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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

CHECKED FOR COMPLETENESS OF PARAMETERS ORDERED BY:

Job Number: 480-29976-1

Job Description: Olin Chemical Wilmington MA Superfund S

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

Attention: Mr. James Cashwell

Approved for release.
Chris F Reynolds
QA Manager
1/9/2013 10:34 AM

Designee for
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01/09/2013

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

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# MassDEP Analytical Protocol Certification Form

| | | | |
|---|---|---|---|
| Laboratory Name: | **TestAmerica Buffalo** | Project #: | **480-29976-1** |
| Project Location: | **Olin Wilmington** | RTN: | |

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

**480-29976-1 [1-12]**

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).<br>b. APH and TO-15 Methods only: Was the complete analyte list reported for each method? | ☐ Yes ☐ No<br>☐ 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 10:20 |

This form has been electronically signed and approved

# CASE NARRATIVE
## Client: Olin Corporation

## Project: Olin Chemical Wilmington MA Superfund S
## Report Number: 480-29976-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In 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 12/11/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.4 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.

2-Butanone (MEK) and Dichlorodifluoromethane failed the recovery criteria high for LCS 480-95715/5. 2-Butanone (MEK) failed the recovery criteria high for LCSD 480-95715/6. Refer to the QC report for details.

**VOLATILE ORGANIC COMPOUNDS (GC-MS)**
Samples OC-SB-480-6.0/8.0-XXX (480-29976-5), OC-SB-484-5.5/7.5-XXX (480-29976-6), OC-SB-486-8.0/10-XXX (480-29976-7), OC-SB-491-6.0/8.0-XXX (480-29976-8) and OC-DUP-3 (480-29976-9) were analyzed for volatile organic compounds (GC-MS) in accordance with SW846 8260C. The samples were prepared and analyzed on 12/14/2012 and 12/17/2012.

**LCS**
2,4,4-Trimethyl-2-pentene failed the recovery criteria high for LCS 480-96180/1-A. 2,4,4-Trimethyl-1-pentene exceeded the rpd limit. Refer to the QC report for details.

**CCV**
The continuing calibration verification (CCV) for 2,4,4-Trimethyl-1-pentene and 2,4,4-Trimethyl-2-pentene associated with analytical batch 95715 recovered outside of the MCP control limits. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference.

**Initial Calibration**
The initial calibration curve 11594 was outside acceptance criteria for 2,4,4-trimethyl-1-pentene. MCP protocol allows for 10% of the target compounds to be outside the 20% RSD but not over 40% RSD.

**General**
At the request of the client, an abbreviated/modified MCP analyte list was reported for this job, TMPs only reported.

No other difficulties were encountered during the VOC analyses.

All other quality control parameters were within the acceptance limits.

**REDUCTION-OXIDATION (REDOX) POTENTIAL**
Samples OC-SB-504-0.0/1.0-XXX (480-29976-1), OC-SB-504-7.5/9.5-XXX (480-29976-2), OC-SB-505-0.0/1.0-XXX (480-29976-3), OC-SB-505-5.0/7.0-XXX (480-29976-4), OC-SB-508-0.0/1.0-XXX (480-29976-10), OC-SB-508-8.0/10-XXX (480-29976-11) and OC-SB-508-12/14-XXX (480-29976-12) were analyzed for Reduction-Oxidation (REDOX) Potential in accordance with SM20 2580B Oxidation Reduction Potential. The samples were leached on 12/12/2012 and analyzed on 12/12/2012.

No difficulties were encountered during the redox analyses.

All quality control parameters were within the acceptance limits.

**HEXAVALENT CHROMIUM**
Samples OC-SB-504-0.0/1.0-XXX (480-29976-1), OC-SB-504-7.5/9.5-XXX (480-29976-2), OC-SB-505-0.0/1.0-XXX (480-29976-3),

OC-SB-505-5.0/7.0-XXX (480-29976-4), OC-SB-508-0.0/1.0-XXX (480-29976-10), OC-SB-508-8.0/10-XXX (480-29976-11) and OC-SB-508-12/14-XXX (480-29976-12) were analyzed for Hexavalent chromium in accordance with SW 846 7199. The samples were prepared on 01/04/2013 and analyzed on 01/05/2013.

**General**
Sample OC-SB-508-0.0/1.0-XXX (480-29976-10)[100X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The sample matrix has been determined to be reductive in nature (480-29976-2 MS), (480-29976-2 MSD), (480-29976-2 MSI), OC-SB-504-0.0/1.0-XXX (480-29976-1), OC-SB-504-7.5/9.5-XXX (480-29976-2), OC-SB-505-0.0/1.0-XXX (480-29976-3), OC-SB-505-5.0/7.0-XXX (480-29976-4), OC-SB-508-0.0/1.0-XXX (480-29976-10), OC-SB-508-12/14-XXX (480-29976-12), OC-SB-508-8.0/10-XXX (480-29976-11)

No difficulties were encountered during the hex chrome analyses.

All quality control parameters were within the acceptance limits.

**PH**
Samples OC-SB-504-0.0/1.0-XXX (480-29976-1), OC-SB-504-7.5/9.5-XXX (480-29976-2), OC-SB-505-0.0/1.0-XXX (480-29976-3), OC-SB-505-5.0/7.0-XXX (480-29976-4), OC-SB-508-0.0/1.0-XXX (480-29976-10), OC-SB-508-8.0/10-XXX (480-29976-11) and OC-SB-508-12/14-XXX (480-29976-12) were analyzed for pH in accordance with EPA SW-846 Method 9045C. The samples were leached on 12/12/2012 and analyzed on 12/12/2012.

No difficulties were encountered during the pH analyses.

All quality control parameters were within the acceptance limits.

**PERCENT SOLIDS**
Samples OC-SB-504-0.0/1.0-XXX (480-29976-1), OC-SB-504-7.5/9.5-XXX (480-29976-2), OC-SB-505-0.0/1.0-XXX (480-29976-3), OC-SB-505-5.0/7.0-XXX (480-29976-4), OC-SB-480-6.0/8.0-XXX (480-29976-5), OC-SB-484-5.5/7.5-XXX (480-29976-6), OC-SB-486-8.0/10-XXX (480-29976-7), OC-SB-491-6.0/8.0-XXX (480-29976-8), OC-DUP-3 (480-29976-9), OC-SB-508-0.0/1.0-XXX (480-29976-10), OC-SB-508-8.0/10-XXX (480-29976-11) and OC-SB-508-12/14-XXX (480-29976-12) were analyzed for percent solids in accordance with EPA Moisture. The samples were analyzed on 12/12/2012 and 12/17/2012.

No difficulties were encountered during the % solids analyses.

All quality control parameters were within the acceptance limits.

# SAMPLE SUMMARY

Client: Olin Corporation

Job Number: 480-29976-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---|---|---|---|---|
| 480-29976-1 | OC-SB-504-0.0/1.0-XXX | Solid | 12/11/2012 0805 | 12/11/2012 1715 |
| 480-29976-2 | OC-SB-504-7.5/9.5-XXX | Solid | 12/11/2012 0830 | 12/11/2012 1715 |
| 480-29976-3 | OC-SB-505-0.0/1.0-XXX | Solid | 12/11/2012 0925 | 12/11/2012 1715 |
| 480-29976-4 | OC-SB-505-5.0/7.0-XXX | Solid | 12/11/2012 0945 | 12/11/2012 1715 |
| 480-29976-5 | OC-SB-480-6.0/8.0-XXX | Solid | 12/11/2012 1010 | 12/11/2012 1715 |
| 480-29976-6 | OC-SB-484-5.5/7.5-XXX | Solid | 12/11/2012 1040 | 12/11/2012 1715 |
| 480-29976-7 | OC-SB-486-8.0/10-XXX | Solid | 12/11/2012 1215 | 12/11/2012 1715 |
| 480-29976-8 | OC-SB-491-6.0/8.0-XXX | Solid | 12/11/2012 1300 | 12/11/2012 1715 |
| 480-29976-8MS | OC-SB-491-6.0/8.0-XXX | Solid | 12/11/2012 1300 | 12/11/2012 1715 |
| 480-29976-8MSD | OC-SB-491-6.0/8.0-XXX | Solid | 12/11/2012 1300 | 12/11/2012 1715 |
| 480-29976-9 | OC-DUP-3 | Solid | 12/11/2012 0000 | 12/11/2012 1715 |
| 480-29976-10 | OC-SB-508-0.0/1.0-XXX | Solid | 12/11/2012 1325 | 12/11/2012 1715 |
| 480-29976-11 | OC-SB-508-8.0/10-XXX | Solid | 12/11/2012 1340 | 12/11/2012 1715 |
| 480-29976-12 | OC-SB-508-12/14-XXX | Solid | 12/11/2012 1350 | 12/11/2012 1715 |

# EXECUTIVE SUMMARY - Detections

Client: Olin Corporation

Job Number: 480-29976-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **480-29976-1** | **OC-SB-504-0.0/1.0-XXX** | | | | | |
| Percent Moisture | | 27 | | 1.0 | % | Moisture |
| Percent Solids | | 73 | | 1.0 | % | Moisture |
| Cr (VI) | | 0.29 | | 0.27 | mg/Kg | 7199 |
| ***Soluble*** | | | | | | |
| pH-Soluble | | 7.18 | | 1.00 | SU | 9045C |
| Oxidation Reduction Potential-Soluble | | 36 | | 0.010 | millivolts | SM 2580B |
| **480-29976-2** | **OC-SB-504-7.5/9.5-XXX** | | | | | |
| Percent Moisture | | 23 | | 1.0 | % | Moisture |
| Percent Solids | | 77 | | 1.0 | % | Moisture |
| ***Soluble*** | | | | | | |
| pH-Soluble | | 7.11 | | 1.00 | SU | 9045C |
| Oxidation Reduction Potential-Soluble | | 26 | | 0.010 | millivolts | SM 2580B |
| **480-29976-3** | **OC-SB-505-0.0/1.0-XXX** | | | | | |
| Percent Moisture | | 4.8 | | 1.0 | % | Moisture |
| Percent Solids | | 95 | | 1.0 | % | Moisture |
| Cr (VI) | | 0.34 | | 0.21 | mg/Kg | 7199 |
| ***Soluble*** | | | | | | |
| pH-Soluble | | 4.99 | | 1.00 | SU | 9045C |
| Oxidation Reduction Potential-Soluble | | 49 | | 0.010 | millivolts | SM 2580B |
| **480-29976-4** | **OC-SB-505-5.0/7.0-XXX** | | | | | |
| Percent Moisture | | 27 | | 1.0 | % | Moisture |
| Percent Solids | | 73 | | 1.0 | % | Moisture |
| Cr (VI) | | 0.58 | | 0.27 | mg/Kg | 7199 |
| ***Soluble*** | | | | | | |
| pH-Soluble | | 6.54 | | 1.00 | SU | 9045C |
| Oxidation Reduction Potential-Soluble | | 19 | | 0.010 | millivolts | SM 2580B |
| **480-29976-5** | **OC-SB-480-6.0/8.0-XXX** | | | | | |
| Percent Moisture | | 6.8 | | 0.10 | % | Moisture |
| Percent Solids | | 93 | | 0.10 | % | Moisture |
| **480-29976-6** | **OC-SB-484-5.5/7.5-XXX** | | | | | |
| 2,4,4-Trimethyl-1-pentene | | 1.6 | J | 4.3 | ug/Kg | 8260C |
| Percent Moisture | | 12 | | 0.10 | % | Moisture |
| Percent Solids | | 88 | | 0.10 | % | Moisture |

## EXECUTIVE SUMMARY - Detections

Client: Olin Corporation

Job Number: 480-29976-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **480-29976-7** | **OC-SB-486-8.0/10-XXX** | | | | | |
| 2,4,4-Trimethyl-1-pentene | | 700 | E | 4.9 | ug/Kg | 8260C |
| 2,4,4-Trimethyl-1-pentene | | 3700 | * | 280 | ug/Kg | 8260C |
| 2,4,4-Trimethyl-2-pentene | | 210 | E | 4.9 | ug/Kg | 8260C |
| 2,4,4-Trimethyl-2-pentene | | 850 | * | 280 | ug/Kg | 8260C |
| Percent Moisture | | 8.8 | | 0.10 | % | Moisture |
| Percent Solids | | 91 | | 0.10 | % | Moisture |
| **480-29976-8** | **OC-SB-491-6.0/8.0-XXX** | | | | | |
| Percent Moisture | | 4.5 | | 0.10 | % | Moisture |
| Percent Solids | | 96 | | 0.10 | % | Moisture |
| **480-29976-9** | **OC-DUP-3** | | | | | |
| Percent Moisture | | 5.3 | | 0.10 | % | Moisture |
| Percent Solids | | 95 | | 0.10 | % | Moisture |
| **480-29976-10** | **OC-SB-508-0.0/1.0-XXX** | | | | | |
| Percent Moisture | | 33 | | 1.0 | % | Moisture |
| Percent Solids | | 67 | | 1.0 | % | Moisture |
| ***Soluble*** | | | | | | |
| pH-Soluble | | 5.51 | | 1.00 | SU | 9045C |
| Oxidation Reduction Potential-Soluble | | 30 | | 0.010 | millivolts | SM 2580B |
| **480-29976-11** | **OC-SB-508-8.0/10-XXX** | | | | | |
| Percent Moisture | | 19 | | 1.0 | % | Moisture |
| Percent Solids | | 81 | | 1.0 | % | Moisture |
| Cr (VI) | | 1.1 | | 0.25 | mg/Kg | 7199 |
| ***Soluble*** | | | | | | |
| pH-Soluble | | 5.69 | | 1.00 | SU | 9045C |
| Oxidation Reduction Potential-Soluble | | 19 | | 0.010 | millivolts | SM 2580B |
| **480-29976-12** | **OC-SB-508-12/14-XXX** | | | | | |
| Percent Moisture | | 18 | | 1.0 | % | Moisture |
| Percent Solids | | 82 | | 1.0 | % | Moisture |
| Cr (VI) | | 0.26 | | 0.24 | mg/Kg | 7199 |
| ***Soluble*** | | | | | | |
| pH-Soluble | | 7.44 | | 1.00 | SU | 9045C |
| Oxidation Reduction Potential-Soluble | | 13 | | 0.010 | millivolts | SM 2580B |

# METHOD SUMMARY

Client: Olin Corporation | Job Number: 480-29976-1

| Description | Lab Location | Method | Preparation Method |
|---|---|---|---|
| **Matrix: Solid** | | | |
| Volatile Organic Compounds (GC/MS) | TAL BUF | MA DEP 8260C | |
| Closed System Purge and Trap | TAL BUF | | SW846 5035 |
| Volatile Organic Compounds (GC/MS) | TAL BUF | MA DEP 8260C | |
| Purge and Trap | TAL BUF | | SW846 5035 |
| Percent Moisture | TAL BUF | EPA Moisture | |
| Percent Moisture | TAL EDI | EPA Moisture | |
| Chromium, Hexavalent (IC) | TAL IRV | SW846 7199 | |
| Alkaline Digestion (Chromium, Hexavalent) | TAL IRV | | SW846 3060A |
| 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 EDI = TestAmerica Edison

TAL IRV = TestAmerica Irvine

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.

## METHOD / ANALYST SUMMARY

Client: Olin Corporation

Job Number: 480-29976-1

| Method | Analyst | Analyst ID |
|---|---|---|
| MA DEP 8260C | Byrnes, Jennifer M | JMB |
| MA DEP 8260C | Hill, Leah | LH |
| SW846 9045C | Emerich, Rich W | RWE |
| EPA Moisture | Doyle, Matthew | MD |
| EPA Moisture | Robinson, Ian | IR |
| SM SM 2580B | Emerich, Rich W | RWE |
| SW846 7199 | Pham, Quynh D | QPD |

Client: Olin Corporation

Job Number: 480-29976-1

**Client Sample ID:** **OC-SB-480-6.0/8.0-XXX**

Lab Sample ID: 480-29976-5

Client Matrix: Solid

% Moisture: 6.8

Date Sampled: 12/11/2012 1010

Date Received: 12/11/2012 1715

**8260C Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 480-95715 | Instrument ID: | HP5973F |
| Prep Method: | 5035 | Prep Batch: | 480-95742 | Lab File ID: | F4308.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.48 g |
| Analysis Date: | 12/14/2012 0250 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 12/14/2012 0035 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| 2,4,4-Trimethyl-1-pentene | | ND | | 0.42 | 4.9 |
| 2,4,4-Trimethyl-2-pentene | | ND | | 0.52 | 4.9 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| Toluene-d8 (Surr) | 85 | | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 86 | | 70 - 130 |
| 4-Bromofluorobenzene (Surr) | 83 | | 70 - 130 |

Client: Olin Corporation

Job Number: 480-29976-1

**Client Sample ID:** **OC-SB-480-6.0/8.0-XXX**

Lab Sample ID: 480-29976-5

Client Matrix: Solid

% Moisture: 6.8

Date Sampled: 12/11/2012 1010

Date Received: 12/11/2012 1715

**8260C Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 480-95715 | Instrument ID: | HP5973F |
| Prep Method: | 5035 | Prep Batch: | 480-95742 | Lab File ID: | F4308.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.48 g |
| Analysis Date: | 12/14/2012 0250 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 12/14/2012 0035 | | | | |

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

| Cas Number | Analyte | RT | Est. Result (ug/Kg) | Qualifier |
|---|---|---|---|---|
| 141-70-8 | Heptane, 2,2,6,6-tetramethyl-4-methylene | 10.03 | 19 | T J N |
| 1000144-64-7 | 4,4,6-Trimethyl-cyclohex-2-en-1-ol | 10.07 | 19 | T J N |
| 123-48-8 | 3-Heptene, 2,2,4,6,6-pentamethyl- | 10.11 | 28 | T J N |
| 123-48-8 | 3-Heptene, 2,2,4,6,6-pentamethyl- | 10.17 | 13 | T J N |
| 7756-94-7 | 1-Propene, 2-methyl-, trimer | 10.35 | 10 | T J N |
| 54411-1-7 | Cyclohexane, 1-methyl-2-pentyl- | 10.55 | 9.6 | T J N |
| 1000185-76-3 | 3-Methyl-4,7-dioxo-oct-2-enal | 11.50 | 14 | T J N |
| 15220-85-6 | 1-Propene, 2-methyl-, tetramer | 13.15 | 380 | T J N |
| 4390-4-9 | Nonane, 2,2,4,4,6,8,8-heptamethyl- | 13.29 | 210 | T J N |
| 4390-4-9 | Nonane, 2,2,4,4,6,8,8-heptamethyl- | 13.37 | 150 | T J N |

Client: Olin Corporation

Job Number: 480-29976-1

**Client Sample ID:** **OC-SB-484-5.5/7.5-XXX**

Lab Sample ID: 480-29976-6

Client Matrix: Solid

% Moisture: 12.3

Date Sampled: 12/11/2012 1040

Date Received: 12/11/2012 1715

**8260C Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 480-95715 | Instrument ID: | HP5973F |
| Prep Method: | 5035 | Prep Batch: | 480-95742 | Lab File ID: | F4309.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 6.6 g |
| Analysis Date: | 12/14/2012 0316 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 12/14/2012 0035 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| 2,4,4-Trimethyl-1-pentene | | 1.6 | J | 0.37 | 4.3 |
| 2,4,4-Trimethyl-2-pentene | | ND | | 0.46 | 4.3 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| Toluene-d8 (Surr) | 87 | | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 87 | | 70 - 130 |
| 4-Bromofluorobenzene (Surr) | 86 | | 70 - 130 |

Client: Olin Corporation

Job Number: 480-29976-1

**Client Sample ID:** **OC-SB-484-5.5/7.5-XXX**

Lab Sample ID: 480-29976-6

Client Matrix: Solid

% Moisture: 12.3

Date Sampled: 12/11/2012 1040

Date Received: 12/11/2012 1715

**8260C Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 480-95715 | Instrument ID: | HP5973F |
| Prep Method: | 5035 | Prep Batch: | 480-95742 | Lab File ID: | F4309.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 6.6 g |
| Analysis Date: | 12/14/2012 0316 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 12/14/2012 0035 | | | | |

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

| Cas Number | Analyte | RT | Est. Result (ug/Kg) | Qualifier |
|---|---|---|---|---|
| 141-70-8 | Heptane, 2,2,6,6-tetramethyl-4-methylene | 10.03 | 130 | T J N |
| 123-48-8 | 3-Heptene, 2,2,4,6,6-pentamethyl- | 10.12 | 210 | T J N |
| 110-44-1 | Sorbic Acid | 10.18 | 86 | T J N |
| 1000160-38-7 | Cyclooctane, tetradecyl- | 10.23 | 49 | T J N |
| 7756-94-7 | 1-Propene, 2-methyl-, trimer | 10.35 | 43 | T J N |
| 54411-1-7 | Cyclohexane, 1-methyl-2-pentyl- | 10.46 | 36 | T J N |
| 54411-2-8 | Cyclohexane, 1-methyl-3-pentyl- | 10.55 | 79 | T J N |
| 1000215-44-0 | Cis-1-methyl-3-n-nonylcyclohexane | 13.16 | 250 | T J N |
| 15220-85-6 | 1-Propene, 2-methyl-, tetramer | 13.29 | 180 | T J N |
| 1000145-59-3 | Cyclohexene, 1-(1,1-dimethylethoxy)-2-me | 13.37 | 160 | T J N |

Client: Olin Corporation

Job Number: 480-29976-1

**Client Sample ID:** **OC-SB-486-8.0/10-XXX**

Lab Sample ID: 480-29976-7

Client Matrix: Solid

% Moisture: 8.8

Date Sampled: 12/11/2012 1215

Date Received: 12/11/2012 1715

**8260C Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 480-95715 | Instrument ID: | HP5973F |
| Prep Method: | 5035 | Prep Batch: | 480-95742 | Lab File ID: | F4310.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.56 g |
| Analysis Date: | 12/14/2012 0341 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 12/14/2012 0035 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| 2,4,4-Trimethyl-1-pentene | | 700 | E | 0.42 | 4.9 |
| 2,4,4-Trimethyl-2-pentene | | 210 | E | 0.52 | 4.9 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| Toluene-d8 (Surr) | 91 | | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 91 | | 70 - 130 |
| 4-Bromofluorobenzene (Surr) | 86 | | 70 - 130 |

Client: Olin Corporation

Job Number: 480-29976-1

**Client Sample ID:** **OC-SB-486-8.0/10-XXX**

Lab Sample ID: 480-29976-7

Client Matrix: Solid

% Moisture: 8.8

Date Sampled: 12/11/2012 1215

Date Received: 12/11/2012 1715

**8260C Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 480-95715 | Instrument ID: | HP5973F |
| Prep Method: | 5035 | Prep Batch: | 480-95742 | Lab File ID: | F4310.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.56 g |
| Analysis Date: | 12/14/2012 0341 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 12/14/2012 0035 | | | | |

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

| Cas Number | Analyte | RT | Est. Result (ug/Kg) | Qualifier |
|---|---|---|---|---|
| 3404-80-6 | Hexane, 2-methyl-4-methylene- | 6.12 | 28 | T J N |
| 560-23-6 | 1-Pentene, 2,3,3-trimethyl- | 6.25 | 15 | T J N |
| 107-40-4 | 2-Pentene, 2,4,4-trimethyl- | 6.44 | 39 | T J N |
| 565-77-5 | 2-Pentene, 2,3,4-trimethyl- | 6.78 | 62 | T J N |
| 141-70-8 | Heptane, 2,2,6,6-tetramethyl-4-methylene | 10.03 | 34 | T J N |
| 123-48-8 | 3-Heptene, 2,2,4,6,6-pentamethyl- | 10.11 | 59 | T J N |
| 1795-1-3 | Thiophene, 3-ethyl- | 10.17 | 15 | T J N |
| 123-48-8 | 3-Heptene, 2,2,4,6,6-pentamethyl- | 13.15 | 360 | T J N |
| 15220-85-6 | 1-Propene, 2-methyl-, tetramer | 13.29 | 230 | T J N |
| 4390-4-9 | Nonane, 2,2,4,4,6,8,8-heptamethyl- | 13.37 | 160 | T J N |

Client: Olin Corporation

Job Number: 480-29976-1

**Client Sample ID:** **OC-SB-486-8.0/10-XXX**

Lab Sample ID: 480-29976-7

Client Matrix: Solid

% Moisture: 8.8

Date Sampled: 12/11/2012 1215

Date Received: 12/11/2012 1715

**8260C Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 480-96178 | Instrument ID: | HP5973C |
| Prep Method: | 5035 | Prep Batch: | 480-96180 | Lab File ID: | C25374.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 9.676 g |
| Analysis Date: | 12/17/2012 1508 | Run Type: | DL | Final Weight/Volume: | 10 mL |
| Prep Date: | 12/17/2012 1256 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| 2,4,4-Trimethyl-1-pentene | | 3700 | * | 24 | 280 |
| 2,4,4-Trimethyl-2-pentene | | 850 | * | 30 | 280 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| Toluene-d8 (Surr) | 88 | | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 86 | | 70 - 130 |
| 4-Bromofluorobenzene (Surr) | 82 | | 70 - 130 |

Client: Olin Corporation

Job Number: 480-29976-1

**Client Sample ID:** **OC-SB-486-8.0/10-XXX**

Lab Sample ID: 480-29976-7

Client Matrix: Solid

% Moisture: 8.8

Date Sampled: 12/11/2012 1215

Date Received: 12/11/2012 1715

**8260C Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 480-96178 | Instrument ID: | HP5973C |
| Prep Method: | 5035 | Prep Batch: | 480-96180 | Lab File ID: | C25374.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 9.676 g |
| Analysis Date: | 12/17/2012 1508 | Run Type: | DL | Final Weight/Volume: | 10 mL |
| Prep Date: | 12/17/2012 1256 | | | | |

**Tentatively Identified Compounds** **Number TIC's Found:** **9**

| Cas Number | Analyte | RT | Est. Result (ug/Kg) | Qualifier |
|---|---|---|---|---|
| 556-67-2 | Cyclotetrasiloxane, octamethyl- | 12.55 | 300 | T H J N |
| 141-70-8 | Heptane, 2,2,6,6-tetramethyl-4-methylene | 13.21 | 890 | T H J N |
| 123-48-8 | 3-Heptene, 2,2,4,6,6-pentamethyl- | 13.28 | 1300 | T H J N |
| 645-62-5 | 2-Hexenal, 2-ethyl- | 13.31 | 230 | T H J N |
| 54411-2-8 | Cyclohexane, 1-methyl-3-pentyl- | 13.71 | 490 | T H J N |
| 123-48-8 | 3-Heptene, 2,2,4,6,6-pentamethyl- | 13.89 | 210 | T H J N |
| 123-48-8 | 3-Heptene, 2,2,4,6,6-pentamethyl- | 17.65 | 3800 | T H J N |
| 4390-4-9 | Nonane, 2,2,4,4,6,8,8-heptamethyl- | 17.90 | 2400 | T H J N |
| 55170-80-4 | 1-Decene, 2,4-dimethyl- | 18.04 | 1900 | T H J N |

Client: Olin Corporation

Job Number: 480-29976-1

**Client Sample ID:** **OC-SB-491-6.0/8.0-XXX**

Lab Sample ID: 480-29976-8

Client Matrix: Solid

% Moisture: 4.5

Date Sampled: 12/11/2012 1300

Date Received: 12/11/2012 1715

**8260C Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 480-95715 | Instrument ID: | HP5973F |
| Prep Method: | 5035 | Prep Batch: | 480-95742 | Lab File ID: | F4311.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.32 g |
| Analysis Date: | 12/14/2012 0408 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 12/14/2012 0035 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| 2,4,4-Trimethyl-1-pentene | | ND | | 0.42 | 4.9 |
| 2,4,4-Trimethyl-2-pentene | | ND | | 0.52 | 4.9 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| Toluene-d8 (Surr) | 89 | | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 90 | | 70 - 130 |
| 4-Bromofluorobenzene (Surr) | 87 | | 70 - 130 |

Client: Olin Corporation

Job Number: 480-29976-1

**Client Sample ID:** **OC-SB-491-6.0/8.0-XXX**

Lab Sample ID: 480-29976-8

Client Matrix: Solid

% Moisture: 4.5

Date Sampled: 12/11/2012 1300

Date Received: 12/11/2012 1715

**8260C Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 480-95715 | Instrument ID: | HP5973F |
| Prep Method: | 5035 | Prep Batch: | 480-95742 | Lab File ID: | F4311.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.32 g |
| Analysis Date: | 12/14/2012 0408 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 12/14/2012 0035 | | | | |

**Tentatively Identified Compounds** **Number TIC's Found:** **4**

| Cas Number | Analyte | RT | Est. Result (ug/Kg) | Qualifier |
|---|---|---|---|---|
| 123-48-8 | 3-Heptene, 2,2,4,6,6-pentamethyl- | 10.11 | 6.1 | T J N |
| 15220-85-6 | 1-Propene, 2-methyl-, tetramer | 13.15 | 140 | T J N |
| 107-39-1 | 1-Pentene, 2,4,4-trimethyl- | 13.29 | 90 | T J N |
| 762-62-9 | 1-Pentene, 4,4-dimethyl- | 13.37 | 61 | T J N |

Client: Olin Corporation

Job Number: 480-29976-1

**Client Sample ID:** **OC-DUP-3**

Lab Sample ID: 480-29976-9

Client Matrix: Solid

% Moisture: 5.3

Date Sampled: 12/11/2012 0000

Date Received: 12/11/2012 1715

**8260C Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 480-95715 | Instrument ID: | HP5973F |
| Prep Method: | 5035 | Prep Batch: | 480-95742 | Lab File ID: | F4315.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.37 g |
| Analysis Date: | 12/14/2012 0549 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 12/14/2012 0035 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| 2,4,4-Trimethyl-1-pentene | | ND | | 0.42 | 4.9 |
| 2,4,4-Trimethyl-2-pentene | | ND | | 0.52 | 4.9 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| Toluene-d8 (Surr) | 90 | | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 92 | | 70 - 130 |
| 4-Bromofluorobenzene (Surr) | 87 | | 70 - 130 |

Client: Olin Corporation

Job Number: 480-29976-1

**Client Sample ID:** **OC-DUP-3**

Lab Sample ID: 480-29976-9

Client Matrix: Solid

% Moisture: 5.3

Date Sampled: 12/11/2012 0000

Date Received: 12/11/2012 1715

**8260C Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260C | Analysis Batch: | 480-95715 | Instrument ID: | HP5973F |
| Prep Method: | 5035 | Prep Batch: | 480-95742 | Lab File ID: | F4315.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.37 g |
| Analysis Date: | 12/14/2012 0549 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 12/14/2012 0035 | | | | |

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

| Cas Number | Analyte | RT | Est. Result (ug/Kg) | Qualifier |
|---|---|---|---|---|
| 15220-85-6 | 1-Propene, 2-methyl-, tetramer | 13.15 | 110 | T J N |
| 15220-85-6 | 1-Propene, 2-methyl-, tetramer | 13.29 | 64 | T J N |
| 5171-85-7 | 2,2,4,4,5,5,7,7-Octamethyloctane | 13.37 | 46 | T J N |

Client: Olin Corporation

Job Number: 480-29976-1

**Client Sample ID:** **OC-SB-504-0.0/1.0-XXX**

Lab Sample ID: 480-29976-1

Client Matrix: Solid

% Moisture: 27.2

Date Sampled: 12/11/2012 0805

Date Received: 12/11/2012 1715

**7199 Chromium, Hexavalent (IC)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 7199 | Analysis Batch: | 440-77008 | Instrument ID: | IC-16 |
| Prep Method: | 3060A | Prep Batch: | 440-77069 | Lab File ID: | Info |
| Dilution: | 10 | | | Initial Weight/Volume: | 1.25 g |
| Analysis Date: | 01/05/2013 0306 | | | Final Weight/Volume: | 50 mL |
| Prep Date: | 01/04/2013 1056 | | | Injection Volume: | 1 uL |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Cr (VI) | | 0.29 | | 0.21 | 0.27 |

Client: Olin Corporation

Job Number: 480-29976-1

**Client Sample ID:** **OC-SB-504-7.5/9.5-XXX**

Lab Sample ID: 480-29976-2

Client Matrix: Solid

% Moisture: 22.8

Date Sampled: 12/11/2012 0830

Date Received: 12/11/2012 1715

**7199 Chromium, Hexavalent (IC)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 7199 | Analysis Batch: | 440-77008 | Instrument ID: | IC-16 |
| Prep Method: | 3060A | Prep Batch: | 440-77069 | Lab File ID: | Info |
| Dilution: | 10 | | | Initial Weight/Volume: | 1.24 g |
| Analysis Date: | 01/05/2013 0318 | | | Final Weight/Volume: | 50 mL |
| Prep Date: | 01/04/2013 1056 | | | Injection Volume: | 1 uL |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Cr (VI) | | ND | | 0.20 | 0.26 |

Client: Olin Corporation

Job Number: 480-29976-1

**Client Sample ID:** **OC-SB-505-0.0/1.0-XXX**

Lab Sample ID: 480-29976-3

Client Matrix: Solid

% Moisture: 4.8

Date Sampled: 12/11/2012 0925

Date Received: 12/11/2012 1715

**7199 Chromium, Hexavalent (IC)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 7199 | Analysis Batch: | 440-77008 | Instrument ID: | IC-16 |
| Prep Method: | 3060A | Prep Batch: | 440-77069 | Lab File ID: | Info |
| Dilution: | 10 | | | Initial Weight/Volume: | 1.25 g |
| Analysis Date: | 01/05/2013 0409 | | | Final Weight/Volume: | 50 mL |
| Prep Date: | 01/04/2013 1056 | | | Injection Volume: | 1 uL |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Cr (VI) | | 0.34 | | 0.16 | 0.21 |

Client: Olin Corporation

Job Number: 480-29976-1

**Client Sample ID:** **OC-SB-505-5.0/7.0-XXX**

Lab Sample ID: 480-29976-4

Client Matrix: Solid

% Moisture: 27.2

Date Sampled: 12/11/2012 0945

Date Received: 12/11/2012 1715

**7199 Chromium, Hexavalent (IC)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 7199 | Analysis Batch: | 440-77008 | Instrument ID: | IC-16 |
| Prep Method: | 3060A | Prep Batch: | 440-77069 | Lab File ID: | Info |
| Dilution: | 10 | | | Initial Weight/Volume: | 1.25 g |
| Analysis Date: | 01/05/2013 0422 | | | Final Weight/Volume: | 50 mL |
| Prep Date: | 01/04/2013 1056 | | | Injection Volume: | 1 uL |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Cr (VI) | | 0.58 | | 0.21 | 0.27 |

Client: Olin Corporation

Job Number: 480-29976-1

**Client Sample ID:** **OC-SB-508-0.0/1.0-XXX**

Lab Sample ID: 480-29976-10

Client Matrix: Solid

% Moisture: 33.0

Date Sampled: 12/11/2012 1325

Date Received: 12/11/2012 1715

**7199 Chromium, Hexavalent (IC)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 7199 | Analysis Batch: | 440-77008 | Instrument ID: | IC-16 |
| Prep Method: | 3060A | Prep Batch: | 440-77069 | Lab File ID: | Info |
| Dilution: | 100 | | | Initial Weight/Volume: | 1.25 g |
| Analysis Date: | 01/05/2013 0434 | | | Final Weight/Volume: | 50 mL |
| Prep Date: | 01/04/2013 1056 | | | Injection Volume: | 1 uL |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Cr (VI) | | ND | | 2.2 | 3.0 |

Client: Olin Corporation

Job Number: 480-29976-1

**Client Sample ID:** **OC-SB-508-8.0/10-XXX**

Lab Sample ID: 480-29976-11

Client Matrix: Solid

% Moisture: 19.4

Date Sampled: 12/11/2012 1340

Date Received: 12/11/2012 1715

**7199 Chromium, Hexavalent (IC)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 7199 | Analysis Batch: | 440-77008 | Instrument ID: | IC-16 |
| Prep Method: | 3060A | Prep Batch: | 440-77069 | Lab File ID: | Info |
| Dilution: | 10 | | | Initial Weight/Volume: | 1.26 g |
| Analysis Date: | 01/05/2013 0512 | | | Final Weight/Volume: | 50 mL |
| Prep Date: | 01/04/2013 1056 | | | Injection Volume: | 1 uL |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Cr (VI) | | 1.1 | | 0.18 | 0.25 |

Client: Olin Corporation

Job Number: 480-29976-1

**Client Sample ID:** **OC-SB-508-12/14-XXX**

Lab Sample ID: 480-29976-12

Client Matrix: Solid

% Moisture: 18.0

Date Sampled: 12/11/2012 1350

Date Received: 12/11/2012 1715

**7199 Chromium, Hexavalent (IC)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 7199 | Analysis Batch: | 440-77008 | Instrument ID: | IC-16 |
| Prep Method: | 3060A | Prep Batch: | 440-77069 | Lab File ID: | Info |
| Dilution: | 10 | | | Initial Weight/Volume: | 1.26 g |
| Analysis Date: | 01/05/2013 0525 | | | Final Weight/Volume: | 50 mL |
| Prep Date: | 01/04/2013 1056 | | | Injection Volume: | 1 uL |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Cr (VI) | | 0.26 | | 0.18 | 0.24 |

**General Chemistry**

**Client Sample ID:** **OC-SB-504-0.0/1.0-XXX**

Lab Sample ID: 480-29976-1

Client Matrix: Solid

Date Sampled: 12/11/2012 0805

Date Received: 12/11/2012 1715

| Analyte | Result | Qual | Units | RL | RL | Dil | Method |
|---|---|---|---|---|---|---|---|
| pH-Soluble | 7.18 | | SU | 1.00 | 1.00 | 1.0 | 9045C |
| Analysis Batch: 360-97379 | Analysis Date: 12/12/2012 0803 | | | | | | DryWt Corrected: N |
| Percent Moisture | 27 | | % | 1.0 | 1.0 | 1.0 | Moisture |
| Analysis Batch: 460-140158 | Analysis Date: 12/17/2012 1226 | | | | | | DryWt Corrected: N |
| Percent Solids | 73 | | % | 1.0 | 1.0 | 1.0 | Moisture |
| Analysis Batch: 460-140158 | Analysis Date: 12/17/2012 1226 | | | | | | DryWt Corrected: N |
| Oxidation Reduction Potential-Soluble | 36 | | millivolts | 0.010 | 0.010 | 1.0 | SM 2580B |
| Analysis Batch: 360-97380 | Analysis Date: 12/12/2012 0803 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **OC-SB-504-7.5/9.5-XXX**

Lab Sample ID: 480-29976-2

Client Matrix: Solid

Date Sampled: 12/11/2012 0830

Date Received: 12/11/2012 1715

| Analyte | Result | Qual | Units | RL | RL | Dil | Method |
|---|---|---|---|---|---|---|---|
| pH-Soluble | 7.11 | | SU | 1.00 | 1.00 | 1.0 | 9045C |
| Analysis Batch: 360-97379 | Analysis Date: 12/12/2012 0809 | | | | | | DryWt Corrected: N |
| Percent Moisture | 23 | | % | 1.0 | 1.0 | 1.0 | Moisture |
| Analysis Batch: 460-140158 | Analysis Date: 12/17/2012 1226 | | | | | | DryWt Corrected: N |
| Percent Solids | 77 | | % | 1.0 | 1.0 | 1.0 | Moisture |
| Analysis Batch: 460-140158 | Analysis Date: 12/17/2012 1226 | | | | | | DryWt Corrected: N |
| Oxidation Reduction Potential-Soluble | 26 | | millivolts | 0.010 | 0.010 | 1.0 | SM 2580B |
| Analysis Batch: 360-97380 | Analysis Date: 12/12/2012 0809 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **OC-SB-505-0.0/1.0-XXX**

Lab Sample ID: 480-29976-3

Client Matrix: Solid

Date Sampled: 12/11/2012 0925

Date Received: 12/11/2012 1715

| Analyte | Result | Qual | Units | RL | RL | Dil | Method |
|---|---|---|---|---|---|---|---|
| pH-Soluble | 4.99 | | SU | 1.00 | 1.00 | 1.0 | 9045C |
| Analysis Batch: 360-97379 | Analysis Date: 12/12/2012 0813 | | | | | | DryWt Corrected: N |
| Percent Moisture | 4.8 | | % | 1.0 | 1.0 | 1.0 | Moisture |
| Analysis Batch: 460-140158 | Analysis Date: 12/17/2012 1226 | | | | | | DryWt Corrected: N |
| Percent Solids | 95 | | % | 1.0 | 1.0 | 1.0 | Moisture |
| Analysis Batch: 460-140158 | Analysis Date: 12/17/2012 1226 | | | | | | DryWt Corrected: N |
| Oxidation Reduction Potential-Soluble | 49 | | millivolts | 0.010 | 0.010 | 1.0 | SM 2580B |
| Analysis Batch: 360-97380 | Analysis Date: 12/12/2012 0813 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **OC-SB-505-5.0/7.0-XXX**

Lab Sample ID: 480-29976-4

Client Matrix: Solid

Date Sampled: 12/11/2012 0945

Date Received: 12/11/2012 1715

| Analyte | Result | Qual | Units | RL | RL | Dil | Method |
|---|---|---|---|---|---|---|---|
| pH-Soluble | 6.54 | | SU | 1.00 | 1.00 | 1.0 | 9045C |
| Analysis Batch: 360-97379 | Analysis Date: 12/12/2012 0817 | | | | | | DryWt Corrected: N |
| Percent Moisture | 27 | | % | 1.0 | 1.0 | 1.0 | Moisture |
| Analysis Batch: 460-140158 | Analysis Date: 12/17/2012 1226 | | | | | | DryWt Corrected: N |
| Percent Solids | 73 | | % | 1.0 | 1.0 | 1.0 | Moisture |
| Analysis Batch: 460-140158 | Analysis Date: 12/17/2012 1226 | | | | | | DryWt Corrected: N |
| Oxidation Reduction Potential-Soluble | 19 | | millivolts | 0.010 | 0.010 | 1.0 | SM 2580B |
| Analysis Batch: 360-97380 | Analysis Date: 12/12/2012 0817 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **OC-SB-480-6.0/8.0-XXX**

Lab Sample ID: 480-29976-5

Client Matrix: Solid

Date Sampled: 12/11/2012 1010

Date Received: 12/11/2012 1715

| Analyte | Result | Qual | Units | RL | RL | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 6.8 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 480-95496 | Analysis Date: 12/12/2012 1849 | | | | | | DryWt Corrected: N |
| Percent Solids | 93 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 480-95496 | Analysis Date: 12/12/2012 1849 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **OC-SB-484-5.5/7.5-XXX**

Lab Sample ID: 480-29976-6

Client Matrix: Solid

Date Sampled: 12/11/2012 1040

Date Received: 12/11/2012 1715

| Analyte | Result | Qual | Units | RL | RL | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 12 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 480-95496 | Analysis Date: 12/12/2012 1849 | | | | | | DryWt Corrected: N |
| Percent Solids | 88 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 480-95496 | Analysis Date: 12/12/2012 1849 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **OC-SB-486-8.0/10-XXX**

Lab Sample ID: 480-29976-7

Client Matrix: Solid

Date Sampled: 12/11/2012 1215

Date Received: 12/11/2012 1715

| Analyte | Result | Qual | Units | RL | RL | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 8.8 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 480-95496 | Analysis Date: 12/12/2012 1849 | | | | | | DryWt Corrected: N |
| Percent Solids | 91 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 480-95496 | Analysis Date: 12/12/2012 1849 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **OC-SB-491-6.0/8.0-XXX**

Lab Sample ID: 480-29976-8

Client Matrix: Solid

Date Sampled: 12/11/2012 1300

Date Received: 12/11/2012 1715

| Analyte | Result | Qual | Units | RL | RL | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 4.5 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 480-95496 | Analysis Date: 12/12/2012 1849 | | | | | | DryWt Corrected: N |
| Percent Solids | 96 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 480-95496 | Analysis Date: 12/12/2012 1849 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **OC-DUP-3**

Lab Sample ID: 480-29976-9

Client Matrix: Solid

Date Sampled: 12/11/2012 0000

Date Received: 12/11/2012 1715

| Analyte | Result | Qual | Units | RL | RL | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 5.3 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 480-95496 | Analysis Date: 12/12/2012 1849 | | | | | | DryWt Corrected: N |
| Percent Solids | 95 | | % | 0.10 | 0.10 | 1.0 | Moisture |
| Analysis Batch: 480-95496 | Analysis Date: 12/12/2012 1849 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **OC-SB-508-0.0/1.0-XXX**

Lab Sample ID: 480-29976-10

Client Matrix: Solid

Date Sampled: 12/11/2012 1325

Date Received: 12/11/2012 1715

| Analyte | Result | Qual | Units | RL | RL | Dil | Method |
|---|---|---|---|---|---|---|---|
| pH-Soluble | 5.51 | | SU | 1.00 | 1.00 | 1.0 | 9045C |
| Analysis Batch: 360-97379 | Analysis Date: 12/12/2012 0822 | | | | | | DryWt Corrected: N |
| Percent Moisture | 33 | | % | 1.0 | 1.0 | 1.0 | Moisture |
| Analysis Batch: 460-140158 | Analysis Date: 12/17/2012 1226 | | | | | | DryWt Corrected: N |
| Percent Solids | 67 | | % | 1.0 | 1.0 | 1.0 | Moisture |
| Analysis Batch: 460-140158 | Analysis Date: 12/17/2012 1226 | | | | | | DryWt Corrected: N |
| Oxidation Reduction Potential-Soluble | 30 | | millivolts | 0.010 | 0.010 | 1.0 | SM 2580B |
| Analysis Batch: 360-97380 | Analysis Date: 12/12/2012 0822 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **OC-SB-508-8.0/10-XXX**

Lab Sample ID: 480-29976-11

Client Matrix: Solid

Date Sampled: 12/11/2012 1340

Date Received: 12/11/2012 1715

| Analyte | Result | Qual | Units | RL | RL | Dil | Method |
|---|---|---|---|---|---|---|---|
| pH-Soluble | 5.69 | | SU | 1.00 | 1.00 | 1.0 | 9045C |
| Analysis Batch: 360-97379 | Analysis Date: 12/12/2012 0832 | | | | | | DryWt Corrected: N |
| Percent Moisture | 19 | | % | 1.0 | 1.0 | 1.0 | Moisture |
| Analysis Batch: 460-140158 | Analysis Date: 12/17/2012 1226 | | | | | | DryWt Corrected: N |
| Percent Solids | 81 | | % | 1.0 | 1.0 | 1.0 | Moisture |
| Analysis Batch: 460-140158 | Analysis Date: 12/17/2012 1226 | | | | | | DryWt Corrected: N |
| Oxidation Reduction Potential-Soluble | 19 | | millivolts | 0.010 | 0.010 | 1.0 | SM 2580B |
| Analysis Batch: 360-97380 | Analysis Date: 12/12/2012 0832 | | | | | | DryWt Corrected: N |

**General Chemistry**

**Client Sample ID:** **OC-SB-508-12/14-XXX**

Lab Sample ID: 480-29976-12

Client Matrix: Solid

Date Sampled: 12/11/2012 1350

Date Received: 12/11/2012 1715

| Analyte | Result | Qual | Units | RL | RL | Dil | Method |
|---|---|---|---|---|---|---|---|
| pH-Soluble | 7.44 | | SU | 1.00 | 1.00 | 1.0 | 9045C |
| Analysis Batch: 360-97379 | Analysis Date: 12/12/2012 0836 | | | | | | DryWt Corrected: N |
| Percent Moisture | 18 | | % | 1.0 | 1.0 | 1.0 | Moisture |
| Analysis Batch: 460-140158 | Analysis Date: 12/17/2012 1226 | | | | | | DryWt Corrected: N |
| Percent Solids | 82 | | % | 1.0 | 1.0 | 1.0 | Moisture |
| Analysis Batch: 460-140158 | Analysis Date: 12/17/2012 1226 | | | | | | DryWt Corrected: N |
| Oxidation Reduction Potential-Soluble | 13 | | millivolts | 0.010 | 0.010 | 1.0 | SM 2580B |
| Analysis Batch: 360-97380 | Analysis Date: 12/12/2012 0836 | | | | | | DryWt Corrected: N |

Client: Olin Corporation

Job Number: 480-29976-1

## Surrogate Recovery Report

**8260C Volatile Organic Compounds (GC/MS)**

**Client Matrix: Solid**

| Lab Sample ID | Client Sample ID | DCA %Rec | TOL %Rec | BFB %Rec |
|---|---|---|---|---|
| 480-29976-5 | OC-SB-480-6.0/8.0-XXX | 86 | 85 | 83 |
| 480-29976-6 | OC-SB-484-5.5/7.5-XXX | 87 | 87 | 86 |
| 480-29976-7 | OC-SB-486-8.0/10-XXX | 91 | 91 | 86 |
| 480-29976-8 | OC-SB-491-6.0/8.0-XXX | 90 | 89 | 87 |
| 480-29976-9 | OC-DUP-3 | 92 | 90 | 87 |
| MB 480-95715/8 | | 86 | 93 | 87 |
| LCS 480-95715/5 | | 88 | 92 | 89 |
| LCSD 480-95715/6 | | 86 | 88 | 85 |
| 480-29976-8 MS | OC-SB-491-6.0/8.0-XXX MS | 81 | 88 | 84 |
| 480-29976-8 MSD | OC-SB-491-6.0/8.0-XXX MSD | 80 | 87 | 83 |

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

Client: Olin Corporation

Job Number: 480-29976-1

## Surrogate Recovery Report

**8260C Volatile Organic Compounds (GC/MS)**

**Client Matrix: Solid**

| Lab Sample ID | Client Sample ID | DCA %Rec | TOL %Rec | BFB %Rec |
|---|---|---|---|---|
| 480-29976-7 DL | OC-SB-486-8.0/10-XX X DL | 86 | 88 | 82 |
| MB 480-96180/2-A | | 86 | 86 | 81 |
| LCS 480-96180/1-A | | 92 | 89 | 87 |
| LCSD 480-96180/22-A | | 89 | 87 | 83 |

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

Client: Olin Corporation

Job Number: 480-29976-1

**Method Blank - Batch: 480-95715**

**Method: 8260C**
**Preparation: N/A**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | MB 480-95715/8 | Analysis Batch: | 480-95715 | Instrument ID: | HP5973F |
| Client Matrix: | Solid | Prep Batch: | N/A | Lab File ID: | F4304.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 5 g |
| Analysis Date: | 12/14/2012 0025 | Units: | ug/Kg | Final Weight/Volume: | 5 mL |
| Prep Date: | N/A | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| 2,4,4-Trimethyl-1-pentene | ND | | 0.43 | 5.0 |
| 2,4,4-Trimethyl-2-pentene | ND | | 0.53 | 5.0 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| Toluene-d8 (Surr) | 93 | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 86 | 70 - 130 |
| 4-Bromofluorobenzene (Surr) | 87 | 70 - 130 |

**Method Blank TICs- Batch: 480-95715**

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

**Lab Control Sample/**
**Lab Control Sample Duplicate Recovery Report - Batch: 480-95715**

**Method: 8260C**
**Preparation: N/A**

| | | | | | |
|---|---|---|---|---|---|
| LCS Lab Sample ID: | LCS 480-95715/5 | Analysis Batch: | 480-95715 | Instrument ID: | HP5973F |
| Client Matrix: | Solid | Prep Batch: | N/A | Lab File ID: | F4301.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 5 g |
| Analysis Date: | 12/13/2012 2308 | Units: | ug/Kg | Final Weight/Volume: | 5 mL |
| Prep Date: | N/A | | | | |
| Leach Date: | N/A | | | | |

| | | | | | |
|---|---|---|---|---|---|
| LCSD Lab Sample ID: | LCSD 480-95715/6 | Analysis Batch: | 480-95715 | Instrument ID: | HP5973F |
| Client Matrix: | Solid | Prep Batch: | N/A | Lab File ID: | F4302.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 5 g |
| Analysis Date: | 12/13/2012 2334 | Units: | ug/Kg | Final Weight/Volume: | 5 mL |
| Prep Date: | N/A | | | | |
| Leach Date: | N/A | | | | |

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | LCS | LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
| 2,4,4-Trimethyl-1-pentene | 124 | 122 | 70 - 130 | 2 | 20 | | |
| 2,4,4-Trimethyl-2-pentene | 113 | 107 | 70 - 130 | 6 | 20 | | |

| Surrogate | LCS % Rec | LCSD % Rec | Acceptance Limits |
|---|---|---|---|
| Toluene-d8 (Surr) | 92 | 88 | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 88 | 86 | 70 - 130 |
| 4-Bromofluorobenzene (Surr) | 89 | 85 | 70 - 130 |

Client: Olin Corporation

Job Number: 480-29976-1

**Laboratory Control/**
**Laboratory Duplicate Data Report - Batch: 480-95715**

**Method: 8260C**
**Preparation: N/A**

| | | | | | |
|---|---|---|---|---|---|
| LCS Lab Sample ID: | LCS 480-95715/5 | Units: | ug/Kg | LCSD Lab Sample ID: | LCSD 480-95715/6 |
| Client Matrix: | Solid | | | Client Matrix: | Solid |
| Dilution: | 1.0 | | | Dilution: | 1.0 |
| Analysis Date: | 12/13/2012 2308 | | | Analysis Date: | 12/13/2012 2334 |
| Prep Date: | N/A | | | Prep Date: | N/A |
| Leach Date: | N/A | | | Leach Date: | N/A |

| Analyte | LCS Spike Amount | LCSD Spike Amount | LCS Result/Qual | LCSD Result/Qual |
|---|---|---|---|---|
| 2,4,4-Trimethyl-1-pentene | 50.0 | 50.0 | 62.2 | 60.8 |
| 2,4,4-Trimethyl-2-pentene | 50.0 | 50.0 | 56.5 | 53.4 |

Client: Olin Corporation

Job Number: 480-29976-1

**Matrix Spike/**
**Matrix Spike Duplicate Recovery Report - Batch: 480-95742**

**Method: 8260C**
**Preparation: 5035**

| | | | | | |
|---|---|---|---|---|---|
| MS Lab Sample ID: | 480-29976-8 | Analysis Batch: | 480-95715 | Instrument ID: | HP5973F |
| Client Matrix: | Solid | Prep Batch: | 480-95742 | Lab File ID: | F4312.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 4.71 g |
| Analysis Date: | 12/14/2012 0433 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 12/14/2012 0035 | | | | |
| Leach Date: | N/A | | | | |

| | | | | | |
|---|---|---|---|---|---|
| MSD Lab Sample ID: | 480-29976-8 | Analysis Batch: | 480-95715 | Instrument ID: | HP5973F |
| Client Matrix: | Solid | Prep Batch: | 480-95742 | Lab File ID: | F4313.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 4.84 g |
| Analysis Date: | 12/14/2012 0458 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 12/14/2012 0035 | | | | |
| Leach Date: | N/A | | | | |

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | MS | MSD | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
| 2,4,4-Trimethyl-1-pentene | 103 | 98 | 70 - 130 | 8 | 30 | | |
| 2,4,4-Trimethyl-2-pentene | 109 | 97 | 70 - 130 | 15 | 30 | | |

| Surrogate | MS % Rec | MSD % Rec | Acceptance Limits |
|---|---|---|---|
| Toluene-d8 (Surr) | 88 | 87 | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 81 | 80 | 70 - 130 |
| 4-Bromofluorobenzene (Surr) | 84 | 83 | 70 - 130 |

**Matrix Spike/**
**Matrix Spike Duplicate Recovery Report - Batch: 480-95742**

**Method: 8260C**
**Preparation: 5035**

| | | | | | |
|---|---|---|---|---|---|
| MS Lab Sample ID: | 480-29976-8 | Units: | ug/Kg | MSD Lab Sample ID: | 480-29976-8 |
| Client Matrix: | Solid | | | Client Matrix: | Solid |
| Dilution: | 1.0 | | | Dilution: | 1.0 |
| Analysis Date: | 12/14/2012 0433 | | | Analysis Date: | 12/14/2012 0458 |
| Prep Date: | 12/14/2012 0035 | | | Prep Date: | 12/14/2012 0035 |
| Leach Date: | N/A | | | Leach Date: | N/A |

| Analyte | Sample Result/Qual | MS Spike Amount | MSD Spike Amount | MS Result/Qual | MSD Result/Qual |
|---|---|---|---|---|---|
| 2,4,4-Trimethyl-1-pentene | ND | 55.6 | 54.1 | 57.3 | 52.7 |
| 2,4,4-Trimethyl-2-pentene | ND | 55.6 | 54.1 | 60.7 | 52.3 |

Client: Olin Corporation

Job Number: 480-29976-1

**Method Blank - Batch: 480-96180**

**Method: 8260C**
**Preparation: 5035**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | MB 480-96180/2-A | Analysis Batch: | 480-96178 | Instrument ID: | HP5973C |
| Client Matrix: | Solid | Prep Batch: | 480-96180 | Lab File ID: | C25373.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 5.16 g |
| Analysis Date: | 12/17/2012 1431 | Units: | ug/Kg | Final Weight/Volume: | 10 mL |
| Prep Date: | 12/17/2012 1256 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| 2,4,4-Trimethyl-1-pentene | ND | | 42 | 480 |
| 2,4,4-Trimethyl-2-pentene | ND | | 51 | 480 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| Toluene-d8 (Surr) | 86 | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 86 | 70 - 130 |
| 4-Bromofluorobenzene (Surr) | 81 | 70 - 130 |

**Method Blank TICs- Batch: 480-96180**

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

**Lab Control Sample/**
**Lab Control Sample Duplicate Recovery Report - Batch: 480-96180**

**Method: 8260C**
**Preparation: 5035**

| | | | | | |
|---|---|---|---|---|---|
| LCS Lab Sample ID: | LCS 480-96180/1-A | Analysis Batch: | 480-96178 | Instrument ID: | HP5973C |
| Client Matrix: | Solid | Prep Batch: | 480-96180 | Lab File ID: | C25370.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 5 g |
| Analysis Date: | 12/17/2012 1315 | Units: | ug/Kg | Final Weight/Volume: | 10 mL |
| Prep Date: | 12/17/2012 1256 | | | | |
| Leach Date: | N/A | | | | |

| | | | | | |
|---|---|---|---|---|---|
| LCSD Lab Sample ID: | LCSD 480-96180/22-A | Analysis Batch: | 480-96178 | Instrument ID: | HP5973C |
| Client Matrix: | Solid | Prep Batch: | 480-96180 | Lab File ID: | C25371.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 5.33 g |
| Analysis Date: | 12/17/2012 1340 | Units: | ug/Kg | Final Weight/Volume: | 10 mL |
| Prep Date: | 12/17/2012 1304 | | | | |
| Leach Date: | N/A | | | | |

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | LCS | LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
| 2,4,4-Trimethyl-1-pentene | 100 | 86 | 70 - 130 | 22 | 20 | | * |
| 2,4,4-Trimethyl-2-pentene | 138 | 129 | 70 - 130 | 13 | 20 | * | |

| Surrogate | LCS % Rec | LCSD % Rec | Acceptance Limits |
|---|---|---|---|
| Toluene-d8 (Surr) | 89 | 87 | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 92 | 89 | 70 - 130 |
| 4-Bromofluorobenzene (Surr) | 87 | 83 | 70 - 130 |

Client: Olin Corporation

Job Number: 480-29976-1

**Laboratory Control/**
**Laboratory Duplicate Data Report - Batch: 480-96180**

**Method: 8260C**
**Preparation: 5035**

| | | | | | |
|---|---|---|---|---|---|
| LCS Lab Sample ID: | LCS 480-96180/1-A | Units: | ug/Kg | LCSD Lab Sample ID: | LCSD 480-96180/22-A |
| Client Matrix: | Solid | | | Client Matrix: | Solid |
| Dilution: | 1.0 | | | Dilution: | 1.0 |
| Analysis Date: | 12/17/2012 1315 | | | Analysis Date: | 12/17/2012 1340 |
| Prep Date: | 12/17/2012 1256 | | | Prep Date: | 12/17/2012 1304 |
| Leach Date: | N/A | | | Leach Date: | N/A |

| Analyte | LCS Spike Amount | LCSD Spike Amount | LCS Result/Qual | | LCSD Result/Qual | |
|---|---|---|---|---|---|---|
| 2,4,4-Trimethyl-1-pentene | 2500 | 2350 | 2500 | | 2010 | * |
| 2,4,4-Trimethyl-2-pentene | 2500 | 2350 | 3460 | * | 3040 | |

Client: Olin Corporation

Job Number: 480-29976-1

**Method Blank - Batch: 440-77069**

**Method: 7199**
**Preparation: 3060A**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | MB 440-77069/1-A | Analysis Batch: | 440-77008 | Instrument ID: | IC-16 |
| Client Matrix: | Solid | Prep Batch: | 440-77069 | Lab File ID: | Info 2_TAIIRV167_Hex |
| Dilution: | 10 | Leach Batch: | N/A | Initial Weight/Volume: | 1.25 g |
| Analysis Date: | 01/05/2013 0240 | Units: | mg/Kg | Final Weight/Volume: | 50 mL |
| Prep Date: | 01/04/2013 1056 | | | Injection Volume: | 1 uL |
| Leach Date: | N/A | | | | |

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

**Lab Control Sample - Batch: 440-77069**

**Method: 7199**
**Preparation: 3060A**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | LCS 440-77069/2-A | Analysis Batch: | 440-77008 | Instrument ID: | IC-16 |
| Client Matrix: | Solid | Prep Batch: | 440-77069 | Lab File ID: | Info 2_TAIIRV167_Hex |
| Dilution: | 10 | Leach Batch: | N/A | Initial Weight/Volume: | 1.25 g |
| Analysis Date: | 01/05/2013 0253 | Units: | mg/Kg | Final Weight/Volume: | 50 mL |
| Prep Date: | 01/04/2013 1056 | | | Injection Volume: | 1 uL |
| Leach Date: | N/A | | | | |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Cr (VI) | 16.0 | 12.6 | 79 | 65 - 110 | |

**Matrix Spike Insoluble - Batch: 440-77069**

**Method: 7199**
**Preparation: 3060A**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 480-29976-2 | Analysis Batch: | 440-77008 | Instrument ID: | IC-16 |
| Client Matrix: | Solid | Prep Batch: | 440-77069 | Lab File ID: | Info 2_TAIIRV167_Hex |
| Dilution: | 1000 | Leach Batch: | N/A | Initial Weight/Volume: | 1.25 g |
| Analysis Date: | 01/05/2013 0912 | Units: | mg/Kg | Final Weight/Volume: | 50 mL |
| Prep Date: | 01/04/2013 1056 | | | Injection Volume: | 1 uL |
| Leach Date: | N/A | | | | |

| Analyte | Sample Result/Qual | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|---|
| Cr (VI) | ND | 2430 | 1730 | 71 | 55 - 110 | |

Client: Olin Corporation

Job Number: 480-29976-1

**Matrix Spike/**
**Matrix Spike Duplicate Recovery Report - Batch: 440-77069**

**Method: 7199**
**Preparation: 3060A**

| | | | | | |
|---|---|---|---|---|---|
| MS Lab Sample ID: | 480-29976-2 | Analysis Batch: | 440-77008 | Instrument ID: | IC-16 |
| Client Matrix: | Solid | Prep Batch: | 440-77069 | Lab File ID: | Info 2_TAIIRV167_Hex |
| Dilution: | 10 | Leach Batch: | N/A | Initial Weight/Volume: | 1.26 g |
| Analysis Date: | 01/05/2013 0331 | | | Final Weight/Volume: | 50 mL |
| Prep Date: | 01/04/2013 1056 | | | Injection Volume: | 1 uL |
| Leach Date: | N/A | | | | |

| | | | | | |
|---|---|---|---|---|---|
| MSD Lab Sample ID: | 480-29976-2 | Analysis Batch: | 440-77008 | Instrument ID: | IC-16 |
| Client Matrix: | Solid | Prep Batch: | 440-77069 | Lab File ID: | Info 2_TAIIRV167_Hex |
| Dilution: | 10 | Leach Batch: | N/A | Initial Weight/Volume: | 1.24 g |
| Analysis Date: | 01/05/2013 0344 | | | Final Weight/Volume: | 50 mL |
| Prep Date: | 01/04/2013 1056 | | | Injection Volume: | 1 uL |
| Leach Date: | N/A | | | | |

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | MS | MSD | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
| Cr (VI) | 76 | 74 | 55 - 110 | 1 | 20 | | |

**Matrix Spike/**
**Matrix Spike Duplicate Recovery Report - Batch: 440-77069**

**Method: 7199**
**Preparation: 3060A**

| | | | | | |
|---|---|---|---|---|---|
| MS Lab Sample ID: | 480-29976-2 | Units: | mg/Kg | MSD Lab Sample ID: | 480-29976-2 |
| Client Matrix: | Solid | | | Client Matrix: | Solid |
| Dilution: | 10 | | | Dilution: | 10 |
| Analysis Date: | 01/05/2013 0331 | | | Analysis Date: | 01/05/2013 0344 |
| Prep Date: | 01/04/2013 1056 | | | Prep Date: | 01/04/2013 1056 |
| Leach Date: | N/A | | | Leach Date: | N/A |

| Analyte | Sample Result/Qual | MS Spike Amount | MSD Spike Amount | MS Result/Qual | MSD Result/Qual |
|---|---|---|---|---|---|
| Cr (VI) | ND | 20.6 | 20.9 | 15.6 | 15.5 |

Client: Olin Corporation

Job Number: 480-29976-1

**Lab Control Sample - Batch: 360-97379**

**Method: 9045C**
**Preparation: N/A**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | LCS 360-97377/1-A | Analysis Batch: | 360-97379 | Instrument ID: | pH meter |
| Client Matrix: | Solid | Prep Batch: | N/A | Lab File ID: | N/A |
| Dilution: | 1.0 | Leach Batch: | 360-97377 | Initial Weight/Volume: | |
| Analysis Date: | 12/12/2012 0728 | Units: | SU | Final Weight/Volume: | |
| Prep Date: | N/A | | | | |
| Leach Date: | 12/12/2012 0650 | | | | |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| pH-Soluble | 6.00 | 5.940 | 99 | 90 - 110 | |

**Duplicate - Batch: 360-97379**

**Method: 9045C**
**Preparation: N/A**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 480-29976-12 | Analysis Batch: | 360-97379 | Instrument ID: | pH meter |
| Client Matrix: | Solid | Prep Batch: | N/A | Lab File ID: | N/A |
| Dilution: | 1.0 | Leach Batch: | 360-97377 | Initial Weight/Volume: | |
| Analysis Date: | 12/12/2012 0840 | Units: | SU | Final Weight/Volume: | |
| Prep Date: | N/A | | | | |
| Leach Date: | 12/12/2012 0650 | | | | |

| Analyte | Sample Result/Qual | Result | RPD | Limit | Qual |
|---|---|---|---|---|---|
| pH-Soluble | 7.44 | 7.240 | 3 | 10.0 | |

Client: Olin Corporation

Job Number: 480-29976-1

**Duplicate - Batch: 460-140158**

**Method: Moisture**
**Preparation: N/A**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 480-29976-12 | Analysis Batch: | 460-140158 | 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: | 12/17/2012 1226 | Units: | % | Final Weight/Volume: | |
| Prep Date: | N/A | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Sample Result/Qual | Result | RPD | Limit | Qual |
|---|---|---|---|---|---|
| Percent Moisture | 18 | 16 | 13 | 20 | |
| Percent Solids | 82 | 84 | 3 | 20 | |

Client: Olin Corporation

Job Number: 480-29976-1

**Lab Control Sample - Batch: 360-97380**

**Method: SM 2580B**
**Preparation: N/A**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | LCS 360-97378/1-A | Analysis Batch: | 360-97380 | Instrument ID: | No Equipment |
| Client Matrix: | Solid | Prep Batch: | N/A | Lab File ID: | N/A |
| Dilution: | 1.0 | Leach Batch: | 360-97378 | Initial Weight/Volume: | |
| Analysis Date: | 12/12/2012 0757 | Units: | millivolts | Final Weight/Volume: | |
| Prep Date: | N/A | | | | |
| Leach Date: | 12/12/2012 0650 | | | | |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Oxidation Reduction Potential-Soluble | 475 | 419 | 88 | 85 - 115 | |

**Duplicate - Batch: 360-97380**

**Method: SM 2580B**
**Preparation: N/A**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 480-29976-12 | Analysis Batch: | 360-97380 | Instrument ID: | No Equipment |
| Client Matrix: | Solid | Prep Batch: | N/A | Lab File ID: | N/A |
| Dilution: | 1.0 | Leach Batch: | 360-97378 | Initial Weight/Volume: | |
| Analysis Date: | 12/12/2012 0840 | Units: | millivolts | Final Weight/Volume: | |
| Prep Date: | N/A | | | | |
| Leach Date: | 12/12/2012 0650 | | | | |

| Analyte | Sample Result/Qual | Result | RPD | Limit | Qual |
|---|---|---|---|---|---|
| Oxidation Reduction Potential-Soluble | 13 | 14.0 | 7 | 20 | |

# DATA REPORTING QUALIFIERS

Client: Olin Corporation

Job Number: 480-29976-1

| Lab Section | Qualifier | Description |
|---|---|---|
| GC/MS VOA | | |
| | J | Indicates an Estimated Value for TICs |
| | * | LCS or LCSD exceeds the control limits |
| | N | Presumptive evidence of material. |
| | E | Result exceeded calibration range. |
| | T | Result is a tentatively identified compound (TIC) and an estimated value. |
| | J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| | * | RPD of the LCS and LCSD exceeds the control limits |
| | H | Sample was prepped or analyzed beyond the specified holding time |

Client: Olin Corporation

Job Number: 480-29976-1

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **GC/MS VOA** | | | | | |
| **Analysis Batch:480-95715** | | | | | |
| LCS 480-95715/5 | Lab Control Sample | T | Solid | 8260C | |
| LCSD 480-95715/6 | Lab Control Sample Duplicate | T | Solid | 8260C | |
| MB 480-95715/8 | Method Blank | T | Solid | 8260C | |
| 480-29976-5 | OC-SB-480-6.0/8.0-XXX | T | Solid | 8260C | 480-95742 |
| 480-29976-6 | OC-SB-484-5.5/7.5-XXX | T | Solid | 8260C | 480-95742 |
| 480-29976-7 | OC-SB-486-8.0/10-XXX | T | Solid | 8260C | 480-95742 |
| 480-29976-8 | OC-SB-491-6.0/8.0-XXX | T | Solid | 8260C | 480-95742 |
| 480-29976-8MS | Matrix Spike | T | Solid | 8260C | 480-95742 |
| 480-29976-8MSD | Matrix Spike Duplicate | T | Solid | 8260C | 480-95742 |
| 480-29976-9 | OC-DUP-3 | T | Solid | 8260C | 480-95742 |
| **Prep Batch: 480-95742** | | | | | |
| 480-29976-5 | OC-SB-480-6.0/8.0-XXX | T | Solid | 5035 | |
| 480-29976-6 | OC-SB-484-5.5/7.5-XXX | T | Solid | 5035 | |
| 480-29976-7 | OC-SB-486-8.0/10-XXX | T | Solid | 5035 | |
| 480-29976-8 | OC-SB-491-6.0/8.0-XXX | T | Solid | 5035 | |
| 480-29976-8MS | Matrix Spike | T | Solid | 5035 | |
| 480-29976-8MSD | Matrix Spike Duplicate | T | Solid | 5035 | |
| 480-29976-9 | OC-DUP-3 | T | Solid | 5035 | |
| **Analysis Batch:480-96178** | | | | | |
| LCS 480-96180/1-A | Lab Control Sample | T | Solid | 8260C | 480-96180 |
| LCSD 480-96180/22-A | Lab Control Sample Duplicate | T | Solid | 8260C | 480-96180 |
| MB 480-96180/2-A | Method Blank | T | Solid | 8260C | 480-96180 |
| 480-29976-7DL | OC-SB-486-8.0/10-XXX | T | Solid | 8260C | 480-96180 |
| **Prep Batch: 480-96180** | | | | | |
| LCS 480-96180/1-A | Lab Control Sample | T | Solid | 5035 | |
| LCSD 480-96180/22-A | Lab Control Sample Duplicate | T | Solid | 5035 | |
| MB 480-96180/2-A | Method Blank | T | Solid | 5035 | |
| 480-29976-7DL | OC-SB-486-8.0/10-XXX | T | Solid | 5035 | |

**Report Basis**

T = Total

Client: Olin Corporation

Job Number: 480-29976-1

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **General Chemistry** | | | | | |
| **Analysis Batch:480-95496** | | | | | |
| 480-29976-5 | OC-SB-480-6.0/8.0-XXX | T | Solid | Moisture | |
| 480-29976-6 | OC-SB-484-5.5/7.5-XXX | T | Solid | Moisture | |
| 480-29976-7 | OC-SB-486-8.0/10-XXX | T | Solid | Moisture | |
| 480-29976-8 | OC-SB-491-6.0/8.0-XXX | T | Solid | Moisture | |
| 480-29976-8MS | Matrix Spike | T | Solid | Moisture | |
| 480-29976-8MSD | Matrix Spike Duplicate | T | Solid | Moisture | |
| 480-29976-9 | OC-DUP-3 | T | Solid | Moisture | |
| **Prep Batch: 360-97377** | | | | | |
| LCS 360-97377/1-A | Lab Control Sample | S | Solid | DI Leach | |
| 480-29976-1 | OC-SB-504-0.0/1.0-XXX | S | Solid | DI Leach | |
| 480-29976-2 | OC-SB-504-7.5/9.5-XXX | S | Solid | DI Leach | |
| 480-29976-3 | OC-SB-505-0.0/1.0-XXX | S | Solid | DI Leach | |
| 480-29976-4 | OC-SB-505-5.0/7.0-XXX | S | Solid | DI Leach | |
| 480-29976-10 | OC-SB-508-0.0/1.0-XXX | S | Solid | DI Leach | |
| 480-29976-11 | OC-SB-508-8.0/10-XXX | S | Solid | DI Leach | |
| 480-29976-12 | OC-SB-508-12/14-XXX | S | Solid | DI Leach | |
| 480-29976-12DU | Duplicate | S | Solid | DI Leach | |
| **Prep Batch: 360-97378** | | | | | |
| LCS 360-97378/1-A | Lab Control Sample | S | Solid | DI Leach | |
| 480-29976-1 | OC-SB-504-0.0/1.0-XXX | S | Solid | DI Leach | |
| 480-29976-2 | OC-SB-504-7.5/9.5-XXX | S | Solid | DI Leach | |
| 480-29976-3 | OC-SB-505-0.0/1.0-XXX | S | Solid | DI Leach | |
| 480-29976-4 | OC-SB-505-5.0/7.0-XXX | S | Solid | DI Leach | |
| 480-29976-10 | OC-SB-508-0.0/1.0-XXX | S | Solid | DI Leach | |
| 480-29976-11 | OC-SB-508-8.0/10-XXX | S | Solid | DI Leach | |
| 480-29976-12 | OC-SB-508-12/14-XXX | S | Solid | DI Leach | |
| 480-29976-12DU | Duplicate | S | Solid | DI Leach | |
| **Analysis Batch:360-97379** | | | | | |
| LCS 360-97377/1-A | Lab Control Sample | S | Solid | 9045C | |
| 480-29976-1 | OC-SB-504-0.0/1.0-XXX | S | Solid | 9045C | |
| 480-29976-2 | OC-SB-504-7.5/9.5-XXX | S | Solid | 9045C | |
| 480-29976-3 | OC-SB-505-0.0/1.0-XXX | S | Solid | 9045C | |
| 480-29976-4 | OC-SB-505-5.0/7.0-XXX | S | Solid | 9045C | |
| 480-29976-10 | OC-SB-508-0.0/1.0-XXX | S | Solid | 9045C | |
| 480-29976-11 | OC-SB-508-8.0/10-XXX | S | Solid | 9045C | |
| 480-29976-12 | OC-SB-508-12/14-XXX | S | Solid | 9045C | |
| 480-29976-12DU | Duplicate | S | Solid | 9045C | |

Client: Olin Corporation

Job Number: 480-29976-1

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **General Chemistry** | | | | | |
| **Analysis Batch:360-97380** | | | | | |
| LCS 360-97378/1-A | Lab Control Sample | S | Solid | SM 2580B | |
| 480-29976-1 | OC-SB-504-0.0/1.0-XXX | S | Solid | SM 2580B | |
| 480-29976-2 | OC-SB-504-7.5/9.5-XXX | S | Solid | SM 2580B | |
| 480-29976-3 | OC-SB-505-0.0/1.0-XXX | S | Solid | SM 2580B | |
| 480-29976-4 | OC-SB-505-5.0/7.0-XXX | S | Solid | SM 2580B | |
| 480-29976-10 | OC-SB-508-0.0/1.0-XXX | S | Solid | SM 2580B | |
| 480-29976-11 | OC-SB-508-8.0/10-XXX | S | Solid | SM 2580B | |
| 480-29976-12 | OC-SB-508-12/14-XXX | S | Solid | SM 2580B | |
| 480-29976-12DU | Duplicate | S | Solid | SM 2580B | |
| **Analysis Batch:460-140158** | | | | | |
| 480-29976-1 | OC-SB-504-0.0/1.0-XXX | T | Solid | Moisture | |
| 480-29976-2 | OC-SB-504-7.5/9.5-XXX | T | Solid | Moisture | |
| 480-29976-3 | OC-SB-505-0.0/1.0-XXX | T | Solid | Moisture | |
| 480-29976-4 | OC-SB-505-5.0/7.0-XXX | T | Solid | Moisture | |
| 480-29976-10 | OC-SB-508-0.0/1.0-XXX | T | Solid | Moisture | |
| 480-29976-11 | OC-SB-508-8.0/10-XXX | T | Solid | Moisture | |
| 480-29976-12 | OC-SB-508-12/14-XXX | T | Solid | Moisture | |
| 480-29976-12DU | Duplicate | T | Solid | Moisture | |

**Report Basis**

S = Soluble

T = Total

Client: Olin Corporation

Job Number: 480-29976-1

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **HPLC/IC** | | | | | |
| **Analysis Batch:440-77008** | | | | | |
| LCS 440-77069/2-A | Lab Control Sample | T | Solid | 7199 | 440-77069 |
| MB 440-77069/1-A | Method Blank | T | Solid | 7199 | 440-77069 |
| 480-29976-1 | OC-SB-504-0.0/1.0-XXX | T | Solid | 7199 | 440-77069 |
| 480-29976-2 | OC-SB-504-7.5/9.5-XXX | T | Solid | 7199 | 440-77069 |
| 480-29976-2MS | Matrix Spike | T | Solid | 7199 | 440-77069 |
| 480-29976-2MSD | Matrix Spike Duplicate | T | Solid | 7199 | 440-77069 |
| 480-29976-2MSI | Matrix Spike Insoluble | T | Solid | 7199 | 440-77069 |
| 480-29976-3 | OC-SB-505-0.0/1.0-XXX | T | Solid | 7199 | 440-77069 |
| 480-29976-4 | OC-SB-505-5.0/7.0-XXX | T | Solid | 7199 | 440-77069 |
| 480-29976-10 | OC-SB-508-0.0/1.0-XXX | T | Solid | 7199 | 440-77069 |
| 480-29976-11 | OC-SB-508-8.0/10-XXX | T | Solid | 7199 | 440-77069 |
| 480-29976-12 | OC-SB-508-12/14-XXX | T | Solid | 7199 | 440-77069 |
| **Prep Batch: 440-77069** | | | | | |
| LCS 440-77069/2-A | Lab Control Sample | T | Solid | 3060A | |
| MB 440-77069/1-A | Method Blank | T | Solid | 3060A | |
| 480-29976-1 | OC-SB-504-0.0/1.0-XXX | T | Solid | 3060A | |
| 480-29976-2 | OC-SB-504-7.5/9.5-XXX | T | Solid | 3060A | |
| 480-29976-2MS | Matrix Spike | T | Solid | 3060A | |
| 480-29976-2MSD | Matrix Spike Duplicate | T | Solid | 3060A | |
| 480-29976-2MSI | Matrix Spike Insoluble | T | Solid | 3060A | |
| 480-29976-3 | OC-SB-505-0.0/1.0-XXX | T | Solid | 3060A | |
| 480-29976-4 | OC-SB-505-5.0/7.0-XXX | T | Solid | 3060A | |
| 480-29976-10 | OC-SB-508-0.0/1.0-XXX | T | Solid | 3060A | |
| 480-29976-11 | OC-SB-508-8.0/10-XXX | T | Solid | 3060A | |
| 480-29976-12 | OC-SB-508-12/14-XXX | T | Solid | 3060A | |

**Report Basis**

T = Total

Client: Olin Corporation

Job Number: 480-29976-1

## Laboratory Chronicle

**Lab ID:** 480-29976-1 **Client ID:** OC-SB-504-0.0/1.0-XXX

Sample Date/Time: 12/11/2012 08:05 Received Date/Time: 12/11/2012 17:15

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:3060A | 480-29976-A-1-C | | 440-77008 | 440-77069 | 01/04/2013 10:56 | 10 | TAL IRV | QPD |
| A:7199 | 480-29976-A-1-C | | 440-77008 | 440-77069 | 01/05/2013 03:06 | 10 | TAL IRV | QPD |
| A:9045C | 480-29976-A-1-A | | 360-97379 | | 12/12/2012 08:03 | 1 | TAL WFD | RWE |
| A:Moisture | 480-29976-A-1 | | 460-140158 | | 12/17/2012 12:26 | 1 | TAL EDI | IR |
| A:SM 2580B | 480-29976-A-1-B | | 360-97380 | | 12/12/2012 08:03 | 1 | TAL WFD | RWE |

**Lab ID:** 480-29976-2 **Client ID:** OC-SB-504-7.5/9.5-XXX

Sample Date/Time: 12/11/2012 08:30 Received Date/Time: 12/11/2012 17:15

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:3060A | 480-29976-B-2-E | | 440-77008 | 440-77069 | 01/04/2013 10:56 | 10 | TAL IRV | QPD |
| A:7199 | 480-29976-B-2-E | | 440-77008 | 440-77069 | 01/05/2013 03:18 | 10 | TAL IRV | QPD |
| A:9045C | 480-29976-A-2-A | | 360-97379 | | 12/12/2012 08:09 | 1 | TAL WFD | RWE |
| A:Moisture | 480-29976-A-2 | | 460-140158 | | 12/17/2012 12:26 | 1 | TAL EDI | IR |
| A:SM 2580B | 480-29976-A-2-B | | 360-97380 | | 12/12/2012 08:09 | 1 | TAL WFD | RWE |

**Lab ID:** 480-29976-2 MS **Client ID:** OC-SB-504-7.5/9.5-XXX

Sample Date/Time: 12/11/2012 08:30 Received Date/Time: 12/11/2012 17:15

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:3060A | 480-29976-B-2-I MS | | 440-77008 | 440-77069 | 01/04/2013 10:56 | 10 | TAL IRV | QPD |
| A:7199 | 480-29976-B-2-I MS | | 440-77008 | 440-77069 | 01/05/2013 03:31 | 10 | TAL IRV | QPD |

**Lab ID:** 480-29976-2 MSD **Client ID:** OC-SB-504-7.5/9.5-XXX

Sample Date/Time: 12/11/2012 08:30 Received Date/Time: 12/11/2012 17:15

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:3060A | 480-29976-B-2-J MSD | | 440-77008 | 440-77069 | 01/04/2013 10:56 | 10 | TAL IRV | QPD |
| A:7199 | 480-29976-B-2-J MSD | | 440-77008 | 440-77069 | 01/05/2013 03:44 | 10 | TAL IRV | QPD |

**Lab ID:** 480-29976-2 MSI **Client ID:** OC-SB-504-7.5/9.5-XXX

Sample Date/Time: 12/11/2012 08:30 Received Date/Time: 12/11/2012 17:15

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:3060A | 480-29976-B-2-K MSI | | 440-77008 | 440-77069 | 01/04/2013 10:56 | 1000 | TAL IRV | QPD |
| A:7199 | 480-29976-B-2-K MSI | | 440-77008 | 440-77069 | 01/05/2013 09:12 | 1000 | TAL IRV | QPD |

Client: Olin Corporation

Job Number: 480-29976-1

## Laboratory Chronicle

**Lab ID:** **480-29976-3** **Client ID:** **OC-SB-505-0.0/1.0-XXX**

Sample Date/Time: 12/11/2012 09:25 Received Date/Time: 12/11/2012 17:15

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:3060A | 480-29976-A-3-C | | 440-77008 | 440-77069 | 01/04/2013 10:56 | 10 | TAL IRV | QPD |
| A:7199 | 480-29976-A-3-C | | 440-77008 | 440-77069 | 01/05/2013 04:09 | 10 | TAL IRV | QPD |
| A:9045C | 480-29976-A-3-A | | 360-97379 | | 12/12/2012 08:13 | 1 | TAL WFD | RWE |
| A:Moisture | 480-29976-A-3 | | 460-140158 | | 12/17/2012 12:26 | 1 | TAL EDI | IR |
| A:SM 2580B | 480-29976-A-3-B | | 360-97380 | | 12/12/2012 08:13 | 1 | TAL WFD | RWE |

**Lab ID:** **480-29976-4** **Client ID:** **OC-SB-505-5.0/7.0-XXX**

Sample Date/Time: 12/11/2012 09:45 Received Date/Time: 12/11/2012 17:15

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:3060A | 480-29976-B-4-B | | 440-77008 | 440-77069 | 01/04/2013 10:56 | 10 | TAL IRV | QPD |
| A:7199 | 480-29976-B-4-B | | 440-77008 | 440-77069 | 01/05/2013 04:22 | 10 | TAL IRV | QPD |
| A:9045C | 480-29976-A-4-A | | 360-97379 | | 12/12/2012 08:17 | 1 | TAL WFD | RWE |
| A:Moisture | 480-29976-A-4 | | 460-140158 | | 12/17/2012 12:26 | 1 | TAL EDI | IR |
| A:SM 2580B | 480-29976-A-4-B | | 360-97380 | | 12/12/2012 08:17 | 1 | TAL WFD | RWE |

**Lab ID:** **480-29976-5** **Client ID:** **OC-SB-480-6.0/8.0-XXX**

Sample Date/Time: 12/11/2012 10:10 Received Date/Time: 12/11/2012 17:15

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:5035 | 480-29976-C-5-A | | 480-95715 | 480-95742 | 12/14/2012 00:35 | 1 | TAL BUF | CDC |
| A:8260C | 480-29976-C-5-A | | 480-95715 | 480-95742 | 12/14/2012 02:50 | 1 | TAL BUF | JMB |
| A:Moisture | 480-29976-A-5 | | 480-95496 | | 12/12/2012 18:49 | 1 | TAL BUF | MD |

**Lab ID:** **480-29976-6** **Client ID:** **OC-SB-484-5.5/7.5-XXX**

Sample Date/Time: 12/11/2012 10:40 Received Date/Time: 12/11/2012 17:15

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:5035 | 480-29976-C-6-A | | 480-95715 | 480-95742 | 12/14/2012 00:35 | 1 | TAL BUF | CDC |
| A:8260C | 480-29976-C-6-A | | 480-95715 | 480-95742 | 12/14/2012 03:16 | 1 | TAL BUF | JMB |
| A:Moisture | 480-29976-A-6 | | 480-95496 | | 12/12/2012 18:49 | 1 | TAL BUF | MD |

Client: Olin Corporation

Job Number: 480-29976-1

## Laboratory Chronicle

**Lab ID:** 480-29976-7 **Client ID:** OC-SB-486-8.0/10-XXX

Sample Date/Time: 12/11/2012 12:15 Received Date/Time: 12/11/2012 17:15

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:5035 | 480-29976-C-7-A | | 480-95715 | 480-95742 | 12/14/2012 00:35 | 1 | TAL BUF | CDC |
| A:8260C | 480-29976-C-7-A | | 480-95715 | 480-95742 | 12/14/2012 03:41 | 1 | TAL BUF | JMB |
| P:5035 | 480-29976-B-7-B | DL | 480-96178 | 480-96180 | 12/17/2012 12:56 | 1 | TAL BUF | LH |
| A:8260C | 480-29976-B-7-B | DL | 480-96178 | 480-96180 | 12/17/2012 15:08 | 1 | TAL BUF | LH |
| A:Moisture | 480-29976-A-7 | | 480-95496 | | 12/12/2012 18:49 | 1 | TAL BUF | MD |

**Lab ID:** 480-29976-8 **Client ID:** OC-SB-491-6.0/8.0-XXX

Sample Date/Time: 12/11/2012 13:00 Received Date/Time: 12/11/2012 17:15

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:5035 | 480-29976-C-8-A | | 480-95715 | 480-95742 | 12/14/2012 00:35 | 1 | TAL BUF | CDC |
| A:8260C | 480-29976-C-8-A | | 480-95715 | 480-95742 | 12/14/2012 04:08 | 1 | TAL BUF | JMB |
| A:Moisture | 480-29976-A-8 | | 480-95496 | | 12/12/2012 18:49 | 1 | TAL BUF | MD |

**Lab ID:** 480-29976-8 **Client ID:** OC-SB-491-6.0/8.0-XXX

Sample Date/Time: 12/11/2012 13:00 Received Date/Time: 12/11/2012 17:15

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:5035 | 480-29976-C-8-B MS | | 480-95715 | 480-95742 | 12/14/2012 00:35 | 1 | TAL BUF | CDC |
| A:8260C | 480-29976-C-8-B MS | | 480-95715 | 480-95742 | 12/14/2012 04:33 | 1 | TAL BUF | JMB |
| A:Moisture | 480-29976-A-8 MS | | 480-95496 | | 12/12/2012 18:49 | 1 | TAL BUF | MD |

**Lab ID:** 480-29976-8 **Client ID:** OC-SB-491-6.0/8.0-XXX

Sample Date/Time: 12/11/2012 13:00 Received Date/Time: 12/11/2012 17:15

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:5035 | 480-29976-D-8-A MSD | | 480-95715 | 480-95742 | 12/14/2012 00:35 | 1 | TAL BUF | CDC |
| A:8260C | 480-29976-D-8-A MSD | | 480-95715 | 480-95742 | 12/14/2012 04:58 | 1 | TAL BUF | JMB |
| A:Moisture | 480-29976-A-8 MSD | | 480-95496 | | 12/12/2012 18:49 | 1 | TAL BUF | MD |

**Lab ID:** 480-29976-9 **Client ID:** OC-DUP-3

Sample Date/Time: 12/11/2012 00:00 Received Date/Time: 12/11/2012 17:15

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:5035 | 480-29976-C-9-A | | 480-95715 | 480-95742 | 12/14/2012 00:35 | 1 | TAL BUF | CDC |
| A:8260C | 480-29976-C-9-A | | 480-95715 | 480-95742 | 12/14/2012 05:49 | 1 | TAL BUF | JMB |
| A:Moisture | 480-29976-A-9 | | 480-95496 | | 12/12/2012 18:49 | 1 | TAL BUF | MD |

Client: Olin Corporation

Job Number: 480-29976-1

## Laboratory Chronicle

**Lab ID:** **480-29976-10** **Client ID:** **OC-SB-508-0.0/1.0-XXX**

Sample Date/Time: 12/11/2012 13:25 Received Date/Time: 12/11/2012 17:15

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:3060A | 480-29976-A-10-C | | 440-77008 | 440-77069 | 01/04/2013 10:56 | 100 | TAL IRV | QPD |
| A:7199 | 480-29976-A-10-C | | 440-77008 | 440-77069 | 01/05/2013 04:34 | 100 | TAL IRV | QPD |
| A:9045C | 480-29976-A-10-A | | 360-97379 | | 12/12/2012 08:22 | 1 | TAL WFD | RWE |
| A:Moisture | 480-29976-A-10 | | 460-140158 | | 12/17/2012 12:26 | 1 | TAL EDI | IR |
| A:SM 2580B | 480-29976-A-10-B | | 360-97380 | | 12/12/2012 08:22 | 1 | TAL WFD | RWE |

**Lab ID:** **480-29976-11** **Client ID:** **OC-SB-508-8.0/10-XXX**

Sample Date/Time: 12/11/2012 13:40 Received Date/Time: 12/11/2012 17:15

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:3060A | 480-29976-B-11-B | | 440-77008 | 440-77069 | 01/04/2013 10:56 | 10 | TAL IRV | QPD |
| A:7199 | 480-29976-B-11-B | | 440-77008 | 440-77069 | 01/05/2013 05:12 | 10 | TAL IRV | QPD |
| A:9045C | 480-29976-A-11-A | | 360-97379 | | 12/12/2012 08:32 | 1 | TAL WFD | RWE |
| A:Moisture | 480-29976-A-11 | | 460-140158 | | 12/17/2012 12:26 | 1 | TAL EDI | IR |
| A:SM 2580B | 480-29976-A-11-B | | 360-97380 | | 12/12/2012 08:32 | 1 | TAL WFD | RWE |

**Lab ID:** **480-29976-12** **Client ID:** **OC-SB-508-12/14-XXX**

Sample Date/Time: 12/11/2012 13:50 Received Date/Time: 12/11/2012 17:15

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| P:3060A | 480-29976-A-12-E | | 440-77008 | 440-77069 | 01/04/2013 10:56 | 10 | TAL IRV | QPD |
| A:7199 | 480-29976-A-12-E | | 440-77008 | 440-77069 | 01/05/2013 05:25 | 10 | TAL IRV | QPD |
| A:9045C | 480-29976-A-12-A | | 360-97379 | | 12/12/2012 08:36 | 1 | TAL WFD | RWE |
| A:Moisture | 480-29976-A-12 | | 460-140158 | | 12/17/2012 12:26 | 1 | TAL EDI | IR |
| A:SM 2580B | 480-29976-A-12-C | | 360-97380 | | 12/12/2012 08:36 | 1 | TAL WFD | RWE |

