.00072	.46732	2.3759	2.9815	.02372	37.615	.06394	.00400
Stddev	.00018	.00014	.00350	.0165	.0081	.00014	.058	.00020	.00013
%RSD	14.190	19.762	.74885	.69380	.27320	.59521	.15290	.31031	3.2111
#1	.00137	.00082	.46979	2.3643	2.9873	.02362	37.574	.06408	.00391
#2	.00112	.00062	.46484	2.3876	2.9758	.02382	37.656	.06380	.00409
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	51.178	.00156	-.00064	F 21.91	-.00115	.00202	8.5670	.00034	.79066
Stddev	.312	.00034	.00147	.02	.00279	.00073	.0517	.00029	.00000
%RSD	.60944	22.170	227.62	.0900	241.94	36.036	.60393	85.164	.00039
#1	51.398	.00180	.00039	21.93	-.00312	.00150	8.5304	.00014	.79066
#2	50.957	.00131	-.00168	21.90	.00082	.00253	8.6036	.00054	.79066
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	.00083	-.00066	.00074	.00147
Stddev	.00011	.00136	.00064	.00027
%RSD	12.892	204.40	86.145	18.285
#1	.00091	.00030	.00029	.00166
#2	.00075	-.00162	.00119	.00128
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	3626.1	6752.7	59334.	9048.6
Stddev	10.6	16.6	38.	7.4
%RSD	.29313	.24597	.06483	.08213
#1	3618.6	6740.9	59307.	9043.3
#2	3633.6	6764.4	59361.	9053.8

Sample Name: 480-30587-C-3-A Acquired: 12/21/2012 18:08:02 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	.00063	.02435	.00112	.86219	.10964	-.00003	34.770	.00008	.00025
Stddev	.00013	.00412	.00149	.00082	.00010	.00007	.109	.00008	.00001
%RSD	21.127	16.918	133.06	.09529	.09371	243.18	.31315	90.420	3.1114
#1	.00053	.02143	.00217	.86161	.10971	-.00007	34.847	.00014	.00025
#2	.00072	.02726	.00007	.86277	.10956	.00002	34.693	.00003	.00024
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	.00139	.00053	.00630	13.742	21.628	.06485	12.457	.14500	.00459
Stddev	.00004	.00004	.00080	.058	.007	.00135	.018	.00077	.00022
%RSD	2.6991	8.3623	12.697	.42208	.03428	2.0813	.14667	.53424	4.7713
#1	.00142	.00057	.00573	13.783	21.623	.06390	12.445	.14446	.00444
#2	.00137	.00050	.00686	13.701	21.633	.06581	12.470	.14555	.00475
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	408.72	.00086	-.00183	F 18.60	-.00151	.00053	4.0953	.00040	.74699
Stddev	.62	.00058	.00047	.02	.00094	.00214	.0074	.00015	.00379
%RSD	.15106	67.309	25.400	.1013	62.171	405.08	.18176	38.629	.50733
#1	408.28	.00127	-.00150	18.59	-.00218	-.00098	4.1006	.00051	.74967
#2	409.16	.00045	-.00216	18.62	-.00085	.00204	4.0900	.00029	.74431
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	-.00049	.00057	.00039
Stddev	.00019	.00006	.00029	.00037
%RSD	353.42	12.404	51.417	94.022
#1	-.00008	-.00045	.00036	.00065
#2	.00019	-.00054	.00077	.00013
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	3426.9	6652.3	57652.	8921.5
Stddev	3.3	.3	40.	19.2
%RSD	.09727	.00515	.06961	.21515
#1	3424.5	6652.5	57680.	8907.9
#2	3429.3	6652.0	57624.	8935.1

Sample Name: 480-30587-C-4-A Acquired: 12/21/2012 18:10:28 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	**-.00048**	**.01089**	**.00001**	**.46514**	**.24184**	**.00003**	**55.575**	**.00011**	**-.00010**
Stddev	.00081	.00971	.00169	.00082	.00055	.00004	.189	.00013	.00001
%RSD	167.57	89.178	11821.	.17690	.22929	145.45	.34011	113.95	9.1770
#1	-.00105	.01776	-.00118	.46572	.24145	.00006	55.709	.00020	-.00011
#2	.00009	.00402	.00121	.46456	.24224	.00000	55.441	.00002	-.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	**.00072**	**.00057**	**.08071**	**2.4747**	**3.5747**	**.02440**	**17.183**	**.03705**	**.00260**
Stddev	.00035	.00013	.00219	.0017	.0083	.00133	.038	.00014	.00013
%RSD	48.547	23.448	2.7165	.06980	.23257	5.4633	.22113	.38646	4.9741
#1	.00097	.00067	.07916	2.4759	3.5805	.02534	17.156	.03695	.00251
#2	.00048	.00048	.08226	2.4735	3.5688	.02346	17.210	.03715	.00270
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	**187.52**	**.00027**	**-.00215**	F **14.10**	**-.00113**	**-.00252**	**4.6757**	**.00039**	**.98045**
Stddev	.38	.00029	.00009	.01	.00123	.00096	.0150	.00024	.00352
%RSD	.20482	106.93	4.1273	.0913	108.73	38.234	.32014	62.824	.35928
#1	187.80	.00048	-.00208	14.09	-.00026	-.00184	4.6862	.00056	.98294
#2	187.25	.00007	-.00221	14.11	-.00200	-.00320	4.6651	.00021	.97796
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**	**-.00152**	**.00007**	**.00087**
Stddev	.00002	.00031	.00045	.00021
%RSD	3.6135	20.576	608.21	24.412
#1	.00066	-.00130	-.00025	.00072
#2	.00070	-.00174	.00040	.00102
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	**3591.4**	**6799.3**	**60435.**	**8896.0**
Stddev	3.2	14.7	124.	26.6
%RSD	.08849	.21575	.20495	.29868
#1	3589.2	6788.9	60523.	8877.2
#2	3593.7	6809.6	60348.	8914.8

Sample Name: MB 480-97039/1-A Acquired: 12/21/2012 18:12:45 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	.00056	.01880	-.00102	.00148	.00004	.00001	.02136	-.00010	.00009
Stddev	.00096	.00324	.00357	.00004	.00001	.00005	.00071	.00002	.00001
%RSD	171.91	17.242	350.43	2.6555	21.916	358.08	3.3454	16.587	9.8211
#1	.00123	.01651	-.00354	.00145	.00005	.00005	.02086	-.00009	.00008
#2	-.00012	.02110	.00150	.00150	.00003	-.00002	.02187	-.00012	.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	.00034	.00019	.00171	-.04740	.00289	.00185	.00508	.00029	-.00011
Stddev	.00008	.00010	.00322	.02837	.00094	.00160	.00161	.00002	.00000
%RSD	22.797	50.482	187.88	59.857	32.382	86.401	31.777	8.1107	3.0163
#1	.00039	.00026	.00399	-.02734	.00355	.00298	.00394	.00028	-.00011
#2	.00028	.00012	-.00056	-.06746	.00223	.00072	.00622	.00031	-.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	.07094	.00021	-.00044	F .0052	.00002	-.00041	.00103	-.00002	.00025
Stddev	.00657	.00009	.00041	.0003	.00002	.00417	.00734	.00050	.00007
%RSD	9.2559	43.430	94.594	4.773	100.79	1007.4	714.78	2726.2	26.260
#1	.07559	.00014	-.00014	.0051	.00004	-.00336	-.00416	-.00037	.00020
#2	.06630	.00027	-.00073	.0054	.00001	.00253	.00621	.00034	.00030
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	.00040	-.00022	.00005	.00072
Stddev	.00020	.00173	.00013	.00006
%RSD	48.688	805.04	262.35	8.2805
#1	.00054	.00101	.00014	.00068
#2	.00026	-.00144	-.00004	.00076
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	4131.6	7261.7	64999.	9200.9
Stddev	6.6	5.2	197.	33.6
%RSD	.15966	.07224	.30358	.36477
#1	4126.9	7258.0	65139.	9224.6
#2	4136.3	7265.4	64860.	9177.2

Sample Name: LCS 480-97039/2-A Acquired: 12/21/2012 18:15:02 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	.04979	10.377	.20388	.20639	.19614	.22055	10.621	.20245	.20802
Stddev	.00058	.013	.00067	.00058	.00113	.00040	.042	.00170	.00070
%RSD	1.1654	.12936	.33017	.28260	.57388	.18139	.39245	.84112	.33560
#1	.04938	10.386	.20436	.20680	.19535	.22083	10.650	.20366	.20851
#2	.05020	10.367	.20341	.20598	.19694	.22027	10.591	.20125	.20752
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	.20220	.20079	10.518	10.484	9.6796	.21469	9.7930	.19878	.20768
Stddev	.00143	.00172	.051	.046	.0495	.00089	.0239	.00030	.00158
%RSD	.70496	.85488	.48591	.44292	.51090	.41590	.24448	.15107	.75866
#1	.20120	.19958	10.554	10.517	9.7146	.21533	9.7760	.19857	.20880
#2	.20321	.20200	10.482	10.451	9.6447	.21406	9.8099	.19899	.20657
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	10.624	.20702	.20733	F .0018	.20557	.20044	10.272	.20088	.21270
Stddev	.067	.00010	.00001	.0013	.00120	.00051	.082	.00126	.00164
%RSD	.62668	.04592	.00705	73.78	.58393	.25526	.79351	.62782	.77097
#1	10.671	.20709	.20734	.0009	.20642	.20008	10.330	.20177	.21386
#2	10.577	.20696	.20732	.0028	.20472	.20080	10.215	.19999	.21154
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	.19855	.20721	.19914	.20909
Stddev	.00112	.00366	.00186	.00116
%RSD	.56473	1.7669	.93330	.55642
#1	.19776	.20980	.19783	.20827
#2	.19934	.20462	.20046	.20991
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	3933.7	7151.5	64861.	9020.8
Stddev	10.4	26.4	322.	37.7
%RSD	.26522	.36965	.49617	.41756
#1	3926.3	7132.8	65089.	8994.2
#2	3941.1	7170.2	64634.	9047.4

Sample Name: LCSD 480-97039/3-A Acquired: 12/21/2012 18:17:14 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	**.05027**	**10.585**	**.20463**	**.20770**	**.19771**	**.22537**	**10.840**	**.20493**	**.21142**
Stddev	.00085	.124	.00054	.00006	.00028	.00175	.085	.00105	.00095
%RSD	1.6854	1.1752	.26341	.02932	.14307	.77461	.78654	.51249	.44775
#1	.05087	10.673	.20501	.20774	.19791	.22661	10.900	.20567	.21209
#2	.04967	10.497	.20425	.20766	.19751	.22414	10.779	.20418	.21075
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	**.20482**	**.20525**	**10.742**	**10.704**	**9.8570**	**.21822**	**9.8733**	**.20033**	**.20965**
Stddev	.00037	.00043	.065	.113	.1320	.00027	.0057	.00022	.00046
%RSD	.18028	.20736	.60817	1.0512	1.3394	.12570	.05753	.11198	.21909
#1	.20456	.20555	10.789	10.784	9.9504	.21842	9.8692	.20049	.20997
#2	.20508	.20495	10.696	10.624	9.7636	.21803	9.8773	.20017	.20932
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	**10.759**	**.20972**	**.21058**	F **-.0020**	**.20847**	**.20071**	**10.393**	**.20227**	**.21705**
Stddev	.057	.00112	.00077	.0008	.00095	.00030	.079	.00006	.00071
%RSD	.53101	.53258	.36588	42.66	.45482	.14738	.76475	.02890	.32524
#1	10.799	.21051	.21113	-.0026	.20914	.20092	10.449	.20231	.21754
#2	10.718	.20893	.21004	-.0014	.20780	.20050	10.337	.20223	.21655
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	**.20145**	**.20905**	**.20080**	**.21070**
Stddev	.00054	.00400	.00079	.00069
%RSD	.26891	1.9134	.39326	.32871
#1	.20106	.21187	.20136	.21021
#2	.20183	.20622	.20024	.21119
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	**3937.8**	**7148.6**	**64880.**	**8949.7**
Stddev	5.7	27.1	111.	91.3
%RSD	.14439	.37870	.17145	1.0202
#1	3933.7	7129.5	64801.	8885.2
#2	3941.8	7167.8	64959.	9014.3

Sample Name: 480-30453-B-1-A Acquired: 12/21/2012 18:19:26 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	.00046	.40042	.00106	3.7383	.02694	.00016	32.239	.00278	.01092
Stddev	.00087	.03833	.00164	.0038	.00008	.00002	.138	.00012	.00014
%RSD	189.97	9.5720	154.94	.10200	.30591	14.298	.42900	4.4376	1.2754
#1	-.00016	.42752	-.00010	3.7410	.02688	.00018	32.141	.00269	.01082
#2	.00108	.37332	.00222	3.7357	.02700	.00014	32.336	.00286	.01102
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	.00435	.01990	.19208	9.2888	10.530	.00502	8.9634	2.8724	-.00008
Stddev	.00059	.00014	.00595	.0349	.051	.00036	.0101	.0112	.00031
%RSD	13.644	.67956	3.0981	.37581	.48744	7.1870	.11208	.38903	410.13
#1	.00477	.01981	.18787	9.2641	10.494	.00528	8.9706	2.8645	-.00030
#2	.00393	.02000	.19629	9.3135	10.566	.00477	8.9563	2.8803	.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	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	71.484	.33768	.00394	F 66.28	-.00037	.00348	12.588	.00038	.12222
Stddev	.573	.00055	.00189	.03	.00066	.00104	.002	.00031	.00004
%RSD	.80097	.16282	47.995	.0383	178.55	29.766	.01427	81.759	.03420
#1	71.079	.33807	.00527	66.29	-.00084	.00275	12.590	.00016	.12219
#2	71.889	.33729	.00260	66.26	.00010	.00421	12.587	.00060	.12225
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	.00024	.00433	.00042	.53185
Stddev	.00076	.00143	.00055	.00109
%RSD	312.74	32.908	131.90	.20495
#1	.00078	.00332	.00080	.53262
#2	-.00029	.00534	.00003	.53108
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	3824.9	7046.0	63641.	9016.0
Stddev	1.5	3.8	159.	13.7
%RSD	.03853	.05389	.24981	.15184
#1	3823.8	7043.3	63754.	9006.3
#2	3825.9	7048.6	63529.	9025.7

Sample Name: 480-30497-G-1-D Acquired: 12/21/2012 18:21:42 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	**.00099**	**.21270**	**.00205**	**.04302**	**.04858**	**.00008**	**191.32**	**.00008**	**.00119**
Stddev	.00007	.02635	.00082	.00110	.00008	.00007	1.67	.00001	.00017
%RSD	6.8204	12.388	39.838	2.5586	.16762	91.510	.87328	16.494	14.458
#1	.00094	.23133	.00263	.04380	.04852	.00013	190.14	.00009	.00131
#2	.00103	.19406	.00147	.04225	.04863	.00003	192.50	.00007	.00107
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	**.00853**	**.00253**	**.42581**	**7.6342**	**9.5801**	**.00709**	**12.608**	**.70095**	**.00026**
Stddev	.00013	.00016	.00096	.1025	.0871	.00096	.035	.00058	.00022
%RSD	1.5249	6.3287	.22470	1.3420	.90867	13.556	.28063	.08240	85.998
#1	.00862	.00242	.42513	7.5617	9.5185	.00641	12.633	.70055	.00010
#2	.00843	.00264	.42648	7.7066	9.6416	.00777	12.583	.70136	.00041
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	**68.303**	**.00526**	**.00044**	F **183.0**	**-.00025**	**.00450**	**4.2990**	**-.00003**	**.30129**
Stddev	.577	.00029	.00067	.1	.00011	.00080	.0327	.00024	.00411
%RSD	.84538	5.5891	151.14	.0507	45.237	17.843	.76068	679.88	1.3656
#1	67.895	.00505	.00092	183.0	-.00017	.00506	4.2759	.00013	.29838
#2	68.712	.00547	-.00003	182.9	-.00033	.00393	4.3222	-.00020	.30420
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	**.00496**	**.00098**	**.00052**	**.03986**
Stddev	.00008	.00132	.00012	.00000
%RSD	1.5394	135.10	23.623	.00776
#1	.00502	.00191	.00043	.03986
#2	.00491	.00004	.00061	.03986
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	**3615.0**	**6714.0**	**61834.**	**8841.8**
Stddev	4.5	2.7	127.	37.4
%RSD	.12420	.03959	.20514	.42244
#1	3611.9	6712.2	61924.	8868.2
#2	3618.2	6715.9	61744.	8815.4

Sample Name: 480-30497-G-2-B Acquired: 12/21/2012 18:23:59 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	-.00006	.90478	.00230	.00857	.02564	.00008	53.432	.00003	.00038
Stddev	.00071	.01169	.00104	.00032	.00010	.00001	.183	.00007	.00007
%RSD	1266.8	1.2925	45.427	3.6795	.38766	10.547	.34190	203.34	18.610
#1	-.00055	.89651	.00303	.00879	.02557	.00008	53.303	-.00001	.00033
#2	.00044	.91304	.00156	.00834	.02571	.00009	53.561	.00008	.00043
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	.00683	.00334	1.5185	4.0262	4.0536	.00367	2.3975	.11875	.00018
Stddev	.00012	.00021	.0025	.0006	.0164	.00085	.0114	.00019	.00044
%RSD	1.7294	6.3472	.16257	.01393	.40392	23.021	.47669	.15936	243.85
#1	.00674	.00349	1.5203	4.0266	4.0420	.00427	2.4056	.11889	.00049
#2	.00691	.00319	1.5168	4.0258	4.0651	.00308	2.3894	.11862	-.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	17.918	.00139	.00305	F 31.17	-.00052	-.00159	1.2217	.00017	.07071
Stddev	.051	.00038	.00130	.04	.00007	.00275	.0635	.00008	.00020
%RSD	.28238	27.337	42.759	.1260	12.677	172.66	5.2004	47.256	.28349
#1	17.954	.00166	.00397	31.19	-.00056	-.00354	1.1767	.00011	.07085
#2	17.883	.00112	.00212	31.14	-.00047	.00035	1.2666	.00022	.07057
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	.04216	-.00027	.00203	.01025
Stddev	.00044	.00061	.00013	.00022
%RSD	1.0538	229.83	6.5384	2.1666
#1	.04185	.00017	.00212	.01009
#2	.04248	-.00070	.00194	.01041
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	3887.8	6965.5	64187.	8993.5
Stddev	6.3	9.9	196.	11.3
%RSD	.16267	.14211	.30589	.12558
#1	3892.3	6972.5	64048.	9001.5
#2	3883.3	6958.5	64326.	8985.5

Sample Name: 480-30497-G-3-B Acquired: 12/21/2012 18:26:12 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	**.00054**	**1.8329**	**-.00267**	**.01258**	**.01293**	**.00026**	**22.671**	**.00010**	**.00763**
Stddev	.00038	.0186	.00028	.00003	.00006	.00001	.089	.00012	.00004
%RSD	69.329	1.0149	10.350	.26607	.48184	2.1003	.39310	126.50	.55544
#1	.00028	1.8460	-.00286	.01256	.01289	.00026	22.734	.00018	.00766
#2	.00081	1.8197	-.00247	.01260	.01297	.00026	22.608	.00001	.00760
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	**.28671**	**.00455**	**1.5270**	**1.2555**	**1.4710**	**.00823**	**3.2504**	**.49810**	**.00003**
Stddev	.00154	.00025	.0003	.0113	.0093	.00134	.0331	.00546	.00017
%RSD	.53834	5.5437	.01997	.90249	.63275	16.300	1.0188	1.0971	587.14
#1	.28562	.00437	1.5267	1.2635	1.4776	.00918	3.2270	.49423	.00015
#2	.28780	.00473	1.5272	1.2475	1.4644	.00728	3.2739	.50196	-.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	**51.649**	**.00900**	**-.00007**	F **44.48**	**-.00202**	**.00196**	**3.3036**	**.00016**	**.05847**
Stddev	.286	.00051	.00227	.07	.00034	.00088	.0265	.00013	.00005
%RSD	.55290	5.7020	3190.0	.1461	17.033	45.021	.80211	84.495	.08936
#1	51.447	.00937	.00153	44.53	-.00226	.00258	3.3223	.00025	.05851
#2	51.851	.00864	-.00167	44.43	-.00177	.00133	3.2848	.00006	.05843
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	**.00155**	**-.00024**	**.00060**	**.02518**
Stddev	.00005	.00061	.00005	.00006
%RSD	3.3528	249.20	8.0225	.22804
#1	.00158	-.00068	.00063	.02522
#2	.00151	.00019	.00056	.02514
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	**3875.3**	**6992.5**	**63820.**	**8918.7**
Stddev	3.8	5.7	489.	23.3
%RSD	.09832	.08090	.76607	.26095
#1	3878.0	6996.5	64165.	8902.2
#2	3872.6	6988.5	63474.	8935.1

Sample Name: CCV Acquired: 12/21/2012 18:28:26 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	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49361	25.457	.49574	.49387	.52422	.51355	26.238	.49229	.49851	.49655	.50070	24.847	25.629
Stddev	.00724	.377	.00215	.00202	.00589	.00780	.362	.00194	.00187	.00626	.00416	.389	.205
%RSD	1.4672	1.4818	.43389	.40840	1.1245	1.5198	1.3781	.39461	.37605	1.2609	.83009	1.5657	.80113
#1	.49873	25.724	.49726	.49529	.52838	.51906	26.494	.49366	.49983	.50097	.50364	25.123	25.774
#2	.48849	25.190	.49422	.49244	.52005	.50803	25.983	.49091	.49718	.49212	.49776	24.572	25.484
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	25.194	.51637	24.079	.49868	.48704	25.515	.49889	.50522	24.33	.49649	.50597	24.412	.50897
Stddev	.456	.00759	.322	.00578	.00233	.307	.00219	.00159	.07	.00054	.00139	.269	.00061
%RSD	1.8080	1.4693	1.3381	1.1589	.47831	1.2029	.43880	.31428	.3046	.10887	.27421	1.1000	.11925
#1	25.516	.52173	24.307	.50277	.48869	25.732	.50044	.50634	24.38	.49611	.50499	24.602	.50940
#2	24.872	.51100	23.851	.49459	.48539	25.298	.49735	.50410	24.27	.49687	.50695	24.222	.50854
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	.52101	.49659	.49485	.48788	.49757
Stddev	.00624	.00790	.00030	.00623	.00816
%RSD	1.1971	1.5901	.06097	1.2765	1.6394
#1	.52542	.50217	.49464	.49229	.50333
#2	.51660	.49100	.49507	.48348	.49180
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	3766.1	6945.1	61895.	8837.1
Stddev	8.4	19.2	559.	97.7
%RSD	.22307	.27587	.90267	1.1055
#1	3760.1	6931.5	61500.	8768.0
#2	3772.0	6958.6	62290.	8906.2

Sample Name: CCB Acquired: 12/21/2012 18:30:39 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00111	-.00275	-.00150	.00146	.00177	.00025	.05723	.00009	.00006	.00074	.00060	.01157	-.06299
Stddev	.00053	.00784	.00158	.00000	.00006	.00008	.00501	.00011	.00011	.00012	.00011	.00056	.04689
%RSD	47.628	285.38	105.00	.20388	3.1680	32.594	8.7551	122.70	202.66	16.491	17.551	4.8596	74.442
#1	.00073	-.00829	-.00262	.00146	.00181	.00019	.06077	.00017	.00014	.00066	.00068	.01117	-.02983
#2	.00148	.00280	-.00039	.00146	.00173	.00031	.05369	.00001	-.00002	.00083	.00053	.01196	-.09614
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	.01105	.00303	.02137	.00034	.00033	.09831	.00022	.00046	F .0340	.00072	.00046	.01306	.00017
Stddev	.00042	.00017	.00246	.00003	.00008	.00174	.00027	.00062	.0002	.00085	.00091	.01692	.00018
%RSD	3.7927	5.6133	11.527	9.5425	25.091	1.7658	123.51	135.96	.6269	117.42	196.49	129.55	104.86
#1	.01135	.00315	.01963	.00032	.00039	.09709	.00003	.00090	.0342	.00132	.00110	.02502	.00029
#2	.01076	.00291	.02311	.00036	.00027	.09954	.00042	.00002	.0338	.00012	-.00018	.00110	.00004
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	.00231	.00018	-.00040	.00000	.00070
Stddev	.00013	.00041	.00050	.0002	.00010
%RSD	5.4969	220.89	126.81	11036.	13.897
#1	.00239	.00047	-.00075	.00012	.00063
#2	.00222	-.00010	-.00004	-.00012	.00077
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	4121.8	7125.2	64631.	8901.8
Stddev	5.3	12.5	207.	85.1
%RSD	.12856	.17545	.32015	.95643
#1	4125.5	7134.0	64777.	8841.6
#2	4118.0	7116.3	64485.	8962.0

Sample Name: 480-30497-G-3-B SD@5 Acquired: 12/21/2012 18:32:58 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	.00076	.35396	.00043	.00246	.00340	.00017	4.5230	-.00008	.00155
Stddev	.00011	.01111	.00073	.00033	.00007	.00006	.0035	.00008	.00002
%RSD	14.438	3.1378	169.17	13.473	1.9353	34.911	.07762	100.67	.99871
#1	.00068	.36181	.00094	.00223	.00345	.00021	4.5206	-.00002	.00156
#2	.00084	.34611	-.00008	.00270	.00336	.00013	4.5255	-.00014	.00154
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	.05916	.00138	.29969	.21113	.22826	.00387	.69066	.10475	.00004
Stddev	.00089	.00018	.00183	.00310	.00249	.00102	.00257	.00011	.00018
%RSD	1.4989	13.063	.61168	1.4667	1.0899	26.331	.37270	.10808	475.95
#1	.05978	.00126	.30098	.21332	.23002	.00315	.69248	.10483	-.00009
#2	.05853	.00151	.29839	.20894	.22650	.00459	.68884	.10467	.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	10.413	.00177	.00101	8.873	.00027	-.00118	.67197	.00020	.01224
Stddev	.021	.00057	.00104	.016	.00008	.00179	.00511	.00017	.00028
%RSD	.20034	32.274	103.11	.1756	30.587	152.05	.76067	84.804	2.2541
#1	10.428	.00137	.00174	8.862	.00021	-.00245	.66836	.00008	.01243
#2	10.398	.00218	.00027	8.884	.00033	.00009	.67559	.00032	.01204
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	.00148	.00001	.00574
Stddev	.00006	.00172	.00006	.00013
%RSD	15.369	116.05	565.63	2.2344
#1	.00035	.00027	-.00003	.00565
#2	.00043	.00270	.00005	.00584
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	4031.7	7042.2	63644.	9056.4
Stddev	6.8	10.7	190.	26.0
%RSD	.16952	.15206	.29831	.28739
#1	4036.6	7049.7	63510.	9038.0
#2	4026.9	7034.6	63778.	9074.8

Sample Name: 480-30497-G-3-B PDS Acquired: 12/21/2012 18:35:11 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	.05103	11.898	.21260	.22226	.21806	.21001	31.468	.21056	.22536
Stddev	.00023	.191	.00248	.00070	.00030	.00280	.231	.00006	.00034
%RSD	.44746	1.6076	1.1674	.31702	.13752	1.3331	.73513	.02735	.15059
#1	.05087	11.763	.21084	.22276	.21827	.20803	31.305	.21052	.22560
#2	.05119	12.034	.21435	.22177	.21784	.21199	31.632	.21061	.22512
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	.49064	.21607	11.345	11.307	12.899	.21292	13.644	.71669	.21094
Stddev	.00049	.00045	.086	.135	.042	.00340	.010	.00104	.00026
%RSD	.09938	.21025	.75515	1.1904	.32757	1.5984	.07511	.14577	.12334
#1	.49099	.21639	11.285	11.212	12.869	.21051	13.651	.71743	.21076
#2	.49030	.21575	11.406	11.402	12.929	.21532	13.637	.71595	.21112
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	59.417	.22078	.21128	F 44.19	.21204	.21094	13.193	.21109	.25690
Stddev	.856	.00093	.00162	.09	.00210	.00308	.185	.00067	.00385
%RSD	1.4400	.41991	.76882	.2054	.99046	1.4579	1.4032	.31703	1.4971
#1	58.812	.22012	.21242	44.12	.21352	.20876	13.062	.21062	.25418
#2	60.022	.22143	.21013	44.25	.21055	.21311	13.324	.21156	.25962
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	.20516	.21230	.21117	.23766
Stddev	.00126	.00207	.00054	.00098
%RSD	.61352	.97377	.25576	.41102
#1	.20605	.21084	.21155	.23835
#2	.20427	.21376	.21079	.23697
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	3718.9	6824.0	61335.	9217.3
Stddev	7.5	19.3	50.	35.0
%RSD	.20105	.28307	.08102	.37955
#1	3724.2	6837.6	61370.	9242.0
#2	3713.6	6810.3	61300.	9192.6

Sample Name: 480-30497-G-3-C MS Acquired: 12/21/2012 18:37:22 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	**.05156**	**12.065**	**.20613**	**.21908**	**.21336**	**.21045**	**31.716**	**.20487**	**.21925**
Stddev	.00037	.012	.00001	.00014	.00022	.00075	.149	.00050	.00015
%RSD	.72577	.10339	.00268	.06579	.10180	.35549	.47064	.24587	.06789
#1	.05183	12.056	.20613	.21918	.21351	.20992	31.610	.20523	.21914
#2	.05130	12.073	.20612	.21898	.21320	.21098	31.821	.20452	.21935
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	**.48390**	**.21013**	**11.382**	**11.389**	**13.097**	**.21482**	**13.230**	**.70267**	**.20564**
Stddev	.00147	.00047	.038	.092	.064	.00263	.075	.00238	.00024
%RSD	.30286	.22170	.33328	.81078	.49009	1.2225	.56809	.33886	.11670
#1	.48494	.21046	11.356	11.324	13.051	.21296	13.283	.70436	.20581
#2	.48286	.20980	11.409	11.454	13.142	.21668	13.177	.70099	.20547
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	**60.145**	**.21477**	**.20738**	F **44.11**	**.20656**	**.20879**	**13.089**	**.20342**	**.25870**
Stddev	.392	.00002	.00051	.04	.00085	.00080	.005	.00016	.00159
%RSD	.65115	.00908	.24715	.0832	.41223	.38218	.03991	.08079	.61593
#1	59.868	.21478	.20775	44.08	.20595	.20935	13.093	.20353	.25757
#2	60.422	.21475	.20702	44.14	.20716	.20822	13.086	.20330	.25983
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	**.20033**	**.20612**	**.20439**	**.23588**
Stddev	.00021	.00420	.00107	.00144
%RSD	.10679	2.0390	.52183	.60986
#1	.20048	.20315	.20515	.23690
#2	.20018	.20909	.20364	.23487
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	**3750.9**	**6892.8**	**62083.**	**9100.8**
Stddev	7.4	2.1	25.	25.5
%RSD	.19846	.03118	.03962	.27974
#1	3756.2	6894.3	62065.	9118.8
#2	3745.6	6891.3	62100.	9082.8

Sample Name: 480-30497-G-3-D MSD Acquired: 12/21/2012 18:39:34 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	.05332	12.158	.21270	.22405	.22043	.21309	32.227	.20960	.22374
Stddev	.00020	.114	.00054	.00077	.00011	.00230	.329	.00121	.00098
%RSD	.37587	.94069	.25449	.34158	.05044	1.0793	1.0195	.57683	.43815
#1	.05346	12.077	.21309	.22459	.22051	.21146	31.994	.21046	.22443
#2	.05318	12.239	.21232	.22351	.22035	.21471	32.459	.20875	.22305
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	.49920	.21650	11.517	11.503	13.250	.21882	13.706	.73091	.21148
Stddev	.00359	.00011	.112	.101	.056	.00223	.007	.00079	.00109
%RSD	.71855	.05265	.97074	.87525	.42409	1.0190	.05051	.10869	.51677
#1	.50173	.21642	11.438	11.432	13.210	.21724	13.711	.73035	.21226
#2	.49666	.21658	11.596	11.574	13.290	.22040	13.701	.73147	.21071
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	61.667	.21939	.21051	F 45.37	.21194	.21369	13.435	.20859	.26207
Stddev	.299	.00108	.00218	.25	.00055	.00532	.089	.00149	.00300
%RSD	.48563	.49389	1.0362	.5464	.25794	2.4883	.66594	.71352	1.1442
#1	61.455	.22015	.21206	45.54	.21156	.21745	13.372	.20964	.25995
#2	61.879	.21862	.20897	45.19	.21233	.20993	13.499	.20753	.26419
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	.20597	.20923	.21179	.23827
Stddev	.00037	.00182	.00050	.00115
%RSD	.18159	.87143	.23798	.48085
#1	.20624	.21052	.21214	.23908
#2	.20571	.20794	.21143	.23746
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	3723.0	6849.1	61135.	9090.0
Stddev	10.4	22.2	48.	41.0
%RSD	.28055	.32463	.07841	.45068
#1	3715.6	6833.4	61169.	9119.0
#2	3730.4	6864.9	61101.	9061.0

Sample Name: 480-30497-G-4-B Acquired: 12/21/2012 18:41:45 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	**.00050**	**3.5790**	**-.00118**	**.01713**	**.02096**	**.00056**	**25.854**	**.00010**	**.01292**
Stddev	.00105	.0404	.00135	.00031	.00002	.00002	.029	.00004	.00015
%RSD	211.37	1.1298	114.14	1.7959	.09880	3.7171	.11108	44.425	1.1747
#1	-.00025	3.5505	-.00214	.01735	.02097	.00055	25.834	.00013	.01303
#2	.00124	3.6076	-.00023	.01691	.02094	.00058	25.875	.00007	.01282
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	**.71069**	**.00965**	**3.6561**	**1.7048**	**2.1572**	**.01171**	**5.1201**	**.85218**	**.00036**
Stddev	.00297	.00063	.0195	.0068	.0200	.00058	.0119	.00463	.00025
%RSD	.41736	6.5075	.53233	.40122	.92859	4.9557	.23300	.54351	70.372
#1	.71279	.01010	3.6423	1.7000	2.1431	.01130	5.1285	.85545	.00054
#2	.70859	.00921	3.6698	1.7097	2.1714	.01212	5.1116	.84890	.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	**87.873**	**.01405**	**-.00044**	F **65.57**	**-.00599**	**-.00003**	**5.6268**	**.00010**	**.08654**
Stddev	.181	.00098	.00226	.04	.00025	.00188	.0053	.00016	.00043
%RSD	.20577	6.9518	517.65	.0652	4.2340	5876.0	.09372	155.56	.49533
#1	88.000	.01474	-.00203	65.60	-.00581	-.00136	5.6230	-.00001	.08624
#2	87.745	.01336	.00116	65.54	-.00617	.00130	5.6305	.00022	.08684
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	**.00397**	**.00083**	**.00221**	**.03841**
Stddev	.00025	.00219	.00045	.00043
%RSD	6.2674	264.67	20.194	1.1198
#1	.00414	.00238	.00253	.03871
#2	.00379	-.00072	.00190	.03810
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	**3725.9**	**6830.1**	**61416.**	**9168.4**
Stddev	.2	3.3	328.	1.7
%RSD	.00450	.04768	.53383	.01840
#1	3726.0	6827.8	61184.	9167.2
#2	3725.8	6832.4	61647.	9169.6

Sample Name: LB 480-96872/1-B Acquired: 12/21/2012 18:43:55 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	**-.00058**	**.02414**	**-.00038**	F **.09179**	F **.04674**	**.00005**	F **.65450**	**.00015**	**.00005**
Stddev	.00075	.03605	.00046	.00041	.00031	.00005	.00361	.00010	.00002
%RSD	128.64	149.32	120.96	.44912	.66867	87.169	.55169	67.984	41.749
#1	-.00111	.04963	-.00070	.09208	.04652	.00002	.65705	.00022	.00004
#2	-.00005	-.00135	-.00005	.09150	.04696	.00008	.65194	.00008	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.02000	.00200		.50000		
Low Limit				-.00800	-.00300		-.05000		

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	**.00301**	**.00185**	**.03465**	**.32748**	F **.67799**	**.00299**	**.12090**	**.00071**	**.00302**
Stddev	.00030	.00017	.00123	.02623	.00054	.00043	.00432	.00008	.00016
%RSD	10.099	8.9465	3.5391	8.0106	.07961	14.333	3.5756	11.438	5.2572
#1	.00280	.00173	.03378	.34603	.67761	.00329	.12396	.00077	.00290
#2	.00323	.00196	.03551	.30893	.67837	.00268	.11784	.00065	.00313
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					.50000				
Low Limit					-.50000				

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	F **1661.8**	**.00131**	**.00022**	F **.0540**	**-.00036**	**.00036**	**.05599**	**.00099**	**.00391**
Stddev	3.8	.00020	.00022	.0033	.00061	.00202	.00539	.00072	.00008
%RSD	.22736	14.972	103.30	6.098	167.05	562.73	9.6217	72.261	2.0259
#1	1659.2	.00145	.00006	.0564	.00007	.00178	.05980	.00150	.00385
#2	1664.5	.00117	.00037	.0517	-.00079	-.00107	.05218	.00049	.00396
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000			.0030					
Low Limit	-.50000			-.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	**.00005**	**-.00074**	**-.00008**	F **.01687**
Stddev	.00018	.00013	.00011	.00028
%RSD	336.59	17.103	129.11	1.6557
#1	-.00007	-.00065	-.00016	.01668
#2	.00018	-.00083	-.00001	.01707
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	**3065.0**	**6208.8**	**53287.**	**8751.2**
Stddev	2.8	10.8	361.	17.8
%RSD	.09033	.17362	.67698	.20376
#1	3063.0	6201.2	53542.	8738.6
#2	3066.9	6216.5	53032.	8763.8

Sample Name: MB 480-97059/2-A Acquired: 12/21/2012 18:46:15 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	**-.00013**	**-.00162**	**-.00147**	**-.00070**	**-.00002**	**.00001**	**-.00071**	**-.00021**	**-.00006**
Stddev	.00022	.01865	.00380	.00020	.00001	.00005	.00023	.00023	.00016
%RSD	171.81	1151.8	257.87	28.074	31.218	402.42	32.279	111.74	264.10
#1	-.00029	-.01481	-.00416	-.00056	-.00002	.00005	-.00054	-.00004	.00005
#2	.00003	.01157	.00121	-.00084	-.00001	-.00003	-.00087	-.00037	-.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	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	**.00051**	**-.00015**	**-.00020**	**-.02926**	**.00266**	**.00344**	**.00757**	**.00024**	**-.00024**
Stddev	.00015	.00012	.00417	.00569	.00042	.00195	.00106	.00005	.00006
%RSD	28.300	79.644	2078.9	19.441	15.687	56.771	14.031	19.371	23.478
#1	.00041	-.00024	-.00315	-.02523	.00296	.00206	.00832	.00027	-.00028
#2	.00062	-.00007	.00275	-.03328	.00237	.00483	.00682	.00020	-.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	**.42766**	**.00017**	**.00033**	F **.0080**	**.00118**	**.00055**	**.00148**	**.00027**	**-.00020**
Stddev	.05403	.00032	.00113	.0015	.00016	.00358	.00125	.00024	.00008
%RSD	12.634	190.56	347.95	18.38	13.867	649.81	84.534	88.602	40.309
#1	.46587	.00040	-.00047	.0090	.00107	-.00198	.00237	.00044	-.00014
#2	.38946	-.00006	.00112	.0069	.00130	.00308	.00060	.00010	-.00025
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	**-.00008**	**.00059**	**.00000**	**.00060**
Stddev	.00009	.00292	.0001	.00006
%RSD	104.92	498.55	2515.1	10.196
#1	-.00015	-.00148	-.00009	.00065
#2	-.00002	.00265	.00008	.00056
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	**4082.4**	**7104.1**	**63037.**	**9132.3**
Stddev	2.4	10.0	299.	79.0
%RSD	.05869	.14095	.47363	.86509
#1	4084.1	7097.0	63248.	9076.5
#2	4080.8	7111.2	62826.	9188.2

Sample Name: LCS 480-97059/3-A Acquired: 12/21/2012 18:48:29 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	**1.0868**	**.03452**	**1.0946**	**.09083**	**1.0405**	**.97549**	**.62673**	**1.0536**	**1.0733**
Stddev	.0000	.01702	.0027	.00036	.0013	.00222	.00203	.0017	.0024
%RSD	.00378	49.306	.24343	.39515	.12194	.22740	.32314	.16560	.22398
#1	1.0867	.02248	1.0928	.09057	1.0396	.97706	.62530	1.0548	1.0750
#2	1.0868	.04655	1.0965	.09108	1.0414	.97392	.62816	1.0524	1.0716
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass	None	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	**1.0051**	**1.0350**	**.02430**	**.27192**	**.64919**	**.00228**	**.09435**	**1.0028**	**.99767**
Stddev	.0009	.0004	.00200	.02349	.00156	.00041	.00302	.0001	.00145
%RSD	.09293	.03702	8.2444	8.6382	.24105	17.857	3.1976	.00594	.14546
#1	1.0045	1.0352	.02572	.28853	.65030	.00257	.09222	1.0028	.99870
#2	1.0058	1.0347	.02289	.25531	.64808	.00200	.09649	1.0029	.99664
Check ?	Chk Pass	Chk Pass	None	None	None	None	None	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	**1620.3**	**1.0485**	**1.0479**	F **.0425**	**1.0423**	**1.0901**	**.06476**	**.00130**	**.00385**
Stddev	4.6	.0048	.0050	.0001	.0024	.0006	.01771	.00029	.00021
%RSD	.28466	.45495	.47353	.1354	.22913	.05250	27.348	22.532	5.5541
#1	1617.1	1.0519	1.0514	.0425	1.0440	1.0897	.05224	.00151	.00400
#2	1623.6	1.0451	1.0443	.0424	1.0406	1.0905	.07729	.00109	.00370
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	None	None
High Limit				1.200					
Low Limit				.8000					

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	**.00109**	**.94609**	**1.0216**	**1.1633**
Stddev	.00025	.00090	.0013	.0010
%RSD	22.569	.09481	.12755	.08288
#1	.00126	.94546	1.0207	1.1626
#2	.00091	.94673	1.0226	1.1640
Check ?	None	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	**3041.8**	**6174.0**	**53225.**	**8875.6**
Stddev	2.3	4.5	21.	49.8
%RSD	.07680	.07363	.04007	.56060
#1	3040.2	6177.2	53240.	8840.4
#2	3043.5	6170.8	53210.	8910.7