**Lab ID:** **480-29976-12 DU** **Client ID:** **OC-SB-508-12/14-XXX**

Sample Date/Time: 12/11/2012 13:50 Received Date/Time: 12/11/2012 17:15

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| A:9045C | 480-29976-A-12-B DU | | 360-97379 | | 12/12/2012 08:40 | 1 | TAL WFD | RWE |
| A:Moisture | 480-29976-A-12 DU | | 460-140158 | | 12/17/2012 12:26 | 1 | TAL EDI | IR |
| A:SM 2580B | 480-29976-A-12-D DU | | 360-97380 | | 12/12/2012 08:40 | 1 | TAL WFD | RWE |

Client: Olin Corporation

Job Number: 480-29976-1

## Laboratory Chronicle

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

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

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| A:8260C | MB 480-95715/8 | | 480-95715 | | 12/14/2012 00:25 | 1 | TAL BUF | JMB |
| P:5035 | MB 480-96180/2-A | | 480-96178 | 480-96180 | 12/17/2012 12:56 | 1 | TAL BUF | LH |
| A:8260C | MB 480-96180/2-A | | 480-96178 | 480-96180 | 12/17/2012 14:31 | 1 | TAL BUF | LH |
| P:3060A | MB 440-77069/1-A | | 440-77008 | 440-77069 | 01/04/2013 10:56 | 10 | TAL IRV | QPD |
| A:7199 | MB 440-77069/1-A | | 440-77008 | 440-77069 | 01/05/2013 02:40 | 10 | TAL IRV | QPD |

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

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

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| A:8260C | LCS 480-95715/5 | | 480-95715 | | 12/13/2012 23:08 | 1 | TAL BUF | JMB |
| P:5035 | LCS 480-96180/1-A | | 480-96178 | 480-96180 | 12/17/2012 12:56 | 1 | TAL BUF | LH |
| A:8260C | LCS 480-96180/1-A | | 480-96178 | 480-96180 | 12/17/2012 13:15 | 1 | TAL BUF | LH |
| P:3060A | LCS 440-77069/2-A | | 440-77008 | 440-77069 | 01/04/2013 10:56 | 10 | TAL IRV | QPD |
| A:7199 | LCS 440-77069/2-A | | 440-77008 | 440-77069 | 01/05/2013 02:53 | 10 | TAL IRV | QPD |
| A:9045C | LCS 360-97377/1-A | | 360-97379 | | 12/12/2012 07:28 | 1 | TAL WFD | RWE |
| A:SM 2580B | LCS 360-97378/1-A | | 360-97380 | | 12/12/2012 07:57 | 1 | TAL WFD | RWE |

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

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

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---|---|---|---|---|---|---|---|---|
| A:8260C | LCSD 480-95715/6 | | 480-95715 | | 12/13/2012 23:34 | 1 | TAL BUF | JMB |
| P:5035 | LCSD 480-96180/22-A | | 480-96178 | 480-96180 | 12/17/2012 13:04 | 1 | TAL BUF | LH |
| A:8260C | LCSD 480-96180/22-A | | 480-96178 | 480-96180 | 12/17/2012 13:40 | 1 | TAL BUF | LH |

**Lab References:**

TAL BUF = TestAmerica Buffalo

TAL EDI = TestAmerica Edison

TAL IRV = TestAmerica Irvine

TAL WFD = TestAmerica Westfield

# Certification Summary

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

TestAmerica Job ID: 480-29976-1

| 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 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 |
| TestAmerica Edison | Pennsylvania | NELAP | 3 | 68-00522 |
| TestAmerica Edison | Rhode Island | State Program | 1 | LAO00132 |
| TestAmerica Edison | USDA | Federal | | NJCA-003-08 |
| TestAmerica Irvine | Alaska | State Program | 10 | CA01531 |
| TestAmerica Irvine | Arizona | State Program | 9 | AZ0671 |
| TestAmerica Irvine | California | LA Cty Sanitation Districts | 9 | 10256 |
| TestAmerica Irvine | California | NELAP | 9 | 1108CA |
| TestAmerica Irvine | California | State Program | 9 | 2706 |
| TestAmerica Irvine | Guam | State Program | 9 | Cert. No. 12.002r |
| TestAmerica Irvine | Hawaii | State Program | 9 | N/A |
| TestAmerica Irvine | Nevada | State Program | 9 | CA015312007A |
| TestAmerica Irvine | New Mexico | State Program | 6 | N/A |
| TestAmerica Irvine | Northern Mariana Islands | State Program | 9 | MP0002 |
| TestAmerica Irvine | Oregon | NELAP | 10 | 4005 |
| TestAmerica Irvine | USDA | Federal | | P330-09-00080 |

# Certification Summary

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

TestAmerica Job ID: 480-29976-1

| Laboratory | Authority | Program | EPA Region | Certification ID |
|---|---|---|---|---|
| TestAmerica Irvine | USEPA UCMR | Federal | 1 | CA01531 |
| TestAmerica Westfield | Connecticut | State Program | 1 | PH-0494 |
| TestAmerica Westfield | Massachusetts | State Program | 1 | M-MA014 |
| TestAmerica Westfield | New Hampshire | NELAP | 1 | 2539 |

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

# 8260MCP

## Volatile Organic Compounds (GC/MS)

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Matrix: Solid Level: Low

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

| Client Sample ID | Lab Sample ID | DCA # | TOL # | BFB # |
|---|---|---|---|---|
| OC-SB-480-6.0/8.0-XXX | 480-29976-5 | 86 | 85 | 83 |
| OC-SB-484-5.5/7.5-XXX | 480-29976-6 | 87 | 87 | 86 |
| OC-SB-486-8.0/10-XXX | 480-29976-7 | 91 | 91 | 86 |
| OC-SB-491-6.0/8.0-XXX | 480-29976-8 | 90 | 89 | 87 |
| OC-DUP-3 | 480-29976-9 | 92 | 90 | 87 |
| | MB 480-95715/8 | 86 | 93 | 87 |
| | LCS 480-95715/5 | 88 | 92 | 89 |
| | LCSD 480-95715/6 | 86 | 88 | 85 |
| OC-SB-491-6.0/8.0-XXX MS | 480-29976-8 MS | 81 | 88 | 84 |
| OC-SB-491-6.0/8.0-XXX MSD | 480-29976-8 MSD | 80 | 87 | 83 |

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

# Column to be used to flag recovery values

FORM II 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Matrix: Solid Level: Medium

GC Column (1): ZB-624 (30) ID: 0.53 (mm)

| Client Sample ID | Lab Sample ID | DCA # | TOL # | BFB # |
|---|---|---|---|---|
| OC-SB-486-8.0/10-X XX DL | 480-29976-7 DL | 86 | 88 | 82 |
| | MB 480-96180/2-A | 86 | 86 | 81 |
| | LCS 480-96180/1-A | 92 | 89 | 87 |
| | LCSD 480-96180/22-A | 89 | 87 | 83 |

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

# Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F4301.D

Lab ID: LCS 480-95715/5 Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | LCS CONCENTRATION (ug/Kg) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| 2,4,4-Trimethyl-1-pentene | 50.0 | 62.2 | 124 | 70-130 | |
| 2,4,4-Trimethyl-2-pentene | 50.0 | 56.5 | 113 | 70-130 | |

# Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Matrix: Solid Level: Medium Lab File ID: C25370.D

Lab ID: LCS 480-96180/1-A Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | LCS CONCENTRATION (ug/Kg) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| 2,4,4-Trimethyl-1-pentene | 2500 | 2500 | 100 | 70-130 | |
| 2,4,4-Trimethyl-2-pentene | 2500 | 3460 | 138 | 70-130 | * |

# Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F4302.D

Lab ID: LCSD 480-95715/6 Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | LCSD CONCENTRATION (ug/Kg) | LCSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| 2,4,4-Trimethyl-1-pentene | 50.0 | 60.8 | 122 | 2 | 20 | 70-130 | |
| 2,4,4-Trimethyl-2-pentene | 50.0 | 53.4 | 107 | 6 | 20 | 70-130 | |

# Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Matrix: Solid Level: Medium Lab File ID: C25371.D

Lab ID: LCSD 480-96180/22-A Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | LCSD CONCENTRATION (ug/Kg) | LCSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| 2,4,4-Trimethyl-1-pentene | 2350 | 2010 | 86 | 22 | 20 | 70-130 | * |
| 2,4,4-Trimethyl-2-pentene | 2350 | 3040 | 129 | 13 | 20 | 70-130 | |

# Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F4312.D

Lab ID: 480-29976-8 MS Client ID: OC-SB-491-6.0/8.0-XXX MS

| COMPOUND | SPIKE ADDED (ug/Kg) | SAMPLE CONCENTRATION (ug/Kg) | MS CONCENTRATION (ug/Kg) | MS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|---|
| 2,4,4-Trimethyl-1-pentene | 55.6 | ND | 57.3 | 103 | 70-130 | |
| 2,4,4-Trimethyl-2-pentene | 55.6 | ND | 60.7 | 109 | 70-130 | |

# Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F4313.D

Lab ID: 480-29976-8 MSD Client ID: OC-SB-491-6.0/8.0-XXX MSD

| COMPOUND | SPIKE ADDED (ug/Kg) | MSD CONCENTRATION (ug/Kg) | MSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| 2,4,4-Trimethyl-1-pentene | 54.1 | 52.7 | 98 | 8 | 30 | 70-130 | |
| 2,4,4-Trimethyl-2-pentene | 54.1 | 52.3 | 97 | 15 | 30 | 70-130 | |

# Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Lab File ID: F4304.D Lab Sample ID: MB 480-95715/8

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

Instrument ID: HP5973F Date Analyzed: 12/14/2012 00:25

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

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 480-95715/5 | F4301.D | 12/13/2012 23:08 |
| | LCSD 480-95715/6 | F4302.D | 12/13/2012 23:34 |
| OC-SB-480-6.0/8.0-XXX | 480-29976-5 | F4308.D | 12/14/2012 02:50 |
| OC-SB-484-5.5/7.5-XXX | 480-29976-6 | F4309.D | 12/14/2012 03:16 |
| OC-SB-486-8.0/10-XXX | 480-29976-7 | F4310.D | 12/14/2012 03:41 |
| OC-SB-491-6.0/8.0-XXX | 480-29976-8 | F4311.D | 12/14/2012 04:08 |
| OC-SB-491-6.0/8.0-XXX MS | 480-29976-8 MS | F4312.D | 12/14/2012 04:33 |
| OC-SB-491-6.0/8.0-XXX MSD | 480-29976-8 MSD | F4313.D | 12/14/2012 04:58 |
| OC-DUP-3 | 480-29976-9 | F4315.D | 12/14/2012 05:49 |

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Lab File ID: C25373.D Lab Sample ID: MB 480-96180/2-A

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

Instrument ID: HP5973C Date Analyzed: 12/17/2012 14:31

GC Column: ZB-624 (30) ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 480-96180/1-A | C25370.D | 12/17/2012 13:15 |
| | LCSD 480-96180/22-A | C25371.D | 12/17/2012 13:40 |
| OC-SB-486-8.0/10-XXX DL | 480-29976-7 DL | C25374.D | 12/17/2012 15:08 |

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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Lab File ID: C25043.D BFB Injection Date: 12/09/2012

Instrument ID: HP5973C BFB Injection Time: 19:14

Analysis Batch No.: 94870

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 24.1 | |
| 75 | 30.0 - 60.0 % of mass 95 | 53.1 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 6.9 | |
| 173 | Less than 2.0 % of mass 174 | 0.0 | (0.0)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 68.8 | |
| 175 | 5.0 - 9.0 % of mass 174 | 5.2 | (7.5)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 67.0 | (97.4)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 4.1 | (6.1)2 |

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

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

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | IC 480-94870/3 | C25045.D | 12/09/2012 | 20:11 |
| | IC 480-94870/5 | C25047.D | 12/09/2012 | 21:01 |
| | IC 480-94870/6 | C25048.D | 12/09/2012 | 21:26 |
| | IC 480-94870/7 | C25049.D | 12/09/2012 | 21:52 |
| | ICIS 480-94870/8 | C25050.D | 12/09/2012 | 22:17 |
| | IC 480-94870/9 | C25051.D | 12/09/2012 | 22:42 |
| | IC 480-94870/10 | C25052.D | 12/09/2012 | 23:07 |
| | IC 480-94870/16 | C25058.D | 12/10/2012 | 01:38 |
| | IC 480-94870/17 | C25059.D | 12/10/2012 | 02:03 |
| | IC 480-94870/18 | C25060.D | 12/10/2012 | 02:28 |
| | IC 480-94870/19 | C25061.D | 12/10/2012 | 02:53 |
| | IC 480-94870/20 | C25062.D | 12/10/2012 | 03:18 |
| | IC 480-94870/21 | C25063.D | 12/10/2012 | 03:44 |

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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Lab File ID: C25367.D BFB Injection Date: 12/17/2012

Instrument ID: HP5973C BFB Injection Time: 11:11

Analysis Batch No.: 96178

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 21.5 | |
| 75 | 30.0 - 60.0 % of mass 95 | 51.2 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 6.7 | |
| 173 | Less than 2.0 % of mass 174 | 0.0 | (0.0)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 71.9 | |
| 175 | 5.0 - 9.0 % of mass 174 | 5.0 | (7.0)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 71.2 | (99.1)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 4.4 | (6.2)2 |

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

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

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | CCVIS 480-96178/2 | C25368.D | 12/17/2012 | 11:43 |
| | CCV 480-96178/3 | C25369.D | 12/17/2012 | 12:27 |
| | LCS 480-96180/1-A | C25370.D | 12/17/2012 | 13:15 |
| | LCSD 480-96180/22-A | C25371.D | 12/17/2012 | 13:40 |
| | MB 480-96180/2-A | C25373.D | 12/17/2012 | 14:31 |
| OC-SB-486-8.0/10-XXX DL | 480-29976-7 DL | C25374.D | 12/17/2012 | 15:08 |

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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

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

Instrument ID: HP5973F BFB Injection Time: 15:25

Analysis Batch No.: 95189

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

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

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

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | STD1 480-95189/3 | F4222.D | 12/11/2012 | 15:52 |
| | STD2 480-95189/4 | F4223.D | 12/11/2012 | 16:17 |
| | STD3 480-95189/5 | F4224.D | 12/11/2012 | 16:43 |
| | STD4 480-95189/6 | F4225.D | 12/11/2012 | 17:08 |
| | STD5 480-95189/7 | F4226.D | 12/11/2012 | 17:34 |
| | STD6 480-95189/8 | F4227.D | 12/11/2012 | 17:59 |
| | STD7 480-95189/9 | F4228.D | 12/11/2012 | 18:24 |
| | STD8 480-95189/10 | F4229.D | 12/11/2012 | 18:50 |
| | STD9 480-95189/11 | F4230.D | 12/11/2012 | 19:15 |
| | STD11 480-95189/13 | F4232.D | 12/11/2012 | 20:07 |
| | STD12 480-95189/14 | F4233.D | 12/11/2012 | 20:32 |
| | STD13 480-95189/15 | F4234.D | 12/11/2012 | 20:57 |
| | STD14 480-95189/16 | F4235.D | 12/11/2012 | 21:23 |
| | STD10 480-95189/20 | F4239.D | 12/11/2012 | 23:36 |

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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Lab File ID: F4298.D BFB Injection Date: 12/13/2012

Instrument ID: HP5973F BFB Injection Time: 21:33

Analysis Batch No.: 95715

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 50 | 15.0 - 40.0 % of mass 95 | 16.9 | |
| 75 | 30.0 - 60.0 % of mass 95 | 40.8 | |
| 95 | Base Peak, 100% relative abundance | 100.0 | |
| 96 | 5.0 - 9.0 % of mass 95 | 7.2 | |
| 173 | Less than 2.0 % of mass 174 | 0.0 | (0.0)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 86.2 | |
| 175 | 5.0 - 9.0 % of mass 174 | 6.9 | (8.0)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 86.5 | (100.4)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 5.5 | (6.3)2 |

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

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

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| | CCVIS 480-95715/3 | F4299.D | 12/13/2012 | 22:01 |
| | CCV 480-95715/4 | F4300.D | 12/13/2012 | 22:42 |
| | LCS 480-95715/5 | F4301.D | 12/13/2012 | 23:08 |
| | LCSD 480-95715/6 | F4302.D | 12/13/2012 | 23:34 |
| | MB 480-95715/8 | F4304.D | 12/14/2012 | 00:25 |
| OC-SB-480-6.0/8.0-XXX | 480-29976-5 | F4308.D | 12/14/2012 | 02:50 |
| OC-SB-484-5.5/7.5-XXX | 480-29976-6 | F4309.D | 12/14/2012 | 03:16 |
| OC-SB-486-8.0/10-XXX | 480-29976-7 | F4310.D | 12/14/2012 | 03:41 |
| OC-SB-491-6.0/8.0-XXX | 480-29976-8 | F4311.D | 12/14/2012 | 04:08 |
| OC-SB-491-6.0/8.0-XXX MS | 480-29976-8 MS | F4312.D | 12/14/2012 | 04:33 |
| OC-SB-491-6.0/8.0-XXX MSD | 480-29976-8 MSD | F4313.D | 12/14/2012 | 04:58 |
| OC-DUP-3 | 480-29976-9 | F4315.D | 12/14/2012 | 05:49 |

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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Sample No.: ICIS 480-94870/8 Date Analyzed: 12/09/2012 22:17

Instrument ID: HP5973C GC Column: ZB-624 (30) ID: 0.53(mm)

Lab File ID (Standard): C25050.D Heated Purge: (Y/N) N

Calibration ID: 11394

| | | DFB | | CBZ | | DCB | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 680011 | 9.59 | 368343 | 11.96 | 321698 | 14.01 |
| UPPER LIMIT | | | | | | | |
| LOWER LIMIT | | | | | | | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| CCVIS 480-96178/2 | | 609054 | 9.59 | 339368 | 11.97 | 298481 | 14.01 |

# Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Sample No.: CCVIS 480-96178/2 Date Analyzed: 12/17/2012 11:43

Instrument ID: HP5973C GC Column: ZB-624 (30) ID: 0.53(mm)

Lab File ID (Standard): C25368.D Heated Purge: (Y/N) N

Calibration ID: 11396

| | | DFB | | CBZ | | DCB | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 609054 | 9.59 | 339368 | 11.97 | 298481 | 14.01 |
| UPPER LIMIT | | | | | | | |
| LOWER LIMIT | | | | | | | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| CCV 480-96178/3 | | 605895 | 9.59 | 333516 | 11.97 | 295733 | 14.01 |
| LCS 480-96180/1-A | | 597124 | 9.59 | 334599 | 11.97 | 291239 | 14.01 |
| LCSD 480-96180/22-A | | 610923 | 9.59 | 345916 | 11.97 | 304214 | 14.01 |
| MB 480-96180/2-A | | 619463 | 9.59 | 342519 | 11.96 | 300961 | 14.01 |
| 480-29976-7 DL | OC-SB-486-8.0/10-XXX DL | 615208 | 9.59 | 340730 | 11.96 | 296041 | 14.01 |

# Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Sample No.: STD5 480-95189/7 Date Analyzed: 12/11/2012 17:34

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

Lab File ID (Standard): F4226.D Heated Purge: (Y/N) N

Calibration ID: 11592

| | | DFB | | CBZ | | DCB | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 362215 | 5.61 | 157875 | 8.38 | 175985 | 10.70 |
| UPPER LIMIT | | 724430 | 6.11 | 315750 | 8.88 | 351970 | 11.20 |
| LOWER LIMIT | | 181108 | 5.11 | 78938 | 7.88 | 87993 | 10.20 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| CCVIS 480-95715/3 | | 353192 | 5.61 | 156893 | 8.38 | 182598 | 10.70 |

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

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

# Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Sample No.: CCVIS 480-95715/3 Date Analyzed: 12/13/2012 22:01

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

Lab File ID (Standard): F4299.D Heated Purge: (Y/N) N

Calibration ID: 11594

| | | DFB | | CBZ | | DCB | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 353192 | 5.61 | 156893 | 8.38 | 182598 | 10.70 |
| UPPER LIMIT | | 706384 | 6.11 | 313786 | 8.88 | 365196 | 11.20 |
| LOWER LIMIT | | 176596 | 5.11 | 78447 | 7.88 | 91299 | 10.20 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| CCV 480-95715/4 | | 345497 | 5.61 | 151060 | 8.38 | 170730 | 10.70 |
| LCS 480-95715/5 | | 357453 | 5.61 | 157609 | 8.38 | 182150 | 10.70 |
| LCSD 480-95715/6 | | 366809 | 5.61 | 162437 | 8.38 | 184336 | 10.70 |
| MB 480-95715/8 | | 334131 | 5.61 | 144606 | 8.38 | 159530 | 10.70 |
| 480-29976-5 | OC-SB-480-6.0/8.0-XXX | 346828 | 5.61 | 150991 | 8.38 | 173010 | 10.70 |
| 480-29976-6 | OC-SB-484-5.5/7.5-XXX | 345039 | 5.61 | 149428 | 8.38 | 173694 | 10.70 |
| 480-29976-7 | OC-SB-486-8.0/10-XXX | 239463 | 5.61 | 104658 | 8.38 | 117594 | 10.70 |
| 480-29976-8 | OC-SB-491-6.0/8.0-XXX | 334086 | 5.61 | 146696 | 8.38 | 166321 | 10.70 |
| 480-29976-8 MS | OC-SB-491-6.0/8.0-XXX MS | 370712 | 5.61 | 164900 | 8.38 | 186172 | 10.70 |
| 480-29976-8 MSD | OC-SB-491-6.0/8.0-XXX MSD | 369915 | 5.61 | 163798 | 8.38 | 187015 | 10.70 |
| 480-29976-9 | OC-DUP-3 | 334611 | 5.61 | 147003 | 8.38 | 167898 | 10.70 |

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

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

# Column used to flag values outside QC limits

FORM VIII 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-29976-1

SDG No.:

Client Sample ID: OC-SB-480-6.0/8.0-XXX | Lab Sample ID: 480-29976-5

Matrix: Solid | Lab File ID: F4308.D

Analysis Method: 8260C | Date Collected: 12/11/2012 10:10

Sample wt/vol: 5.48(g) | Date Analyzed: 12/14/2012 02:50

Soil Aliquot Vol: | Dilution Factor: 1

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

% Moisture: 6.8 | Level: (low/med) Low

Analysis Batch No.: 95715 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 107-39-1 | 2,4,4-Trimethyl-1-pentene | ND | | 4.9 | 0.42 |
| 107-40-4 | 2,4,4-Trimethyl-2-pentene | ND | | 4.9 | 0.52 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 2037-26-5 | Toluene-d8 (Surr) | 85 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 86 | | 70-130 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 83 | | 70-130 |

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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Client Sample ID: OC-SB-480-6.0/8.0-XXX Lab Sample ID: 480-29976-5

Matrix: Solid Lab File ID: F4308.D

Analysis Method: 8260C Date Collected: 12/11/2012 10:10

Sample wt/vol: 5.48(g) Date Analyzed: 12/14/2012 02:50

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: 6.8 Level: (low/med) Low

Analysis Batch No.: 95715 Units: ug/Kg

Number TICs Found: 10 TIC Result Total: 852.6

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| 141-70-8 | Heptane, 2,2,6,6-tetramethyl-4-methylene | 10.03 | 19 | T J N |
| 1000144-64-7 | 4,4,6-Trimethyl-cyclohex-2-en-1-ol | 10.07 | 19 | T J N |
| 123-48-8 | 3-Heptene, 2,2,4,6,6-pentamethyl- | 10.11 | 28 | T J N |
| 123-48-8 | 3-Heptene, 2,2,4,6,6-pentamethyl- | 10.17 | 13 | T J N |
| 7756-94-7 | 1-Propene, 2-methyl-, trimer | 10.35 | 10 | T J N |
| 54411-1-7 | Cyclohexane, 1-methyl-2-pentyl- | 10.55 | 9.6 | T J N |
| 1000185-76-3 | 3-Methyl-4,7-dioxo-oct-2-enal | 11.50 | 14 | T J N |
| 15220-85-6 | 1-Propene, 2-methyl-, tetramer | 13.15 | 380 | T J N |
| 4390-4-9 | Nonane, 2,2,4,4,6,8,8-heptamethyl- | 13.29 | 210 | T J N |
| 4390-4-9 | Nonane, 2,2,4,4,6,8,8-heptamethyl- | 13.37 | 150 | T J N |

Report Date: 14-Dec-2012 08:59:33 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4308.D | | |
| Lims ID: | 480-29976-C-5-A | Client ID: | OC-SB-480-6.0/8.0-XXX |
| Inject. Date: | 14-Dec-2012 02:50:30 | Dil. Factor: | 1.0000 |
| Sample Type: | Client | | |
| Sample ID: | 480-29976-C-5-A | | |
| Misc. Info.: | 480-0017526-012 =480-0017526-012 | | |
| Operator: | CDC | Instrument ID: | HP5973F |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 4 |
| Lims Batch ID: | 95715 | Lims Sample ID: | 12 |
| Detector: | MS SCAN | | |
| Method: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F-8260 SOIL.m | | |
| Last Update: | 14-Dec-2012 08:59:22 | Calib Date: | 11-Dec-2012 23:36:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4239.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK015 | | |

First Level Reviewer: ByrnesJ Date: 14-Dec-2012 08:51:43

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 5.608 | 5.608 | 0.0 | 93 | 346828 | 50.0 | |
| * 2 Chlorobenzene-d5 | 82 | 8.382 | 8.382 | 0.0 | 80 | 150991 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 10.700 | 10.700 | 0.0 | 91 | 173010 | 50.0 | |
| $ 4 1,2-Dichloroethane-d4 (Surr) | 67 | 5.310 | 5.304 | 0.006 | 99 | 53962 | 42.9 | |
| $ 5 Toluene-d8 (Surr) | 98 | 6.934 | 6.928 | 0.006 | 82 | 388793 | 42.7 | |
| $ 6 4-Bromofluorobenzene (Surr) | 174 | 9.599 | 9.599 | 0.0 | 92 | 133031 | 41.4 | |
| 10 Dichlorodifluoromethane | 85 | | 1.995 | | | | | |
| 12 Chloromethane | 50 | | 2.147 | | | | | |
| 13 Vinyl chloride | 62 | | 2.268 | | | | | |
| 14 Bromomethane | 94 | | 2.548 | | | | | |
| 15 Chloroethane | 64 | | 2.621 | | | | | |
| 17 Trichlorofluoromethane | 101 | | 2.846 | | | | | |
| 18 Ethyl ether | 59 | | 3.035 | | | | | |
| 21 1,1,2-Trichloro-1,2,2-trifluoroe | 101 | | 3.224 | | | | | |
| 22 1,1-Dichloroethene | 96 | | 3.254 | | | | | |
| 23 Acetone | 43 | 3.315 | 3.303 | 0.012 | 80 | 12768 | 13.0 | |
| 26 Carbon disulfide | 76 | | 3.467 | | | | | |
| 27 Methyl acetate | 43 | | 3.528 | | | | | |
| 30 Methylene Chloride | 84 | 3.649 | 3.643 | 0.006 | 72 | 7975 | 2.66 | |
| 32 Methyl tert-butyl ether | 73 | | 3.801 | | | | | |
| 34 trans-1,2-Dichloroethene | 96 | | 3.832 | | | | | |
| 36 Isopropyl ether | 45 | | 4.130 | | | | | |
| 39 1,1-Dichloroethane | 63 | | 4.173 | | | | | |
| 41 Tert-butyl ethyl ether | 59 | | 4.416 | | | | | |
| 43 2-Butanone (MEK) | 43 | | 4.617 | | | | | |
| 44 2,2-Dichloropropane | 77 | | 4.623 | | | | | |
| 45 cis-1,2-Dichloroethene | 96 | | 4.629 | | | | | |
| 48 Chlorobromomethane | 128 | | 4.842 | | | | | |
| 49 Tetrahydrofuran | 42 | | 4.854 | | | | | 9 |
| 50 Chloroform | 83 | | 4.872 | | | | | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 51 1,1,1-Trichloroethane | 97 | | 5.018 | | | | | |
| 52 Cyclohexane | 56 | | 5.049 | | | | | |
| 54 1,1-Dichloropropene | 75 | | 5.140 | | | | | |
| 55 Carbon tetrachloride | 117 | | 5.146 | | | | | |
| 57 Benzene | 78 | | 5.328 | | | | | |
| 56 Tert-amyl methyl ether | 73 | | 5.347 | | | | | |
| 58 1,2-Dichloroethane | 62 | | 5.365 | | | | | |
| 136 2,4,4-Trimethyl-1-pentene | 55 | | 5.736 | | | | | 1 |
| 62 Trichloroethene | 95 | | 5.852 | | | | | |
| 135 2,4,4-Trimethyl-2-pentene | 97 | | 5.918 | | | | | |
| 64 Methylcyclohexane | 83 | | 5.985 | | | | | |
| 65 1,2-Dichloropropane | 63 | | 6.077 | | | | | |
| 66 1,4-Dioxane | 88 | | 6.174 | | | | | |
| 67 Dibromomethane | 93 | | 6.211 | | | | | |
| 68 Dichlorobromomethane | 83 | | 6.320 | | | | | |
| 72 cis-1,3-Dichloropropene | 75 | | 6.697 | | | | | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | | 6.801 | | | | | 9 |
| 74 Toluene | 92 | | 6.995 | | | | | 9 |
| 77 trans-1,3-Dichloropropene | 75 | | 7.214 | | | | | |
| 79 1,1,2-Trichloroethane | 83 | | 7.415 | | | | | |
| 81 Tetrachloroethene | 166 | | 7.519 | | | | | |
| 82 1,3-Dichloropropane | 76 | | 7.585 | | | | | |
| 80 2-Hexanone | 43 | | 7.592 | | | | | |
| 83 Chlorodibromomethane | 129 | | 7.829 | | | | | |
| 84 Ethylene Dibromide | 107 | | 7.957 | | | | | |
| 87 Chlorobenzene | 112 | | 8.413 | | | | | |
| 88 Ethylbenzene | 91 | | 8.474 | | | | | |
| 89 1,1,1,2-Tetrachloroethane | 131 | | 8.492 | | | | | |
| 90 m-Xylene & p-Xylene | 106 | | 8.589 | | | | | 9 |
| 91 o-Xylene | 106 | | 9.021 | | | | | |
| 92 Styrene | 104 | | 9.046 | | | | | 9 |
| 95 Bromoform | 173 | | 9.319 | | | | | |
| 94 Isopropylbenzene | 105 | | 9.386 | | | | | |
| 97 1,1,2,2-Tetrachloroethane | 83 | | 9.757 | | | | | |
| 101 Bromobenzene | 156 | | 9.769 | | | | | |
| 99 N-Propylbenzene | 91 | | 9.800 | | | | | |
| 100 1,2,3-Trichloropropane | 110 | | 9.812 | | | | | |
| 103 2-Chlorotoluene | 126 | | 9.928 | | | | | 9 |
| 102 1,3,5-Trimethylbenzene | 105 | | 9.964 | | | | | 9 |
| 105 4-Chlorotoluene | 126 | | 10.031 | | | | | 9 |
| 106 tert-Butylbenzene | 134 | | 10.281 | | | | | |
| 107 1,2,4-Trimethylbenzene | 105 | | 10.329 | | | | | |
| 109 sec-Butylbenzene | 105 | | 10.481 | | | | | 9 |
| 110 4-Isopropyltoluene | 119 | | 10.603 | | | | | |
| 111 1,3-Dichlorobenzene | 146 | | 10.639 | | | | | 9 |
| 113 1,4-Dichlorobenzene | 146 | | 10.725 | | | | | 9 |
| 115 n-Butylbenzene | 91 | | 10.974 | | | | | 9 |
| 116 1,2-Dichlorobenzene | 146 | | 11.065 | | | | | 9 |
| 117 1,2-Dibromo-3-Chloropropane | 75 | | 11.741 | | | | | |
| 119 1,2,4-Trichlorobenzene | 180 | | 12.385 | | | | | |
| 120 Hexachlorobutadiene | 225 | | 12.483 | | | | | |
| 121 Naphthalene | 128 | | 12.623 | | | | | 9 |

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

QC Flag Legend

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

TestAmerica Buffalo
Tentatively Identified Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4308.D | | |
| Lims ID: | 480-29976-C-5-A | Client ID: | OC-SB-480-6.0/8.0-XXX |
| Inject. Date: | 14-Dec-2012 02:50:30 | Dil. Factor: | 1.0000 |
| Sample Type: | Client | | |
| Sample ID: | 480-29976-C-5-A | | |
| Misc. Info.: | 480-0017526-012 =480-0017526-012 | | |
| Operator: | CDC | Instrument ID: | HP5973F |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 4 |
| Lims Batch ID: | 95715 | Lims Sample ID: | 12 |
| Detector: | MS SCAN | | |
| Method: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F-8260 SOIL.m | | |
| Last Update: | 14-Dec-2012 08:59:22 | Calib Date: | 11-Dec-2012 23:36:30 |
| Tic RT Window: | 1.500 -0.000 | Response: | area |
| Quant By: | Nearest ISTD | Quant LOD: | 10.00000 |
| MS Library: | \\Bufchrom\ChromData\Database\NIST98.L | | |
| Min. Match: | 0 | | |
| Process Host: | XAWRK015 | | |
| First Level Reviewer: ByrnesJ | | Date: | 14-Dec-2012 08:51:43 |

Tentative Identified Compound Results

| RT | Response | Amount ug/kg | Quant Cpnd | Qual | Lib Entry | Flags |
|---|---|---|---|---|---|---|
| 141-70-8 Heptane, 2,2,6,6-tetramethyl-4-methylene | | | | | | |
| 10.025 | 415063 | 19.1 | 3 | 90 | 15794 | |
| 1000144-64-7 4,4,6-Trimethyl-cyclohex-2-en-1-ol | | | | | | |
| 10.067 | 417081 | 19.2 | 3 | 9 | 33800 | |
| 123-48-8 3-Heptene, 2,2,4,6,6-pentamethyl- | | | | | | |
| 10.110 | 614643 | 28.2 | 3 | 91 | 17462 | |
| 123-48-8 3-Heptene, 2,2,4,6,6-pentamethyl- | | | | | | |
| 10.171 | 290006 | 13.3 | 3 | 52 | 17462 | |
| 7756-94-7 1-Propene, 2-methyl-, trimer | | | | | | |
| 10.353 | 230953 | 10.6 | 3 | 87 | 17464 | |
| 54411-1-7 Cyclohexane, 1-methyl-2-pentyl- | | | | | | |
| 10.554 | 213207 | 9.80 | 3 | 72 | 118314 | |
| 1000185-76-3 3-Methyl-4,7-dioxo-oct-2-enal | | | | | | |
| 11.503 | 305120 | 14.0 | 3 | 40 | 8019 | |
| 15220-85-6 1-Propene, 2-methyl-, tetramer | | | | | | |
| 13.152 | 8417436 | 386.7 | 3 | 53 | 17463 | |
| 4390-4-9 Nonane, 2,2,4,4,6,8,8-heptamethyl- | | | | | | |
| 13.286 | 4561360 | 209.6 | 3 | 45 | 112003 | |
| 4390-4-9 Nonane, 2,2,4,4,6,8,8-heptamethyl- | | | | | | |
| 13.365 | 3303842 | 151.8 | 3 | 12 | 112111 | |

Quantitation Compounds

| Compound | RT | Response | Amount ug/kg |
|---|---|---|---|

| Compound | RT | Response | Amount ug/kg |
|---|---|---|---|
| * 3 1,4-Dichlorobenzene-d4 | 10.700 | 1088274 | 50.0 |

QC Flag Legend

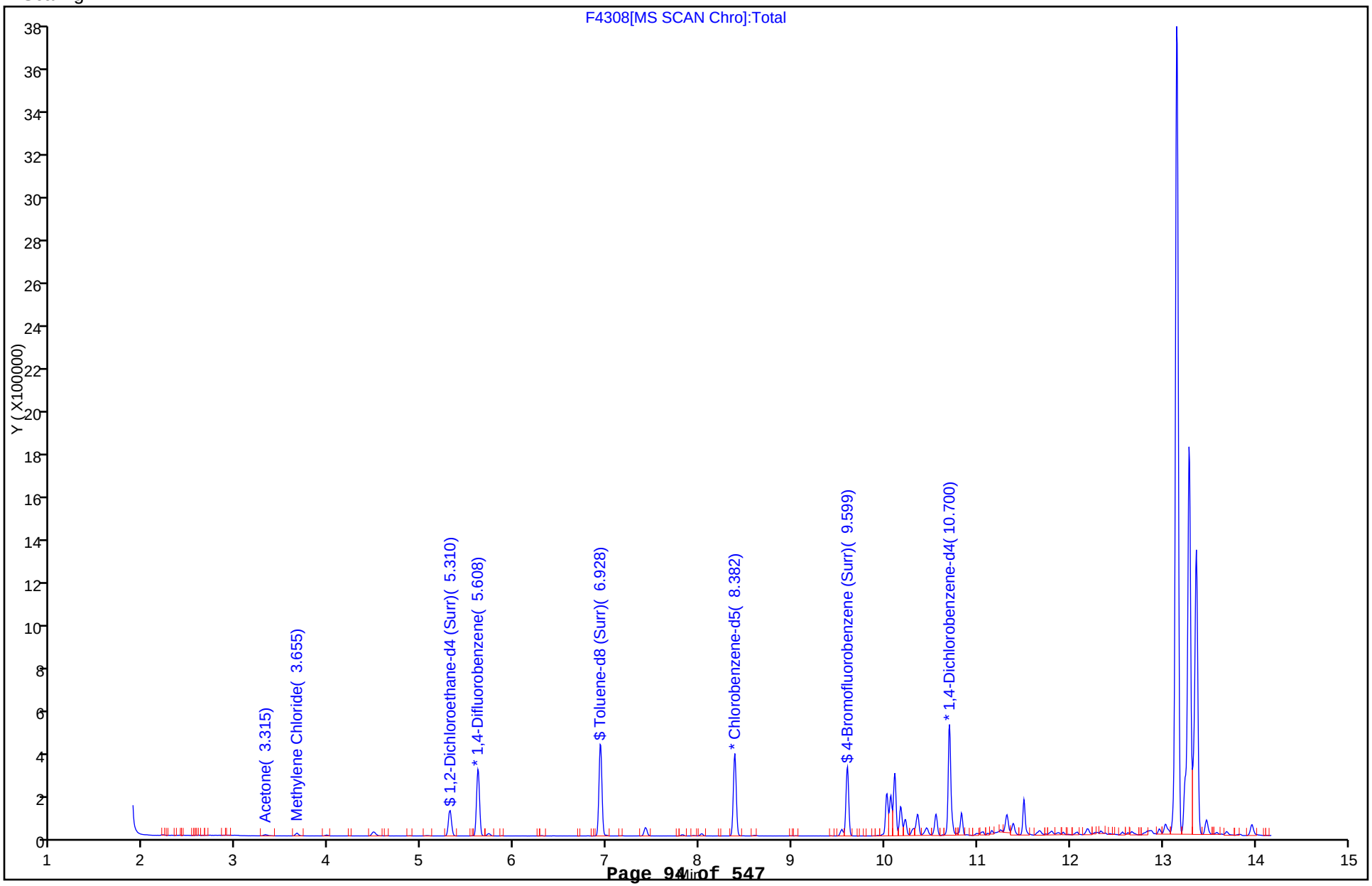
Processing Flags

Report Date: 14-Dec-2012 08:59:33 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4308.D | | |
| Injection Date: | 14-Dec-2012 02:50:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-480-6.0/8.0-XXX | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 12 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:



Report Date: 14-Dec-2012 08:59:33 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

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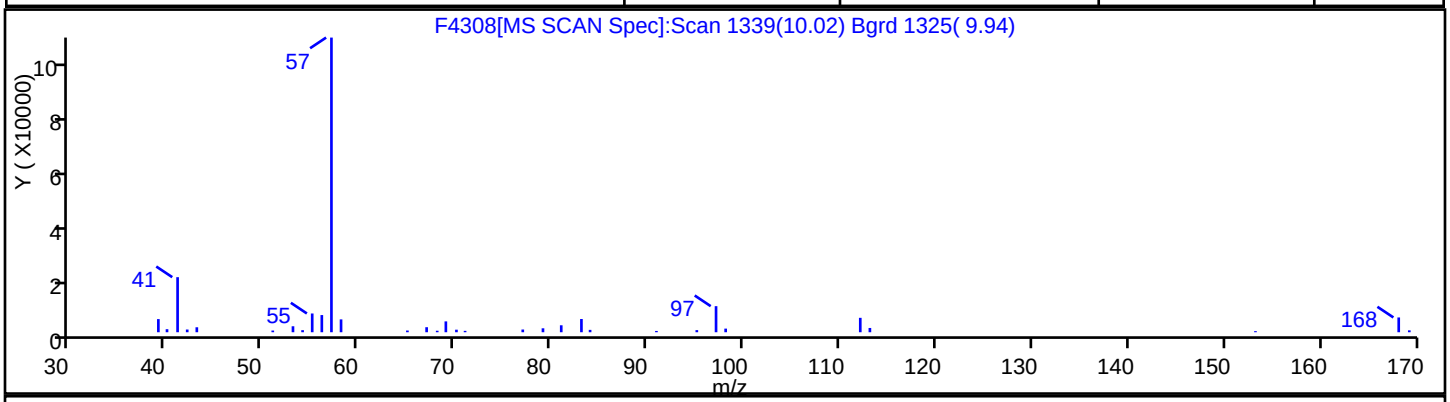
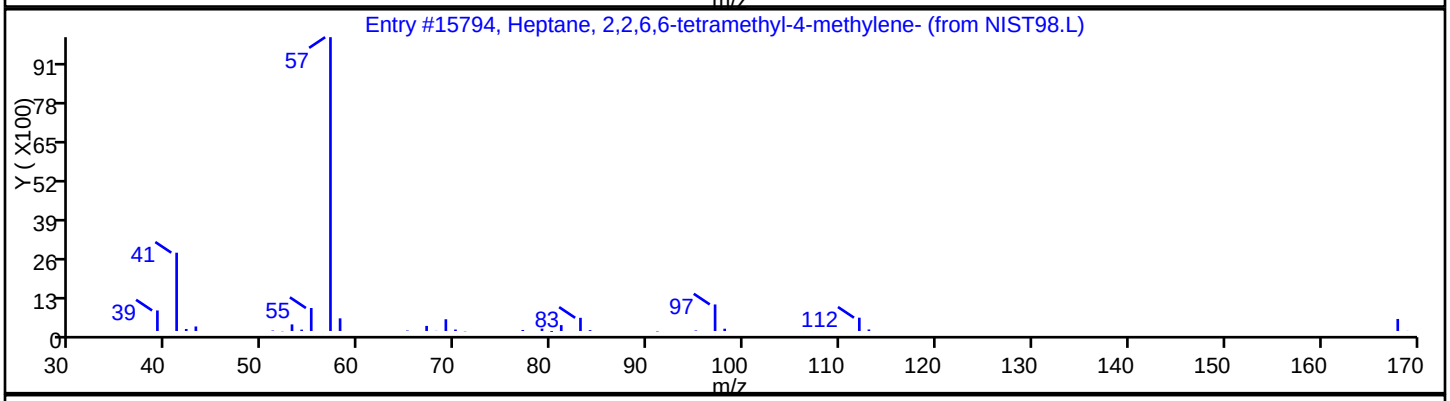
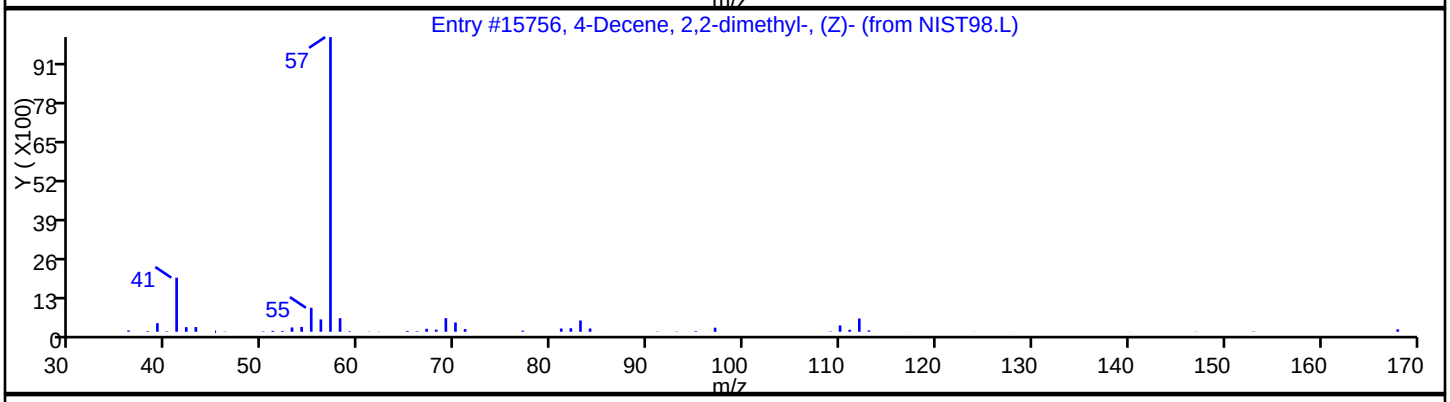
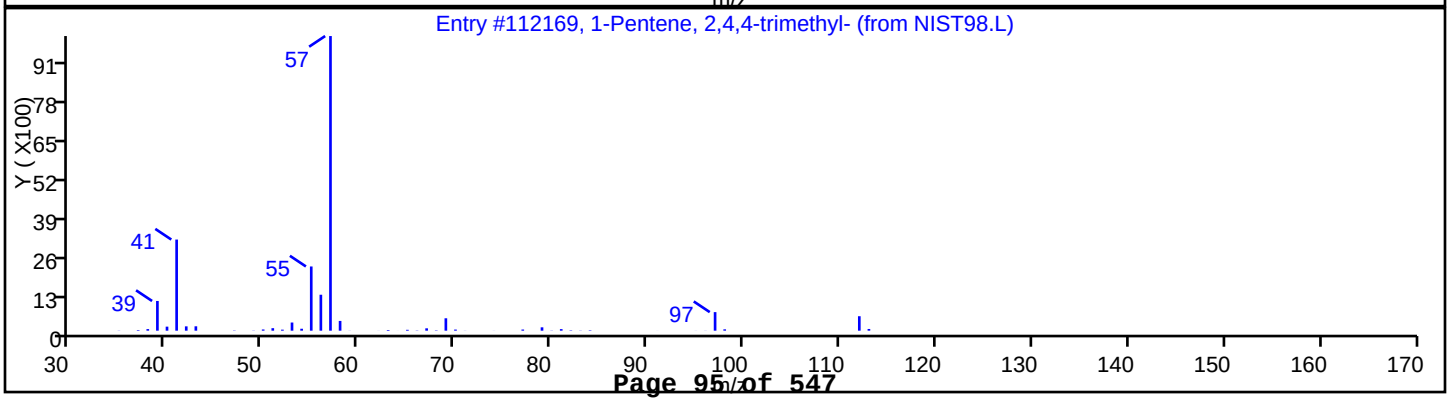
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4308.D | | |
| Injection Date: | 14-Dec-2012 02:50:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-480-6.0/8.0-XXX | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 12 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| Heptane, 2,2,6,6-tetramethyl-4-methylene | 141-70-8 | NIST98.L | 15794 | 90 |
| 4-Decene, 2,2-dimethyl-, (Z)- | 55499-3-1 | NIST98.L | 15756 | 45 |
| 1-Pentene, 2,4,4-trimethyl- | 107-39-1 | NIST98.L | 112169 | 43 |



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TestAmerica Buffalo

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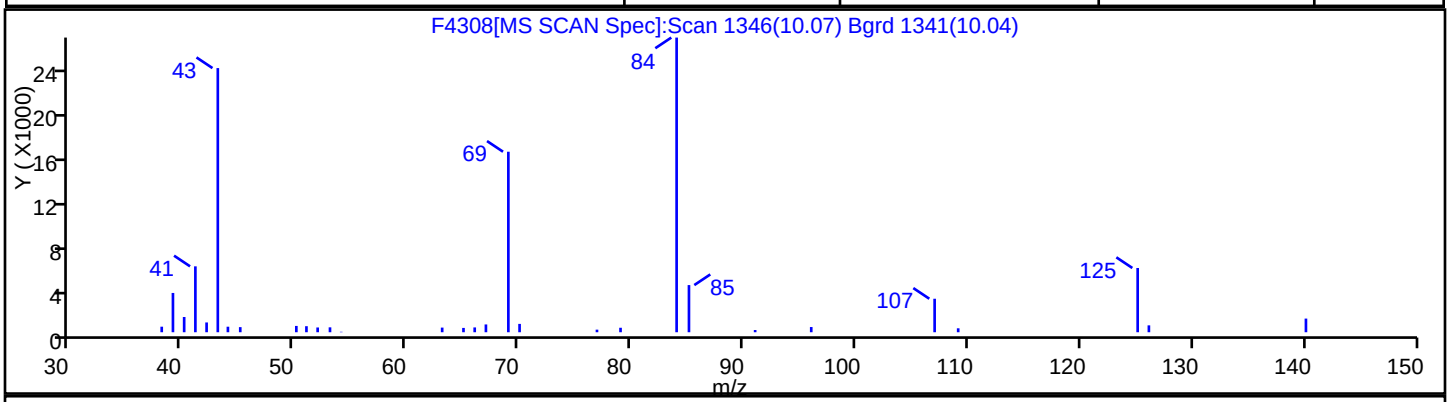
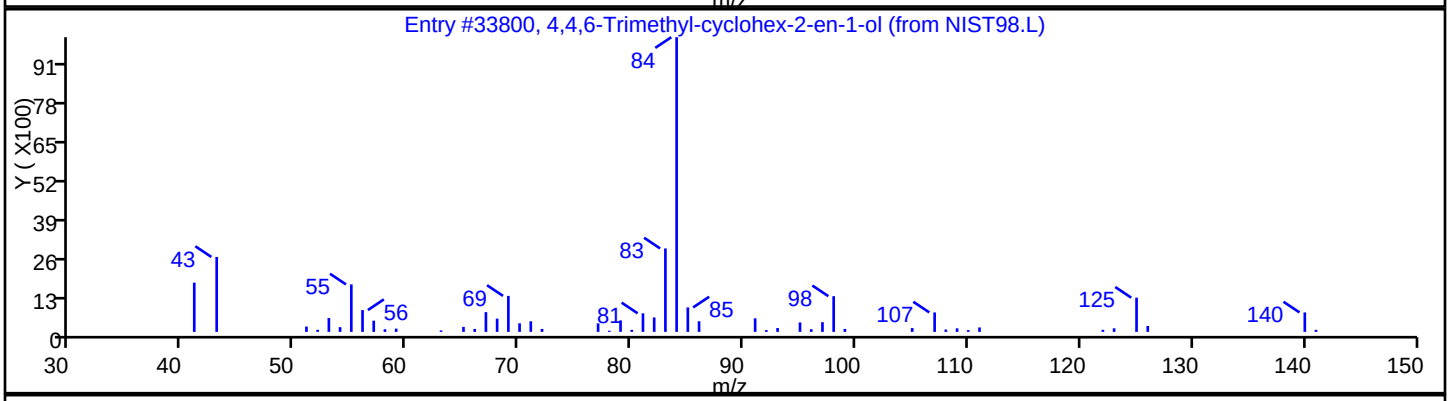
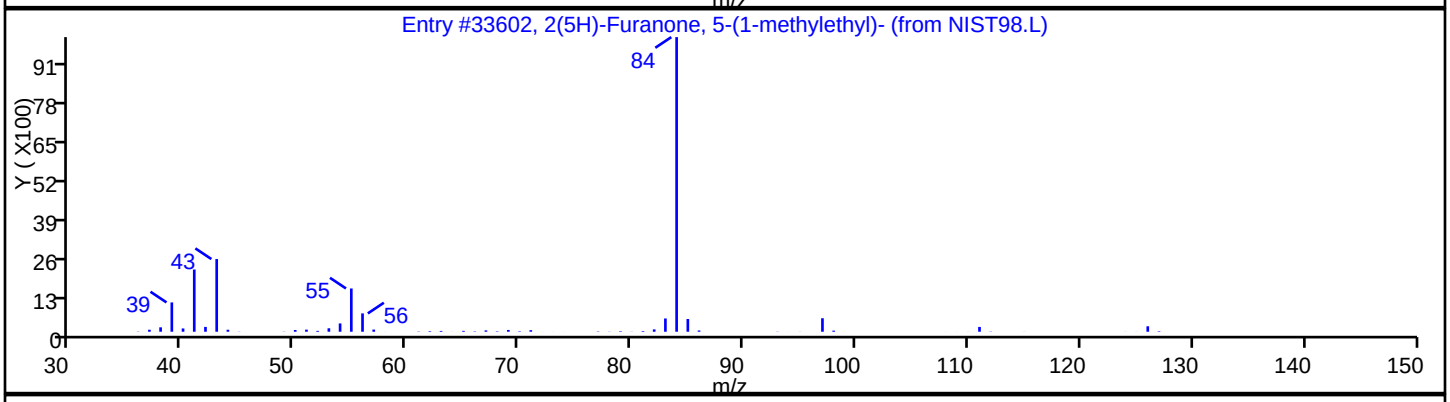
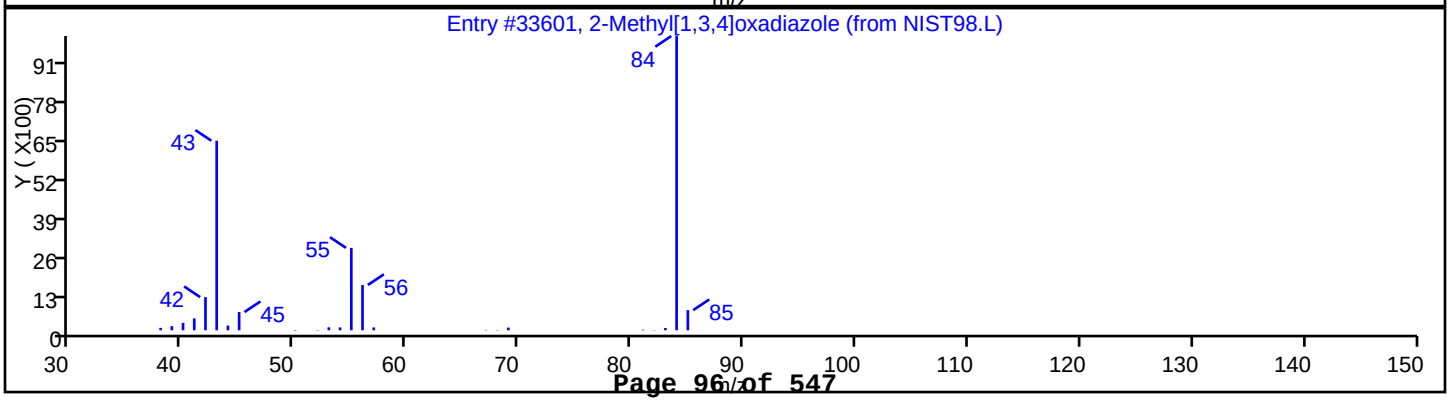
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4308.D | | |
| Injection Date: | 14-Dec-2012 02:50:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-480-6.0/8.0-XXX | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 12 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| 4,4,6-Trimethyl-cyclohex-2-en-1-ol | 1000144-64-7 | NIST98.L | 33800 | 9 |
| 2(5H)-Furanone, 5-(1-methylethyl)- | 56767-19-2 | NIST98.L | 33602 | 9 |
| 2-Methyl[1,3,4]oxadiazole | 3451-51-2 | NIST98.L | 33601 | 9 |



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TestAmerica Buffalo

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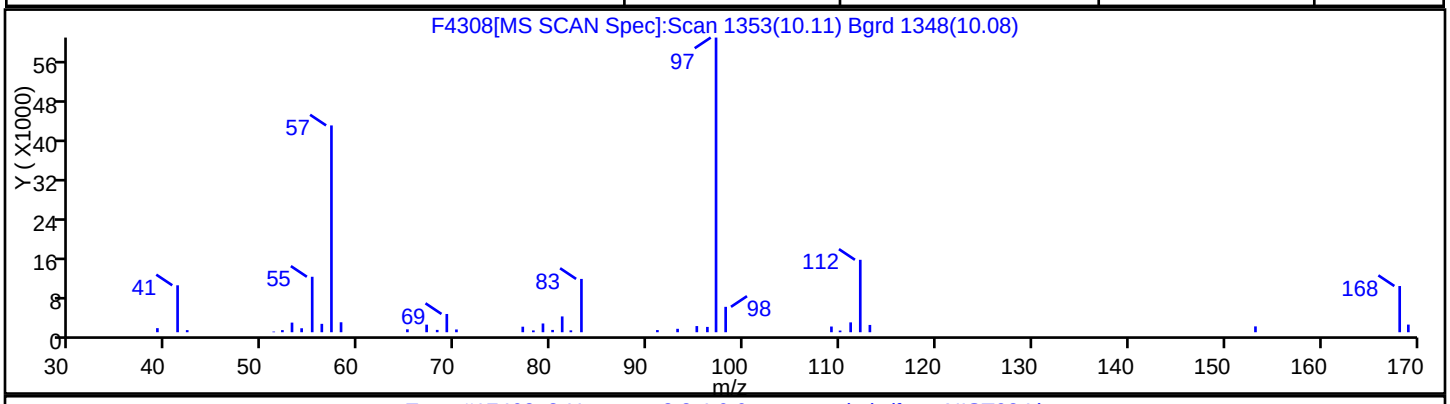
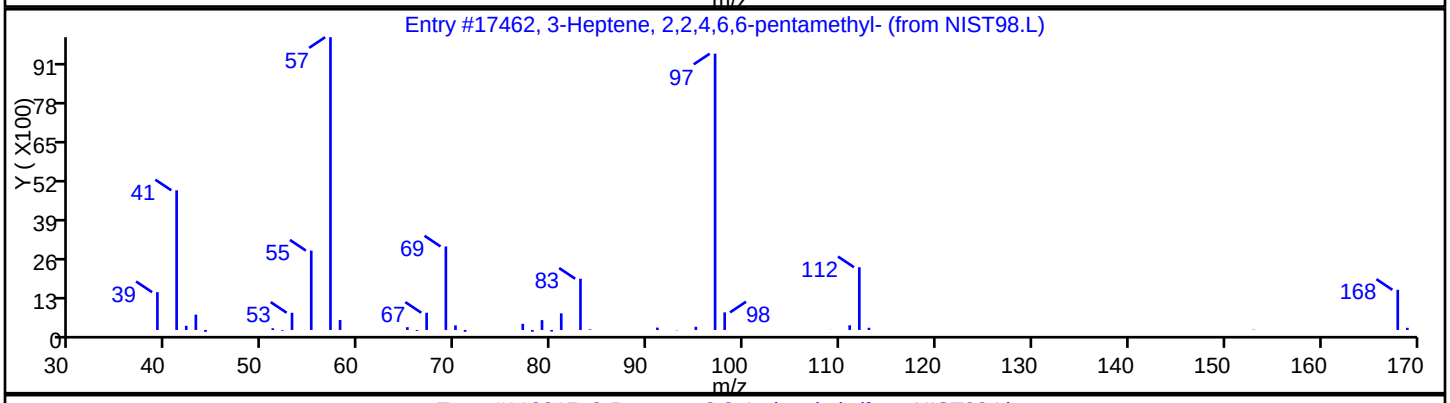
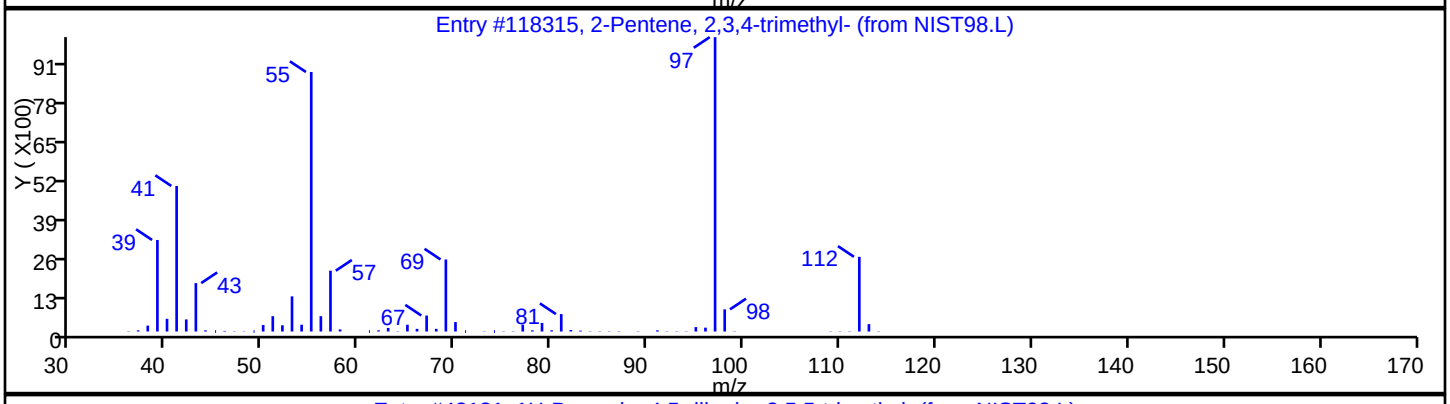
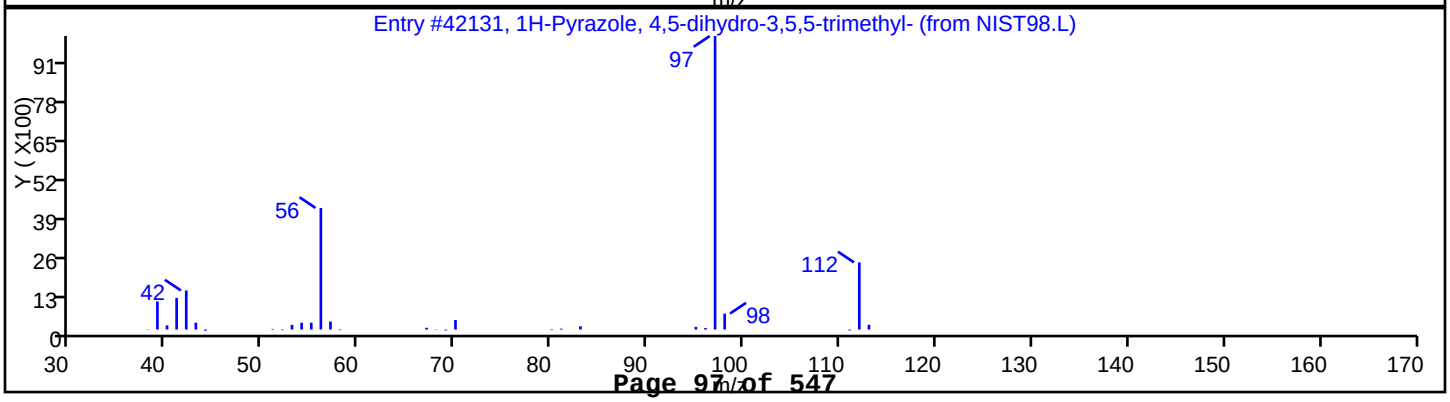
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4308.D | | |
| Injection Date: | 14-Dec-2012 02:50:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-480-6.0/8.0-XXX | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 12 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | 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 | 91 |
| 2-Pentene, 2,3,4-trimethyl- | 565-77-5 | NIST98.L | 118315 | 72 |
| 1H-Pyrazole, 4,5-dihydro-3,5,5-trimethyl | 3975-85-7 | NIST98.L | 42131 | 72 |



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TestAmerica Buffalo

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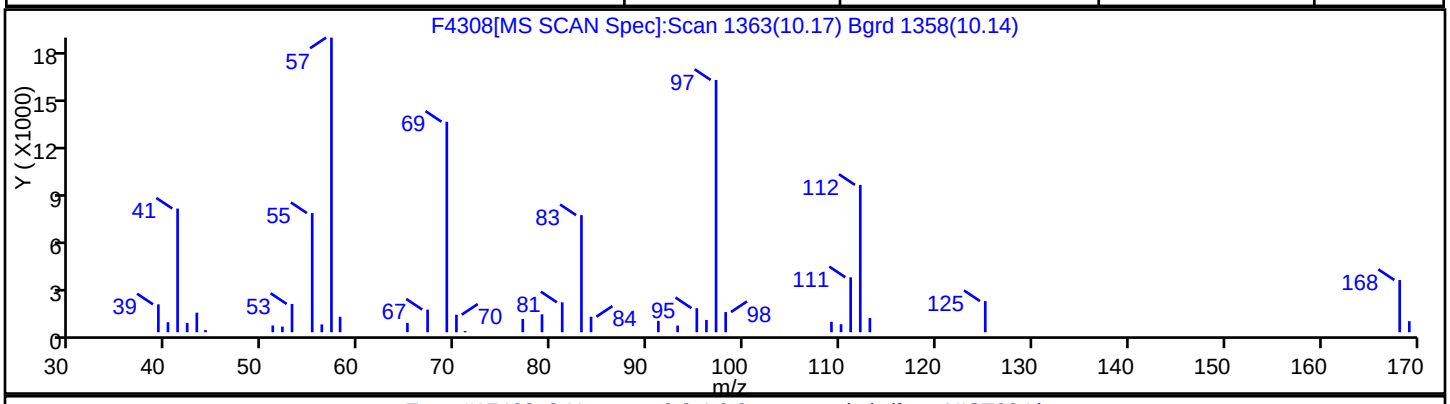
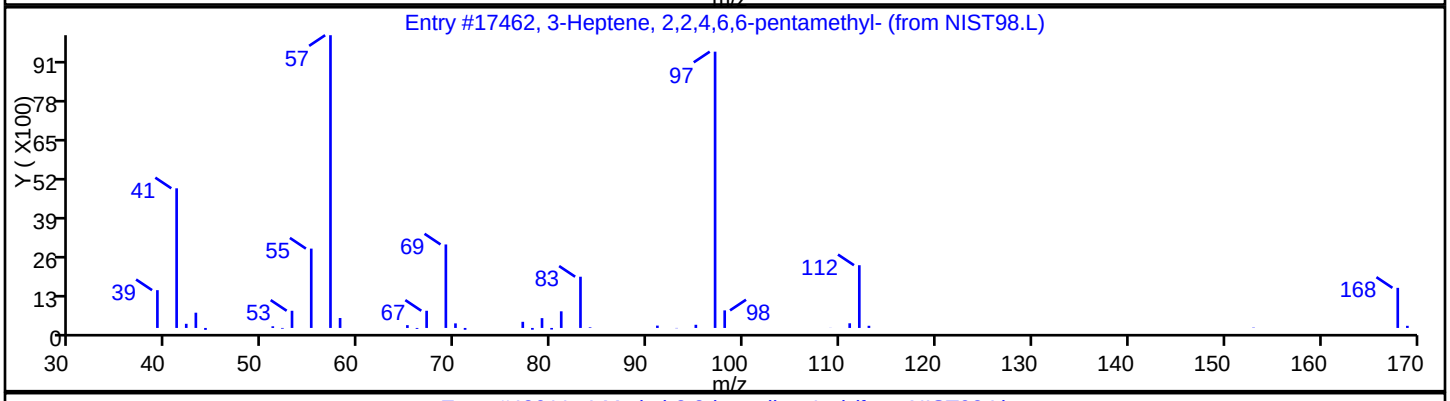
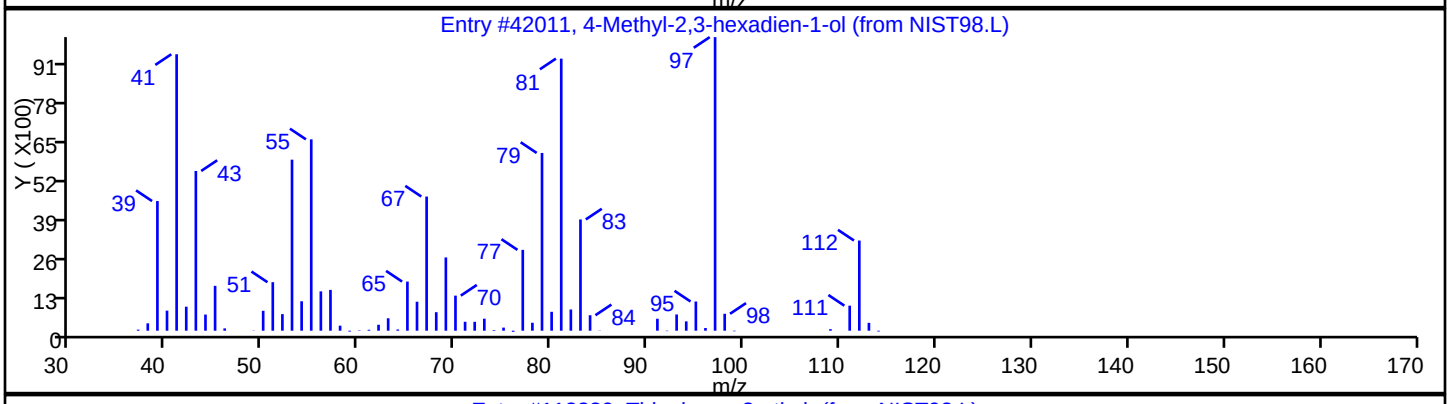
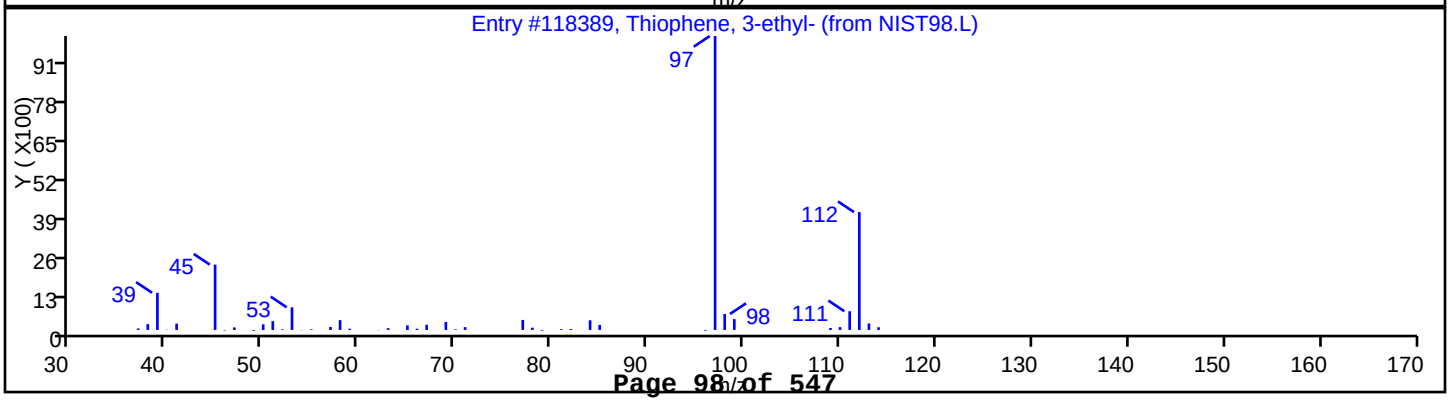
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4308.D | | |
| Injection Date: | 14-Dec-2012 02:50:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-480-6.0/8.0-XXX | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 12 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | 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 |
| 4-Methyl-2,3-hexadien-1-ol | 1000196-9-6 | NIST98.L | 42011 | 47 |
| Thiophene, 3-ethyl- | 1795-1-3 | NIST98.L | 118389 | 46 |



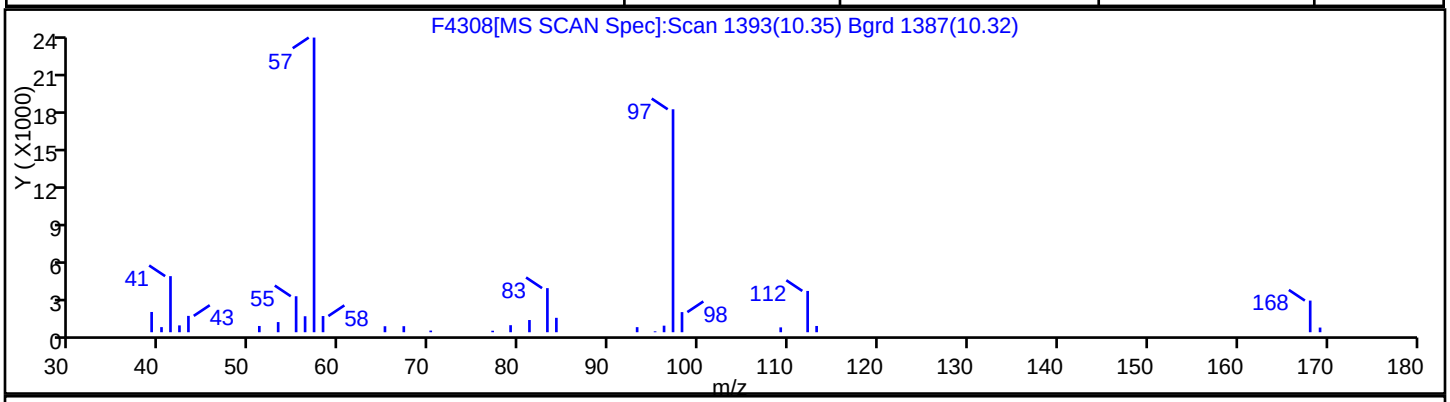



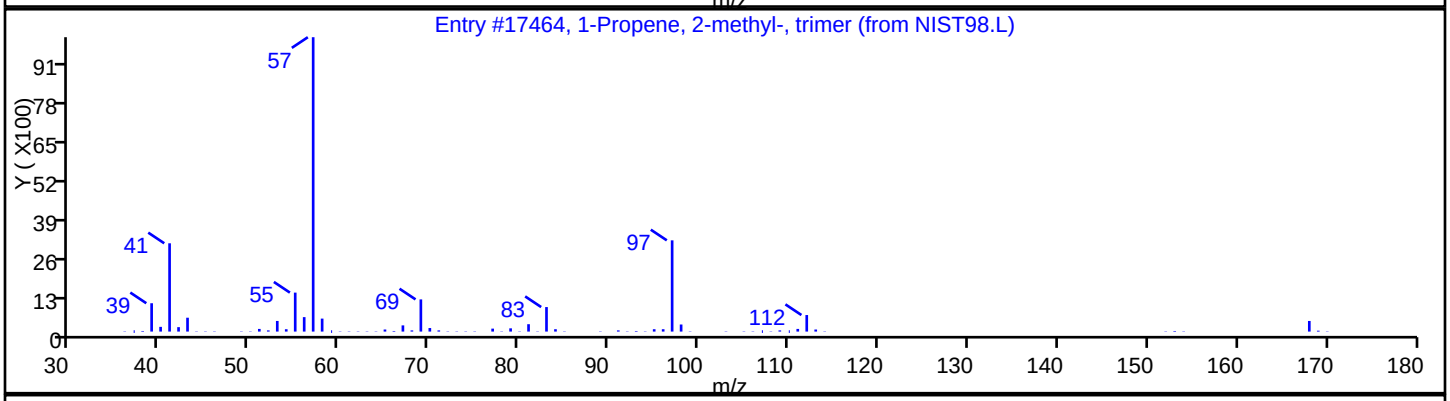
Report Date: 14-Dec-2012 08:59:33 Chrom Revision: 2.0 22-Oct-2012 16:30:48

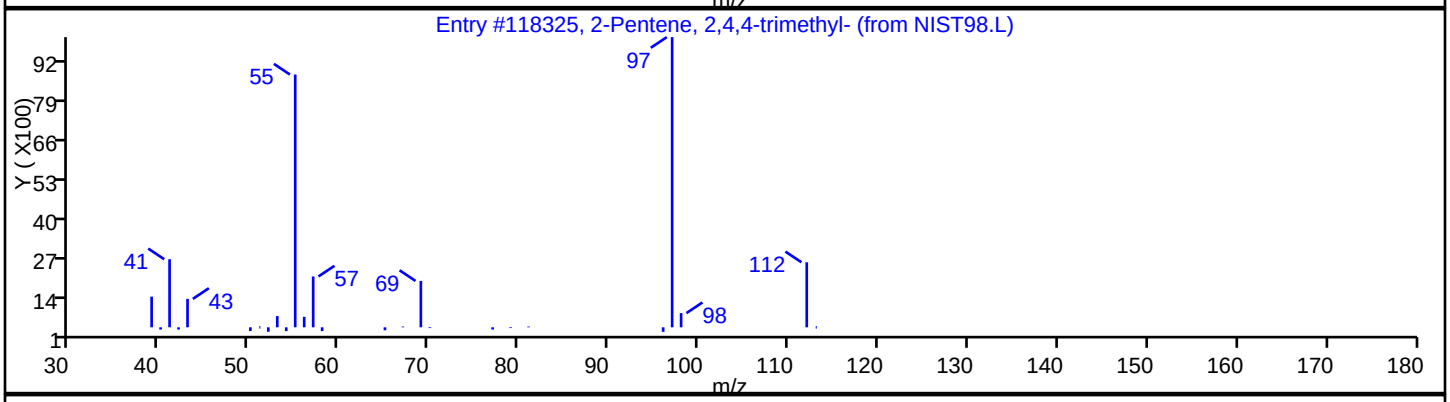
TestAmerica Buffalo

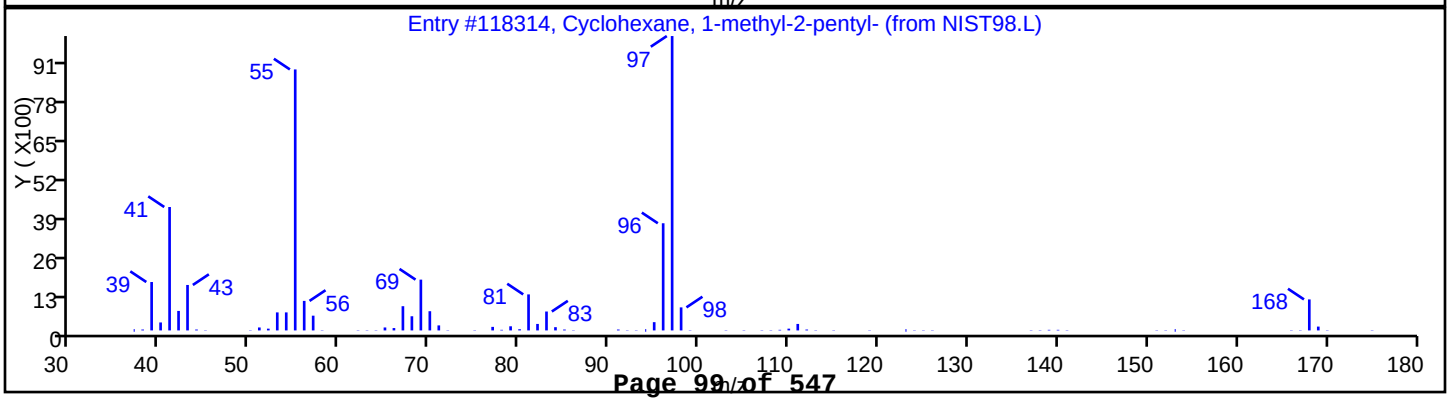
| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4308.D | | |
| Injection Date: | 14-Dec-2012 02:50:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-480-6.0/8.0-XXX | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 12 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| 1-Propene, 2-methyl-, trimer | 7756-94-7 | NIST98.L | 17464 | 87 |
| 2-Pentene, 2,4,4-trimethyl- | 107-40-4 | NIST98.L | 118325 | 58 |
| Cyclohexane, 1-methyl-2-pentyl- | 54411-1-7 | NIST98.L | 118314 | 53 |



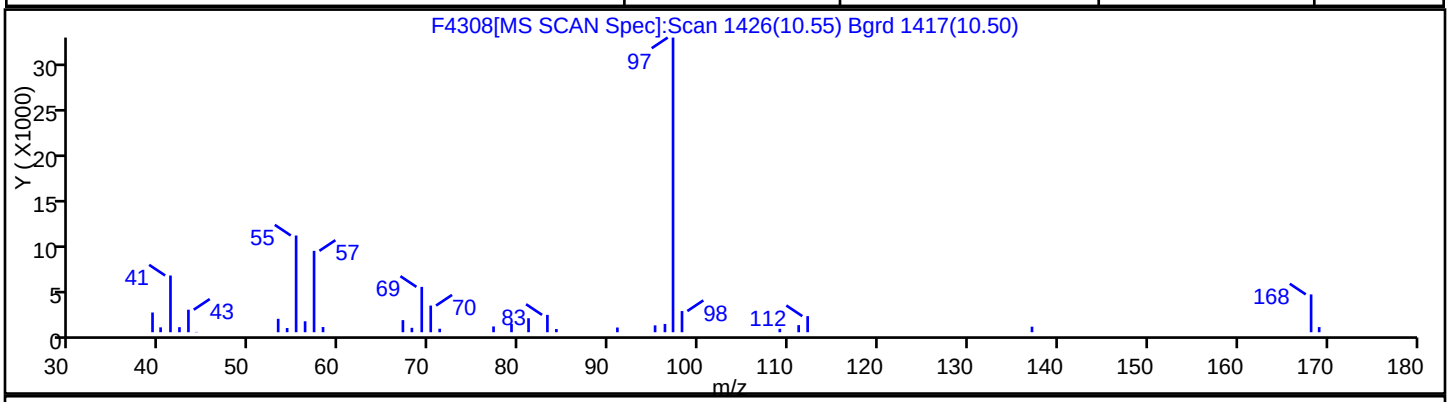



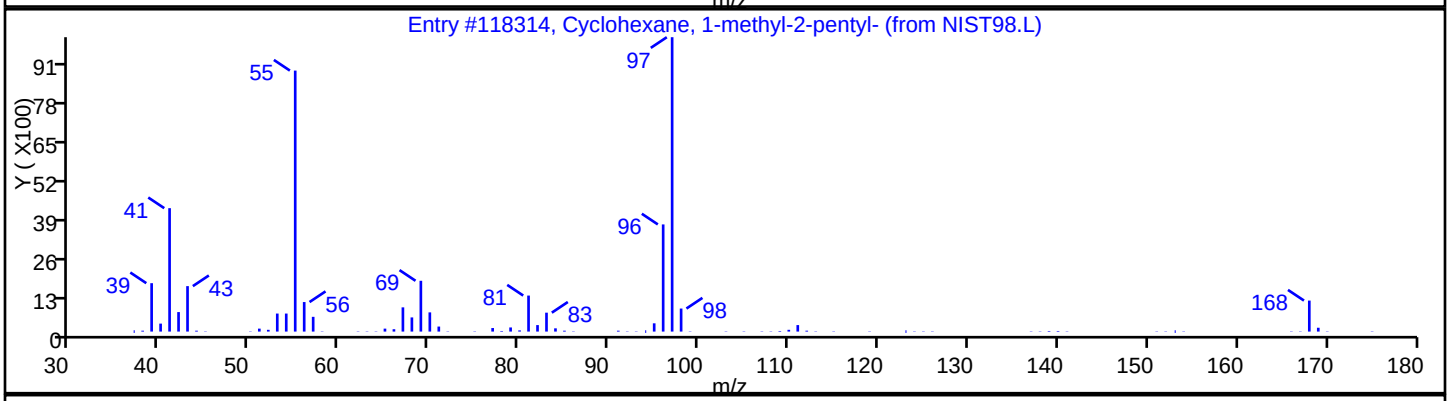
Report Date: 14-Dec-2012 08:59:33 Chrom Revision: 2.0 22-Oct-2012 16:30:48

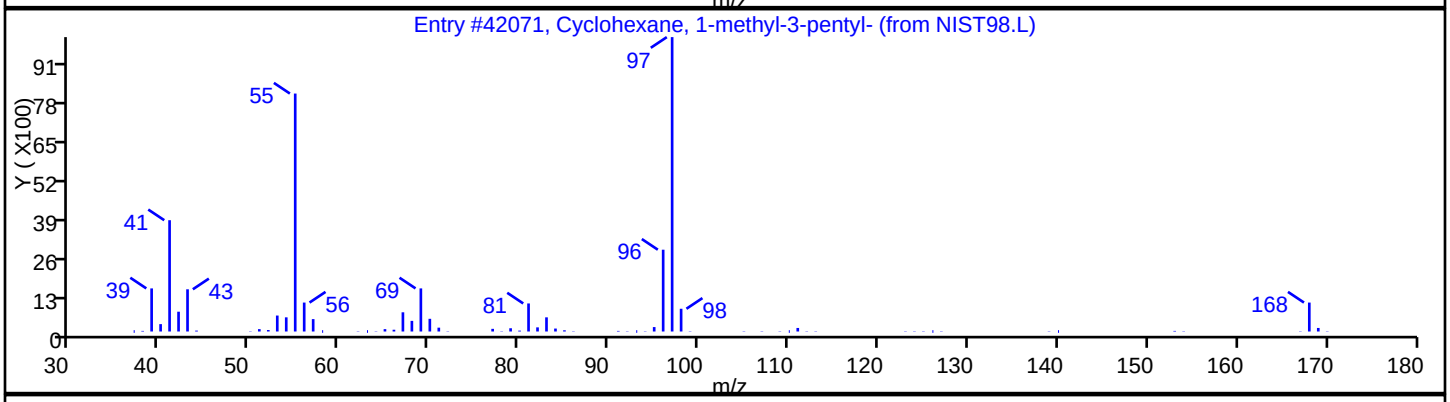
TestAmerica Buffalo

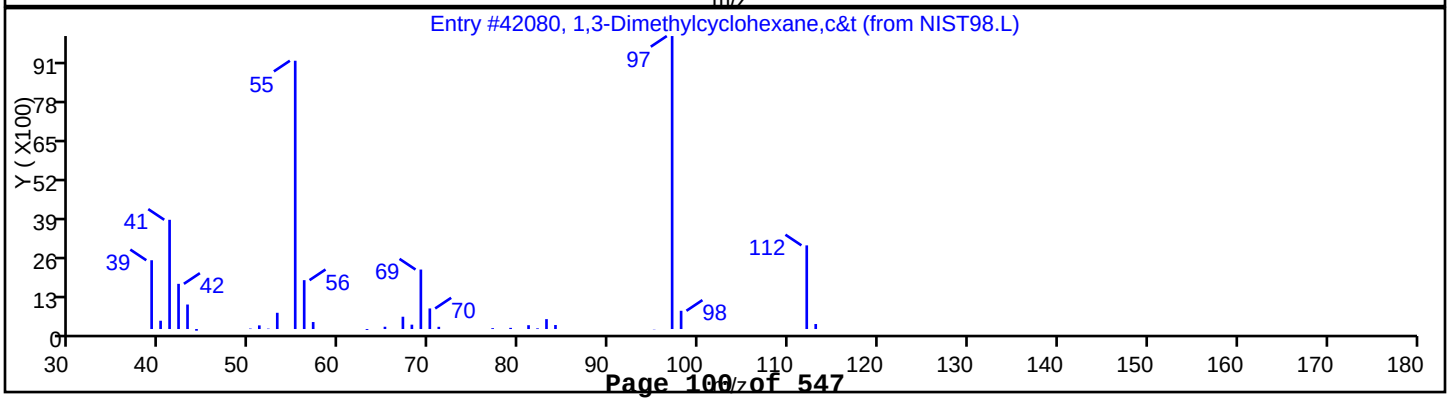
| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4308.D | | |
| Injection Date: | 14-Dec-2012 02:50:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-480-6.0/8.0-XXX | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 12 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| Cyclohexane, 1-methyl-2-pentyl- | 54411-1-7 | NIST98.L | 118314 | 72 |
| Cyclohexane, 1-methyl-3-pentyl- | 54411-2-8 | NIST98.L | 42071 | 72 |
| 1,3-Dimethylcyclohexane,c&t | 591-21-9 | NIST98.L | 42080 | 64 |



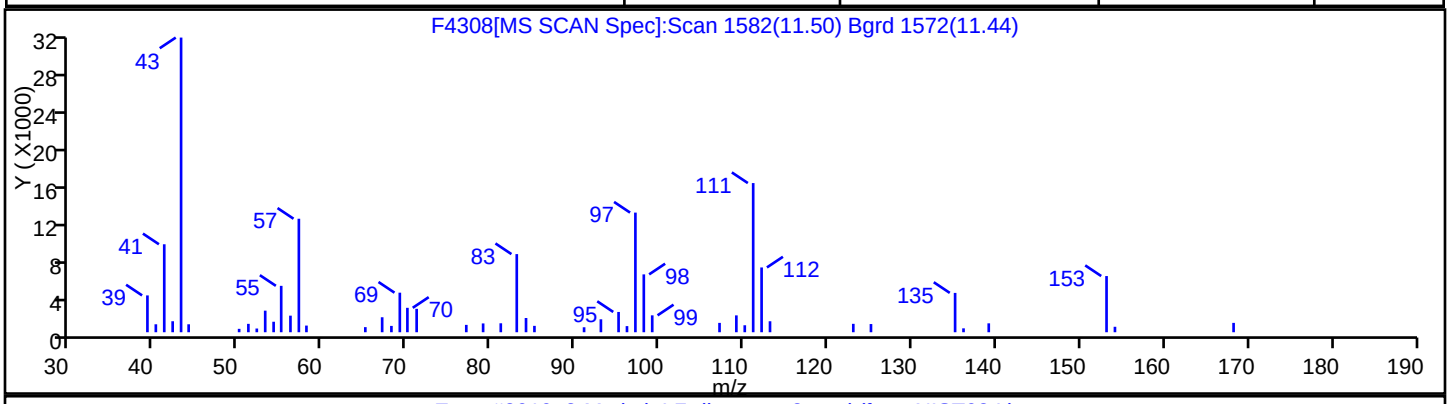



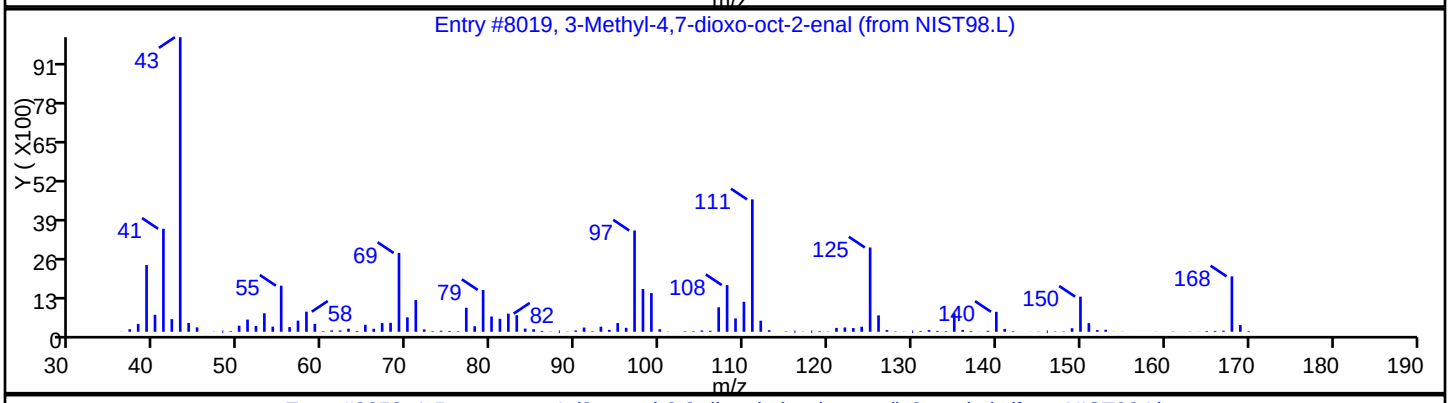
Report Date: 14-Dec-2012 08:59:33 Chrom Revision: 2.0 22-Oct-2012 16:30:48