Sample Name: 480-30485-A-1-B Acquired: 12/21/2012 18:50:41 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	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	.00038	.76867	.04787	.49001	.95039	.00020	444.95	.29529	.15301
Stddev	.00010	.01293	.00198	.00531	.00013	.00015	3.14	.00379	.00180
%RSD	25.447	1.6815	4.1464	1.0840	.01399	77.364	.70472	1.2835	1.1768
#1	.00032	.77781	.04646	.49377	.95048	.00031	447.17	.29797	.15428
#2	.00045	.75953	.04927	.48626	.95029	.00009	442.74	.29261	.15173
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	.04711	.56462	1.6903	60.333	96.591	.06019	10.516	2.1107	.01375
Stddev	.00040	.00239	.0043	.032	.794	.00017	.068	.0126	.00024
%RSD	.83885	.42359	.25287	.05303	.82248	.27729	.64337	.59845	1.7717
#1	.04683	.56293	1.6934	60.356	97.153	.06008	10.468	2.1018	.01392
#2	.04739	.56632	1.6873	60.310	96.030	.06031	10.564	2.1196	.01357
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	1727.8	.06873	3.3301	F 20.63	.00649	.01365	15.011	.00235	1.4278
Stddev	1.2	.00059	.0374	.25	.00080	.00184	.022	.00014	.0028
%RSD	.06714	.85374	1.1237	1.225	12.320	13.468	.14894	5.9735	.19466
#1	1728.6	.06915	3.3566	20.81	.00592	.01235	14.995	.00245	1.4298
#2	1727.0	.06832	3.3037	20.45	.00705	.01495	15.027	.00225	1.4258
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	.02851	-.00060	.00549	F 31.054
Stddev	.00008	.00394	.00020	.105
%RSD	.27805	653.32	3.7136	.33771
#1	.02845	-.00339	.00535	30.980
#2	.02857	.00218	.00564	31.129
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	2842.4	5894.2	51807.	8839.1
Stddev	26.3	46.7	72.	58.7
%RSD	.92628	.79268	.13986	.66409
#1	2823.7	5861.2	51858.	8797.6
#2	2861.0	5927.2	51755.	8880.6

Sample Name: 480-30535-A-1-C Acquired: 12/21/2012 18:53:06 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	.00028	.28824	.00236	.16404	.19814	-.00001	688.03	.00089	.01167
Stddev	.00040	.00820	.00092	.00016	.00043	.00009	39.46	.00011	.00013
%RSD	143.85	2.8452	38.878	.10018	.21667	1664.4	5.7346	12.310	1.1422
#1	.00000	.28244	.00171	.16392	.19844	.00006	660.13	.00096	.01177
#2	.00056	.29403	.00300	.16415	.19783	-.00007	715.93	.00081	.01158
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	.00277	.01024	.26734	2.5577	5.1001	.01104	17.377	1.0733	.00309
Stddev	.00039	.00016	.01420	.1553	.2863	.00066	.044	.0017	.00007
%RSD	14.212	1.5281	5.3114	6.0698	5.6142	6.0126	.25328	.15871	2.3563
#1	.00305	.01035	.25730	2.4480	4.8976	.01057	17.408	1.0745	.00304
#2	.00250	.01013	.27738	2.6675	5.3026	.01151	17.346	1.0721	.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	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	1749.2	.02560	.00373	1.417	-.00005	.00728	1.6373	.00070	1.3183
Stddev	117.7	.00097	.00261	.003	.00101	.00140	.1113	.00015	.0933
%RSD	6.7286	3.7704	69.956	.2272	1895.1	19.234	6.7986	21.204	7.0769
#1	1666.0	.02628	.00557	1.415	-.00077	.00826	1.5586	.00080	1.2523
#2	1832.5	.02491	.00188	1.419	.00066	.00629	1.7160	.00059	1.3842
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	.01008	-.00352	.00068	.06363
Stddev	.00127	.00472	.00056	.00088
%RSD	12.599	134.09	82.036	1.3793
#1	.00918	-.00685	.00029	.06425
#2	.01097	-.00018	.00108	.06301
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	2829.1	5853.0	51487.	8206.1
Stddev	.2	3.0	23.	462.4
%RSD	.00618	.05203	.04494	5.6353
#1	2829.2	5855.1	51470.	8533.0
#2	2829.0	5850.8	51503.	7879.1

Sample Name: CCV Acquired: 12/21/2012 18:55:28 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	.49986	24.392	.49644	.48967	.50632	.49085	24.920	.49596	.49095	.49500	.49541	23.494	24.905
Stddev	.00312	.348	.00055	.00035	.00731	.00585	.332	.00031	.00063	.00557	.00356	.318	.386
%RSD	.62461	1.4283	.11149	.07078	1.4444	1.1915	1.3318	.06256	.12868	1.1248	.71888	1.3547	1.5502
#1	.50207	24.638	.49604	.48991	.51149	.49499	25.155	.49574	.49140	.49894	.49793	23.719	25.178
#2	.49766	24.145	.49683	.48942	.50115	.48672	24.685	.49618	.49050	.49106	.49289	23.269	24.632
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	25.041	.50483	24.190	.50259	.49882	25.511	.49116	.49308	24.69	.49935	.49254	24.410	.51744
Stddev	.052	.00667	.228	.00589	.00081	.353	.00007	.00204	.02	.00262	.00137	.271	.00150
%RSD	.20604	1.3205	.94099	1.1715	.16184	1.3819	.01402	.41473	.0790	.52420	.27780	1.1092	.28960
#1	25.078	.50954	24.351	.50675	.49825	25.760	.49111	.49452	24.68	.50120	.49350	24.602	.51638
#2	25.005	.50011	24.029	.49842	.49939	25.262	.49121	.49163	24.70	.49750	.49157	24.219	.51850
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	.49546	.50177	.50081	.49724	.49765
Stddev	.00636	.00500	.00334	.00719	.00601
%RSD	1.2830	.99727	.66705	1.4457	1.2069
#1	.49996	.50531	.49845	.50232	.50190
#2	.49097	.49823	.50317	.49215	.49341
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	3680.6	6805.1	60876.	8866.9
Stddev	4.2	.4	643.	74.7
%RSD	.11518	.00568	1.0568	.84277
#1	3683.6	6804.8	60421.	8814.1
#2	3677.6	6805.4	61331.	8919.7

Sample Name: CCB Acquired: 12/21/2012 18:57:38 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	.00021	-.00579	-.00096	-.00012	.00003	.00008	.01199	.00001	-.00003	.00014	-.00001	.00345	-.03801
Stddev	.00039	.01003	.00068	.00018	.00000	.00003	.00150	.00005	.00024	.00020	.00000	.00285	.00710
%RSD	188.77	173.28	71.166	143.04	12.938	41.308	12.539	764.31	755.00	138.71	25.785	82.694	18.672
#1	-.00007	-.01288	-.00144	.00000	.00004	.00006	.01093	.00004	.00014	.00028	-.00001	.00547	-.04303
#2	.00049	.00130	-.00048	-.00025	.00003	.00011	.01305	-.00003	-.00020	.00000	-.00001	.00143	-.03299
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	.00419	.00273	.00287	.00006	.00013	.18931	.00034	.00091	F .0076	.00057	.00282	.02856	.00017
Stddev	.00027	.00057	.00197	.00014	.00009	.00240	.00002	.00219	.0005	.00045	.00180	.00068	.00004
%RSD	6.5531	20.990	68.725	233.56	65.757	1.2699	7.0884	241.33	5.974	78.451	63.863	2.3743	22.185
#1	.00438	.00233	.00147	.00015	.00007	.18761	.00036	-.00064	.0079	.00088	.00155	.02808	.00014
#2	.00399	.00314	.00426	-.00004	.00019	.19101	.00032	.00246	.0072	.00025	.00410	.02904	.00019
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	.00013	.00032	-.00010	.00025
Stddev	.00000	.00023	.00040	.00024	.00009
%RSD	18.616	176.50	123.31	232.94	35.243
#1	.00002	.00030	.00004	.00007	.00031
#2	.00003	-.00003	.00060	-.00027	.00019
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	4057.6	7045.3	61667.	9035.4
Stddev	8.0	13.4	228.	26.1
%RSD	.19804	.19068	.36947	.28876
#1	4051.9	7035.8	61828.	9017.0
#2	4063.2	7054.8	61505.	9053.9

Sample Name: 480-30535-A-1-C SD@5 Acquired: 12/21/2012 19:00:01 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	.00024	.04204	-.00092	.03224	.04122	.00003	135.32	.00010	.00226
Stddev	.00100	.01837	.00421	.00052	.00003	.00001	3.64	.00022	.00003
%RSD	410.95	43.708	456.23	1.6154	.06907	40.971	2.6917	217.24	1.3545
#1	.00095	.02905	.00205	.03188	.04124	.00002	132.74	-.00006	.00224
#2	-.00047	.05503	-.00390	.03261	.04120	.00004	137.89	.00026	.00229
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	.00147	.00176	.05199	.39186	.66835	.00331	3.7031	.22188	.00060
Stddev	.00032	.00043	.00479	.01827	.01667	.00080	.0091	.00040	.00024
%RSD	21.412	24.332	9.2073	4.6620	2.4935	24.248	.24684	.18112	39.304
#1	.00125	.00146	.04861	.40478	.65656	.00387	3.6966	.22216	.00077
#2	.00170	.00207	.05538	.37895	.68013	.00274	3.7095	.22159	.00043
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	325.81	.00563	.00227	.2564	.00101	.00153	.29955	.00051	.24878
Stddev	8.34	.00003	.00014	.0008	.00031	.00010	.00654	.00003	.00650
%RSD	2.5605	.55880	5.9885	.3156	30.414	6.4604	2.1848	5.1481	2.6127
#1	319.92	.00565	.00237	.2559	.00123	.00160	.30418	.00049	.24419
#2	331.71	.00561	.00218	.2570	.00079	.00146	.29492	.00053	.25338
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	.00428	-.00099	.00010	.01293
Stddev	.00214	.00074	.00020	.00049
%RSD	49.889	74.539	196.79	3.7788
#1	.00580	-.00151	.00025	.01328
#2	.00277	-.00047	-.00004	.01259
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	3356.5	6504.7	56735.	8843.0
Stddev	7.0	4.5	206.	216.1
%RSD	.20792	.06931	.36289	2.4435
#1	3361.4	6507.9	56589.	8995.7
#2	3351.5	6501.5	56881.	8690.2

Sample Name: 480-30535-A-1-C PDS Acquired: 12/21/2012 19:02:29 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	**1.1307**	**.24426**	**1.1486**	**.16976**	**1.2281**	**.99420**	**649.01**	**1.1064**	**1.1065**
Stddev	.0008	.03116	.0243	.00366	.0055	.00570	12.25	.0202	.0209
%RSD	.06864	12.757	2.1186	2.1571	.45080	.57363	1.8868	1.8220	1.8872
#1	1.1313	.26629	1.1658	.17235	1.2241	.99017	640.35	1.1206	1.1213
#2	1.1302	.22222	1.1314	.16717	1.2320	.99823	657.67	1.0921	1.0917
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	**.99746**	**1.0755**	**.25804**	**2.2275**	**4.8996**	**.00973**	**17.417**	**2.0734**	**1.0137**
Stddev	.00050	.0018	.00478	.0423	.0580	.00032	.047	.0067	.0208
%RSD	.04969	.16459	1.8517	1.8985	1.1832	3.3374	.26880	.32126	2.0482
#1	.99781	1.0768	.25466	2.1976	4.8586	.00950	17.450	2.0781	1.0284
#2	.99711	1.0743	.26142	2.2574	4.9406	.00996	17.384	2.0687	.99903
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	**1661.2**	**1.0830**	**1.0789**	**1.413**	**1.0987**	**1.1195**	**1.5967**	**.00125**	**1.2573**
Stddev	10.9	.0178	.0207	.023	.0198	.0193	.0318	.00013	.0050
%RSD	.65318	1.6453	1.9138	1.614	1.8039	1.7281	1.9884	10.548	.39448
#1	1653.5	1.0956	1.0935	1.429	1.1127	1.1332	1.5743	.00135	1.2538
#2	1668.9	1.0704	1.0643	1.396	1.0847	1.1058	1.6192	.00116	1.2608
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	**.01112**	**.99228**	**1.0320**	**1.1448**
Stddev	.00169	.02431	.0009	.0056
%RSD	15.177	2.4495	.08682	.48625
#1	.00993	1.0095	1.0326	1.1487
#2	.01232	.97510	1.0314	1.1409
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	**2790.9**	**5794.9**	**51088.**	**8495.5**
Stddev	38.4	69.8	159.	64.5
%RSD	1.3770	1.2043	.31141	.75917
#1	2763.8	5745.5	50976.	8541.1
#2	2818.1	5844.2	51201.	8449.9

Sample Name: 480-30535-A-1-D MS Acquired: 12/21/2012 19:05:01 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	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	**1.1034**	**.20891**	**1.1004**	**.16394**	**1.1963**	**.94534**	**641.99**	**1.0697**	**1.0649**
Stddev	.0003	.00241	.0007	.00032	.0049	.01098	.39	.0016	.0024
%RSD	.02628	1.1548	.06076	.19274	.40628	1.1616	.06050	.15074	.22785
#1	1.1036	.20720	1.1009	.16416	1.1928	.93758	641.72	1.0709	1.0666
#2	1.1032	.21061	1.0999	.16371	1.1997	.95311	642.27	1.0686	1.0632
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	**.96100**	**1.0476**	**.22081**	**2.2410**	**4.8702**	**.00842**	**17.265**	**2.0357**	**.98834**
Stddev	.00494	.0016	.00012	.0046	.0156	.00055	.012	.0023	.00340
%RSD	.51362	.15428	.05471	.20458	.32040	6.5329	.06673	.11356	.34367
#1	.96449	1.0488	.22072	2.2378	4.8592	.00881	17.274	2.0373	.99075
#2	.95751	1.0465	.22089	2.2443	4.8813	.00804	17.257	2.0341	.98594
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	**1669.9**	**1.0505**	**1.0352**	**1.400**	**1.0606**	**1.0883**	**1.5023**	**.00011**	**1.2437**
Stddev	8.3	.0026	.0006	.007	.0068	.0017	.0195	.00020	.0082
%RSD	.49988	.24484	.05789	.5214	.64302	.15831	1.2976	188.25	.65911
#1	1664.0	1.0523	1.0356	1.405	1.0654	1.0871	1.5161	.00025	1.2379
#2	1675.8	1.0487	1.0348	1.395	1.0557	1.0895	1.4885	-.00004	1.2495
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	**.01125**	**.93127**	**.99813**	**1.1077**
Stddev	.00092	.00411	.00061	.0023
%RSD	8.1869	.44113	.06105	.20676
#1	.01190	.93417	.99856	1.1061
#2	.01060	.92836	.99770	1.1093
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	**2792.7**	**5807.6**	**51092.**	**8514.1**
Stddev	3.6	9.0	93.	56.0
%RSD	.12803	.15464	.18130	.65721
#1	2795.2	5814.0	51027.	8553.7
#2	2790.2	5801.3	51158.	8474.5

Sample Name: 480-30535-A-1-E MSD Acquired: 12/21/2012 19:07:26 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	**1.1238**	**.19605**	**1.0999**	**.16393**	**1.1895**	**.92808**	**633.88**	**1.0672**	**1.0563**
Stddev	.0130	.01175	.0028	.00021	.0090	.01228	6.24	.0054	.0060
%RSD	1.1568	5.9945	.25675	.12712	.75477	1.3231	.98386	.50331	.56398
#1	1.1330	.20436	1.1019	.16408	1.1959	.93676	638.29	1.0710	1.0605
#2	1.1146	.18774	1.0979	.16378	1.1832	.91939	629.47	1.0634	1.0521
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	**.96196**	**1.0510**	**.20875**	**2.2164**	**4.7700**	**.00941**	**17.566**	**2.0727**	**.98743**
Stddev	.00839	.0059	.00487	.0592	.0591	.00101	.108	.0134	.00509
%RSD	.87211	.56064	2.3327	2.6724	1.2391	10.688	.61638	.64823	.51505
#1	.96789	1.0551	.21219	2.1746	4.8118	.00870	17.643	2.0822	.99103
#2	.95602	1.0468	.20531	2.2583	4.7282	.01013	17.489	2.0632	.98384
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	**1668.7**	**1.0412**	**1.0275**	**1.409**	**1.0590**	**1.0940**	**1.4527**	**.00142**	**1.2268**
Stddev	6.2	.0058	.0023	.003	.0073	.0013	.0033	.00009	.0140
%RSD	.36905	.56038	.22593	.2038	.69401	.12207	.22764	6.0538	1.1438
#1	1673.1	1.0453	1.0291	1.411	1.0642	1.0930	1.4551	.00148	1.2367
#2	1664.4	1.0371	1.0258	1.407	1.0538	1.0949	1.4504	.00136	1.2169
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	**.01328**	**.93078**	**1.0143**	**1.1181**
Stddev	.00239	.00487	.0049	.0026
%RSD	18.014	.52298	.48321	.23612
#1	.01159	.93422	1.0178	1.1200
#2	.01497	.92734	1.0108	1.1163
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	**2803.4**	**5815.9**	**50740.**	**8622.7**
Stddev	5.3	4.9	180.	68.7
%RSD	.18793	.08509	.35441	.79708
#1	2799.7	5812.4	50613.	8574.1
#2	2807.2	5819.4	50867.	8671.3

Sample Name: LB2 480-96873/1-B Acquired: 12/21/2012 19:09:52 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	**.00089**	**.05202**	**-.00278**	F **.07578**	F **.03200**	**.00020**	F **1.2306**	**.00008**	**.00000**
Stddev	.00002	.02351	.00114	.00010	.00017	.00007	.0282	.00019	.0001
%RSD	2.0182	45.205	41.016	.13170	.54077	34.706	2.2899	246.60	3317.8
#1	.00090	.03539	-.00198	.07585	.03188	.00015	1.2505	.00021	.00005
#2	.00088	.06864	-.00359	.07571	.03212	.00025	1.2106	-.00006	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.02000	.00200		.50000		
Low Limit				-.00800	-.00300		-.05000		

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	**.00172**	F **.01315**	F **.15207**	**.08434**	**.07871**	**.00271**	**.12365**	**.00148**	**.00054**
Stddev	.00025	.00011	.00332	.00545	.00048	.00017	.00016	.00007	.00018
%RSD	14.648	.81553	2.1859	6.4677	.61264	6.2045	.13078	4.7340	33.886
#1	.00154	.01323	.15442	.08048	.07905	.00259	.12376	.00153	.00067
#2	.00189	.01308	.14971	.08820	.07836	.00283	.12353	.00143	.00041
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.01000	.05000						
Low Limit		-.00400	-.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	F **8.8334**	**.00133**	**.00149**	F **.0183**	**.00280**	**.00153**	**.08584**	**.00073**	**.00258**
Stddev	.1101	.00010	.00002	.0006	.00104	.00152	.04223	.00020	.00002
%RSD	1.2461	7.7458	1.3690	3.130	37.183	99.004	49.195	27.101	.68021
#1	8.9113	.00140	.00147	.0179	.00207	.00046	.11570	.00087	.00257
#2	8.7556	.00126	.00150	.0187	.00354	.00261	.05598	.00059	.00260
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000			.0030					
Low Limit	-.50000			-.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	**.00073**	**.00058**	**.00014**	F **.06218**
Stddev	.00026	.00014	.00079	.00012
%RSD	36.012	23.362	572.31	.18784
#1	.00092	.00068	-.00042	.06227
#2	.00055	.00049	.00070	.06210
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	**4030.0**	**7033.3**	**62688.**	**9056.8**
Stddev	8.5	18.4	169.	20.3
%RSD	.21170	.26151	.26971	.22370
#1	4024.0	7020.3	62808.	9042.5
#2	4036.1	7046.3	62569.	9071.2

Sample Name: MB 480-97060/2-A Acquired: 12/21/2012 19:12:10 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	.00038	.00605	-.00047	-.00087	.00002	.00010	.01522	-.00010	-.00003
Stddev	.00087	.00784	.00046	.00034	.00002	.00002	.00544	.00008	.00000
%RSD	225.62	129.58	98.328	39.528	80.974	22.273	35.738	80.677	6.3171
#1	.00100	.01159	-.00080	-.00111	.00001	.00011	.01907	-.00016	-.00003
#2	-.00023	.00051	-.00014	-.00063	.00004	.00008	.01138	-.00004	-.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	.00010	.00023	.00109	-.01059	.00177	.00269	.00640	.00031	.00008
Stddev	.00025	.00047	.00601	.01312	.00023	.00030	.00224	.00000	.00020
%RSD	246.47	208.04	552.16	123.91	12.939	11.096	34.949	.27877	239.03
#1	-.00008	-.00011	-.00316	-.00131	.00161	.00290	.00482	.00031	-.00006
#2	.00028	.00056	.00534	-.01987	.00193	.00247	.00798	.00031	.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	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	.21405	-.00006	-.00085	-.0015	.00102	-.00130	-.01003	.00001	.00002
Stddev	.00700	.00005	.00120	.0005	.00083	.00083	.00463	.00015	.00005
%RSD	3.2722	77.454	140.73	31.75	81.241	63.781	46.119	1090.5	228.51
#1	.20910	-.00003	.00000	-.0018	.00043	-.00189	-.00676	-.00010	.00006
#2	.21900	-.00009	-.00170	-.0012	.00160	-.00071	-.01330	.00012	-.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	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	.00006	-.00106	.00015	.00029
Stddev	.00050	.00075	.00023	.00023
%RSD	800.53	70.935	154.01	80.594
#1	.00041	-.00160	-.00001	.00045
#2	-.00029	-.00053	.00031	.00012
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	4066.2	7110.8	63319.	8981.0
Stddev	11.4	.4	1922.	131.2
%RSD	.28153	.00532	3.0350	1.4607
#1	4058.1	7110.5	64678.	9073.8
#2	4074.3	7111.0	61960.	8888.2

Sample Name: LCS 480-97060/3-A Acquired: 12/21/2012 19:14:27 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	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	**1.0314**	**.05257**	**.99694**	**.07431**	**1.0491**	**1.0127**	**1.1001**	**.99888**	**.99075**
Stddev	.0039	.01293	.01304	.00107	.0085	.0068	.0029	.01513	.01383
%RSD	.37551	24.605	1.3075	1.4390	.80740	.67056	.26246	1.5144	1.3958
#1	1.0287	.04342	1.0062	.07507	1.0551	1.0175	1.1021	1.0096	1.0005
#2	1.0342	.06171	.98773	.07356	1.0431	1.0079	1.0981	.98818	.98097
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass	None	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	**1.0265**	**1.0391**	**.15201**	**.04011**	**.07658**	**.00290**	**.09781**	**1.0357**	**1.0297**
Stddev	.0009	.0014	.00196	.00034	.00012	.00008	.00284	.0004	.0163
%RSD	.08736	.13295	1.2878	.84484	.15386	2.8753	2.9064	.03627	1.5847
#1	1.0258	1.0381	.15339	.03987	.07666	.00296	.09982	1.0360	1.0413
#2	1.0271	1.0400	.15063	.04035	.07649	.00284	.09580	1.0354	1.0182
Check ?	Chk Pass	Chk Pass	None	None	None	None	None	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	**8.3363**	**.97600**	**.98888**	F **.0115**	**1.0081**	**.97868**	**.06245**	**.00064**	**.00244**
Stddev	.0581	.01600	.01258	.0017	.0141	.01444	.00991	.00006	.00009
%RSD	.69680	1.6390	1.2717	14.63	1.4017	1.4760	15.867	10.018	3.7901
#1	8.3774	.98732	.99777	.0127	1.0181	.98889	.06946	.00069	.00238
#2	8.2952	.96469	.97999	.0103	.99810	.96846	.05544	.00060	.00251
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	None	None
High Limit				1.200					
Low Limit				.8000					

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	**.00167**	**.98427**	**1.0238**	**1.1577**
Stddev	.00021	.01768	.0011	.0007
%RSD	12.385	1.7967	.10607	.05792
#1	.00181	.99678	1.0230	1.1572
#2	.00152	.97177	1.0246	1.1581
Check ?	None	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	**3988.4**	**7018.0**	**61899.**	**9031.7**
Stddev	39.9	72.9	140.	69.1
%RSD	1.0005	1.0382	.22635	.76455
#1	3960.1	6966.5	61998.	8982.9
#2	4016.6	7069.5	61800.	9080.5

Sample Name: 480-30475-A-1-B Acquired: 12/21/2012 19:16:38 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	**-.00030**	**.66060**	**.00233**	**1.5656**	**.25132**	**-.00006**	**866.10**	**.00023**	**.00357**
Stddev	.00050	.00743	.00273	.0210	.00061	.00008	9.14	.00009	.00010
%RSD	166.49	1.1250	117.23	1.3392	.24378	141.95	1.0547	36.218	2.8115
#1	.00005	.65535	.00426	1.5804	.25088	.00000	872.56	.00030	.00364
#2	-.00065	.66586	.00040	1.5508	.25175	-.00012	859.64	.00017	.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	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	**.00306**	**.02350**	**.03227**	**1.2746**	**2.1239**	**.02021**	**26.959**	**3.1127**	**.00125**
Stddev	.00029	.00049	.00167	.0420	.0069	.00004	.046	.0074	.00025
%RSD	9.4218	2.0904	5.1658	3.2920	.32288	.21561	.17048	.23680	20.172
#1	.00285	.02316	.03109	1.2449	2.1191	.02018	26.926	3.1075	.00108
#2	.00326	.02385	.03344	1.3043	2.1288	.02024	26.991	3.1179	.00143
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	**78.302**	**.04459**	**.00163**	**3.778**	**.00111**	**.00798**	**5.1772**	**.00052**	**1.5552**
Stddev	.206	.00098	.00107	.050	.00063	.00207	.0113	.00010	.0008
%RSD	.26294	2.1976	65.531	1.331	56.262	25.887	.21795	19.278	.05398
#1	78.156	.04529	.00087	3.814	.00067	.00652	5.1852	.00045	1.5546
#2	78.447	.04390	.00238	3.743	.00156	.00944	5.1692	.00059	1.5558
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	**.00493**	**.00202**	**.00061**	**.02048**
Stddev	.00013	.00054	.00021	.00049
%RSD	2.7338	26.599	34.300	2.3825
#1	.00503	.00240	.00046	.02013
#2	.00484	.00164	.00075	.02082
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	**3136.1**	**6144.9**	**54304.**	**8704.7**
Stddev	33.5	70.7	58.	3.2
%RSD	1.0689	1.1512	.10692	.03671
#1	3112.4	6094.8	54345.	8702.4
#2	3159.8	6194.9	54262.	8706.9

Sample Name: 480-30485-A-3-B Acquired: 12/21/2012 19:18:54 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	.00044	.12036	-.00026	.30841	.04936	.00000	182.70	.00005	.00051
Stddev	.00030	.01872	.00188	.00040	.00000	.00002	8.01	.00029	.00016
%RSD	68.877	15.553	731.24	.13014	.00652	477.18	4.3856	567.03	30.850
#1	.00022	.10713	.00107	.30812	.04936	-.00001	177.03	-.00015	.00062
#2	.00065	.13360	-.00158	.30869	.04936	.00002	188.36	.00025	.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	.00149	.00476	.00704	.19908	.29877	.00502	5.4140	.62022	.00022
Stddev	.00052	.00022	.00374	.03329	.00964	.00138	.0030	.00082	.00014
%RSD	35.066	4.5174	53.021	16.724	3.2261	27.532	.05550	.13191	63.286
#1	.00186	.00491	.00969	.22262	.29195	.00405	5.4162	.61964	.00012
#2	.00112	.00461	.00440	.17554	.30558	.00600	5.4119	.62080	.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	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	15.614	.00906	.00032	.6944	.00190	.00044	.98700	.00024	.31235
Stddev	.671	.00055	.00041	.0001	.00074	.00073	.03314	.00011	.01442
%RSD	4.2966	6.0968	127.16	.0127	38.742	166.59	3.3573	46.387	4.6159
#1	15.140	.00946	.00003	.6943	.00242	-.00008	.96357	.00032	.30216
#2	16.089	.00867	.00061	.6944	.00138	.00095	1.0104	.00016	.32255
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	.00123	-.00047	.00028	.00425
Stddev	.00022	.00022	.00027	.00035
%RSD	17.988	47.141	97.237	8.2416
#1	.00107	-.00032	.00047	.00450
#2	.00139	-.00063	.00009	.00400
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	3647.5	6746.0	59640.	8942.6
Stddev	9.1	12.6	9.	244.7
%RSD	.24812	.18687	.01426	2.7366
#1	3641.1	6737.1	59646.	9115.7
#2	3653.9	6754.9	59634.	8769.6

Sample Name: 480-30485-A-3-B SD@5 Acquired: 12/21/2012 19:21:03 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	**1.0681**	**.69575**	**1.1411**	**1.5758**	**1.3139**	**1.0475**	**904.18**	**1.0887**	**1.0858**
Stddev	.0087	.01579	.0074	.0054	.0019	.0018	1.57	.0028	.0062
%RSD	.81362	2.2693	.64542	.34304	.14295	.17587	.17389	.25722	.57016
#1	1.0619	.70692	1.1464	1.5796	1.3152	1.0462	903.07	1.0907	1.0902
#2	1.0742	.68459	1.1359	1.5719	1.3126	1.0488	905.29	1.0867	1.0814
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	**.99499**	**1.0691**	**.03746**	**1.3280**	**2.1920**	**.02082**	**25.665**	**3.9407**	**1.0485**
Stddev	.00640	.0134	.00456	.0227	.0261	.00012	.225	.0341	.0031
%RSD	.64365	1.2489	12.179	1.7104	1.1894	.59513	.87621	.86562	.29763
#1	.99047	1.0597	.04068	1.3119	2.1736	.02090	25.506	3.9166	1.0507
#2	.99952	1.0786	.03423	1.3440	2.2105	.02073	25.824	3.9648	1.0463
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	**78.589**	**1.0996**	**1.0709**	**3.770**	**1.1115**	**1.1082**	**5.3187**	**.00054**	**1.6247**
Stddev	.474	.0034	.0057	.005	.0014	.0004	.0134	.00021	.0013
%RSD	.60261	.30660	.52995	.1211	.12457	.03952	.25220	39.551	.07882
#1	78.924	1.1020	1.0749	3.767	1.1124	1.1079	5.3092	.00039	1.6257
#2	78.254	1.0972	1.0669	3.773	1.1105	1.1085	5.3282	.00069	1.6238
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	**.00529**	**1.0259**	**1.0218**	**1.0680**
Stddev	.00015	.0040	.0111	.0096
%RSD	2.8153	.38651	1.0904	.90027
#1	.00519	1.0231	1.0139	1.0612
#2	.00540	1.0287	1.0297	1.0748
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	**3171.4**	**6240.5**	**56895.**	**8561.9**
Stddev	2.7	.9	391.	9.1
%RSD	.08419	.01374	.68747	.10686
#1	3169.5	6239.9	57171.	8568.4
#2	3173.3	6241.1	56618.	8555.4

Sample Name: CCV Acquired: 12/21/2012 19:23:13 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	.49811	24.596	.50545	.49363	.51233	.50307	25.375	.49507	.49778	.50150	.49655	24.128	25.517
Stddev	.00196	.079	.00064	.00082	.00041	.00020	.012	.00013	.00065	.00225	.00095	.012	.021
%RSD	.39342	.32101	.12645	.16607	.08018	.04041	.04883	.02667	.13065	.44951	.19048	.04873	.08161
#1	.49672	24.540	.50500	.49305	.51204	.50292	25.384	.49517	.49732	.50310	.49722	24.136	25.502
#2	.49949	24.652	.50590	.49421	.51262	.50321	25.366	.49498	.49824	.49991	.49588	24.119	25.532
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	25.661	.51282	24.335	.50266	.50092	25.781	.50278	.50580	24.75	.50796	.50447	24.647	.52419
Stddev	.093	.00147	.040	.00051	.00023	.021	.00091	.00406	.05	.00067	.00498	.047	.00148
%RSD	.36196	.28665	.16414	.10069	.04593	.07993	.18078	.80303	.2125	.13123	.98634	.19157	.28246
#1	25.727	.51178	24.363	.50302	.50108	25.766	.50213	.50292	24.71	.50749	.50096	24.614	.52314
#2	25.595	.51386	24.306	.50231	.50076	25.795	.50342	.50867	24.78	.50843	.50799	24.681	.52524
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	.50834	.50750	.50461	.49876	.51172
Stddev	.00136	.00069	.00404	.00231	.00014
%RSD	.26718	.13603	.80080	.46288	.02713
#1	.50930	.50799	.50175	.50039	.51182
#2	.50738	.50701	.50746	.49712	.51163
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	3722.1	6939.0	61629.	8811.7
Stddev	8.4	15.4	82.	27.4
%RSD	.22538	.22135	.13355	.31069
#1	3716.2	6928.2	61571.	8792.3
#2	3728.1	6949.9	61688.	8831.0

Sample Name: CCB Acquired: 12/21/2012 19:25:20 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	.00033	.01379	.00075	.00167	.00002	.00007	.01988	-.00006	.00009	.00034	.00034	.00228	-.05361
Stddev	.00117	.01460	.00262	.00040	.00000	.00004	.00052	.00006	.00006	.00015	.00042	.00151	.02652
%RSD	356.16	105.90	347.87	23.979	20.214	61.797	2.6395	94.943	68.461	42.375	123.36	66.210	49.470
#1	.00115	.02412	.00261	.00195	.00002	.00010	.02025	-.00011	.00004	.00024	.00063	.00121	-.03486
#2	-.00050	.00346	-.00110	.00139	.00002	.00004	.01951	-.00002	.00013	.00045	.00004	.00335	-.07237
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	.00329	.00182	.00627	.00008	.00006	.10472	.00001	.00085	.0007	.00187	.00123	.00457	.00020
Stddev	.00075	.00039	.00041	.00003	.00023	.01131	.00041	.00032	.0014	.00086	.00350	.00186	.00029
%RSD	22.826	21.712	6.5321	35.722	401.75	10.797	2985.2	37.786	197.0	46.159	284.74	40.844	149.19
#1	.00383	.00154	.00598	.00010	.00022	.09673	.00030	.00062	-.0003	.00126	.00370	.00325	-.00001
#2	.00276	.00210	.00656	.00006	-.00010	.11272	-.00027	.00107	.0018	.00248	-.00124	.00588	.00041
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	.00040	.00023	.00011	.00075
Stddev	.00002	.00017	.00186	.00004	.00028
%RSD	33.979	41.443	807.81	32.614	37.694
#1	.00004	.00052	.00155	.00013	.00096
#2	.00007	.00028	-.00109	.00008	.00055
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	4114.7	7206.0	63775.	8882.0
Stddev	4.7	19.8	338.	55.8
%RSD	.11406	.27490	.52928	.62779
#1	4111.3	7192.0	63536.	8842.5
#2	4118.0	7220.0	64013.	8921.4

Sample Name: 480-30485-A-3-B PDS Acquired: 12/21/2012 19:27:31 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	**1.0552**	**.08431**	**1.1152**	**.43455**	**1.4011**	**1.0353**	F **1006.1**	**1.0580**	**1.0696**
Stddev	.0663	.01471	.0007	.00023	.0010	.0014	7.4	.0010	.0006
%RSD	6.2845	17.448	.06037	.05322	.06911	.13484	.73453	.09772	.05397
#1	1.0083	.09471	1.1147	.43471	1.4004	1.0363	1000.8	1.0588	1.0700
#2	1.1021	.07391	1.1157	.43438	1.4018	1.0343	1011.3	1.0573	1.0692
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit							1000.0		
Low Limit							-.50000		

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	**.99672**	**1.0726**	**.49743**	**26.355**	**35.977**	**.03337**	**29.340**	**5.4741**	**1.0265**
Stddev	.06032	.0665	.00065	.063	.036	.00021	1.762	.3294	.0013
%RSD	6.0519	6.2042	.13075	.23752	.09912	.61748	6.0042	6.0176	.12573
#1	.95406	1.0256	.49789	26.400	36.002	.03352	28.094	5.2412	1.0275
#2	1.0394	1.1197	.49697	26.311	35.952	.03323	30.585	5.7071	1.0256
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	**18.516**	**1.0867**	**1.0751**	F **37.53**	**1.0633**	**1.0959**	**34.101**	**.00030**	**1.4522**
Stddev	.025	.0024	.0022	.09	.0029	.0014	.664	.00041	.0010
%RSD	.13749	.22307	.19958	.2279	.27474	.13116	1.9474	140.49	.06600
#1	18.534	1.0850	1.0735	37.59	1.0654	1.0969	34.570	.00000	1.4516
#2	18.498	1.0884	1.0766	37.47	1.0613	1.0948	33.631	.00059	1.4529
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	**.00998**	**.96071**	**1.0056**	**2.8185**
Stddev	.00111	.00470	.0614	.1763
%RSD	11.102	.48933	6.1026	6.2548
#1	.00920	.96404	.96219	2.6938
#2	.01076	.95739	1.0490	2.9431
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	**3209.6**	**6273.1**	**56424.**	**8717.9**
Stddev	8.9	19.1	2765.	31.5
%RSD	.27657	.30508	4.9004	.36180
#1	3203.4	6259.6	58379.	8740.2
#2	3215.9	6286.6	54469.	8695.6

Sample Name: 480-30485-A-3-C MS Acquired: 12/21/2012 19:29:42 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	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	**1.0230**	**.09637**	**1.1301**	**.44384**	**1.4312**	**1.0641**	F **1034.7**	**1.0709**	**1.0878**
Stddev	.0008	.00623	.0259	.00615	.0083	.0045	4.6	.0174	.0164
%RSD	.07593	6.4628	2.2909	1.3848	.58220	.42569	.44482	1.6213	1.5072
#1	1.0236	.10078	1.1484	.44819	1.4253	1.0609	1031.4	1.0832	1.0994
#2	1.0225	.09197	1.1118	.43950	1.4371	1.0673	1037.9	1.0586	1.0762
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit							1000.0		
Low Limit							-.50000		

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	**.97509**	**1.0527**	**.51275**	**27.033**	**36.732**	**.03385**	**28.687**	**5.3604**	**1.0396**
Stddev	.00332	.0018	.00244	.114	.199	.00028	.027	.0088	.0171
%RSD	.34070	.17484	.47506	.42289	.54270	.82844	.09461	.16473	1.6451
#1	.97744	1.0514	.51447	26.952	36.873	.03365	28.706	5.3667	1.0517
#2	.97274	1.0540	.51102	27.114	36.591	.03405	28.668	5.3542	1.0275
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	**18.865**	**1.1016**	**1.0867**	F **38.03**	**1.1074**	**1.1311**	**38.774**	**.00093**	**1.4917**
Stddev	.003	.0165	.0138	.56	.0162	.0151	.118	.00028	.0072
%RSD	.01425	1.4988	1.2709	1.473	1.4580	1.3326	.30350	29.467	.48360
#1	18.863	1.1132	1.0964	38.42	1.1188	1.1417	38.691	.00113	1.4866
#2	18.866	1.0899	1.0769	37.63	1.0959	1.1204	38.857	.00074	1.4968
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	**.00956**	**.97143**	**.98318**	**2.7610**
Stddev	.00070	.01651	.00233	.0019
%RSD	7.2863	1.6991	.23724	.06838
#1	.00906	.98310	.98483	2.7624
#2	.01005	.95976	.98154	2.7597
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	**3203.5**	**6238.1**	**57616.**	**8580.8**
Stddev	35.9	72.3	135.	13.9
%RSD	1.1196	1.1597	.23510	.16146
#1	3178.1	6186.9	57520.	8590.6
#2	3228.8	6289.2	57712.	8571.0

Sample Name: 480-30485-A-3-D MSD Acquired: 12/21/2012 19:31:55 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	**.00040**	**.08866**	**.00586**	**.43363**	**.32651**	**.00006**	F **1023.2**	**.00054**	**.02186**
Stddev	.00005	.00111	.00158	.00057	.00214	.00006	15.2	.00017	.00021
%RSD	12.198	1.2496	26.974	.13158	.65477	103.73	1.4898	30.892	.94428
#1	.00044	.08787	.00697	.43403	.32500	.00011	1012.4	.00065	.02200
#2	.00037	.08944	.00474	.43322	.32803	.00002	1034.0	.00042	.02171
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit							1000.0		
Low Limit							-.50000		

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	**.00329**	**.00914**	**.51848**	**26.822**	**36.285**	**.03497**	**27.731**	**4.2878**	**.02070**
Stddev	.00013	.00010	.00239	.154	.240	.00024	.134	.0256	.00010
%RSD	3.9112	1.0684	.46175	.57390	.66218	.67995	.48287	.59711	.47759
#1	.00320	.00921	.51679	26.713	36.116	.03480	27.636	4.2697	.02077
#2	.00338	.00907	.52017	26.930	36.455	.03514	27.826	4.3059	.02064
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	**18.559**	**.06084**	**.03581**	F **37.29**	**.00893**	**.00791**	**33.371**	**.00002**	**1.4760**
Stddev	.048	.00041	.00017	.10	.00113	.00199	1.185	.00036	.0046
%RSD	.25751	.67570	.46995	.2682	12.672	25.101	3.5508	1976.7	.30980
#1	18.525	.06113	.03592	37.36	.00973	.00932	34.209	-.00024	1.4728
#2	18.593	.06055	.03569	37.22	.00813	.00651	32.533	.00027	1.4792
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	**.00864**	**.00535**	**.00705**	**1.7041**
Stddev	.00111	.00116	.00006	.0091
%RSD	12.890	21.604	.83718	.53336
#1	.00943	.00617	.00701	1.6977
#2	.00785	.00454	.00709	1.7105
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	**3242.6**	**6314.5**	**58860.**	**8616.0**
Stddev	5.2	2.3	229.	29.0
%RSD	.16131	.03639	.38972	.33671
#1	3238.9	6316.2	59022.	8636.5
#2	3246.3	6312.9	58698.	8595.5

Sample Name: MB 480-97077/1-A Acquired: 12/21/2012 19:34:19 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	**.00002**	**.00315**	**-.00142**	**.00160**	**.00031**	**.00005**	**.26391**	**.00003**	**-.00005**
Stddev	.00039	.00129	.00085	.00022	.00001	.00005	.02376	.00003	.00018
%RSD	1667.6	40.901	59.876	13.732	2.8630	100.17	9.0040	86.825	399.39
#1	-.00025	.00224	-.00082	.00145	.00032	.00008	.28072	.00006	-.00017
#2	.00030	.00406	-.00202	.00176	.00031	.00001	.24711	.00001	.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	**.00202**	**.00126**	F **.05750**	**-.00727**	**.01386**	**.00258**	**.00687**	**.00132**	**.00028**
Stddev	.00046	.00004	.00111	.00851	.00020	.00020	.00491	.00008	.00025
%RSD	22.665	3.5015	1.9247	117.11	1.4490	7.7873	71.530	6.2154	88.292
#1	.00170	.00123	.05828	-.01329	.01372	.00272	.01034	.00138	.00010
#2	.00235	.00129	.05671	-.00125	.01400	.00244	.00339	.00127	.00045
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	**.09165**	**.00037**	**-.00054**	F **.0196**	**.00098**	**.00329**	F **1.5005**	**.00055**	**.00024**
Stddev	.00907	.00032	.00005	.0023	.00055	.00032	.0212	.00004	.00013
%RSD	9.8933	86.399	8.8350	11.73	55.781	9.7832	1.4142	8.0408	54.252
#1	.08524	.00014	-.00051	.0180	.00059	.00306	1.5155	.00058	.00033
#2	.09806	.00060	-.00058	.0212	.00137	.00351	1.4855	.00052	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.0030			.50000		
Low Limit				-.0040			-.50000		