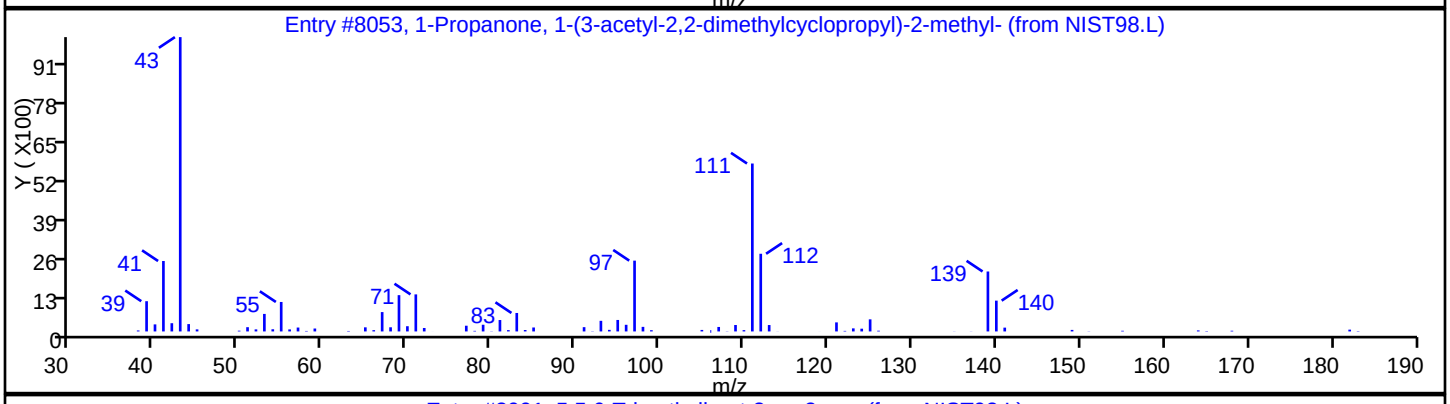
TestAmerica Buffalo

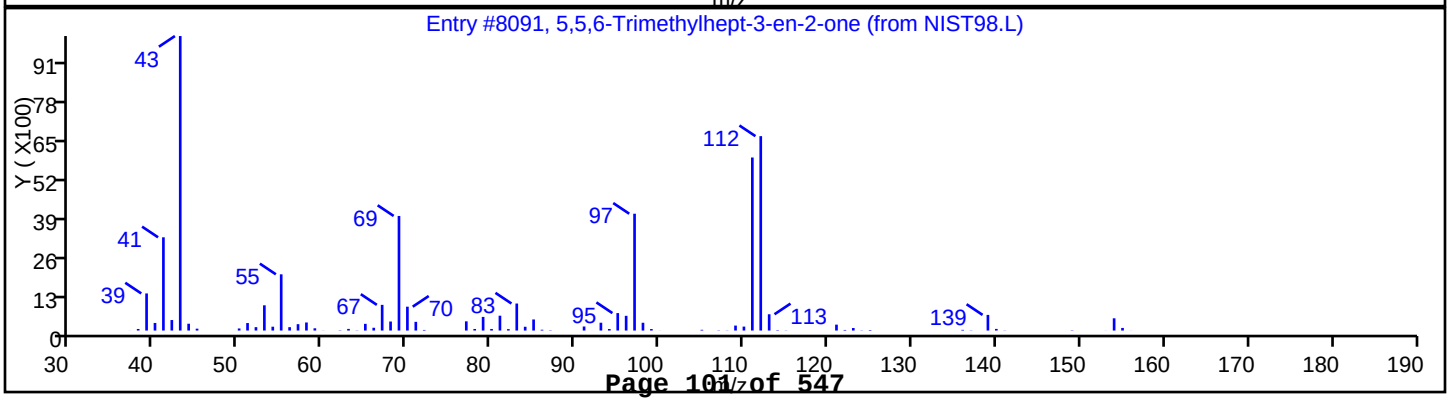
| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4308.D | | |
| Injection Date: | 14-Dec-2012 02:50:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-480-6.0/8.0-XXX | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 12 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| 3-Methyl-4,7-dioxo-oct-2-enal | 1000185-76-3 | NIST98.L | 8019 | 40 |
| 1-Propanone, 1-(3-acetyl-2,2-dimethylcyc | 77142-84-8 | NIST98.L | 8053 | 35 |
| 5,5,6-Trimethylhept-3-en-2-one | 1000190-99-6 | NIST98.L | 8091 | 35 |



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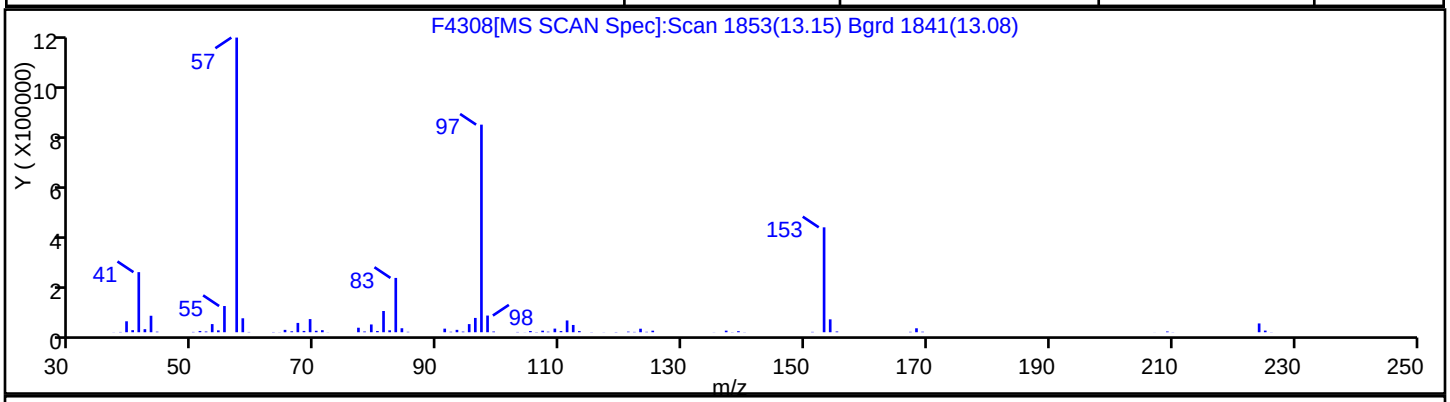
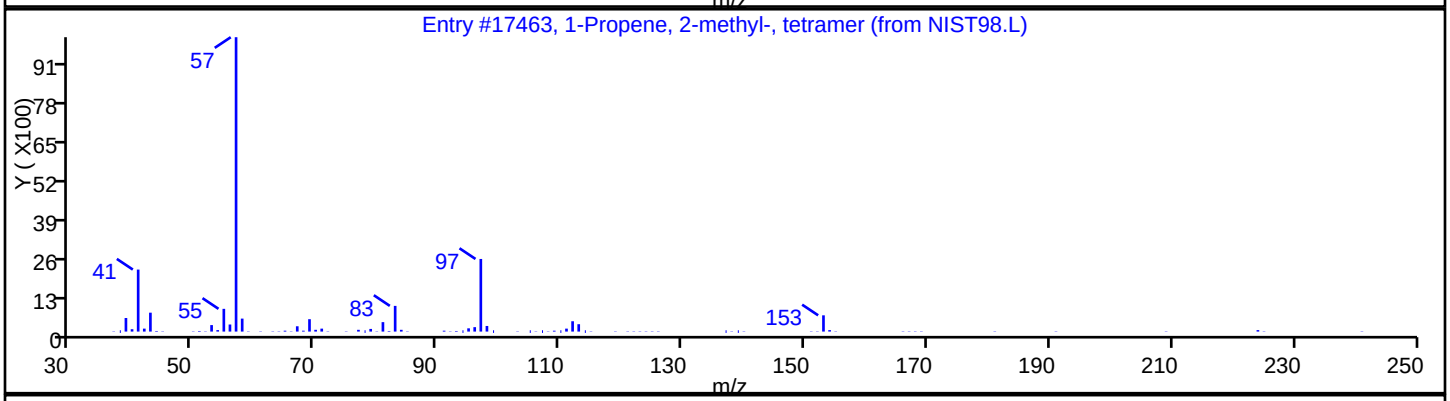
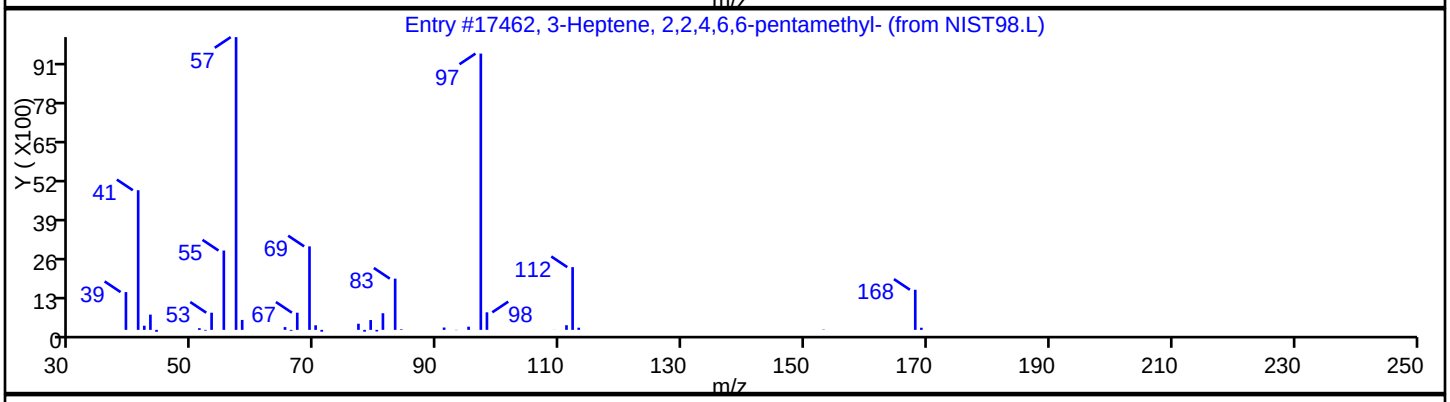
TestAmerica Buffalo

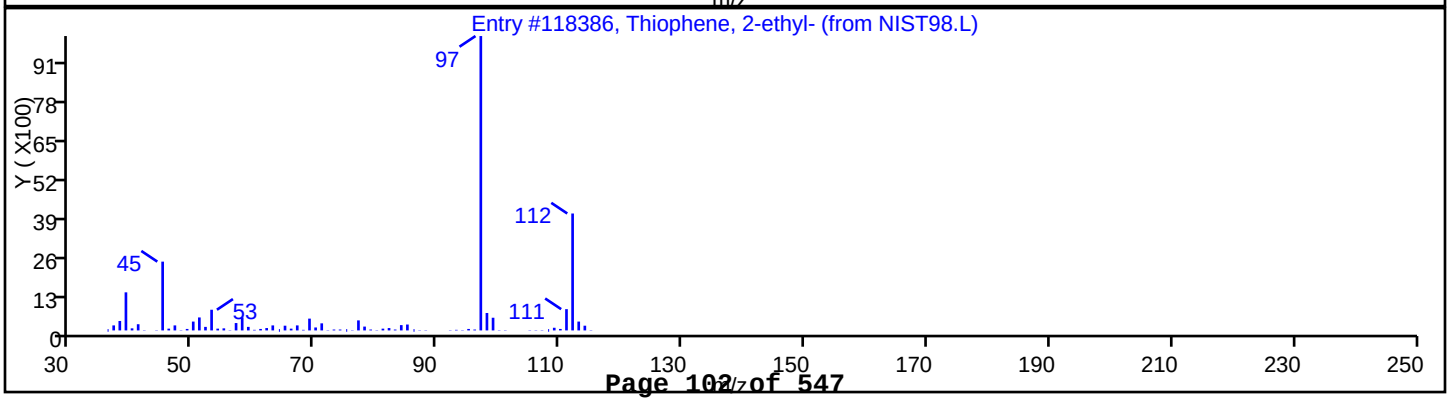
| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4308.D | | |
| Injection Date: | 14-Dec-2012 02:50:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-480-6.0/8.0-XXX | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 12 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| 1-Propene, 2-methyl-, tetramer | 15220-85-6 | NIST98.L | 17463 | 53 |
| 3-Heptene, 2,2,4,6,6-pentamethyl- | 123-48-8 | NIST98.L | 17462 | 42 |
| Thiophene, 2-ethyl- | 872-55-9 | NIST98.L | 118386 | 27 |



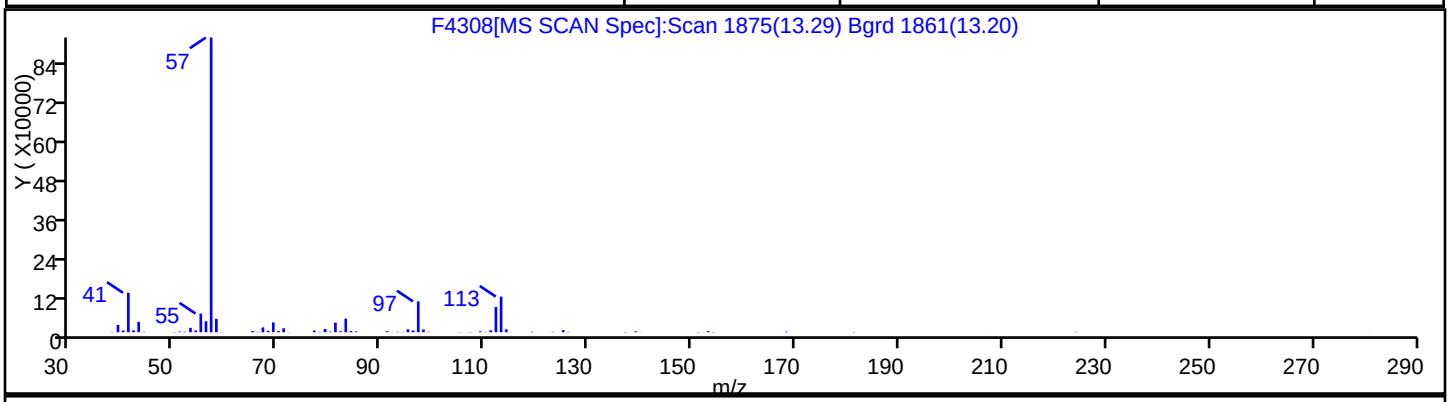



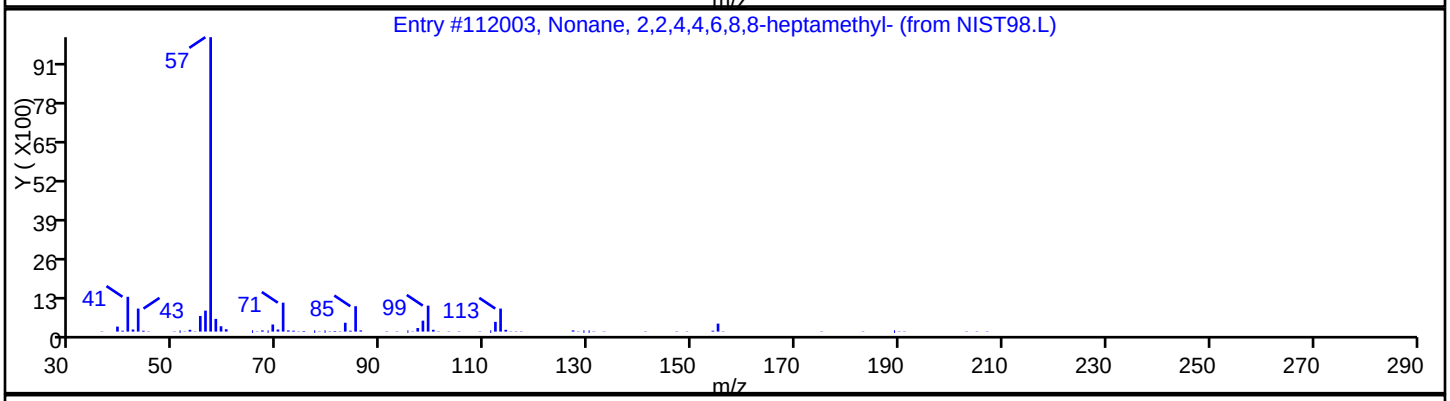
Report Date: 14-Dec-2012 08:59:33 Chrom Revision: 2.0 22-Oct-2012 16:30:48

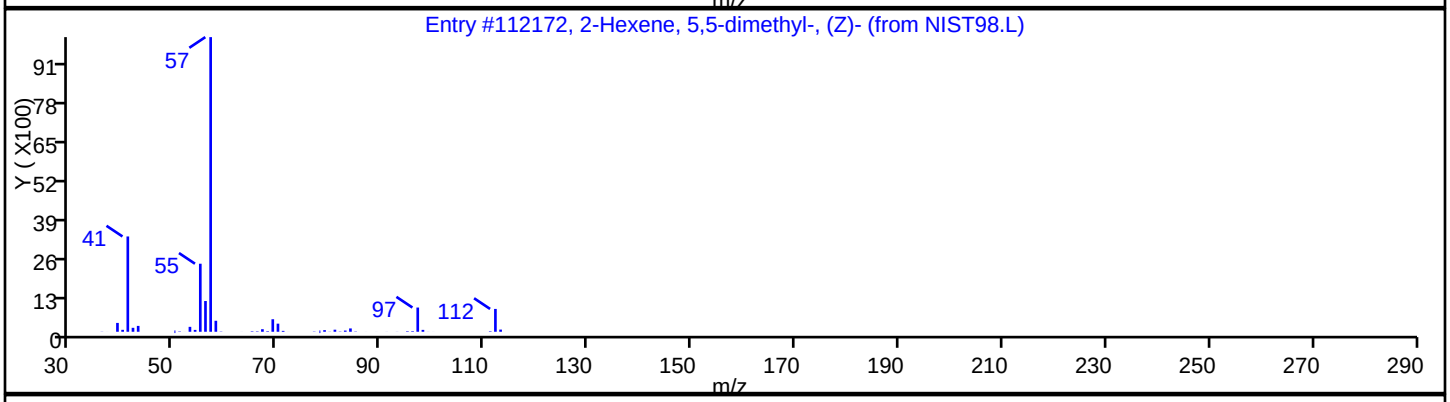
TestAmerica Buffalo

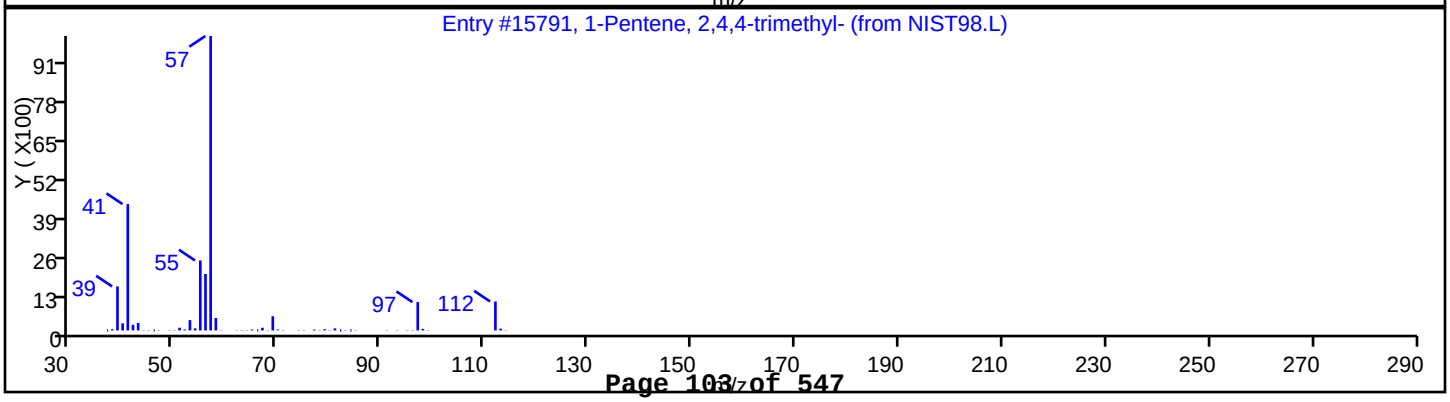
| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4308.D | | |
| Injection Date: | 14-Dec-2012 02:50:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-480-6.0/8.0-XXX | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 12 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| Nonane, 2,2,4,4,6,8,8-heptamethyl- | 4390-4-9 | NIST98.L | 112003 | 45 |
| 2-Hexene, 5,5-dimethyl-, (Z)- | 39761-61-0 | NIST98.L | 112172 | 43 |
| 1-Pentene, 2,4,4-trimethyl- | 107-39-1 | NIST98.L | 15791 | 37 |



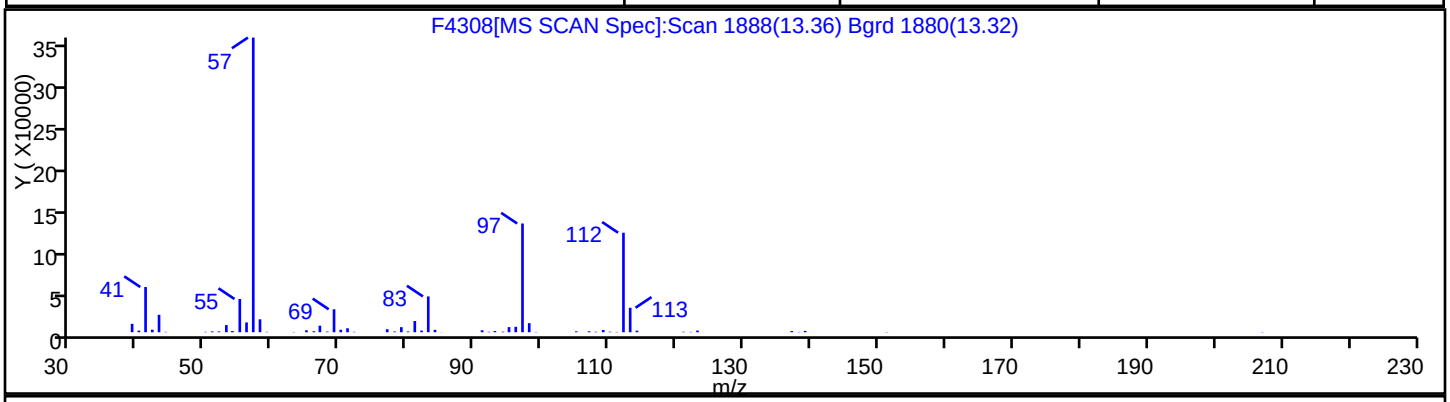



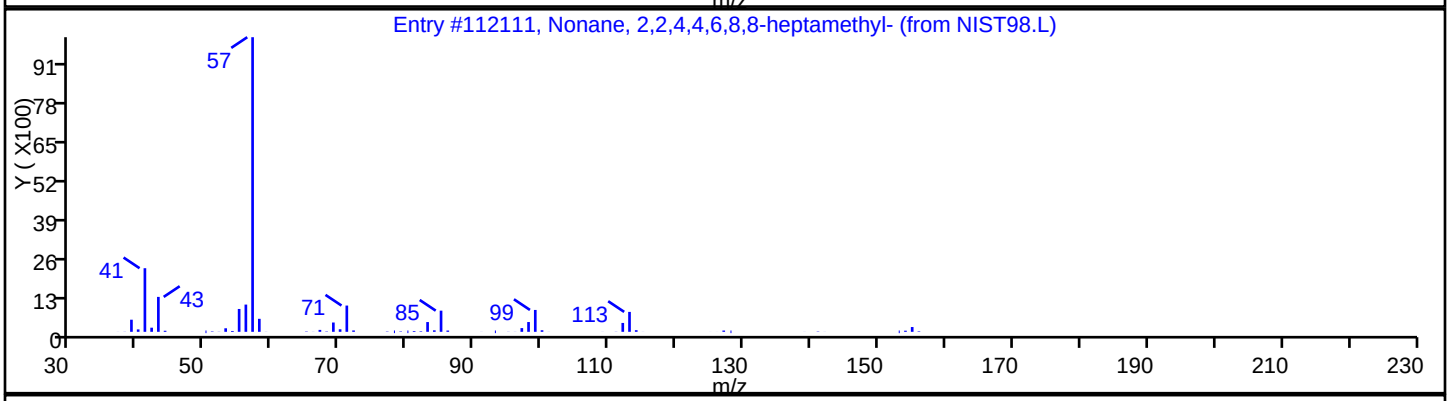
Report Date: 14-Dec-2012 08:59:33 Chrom Revision: 2.0 22-Oct-2012 16:30:48

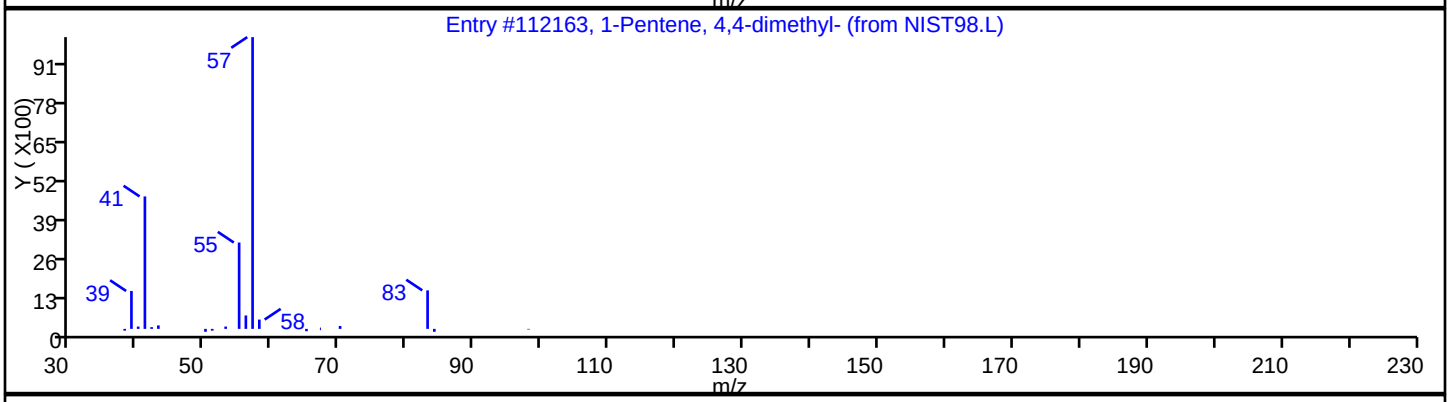
TestAmerica Buffalo

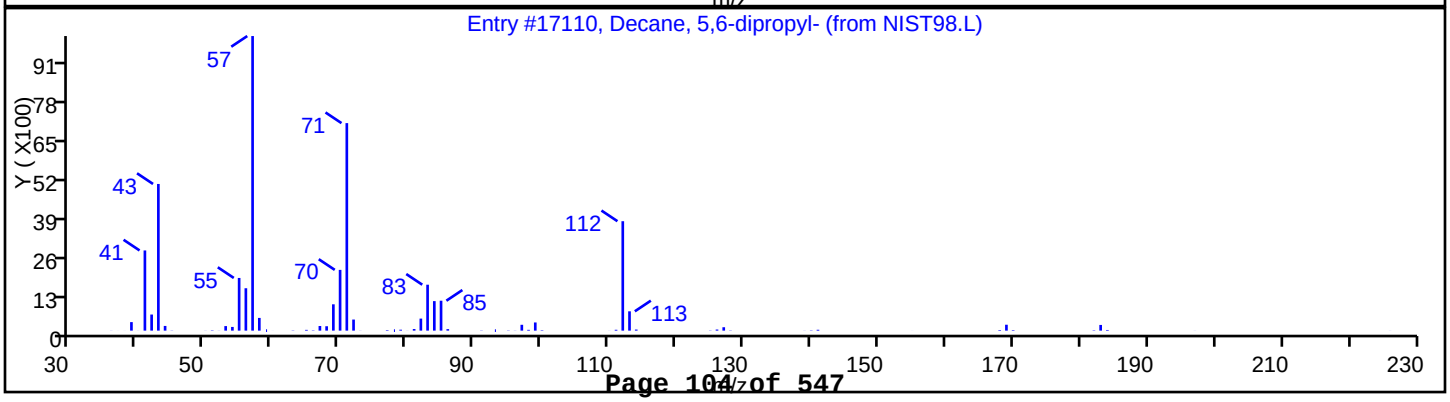
| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4308.D | | |
| Injection Date: | 14-Dec-2012 02:50:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-480-6.0/8.0-XXX | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 12 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| Nonane, 2,2,4,4,6,8,8-heptamethyl- | 4390-4-9 | NIST98.L | 112111 | 12 |
| 1-Pentene, 4,4-dimethyl- | 762-62-9 | NIST98.L | 112163 | 10 |
| Decane, 5,6-dipropyl- | 119209-20-0 | NIST98.L | 17110 | 9 |



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-29976-1
SDG No.:
Client Sample ID: OC-SB-484-5.5/7.5-XXX
Lab Sample ID: 480-29976-6
Matrix: Solid
Lab File ID: F4309.D
Analysis Method: 8260C
Date Collected: 12/11/2012 10:40
Sample wt/vol: 6.6(g)
Date Analyzed: 12/14/2012 03:16
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture: 12.3
Level: (low/med) Low
Analysis Batch No.: 95715
Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 107-39-1 | 2,4,4-Trimethyl-1-pentene | 1.6 | J | 4.3 | 0.37 |
| 107-40-4 | 2,4,4-Trimethyl-2-pentene | ND | | 4.3 | 0.46 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 2037-26-5 | Toluene-d8 (Surr) | 87 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 87 | | 70-130 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 86 | | 70-130 |

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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Client Sample ID: OC-SB-484-5.5/7.5-XXX Lab Sample ID: 480-29976-6

Matrix: Solid Lab File ID: F4309.D

Analysis Method: 8260C Date Collected: 12/11/2012 10:40

Sample wt/vol: 6.6(g) Date Analyzed: 12/14/2012 03:16

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: 12.3 Level: (low/med) Low

Analysis Batch No.: 95715 Units: ug/Kg

Number TICs Found: 10 TIC Result Total: 1223

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| 141-70-8 | Heptane, 2,2,6,6-tetramethyl-4-methylene | 10.03 | 130 | T J N |
| 123-48-8 | 3-Heptene, 2,2,4,6,6-pentamethyl- | 10.12 | 210 | T J N |
| 110-44-1 | Sorbic Acid | 10.18 | 86 | T J N |
| 1000160-38-7 | Cyclooctane, tetradecyl- | 10.23 | 49 | T J N |
| 7756-94-7 | 1-Propene, 2-methyl-, trimer | 10.35 | 43 | T J N |
| 54411-1-7 | Cyclohexane, 1-methyl-2-pentyl- | 10.46 | 36 | T J N |
| 54411-2-8 | Cyclohexane, 1-methyl-3-pentyl- | 10.55 | 79 | T J N |
| 1000215-44-0 | Cis-1-methyl-3-n-nonylcyclohexane | 13.16 | 250 | T J N |
| 15220-85-6 | 1-Propene, 2-methyl-, tetramer | 13.29 | 180 | T J N |
| 1000145-59-3 | Cyclohexene, 1-(1,1-dimethylethoxy)-2-me | 13.37 | 160 | T J N |

Report Date: 14-Dec-2012 08:59:32 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4309.D | | |
| Lims ID: | 480-29976-C-6-A | Client ID: | OC-SB-484-5.5/7.5-XXX |
| Inject. Date: | 14-Dec-2012 03:16:30 | Dil. Factor: | 1.0000 |
| Sample Type: | Client | | |
| Sample ID: | 480-29976-C-6-A | | |
| Misc. Info.: | 480-0017526-013 =480-0017526-013 | | |
| Operator: | CDC | Instrument ID: | HP5973F |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 5 |
| Lims Batch ID: | 95715 | Lims Sample ID: | 13 |
| Detector: | MS SCAN | | |
| Method: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F-8260 SOIL.m | | |
| Last Update: | 14-Dec-2012 08:59:22 | Calib Date: | 11-Dec-2012 23:36:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4239.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK015 | | |

First Level Reviewer: ByrnesJ Date: 14-Dec-2012 08:52:12

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 5.608 | 5.608 | 0.0 | 93 | 345039 | 50.0 | |
| * 2 Chlorobenzene-d5 | 82 | 8.382 | 8.382 | 0.0 | 80 | 149428 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 10.700 | 10.700 | 0.0 | 92 | 173694 | 50.0 | |
| $ 4 1,2-Dichloroethane-d4 (Surr) | 67 | 5.304 | 5.304 | 0.0 | 99 | 54357 | 43.4 | |
| $ 5 Toluene-d8 (Surr) | 98 | 6.928 | 6.928 | 0.0 | 82 | 392691 | 43.6 | |
| $ 6 4-Bromofluorobenzene (Surr) | 174 | 9.599 | 9.599 | 0.0 | 93 | 136382 | 42.9 | |
| 10 Dichlorodifluoromethane | 85 | | 1.995 | | | | | |
| 12 Chloromethane | 50 | | 2.147 | | | | | |
| 13 Vinyl chloride | 62 | | 2.268 | | | | | |
| 14 Bromomethane | 94 | | 2.548 | | | | | |
| 15 Chloroethane | 64 | | 2.621 | | | | | |
| 17 Trichlorofluoromethane | 101 | | 2.846 | | | | | |
| 18 Ethyl ether | 59 | | 3.035 | | | | | |
| 21 1,1,2-Trichloro-1,2,2-trifluoroe | 101 | | 3.224 | | | | | |
| 22 1,1-Dichloroethene | 96 | | 3.254 | | | | | |
| 23 Acetone | 43 | | 3.303 | | | | | 9 |
| 26 Carbon disulfide | 76 | | 3.467 | | | | | |
| 27 Methyl acetate | 43 | | 3.528 | | | | | |
| 30 Methylene Chloride | 84 | 3.649 | 3.643 | 0.006 | 57 | 4591 | 1.54 | |
| 32 Methyl tert-butyl ether | 73 | | 3.801 | | | | | |
| 34 trans-1,2-Dichloroethene | 96 | | 3.832 | | | | | |
| 36 Isopropyl ether | 45 | | 4.130 | | | | | |
| 39 1,1-Dichloroethane | 63 | | 4.173 | | | | | |
| 41 Tert-butyl ethyl ether | 59 | | 4.416 | | | | | |
| 43 2-Butanone (MEK) | 43 | | 4.617 | | | | | |
| 44 2,2-Dichloropropane | 77 | | 4.623 | | | | | |
| 45 cis-1,2-Dichloroethene | 96 | | 4.629 | | | | | |
| 48 Chlorobromomethane | 128 | | 4.842 | | | | | |
| 49 Tetrahydrofuran | 42 | | 4.854 | | | | | 9 |
| 50 Chloroform | 83 | | 4.872 | | | | | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 51 1,1,1-Trichloroethane | 97 | | 5.018 | | | | | |
| 52 Cyclohexane | 56 | | 5.049 | | | | | |
| 54 1,1-Dichloropropene | 75 | | 5.140 | | | | | |
| 55 Carbon tetrachloride | 117 | | 5.146 | | | | | |
| 57 Benzene | 78 | | 5.328 | | | | | |
| 56 Tert-amyl methyl ether | 73 | | 5.347 | | | | | |
| 58 1,2-Dichloroethane | 62 | | 5.365 | | | | | |
| 136 2,4,4-Trimethyl-1-pentene | 55 | 5.730 | 5.736 | -0.006 | 0 | 4733 | 1.84 | |
| 62 Trichloroethene | 95 | | 5.852 | | | | | |
| 135 2,4,4-Trimethyl-2-pentene | 97 | | 5.918 | | | | | 1 |
| 64 Methylcyclohexane | 83 | | 5.985 | | | | | |
| 65 1,2-Dichloropropane | 63 | | 6.077 | | | | | |
| 66 1,4-Dioxane | 88 | | 6.174 | | | | | |
| 67 Dibromomethane | 93 | | 6.211 | | | | | |
| 68 Dichlorobromomethane | 83 | | 6.320 | | | | | |
| 72 cis-1,3-Dichloropropene | 75 | | 6.697 | | | | | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | | 6.801 | | | | | 9 |
| 74 Toluene | 92 | | 6.995 | | | | | 9 |
| 77 trans-1,3-Dichloropropene | 75 | | 7.214 | | | | | |
| 79 1,1,2-Trichloroethane | 83 | | 7.415 | | | | | |
| 81 Tetrachloroethene | 166 | | 7.519 | | | | | |
| 82 1,3-Dichloropropane | 76 | | 7.585 | | | | | |
| 80 2-Hexanone | 43 | | 7.592 | | | | | |
| 83 Chlorodibromomethane | 129 | | 7.829 | | | | | |
| 84 Ethylene Dibromide | 107 | | 7.957 | | | | | |
| 87 Chlorobenzene | 112 | | 8.413 | | | | | |
| 88 Ethylbenzene | 91 | | 8.474 | | | | | |
| 89 1,1,1,2-Tetrachloroethane | 131 | | 8.492 | | | | | |
| 90 m-Xylene & p-Xylene | 106 | | 8.589 | | | | | 9 |
| 91 o-Xylene | 106 | | 9.021 | | | | | |
| 92 Styrene | 104 | | 9.046 | | | | | |
| 95 Bromoform | 173 | | 9.319 | | | | | |
| 94 Isopropylbenzene | 105 | | 9.386 | | | | | |
| 97 1,1,2,2-Tetrachloroethane | 83 | | 9.757 | | | | | |
| 101 Bromobenzene | 156 | | 9.769 | | | | | |
| 99 N-Propylbenzene | 91 | | 9.800 | | | | | 9 |
| 100 1,2,3-Trichloropropane | 110 | | 9.812 | | | | | 9 |
| 103 2-Chlorotoluene | 126 | | 9.928 | | | | | 9 |
| 102 1,3,5-Trimethylbenzene | 105 | | 9.964 | | | | | |
| 105 4-Chlorotoluene | 126 | | 10.031 | | | | | 9 |
| 106 tert-Butylbenzene | 134 | | 10.281 | | | | | |
| 107 1,2,4-Trimethylbenzene | 105 | | 10.329 | | | | | |
| 109 sec-Butylbenzene | 105 | | 10.481 | | | | | 9 |
| 110 4-Isopropyltoluene | 119 | | 10.603 | | | | | 9 |
| 111 1,3-Dichlorobenzene | 146 | | 10.639 | | | | | 9 |
| 113 1,4-Dichlorobenzene | 146 | | 10.725 | | | | | 9 |
| 115 n-Butylbenzene | 91 | | 10.974 | | | | | 9 |
| 116 1,2-Dichlorobenzene | 146 | | 11.065 | | | | | 9 |
| 117 1,2-Dibromo-3-Chloropropane | 75 | | 11.741 | | | | | |
| 119 1,2,4-Trichlorobenzene | 180 | | 12.385 | | | | | |
| 120 Hexachlorobutadiene | 225 | | 12.483 | | | | | 9 |
| 121 Naphthalene | 128 | | 12.623 | | | | | 9 |

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

QC Flag Legend

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

TestAmerica Buffalo
Tentatively Identified Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4309.D | | |
| Lims ID: | 480-29976-C-6-A | Client ID: | OC-SB-484-5.5/7.5-XXX |
| Inject. Date: | 14-Dec-2012 03:16:30 | Dil. Factor: | 1.0000 |
| Sample Type: | Client | | |
| Sample ID: | 480-29976-C-6-A | | |
| Misc. Info.: | 480-0017526-013 =480-0017526-013 | | |
| Operator: | CDC | Instrument ID: | HP5973F |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 5 |
| Lims Batch ID: | 95715 | Lims Sample ID: | 13 |
| Detector: | MS SCAN | | |
| Method: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F-8260 SOIL.m | | |
| Last Update: | 14-Dec-2012 08:59:22 | Calib Date: | 11-Dec-2012 23:36:30 |
| Tic RT Window: | 1.500 -0.000 | Response: | area |
| Quant By: | Nearest ISTD | Quant LOD: | 10.00000 |
| MS Library: | \\Bufchrom\ChromData\Database\NIST98.L | | |
| Min. Match: | 0 | | |
| Process Host: | XAWRK015 | | |
| First Level Reviewer: ByrnesJ | | Date: | 14-Dec-2012 08:52:12 |

Tentative Identified Compound Results

| RT | Response | Amount ug/kg | Quant Cpnd | Qual | Lib Entry | Flags |
|---|---|---|---|---|---|---|
| 141-70-8 Heptane, 2,2,6,6-tetramethyl-4-methylene | | | | | | |
| 10.025 | 24300996 | 150.9 | 3 | 68 | 15794 | |
| 123-48-8 3-Heptene, 2,2,4,6,6-pentamethyl- | | | | | | |
| 10.116 | 38424202 | 238.6 | 3 | 95 | 17462 | |
| 110-44-1 Sorbic Acid | | | | | | |
| 10.177 | 16080299 | 99.8 | 3 | 38 | 42323 | |
| 1000160-38-7 Cyclooctane, tetradecyl- | | | | | | |
| 10.226 | 9144780 | 56.8 | 3 | 39 | 50281 | |
| 7756-94-7 1-Propene, 2-methyl-, trimer | | | | | | |
| 10.353 | 7993215 | 49.6 | 3 | 87 | 17464 | |
| 54411-1-7 Cyclohexane, 1-methyl-2-pentyl- | | | | | | |
| 10.463 | 6675736 | 41.4 | 3 | 56 | 42069 | |
| 54411-2-8 Cyclohexane, 1-methyl-3-pentyl- | | | | | | |
| 10.554 | 14733406 | 91.5 | 3 | 90 | 42071 | |
| 1000215-44-0 Cis-1-methyl-3-n-nonylcyclohexane | | | | | | |
| 13.164 | 47370065 | 294.1 | 3 | 53 | 42128 | |
| 15220-85-6 1-Propene, 2-methyl-, tetramer | | | | | | |
| 13.292 | 34160906 | 212.1 | 3 | 50 | 17463 | |
| 1000145-59-3 Cyclohexene, 1-(1,1-dimethylethoxy)-2-me | | | | | | |
| 13.365 | 30423660 | 188.9 | 3 | 38 | 50751 | |

Quantitation Compounds

| Compound | RT | Response | Amount ug/kg |
|---|---|---|---|

Report Date: 14-Dec-2012 08:59:32 Chrom Revision: 2.0 22-Oct-2012 16:30:48
Data File: \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4309.D

| Compound | RT | Response | Amount ug/kg |
|---|---|---|---|
| * 3 1,4-Dichlorobenzene-d4 | 10.731 | 8053029 | 50.0 |

QC Flag Legend

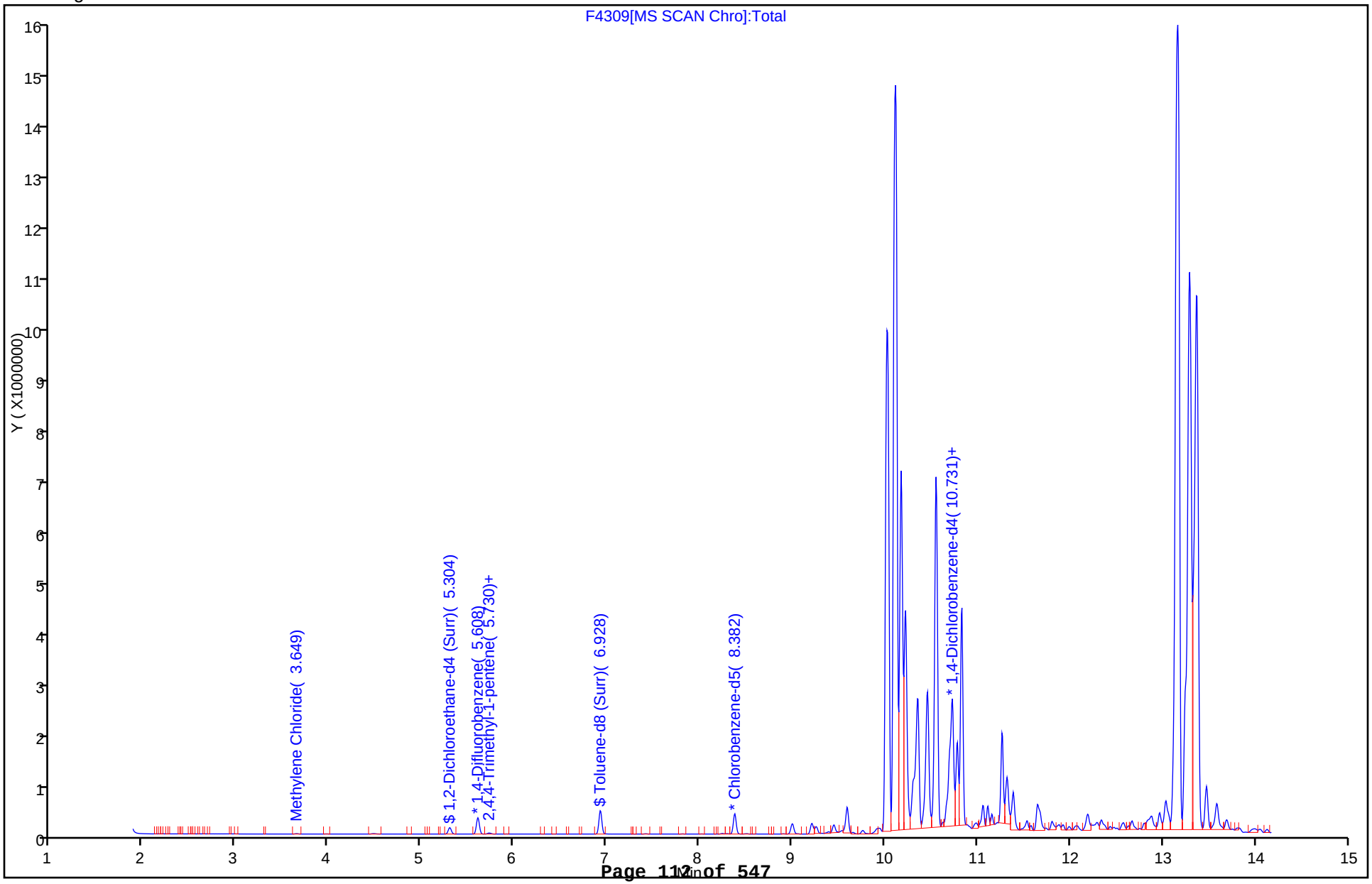
Processing Flags

Report Date: 14-Dec-2012 08:59:32 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4309.D | | |
| Injection Date: | 14-Dec-2012 03:16:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-484-5.5/7.5-XXX | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 13 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:

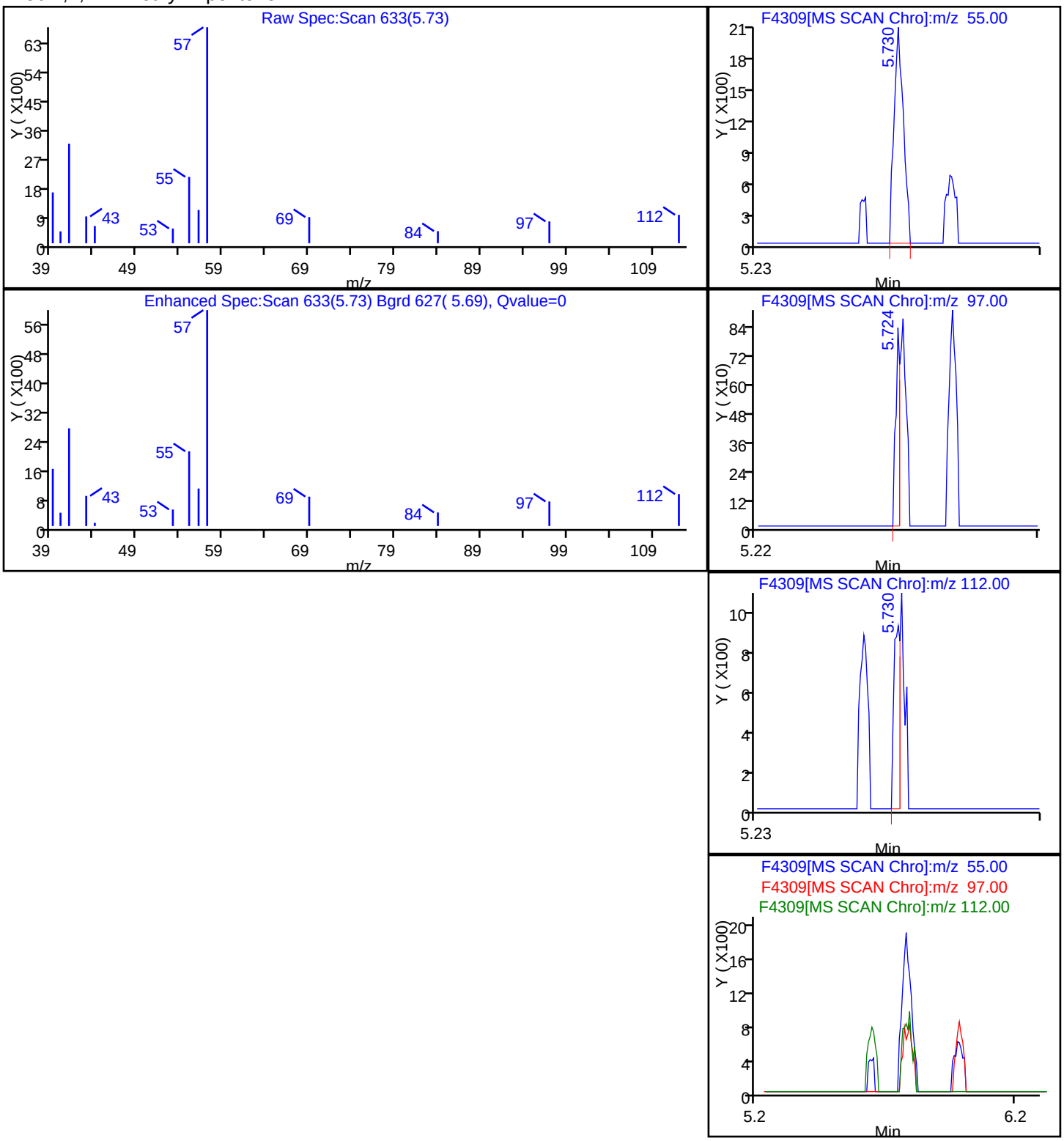


Report Date: 14-Dec-2012 08:59:32 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4309.D | | |
| Injection Date: | 14-Dec-2012 03:16:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-484-5.5/7.5-XXX | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 13 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

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



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TestAmerica Buffalo

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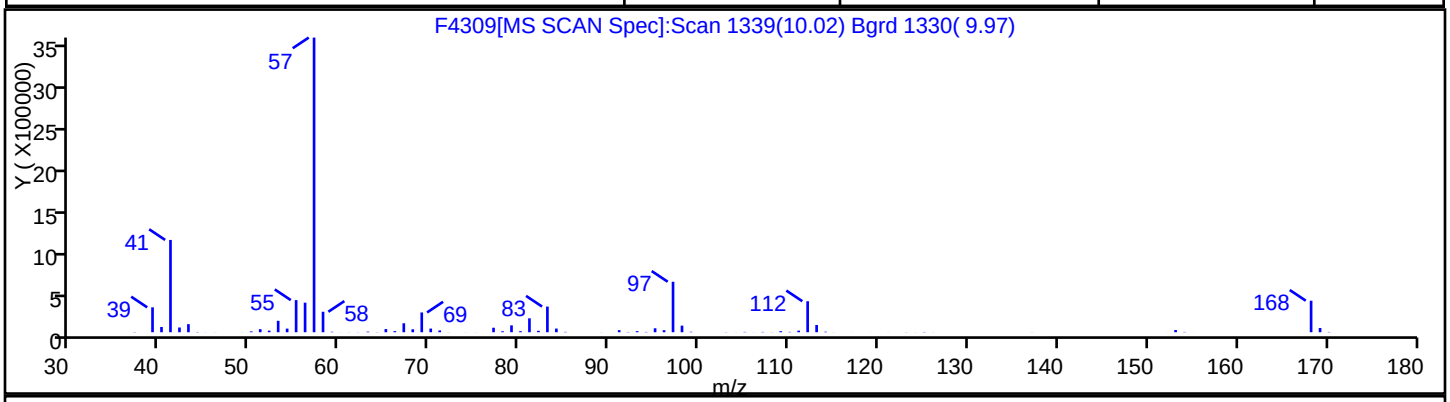
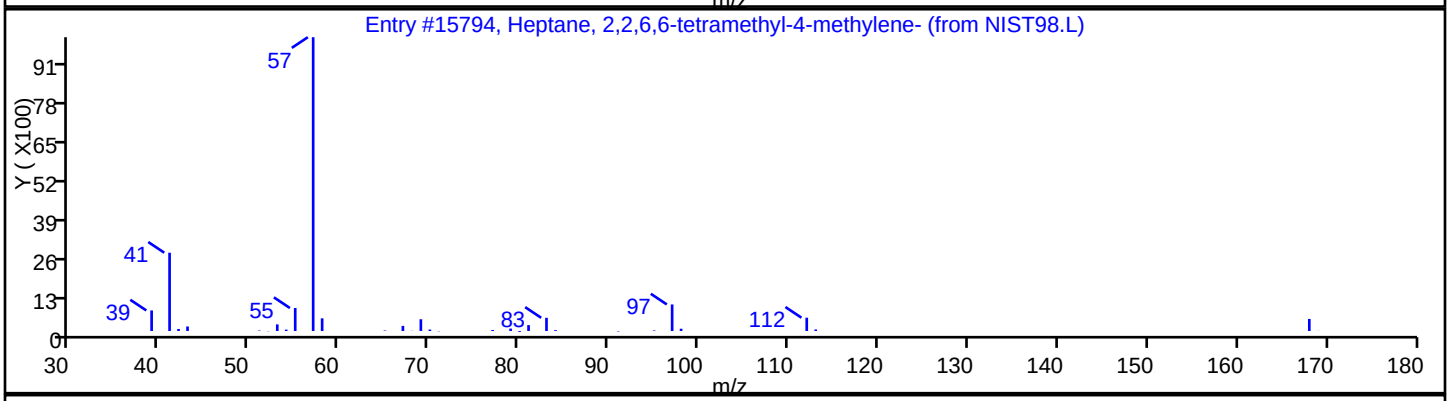
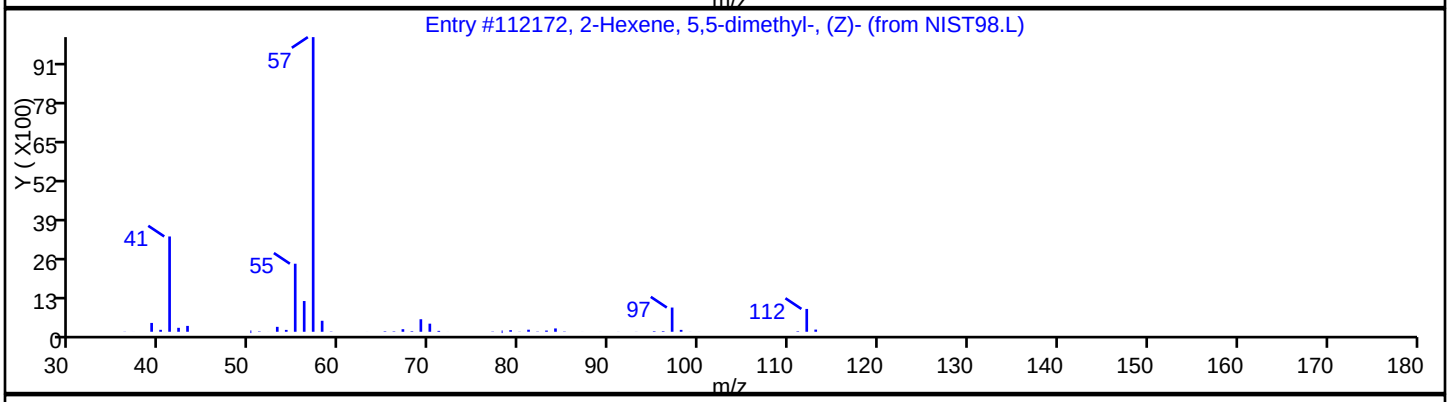
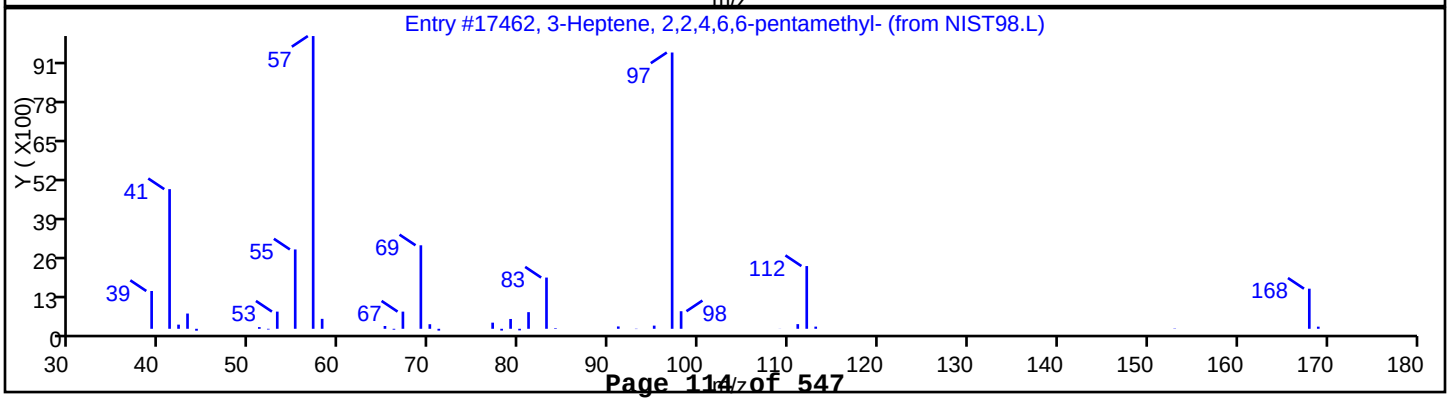
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4309.D | | |
| Injection Date: | 14-Dec-2012 03:16:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-484-5.5/7.5-XXX | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 13 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| Heptane, 2,2,6,6-tetramethyl-4-methylene | 141-70-8 | NIST98.L | 15794 | 68 |
| 2-Hexene, 5,5-dimethyl-, (Z)- | 39761-61-0 | NIST98.L | 112172 | 58 |
| 3-Heptene, 2,2,4,6,6-pentamethyl- | 123-48-8 | NIST98.L | 17462 | 50 |



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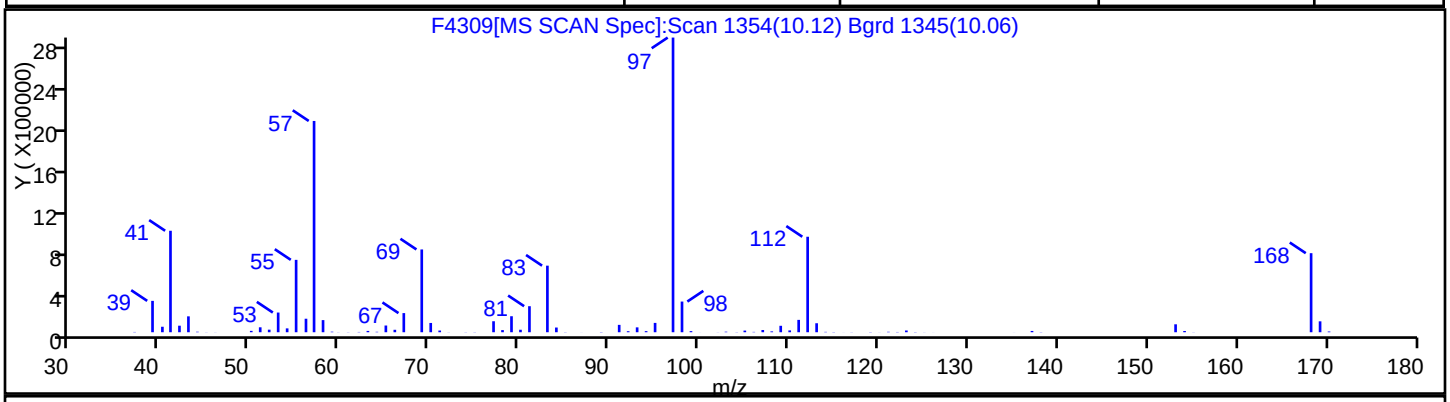
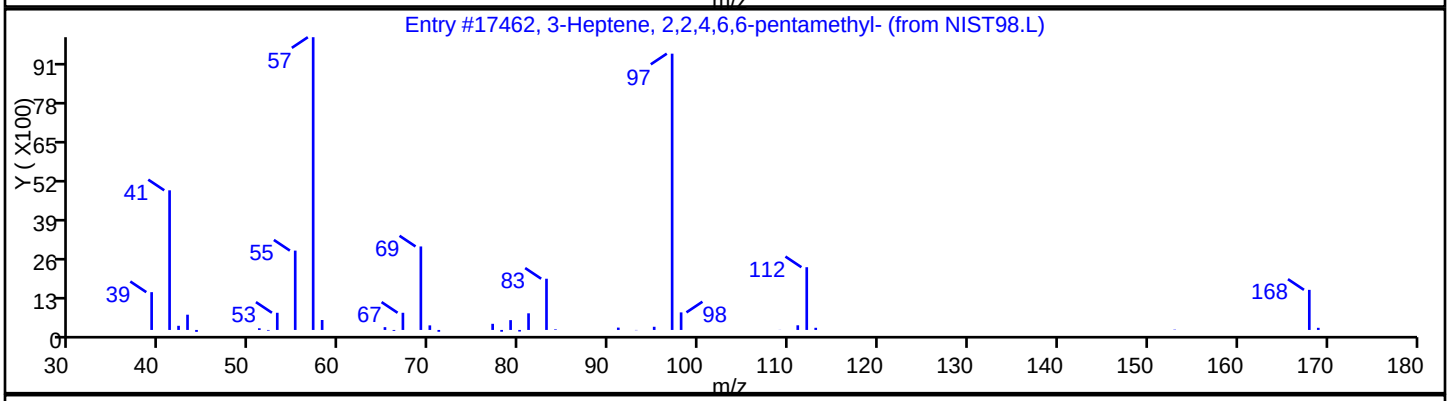
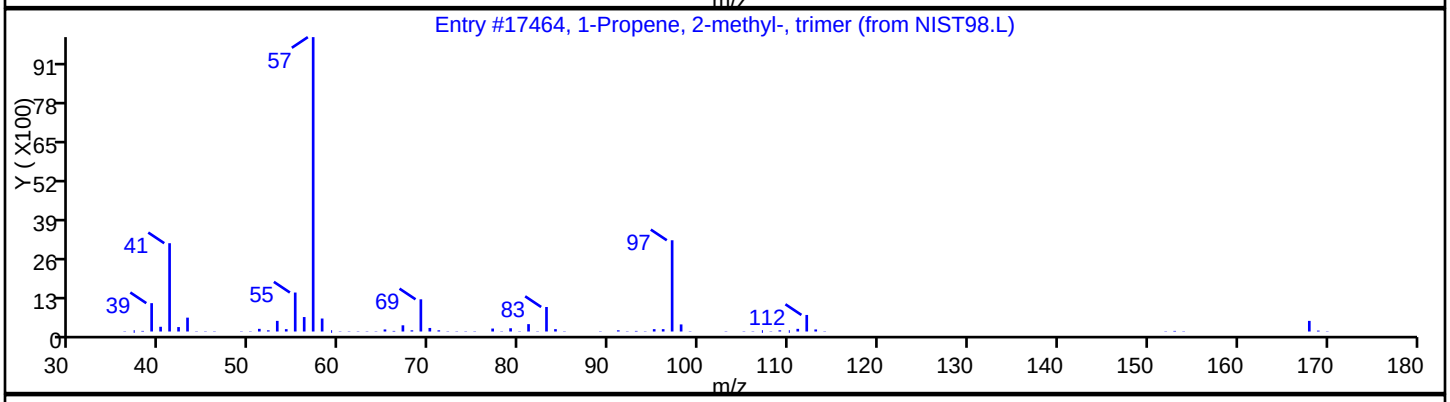
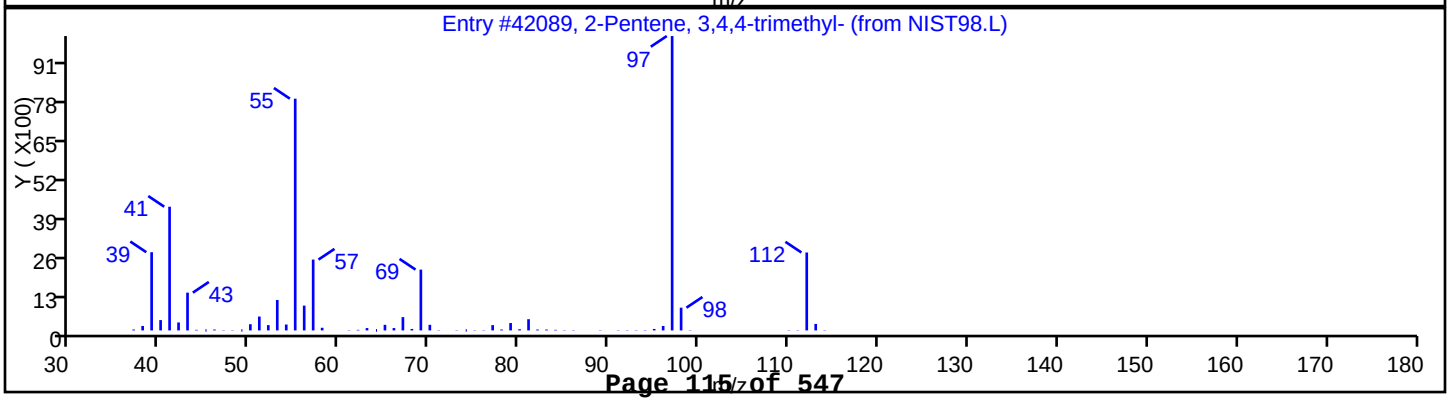
| Injection Date: | 14-Dec-2012 03:16:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-484-5.5/7.5-XXX | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 13 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| 3-Heptene, 2,2,4,6,6-pentamethyl- | 123-48-8 | NIST98.L | 17462 | 95 |
| 1-Propene, 2-methyl-, trimer | 7756-94-7 | NIST98.L | 17464 | 90 |
| 2-Pentene, 3,4,4-trimethyl- | 598-96-9 | NIST98.L | 42089 | 53 |



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TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4309.D

Injection Date: 14-Dec-2012 03:16:30 Limit Group: MV - 8260MCP_RCP

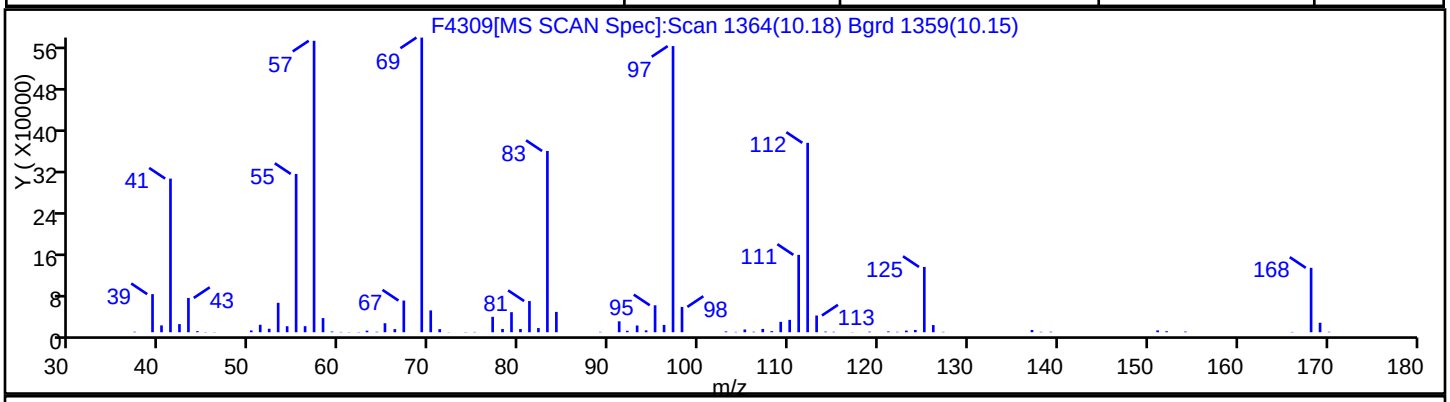
Client ID: OC-SB-484-5.5/7.5-XXX Instrument ID: HP5973F

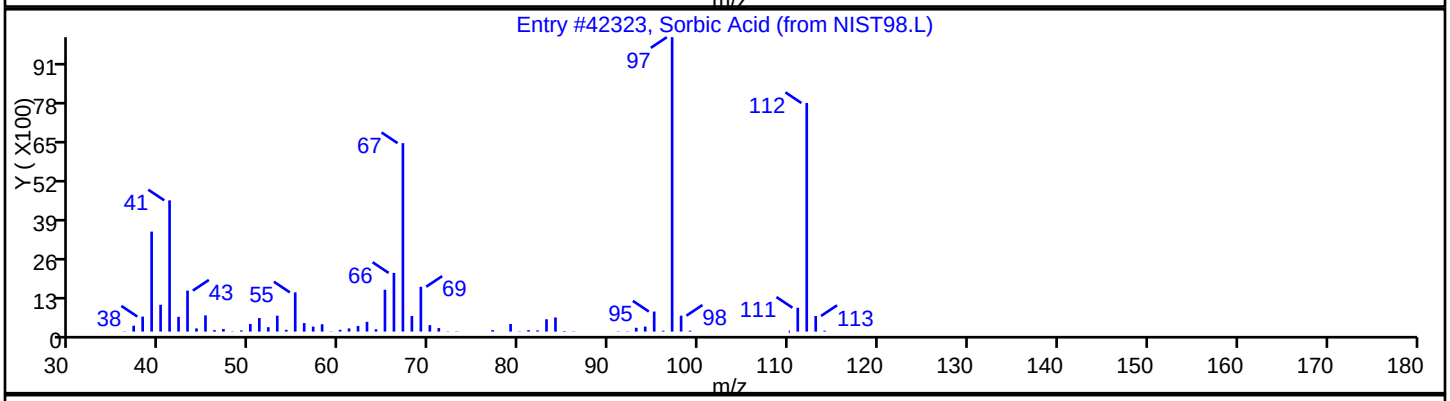
Lims Batch ID: 95715 Lims Sample ID: 13

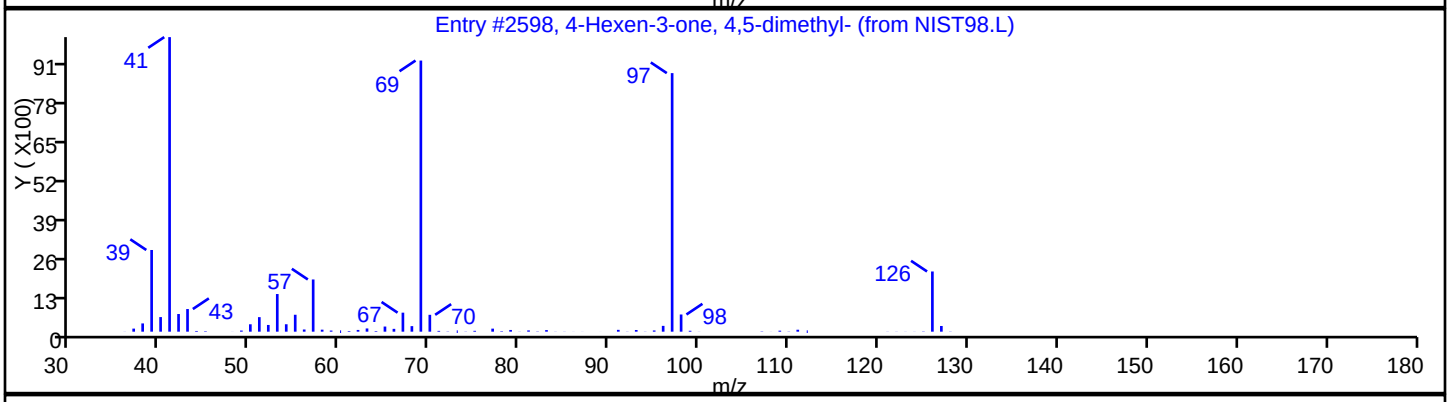
Operator ID: CDC Purge Vol: 5.000 mL

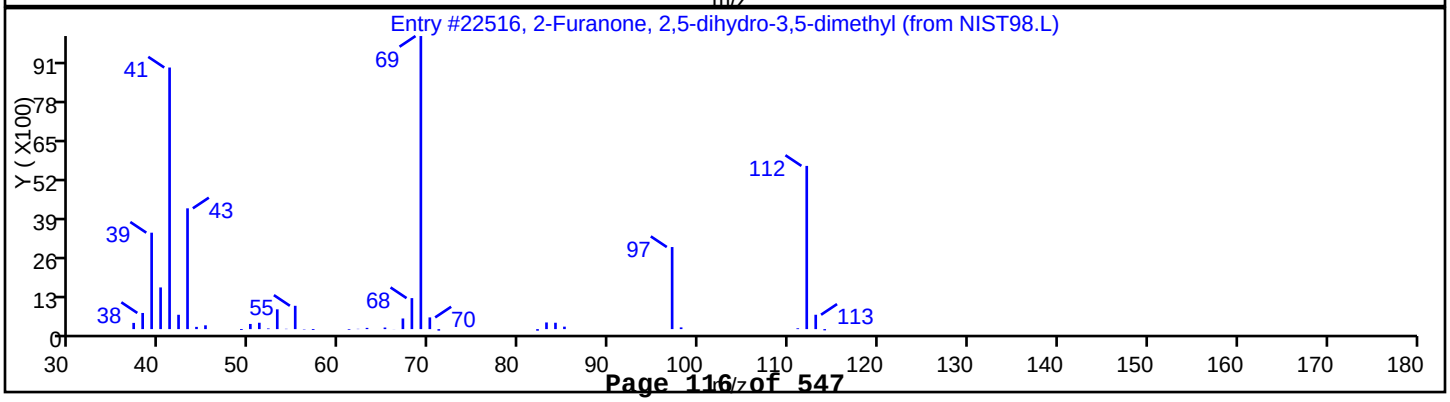
Column Type: ZB-624 Column Dia: 0.25 mm

| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| Sorbic Acid | 110-44-1 | NIST98.L | 42323 | 38 |
| 4-Hexen-3-one, 4,5-dimethyl- | 17325-90-5 | NIST98.L | 2598 | 38 |
| 2-Furanone, 2,5-dihydro-3,5-dimethyl | 1000196-88-1 | NIST98.L | 22516 | 38 |



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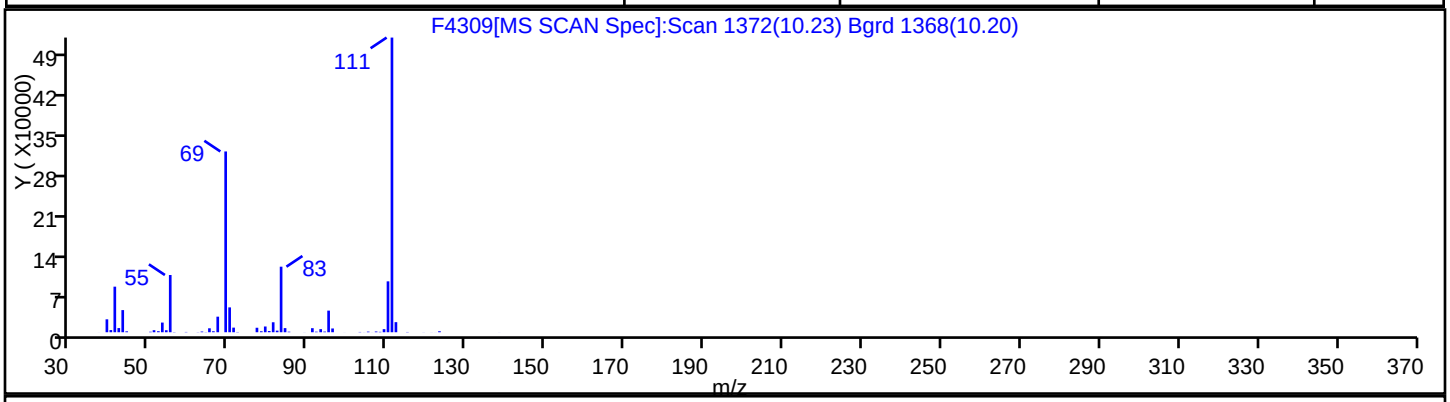
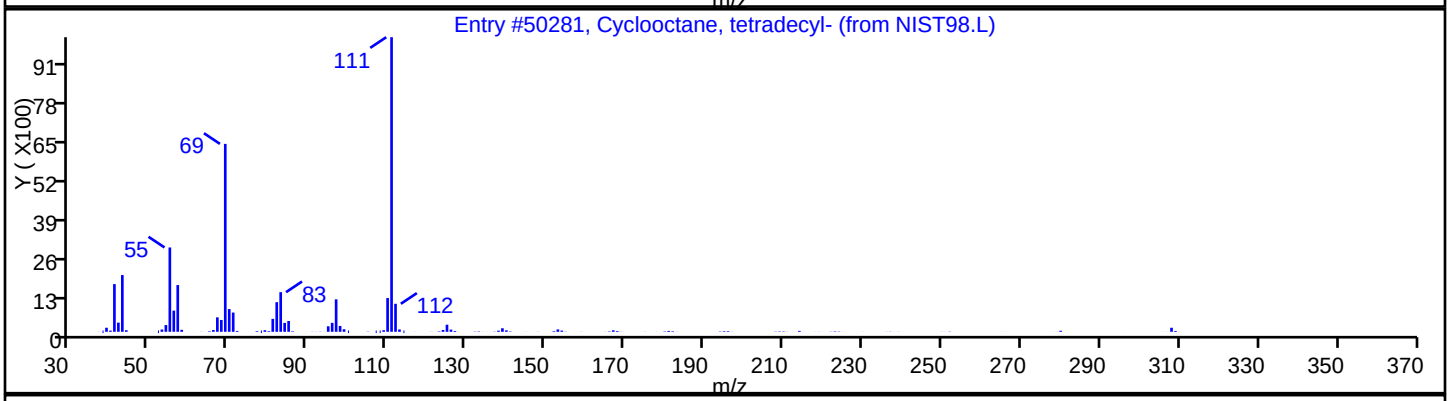
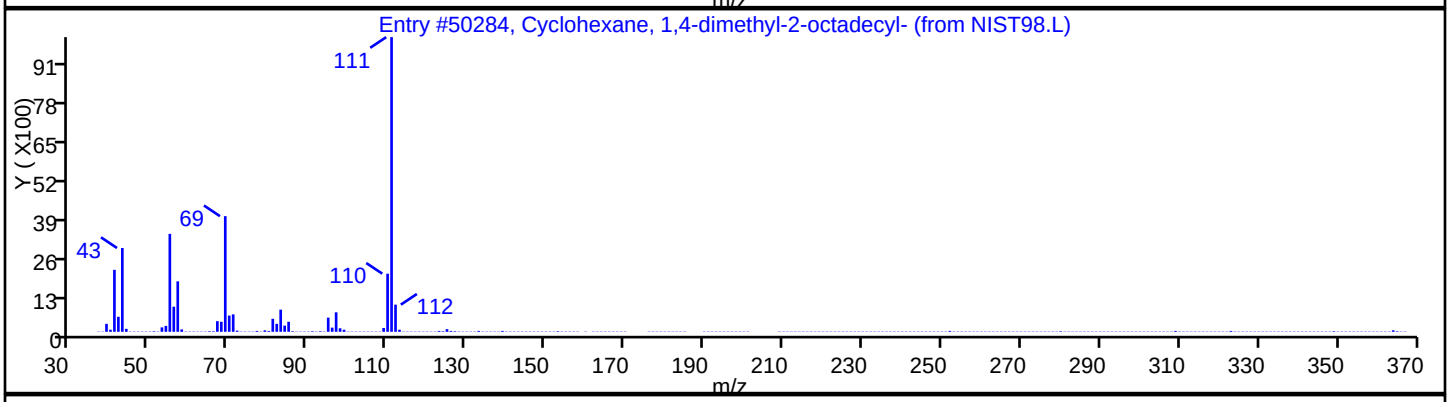
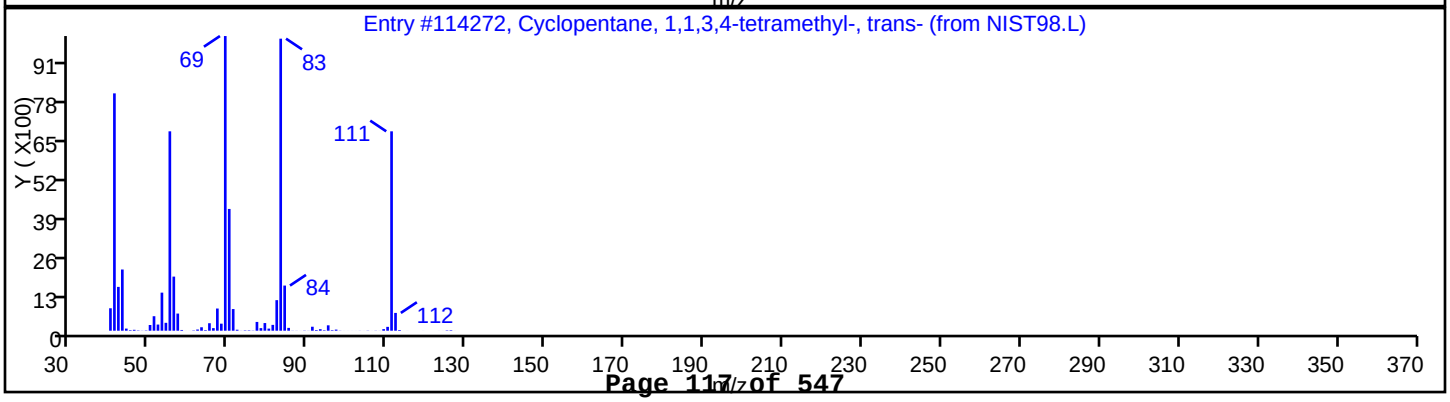
| Client ID: | OC-SB-484-5.5/7.5-XXX | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 13 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| Cyclooctane, tetradecyl- | 1000160-38-7 | NIST98.L | 50281 | 39 |
| Cyclohexane, 1,4-dimethyl-2-octadecyl- | 55282-2-5 | NIST98.L | 50284 | 38 |
| Cyclopentane, 1,1,3,4-tetramethyl-, tran | 20309-77-7 | NIST98.L | 114272 | 9 |



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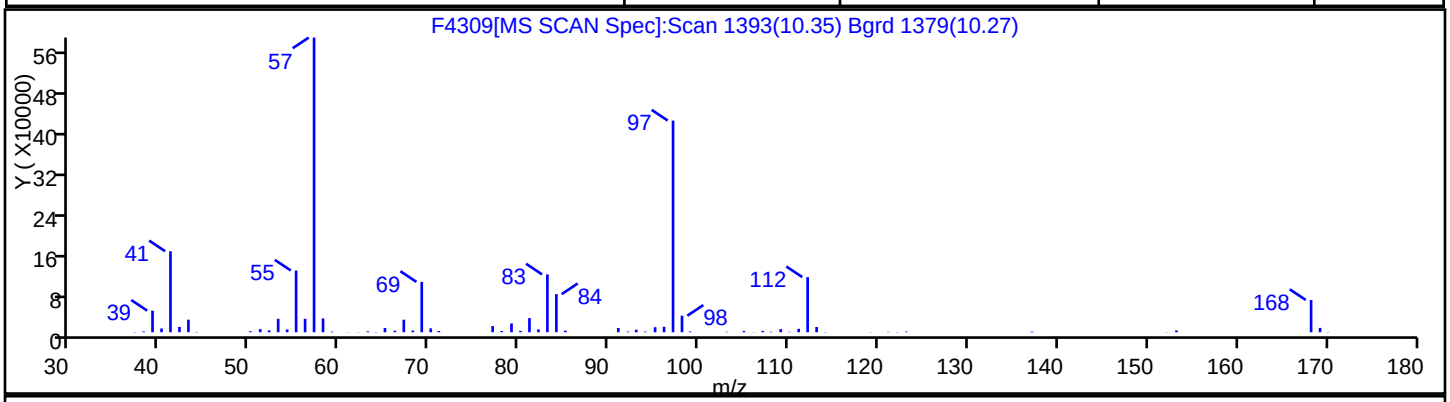
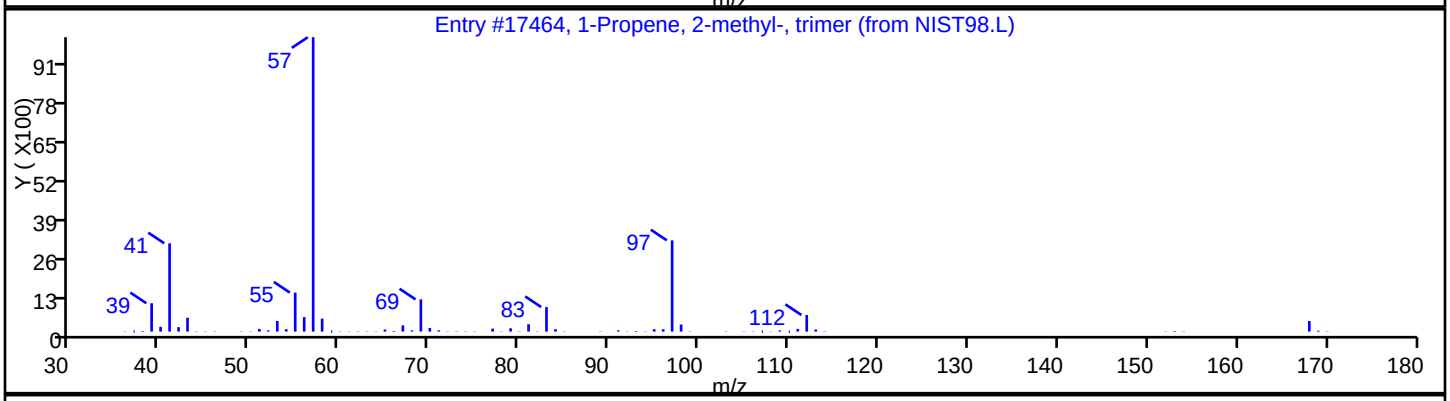
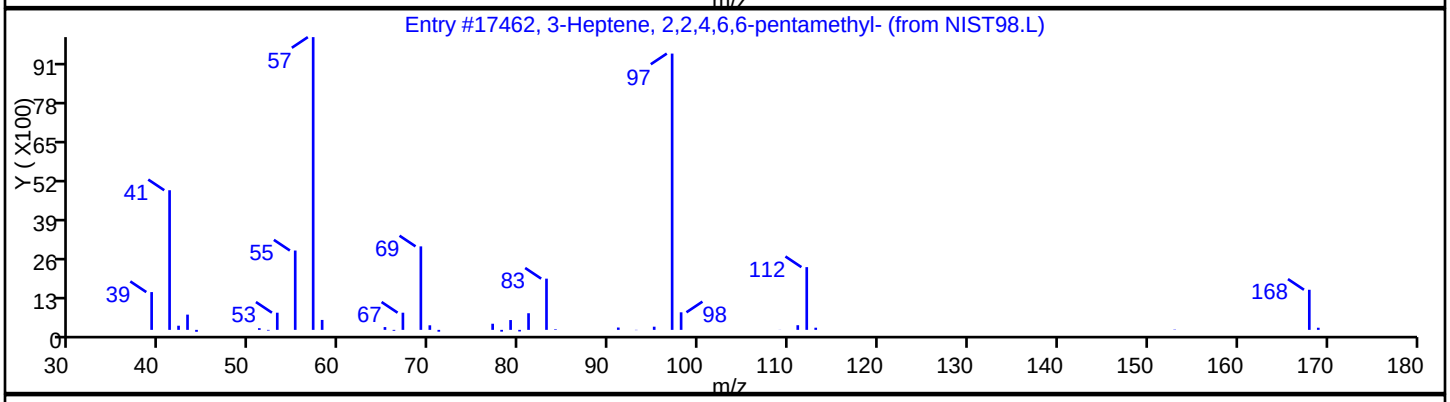
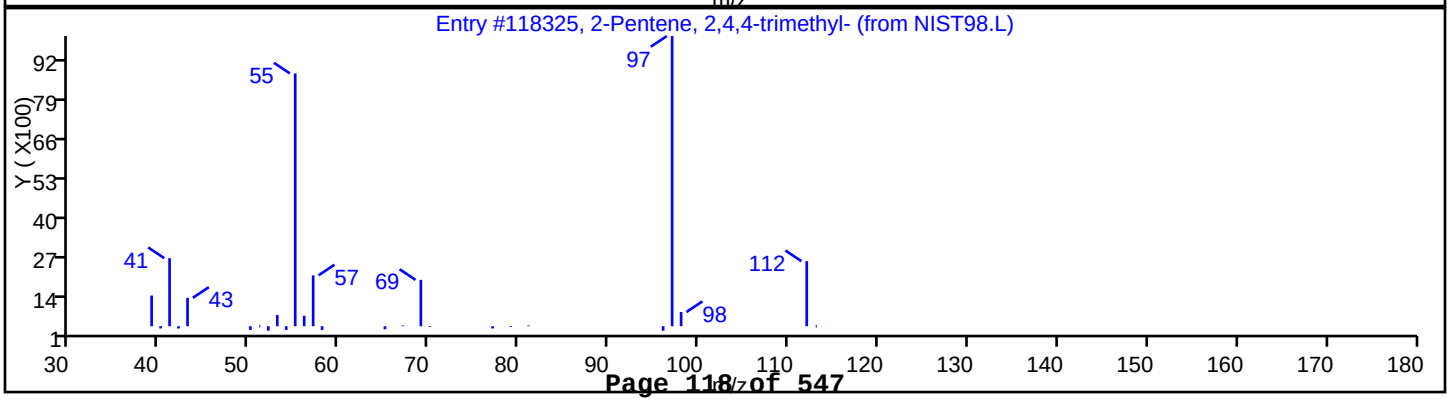
| Injection Date: | 14-Dec-2012 03:16:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-484-5.5/7.5-XXX | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 13 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| 1-Propene, 2-methyl-, trimer | 7756-94-7 | NIST98.L | 17464 | 87 |
| 3-Heptene, 2,2,4,6,6-pentamethyl- | 123-48-8 | NIST98.L | 17462 | 62 |
| 2-Pentene, 2,4,4-trimethyl- | 107-40-4 | NIST98.L | 118325 | 53 |



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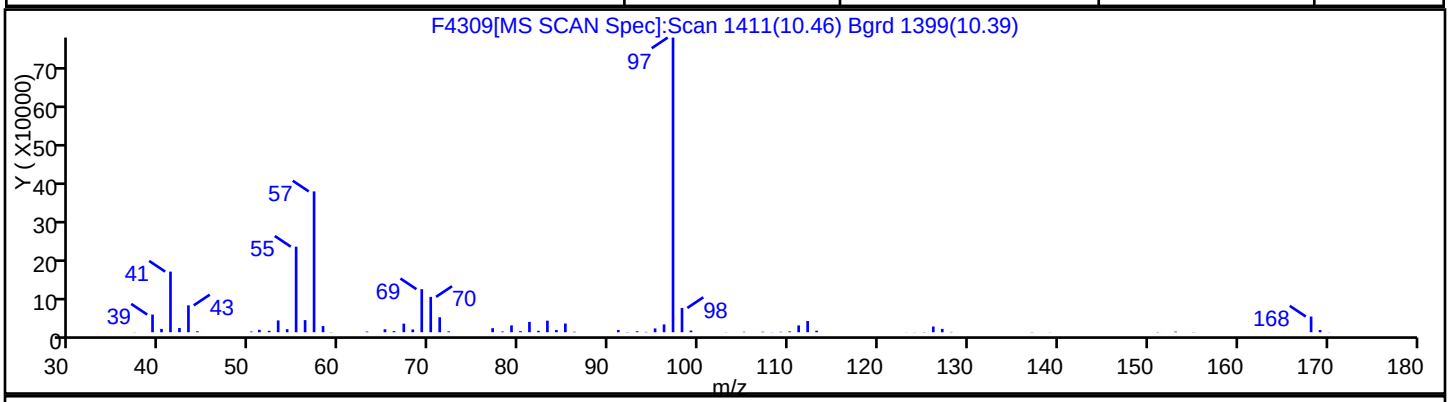
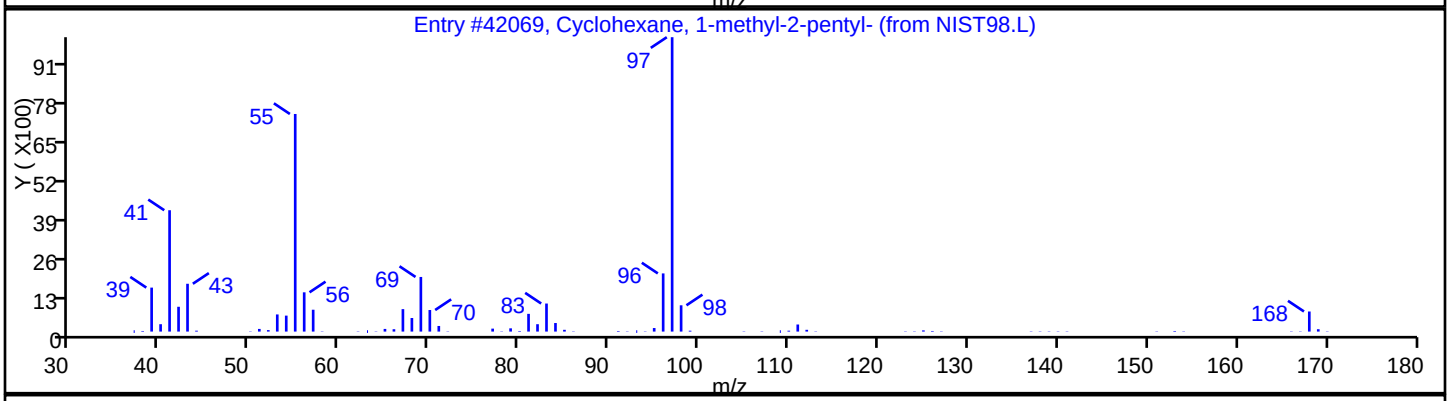
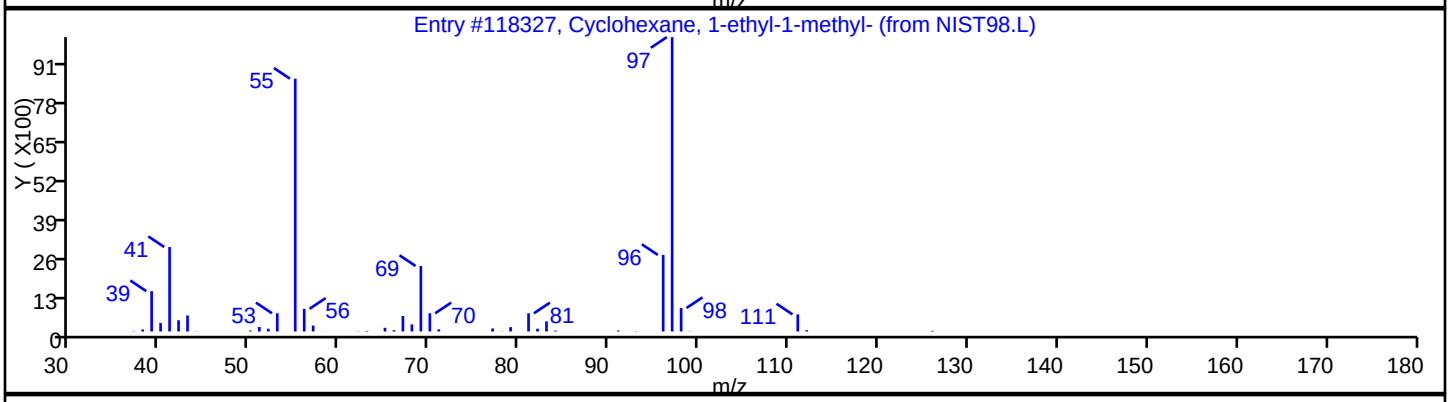
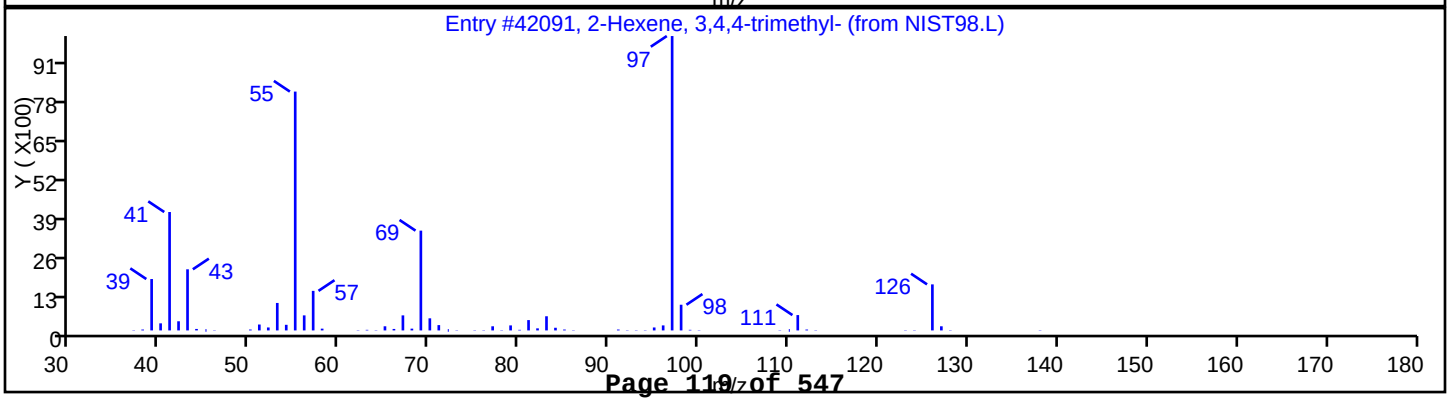
| Client ID: | OC-SB-484-5.5/7.5-XXX | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 13 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| Cyclohexane, 1-methyl-2-pentyl- | 54411-1-7 | NIST98.L | 42069 | 56 |
| Cyclohexane, 1-ethyl-1-methyl- | 4926-90-3 | NIST98.L | 118327 | 45 |
| 2-Hexene, 3,4,4-trimethyl- | 53941-19-8 | NIST98.L | 42091 | 45 |