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**	**-.00148**	**-.00005**	**.00221**
Stddev	.00006	.00025	.00011	.00024
%RSD	12.198	16.969	199.81	10.653
#1	.00054	-.00130	.00002	.00237
#2	.00045	-.00166	-.00013	.00204
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	**4083.6**	**7116.4**	**65007.**	**8748.4**
Stddev	2.9	15.9	93.	23.5
%RSD	.07004	.22411	.14317	.26910
#1	4081.6	7127.7	64941.	8731.7
#2	4085.6	7105.1	65073.	8765.0

Sample Name: LCSSRM 480-97077/2-A Acquired: 12/21/2012 19:36:54 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	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	.31565	72.175	.94157	1.0784	1.6478	.55595	63.634	.58887	1.0783
Stddev	.00077	.616	.00299	.0003	.0144	.01026	.515	.00073	.0001
%RSD	.24341	.85328	.31713	.02290	.87061	1.8448	.80996	.12404	.01045
#1	.31511	72.610	.94369	1.0782	1.6579	.56320	63.999	.58835	1.0783
#2	.31619	71.739	.93946	1.0786	1.6376	.54870	63.270	.58939	1.0784
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	.65193	.77931	106.58	38.136	36.079	.07753	26.725	2.6212	.42498
Stddev	.00392	.00553	1.50	.543	.369	.00133	.161	.0186	.00045
%RSD	.60169	.70978	1.4091	1.4231	1.0236	1.7197	.60170	.70878	.10481
#1	.64915	.77540	107.65	38.520	36.340	.07847	26.611	2.6081	.42530
#2	.65470	.78322	105.52	37.752	35.818	.07659	26.839	2.6344	.42467
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	6.9719	.60184	.95283	2.260	.76246	1.6466	19.738	.99852	.68284
Stddev	.1410	.00028	.00094	.006	.00075	.0084	.412	.00110	.00994
%RSD	2.0227	.04714	.09873	.2824	.09788	.51265	2.0883	.10987	1.4550
#1	7.0717	.60164	.95217	2.255	.76299	1.6406	20.030	.99774	.68987
#2	6.8722	.60204	.95350	2.264	.76193	1.6525	19.447	.99929	.67582
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	2.3006	1.2318	.49595	1.3197
Stddev	.0145	.0003	.00564	.0136
%RSD	.63221	.02414	1.1363	1.0289
#1	2.2903	1.2320	.49196	1.3101
#2	2.3109	1.2316	.49993	1.3293
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	3620.4	7086.2	64612.	9042.3
Stddev	6.1	7.4	221.	122.5
%RSD	.16883	.10426	.34272	1.3552
#1	3624.8	7091.4	64769.	8955.7
#2	3616.1	7080.9	64456.	9129.0

Sample Name: LCDSRM 480-97077/3-A Acquired: 12/21/2012 19:39:20 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	**.29613**	**69.165**	**.88337**	**1.0145**	**1.5396**	**.52106**	**58.190**	**.55848**	**1.0127**
Stddev	.00042	.279	.00056	.0035	.0074	.00085	.306	.00142	.0037
%RSD	.14164	.40337	.06366	.34253	.47914	.16269	.52560	.25428	.36400
#1	.29643	68.967	.88297	1.0120	1.5343	.52046	57.974	.55747	1.0100
#2	.29584	69.362	.88377	1.0169	1.5448	.52166	58.407	.55948	1.0153
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	**.60697**	**.74423**	**104.00**	**35.795**	**33.676**	**.07219**	**24.990**	**2.6496**	**.40071**
Stddev	.00405	.00675	.07	.159	.069	.00131	.144	.0153	.00061
%RSD	.66797	.90655	.06416	.44427	.20449	1.8084	.57499	.57782	.15128
#1	.60983	.74900	103.95	35.683	33.725	.07126	25.092	2.6604	.40028
#2	.60410	.73946	104.05	35.907	33.628	.07311	24.889	2.6387	.40114
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	**6.3183**	**.56684**	**.90386**	**2.166**	**.73773**	**1.5421**	**19.249**	**.92935**	**.62915**
Stddev	.0106	.00156	.00097	.009	.00100	.0033	.036	.00205	.00283
%RSD	.16793	.27508	.10732	.3967	.13610	.21146	.18723	.22039	.44987
#1	6.3108	.56573	.90318	2.160	.73702	1.5398	19.223	.92790	.62715
#2	6.3258	.56794	.90455	2.172	.73844	1.5444	19.274	.93079	.63116
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	**2.1162**	**1.1458**	**.47313**	**1.2168**
Stddev	.0294	.0021	.00464	.0076
%RSD	1.3900	.17854	.98114	.62642
#1	2.1370	1.1444	.47641	1.2222
#2	2.0954	1.1473	.46985	1.2114
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	**3629.3**	**7055.1**	**64893.**	**8987.7**
Stddev	8.1	15.9	305.	26.7
%RSD	.22334	.22487	.47040	.29686
#1	3635.0	7066.3	64677.	9006.6
#2	3623.6	7043.9	65108.	8968.8

Sample Name: 480-29598-D-7-D Acquired: 12/21/2012 19:41:35 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	.00275	38.976	F -.39919	.00598	.19969	.00336	7.1261	.00175	.00150
Stddev	.00034	.227	.00490	.00005	.00025	.00003	.0411	.00005	.00011
%RSD	12.263	.58134	1.2269	.86884	.12362	.97767	.57740	2.8492	7.3102
#1	.00251	38.815	-.39573	.00594	.19952	.00338	7.0970	.00172	.00158
#2	.00299	39.136	-.40266	.00602	.19987	.00333	7.1552	.00179	.00143
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			40.000						
Low Limit			-.01000						

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	F 92.138	.26496	41.371	.79105	.73807	.01668	1.9292	.19101	.01975
Stddev	.067	.00088	.484	.02040	.00794	.00075	.0132	.00040	.00000
%RSD	.07242	.33382	1.1711	2.5784	1.0754	4.4954	.68627	.20878	.00853
#1	92.185	.26433	41.029	.77663	.73246	.01721	1.9198	.19073	.01975
#2	92.091	.26558	41.714	.80547	.74368	.01615	1.9385	.19130	.01975
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	40.000								
Low Limit	-.00400								

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	.94636	.04285	.38360	F 15.99	F -.32128	.00896	11.289	.01875	.04107
Stddev	.01771	.00066	.00236	.03	.00218	.00354	.091	.00022	.00014
%RSD	1.8714	1.5435	.61464	.1763	.67946	39.552	.80309	1.1771	.33843
#1	.93384	.04332	.38527	16.01	-.31973	.00645	11.224	.01860	.04097
#2	.95888	.04238	.38193	15.97	-.32282	.01146	11.353	.01891	.04116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00	50.000				
Low Limit				-.0100	-.02000				

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	.76798	.02669	.40140	.03923
Stddev	.00330	.00269	.00081	.00044
%RSD	.42932	10.086	.20134	1.1160
#1	.76565	.02860	.40197	.03892
#2	.77032	.02479	.40083	.03954
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	3889.1	7110.7	66886.	9362.0
Stddev	17.5	27.0	73.	71.4
%RSD	.44875	.37906	.10881	.76255
#1	3876.8	7091.7	66938.	9412.5
#2	3901.5	7129.8	66835.	9311.5

Sample Name: 480-29598-B-8-E Acquired: 12/21/2012 19:43:53 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	**.00098**	**24.048**	F **-.05297**	**.00320**	**.15193**	**.00194**	**7.9387**	**.00133**	**.01200**
Stddev	.00076	.173	.00283	.00021	.00011	.00007	.0357	.00021	.00010
%RSD	78.372	.71773	5.3431	6.5336	.07202	3.3643	.45032	15.511	.84931
#1	.00152	23.926	-.05097	.00334	.15201	.00198	7.9134	.00148	.01193
#2	.00043	24.170	-.05498	.00305	.15185	.00189	7.9639	.00118	.01207
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			40.000						
Low Limit			-.01000						

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	**26.962**	**.09352**	**16.226**	**.90799**	**.83165**	**.02711**	**2.6449**	**.23377**	**.00769**
Stddev	.049	.00018	.076	.02475	.00096	.00137	.0008	.00002	.00008
%RSD	.18135	.19646	.47086	2.7262	.11590	5.0668	.03054	.01014	1.0280
#1	26.928	.09339	16.172	.89049	.83097	.02808	2.6455	.23379	.00763
#2	26.997	.09365	16.280	.92549	.83233	.02613	2.6443	.23376	.00774
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	**.85909**	**.02814**	**.14748**	F **11.66**	F **-.12940**	**.00760**	**11.926**	**.00902**	**.04165**
Stddev	.01461	.00014	.00292	.05	.00193	.00079	.023	.00012	.00001
%RSD	1.7009	.51517	1.9779	.4140	1.4934	10.345	.19479	1.3806	.01930
#1	.86943	.02825	.14954	11.62	-.13077	.00816	11.910	.00911	.04164
#2	.84876	.02804	.14541	11.69	-.12804	.00704	11.943	.00893	.04165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00	50.000				
Low Limit				-.0100	-.02000				

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	**.67235**	**.00599**	**.11356**	**.07587**
Stddev	.00461	.00292	.00026	.00002
%RSD	.68595	48.769	.22774	.02302
#1	.67561	.00392	.11337	.07585
#2	.66909	.00805	.11374	.07588
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	**3947.6**	**7084.2**	**64816.**	**9213.5**
Stddev	11.2	10.9	50.	18.7
%RSD	.28466	.15409	.07785	.20331
#1	3955.5	7091.9	64851.	9226.7
#2	3939.6	7076.5	64780.	9200.2

Sample Name: 480-29598-B-8-E SD@5 Acquired: 12/21/2012 19:46:03 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	Ba4554-2	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	.00068	4.9705	-.00797	.00078	.03134	.00047	1.6523	.00013	.00235
Stddev	.00064	.0423	.00139	.00015	.00009	.00009	.0097	.00002	.00024
%RSD	93.797	.85019	17.404	18.987	.29338	19.006	.58906	18.195	10.021
#1	.00023	4.9406	-.00895	.00089	.03128	.00041	1.6454	.00011	.00251
#2	.00114	5.0004	-.00699	.00068	.03141	.00053	1.6592	.00014	.00218
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	5.6697	.01929	3.3828	.11216	.15546	.00678	.55878	.04845	.00171
Stddev	.0235	.00009	.0117	.00892	.00272	.00010	.01395	.00037	.00027
%RSD	.41501	.48683	.34611	7.9493	1.7498	1.4713	2.4964	.76463	16.090
#1	5.6531	.01922	3.3911	.10586	.15354	.00685	.54891	.04819	.00151
#2	5.6864	.01936	3.3745	.11847	.15739	.00671	.56864	.04871	.00190
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	.17088	.00533	.02969	2.384	F -.02880	.00254	2.4820	.00196	.00852
Stddev	.00227	.00026	.00016	.004	.00308	.00054	.0170	.00007	.00003
%RSD	1.3310	4.7910	.55518	.1796	10.692	21.176	.68427	3.6389	.34483
#1	.16927	.00515	.02957	2.381	-.03098	.00216	2.4940	.00201	.00850
#2	.17249	.00551	.02980	2.387	-.02662	.00293	2.4700	.00191	.00854
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					50.000				
Low Limit					-.02000				

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	.13587	.00114	.02333	.01589
Stddev	.00118	.00281	.00066	.00053
%RSD	.86660	246.39	2.8173	3.3140
#1	.13504	-.00085	.02379	.01626
#2	.13670	.00313	.02286	.01551
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	4081.3	7121.3	64346.	8986.9
Stddev	.8	7.9	383.	64.1
%RSD	.02035	.11074	.59443	.71289
#1	4081.8	7126.9	64617.	9032.2
#2	4080.7	7115.7	64076.	8941.6

Sample Name: 480-29598-B-8-E PDS Acquired: 12/21/2012 19:48:14 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	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	.09861	42.347	.36653	.40549	.56035	.40542	27.491	.40247	.43886
Stddev	.00064	.026	.00208	.00107	.00046	.00021	.020	.00036	.00030
%RSD	.64792	.06068	.56623	.26358	.08254	.05142	.07136	.09062	.06848
#1	.09907	42.365	.36800	.40625	.56068	.40527	27.477	.40221	.43908
#2	.09816	42.329	.36506	.40474	.56003	.40557	27.504	.40272	.43865
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	25.992	.50391	33.589	20.754	21.206	.43577	22.243	.62926	.41428
Stddev	.031	.00227	.062	.002	.038	.00093	.203	.00421	.00070
%RSD	.11846	.44956	.18597	.00864	.17797	.21356	.91263	.66959	.16992
#1	26.014	.50551	33.633	20.753	21.180	.43643	22.386	.63224	.41478
#2	25.970	.50231	33.545	20.755	21.233	.43511	22.099	.62628	.41378
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	20.581	.44126	.55947	F 11.27	.27532	.41500	30.389	.40878	.43776
Stddev	.034	.00109	.00674	.01	.00110	.00186	.059	.00009	.00033
%RSD	.16729	.24792	1.2047	.1202	.39956	.44927	.19545	.02201	.07634
#1	20.606	.44203	.56423	11.28	.27454	.41632	30.347	.40872	.43799
#2	20.557	.44049	.55470	11.26	.27610	.41369	30.431	.40885	.43752
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	1.0342	.41262	.51679	.47371
Stddev	.0049	.00376	.00071	.00331
%RSD	.46911	.91076	.13724	.69906
#1	1.0376	.40997	.51729	.47605
#2	1.0307	.41528	.51629	.47137
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	3701.2	6914.9	62326.	9246.3
Stddev	9.6	9.0	106.	36.3
%RSD	.25958	.12950	.17012	.39269
#1	3694.4	6908.6	62251.	9272.0
#2	3708.0	6921.2	62401.	9220.6

Sample Name: CCV Acquired: 12/21/2012 19:50:29 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	.49964	24.460	.49681	.49313	.50786	.48703	25.118	.49448	.49808	.50311	.50127	23.318	24.903
Stddev	.00257	.172	.00039	.00050	.00248	.00378	.189	.00088	.00090	.00232	.00086	.180	.219
%RSD	.51461	.70364	.07785	.10176	.48918	.77654	.75249	.17775	.18070	.46078	.17157	.77153	.87905
#1	.50146	24.338	.49653	.49278	.50610	.48435	24.985	.49386	.49872	.50475	.50066	23.191	24.749
#2	.49783	24.581	.49708	.49349	.50961	.48970	25.252	.49511	.49744	.50147	.50188	23.446	25.058
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	25.241	.50503	24.220	.50407	.48785	24.754	.49595	.50311	24.39	.49882	.50339	23.861	.50881
Stddev	.059	.00188	.071	.00097	.00248	.157	.00019	.00066	.01	.00029	.00003	.205	.00063
%RSD	.23347	.37139	.29197	.19195	.50749	.63590	.03854	.13145	.0219	.05788	.00597	.85814	.12285
#1	25.199	.50370	24.270	.50476	.48610	24.643	.49609	.50358	24.39	.49902	.50337	23.716	.50925
#2	25.283	.50636	24.170	.50339	.48960	24.865	.49582	.50265	24.39	.49862	.50341	24.006	.50837
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	.49534	.49702	.50024	.49186	.49828
Stddev	.00332	.00172	.00222	.00040	.00240
%RSD	.67033	.34590	.44329	.08071	.48134
#1	.49299	.49581	.49867	.49214	.49997
#2	.49768	.49824	.50181	.49157	.49658
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	3750.2	6901.0	61718.	8932.2
Stddev	7.1	20.3	22.	70.8
%RSD	.18982	.29484	.03624	.79217
#1	3755.3	6915.4	61703.	8982.3
#2	3745.2	6886.6	61734.	8882.2

Sample Name: CCB Acquired: 12/21/2012 19:52:52 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	.00103	.02179	-.00270	.00030	.00009	.00021	.00576	.00006	.00005	.00229	.00065	.00484	-.02993
Stddev	.00011	.01019	.00202	.00039	.00002	.00000	.00382	.00009	.00010	.00055	.00002	.00228	.05166
%RSD	10.770	46.771	74.943	128.14	25.859	2.2173	66.350	163.04	213.37	24.230	3.4124	47.157	172.58
#1	.00111	.02899	-.00127	.00058	.00010	.00022	.00306	.00012	.00012	.00268	.00063	.00322	.00659
#2	.00095	.01458	-.00412	.00003	.00007	.00021	.00846	-.00001	-.00002	.00190	.00066	.00645	-.06646
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	.00443	.00244	.01160	.00004	.00007	.03081	-.00005	-.00069	.0018	-.00069	.00146	.01605	.00028
Stddev	.00082	.00040	.00400	.00006	.00018	.00364	.00042	.00073	.0025	.00044	.00555	.00953	.00014
%RSD	18.485	16.218	34.485	167.92	243.13	11.809	783.62	106.52	138.1	63.071	381.01	59.374	50.348
#1	.00501	.00216	.00878	.00008	.00020	.03339	.00024	-.00120	.0000	-.00100	.00538	.02278	.00038
#2	.00385	.00272	.01443	-.00001	-.00005	.02824	-.00035	-.00017	.0035	-.00038	-.00247	.00931	.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	.00007	.00013	-.00032	-.00010	.00028
Stddev	.00007	.00030	.00035	.00015	.00007
%RSD	96.007	228.46	111.12	152.69	25.397
#1	.00002	.00034	-.00056	.00001	.00023
#2	.00012	-.00008	-.00007	-.00020	.00033
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	4094.5	7066.9	63112.	8932.1
Stddev	3.8	5.2	40.	81.5
%RSD	.09322	.07389	.06309	.91234
#1	4097.2	7070.6	63084.	8874.5
#2	4091.8	7063.2	63140.	8989.7

Sample Name: 480-29598-B-8-F MS Acquired: 12/21/2012 19:55:21 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	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	.09131	45.815	.33626	.36048	.52683	.36285	25.819	.35861	.38921
Stddev	.00081	.579	.00401	.00000	.00506	.00597	.247	.00055	.00077
%RSD	.88242	1.2630	1.1919	.00118	.96103	1.6445	.95794	.15316	.19690
#1	.09074	45.406	.33343	.36048	.52325	.35863	25.644	.35823	.38975
#2	.09188	46.224	.33910	.36047	.53041	.36707	25.994	.35900	.38866
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	21.771	.46088	34.165	19.269	19.280	.39954	20.549	.60949	.36697
Stddev	.024	.00062	.589	.270	.458	.00527	.001	.00150	.00086
%RSD	.10831	.13449	1.7235	1.4016	2.3752	1.3178	.00387	.24587	.23559
#1	21.787	.46132	33.749	19.078	18.956	.39582	20.548	.61055	.36636
#2	21.754	.46044	34.582	19.460	19.604	.40326	20.549	.60843	.36758
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	18.870	.39546	.50804	F 11.49	.23049	.36284	26.555	.35952	.39594
Stddev	.302	.00014	.00144	.02	.00021	.00139	.280	.00105	.00387
%RSD	1.6005	.03621	.28267	.1778	.09258	.38421	1.0562	.29175	.97672
#1	18.656	.39536	.50906	11.50	.23034	.36382	26.357	.36026	.39320
#2	19.084	.39556	.50703	11.47	.23064	.36185	26.754	.35878	.39867
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	1.2455	.36648	.47722	.51385
Stddev	.0031	.00165	.00093	.00003
%RSD	.24566	.45022	.19576	.00579
#1	1.2477	.36531	.47788	.51387
#2	1.2434	.36764	.47656	.51383
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	3690.9	6914.4	61852.	9120.3
Stddev	11.0	4.4	188.	114.6
%RSD	.29820	.06292	.30375	1.2561
#1	3683.1	6911.3	61719.	9201.4
#2	3698.7	6917.5	61985.	9039.3

Sample Name: 480-29598-B-8-G MSD Acquired: 12/21/2012 19:57:42 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	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	.09784	51.834	.31988	.38979	.60742	.39434	28.383	.39002	.42240
Stddev	.00120	.396	.00311	.00036	.00403	.00247	.238	.00029	.00039
%RSD	1.2311	.76481	.97082	.09148	.66384	.62619	.83798	.07553	.09322
#1	.09869	51.553	.32208	.39004	.60457	.39259	28.215	.38981	.42268
#2	.09698	52.114	.31769	.38954	.61028	.39609	28.551	.39023	.42212
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	35.215	.53527	36.833	21.157	21.629	.43390	22.147	.66694	.40183
Stddev	.173	.00081	.306	.095	.028	.00458	.083	.00221	.00118
%RSD	.49042	.15051	.83058	.44987	.12818	1.0559	.37682	.33149	.29349
#1	35.337	.53584	36.617	21.089	21.609	.43066	22.206	.66850	.40099
#2	35.093	.53470	37.049	21.224	21.648	.43714	22.088	.66538	.40266
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	20.492	.43925	.59383	F 17.24	.19595	.39725	27.607	.38906	.43645
Stddev	.153	.00035	.00024	.03	.00084	.00244	.230	.00158	.00227
%RSD	.74841	.07963	.03994	.1920	.42777	.61414	.83303	.40616	.52067
#1	20.383	.43950	.59399	17.21	.19535	.39552	27.445	.38794	.43484
#2	20.600	.43900	.59366	17.26	.19654	.39897	27.770	.39017	.43805
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	1.3970	.40004	.53152	.46688
Stddev	.0075	.00113	.00323	.00015
%RSD	.54007	.28370	.60736	.03118
#1	1.4023	.40084	.53380	.46678
#2	1.3916	.39924	.52924	.46698
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	3668.9	6882.2	62604.	9153.8
Stddev	6.0	7.9	154.	26.9
%RSD	.16239	.11548	.24662	.29415
#1	3673.1	6887.8	62495.	9172.8
#2	3664.7	6876.6	62713.	9134.7

Sample Name: 480-29598-B-11-C Acquired: 12/21/2012 20:00:04 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	**-.00002**	**24.928**	**-.00286**	**.00160**	**.14620**	**.00218**	**7.7573**	**.00206**	**.01364**
Stddev	.00090	.368	.00403	.00025	.00143	.00011	.1162	.00003	.00009
%RSD	5693.8	1.4768	140.85	15.363	.97795	4.9685	1.4976	1.6114	.69472
#1	.00062	24.668	-.00001	.00177	.14721	.00225	7.6752	.00208	.01357
#2	-.00065	25.189	-.00571	.00143	.14519	.00210	7.8395	.00204	.01370
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	**13.463**	**.06593**	**19.376**	**.91909**	**.83384**	**.03040**	**3.0776**	**.26745**	**.00903**
Stddev	.084	.00090	.326	.01699	.00903	.00015	.0385	.00244	.00010
%RSD	.62294	1.3657	1.6845	1.8485	1.0824	.47839	1.2519	.91307	1.0812
#1	13.523	.06657	19.145	.90707	.82746	.03050	3.1048	.26917	.00896
#2	13.404	.06530	19.606	.93110	.84022	.03030	3.0503	.26572	.00910
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	**.72378**	**.02560**	**.10904**	F **10.65**	F **-.07427**	**.00585**	**14.845**	**.00957**	**.03519**
Stddev	.00973	.00046	.00002	.02	.00254	.00187	.174	.00005	.00078
%RSD	1.3449	1.7953	.01883	.1599	3.4190	31.996	1.1734	.54461	2.2066
#1	.71690	.02592	.10903	10.64	-.07606	.00453	14.722	.00953	.03464
#2	.73066	.02527	.10906	10.66	-.07247	.00718	14.969	.00961	.03573
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				10.00	50.000				
Low Limit				-.0100	-.02000				

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	**.74395**	**.00316**	**.08206**	**.07419**
Stddev	.00613	.00073	.00013	.00093
%RSD	.82378	23.228	.16114	1.2488
#1	.74829	.00367	.08197	.07484
#2	.73962	.00264	.08215	.07353
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	**3929.2**	**7096.9**	**63794.**	**9025.2**
Stddev	.3	4.4	361.	119.0
%RSD	.00776	.06166	.56565	1.3180
#1	3929.5	7093.8	63539.	9109.3
#2	3929.0	7100.0	64049.	8941.1

Sample Name: 480-30565-D-1-A Acquired: 12/21/2012 20:02:18 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	.00087	16.717	.08328	.03712	^ *****	.00105	^ *****	.01476	.08850
Stddev	.00094	19.645	.00424	.00030	-----	.00096	-----	.00117	.00142
%RSD	108.29	117.52	5.0901	.79979	-----	91.206	-----	7.8964	1.6055
#1	.00154	2.8257	.08627	.03733	.12157	.00037	^ -----	.01558	.08950
#2	.00020	30.607	.08028	.03691	^ -----	.00173	^ -----	.01393	.08749
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	.17553	22.959	52.609	2.6518	9.3300	.03766	84.582	4.8116	.00294
Stddev	.00220	.560	61.438	3.2318	.7305	.04409	1.179	.0629	.00014
%RSD	1.2558	2.4389	116.78	121.87	7.8293	117.07	1.3943	1.3074	4.8023
#1	.17397	22.563	9.1656	.36653	8.8135	.00648	83.748	4.7671	.00304
#2	.17709	23.355	96.052	4.9370	9.8466	.06884	85.416	4.8561	.00284
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	.52864	.27721	1.5726	F 18.17	-.00701	.00541	2.9983	.03408	^ *****
Stddev	.66931	.00213	.0139	.05	.00221	.00032	3.6916	.00032	-----
%RSD	126.61	.76813	.88550	.2493	31.474	5.9854	123.12	.93600	-----
#1	.05537	.27872	1.5824	18.20	-.00857	.00518	.38799	.03430	.04397
#2	1.0019	.27570	1.5627	18.13	-.00545	.00564	5.6087	.03385	^ -----
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	1.4666	.00006	.25412	8.8641
Stddev	.0326	.00346	.00309	.1304
%RSD	2.2231	5810.4	1.2169	1.4716
#1	1.4435	.00250	.25193	8.7719
#2	1.4896	-.00238	.25630	8.9564
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	3247.3	6706.5	60463.	12926.
Stddev	10.8	11.9	157.	743.
%RSD	.33160	.17757	.25981	5.7452
#1	3239.7	6698.0	60352.	13451.
#2	3254.9	6714.9	60574.	12401.

Sample Name: 480-30636-B-3-A Acquired: 12/21/2012 20:04:45 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	**-.00139**	**31.588**	**.01898**	**.02685**	**.28580**	**.00154**	**449.35**	**.00024**	**.03772**
Stddev	.00118	.654	.00006	.00034	.00105	.00002	9.43	.00035	.00019
%RSD	84.806	2.0690	.31056	1.2593	.36601	1.0685	2.0994	144.07	.49256
#1	-.00056	32.050	.01902	.02662	.28507	.00155	456.02	.00000	.03759
#2	-.00223	31.126	.01894	.02709	.28654	.00153	442.68	.00048	.03785
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	**.08291**	**.10108**	**81.056**	**8.4829**	**10.411**	**.05055**	**77.730**	**1.7584**	**.01318**
Stddev	.00019	.00000	1.562	.1014	.168	.00026	.120	.0033	.00028
%RSD	.23154	.00379	1.9265	1.1951	1.6106	.51792	.15450	.18530	2.1033
#1	.08305	.10108	82.160	8.5546	10.530	.05074	77.645	1.7561	.01338
#2	.08277	.10109	79.952	8.4112	10.293	.05037	77.815	1.7607	.01299
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	**1.6646**	**.11956**	**.03207**	**3.272**	**-.00196**	**.00521**	**13.014**	**.00690**	**1.4432**
Stddev	.0460	.00111	.00040	.014	.00157	.00514	.296	.00061	.0203
%RSD	2.7656	.93118	1.2485	.4165	80.236	98.656	2.2769	8.7925	1.4069
#1	1.6972	.12035	.03179	3.281	-.00085	.00884	13.223	.00732	1.4576
#2	1.6321	.11877	.03236	3.262	-.00306	.00157	12.804	.00647	1.4289
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	**2.1278**	**-.00104**	**.14733**	**.24595**
Stddev	.0157	.00084	.00000	.00213
%RSD	.73597	80.542	.00302	.86409
#1	2.1389	-.00045	.14734	.24746
#2	2.1168	-.00164	.14733	.24445
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	**3294.7**	**6790.2**	**60179.**	**9314.9**
Stddev	3.0	4.6	47.	164.1
%RSD	.08987	.06795	.07780	1.7618
#1	3292.6	6786.9	60145.	9198.8
#2	3296.8	6793.5	60212.	9430.9

Sample Name: 480-30636-B-6-A Acquired: 12/21/2012 20:07:05 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	**-.00051**	**19.334**	**.01137**	**.01945**	**.12606**	**.00108**	**418.79**	**.00031**	**.01548**
Stddev	.00045	.062	.00267	.00031	.00030	.00007	.84	.00018	.00018
%RSD	89.077	.31956	23.489	1.5771	.23913	6.6181	.20145	57.950	1.1603
#1	-.00019	19.377	.00948	.01967	.12627	.00113	418.19	.00043	.01560
#2	-.00083	19.290	.01326	.01923	.12585	.00103	419.39	.00018	.01535
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	**.04893**	**.06757**	**70.455**	**4.9081**	**6.1953**	**.03129**	**105.00**	**1.2506**	**.00212**
Stddev	.00020	.00027	.527	.0586	.0624	.00104	.16	.0010	.00025
%RSD	.41436	.39344	.74839	1.1941	1.0071	3.3187	.15489	.08293	11.792
#1	.04907	.06776	70.828	4.9495	6.2394	.03203	104.88	1.2498	.00194
#2	.04879	.06738	70.083	4.8666	6.1512	.03056	105.11	1.2513	.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	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	**1.3720**	**.04629**	**.02159**	**.9916**	**-.00367**	**-.00143**	**10.775**	**.00464**	**1.1425**
Stddev	.0052	.00026	.00244	.0019	.00198	.00420	.033	.00017	.0054
%RSD	.38203	.56859	11.286	.1936	54.085	292.80	.30426	3.6976	.47135
#1	1.3683	.04610	.01987	.9930	-.00227	.00153	10.752	.00476	1.1463
#2	1.3757	.04648	.02331	.9903	-.00507	-.00440	10.798	.00452	1.1387
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	**1.2188**	**-.00467**	**.15471**	**.15516**
Stddev	.0017	.00193	.00077	.00028
%RSD	.13726	41.365	.49645	.17728
#1	1.2200	-.00330	.15525	.15535
#2	1.2176	-.00604	.15417	.15496
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	**3283.9**	**6729.1**	**60973.**	**9003.1**
Stddev	.9	8.9	152.	5.8
%RSD	.02718	.13264	.24898	.06457
#1	3284.5	6735.5	61080.	8999.0
#2	3283.3	6722.8	60865.	9007.2

Sample Name: 480-30636-B-9-A Acquired: 12/21/2012 20:09:19 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	-.00052	36.864	.03013	.03499	.30215	.00218	691.50	.00019	.04996
Stddev	.00031	.023	.00147	.00023	.00005	.00005	3.90	.00015	.00047
%RSD	59.429	.06162	4.8855	.65859	.01783	2.2403	.56403	77.863	.94872
#1	-.00030	36.848	.02909	.03516	.30219	.00214	694.26	.00008	.04963
#2	-.00074	36.880	.03117	.03483	.30211	.00221	688.74	.00029	.05030
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	.07713	.11218	92.651	10.038	13.256	.06452	76.272	1.8748	.01193
Stddev	.00084	.00042	.126	.039	.073	.00128	.099	.0027	.00011
%RSD	1.0911	.37495	.13592	.39112	.54862	1.9910	.12966	.14693	.94949
#1	.07772	.11247	92.562	10.065	13.307	.06543	76.202	1.8729	.01185
#2	.07653	.11188	92.740	10.010	13.204	.06361	76.342	1.8768	.01201
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	1.8759	.13499	.04475	F 19.82	-.00416	.00598	14.785	.00639	2.3639
Stddev	.0101	.00053	.00161	.06	.00236	.00893	.101	.00071	.0087
%RSD	.54061	.39010	3.5880	.3082	56.697	149.26	.68529	11.115	.36786
#1	1.8831	.13461	.04362	19.77	-.00249	.01229	14.857	.00689	2.3577
#2	1.8687	.13536	.04589	19.86	-.00583	-.00033	14.713	.00589	2.3700
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	1.7983	-.00181	.13565	.24540
Stddev	.0090	.00092	.00107	.00097
%RSD	.49909	50.862	.79109	.39602
#1	1.7920	-.00116	.13641	.24609
#2	1.8047	-.00246	.13489	.24471
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	3163.4	6716.5	61199.	9086.9
Stddev	11.0	23.8	133.	.8
%RSD	.34841	.35430	.21742	.00920
#1	3171.2	6733.3	61293.	9086.3
#2	3155.6	6699.7	61105.	9087.5

Sample Name: 480-30636-B-12-A Acquired: 12/21/2012 20:11:35 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	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	**-.00141**	**75.644**	**.03156**	**.04309**	**.55307**	**.00384**	**612.72**	F **-.00112**	**.08412**
Stddev	.00147	.421	.00132	.00031	.00123	.00001	10.40	.00001	.00013
%RSD	63.779	.55620	4.1796	.72606	.22224	.29645	1.6965	1.2899	.15579
#1	-.00335	75.346	.03249	.04332	.55220	.00383	605.37	-.00113	.08403
#2	-.00127	75.941	.03062	.04287	.55394	.00384	620.07	-.00111	.08422
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	**.11179**	**.16441**	**173.76**	**15.304**	**19.378**	**.16442**	**77.853**	**2.7414**	**.00517**
Stddev	.00386	.00462	1.13	.049	.110	.00011	2.603	.0958	.00013
%RSD	3.4530	2.8090	.64853	.31905	.56612	.06841	3.3434	3.4951	2.5817
#1	.11452	.16768	172.97	15.269	19.301	.16434	79.694	2.8091	.00508
#2	.10906	.16114	174.56	15.338	19.456	.16450	76.013	2.6736	.00527
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	**2.3621**	**.19658**	**.06560**	F **23.49**	**-.00681**	**.00791**	**16.162**	**.01125**	**2.2297**
Stddev	.0121	.00154	.00329	.05	.00116	.00240	.022	.00057	.0066
%RSD	.51155	.78360	5.0160	.1985	16.994	30.382	.13434	5.0285	.29627
#1	2.3535	.19767	.06793	23.53	-.00599	.00621	16.147	.01165	2.2251
#2	2.3706	.19549	.06328	23.46	-.00763	.00961	16.178	.01085	2.2344
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	**3.2009**	**-.00521**	**.23512**	**.42479**
Stddev	.0733	.00099	.00824	.01217
%RSD	2.2891	18.976	3.5033	2.8651
#1	3.2527	-.00451	.24095	.43340
#2	3.1491	-.00590	.22930	.41618
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	**3171.9**	**6971.6**	**64882.**	**9315.4**
Stddev	9.3	11.2	1618.	77.5
%RSD	.29336	.16011	2.4930	.83159
#1	3165.4	6963.7	63738.	9370.2
#2	3178.5	6979.5	66026.	9260.6

Sample Name: 480-30452-H-13-B Acquired: 12/21/2012 20:13:57 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	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**	**46.374**	**.04374**	**.03700**	**.75929**	**.00240**	**476.45**	**.00716**	**.04220**
Stddev	.00036	.168	.00127	.00033	.00251	.00008	1.23	.00009	.00020
%RSD	31.073	.36160	2.9046	.89238	.33008	3.2856	.25809	1.3122	.48086
#1	-.00140	46.256	.04284	.03677	.75752	.00245	475.59	.00710	.04206
#2	-.00089	46.493	.04464	.03724	.76107	.00234	477.32	.00723	.04234
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	**.10623**	**.23306**	**110.64**	**8.3192**	**10.325**	**.09459**	**167.34**	**2.1557**	**.00654**
Stddev	.00078	.00043	.21	.0090	.039	.00098	.79	.0101	.00015
%RSD	.73796	.18436	.18993	.10795	.37308	1.0350	.47455	.46811	2.3525
#1	.10679	.23276	110.49	8.3129	10.352	.09528	167.90	2.1628	.00643
#2	.10568	.23336	110.79	8.3256	10.298	.09389	166.78	2.1485	.00664
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	**2.6291**	**.13631**	**4.0441**	**6.490**	**-.00097**	**.00731**	**17.257**	**.04893**	**.72907**
Stddev	.0050	.00153	.0106	.015	.00154	.00158	.027	.00006	.00063
%RSD	.19185	1.1194	.26192	.2274	158.75	21.591	.15534	.12162	.08671
#1	2.6255	.13523	4.0366	6.500	-.00206	.00619	17.276	.04898	.72951
#2	2.6327	.13738	4.0516	6.480	.00012	.00843	17.238	.04889	.72862
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	**1.2198**	**.00019**	**.13115**	**1.0642**
Stddev	.0002	.00132	.00130	.0098
%RSD	.01759	693.24	.99229	.91763
#1	1.2200	-.00074	.13207	1.0711
#2	1.2197	.00112	.13023	1.0573
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	**3214.5**	**6532.1**	**60111.**	**8710.1**
Stddev	1.7	14.5	346.	1.1
%RSD	.05364	.22263	.57536	.01218
#1	3213.3	6542.4	59866.	8709.4
#2	3215.7	6521.9	60355.	8710.9

Sample Name: 480-30452-H-15-B Acquired: 12/21/2012 20:16:14 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	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	**-.00057**	**112.31**	**.07872**	**.06321**	**.93331**	**.00595**	**347.95**	F **-.00197**	**.10778**
Stddev	.00071	.02	.00241	.00093	.00063	.00005	.03	.00010	.00029
%RSD	125.27	.02031	3.0559	1.4664	.06702	.76707	.00731	5.0975	.26966
#1	-.00006	112.30	.08042	.06255	.93287	.00592	347.97	-.00204	.10798
#2	-.00107	112.33	.07702	.06386	.93376	.00599	347.93	-.00190	.10757
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	**.13652**	**.20561**	**225.43**	**21.073**	**24.479**	**.20701**	**75.624**	**10.724**	**.00292**
Stddev	.00116	.00056	.17	.023	.146	.00029	.544	.071	.00016
%RSD	.85084	.27259	.07691	.10685	.59695	.13865	.71999	.66118	5.4885
#1	.13734	.20600	225.30	21.089	24.582	.20681	76.009	10.774	.00281
#2	.13570	.20521	225.55	21.057	24.375	.20721	75.239	10.674	.00303
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	**2.2833**	**.24826**	**.14227**	**1.508**	**-.01073**	**.00872**	**21.182**	**.01170**	**.90667**
Stddev	.0034	.00100	.00073	.004	.00149	.00104	.064	.00119	.00122
%RSD	.14814	.40311	.51365	.2700	13.898	11.942	.30205	10.148	.13403
#1	2.2857	.24755	.14279	1.511	-.01178	.00945	21.227	.01086	.90753
#2	2.2809	.24896	.14176	1.506	-.00967	.00798	21.136	.01254	.90581
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	**2.6273**	**.00386**	**.20842**	**.48854**
Stddev	.0025	.00103	.00219	.00186
%RSD	.09431	26.754	1.0494	.38139
#1	2.6290	.00313	.20996	.48986
#2	2.6255	.00459	.20687	.48722
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	**3302.5**	**7129.3**	**65249.**	**9431.4**
Stddev	10.6	21.8	216.	30.1
%RSD	.32102	.30632	.33049	.31910
#1	3310.0	7144.8	65096.	9410.1
#2	3295.0	7113.9	65401.	9452.7

Sample Name: CCV Acquired: 12/21/2012 20:18:40 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	.48473	25.871	.50478	.49692	.52919	.52578	27.033	.49624	.51104	.50301	.50287	25.381	26.453
Stddev	.01550	.054	.00095	.00163	.00026	.00082	.074	.00077	.00148	.01763	.01497	.012	.009
%RSD	3.1973	.20814	.18865	.32798	.04974	.15554	.27323	.15420	.29056	3.5041	2.9768	.04690	.03266
#1	.49569	25.909	.50411	.49577	.52938	.52636	26.980	.49570	.50999	.51548	.51346	25.372	26.459
#2	.47377	25.833	.50545	.49807	.52901	.52521	27.085	.49679	.51209	.49055	.49229	25.389	26.446
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	26.440	.52800	23.825	.49562	.48223	25.793	.51235	.52088	24.08	.50359	.51788	24.355	.51474
Stddev	.037	.00051	.778	.01510	.00006	.014	.00000	.00054	.04	.00008	.00246	.011	.00112
%RSD	.14048	.09752	3.2638	3.0461	.01160	.05434	.00056	.10463	.1612	.01663	.47530	.04419	.21815
#1	26.466	.52836	24.374	.50629	.48227	25.802	.51235	.52127	24.05	.50364	.51614	24.363	.51554
#2	26.414	.52763	23.275	.48494	.48219	25.783	.51235	.52050	24.10	.50353	.51962	24.347	.51395
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	.53001	.50219	.50060	.47944	.50441
Stddev	.00147	.01424	.00125	.01500	.01529
%RSD	.27725	2.8352	.24883	3.1286	3.0318
#1	.52897	.51226	.50148	.49005	.51523
#2	.53105	.49212	.49972	.46883	.49360
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	3803.3	7030.7	63010.	8673.5
Stddev	.8	11.3	1377.	7.8
%RSD	.02197	.16070	2.1854	.08955
#1	3803.9	7038.7	62036.	8679.0
#2	3802.7	7022.7	63984.	8668.0

Sample Name: CCB Acquired: 12/21/2012 20:20:50 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	.00066	-.01762	-.00061	-.00018	.00003	.00017	.03953	.00003	.00009	.00084	.00104	.02181	-.03523
Stddev	.00052	.01276	.00163	.00027	.00002	.00003	.00725	.00012	.00006	.00022	.00042	.00232	.00768
%RSD	78.890	72.427	266.24	146.56	54.430	16.186	18.340	346.21	70.611	26.021	40.432	10.641	21.807
#1	.00103	-.00860	.00054	-.00038	.00005	.00019	.04466	.00012	.00004	.00069	.00075	.02345	-.02980
#2	.00029	-.02665	-.00176	.00001	.00002	.00015	.03441	-.00005	.00013	.00100	.00134	.02017	-.04067
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	.00515	.00370	.01383	.00046	-.00008	.01829	.00038	.00013	.0021	-.00061	.00190	.01949	.00005
Stddev	.00037	.00143	.00074	.00004	.00004	.01354	.00033	.00005	.0004	.00081	.00464	.00977	.00020
%RSD	7.1458	38.665	5.3604	8.4192	52.268	74.043	86.670	38.775	20.56	132.27	243.55	50.113	369.74
#1	.00489	.00471	.01330	.00048	-.00011	.00871	.00061	.00009	.0024	-.00004	-.00138	.01258	.00020
#2	.00541	.00269	.01435	.00043	-.00005	.02787	.00015	.00016	.0018	-.00119	.00518	.02640	-.00009
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	.00011	.00019	-.00024	-.00023	.00043
Stddev	.00005	.00012	.00302	.00031	.00034
%RSD	41.177	65.028	1264.7	132.14	79.014
#1	.00008	.00028	-.00238	-.00002	.00019
#2	.00015	.00010	.00190	-.00045	.00067
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	4133.3	7171.8	65863.	8676.0
Stddev	22.3	38.8	317.	32.8
%RSD	.54042	.54169	.48147	.37753
#1	4117.5	7144.3	66087.	8699.1
#2	4149.1	7199.3	65638.	8652.8