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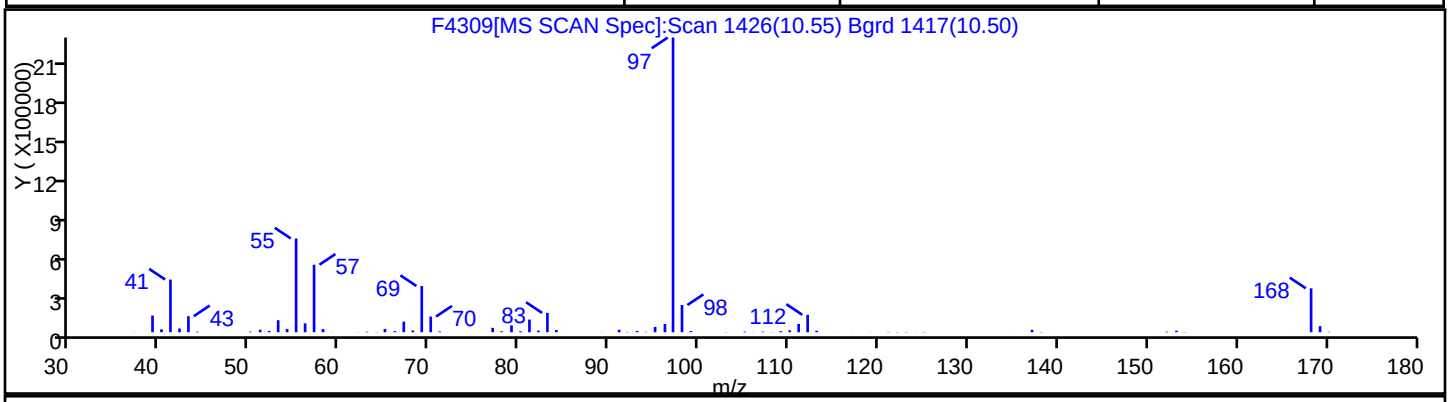
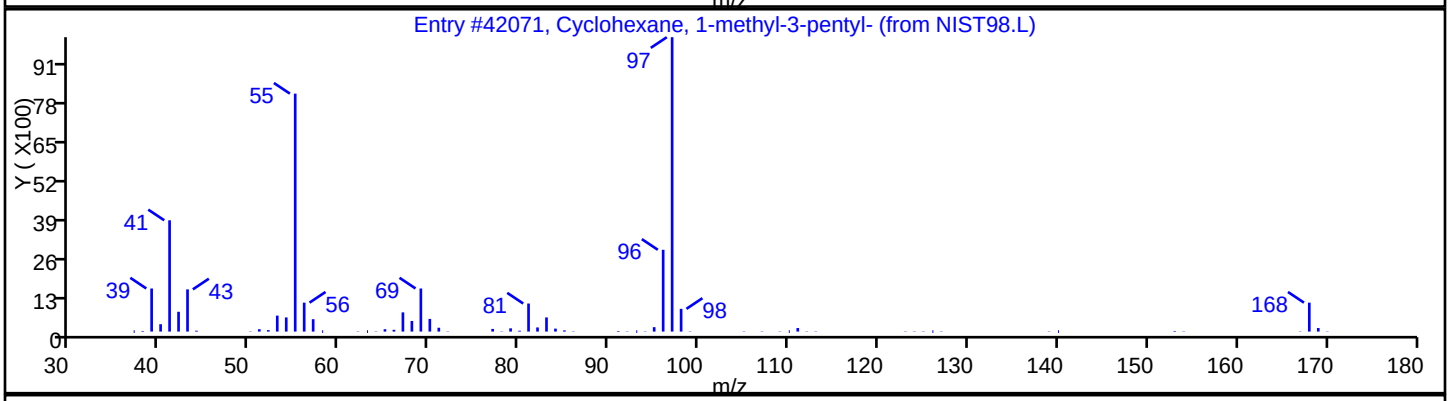
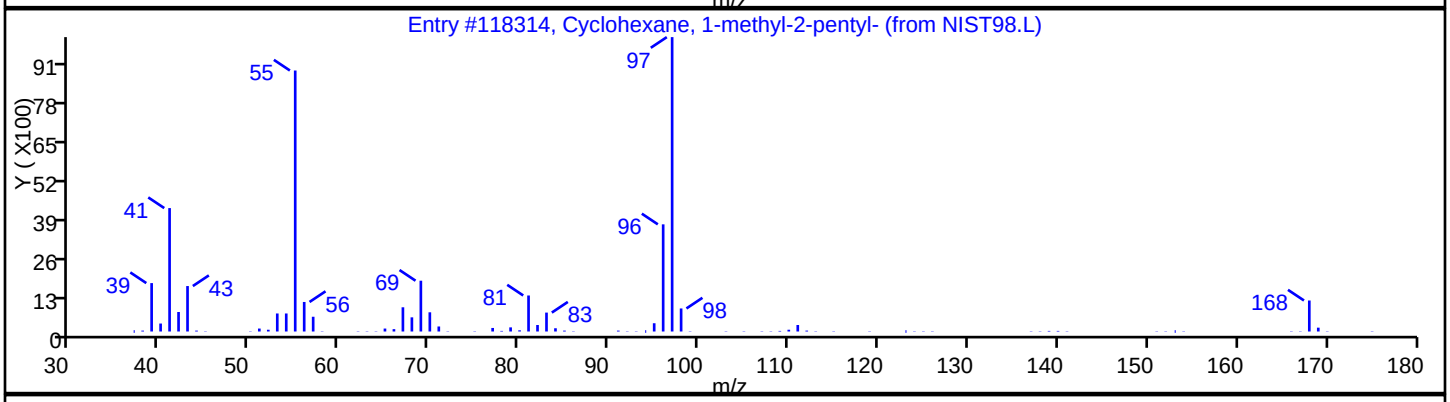
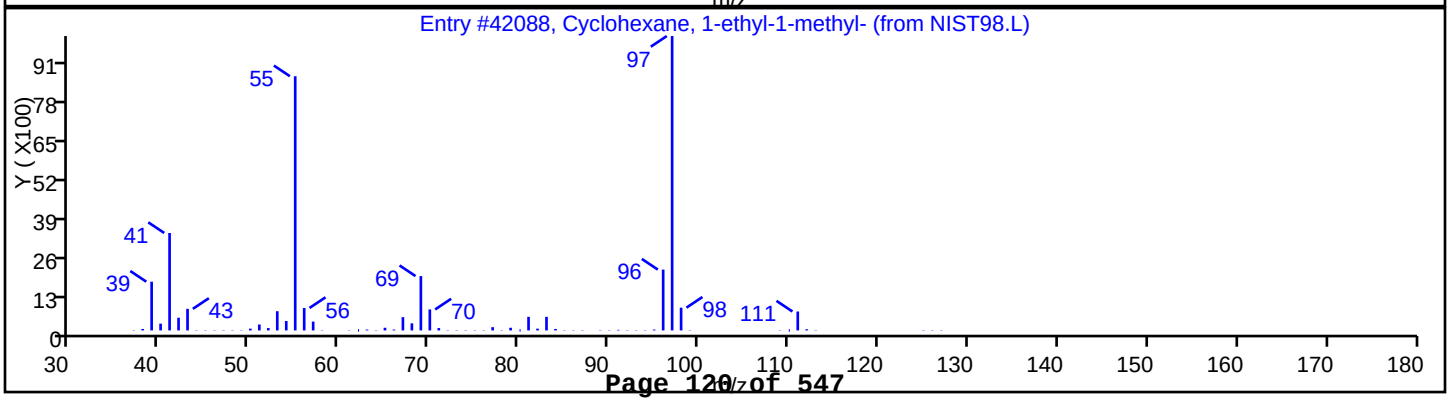
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| Cyclohexane, 1-methyl-3-pentyl- | 54411-2-8 | NIST98.L | 42071 | 90 |
| Cyclohexane, 1-methyl-2-pentyl- | 54411-1-7 | NIST98.L | 118314 | 78 |
| Cyclohexane, 1-ethyl-1-methyl- | 4926-90-3 | NIST98.L | 42088 | 64 |



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| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4309.D | | |
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| Lims Batch ID: | 95715 | Lims Sample ID: | 13 |
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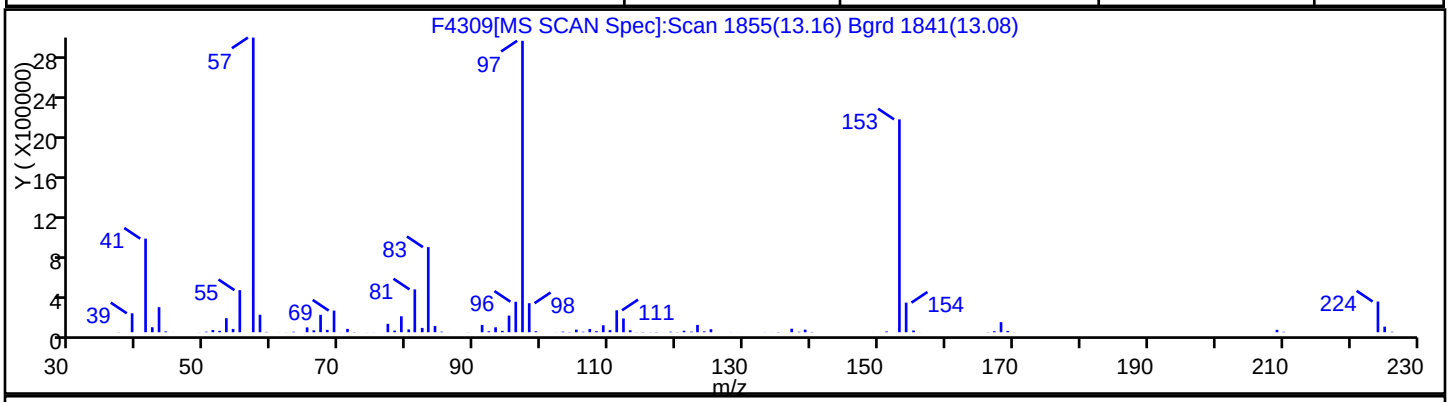
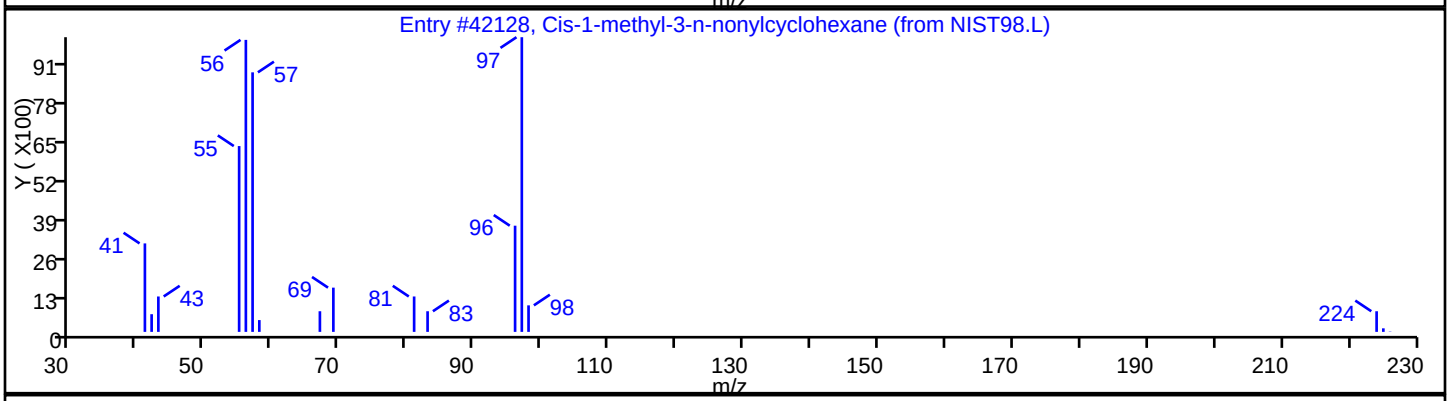
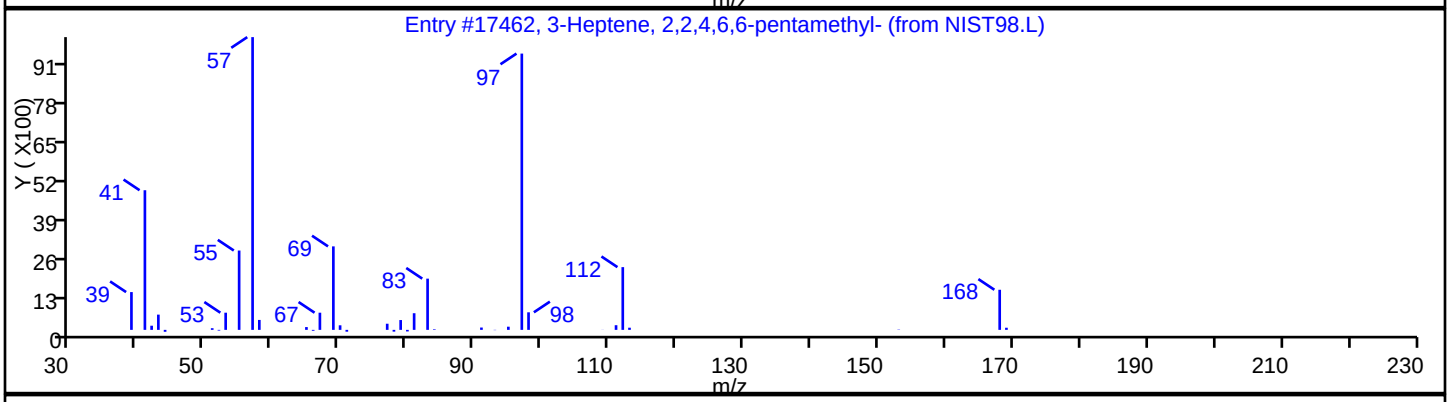
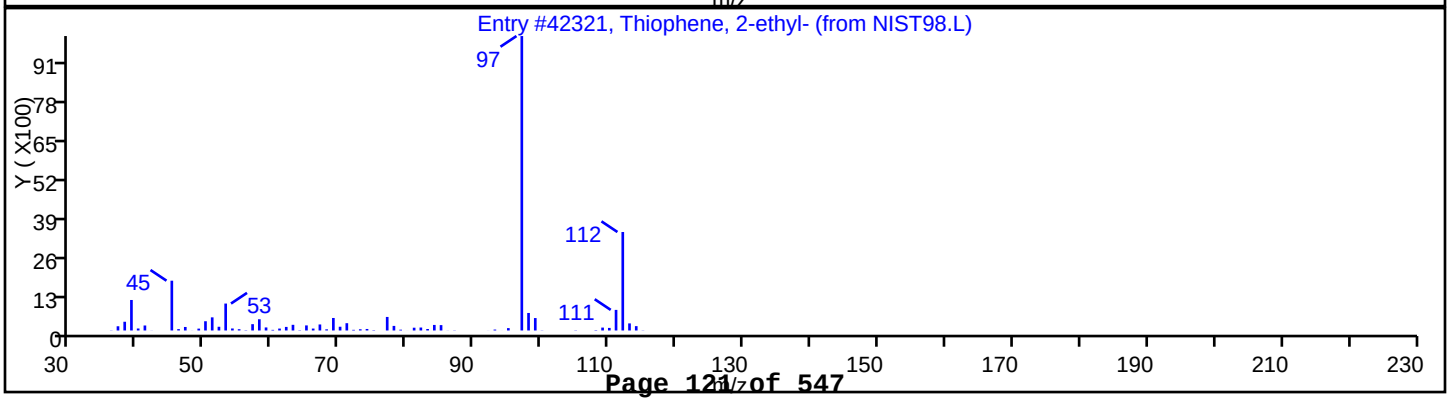
| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| Cis-1-methyl-3-n-nonylcyclohexane | 1000215-44-0 | NIST98.L | 42128 | 53 |
| 3-Heptene, 2,2,4,6,6-pentamethyl- | 123-48-8 | NIST98.L | 17462 | 47 |
| Thiophene, 2-ethyl- | 872-55-9 | NIST98.L | 42321 | 38 |



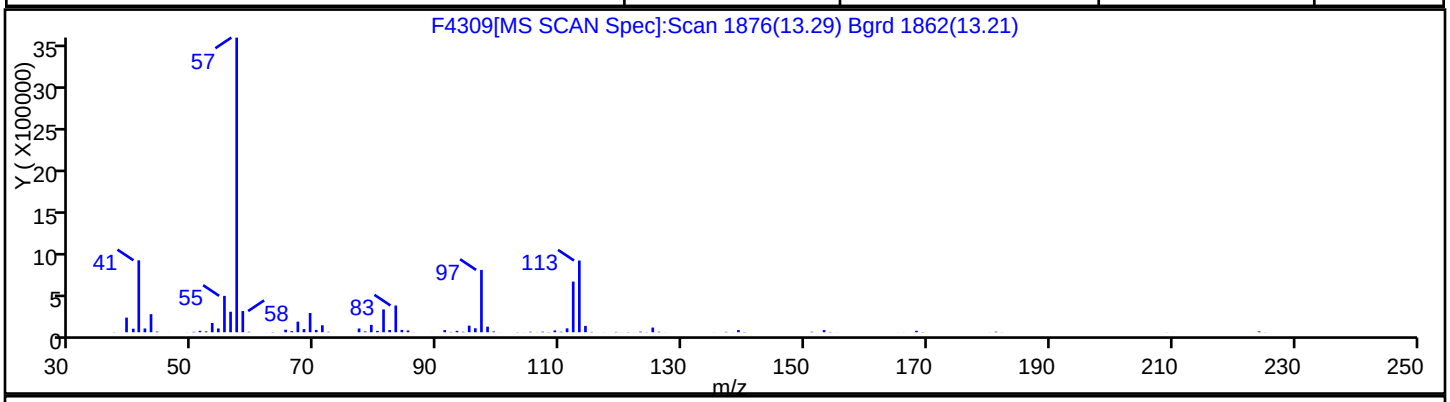



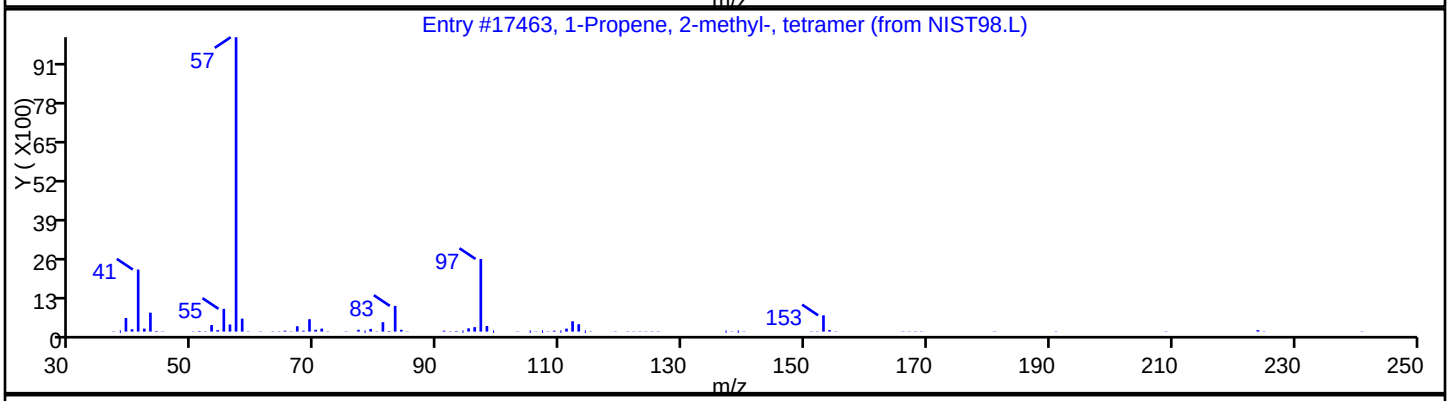
Report Date: 14-Dec-2012 08:59:32 Chrom Revision: 2.0 22-Oct-2012 16:30:48

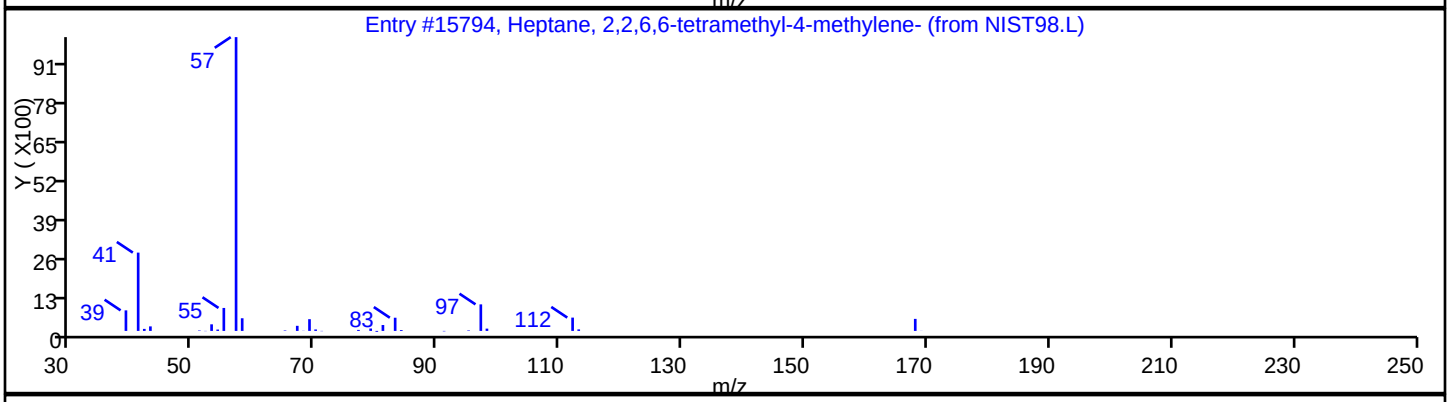
TestAmerica Buffalo

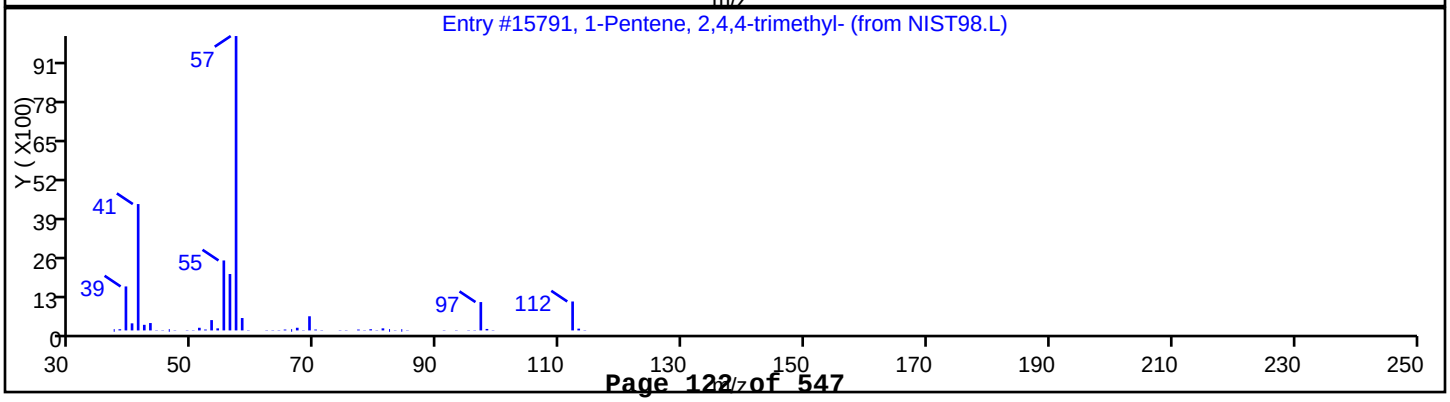
| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4309.D | | |
| Injection Date: | 14-Dec-2012 03:16:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-484-5.5/7.5-XXX | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 13 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| 1-Propene, 2-methyl-, tetramer | 15220-85-6 | NIST98.L | 17463 | 50 |
| Heptane, 2,2,6,6-tetramethyl-4-methylene | 141-70-8 | NIST98.L | 15794 | 40 |
| 1-Pentene, 2,4,4-trimethyl- | 107-39-1 | NIST98.L | 15791 | 37 |



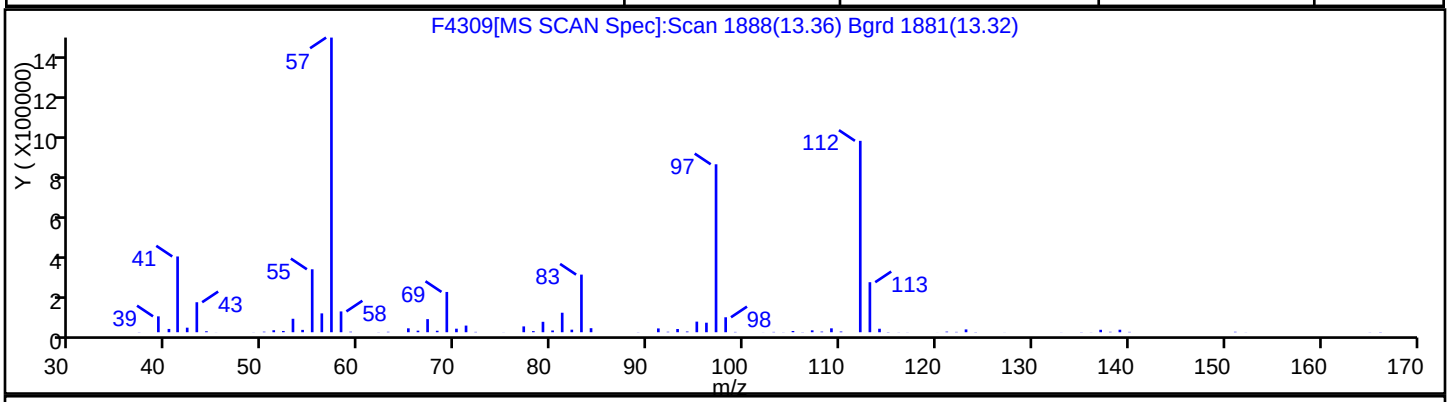



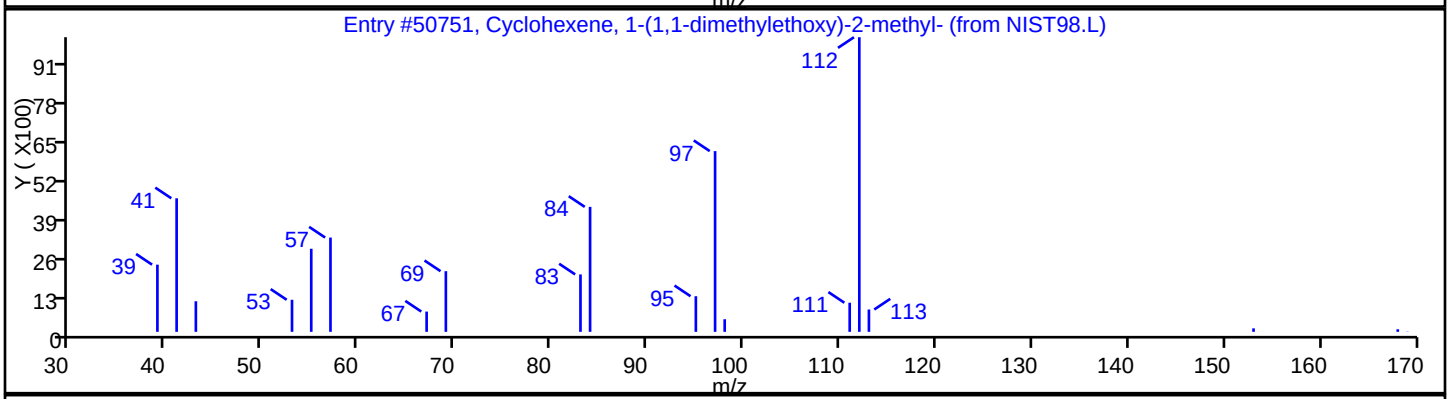
Report Date: 14-Dec-2012 08:59:32 Chrom Revision: 2.0 22-Oct-2012 16:30:48

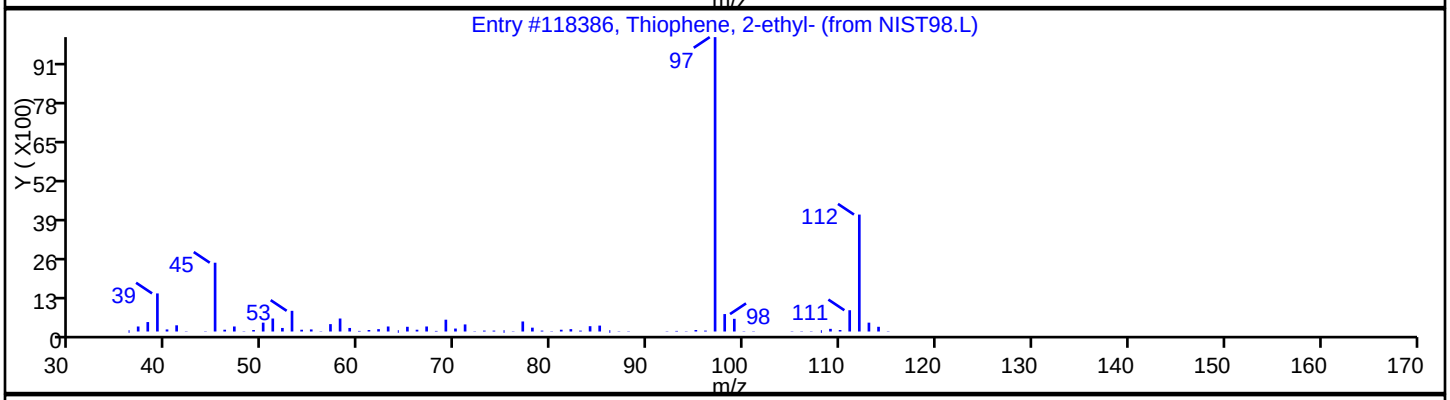
TestAmerica Buffalo

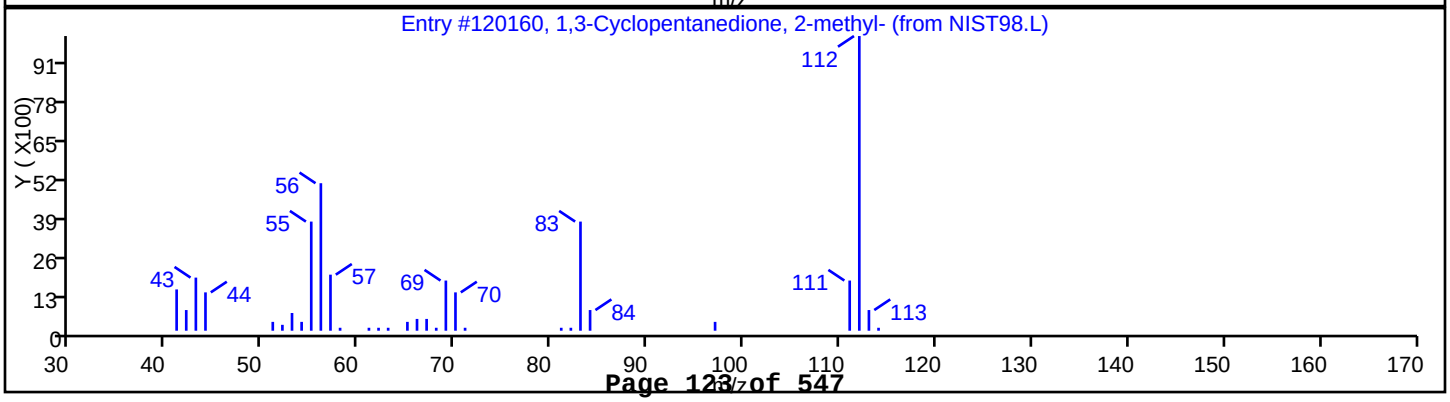
| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4309.D | | |
| Injection Date: | 14-Dec-2012 03:16:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-484-5.5/7.5-XXX | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 13 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| Cyclohexene, 1-(1,1-dimethylethoxy)-2-me | 1000145-59-3 | NIST98.L | 50751 | 38 |
| Thiophene, 2-ethyl- | 872-55-9 | NIST98.L | 118386 | 38 |
| 1,3-Cyclopentanedione, 2-methyl- | 765-69-5 | NIST98.L | 120160 | 37 |



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-29976-1

SDG No.:

Client Sample ID: OC-SB-486-8.0/10-XXX | Lab Sample ID: 480-29976-7

Matrix: Solid | Lab File ID: F4310.D

Analysis Method: 8260C | Date Collected: 12/11/2012 12:15

Sample wt/vol: 5.56(g) | Date Analyzed: 12/14/2012 03:41

Soil Aliquot Vol: | Dilution Factor: 1

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

% Moisture: 8.8 | Level: (low/med) Low

Analysis Batch No.: 95715 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 107-39-1 | 2,4,4-Trimethyl-1-pentene | 700 | E | 4.9 | 0.42 |
| 107-40-4 | 2,4,4-Trimethyl-2-pentene | 210 | E | 4.9 | 0.52 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 2037-26-5 | Toluene-d8 (Surr) | 91 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 91 | | 70-130 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 86 | | 70-130 |

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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Client Sample ID: OC-SB-486-8.0/10-XXX Lab Sample ID: 480-29976-7

Matrix: Solid Lab File ID: F4310.D

Analysis Method: 8260C Date Collected: 12/11/2012 12:15

Sample wt/vol: 5.56(g) Date Analyzed: 12/14/2012 03:41

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: 8.8 Level: (low/med) Low

Analysis Batch No.: 95715 Units: ug/Kg

Number TICs Found: 10 TIC Result Total: 1002

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| 3404-80-6 | Hexane, 2-methyl-4-methylene- | 6.12 | 28 | T J N |
| 560-23-6 | 1-Pentene, 2,3,3-trimethyl- | 6.25 | 15 | T J N |
| 107-40-4 | 2-Pentene, 2,4,4-trimethyl- | 6.44 | 39 | T J N |
| 565-77-5 | 2-Pentene, 2,3,4-trimethyl- | 6.78 | 62 | T J N |
| 141-70-8 | Heptane, 2,2,6,6-tetramethyl-4-methylene | 10.03 | 34 | T J N |
| 123-48-8 | 3-Heptene, 2,2,4,6,6-pentamethyl- | 10.11 | 59 | T J N |
| 1795-1-3 | Thiophene, 3-ethyl- | 10.17 | 15 | T J N |
| 123-48-8 | 3-Heptene, 2,2,4,6,6-pentamethyl- | 13.15 | 360 | T J N |
| 15220-85-6 | 1-Propene, 2-methyl-, tetramer | 13.29 | 230 | T J N |
| 4390-4-9 | Nonane, 2,2,4,4,6,8,8-heptamethyl- | 13.37 | 160 | T J N |

Report Date: 14-Dec-2012 08:59:31 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4310.D | | |
| Lims ID: | 480-29976-C-7-A | Client ID: | OC-SB-486-8.0/10-XXX |
| Inject. Date: | 14-Dec-2012 03:41:30 | Dil. Factor: | 1.0000 |
| Sample Type: | Client | | |
| Sample ID: | 480-29976-C-7-A | | |
| Misc. Info.: | 480-0017526-014 =480-0017526-014 | | |
| Operator: | CDC | Instrument ID: | HP5973F |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 6 |
| Lims Batch ID: | 95715 | Lims Sample ID: | 14 |
| Detector: | MS SCAN | | |
| Method: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F-8260 SOIL.m | | |
| Last Update: | 14-Dec-2012 08:59:22 | Calib Date: | 11-Dec-2012 23:36:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4239.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK015 | | |

First Level Reviewer: ByrnesJ Date: 14-Dec-2012 08:53:37

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 5.608 | 5.608 | 0.0 | 91 | 239463 | 50.0 | |
| * 2 Chlorobenzene-d5 | 82 | 8.382 | 8.382 | 0.0 | 80 | 104658 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 10.700 | 10.700 | 0.0 | 91 | 117594 | 50.0 | |
| $ 4 1,2-Dichloroethane-d4 (Surr) | 67 | 5.304 | 5.304 | 0.0 | 99 | 39440 | 45.4 | |
| $ 5 Toluene-d8 (Surr) | 98 | 6.934 | 6.928 | 0.006 | 90 | 286683 | 45.4 | |
| $ 6 4-Bromofluorobenzene (Surr) | 174 | 9.593 | 9.599 | -0.006 | 92 | 96177 | 43.2 | |
| 10 Dichlorodifluoromethane | 85 | | 1.995 | | | | | |
| 12 Chloromethane | 50 | | 2.147 | | | | | |
| 13 Vinyl chloride | 62 | | 2.268 | | | | | |
| 14 Bromomethane | 94 | | 2.548 | | | | | |
| 15 Chloroethane | 64 | | 2.621 | | | | | |
| 17 Trichlorofluoromethane | 101 | | 2.846 | | | | | |
| 18 Ethyl ether | 59 | | 3.035 | | | | | |
| 21 1,1,2-Trichloro-1,2,2-trifluoroe | 101 | | 3.224 | | | | | |
| 22 1,1-Dichloroethene | 96 | | 3.254 | | | | | |
| 23 Acetone | 43 | | 3.303 | | | | | |
| 26 Carbon disulfide | 76 | | 3.467 | | | | | |
| 27 Methyl acetate | 43 | | 3.528 | | | | | 9 |
| 30 Methylene Chloride | 84 | 3.649 | 3.643 | 0.006 | 52 | 3125 | 1.51 | |
| 32 Methyl tert-butyl ether | 73 | | 3.801 | | | | | |
| 34 trans-1,2-Dichloroethene | 96 | | 3.832 | | | | | |
| 36 Isopropyl ether | 45 | | 4.130 | | | | | |
| 39 1,1-Dichloroethane | 63 | | 4.173 | | | | | |
| 41 Tert-butyl ethyl ether | 59 | | 4.416 | | | | | 9 |
| 43 2-Butanone (MEK) | 43 | | 4.617 | | | | | 9 |
| 44 2,2-Dichloropropane | 77 | | 4.623 | | | | | 9 |
| 45 cis-1,2-Dichloroethene | 96 | | 4.629 | | | | | |
| 48 Chlorobromomethane | 128 | | 4.842 | | | | | |
| 49 Tetrahydrofuran | 42 | | 4.854 | | | | | 9 |
| 50 Chloroform | 83 | | 4.872 | | | | | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 51 1,1,1-Trichloroethane | 97 | | 5.018 | | | | | |
| 52 Cyclohexane | 56 | | 5.049 | | | | | |
| 54 1,1-Dichloropropene | 75 | | 5.140 | | | | | |
| 55 Carbon tetrachloride | 117 | | 5.146 | | | | | |
| 57 Benzene | 78 | | 5.328 | | | | | |
| 56 Tert-amyl methyl ether | 73 | | 5.347 | | | | | |
| 58 1,2-Dichloroethane | 62 | | 5.365 | | | | | |
| 136 2,4,4-Trimethyl-1-pentene | 55 | 5.736 | 5.736 | 0.0 | 0 | 1264229 | 708.8 | E |
| 62 Trichloroethene | 95 | | 5.852 | | | | | 9 |
| 135 2,4,4-Trimethyl-2-pentene | 97 | 5.925 | 5.918 | 0.007 | 0 | 810788 | 209.0 | E |
| 64 Methylcyclohexane | 83 | | 5.985 | | | | | |
| 65 1,2-Dichloropropane | 63 | | 6.077 | | | | | 9 |
| 66 1,4-Dioxane | 88 | | 6.174 | | | | | |
| 67 Dibromomethane | 93 | | 6.211 | | | | | |
| 68 Dichlorobromomethane | 83 | | 6.320 | | | | | 9 |
| 72 cis-1,3-Dichloropropene | 75 | | 6.697 | | | | | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | | 6.801 | | | | | 9 |
| 74 Toluene | 92 | | 6.995 | | | | | 9 |
| 77 trans-1,3-Dichloropropene | 75 | | 7.214 | | | | | |
| 79 1,1,2-Trichloroethane | 83 | | 7.415 | | | | | |
| 81 Tetrachloroethene | 166 | | 7.519 | | | | | |
| 82 1,3-Dichloropropane | 76 | | 7.585 | | | | | |
| 80 2-Hexanone | 43 | | 7.592 | | | | | |
| 83 Chlorodibromomethane | 129 | | 7.829 | | | | | |
| 84 Ethylene Dibromide | 107 | | 7.957 | | | | | |
| 87 Chlorobenzene | 112 | | 8.413 | | | | | |
| 88 Ethylbenzene | 91 | | 8.474 | | | | | |
| 89 1,1,1,2-Tetrachloroethane | 131 | | 8.492 | | | | | |
| 90 m-Xylene & p-Xylene | 106 | | 8.589 | | | | | 9 |
| 91 o-Xylene | 106 | | 9.021 | | | | | |
| 92 Styrene | 104 | | 9.046 | | | | | |
| 95 Bromoform | 173 | | 9.319 | | | | | |
| 94 Isopropylbenzene | 105 | | 9.386 | | | | | |
| 97 1,1,2,2-Tetrachloroethane | 83 | | 9.757 | | | | | |
| 101 Bromobenzene | 156 | | 9.769 | | | | | |
| 99 N-Propylbenzene | 91 | | 9.800 | | | | | |
| 100 1,2,3-Trichloropropane | 110 | | 9.812 | | | | | |
| 103 2-Chlorotoluene | 126 | | 9.928 | | | | | |
| 102 1,3,5-Trimethylbenzene | 105 | | 9.964 | | | | | 9 |
| 105 4-Chlorotoluene | 126 | | 10.031 | | | | | |
| 106 tert-Butylbenzene | 134 | | 10.281 | | | | | |
| 107 1,2,4-Trimethylbenzene | 105 | | 10.329 | | | | | |
| 109 sec-Butylbenzene | 105 | | 10.481 | | | | | 9 |
| 110 4-Isopropyltoluene | 119 | | 10.603 | | | | | |
| 111 1,3-Dichlorobenzene | 146 | | 10.639 | | | | | 9 |
| 113 1,4-Dichlorobenzene | 146 | | 10.725 | | | | | 9 |
| 115 n-Butylbenzene | 91 | | 10.974 | | | | | 9 |
| 116 1,2-Dichlorobenzene | 146 | | 11.065 | | | | | 9 |
| 117 1,2-Dibromo-3-Chloropropane | 75 | | 11.741 | | | | | |
| 119 1,2,4-Trichlorobenzene | 180 | | 12.385 | | | | | |
| 120 Hexachlorobutadiene | 225 | | 12.483 | | | | | |
| 121 Naphthalene | 128 | | 12.623 | | | | | 9 |

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

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount
9 - Failed A Reference Spectral Test

TestAmerica Buffalo
Tentatively Identified Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4310.D | | |
| Lims ID: | 480-29976-C-7-A | Client ID: | OC-SB-486-8.0/10-XXX |
| Inject. Date: | 14-Dec-2012 03:41:30 | Dil. Factor: | 1.0000 |
| Sample Type: | Client | | |
| Sample ID: | 480-29976-C-7-A | | |
| Misc. Info.: | 480-0017526-014 =480-0017526-014 | | |
| Operator: | CDC | Instrument ID: | HP5973F |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 6 |
| Lims Batch ID: | 95715 | Lims Sample ID: | 14 |
| Detector: | MS SCAN | | |
| Method: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F-8260 SOIL.m | | |
| Last Update: | 14-Dec-2012 08:59:22 | Calib Date: | 11-Dec-2012 23:36:30 |
| Tic RT Window: | 1.500 -0.000 | Response: | area |
| Quant By: | Nearest ISTD | Quant LOD: | 10.00000 |
| MS Library: | \\Bufchrom\ChromData\Database\NIST98.L | | |
| Min. Match: | 0 | | |
| Process Host: | XAWRK015 | | |
| First Level Reviewer: ByrnesJ | | Date: | 14-Dec-2012 08:53:37 |

Tentative Identified Compound Results

| RT | Response | Amount ug/kg | Quant Cpnd | Qual | Lib Entry | Flags |
|---|---|---|---|---|---|---|
| 3404-80-6 Hexane, 2-methyl-4-methylene- | | | | | | |
| 6.119 | 303383 | 28.2 | 1 | 90 | 23848 | |
| 560-23-6 1-Pentene, 2,3,3-trimethyl- | | | | | | |
| 6.253 | 164307 | 15.3 | 1 | 91 | 14234 | |
| 107-40-4 2-Pentene, 2,4,4-trimethyl- | | | | | | |
| 6.436 | 420183 | 39.1 | 1 | 94 | 118325 | |
| 565-77-5 2-Pentene, 2,3,4-trimethyl- | | | | | | |
| 6.776 | 678556 | 63.1 | 1 | 91 | 14482 | |
| 141-70-8 Heptane, 2,2,6,6-tetramethyl-4-methylene | | | | | | |
| 10.025 | 481485 | 34.1 | 3 | 76 | 15794 | |
| 123-48-8 3-Heptene, 2,2,4,6,6-pentamethyl- | | | | | | |
| 10.110 | 841363 | 59.5 | 3 | 95 | 17462 | |
| 1795-1-3 Thiophene, 3-ethyl- | | | | | | |
| 10.171 | 212547 | 15.0 | 3 | 53 | 42322 | |
| 123-48-8 3-Heptene, 2,2,4,6,6-pentamethyl- | | | | | | |
| 13.152 | 5113676 | 361.8 | 3 | 58 | 17462 | |
| 15220-85-6 1-Propene, 2-methyl-, tetramer | | | | | | |
| 13.286 | 3265211 | 231.0 | 3 | 50 | 17463 | |
| 4390-4-9 Nonane, 2,2,4,4,6,8,8-heptamethyl- | | | | | | |
| 13.365 | 2336277 | 165.3 | 3 | 17 | 112212 | |

Quantitation Compounds

| Compound | RT | Response | Amount ug/kg |
|---|---|---|---|

Report Date: 14-Dec-2012 08:59:31 Chrom Revision: 2.0 22-Oct-2012 16:30:48
Data File: \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4310.D

| Compound | RT | Response | Amount ug/kg |
|---|---|---|---|
| * 1 1,4-Difluorobenzene | 5.608 | 537450 | 50.0 |
| * 3 1,4-Dichlorobenzene-d4 | 10.700 | 706613 | 50.0 |

QC Flag Legend

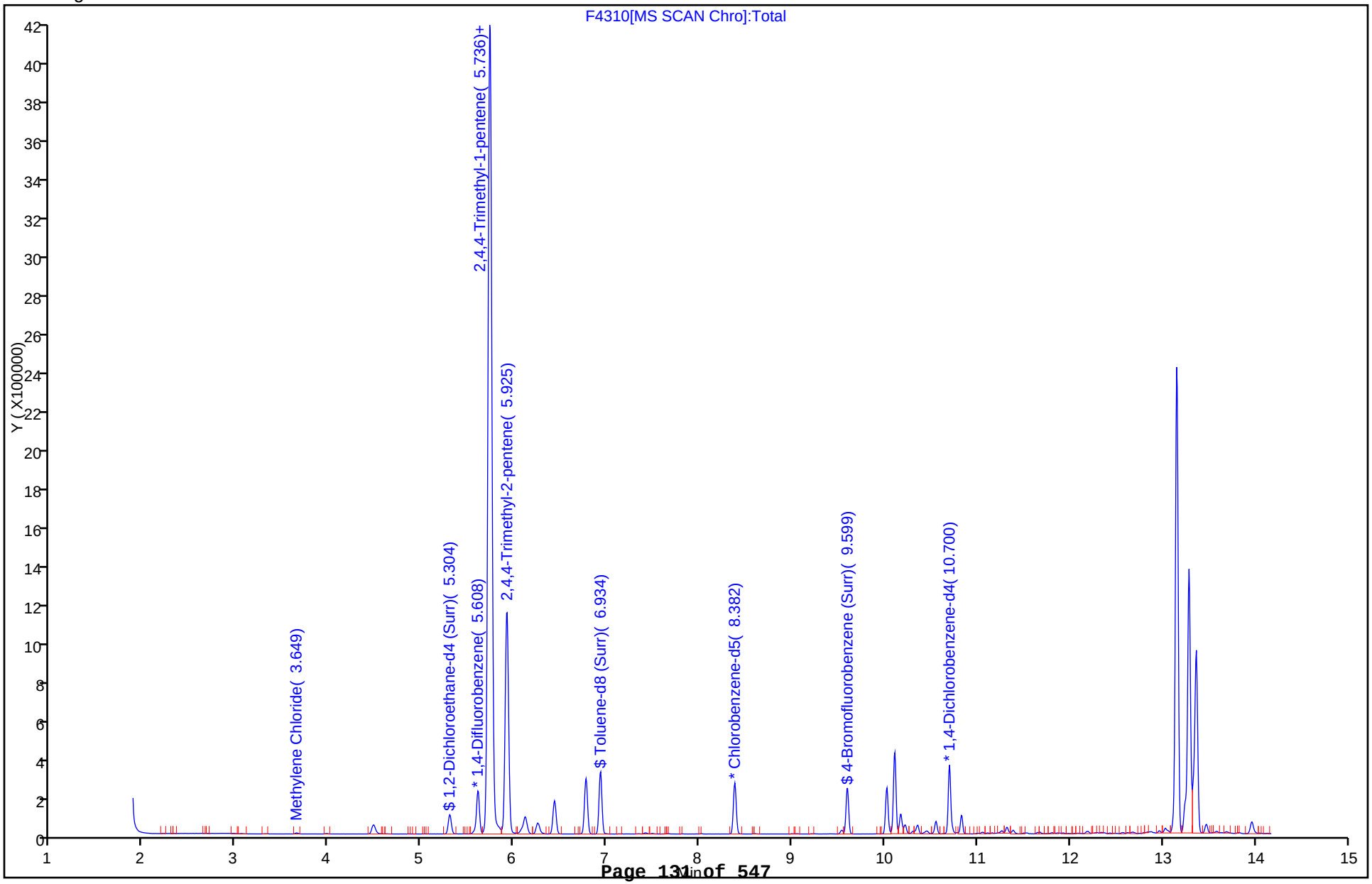
Processing Flags

Report Date: 14-Dec-2012 08:59:31 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4310.D | | |
| Injection Date: | 14-Dec-2012 03:41:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-486-8.0/10-XXX | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 14 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:

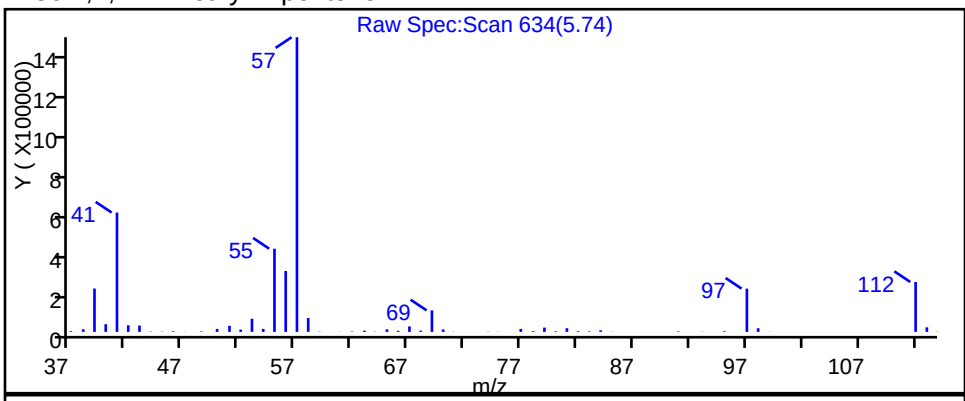


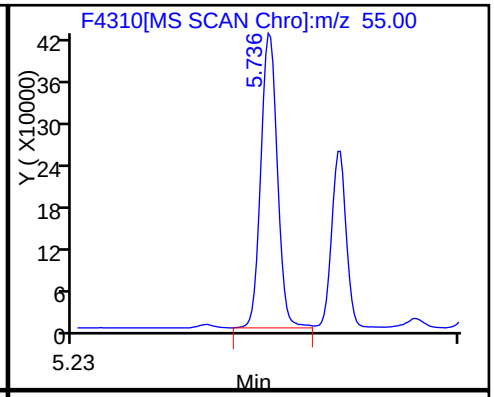
Report Date: 14-Dec-2012 08:59:31 Chrom Revision: 2.0 22-Oct-2012 16:30:48

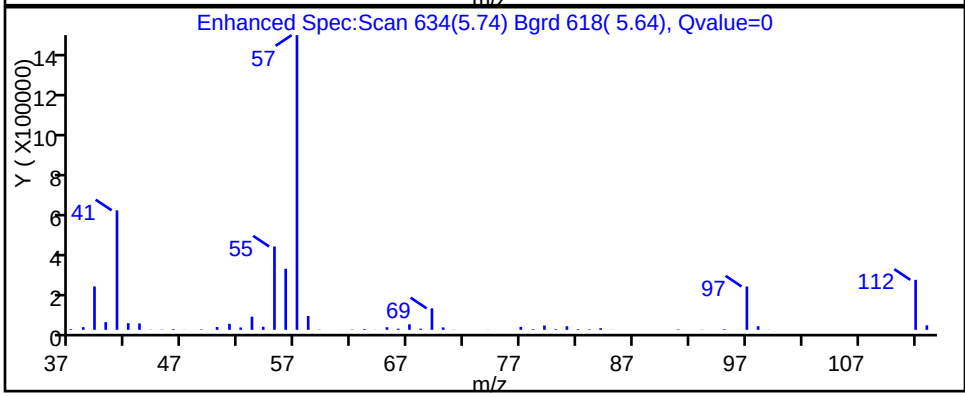
TestAmerica Buffalo

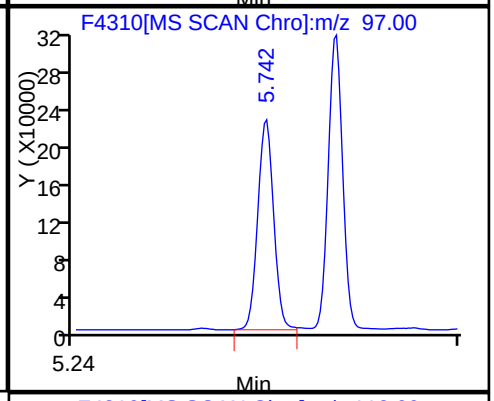
| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4310.D | | |
| Injection Date: | 14-Dec-2012 03:41:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-486-8.0/10-XXX | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 14 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

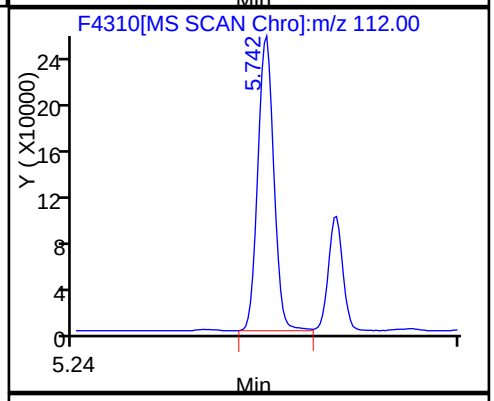
136 2,4,4-Trimethyl-1-pentene

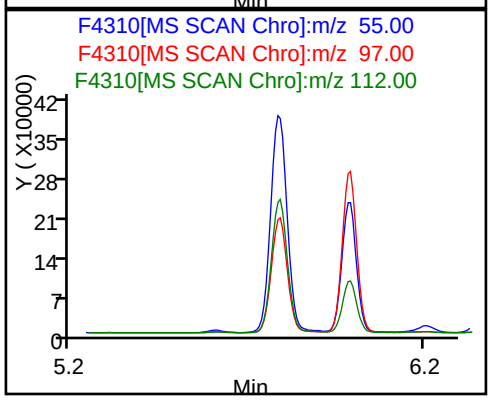


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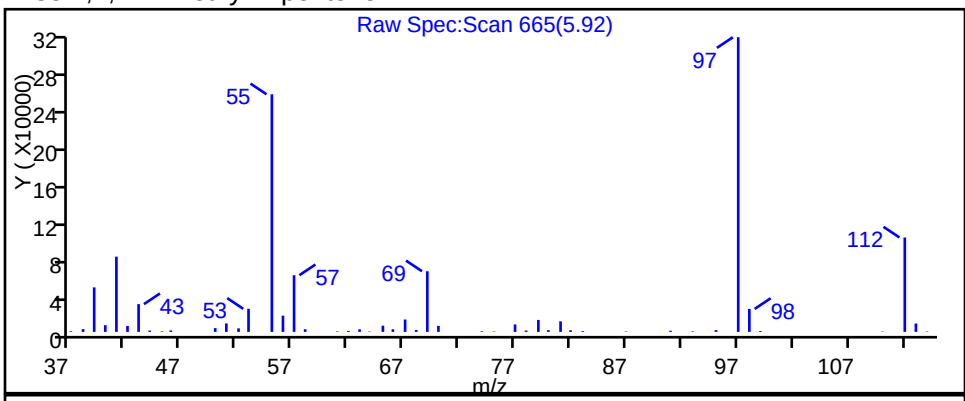
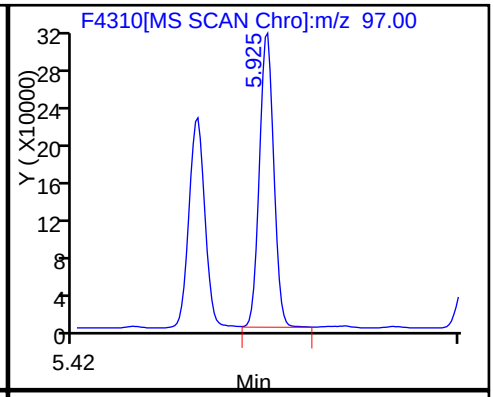
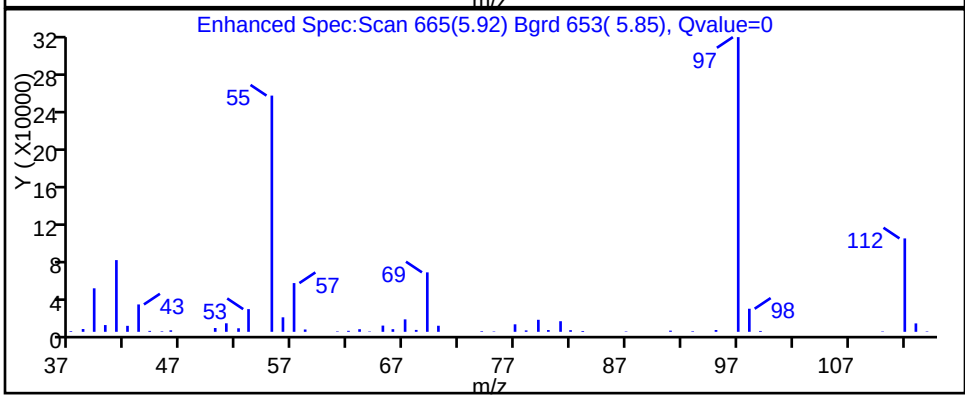
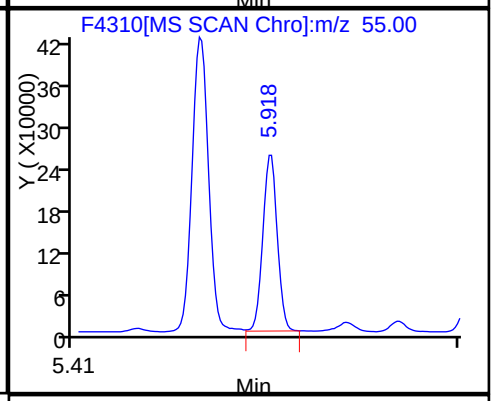
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4310.D | | |
| Injection Date: | 14-Dec-2012 03:41:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-486-8.0/10-XXX | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 14 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

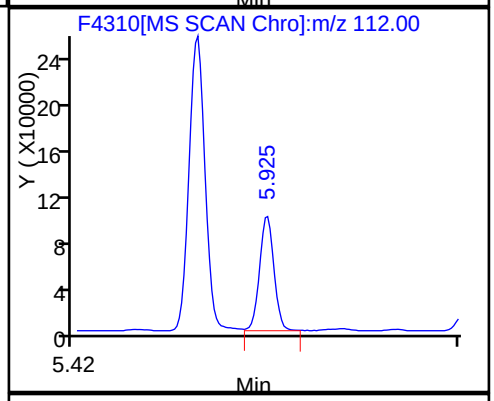
135 2,4,4-Trimethyl-2-pentene

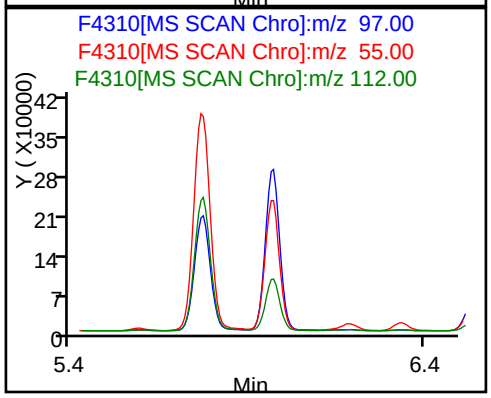


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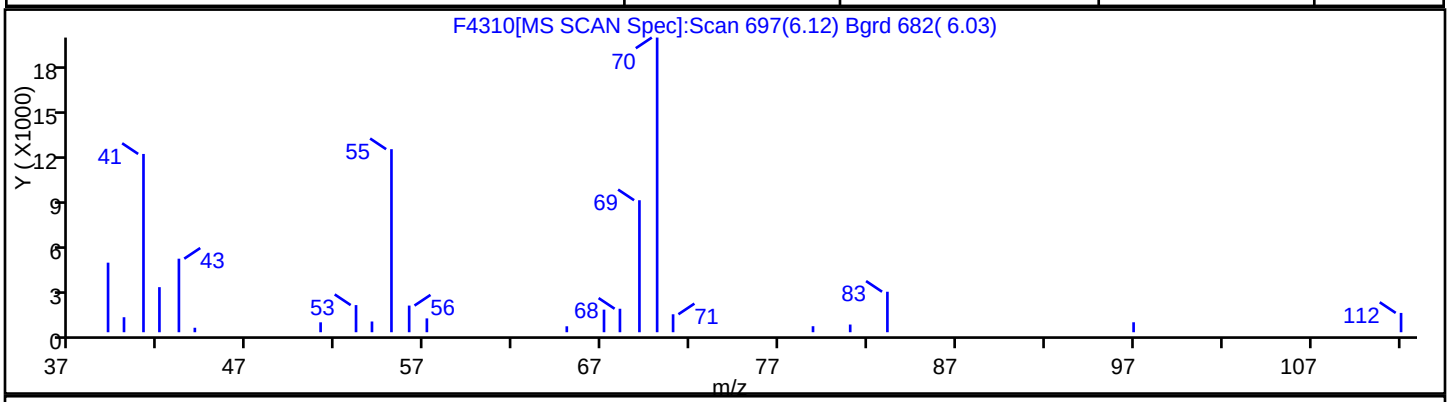
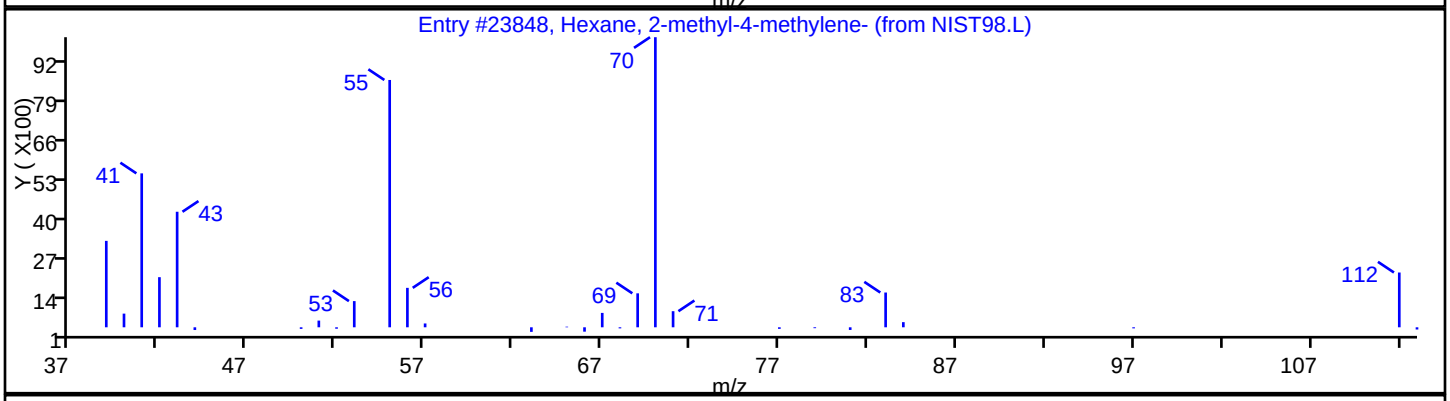
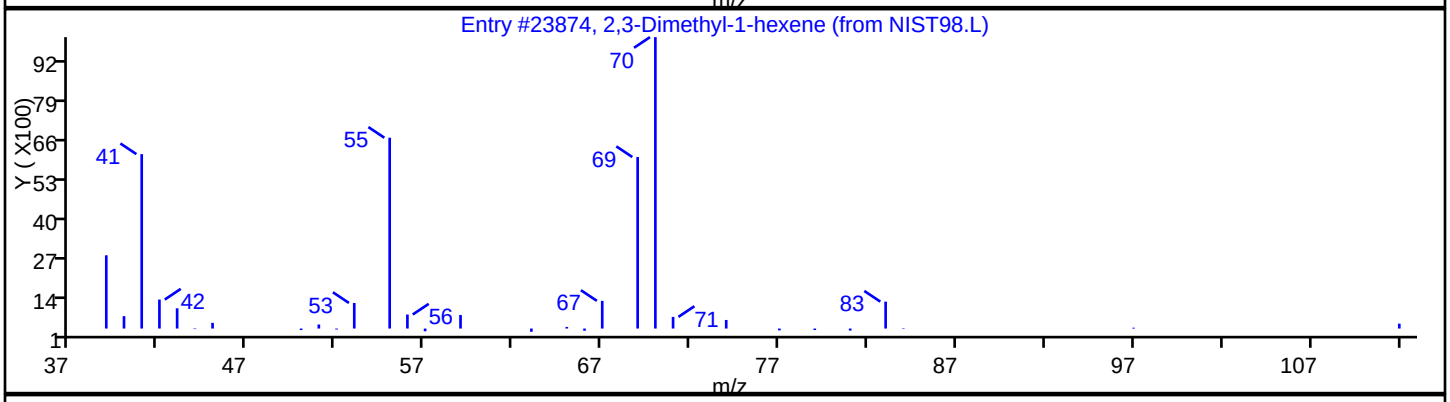
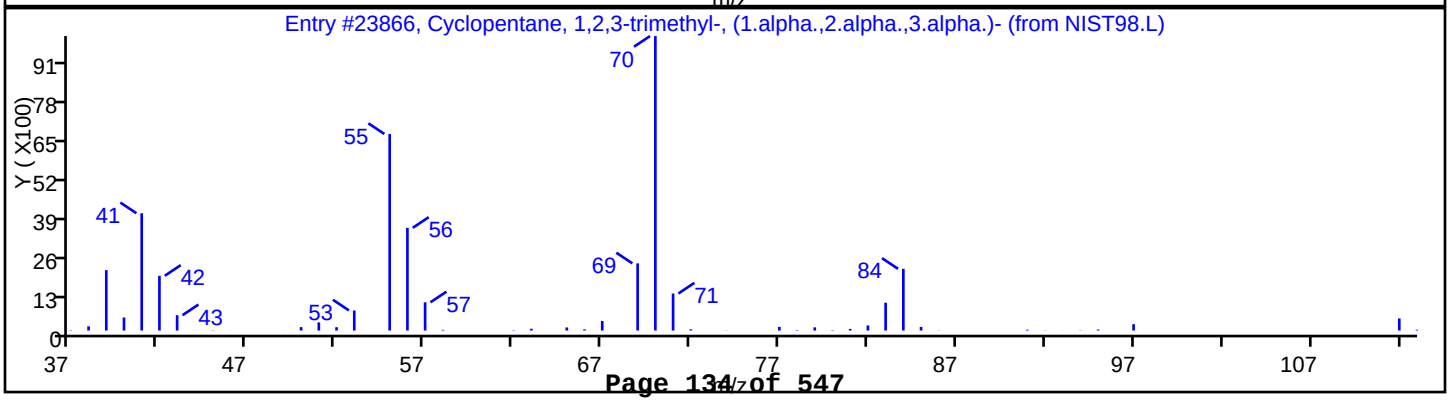
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4310.D | | |
| Injection Date: | 14-Dec-2012 03:41:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-486-8.0/10-XXX | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 14 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| Hexane, 2-methyl-4-methylene- | 3404-80-6 | NIST98.L | 23848 | 90 |
| 2,3-Dimethyl-1-hexene | 1674686-45-3 | NIST98.L | 23874 | 86 |
| Cyclopentane, 1,2,3-trimethyl-, (1.alpha | 2613-69-6 | NIST98.L | 23866 | 78 |



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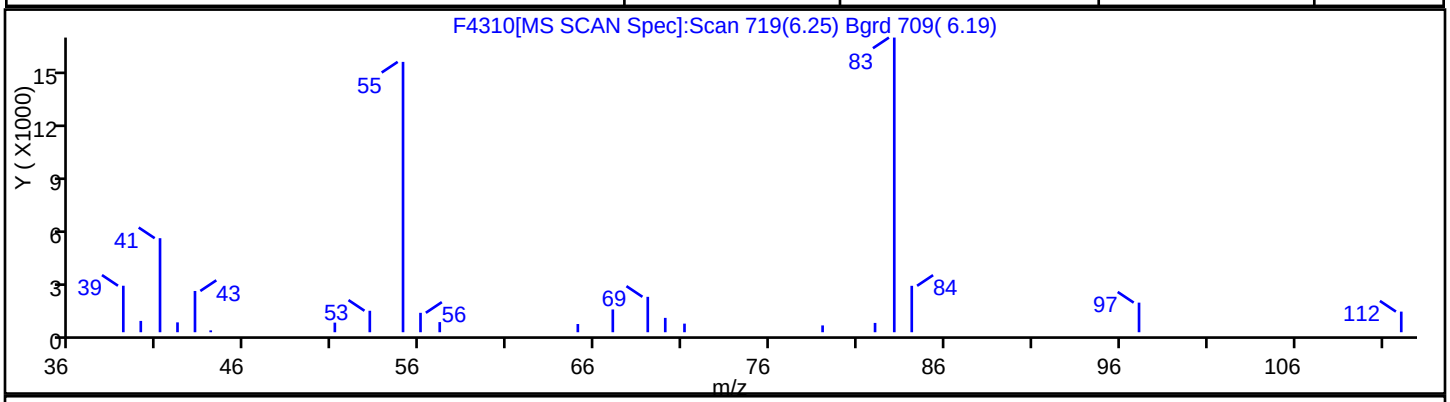
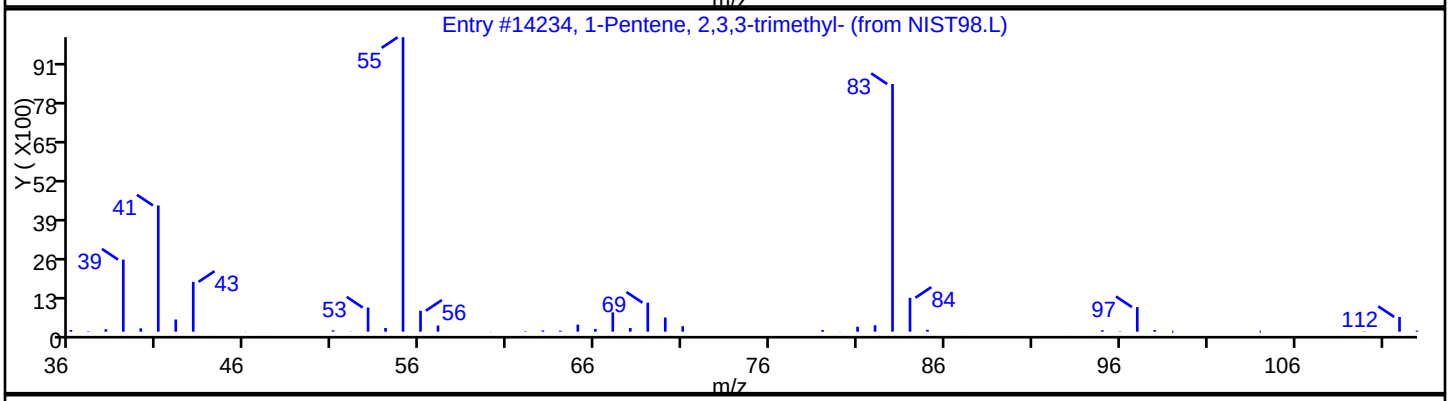
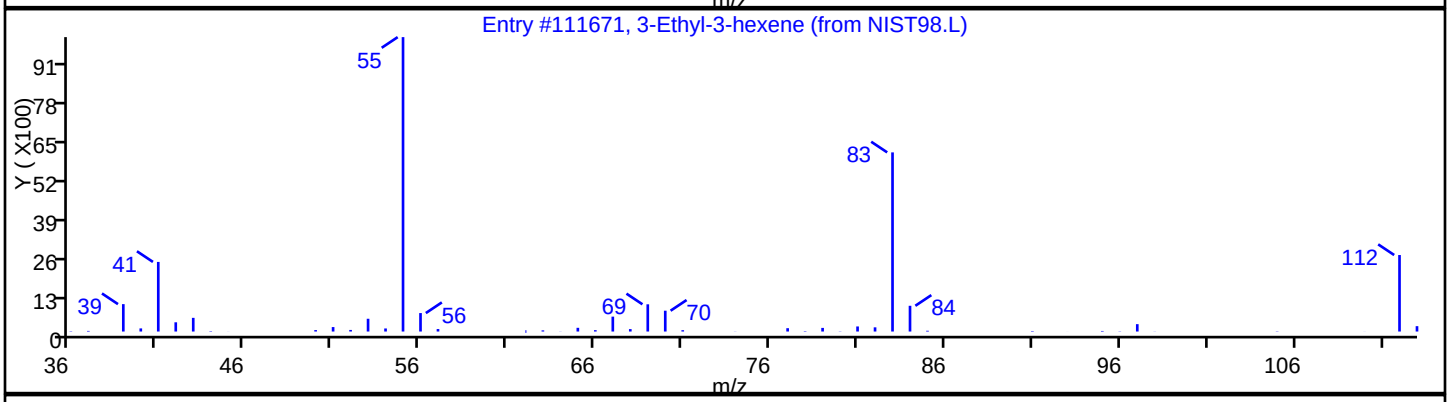
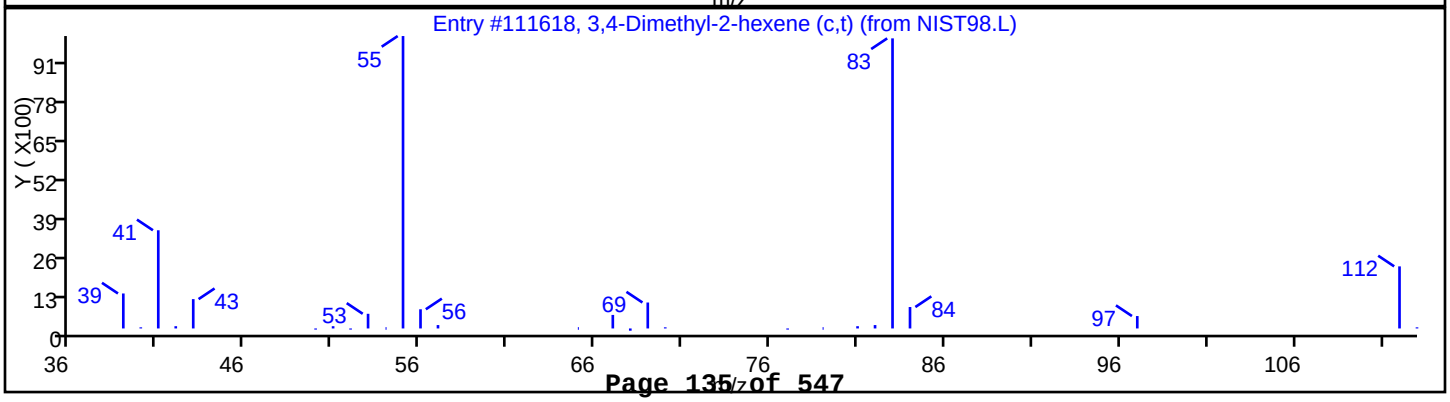
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4310.D | | |
| Injection Date: | 14-Dec-2012 03:41:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-486-8.0/10-XXX | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 14 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| 1-Pentene, 2,3,3-trimethyl- | 560-23-6 | NIST98.L | 14234 | 91 |
| 3-Ethyl-3-hexene | 16789-51-8 | NIST98.L | 111671 | 80 |
| 3,4-Dimethyl-2-hexene (c,t) | 2213-37-8 | NIST98.L | 111618 | 78 |



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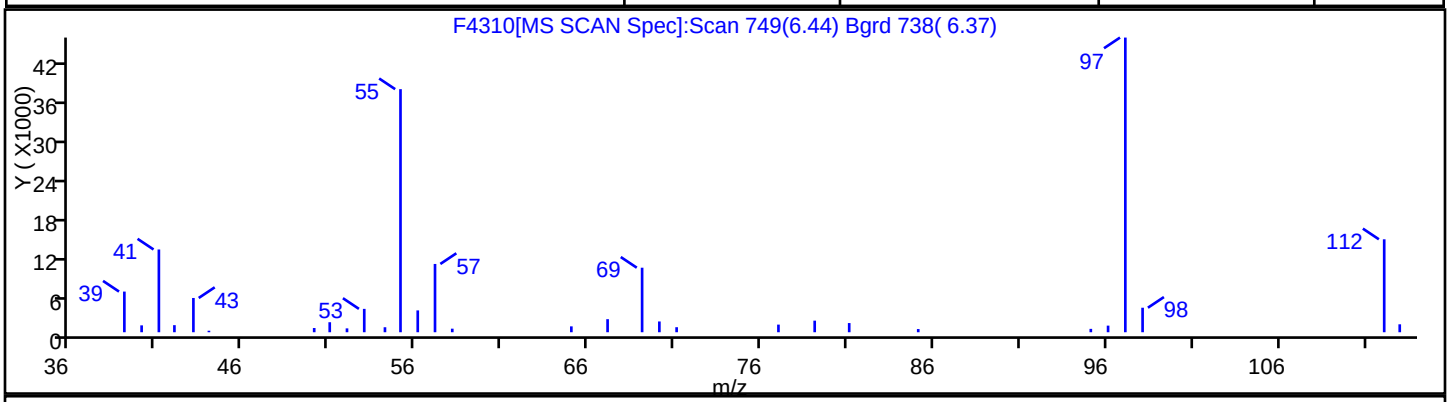
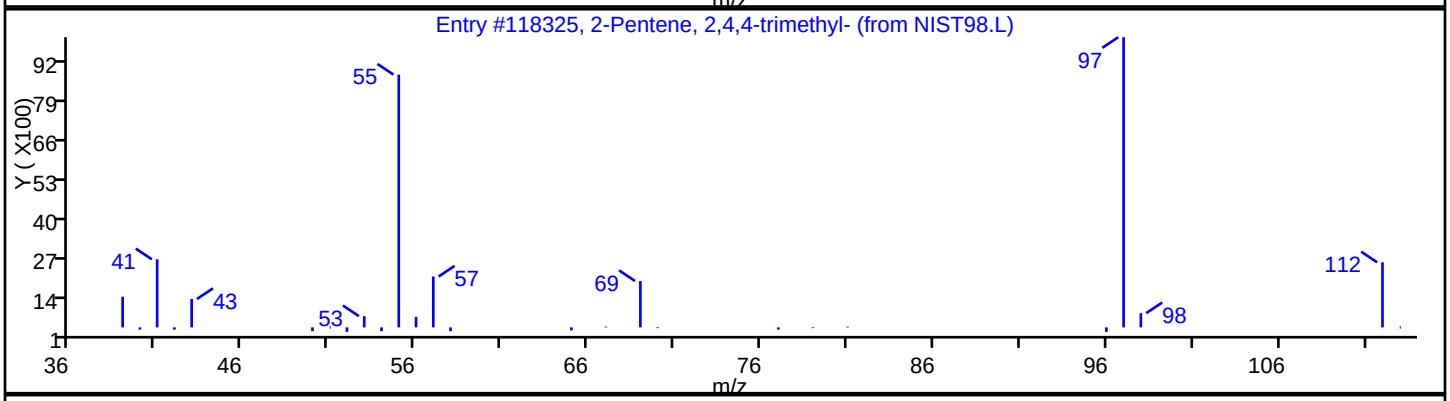
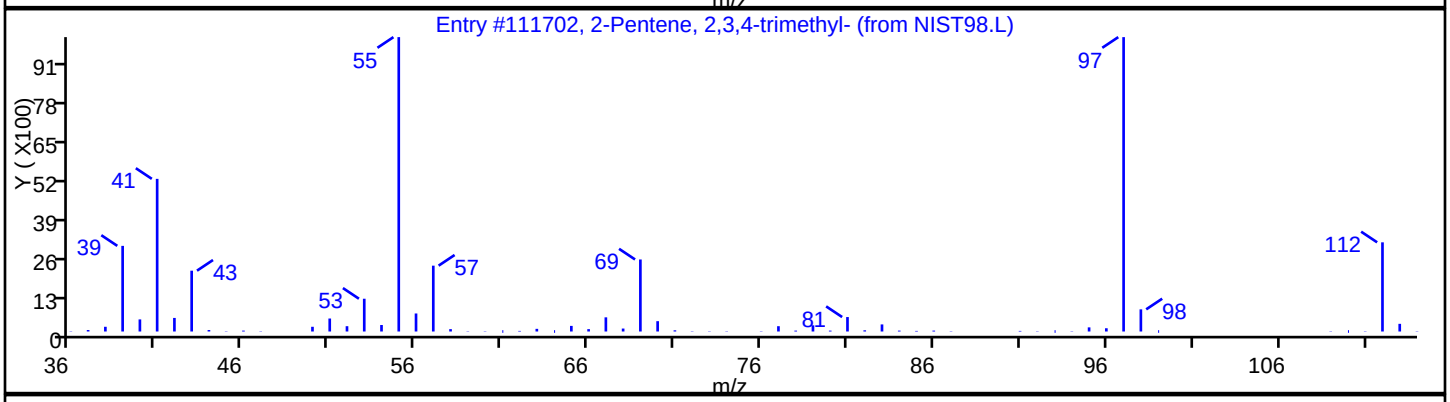
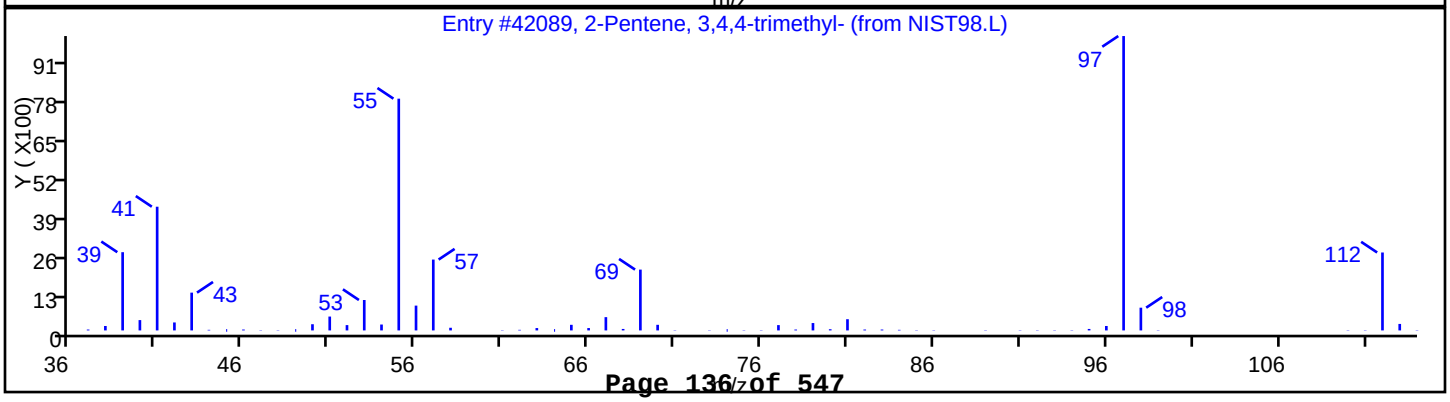
| Injection Date: | 14-Dec-2012 03:41:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-486-8.0/10-XXX | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 14 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| 2-Pentene, 2,4,4-trimethyl- | 107-40-4 | NIST98.L | 118325 | 94 |
| 2-Pentene, 2,3,4-trimethyl- | 565-77-5 | NIST98.L | 111702 | 87 |
| 2-Pentene, 3,4,4-trimethyl- | 598-96-9 | NIST98.L | 42089 | 87 |



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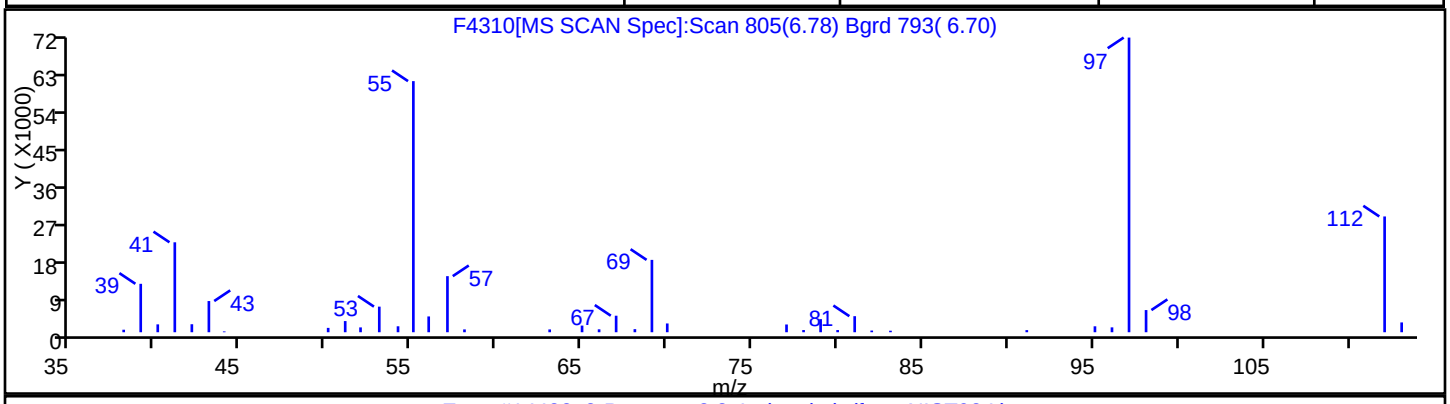
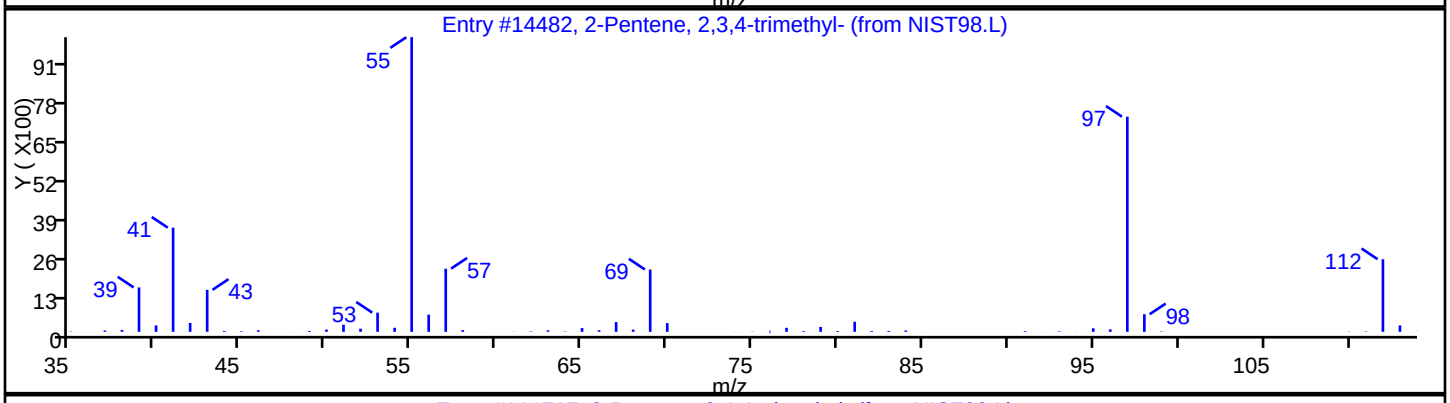
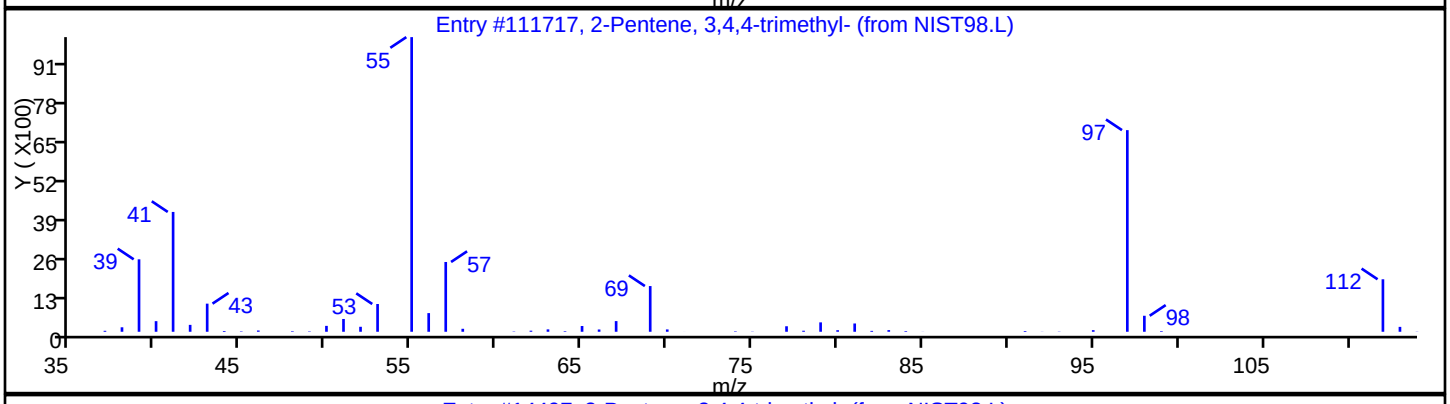
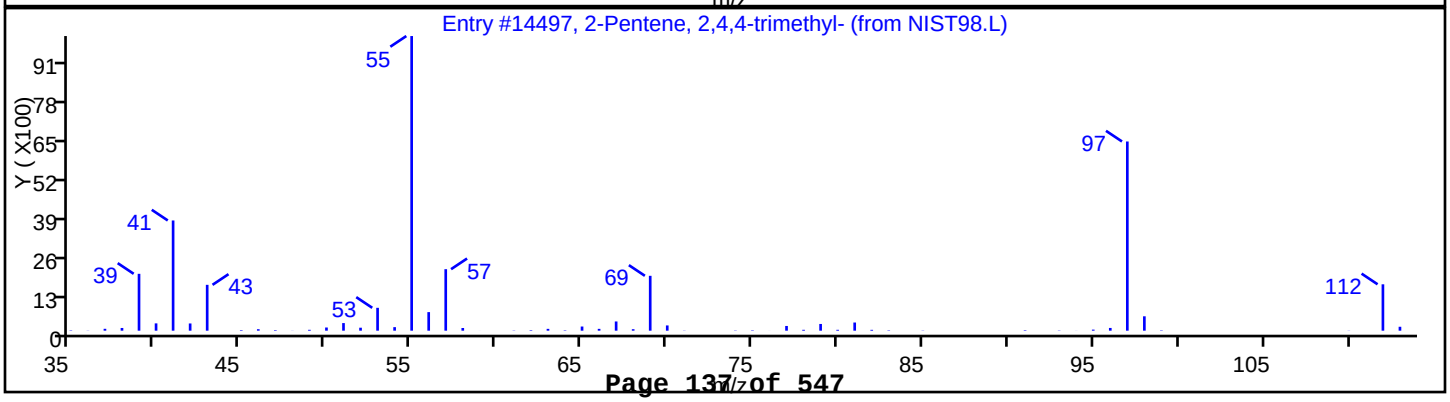
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4310.D | | |
| Injection Date: | 14-Dec-2012 03:41:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-486-8.0/10-XXX | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 14 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| 2-Pentene, 2,3,4-trimethyl- | 565-77-5 | NIST98.L | 14482 | 91 |
| 2-Pentene, 3,4,4-trimethyl- | 598-96-9 | NIST98.L | 111717 | 91 |
| 2-Pentene, 2,4,4-trimethyl- | 107-40-4 | NIST98.L | 14497 | 91 |