Sample Name: 480-30452-E-16-B Acquired: 12/21/2012 20:23:08 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	**-.00189**	**120.28**	**.04599**	**.02494**	**1.3887**	**.00682**	**27.696**	F **-.00149**	**.09454**
Stddev	.00116	.80	.00269	.00038	.0086	.00005	.234	.00003	.00006
%RSD	61.274	.66244	5.8483	1.5421	.61570	.70005	.84404	2.2672	.06390
#1	-.00107	119.72	.04789	.02521	1.3827	.00686	27.530	-.00146	.09450
#2	-.00271	120.85	.04409	.02466	1.3948	.00679	27.861	-.00151	.09459
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	**.12852**	**.18224**	**192.69**	**13.583**	**13.530**	**.15729**	**31.569**	**2.7305**	**.00241**
Stddev	.00073	.00055	1.24	.096	.023	.00004	.219	.0159	.00007
%RSD	.56524	.29931	.64239	.70308	.16749	.02804	.69287	.58121	2.9075
#1	.12904	.18263	191.82	13.515	13.546	.15726	31.724	2.7418	.00236
#2	.12801	.18185	193.57	13.650	13.514	.15732	31.414	2.7193	.00246
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	**1.2655**	**.19180**	**1.2859**	**.7357**	**-.00755**	**.00409**	**18.566**	**.04801**	**.15619**
Stddev	.0096	.00010	.0052	.0026	.00174	.00254	.062	.00078	.00084
%RSD	.76162	.05474	.40637	.3468	23.084	62.150	.33516	1.6156	.53922
#1	1.2586	.19187	1.2896	.7375	-.00878	.00588	18.522	.04746	.15560
#2	1.2723	.19172	1.2823	.7339	-.00631	.00229	18.610	.04856	.15679
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	**2.5398**	**-.00595**	**.18819**	**1.2788**
Stddev	.0028	.00064	.00173	.0058
%RSD	.10985	10.754	.92113	.45623
#1	2.5418	-.00550	.18941	1.2829
#2	2.5379	-.00640	.18696	1.2746
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	**3646.4**	**7502.1**	**68664.**	**9414.0**
Stddev	5.5	15.9	251.	39.5
%RSD	.14998	.21247	.36529	.41912
#1	3642.5	7490.8	68487.	9441.9
#2	3650.2	7513.4	68842.	9386.1

Sample Name: 480-30537-B-1-D Acquired: 12/21/2012 20:25:25 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	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	**-.00073**	**88.525**	**.08073**	**.05132**	**.52184**	**.00420**	**244.49**	**-.00067**	**.09175**
Stddev	.00056	1.006	.00244	.00016	.00478	.00007	2.23	.00009	.00051
%RSD	76.950	1.1367	3.0229	.30594	.91618	1.5749	.91373	13.900	.55089
#1	-.00033	89.236	.07901	.05121	.52522	.00425	246.07	-.00074	.09139
#2	-.00113	87.813	.08246	.05143	.51846	.00416	242.91	-.00061	.09210
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	**.11687**	**.22199**	**199.04**	**13.269**	**14.902**	**.20401**	**91.418**	**3.6059**	**.01672**
Stddev	.00021	.00064	1.71	.153	.268	.00211	.109	.0020	.00022
%RSD	.17860	.29039	.85726	1.1565	1.7951	1.0325	.11917	.05645	1.3191
#1	.11672	.22153	200.25	13.378	15.091	.20550	91.341	3.6044	.01688
#2	.11702	.22244	197.84	13.161	14.713	.20252	91.495	3.6073	.01656
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	**.78154**	**.25695**	**.12523**	F **17.45**	**-.00619**	**.00544**	**18.201**	**.00539**	**.31986**
Stddev	.00847	.00145	.00230	.01	.00129	.00269	.164	.00023	.00347
%RSD	1.0832	.56596	1.8406	.0467	20.803	49.484	.89895	4.3161	1.0856
#1	.78753	.25798	.12360	17.45	-.00710	.00735	18.317	.00555	.32232
#2	.77556	.25592	.12686	17.46	-.00528	.00354	18.085	.00522	.31741
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	**.89755**	**.00042**	**.12750**	**.56319**
Stddev	.00846	.00141	.00055	.00034
%RSD	.94297	335.95	.43328	.06110
#1	.90353	.00142	.12789	.56295
#2	.89156	-.00058	.12711	.56343
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	**3417.9**	**6900.2**	**64022.**	**8854.2**
Stddev	2.2	7.0	14.	108.7
%RSD	.06392	.10082	.02203	1.2281
#1	3416.3	6905.1	64012.	8777.3
#2	3419.4	6895.3	64032.	8931.1

Sample Name: 480-30537-G-2-B Acquired: 12/21/2012 20:28:00 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	**-.00054**	**91.326**	**.09235**	**.06220**	**.55834**	**.00405**	**328.91**	F **-.00121**	**.10586**
Stddev	.00010	.566	.00114	.00048	.00133	.00015	.56	.00019	.00031
%RSD	18.303	.61960	1.2322	.77058	.23857	3.5827	.16887	15.374	.29598
#1	-.00061	91.726	.09154	.06186	.55928	.00416	328.52	-.00134	.10608
#2	-.00047	90.926	.09315	.06254	.55740	.00395	329.30	-.00108	.10563
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	**.13143**	**.21704**	**191.31**	**16.336**	**18.888**	**.23323**	**96.210**	**2.9367**	**.01594**
Stddev	.00039	.00146	.75	.036	.012	.00042	.464	.0169	.00012
%RSD	.29918	.67426	.39141	.22002	.06302	.18151	.48208	.57369	.75347
#1	.13115	.21601	191.84	16.361	18.879	.23353	95.882	2.9247	.01586
#2	.13171	.21808	190.78	16.310	18.896	.23294	96.538	2.9486	.01603
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	**1.0164**	**.28743**	**.11378**	F **44.43**	**-.00414**	**.00542**	**18.051**	**.00569**	**.51061**
Stddev	.0190	.00031	.00432	.03	.00033	.00224	.306	.00021	.00020
%RSD	1.8724	.10818	3.7967	.0600	7.8598	41.238	1.6930	3.7684	.03997
#1	1.0299	.28765	.11684	44.45	-.00437	.00384	18.267	.00584	.51075
#2	1.0030	.28721	.11073	44.41	-.00391	.00700	17.835	.00554	.51046
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	**1.1886**	**-.00058**	**.13826**	**.45719**
Stddev	.0105	.00100	.00071	.00355
%RSD	.88289	173.22	.51633	.77580
#1	1.1960	.00013	.13775	.45468
#2	1.1812	-.00128	.13876	.45970
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	**3349.9**	**6809.4**	**62923.**	**8849.8**
Stddev	1.7	.7	322.	15.0
%RSD	.05183	.00991	.51170	.16915
#1	3348.7	6809.9	63151.	8839.2
#2	3351.1	6808.9	62696.	8860.3

Sample Name: 480-30537-F-3-B Acquired: 12/21/2012 20:30:31 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	.00096	118.57	.06259	.02890	.68478	.00513	27.408	-.00062	.09368
Stddev	.00071	2.04	.00274	.00115	.01121	.00012	.385	.00030	.00058
%RSD	73.546	1.7202	4.3771	3.9922	1.6369	2.3471	1.4040	48.649	.62331
#1	.00046	117.13	.06066	.02972	.67685	.00504	27.136	-.00041	.09409
#2	.00146	120.01	.06453	.02809	.69270	.00521	27.680	-.00083	.09327
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	.12953	.13866	205.25	8.5200	8.4807	.17876	23.951	6.6642	.01903
Stddev	.00037	.00024	3.34	.1696	.0872	.00143	.119	.0304	.00021
%RSD	.28713	.17656	1.6261	1.9900	1.0288	.80132	.49797	.45561	1.1097
#1	.12927	.13848	202.89	8.4001	8.4190	.17774	23.867	6.6427	.01918
#2	.12980	.13883	207.61	8.6399	8.5424	.17977	24.035	6.6857	.01888
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	.35426	.19585	.17611	2.055	-.00683	.00854	18.003	.00688	.07814
Stddev	.00860	.00084	.00135	.004	.00103	.00088	.343	.00025	.00106
%RSD	2.4274	.42803	.76641	.2103	15.068	10.354	1.9076	3.6229	1.3544
#1	.34818	.19645	.17706	2.058	-.00610	.00917	17.760	.00671	.07739
#2	.36034	.19526	.17515	2.052	-.00756	.00792	18.246	.00706	.07889
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	1.2090	.00324	.17203	.53943
Stddev	.0064	.00217	.00147	.00311
%RSD	.52861	66.961	.85331	.57746
#1	1.2135	.00171	.17099	.53722
#2	1.2045	.00477	.17307	.54163
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	3675.6	7103.8	65719.	8869.0
Stddev	6.3	2.5	274.	123.0
%RSD	.17181	.03540	.41762	1.3866
#1	3671.2	7102.0	65913.	8956.0
#2	3680.1	7105.6	65525.	8782.1

Sample Name: 460-48548-I-1-D Acquired: 12/21/2012 20:32:51 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	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	**-.00045**	**.67597**	**.02603**	**-.00092**	**.57589**	**.00052**	**1.5446**	**-.00002**	**.00225**
Stddev	.00025	.02056	.00238	.00002	.00156	.00004	.0054	.00013	.00010
%RSD	56.292	3.0413	9.1595	1.7713	.27019	7.3981	.34924	568.09	4.2966
#1	-.00027	.69051	.02435	-.00091	.57699	.00050	1.5484	-.00012	.00232
#2	-.00062	.66143	.02772	-.00093	.57479	.00055	1.5408	.00007	.00219
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	**.19017**	**.00760**	**8.7917**	**-.02423**	**.05542**	**.00175**	**.06839**	**.22668**	**.00038**
Stddev	.00020	.00002	.0625	.04555	.00109	.00063	.00133	.00071	.00003
%RSD	.10452	.21894	.71118	188.01	1.9646	35.915	1.9377	.31402	6.7195
#1	.19031	.00761	8.8359	-.05643	.05619	.00220	.06745	.22617	.00037
#2	.19003	.00759	8.7475	.00798	.05465	.00131	.06933	.22718	.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	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	**.05310**	**.00890**	**.00267**	F **30.22**	**-.00184**	**.00232**	**.23820**	**.00086**	**.01518**
Stddev	.01019	.00008	.00089	.01	.00055	.00144	.00215	.00008	.00011
%RSD	19.194	.88365	33.170	.0198	29.879	61.877	.90429	9.2301	.70489
#1	.06031	.00896	.00330	30.21	-.00145	.00334	.23667	.00092	.01526
#2	.04590	.00885	.00204	30.22	-.00223	.00131	.23972	.00081	.01511
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	**.03146**	**-.00521**	**.02446**	**.02276**
Stddev	.00027	.00072	.00008	.00037
%RSD	.86211	13.730	.32394	1.6052
#1	.03165	-.00571	.02452	.02302
#2	.03127	-.00470	.02441	.02250
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	**4225.6**	**7854.1**	**73483.**	**9752.0**
Stddev	.3	10.4	403.	86.0
%RSD	.00811	.13183	.54899	.88154
#1	4225.8	7861.5	73768.	9691.2
#2	4225.3	7846.8	73197.	9812.8

Sample Name: 30468-18 dis raw Acquired: 12/21/2012 20:35:06 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	.00102	.00363	.00088	.47071	.03654	.00008	77.711	.00004	.00012
Stddev	.00125	.00147	.00039	.00017	.00013	.00003	.640	.00017	.00010
%RSD	122.09	40.370	44.056	.03623	.34568	39.653	.82357	465.97	84.372
#1	.00014	.00467	.00116	.47083	.03645	.00006	78.164	-.00008	.00005
#2	.00191	.00259	.00061	.47059	.03663	.00010	77.259	.00016	.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	.00141	.00688	1.0970	1.9679	2.8916	.00605	35.582	.01241	.03315
Stddev	.00015	.00000	.0110	.0434	.0315	.00210	.235	.00015	.00024
%RSD	10.563	.03694	1.0059	2.2041	1.0883	34.706	.65962	1.2485	.72664
#1	.00131	.00688	1.1048	1.9986	2.9139	.00457	35.416	.01230	.03332
#2	.00152	.00688	1.0892	1.9373	2.8694	.00754	35.748	.01252	.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	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	75.968	.00153	.00015	F 119.8	-.00003	.00231	4.3574	-.00043	2.5874
Stddev	.669	.00033	.00094	.3	.00144	.00402	.0458	.00017	.0080
%RSD	.88037	21.297	641.01	.2219	4831.2	174.15	1.0512	40.385	.30795
#1	76.441	.00130	.00081	120.0	.00099	.00515	4.3898	-.00031	2.5930
#2	75.496	.00176	-.00052	119.6	-.00105	-.00053	4.3250	-.00055	2.5818
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	.00141	.00174	.00054	.00951
Stddev	.00002	.00072	.00063	.00051
%RSD	1.7365	41.299	116.67	5.3827
#1	.00143	.00225	.00009	.00915
#2	.00139	.00123	.00099	.00987
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	3862.8	7026.8	64650.	8812.9
Stddev	16.2	32.0	617.	6.7
%RSD	.41936	.45555	.95475	.07623
#1	3874.3	7049.5	65087.	8817.6
#2	3851.4	7004.2	64214.	8808.1

Sample Name: 30294-2 tot raw Acquired: 12/21/2012 20:37:18 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	.00102	.00695	.00045	.00416	.00773	.00006	3.2922	-.00030	.00011
Stddev	.00061	.00107	.00007	.00017	.00003	.00009	.0104	.00005	.00011
%RSD	59.564	15.376	14.807	4.0286	.37572	159.27	.31482	16.628	103.19
#1	.00144	.00771	.00050	.00428	.00771	-.00001	3.2848	-.00026	.00003
#2	.00059	.00620	.00040	.00404	.00775	.00013	3.2995	-.00033	.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	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	.00600	.15283	.57276	.66514	.00329	1.0853	.02165	.00008
Stddev	.00029	.00046	.00288	.01060	.00043	.00104	.0071	.00003	.00014
%RSD	82.985	7.6815	1.8848	1.8515	.06403	31.531	.65477	.12220	169.52
#1	.00014	.00633	.15487	.58026	.66484	.00403	1.0803	.02167	-.00002
#2	.00055	.00567	.15080	.56527	.66544	.00256	1.0904	.02163	.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	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	13.773	.00064	.00106	1.366	-.00162	.00090	2.2768	-.00021	.01623
Stddev	.006	.00057	.00003	.004	.00171	.00226	.0296	.00027	.00007
%RSD	.04026	88.738	3.0558	.2905	105.25	250.58	1.3008	127.88	.44127
#1	13.777	.00104	.00104	1.369	-.00042	.00250	2.2977	-.00002	.01628
#2	13.769	.00024	.00109	1.363	-.00283	-.00070	2.2559	-.00040	.01618
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	.00031	.00177	.00022	.01956
Stddev	.00047	.00226	.00019	.00035
%RSD	152.08	127.99	86.903	1.8151
#1	-.00002	.00337	.00035	.01981
#2	.00064	.00017	.00008	.01931
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	4225.8	7302.6	66514.	9089.2
Stddev	17.8	22.4	69.	2.6
%RSD	.42024	.30657	.10416	.02842
#1	4238.3	7318.4	66563.	9087.4
#2	4213.2	7286.8	66465.	9091.0

Sample Name: RB Acquired: 12/21/2012 20:39:33 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	**-.00029**	**.01067**	**-.00059**	**-.00070**	**-.00005**	**.00016**	**.00558**	**-.00012**	**.00001**
Stddev	.00002	.00473	.00136	.00009	.00000	.00003	.00232	.00019	.00014
%RSD	5.3262	44.359	230.86	13.549	5.5365	18.585	41.530	160.04	1215.4
#1	-.00031	.01402	.00037	-.00076	-.00005	.00014	.00721	.00002	-.00009
#2	-.00028	.00732	-.00155	-.00063	-.00004	.00018	.00394	-.00025	.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	**.00041**	**.00074**	**.00437**	**-.10279**	**.00010**	**.00292**	**.00721**	**-.00001**	**.00030**
Stddev	.00004	.00030	.00399	.02146	.00064	.00152	.00163	.00001	.00016
%RSD	10.546	40.358	91.294	20.875	607.34	52.165	22.588	46.831	52.847
#1	.00038	.00095	.00155	-.08762	-.00035	.00184	.00606	-.00001	.00041
#2	.00044	.00053	.00720	-.11796	.00056	.00400	.00836	-.00002	.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	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	**.02094**	**-.00008**	**.00007**	**.0117**	**-.00021**	**.00111**	**-.00179**	**.00030**	**-.00012**
Stddev	.00170	.00020	.00069	.0005	.00122	.00017	.00628	.00012	.00023
%RSD	8.1090	249.90	927.66	3.927	592.15	15.369	350.83	40.218	184.78
#1	.02214	-.00022	.00056	.0114	.00066	.00123	-.00623	.00022	-.00029
#2	.01974	.00006	-.00041	.0121	-.00107	.00099	.00265	.00039	.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	**.00024**	**-.00132**	**-.00023**	**.00042**
Stddev	.00011	.00049	.00003	.00017
%RSD	48.609	36.964	13.099	40.525
#1	.00015	-.00098	-.00021	.00030
#2	.00032	-.00167	-.00025	.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	**4100.2**	**7014.1**	**64262.**	**8783.2**
Stddev	2.9	16.2	34.	50.8
%RSD	.06970	.23112	.05213	.57833
#1	4102.3	7025.5	64239.	8819.1
#2	4098.2	7002.6	64286.	8747.3

Sample Name: RB Acquired: 12/21/2012 20:41:52 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	-.00527	-.00014	-.00058	-.00005	.00016	.00984	-.00013	-.00009
Stddev	.00044	.00416	.00068	.00011	.00000	.00004	.00297	.00031	.00001
%RSD	50.995	78.876	482.88	18.385	8.2762	27.621	30.166	248.37	9.4230
#1	.00055	-.00233	-.00062	-.00051	-.00005	.00013	.01194	.00010	-.00010
#2	.00116	-.00821	.00034	-.00066	-.00005	.00019	.00774	-.00035	-.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	.00047	.00076	.00235	-.09408	.00020	.00101	.00561	-.00001	-.00030
Stddev	.00035	.00003	.00076	.01587	.00101	.00066	.00022	.00015	.00001
%RSD	73.384	3.6391	32.539	16.869	503.01	65.271	3.9268	1694.8	4.2934
#1	.00072	.00074	.00181	-.08286	-.00051	.00054	.00576	-.00011	-.00031
#2	.00023	.00078	.00289	-.10530	.00091	.00147	.00545	.00010	-.00029
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	.01081	.00062	.00065	.0058	.00048	.00137	-.00526	.00045	.00002
Stddev	.00410	.00022	.00004	.0011	.00032	.00211	.00875	.00008	.00005
%RSD	37.906	35.241	6.0668	18.94	66.440	153.85	166.30	18.883	329.42
#1	.01371	.00046	.00062	.0066	.00025	.00286	.00093	.00051	-.00002
#2	.00791	.00077	.00068	.0050	.00070	-.00012	-.01144	.00039	.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	.00021	.00014	-.00004	-.00007
Stddev	.00004	.00073	.00003	.00009
%RSD	19.694	521.71	64.293	133.93
#1	.00024	.00066	-.00002	-.00013
#2	.00018	-.00038	-.00006	.00000
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	4117.4	7047.0	64064.	8790.2
Stddev	2.5	2.8	262.	6.8
%RSD	.06191	.04008	.40925	.07737
#1	4115.6	7045.0	63878.	8785.4
#2	4119.2	7049.0	64249.	8795.0

Sample Name: RB Acquired: 12/21/2012 20:44:08 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	.00044	-.01823	-.00097	-.00099	-.00005	.00009	.00323	-.00001	-.00006
Stddev	.00005	.00468	.00232	.00056	.00001	.00011	.00181	.00004	.00004
%RSD	12.261	25.673	238.36	56.355	26.712	117.10	56.120	540.68	60.538
#1	.00048	-.02154	.00067	-.00138	-.00006	.00017	.00451	-.00004	-.00009
#2	.00040	-.01492	-.00262	-.00059	-.00004	.00002	.00195	.00002	-.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	.00062	.00108	.00203	-.04643	-.00077	.00270	.00161	-.00001	-.00002
Stddev	.00003	.00039	.00200	.00500	.00075	.00044	.00107	.00004	.00040
%RSD	5.2150	35.553	98.693	10.768	97.265	16.287	66.637	296.18	2024.9
#1	.00060	.00136	.00344	-.04997	-.00024	.00239	.00085	-.00005	-.00030
#2	.00065	.00081	.00061	-.04290	-.00131	.00301	.00237	.00002	.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	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	.00521	.00006	.00075	.0024	.00168	-.00169	.00109	-.00008	-.00012
Stddev	.00332	.00057	.00008	.0006	.00015	.00114	.00348	.00002	.00009
%RSD	63.593	1003.2	10.231	23.65	8.7156	67.753	319.88	20.045	78.646
#1	.00756	-.00035	.00080	.0020	.00158	-.00249	.00354	-.00007	-.00018
#2	.00287	.00046	.00070	.0028	.00179	-.00088	-.00137	-.00009	-.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	-.00020	.00062	-.00018	-.00020
Stddev	.00033	.00130	.00025	.00025
%RSD	169.99	209.21	142.51	126.55
#1	.00004	.00155	-.00036	-.00038
#2	-.00043	-.00030	.00000	-.00002
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	4090.2	7004.0	64229.	8739.5
Stddev	1.3	7.7	65.	73.3
%RSD	.03161	.11057	.10165	.83847
#1	4091.1	7009.5	64183.	8791.3
#2	4089.2	6998.6	64275.	8687.7

Sample Name: CCV Acquired: 12/21/2012 20:46:43 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	.49343	25.198	.50862	.50490	.51841	.49634	25.971	.50474	.51150	.49733	.50621	23.749	25.200
Stddev	.00090	.124	.00444	.00562	.00151	.00533	.139	.00528	.00435	.00073	.00011	.253	.217
%RSD	.18161	.49242	.87373	1.1136	.29182	1.0737	.53669	1.0457	.85002	.14599	.02226	1.0660	.85948
#1	.49406	25.110	.50547	.50092	.51734	.49257	25.873	.50101	.50842	.49784	.50613	23.570	25.047
#2	.49280	25.285	.51176	.50888	.51948	.50011	26.070	.50848	.51457	.49682	.50629	23.928	25.353
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	25.769	.51530	24.009	.49981	.48828	24.674	.50665	.51683	24.52	.50781	.52120	23.345	.51075
Stddev	.417	.00439	.039	.00056	.00575	.216	.00396	.00821	.23	.00701	.00370	.256	.00465
%RSD	1.6180	.85230	.16072	.11182	1.1772	.87456	.78245	1.5882	.9580	1.3807	.70959	1.0946	.90959
#1	25.474	.51219	23.982	.49941	.48422	24.521	.50385	.51103	24.35	.50285	.51859	23.164	.50747
#2	26.064	.51840	24.036	.50020	.49235	24.826	.50946	.52264	24.69	.51277	.52382	23.526	.51404
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	.50512	.49330	.50510	.48275	.48961
Stddev	.00306	.00021	.00499	.00011	.00290
%RSD	.60593	.04257	.98795	.02176	.59239
#1	.50296	.49315	.50157	.48283	.48756
#2	.50728	.49345	.50862	.48268	.49166
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	3715.9	6783.0	61788.	8803.3
Stddev	29.7	50.8	113.	117.5
%RSD	.79931	.74940	.18311	1.3352
#1	3736.9	6819.0	61708.	8886.4
#2	3694.9	6747.1	61868.	8720.1

Sample Name: CCB Acquired: 12/21/2012 20:49:16 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	.00041	.00353	.00008	-.00049	.00001	.00020	.00782	.00008	.00010	.00071	.00063	.00377	-.06924
Stddev	.00038	.01488	.00061	.00076	.00001	.00001	.00409	.00009	.00013	.00007	.00004	.00210	.03286
%RSD	91.428	421.42	737.22	155.66	77.680	4.3862	52.287	107.55	136.00	9.9399	6.6718	55.598	47.460
#1	.00068	.01405	.00052	.00005	.00001	.00021	.00493	.00002	.00019	.00066	.00060	.00229	-.04601
#2	.00015	-.00699	-.00035	-.00102	.00000	.00020	.01071	.00014	.00000	.00076	.00066	.00526	-.09248
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	.00260	.00286	.00388	.00003	.00011	.01156	.00039	.00032	F .0056	.00121	-.00159	.01799	.00025
Stddev	.00015	.00135	.00265	.00001	.00022	.00553	.00024	.00051	.0001	.00233	.00024	.00869	.00022
%RSD	5.8839	47.057	68.195	32.844	201.06	47.821	60.264	158.63	1.448	192.36	15.238	48.333	86.576
#1	.00270	.00191	.00201	.00004	-.00005	.00765	.00056	.00069	.0055	-.00044	-.00177	.01184	.00041
#2	.00249	.00381	.00576	.00002	.00027	.01547	.00023	-.00004	.0056	.00286	-.00142	.02414	.00010
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	.00000	.00029	-.00048	-.00030	.00033
Stddev	.0001	.00000	.00028	.00004	.00001
%RSD	5929.5	1.5657	58.737	12.737	4.3337
#1	.00006	.00029	-.00028	-.00033	.00034
#2	-.00006	.00029	-.00068	-.00027	.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	4126.9	7081.9	64413.	8775.0
Stddev	2.3	7.2	69.	96.2
%RSD	.05482	.10168	.10735	1.0968
#1	4125.3	7076.8	64364.	8706.9
#2	4128.5	7087.0	64462.	8843.0

Sample Name: CRI-1107665 Acquired: 12/21/2012 20:51:42 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	.00305	.21460	.00923	.02348	.00196	.00216	.58450	.00106	.00395	.00462	.01106	.04987
Stddev	.00071	.01674	.00191	.00015	.00004	.00003	.00718	.00005	.00015	.00035	.00050	.00164
%RSD	23.247	7.8022	20.743	.61798	1.8058	1.5634	1.2281	4.6070	3.9064	7.6038	4.5584	3.2852
#1	.00255	.20276	.00787	.02338	.00199	.00218	.57943	.00103	.00406	.00437	.01142	.04871
#2	.00356	.22644	.01058	.02358	.00194	.00214	.58958	.00110	.00384	.00487	.01071	.05103
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	.43137	.40763	.03425	.21119	.00284	.01024	.99601	.00978	.00450	F .0563	.01926	.01457
Stddev	.00213	.00247	.00124	.00123	.00007	.00009	.00340	.00023	.00069	.0005	.00006	.00097
%RSD	.49312	.60547	3.6097	.58398	2.4652	.83363	.34097	2.3711	15.358	.9147	.28591	6.6675
#1	.43288	.40589	.03512	.21207	.00279	.01030	.99841	.00994	.00401	.0566	.01922	.01525
#2	.42987	.40938	.03338	.21032	.00289	.01018	.99361	.00961	.00498	.0559	.01930	.01388
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	.52090	W .00575	.00541	.00511	.01835	.00470	.01113
Stddev	.00826	.00026	.00010	.00007	.00013	.00015	.00025
%RSD	1.5849	4.5735	1.8804	1.3555	.69867	3.2880	2.2143
#1	.51507	.00594	.00548	.00516	.01844	.00459	.01130
#2	.52674	.00557	.00534	.00507	.01826	.00481	.01096
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	4097.3	7046.2	64301.	8865.6
Stddev	1.6	5.7	48.	1.2
%RSD	.03934	.08128	.07440	.01346
#1	4096.1	7050.3	64267.	8864.8
#2	4098.4	7042.2	64335.	8866.4

Sample Name: ICSA-1101769 Acquired: 12/21/2012 20:54:03 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	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00059	495.98	.00290	-.00112	.00025	-.00004	478.81	-.00080	-.00075	.00279	.00297	179.00	-.05479
Stddev	.00093	1.74	.00252	.00070	.00002	.00000	5.75	.00011	.00002	.00066	.00030	.61	.03365
%RSD	158.38	.35039	86.764	62.310	8.4237	5.8782	1.2010	13.683	2.7251	23.547	10.026	.34258	61.420
#1	.00125	494.75	.00112	-.00063	.00023	-.00004	474.74	-.00072	-.00077	.00325	.00276	178.56	-.03099
#2	-.00007	497.21	.00468	-.00161	.00026	-.00004	482.88	-.00088	-.00074	.00232	.00318	179.43	-.07858
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	.00215	.00615	502.05	.00135	-.00031	.00518	.00658	.00184	F -.1484	-.00870	.00498	.00636	.00141
Stddev	.00047	.00074	1.24	.00011	.00047	.00396	.00016	.00035	.0029	.00612	.00413	.00352	.00064
%RSD	21.971	12.061	.24767	8.1502	151.07	76.516	2.4695	18.894	1.942	70.338	82.818	55.427	45.625
#1	.00248	.00562	502.93	.00143	-.00065	.00798	.00669	.00208	-.1463	-.01302	.00206	.00386	.00187
#2	.00181	.00667	501.17	.00127	.00002	.00238	.00646	.00159	-.1504	-.00437	.00790	.00885	.00096
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	.00542	.00441	-.00288	-.00196	.00183
Stddev	.00001	.00004	.00457	.00038	.00034
%RSD	.16111	.89748	158.78	19.149	18.627
#1	.00542	.00444	-.00611	-.00170	.00159
#2	.00541	.00438	.00035	-.00223	.00207
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	3010.6	6061.5	54511.	8423.6
Stddev	9.9	25.0	64.	76.4
%RSD	.32987	.41178	.11744	.90664
#1	3017.6	6079.2	54466.	8477.7
#2	3003.6	6043.9	54556.	8369.6

Sample Name: ICSAB-1086099 Acquired: 12/21/2012 20:56:27 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
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21726	507.59	.10882	.00099	.51501	.49276	474.72	1.0307	.51092	.49106	.54012	89.176
Stddev	.00068	2.97	.00261	.00077	.00339	.00403	3.68	.0053	.00247	.00144	.00285	.272
%RSD	.31440	.58601	2.3960	78.331	.65794	.81776	.77425	.51024	.48381	.29407	.52704	.30546
#1	.21774	509.70	.11066	.00154	.51741	.49561	477.32	1.0270	.50917	.49003	.53810	89.369
#2	.21677	505.49	.10697	.00044	.51262	.48991	472.12	1.0344	.51267	.49208	.54213	88.983
Check ?	Chk Pass	Chk Pass	Chk Pass	None	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	-.08297	.01361	.53993	522.09	.47838	-.00011	.08398	1.0014	.05451	F -.1312	.60484	F .06286
Stddev	.01955	.00026	.00417	4.60	.00330	.00024	.00215	.0032	.00103	.0070	.00345	.00436
%RSD	23.564	1.8817	.77262	.88093	.69068	222.61	2.5624	.32038	1.8963	5.322	.57109	6.9388
#1	-.06915	.01379	.54288	518.84	.47605	.00006	.08246	.99913	.05378	-.1361	.60240	.06595
#2	-.09680	.01343	.53698	525.35	.48072	-.00027	.08550	1.0037	.05524	-.1262	.60728	.05978
Check ?	None	None	None	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value										.2000		.05000
Range										-20.00%		20.000%

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.99525	.00062	.50316	.00410	.09643	.48688	.97263
Stddev	.00782	.00054	.00482	.00006	.00158	.00376	.00333
%RSD	.78592	86.878	.95751	1.5416	1.6414	.77264	.34278
#1	.98972	.00024	.50657	.00415	.09755	.48422	.97027
#2	1.0008	.00100	.49976	.00406	.09531	.48954	.97498
Check ?	Chk Pass	None	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	3035.7	6112.3	54239.	8469.3
Stddev	4.7	10.2	323.	42.1
%RSD	.15361	.16677	.59570	.49668
#1	3039.0	6119.5	54468.	8439.6
#2	3032.4	6105.1	54011.	8499.1

Sample Name: CCV Acquired: 12/21/2012 20:58:46 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	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48621	25.243	.50104	.49906	.51811	.49937	25.867	.50184	.50488	.49101	.49783	23.893	25.357
Stddev	.00228	.072	.00062	.00306	.00048	.00345	.081	.00200	.00077	.00004	.00039	.129	.065
%RSD	.46977	.28616	.12443	.61375	.09323	.69115	.31220	.39765	.15166	.00797	.07908	.54097	.25562
#1	.48783	25.294	.50148	.49689	.51776	.50181	25.924	.50043	.50434	.49104	.49756	23.984	25.403
#2	.48460	25.192	.50060	.50122	.51845	.49693	25.810	.50325	.50542	.49099	.49811	23.802	25.311
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	26.100	.51775	23.774	.49455	.48923	25.147	.50326	.51279	24.34	.50483	.51223	23.805	.51120
Stddev	.129	.00367	.020	.00081	.00061	.139	.00212	.00030	.05	.00043	.00332	.016	.00102
%RSD	.49308	.70817	.08575	.16378	.12541	.55361	.42108	.05813	.1861	.08601	.64746	.06759	.19994
#1	26.191	.52034	23.789	.49513	.48879	25.246	.50176	.51300	24.31	.50452	.50989	23.816	.51048
#2	26.009	.51516	23.760	.49398	.48966	25.049	.50475	.51258	24.37	.50514	.51458	23.793	.51192
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	.50779	.49127	.50093	.48218	.48719
Stddev	.00201	.00176	.00262	.00048	.00144
%RSD	.39662	.35798	.52207	.10057	.29508
#1	.50922	.49003	.49908	.48183	.48617
#2	.50637	.49252	.50278	.48252	.48820
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	3717.8	6795.5	62140.	8724.6
Stddev	11.6	23.0	216.	41.7
%RSD	.31187	.33843	.34716	.47779
#1	3726.0	6811.8	62293.	8695.2
#2	3709.6	6779.3	61988.	8754.1

Sample Name: CCB Acquired: 12/21/2012 21:00:55 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	.00021	.01213	-.00102	-.00032	.00000	.00022	.01617	.00003	.00008	-.00001	.00042	.00539	-.01374
Stddev	.00004	.00832	.00052	.00034	.0000	.00004	.00183	.00003	.00021	.00021	.00035	.00152	.02334
%RSD	16.773	68.545	51.365	107.37	242.48	19.312	11.347	96.431	269.61	2218.2	83.814	28.220	169.82
#1	.00019	.01802	-.00139	-.00056	-.00001	.00026	.01487	.00005	-.00007	-.00016	.00017	.00646	.00276
#2	.00024	.00625	-.00065	-.00008	.00000	.00019	.01747	.00001	.00023	.00014	.00067	.00431	-.03025
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	.00183	.00201	.01439	.00000	.00005	.02169	.00047	.00033	.0021	.00183	-.00165	.00911	.00035
Stddev	.00068	.00083	.00194	.00003	.00037	.00671	.00012	.00018	.0006	.00310	.00486	.01385	.00051
%RSD	37.289	41.206	13.488	913.66	823.38	30.935	25.520	52.970	30.33	169.13	295.32	152.06	143.46
#1	.00231	.00260	.01577	-.00002	.00031	.02644	.00039	.00021	.0026	-.00036	.00179	-.00068	-.00001
#2	.00135	.00143	.01302	.00003	-.00022	.01695	.00055	.00046	.0017	.00403	-.00509	.01890	.00071
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	.00000	.00036	-.00183	.00023	.00031
Stddev	.00014	.00006	.00088	.00012	.00021
%RSD	11002.	17.981	48.201	52.100	70.427
#1	-.00010	.00040	-.00245	.00015	.00015
#2	.00010	.00031	-.00120	.00032	.00046
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	4069.3	6993.0	63567.	8663.7
Stddev	13.6	11.4	120.	91.6
%RSD	.33318	.16355	.18833	1.0571
#1	4078.8	7001.1	63482.	8598.9
#2	4059.7	6984.9	63652.	8728.4

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-29598-1

SDG No.:

Batch Number: 97077 Batch Start Date: 12/21/12 12:30 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 480-97077/1		3050B, 6010		CALC NOT SET TO RUN	+0.4794 g	50 mL			
LCSSRM 480-97077/2		3050B, 6010		CALC NOT SET TO RUN	+0.4994 g	50 mL			
LCDSRM 480-97077/3		3050B, 6010		CALC NOT SET TO RUN	+0.5007 g	50 mL			
480-29598-D-7	OC-SB-528-0.0/1.0-XXX	3050B, 6010	T	CALC NOT SET TO RUN	+0.4634 g	50 mL			
480-29598-B-8	OC-SB-528-1.0/3.0-XXX	3050B, 6010	T	CALC NOT SET TO RUN	+0.4662 g	50 mL			
480-29598-B-8 MS	OC-SB-528-1.0/3.0-XXX	3050B, 6010	T	CALC NOT SET TO RUN	+0.4741 g	50 mL	0.5 mL	0.5 mL	0.5 mL
480-29598-B-8 MSD	OC-SB-528-1.0/3.0-XXX	3050B, 6010	T	CALC NOT SET TO RUN	+0.5284 g	50 mL	0.5 mL	0.5 mL	0.5 mL
480-29598-B-11	OC-DUP-2	3050B, 6010	T	CALC NOT SET TO RUN	+0.4994 g	50 mL			

Lab Sample ID	Client Sample ID	Method Chain	Basis	MED_03_Ag 00026	MED_04_Sn 00024	MED_SRM_D078 00003	AnalysisComment		
MB 480-97077/1		3050B, 6010							
LCSSRM 480-97077/2		3050B, 6010				0.5 mL			
LCDSRM 480-97077/3		3050B, 6010				0.5 mL			
480-29598-D-7	OC-SB-528-0.0/1.0-XXX	3050B, 6010	T				MCP		
480-29598-B-8	OC-SB-528-1.0/3.0-XXX	3050B, 6010	T				MCP		
480-29598-B-8 MS	OC-SB-528-1.0/3.0-XXX	3050B, 6010	T	0.5 mL	0.5 mL		MCP		
480-29598-B-8 MSD	OC-SB-528-1.0/3.0-XXX	3050B, 6010	T	0.5 mL	0.5 mL		MCP		
480-29598-B-11	OC-DUP-2	3050B, 6010	T				MCP		

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.: 480-29598-1

SDG No.:

Batch Number: 97077 Batch Start Date: 12/21/12 12:30 Batch Analyst: Setang, Steven

Batch Method: 3050B Batch End Date:

Batch Notes	
Balance ID	25850472
Batch Comment	20313762
Blank Soil Lot Number	868632
First End time	1430
Hydrogen peroxide lot number	K20J00
Lot # of hydrochloric acid	0000016213
Lot # of Nitric Acid	21587
Hot Block ID number	-F-
Oven, Bath or Block Temperature 1	94.3 Degrees C
Oven, Bath or Block Temperature 2	auto temp control Degrees C
Pipette ID	MDL-4
First Start time	1230
ID number of the thermometer	111404326
Digestion Tube/Cup Lot #	1207143
Uncorrected Temperature	93.8 Celsius
Uncorrected Temperature 2	auto temp control 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.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-29598-1

SDG No.:

Project: Olin Chemical Wilmington MA Superfund

Client Sample ID	Lab Sample ID
OC-DUP-2	480-29598-11

Comments:

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 480-29598-1

SDG No.:

Project: Olin Chemical Wilmington MA Superfund

Client Sample ID	Lab Sample ID
OC-SS-524-0.0/1.0-XXX	480-29598-1
OC-SS-525-0.0/1.0-XXX	480-29598-2
OC-SB-526-0.0/1.0-XXX	480-29598-3
OC-SB-526-1.0/3.0-XXX	480-29598-4
OC-SB-527-0.0/1.0-XXX	480-29598-5
OC-SB-527-1.0/3.0-XXX	480-29598-6
OC-SB-528-0.0/1.0-XXX	480-29598-7
OC-SB-528-1.0/3.0-XXX	480-29598-8
OC-SB-529-0.0/1.0-XXX	480-29598-9
OC-SB-529-1.0/3.0-XXX	480-29598-10

Comments:

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Westfield Job Number: 480-29598-1

SDG No.:

Project: Olin Chemical Wilmington MA Superfund

Client Sample ID	Lab Sample ID
OC-SS-524-0.0/1.0-XXX	480-29598-1
OC-SS-525-0.0/1.0-XXX	480-29598-2
OC-SB-526-0.0/1.0-XXX	480-29598-3
OC-SB-526-1.0/3.0-XXX	480-29598-4
OC-SB-527-0.0/1.0-XXX	480-29598-5
OC-SB-527-1.0/3.0-XXX	480-29598-6
OC-SB-528-0.0/1.0-XXX	480-29598-7
OC-SB-528-1.0/3.0-XXX	480-29598-8
OC-SB-529-0.0/1.0-XXX	480-29598-9
OC-SB-529-1.0/3.0-XXX	480-29598-10

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: OC-SS-524-0.0/1.0-XXX
Lab Sample ID: 480-29598-1
Lab Name: TestAmerica Edison
Job No.: 480-29598-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/05/2012 09:20
Reporting Basis: DRY
Date Received: 12/05/2012 18:15
% Solids: 45.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Chromium (hexavalent)	ND	4.4	3.2	mg/Kg			10	7199

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: OC-SS-525-0.0/1.0-XXX
Lab Sample ID: 480-29598-2
Lab Name: TestAmerica Edison
Job No.: 480-29598-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/05/2012 09:45
Reporting Basis: DRY
Date Received: 12/05/2012 18:15
% Solids: 66.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Chromium (hexavalent)	ND	3.0	2.2	mg/Kg			10	7199

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: OC-SB-526-0.0/1.0-XXX
Lab Sample ID: 480-29598-3
Lab Name: TestAmerica Edison
Job No.: 480-29598-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/05/2012 10:40
Reporting Basis: DRY
Date Received: 12/05/2012 18:15
% Solids: 58.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Chromium (hexavalent)	ND	3.4	2.5	mg/Kg			10	7199

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: OC-SB-526-1.0/3.0-XXX
Lab Sample ID: 480-29598-4
Lab Name: TestAmerica Edison
Job No.: 480-29598-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/05/2012 10:45
Reporting Basis: DRY
Date Received: 12/05/2012 18:15
% Solids: 74.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Chromium (hexavalent)	ND	2.7	1.9	mg/Kg			10	7199

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: OC-SB-527-0.0/1.0-XXX
Lab Sample ID: 480-29598-5
Lab Name: TestAmerica Edison
Job No.: 480-29598-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/05/2012 13:35
Reporting Basis: DRY
Date Received: 12/05/2012 18:15
% Solids: 70.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Chromium (hexavalent)	ND	2.9	2.1	mg/Kg			10	7199

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: OC-SB-527-1.0/3.0-XXX
Lab Sample ID: 480-29598-6
Lab Name: TestAmerica Edison
Job No.: 480-29598-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/05/2012 13:40
Reporting Basis: DRY
Date Received: 12/05/2012 18:15
% Solids: 68.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Chromium (hexavalent)	ND	2.9	2.1	mg/Kg			10	7199

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: OC-SB-528-0.0/1.0-XXX
Lab Sample ID: 480-29598-7
Lab Name: TestAmerica Edison
Job No.: 480-29598-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/05/2012 14:00
Reporting Basis: DRY
Date Received: 12/05/2012 18:15
% Solids: 27.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Chromium (hexavalent)	19	7.7	5.6	mg/Kg			10	7199

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: OC-SB-528-1.0/3.0-XXX
Lab Sample ID: 480-29598-8
Lab Name: TestAmerica Edison
Job No.: 480-29598-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/05/2012 14:05
Reporting Basis: DRY
Date Received: 12/05/2012 18:15
% Solids: 41.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Chromium (hexavalent)	4.0	4.8	3.5	mg/Kg	J		10	7199

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: OC-SB-529-0.0/1.0-XXX
Lab Sample ID: 480-29598-9
Lab Name: TestAmerica Edison
Job No.: 480-29598-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/05/2012 12:30
Reporting Basis: DRY
Date Received: 12/05/2012 18:15
% Solids: 59.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Chromium (hexavalent)	ND	3.3	2.4	mg/Kg			10	7199

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: OC-SB-529-1.0/3.0-XXX
Lab Sample ID: 480-29598-10
Lab Name: TestAmerica Edison
Job No.: 480-29598-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/05/2012 12:35
Reporting Basis: DRY
Date Received: 12/05/2012 18:15
% Solids: 79.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Chromium (hexavalent)	ND	2.4	1.8	mg/Kg			10	7199

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SS-524-0.0/1.0-XXX
Lab Sample ID: 480-29598-1
Lab Name: TestAmerica Westfield
Job No.: 480-29598-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/05/2012 09:20
Reporting Basis: WET
Date Received: 12/05/2012 18:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	3.36	1.00		SU			1	9045C
	Oxidation Reduction Potential	110	0.010		millivolts			1	SM 2580B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SS-525-0.0/1.0-XXX
Lab Sample ID: 480-29598-2
Lab Name: TestAmerica Westfield
Job No.: 480-29598-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/05/2012 09:45
Reporting Basis: WET
Date Received: 12/05/2012 18:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	4.07	1.00		SU			1	9045C
	Oxidation Reduction Potential	99	0.010		millivolts			1	SM 2580B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SB-526-0.0/1.0-XXX
Lab Sample ID: 480-29598-3
Lab Name: TestAmerica Westfield
Job No.: 480-29598-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/05/2012 10:40
Reporting Basis: WET
Date Received: 12/05/2012 18:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	4.04	1.00		SU			1	9045C
	Oxidation Reduction Potential	75	0.010		millivolts			1	SM 2580B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SB-526-1.0/3.0-XXX
Lab Sample ID: 480-29598-4
Lab Name: TestAmerica Westfield
Job No.: 480-29598-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/05/2012 10:45
Reporting Basis: WET
Date Received: 12/05/2012 18:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	4.33	1.00		SU			1	9045C
	Oxidation Reduction Potential	82	0.010		millivolts			1	SM 2580B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SB-527-0.0/1.0-XXX
Lab Sample ID: 480-29598-5
Lab Name: TestAmerica Westfield
Job No.: 480-29598-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/05/2012 13:35
Reporting Basis: WET
Date Received: 12/05/2012 18:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	3.73	1.00		SU			1	9045C
	Oxidation Reduction Potential	79	0.010		millivolts			1	SM 2580B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SB-527-1.0/3.0-XXX
Lab Sample ID: 480-29598-6
Lab Name: TestAmerica Westfield
Job No.: 480-29598-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/05/2012 13:40
Reporting Basis: WET
Date Received: 12/05/2012 18:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	3.85	1.00		SU			1	9045C
	Oxidation Reduction Potential	73	0.010		millivolts			1	SM 2580B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SB-528-0.0/1.0-XXX
Lab Sample ID: 480-29598-7
Lab Name: TestAmerica Westfield
Job No.: 480-29598-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/05/2012 14:00
Reporting Basis: WET
Date Received: 12/05/2012 18:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	6.02	1.00		SU			1	9045C
	Oxidation Reduction Potential	ND	0.010		millivolts			1	SM 2580B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SB-528-1.0/3.0-XXX
Lab Sample ID: 480-29598-8
Lab Name: TestAmerica Westfield
Job No.: 480-29598-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/05/2012 14:05
Reporting Basis: WET
Date Received: 12/05/2012 18:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	6.15	1.00		SU			1	9045C
	Oxidation Reduction Potential	ND	0.010		millivolts			1	SM 2580B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SB-529-0.0/1.0-XXX
Lab Sample ID: 480-29598-9
Lab Name: TestAmerica Westfield
Job No.: 480-29598-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/05/2012 12:30
Reporting Basis: WET
Date Received: 12/05/2012 18:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	3.88	1.00		SU			1	9045C
	Oxidation Reduction Potential	49	0.010		millivolts			1	SM 2580B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SB-529-1.0/3.0-XXX
Lab Sample ID: 480-29598-10
Lab Name: TestAmerica Westfield
Job No.: 480-29598-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/05/2012 12:35
Reporting Basis: WET
Date Received: 12/05/2012 18:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	4.24	1.00		SU			1	9045C
	Oxidation Reduction Potential	34	0.010		millivolts			1	SM 2580B

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 480-29598-1

SDG No.:

Analyst: SEB Batch Start Date: 12/12/2012

Reporting Units: ug/L Analytical Batch No.: 139572

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
6	ICV	21:40	Chromium (hexavalent)	24.9	25.0	100	90-110		WThcrIM6_00433
7	ICB	21:48	Chromium (hexavalent)	0.379				J	
18	CCV	23:19	Chromium (hexavalent)	25.5	25.0	102	90-110		WThcrIM6_00433
19	CCB	23:27	Chromium (hexavalent)	ND					
30	CCV	00:58	Chromium (hexavalent)	25.5	25.0	102	90-110		WThcrIM6_00433
31	CCB	01:06	Chromium (hexavalent)	ND					
42	CCV	02:38	Chromium (hexavalent)	24.8	25.0	99	90-110		WThcrIM6_00433
43	CCB	02:46	Chromium (hexavalent)	0.544				J	
44	CCV	08:27	Chromium (hexavalent)	24.2	25.0	97	90-110		WThcrIM6_00433
45	CCB	08:35	Chromium (hexavalent)	ND					
50	CCV	09:16	Chromium (hexavalent)	25.7	25.0	103	90-110		WThcrIM6_00433
51	CCB	09:24	Chromium (hexavalent)	0.509				J	

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.: 480-29598-1

SDG No.:

Analyst: GRB Batch Start Date: 12/06/2012

Reporting Units: SU Analytical Batch No.: 97368

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
12	CCV	09:57	pH	6.970	7.00	100	90-110		W12H_PH_7_00001
14	CCV	17:00	pH	7.020	7.00	100	90-110		W12H_PH_7_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 Edison Job No.: 480-29598-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 139572	Date: 12/12/2012 21:56	Prep Batch: 139400	Date: 12/12/2012 11:54				
7199	MB 460-139400/1-A ^10	Chromium (hexavalent)	ND		mg/Kg	2.0	10

FORM III-IN

5-IN
MATRIX SPIKE SOLUBLE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 480-29598-1

SDG No.:

Matrix: Solid

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 139572		Date: 12/12/2012 23:44	Prep Batch: 139400			Date: 12/12/2012 11:54					
7199	480-29598-4	Chromium (hexavalent)	ND		mg/Kg						
7199	480-29598-4 MSS	Chromium (hexavalent)	47.1		mg/Kg	53.4	88	75-125			
Batch ID: 139572		Date: 12/13/2012 00:00	Prep Batch: 139400			Date: 12/12/2012 11:54					
7199	480-29598-4	Chromium (hexavalent)	ND		mg/Kg						
7199	480-29598-4 MSI	Chromium (hexavalent)	930		mg/Kg	946	98	75-125			
Batch ID: 139572		Date: 12/13/2012 00:17	Prep Batch: 139400			Date: 12/12/2012 11:54					
7199	480-29598-4	Chromium (hexavalent)	ND		mg/Kg						
7199	480-29598-4 PDS	Chromium (hexavalent)	55.0		mg/Kg	53.4	103	85-115			

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 V-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 480-29598-1

SDG No.:

Matrix: Solid

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 139572	Date: 12/12/2012 23:03		Prep Batch: 139400	Date: 12/12/2012 11:54				
7199	OC-SB-526-1.0/3.0-XXX	480-29598-4	Chromium (hexavalent)	ND	mg/Kg			
7199	OC-SB-526-1.0/3.0-XXX	480-29598-4 DU	Chromium (hexavalent)	ND	mg/Kg	NC	20	

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

FORM VI-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Westfield Job No.: 480-29598-1

SDG No.:

Matrix: Solid

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 97368 Date: 12/06/2012 09:19								
9045C	OC-SS-525-0.0/1.0-XXX	480-29598-2	pH	4.07	SU			
9045C	OC-SS-525-0.0/1.0-XXX	480-29598-2 DU	pH	4.010	SU	1	10.0	
Batch ID: 97369 Date: 12/06/2012 09:19								
SM 2580B	OC-SS-525-0.0/1.0-XXX	480-29598-2	Oxidation Reduction Potential	99	millivolts			
SM 2580B	OC-SS-525-0.0/1.0-XXX	480-29598-2 DU	Oxidation Reduction Potential	96.0	millivolts	3	20	

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

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE SOLUBLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 480-29598-1

SDG No.:

Matrix: Solid

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 139572	Date: 12/12/2012 22:21		Prep Batch: 139400			Date: 12/12/2012 11:54					
						LCS Source: WThcrsLCS_00067					
7199	LCSS 460-139400/2-A ^25	Chromium (hexavalent)	11.9		mg/Kg	11.4	104	85-115			
Batch ID: 139572	Date: 12/12/2012 22:30		Prep Batch: 139400			Date: 12/12/2012 11:54					
						LCS Source: WThcrPbCr_00004					
7199	LCSI 460-139400/3-A ^500	Chromium (hexavalent)	707		mg/Kg	708	100	80-120			

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.: 480-29598-1

SDG No.:

Matrix: Solid

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 97368		Date: 12/06/2012 08:38									
						LCS Source:	W12H_PH_6_00001				
9045C	LCS 360-97366/1-A	pH	5.970		SU	6.00	100	90-110			
Batch ID: 97369		Date: 12/06/2012 09:01									
						LCS Source:	W12F_ORP_LCS_00001				
SM 2580B	LCS 360-97367/1-A	Oxidation Reduction Potential	421		millivolts	475	89	85-115			

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

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-29598-1

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: 480-29598-1

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

Lab Name: TestAmerica Edison Job Number: 480-29598-1

SDG Number:

Matrix: Solid Instrument ID: IC

Method: 7199 MDL Date: 12/22/2008 11:16

Prep Method: 3060A

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Chromium (hexavalent)		0.2	0.145

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 480-29598-1

SDG Number:

Matrix: Solid Instrument ID: IC

Method: 7199 XMDL Date: 12/22/2008 11:18

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Chromium (hexavalent)		5	0.109

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 480-29598-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 02/15/2007 17:07

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		1	
Percent Solids		1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 480-29598-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 01/01/2007 16:49

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		1	
Percent Solids		1	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY - SOLUBLE

Lab Name: TestAmerica Westfield Job Number: 480-29598-1

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: 480-29598-1

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: 480-29598-1

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: 480-29598-1

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 Edison Job No.: 480-29598-1

SDG No.:

Prep Method: 3060A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 460-139400/1-A ^10	12/12/2012 11:54	139400	2.50		100
LCSS 460-139400/2-A ^25	12/12/2012 11:54	139400	2.50		100
LCSI 460-139400/3-A ^500	12/12/2012 11:54	139400	2.50		100
480-29598-4	12/12/2012 11:54	139400	2.50		100
480-29598-4 DU	12/12/2012 11:54	139400	2.50		100
480-29598-4 MSS	12/12/2012 11:54	139400	2.50		100
480-29598-4 MSI	12/12/2012 11:54	139400	2.50		100
480-29598-1	12/12/2012 11:54	139400	2.51		100
480-29598-2	12/12/2012 11:54	139400	2.52		100
480-29598-3	12/12/2012 11:54	139400	2.53		100
480-29598-5	12/12/2012 11:54	139400	2.44		100
480-29598-6	12/12/2012 11:54	139400	2.55		100
480-29598-7	12/12/2012 11:54	139400	2.42		100
480-29598-8	12/12/2012 11:54	139400	2.54		100
480-29598-9	12/12/2012 11:54	139400	2.54		100
480-29598-10	12/12/2012 11:54	139400	2.59		100

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-29598-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 12/07/2012 15:01 End Date: 12/07/2012 15:01

Lab Sample ID	D/F	Type	Time	Analytes																			
				% Sol	Moist																		
480-29598-8MS	1	T	15:01	X	X																		
480-29598-8MSD	1	T	15:01	X	X																		
480-29598-11	1	T	15:01	X	X																		
ZZZZZZ			15:01																				
ZZZZZZ			15:01																				
ZZZZZZ			15:01																				
ZZZZZZ			15:01																				
ZZZZZZ			15:01																				
ZZZZZZ			15:01																				
ZZZZZZ			15:01																				
ZZZZZZ			15:01																				
ZZZZZZ			15:01																				
ZZZZZZ			15:01																				

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 480-29598-1

SDG No.:

Instrument ID: IC Method: 7199

Start Date: 12/12/2012 12:17 End Date: 12/13/2012 09:24

Lab Sample ID	D/F	Type	Time	Analytes																			
				Cr6																			
ZZZZZZ			12:17																				
ZZZZZZ			12:25																				
ZZZZZZ			12:33																				
ZZZZZZ			12:42																				
ZZZZZZ			12:50																				
ICV 460-139572/6	1		21:40	X																			
ICB 460-139572/7	1		21:48	X																			
MB 460-139400/1-A ^10	10	T	21:56	X																			
ZZZZZZ			22:05																				
ZZZZZZ			22:13																				
LCSS 460-139400/2-A ^25	25	T	22:21	X																			
LCSI 460-139400/3-A ^500	500	T	22:30	X																			
ZZZZZZ			22:38																				
480-29598-4	10	T	22:46	X																			
ZZZZZZ			22:54																				
480-29598-4 DU	10	T	23:03	X																			
ZZZZZZ			23:11																				
CCV 460-139572/18	1		23:19	X																			
CCB 460-139572/19	1		23:27	X																			
ZZZZZZ			23:36																				
480-29598-4 MSS	40	T	23:44	X																			
ZZZZZZ			23:52																				
480-29598-4 MSI	500	T	00:00	X																			
ZZZZZZ			00:08																				
480-29598-4 PDS	40	T	00:17	X																			
480-29598-1	10	T	00:25	X																			
ZZZZZZ			00:33																				
ZZZZZZ			00:41																				
480-29598-2	10	T	00:50	X																			
CCV 460-139572/30	1		00:58	X																			
CCB 460-139572/31	1		01:06	X																			
ZZZZZZ			01:15																				
480-29598-3	10	T	01:23	X																			
480-29598-5	10	T	01:31	X																			
ZZZZZZ			01:40																				
480-29598-6	10	T	01:48	X																			
ZZZZZZ			01:56																				
480-29598-7	10	T	02:05	X																			
ZZZZZZ			02:13																				
480-29598-8	10	T	02:21	X																			
ZZZZZZ			02:30																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 480-29598-1

SDG No.:

Instrument ID: IC Method: 7199

Start Date: 12/12/2012 12:17 End Date: 12/13/2012 09:24

Lab Sample ID	D/F	Type	Time	Analytes																			
				Cr6																			
CCV 460-139572/42	1		02:38	X																			
CCB 460-139572/43	1		02:46	X																			
CCV 460-139572/44	1		08:27	X																			
CCB 460-139572/45	1		08:35	X																			
480-29598-9	10	T	08:43	X																			
ZZZZZZ			08:51																				
480-29598-10	10	T	09:00	X																			
ZZZZZZ			09:08																				
CCV 460-139572/50	1		09:16	X																			
CCB 460-139572/51	1		09:24	X																			

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 480-29598-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 12/09/2012 11:55 End Date: 12/09/2012 11:55

Lab Sample ID	D/F	Type	Time	Analytes																			
				% Sol	Moist																		
ZZZZZZ			11:55																				
ZZZZZZ			11:55																				
ZZZZZZ			11:55																				
ZZZZZZ			11:55																				
ZZZZZZ			11:55																				
ZZZZZZ			11:55																				
ZZZZZZ			11:55																				
ZZZZZZ			11:55																				
ZZZZZZ			11:55																				
ZZZZZZ			11:55																				
ZZZZZZ			11:55																				
ZZZZZZ			11:55																				
ZZZZZZ			11:55																				
ZZZZZZ			11:55																				
ZZZZZZ			11:55																				
ZZZZZZ			11:55																				
ZZZZZZ			11:55																				
480-29598-1	1	T	11:55	X	X																		
480-29598-2	1	T	11:55	X	X																		
480-29598-2 DU	1	T	11:55	X	X																		

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 480-29598-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 12/09/2012 12:15 End Date: 12/09/2012 12:15

Lab Sample ID	D/F	Type	Time	Analytes																			
				% Sol	Moist																		
ZZZZZZ			12:15																				
480-29598-3	1	T	12:15	X	X																		
480-29598-4	1	T	12:15	X	X																		
480-29598-5	1	T	12:15	X	X																		
480-29598-6	1	T	12:15	X	X																		
480-29598-7	1	T	12:15	X	X																		
480-29598-8	1	T	12:15	X	X																		
480-29598-9	1	T	12:15	X	X																		
480-29598-10	1	T	12:15	X	X																		
ZZZZZZ			12:15																				
ZZZZZZ			12:15																				
ZZZZZZ			12:15																				
ZZZZZZ			12:15																				
ZZZZZZ			12:15																				
ZZZZZZ			12:15																				
ZZZZZZ			12:15																				
ZZZZZZ			12:15																				
ZZZZZZ			12:15																				
ZZZZZZ			12:15																				
ZZZZZZ			12:15																				
ZZZZZZ			12:15																				

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Westfield Job No.: 480-29598-1

SDG No.:

Instrument ID: pH meter Method: 9045C

Start Date: 12/06/2012 08:38 End Date: 12/11/2012 09:27

Lab Sample ID	D/F	Type	Time	Analytes																			
				pH																			
LCS 360-97366/1-A	1	S	08:38	X																			
480-29598-1	1	S	09:09	X																			
480-29598-2	1	S	09:15	X																			
480-29598-2 DU	1	S	09:19	X																			
480-29598-3	1	S	09:24	X																			
480-29598-4	1	S	09:28	X																			
480-29598-5	1	S	09:32	X																			
480-29598-6	1	S	09:38	X																			
480-29598-7	1	S	09:42	X																			
480-29598-8	1	S	09:46	X																			
480-29598-9	1	S	09:51	X																			
CCV 360-97368/12	1		09:57	X																			
480-29598-10	1	S	10:01	X																			
CCV 360-97368/14	1		17:00	X																			
ZZZZZZ			09:27																				
ZZZZZZ			09:27																				
ZZZZZZ			09:27																				
ZZZZZZ			09:27																				
ZZZZZZ			09:27																				
ZZZZZZ			09:27																				

Prep Types
S = Soluble

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Westfield Job No.: 480-29598-1

SDG No.:

Instrument ID: NOEQUIP Method: SM 2580B

Start Date: 12/06/2012 09:01 End Date: 12/06/2012 10:01

Lab Sample ID	D/F	Type	Time	Analytes																			
				ORP																			
LCS 360-97367/1-A	1	S	09:01	X																			
480-29598-1	1	S	09:09	X																			
480-29598-2	1	S	09:15	X																			
480-29598-2 DU	1	S	09:19	X																			
480-29598-3	1	S	09:24	X																			
480-29598-4	1	S	09:28	X																			
480-29598-5	1	S	09:32	X																			
480-29598-6	1	S	09:38	X																			
480-29598-7	1	S	09:42	X																			
480-29598-8	1	S	09:46	X																			
480-29598-9	1	S	09:51	X																			
480-29598-10	1	S	10:01	X																			

Prep Types
S = Soluble

Report date: 12/13/2012 9:42:53 AM
Printed by: TestAmerica - Edison

Ident: 0.0
Analysis from: 12/12/2012 12:17:28 PM
File: wc121217.chw Last save: 12/13/2012 9:41:56 AM

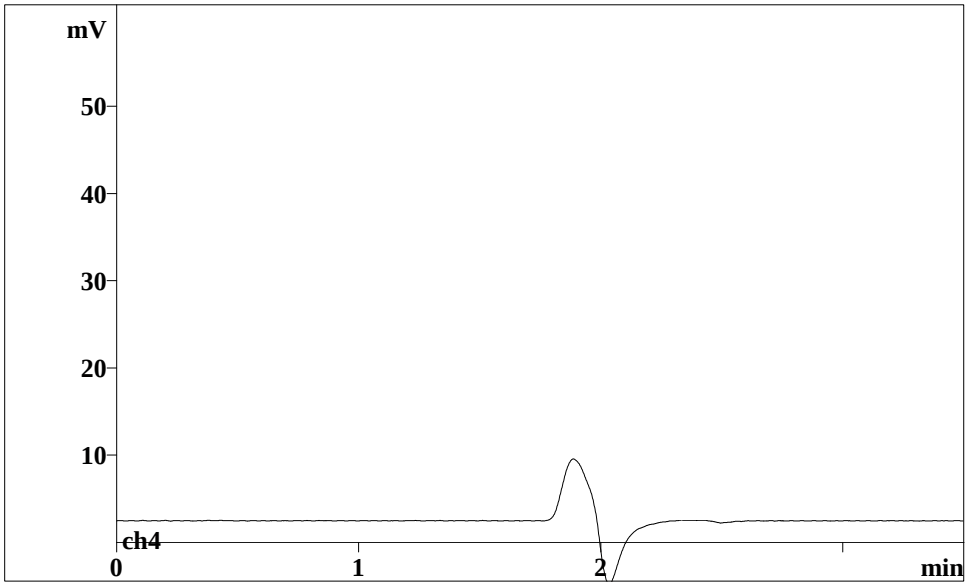
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40056

SAMPLE: 100ul loop
:
Vial number: 1
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 8.9 MPa



No peaks

Report date: 12/13/2012 9:43:00 AM
Printed by: TestAmerica - Edison

Ident: 5.0
Analysis from: 12/12/2012 12:25:41 PM
File: wc121225.chw Last save: 12/13/2012 9:41:56 AM

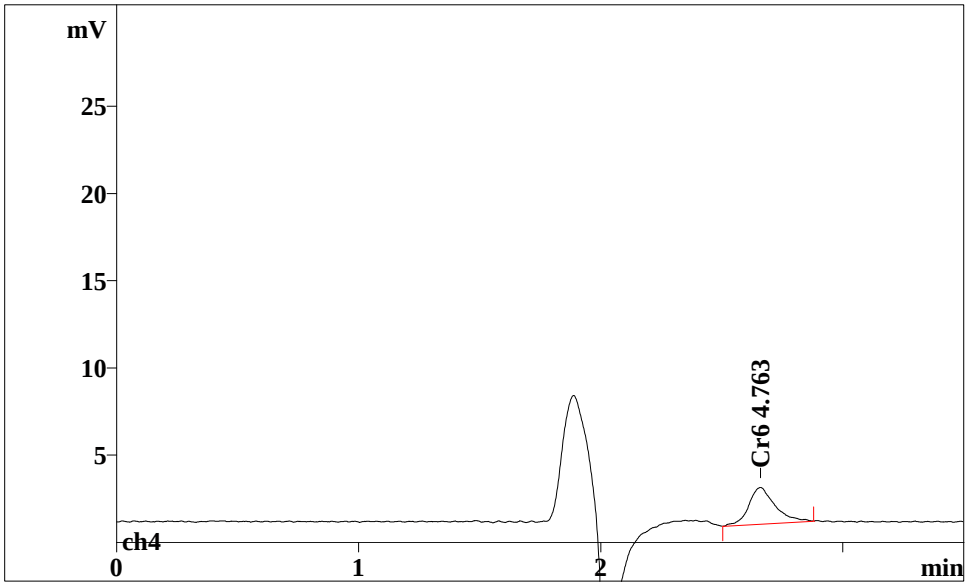
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40057

SAMPLE: 100ul loop
:
Vial number: 2
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.0 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.66;	0.109;	2.10;	99.85;	15.991;	100.00;	0.00;	0.00;	27

Report date: 12/13/2012 9:43:03 AM
Printed by: TestAmerica - Edison

Ident: 10.0
Analysis from: 12/12/2012 12:33:53 PM
File: wc121233.chw Last save: 12/13/2012 9:41:56 AM

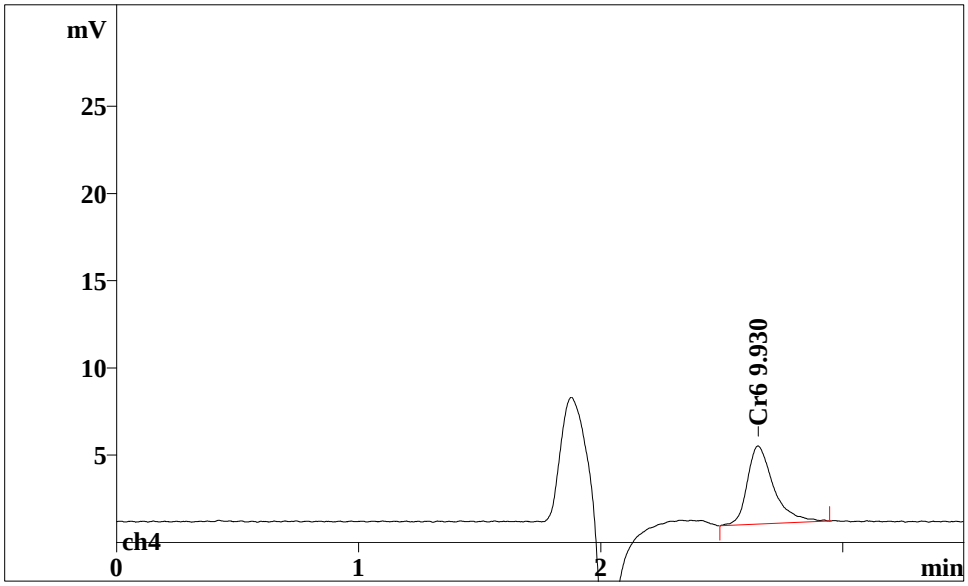
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40058

SAMPLE: 100ul loop
:
Vial number: 3
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.65;	0.108;	4.48;	99.88;	33.794;	100.00;	0.00;	0.00;	27

Report date: 12/13/2012 9:43:07 AM
Printed by: TestAmerica - Edison

Ident: 25.0
Analysis from: 12/12/2012 12:42:05 PM
File: wc121242.chw Last save: 12/13/2012 9:41:57 AM

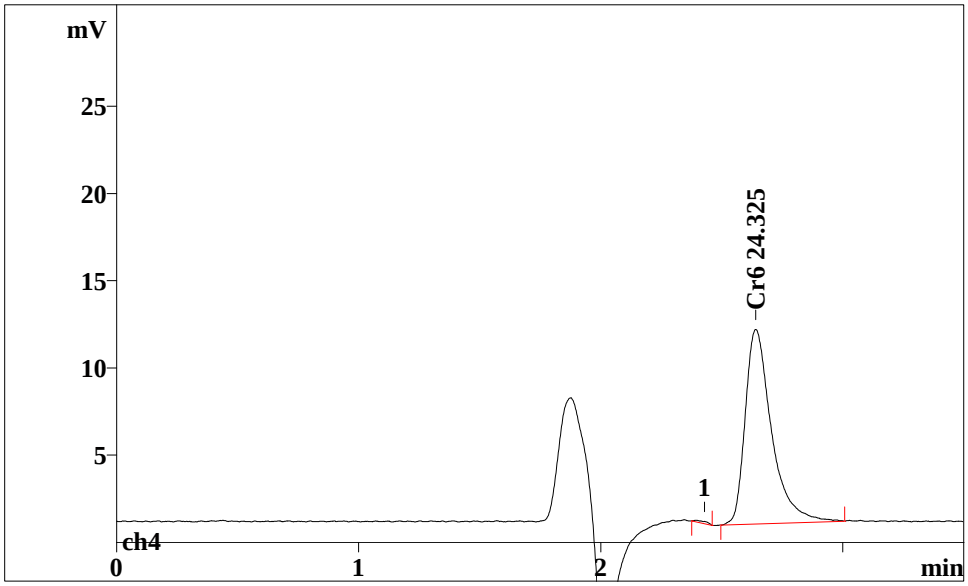
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40059

SAMPLE: 100ul loop
:
Vial number: 4
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.64;	0.109;	11.17;	98.81;	84.727;	99.50;	0.00;	0.00;	27

Report date: 12/13/2012 9:43:10 AM
Printed by: TestAmerica - Edison

Ident: 50.0
Analysis from: 12/12/2012 12:50:20 PM
File: wc121250.chw Last save: 12/13/2012 9:41:57 AM

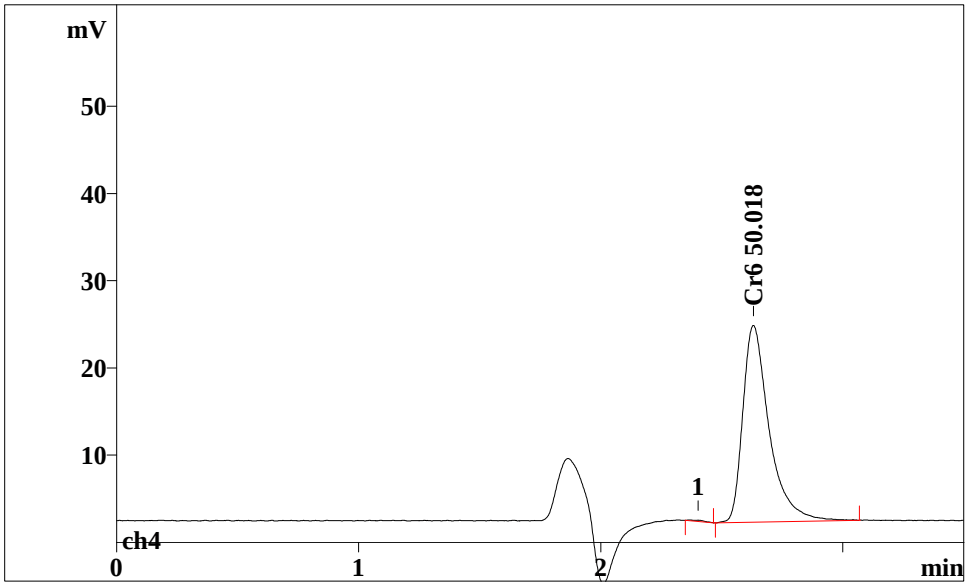
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40060

SAMPLE: 100ul loop
:
Vial number: 5
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

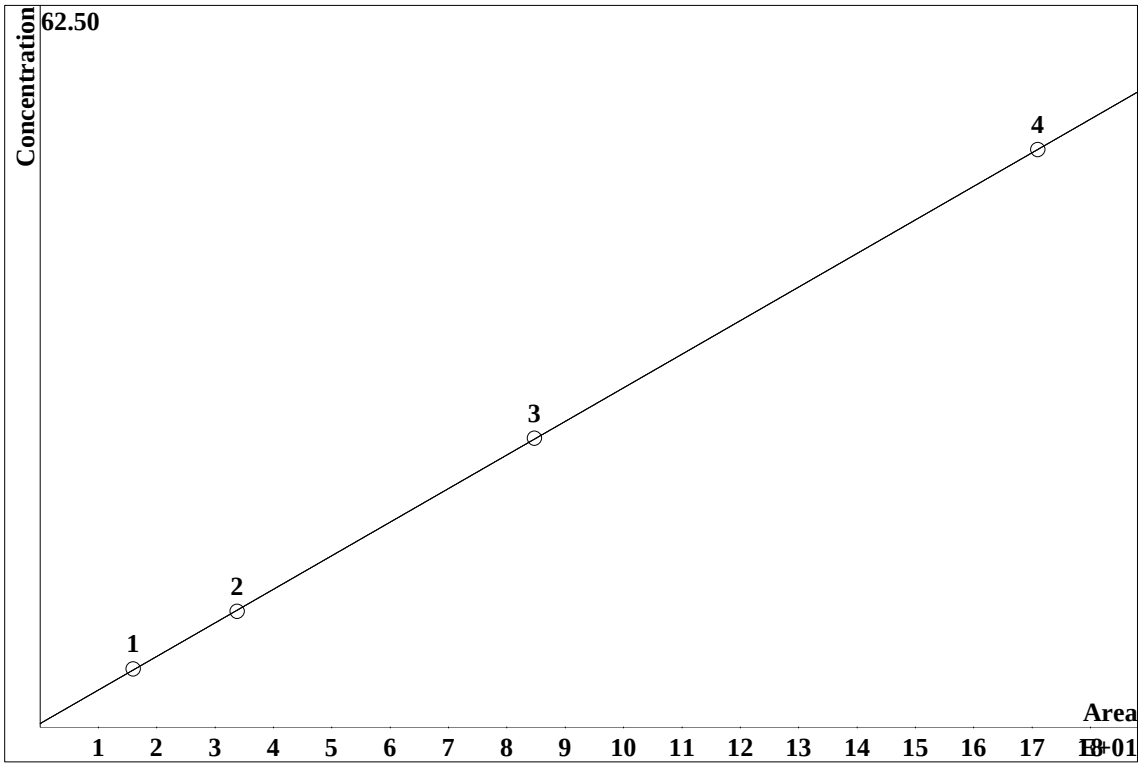
Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.63;	0.109;	22.57;	99.38;	170.986;	99.69;	0.00;	0.00;	27

CALIBRATION OF COMPONENT Cr6

Method: stl_hexchrome_soil.mtw
Equation: Q = 0.290855·A + 0.286177
RSD: 0.472 %
Correlation coefficient: 0.999991



K3 = 0 K2 = 0 K1 = 0.290855 K0 = 0.286177
Base: Area
Ref.channel: ch4
ISTD:
Formula: Linear
Weight: 1

Level	Height	Area	Conc.	Vol/Dil	Retention	Used	File
1;	2.106;	15.99;	5;	1;	2.779;	Yes;	WC121225.CHW
2;	4.484;	33.79;	10;	1;	2.779;	Yes;	WC121233.CHW
3;	11.17;	84.73;	25;	1;	2.779;	Yes;	WC121242.CHW
4;	22.56;	171;	50;	1;	2.779;	Yes;	WC121250.CHW

Report date: 12/13/2012 9:43:22 AM
Printed by: TestAmerica - Edison

Ident: ICV
Analysis from: 12/12/2012 9:40:13 PM
File: wc122140.chw Last save: 12/13/2012 9:41:57 AM

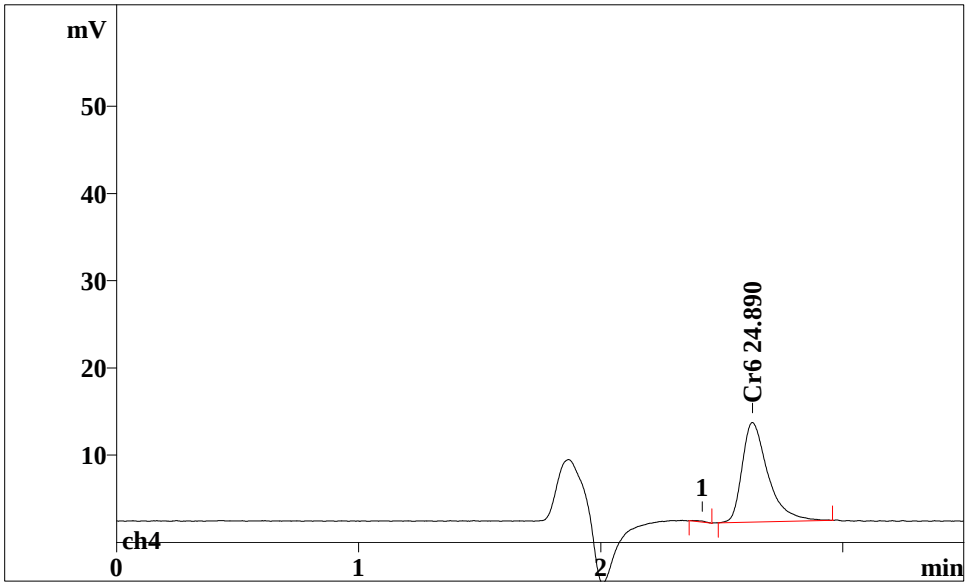
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40123

SAMPLE: 100ul loop
:
Vial number: 68
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 24.9°C
Pressure: 9.1 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.63;	0.108;	11.43;	98.95;	84.591;	99.57;	0.00;	0.00;	28

Report date: 12/13/2012 9:43:25 AM
Printed by: TestAmerica - Edison

Ident: ICB
Analysis from: 12/12/2012 9:48:33 PM
File: wc122148.chw Last save: 12/13/2012 9:41:57 AM

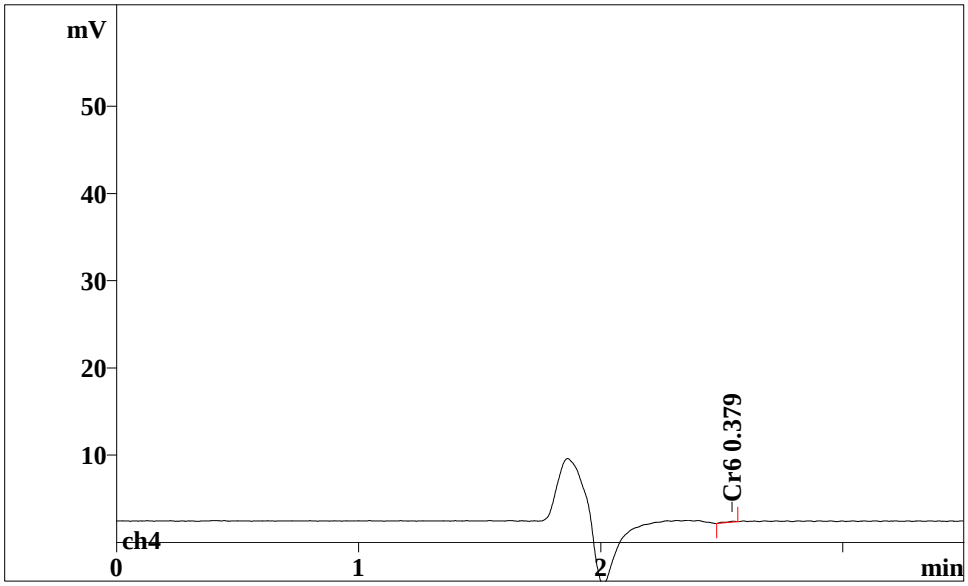
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40124

SAMPLE: 100ul loop
:
Vial number: 69
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.54;	0.053;	0.10;	99.32;	0.318;	100.00;	0.00;	0.00;	158

Report date: 12/13/2012 9:43:28 AM
Printed by: TestAmerica - Edison

Ident: MB 460-139400/1-A@10
Analysis from: 12/12/2012 9:56:53 PM
File: wc122156.chw Last save: 12/13/2012 9:41:57 AM

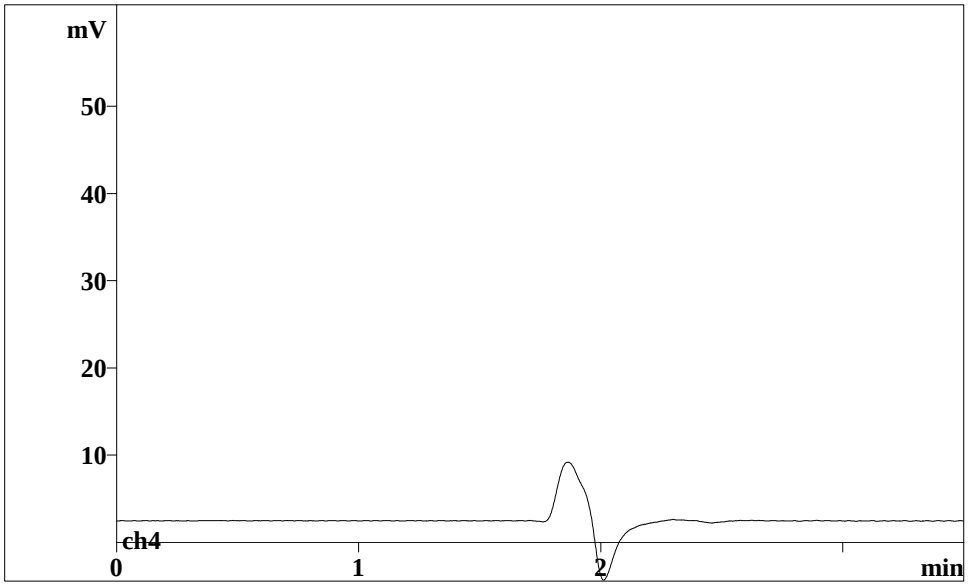
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40125

SAMPLE: 100ul loop
:
Vial number: 70
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No peaks

Report date: 12/13/2012 9:43:31 AM
Printed by: TestAmerica - Edison

Ident: MB 460-139400/1-A@10
Analysis from: 12/12/2012 10:05:12 PM
File: wc122205.chw Last save: 12/13/2012 9:41:58 AM