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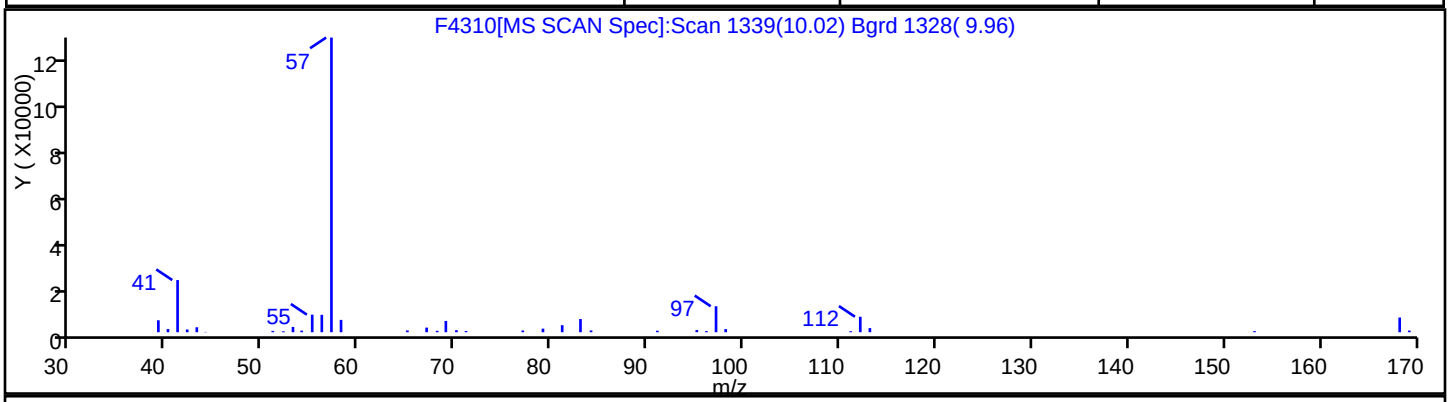
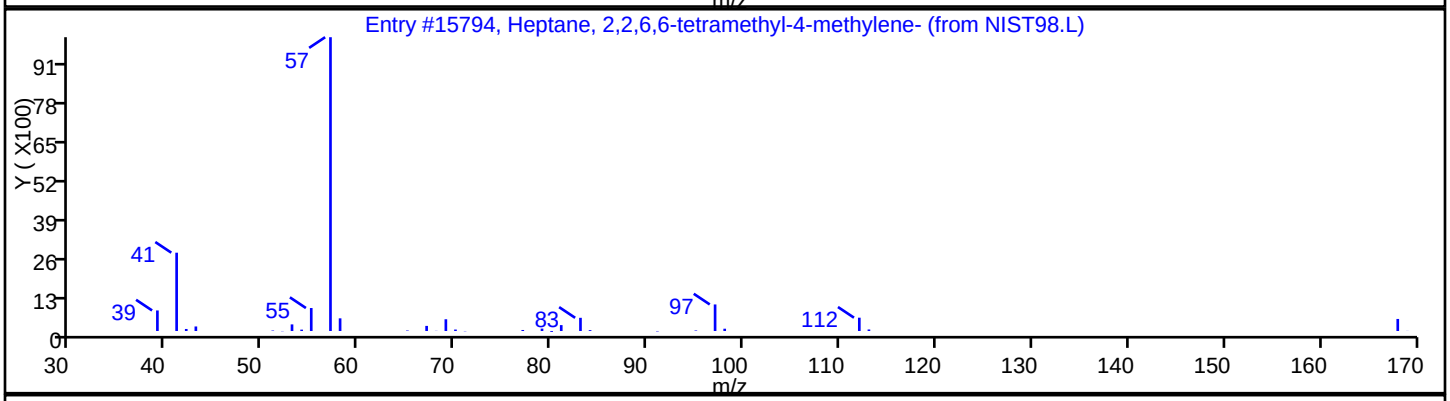
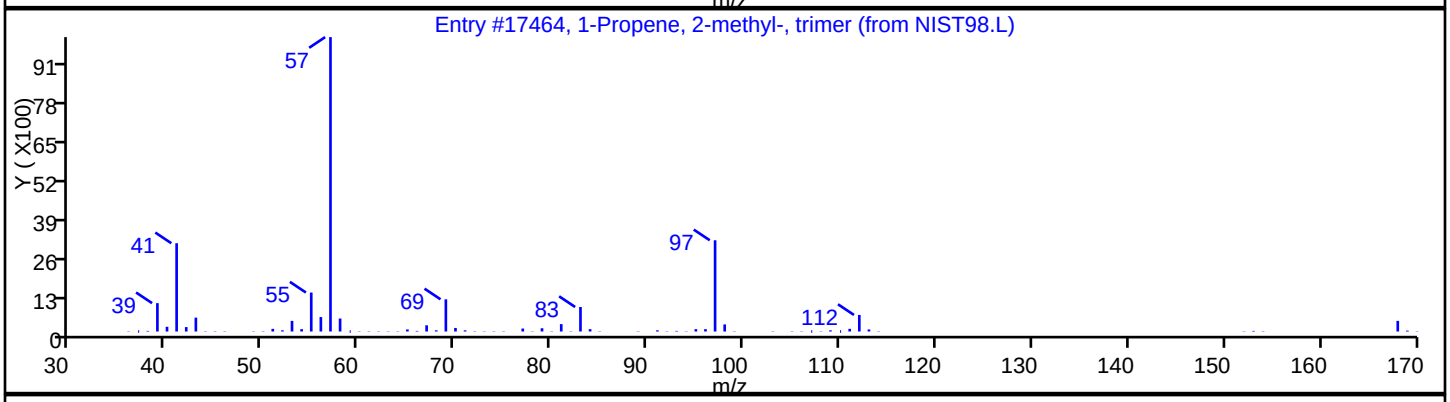
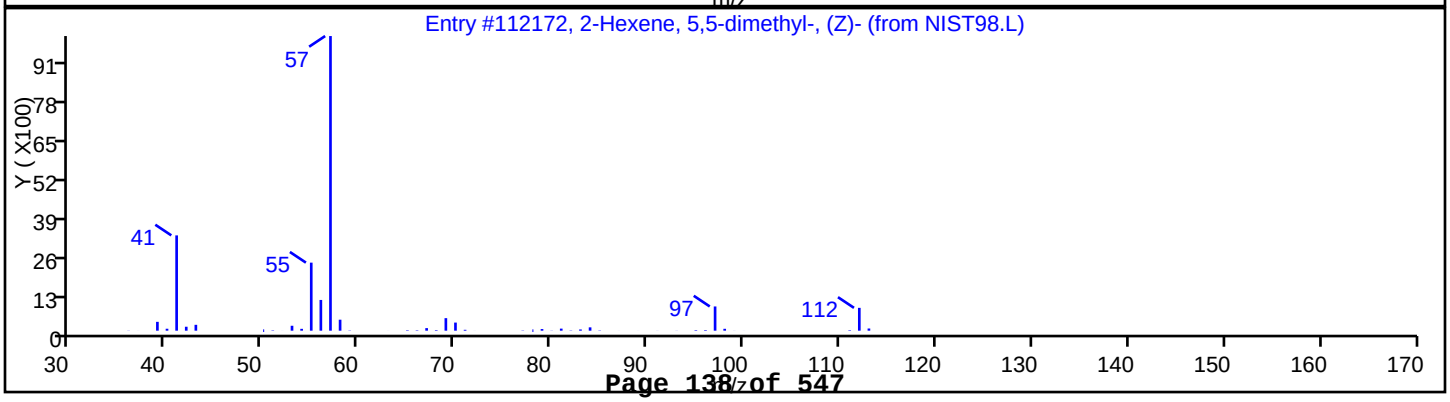
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4310.D | | |
| Injection Date: | 14-Dec-2012 03:41:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-486-8.0/10-XXX | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 14 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| Heptane, 2,2,6,6-tetramethyl-4-methylene | 141-70-8 | NIST98.L | 15794 | 76 |
| 1-Propene, 2-methyl-, trimer | 7756-94-7 | NIST98.L | 17464 | 50 |
| 2-Hexene, 5,5-dimethyl-, (Z)- | 39761-61-0 | NIST98.L | 112172 | 43 |



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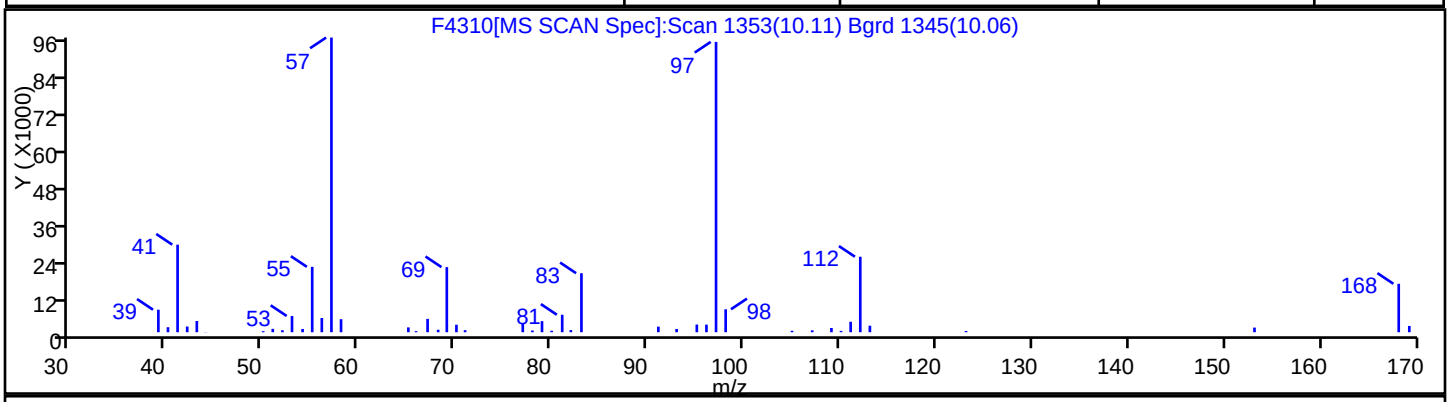
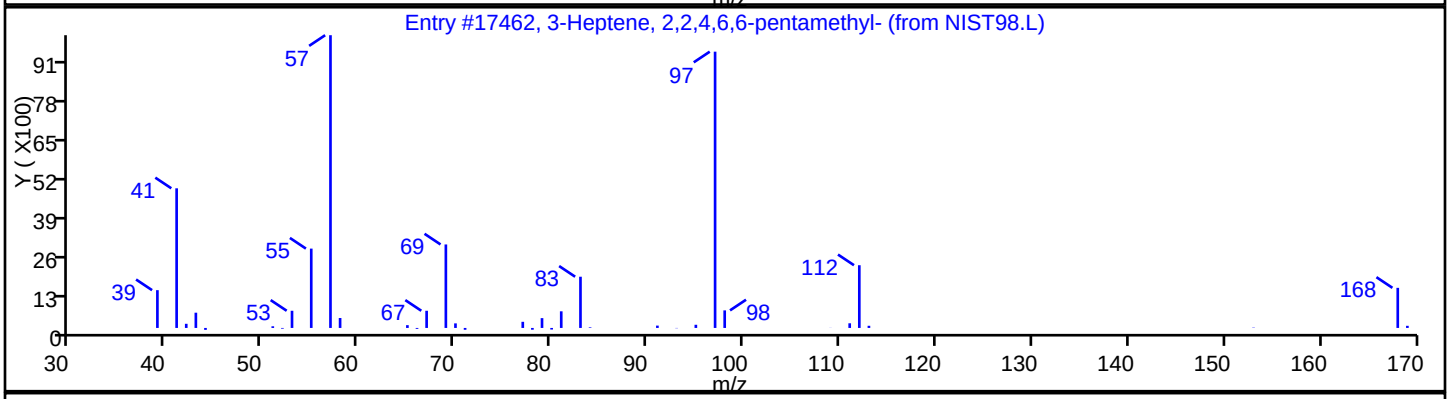
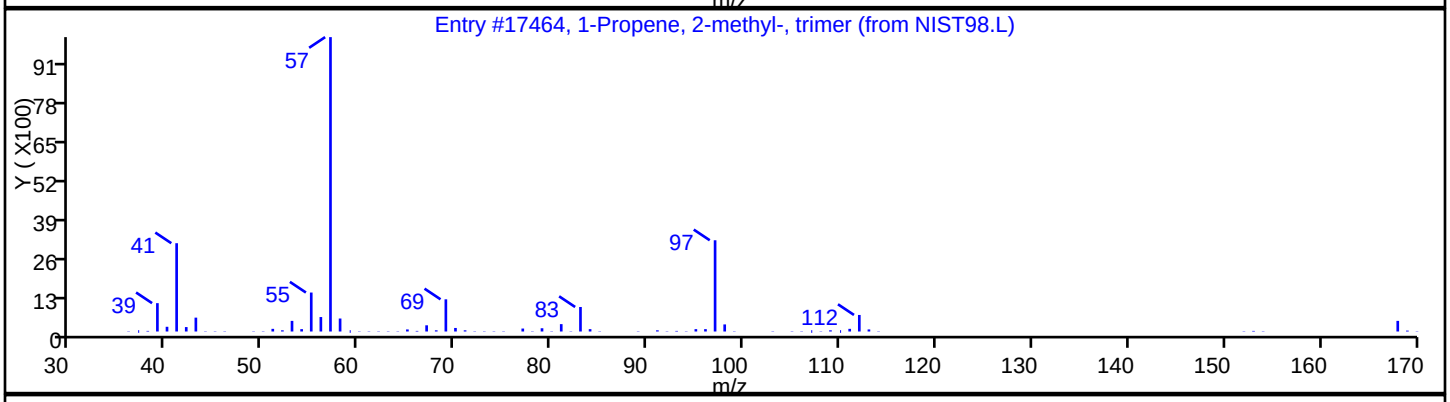
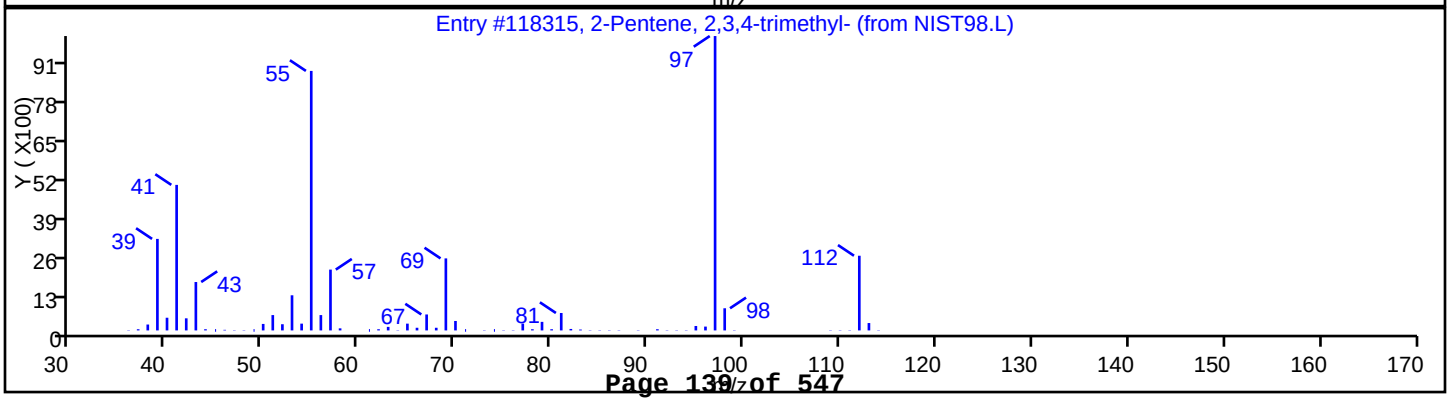
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4310.D | | |
| Injection Date: | 14-Dec-2012 03:41:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-486-8.0/10-XXX | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 14 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | 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 | 95 |
| 1-Propene, 2-methyl-, trimer | 7756-94-7 | NIST98.L | 17464 | 91 |
| 2-Pentene, 2,3,4-trimethyl- | 565-77-5 | NIST98.L | 118315 | 58 |



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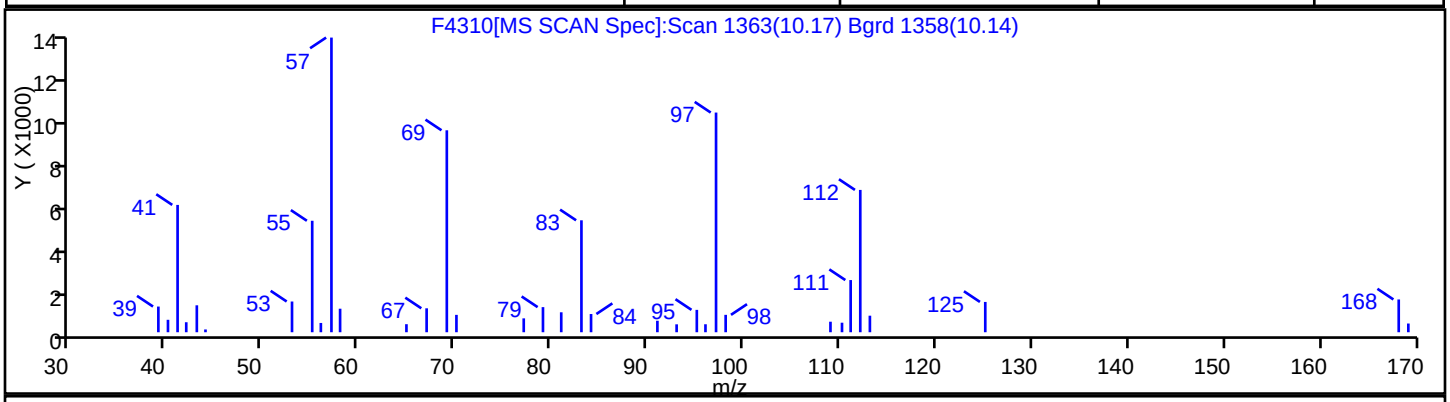
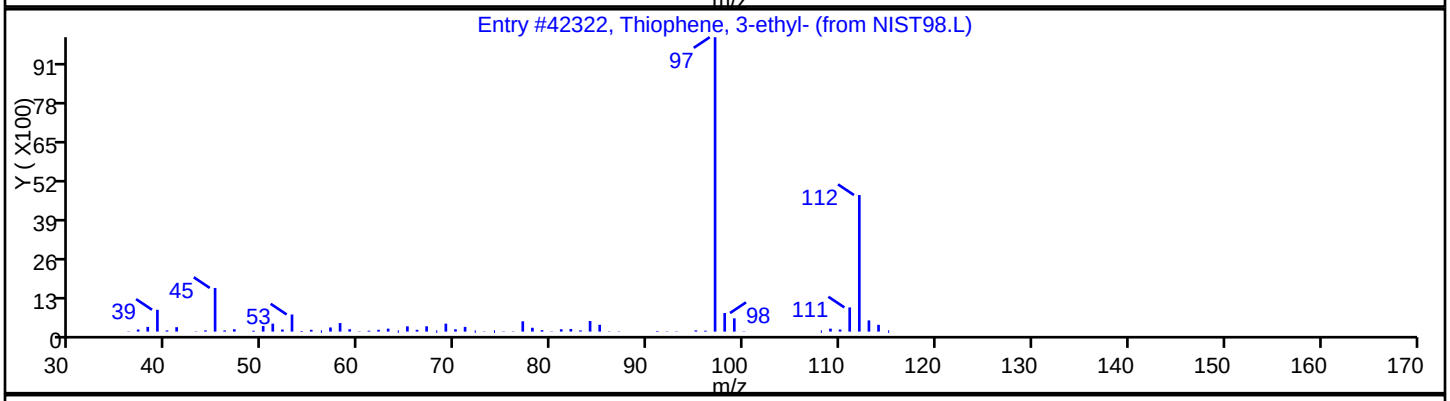
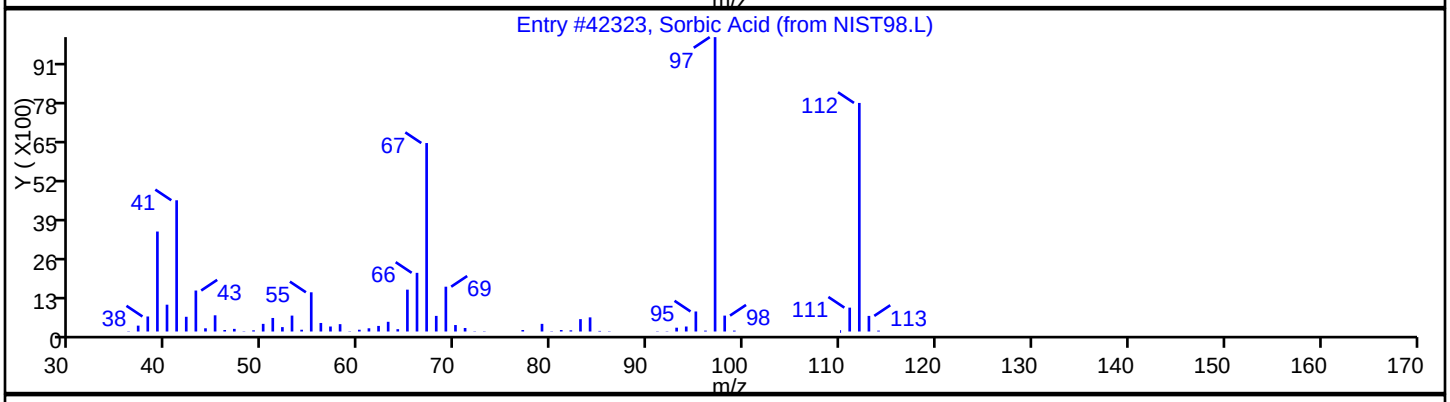
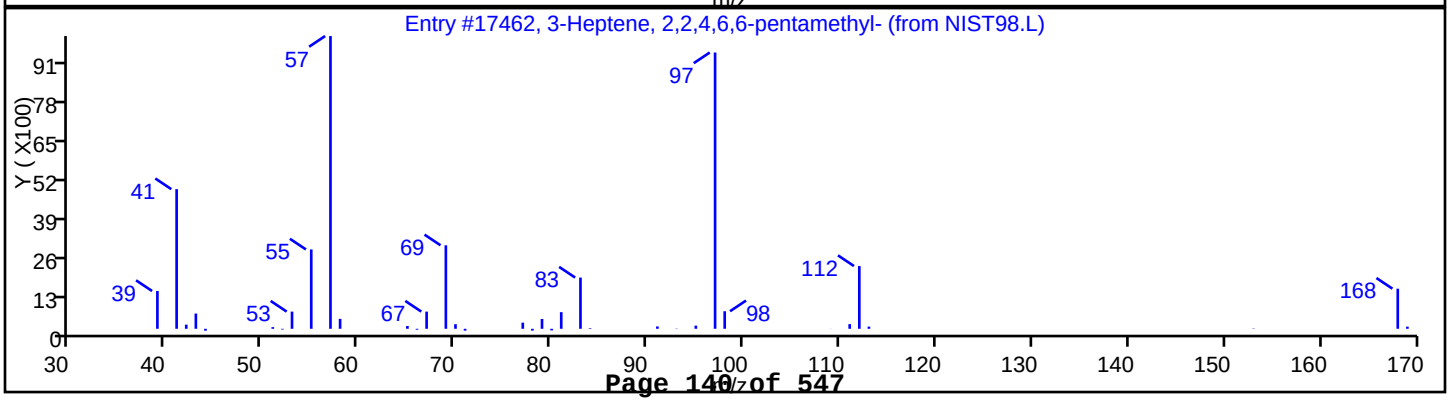
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4310.D | | |
| Injection Date: | 14-Dec-2012 03:41:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-486-8.0/10-XXX | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 14 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| Thiophene, 3-ethyl- | 1795-1-3 | NIST98.L | 42322 | 53 |
| Sorbic Acid | 110-44-1 | NIST98.L | 42323 | 50 |
| 3-Heptene, 2,2,4,6,6-pentamethyl- | 123-48-8 | NIST98.L | 17462 | 50 |



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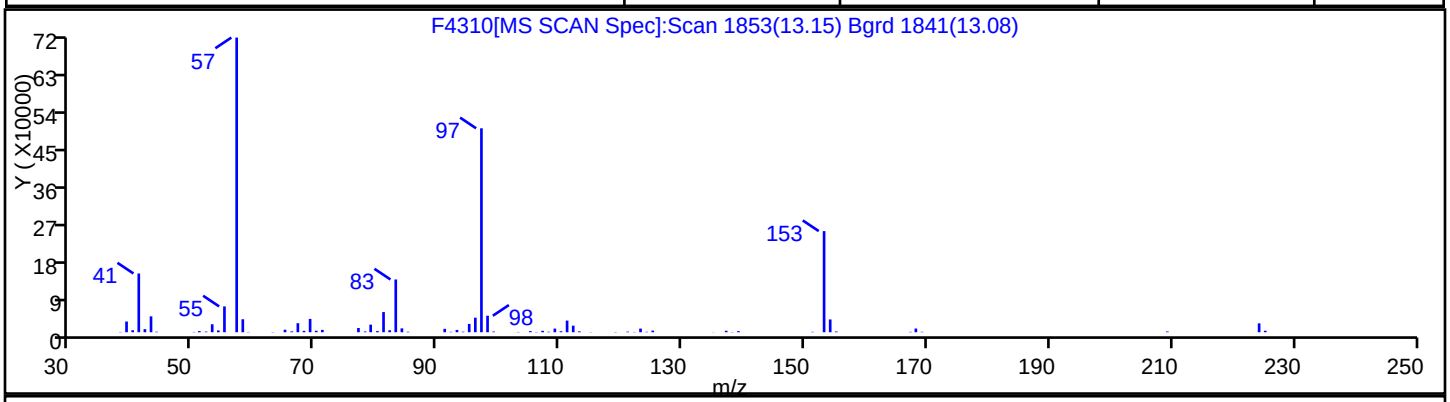
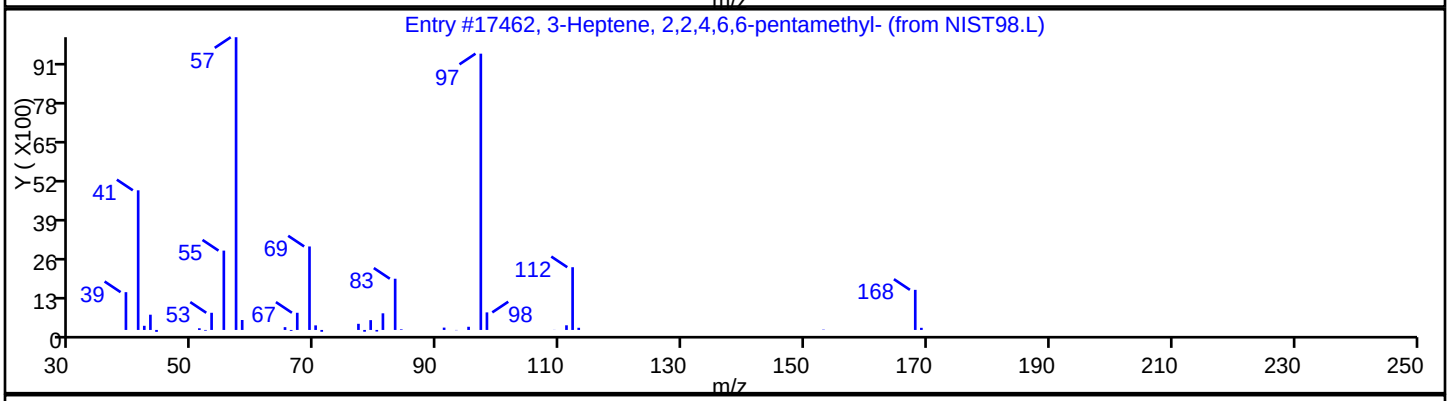
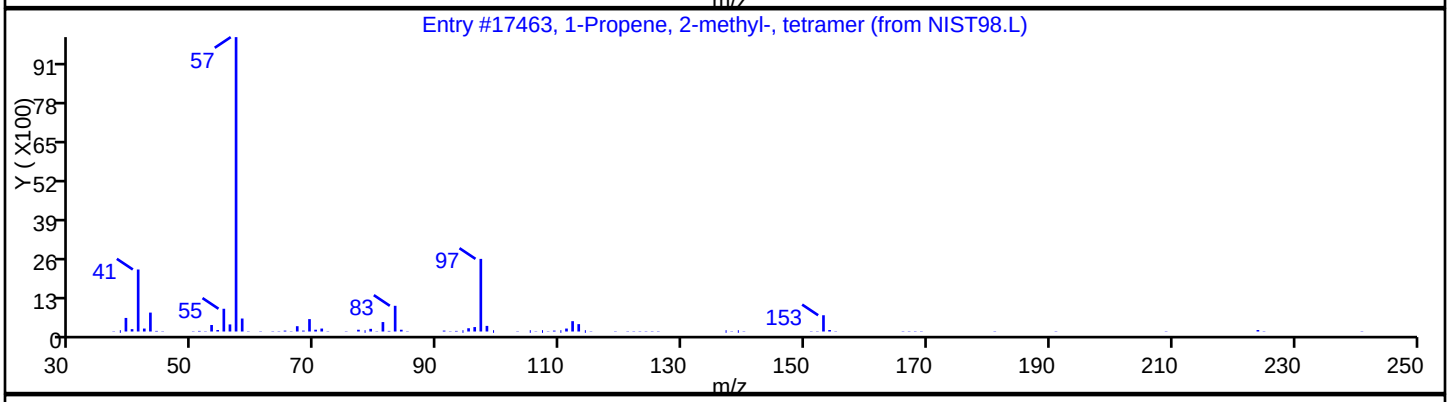
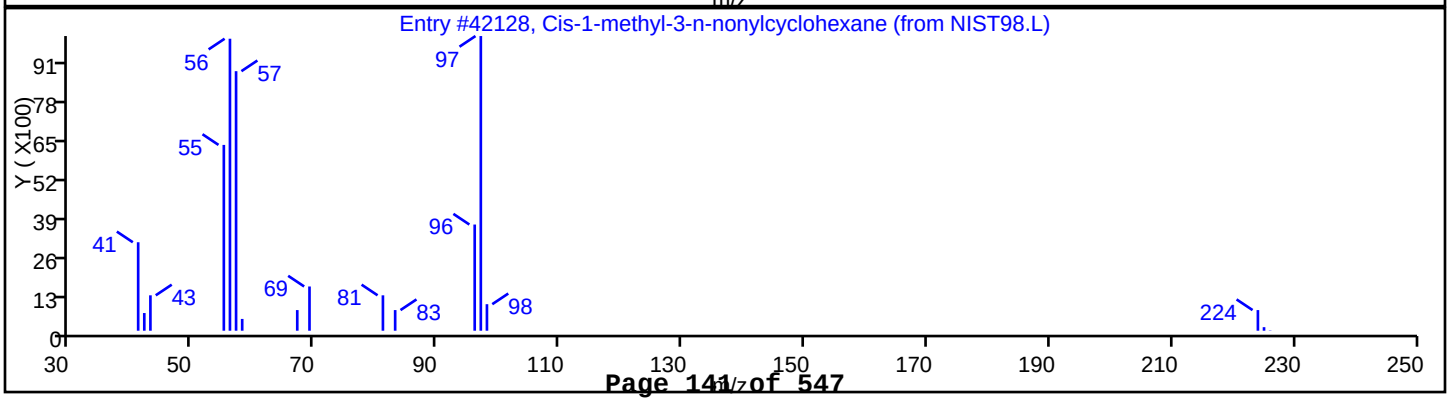
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4310.D | | |
| Injection Date: | 14-Dec-2012 03:41:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-486-8.0/10-XXX | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 14 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | 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 | 58 |
| 1-Propene, 2-methyl-, tetramer | 15220-85-6 | NIST98.L | 17463 | 53 |
| Cis-1-methyl-3-n-nonylcyclohexane | 1000215-44-0 | NIST98.L | 42128 | 32 |



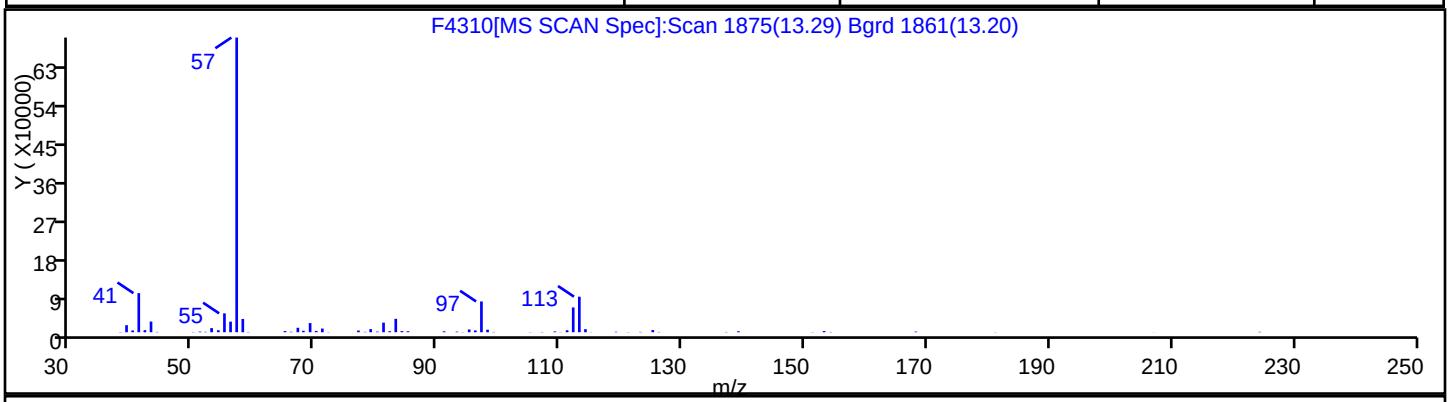



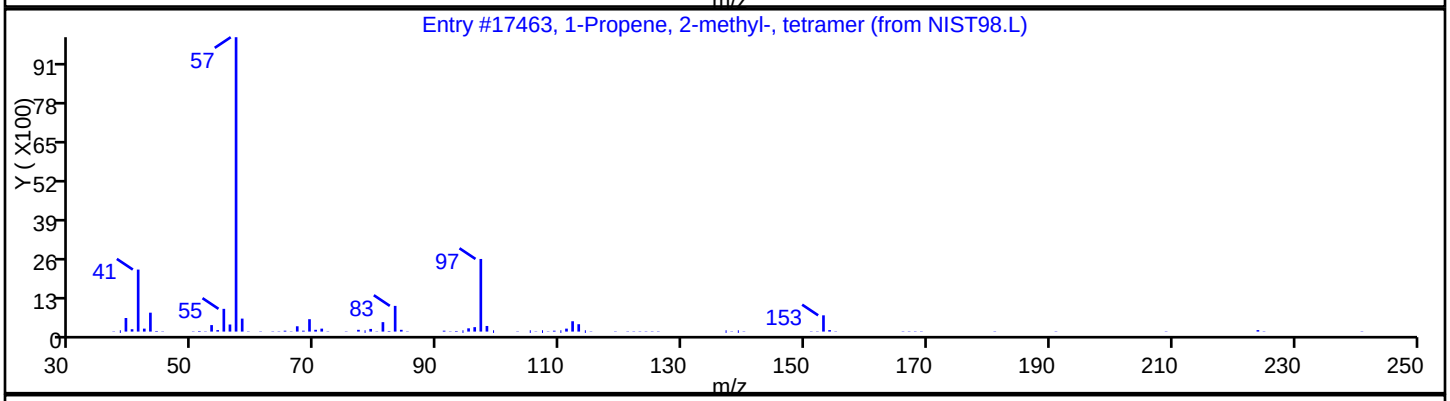
Report Date: 14-Dec-2012 08:59:31 Chrom Revision: 2.0 22-Oct-2012 16:30:48

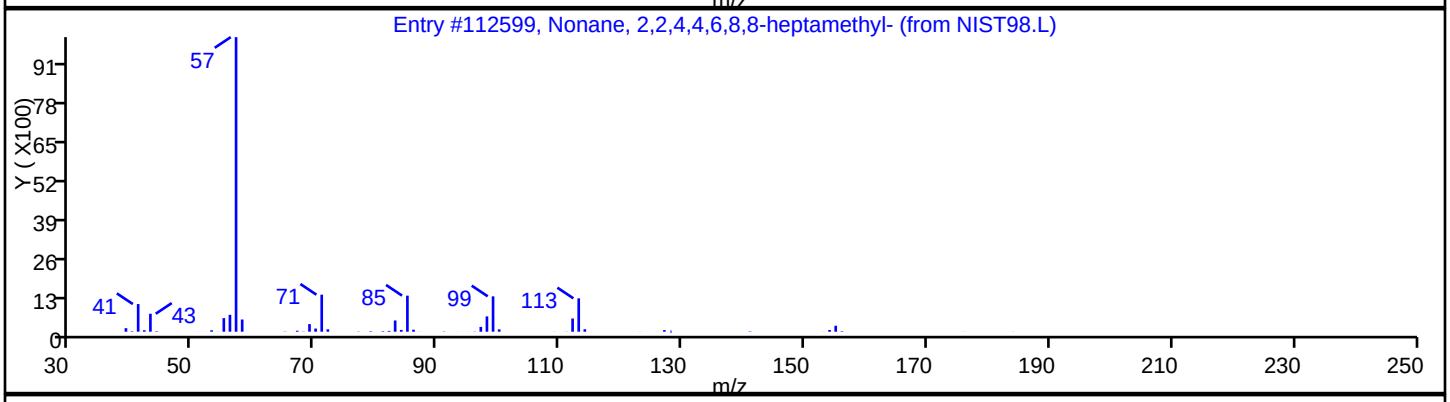
TestAmerica Buffalo

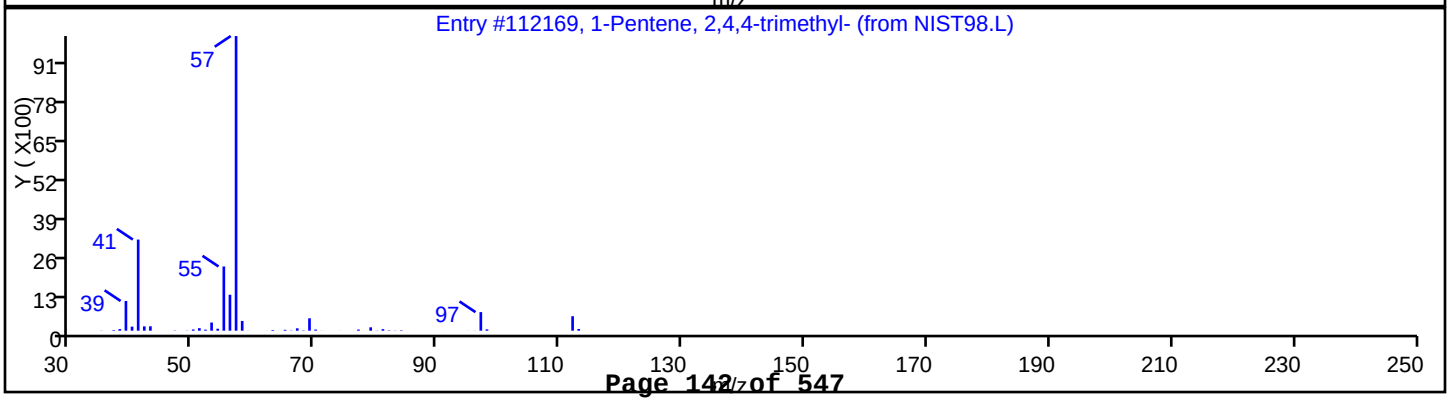
| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4310.D | | |
| Injection Date: | 14-Dec-2012 03:41:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-486-8.0/10-XXX | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 14 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| 1-Propene, 2-methyl-, tetramer | 15220-85-6 | NIST98.L | 17463 | 50 |
| Nonane, 2,2,4,4,6,8,8-heptamethyl- | 4390-4-9 | NIST98.L | 112599 | 45 |
| 1-Pentene, 2,4,4-trimethyl- | 107-39-1 | NIST98.L | 112169 | 37 |



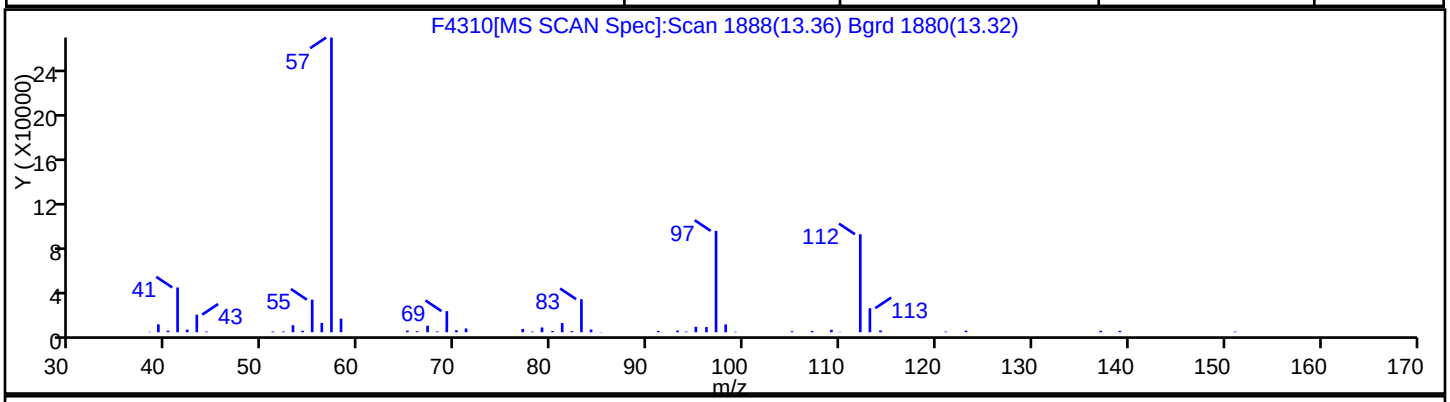



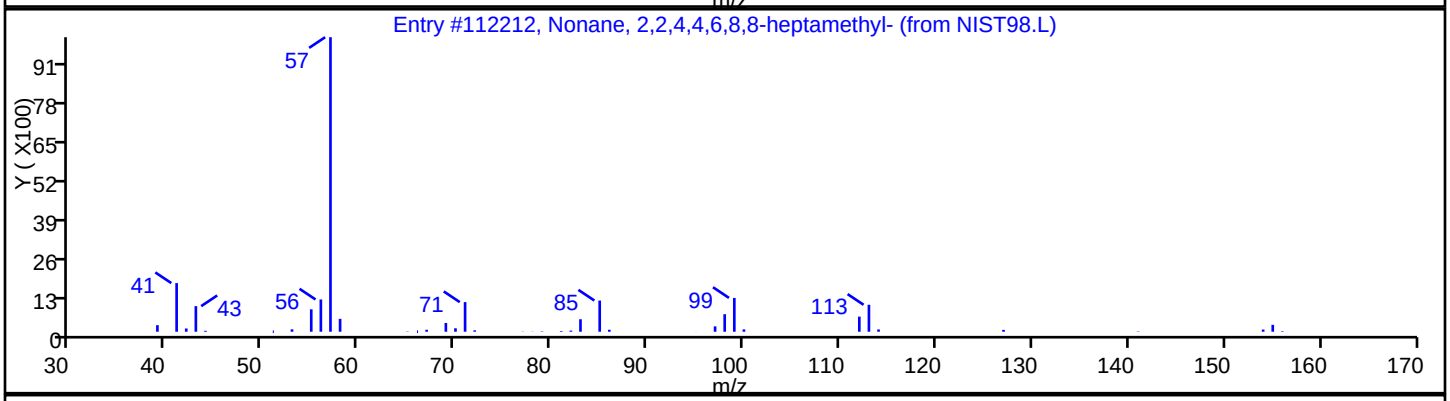
Report Date: 14-Dec-2012 08:59:31 Chrom Revision: 2.0 22-Oct-2012 16:30:48

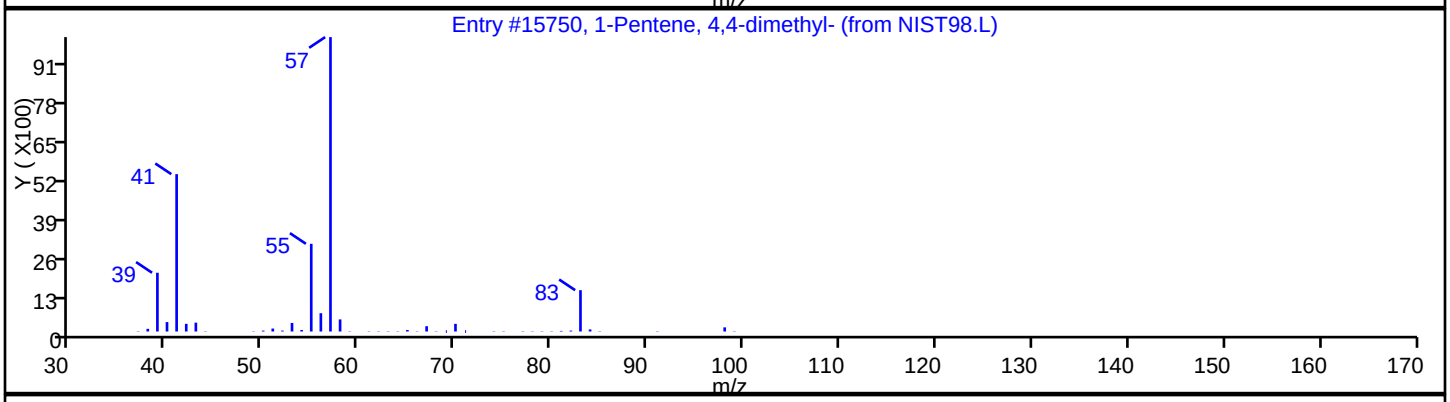
TestAmerica Buffalo

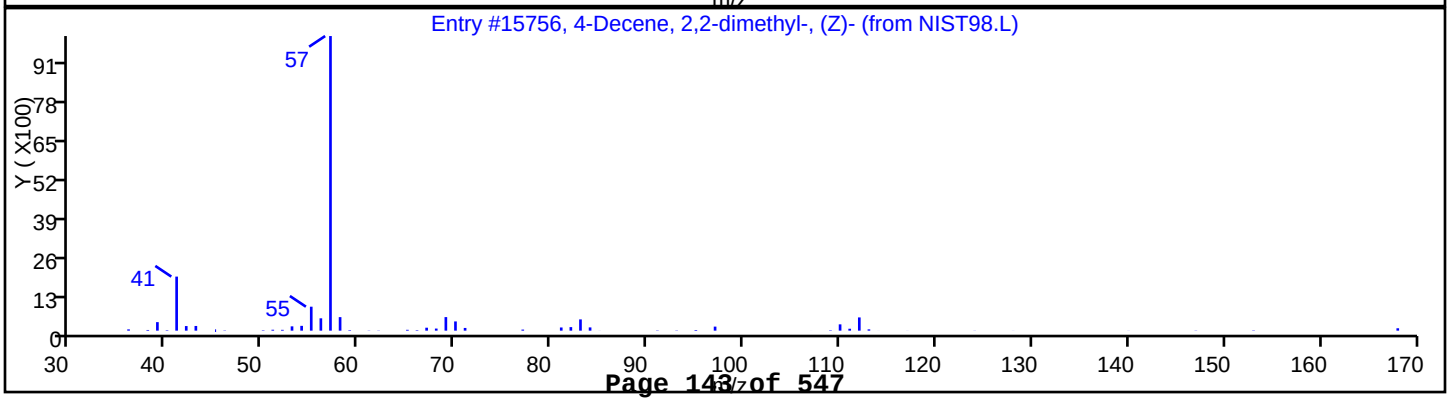
| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4310.D | | |
| Injection Date: | 14-Dec-2012 03:41:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-486-8.0/10-XXX | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 14 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| Nonane, 2,2,4,4,6,8,8-heptamethyl- | 4390-4-9 | NIST98.L | 112212 | 17 |
| 1-Pentene, 4,4-dimethyl- | 762-62-9 | NIST98.L | 15750 | 10 |
| 4-Decene, 2,2-dimethyl-, (Z)- | 55499-3-1 | NIST98.L | 15756 | 9 |



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-29976-1
SDG No.:
Client Sample ID: OC-SB-486-8.0/10-XXX DL
Lab Sample ID: 480-29976-7 DL
Matrix: Solid
Lab File ID: C25374.D
Analysis Method: 8260C
Date Collected: 12/11/2012 12:15
Sample wt/vol: 9.676(g)
Date Analyzed: 12/17/2012 15:08
Soil Aliquot Vol: 100 (uL)
Dilution Factor: 1
Soil Extract Vol.: 10(mL)
GC Column: ZB-624 (30) ID: 0.53(mm)
% Moisture: 8.8
Level: (low/med) Medium
Analysis Batch No.: 96178
Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 107-39-1 | 2,4,4-Trimethyl-1-pentene | 3700 | * | 280 | 24 |
| 107-40-4 | 2,4,4-Trimethyl-2-pentene | 850 | * | 280 | 30 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 2037-26-5 | Toluene-d8 (Surr) | 88 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 86 | | 70-130 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 82 | | 70-130 |

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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Client Sample ID: OC-SB-486-8.0/10-XXX DL Lab Sample ID: 480-29976-7 DL

Matrix: Solid Lab File ID: C25374.D

Analysis Method: 8260C Date Collected: 12/11/2012 12:15

Sample wt/vol: 9.676(g) Date Analyzed: 12/17/2012 15:08

Soil Aliquot Vol: 100 (uL) Dilution Factor: 1

Soil Extract Vol.: 10(mL) GC Column: ZB-624 (30) ID: 0.53(mm)

% Moisture: 8.8 Level: (low/med) Medium

Analysis Batch No.: 96178 Units: ug/Kg

Number TICs Found: 9 TIC Result Total: 11520

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| 556-67-2 | Cyclotetrasiloxane, octamethyl- | 12.55 | 300 | T H J N |
| 141-70-8 | Heptane, 2,2,6,6-tetramethyl-4-methylene | 13.21 | 890 | T H J N |
| 123-48-8 | 3-Heptene, 2,2,4,6,6-pentamethyl- | 13.28 | 1300 | T H J N |
| 645-62-5 | 2-Hexenal, 2-ethyl- | 13.31 | 230 | T H J N |
| 54411-2-8 | Cyclohexane, 1-methyl-3-pentyl- | 13.71 | 490 | T H J N |
| 123-48-8 | 3-Heptene, 2,2,4,6,6-pentamethyl- | 13.89 | 210 | T H J N |
| 123-48-8 | 3-Heptene, 2,2,4,6,6-pentamethyl- | 17.65 | 3800 | T H J N |
| 4390-4-9 | Nonane, 2,2,4,4,6,8,8-heptamethyl- | 17.90 | 2400 | T H J N |
| 55170-80-4 | 1-Decene, 2,4-dimethyl- | 18.04 | 1900 | T H J N |

TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121217-17619.b\C25374.D | | |
| Lims ID: | 480-29976-B-7-B | Client ID: | OC-SB-486-8.0/10-XXX |
| Inject. Date: | 17-Dec-2012 15:08:30 | Dil. Factor: | 1.0000 |
| Sample Type: | Client | | |
| Sample ID: | 480-29976-B-7-B | | |
| Misc. Info.: | 480-0017619-009 | | |
| Operator: | LH | Instrument ID: | HP5973C |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 60 |
| Lims Batch ID: | 96178 | Lims Sample ID: | 9 |
| Detector: | MS SCAN | | |

| | | | |
|---|---|---|---|
| Method: | \\Bufchrom\ChromData\HP5973C\20121217-17619.b\C-8260.m | | |
| Last Update: | 17-Dec-2012 21:31:58 | Calib Date: | 10-Dec-2012 03:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25063.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK018 | | |

First Level Reviewer: quirkp Date: 17-Dec-2012 21:31:58

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 9.588 | 9.588 | 0.0 | 96 | 615208 | 25.0 | |
| * 2 Chlorobenzene-d5 | 82 | 11.959 | 11.971 | -0.012 | 90 | 340730 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.011 | 14.011 | 0.0 | 94 | 296041 | 25.0 | |
| $ 4 1,2-Dichloroethane-d4 (Surr) | 67 | 9.339 | 9.339 | 0.0 | 0 | 122561 | 21.4 | |
| $ 5 Toluene-d8 (Surr) | 98 | 10.774 | 10.785 | -0.011 | 94 | 663119 | 21.9 | |
| $ 6 4-Bromofluorobenzene (Surr) | 174 | 12.920 | 12.920 | 0.0 | 84 | 196654 | 20.5 | |
| 10 Dichlorodifluoromethane | 85 | | 4.607 | | | | | |
| 12 Chloromethane | 50 | | 5.034 | | | | | 9 |
| 13 Vinyl chloride | 62 | | 5.235 | | | | | |
| 14 Bromomethane | 94 | | 5.876 | | | | | |
| 15 Chloroethane | 64 | | 6.006 | | | | | |
| 17 Trichlorofluoromethane | 101 | | 6.338 | | | | | |
| 18 Ethyl ether | 59 | | 6.659 | | | | | |
| 21 1,1,2-Trichloro-1,2,2-trifluoroe | 101 | | 6.919 | | | | | |
| 22 1,1-Dichloroethene | 96 | | 6.990 | | | | | |
| 23 Acetone | 43 | | 7.062 | | | | | |
| 26 Carbon disulfide | 76 | | 7.322 | | | | | |
| 27 Methyl acetate | 43 | | 7.346 | | | | | |
| 30 Methylene Chloride | 84 | | 7.524 | | | | | 9 |
| 32 Methyl tert-butyl ether | 73 | | 7.690 | | | | | |
| 34 trans-1,2-Dichloroethene | 96 | | 7.761 | | | | | |
| 36 Isopropyl ether | 45 | | 8.058 | | | | | |
| 39 1,1-Dichloroethane | 63 | | 8.153 | | | | | |
| 41 Tert-butyl ethyl ether | 59 | | 8.366 | | | | | |
| 43 2-Butanone (MEK) | 43 | | 8.615 | | | | | |
| 44 2,2-Dichloropropane | 77 | | 8.651 | | | | | |
| 45 cis-1,2-Dichloroethene | 96 | | 8.651 | | | | | |
| 48 Chlorobromomethane | 128 | | 8.888 | | | | | |
| 49 Tetrahydrofuran | 42 | | 8.888 | | | | | |
| 50 Chloroform | 83 | | 8.888 | | | | | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| 51 1,1,1-Trichloroethane | 97 | | 9.066 | | | | | |
| 52 Cyclohexane | 56 | | 9.101 | | | | | |
| 54 1,1-Dichloropropene | 75 | | 9.172 | | | | | |
| 55 Carbon tetrachloride | 117 | | 9.196 | | | | | |
| 56 Tert-amyl methyl ether | 73 | | 9.327 | | | | | |
| 57 Benzene | 78 | | 9.374 | | | | | 9 |
| 58 1,2-Dichloroethane | 62 | | 9.398 | | | | | |
| 141 2,4,4-Trimethyl-1-pentene | 55 | 9.694 | 9.694 | 0.0 | 0 | 306792 | 64.7 | |
| 140 2,4,4-Trimethyl-2-pentene | 97 | 9.837 | 9.837 | 0.0 | 0 | 241338 | 15.1 | |
| 62 Trichloroethene | 95 | | 9.848 | | | | | 9 |
| 64 Methylcyclohexane | 83 | | 9.979 | | | | | 9 |
| 65 1,2-Dichloropropane | 63 | | 10.050 | | | | | |
| 66 1,4-Dioxane | 88 | | 10.121 | | | | | |
| 67 Dibromomethane | 93 | | 10.192 | | | | | |
| 68 Dichlorobromomethane | 83 | 10.181 | 10.252 | -0.071 | 1 | 7400 | 0.5639 | |
| 77 trans-1,3-Dichloropropene | 75 | | 10.572 | | | | | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | | 10.607 | | | | | 9 |
| 74 Toluene | 92 | | 10.833 | | | | | 9 |
| 72 cis-1,3-Dichloropropene | 75 | | 10.987 | | | | | |
| 79 1,1,2-Trichloroethane | 83 | | 11.165 | | | | | |
| 80 2-Hexanone | 43 | | 11.248 | | | | | 9 |
| 81 Tetrachloroethene | 166 | | 11.283 | | | | | |
| 82 1,3-Dichloropropane | 76 | | 11.307 | | | | | |
| 83 Chlorodibromomethane | 129 | | 11.532 | | | | | |
| 84 Ethylene Dibromide | 107 | | 11.663 | | | | | |
| 88 Ethylbenzene | 91 | | 11.995 | | | | | 9 |
| 87 Chlorobenzene | 112 | | 11.995 | | | | | 9 |
| 89 1,1,1,2-Tetrachloroethane | 131 | | 12.030 | | | | | |
| 90 m-Xylene & p-Xylene | 106 | | 12.078 | | | | | 9 |
| 91 o-Xylene | 106 | | 12.433 | | | | | |
| 92 Styrene | 104 | | 12.445 | | | | | 9 |
| 94 Isopropylbenzene | 105 | | 12.694 | | | | | 9 |
| 95 Bromoform | 173 | | 12.730 | | | | | |
| 97 1,1,2,2-Tetrachloroethane | 83 | | 13.003 | | | | | |
| 99 N-Propylbenzene | 91 | | 13.050 | | | | | 9 |
| 100 1,2,3-Trichloropropane | 110 | | 13.086 | | | | | |
| 101 Bromobenzene | 156 | | 13.121 | | | | | |
| 102 1,3,5-Trimethylbenzene | 105 | | 13.169 | | | | | 9 |
| 103 2-Chlorotoluene | 126 | | 13.228 | | | | | |
| 105 4-Chlorotoluene | 126 | | 13.323 | | | | | |
| 106 tert-Butylbenzene | 134 | | 13.513 | | | | | |
| 107 1,2,4-Trimethylbenzene | 105 | | 13.548 | | | | | 9 |
| 109 sec-Butylbenzene | 105 | | 13.702 | | | | | 9 |
| 110 4-Isopropyltoluene | 119 | | 13.809 | | | | | 9 |
| 111 1,3-Dichlorobenzene | 146 | | 13.951 | | | | | |
| 113 1,4-Dichlorobenzene | 146 | | 14.034 | | | | | |
| 115 n-Butylbenzene | 91 | | 14.224 | | | | | 9 |
| 116 1,2-Dichlorobenzene | 146 | | 14.461 | | | | | |
| 117 1,2-Dibromo-3-Chloropropane | 75 | | 15.374 | | | | | |
| 119 1,2,4-Trichlorobenzene | 180 | | 16.430 | | | | | |
| 120 Hexachlorobutadiene | 225 | | 16.537 | | | | | |
| 121 Naphthalene | 128 | | 16.880 | | | | | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| 122 1,2,3-Trichlorobenzene | 180 | | 17.272 | | | | | |

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

TestAmerica Buffalo
Tentatively Identified Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121217-17619.b\C25374.D | | |
| Lims ID: | 480-29976-B-7-B | Client ID: | OC-SB-486-8.0/10-XXX |
| Inject. Date: | 17-Dec-2012 15:08:30 | Dil. Factor: | 1.0000 |
| Sample Type: | Client | | |
| Sample ID: | 480-29976-B-7-B | | |
| Misc. Info.: | 480-0017619-009 | | |
| Operator: | LH | Instrument ID: | HP5973C |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 60 |
| Lims Batch ID: | 96178 | Lims Sample ID: | 9 |
| Detector: | MS SCAN | | |
| Method: | \\Bufchrom\ChromData\HP5973C\20121217-17619.b\C-8260.m | | |
| Last Update: | 17-Dec-2012 21:31:58 | Calib Date: | 10-Dec-2012 03:44:30 |
| 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: | 0 | | |
| Process Host: | XAWRK018 | | |

First Level Reviewer: quirkp Date: 17-Dec-2012 21:31:58

Calibrated Tentative Identified Compound Results

| Compound | RT | Response | Amount ug/L | Flags |
|---|---|---|---|---|
| 2-Nitropropane | 10.572 | 10921 | 2.54 | |

Tentative Identified Compound Results

| RT | Response | Amount ug/L | Quant Cpnd | Qual | Lib Entry | Flags |
|---|---|---|---|---|---|---|
| 556-67-2 Cyclotetrasiloxane, octamethyl- | | | | | | |
| 12.552 | 386455 | 5.21 | 2 | 72 | 97367 | |
| 141-70-8 Heptane, 2,2,6,6-tetramethyl-4-methylene | | | | | | |
| 13.205 | 1544692 | 15.7 | 3 | 70 | 15794 | |
| 123-48-8 3-Heptene, 2,2,4,6,6-pentamethyl- | | | | | | |
| 13.276 | 2277683 | 23.2 | 3 | 97 | 17462 | |
| 645-62-5 2-Hexenal, 2-ethyl- | | | | | | |
| 13.311 | 391854 | 3.99 | 3 | 5 | 111278 | |
| 54411-2-8 Cyclohexane, 1-methyl-3-pentyl- | | | | | | |
| 13.714 | 845106 | 8.61 | 3 | 80 | 42071 | |
| 123-48-8 3-Heptene, 2,2,4,6,6-pentamethyl- | | | | | | |
| 13.892 | 367199 | 3.74 | 3 | 43 | 17462 | |
| 123-48-8 3-Heptene, 2,2,4,6,6-pentamethyl- | | | | | | |
| 17.651 | 6638792 | 67.7 | 3 | 50 | 17462 | |
| 4390-4-9 Nonane, 2,2,4,4,6,8,8-heptamethyl- | | | | | | |
| 17.901 | 4177892 | 42.6 | 3 | 64 | 112599 | |
| 55170-80-4 1-Decene, 2,4-dimethyl- | | | | | | |
| 18.043 | 3320807 | 33.8 | 3 | 9 | 16326 | |

Report Date: 17-Dec-2012 21:31:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48
Data File: \\Bufchrom\ChromData\HP5973C\20121217-17619.b\C25374.D
Quantitation Compounds

| Compound | RT | Response | Amount ug/L |
|---|---|---|---|
| * 2 Chlorobenzene-d5 | 11.959 | 1853151 | 25.0 |
| * 3 1,4-Dichlorobenzene-d4 | 14.011 | 2452679 | 25.0 |

QC Flag Legend

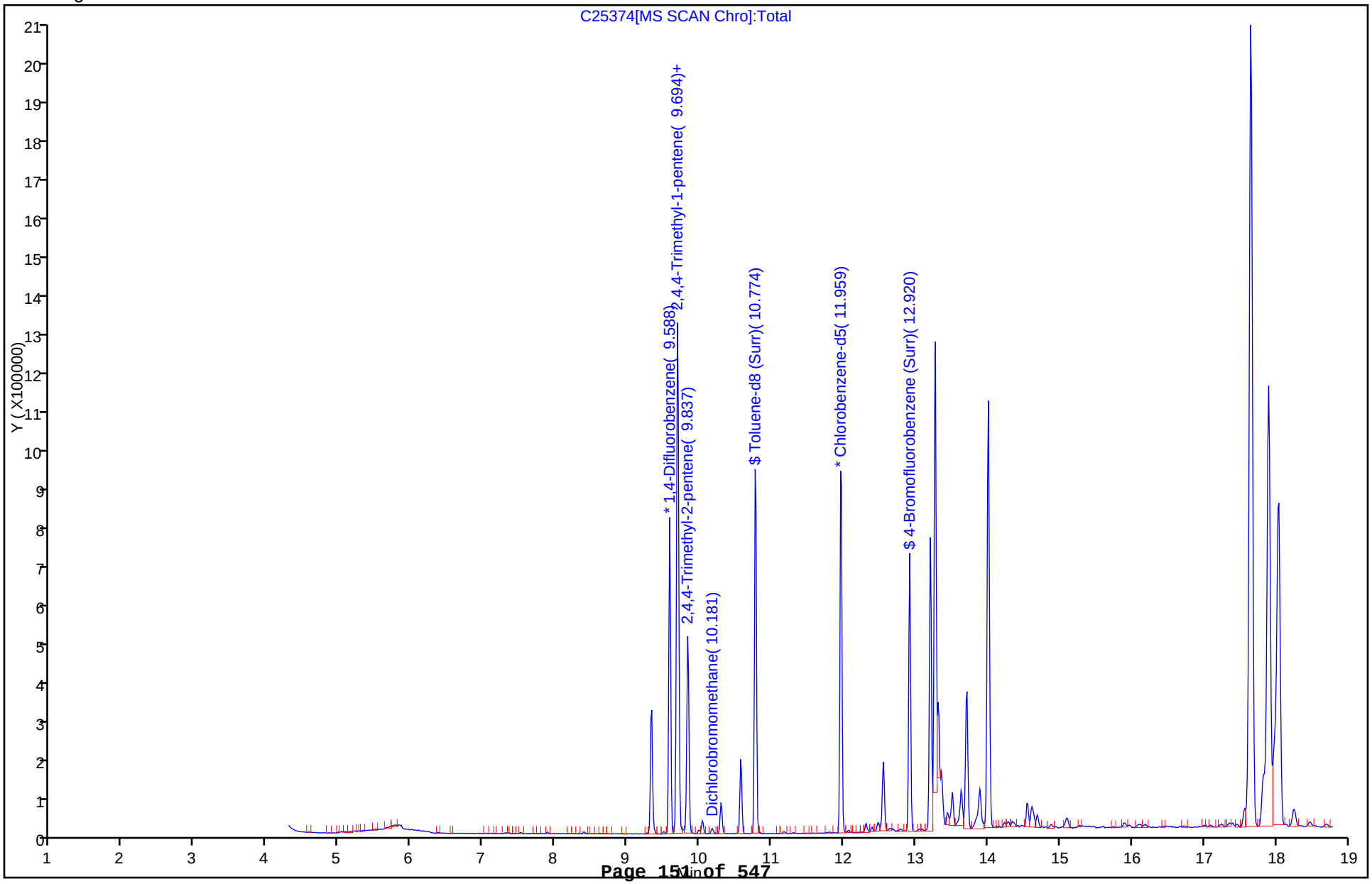
Processing Flags

Report Date: 17-Dec-2012 21:31:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121217-17619.b\C25374.D | | |
| Injection Date: | 17-Dec-2012 15:08:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-486-8.0/10-XXX | Instrument ID: | HP5973C |
| Lims Batch ID: | 96178 | Lims Sample ID: | 9 |
| Operator ID: | LH | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:

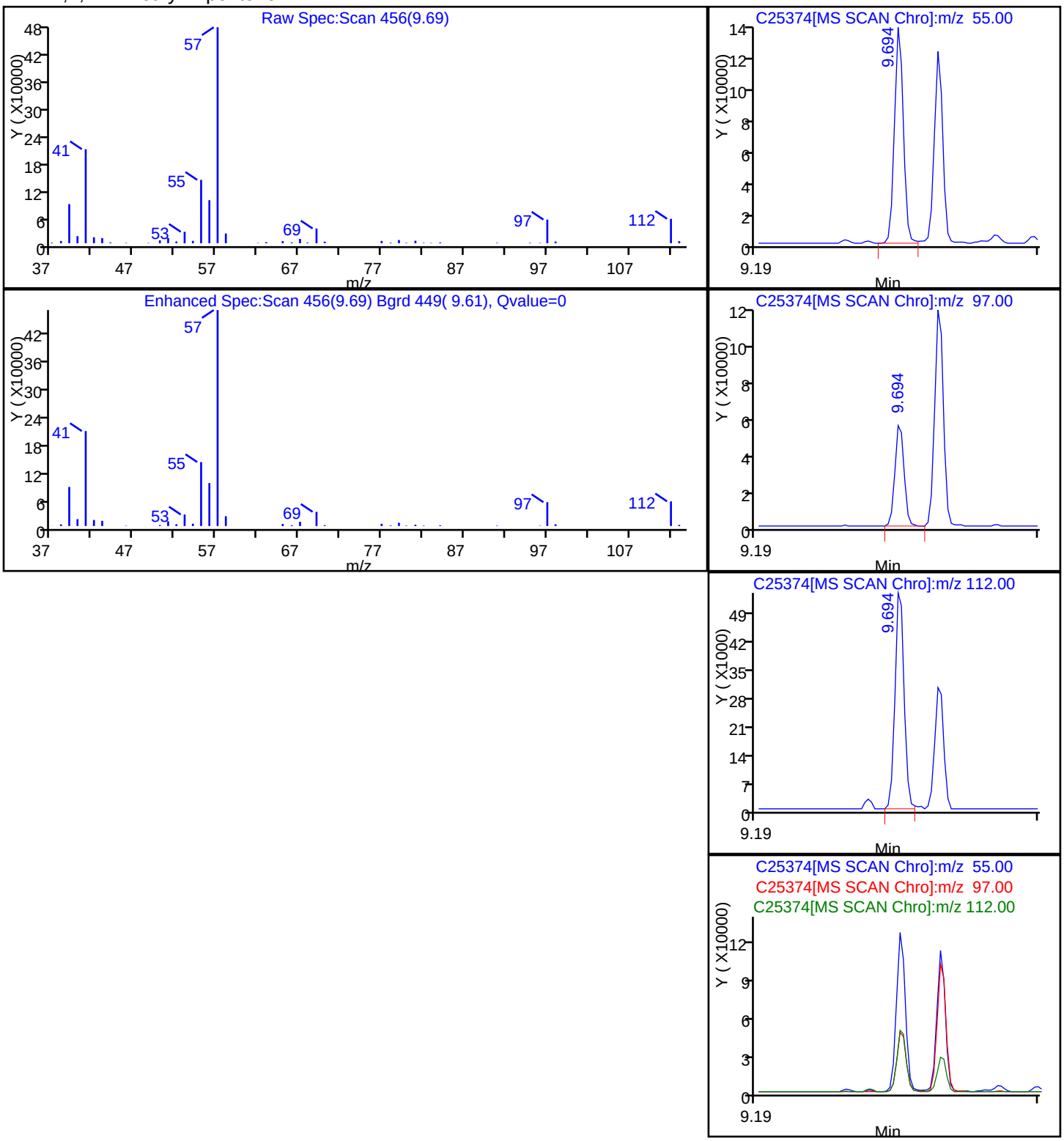


Report Date: 17-Dec-2012 21:31:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121217-17619.b\C25374.D | | |
| Injection Date: | 17-Dec-2012 15:08:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-486-8.0/10-XXX | Instrument ID: | HP5973C |
| Lims Batch ID: | 96178 | Lims Sample ID: | 9 |
| Operator ID: | LH | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

141 2,4,4-Trimethyl-1-pentene



Report Date: 17-Dec-2012 21:31:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

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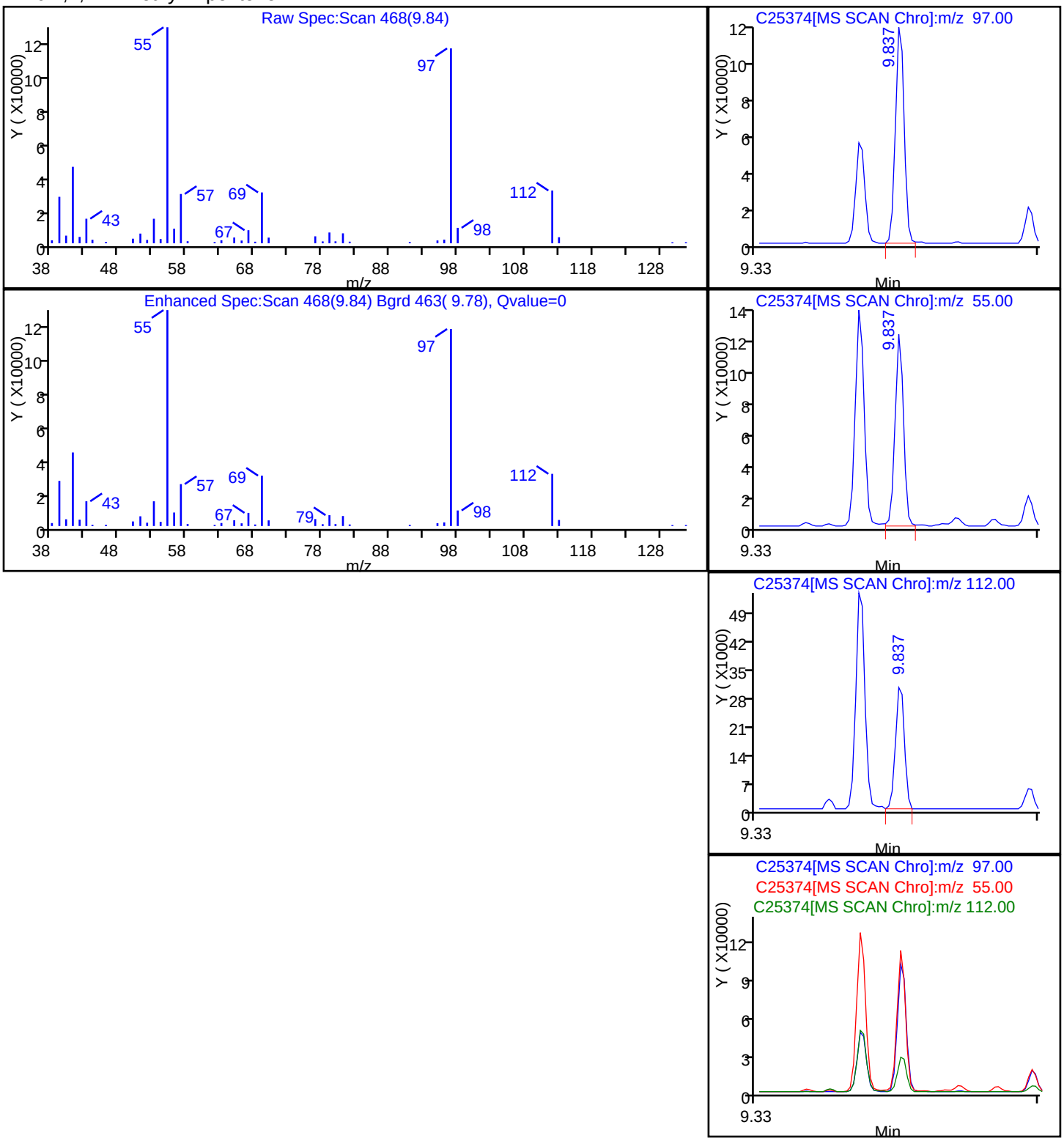
| Data File: | \\Bufchrom\ChromData\HP5973C\20121217-17619.b\C25374.D | | |
| Injection Date: | 17-Dec-2012 15:08:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-486-8.0/10-XXX | Instrument ID: | HP5973C |
| Lims Batch ID: | 96178 | Lims Sample ID: | 9 |
| Operator ID: | LH | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

140 2,4,4-Trimethyl-2-pentene



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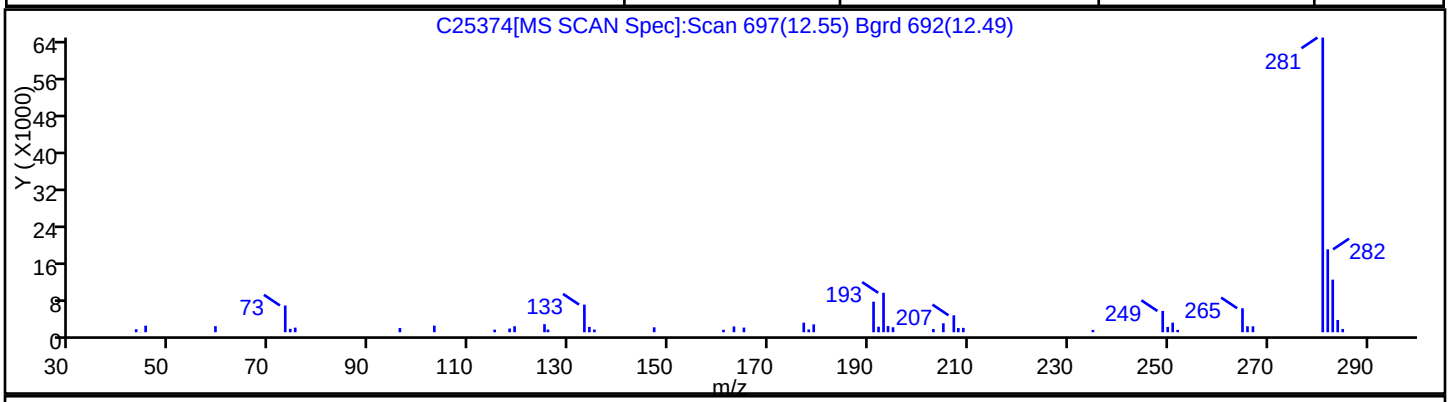
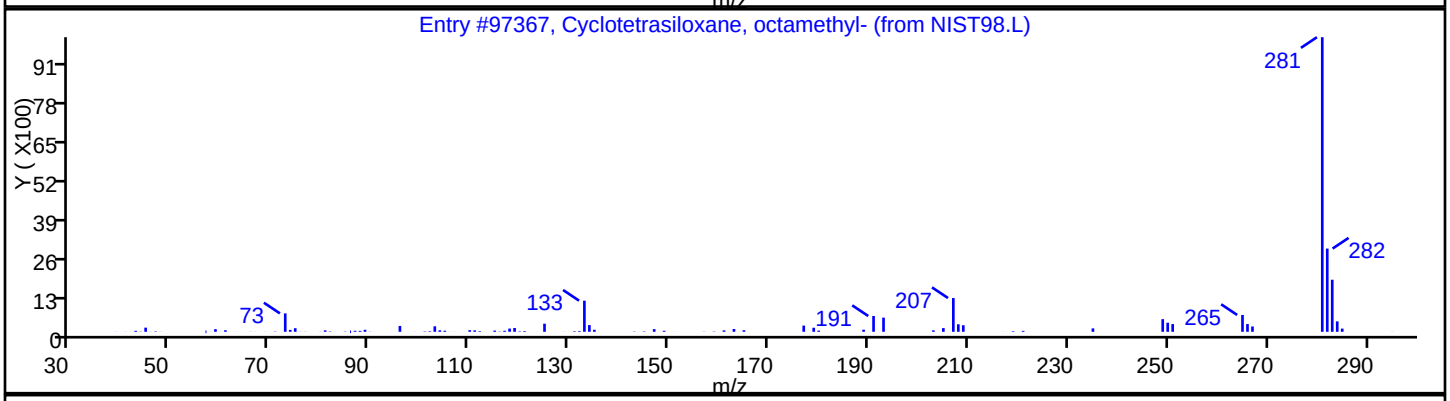
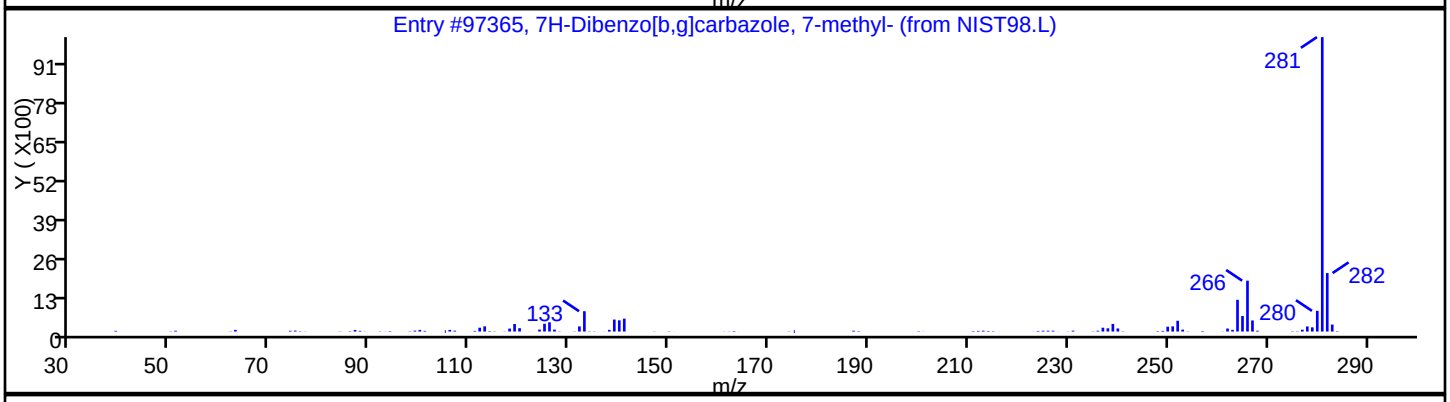
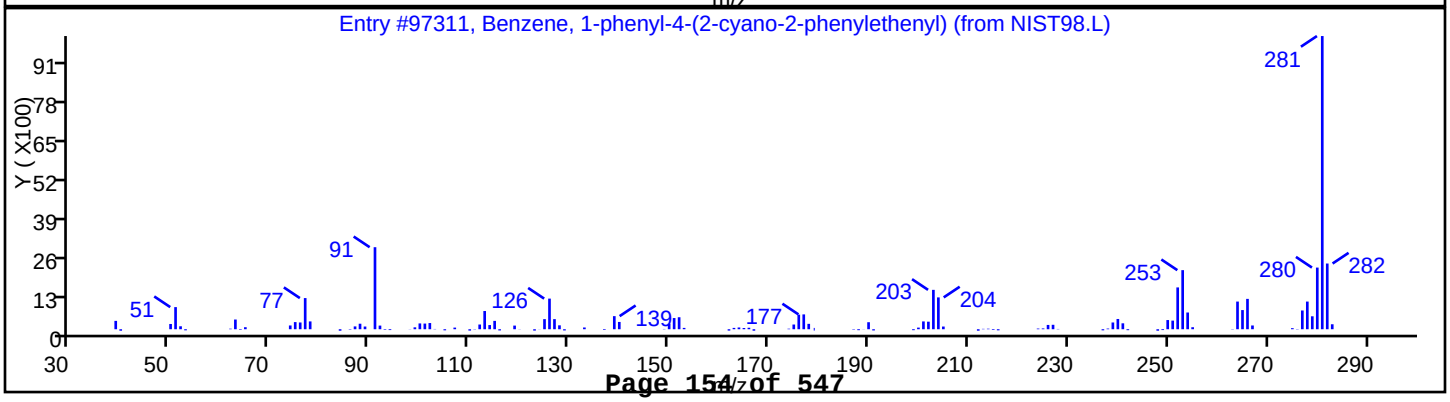
| Lims Batch ID: | 96178 | Lims Sample ID: | 9 |
| Operator ID: | LH | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| Cyclotetrasiloxane, octamethyl- | 556-67-2 | NIST98.L | 97367 | 72 |
| 7H-Dibenzo[b,g]carbazole, 7-methyl- | 3557-49-1 | NIST98.L | 97365 | 53 |
| Benzene, 1-phenyl-4-(2-cyano-2-phenyleth | 27869-56-3 | NIST98.L | 97311 | 47 |



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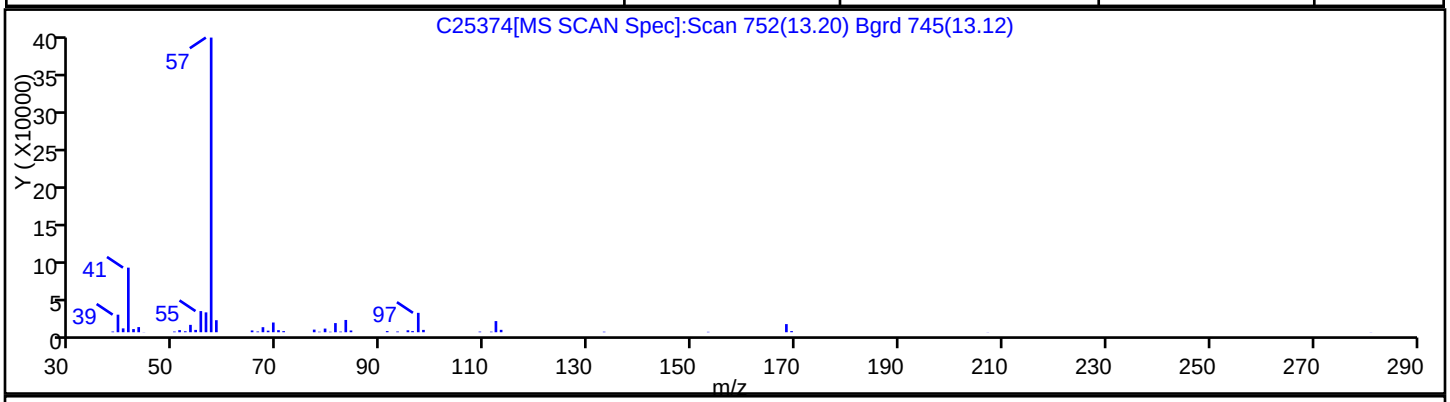
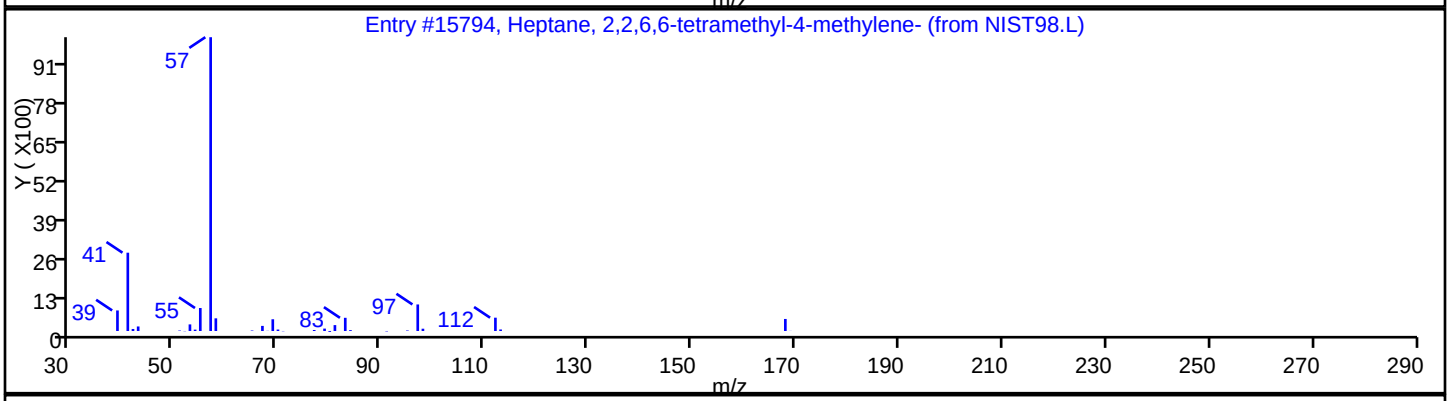
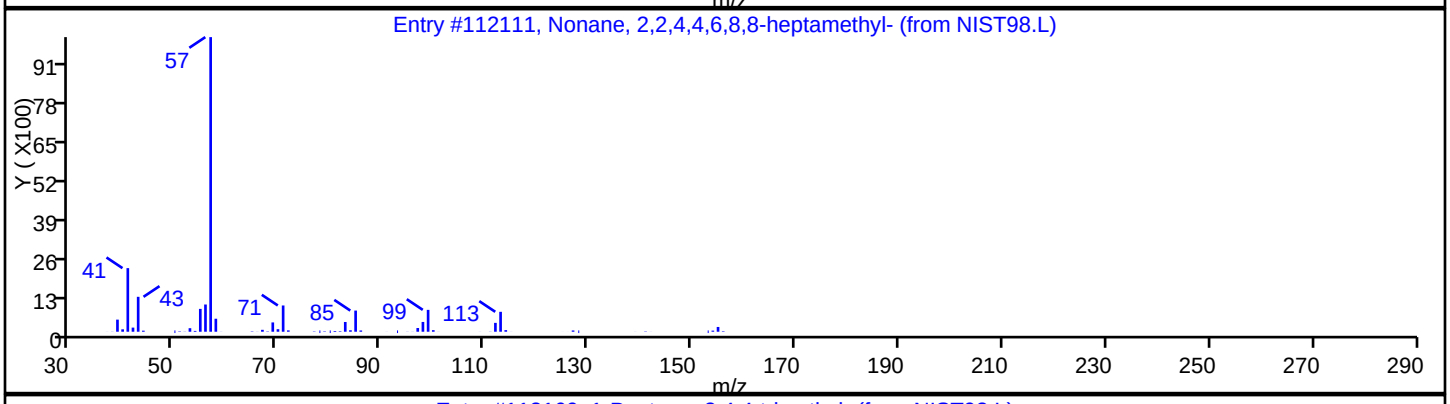
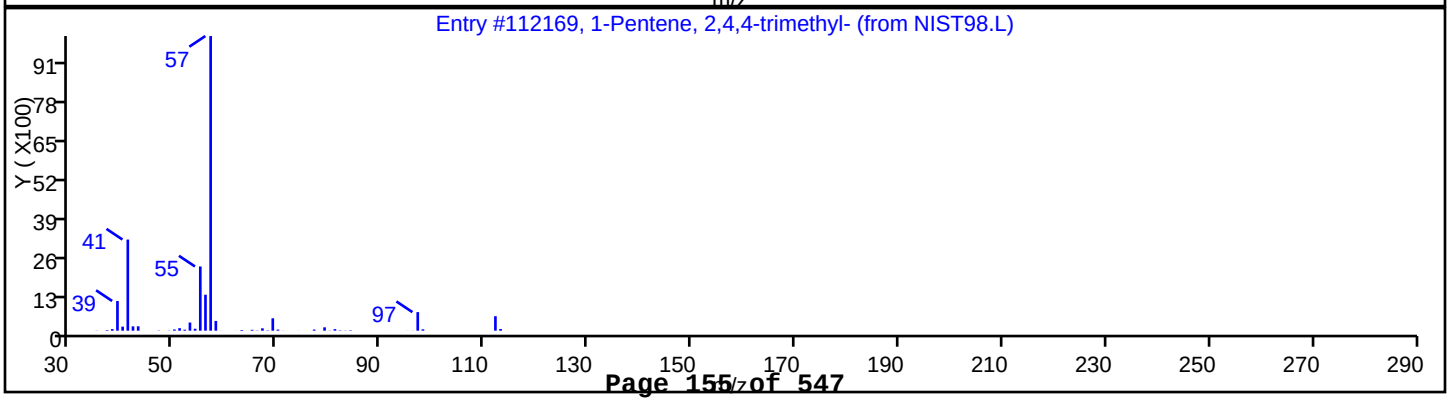
| Client ID: | OC-SB-486-8.0/10-XXX | Instrument ID: | HP5973C |
| Lims Batch ID: | 96178 | Lims Sample ID: | 9 |
| Operator ID: | LH | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| Heptane, 2,2,6,6-tetramethyl-4-methylene | 141-70-8 | NIST98.L | 15794 | 70 |
| Nonane, 2,2,4,4,6,8,8-heptamethyl- | 4390-4-9 | NIST98.L | 112111 | 59 |
| 1-Pentene, 2,4,4-trimethyl- | 107-39-1 | NIST98.L | 112169 | 43 |



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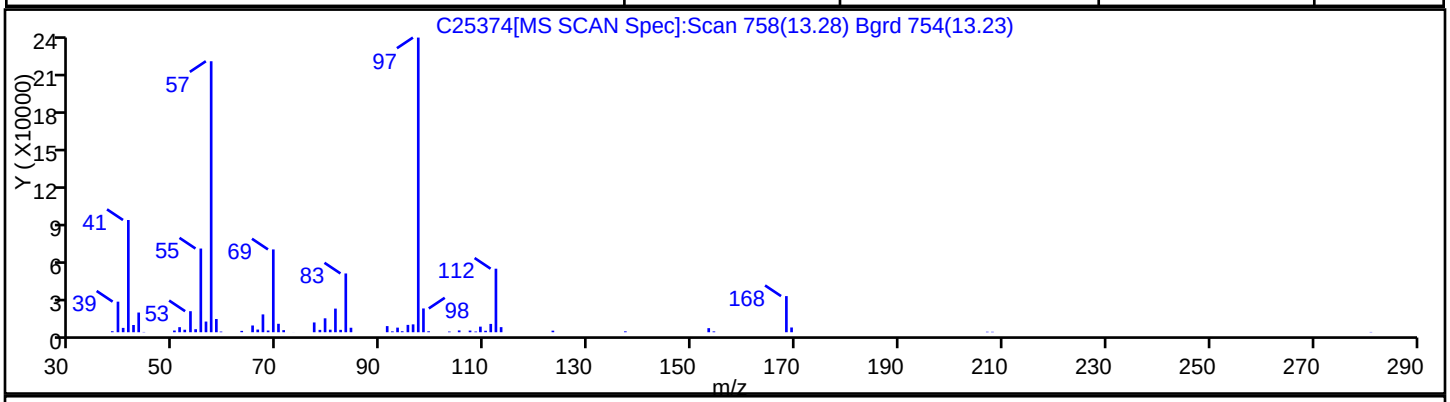
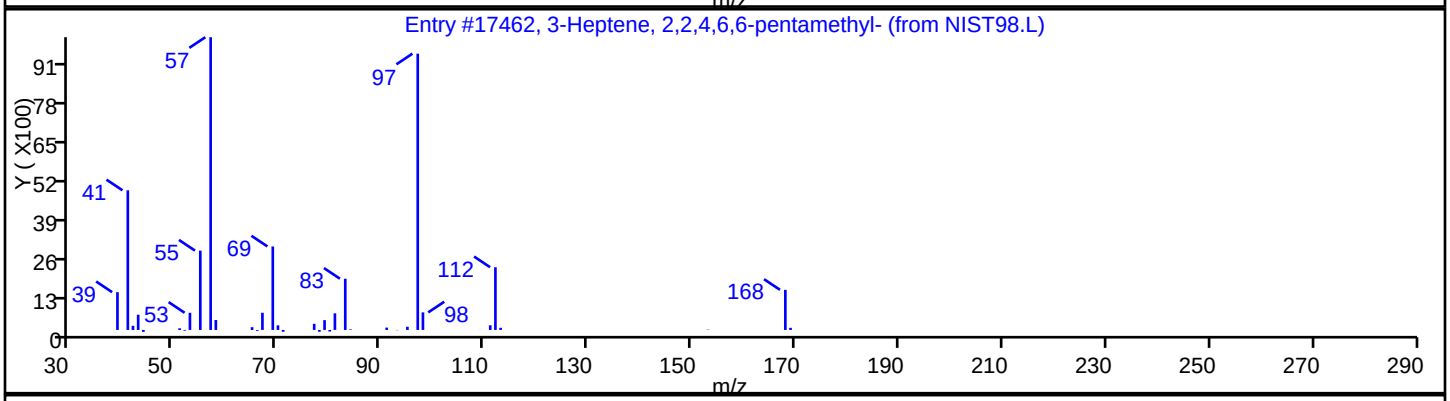
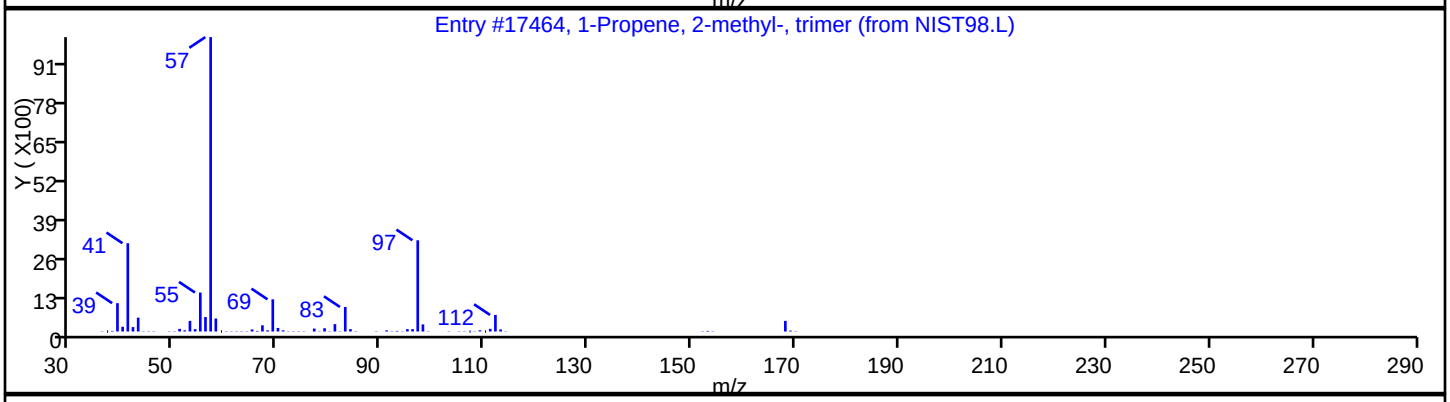
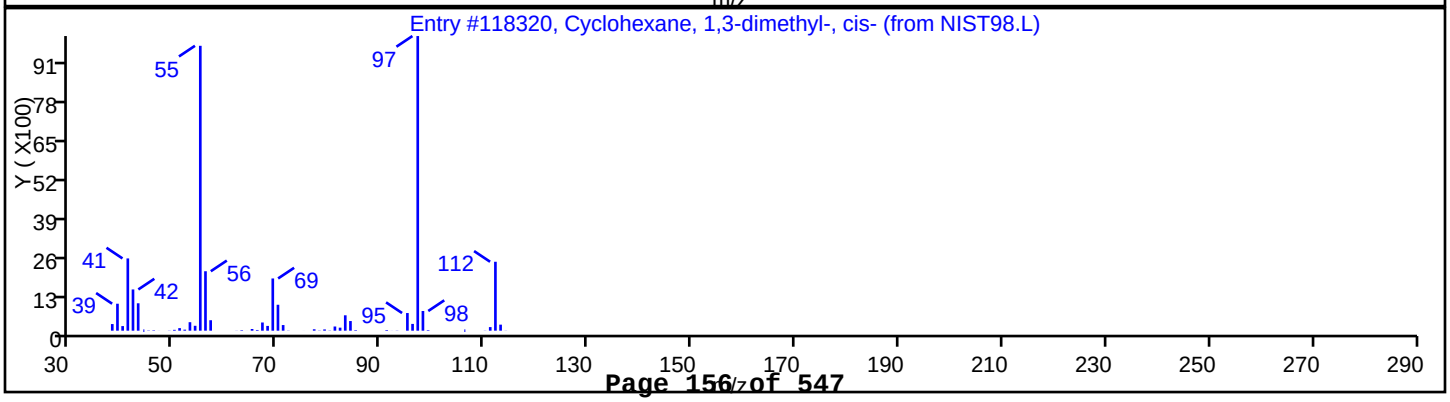
| Data File: | \\Bufchrom\ChromData\HP5973C\20121217-17619.b\C25374.D | | |
| Injection Date: | 17-Dec-2012 15:08:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-486-8.0/10-XXX | Instrument ID: | HP5973C |
| Lims Batch ID: | 96178 | Lims Sample ID: | 9 |
| Operator ID: | LH | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | 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 | 97 |
| 1-Propene, 2-methyl-, trimer | 7756-94-7 | NIST98.L | 17464 | 64 |
| Cyclohexane, 1,3-dimethyl-, cis- | 638-4-0 | NIST98.L | 118320 | 53 |



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Data File: \\Bufchrom\ChromData\HP5973C\20121217-17619.b\C25374.D

Injection Date: 17-Dec-2012 15:08:30 Limit Group: MV - 8260MCP_RCP

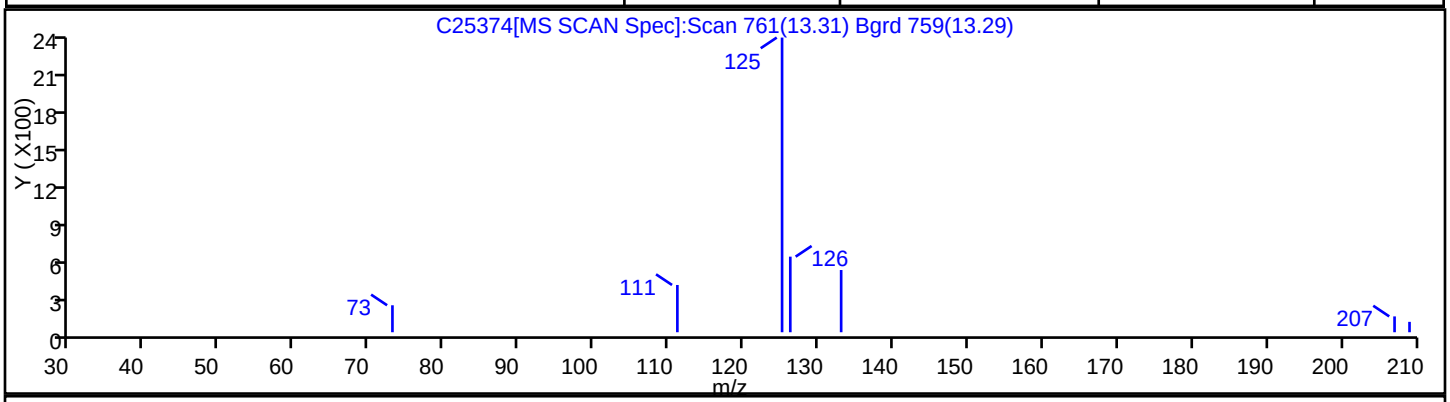
Client ID: OC-SB-486-8.0/10-XXX Instrument ID: HP5973C

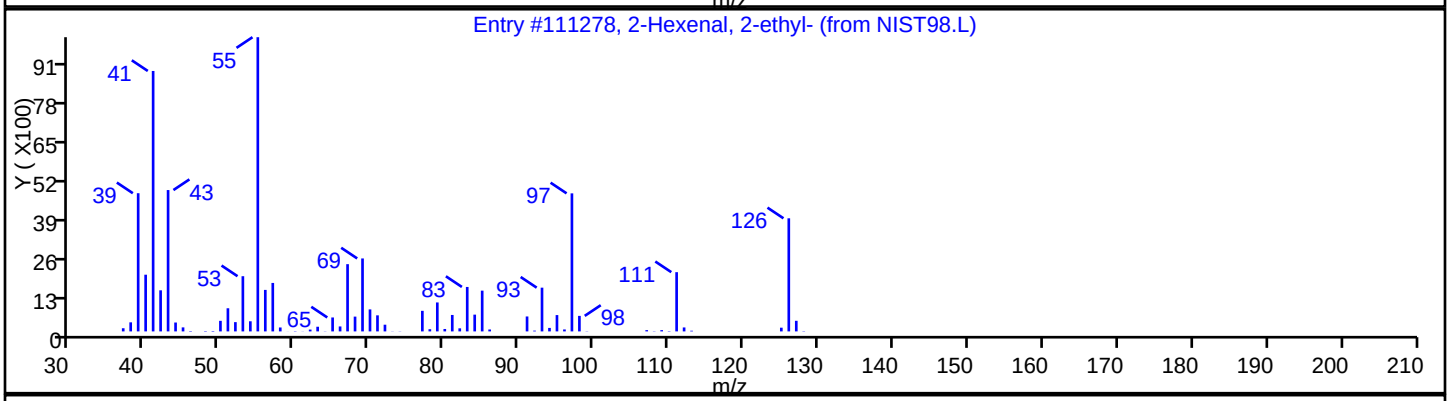
Lims Batch ID: 96178 Lims Sample ID: 9

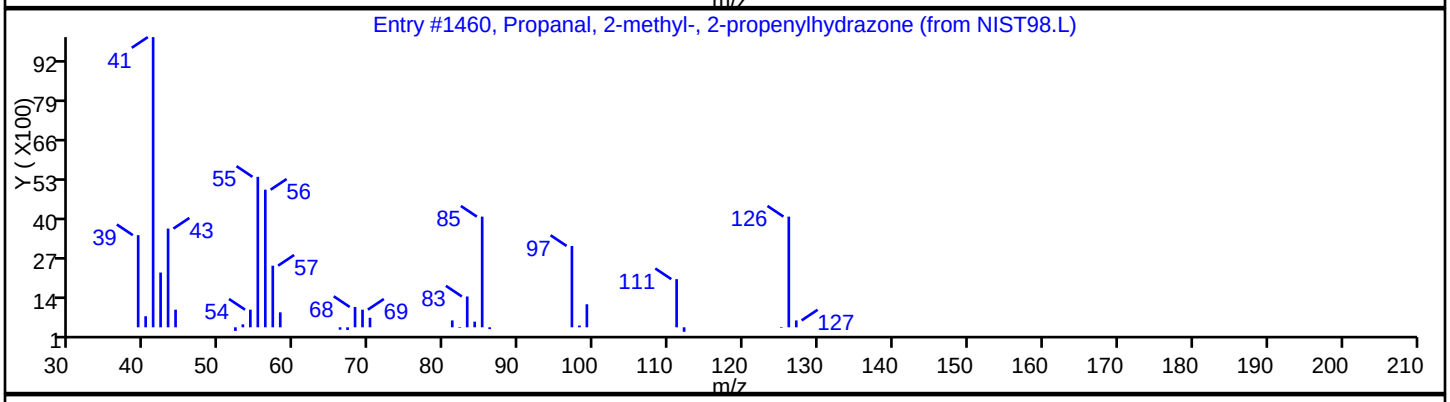
Operator ID: LH Purge Vol: 5.000 mL

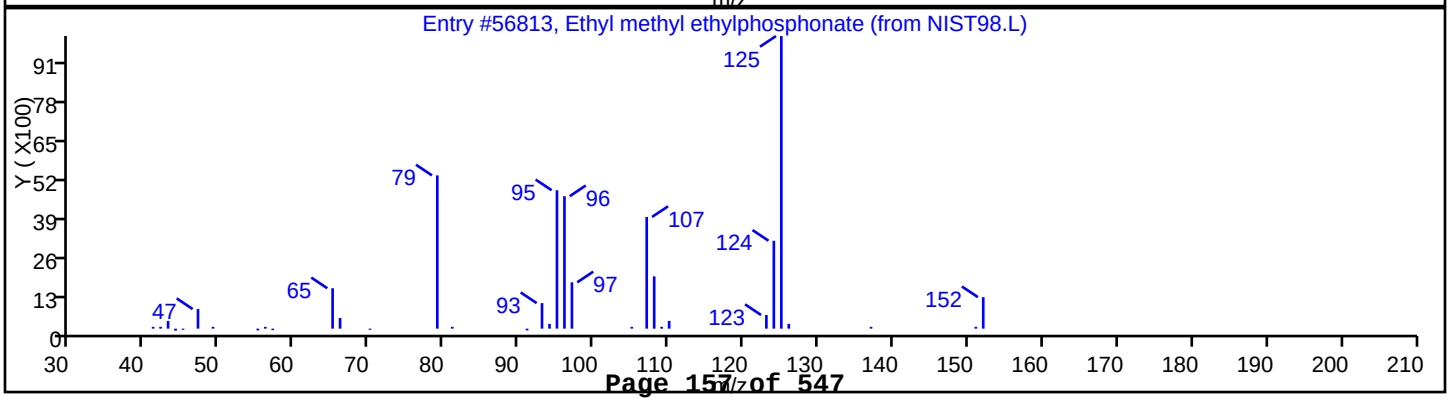
Column Type: ZB-624 Column Dia: 0.25 mm

| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| 2-Hexenal, 2-ethyl- | 645-62-5 | NIST98.L | 111278 | 5 |
| Propanal, 2-methyl-, 2-propenylhydrazone | 66075-8-9 | NIST98.L | 1460 | 5 |
| Ethyl methyl ethylphosphonate | 5301-65-5 | NIST98.L | 56813 | 5 |



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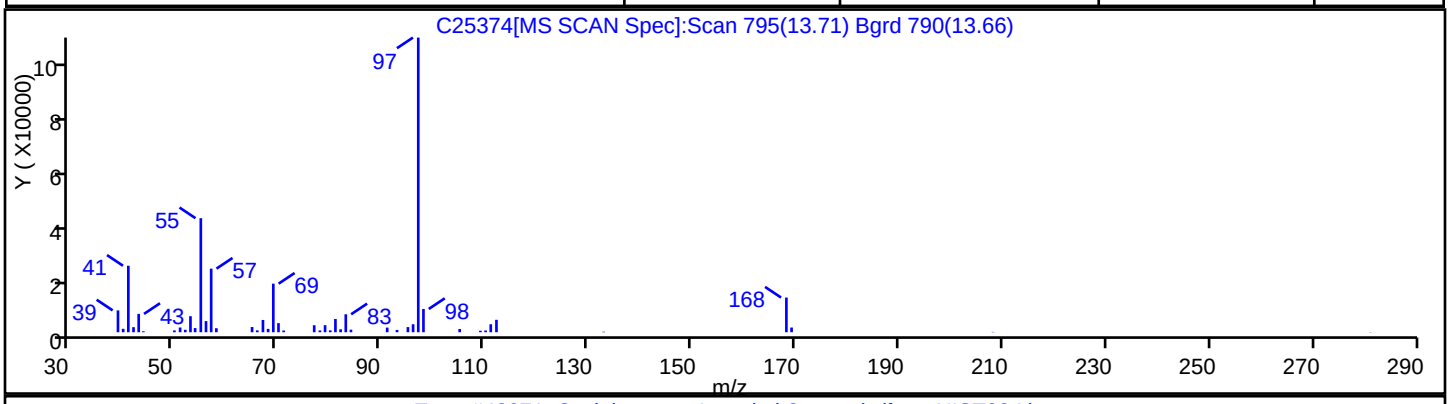
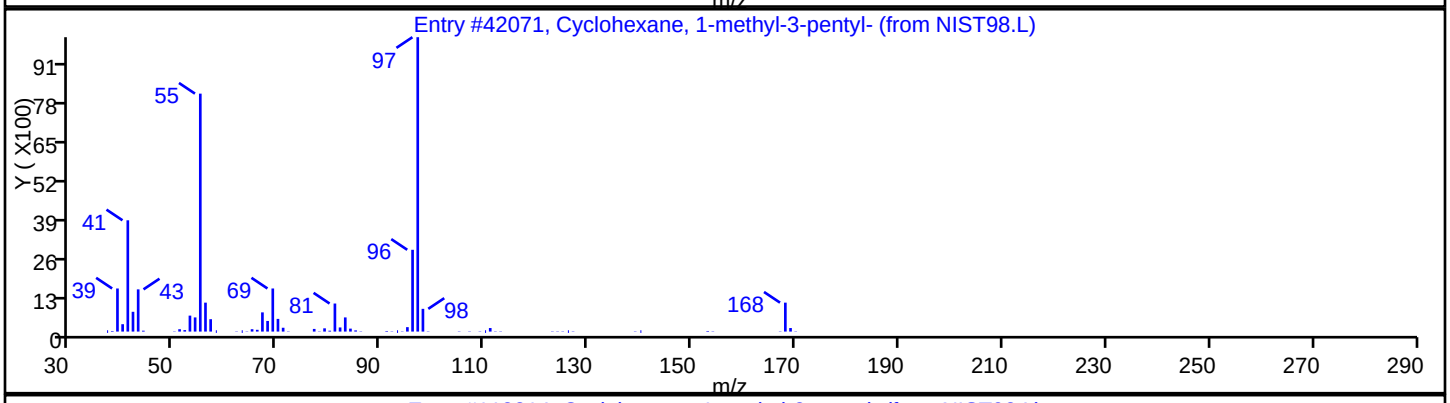
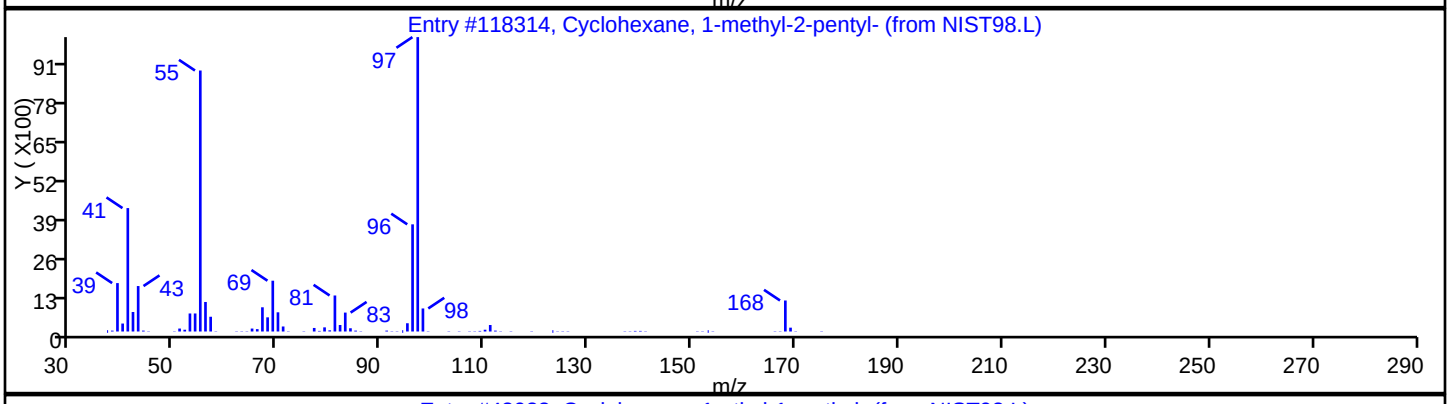
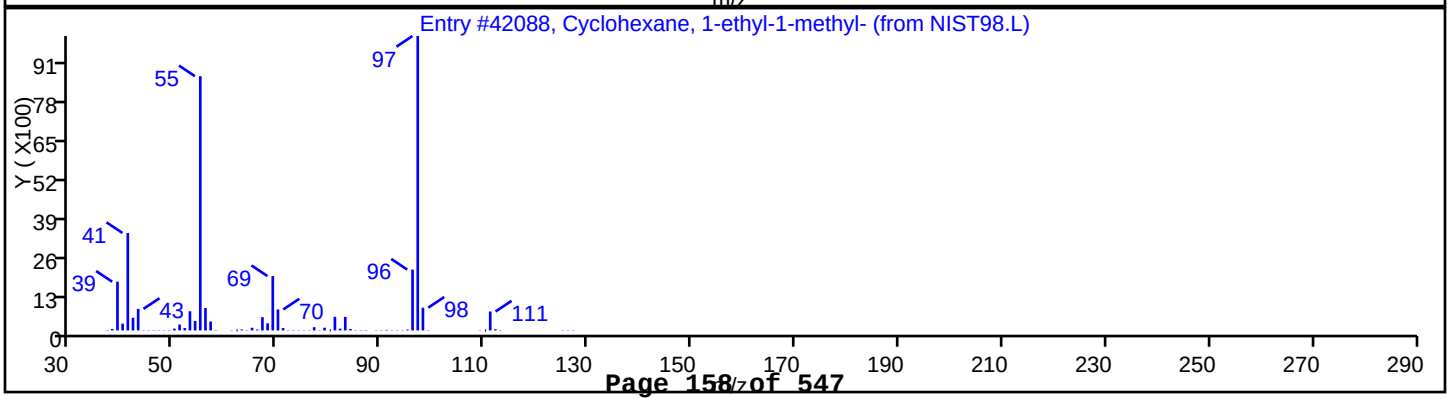
| Injection Date: | 17-Dec-2012 15:08:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-486-8.0/10-XXX | Instrument ID: | HP5973C |
| Lims Batch ID: | 96178 | Lims Sample ID: | 9 |
| Operator ID: | LH | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| Cyclohexane, 1-methyl-3-pentyl- | 54411-2-8 | NIST98.L | 42071 | 80 |
| Cyclohexane, 1-methyl-2-pentyl- | 54411-1-7 | NIST98.L | 118314 | 72 |
| Cyclohexane, 1-ethyl-1-methyl- | 4926-90-3 | NIST98.L | 42088 | 64 |



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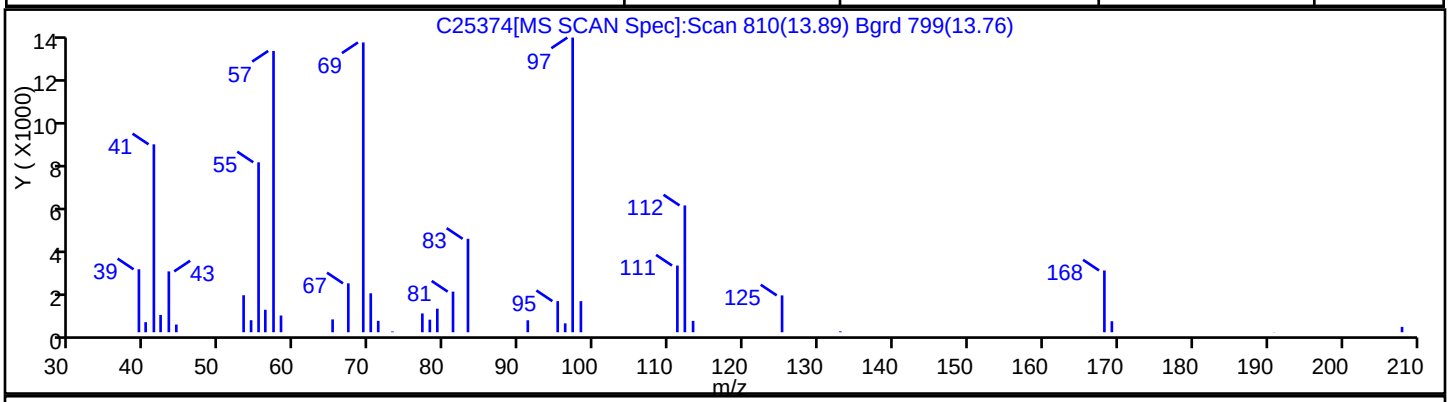
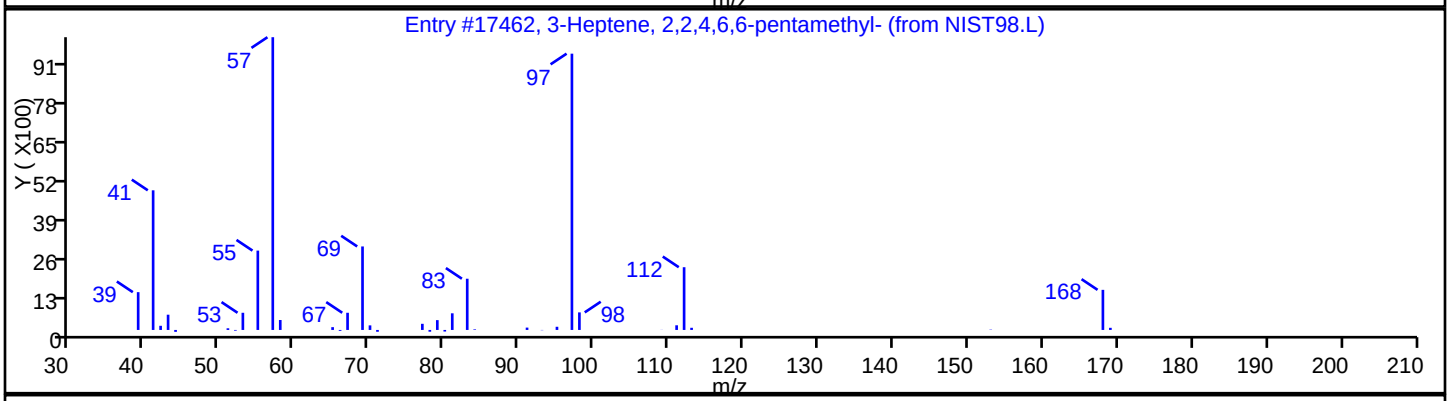
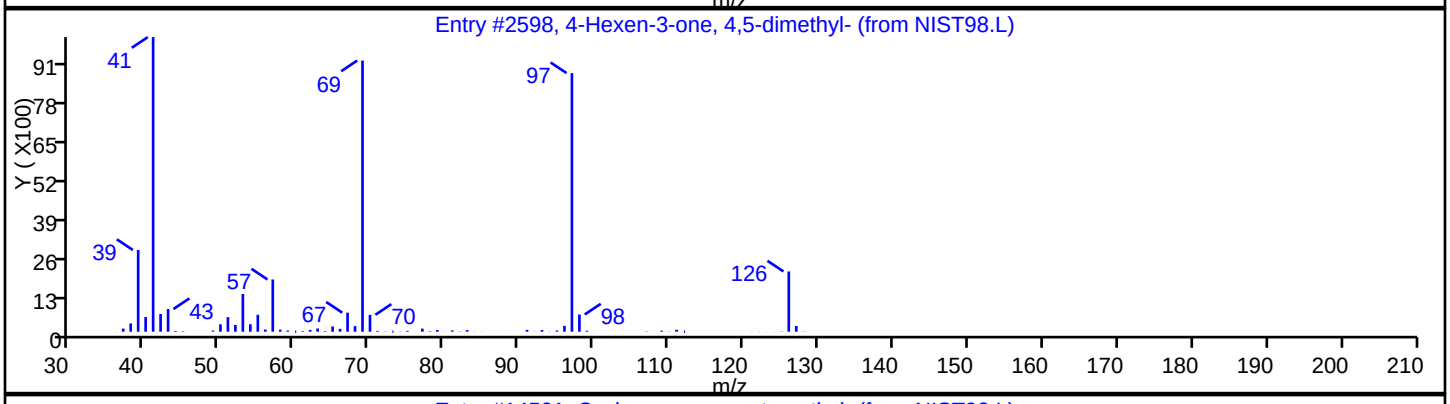
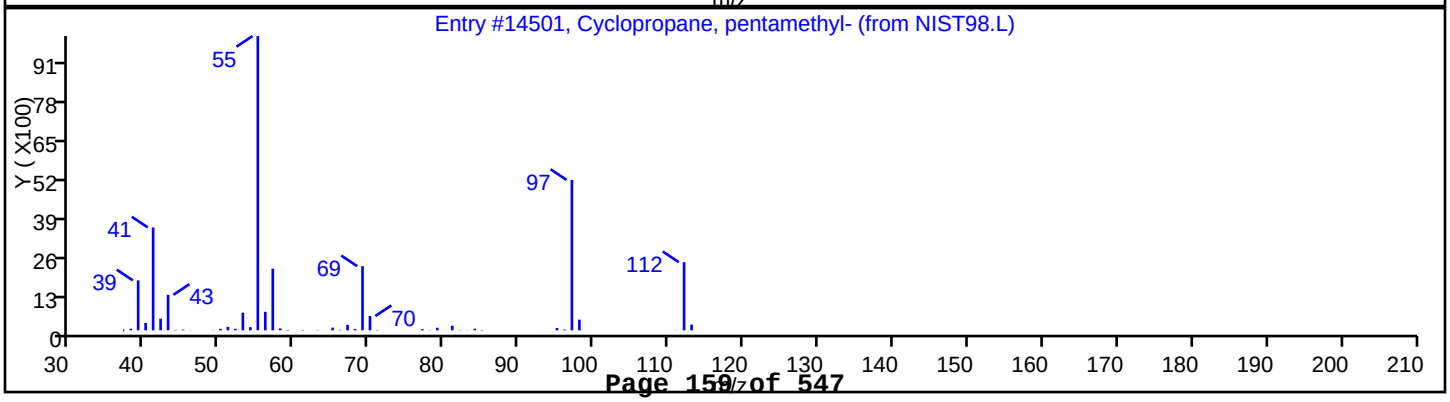
| Injection Date: | 17-Dec-2012 15:08:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-486-8.0/10-XXX | Instrument ID: | HP5973C |
| Lims Batch ID: | 96178 | Lims Sample ID: | 9 |
| Operator ID: | LH | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| 3-Heptene, 2,2,4,6,6-pentamethyl- | 123-48-8 | NIST98.L | 17462 | 43 |
| 4-Hexen-3-one, 4,5-dimethyl- | 17325-90-5 | NIST98.L | 2598 | 43 |
| Cyclopropane, pentamethyl- | 14172-83-9 | NIST98.L | 14501 | 38 |



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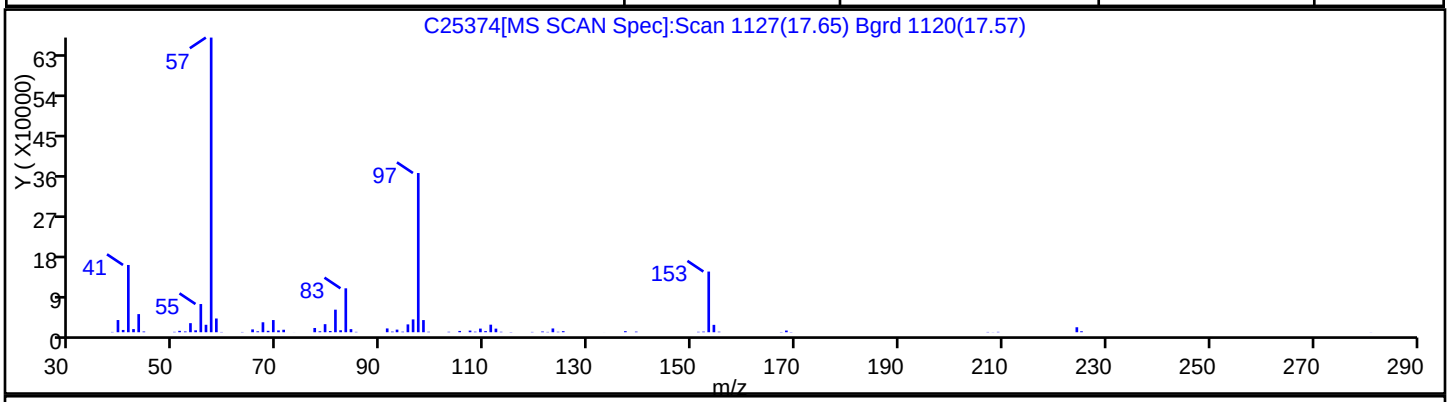
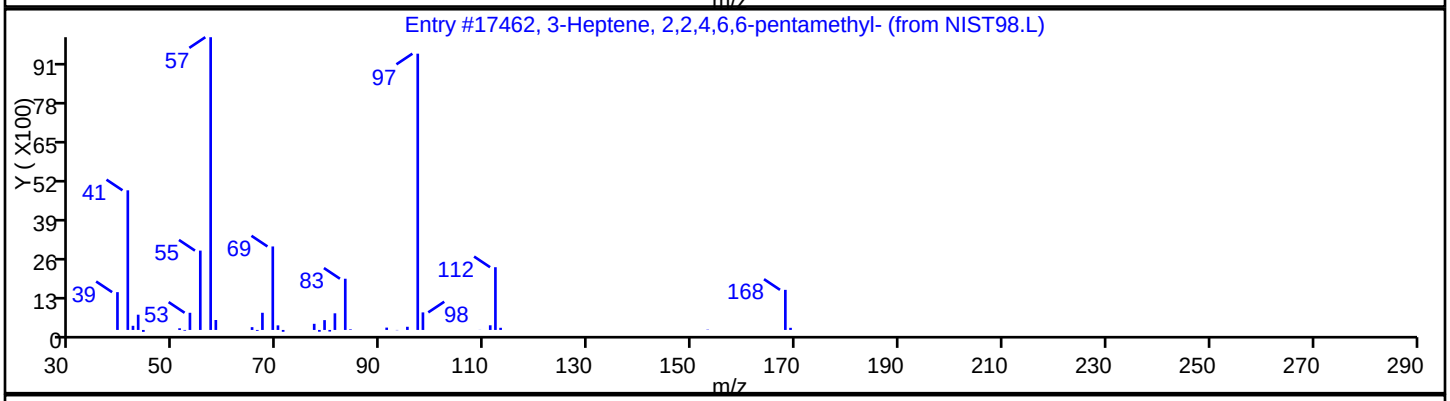
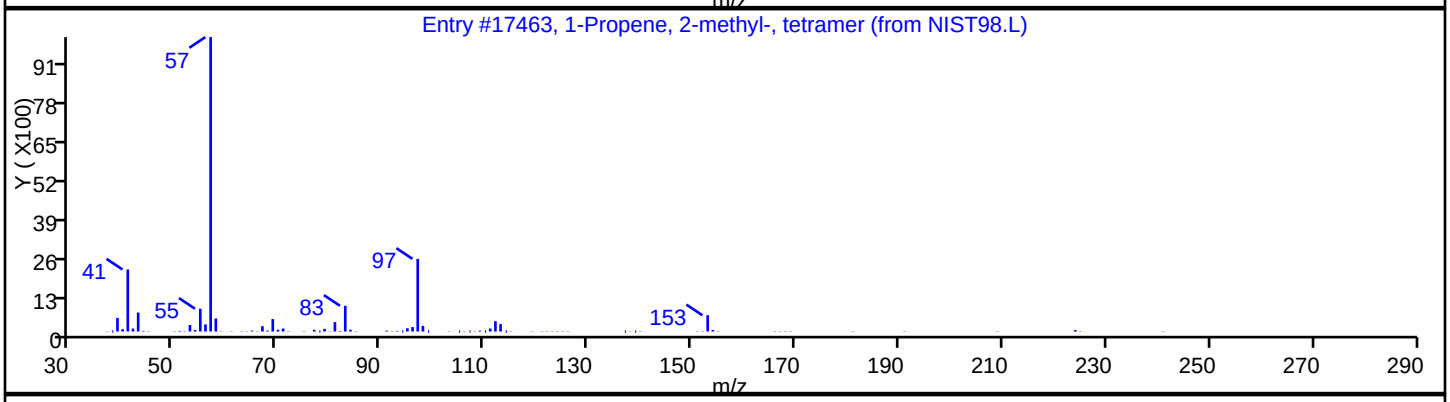
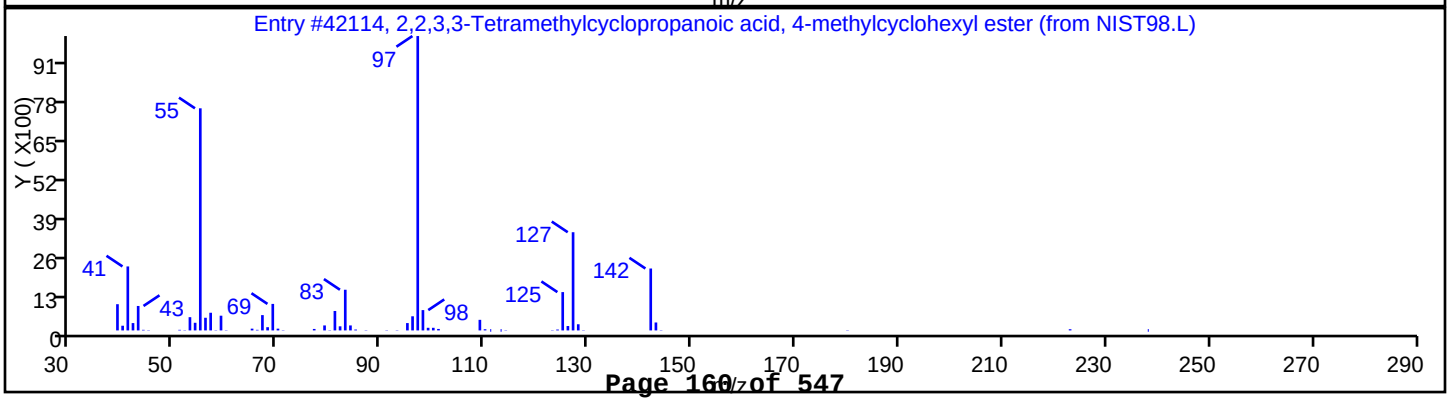
| Client ID: | OC-SB-486-8.0/10-XXX | Instrument ID: | HP5973C |
| Lims Batch ID: | 96178 | Lims Sample ID: | 9 |
| Operator ID: | LH | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| 3-Heptene, 2,2,4,6,6-pentamethyl- | 123-48-8 | NIST98.L | 17462 | 50 |
| 1-Propene, 2-methyl-, tetramer | 15220-85-6 | NIST98.L | 17463 | 27 |
| 2,2,3,3-Tetramethylcyclopropanoic acid, | 1000221-97-5 | NIST98.L | 42114 | 25 |



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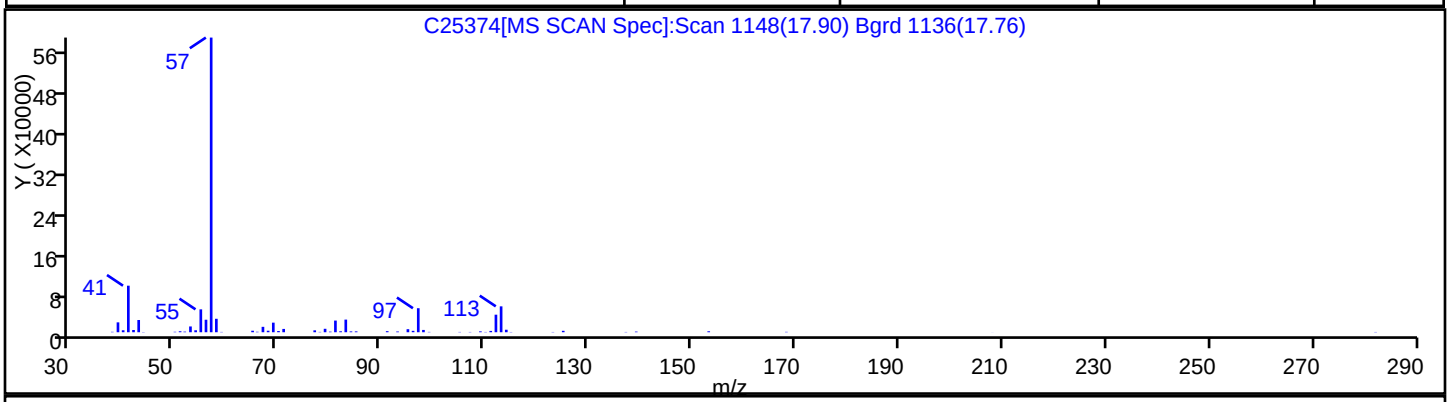
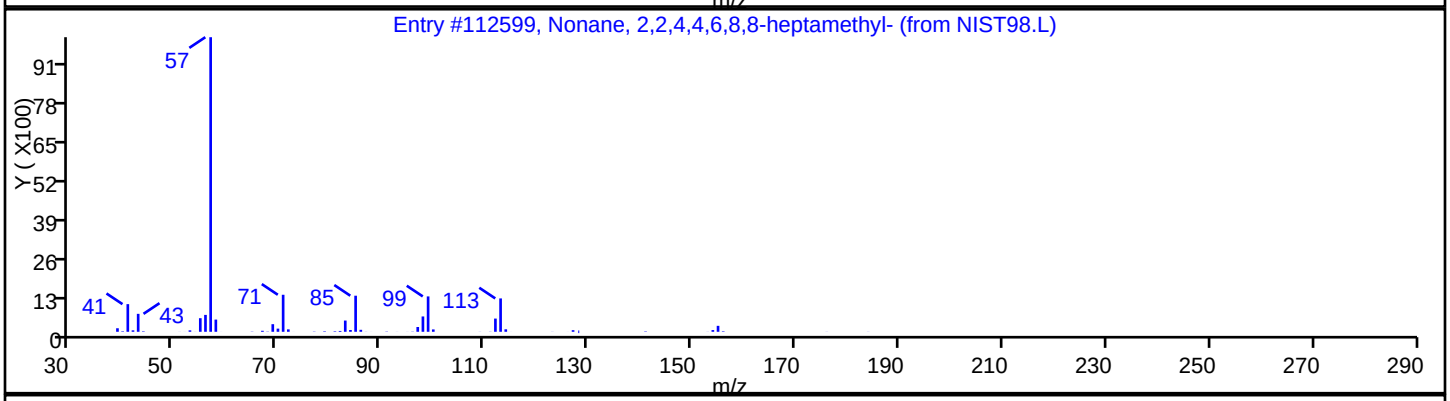
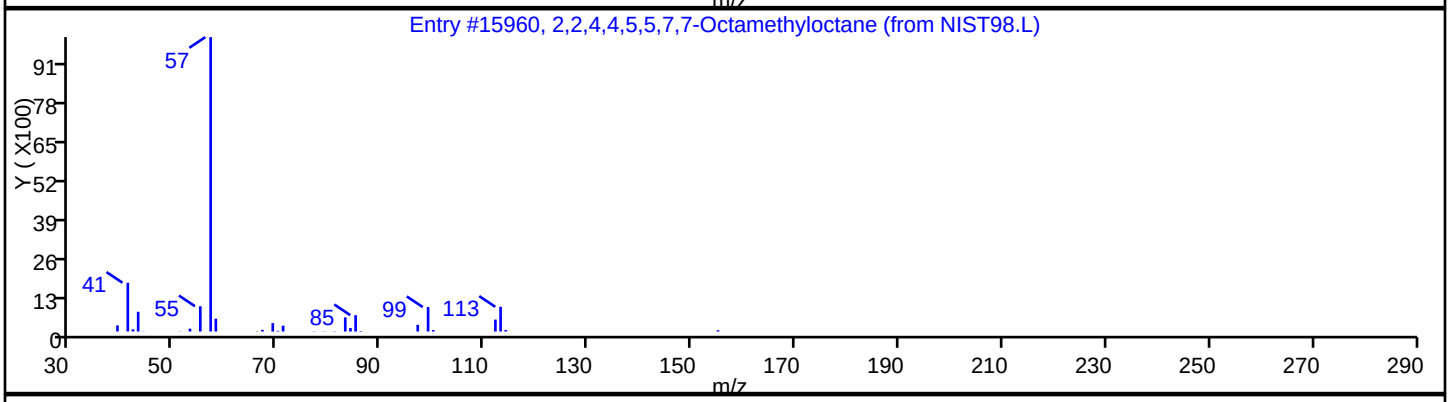
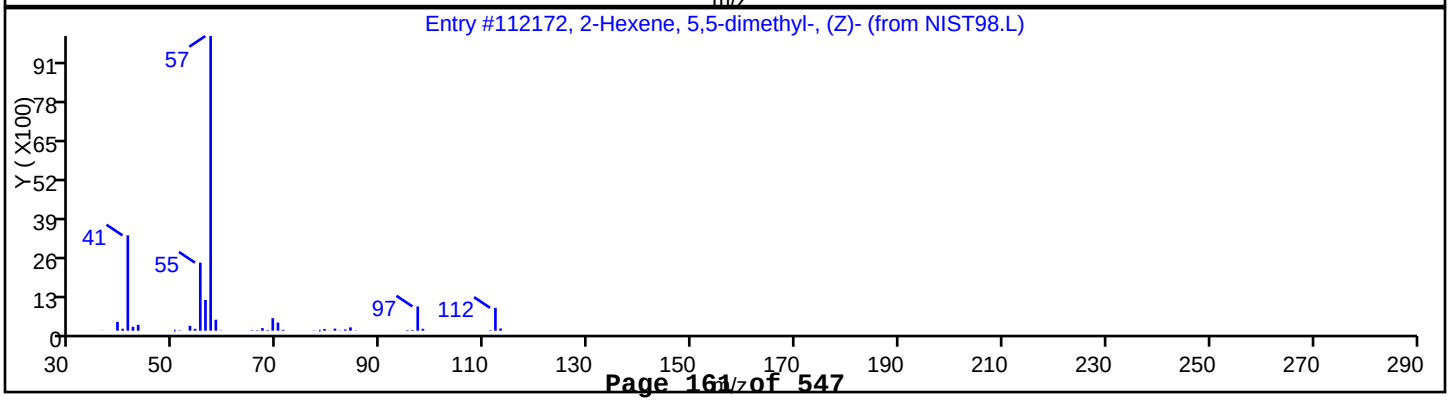
| Operator ID: | LH | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| Nonane, 2,2,4,4,6,8,8-heptamethyl- | 4390-4-9 | NIST98.L | 112599 | 64 |
| 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 | 43 |



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TestAmerica Buffalo

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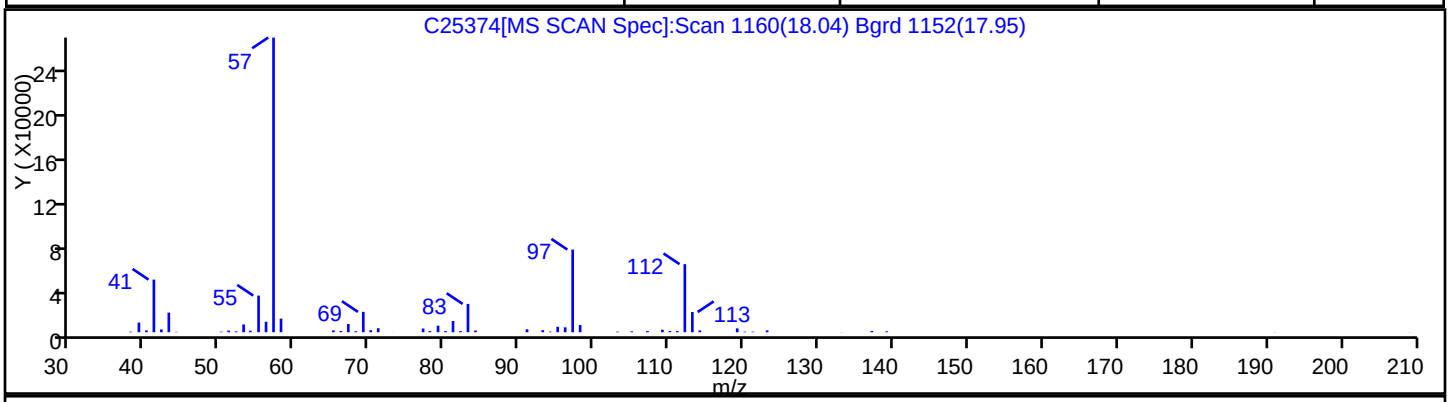
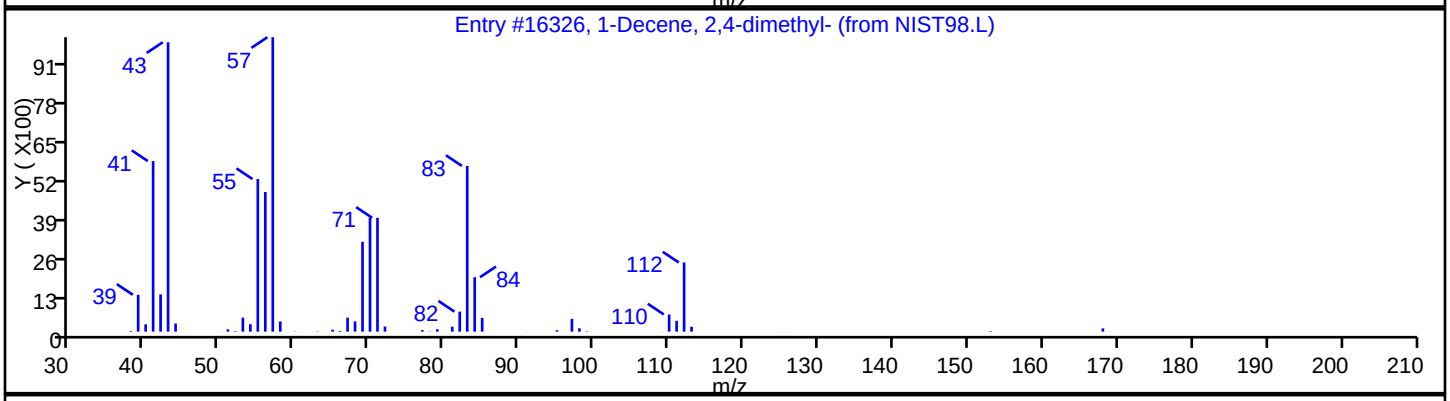
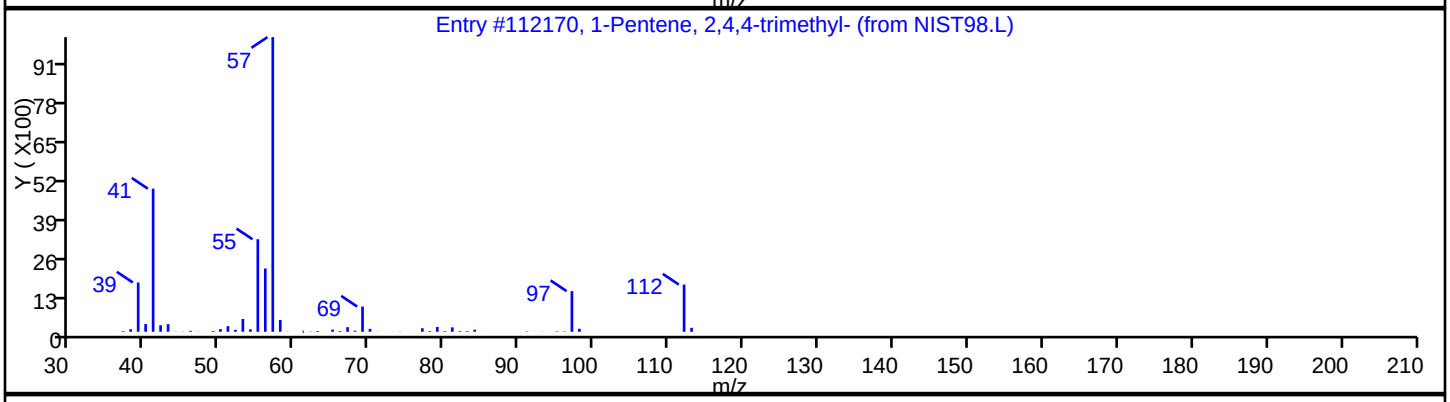
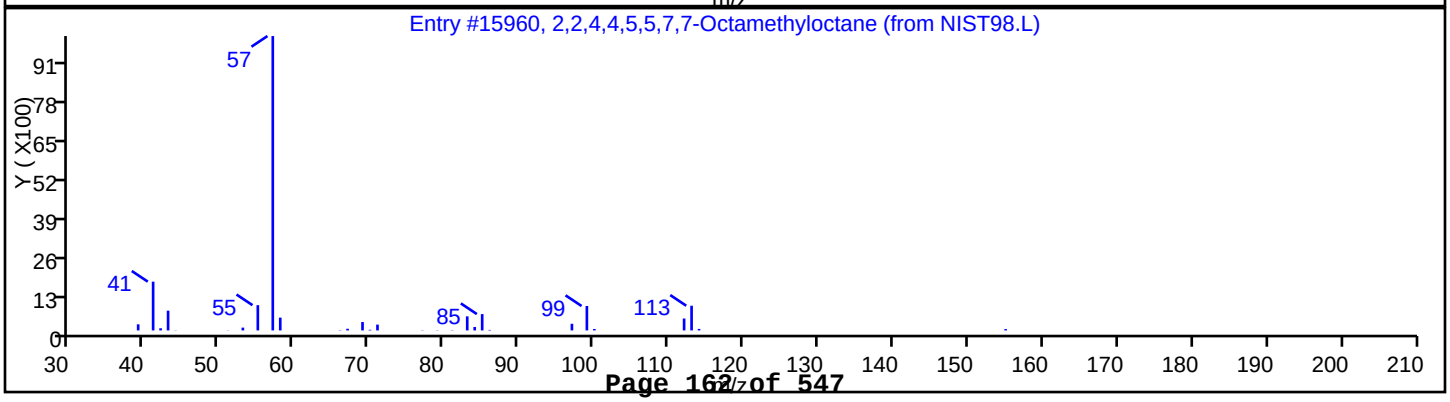
| Injection Date: | 17-Dec-2012 15:08:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-486-8.0/10-XXX | Instrument ID: | HP5973C |
| Lims Batch ID: | 96178 | Lims Sample ID: | 9 |
| Operator ID: | LH | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| 1-Decene, 2,4-dimethyl- | 55170-80-4 | NIST98.L | 16326 | 9 |
| 1-Pentene, 2,4,4-trimethyl- | 107-39-1 | NIST98.L | 112170 | 9 |
| 2,2,4,4,5,5,7,7-Octamethyloctane | 5171-85-7 | NIST98.L | 15960 | 9 |



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-29976-1

SDG No.:

Client Sample ID: OC-SB-491-6.0/8.0-XXX | Lab Sample ID: 480-29976-8

Matrix: Solid | Lab File ID: F4311.D

Analysis Method: 8260C | Date Collected: 12/11/2012 13:00

Sample wt/vol: 5.32(g) | Date Analyzed: 12/14/2012 04:08

Soil Aliquot Vol: | Dilution Factor: 1

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

% Moisture: 4.5 | Level: (low/med) Low

Analysis Batch No.: 95715 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 107-39-1 | 2,4,4-Trimethyl-1-pentene | ND | | 4.9 | 0.42 |
| 107-40-4 | 2,4,4-Trimethyl-2-pentene | ND | | 4.9 | 0.52 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 2037-26-5 | Toluene-d8 (Surr) | 89 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 90 | | 70-130 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 87 | | 70-130 |

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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Client Sample ID: OC-SB-491-6.0/8.0-XXX Lab Sample ID: 480-29976-8

Matrix: Solid Lab File ID: F4311.D

Analysis Method: 8260C Date Collected: 12/11/2012 13:00

Sample wt/vol: 5.32(g) Date Analyzed: 12/14/2012 04:08

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: 4.5 Level: (low/med) Low

Analysis Batch No.: 95715 Units: ug/Kg

Number TICs Found: 4 TIC Result Total: 297.1

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| 123-48-8 | 3-Heptene, 2,2,4,6,6-pentamethyl- | 10.11 | 6.1 | T J N |
| 15220-85-6 | 1-Propene, 2-methyl-, tetramer | 13.15 | 140 | T J N |
| 107-39-1 | 1-Pentene, 2,4,4-trimethyl- | 13.29 | 90 | T J N |
| 762-62-9 | 1-Pentene, 4,4-dimethyl- | 13.37 | 61 | T J N |

Report Date: 21-Dec-2012 14:53:40 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4311.D | | |
| Lims ID: | 480-29976-C-8-A | Client ID: | OC-SB-491-6.0/8.0-XXX |
| Inject. Date: | 14-Dec-2012 04:08:30 | Dil. Factor: | 1.0000 |
| Sample Type: | Client | | |
| Sample ID: | 480-29976-C-8-A | | |
| Misc. Info.: | 480-0017526-015 =480-0017526-015 | | |
| Operator: | CDC | Instrument ID: | HP5973F |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 7 |
| Lims Batch ID: | 95715 | Lims Sample ID: | 15 |
| Detector: | MS SCAN | | |
| Method: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F-8260 SOIL.m | | |
| Last Update: | 14-Dec-2012 11:30:48 | Calib Date: | 11-Dec-2012 23:36:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4239.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK022 | | |

First Level Reviewer: ByrnesJ Date: 14-Dec-2012 08:53:51

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 5.608 | 5.608 | 0.0 | 92 | 334086 | 50.0 | |
| * 2 Chlorobenzene-d5 | 82 | 8.382 | 8.382 | 0.0 | 79 | 146696 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 10.700 | 10.700 | 0.0 | 92 | 166321 | 50.0 | |
| $ 4 1,2-Dichloroethane-d4 (Surr) | 67 | 5.310 | 5.304 | 0.006 | 99 | 54388 | 44.9 | |
| $ 5 Toluene-d8 (Surr) | 98 | 6.934 | 6.928 | 0.006 | 92 | 395860 | 44.7 | |
| $ 6 4-Bromofluorobenzene (Surr) | 174 | 9.599 | 9.599 | 0.0 | 93 | 135046 | 43.3 | |
| 10 Dichlorodifluoromethane | 85 | | 1.995 | | | | | |
| 12 Chloromethane | 50 | | 2.147 | | | | | |
| 13 Vinyl chloride | 62 | | 2.268 | | | | | |
| 14 Bromomethane | 94 | | 2.548 | | | | | |
| 15 Chloroethane | 64 | | 2.621 | | | | | |
| 17 Trichlorofluoromethane | 101 | | 2.846 | | | | | |
| 18 Ethyl ether | 59 | | 3.035 | | | | | |
| 21 1,1,2-Trichloro-1,2,2-trifluoroe | 101 | | 3.224 | | | | | |
| 22 1,1-Dichloroethene | 96 | | 3.254 | | | | | |
| 23 Acetone | 43 | | 3.303 | | | | | 9 |
| 26 Carbon disulfide | 76 | | 3.467 | | | | | |
| 27 Methyl acetate | 43 | | 3.528 | | | | | |
| 30 Methylene Chloride | 84 | 3.655 | 3.643 | 0.012 | 58 | 5013 | 1.74 | |
| 32 Methyl tert-butyl ether | 73 | | 3.801 | | | | | |
| 34 trans-1,2-Dichloroethene | 96 | | 3.832 | | | | | |
| 36 Isopropyl ether | 45 | | 4.130 | | | | | |
| 39 1,1-Dichloroethane | 63 | | 4.173 | | | | | |
| 41 Tert-butyl ethyl ether | 59 | | 4.416 | | | | | |
| 43 2-Butanone (MEK) | 43 | | 4.617 | | | | | 9 |
| 44 2,2-Dichloropropane | 77 | | 4.623 | | | | | |
| 45 cis-1,2-Dichloroethene | 96 | | 4.629 | | | | | |
| 48 Chlorobromomethane | 128 | | 4.842 | | | | | |
| 49 Tetrahydrofuran | 42 | | 4.854 | | | | | 9 |
| 50 Chloroform | 83 | | 4.872 | | | | | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 51 1,1,1-Trichloroethane | 97 | | 5.018 | | | | | |
| 52 Cyclohexane | 56 | | 5.049 | | | | | |
| 54 1,1-Dichloropropene | 75 | | 5.140 | | | | | |
| 55 Carbon tetrachloride | 117 | | 5.146 | | | | | |
| 57 Benzene | 78 | | 5.328 | | | | | |
| 56 Tert-amyl methyl ether | 73 | | 5.347 | | | | | |
| 58 1,2-Dichloroethane | 62 | | 5.365 | | | | | |
| 136 2,4,4-Trimethyl-1-pentene | 55 | | 5.736 | | | | | 1 |
| 62 Trichloroethene | 95 | | 5.852 | | | | | |
| 135 2,4,4-Trimethyl-2-pentene | 97 | | 5.918 | | | | | |
| 64 Methylcyclohexane | 83 | | 5.985 | | | | | |
| 65 1,2-Dichloropropane | 63 | | 6.077 | | | | | |
| 66 1,4-Dioxane | 88 | | 6.174 | | | | | |
| 67 Dibromomethane | 93 | | 6.211 | | | | | |
| 68 Dichlorobromomethane | 83 | | 6.320 | | | | | |
| 72 cis-1,3-Dichloropropene | 75 | | 6.697 | | | | | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | | 6.801 | | | | | 9 |
| 74 Toluene | 92 | | 6.995 | | | | | |
| 77 trans-1,3-Dichloropropene | 75 | | 7.214 | | | | | |
| 79 1,1,2-Trichloroethane | 83 | | 7.415 | | | | | |
| 81 Tetrachloroethene | 166 | | 7.519 | | | | | |
| 82 1,3-Dichloropropane | 76 | | 7.585 | | | | | |
| 80 2-Hexanone | 43 | | 7.592 | | | | | |
| 83 Chlorodibromomethane | 129 | | 7.829 | | | | | |
| 84 Ethylene Dibromide | 107 | | 7.957 | | | | | |
| 87 Chlorobenzene | 112 | | 8.413 | | | | | |
| 88 Ethylbenzene | 91 | | 8.474 | | | | | |
| 89 1,1,1,2-Tetrachloroethane | 131 | | 8.492 | | | | | |
| 90 m-Xylene & p-Xylene | 106 | | 8.589 | | | | | 9 |
| 91 o-Xylene | 106 | | 9.021 | | | | | |
| 92 Styrene | 104 | | 9.046 | | | | | |
| 95 Bromoform | 173 | | 9.319 | | | | | |
| 94 Isopropylbenzene | 105 | | 9.386 | | | | | |
| 97 1,1,2,2-Tetrachloroethane | 83 | | 9.757 | | | | | |
| 101 Bromobenzene | 156 | | 9.769 | | | | | |
| 99 N-Propylbenzene | 91 | | 9.800 | | | | | |
| 100 1,2,3-Trichloropropane | 110 | | 9.812 | | | | | |
| 103 2-Chlorotoluene | 126 | | 9.928 | | | | | |
| 102 1,3,5-Trimethylbenzene | 105 | | 9.964 | | | | | |
| 105 4-Chlorotoluene | 126 | | 10.031 | | | | | |
| 106 tert-Butylbenzene | 134 | | 10.281 | | | | | |
| 107 1,2,4-Trimethylbenzene | 105 | | 10.329 | | | | | |
| 109 sec-Butylbenzene | 105 | | 10.481 | | | | | 9 |
| 110 4-Isopropyltoluene | 119 | | 10.603 | | | | | |
| 111 1,3-Dichlorobenzene | 146 | | 10.639 | | | | | 9 |
| 113 1,4-Dichlorobenzene | 146 | | 10.725 | | | | | 9 |
| 115 n-Butylbenzene | 91 | | 10.974 | | | | | |
| 116 1,2-Dichlorobenzene | 146 | | 11.065 | | | | | 9 |
| 117 1,2-Dibromo-3-Chloropropane | 75 | | 11.741 | | | | | |
| 119 1,2,4-Trichlorobenzene | 180 | | 12.385 | | | | | |
| 120 Hexachlorobutadiene | 225 | | 12.483 | | | | | |
| 121 Naphthalene | 128 | | 12.623 | | | | | 9 |

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

QC Flag Legend

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

TestAmerica Buffalo
Tentatively Identified Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4311.D | | |
| Lims ID: | 480-29976-C-8-A | Client ID: | OC-SB-491-6.0/8.0-XXX |
| Inject. Date: | 14-Dec-2012 04:08:30 | Dil. Factor: | 1.0000 |
| Sample Type: | Client | | |
| Sample ID: | 480-29976-C-8-A | | |
| Misc. Info.: | 480-0017526-015 =480-0017526-015 | | |
| Operator: | CDC | Instrument ID: | HP5973F |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 7 |
| Lims Batch ID: | 95715 | Lims Sample ID: | 15 |
| Detector: | MS SCAN | | |
| Method: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F-8260 SOIL.m | | |
| Last Update: | 14-Dec-2012 11:30:48 | Calib Date: | 11-Dec-2012 23:36:30 |
| Tic RT Window: | 1.500 -0.000 | Response: | area |
| Quant By: | Nearest ISTD | Quant LOD: | 10.00000 |
| MS Library: | \\Bufchrom\ChromData\Database\NIST98.L | | |
| Min. Match: | 0 | | |
| Process Host: | XAWRK022 | | |
| First Level Reviewer: ByrnesJ | | Date: | 14-Dec-2012 08:53:51 |

Calibrated Tentative Identified Compound Results

| Compound | RT | Response | Amount ug/kg | Flags |
|---|---|---|---|---|
| Hexane | 3.978 | 1900 | | |

Tentative Identified Compound Results

| RT | Response | Amount ug/kg | Quant Cpnd | Qual | Lib Entry | Flags |
|---|---|---|---|---|---|---|
| 123-48-8 3-Heptene, 2,2,4,6,6-pentamethyl- | | | | | | |
| 10.110 | 111705 | 6.20 | 3 | 91 | 17462 | |
| 15220-85-6 1-Propene, 2-methyl-, tetramer | | | | | | |
| 13.152 | 2598524 | 144.3 | 3 | 53 | 17463 | |
| 107-39-1 1-Pentene, 2,4,4-trimethyl- | | | | | | |
| 13.286 | 1642919 | 91.3 | 3 | 47 | 112169 | |
| 762-62-9 1-Pentene, 4,4-dimethyl- | | | | | | |
| 13.365 | 1113354 | 61.8 | 3 | 22 | 112163 | |

Quantitation Compounds

| Compound | RT | Response | Amount ug/kg |
|---|---|---|---|
| * 3 1,4-Dichlorobenzene-d4 | 10.700 | 900170 | 50.0 |

QC Flag Legend

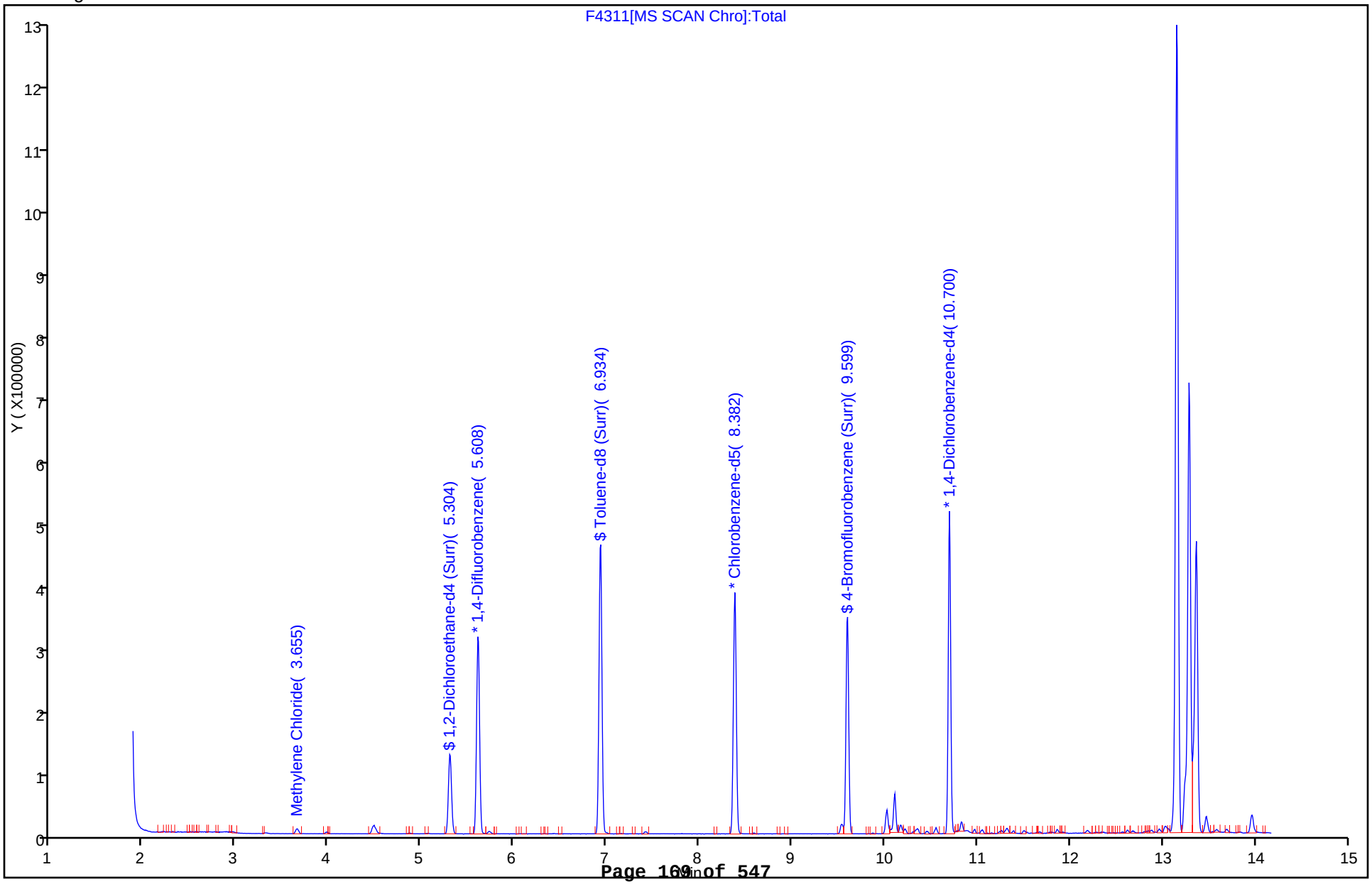
Processing Flags

Report Date: 21-Dec-2012 14:53:41 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4311.D | | |
| Injection Date: | 14-Dec-2012 04:08:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-491-6.0/8.0-XXX | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 15 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:

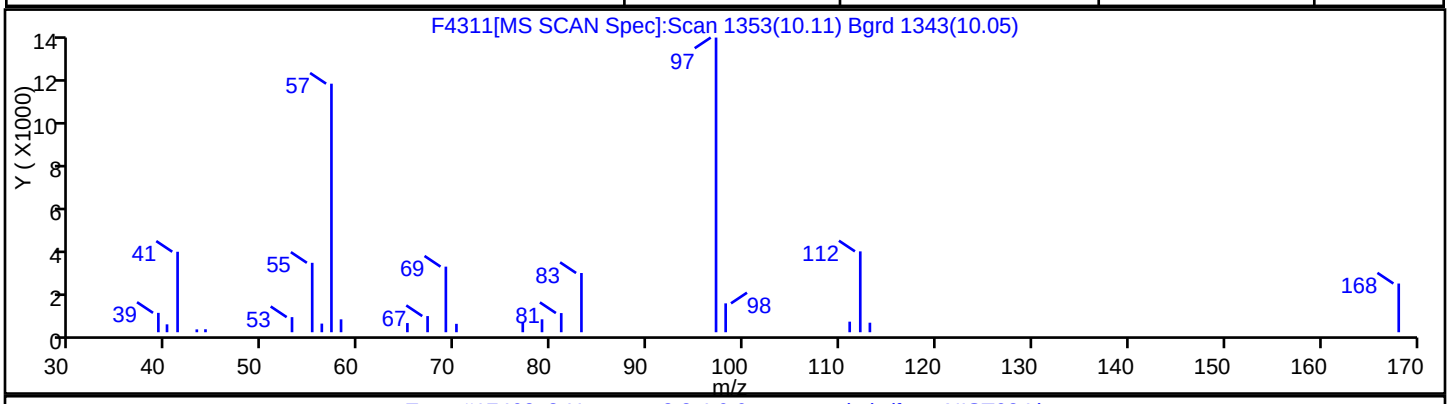


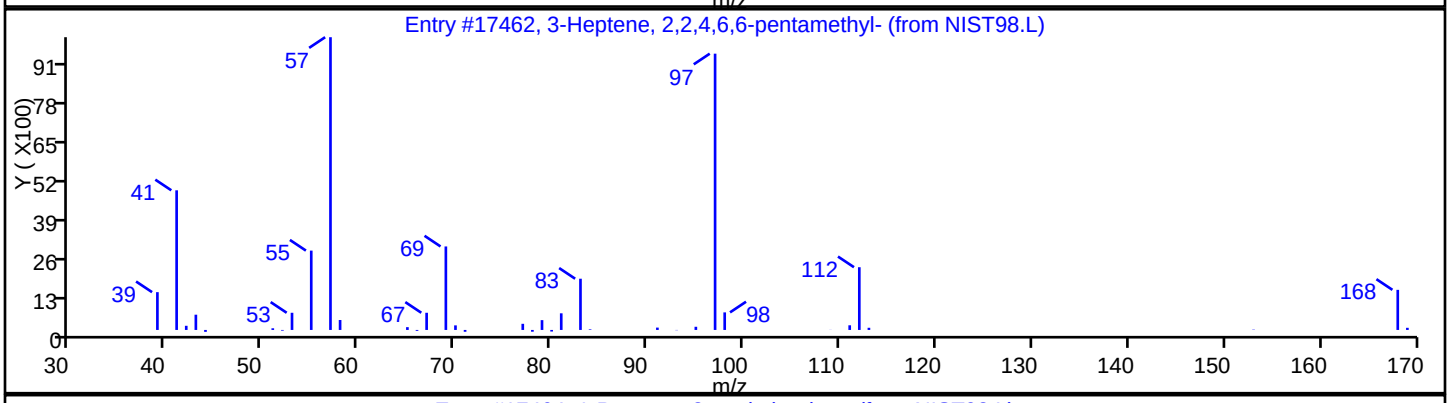
Report Date: 21-Dec-2012 14:53:41 Chrom Revision: 2.0 22-Oct-2012 16:30:48

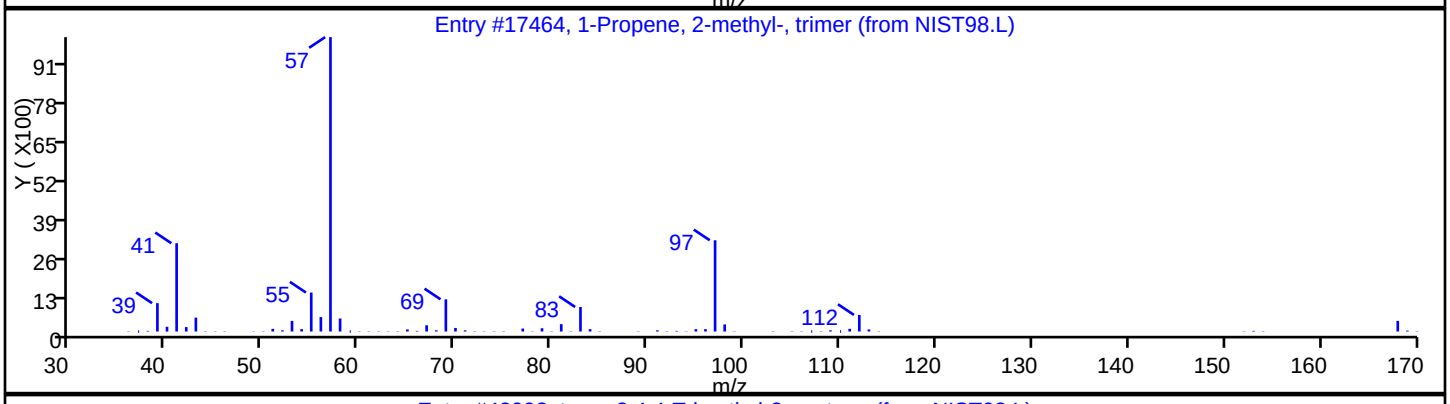
TestAmerica Buffalo

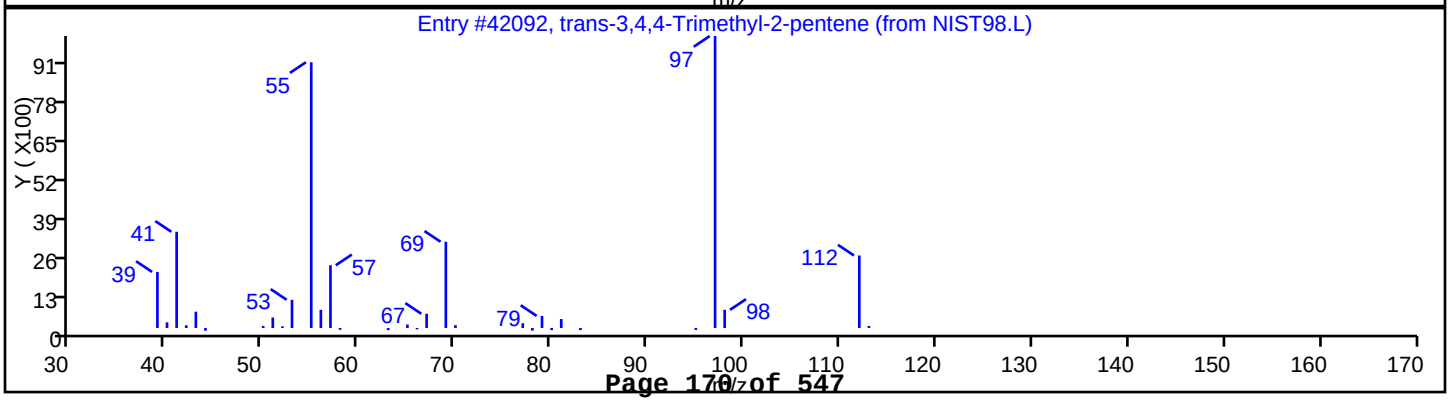
| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4311.D | | |
| Injection Date: | 14-Dec-2012 04:08:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-491-6.0/8.0-XXX | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 15 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | 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 | 91 |
| 1-Propene, 2-methyl-, trimer | 7756-94-7 | NIST98.L | 17464 | 78 |
| trans-3,4,4-Trimethyl-2-pentene | 39761-64-3 | NIST98.L | 42092 | 64 |



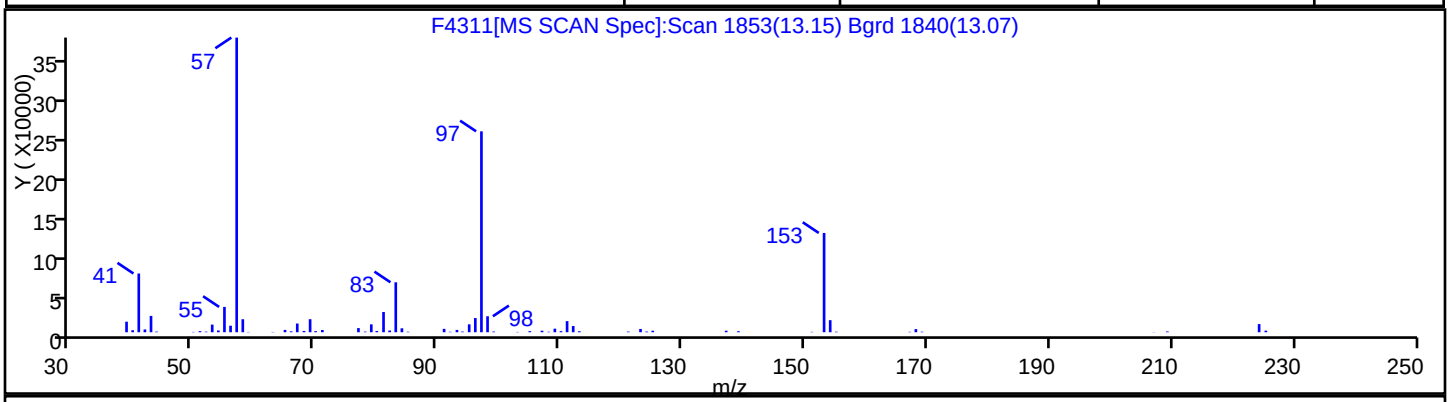



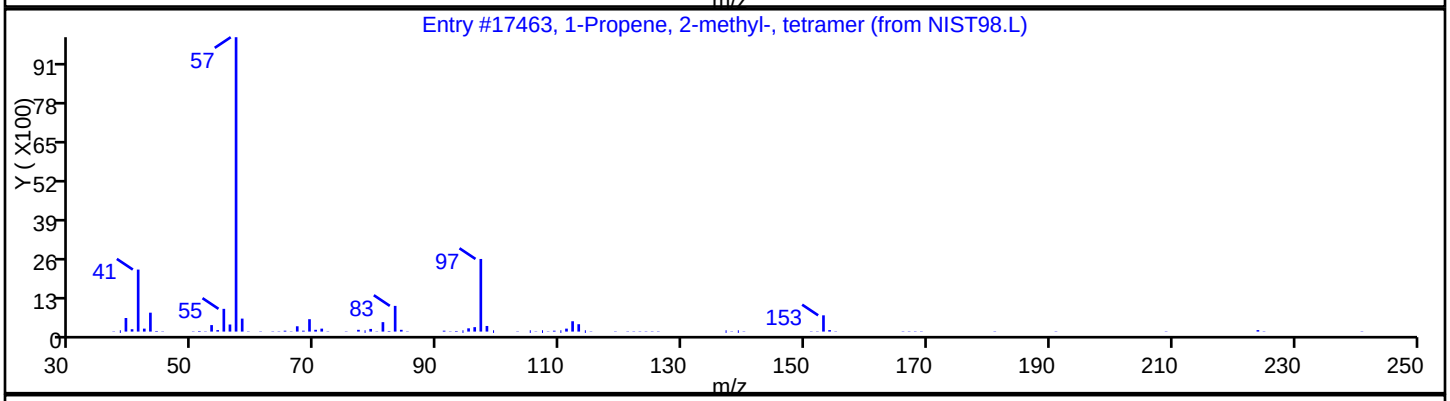
Report Date: 21-Dec-2012 14:53:41 Chrom Revision: 2.0 22-Oct-2012 16:30:48

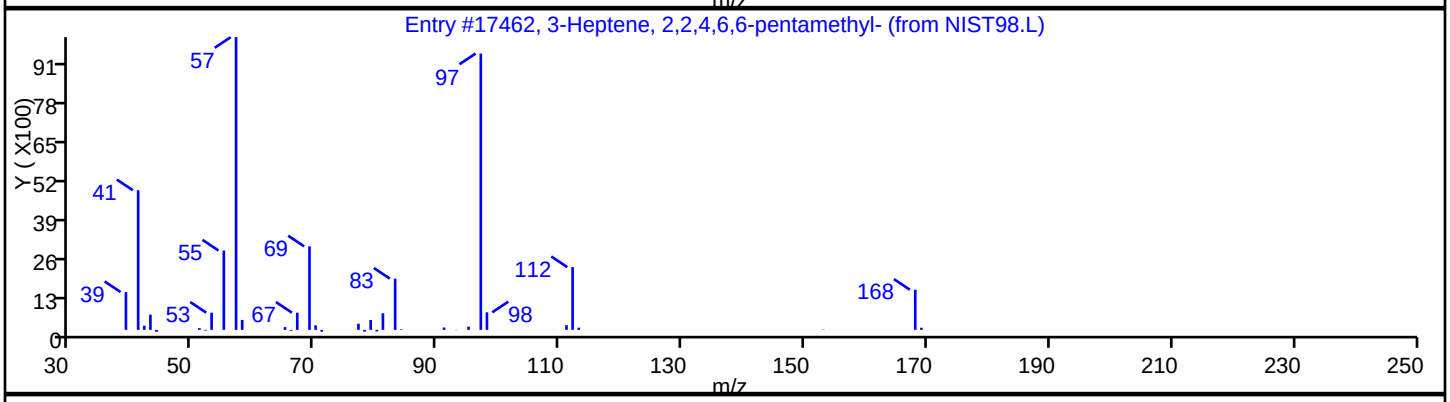
TestAmerica Buffalo

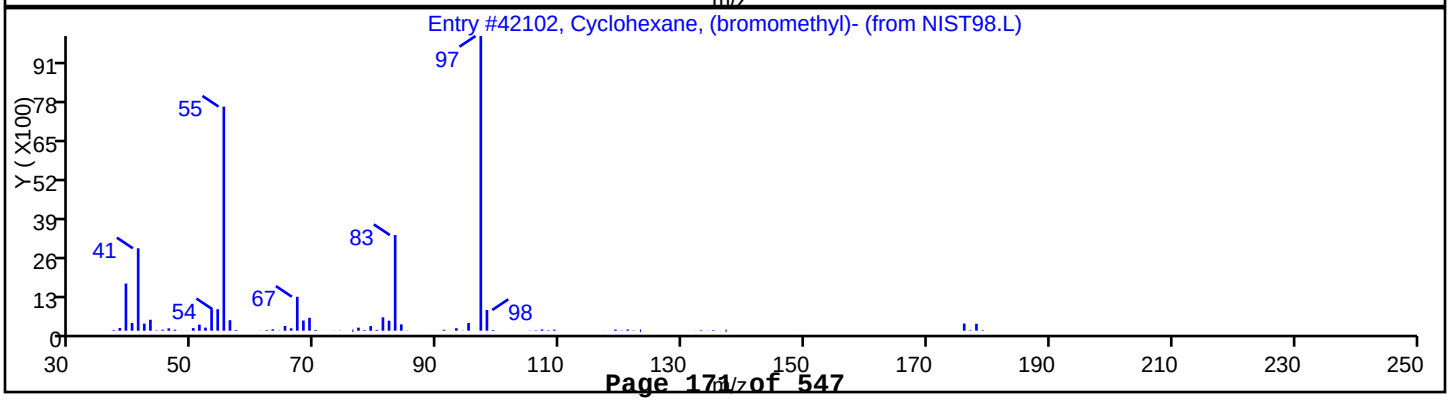
| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4311.D | | |
| Injection Date: | 14-Dec-2012 04:08:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-491-6.0/8.0-XXX | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 15 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| 1-Propene, 2-methyl-, tetramer | 15220-85-6 | NIST98.L | 17463 | 53 |
| 3-Heptene, 2,2,4,6,6-pentamethyl- | 123-48-8 | NIST98.L | 17462 | 53 |
| Cyclohexane, (bromomethyl)- | 2550-36-9 | NIST98.L | 42102 | 35 |



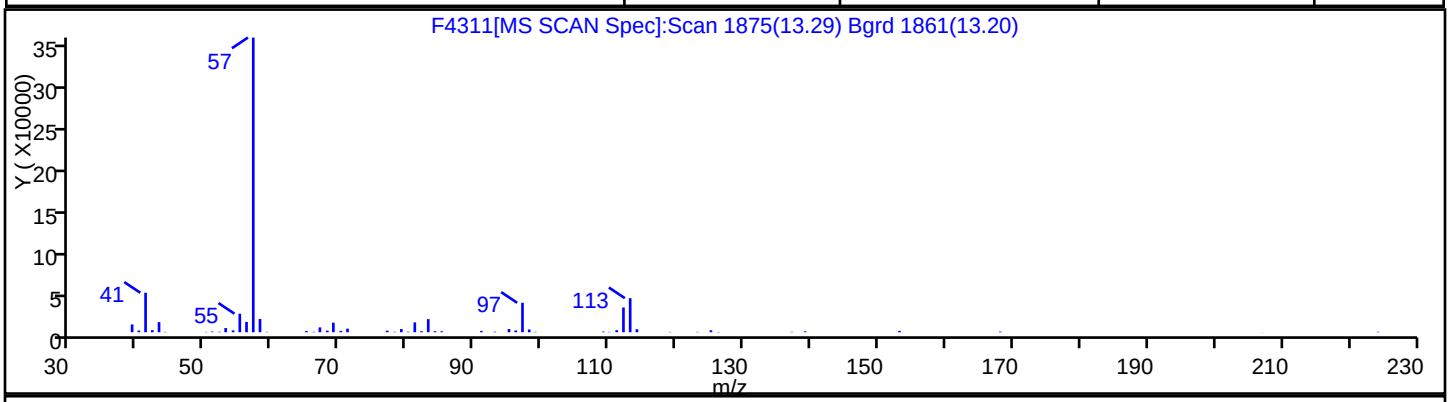



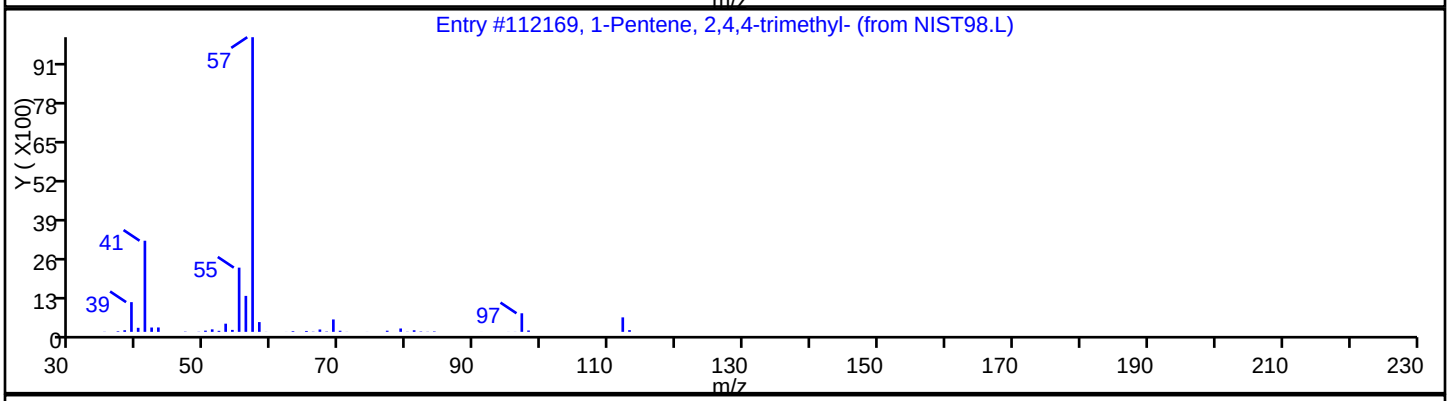
Report Date: 21-Dec-2012 14:53:41 Chrom Revision: 2.0 22-Oct-2012 16:30:48