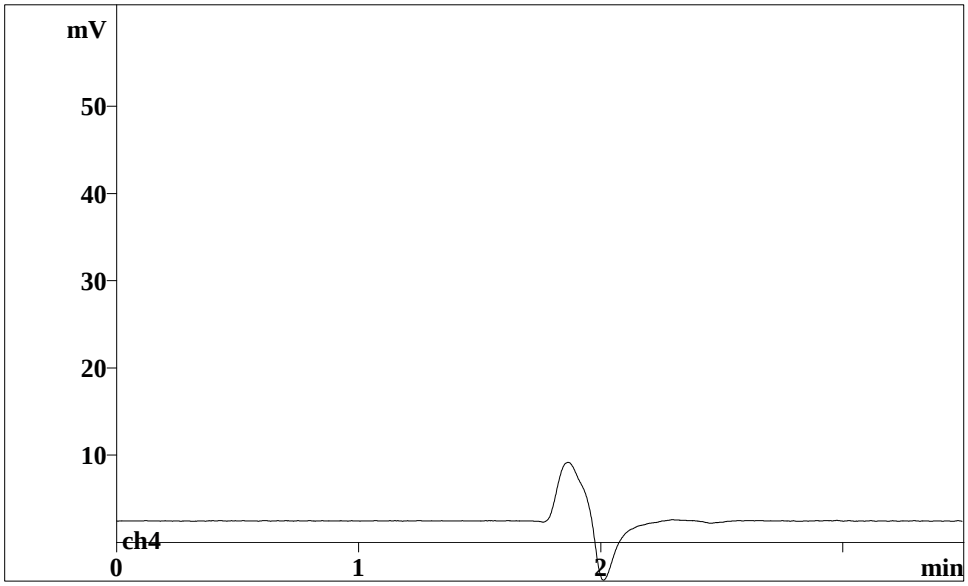
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40126

SAMPLE: 100ul loop
:
Vial number: 71
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No peaks

Report date: 12/13/2012 9:43:35 AM
Printed by: TestAmerica - Edison

Ident: LCSS 460-139400/2-A@25
Analysis from: 12/12/2012 10:13:31 PM
File: wc122213.chw Last save: 12/13/2012 9:41:58 AM

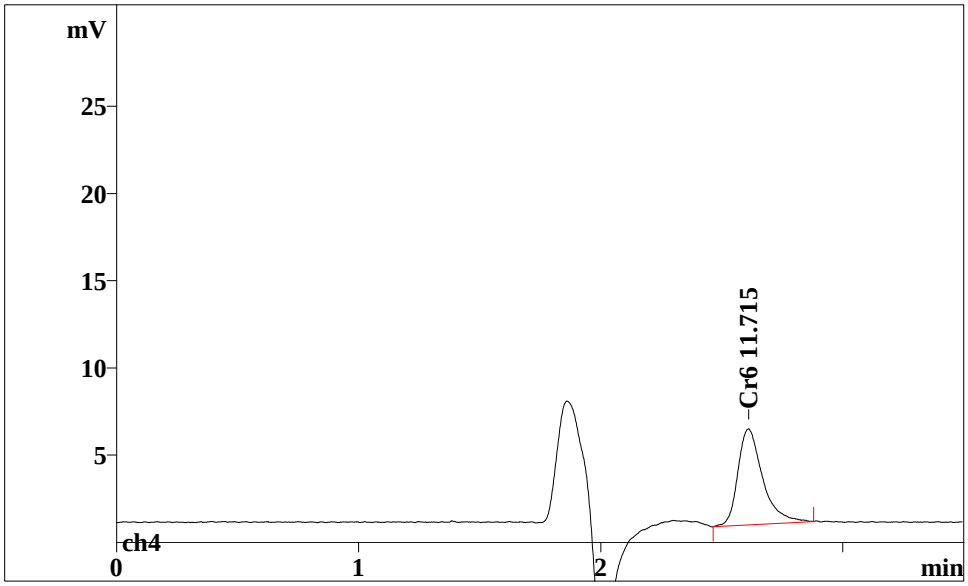
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40127

SAMPLE: 100ul loop
:
Vial number: 72
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.61;	0.104;	5.51;	99.89;	39.294;	100.00;	0.00;	0.00;	30

Report date: 12/13/2012 9:43:39 AM
Printed by: TestAmerica - Edison

Ident: LCSS 460-139400/2-A@25
Analysis from: 12/12/2012 10:21:50 PM
File: wc122221.chw Last save: 12/13/2012 9:41:58 AM

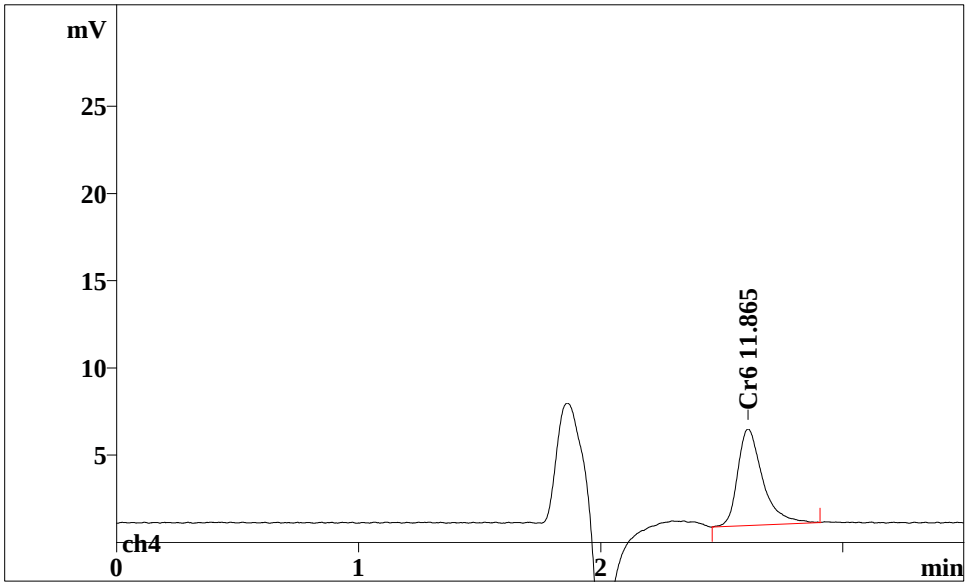
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40128

SAMPLE: 100ul loop
:
Vial number: 73
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.61;	0.104;	5.54;	99.99;	39.811;	100.00;	0.00;	0.00;	29

Report date: 12/13/2012 9:43:42 AM
Printed by: TestAmerica - Edison

Ident: LCSI 460-139400/3-A@500
Analysis from: 12/12/2012 10:30:08 PM
File: wc122230.chw Last save: 12/13/2012 9:41:58 AM

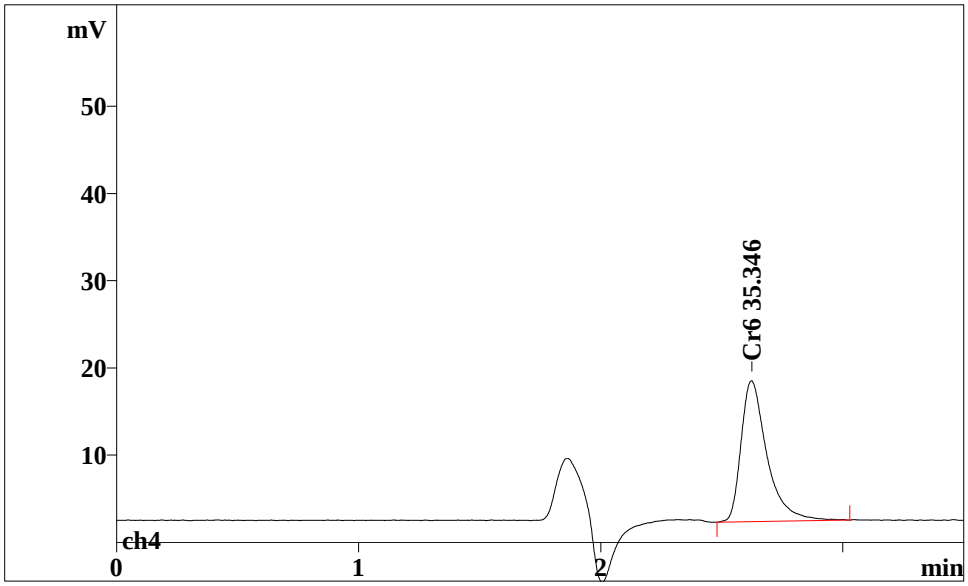
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40129

SAMPLE: 100ul loop
:
Vial number: 74
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.62;	0.107;	16.17;	100.02;	120.539;	100.00;	0.00;	0.00;	27

Report date: 12/13/2012 9:43:46 AM
Printed by: TestAmerica - Edison

Ident: LCSI 460-139400/3-A@500
Analysis from: 12/12/2012 10:38:26 PM
File: wc122238.chw Last save: 12/13/2012 9:41:58 AM

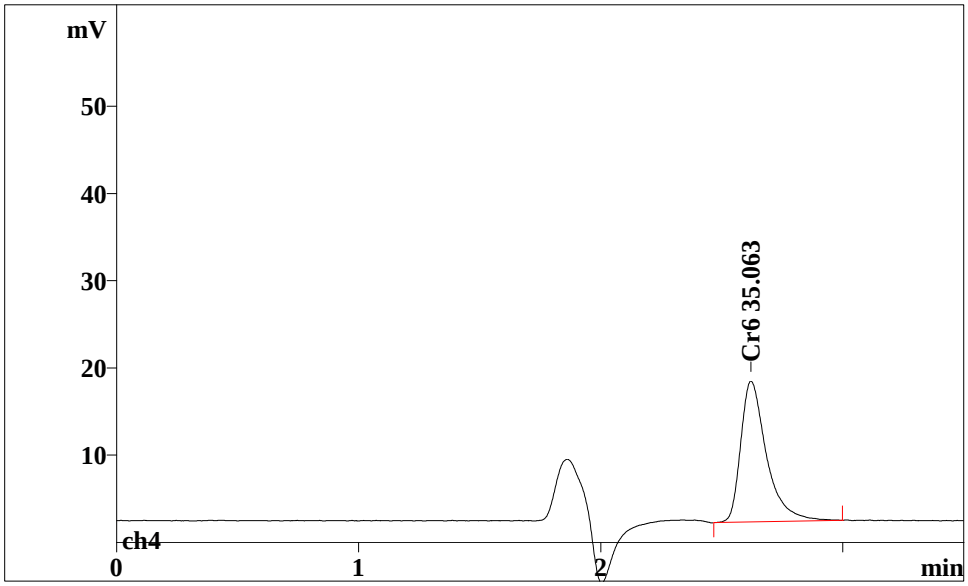
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40130

SAMPLE: 100ul loop
:
Vial number: 75
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.62;	0.107;	16.17;	99.98;	119.566;	100.00;	0.00;	0.00;	28

Report date: 12/13/2012 9:43:49 AM
Printed by: TestAmerica - Edison

Ident: 480-29598-B-4-A@10
Analysis from: 12/12/2012 10:46:41 PM
File: wc122246.chw Last save: 12/13/2012 9:41:58 AM

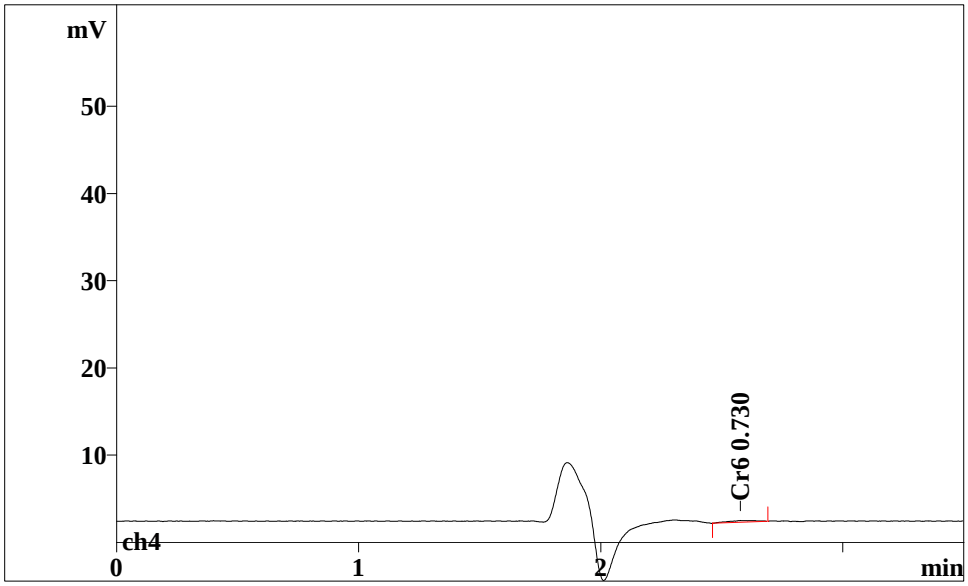
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40131

SAMPLE: 100ul loop
:
Vial number: 76
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.58;	0.143;	0.20;	97.12;	1.527;	100.00;	0.00;	0.00;	27

Report date: 12/13/2012 9:43:52 AM
Printed by: TestAmerica - Edison

Ident: 480-29598-B-4-A@10
Analysis from: 12/12/2012 10:54:58 PM
File: wc122254.chw Last save: 12/13/2012 9:41:58 AM

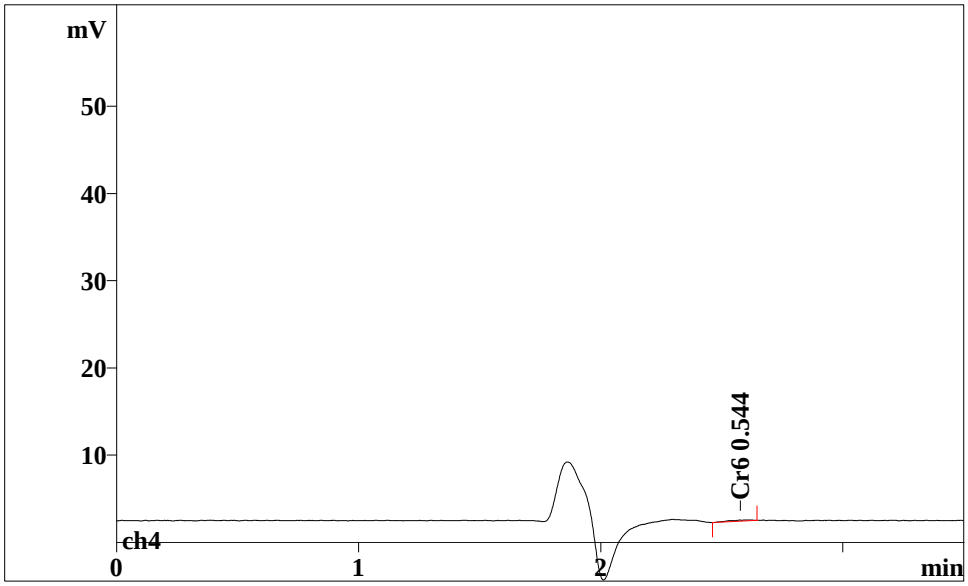
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40132

SAMPLE: 100ul loop
:
Vial number: 77
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.57;	0.116;	0.13;	95.81;	0.886;	100.00;	0.00;	0.00;	37

Report date: 12/13/2012 9:43:55 AM
Printed by: TestAmerica - Edison

Ident: 480-29598-B-4-B DU@10
Analysis from: 12/12/2012 11:03:14 PM
File: wc122303.chw Last save: 12/13/2012 9:41:59 AM

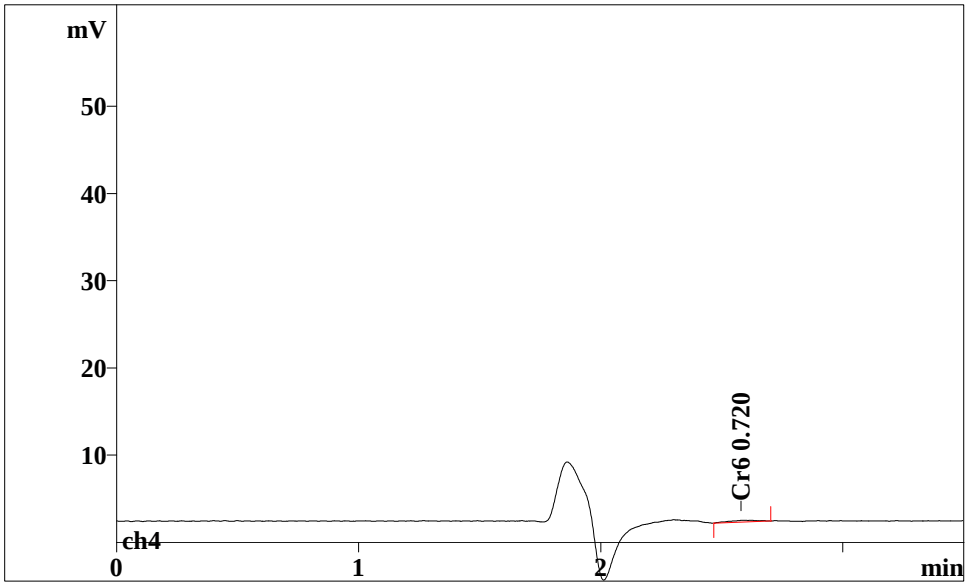
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40133

SAMPLE: 100ul loop
:
Vial number: 78
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.58;	0.139;	0.19;	96.09;	1.491;	100.00;	0.00;	0.00;	25

Report date: 12/13/2012 9:43:58 AM
Printed by: TestAmerica - Edison

Ident: 480-29598-B-4-B DU@10
Analysis from: 12/12/2012 11:11:27 PM
File: wc122311.chw Last save: 12/13/2012 9:41:59 AM

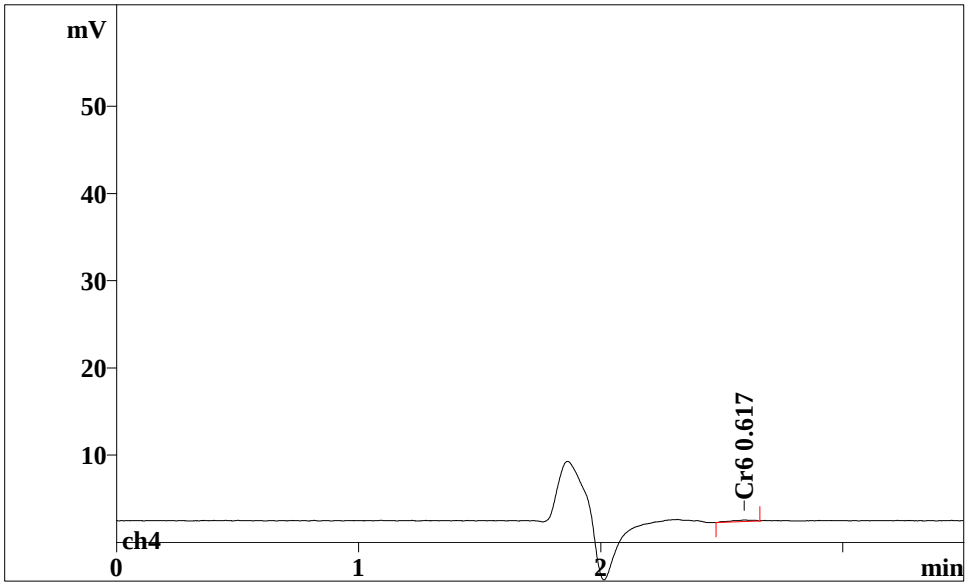
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40134

SAMPLE: 100ul loop
:
Vial number: 79
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.59;	0.120;	0.17;	98.06;	1.139;	100.00;	0.00;	0.00;	35

Report date: 12/13/2012 9:44:02 AM
Printed by: TestAmerica - Edison

Ident: CCV
Analysis from: 12/12/2012 11:19:39 PM
File: wc122319.chw Last save: 12/13/2012 9:41:59 AM

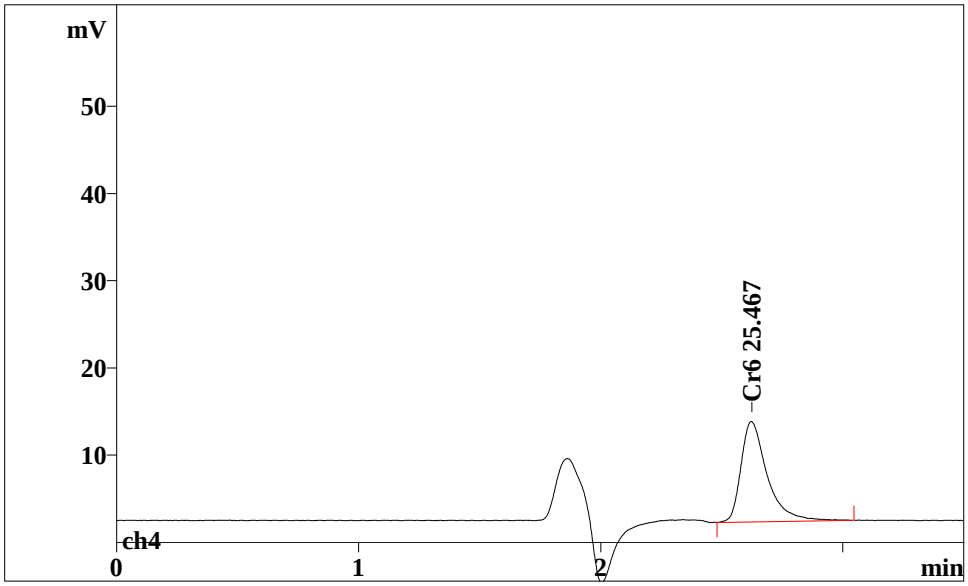
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40135

SAMPLE: 100ul loop
:
Vial number: 80
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.62;	0.107;	11.51;	100.00;	86.575;	100.00;	0.00;	0.00;	27

Report date: 12/13/2012 9:44:04 AM
Printed by: TestAmerica - Edison

Ident: CCB
Analysis from: 12/12/2012 11:27:53 PM
File: wc122327.chw Last save: 12/13/2012 9:41:59 AM

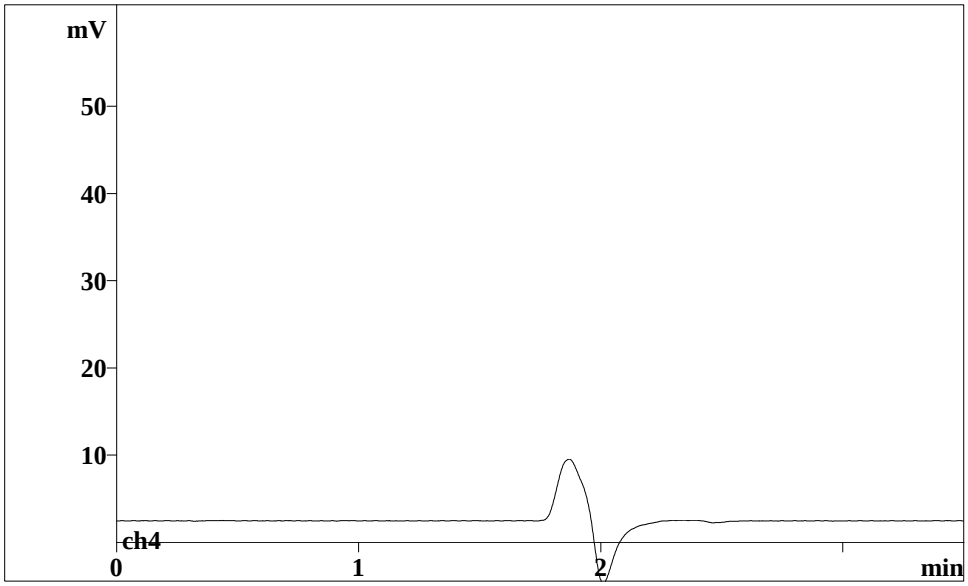
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40136

SAMPLE: 100ul loop
:
Vial number: 81
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No peaks

Report date: 12/13/2012 9:44:12 AM
Printed by: TestAmerica - Edison

Ident: 480-29598-B-4-C MSS@40
Analysis from: 12/12/2012 11:36:05 PM
File: wc122336.chw Last save: 12/13/2012 9:41:59 AM

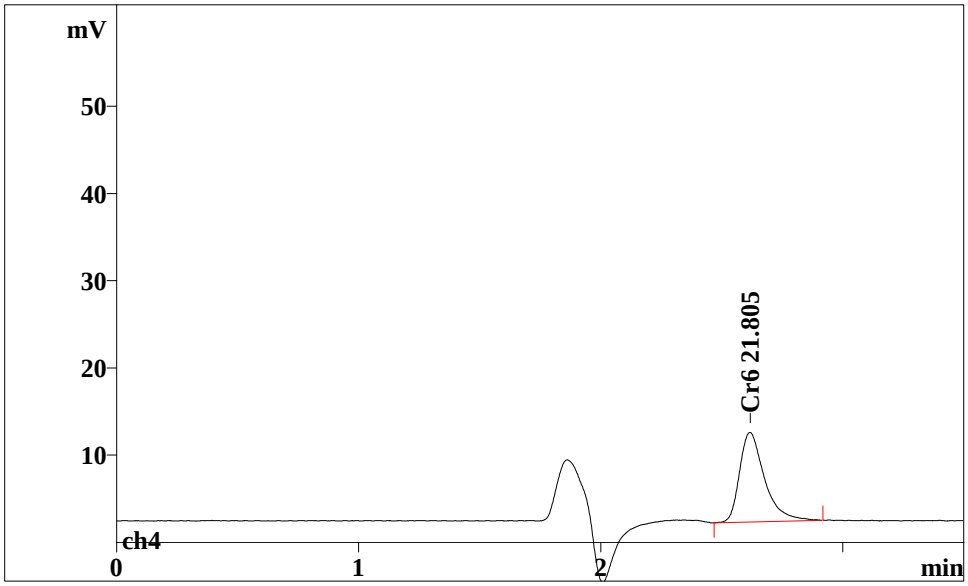
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40137

SAMPLE: 100ul loop
:
Vial number: 82
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.62;	0.105;	10.30;	100.00;	73.986;	100.00;	0.00;	0.00;	30

Report date: 12/13/2012 9:44:15 AM
Printed by: TestAmerica - Edison

Ident: 480-29598-B-4-C MSS@40
Analysis from: 12/12/2012 11:44:18 PM
File: wc122344.chw Last save: 12/13/2012 9:41:59 AM

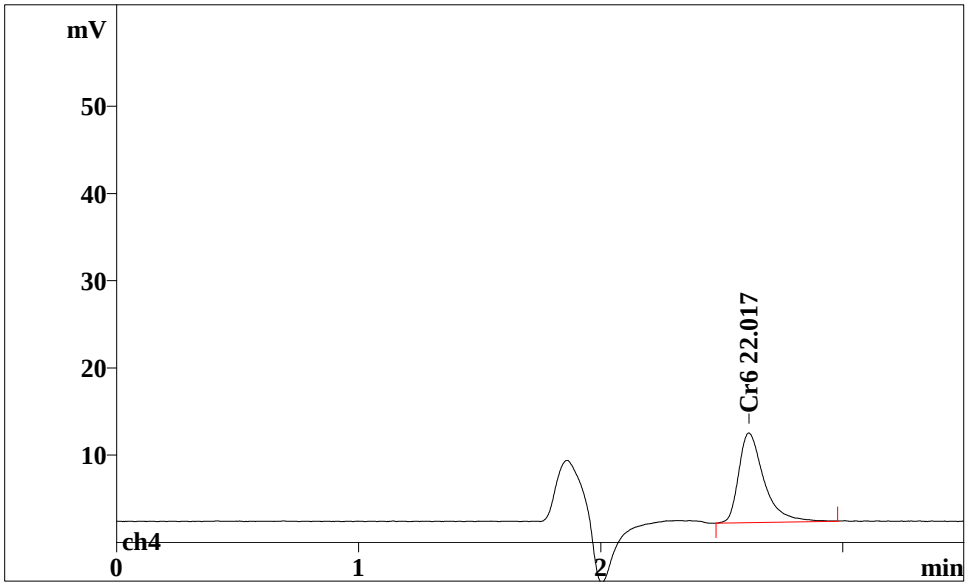
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40138

SAMPLE: 100ul loop
:
Vial number: 83
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.61;	0.105;	10.29;	99.98;	74.714;	100.00;	0.00;	0.00;	29

Report date: 12/13/2012 9:44:18 AM
Printed by: TestAmerica - Edison

Ident: 480-29598-B-4-D MSI@500
Analysis from: 12/12/2012 11:52:32 PM
File: wc122352.chw Last save: 12/13/2012 9:41:59 AM

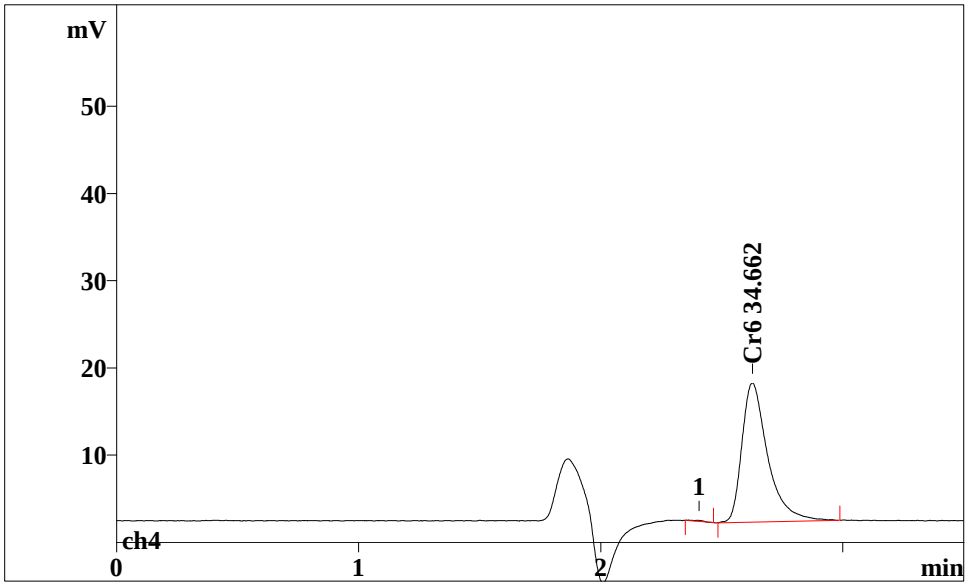
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40139

SAMPLE: 100ul loop
:
Vial number: 84
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.63;	0.107;	15.96;	99.11;	118.188;	99.63;	0.00;	0.00;	28

Report date: 12/13/2012 9:44:22 AM
Printed by: TestAmerica - Edison

Ident: 480-29598-B-4-D MSI@500
Analysis from: 12/13/2012 12:00:42 AM
File: wc130000.chw Last save: 12/13/2012 9:42:00 AM

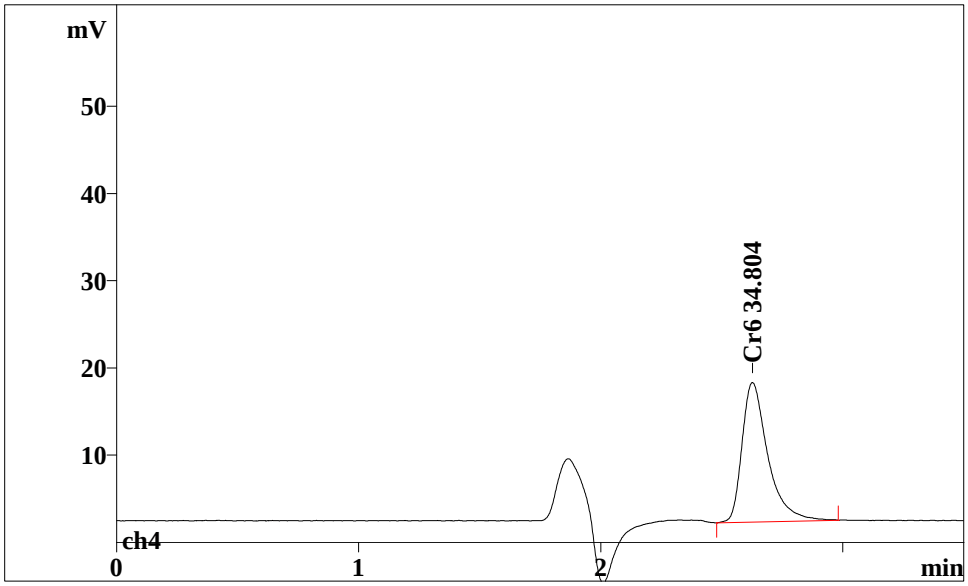
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40140

SAMPLE: 100ul loop
:
Vial number: 85
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 8.9 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.63;	0.107;	16.00;	99.96;	118.676;	100.00;	0.00;	0.00;	28

Report date: 12/13/2012 9:44:25 AM
Printed by: TestAmerica - Edison

Ident: 480-29598-B-4-A PDS@40
Analysis from: 12/13/2012 12:08:55 AM
File: wc130008.chw Last save: 12/13/2012 9:42:00 AM

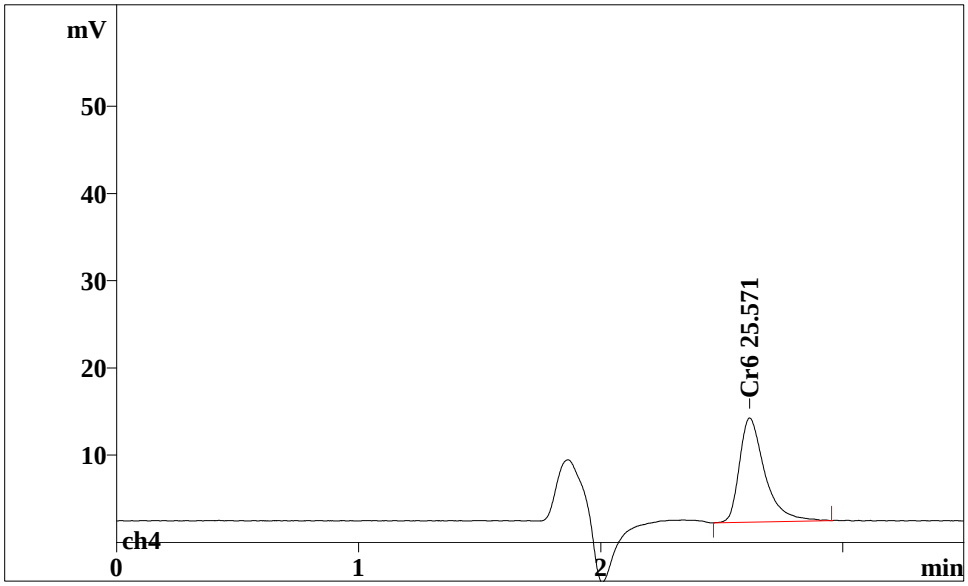
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40141

SAMPLE: 100ul loop
:
Vial number: 86
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 8.9 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.61;	0.105;	11.95;	100.01;	86.932;	100.00;	0.00;	0.00;	29

Report date: 12/13/2012 9:44:28 AM
Printed by: TestAmerica - Edison

Ident: 480-29598-B-4-A PDS@40
Analysis from: 12/13/2012 12:17:09 AM
File: wc130017.chw Last save: 12/13/2012 9:42:00 AM

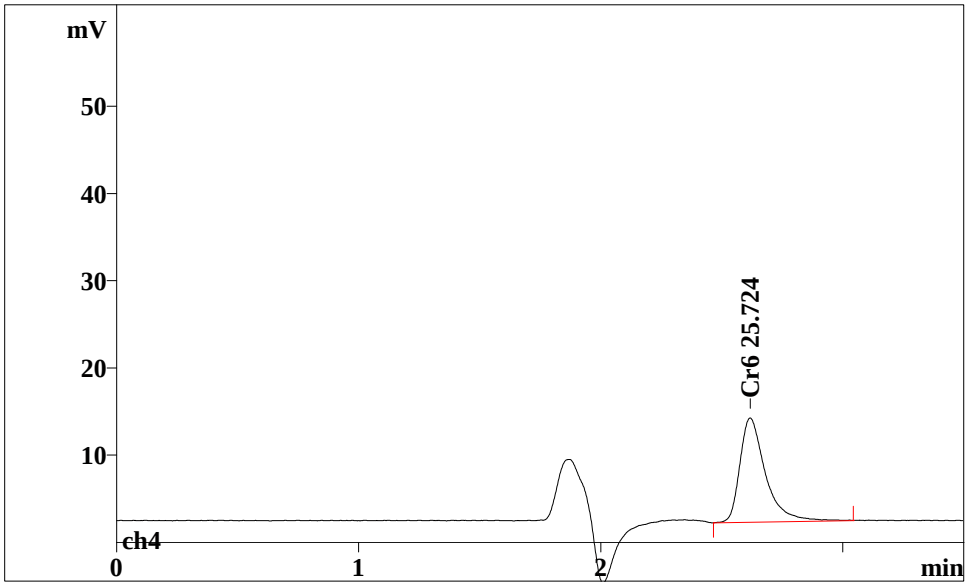
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40142

SAMPLE: 100ul loop
:
Vial number: 87
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.62;	0.105;	11.95;	100.02;	87.460;	100.00;	0.00;	0.00;	28

Report date: 12/13/2012 9:44:31 AM
Printed by: TestAmerica - Edison

Ident: 480-29598-A-1-A@10
Analysis from: 12/13/2012 12:25:22 AM
File: wc130025.chw Last save: 12/13/2012 9:42:00 AM

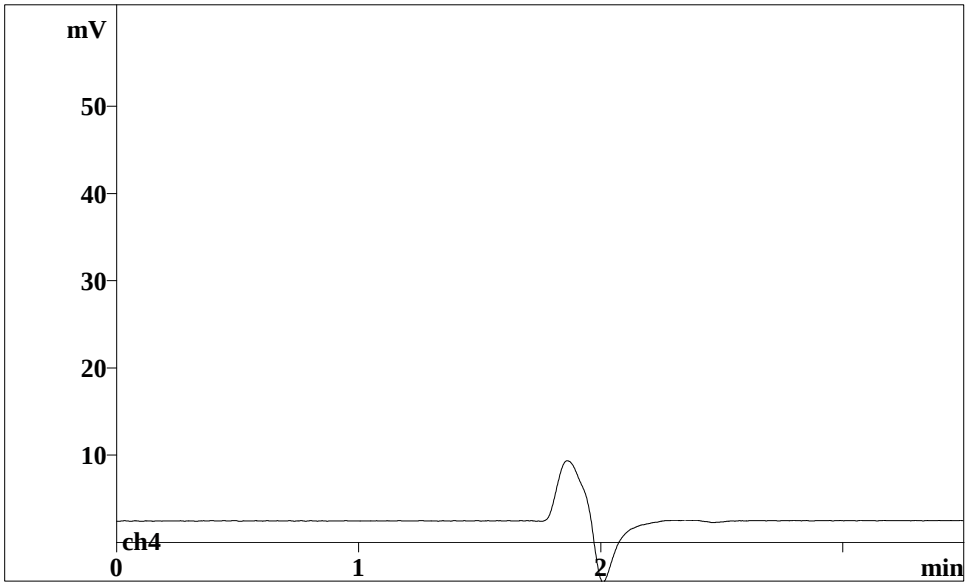
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40143

SAMPLE: 100ul loop
:
Vial number: 88
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No peaks

Report date: 12/13/2012 9:44:34 AM
Printed by: TestAmerica - Edison

Ident: 480-29598-A-1-A@10
Analysis from: 12/13/2012 12:33:36 AM
File: wc130033.chw Last save: 12/13/2012 9:42:00 AM

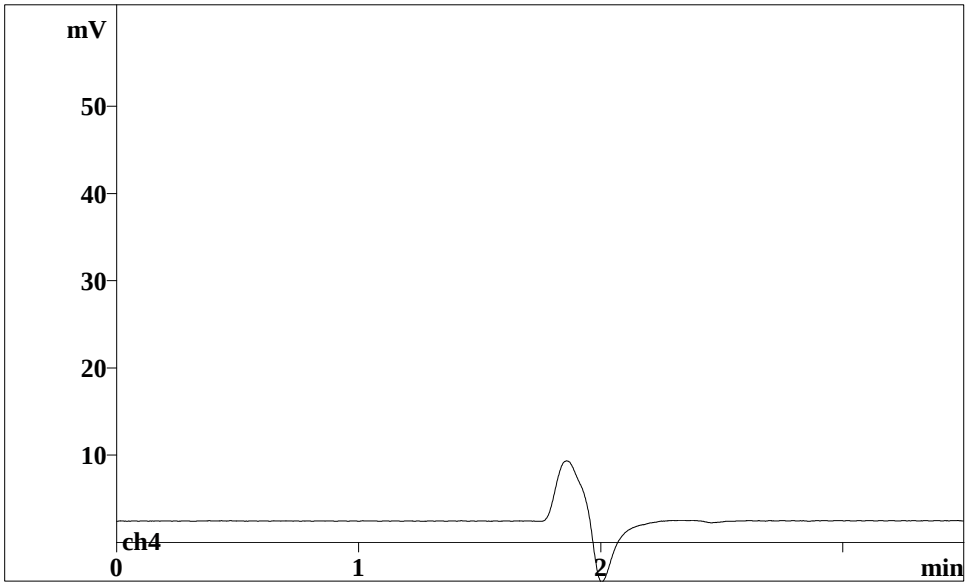
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40144

SAMPLE: 100ul loop
:
Vial number: 89
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No peaks

Report date: 12/13/2012 9:44:45 AM
Printed by: TestAmerica - Edison

Ident: 480-29598-B-2-A@10
Analysis from: 12/13/2012 12:41:52 AM
File: wc130041.chw Last save: 12/13/2012 9:42:00 AM

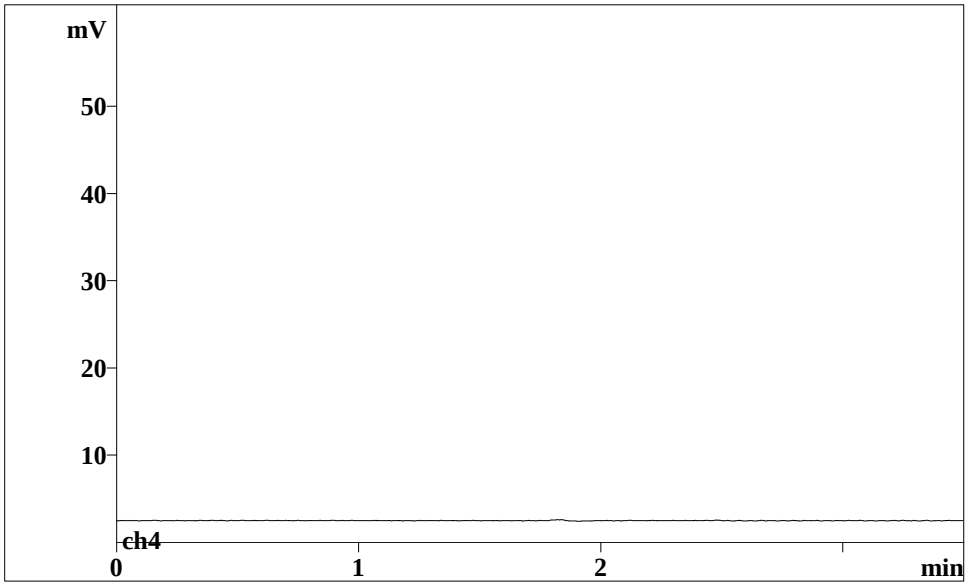
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40145