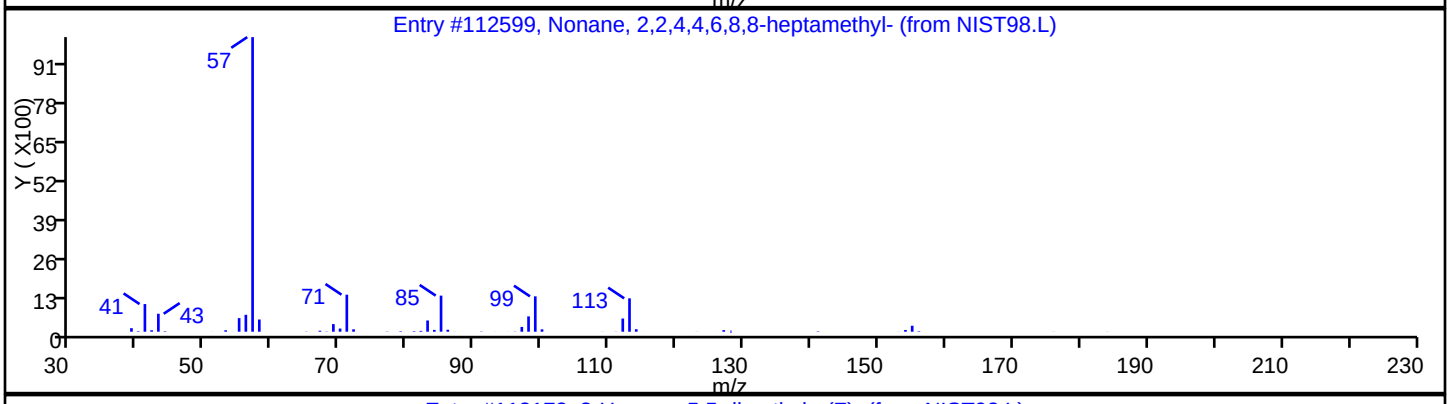
TestAmerica Buffalo

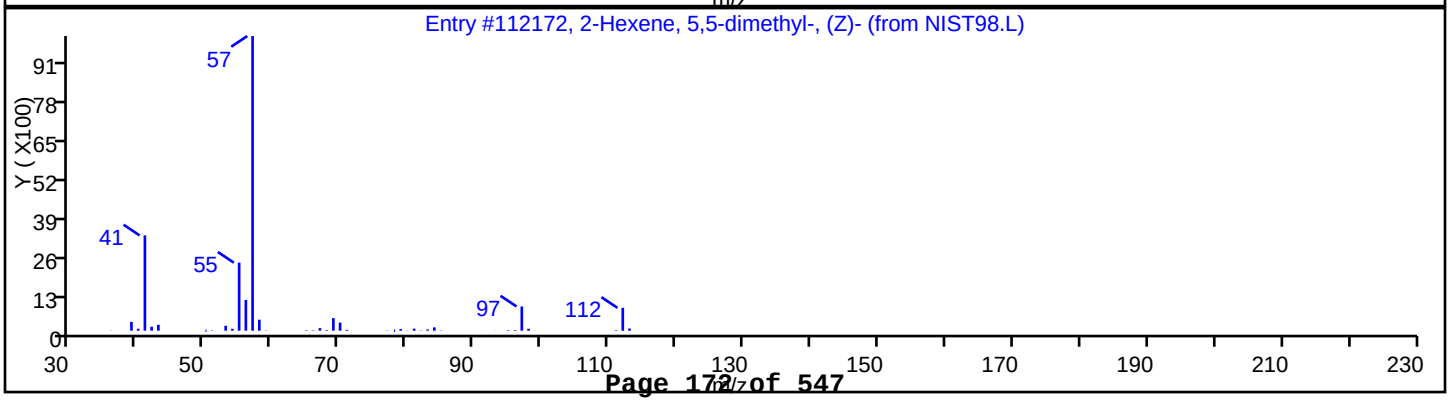
| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4311.D | | |
| Injection Date: | 14-Dec-2012 04:08:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-491-6.0/8.0-XXX | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 15 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | 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 | 112169 | 47 |
| Nonane, 2,2,4,4,6,8,8-heptamethyl- | 4390-4-9 | NIST98.L | 112599 | 45 |
| 2-Hexene, 5,5-dimethyl-, (Z)- | 39761-61-0 | NIST98.L | 112172 | 43 |



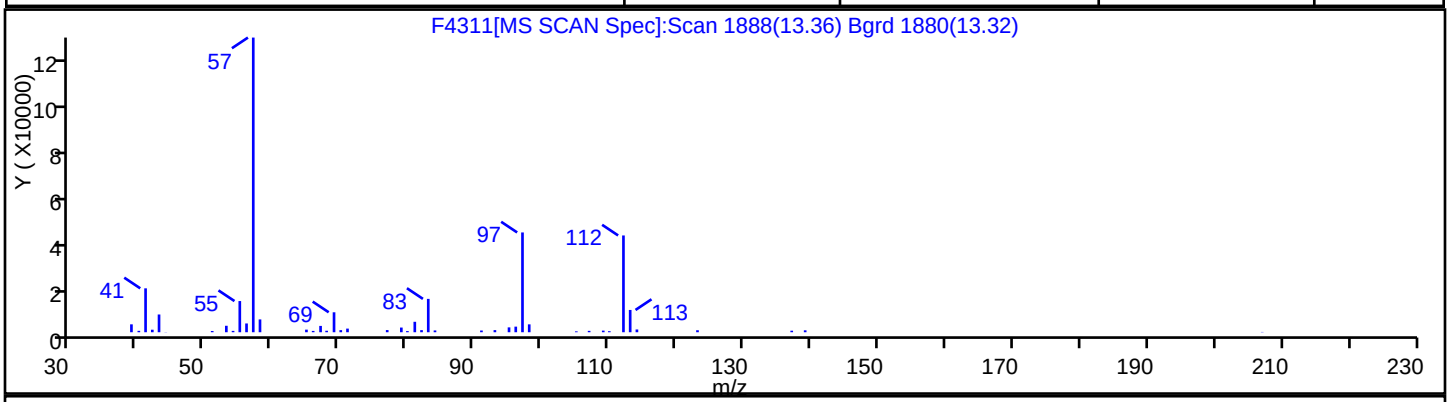



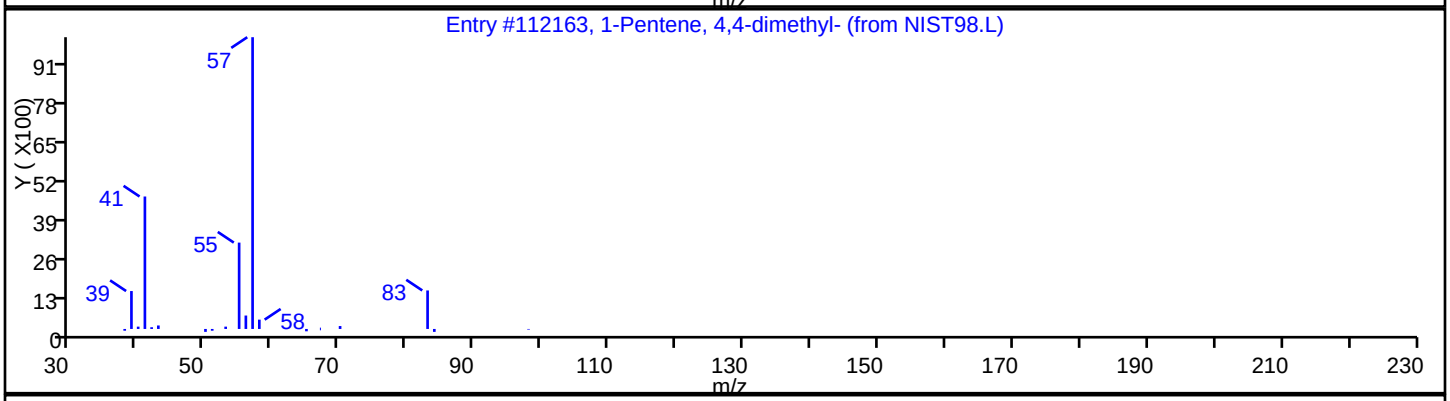
Report Date: 21-Dec-2012 14:53:41 Chrom Revision: 2.0 22-Oct-2012 16:30:48

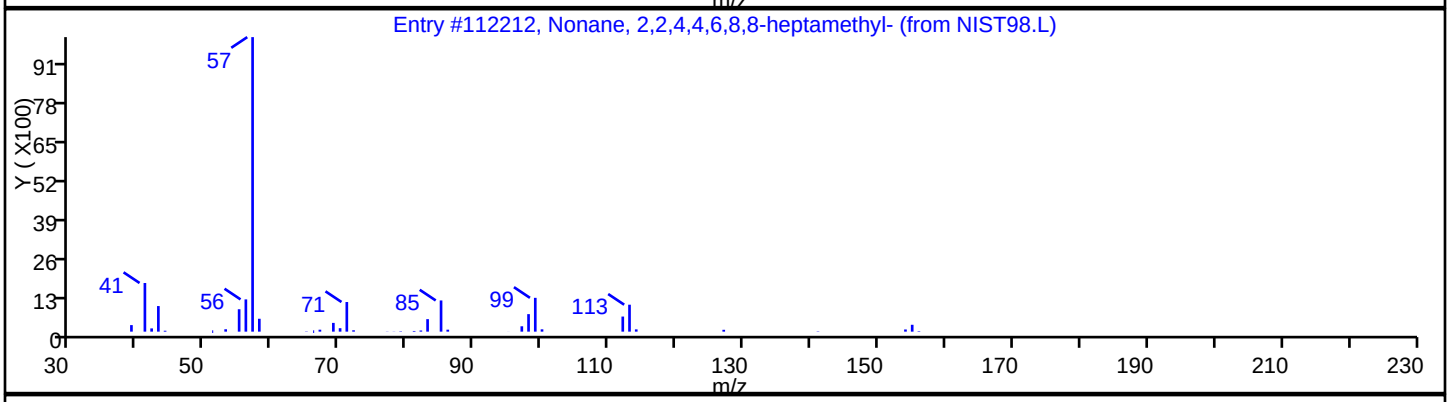
TestAmerica Buffalo

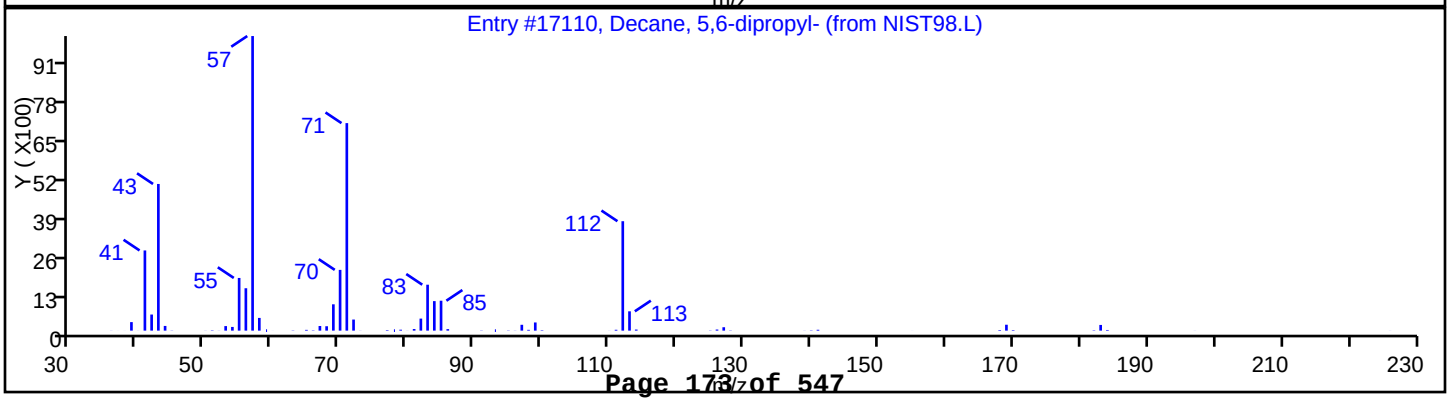
| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4311.D | | |
| Injection Date: | 14-Dec-2012 04:08:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-491-6.0/8.0-XXX | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 15 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| 1-Pentene, 4,4-dimethyl- | 762-62-9 | NIST98.L | 112163 | 22 |
| Nonane, 2,2,4,4,6,8,8-heptamethyl- | 4390-4-9 | NIST98.L | 112212 | 12 |
| Decane, 5,6-dipropyl- | 119209-20-0 | NIST98.L | 17110 | 9 |



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-29976-1
SDG No.:
Client Sample ID: OC-DUP-3
Lab Sample ID: 480-29976-9
Matrix: Solid
Lab File ID: F4315.D
Analysis Method: 8260C
Date Collected: 12/11/2012 00:00
Sample wt/vol: 5.37(g)
Date Analyzed: 12/14/2012 05:49
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture: 5.3
Level: (low/med) Low
Analysis Batch No.: 95715
Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 107-39-1 | 2,4,4-Trimethyl-1-pentene | ND | | 4.9 | 0.42 |
| 107-40-4 | 2,4,4-Trimethyl-2-pentene | ND | | 4.9 | 0.52 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 2037-26-5 | Toluene-d8 (Surr) | 90 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 92 | | 70-130 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 87 | | 70-130 |

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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Client Sample ID: OC-DUP-3 Lab Sample ID: 480-29976-9

Matrix: Solid Lab File ID: F4315.D

Analysis Method: 8260C Date Collected: 12/11/2012 00:00

Sample wt/vol: 5.37(g) Date Analyzed: 12/14/2012 05:49

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: 5.3 Level: (low/med) Low

Analysis Batch No.: 95715 Units: ug/Kg

Number TICs Found: 3 TIC Result Total: 220

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| 15220-85-6 | 1-Propene, 2-methyl-, tetramer | 13.15 | 110 | T J N |
| 15220-85-6 | 1-Propene, 2-methyl-, tetramer | 13.29 | 64 | T J N |
| 5171-85-7 | 2,2,4,4,5,5,7,7-Octamethyloctane | 13.37 | 46 | T J N |

TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4315.D | | |
| Lims ID: | 480-29976-C-9-A | Client ID: | OC-DUP-3 |
| Inject. Date: | 14-Dec-2012 05:49:30 | Dil. Factor: | 1.0000 |
| Sample Type: | Client | | |
| Sample ID: | 480-29976-C-9-A | | |
| Misc. Info.: | 480-0017526-018 =480-0017526-018 | | |
| Operator: | CDC | Instrument ID: | HP5973F |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 11 |
| Lims Batch ID: | 95715 | Lims Sample ID: | 18 |
| Detector: | MS SCAN | | |
| Method: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F-8260 SOIL.m | | |
| Last Update: | 14-Dec-2012 08:59:22 | Calib Date: | 11-Dec-2012 23:36:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4239.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK015 | | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 5.608 | 5.608 | 0.0 | 93 | 334611 | 50.0 | |
| * 2 Chlorobenzene-d5 | 82 | 8.382 | 8.382 | 0.0 | 79 | 147003 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 10.700 | 10.700 | 0.0 | 92 | 167898 | 50.0 | |
| $ 4 1,2-Dichloroethane-d4 (Surr) | 67 | 5.310 | 5.304 | 0.006 | 99 | 55975 | 46.1 | |
| $ 5 Toluene-d8 (Surr) | 98 | 6.935 | 6.928 | 0.007 | 91 | 396994 | 44.8 | |
| $ 6 4-Bromofluorobenzene (Surr) | 174 | 9.599 | 9.599 | 0.0 | 92 | 136121 | 43.5 | |
| 10 Dichlorodifluoromethane | 85 | | 1.995 | | | | | |
| 12 Chloromethane | 50 | | 2.147 | | | | | |
| 13 Vinyl chloride | 62 | | 2.268 | | | | | |
| 14 Bromomethane | 94 | | 2.548 | | | | | |
| 15 Chloroethane | 64 | | 2.621 | | | | | |
| 17 Trichlorofluoromethane | 101 | | 2.846 | | | | | |
| 18 Ethyl ether | 59 | | 3.035 | | | | | |
| 21 1,1,2-Trichloro-1,2,2-trifluoroe | 101 | | 3.224 | | | | | |
| 22 1,1-Dichloroethene | 96 | | 3.254 | | | | | |
| 23 Acetone | 43 | | 3.303 | | | | | 9 |
| 26 Carbon disulfide | 76 | | 3.467 | | | | | |
| 27 Methyl acetate | 43 | | 3.528 | | | | | |
| 30 Methylene Chloride | 84 | 3.655 | 3.643 | 0.012 | 43 | 1635 | 0.5652 | |
| 32 Methyl tert-butyl ether | 73 | | 3.801 | | | | | |
| 34 trans-1,2-Dichloroethene | 96 | | 3.832 | | | | | |
| 36 Isopropyl ether | 45 | | 4.130 | | | | | |
| 39 1,1-Dichloroethane | 63 | | 4.173 | | | | | |
| 41 Tert-butyl ethyl ether | 59 | | 4.416 | | | | | |
| 43 2-Butanone (MEK) | 43 | | 4.617 | | | | | 9 |
| 44 2,2-Dichloropropane | 77 | | 4.623 | | | | | 9 |
| 45 cis-1,2-Dichloroethene | 96 | | 4.629 | | | | | |
| 48 Chlorobromomethane | 128 | | 4.842 | | | | | |
| 49 Tetrahydrofuran | 42 | | 4.854 | | | | | 9 |
| 50 Chloroform | 83 | | 4.872 | | | | | |
| 51 1,1,1-Trichloroethane | 97 | | 5.018 | | | | | |
| 52 Cyclohexane | 56 | | 5.049 | | | | | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 54 1,1-Dichloropropene | 75 | | 5.140 | | | | | |
| 55 Carbon tetrachloride | 117 | | 5.146 | | | | | |
| 57 Benzene | 78 | | 5.328 | | | | | |
| 56 Tert-amyl methyl ether | 73 | | 5.347 | | | | | |
| 58 1,2-Dichloroethane | 62 | | 5.365 | | | | | |
| 136 2,4,4-Trimethyl-1-pentene | 55 | | 5.736 | | | | | |
| 62 Trichloroethene | 95 | | 5.852 | | | | | |
| 135 2,4,4-Trimethyl-2-pentene | 97 | | 5.918 | | | | | |
| 64 Methylcyclohexane | 83 | | 5.985 | | | | | |
| 65 1,2-Dichloropropane | 63 | | 6.077 | | | | | |
| 66 1,4-Dioxane | 88 | | 6.174 | | | | | |
| 67 Dibromomethane | 93 | | 6.211 | | | | | |
| 68 Dichlorobromomethane | 83 | | 6.320 | | | | | |
| 72 cis-1,3-Dichloropropene | 75 | | 6.697 | | | | | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | | 6.801 | | | | | 9 |
| 74 Toluene | 92 | | 6.995 | | | | | 9 |
| 77 trans-1,3-Dichloropropene | 75 | | 7.214 | | | | | |
| 79 1,1,2-Trichloroethane | 83 | | 7.415 | | | | | |
| 81 Tetrachloroethene | 166 | | 7.519 | | | | | |
| 82 1,3-Dichloropropane | 76 | | 7.585 | | | | | |
| 80 2-Hexanone | 43 | | 7.592 | | | | | 9 |
| 83 Chlorodibromomethane | 129 | | 7.829 | | | | | |
| 84 Ethylene Dibromide | 107 | | 7.957 | | | | | |
| 87 Chlorobenzene | 112 | | 8.413 | | | | | |
| 88 Ethylbenzene | 91 | | 8.474 | | | | | |
| 89 1,1,1,2-Tetrachloroethane | 131 | | 8.492 | | | | | |
| 90 m-Xylene & p-Xylene | 106 | | 8.589 | | | | | 9 |
| 91 o-Xylene | 106 | | 9.021 | | | | | |
| 92 Styrene | 104 | | 9.046 | | | | | 9 |
| 95 Bromoform | 173 | | 9.319 | | | | | |
| 94 Isopropylbenzene | 105 | | 9.386 | | | | | |
| 97 1,1,2,2-Tetrachloroethane | 83 | | 9.757 | | | | | |
| 101 Bromobenzene | 156 | | 9.769 | | | | | |
| 99 N-Propylbenzene | 91 | | 9.800 | | | | | 9 |
| 100 1,2,3-Trichloropropane | 110 | | 9.812 | | | | | |
| 103 2-Chlorotoluene | 126 | | 9.928 | | | | | |
| 102 1,3,5-Trimethylbenzene | 105 | | 9.964 | | | | | |
| 105 4-Chlorotoluene | 126 | | 10.031 | | | | | |
| 106 tert-Butylbenzene | 134 | | 10.281 | | | | | |
| 107 1,2,4-Trimethylbenzene | 105 | | 10.329 | | | | | |
| 109 sec-Butylbenzene | 105 | | 10.481 | | | | | 9 |
| 110 4-Isopropyltoluene | 119 | | 10.603 | | | | | |
| 111 1,3-Dichlorobenzene | 146 | | 10.639 | | | | | 9 |
| 113 1,4-Dichlorobenzene | 146 | | 10.725 | | | | | 9 |
| 115 n-Butylbenzene | 91 | | 10.974 | | | | | |
| 116 1,2-Dichlorobenzene | 146 | | 11.065 | | | | | 9 |
| 117 1,2-Dibromo-3-Chloropropane | 75 | | 11.741 | | | | | |
| 119 1,2,4-Trichlorobenzene | 180 | | 12.385 | | | | | |
| 120 Hexachlorobutadiene | 225 | | 12.483 | | | | | |
| 121 Naphthalene | 128 | | 12.623 | | | | | 9 |
| 122 1,2,3-Trichlorobenzene | 180 | | 12.842 | | | | | |

QC Flag Legend

Processing Flags
9 - Failed A Reference Spectral Test

TestAmerica Buffalo
Tentatively Identified Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4315.D | | |
| Lims ID: | 480-29976-C-9-A | Client ID: | OC-DUP-3 |
| Inject. Date: | 14-Dec-2012 05:49:30 | Dil. Factor: | 1.0000 |
| Sample Type: | Client | | |
| Sample ID: | 480-29976-C-9-A | | |
| Misc. Info.: | 480-0017526-018 =480-0017526-018 | | |
| Operator: | CDC | Instrument ID: | HP5973F |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 11 |
| Lims Batch ID: | 95715 | Lims Sample ID: | 18 |
| Detector: | MS SCAN | | |

| | | | |
|---|---|---|---|
| Method: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F-8260 SOIL.m | | |
| Last Update: | 14-Dec-2012 08:59:22 | Calib Date: | 11-Dec-2012 23:36:30 |
| Tic RT Window: | 1.500 -0.000 | Response: | area |
| Quant By: | Nearest ISTD | Quant LOD: | 10.00000 |
| MS Library: | \\Bufchrom\ChromData\Database\NIST98.L | | |
| Min. Match: | 0 | | |
| Process Host: | XAWRK015 | | |

Tentative Identified Compound Results

| RT | Response | Amount ug/kg | Quant Cpnd | Qual | Lib Entry | Flags |
|---|---|---|---|---|---|---|
| 15220-85-6 1-Propene, 2-methyl-, tetramer | | | | | | |
| 13.152 | 1942509 | 108.1 | 3 | 53 | 17463 | |
| 15220-85-6 1-Propene, 2-methyl-, tetramer | | | | | | |
| 13.286 | 1170813 | 65.2 | 3 | 50 | 17463 | |
| 5171-85-7 2,2,4,4,5,5,7,7-Octamethyloctane | | | | | | |
| 13.365 | 831497 | 46.3 | 3 | 25 | 15960 | |

Quantitation Compounds

| Compound | RT | Response | Amount ug/kg |
|---|---|---|---|
| * 3 1,4-Dichlorobenzene-d4 | 10.700 | 898536 | 50.0 |

QC Flag Legend

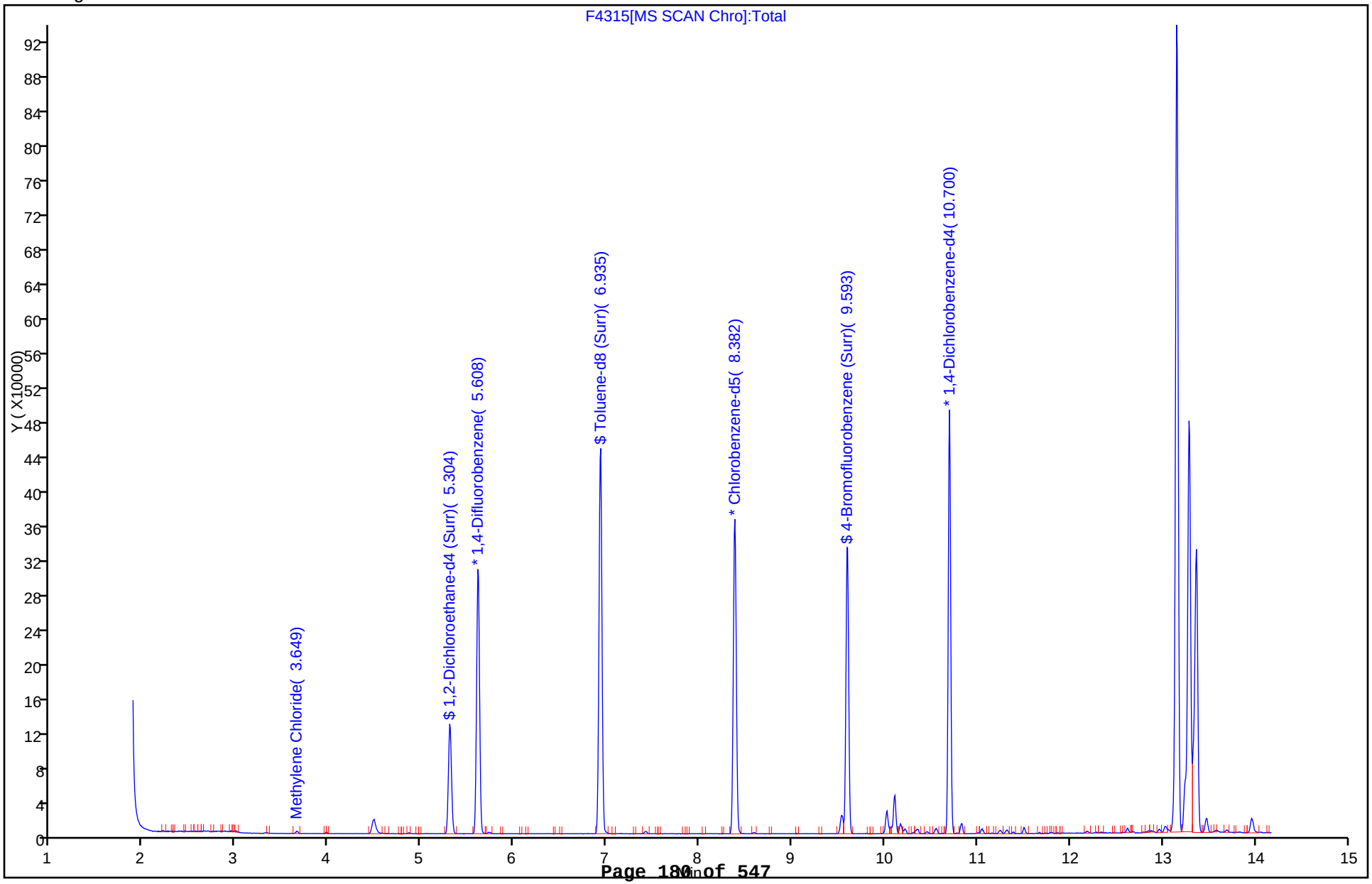
Processing Flags

Report Date: 14-Dec-2012 08:59:28 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4315.D | | |
| Injection Date: | 14-Dec-2012 05:49:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-DUP-3 | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 18 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:

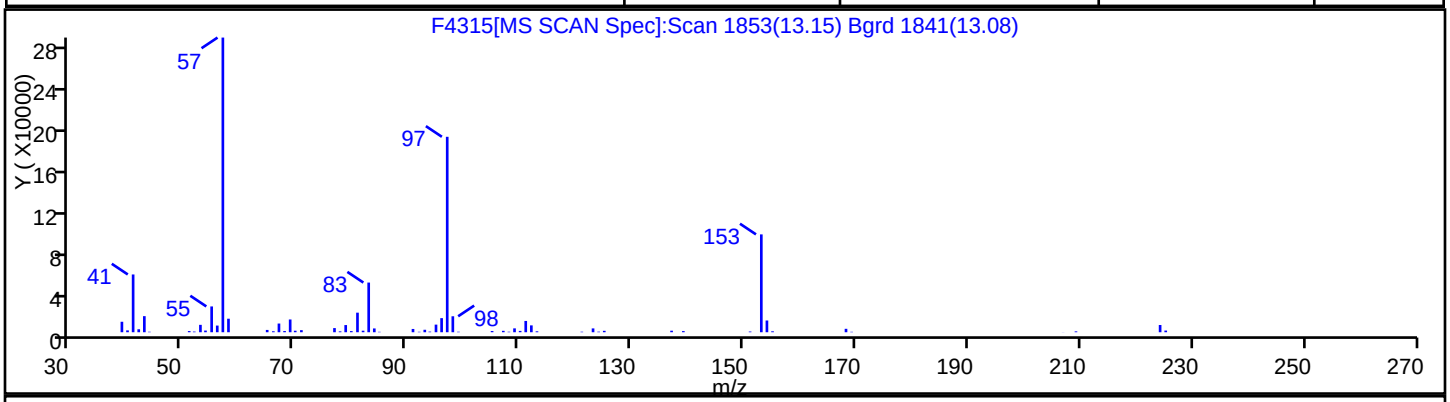


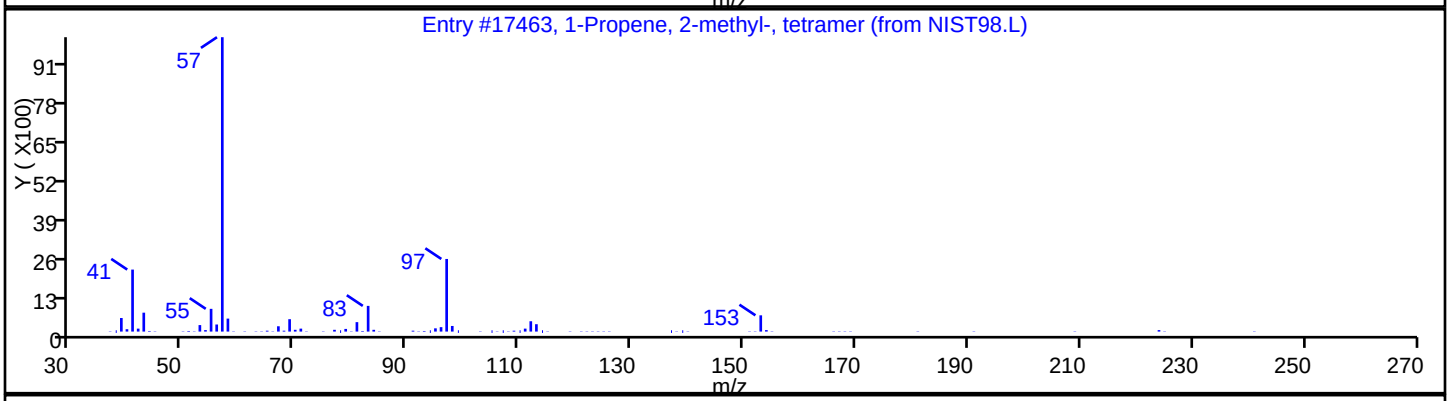
Report Date: 14-Dec-2012 08:59:28 Chrom Revision: 2.0 22-Oct-2012 16:30:48

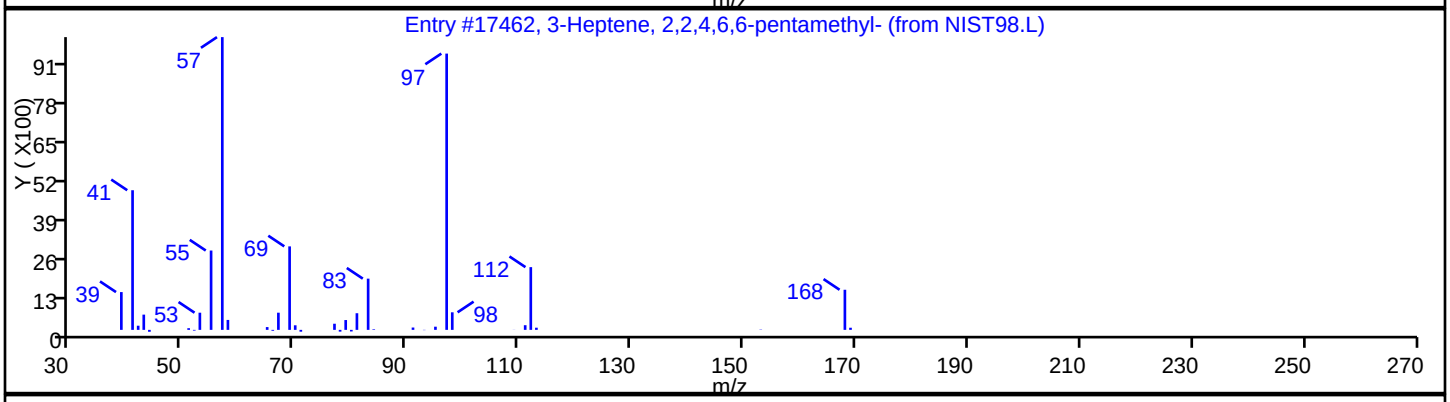
TestAmerica Buffalo

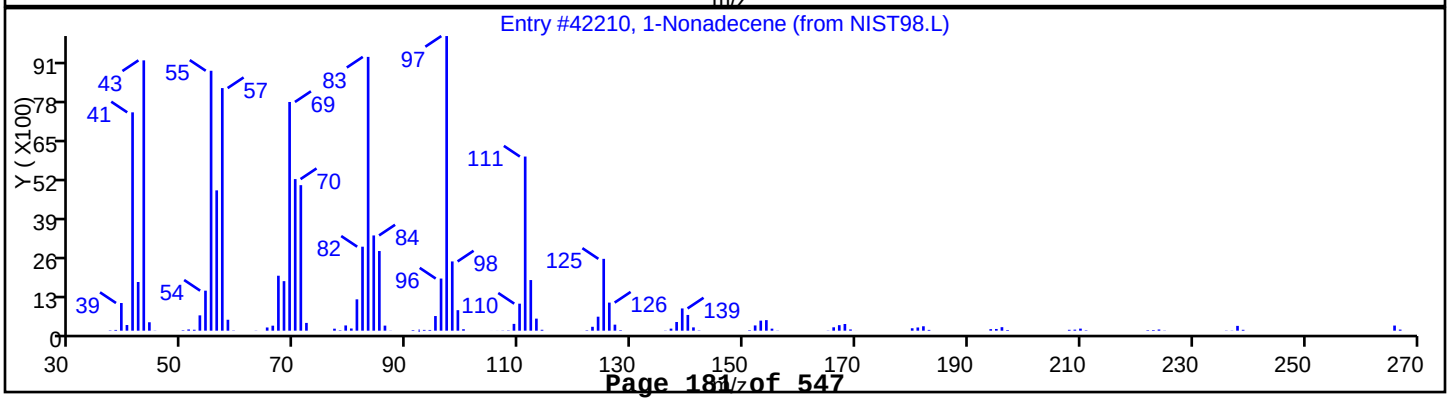
| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4315.D | | |
| Injection Date: | 14-Dec-2012 05:49:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-DUP-3 | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 18 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| 1-Propene, 2-methyl-, tetramer | 15220-85-6 | NIST98.L | 17463 | 53 |
| 3-Heptene, 2,2,4,6,6-pentamethyl- | 123-48-8 | NIST98.L | 17462 | 40 |
| 1-Nonadecene | 18435-45-5 | NIST98.L | 42210 | 38 |



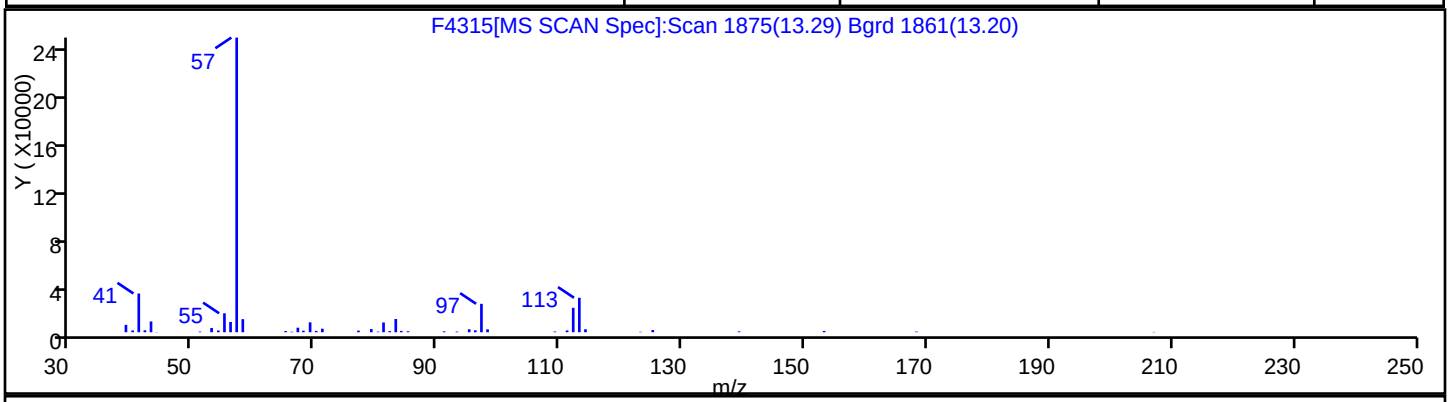



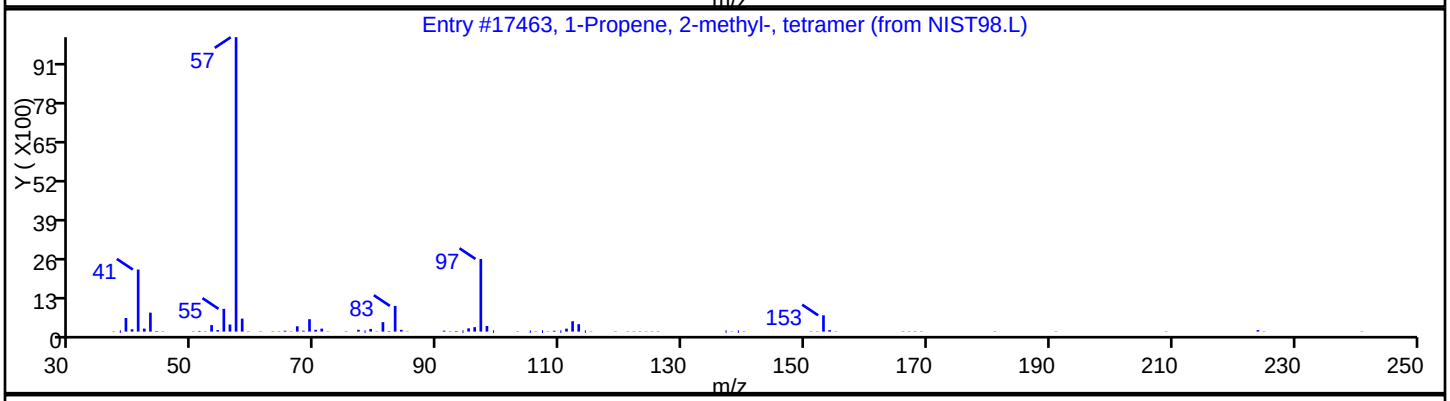
Report Date: 14-Dec-2012 08:59:28 Chrom Revision: 2.0 22-Oct-2012 16:30:48

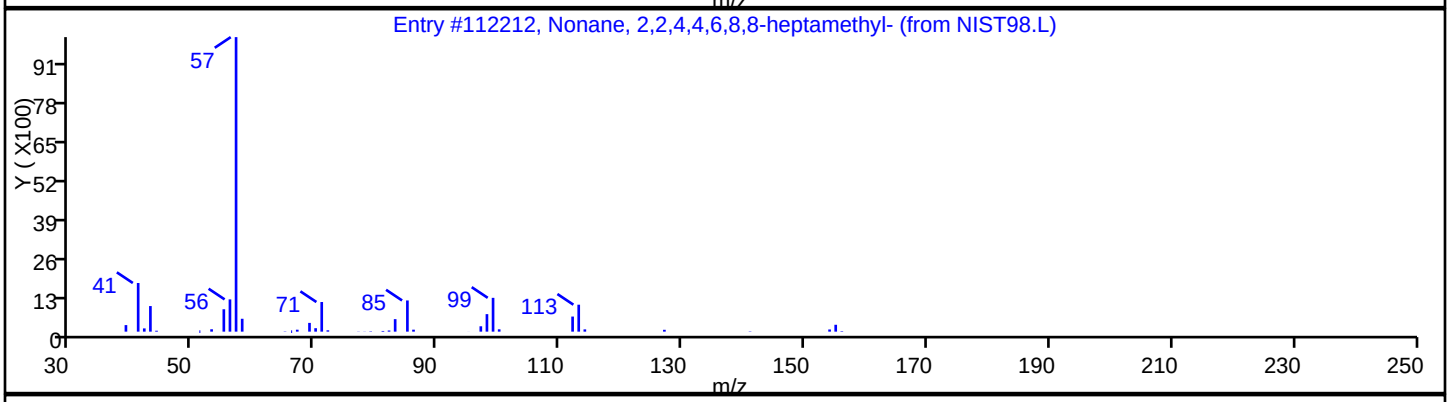
TestAmerica Buffalo

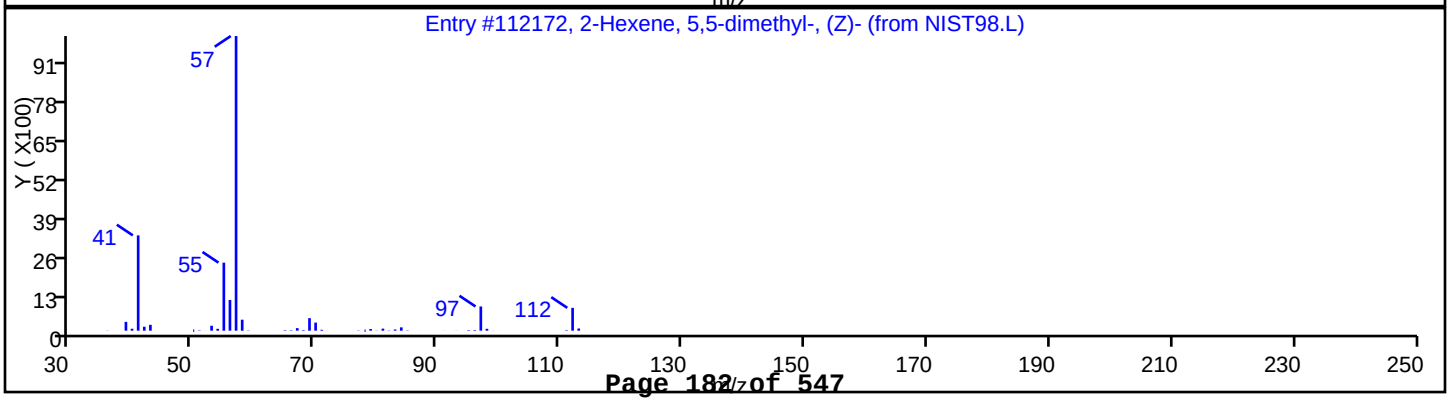
| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4315.D | | |
| Injection Date: | 14-Dec-2012 05:49:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-DUP-3 | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 18 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| 1-Propene, 2-methyl-, tetramer | 15220-85-6 | NIST98.L | 17463 | 50 |
| Nonane, 2,2,4,4,6,8,8-heptamethyl- | 4390-4-9 | NIST98.L | 112212 | 45 |
| 2-Hexene, 5,5-dimethyl-, (Z)- | 39761-61-0 | NIST98.L | 112172 | 43 |



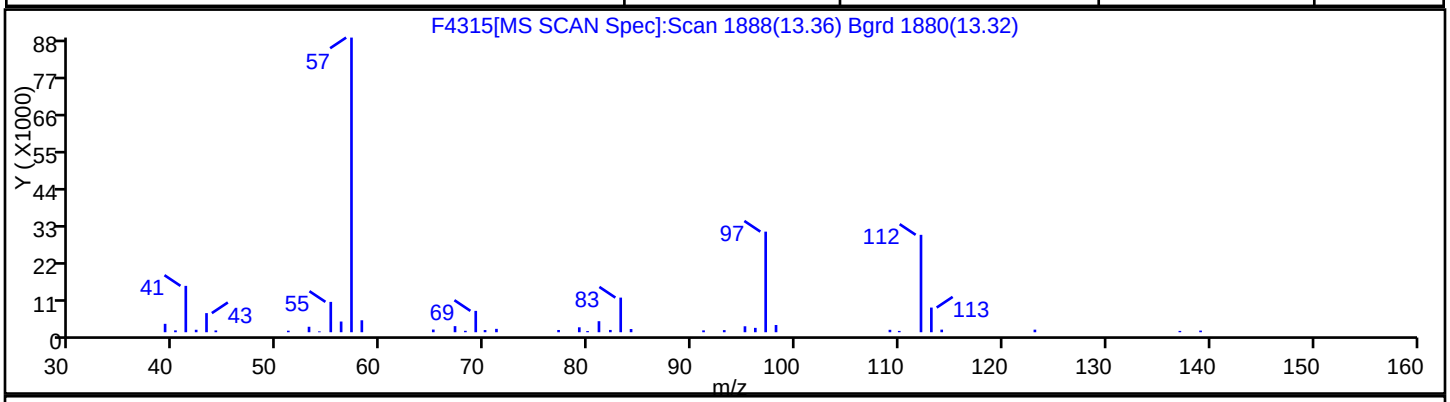



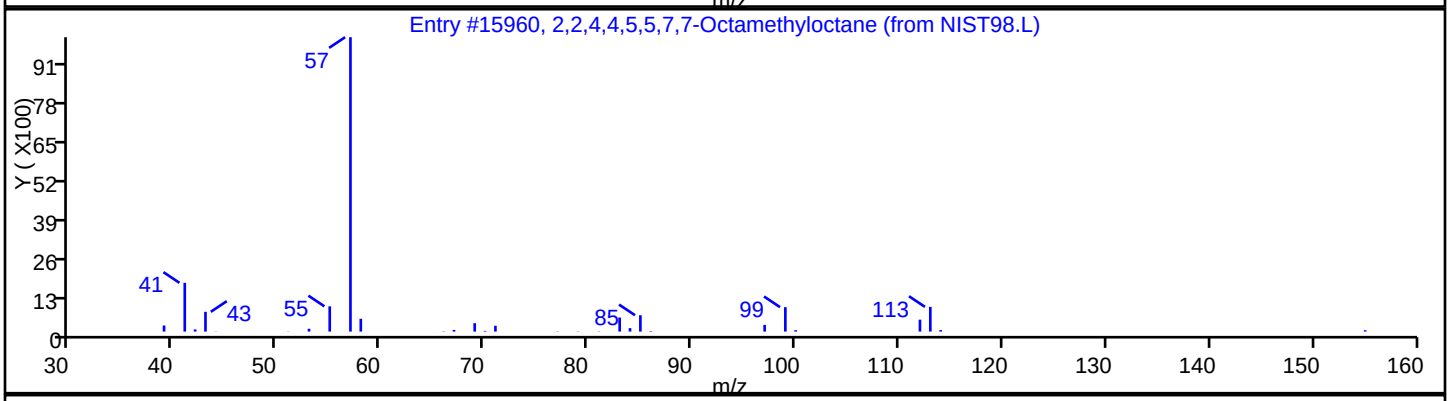
Report Date: 14-Dec-2012 08:59:28 Chrom Revision: 2.0 22-Oct-2012 16:30:48

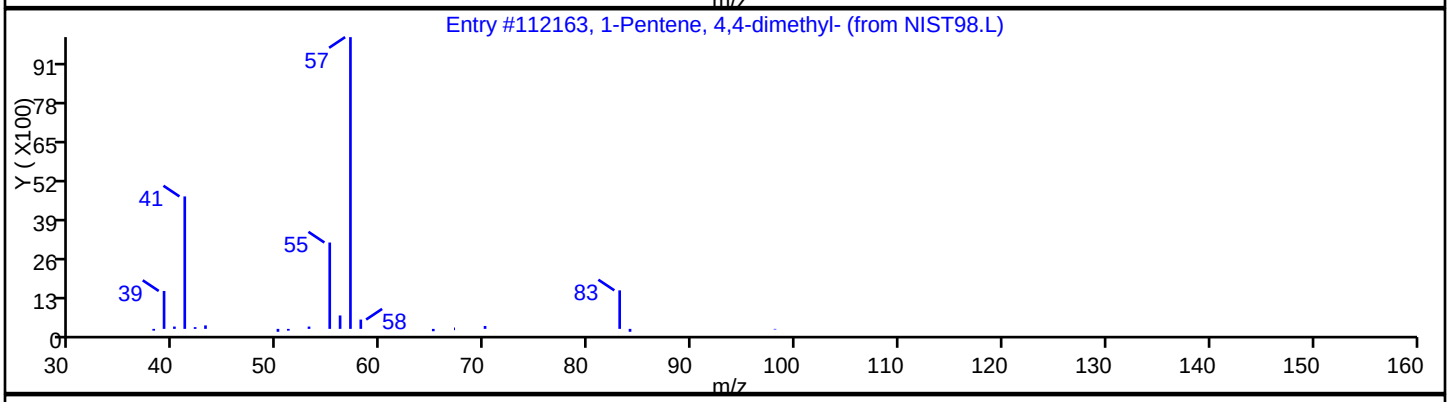
TestAmerica Buffalo

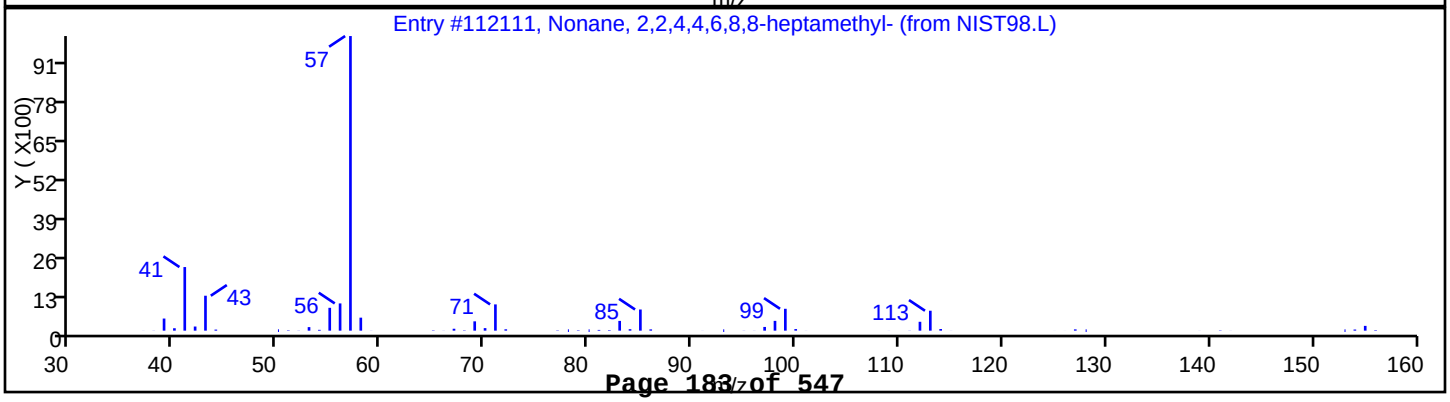
| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4315.D | | |
| Injection Date: | 14-Dec-2012 05:49:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-DUP-3 | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 18 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

| Library Search Compound Match | CAS Number | Library | Entry | Quality |
|---|---|---|---|---|
| 2,2,4,4,5,5,7,7-Octamethyloctane | 5171-85-7 | NIST98.L | 15960 | 25 |
| 1-Pentene, 4,4-dimethyl- | 762-62-9 | NIST98.L | 112163 | 22 |
| Nonane, 2,2,4,4,6,8,8-heptamethyl- | 4390-4-9 | NIST98.L | 112111 | 12 |



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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1 Analy Batch No.: 94870

SDG No.:

Instrument ID: HP5973C GC Column: ZB-624 (30) ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/09/2012 20:11 Calibration End Date: 12/09/2012 23:07 Calibration ID: 11394

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | IC 480-94870/3 | C25045.D |
| Level 2 | IC 480-94870/5 | C25047.D |
| Level 3 | IC 480-94870/6 | C25048.D |
| Level 4 | IC 480-94870/7 | C25049.D |
| Level 5 | ICIS 480-94870/8 | C25050.D |
| Level 6 | IC 480-94870/9 | C25051.D |
| Level 7 | IC 480-94870/10 | C25052.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Dichlorodifluoromethane | 0.3160 | 0.2060<br>0.3172 | 0.3086 | 0.2927 | 0.2878 | Ave | | 0.2881 | | | 0.1000 | 15.0 | | 15.0 | | | |
| Chloromethane | 0.3654 | 0.5094<br>0.3679 | 0.4224 | 0.3887 | 0.3561 | Ave | | 0.4016 | | | 0.0500 | 14.0 | | 15.0 | | | |
| Vinyl chloride | 0.5413<br>0.3696 | 0.3990<br>0.3657 | 0.3996 | 0.3766 | 0.3422 | Lin1 | 0.0651 | 0.3631 | | | 0.1000 | | | | 0.9990 | | 0.9900 |
| Bromomethane | 0.2471 | 0.3232<br>0.2461 | 0.2727 | 0.2536 | 0.2390 | Ave | | 0.2636 | | | 0.0500 | 12.0 | | 15.0 | | | |
| Chloroethane | 0.2450 | 0.2211<br>0.2462 | 0.2695 | 0.2509 | 0.2354 | Ave | | 0.2447 | | | 0.1000 | 6.6 | | 15.0 | | | |
| Trichlorofluoromethane | 0.5201 | 0.4027<br>0.5229 | 0.5471 | 0.5277 | 0.4822 | Ave | | 0.4998 | | | 0.1000 | 10.0 | | 15.0 | | | |
| Acrolein | 0.0623 | 0.0552<br>0.0617 | 0.0585 | 0.0574 | 0.0566 | Ave | | 0.0586 | | | | 4.9 | | 15.0 | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.2598 | 0.1190<br>0.1978 | 0.2403 | 0.2535 | 0.2388 | Lin1 | -0.091 | 0.2450 | | | 0.1000 | | | | 0.9970 | | 0.9900 |
| 1,1-Dichloroethene | 0.2476 | 0.3095<br>0.2812 | 0.2588 | 0.2509 | 0.2407 | Ave | | 0.2668 | | | 0.1000 | 10.0 | | 15.0 | | | |
| Acetone | 0.1546 | 0.1614<br>0.1504 | 0.1520 | 0.1504 | 0.1420 | Ave | | 0.1518 | | | 0.0500 | 4.1 | | 15.0 | | | |
| Iodomethane | 0.3866 | 0.3201<br>0.3735 | 0.3911 | 0.3766 | 0.3646 | Ave | | 0.3688 | | | | 7.0 | | 15.0 | | | |
| Carbon disulfide | 0.9808 | 0.9697<br>0.9308 | 1.0377 | 0.9838 | 0.9086 | Ave | | 0.9686 | | | 0.1000 | 4.7 | | 15.0 | | | |
| Methyl acetate | 0.4809 | 0.5188<br>0.4684 | 0.4808 | 0.4575 | 0.4381 | Ave | | 0.4741 | | | 0.1000 | 5.7 | | 15.0 | | | |
| Acetonitrile | 0.0310 | 0.0321<br>0.0301 | 0.0312 | 0.0301 | 0.0285 | Ave | | 0.0305 | | | | 4.1 | | 15.0 | | | |

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1 Analy Batch No.: 94870

SDG No.:

Instrument ID: HP5973C GC Column: ZB-624 (30) ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/09/2012 20:11 Calibration End Date: 12/09/2012 23:07 Calibration ID: 11394

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Methylene Chloride | 0.3607 | 0.4771<br>0.3515 | 0.3780 | 0.3729 | 0.3505 | Ave | | 0.3821 | | | 0.1000 | 12.0 | | 15.0 | | | |
| Methyl tert-butyl ether | 1.1051 | 1.1783<br>1.1082 | 1.1541 | 1.0512 | 1.0552 | Ave | | 1.1087 | | | 0.1000 | 4.6 | | 15.0 | | | |
| trans-1,2-Dichloroethene | 0.3361 | 0.4045<br>0.3321 | 0.3775 | 0.3513 | 0.3235 | Ave | | 0.3542 | | | 0.1000 | 8.8 | | 15.0 | | | |
| Acrylonitrile | 0.1700 | 0.1680<br>0.1667 | 0.1682 | 0.1665 | 0.1559 | Ave | | 0.1659 | | | | 3.1 | | 15.0 | | | |
| Vinyl acetate | 0.8831 | 0.8831<br>0.8419 | 0.8695 | 0.8560 | 0.8369 | Ave | | 0.8618 | | | | 2.3 | | 15.0 | | | |
| 1,1-Dichloroethane | 0.6833 | 0.7823<br>0.6674 | 0.7420 | 0.7042 | 0.6598 | Ave | | 0.7065 | | | 0.2000 | 6.7 | | 15.0 | | | |
| 2-Butanone (MEK) | 0.2378 | 0.2499<br>0.2328 | 0.2354 | 0.2305 | 0.2155 | Ave | | 0.2337 | | | 0.0500 | 4.8 | | 15.0 | | | |
| 2,2-Dichloropropane | 0.4126 | 0.5391<br>0.4040 | 0.4640 | 0.4385 | 0.4118 | Ave | | 0.4450 | | | | 11.0 | | 15.0 | | | |
| cis-1,2-Dichloroethene | 0.3771 | 0.4953<br>0.3740 | 0.4091 | 0.3927 | 0.3666 | Ave | | 0.4025 | | | 0.1000 | 12.0 | | 15.0 | | | |
| Chlorobromomethane | 0.1916 | 0.2247<br>0.1891 | 0.2011 | 0.1975 | 0.1864 | Ave | | 0.1984 | | | | 7.0 | | 15.0 | | | |
| Tetrahydrofuran | 0.1478 | 0.1547<br>0.1422 | 0.1501 | 0.1441 | 0.1373 | Ave | | 0.1460 | | | | 4.2 | | 15.0 | | | |
| Chloroform | 0.6550 | 0.7777<br>0.6404 | 0.7005 | 0.6742 | 0.6338 | Ave | | 0.6803 | | | 0.2000 | 7.9 | | 15.0 | | | |
| 1,1,1-Trichloroethane | 0.5218 | 0.5521<br>0.5299 | 0.5527 | 0.5186 | 0.5058 | Ave | | 0.5301 | | | 0.1000 | 3.6 | | 15.0 | | | |
| Cyclohexane | 0.5120 | 0.5454<br>0.4886 | 0.5563 | 0.5081 | 0.4689 | Ave | | 0.5132 | | | 0.1000 | 6.5 | | 15.0 | | | |
| 1,1-Dichloropropene | 0.4973 | 0.5704<br>0.4899 | 0.5401 | 0.5209 | 0.4737 | Ave | | 0.5154 | | | | 6.9 | | 15.0 | | | |
| Carbon tetrachloride | 0.4980 | 0.5277<br>0.4918 | 0.5063 | 0.4931 | 0.4609 | Ave | | 0.4963 | | | 0.1000 | 4.4 | | 15.0 | | | |
| Benzene | 1.3731 | 1.6296<br>1.3407 | 1.5136 | 1.4547 | 1.3280 | Ave | | 1.4399 | | | 0.5000 | 8.1 | | 15.0 | | | |
| 1,2-Dichloroethane | 0.6409 | 0.7645<br>0.6270 | 0.6768 | 0.6495 | 0.6171 | Ave | | 0.6626 | | | 0.1000 | 8.1 | | 15.0 | | | |
| Trichloroethene | 0.3656 | 0.4512<br>0.3587 | 0.4084 | 0.3831 | 0.3518 | Ave | | 0.3865 | | | 0.2000 | 9.7 | | 15.0 | | | |
| Methylcyclohexane | 0.5429 | 0.5697<br>0.4878 | 0.5901 | 0.5489 | 0.4970 | Ave | | 0.5394 | | | 0.1000 | 7.4 | | 15.0 | | | |

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1 Analy Batch No.: 94870

SDG No.:

Instrument ID: HP5973C GC Column: ZB-624 (30) ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/09/2012 20:11 Calibration End Date: 12/09/2012 23:07 Calibration ID: 11394

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,2-Dichloropropane | 0.3880 | 0.4333<br>0.3796 | 0.4150 | 0.4018 | 0.3752 | Ave | | 0.3988 | | | 0.1000 | 5.6 | | 15.0 | | | |
| Dibromomethane | 0.2691 | 0.2984<br>0.2645 | 0.2755 | 0.2707 | 0.2559 | Ave | | 0.2724 | | | | 5.3 | | 15.0 | | | |
| Dichlorobromomethane | 0.5338 | 0.5747<br>0.5257 | 0.5324 | 0.5224 | 0.5105 | Ave | | 0.5332 | | | 0.1000 | 4.1 | | 15.0 | | | |
| 2-Chloroethyl vinyl ether | 0.3047 | 0.3051<br>0.2938 | 0.3028 | 0.3011 | 0.2868 | Ave | | 0.2991 | | | | 2.4 | | 15.0 | | | |
| trans-1,3-Dichloropropene | 1.4385<br>1.1499 | 1.2454<br>1.1338 | 1.2200 | 1.1572 | 1.0985 | Ave | | 1.2062 | | | 0.1000 | 9.5 | | 15.0 | | | |
| 4-Methyl-2-pentanone (MIBK) | 0.9059 | 0.9766<br>0.8636 | 0.9322 | 0.9131 | 0.8577 | Ave | | 0.9082 | | | 0.0500 | 4.9 | | 15.0 | | | |
| Toluene | 1.6214 | 2.0595<br>1.5801 | 1.8309 | 1.7267 | 1.5770 | Ave | | 1.7326 | | | 0.4000 | 11.0 | | 15.0 | | | |
| Ethyl methacrylate | 1.0003 | 0.9875<br>0.9861 | 1.0015 | 0.9703 | 0.9405 | Ave | | 0.9810 | | | | 2.3 | | 15.0 | | | |
| cis-1,3-Dichloropropene | 0.7407<br>0.6092 | 0.6377<br>0.6109 | 0.6081 | 0.6044 | 0.5803 | Ave | | 0.6273 | | | 0.2000 | 8.4 | | 15.0 | | | |
| 1,1,2-Trichloroethane | 0.5197 | 0.5898<br>0.5119 | 0.5493 | 0.5475 | 0.5065 | Ave | | 0.5374 | | | 0.1000 | 5.8 | | 15.0 | | | |
| 2-Hexanone | 0.6666 | 0.6741<br>0.6407 | 0.6775 | 0.6626 | 0.6270 | Ave | | 0.6581 | | | 0.0500 | 3.0 | | 15.0 | | | |
| Tetrachloroethene | 0.6436 | 0.8074<br>0.6338 | 0.7435 | 0.6862 | 0.6368 | Ave | | 0.6919 | | | 0.1000 | 10.0 | | 15.0 | | | |
| 1,3-Dichloropropane | 1.1164 | 1.3251<br>1.0852 | 1.2101 | 1.1742 | 1.0893 | Ave | | 1.1667 | | | | 7.9 | | 15.0 | | | |
| Chlorodibromomethane | 0.7386 | 0.7576<br>0.7402 | 0.7385 | 0.7367 | 0.7016 | Ave | | 0.7356 | | | 0.1000 | 2.5 | | 15.0 | | | |
| Ethylene Dibromide | 0.6696 | 0.7526<br>0.6555 | 0.7033 | 0.6750 | 0.6419 | Ave | | 0.6830 | | | 0.1000 | 5.8 | | 15.0 | | | |
| Chlorobenzene | 1.7832 | 2.0724<br>1.7318 | 1.9957 | 1.8680 | 1.7487 | Ave | | 1.8666 | | | 0.5000 | 7.5 | | 15.0 | | | |
| Ethylbenzene | 3.1356 | 3.9112<br>3.0310 | 3.4978 | 3.3301 | 3.0707 | Ave | | 3.3294 | | | 0.1000 | 10.0 | | 15.0 | | | |
| 1,1,1,2-Tetrachloroethane | 0.6304 | 0.7013<br>0.6240 | 0.6807 | 0.6414 | 0.6221 | Ave | | 0.6500 | | | | 5.1 | | 15.0 | | | |
| m-Xylene & p-Xylene | 1.1790 | 1.3537<br>1.1430 | 1.3173 | 1.2379 | 1.1563 | Ave | | 1.2312 | | | 0.1000 | 7.1 | | 15.0 | | | |
| o-Xylene | 1.1587 | 1.3044<br>1.1206 | 1.2711 | 1.2152 | 1.1360 | Ave | | 1.2010 | | | 0.3000 | 6.3 | | 15.0 | | | |

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1 Analy Batch No.: 94870

SDG No.:

Instrument ID: HP5973C GC Column: ZB-624 (30) ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/09/2012 20:11 Calibration End Date: 12/09/2012 23:07 Calibration ID: 11394

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Styrene | 2.0002 | 2.2856<br>1.9704 | 2.1220 | 2.0452 | 1.9430 | Ave | | 2.0611 | | | 0.3000 | 6.1 | | 15.0 | | | |
| Isopropylbenzene | 3.4957 | 3.9804<br>3.4581 | 3.8688 | 3.7057 | 3.4140 | Ave | | 3.6538 | | | 0.1000 | 6.4 | | 15.0 | | | |
| Bromoform | 0.5036 | 0.4822<br>0.5102 | 0.4819 | 0.4781 | 0.4662 | Ave | | 0.4870 | | | 0.1000 | 3.4 | | 15.0 | | | |
| 1,1,2,2-Tetrachloroethane | 1.0447 | 1.0926<br>1.0375 | 1.0916 | 1.0502 | 0.9830 | Ave | | 1.0499 | | | 0.3000 | 3.9 | | 15.0 | | | |
| trans-1,4-Dichloro-2-butene | 0.3312 | 0.2673<br>0.3343 | 0.2920 | 0.3083 | 0.3006 | Ave | | 0.3056 | | | | 8.2 | | 15.0 | | | |
| N-Propylbenzene | 4.3420 | 4.9060<br>4.3127 | 4.7991 | 4.5918 | 4.2761 | Ave | | 4.5380 | | | | 5.9 | | 15.0 | | | |
| 1,2,3-Trichloropropane | 0.3288 | 0.3559<br>0.3254 | 0.3565 | 0.3236 | 0.3096 | Ave | | 0.3333 | | | | 5.7 | | 15.0 | | | |
| Bromobenzene | 0.8389 | 0.9895<br>0.8380 | 0.9280 | 0.8908 | 0.8238 | Ave | | 0.8848 | | | | 7.3 | | 15.0 | | | |
| 1,3,5-Trimethylbenzene | 2.9533 | 3.5020<br>2.9798 | 3.2778 | 3.1134 | 2.9233 | Ave | | 3.1249 | | | | 7.3 | | 15.0 | | | |
| 2-Chlorotoluene | 0.7801 | 0.8778<br>0.7810 | 0.8751 | 0.8532 | 0.7709 | Ave | | 0.8230 | | | | 6.2 | | 15.0 | | | |
| 4-Chlorotoluene | 0.8240 | 0.9637<br>0.8138 | 0.9162 | 0.8756 | 0.8097 | Ave | | 0.8672 | | | | 7.3 | | 15.0 | | | |
| tert-Butylbenzene | 0.5738 | 0.6437<br>0.5775 | 0.6409 | 0.6039 | 0.5656 | Ave | | 0.6009 | | | | 5.8 | | 15.0 | | | |
| 1,2,4-Trimethylbenzene | 3.0047 | 3.4738<br>2.9951 | 3.3446 | 3.1862 | 2.9330 | Ave | | 3.1562 | | | | 6.9 | | 15.0 | | | |
| sec-Butylbenzene | 3.6890 | 4.2119<br>3.6896 | 4.0384 | 3.9220 | 3.6102 | Ave | | 3.8602 | | | | 6.1 | | 15.0 | | | |
| 4-Isopropyltoluene | 2.9227 | 3.4019<br>2.9257 | 3.2490 | 3.0591 | 2.8505 | Ave | | 3.0681 | | | | 7.0 | | 15.0 | | | |
| 1,3-Dichlorobenzene | 1.5838 | 1.8920<br>1.5852 | 1.7845 | 1.6828 | 1.5612 | Ave | | 1.6816 | | | 0.6000 | 7.9 | | 15.0 | | | |
| 1,4-Dichlorobenzene | 1.6254 | 1.9769<br>1.6215 | 1.8031 | 1.7303 | 1.5877 | Ave | | 1.7241 | | | 0.5000 | 8.6 | | 15.0 | | | |
| n-Butylbenzene | 2.9372 | 3.4381<br>2.9581 | 3.1828 | 3.0556 | 2.8647 | Ave | | 3.0727 | | | | 6.8 | | 15.0 | | | |
| 1,2-Dichlorobenzene | 1.5536 | 1.7240<br>1.5525 | 1.7196 | 1.6325 | 1.5141 | Ave | | 1.6161 | | | 0.4000 | 5.6 | | 15.0 | | | |
| 1,2-Dibromo-3-Chloropropane | 0.2424 | 0.3411<br>0.2449 | 0.2667 | 0.2440 | 0.2262 | Lin1 | 0.0917 | 0.2400 | | | 0.0500 | | | | 0.9990 | | 0.9900 |

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1 Analy Batch No.: 94870

SDG No.:

Instrument ID: HP5973C GC Column: ZB-624 (30) ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/09/2012 20:11 Calibration End Date: 12/09/2012 23:07 Calibration ID: 11394

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,2,4-Trichlorobenzene | 1.1778 | 1.2790<br>1.1958 | 1.2742 | 1.2052 | 1.1482 | Ave | | 1.2134 | | | 0.2000 | 4.3 | | 15.0 | | | |
| Hexachlorobutadiene | 0.6064<br>0.5284 | 0.5728<br>0.5353 | 0.5651 | 0.5593 | 0.5058 | Ave | | 0.5533 | | | | 6.0 | | 15.0 | | | |
| Naphthalene | 3.3554 | 3.5085<br>3.3672 | 3.2718 | 3.3436 | 3.1402 | Ave | | 3.3311 | | | | 3.6 | | 15.0 | | | |
| 1,2,3-Trichlorobenzene | 1.1223 | 1.2891<br>1.1241 | 1.1978 | 1.1743 | 1.0877 | Ave | | 1.1659 | | | | 6.2 | | 15.0 | | | |
| 1,2-Dichloroethane-d4 (Surr) | 0.2303 | 0.2131<br>0.2351 | 0.2797 | 0.2411 | 0.1970 | Ave | | 0.2327 | | | | 12.0 | | 15.0 | | | |
| Toluene-d8 (Surr) | 2.1089 | 2.2073<br>2.1211 | 2.6417 | 2.2958 | 1.9347 | Ave | | 2.2183 | | | | 11.0 | | 15.0 | | | |
| 4-Bromofluorobenzene (Surr) | 0.6536 | 0.7974<br>0.6834 | 0.8016 | 0.6950 | 0.5831 | Ave | | 0.7024 | | | | 12.0 | | 15.0 | | | |

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1 Analy Batch No.: 94870

SDG No.:

Instrument ID: HP5973C GC Column: ZB-624 (30) ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/09/2012 20:11 Calibration End Date: 12/09/2012 23:07 Calibration ID: 11394

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | IC 480-94870/3 | C25045.D |
| Level 2 | IC 480-94870/5 | C25047.D |
| Level 3 | IC 480-94870/6 | C25048.D |
| Level 4 | IC 480-94870/7 | C25049.D |
| Level 5 | ICIS 480-94870/8 | C25050.D |
| Level 6 | IC 480-94870/9 | C25051.D |
| Level 7 | IC 480-94870/10 | C25052.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Dichlorodifluoromethane | DFB | Ave | 409255 | 5515<br>812821 | 40311 | 78133 | 195709 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| Chloromethane | DFB | Ave | 473138 | 13634<br>942903 | 55174 | 103765 | 242144 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| Vinyl chloride | DFB | Lin1 | 5798<br>478556 | 10680<br>937313 | 52194 | 100535 | 232718 | 0.400<br>50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| Bromomethane | DFB | Ave | 319947 | 8651<br>630708 | 35628 | 67703 | 162542 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| Chloroethane | DFB | Ave | 317253 | 5918<br>631042 | 35204 | 66994 | 160045 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| Trichlorofluoromethane | DFB | Ave | 673526 | 10779<br>1340184 | 71464 | 140865 | 327924 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| Acrolein | DFB | Ave | 1612878 | 29555<br>3163294 | 152727 | 306309 | 769272 | 1000 | 20.0<br>2000 | 100 | 200 | 500 |
| 1,1,2-Trichloro-1,2,2-trifluoroetha ne | DFB | Lin1 | 336384 | 3184<br>507030 | 31389 | 67668 | 162409 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| 1,1-Dichloroethene | DFB | Ave | 320616 | 8285<br>720777 | 33811 | 66979 | 163693 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| Acetone | DFB | Ave | 1000713 | 21595<br>1926843 | 99248 | 200712 | 482959 | 250 | 5.00<br>500 | 25.0 | 50.0 | 125 |
| Iodomethane | DFB | Ave | 500611 | 8569<br>957172 | 51094 | 100552 | 247937 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| Carbon disulfide | DFB | Ave | 1270116 | 25955<br>2385424 | 135546 | 262644 | 617867 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| Methyl acetate | DFB | Ave | 622698 | 13886<br>1200399 | 62800 | 122140 | 297888 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| Acetonitrile | DFB | Ave | 1604127 | 34382<br>3080610 | 163252 | 321943 | 774692 | 2000 | 40.0<br>4000 | 200 | 400 | 1000 |
| Methylene Chloride | DFB | Ave | 467038 | 12770<br>900864 | 49379 | 99549 | 238372 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |

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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1 Analy Batch No.: 94870

SDG No.:

Instrument ID: HP5973C GC Column: ZB-624 (30) ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/09/2012 20:11 Calibration End Date: 12/09/2012 23:07 Calibration ID: 11394

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Methyl tert-butyl ether | DFB | Ave | 1430991 | 31540<br>2840053 | 150761 | 280627 | 717523 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| trans-1,2-Dichloroethene | DFB | Ave | 435249 | 10828<br>851216 | 49308 | 93786 | 220008 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| Acrylonitrile | DFB | Ave | 1100843 | 22483<br>2136258 | 109882 | 222288 | 529941 | 250 | 5.00<br>500 | 25.0 | 50.0 | 125 |
| Vinyl acetate | DFB | Ave | 5718036 | 118186<br>10787504 | 567910 | 1142618 | 2845676 | 250 | 5.00<br>500 | 25.0 | 50.0 | 125 |
| 1,1-Dichloroethane | DFB | Ave | 884820 | 20940<br>1710413 | 96925 | 187987 | 448699 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| 2-Butanone (MEK) | DFB | Ave | 1539815 | 33447<br>2983487 | 153761 | 307724 | 732831 | 250 | 5.00<br>500 | 25.0 | 50.0 | 125 |
| 2,2-Dichloropropane | DFB | Ave | 534283 | 14429<br>1035360 | 60617 | 117054 | 280002 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| cis-1,2-Dichloroethene | DFB | Ave | 488354 | 13258<br>958612 | 53440 | 104833 | 249269 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| Chlorobromomethane | DFB | Ave | 248100 | 6014<br>484581 | 26266 | 52714 | 126750 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| Tetrahydrofuran | DFB | Ave | 957095 | 20709<br>1822203 | 98050 | 192284 | 466673 | 250 | 5.00<br>500 | 25.0 | 50.0 | 125 |
| Chloroform | DFB | Ave | 848134 | 20817<br>1641179 | 91505 | 179997 | 431011 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| 1,1,1-Trichloroethane | DFB | Ave | 675667 | 14779<br>1357938 | 72197 | 138448 | 343948 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| Cyclohexane | DFB | Ave | 663006 | 14598<br>1252273 | 72669 | 135655 | 318826 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| 1,1-Dichloropropene | DFB | Ave | 644004 | 15268<br>1255488 | 70554 | 139067 | 322127 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| Carbon tetrachloride | DFB | Ave | 644880 | 14126<br>1260452 | 66137 | 131652 | 313402 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| Benzene | DFB | Ave | 1778107 | 43619<br>3435994 | 197713 | 388346 | 903031 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| 1,2-Dichloroethane | DFB | Ave | 829922 | 20462<br>1606882 | 88402 | 173392 | 419659 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| Trichloroethene | DFB | Ave | 473426 | 12076<br>919380 | 53342 | 102272 | 239202 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| Methylcyclohexane | DFB | Ave | 703064 | 15248<br>1250167 | 77087 | 146543 | 337941 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| 1,2-Dichloropropane | DFB | Ave | 502489 | 11599<br>972774 | 54210 | 107269 | 255113 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| Dibromomethane | DFB | Ave | 348529 | 7988<br>677878 | 35991 | 72257 | 174030 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |

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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1 Analy Batch No.: 94870

SDG No.:

Instrument ID: HP5973C GC Column: ZB-624 (30) ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/09/2012 20:11 Calibration End Date: 12/09/2012 23:07 Calibration ID: 11394

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Dichlorobromomethane | DFB | Ave | 691248 | 15383<br>1347168 | 69544 | 139471 | 347133 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| 2-Chloroethyl vinyl ether | DFB | Ave | 1972924 | 40836<br>3765209 | 197800 | 401880 | 975219 | 250 | 5.00<br>500 | 25.0 | 50.0 | 125 |
| trans-1,3-Dichloropropene | CBZ | Ave | 8344<br>817123 | 18037<br>1600868 | 85302 | 166675 | 404623 | 0.400<br>50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| 4-Methyl-2-pentanone (MIBK) | CBZ | Ave | 3218693 | 70720<br>6096588 | 325911 | 657545 | 1579704 | 250 | 5.00<br>500 | 25.0 | 50.0 | 125 |
| Toluene | CBZ | Ave | 1152137 | 29828<br>2231039 | 128020 | 248691 | 580890 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| Ethyl methacrylate | CBZ | Ave | 710796 | 14302<br>1392396 | 70023 | 139751 | 346424 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| cis-1,3-Dichloropropene | DFB | Ave | 7933<br>788819 | 17068<br>1565533 | 79433 | 161349 | 394599 | 0.400<br>50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| 1,1,2-Trichloroethane | CBZ | Ave | 369279 | 8542<br>722789 | 38410 | 78848 | 186567 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| 2-Hexanone | CBZ | Ave | 2368233 | 48812<br>4522865 | 236847 | 477174 | 1154810 | 250 | 5.00<br>500 | 25.0 | 50.0 | 125 |
| Tetrachloroethene | CBZ | Ave | 457328 | 11693<br>894950 | 51985 | 98837 | 234550 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| 1,3-Dichloropropane | CBZ | Ave | 793290 | 19191<br>1532227 | 84609 | 169116 | 401223 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| Chlorodibromomethane | CBZ | Ave | 524832 | 10973<br>1045129 | 51637 | 106107 | 258443 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| Ethylene Dibromide | CBZ | Ave | 475773 | 10900<br>925475 | 49174 | 97216 | 236456 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| Chlorobenzene | CBZ | Ave | 1267089 | 30015<br>2445251 | 139540 | 269037 | 644134 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| Ethylbenzene | CBZ | Ave | 2228099 | 56646<br>4279605 | 244564 | 479623 | 1131081 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| 1,1,1,2-Tetrachloroethane | CBZ | Ave | 447977 | 10157<br>881021 | 47598 | 92384 | 229133 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| m-Xylene & p-Xylene | CBZ | Ave | 1675580 | 39210<br>3227700 | 184214 | 356568 | 851837 | 100 | 2.00<br>200 | 10.0 | 20.0 | 50.0 |
| o-Xylene | CBZ | Ave | 823339 | 18892<br>1582283 | 88875 | 175022 | 418450 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| Styrene | CBZ | Ave | 1421327 | 33102<br>2782187 | 148367 | 294568 | 715684 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| Isopropylbenzene | DCB | Ave | 2178941 | 50480<br>4214544 | 236557 | 464698 | 1098279 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| Bromoform | CBZ | Ave | 357874 | 6983<br>720329 | 33697 | 68856 | 171704 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |

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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1 Analy Batch No.: 94870

SDG No.:

Instrument ID: HP5973C GC Column: ZB-624 (30) ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/09/2012 20:11 Calibration End Date: 12/09/2012 23:07 Calibration ID: 11394

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| 1,1,2,2-Tetrachloroethane | DCB | Ave | 651205 | 13856<br>1264418 | 66744 | 131701 | 316235 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| trans-1,4-Dichloro-2-butene | DCB | Ave | 1032130 | 16950<br>2037360 | 89283 | 193337 | 483570 | 250 | 5.00<br>500 | 25.0 | 50.0 | 125 |
| N-Propylbenzene | DCB | Ave | 2706396 | 62219<br>5256198 | 293439 | 575819 | 1375613 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| 1,2,3-Trichloropropane | DCB | Ave | 204927 | 4514<br>396536 | 21797 | 40576 | 99606 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| Bromobenzene | DCB | Ave | 522890 | 12549<br>1021320 | 56741 | 111705 | 265017 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| 1,3,5-Trimethylbenzene | DCB | Ave | 1840824 | 44413<br>3631623 | 200421 | 390424 | 940433 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| 2-Chlorotoluene | DCB | Ave | 486243 | 11133<br>951899 | 53507 | 106993 | 247984 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| 4-Chlorotoluene | DCB | Ave | 513636 | 12222<br>991886 | 56020 | 109801 | 260489 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| tert-Butylbenzene | DCB | Ave | 357641 | 8163<br>703825 | 39189 | 75724 | 181952 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| 1,2,4-Trimethylbenzene | DCB | Ave | 1872855 | 44055<br>3650268 | 204502 | 399551 | 943533 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| sec-Butylbenzene | DCB | Ave | 2299428 | 53416<br>4496730 | 246928 | 491824 | 1161410 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| 4-Isopropyltoluene | DCB | Ave | 1821736 | 43143<br>3565733 | 198661 | 383621 | 916985 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| 1,3-Dichlorobenzene | DCB | Ave | 987216 | 23995<br>1932001 | 109113 | 211031 | 502238 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| 1,4-Dichlorobenzene | DCB | Ave | 1013112 | 25071<br>1976212 | 110247 | 216981 | 510749 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| n-Butylbenzene | DCB | Ave | 1830779 | 43603<br>3605162 | 194608 | 383173 | 921560 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| 1,2-Dichlorobenzene | DCB | Ave | 968378 | 21864<br>1892163 | 105146 | 204722 | 487082 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| 1,2-Dibromo-3-Chloropropane | DCB | Lin1 | 151114 | 4326<br>298472 | 16308 | 30593 | 72768 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| 1,2,4-Trichlorobenzene | DCB | Ave | 734128 | 16221<br>1457338 | 77912 | 151133 | 369385 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| Hexachlorobutadiene | DCB | Ave | 3063<br>329362 | 7264<br>652409 | 34554 | 70138 | 162722 | 0.400<br>50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| Naphthalene | DCB | Ave | 2091477 | 44495<br>4103855 | 200054 | 419296 | 1010183 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| 1,2,3-Trichlorobenzene | DCB | Ave | 699537 | 16349<br>1370025 | 73239 | 147256 | 349909 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |

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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1 Analy Batch No.: 94870

SDG No.:

Instrument ID: HP5973C GC Column: ZB-624 (30) ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/09/2012 20:11 Calibration End Date: 12/09/2012 23:07 Calibration ID: 11394

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| 1,2-Dichloroethane-d4 (Surr) | DFB | Ave | 298248 | 5703<br>602426 | 36541 | 64355 | 133959 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| Toluene-d8 (Surr) | CBZ | Ave | 1498563 | 31969<br>2994969 | 184706 | 330655 | 712632 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |
| 4-Bromofluorobenzene (Surr) | CBZ | Ave | 464442 | 11549<br>964950 | 56050 | 100096 | 214783 | 50.0 | 1.00<br>100 | 5.00 | 10.0 | 25.0 |

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25045.D | | |
| Lims ID: | IC 0.4 | Client ID: | |
| Inject. Date: | 09-Dec-2012 20:11:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 1 |
| Sample ID: | IC 0.4 | | |
| Misc. Info.: | 480-0017365-003 | | |
| Operator: | NMD | Instrument ID: | HP5973C |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 23 |
| Lims Batch ID: | 94870 | Lims Sample ID: | 3 |
| Sublist: | chrom-C-8260*sub1 | | |
| Detector: | MS SCAN | | |

| | | | |
|---|---|---|---|
| Method: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C-8260.m | | |
| Last Update: | 10-Dec-2012 11:16:54 | Calib Date: | 10-Dec-2012 03:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25063.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK028 | | |

First Level Reviewer: HillL Date: 10-Dec-2012 10:52:57

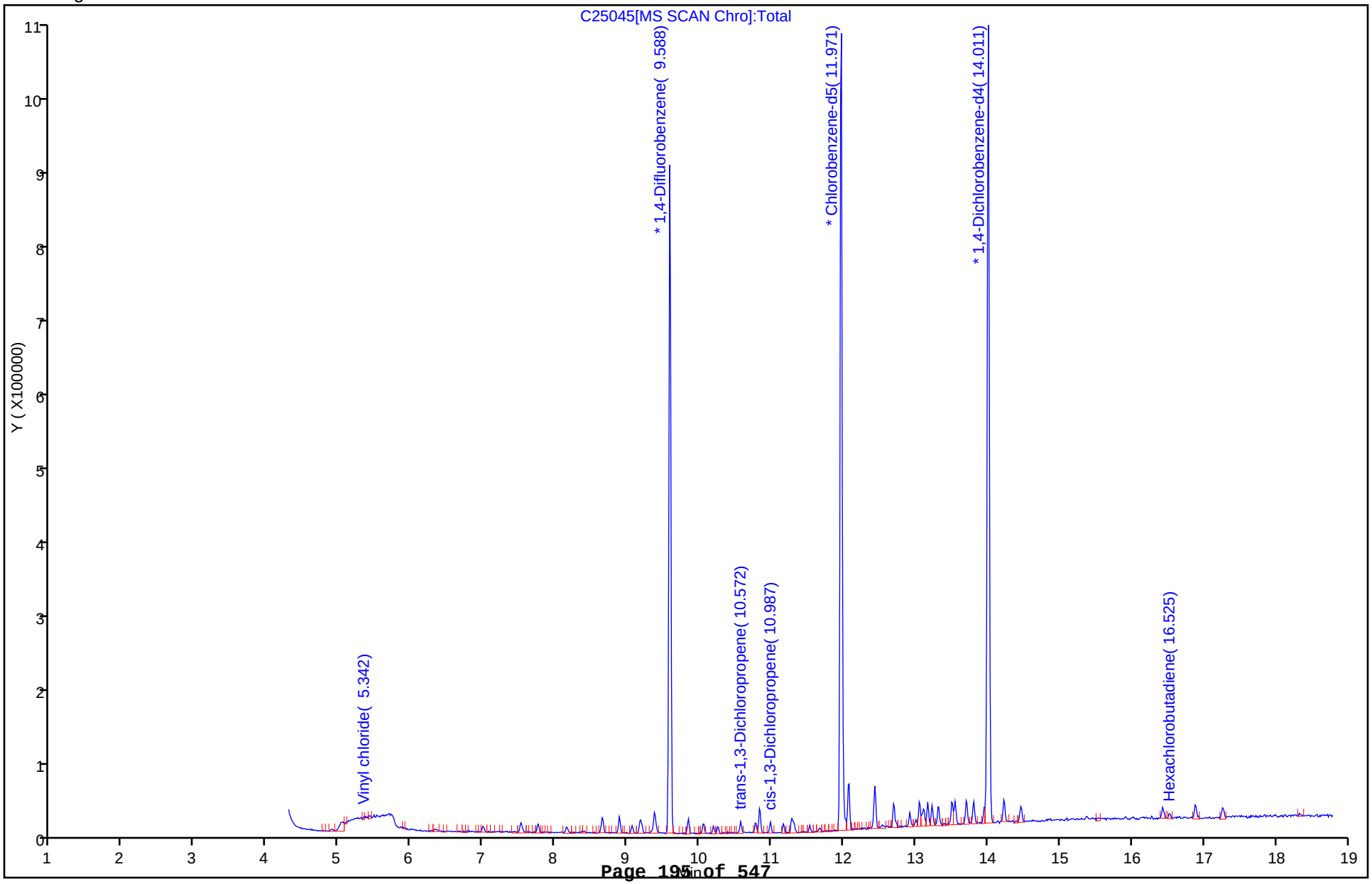
| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 9.588 | 9.588 | 0.0 | 96 | 669421 | 25.0 | |
| * 2 Chlorobenzene-d5 | 82 | 11.971 | 11.971 | 0.0 | 89 | 362529 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.011 | 14.011 | 0.0 | 97 | 315712 | 25.0 | |
| 13 Vinyl chloride | 62 | 5.224 | 5.224 | 0.0 | 1 | 5798 | 0.3943 | |
| 77 trans-1,3-Dichloropropene | 75 | 10.572 | 10.572 | 0.0 | 56 | 8344 | 0.4770 | |
| 72 cis-1,3-Dichloropropene | 75 | 10.987 | 10.987 | 0.0 | 43 | 7933 | 0.4723 | |
| 120 Hexachlorobutadiene | 225 | 16.537 | 16.525 | 0.012 | 1 | 3063 | 0.4384 | |
| S 126 1,3-Dichloropropene, Total | 1 | | | | 0 | | 0.9493 | |

Report Date: 10-Dec-2012 11:16:54 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25045.D | | |
| Injection Date: | 09-Dec-2012 20:11:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973C |
| Lims Batch ID: | 94870 | Lims Sample ID: | 3 |
| Operator ID: | NMD | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25047.D | | |
| Lims ID: | IC | Client ID: | |
| Inject. Date: | 09-Dec-2012 21:01:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 2 |
| Sample ID: | IC | | |
| Misc. Info.: | 480-0017365-005 | | |
| Operator: | NMD | Instrument ID: | HP5973C |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 25 |
| Lims Batch ID: | 94870 | Lims Sample ID: | 5 |
| Sublist: | chrom-C-8260*sub1 | | |
| Detector: | MS SCAN | | |

| | | | |
|---|---|---|---|
| Method: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C-8260.m | | |
| Last Update: | 10-Dec-2012 11:23:41 | Calib Date: | 10-Dec-2012 03:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25063.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK028 | | |