SAMPLE: 100ul loop
:
Vial number: 90
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.0 MPa



No peaks

Report date: 12/13/2012 9:44:51 AM
Printed by: TestAmerica - Edison

Ident: 480-29598-B-2-A@10
Analysis from: 12/13/2012 12:50:07 AM
File: wc130050.chw Last save: 12/13/2012 9:42:00 AM

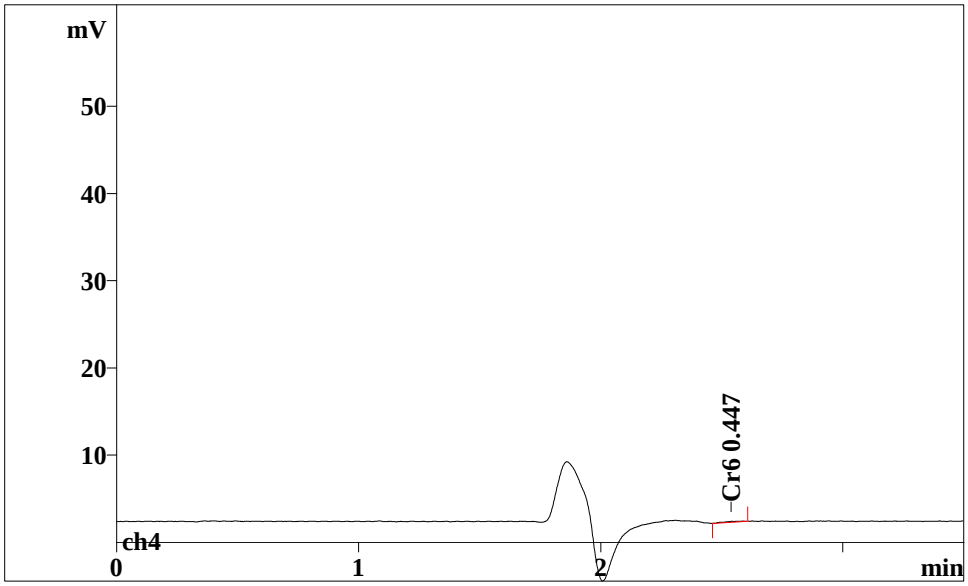
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40146

SAMPLE: 100ul loop
:
Vial number: 91
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.54;	0.106;	0.11;	100.67;	0.553;	100.00;	0.00;	0.00;	53

Report date: 12/13/2012 9:44:55 AM
Printed by: TestAmerica - Edison

Ident: CCV
Analysis from: 12/13/2012 12:58:25 AM
File: wc130058.chw Last save: 12/13/2012 9:42:01 AM

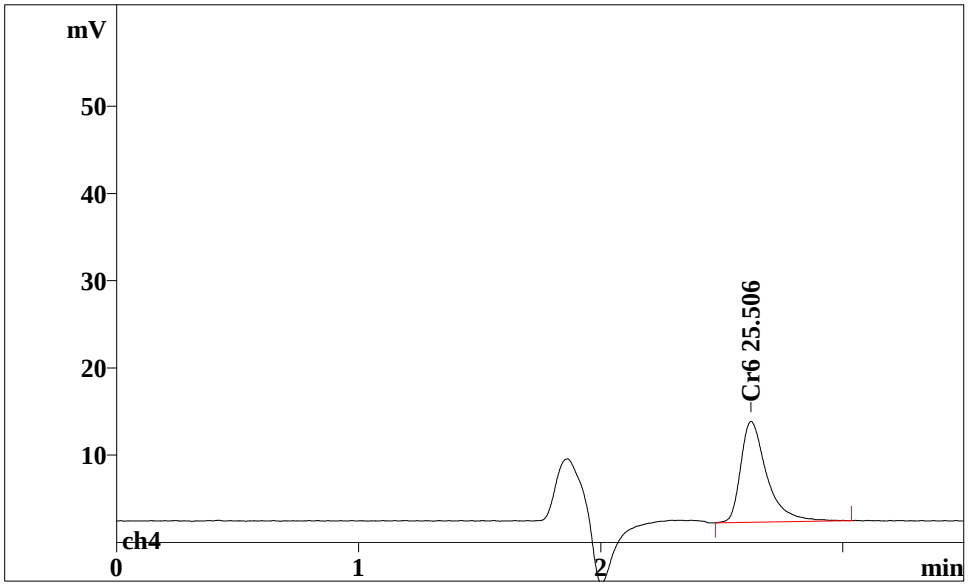
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40147

SAMPLE: 100ul loop
:
Vial number: 92
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.62;	0.107;	11.57;	100.02;	86.710;	100.00;	0.00;	0.00;	27

Report date: 12/13/2012 9:44:58 AM
Printed by: TestAmerica - Edison

Ident: CCB
Analysis from: 12/13/2012 1:06:42 AM
File: wc130106.chw Last save: 12/13/2012 9:42:01 AM

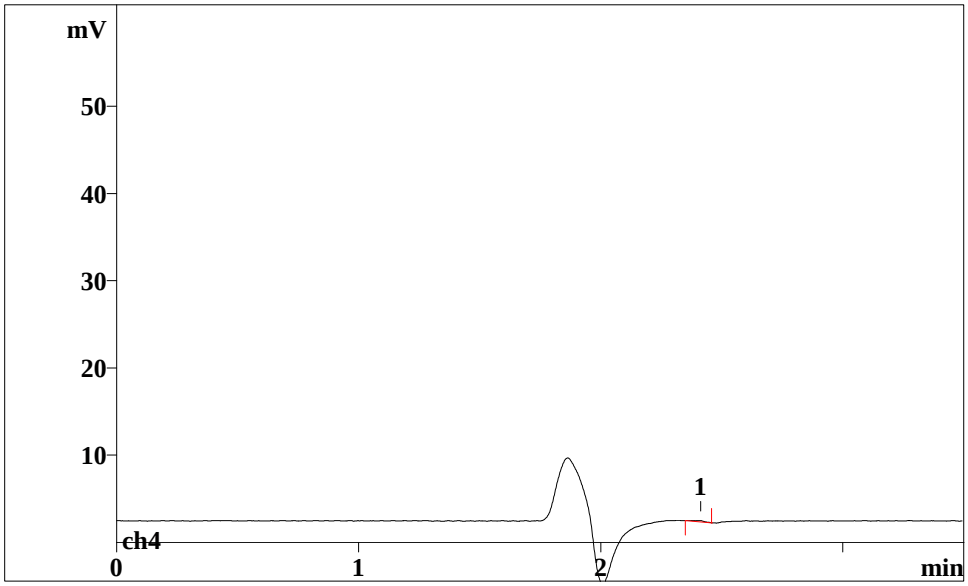
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40148

SAMPLE: 100ul loop
:
Vial number: 93
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;
1;	0.00;	0.000;	0.00;	0.00;	0.000;	0.00;	0.00;	0.00;

Report date: 12/13/2012 9:45:02 AM
Printed by: TestAmerica - Edison

Ident: 480-29598-A-3-A@10
Analysis from: 12/13/2012 1:15:02 AM
File: wc130115.chw Last save: 12/13/2012 9:42:01 AM

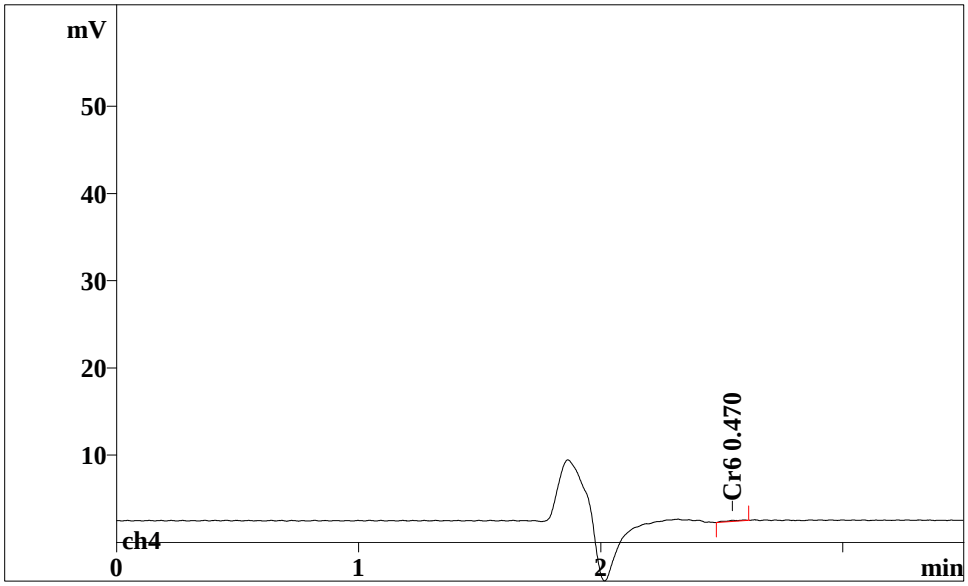
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40149

SAMPLE: 100ul loop
:
Vial number: 94
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.54;	0.091;	0.14;	100.66;	0.631;	100.00;	0.00;	0.00;	69

Report date: 12/13/2012 9:45:05 AM
Printed by: TestAmerica - Edison

Ident: 480-29598-A-3-A@10
Analysis from: 12/13/2012 1:23:21 AM
File: wc130123.chw Last save: 12/13/2012 9:42:01 AM

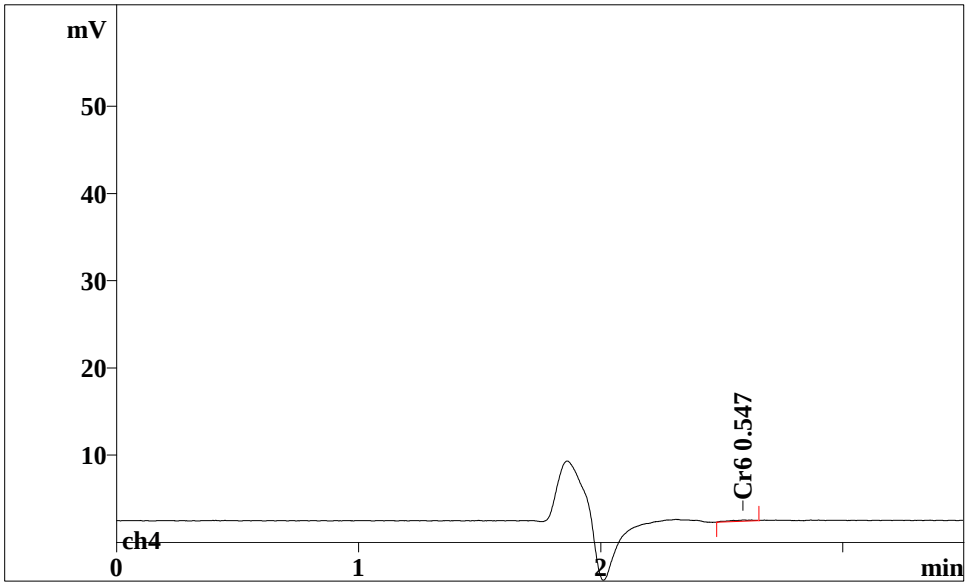
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40150

SAMPLE: 100ul loop
:
Vial number: 95
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.59;	0.137;	0.13;	94.25;	0.896;	100.00;	0.00;	0.00;	35

Report date: 12/13/2012 9:45:08 AM
Printed by: TestAmerica - Edison

Ident: 480-29598-A-5-A@10
Analysis from: 12/13/2012 1:31:40 AM
File: wc130131.chw Last save: 12/13/2012 9:42:01 AM

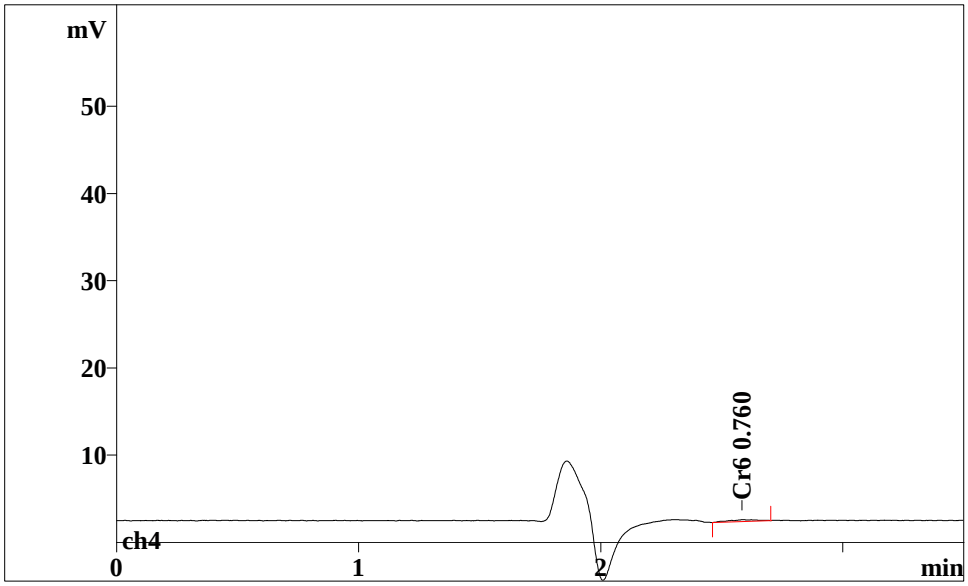
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40151

SAMPLE: 100ul loop
:
Vial number: 96
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.59;	0.138;	0.20;	98.85;	1.628;	100.00;	0.00;	0.00;	24

Report date: 12/13/2012 9:45:11 AM
Printed by: TestAmerica - Edison

Ident: 480-29598-A-5-A@10
Analysis from: 12/13/2012 1:40:00 AM
File: wc130140.chw Last save: 12/13/2012 9:42:01 AM

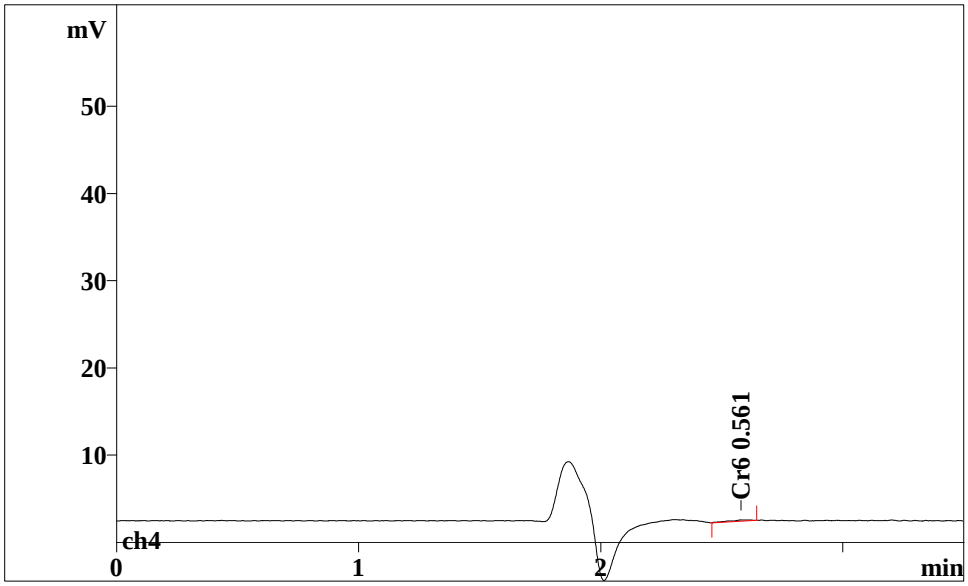
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40152

SAMPLE: 100ul loop
:
Vial number: 97
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.58;	0.110;	0.16;	95.85;	0.945;	100.00;	0.00;	0.00;	46

Report date: 12/13/2012 9:45:14 AM
Printed by: TestAmerica - Edison

Ident: 480-29598-B-6-A@10
Analysis from: 12/13/2012 1:48:20 AM
File: wc130148.chw Last save: 12/13/2012 9:42:02 AM

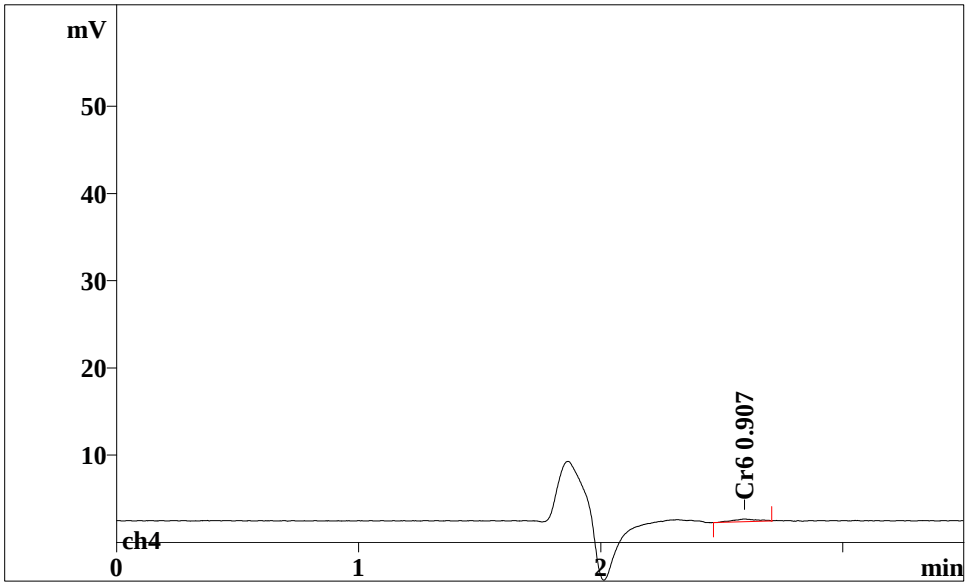
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40153

SAMPLE: 100ul loop
:
Vial number: 98
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.59;	0.110;	0.31;	99.04;	2.134;	100.00;	0.00;	0.00;	32

Report date: 12/13/2012 9:45:17 AM
Printed by: TestAmerica - Edison

Ident: 480-29598-B-6-A@10
Analysis from: 12/13/2012 1:56:43 AM
File: wc130156.chw Last save: 12/13/2012 9:42:02 AM

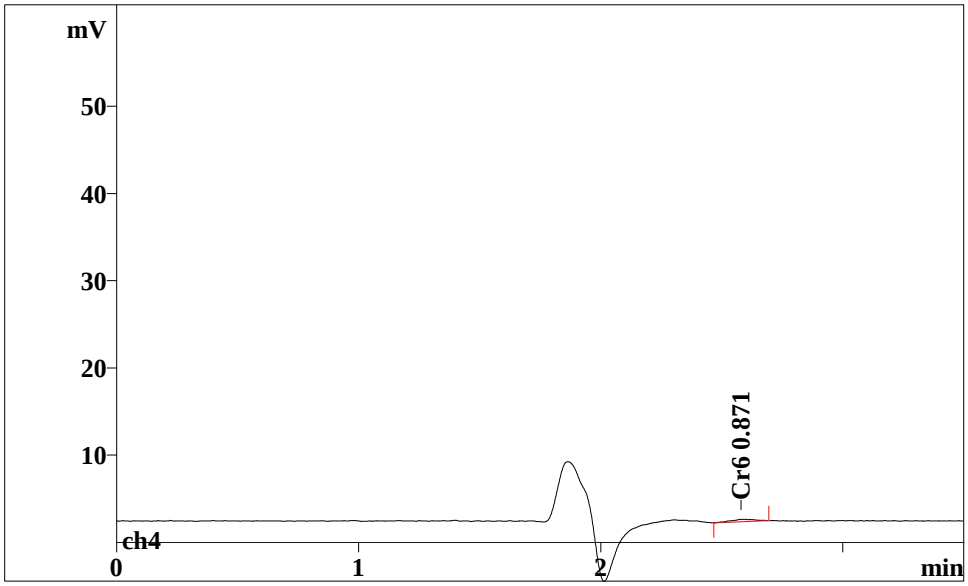
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40154

SAMPLE: 100ul loop
:
Vial number: 99
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.58;	0.117;	0.29;	98.11;	2.009;	100.00;	0.00;	0.00;	31

Report date: 12/13/2012 9:45:20 AM
Printed by: TestAmerica - Edison

Ident: 480-29598-A-7-A@10
Analysis from: 12/13/2012 2:05:04 AM
File: wc130205.chw Last save: 12/13/2012 9:42:02 AM

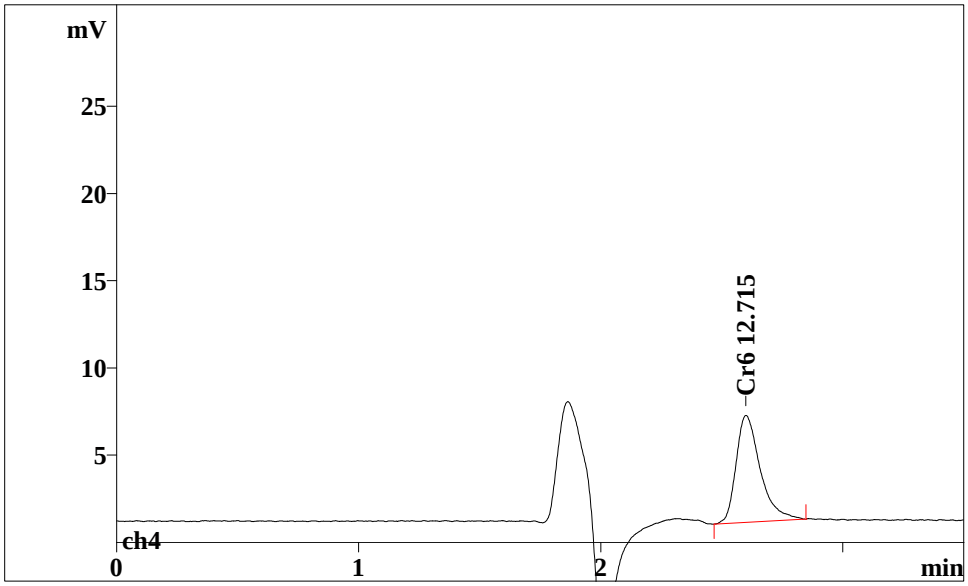
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40155

SAMPLE: 100ul loop
:
Vial number: 100
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.60;	0.102;	6.15;	99.99;	42.731;	100.00;	0.00;	0.00;	31

Report date: 12/13/2012 9:45:23 AM
Printed by: TestAmerica - Edison

Ident: 480-29598-A-7-A@10
Analysis from: 12/13/2012 2:13:27 AM
File: wc130213.chw Last save: 12/13/2012 9:42:02 AM

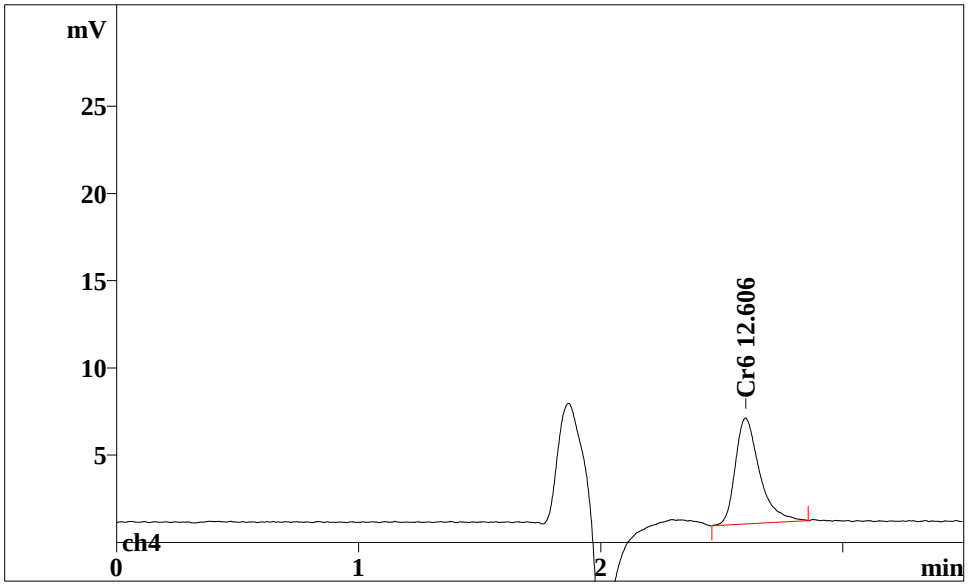
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40156

SAMPLE: 100ul loop
:
Vial number: 101
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.60;	0.102;	6.07;	99.96;	42.359;	100.00;	0.00;	0.00;	31

Report date: 12/13/2012 9:45:28 AM
Printed by: TestAmerica - Edison

Ident: 480-29598-A-8-C@10
Analysis from: 12/13/2012 2:21:48 AM
File: wc130221.chw Last save: 12/13/2012 9:42:02 AM

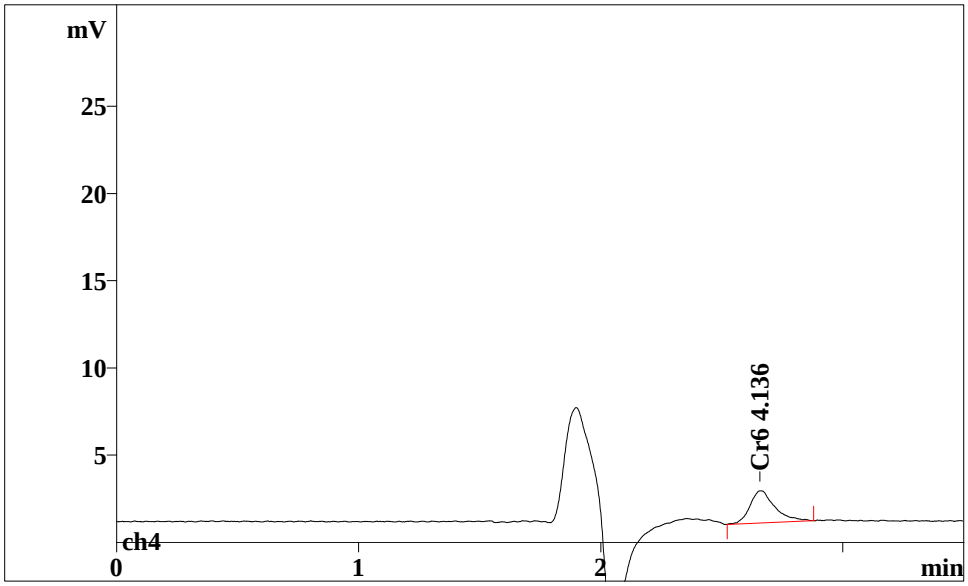
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40157

SAMPLE: 100ul loop
:
Vial number: 102
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.66;	0.104;	1.84;	99.84;	13.236;	100.00;	0.00;	0.00;	31

Report date: 12/13/2012 9:45:31 AM
Printed by: TestAmerica - Edison

Ident: 480-29598-A-8-C@10
Analysis from: 12/13/2012 2:30:10 AM
File: wc130230.chw Last save: 12/13/2012 9:42:03 AM

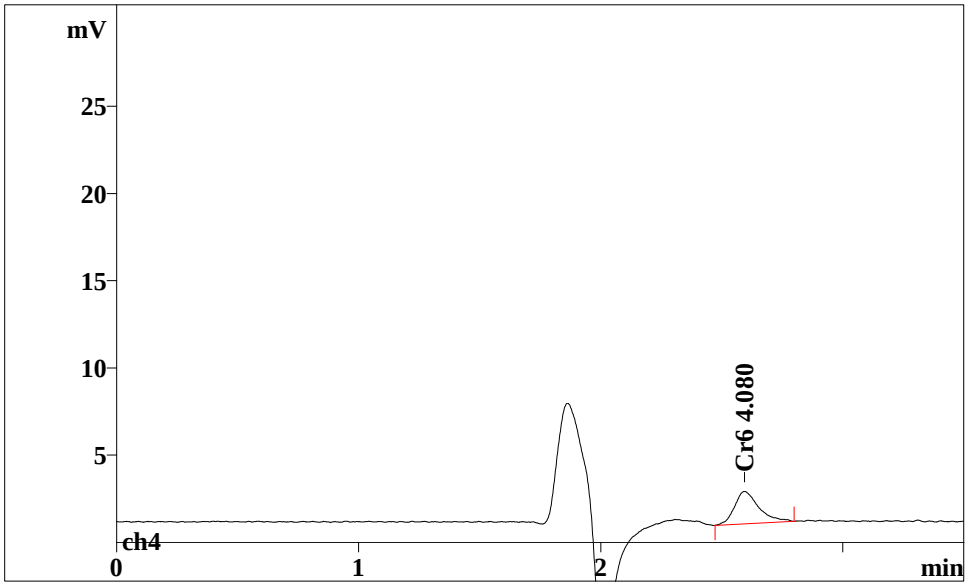
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40158

SAMPLE: 100ul loop
:
Vial number: 103
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.0 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.59;	0.101;	1.86;	99.82;	13.045;	100.00;	0.00;	0.00;	30

Report date: 12/13/2012 9:45:35 AM
Printed by: TestAmerica - Edison

Ident: CCV
Analysis from: 12/13/2012 2:38:32 AM
File: wc130238.chw Last save: 12/13/2012 9:42:03 AM

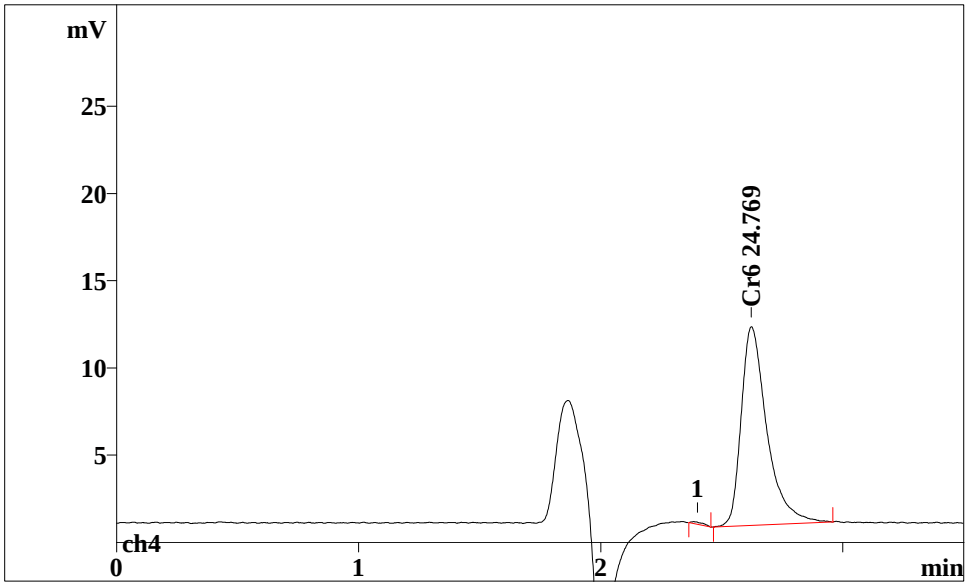
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40159

SAMPLE: 100ul loop
:
Vial number: 104
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.62;	0.107;	11.39;	98.87;	84.175;	99.45;	0.00;	0.00;	28

Report date: 12/13/2012 9:45:38 AM
Printed by: TestAmerica - Edison

Ident: CCB
Analysis from: 12/13/2012 2:46:55 AM
File: wc130246.chw Last save: 12/13/2012 9:42:03 AM

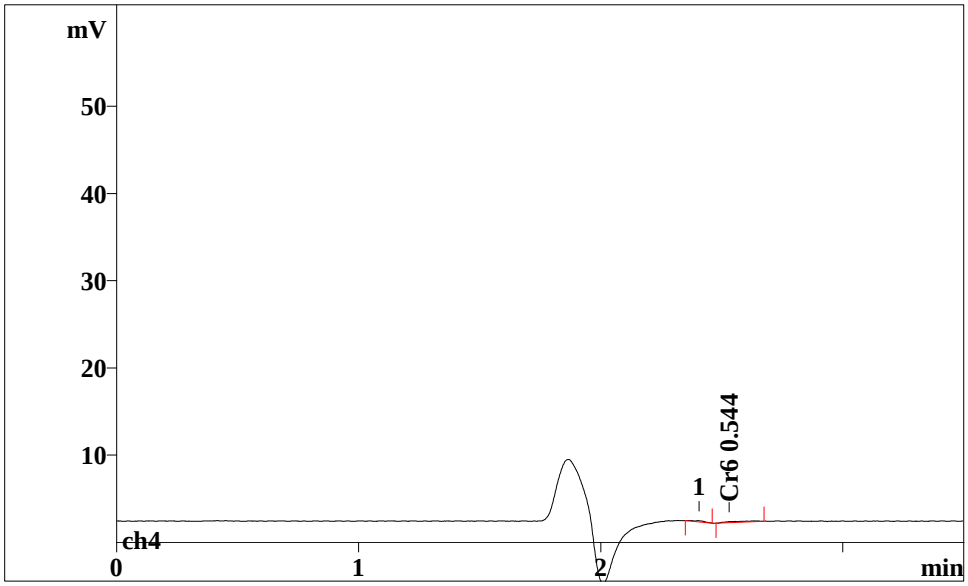
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40160

SAMPLE: 100ul loop
:
Vial number: 105
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.54;	0.140;	0.12;	44.96;	0.887;	65.29;	0.00;	0.00;	30

Report date: 12/13/2012 9:45:42 AM
Printed by: TestAmerica - Edison

Ident: CCV
Analysis from: 12/13/2012 8:27:17 AM
File: wc130827.chw Last save: 12/13/2012 9:42:03 AM

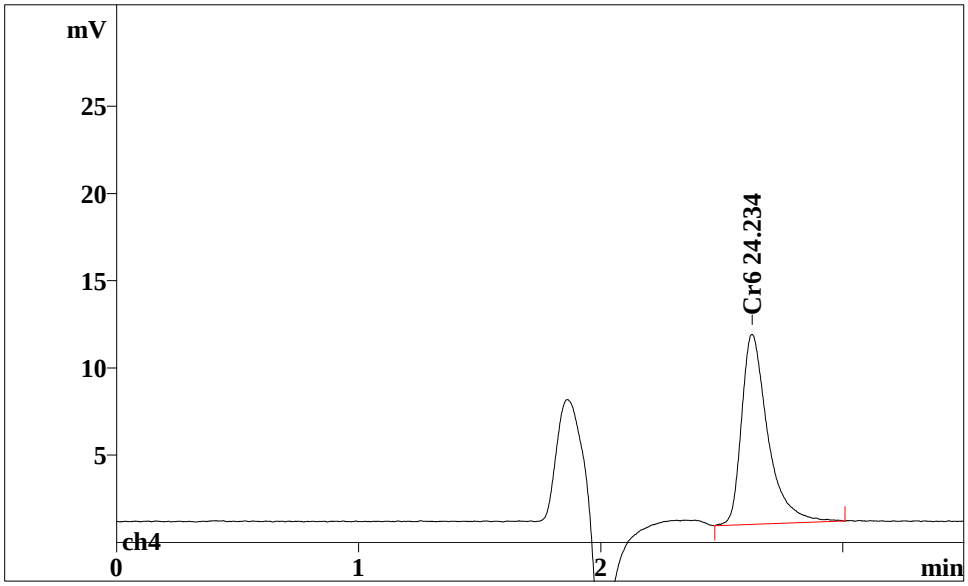
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40168

SAMPLE: 100ul loop
:
Vial number: 1
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.0 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.62;	0.108;	10.90;	99.98;	82.335;	100.00;	0.00;	0.00;	27

Report date: 12/13/2012 9:45:45 AM
Printed by: TestAmerica - Edison

Ident: CCB
Analysis from: 12/13/2012 8:35:29 AM
File: wc130835.chw Last save: 12/13/2012 9:42:03 AM

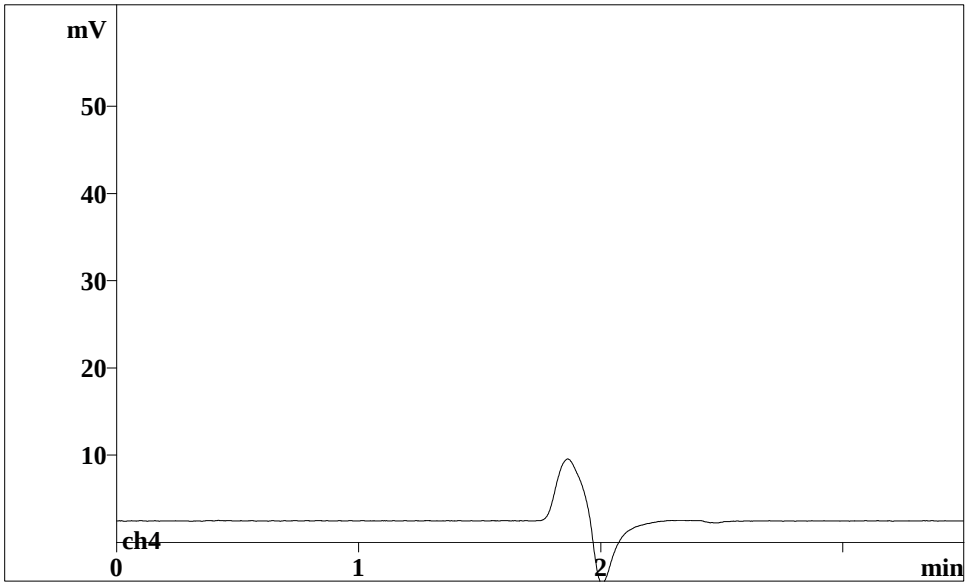
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40169

SAMPLE: 100ul loop
:
Vial number: 2
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No peaks

Report date: 12/13/2012 9:45:47 AM
Printed by: TestAmerica - Edison

Ident: 480-29598-A-9-A@10
Analysis from: 12/13/2012 8:43:42 AM
File: wc130843.chw Last save: 12/13/2012 9:42:04 AM

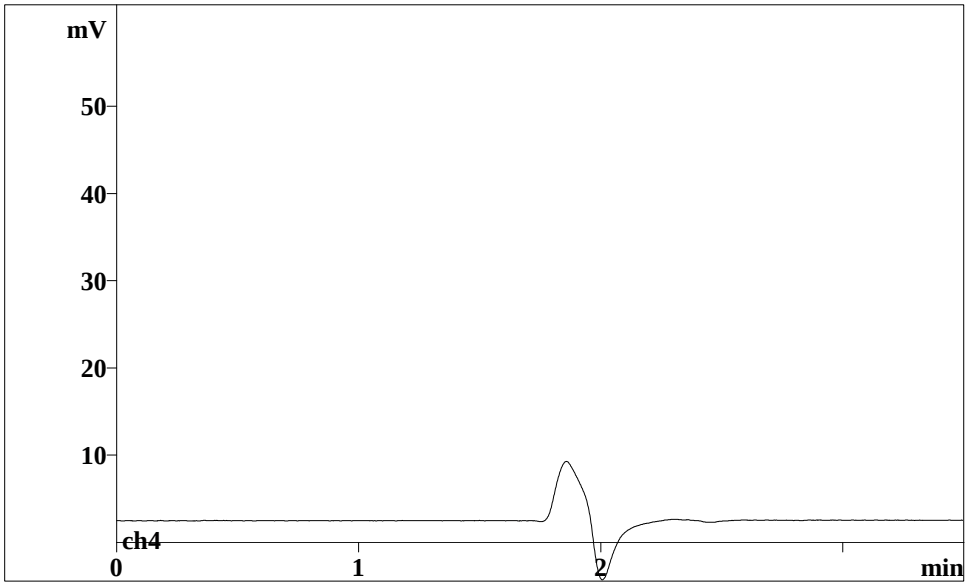
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40170

SAMPLE: 100ul loop
:
Vial number: 3
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No peaks

Report date: 12/13/2012 9:45:50 AM
Printed by: TestAmerica - Edison

Ident: 480-29598-A-9-A@10
Analysis from: 12/13/2012 8:51:56 AM
File: wc130851.chw Last save: 12/13/2012 9:42:04 AM

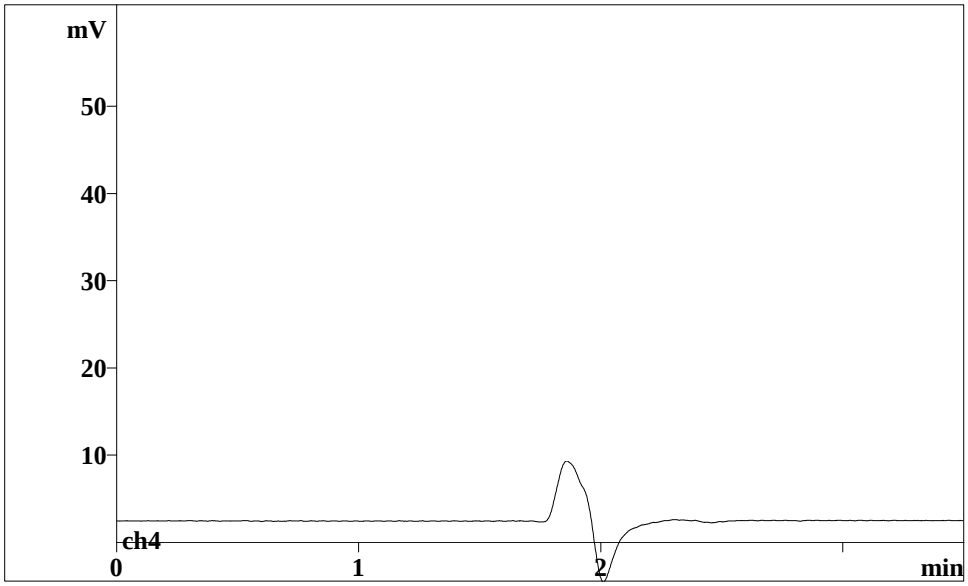
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40171

SAMPLE: 100ul loop
:
Vial number: 4
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No peaks

Report date: 12/13/2012 9:45:53 AM
Printed by: TestAmerica - Edison

Ident: 480-29598-A-10-A@10
Analysis from: 12/13/2012 9:00:11 AM
File: wc130900.chw Last save: 12/13/2012 9:42:04 AM

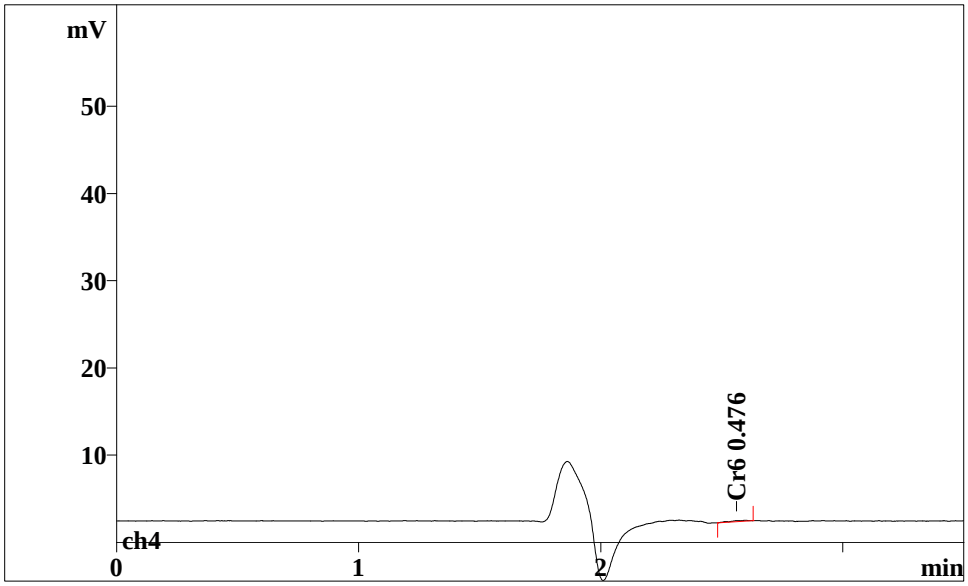
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40172

SAMPLE: 100ul loop
:
Vial number: 5
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.56;	0.093;	0.13;	97.63;	0.654;	100.00;	0.00;	0.00;	58

Report date: 12/13/2012 9:45:56 AM
Printed by: TestAmerica - Edison

Ident: 480-29598-A-10-A@10
Analysis from: 12/13/2012 9:08:24 AM
File: wc130908.chw Last save: 12/13/2012 9:42:04 AM

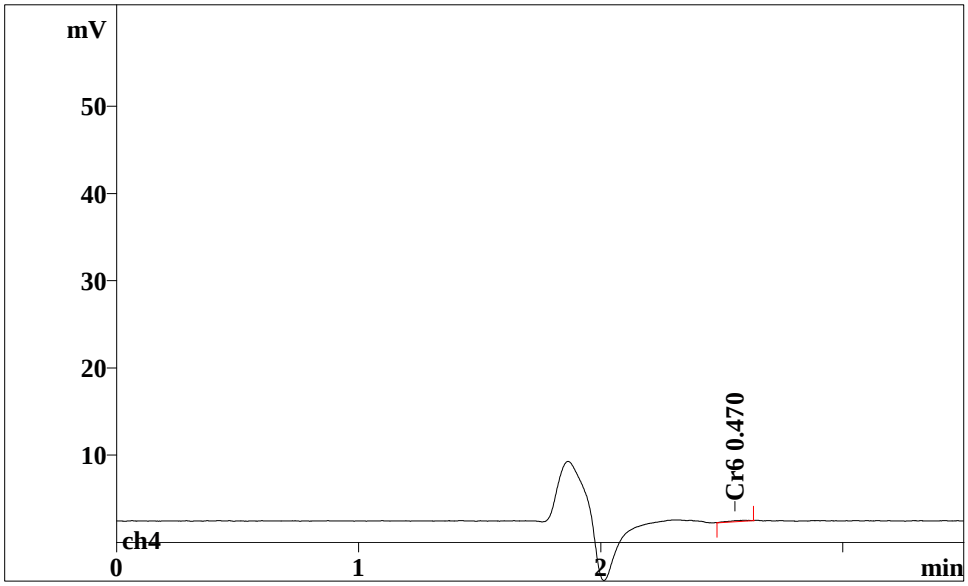
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40173

SAMPLE: 100ul loop
:
Vial number: 6
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.55;	0.111;	0.11;	92.71;	0.633;	100.00;	0.00;	0.00;	48

Report date: 12/13/2012 9:46:00 AM
Printed by: TestAmerica - Edison

Ident: CCV
Analysis from: 12/13/2012 9:16:40 AM
File: wc130916.chw Last save: 12/13/2012 9:42:04 AM

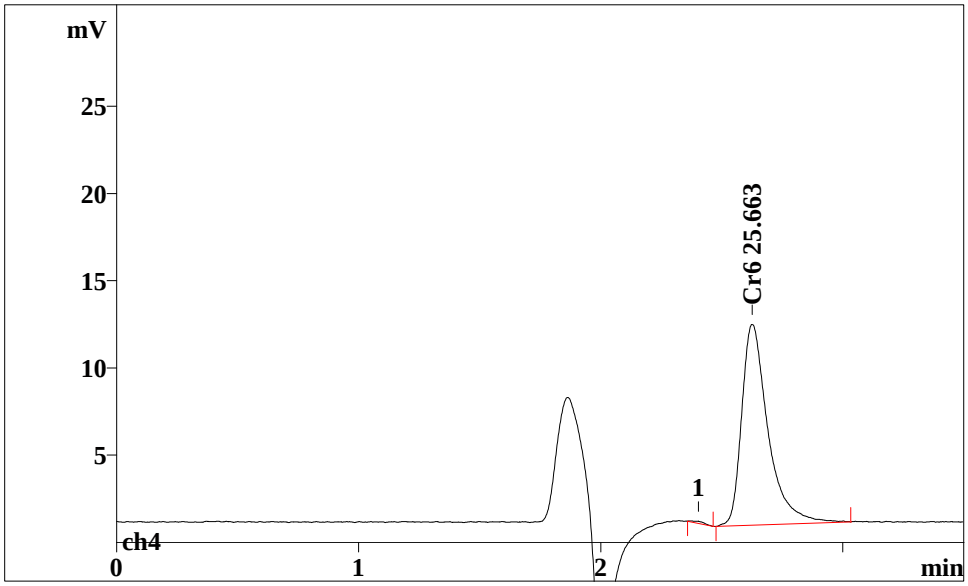
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40174

SAMPLE: 100ul loop
:
Vial number: 7
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.63;	0.108;	11.54;	98.87;	87.250;	99.53;	0.00;	0.00;	27

Report date: 12/13/2012 9:46:02 AM
Printed by: TestAmerica - Edison

Ident: CCB
Analysis from: 12/13/2012 9:24:58 AM
File: wc130924.chw Last save: 12/13/2012 9:42:04 AM

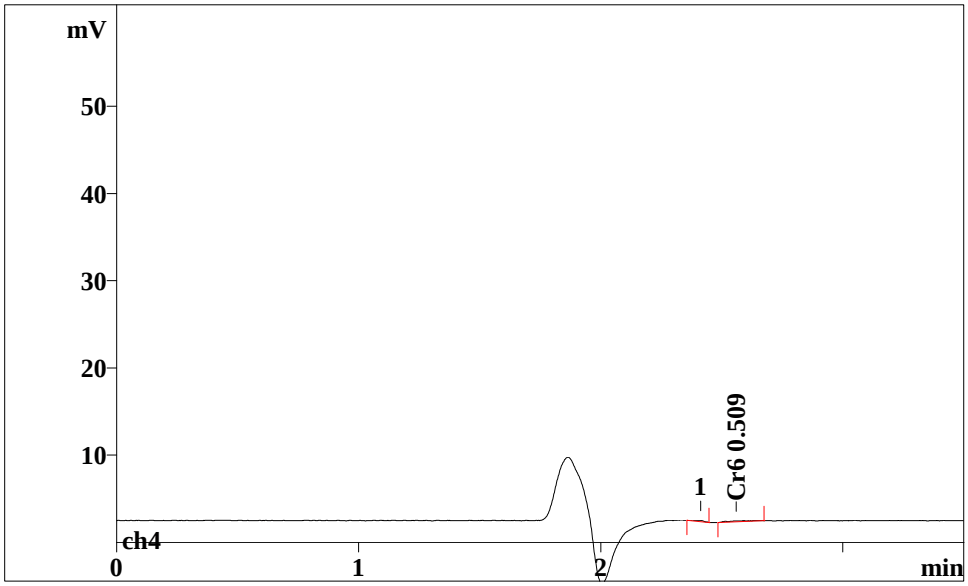
Method: stl_hexchrome_soil.mtw Last save: 12/12/2012 12:02:
Run operator: TestAmerica - Edison
Analysis number: 40175

SAMPLE: 100ul loop
:
Vial number: 8
Volume: 1.0 µL
Dilution: 1.00
Amount: 1.0000

COLUMN: A Supp 5-150
Size: 4.6 x 150 mm
Number:
Part.size: 7.0 µm

ELUENT: 66 g (NH4)SO4 / 13ml NH4OH-2L DI

Flow: 0.75 mL/min
Temperature: 25.0°C
Pressure: 9.1 MPa



No;	Retention; min;	Width/2; min;	Height; mV;	Height; %;	Area; mV*sec;	Area; %;	K'; ;	Resolution; n,n+1;	
1;	2.56;	0.117;	0.12;	44.69;	0.768;	62.87;	0.00;	0.00;	37

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Dilution Log
Wet Chemistry

Method No.: 7199

Analyst: Sarah Brown

Prep Batch: 139400

Analysis Date: 12/12/12

Analytical Batch: 139572

Job/Sample Number	Dilution Factor	Sample Volume (ml)	Final Volume (ml)	Diluent
480-29598-4	10	5	50	dil. H_2O
480-29598-4 DU	10	5	50	dil. H_2O
480-29598-4 MSS	40	1.25	50	dil. H_2O
480-29598-4 MSI	500	(5→50) 1	50	dil. H_2O
480-29598-4 PDS	40	1.25	50	dil. H_2O
480-29598-1	10	5	50	dil. H_2O
480-29598-2	10	5	50	dil. H_2O
480-29598-3	10	5	50	dil. H_2O
480-29598-5	10	5	50	dil. H_2O
480-29598-6	10	5	50	dil. H_2O
480-29598-7	10	5	50	dil. H_2O
480-29598-8	10	5	50	dil. H_2O
480-29598-9	10	5	50	dil. H_2O
480-29598-10	10	5	50	dil. H_2O

EDS-WI-101, Rev 0
05/24/11

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Coversheet—Inorganics Dept

Method Name: pH Method Reference: 9045C Date of Analytical Run: 12-6-12

Primary Reviewer's Initials & Date: RE 12-11-12 Secondary Reviewer's Initials & Date: CPR 12/13/12

Batch Numbers	97368				

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.)			✓	
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: GZB

Date: 12-6-12

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
Turbidity	EPA 180.1 Nephelmetric
ORP	SM2580B

		pH Analysis		ORP	Color			Odor	Turbidity		
SAMPLE ID #	Time of Analysis	pH (SU)	Temp °C	ORP (mV)	Dilution Factor (DF)	Observed Dil'd Color (C)	Color (units) [=DF x C]	TON	Dilution Factor (DF)	Observed Dil'd Turb. (T)	Turbidity (NTU) [=DF x T]
W12H_PH6 LCS 6.0	0838	5.97	18.9°								
W12F_ORP_LCS ORP LCS	0901			421							
480-29598-C-1	0909	3.36	19.3°	113							
-C-2	0915	4.07	19.4°	99							
-C-2-Dup	0919	4.01	19.2°	96							
-C-3	0924	4.04	19.1°	75							
-C-4	0928	4.33	19.1°	82							
-C-5	0932	3.73	19.2°	79							
-C-6	0938	3.85	19.2°	73							
-7-C	0942	6.02	19.4°	000							
-C-8	0946	6.15	19.6°	-000							
-C-9	0951	3.88	19.7°	49							
CCV 7.00	0957	6.97	19.6°								
480-29598-C-10	1001	4.24	19.6°	34							

pH Meter Calibration: Date & Time Calibrated: 12-6-12 0834 Analyst Initials: GZB Meter Slope = 99.5

Buffer Lot Numbers (Fisher Sci.): pH 4.00 = 120144 pH 7.00 = 114197 pH 10.01 = 114767

TestAmerica WESTFIELD

SANITARY CHEMICAL ANALYSIS

Analyst: G.RB

Date: 12-6-12

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
Turbidity	EPA 180.1 Nephelmetric
ORP	SM2580B

		pH Analysis		ORP	Color			Odor	Turbidity		
SAMPLE ID #	Time of Analysis	pH (SU)	Temp °C	ORP (mV)	Dilution Factor (DF)	Observed Dil'd Color (C)	Color (units) [=DF x C]	TON	Dilution Factor (DF)	Observed Dil'd Turb. (T)	Turbidity (NTU) [=DF x T]
Watertown LBG Ø1Ø1	1241	7.36	7.9°								
LBG Ø2Ø1	1245	6.58	8.9°								
Norwood LBG Ø1Ø1	1249	6.59	8.9°								
Sidup	1254	6.63	10.1°								
CCV 7.00	1700	7.02	19.9°								

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)

pH

Batch Number: 360-97366 | Analyst: Benoit, Gary R | Batch Open: 12/6/2012 8:00:00AM

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~360-97366/1 N/A	N/A		20 g	20 mL	N/A	N/A	N/A		LCS 360-97366/1-A
2	480-29598-C-1 (9045C)	N/A	Solid	20 g	20 mL	12/18/12	9_Days - R	4		480-29598-C-1-A
3	480-29598-C-2 (9045C)	N/A	Solid	20 g	20 mL	12/18/12	9_Days - R	4		480-29598-C-2-A
	480-29598-C-2~DU (9045C)	N/A	Solid	20 g	20 mL	12/18/12	9_Days - R	4		480-29598-C-2-B DU
	480-29598-C-3 (9045C)	N/A	Solid	20 g	20 mL	12/18/12	9_Days - R	4		480-29598-C-3-A
	480-29598-C-4 (9045C)	N/A	Solid	20 g	20 mL	12/18/12	9_Days - R	4		480-29598-C-4-A
	480-29598-C-5 (9045C)	N/A	Solid	20 g	20 mL	12/18/12	9_Days - R	4		480-29598-C-5-A
8	480-29598-C-6 (9045C)	N/A	Solid	20 g	20 mL	12/18/12	9_Days - R	4		480-29598-C-6-A
9	480-29598-C-7 (9045C)	N/A	Solid	20 g	20 mL	12/18/12	9_Days - R	4		480-29598-C-7-A
10	480-29598-C-8 (9045C)	N/A	Solid	20 g	20 mL	12/18/12	9_Days - R	4		480-29598-C-8-A
11	480-29598-C-9 (9045C)	N/A	Solid	20 g	20 mL	12/18/12	9_Days - R	4		480-29598-C-9-A
12	480-29598-C-10 (9045C)	N/A	Solid	20 g	20 mL	12/18/12	9_Days - R	4		480-29598-C-10-A
13	N/A	N/A				N/A	N/A	N/A		
14	N/A	N/A				N/A	N/A	N/A		

Page 1140 of 1172
03/11/2013

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 360-97366 Analyst: Benoit, Gary R Batch Open: 12/6/2012 8:00:00AM

Method Code: 360-DI_LEACH-360 Batch End:

15	N/A	N/A				N/A	N/A	N/A	
16	N/A	N/A				N/A	N/A	N/A	
17	N/A	N/A				N/A	N/A	N/A	
18	N/A	N/A				N/A	N/A	N/A	
19	N/A	N/A				N/A	N/A	N/A	
20	N/A	N/A				N/A	N/A	N/A	

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 360-97366

Analyst: Benoit, Gary R

Batch Open: 12/6/2012 8:00:00AM

Method Code: 360-DI_LEACH-360

Batch End:

Batch Notes

Balance ID

Blank Soil Lot Number

Batch Comment

Comments

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 360-97366 Analyst: Benoit, Gary R Batch Open: 12/6/2012 8:00:00AM

Method Code: 360-DI_LEACH-360 Batch End:

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
LCS 360-97366/1	W12H_PH_6_00001	20 mL	20 mL		

Other Reagents:

Reagent	Amount/Units	Lot#:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Coversheet—Inorganics Dept

Method Name: ORP Method Reference: 2580B Date of Analytical Run: 12-6-12

Primary Reviewer's Initials & Date: LWE 12-11-12 Secondary Reviewer's Initials & Date: [illegible]

Batch Numbers	97369				

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.)	✓			56583
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: 12-6-12

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
Turbidity	EPA 180.1 Nephelmetric
ORP	SM2580B

SAMPLE ID #	Time of Analysis	pH Analysis		ORP	Color			Odor	Turbidity		
		pH (SU)	Temp °C	ORP (mV)	Dilution Factor (DF)	Observed Dil'd Color (C)	Color (units) [=DF x C]	TON	Dilution Factor (DF)	Observed Dil'd Turb. (T)	Turbidity (NTU) [=DF x T]
W12H_PH6 LCS 6.0	0838	5.97	18.9°								
W12F_ORP_LCS ORP LCS	0901			421							
480-29598-C-1	0909	3.36	19.3°	113							
-C-2	0915	4.07	19.4°	99							
-C-2-Dup	0919	4.01	19.2°	96							
-C-3	0924	4.04	19.1°	75							
-C-4	0928	4.33	19.1°	82							
-C-5	0932	3.73	19.2°	79							
-C-6	0938	3.85	19.2°	73							
-7-C	0942	6.02	19.4°	000							
-C-8	0946	6.15	19.6°	-000							
-C-9	0951	3.88	19.7°	49							
CCV 7.00	0957	6.97	19.6°								
480-29598-C-10	1001	4.24	19.6°	34							

pH Meter Calibration: Date & Time Calibrated: 12-6-12 0834 Analyst Initials: GRB Meter Slope = 99.5

Buffer Lot Numbers (Fisher Sci.): pH 4.00 = 120144 pH 7.00 = 114197 pH 10.01 = 114767

BL-Wet-016 r4
03/06/2012

TestAmerica WESTFIELD

SANITARY CHEMICAL ANALYSIS

Analyst: GZB

Date: 12-6-12

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
Turbidity	EPA 180.1 Nephelmetric
ORP	SM2580B

SAMPLE ID #	Time of Analysis	pH Analysis		ORP	Color			Odor	Turbidity		
		pH (SU)	Temp °C	ORP (mV)	Dilution Factor (DF)	Observed Dil'd Color (C)	Color (units) [=DF x C]	TON	Dilution Factor (DF)	Observed Dil'd Turb. (T)	Turbidity (NTU) [=DF x T]
Watertown LBG Ø1Ø1	1241	7.36	7.9°								
LBG Ø2Ø1	1245	6.58	8.9°								
Norwood LBG Ø1Ø1	1249	6.59	8.9°								
↳ DUP	1254	6.63	10.1°								
CCV 7.00	1700	7.02	19.9°								

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)

CKP

Batch Number: 360-97367 | Analyst: Benoit, Gary R | Batch Open: 12/6/2012 8:00:00AM

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	Dlv Rank	Comments	Output Sample Lab ID
1	LCS~360-97367/1 N/A	N/A		20 g	20 mL	N/A	N/A	N/A		LCS 360-97367/1-A
2	480-29598-C-1 (2580B)	N/A	Solid	20 g	20 mL	12/18/12	9_Days - R	4		480-29598-C-1-B
3	480-29598-C-2 (2580B)	N/A	Solid	20 g	20 mL	12/18/12	9_Days - R	4		480-29598-C-2-C
	480-29598-C-2~DU (2580B)	N/A	Solid	20 g	20 mL	12/18/12	9_Days - R	4		480-29598-C-2-D DU
	480-29598-C-3 (2580B)	N/A	Solid	20 g	20 mL	12/18/12	9_Days - R	4		480-29598-C-3-B
	480-29598-C-4 (2580B)	N/A	Solid	20 g	20 mL	12/18/12	9_Days - R	4		480-29598-C-4-C
	480-29598-C-5 (2580B)	N/A	Solid	20 g	20 mL	12/18/12	9_Days - R	4		480-29598-C-5-B
8	480-29598-C-6 (2580B)	N/A	Solid	20 g	20 mL	12/18/12	9_Days - R	4		480-29598-C-6-B
9	480-29598-C-7 (2580B)	N/A	Solid	20 g	20 mL	12/18/12	9_Days - R	4		480-29598-C-7-B
10	480-29598-C-8 (2580B)	N/A	Solid	20 g	20 mL	12/18/12	9_Days - R	4		480-29598-C-8-B
11	480-29598-C-9 (2580B)	N/A	Solid	20 g	20 mL	12/18/12	9_Days - R	4		480-29598-C-9-B
12	480-29598-C-10 (2580B)	N/A	Solid	20 g	20 mL	12/18/12	9_Days - R	4		480-29598-C-10-B

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 360-97367 Analyst: Benoit, Gary R Batch Open: 12/6/2012 8:00:00AM

Method Code: 360-DI_LEACH-360 Batch End:

Batch Notes

Balance ID

Blank Soil Lot Number

Batch Comment

Comments

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 360-97367 | Analyst: Benoit, Gary R | Batch Open: 12/6/2012 8:00:00AM

Method Code: 360-DI_LEACH-360 | Batch End:

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
LCS 360-97367/1	W12F_ORP_LCS_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

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sampler: David Chapman	Lab PM:	Carrier Tracking No(s):	COC No: 25424
Client Contact: David Chapman	Phone: 339-927-3793	E-Mail:	Page: 1 of 2
Company: AMEC			Job #: 480-29598
Address: 2 Robbins Rd.	Due Date Requested: standard		
City: Westford	TAT Requested (days): standard		
State, Zip: MA 01886	Quote #:		
Phone: 978-692-9090	PO #:		
Email: David.chapman@amec.com	WO #:		
Project Name/number: Olin, Wilmington, 6/07/2006	SSOW#:		
Site: Olin, Wilmington			

Client Information

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?	Hex Cr SW-846 7199	SVOCs 8270C (low)	Metals SW846 6010B	organo-tin	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
OC-SS-524-0-0(1.0-XXX	12-5-12	9:20	C	S	DLC	N	N	3				3	low level SVOCs
OC-SS-525-0.0(1.0-XXX	12-5-12	9:45	C	S	DLC	N	N	3				3	(SVOCs analysis =
OC-SB-526-0.0(1.0-XXX	12-5-12	10:40	"	"	"	"	"	3	1			3	SVOC/BEHP)
OC-SB-526-1.0(3.0-XXX	12-5-12	10:45	"	"	"	"	"	3	1			3	
OC-SB-527-0.0(1.0-XXX	12-5-12	13:35	"	"	"	"	"	3				3	include tin on
OC-SB-527-1.0(3.0-XXX	12-5-12	13:40	"	"	"	"	"	3				3	metals list
OC-SB-528-0.0(1.0-XXX	12-5-12	14:00	"	"	"	"	"	3	1	1	1	4	
OC-SB-528-1.0(3.0-XXX	12-5-12	14:05	"	"	"	"	"	3	1	1	1	4	Please contact
OC-SB-528-1.0(3.0-XMS(MSD	12-5-12	14:05	"	"	"	"	"			1	1	1	Becky Mason w/
OC-SB-529-0.0(1.0-XXX	12-5-12	12:30	"	"	"	"	"	3	1			3	questions

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
H - Ascorbic Acid
I - Ice
J - DI Water
M - Hexane
N - None
P - Na2O4S
Q - Na2SO3
R - Na2S2SO3
S - H2SO4
Z - other (specify)

Regulatory programs:
MCP ☒ GW1/S1 ☒
RCP ☐ CT RSR ☐
DEP Form ☐ EDD Required ☐
EPA superfund ☒

Field

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

Special Instructions/QC Requirements:

Deliverable Requested: I, II, III, IV, Other (specify)

Relinquished by: David Chapman	Date/Time: 12-5-12 / 15:45	Company: AMEC	Received by: Jerry Oak	Date/Time: 12-5-12 1545	Company
Relinquished by: Jerry Oak	Date/Time: 12-5-12	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Cooler Temperature(s) °C and Other Remarks:

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:

TAL-8245-360 1111

03/11/2013

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

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information			
Client Contact: David Chapman	Sampler: David Chapman	Lab PM:	Carrier Tracking No(s):
Company: AMEC	Phone: 339-927-3793	E-Mail:	COC No: 25422
Address: 2 Robbins Rd.	Due Date Requested: Standard		Page: 2 of 2
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: olin, Wilmington/6107120016	WO #:		
Site: olin, wilmington	SSOW#:		

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, H - Ascorbic Acid, I - Ice, J - DI Water, M - Hexane, N - None, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, Z - other (specify)

Regulatory programs:
MCP ☒ GW1/S1 ☒
RCP ☐ CT RSR ☐
DEP Form ☐ EDD Required ☐
EPA superfund ☒

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?	Hex Cr SW-846-7199	SVOC 8270C (low)	Metals SW-846 6010B	Organo-Tin	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
OC-SB-529-1.0/3.0-xxxx	12-5-12	12:35	C	S	DC	N	N	3	1			3	low level SVOCs
DUP-2	12-5-12	/	C	S	DC	N	N			1	1	1	SVOC analysis = SVOC / BEHP
													include tin on metals list
													Please contact Becky Mason 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	12-5-12 15:45	AMEC	[signature]	12-5-12 15:45	
Relinquished by: [signature]	Date/Time: 12-5-12	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

TAL-8245-360 1111

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-29598-1

SDG No.:

Batch Number: 94744 Batch Start Date: 12/07/12 15:01 Batch Analyst: Doyle, Matthew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
480-29598-A-8 MS	OC-SB-528-1.0/3.0-XMS	Moisture	T	1	4.45 g	13.32 g	7.63 g		
480-29598-A-8 MSD	OC-SB-528-1.0/3.0-MSD	Moisture	T	1	4.45 g	13.32 g	7.63 g		
480-29598-B-11	OC-DUP-2	Moisture	T	2	4.45 g	14.80 g	9.26 g		

Batch Notes	
Batch Comment	pp-fh-05-12 4.45
Date samples were placed in the oven	12/07/12
Time samples were place in the oven	1501
Date samples were removed from oven	12/08/12
Time Samples were removed from oven	855

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 Edison Job No.: 480-29598-1

SDG No.:

Batch Number: 139400 Batch Start Date: 12/12/12 11:54 Batch Analyst: Brown, Sarah E

Batch Method: 3060A Batch End Date: 12/12/12 12:54

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WThcrIM 00040	WThcrPbCr 00004	WThcrsLCS 00067	
MB 460-139400/1		3060A, 7199		2.50 g	100 mL				
LCSS 460-139400/2		3060A, 7199		2.50 g	100 mL			5 mL	
LCSI 460-139400/3		3060A, 7199		2.50 g	100 mL		0.011 g		
480-29598-B-4	OC-SB-526-1.0/3.0-XXX	3060A, 7199	T	2.50 g	100 mL				
480-29598-B-4 DU	OC-SB-526-1.0/3.0-XXX	3060A, 7199	T	2.50 g	100 mL				
480-29598-B-4 MSS	OC-SB-526-1.0/3.0-XXX	3060A, 7199	T	2.50 g	100 mL	1 mL			
480-29598-B-4 MSI	OC-SB-526-1.0/3.0-XXX	3060A, 7199	T	2.50 g	100 mL		0.011 g		
480-29598-A-1	OC-SS-524-0.0/1.0-XXX	3060A, 7199	T	2.51 g	100 mL				
480-29598-B-2	OC-SS-525-0.0/1.0-XXX	3060A, 7199	T	2.52 g	100 mL				
480-29598-A-3	OC-SB-526-0.0/1.0-XXX	3060A, 7199	T	2.53 g	100 mL				
480-29598-A-5	OC-SB-527-0.0/1.0-XXX	3060A, 7199	T	2.44 g	100 mL				
480-29598-B-6	OC-SB-527-1.0/3.0-XXX	3060A, 7199	T	2.55 g	100 mL				
480-29598-A-7	OC-SB-528-0.0/1.0-XXX	3060A, 7199	T	2.42 g	100 mL				
480-29598-A-8	OC-SB-528-1.0/3.0-XXX	3060A, 7199	T	2.54 g	100 mL				
480-29598-A-9	OC-SB-529-0.0/1.0-XXX	3060A, 7199	T	2.54 g	100 mL				
480-29598-A-10	OC-SB-529-1.0/3.0-XXX	3060A, 7199	T	2.59 g	100 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 480-29598-1

SDG No.:

Batch Number: 139400 Batch Start Date: 12/12/12 11:54 Batch Analyst: Brown, Sarah E

Batch Method: 3060A Batch End Date: 12/12/12 12:54

Batch Notes	
Alkaline Digestion Solution Reagent ID	C9022-12 exp. 01/03/13
Batch Comment	Temperature after 30 min.= 93C (Uncorrected); 94C (Corrected)
First End time	12:54
Potassium Phosphate Buffer Reagent ID	C8558-12 exp. 02/20/13
Lead Chromate Lot #	BCBC2419 exp. 09/16/15
Lead Chromate Vendor ID	Aldrich
Magnesium Chloride Lot Number	2482C441 exp. 07/02/17
Magnesium Chloride Vendor	Amresco
First Start time	11:54
Ending Temperature	93C (Uncorrected); 94C (Corrected) Celsius
Starting Temperature	90C (Uncorrected); 91C (Corrected) 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 BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 480-29598-1

SDG No.:

Batch Number: 139572 Batch Start Date: 12/12/12 12:17 Batch Analyst: Brown, Sarah E

Batch Method: 7199 Batch End Date: 12/13/12 09:24

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	Initial pH	WThcrIM5 00446	WThcrIM6 00433	AnalysisComment	
ICV 460-139572/6		7199		100 mL	9.30		2.5 mL	All samples run in duplicate, as per method; higher result reported as primary, lower result rejected	
ICB 460-139572/7		7199			9.25			Initial pH=pH (in SU between 9.00-9.50) after adjustment with 1:1 HNO3 (C9024-12 exp. 06/03/13)	
MB 460-139400/1-A ^10		7199			9.19				
LCSS 460-139400/2-A ^25		7199			9.29				
LCSI 460-139400/3-A ^500		7199			9.25				
480-29598-B-4-A ^10	OC-SB-526-1.0/3.0-XXX	7199	T		9.07			light brown	
480-29598-B-4-B DU ^10	OC-SB-526-1.0/3.0-XXX	7199	T		9.25			light brown	
CCV 460-139572/18		7199		100 mL	9.30		2.5 mL		
CCB 460-139572/19		7199			9.25				
480-29598-B-4-C MSS ^40	OC-SB-526-1.0/3.0-XXX	7199	T		9.41			light brown	
480-29598-B-4-D MSI ^500	OC-SB-526-1.0/3.0-XXX	7199	T		9.37			yellow	
480-29598-B-4-A PDS ^40	OC-SB-526-1.0/3.0-XXX	7199	T	50 mL	9.09	1.25 mL			
480-29598-A-1-A ^10	OC-SS-524-0.0/1.0-XXX	7199	T		9.12			dark brown	
480-29598-B-2-A ^10	OC-SS-525-0.0/1.0-XXX	7199	T		9.02			brown	

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 Edison Job No.: 480-29598-1

SDG No.:

Batch Number: 139572 Batch Start Date: 12/12/12 12:17 Batch Analyst: Brown, Sarah E

Batch Method: 7199 Batch End Date: 12/13/12 09:24

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	Initial pH	WThcrIM5 00446	WThcrIM6 00433	AnalysisComment	
CCV 460-139572/30		7199		100 mL	9.30		2.5 mL		
CCB 460-139572/31		7199			9.25				
480-29598-A-3-A ^10	OC-SB-526-0.0/1.0-XXX	7199	T		9.42			dark brown	
480-29598-A-5-A ^10	OC-SB-527-0.0/1.0-XXX	7199	T		9.40			brown	
480-29598-B-6-A ^10	OC-SB-527-1.0/3.0-XXX	7199	T		9.19			light brown	
480-29598-A-7-A ^10	OC-SB-528-0.0/1.0-XXX	7199	T		9.20			dark brown	
480-29598-A-8-C ^10	OC-SB-528-1.0/3.0-XXX	7199	T		9.47			brown	
CCV 460-139572/42		7199		100 mL	9.30		2.5 mL		
CCB 460-139572/43		7199			9.25				
CCV 460-139572/44		7199		100 mL	9.30		2.5 mL		
CCB 460-139572/45		7199			9.25				
480-29598-A-9-A ^10	OC-SB-529-0.0/1.0-XXX	7199	T		9.28			dark brown	
480-29598-A-10-A ^10	OC-SB-529-1.0/3.0-XXX	7199	T		9.08			yellow	
CCV 460-139572/50		7199		100 mL	9.30		2.5 mL		
CCB 460-139572/51		7199			9.25				

Batch Notes	
Batch Comment	Cal. curve: IC(2074-2077)12; CCV: IC(2078)12 exp. 12/13/12
Buffer Lot #	C8587-12 exp. 02/24/13
Eluent 1 Lot	1300-12 exp. 12/17/12
Filter Lot #	Nalgene #130-4045
pH Meter ID	B
Post Column Reagent Lot	1301-12 exp. 12/15/12

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 Edison Job No.: 480-29598-1

SDG No.:

Batch Number: 139572 Batch Start Date: 12/12/12 12:17 Batch Analyst: Brown, Sarah E

Batch Method: 7199 Batch End Date: 12/13/12 09:24

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 Edison Job No.: 480-29598-1

SDG No.:

Batch Number: 138869 Batch Start Date: 12/09/12 11:55 Batch Analyst: Robinson, Ian

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
480-29598-A-1	OC-SS-524-0.0/1.0-XXX	Moisture	T	40	1.01 g	6.38 g	3.44 g		
480-29598-B-2	OC-SS-525-0.0/1.0-XXX	Moisture	T	41	0.99 g	6.75 g	4.79 g		
480-29598-B-2 DU	OC-SS-525-0.0/1.0-XXX	Moisture	T	42	0.97 g	6.30 g	4.67 g		

Batch Notes	
Balance ID	104 No Unit
Date samples were placed in the oven	12/09/12
Oven Temp when samples are put in oven	105 Degrees C
Time samples were place in the oven	12:15
Date samples were removed from oven	12/10/12
Oven Temp when samples removed from oven	104 Degrees C
Time Samples were removed from oven	11:00
Oven ID	Oven 1
ID number of the thermometer	N71565
Uncorrected In Temperature	105 Celsius
Uncorrected Out Temperature	104 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 BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 480-29598-1

SDG No.:

Batch Number: 138871 Batch Start Date: 12/09/12 12:15 Batch Analyst: Robinson, Ian

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
480-29598-A-3	OC-SB-526-0.0/1.0-XXX	Moisture	T	44	1.00 g	6.80 g	4.39 g		
480-29598-B-4	OC-SB-526-1.0/3.0-XXX	Moisture	T	45	1.00 g	6.53 g	5.14 g		
480-29598-A-5	OC-SB-527-0.0/1.0-XXX	Moisture	T	46	0.98 g	6.72 g	5.02 g		
480-29598-B-6	OC-SB-527-1.0/3.0-XXX	Moisture	T	47	1.03 g	6.70 g	4.89 g		
480-29598-A-7	OC-SB-528-0.0/1.0-XXX	Moisture	T	48	1.06 g	6.10 g	2.42 g		
480-29598-A-8	OC-SB-528-1.0/3.0-XXX	Moisture	T	49	0.99 g	6.36 g	3.19 g		
480-29598-A-9	OC-SB-529-0.0/1.0-XXX	Moisture	T	50	1.03 g	6.50 g	4.28 g		
480-29598-A-10	OC-SB-529-1.0/3.0-XXX	Moisture	T	51	1.02 g	6.45 g	5.32 g		

Batch Notes	
Balance ID	104 No Unit
Date samples were placed in the oven	12/09/12
Oven Temp when samples are put in oven	105 Degrees C
Time samples were place in the oven	12:35
Date samples were removed from oven	12/09/12
Oven Temp when samples removed from oven	104 Degrees C
Time Samples were removed from oven	11:00
Oven ID	Oven 1
ID number of the thermometer	N71565
Uncorrected In Temperature	105 Celsius
Uncorrected Out Temperature	104 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 BATCH WORKSHEET

Lab Name: TestAmerica Westfield Job No.: 480-29598-1

SDG No.:

Batch Number: 97366 Batch Start Date: 12/06/12 08:00 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 360-97366/1		DI Leach, 9045C		20 g	20 mL	20 mL			
480-29598-C-1	OC-SS-524-0.0/1.0-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29598-C-2	OC-SS-525-0.0/1.0-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29598-C-2 DU	OC-SS-525-0.0/1.0-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29598-C-3	OC-SB-526-0.0/1.0-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29598-C-4	OC-SB-526-1.0/3.0-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29598-C-5	OC-SB-527-0.0/1.0-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29598-C-6	OC-SB-527-1.0/3.0-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29598-C-7	OC-SB-528-0.0/1.0-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29598-C-8	OC-SB-528-1.0/3.0-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29598-C-9	OC-SB-529-0.0/1.0-XXX	DI Leach, 9045C	S	20 g	20 mL				
480-29598-C-10	OC-SB-529-1.0/3.0-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.: 480-29598-1

SDG No.:

Batch Number: 97368 Batch Start Date: 12/11/12 09:27 Batch Analyst: Benoit, Gary R

Batch Method: 9045C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	W12H_PH_7 00001					
CCV 360-97368/12		9045C		20 mL					
CCV 360-97368/14		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.: 480-29598-1

SDG No.:

Batch Number: 97367 Batch Start Date: 12/06/12 08:00 Batch Analyst: Benoit, Gary R

Batch Method: DI Leach Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	W12F_ORP_LCS 00001			
LCS 360-97367/1		DI Leach, SM 2580B		20 g	20 mL	20 mL			
480-29598-C-1	OC-SS-524-0.0/1.0-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29598-C-2	OC-SS-525-0.0/1.0-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29598-C-2 DU	OC-SS-525-0.0/1.0-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29598-C-3	OC-SB-526-0.0/1.0-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29598-C-4	OC-SB-526-1.0/3.0-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29598-C-5	OC-SB-527-0.0/1.0-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29598-C-6	OC-SB-527-1.0/3.0-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29598-C-7	OC-SB-528-0.0/1.0-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29598-C-8	OC-SB-528-1.0/3.0-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29598-C-9	OC-SB-529-0.0/1.0-XXX	DI Leach, SM 2580B	S	20 g	20 mL				
480-29598-C-10	OC-SB-529-1.0/3.0-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

29598

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

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information				
Client Contact: David Chapman	Sampler: David Chapman	Lab PM:	Carrier Tracking No(s):	COC No: 25424
	Phone: 339-927-3793	E-Mail:		Page: 1 of 2
Company: AMEC				Job #: 460-29598
Address: 2 Robbins Rd	Due Date Requested: Standard			
City: Westford	TAT Requested (days): Standard			
State, Zip: MA 01886				
Phone: 978-692-9090	Quote #:			
Email: David.chapman@amec.com	PO #:			
Project Name/number: Olin, Wilmington, 6107120096	WO #:			
Site: Olin, 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?	Hex Cr SW-846 7199	SVOCs 8270C (low)	Metals SW846 6010B	organo-Tin								Total Number of containers	Special Instructions/Note:
				Preservation Code:	X	X	X													
OC-SS-524-0.0(1.0-xxx	12-5-12	9:20	C	S	DLC	N	N	3											3	low level SVOCs
OC-SS-525-0.0(1.0-xxx	12-5-12	9:45	C	S	DLC	N	N	3											3	(SVOCs analysis=
OC-SB-526-0.0(1.0-xxx	12-5-12	10:40	"	"	"	"	"	3	1										3	SVOC (BEHP)
OC-SB-526-1.0(3.0-xxx	12-5-12	10:45	"	"	"	"	"	3	1										3	
OC-SB-527-0.0(1.0-xxx	12-5-12	13:35	"	"	"	"	"	3											3	include tin on
OC-SB-527-1.0(3.0-xxx	12-5-12	13:40	"	"	"	"	"	3											3	metals list
OC-SB-528-0.0(1.0-xxx	12-5-12	14:00	"	"	"	"	"	3	1	1	1								4	
OC-SB-528-1.0(3.0-xxx	12-5-12	14:05	"	"	"	"	"	3	1	1	1								4	Please contact
OC-SB-528-1.0(3.0-xMS(MSD	12-5-12	14:05	"	"	"	"	"			1	1								1	Becky Mason w/
OC-SB-529-0.0(1.0-xxx	12-5-12	12:30	"	"	"	"	"	3	1										3	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	12-5-12 1515	AMEC		12-5-12 1545	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	12-5-12 1815			12/5/12 1815	
Relinquished by: L. Kolb	Date/Time: 12/6/12 1700	Company: TA	Received by:	Date/Time: 12/7/12 0900	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 0.8 ICE 3.1 #2

TAL-8245-360 1111

Page 1166 of 1172

03/11/2013

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

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: David Chapman	Lab PM:	Carrier Tracking No(s):	COC No: 25422
Client Contact: David Chapman	Phone: 339-927-3793	E-Mail:		Page: 2 of 2
Company: AMEC				Job #: 460-29598
Address: 2 Robbins Rd.	Due Date Requested: Standard			
City: Westford	TAT Requested (days): Standard			
State, Zip: MA 01886				
Phone: 978-692-9090	Quote #:			
Email: David.chapman@amec.com	PO #:			
Project Name/number: Olin, Wilmington/6107120016	WO #:			
Site: Olin, 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?	Hex Cr SW-846-7199	SVOC 8270C (low)	Metals SW-846 6010B	Organo-Tin	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	X						
OC-SB-529-1.0/3.0-xxx	12-5-12	12:35	C	S	OC	N	N	3	1			3	low level SVOCs
DUP-2	12-5-12	/	C	S	OC	N	N			1	1	1	SVOC analysis =
													SVOC / BEHP
													include tin on
													metals list
													Please contact
													Becky Mason
													w/ questions

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Ascorbic Acid; I - Ice; J - DI Water; M - Hexane; N - None; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; Z - other (specify)

Regulatory programs:
MCP ☒ GW1/S1 ☒
RCP ☐ CT RSR ☐
DEP Form ☐ EDD Required ☐
EPA Superfund ☒

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	12-5-12 115:45	AMEC		12-5-12 1545	
	12-5-12 1815			12/5/12 1815	
C. Kolb	12/6/12 1700	TA		12/7/12 0900	

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 0.8 ICE 3.1 & 2

TAL-8245-360 1111

Login Sample Receipt Checklist

Client: Olin Corporation

Job Number: 480-29598-1

Login Number: 29598

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: 480-29598-1

Login Number: 29598
List Number: 1
Creator: Marion, Greg T

List Source: TestAmerica Burlington
List Creation: 12/07/12 04:31 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	435359,358
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4ºC IR GUN ID 181/CF=-0.2
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").	N/A	
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: 480-29598-1

Login Number: 29598
List Number: 2
Creator: Kelly, Kathryn A

List Source: TestAmerica Burlington
List Creation: 12/20/12 08:40 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time.		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

Login Sample Receipt Checklist

Client: Olin Corporation

Job Number: 480-29598-1

Login Number: 29598
List Number: 1
Creator: Villadarez, Gerson Timothy S

List Source: TestAmerica Edison
List Creation: 12/07/12 11:34 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.	N/A	Not present
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	2.4°C IR#4
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?	False	
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.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Olin Corporation

Job Number: 480-29598-1

Login Number: 29598
List Number: 1
Creator: Emerich, Rich W

List Source: TestAmerica Westfield
List Creation: 12/10/12 10:31 AM

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.	False	Unknown; no cooler temperature recorded on COC.
Cooler Temperature is recorded.	False	
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	