First Level Reviewer: HillL Date: 10-Dec-2012 11:18:06

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 9.588 | 9.588 | 0.0 | 96 | 669172 | 25.0 | |
| * 2 Chlorobenzene-d5 | 82 | 11.971 | 11.959 | 0.012 | 87 | 362075 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.011 | 14.011 | 0.0 | 97 | 317054 | 25.0 | |
| $ 4 1,2-Dichloroethane-d4 (Surr) | 67 | 9.339 | 9.339 | 0.001 | 0 | 5703 | 0.9156 | |
| $ 5 Toluene-d8 (Surr) | 98 | 10.785 | 10.785 | 0.0 | 57 | 31969 | 1.00 | |
| $ 6 4-Bromofluorobenzene (Surr) | 174 | 12.920 | 12.920 | 0.0 | 57 | 11549 | 1.14 | |
| 10 Dichlorodifluoromethane | 85 | 4.607 | 4.595 | 0.012 | 1 | 5515 | 0.7153 | |
| 12 Chloromethane | 50 | 5.034 | 5.034 | 0.0 | 58 | 13634 | 1.27 | |
| 13 Vinyl chloride | 62 | 5.236 | 5.224 | 0.012 | 23 | 10680 | 0.9196 | |
| 14 Bromomethane | 94 | 5.864 | 5.876 | -0.012 | 54 | 8651 | 1.23 | |
| 15 Chloroethane | 64 | 6.018 | 6.006 | 0.012 | 22 | 5918 | 0.9036 | |
| 17 Trichlorofluoromethane | 101 | 6.327 | 6.338 | -0.012 | 44 | 10779 | 0.8058 | |
| 20 Acrolein | 56 | 6.908 | 6.908 | 0.0 | 78 | 29555 | 18.8 | |
| 21 1,1,2-Trichloro-1,2,2-trifluoroe | 101 | 6.919 | 6.919 | 0.0 | 1 | 3184 | 0.8562 | |
| 22 1,1-Dichloroethene | 96 | 7.002 | 7.002 | 0.0 | 52 | 8285 | 1.16 | |
| 23 Acetone | 43 | 7.074 | 7.062 | 0.012 | 92 | 21595 | 5.32 | |
| 25 Iodomethane | 142 | 7.240 | 7.240 | 0.0 | 52 | 8569 | 0.8681 | |
| 26 Carbon disulfide | 76 | 7.323 | 7.323 | 0.0 | 95 | 25955 | 1.00 | |
| 27 Methyl acetate | 43 | 7.358 | 7.346 | 0.012 | 94 | 13886 | 1.09 | |
| 29 Acetonitrile | 40 | 7.417 | 7.406 | 0.011 | 100 | 34382 | 42.1 | |
| 30 Methylene Chloride | 84 | 7.524 | 7.524 | 0.0 | 81 | 12770 | 1.25 | |
| 32 Methyl tert-butyl ether | 73 | 7.690 | 7.690 | 0.0 | 84 | 31540 | 1.06 | |
| 34 trans-1,2-Dichloroethene | 96 | 7.761 | 7.761 | 0.0 | 76 | 10828 | 1.14 | |
| 33 Acrylonitrile | 53 | 7.785 | 7.773 | 0.012 | 90 | 22483 | 5.06 | |
| 37 Vinyl acetate | 43 | 8.105 | 8.093 | 0.012 | 97 | 118186 | 5.12 | |
| 39 1,1-Dichloroethane | 63 | 8.165 | 8.153 | 0.012 | 40 | 20940 | 1.11 | |
| 43 2-Butanone (MEK) | 43 | 8.627 | 8.615 | 0.012 | 97 | 33447 | 5.35 | |
| 44 2,2-Dichloropropane | 77 | 8.651 | 8.651 | 0.0 | 67 | 14429 | 1.21 | |
| 45 cis-1,2-Dichloroethene | 96 | 8.663 | 8.651 | 0.012 | 76 | 13258 | 1.23 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| 49 Tetrahydrofuran | 42 | 8.900 | 8.888 | 0.012 | 86 | 20709 | 5.30 | |
| 48 Chlorobromomethane | 128 | 8.888 | 8.888 | 0.0 | 77 | 6014 | 1.13 | |
| 50 Chloroform | 83 | 8.900 | 8.888 | 0.012 | 72 | 20817 | 1.14 | |
| 51 1,1,1-Trichloroethane | 97 | 9.066 | 9.066 | 0.0 | 68 | 14779 | 1.04 | |
| 52 Cyclohexane | 56 | 9.101 | 9.101 | 0.0 | 65 | 14598 | 1.06 | |
| 54 1,1-Dichloropropene | 75 | 9.173 | 9.172 | 0.001 | 62 | 15268 | 1.11 | |
| 55 Carbon tetrachloride | 117 | 9.196 | 9.196 | 0.0 | 63 | 14126 | 1.06 | |
| 57 Benzene | 78 | 9.374 | 9.374 | 0.0 | 93 | 43619 | 1.13 | |
| 58 1,2-Dichloroethane | 62 | 9.398 | 9.398 | 0.0 | 59 | 20462 | 1.15 | |
| 62 Trichloroethene | 95 | 9.848 | 9.848 | 0.0 | 76 | 12076 | 1.17 | |
| 64 Methylcyclohexane | 83 | 9.979 | 9.979 | 0.0 | 74 | 15248 | 1.06 | |
| 65 1,2-Dichloropropane | 63 | 10.062 | 10.062 | 0.0 | 65 | 11599 | 1.09 | |
| 67 Dibromomethane | 93 | 10.192 | 10.192 | 0.0 | 71 | 7988 | 1.10 | |
| 68 Dichlorobromomethane | 83 | 10.264 | 10.252 | 0.012 | 74 | 15383 | 1.08 | |
| 69 2-Chloroethyl vinyl ether | 63 | 10.370 | 10.370 | 0.0 | 85 | 40836 | 5.10 | |
| 77 trans-1,3-Dichloropropene | 75 | 10.572 | 10.572 | 0.0 | 70 | 18037 | 1.03 | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | 10.607 | 10.607 | 0.0 | 95 | 70720 | 5.38 | |
| 74 Toluene | 92 | 10.833 | 10.833 | 0.0 | 83 | 29828 | 1.19 | |
| 75 Ethyl methacrylate | 69 | 10.904 | 10.904 | 0.0 | 62 | 14302 | 1.01 | |
| 72 cis-1,3-Dichloropropene | 75 | 10.987 | 10.987 | 0.0 | 52 | 17068 | 1.02 | |
| 79 1,1,2-Trichloroethane | 83 | 11.165 | 11.165 | 0.0 | 57 | 8542 | 1.10 | |
| 80 2-Hexanone | 43 | 11.248 | 11.248 | 0.0 | 94 | 48812 | 5.12 | |
| 81 Tetrachloroethene | 166 | 11.283 | 11.283 | 0.0 | 83 | 11693 | 1.17 | |
| 82 1,3-Dichloropropane | 76 | 11.307 | 11.307 | 0.0 | 80 | 19191 | 1.14 | |
| 83 Chlorodibromomethane | 129 | 11.532 | 11.532 | 0.0 | 49 | 10973 | 1.03 | |
| 84 Ethylene Dibromide | 107 | 11.663 | 11.663 | 0.0 | 62 | 10900 | 1.10 | |
| 88 Ethylbenzene | 91 | 11.995 | 11.995 | 0.0 | 87 | 56646 | 1.17 | |
| 87 Chlorobenzene | 112 | 11.995 | 11.995 | 0.0 | 64 | 30015 | 1.11 | |
| 89 1,1,1,2-Tetrachloroethane | 131 | 12.030 | 12.030 | 0.0 | 58 | 10157 | 1.08 | |
| 90 m-Xylene & p-Xylene | 106 | 12.078 | 12.078 | 0.0 | 98 | 39210 | 2.20 | |
| 91 o-Xylene | 106 | 12.434 | 12.434 | 0.0 | 88 | 18892 | 1.09 | |
| 92 Styrene | 104 | 12.445 | 12.445 | 0.0 | 81 | 33102 | 1.11 | |
| 94 Isopropylbenzene | 105 | 12.695 | 12.694 | 0.001 | 85 | 50480 | 1.09 | |
| 95 Bromoform | 173 | 12.730 | 12.730 | 0.0 | 46 | 6983 | 0.99 | |
| 97 1,1,2,2-Tetrachloroethane | 83 | 13.003 | 13.003 | 0.0 | 61 | 13856 | 1.04 | |
| 98 trans-1,4-Dichloro-2-butene | 53 | 13.027 | 13.027 | 0.001 | 74 | 16950 | 4.37 | |
| 99 N-Propylbenzene | 91 | 13.050 | 13.050 | 0.0 | 92 | 62219 | 1.08 | |
| 100 1,2,3-Trichloropropane | 110 | 13.086 | 13.086 | 0.0 | 42 | 4514 | 1.07 | |
| 101 Bromobenzene | 156 | 13.121 | 13.121 | 0.0 | 57 | 12549 | 1.12 | |
| 102 1,3,5-Trimethylbenzene | 105 | 13.169 | 13.169 | 0.0 | 77 | 44413 | 1.12 | |
| 103 2-Chlorotoluene | 126 | 13.228 | 13.228 | 0.0 | 87 | 11133 | 1.07 | |
| 105 4-Chlorotoluene | 126 | 13.323 | 13.311 | 0.012 | 85 | 12222 | 1.11 | |
| 106 tert-Butylbenzene | 134 | 13.513 | 13.513 | 0.0 | 79 | 8163 | 1.07 | |
| 107 1,2,4-Trimethylbenzene | 105 | 13.548 | 13.548 | 0.0 | 56 | 44055 | 1.10 | |
| 109 sec-Butylbenzene | 105 | 13.702 | 13.702 | 0.0 | 74 | 53416 | 1.09 | |
| 110 4-Isopropyltoluene | 119 | 13.809 | 13.809 | 0.0 | 82 | 43143 | 1.11 | |
| 111 1,3-Dichlorobenzene | 146 | 13.952 | 13.951 | 0.001 | 74 | 23995 | 1.13 | |
| 113 1,4-Dichlorobenzene | 146 | 14.035 | 14.034 | 0.001 | 70 | 25071 | 1.15 | |
| 115 n-Butylbenzene | 91 | 14.224 | 14.224 | 0.0 | 86 | 43603 | 1.12 | |
| 116 1,2-Dichlorobenzene | 146 | 14.461 | 14.461 | 0.0 | 75 | 21864 | 1.07 | |
| 117 1,2-Dibromo-3-Chloropropane | 75 | 15.375 | 15.374 | 0.001 | 1 | 4326 | 1.04 | |
| 119 1,2,4-Trichlorobenzene | 180 | 16.430 | 16.430 | 0.0 | 46 | 16221 | 1.05 | |

Report Date: 10-Dec-2012 11:23:41 Chrom Revision: 2.0 22-Oct-2012 16:30:48
Data File: \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25047.D

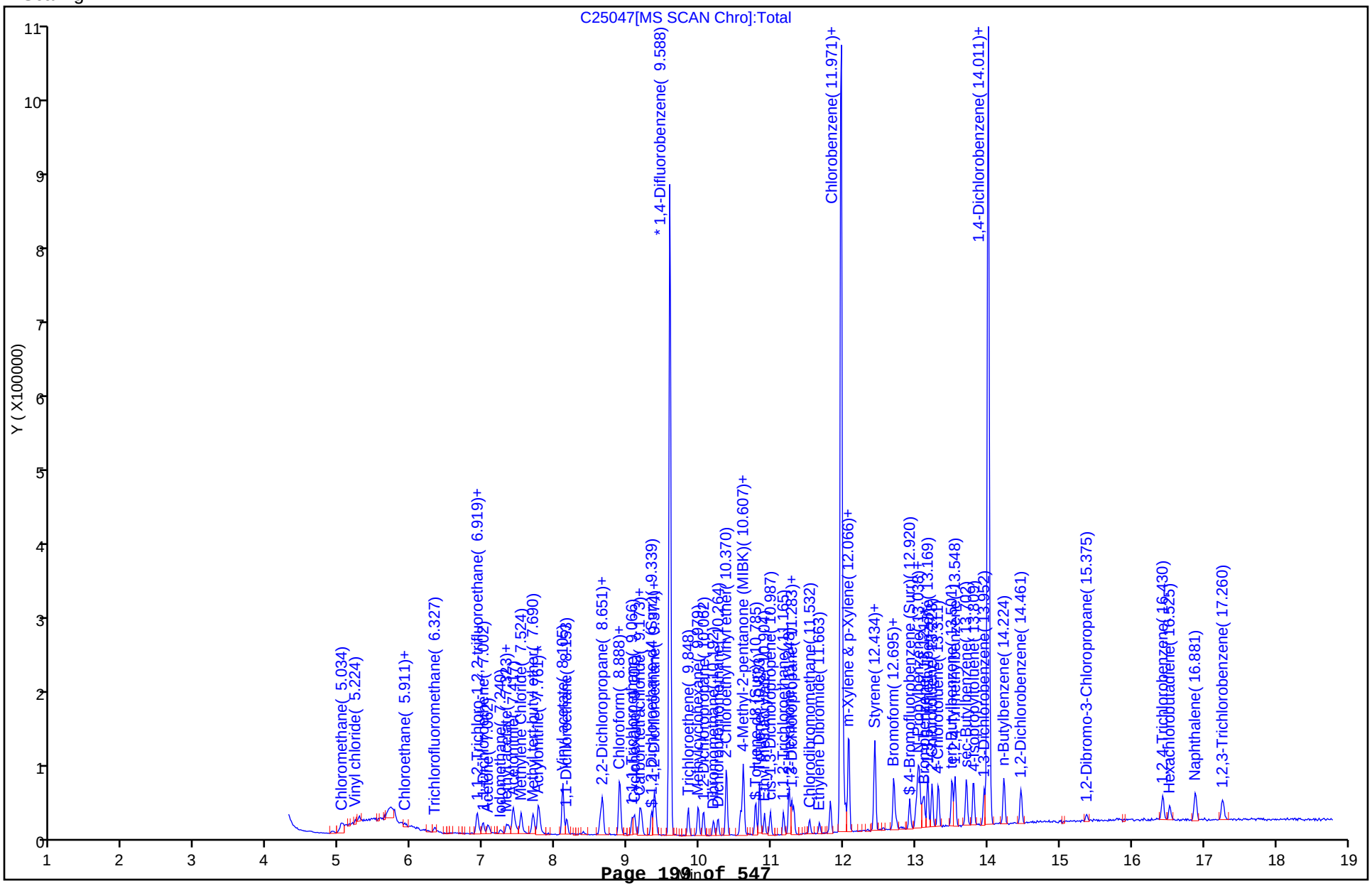
| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| 120 Hexachlorobutadiene | 225 | 16.537 | 16.525 | 0.012 | 25 | 7264 | 1.04 | |
| 121 Naphthalene | 128 | 16.881 | 16.881 | 0.0 | 75 | 44495 | 1.05 | |
| 122 1,2,3-Trichlorobenzene | 180 | 17.260 | 17.260 | 0.0 | 45 | 16349 | 1.11 | |
| S 125 1,2-Dichloroethene, Total | 1 | | | | 0 | | 2.37 | |
| S 126 1,3-Dichloropropene, Total | 1 | | | | 0 | | 2.05 | |
| S 123 Total BTEX | 1 | | | | 0 | | 6.78 | |
| S 124 Xylenes, Total | 1 | | | | 0 | | 3.29 | |

Report Date: 10-Dec-2012 11:23:41 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25047.D | | |
| Injection Date: | 09-Dec-2012 21:01:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973C |
| Lims Batch ID: | 94870 | Lims Sample ID: | 5 |
| Operator ID: | NMD | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:



Report Date: 10-Dec-2012 11:22:21 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25048.D | | |
| Lims ID: | IC 2 | Client ID: | |
| Inject. Date: | 09-Dec-2012 21:26:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 3 |
| Sample ID: | IC 2 | | |
| Misc. Info.: | 480-0017365-006 | | |
| Operator: | NMD | Instrument ID: | HP5973C |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 26 |
| Lims Batch ID: | 94870 | Lims Sample ID: | 6 |
| Sublist: | chrom-C-8260*sub1 | | |
| Detector: | MS SCAN | | |

| | | | |
|---|---|---|---|
| Method: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C-8260.m | | |
| Last Update: | 10-Dec-2012 11:22:20 | Calib Date: | 10-Dec-2012 03:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25063.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK028 | | |

First Level Reviewer: HillL Date: 10-Dec-2012 10:54:40

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 9.587 | 9.588 | -0.001 | 96 | 653131 | 25.0 | |
| * 2 Chlorobenzene-d5 | 82 | 11.971 | 11.959 | 0.012 | 87 | 349600 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.011 | 14.011 | 0.0 | 95 | 305722 | 25.0 | |
| $ 4 1,2-Dichloroethane-d4 (Surr) | 67 | 9.338 | 9.339 | 0.0 | 0 | 36541 | 6.01 | |
| $ 5 Toluene-d8 (Surr) | 98 | 10.785 | 10.785 | 0.0 | 93 | 184706 | 5.95 | |
| $ 6 4-Bromofluorobenzene (Surr) | 174 | 12.920 | 12.920 | 0.0 | 81 | 56050 | 5.71 | |
| 10 Dichlorodifluoromethane | 85 | 4.583 | 4.595 | -0.012 | 42 | 40311 | 5.36 | |
| 12 Chloromethane | 50 | 5.022 | 5.034 | -0.012 | 86 | 55174 | 5.26 | |
| 13 Vinyl chloride | 62 | 5.235 | 5.224 | 0.011 | 77 | 52194 | 5.32 | |
| 14 Bromomethane | 94 | 5.876 | 5.876 | 0.0 | 75 | 35628 | 5.17 | |
| 15 Chloroethane | 64 | 5.994 | 6.006 | -0.012 | 64 | 35204 | 5.51 | |
| 17 Trichlorofluoromethane | 101 | 6.326 | 6.338 | -0.012 | 74 | 71464 | 5.47 | |
| 20 Acrolein | 56 | 6.907 | 6.908 | -0.001 | 98 | 152727 | 99.8 | |
| 21 1,1,2-Trichloro-1,2,2-trifluoroe | 101 | 6.919 | 6.919 | 0.0 | 43 | 31389 | 5.27 | |
| 22 1,1-Dichloroethene | 96 | 6.990 | 7.002 | -0.012 | 80 | 33811 | 4.85 | |
| 23 Acetone | 43 | 7.062 | 7.062 | 0.0 | 95 | 99248 | 25.0 | |
| 25 Iodomethane | 142 | 7.240 | 7.240 | 0.0 | 91 | 51094 | 5.30 | |
| 26 Carbon disulfide | 76 | 7.323 | 7.323 | -0.001 | 98 | 135546 | 5.36 | |
| 27 Methyl acetate | 43 | 7.346 | 7.346 | 0.0 | 97 | 62800 | 5.07 | |
| 29 Acetonitrile | 40 | 7.406 | 7.406 | 0.0 | 100 | 163252 | 204.9 | |
| 30 Methylene Chloride | 84 | 7.524 | 7.524 | 0.0 | 89 | 49379 | 4.95 | |
| 32 Methyl tert-butyl ether | 73 | 7.690 | 7.690 | 0.0 | 91 | 150761 | 5.21 | |
| 34 trans-1,2-Dichloroethene | 96 | 7.761 | 7.761 | 0.0 | 90 | 49308 | 5.33 | |
| 33 Acrylonitrile | 53 | 7.773 | 7.773 | 0.0 | 98 | 109882 | 25.4 | |
| 37 Vinyl acetate | 43 | 8.093 | 8.093 | 0.0 | 98 | 567910 | 25.2 | |
| 39 1,1-Dichloroethane | 63 | 8.153 | 8.153 | 0.0 | 81 | 96925 | 5.25 | |
| 43 2-Butanone (MEK) | 43 | 8.615 | 8.615 | 0.0 | 99 | 153761 | 25.2 | |
| 44 2,2-Dichloropropane | 77 | 8.651 | 8.651 | 0.0 | 85 | 60617 | 5.21 | |
| 45 cis-1,2-Dichloroethene | 96 | 8.651 | 8.651 | 0.0 | 74 | 53440 | 5.08 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| 49 Tetrahydrofuran | 42 | 8.888 | 8.888 | 0.0 | 87 | 98050 | 25.7 | |
| 48 Chlorobromomethane | 128 | 8.888 | 8.888 | 0.0 | 85 | 26266 | 5.07 | |
| 50 Chloroform | 83 | 8.888 | 8.888 | 0.0 | 78 | 91505 | 5.15 | |
| 51 1,1,1-Trichloroethane | 97 | 9.066 | 9.066 | 0.0 | 87 | 72197 | 5.21 | |
| 52 Cyclohexane | 56 | 9.101 | 9.101 | 0.0 | 92 | 72669 | 5.42 | |
| 54 1,1-Dichloropropene | 75 | 9.172 | 9.172 | 0.0 | 88 | 70554 | 5.24 | |
| 55 Carbon tetrachloride | 117 | 9.196 | 9.196 | 0.0 | 76 | 66137 | 5.10 | |
| 57 Benzene | 78 | 9.374 | 9.374 | 0.0 | 95 | 197713 | 5.26 | |
| 58 1,2-Dichloroethane | 62 | 9.398 | 9.398 | 0.0 | 90 | 88402 | 5.11 | |
| 62 Trichloroethene | 95 | 9.848 | 9.848 | 0.0 | 89 | 53342 | 5.28 | |
| 64 Methylcyclohexane | 83 | 9.979 | 9.979 | 0.0 | 94 | 77087 | 5.47 | |
| 65 1,2-Dichloropropane | 63 | 10.050 | 10.062 | -0.012 | 89 | 54210 | 5.20 | |
| 67 Dibromomethane | 93 | 10.192 | 10.192 | 0.0 | 83 | 35991 | 5.06 | |
| 68 Dichlorobromomethane | 83 | 10.252 | 10.252 | 0.0 | 86 | 69544 | 4.99 | |
| 69 2-Chloroethyl vinyl ether | 63 | 10.370 | 10.370 | 0.0 | 92 | 197800 | 25.3 | |
| 77 trans-1,3-Dichloropropene | 75 | 10.572 | 10.572 | 0.0 | 93 | 85302 | 5.06 | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | 10.607 | 10.607 | 0.0 | 98 | 325911 | 25.7 | |
| 74 Toluene | 92 | 10.833 | 10.833 | 0.0 | 95 | 128020 | 5.28 | |
| 75 Ethyl methacrylate | 69 | 10.904 | 10.904 | 0.0 | 86 | 70023 | 5.10 | |
| 72 cis-1,3-Dichloropropene | 75 | 10.987 | 10.987 | 0.0 | 79 | 79433 | 4.85 | |
| 79 1,1,2-Trichloroethane | 83 | 11.165 | 11.165 | 0.0 | 88 | 38410 | 5.11 | |
| 80 2-Hexanone | 43 | 11.248 | 11.248 | 0.0 | 96 | 236847 | 25.7 | |
| 81 Tetrachloroethene | 166 | 11.283 | 11.283 | 0.0 | 86 | 51985 | 5.37 | |
| 82 1,3-Dichloropropane | 76 | 11.307 | 11.307 | 0.0 | 91 | 84609 | 5.19 | |
| 83 Chlorodibromomethane | 129 | 11.532 | 11.532 | 0.0 | 81 | 51637 | 5.02 | |
| 84 Ethylene Dibromide | 107 | 11.663 | 11.663 | 0.0 | 89 | 49174 | 5.15 | |
| 88 Ethylbenzene | 91 | 11.995 | 11.995 | 0.0 | 93 | 244564 | 5.25 | |
| 87 Chlorobenzene | 112 | 11.995 | 11.995 | 0.0 | 75 | 139540 | 5.35 | |
| 89 1,1,1,2-Tetrachloroethane | 131 | 12.030 | 12.030 | 0.0 | 81 | 47598 | 5.24 | |
| 90 m-Xylene & p-Xylene | 106 | 12.078 | 12.078 | 0.0 | 99 | 184214 | 10.7 | |
| 91 o-Xylene | 106 | 12.434 | 12.434 | 0.0 | 92 | 88875 | 5.29 | |
| 92 Styrene | 104 | 12.445 | 12.445 | 0.0 | 90 | 148367 | 5.15 | |
| 94 Isopropylbenzene | 105 | 12.694 | 12.694 | 0.0 | 95 | 236557 | 5.29 | |
| 95 Bromoform | 173 | 12.730 | 12.730 | 0.0 | 82 | 33697 | 4.95 | |
| 97 1,1,2,2-Tetrachloroethane | 83 | 13.003 | 13.003 | 0.0 | 86 | 66744 | 5.20 | |
| 98 trans-1,4-Dichloro-2-butene | 53 | 13.026 | 13.027 | 0.0 | 87 | 89283 | 23.9 | |
| 99 N-Propylbenzene | 91 | 13.050 | 13.050 | 0.0 | 98 | 293439 | 5.29 | |
| 100 1,2,3-Trichloropropane | 110 | 13.086 | 13.086 | 0.0 | 78 | 21797 | 5.35 | |
| 101 Bromobenzene | 156 | 13.121 | 13.121 | 0.0 | 79 | 56741 | 5.24 | |
| 102 1,3,5-Trimethylbenzene | 105 | 13.169 | 13.169 | 0.0 | 90 | 200421 | 5.24 | |
| 103 2-Chlorotoluene | 126 | 13.228 | 13.228 | 0.0 | 93 | 53507 | 5.32 | |
| 105 4-Chlorotoluene | 126 | 13.311 | 13.311 | 0.0 | 99 | 56020 | 5.28 | |
| 106 tert-Butylbenzene | 134 | 13.513 | 13.513 | 0.0 | 89 | 39189 | 5.33 | |
| 107 1,2,4-Trimethylbenzene | 105 | 13.548 | 13.548 | 0.0 | 95 | 204502 | 5.30 | |
| 109 sec-Butylbenzene | 105 | 13.702 | 13.702 | 0.0 | 94 | 246928 | 5.23 | |
| 110 4-Isopropyltoluene | 119 | 13.809 | 13.809 | 0.0 | 95 | 198661 | 5.29 | |
| 111 1,3-Dichlorobenzene | 146 | 13.951 | 13.951 | 0.0 | 92 | 109113 | 5.31 | |
| 113 1,4-Dichlorobenzene | 146 | 14.034 | 14.034 | 0.0 | 87 | 110247 | 5.23 | |
| 115 n-Butylbenzene | 91 | 14.224 | 14.224 | 0.0 | 97 | 194608 | 5.18 | |
| 116 1,2-Dichlorobenzene | 146 | 14.461 | 14.461 | 0.0 | 91 | 105146 | 5.32 | |
| 117 1,2-Dibromo-3-Chloropropane | 75 | 15.374 | 15.374 | 0.0 | 46 | 16308 | 5.18 | |
| 119 1,2,4-Trichlorobenzene | 180 | 16.430 | 16.430 | 0.0 | 89 | 77912 | 5.25 | |

Report Date: 10-Dec-2012 11:22:21 Chrom Revision: 2.0 22-Oct-2012 16:30:48
Data File: \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25048.D

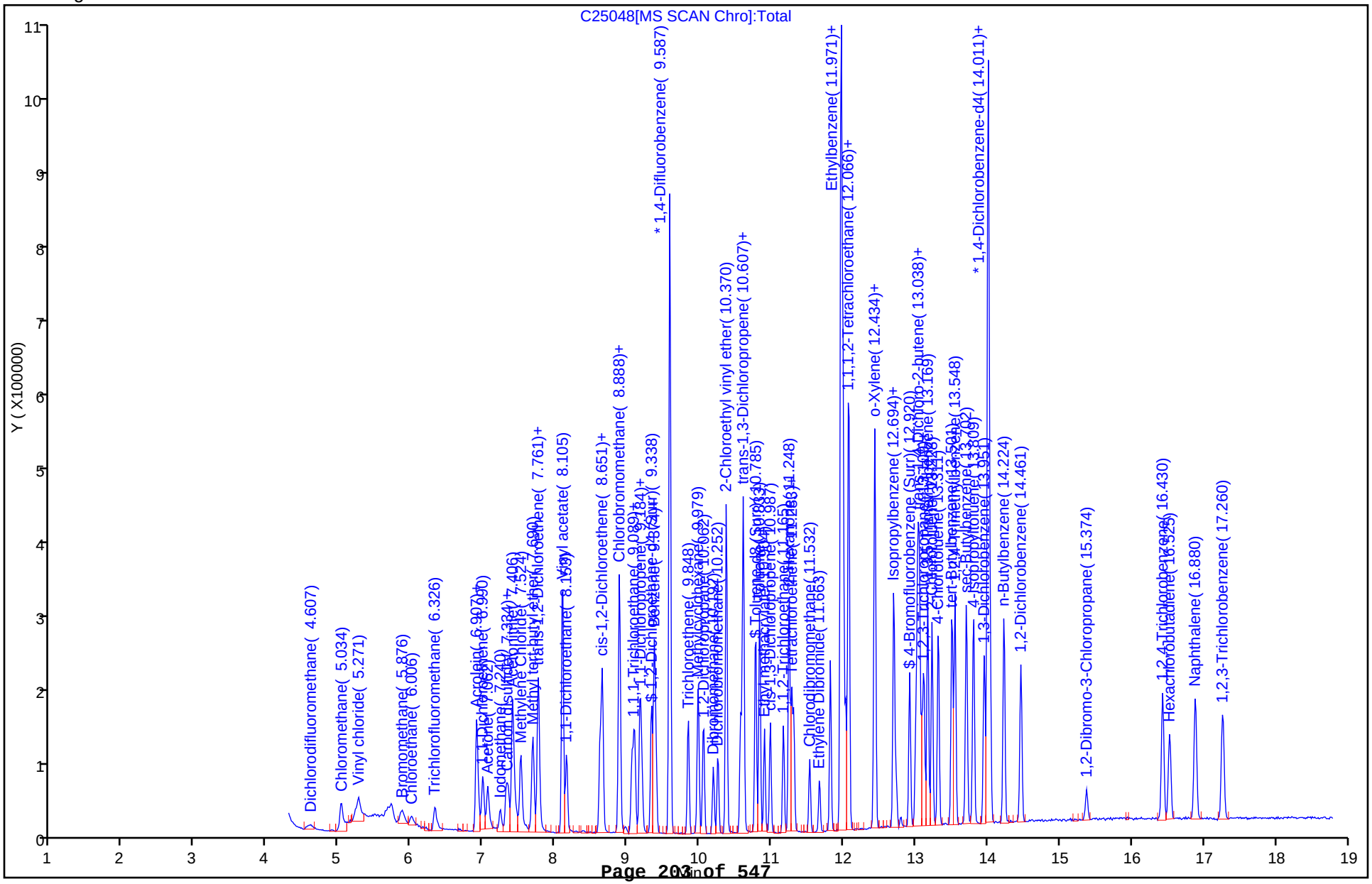
| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| 120 Hexachlorobutadiene | 225 | 16.525 | 16.525 | 0.0 | 80 | 34554 | 5.11 | |
| 121 Naphthalene | 128 | 16.880 | 16.881 | -0.001 | 96 | 200054 | 4.91 | |
| 122 1,2,3-Trichlorobenzene | 180 | 17.272 | 17.260 | 0.012 | 88 | 73239 | 5.14 | |
| S 125 1,2-Dichloroethene, Total | 1 | | | | 0 | | 10.4 | |
| S 126 1,3-Dichloropropene, Total | 1 | | | | 0 | | 9.90 | |
| S 123 Total BTEX | 1 | | | | 0 | | 31.8 | |
| S 124 Xylenes, Total | 1 | | | | 0 | | 16.0 | |

Report Date: 10-Dec-2012 11:22:21 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25048.D | | |
| Injection Date: | 09-Dec-2012 21:26:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973C |
| Lims Batch ID: | 94870 | Lims Sample ID: | 6 |
| Operator ID: | NMD | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:



Report Date: 10-Dec-2012 11:22:04 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25049.D | | |
| Lims ID: | IC 3 | Client ID: | |
| Inject. Date: | 09-Dec-2012 21:52:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 4 |
| Sample ID: | IC 3 | | |
| Misc. Info.: | 480-0017365-007 | | |
| Operator: | NMD | Instrument ID: | HP5973C |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 27 |
| Lims Batch ID: | 94870 | Lims Sample ID: | 7 |
| Sublist: | chrom-C-8260*sub1 | | |
| Detector: | MS SCAN | | |
| Method: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C-8260.m | | |
| Last Update: | 10-Dec-2012 11:22:04 | Calib Date: | 10-Dec-2012 03:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25063.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK028 | | |

First Level Reviewer: HillL Date: 10-Dec-2012 10:55:28

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 9.588 | 9.588 | 0.0 | 96 | 667412 | 25.0 | |
| * 2 Chlorobenzene-d5 | 82 | 11.959 | 11.959 | 0.0 | 91 | 360067 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.011 | 14.011 | 0.0 | 90 | 313505 | 25.0 | |
| $ 4 1,2-Dichloroethane-d4 (Surr) | 67 | 9.339 | 9.339 | 0.0 | 0 | 64355 | 10.4 | |
| $ 5 Toluene-d8 (Surr) | 98 | 10.785 | 10.785 | 0.0 | 93 | 330655 | 10.3 | |
| $ 6 4-Bromofluorobenzene (Surr) | 174 | 12.920 | 12.920 | 0.0 | 82 | 100096 | 9.89 | |
| 10 Dichlorodifluoromethane | 85 | 4.595 | 4.595 | 0.0 | 73 | 78133 | 10.2 | |
| 12 Chloromethane | 50 | 5.034 | 5.034 | 0.0 | 88 | 103765 | 9.68 | |
| 13 Vinyl chloride | 62 | 5.224 | 5.224 | 0.0 | 75 | 100535 | 10.2 | |
| 14 Bromomethane | 94 | 5.876 | 5.876 | 0.0 | 84 | 67703 | 9.62 | |
| 15 Chloroethane | 64 | 6.006 | 6.006 | 0.0 | 81 | 66994 | 10.3 | |
| 17 Trichlorofluoromethane | 101 | 6.338 | 6.338 | 0.0 | 81 | 140865 | 10.6 | |
| 20 Acrolein | 56 | 6.908 | 6.908 | 0.0 | 98 | 306309 | 195.8 | |
| 21 1,1,2-Trichloro-1,2,2-trifluoroe | 101 | 6.919 | 6.919 | 0.0 | 64 | 67668 | 10.9 | |
| 22 1,1-Dichloroethene | 96 | 7.002 | 7.002 | 0.0 | 80 | 66979 | 9.38 | |
| 23 Acetone | 43 | 7.062 | 7.062 | 0.0 | 98 | 200712 | 49.5 | |
| 25 Iodomethane | 142 | 7.240 | 7.240 | 0.0 | 95 | 100552 | 10.2 | |
| 26 Carbon disulfide | 76 | 7.323 | 7.323 | 0.0 | 99 | 262644 | 10.2 | |
| 27 Methyl acetate | 43 | 7.346 | 7.346 | 0.0 | 98 | 122140 | 9.65 | |
| 29 Acetonitrile | 40 | 7.406 | 7.406 | 0.0 | 99 | 321943 | 395.4 | |
| 30 Methylene Chloride | 84 | 7.524 | 7.524 | 0.0 | 89 | 99549 | 9.76 | |
| 32 Methyl tert-butyl ether | 73 | 7.690 | 7.690 | 0.0 | 92 | 280627 | 9.48 | |
| 34 trans-1,2-Dichloroethene | 96 | 7.761 | 7.761 | 0.0 | 90 | 93786 | 9.92 | |
| 33 Acrylonitrile | 53 | 7.773 | 7.773 | 0.0 | 97 | 222288 | 50.2 | |
| 37 Vinyl acetate | 43 | 8.093 | 8.093 | 0.0 | 97 | 1142618 | 49.7 | |
| 39 1,1-Dichloroethane | 63 | 8.153 | 8.153 | 0.0 | 86 | 187987 | 9.97 | |
| 43 2-Butanone (MEK) | 43 | 8.615 | 8.615 | 0.0 | 99 | 307724 | 49.3 | |
| 44 2,2-Dichloropropane | 77 | 8.651 | 8.651 | 0.0 | 86 | 117054 | 9.85 | |
| 45 cis-1,2-Dichloroethene | 96 | 8.651 | 8.651 | 0.0 | 75 | 104833 | 9.76 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| 49 Tetrahydrofuran | 42 | 8.888 | 8.888 | 0.0 | 88 | 192284 | 49.3 | |
| 48 Chlorobromomethane | 128 | 8.888 | 8.888 | 0.0 | 88 | 52714 | 9.95 | |
| 50 Chloroform | 83 | 8.888 | 8.888 | 0.0 | 82 | 179997 | 9.91 | |
| 51 1,1,1-Trichloroethane | 97 | 9.066 | 9.066 | 0.0 | 90 | 138448 | 9.78 | |
| 52 Cyclohexane | 56 | 9.101 | 9.101 | 0.0 | 93 | 135655 | 9.90 | |
| 54 1,1-Dichloropropene | 75 | 9.172 | 9.172 | 0.0 | 89 | 139067 | 10.1 | |
| 55 Carbon tetrachloride | 117 | 9.196 | 9.196 | 0.0 | 78 | 131652 | 9.94 | |
| 57 Benzene | 78 | 9.374 | 9.374 | 0.0 | 94 | 388346 | 10.1 | |
| 58 1,2-Dichloroethane | 62 | 9.398 | 9.398 | 0.0 | 84 | 173392 | 9.80 | |
| 62 Trichloroethene | 95 | 9.848 | 9.848 | 0.0 | 91 | 102272 | 9.91 | |
| 64 Methylcyclohexane | 83 | 9.979 | 9.979 | 0.0 | 95 | 146543 | 10.2 | |
| 65 1,2-Dichloropropane | 63 | 10.062 | 10.062 | 0.0 | 88 | 107269 | 10.1 | |
| 67 Dibromomethane | 93 | 10.192 | 10.192 | 0.0 | 85 | 72257 | 9.94 | |
| 68 Dichlorobromomethane | 83 | 10.252 | 10.252 | 0.0 | 89 | 139471 | 9.80 | |
| 69 2-Chloroethyl vinyl ether | 63 | 10.370 | 10.370 | 0.0 | 92 | 401880 | 50.3 | |
| 77 trans-1,3-Dichloropropene | 75 | 10.572 | 10.572 | 0.0 | 94 | 166675 | 9.59 | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | 10.607 | 10.607 | 0.0 | 97 | 657545 | 50.3 | |
| 74 Toluene | 92 | 10.833 | 10.833 | 0.0 | 96 | 248691 | 9.97 | |
| 75 Ethyl methacrylate | 69 | 10.904 | 10.904 | 0.0 | 89 | 139751 | 9.89 | |
| 72 cis-1,3-Dichloropropene | 75 | 10.987 | 10.987 | 0.0 | 85 | 161349 | 9.63 | |
| 79 1,1,2-Trichloroethane | 83 | 11.165 | 11.165 | 0.0 | 89 | 78848 | 10.2 | |
| 80 2-Hexanone | 43 | 11.248 | 11.248 | 0.0 | 96 | 477174 | 50.3 | |
| 81 Tetrachloroethene | 166 | 11.283 | 11.283 | 0.0 | 88 | 98837 | 9.92 | |
| 82 1,3-Dichloropropane | 76 | 11.307 | 11.307 | 0.0 | 93 | 169116 | 10.1 | |
| 83 Chlorodibromomethane | 129 | 11.532 | 11.532 | 0.0 | 86 | 106107 | 10.0 | |
| 84 Ethylene Dibromide | 107 | 11.663 | 11.663 | 0.0 | 97 | 97216 | 9.88 | |
| 88 Ethylbenzene | 91 | 11.995 | 11.995 | 0.0 | 93 | 479623 | 10.0 | |
| 87 Chlorobenzene | 112 | 11.995 | 11.995 | 0.0 | 76 | 269037 | 10.0 | |
| 89 1,1,1,2-Tetrachloroethane | 131 | 12.030 | 12.030 | 0.0 | 84 | 92384 | 9.87 | |
| 90 m-Xylene & p-Xylene | 106 | 12.078 | 12.078 | 0.0 | 99 | 356568 | 20.1 | |
| 91 o-Xylene | 106 | 12.434 | 12.434 | 0.0 | 92 | 175022 | 10.1 | |
| 92 Styrene | 104 | 12.445 | 12.445 | 0.0 | 91 | 294568 | 9.92 | |
| 94 Isopropylbenzene | 105 | 12.694 | 12.694 | 0.0 | 97 | 464698 | 10.1 | |
| 95 Bromoform | 173 | 12.730 | 12.730 | 0.0 | 92 | 68856 | 9.82 | |
| 97 1,1,2,2-Tetrachloroethane | 83 | 13.003 | 13.003 | 0.0 | 88 | 131701 | 10.0 | |
| 98 trans-1,4-Dichloro-2-butene | 53 | 13.027 | 13.027 | 0.0 | 88 | 193337 | 50.4 | |
| 99 N-Propylbenzene | 91 | 13.050 | 13.050 | 0.0 | 98 | 575819 | 10.1 | |
| 100 1,2,3-Trichloropropane | 110 | 13.086 | 13.086 | 0.0 | 58 | 40576 | 9.71 | |
| 101 Bromobenzene | 156 | 13.121 | 13.121 | 0.0 | 77 | 111705 | 10.1 | |
| 102 1,3,5-Trimethylbenzene | 105 | 13.169 | 13.169 | 0.0 | 92 | 390424 | 9.96 | |
| 103 2-Chlorotoluene | 126 | 13.228 | 13.228 | 0.0 | 94 | 106993 | 10.4 | |
| 105 4-Chlorotoluene | 126 | 13.311 | 13.311 | 0.0 | 100 | 109801 | 10.1 | |
| 106 tert-Butylbenzene | 134 | 13.513 | 13.513 | 0.0 | 91 | 75724 | 10.0 | |
| 107 1,2,4-Trimethylbenzene | 105 | 13.548 | 13.548 | 0.0 | 71 | 399551 | 10.1 | |
| 109 sec-Butylbenzene | 105 | 13.702 | 13.702 | 0.0 | 95 | 491824 | 10.2 | |
| 110 4-Isopropyltoluene | 119 | 13.809 | 13.809 | 0.0 | 95 | 383621 | 9.97 | |
| 111 1,3-Dichlorobenzene | 146 | 13.951 | 13.951 | 0.0 | 93 | 211031 | 10.0 | |
| 113 1,4-Dichlorobenzene | 146 | 14.034 | 14.034 | 0.0 | 81 | 216981 | 10.0 | |
| 115 n-Butylbenzene | 91 | 14.224 | 14.224 | 0.0 | 97 | 383173 | 9.94 | |
| 116 1,2-Dichlorobenzene | 146 | 14.461 | 14.461 | 0.0 | 92 | 204722 | 10.1 | |
| 117 1,2-Dibromo-3-Chloropropane | 75 | 15.374 | 15.374 | 0.0 | 57 | 30593 | 9.78 | |
| 119 1,2,4-Trichlorobenzene | 180 | 16.430 | 16.430 | 0.0 | 91 | 151133 | 9.93 | |

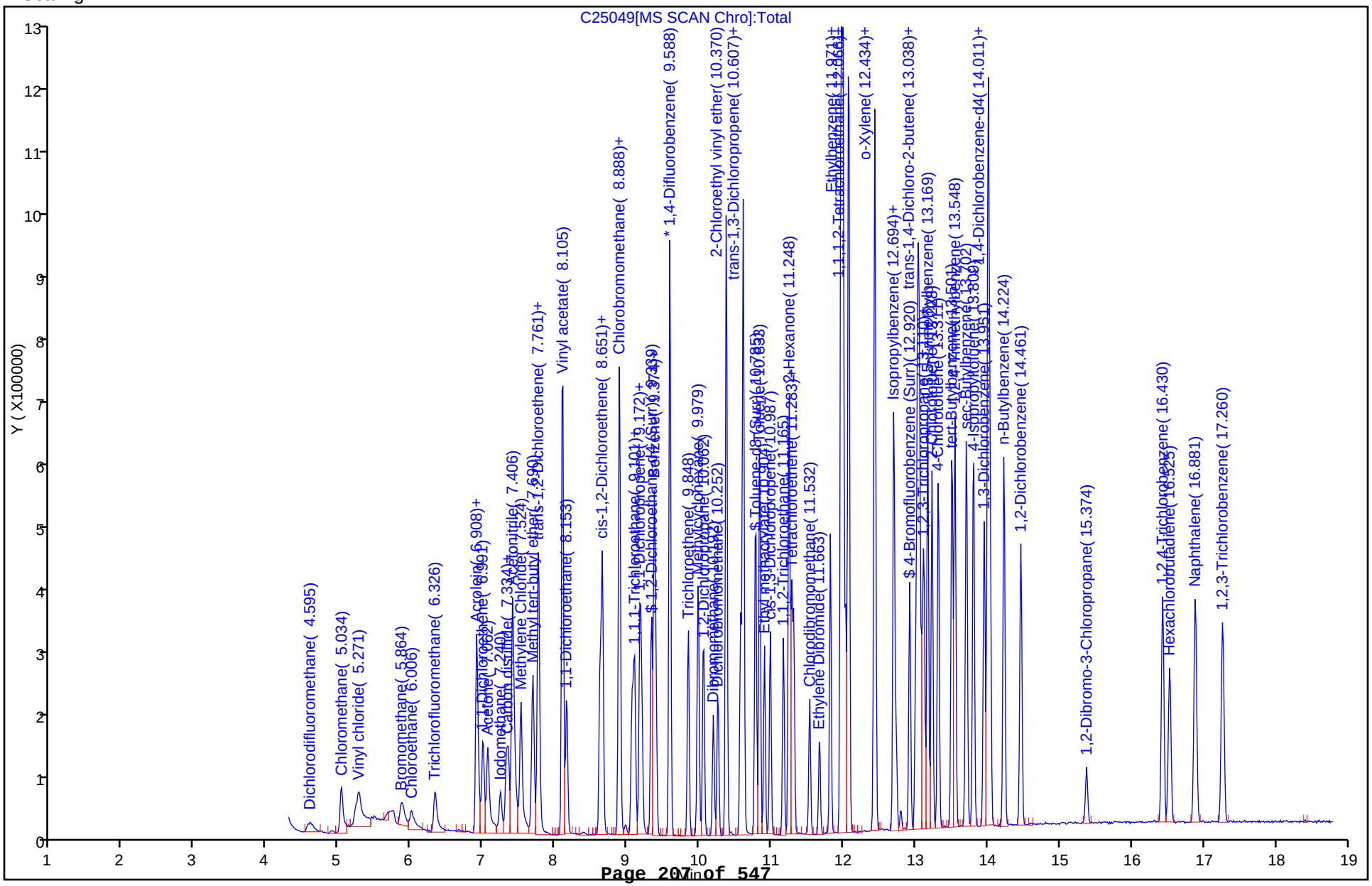
| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| 120 Hexachlorobutadiene | 225 | 16.525 | 16.525 | 0.0 | 89 | 70138 | 10.1 | |
| 121 Naphthalene | 128 | 16.881 | 16.881 | 0.0 | 97 | 419296 | 10.0 | |
| 122 1,2,3-Trichlorobenzene | 180 | 17.260 | 17.260 | 0.0 | 93 | 147256 | 10.1 | |
| S 125 1,2-Dichloroethene, Total | 1 | | | | 0 | | 19.7 | |
| S 126 1,3-Dichloropropene, Total | 1 | | | | 0 | | 19.2 | |
| S 123 Total BTEX | 1 | | | | 0 | | 60.3 | |
| S 124 Xylenes, Total | 1 | | | | 0 | | 30.2 | |

Report Date: 10-Dec-2012 11:22:04 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25049.D | | |
| Injection Date: | 09-Dec-2012 21:52:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973C |
| Lims Batch ID: | 94870 | Lims Sample ID: | 7 |
| Operator ID: | NMD | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25050.D | | |
| Lims ID: | ICIS 4 | Client ID: | |
| Inject. Date: | 09-Dec-2012 22:17:30 | Dil. Factor: | 1.0000 |
| Sample Type: | ICIS | Calib Level: | 5 |
| Sample ID: | ICIS 4 | | |
| Misc. Info.: | 480-0017365-008 | | |
| Operator: | NMD | Instrument ID: | HP5973C |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 28 |
| Lims Batch ID: | 94870 | Lims Sample ID: | 8 |
| Sublist: | chrom-C-8260*sub1 | | |
| Detector: | MS SCAN | | |

| | | | |
|---|---|---|---|
| Method: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C-8260.m | | |
| Last Update: | 10-Dec-2012 11:30:18 | Calib Date: | 10-Dec-2012 03:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25063.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK028 | | |

First Level Reviewer: HillL Date: 10-Dec-2012 10:56:46

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 9.588 | 9.588 | 0.0 | 96 | 680011 | 25.0 | |
| * 2 Chlorobenzene-d5 | 82 | 11.959 | 11.959 | 0.0 | 91 | 368343 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.011 | 14.011 | 0.0 | 76 | 321698 | 25.0 | |
| $ 4 1,2-Dichloroethane-d4 (Surr) | 67 | 9.339 | 9.339 | 0.0 | 0 | 133959 | 21.2 | |
| $ 5 Toluene-d8 (Surr) | 98 | 10.785 | 10.785 | 0.0 | 94 | 712632 | 21.8 | |
| $ 6 4-Bromofluorobenzene (Surr) | 174 | 12.920 | 12.920 | 0.0 | 82 | 214783 | 20.8 | |
| 10 Dichlorodifluoromethane | 85 | 4.583 | 4.583 | 0.0 | 81 | 195709 | 25.0 | |
| 12 Chloromethane | 50 | 5.022 | 5.022 | 0.0 | 89 | 242144 | 22.2 | |
| 13 Vinyl chloride | 62 | 5.224 | 5.224 | 0.0 | 98 | 232718 | 23.4 | |
| 14 Bromomethane | 94 | 5.864 | 5.864 | 0.0 | 90 | 162542 | 22.7 | |
| 15 Chloroethane | 64 | 6.006 | 6.006 | 0.0 | 98 | 160045 | 24.0 | |
| 17 Trichlorofluoromethane | 101 | 6.326 | 6.326 | 0.0 | 83 | 327924 | 24.1 | |
| 20 Acrolein | 56 | 6.908 | 6.908 | 0.0 | 98 | 769272 | 482.6 | |
| 21 1,1,2-Trichloro-1,2,2-trifluoroe | 101 | 6.919 | 6.919 | 0.0 | 76 | 162409 | 24.7 | |
| 22 1,1-Dichloroethene | 96 | 6.991 | 6.991 | 0.0 | 85 | 163693 | 22.6 | |
| 23 Acetone | 43 | 7.062 | 7.062 | 0.0 | 98 | 482959 | 117.0 | |
| 25 Iodomethane | 142 | 7.240 | 7.240 | 0.0 | 96 | 247937 | 24.7 | |
| 26 Carbon disulfide | 76 | 7.323 | 7.323 | 0.0 | 100 | 617867 | 23.5 | |
| 27 Methyl acetate | 43 | 7.346 | 7.346 | 0.0 | 98 | 297888 | 23.1 | |
| 29 Acetonitrile | 40 | 7.406 | 7.406 | 0.0 | 100 | 774692 | 933.8 | |
| 30 Methylene Chloride | 84 | 7.524 | 7.524 | 0.0 | 90 | 238372 | 22.9 | |
| 32 Methyl tert-butyl ether | 73 | 7.690 | 7.690 | 0.0 | 93 | 717523 | 23.8 | |
| 34 trans-1,2-Dichloroethene | 96 | 7.761 | 7.761 | 0.0 | 90 | 220008 | 22.8 | |
| 33 Acrylonitrile | 53 | 7.773 | 7.773 | 0.0 | 97 | 529941 | 117.4 | |
| 37 Vinyl acetate | 43 | 8.093 | 8.093 | 0.0 | 98 | 2845676 | 121.4 | |
| 39 1,1-Dichloroethane | 63 | 8.153 | 8.153 | 0.0 | 84 | 448699 | 23.3 | |
| 43 2-Butanone (MEK) | 43 | 8.615 | 8.615 | 0.0 | 99 | 732831 | 115.3 | |
| 44 2,2-Dichloropropane | 77 | 8.651 | 8.651 | 0.0 | 88 | 280002 | 23.1 | |
| 45 cis-1,2-Dichloroethene | 96 | 8.651 | 8.651 | 0.0 | 75 | 249269 | 22.8 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| 49 Tetrahydrofuran | 42 | 8.888 | 8.888 | 0.0 | 87 | 466673 | 117.5 | |
| 48 Chlorobromomethane | 128 | 8.888 | 8.888 | 0.0 | 89 | 126750 | 23.5 | |
| 50 Chloroform | 83 | 8.888 | 8.888 | 0.0 | 83 | 431011 | 23.3 | |
| 51 1,1,1-Trichloroethane | 97 | 9.066 | 9.066 | 0.0 | 91 | 343948 | 23.9 | |
| 52 Cyclohexane | 56 | 9.101 | 9.101 | 0.0 | 94 | 318826 | 22.8 | |
| 54 1,1-Dichloropropene | 75 | 9.173 | 9.173 | 0.0 | 91 | 322127 | 23.0 | |
| 55 Carbon tetrachloride | 117 | 9.196 | 9.196 | 0.0 | 78 | 313402 | 23.2 | |
| 57 Benzene | 78 | 9.374 | 9.374 | 0.0 | 94 | 903031 | 23.1 | |
| 58 1,2-Dichloroethane | 62 | 9.398 | 9.398 | 0.0 | 85 | 419659 | 23.3 | |
| 62 Trichloroethene | 95 | 9.848 | 9.848 | 0.0 | 92 | 239202 | 22.8 | |
| 64 Methylcyclohexane | 83 | 9.979 | 9.979 | 0.0 | 97 | 337941 | 23.0 | |
| 65 1,2-Dichloropropane | 63 | 10.062 | 10.062 | 0.0 | 88 | 255113 | 23.5 | |
| 67 Dibromomethane | 93 | 10.192 | 10.192 | 0.0 | 85 | 174030 | 23.5 | |
| 68 Dichlorobromomethane | 83 | 10.252 | 10.252 | 0.0 | 91 | 347133 | 23.9 | |
| 69 2-Chloroethyl vinyl ether | 63 | 10.370 | 10.370 | 0.0 | 94 | 975219 | 119.9 | |
| 77 trans-1,3-Dichloropropene | 75 | 10.572 | 10.572 | 0.0 | 95 | 404623 | 22.8 | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | 10.607 | 10.607 | 0.0 | 97 | 1579704 | 118.1 | |
| 74 Toluene | 92 | 10.833 | 10.833 | 0.0 | 96 | 580890 | 22.8 | |
| 75 Ethyl methacrylate | 69 | 10.904 | 10.904 | 0.0 | 90 | 346424 | 24.0 | |
| 72 cis-1,3-Dichloropropene | 75 | 10.987 | 10.987 | 0.0 | 87 | 394599 | 23.1 | |
| 79 1,1,2-Trichloroethane | 83 | 11.165 | 11.165 | 0.0 | 90 | 186567 | 23.6 | |
| 80 2-Hexanone | 43 | 11.248 | 11.248 | 0.0 | 97 | 1154810 | 119.1 | |
| 81 Tetrachloroethene | 166 | 11.283 | 11.283 | 0.0 | 89 | 234550 | 23.0 | |
| 82 1,3-Dichloropropane | 76 | 11.307 | 11.307 | 0.0 | 89 | 401223 | 23.3 | |
| 83 Chlorodibromomethane | 129 | 11.532 | 11.532 | 0.0 | 88 | 258443 | 23.8 | |
| 84 Ethylene Dibromide | 107 | 11.663 | 11.663 | 0.0 | 98 | 236456 | 23.5 | |
| 88 Ethylbenzene | 91 | 11.995 | 11.995 | 0.0 | 93 | 1131081 | 23.1 | |
| 87 Chlorobenzene | 112 | 11.995 | 11.995 | 0.0 | 78 | 644134 | 23.4 | |
| 89 1,1,1,2-Tetrachloroethane | 131 | 12.030 | 12.030 | 0.0 | 71 | 229133 | 23.9 | |
| 90 m-Xylene & p-Xylene | 106 | 12.078 | 12.078 | 0.0 | 99 | 851837 | 47.0 | |
| 91 o-Xylene | 106 | 12.434 | 12.434 | 0.0 | 97 | 418450 | 23.6 | |
| 92 Styrene | 104 | 12.445 | 12.445 | 0.0 | 91 | 715684 | 23.6 | |
| 94 Isopropylbenzene | 105 | 12.694 | 12.694 | 0.0 | 97 | 1098279 | 23.4 | |
| 95 Bromoform | 173 | 12.730 | 12.730 | 0.0 | 93 | 171704 | 23.9 | |
| 97 1,1,2,2-Tetrachloroethane | 83 | 13.003 | 13.003 | 0.0 | 88 | 316235 | 23.4 | |
| 98 trans-1,4-Dichloro-2-butene | 53 | 13.027 | 13.027 | 0.0 | 91 | 483570 | 123.0 | |
| 99 N-Propylbenzene | 91 | 13.050 | 13.050 | 0.0 | 98 | 1375613 | 23.6 | |
| 100 1,2,3-Trichloropropane | 110 | 13.086 | 13.086 | 0.0 | 57 | 99606 | 23.2 | |
| 101 Bromobenzene | 156 | 13.121 | 13.121 | 0.0 | 68 | 265017 | 23.3 | |
| 102 1,3,5-Trimethylbenzene | 105 | 13.169 | 13.169 | 0.0 | 92 | 940433 | 23.4 | |
| 103 2-Chlorotoluene | 126 | 13.228 | 13.228 | 0.0 | 94 | 247984 | 23.4 | |
| 105 4-Chlorotoluene | 126 | 13.311 | 13.311 | 0.0 | 99 | 260489 | 23.3 | |
| 106 tert-Butylbenzene | 134 | 13.513 | 13.513 | 0.0 | 91 | 181952 | 23.5 | |
| 107 1,2,4-Trimethylbenzene | 105 | 13.548 | 13.548 | 0.0 | 72 | 943533 | 23.2 | |
| 109 sec-Butylbenzene | 105 | 13.702 | 13.702 | 0.0 | 96 | 1161410 | 23.4 | |
| 110 4-Isopropyltoluene | 119 | 13.809 | 13.809 | 0.0 | 96 | 916985 | 23.2 | |
| 111 1,3-Dichlorobenzene | 146 | 13.951 | 13.951 | 0.0 | 94 | 502238 | 23.2 | |
| 113 1,4-Dichlorobenzene | 146 | 14.035 | 14.035 | 0.0 | 88 | 510749 | 23.0 | |
| 115 n-Butylbenzene | 91 | 14.224 | 14.224 | 0.0 | 98 | 921560 | 23.3 | |
| 116 1,2-Dichlorobenzene | 146 | 14.461 | 14.461 | 0.0 | 93 | 487082 | 23.4 | |
| 117 1,2-Dibromo-3-Chloropropane | 75 | 15.375 | 15.375 | 0.0 | 65 | 72768 | 23.2 | |
| 119 1,2,4-Trichlorobenzene | 180 | 16.430 | 16.430 | 0.0 | 92 | 369385 | 23.7 | |

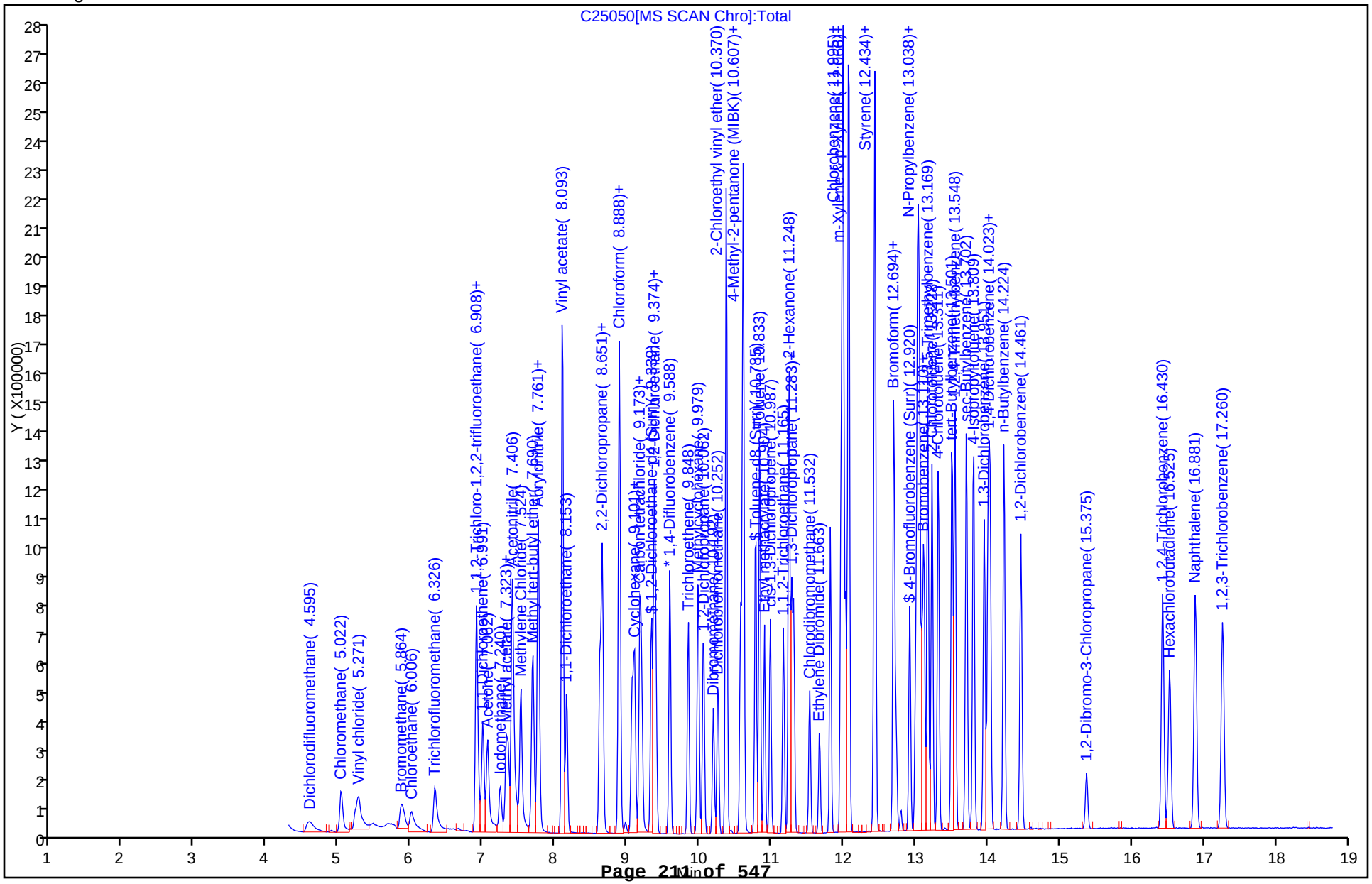
| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| 120 Hexachlorobutadiene | 225 | 16.525 | 16.525 | 0.0 | 92 | 162722 | 22.9 | |
| 121 Naphthalene | 128 | 16.881 | 16.881 | 0.0 | 98 | 1010183 | 23.6 | |
| 122 1,2,3-Trichlorobenzene | 180 | 17.260 | 17.260 | 0.0 | 92 | 349909 | 23.3 | |
| S 125 1,2-Dichloroethene, Total | 1 | | | | 0 | | 45.6 | |
| S 126 1,3-Dichloropropene, Total | 1 | | | | 0 | | 45.9 | |
| S 123 Total BTEX | 1 | | | | 0 | | 139.5 | |
| S 124 Xylenes, Total | 1 | | | | 0 | | 70.6 | |

Report Date: 10-Dec-2012 11:30:19 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25050.D | | |
| Injection Date: | 09-Dec-2012 22:17:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973C |
| Lims Batch ID: | 94870 | Lims Sample ID: | 8 |
| Operator ID: | NMD | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:



Report Date: 10-Dec-2012 11:21:33 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25051.D | | |
| Lims ID: | IC 5 | Client ID: | |
| Inject. Date: | 09-Dec-2012 22:42:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 6 |
| Sample ID: | IC 5 | | |
| Misc. Info.: | 480-0017365-009 | | |
| Operator: | NMD | Instrument ID: | HP5973C |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 29 |
| Lims Batch ID: | 94870 | Lims Sample ID: | 9 |
| Sublist: | chrom-C-8260*sub1 | | |
| Detector: | MS SCAN | | |
| Method: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C-8260.m | | |
| Last Update: | 10-Dec-2012 11:21:32 | Calib Date: | 10-Dec-2012 03:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25063.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK028 | | |

First Level Reviewer: HillL Date: 10-Dec-2012 10:57:07

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 9.588 | 9.588 | 0.0 | 96 | 647471 | 25.0 | |
| * 2 Chlorobenzene-d5 | 82 | 11.971 | 11.959 | 0.012 | 87 | 355293 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.011 | 14.011 | 0.0 | 96 | 311656 | 25.0 | |
| $ 4 1,2-Dichloroethane-d4 (Surr) | 67 | 9.339 | 9.339 | 0.0 | 0 | 298248 | 49.5 | |
| $ 5 Toluene-d8 (Surr) | 98 | 10.785 | 10.785 | 0.0 | 94 | 1498563 | 47.5 | |
| $ 6 4-Bromofluorobenzene (Surr) | 174 | 12.920 | 12.920 | 0.0 | 83 | 464442 | 46.5 | |
| 10 Dichlorodifluoromethane | 85 | 4.607 | 4.583 | 0.024 | 86 | 409255 | 54.9 | |
| 12 Chloromethane | 50 | 5.034 | 5.022 | 0.012 | 89 | 473138 | 45.5 | |
| 13 Vinyl chloride | 62 | 5.247 | 5.224 | 0.023 | 99 | 478556 | 50.7 | |
| 14 Bromomethane | 94 | 5.876 | 5.864 | 0.012 | 92 | 319947 | 46.9 | |
| 15 Chloroethane | 64 | 6.006 | 6.006 | 0.0 | 98 | 317253 | 50.1 | |
| 17 Trichlorofluoromethane | 101 | 6.338 | 6.326 | 0.012 | 84 | 673526 | 51.9 | |
| 20 Acrolein | 56 | 6.908 | 6.908 | 0.0 | 99 | 1612878 | 1062.8 | |
| 21 1,1,2-Trichloro-1,2,2-trifluoroe | 101 | 6.931 | 6.919 | 0.012 | 68 | 336384 | 71.6 | |
| 22 1,1-Dichloroethene | 96 | 7.002 | 6.991 | 0.011 | 86 | 320616 | 44.6 | |
| 23 Acetone | 43 | 7.062 | 7.062 | 0.0 | 98 | 1000713 | 254.6 | |
| 25 Iodomethane | 142 | 7.240 | 7.240 | 0.0 | 96 | 500611 | 52.4 | |
| 26 Carbon disulfide | 76 | 7.323 | 7.323 | 0.0 | 99 | 1270116 | 50.6 | |
| 27 Methyl acetate | 43 | 7.346 | 7.346 | 0.0 | 98 | 622698 | 50.7 | |
| 29 Acetonitrile | 40 | 7.406 | 7.406 | 0.0 | 100 | 1604127 | 2030.7 | |
| 30 Methylene Chloride | 84 | 7.524 | 7.524 | 0.0 | 91 | 467038 | 47.5 | |
| 32 Methyl tert-butyl ether | 73 | 7.690 | 7.690 | 0.0 | 92 | 1430991 | 49.8 | |
| 34 trans-1,2-Dichloroethene | 96 | 7.761 | 7.761 | 0.0 | 90 | 435249 | 47.4 | |
| 33 Acrylonitrile | 53 | 7.773 | 7.773 | 0.0 | 98 | 1100843 | 256.2 | |
| 37 Vinyl acetate | 43 | 8.105 | 8.093 | 0.012 | 98 | 5718036 | 256.2 | |
| 39 1,1-Dichloroethane | 63 | 8.165 | 8.153 | 0.012 | 86 | 884820 | 48.4 | |
| 43 2-Butanone (MEK) | 43 | 8.615 | 8.615 | 0.0 | 99 | 1539815 | 254.4 | |
| 44 2,2-Dichloropropane | 77 | 8.651 | 8.651 | 0.0 | 87 | 534283 | 46.4 | |
| 45 cis-1,2-Dichloroethene | 96 | 8.663 | 8.651 | 0.012 | 75 | 488354 | 46.9 | |

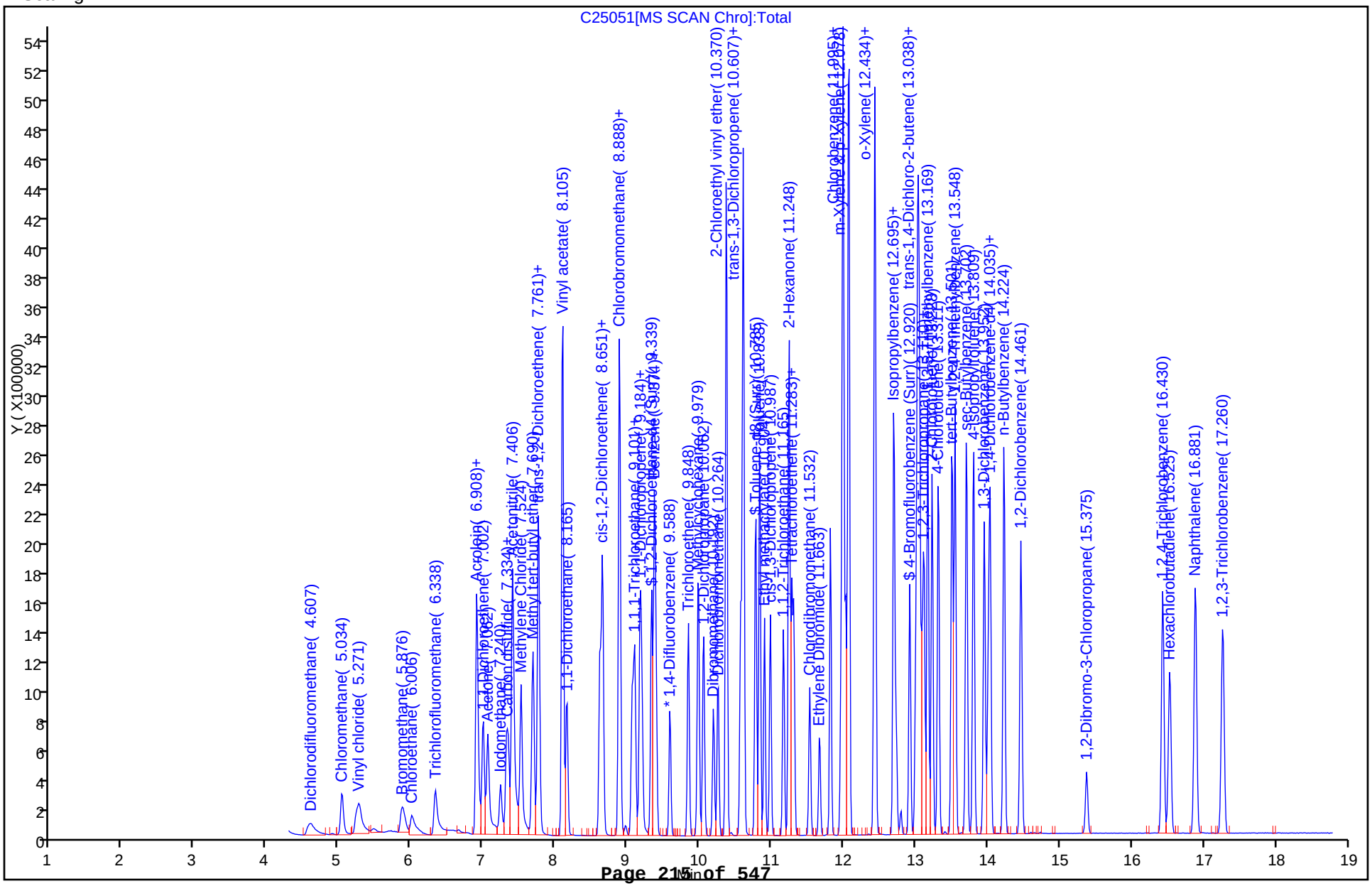
| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| 49 Tetrahydrofuran | 42 | 8.888 | 8.888 | 0.0 | 88 | 957095 | 253.1 | |
| 48 Chlorobromomethane | 128 | 8.888 | 8.888 | 0.0 | 90 | 248100 | 48.3 | |
| 50 Chloroform | 83 | 8.900 | 8.888 | 0.012 | 84 | 848134 | 48.1 | |
| 51 1,1,1-Trichloroethane | 97 | 9.066 | 9.066 | 0.0 | 91 | 675667 | 49.2 | |
| 52 Cyclohexane | 56 | 9.101 | 9.101 | 0.0 | 94 | 663006 | 49.9 | |
| 54 1,1-Dichloropropene | 75 | 9.173 | 9.173 | 0.0 | 89 | 644004 | 48.2 | |
| 55 Carbon tetrachloride | 117 | 9.196 | 9.196 | 0.0 | 79 | 644880 | 50.2 | |
| 57 Benzene | 78 | 9.374 | 9.374 | 0.0 | 94 | 1778107 | 47.7 | |
| 58 1,2-Dichloroethane | 62 | 9.398 | 9.398 | 0.0 | 85 | 829922 | 48.4 | |
| 62 Trichloroethene | 95 | 9.848 | 9.848 | 0.0 | 93 | 473426 | 47.3 | |
| 64 Methylcyclohexane | 83 | 9.979 | 9.979 | 0.0 | 97 | 703064 | 50.3 | |
| 65 1,2-Dichloropropane | 63 | 10.062 | 10.062 | 0.0 | 88 | 502489 | 48.6 | |
| 67 Dibromomethane | 93 | 10.192 | 10.192 | 0.0 | 85 | 348529 | 49.4 | |
| 68 Dichlorobromomethane | 83 | 10.264 | 10.252 | 0.012 | 92 | 691248 | 50.1 | |
| 69 2-Chloroethyl vinyl ether | 63 | 10.370 | 10.370 | 0.0 | 92 | 1972924 | 254.7 | |
| 77 trans-1,3-Dichloropropene | 75 | 10.572 | 10.572 | 0.0 | 95 | 817123 | 47.7 | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | 10.607 | 10.607 | 0.0 | 98 | 3218693 | 249.4 | |
| 74 Toluene | 92 | 10.833 | 10.833 | 0.0 | 96 | 1152137 | 46.8 | |
| 75 Ethyl methacrylate | 69 | 10.904 | 10.904 | 0.0 | 90 | 710796 | 51.0 | |
| 72 cis-1,3-Dichloropropene | 75 | 10.987 | 10.987 | 0.0 | 86 | 788819 | 48.6 | |
| 79 1,1,2-Trichloroethane | 83 | 11.165 | 11.165 | 0.0 | 90 | 369279 | 48.3 | |
| 80 2-Hexanone | 43 | 11.248 | 11.248 | 0.0 | 96 | 2368233 | 253.2 | |
| 81 Tetrachloroethene | 166 | 11.283 | 11.283 | 0.0 | 89 | 457328 | 46.5 | |
| 82 1,3-Dichloropropane | 76 | 11.307 | 11.307 | 0.0 | 94 | 793290 | 47.8 | |
| 83 Chlorodibromomethane | 129 | 11.532 | 11.532 | 0.0 | 88 | 524832 | 50.2 | |
| 84 Ethylene Dibromide | 107 | 11.663 | 11.663 | 0.0 | 97 | 475773 | 49.0 | |
| 88 Ethylbenzene | 91 | 11.995 | 11.995 | 0.0 | 92 | 2228099 | 47.1 | |
| 87 Chlorobenzene | 112 | 11.995 | 11.995 | 0.0 | 75 | 1267089 | 47.8 | |
| 89 1,1,1,2-Tetrachloroethane | 131 | 12.030 | 12.030 | 0.0 | 72 | 447977 | 48.5 | |
| 90 m-Xylene & p-Xylene | 106 | 12.078 | 12.078 | 0.0 | 99 | 1675580 | 95.8 | |
| 91 o-Xylene | 106 | 12.434 | 12.434 | 0.0 | 92 | 823339 | 48.2 | |
| 92 Styrene | 104 | 12.445 | 12.445 | 0.0 | 92 | 1421327 | 48.5 | |
| 94 Isopropylbenzene | 105 | 12.695 | 12.694 | 0.0 | 97 | 2178941 | 47.8 | |
| 95 Bromoform | 173 | 12.730 | 12.730 | 0.0 | 94 | 357874 | 51.7 | |
| 97 1,1,2,2-Tetrachloroethane | 83 | 13.003 | 13.003 | 0.0 | 88 | 651205 | 49.8 | |
| 98 trans-1,4-Dichloro-2-butene | 53 | 13.027 | 13.027 | 0.0 | 91 | 1032130 | 270.9 | |
| 99 N-Propylbenzene | 91 | 13.050 | 13.050 | 0.0 | 98 | 2706396 | 47.8 | |
| 100 1,2,3-Trichloropropane | 110 | 13.086 | 13.086 | 0.0 | 57 | 204927 | 49.3 | |
| 101 Bromobenzene | 156 | 13.121 | 13.121 | 0.0 | 69 | 522890 | 47.4 | |
| 102 1,3,5-Trimethylbenzene | 105 | 13.169 | 13.169 | 0.0 | 92 | 1840824 | 47.3 | |
| 103 2-Chlorotoluene | 126 | 13.228 | 13.228 | 0.0 | 94 | 486243 | 47.4 | |
| 105 4-Chlorotoluene | 126 | 13.323 | 13.311 | 0.012 | 99 | 513636 | 47.5 | |
| 106 tert-Butylbenzene | 134 | 13.513 | 13.513 | 0.0 | 91 | 357641 | 47.7 | |
| 107 1,2,4-Trimethylbenzene | 105 | 13.548 | 13.548 | 0.0 | 71 | 1872855 | 47.6 | |
| 109 sec-Butylbenzene | 105 | 13.702 | 13.702 | 0.0 | 96 | 2299428 | 47.8 | |
| 110 4-Isopropyltoluene | 119 | 13.809 | 13.809 | 0.0 | 94 | 1821736 | 47.6 | |
| 111 1,3-Dichlorobenzene | 146 | 13.952 | 13.951 | 0.001 | 93 | 987216 | 47.1 | |
| 113 1,4-Dichlorobenzene | 146 | 14.035 | 14.035 | 0.001 | 91 | 1013112 | 47.1 | |
| 115 n-Butylbenzene | 91 | 14.224 | 14.224 | 0.0 | 98 | 1830779 | 47.8 | |
| 116 1,2-Dichlorobenzene | 146 | 14.461 | 14.461 | 0.0 | 93 | 968378 | 48.1 | |
| 117 1,2-Dibromo-3-Chloropropane | 75 | 15.375 | 15.375 | 0.0 | 74 | 151114 | 50.1 | |
| 119 1,2,4-Trichlorobenzene | 180 | 16.430 | 16.430 | 0.0 | 92 | 734128 | 48.5 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| 120 Hexachlorobutadiene | 225 | 16.525 | 16.525 | 0.0 | 94 | 329362 | 47.8 | |
| 121 Naphthalene | 128 | 16.881 | 16.881 | 0.0 | 98 | 2091477 | 50.4 | |
| 122 1,2,3-Trichlorobenzene | 180 | 17.272 | 17.260 | 0.012 | 93 | 699537 | 48.1 | |
| S 125 1,2-Dichloroethene, Total | 1 | | | | 0 | | 94.3 | |
| S 126 1,3-Dichloropropene, Total | 1 | | | | 0 | | 96.2 | |
| S 123 Total BTEX | 1 | | | | 0 | | 285.6 | |
| S 124 Xylenes, Total | 1 | | | | 0 | | 144.0 | |

Report Date: 10-Dec-2012 11:21:33 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25051.D | | |
| Injection Date: | 09-Dec-2012 22:42:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973C |
| Lims Batch ID: | 94870 | Lims Sample ID: | 9 |
| Operator ID: | NMD | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Y Scaling: | | | |



Report Date: 10-Dec-2012 11:19:50 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25052.D | | |
| Lims ID: | IC 6 | Client ID: | |
| Inject. Date: | 09-Dec-2012 23:07:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 7 |
| Sample ID: | IC 6 | | |
| Misc. Info.: | 480-0017365-010 | | |
| Operator: | NMD | Instrument ID: | HP5973C |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 30 |
| Lims Batch ID: | 94870 | Lims Sample ID: | 10 |
| Sublist: | chrom-C-8260*sub1 | | |
| Detector: | MS SCAN | | |
| Method: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C-8260.m | | |
| Last Update: | 10-Dec-2012 11:19:50 | Calib Date: | 10-Dec-2012 03:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25063.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK028 | | |

First Level Reviewer: HillL Date: 10-Dec-2012 10:57:51

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 9.588 | 9.588 | 0.0 | 96 | 640698 | 25.0 | |
| * 2 Chlorobenzene-d5 | 82 | 11.971 | 11.959 | 0.012 | 84 | 352990 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.011 | 14.011 | 0.0 | 97 | 304690 | 25.0 | |
| $ 4 1,2-Dichloroethane-d4 (Surr) | 67 | 9.339 | 9.339 | 0.0 | 0 | 602426 | 101.0 | |
| $ 5 Toluene-d8 (Surr) | 98 | 10.785 | 10.785 | 0.0 | 94 | 2994969 | 95.6 | |
| $ 6 4-Bromofluorobenzene (Surr) | 174 | 12.920 | 12.920 | 0.0 | 84 | 964950 | 97.3 | |
| 10 Dichlorodifluoromethane | 85 | 4.595 | 4.583 | 0.012 | 86 | 812821 | 110.1 | |
| 12 Chloromethane | 50 | 5.034 | 5.022 | 0.012 | 89 | 942903 | 91.6 | |
| 13 Vinyl chloride | 62 | 5.236 | 5.224 | 0.012 | 84 | 937313 | 100.4 | |
| 14 Bromomethane | 94 | 5.864 | 5.864 | 0.0 | 93 | 630708 | 93.4 | |
| 15 Chloroethane | 64 | 6.006 | 6.006 | 0.0 | 98 | 631042 | 100.6 | |
| 17 Trichlorofluoromethane | 101 | 6.327 | 6.326 | 0.001 | 84 | 1340184 | 104.0 | |
| 20 Acrolein | 56 | 6.908 | 6.908 | 0.0 | 99 | 3163294 | 2106.4 | |
| 21 1,1,2-Trichloro-1,2,2-trifluoroe | 101 | 6.920 | 6.919 | 0.001 | 69 | 507030 | 100.0 | |
| 22 1,1-Dichloroethene | 96 | 6.991 | 6.991 | 0.0 | 84 | 720777 | 100.1 | |
| 23 Acetone | 43 | 7.062 | 7.062 | 0.0 | 96 | 1926843 | 495.4 | |
| 25 Iodomethane | 142 | 7.240 | 7.240 | 0.0 | 96 | 957172 | 101.3 | |
| 26 Carbon disulfide | 76 | 7.323 | 7.323 | 0.0 | 100 | 2385424 | 96.1 | |
| 27 Methyl acetate | 43 | 7.346 | 7.346 | 0.0 | 98 | 1200399 | 98.8 | |
| 29 Acetonitrile | 40 | 7.406 | 7.406 | 0.0 | 99 | 3080610 | 3941.0 | |
| 30 Methylene Chloride | 84 | 7.524 | 7.524 | 0.0 | 90 | 900864 | 93.0 | |
| 32 Methyl tert-butyl ether | 73 | 7.690 | 7.690 | 0.0 | 92 | 2840053 | 100.0 | |
| 34 trans-1,2-Dichloroethene | 96 | 7.761 | 7.761 | 0.0 | 90 | 851216 | 93.8 | |
| 33 Acrylonitrile | 53 | 7.773 | 7.773 | 0.0 | 98 | 2136258 | 502.5 | |
| 37 Vinyl acetate | 43 | 8.094 | 8.093 | 0.001 | 98 | 10787504 | 488.5 | |
| 39 1,1-Dichloroethane | 63 | 8.153 | 8.153 | 0.0 | 86 | 1710413 | 94.5 | |
| 43 2-Butanone (MEK) | 43 | 8.615 | 8.615 | 0.0 | 99 | 2983487 | 498.2 | |
| 44 2,2-Dichloropropane | 77 | 8.651 | 8.651 | 0.0 | 87 | 1035360 | 90.8 | |
| 45 cis-1,2-Dichloroethene | 96 | 8.651 | 8.651 | 0.0 | 75 | 958612 | 92.9 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| 49 Tetrahydrofuran | 42 | 8.888 | 8.888 | 0.0 | 88 | 1822203 | 486.9 | |
| 48 Chlorobromomethane | 128 | 8.888 | 8.888 | 0.0 | 83 | 484581 | 95.3 | |
| 50 Chloroform | 83 | 8.888 | 8.888 | 0.0 | 83 | 1641179 | 94.1 | |
| 51 1,1,1-Trichloroethane | 97 | 9.066 | 9.066 | 0.0 | 91 | 1357938 | 99.9 | |
| 52 Cyclohexane | 56 | 9.101 | 9.101 | 0.0 | 94 | 1252273 | 95.2 | |
| 54 1,1-Dichloropropene | 75 | 9.173 | 9.173 | 0.0 | 90 | 1255488 | 95.1 | |
| 55 Carbon tetrachloride | 117 | 9.196 | 9.196 | 0.0 | 79 | 1260452 | 99.1 | |
| 57 Benzene | 78 | 9.374 | 9.374 | 0.0 | 94 | 3435994 | 93.1 | |
| 58 1,2-Dichloroethane | 62 | 9.398 | 9.398 | 0.0 | 86 | 1606882 | 94.6 | |
| 62 Trichloroethene | 95 | 9.849 | 9.848 | 0.001 | 93 | 919380 | 92.8 | |
| 64 Methylcyclohexane | 83 | 9.979 | 9.979 | 0.0 | 97 | 1250167 | 90.4 | |
| 65 1,2-Dichloropropane | 63 | 10.062 | 10.062 | 0.0 | 89 | 972774 | 95.2 | |
| 67 Dibromomethane | 93 | 10.192 | 10.192 | 0.0 | 86 | 677878 | 97.1 | |
| 68 Dichlorobromomethane | 83 | 10.252 | 10.252 | 0.0 | 92 | 1347168 | 98.6 | |
| 69 2-Chloroethyl vinyl ether | 63 | 10.370 | 10.370 | 0.0 | 92 | 3765209 | 491.3 | |
| 77 trans-1,3-Dichloropropene | 75 | 10.572 | 10.572 | 0.0 | 96 | 1600868 | 94.0 | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | 10.608 | 10.607 | 0.001 | 97 | 6096588 | 475.4 | |
| 74 Toluene | 92 | 10.833 | 10.833 | 0.0 | 97 | 2231039 | 91.2 | |
| 75 Ethyl methacrylate | 69 | 10.904 | 10.904 | 0.0 | 90 | 1392396 | 100.5 | |
| 72 cis-1,3-Dichloropropene | 75 | 10.987 | 10.987 | 0.0 | 88 | 1565533 | 97.4 | |
| 79 1,1,2-Trichloroethane | 83 | 11.165 | 11.165 | 0.0 | 90 | 722789 | 95.2 | |
| 80 2-Hexanone | 43 | 11.248 | 11.248 | 0.0 | 96 | 4522865 | 486.8 | |
| 81 Tetrachloroethene | 166 | 11.283 | 11.283 | 0.0 | 89 | 894950 | 91.6 | |
| 82 1,3-Dichloropropane | 76 | 11.307 | 11.307 | 0.0 | 88 | 1532227 | 93.0 | |
| 83 Chlorodibromomethane | 129 | 11.532 | 11.532 | 0.0 | 88 | 1045129 | 100.6 | |
| 84 Ethylene Dibromide | 107 | 11.663 | 11.663 | 0.0 | 98 | 925475 | 96.0 | |
| 88 Ethylbenzene | 91 | 11.995 | 11.995 | 0.0 | 93 | 4279605 | 91.0 | |
| 87 Chlorobenzene | 112 | 11.995 | 11.995 | 0.0 | 83 | 2445251 | 92.8 | |
| 89 1,1,1,2-Tetrachloroethane | 131 | 12.031 | 12.030 | 0.001 | 75 | 881021 | 96.0 | |
| 90 m-Xylene & p-Xylene | 106 | 12.078 | 12.078 | 0.0 | 99 | 3227700 | 185.7 | |
| 91 o-Xylene | 106 | 12.434 | 12.434 | 0.0 | 92 | 1582283 | 93.3 | |
| 92 Styrene | 104 | 12.446 | 12.445 | 0.001 | 92 | 2782187 | 95.6 | |
| 94 Isopropylbenzene | 105 | 12.695 | 12.694 | 0.001 | 97 | 4214544 | 94.6 | |
| 95 Bromoform | 173 | 12.730 | 12.730 | 0.0 | 93 | 720329 | 104.8 | |
| 97 1,1,2,2-Tetrachloroethane | 83 | 13.003 | 13.003 | 0.0 | 85 | 1264418 | 98.8 | |
| 98 trans-1,4-Dichloro-2-butene | 53 | 13.027 | 13.027 | 0.0 | 92 | 2037360 | 546.9 | |
| 99 N-Propylbenzene | 91 | 13.050 | 13.050 | 0.0 | 98 | 5256198 | 95.0 | |
| 100 1,2,3-Trichloropropane | 110 | 13.086 | 13.086 | 0.0 | 80 | 396536 | 97.6 | |
| 101 Bromobenzene | 156 | 13.122 | 13.121 | 0.001 | 90 | 1021320 | 94.7 | |
| 102 1,3,5-Trimethylbenzene | 105 | 13.169 | 13.169 | 0.0 | 92 | 3631623 | 95.4 | |
| 103 2-Chlorotoluene | 126 | 13.228 | 13.228 | 0.0 | 94 | 951899 | 94.9 | |
| 105 4-Chlorotoluene | 126 | 13.323 | 13.311 | 0.012 | 99 | 991886 | 93.8 | |
| 106 tert-Butylbenzene | 134 | 13.513 | 13.513 | 0.0 | 91 | 703825 | 96.1 | |
| 107 1,2,4-Trimethylbenzene | 105 | 13.548 | 13.548 | 0.0 | 74 | 3650268 | 94.9 | |
| 109 sec-Butylbenzene | 105 | 13.703 | 13.702 | 0.001 | 96 | 4496730 | 95.6 | |
| 110 4-Isopropyltoluene | 119 | 13.809 | 13.809 | 0.0 | 97 | 3565733 | 95.4 | |
| 111 1,3-Dichlorobenzene | 146 | 13.952 | 13.951 | 0.001 | 94 | 1932001 | 94.3 | |
| 113 1,4-Dichlorobenzene | 146 | 14.035 | 14.035 | 0.001 | 91 | 1976212 | 94.0 | |
| 115 n-Butylbenzene | 91 | 14.224 | 14.224 | 0.0 | 98 | 3605162 | 96.3 | |
| 116 1,2-Dichlorobenzene | 146 | 14.462 | 14.461 | 0.001 | 93 | 1892163 | 96.1 | |
| 117 1,2-Dibromo-3-Chloropropane | 75 | 15.375 | 15.375 | 0.0 | 75 | 298472 | 101.7 | |
| 119 1,2,4-Trichlorobenzene | 180 | 16.430 | 16.430 | 0.0 | 93 | 1457338 | 98.5 | |

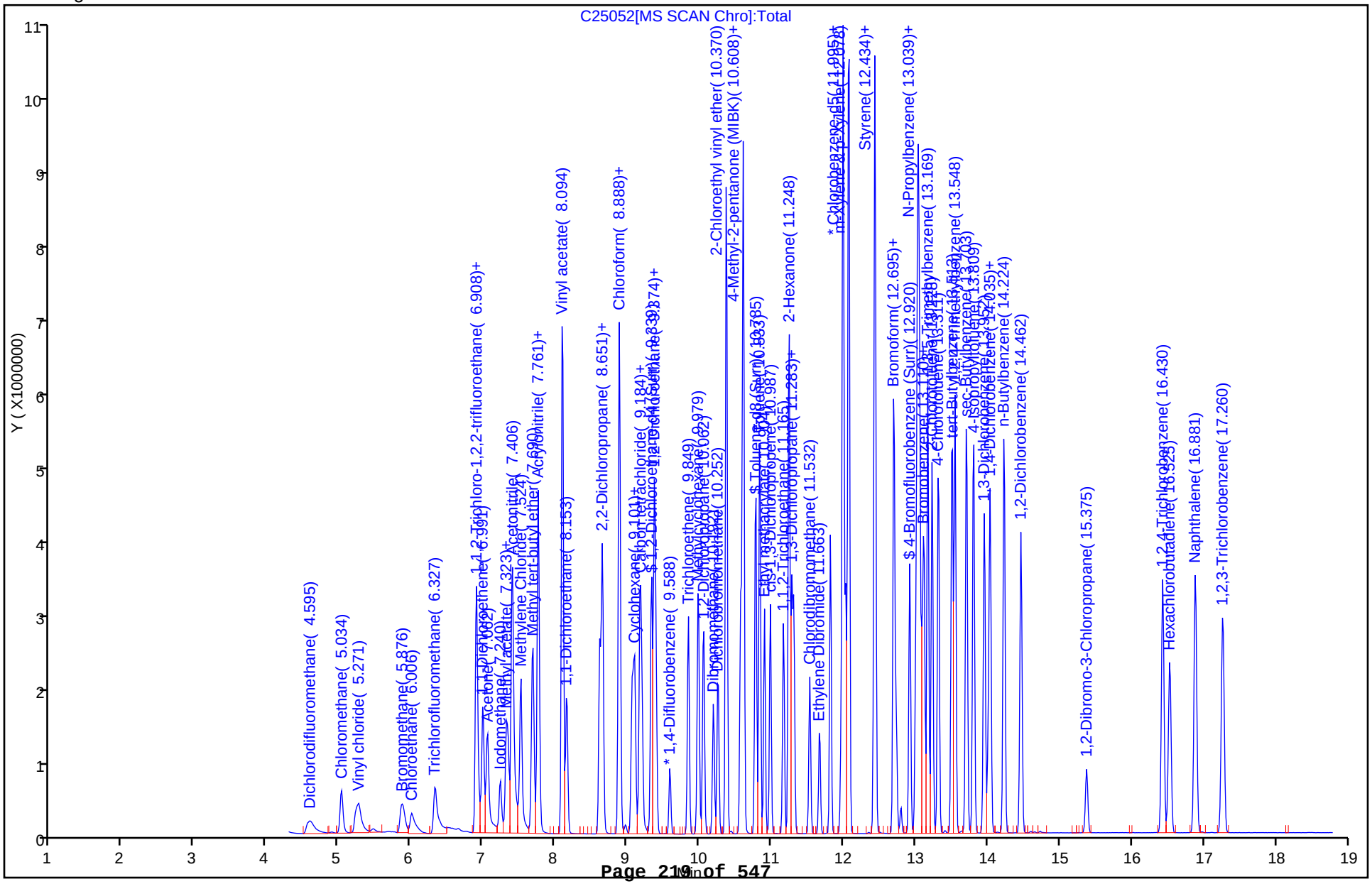
| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| 120 Hexachlorobutadiene | 225 | 16.525 | 16.525 | 0.0 | 94 | 652409 | 96.7 | |
| 121 Naphthalene | 128 | 16.881 | 16.881 | 0.0 | 98 | 4103855 | 101.1 | |
| 122 1,2,3-Trichlorobenzene | 180 | 17.260 | 17.260 | 0.0 | 92 | 1370025 | 96.4 | |
| S 125 1,2-Dichloroethene, Total | 1 | | | | 0 | | 186.7 | |
| S 126 1,3-Dichloropropene, Total | 1 | | | | 0 | | 191.4 | |
| S 123 Total BTEX | 1 | | | | 0 | | 554.3 | |
| S 124 Xylenes, Total | 1 | | | | 0 | | 279.0 | |

Report Date: 10-Dec-2012 11:19:50 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25052.D | | |
| Injection Date: | 09-Dec-2012 23:07:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973C |
| Lims Batch ID: | 94870 | Lims Sample ID: | 10 |
| Operator ID: | NMD | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:



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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1 Analy Batch No.: 94870

SDG No.:

Instrument ID: HP5973C GC Column: ZB-624 (30) ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/10/2012 01:38 Calibration End Date: 12/10/2012 03:44 Calibration ID: 11396

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | IC 480-94870/16 | C25058.D |
| Level 2 | IC 480-94870/17 | C25059.D |
| Level 3 | IC 480-94870/18 | C25060.D |
| Level 4 | IC 480-94870/19 | C25061.D |
| Level 5 | IC 480-94870/20 | C25062.D |
| Level 6 | IC 480-94870/21 | C25063.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Ethyl ether | 0.3670<br>0.3345 | 0.3446 | 0.3395 | 0.3391 | 0.3401 | Ave | | 0.3441 | | | | 3.4 | | 15.0 | | | |
| 3-Chloro-1-propene | 0.5889<br>0.5494 | 0.5985 | 0.5805 | 0.5592 | 0.5584 | Ave | | 0.5725 | | | | 3.4 | | 15.0 | | | |
| 2-Methyl-2-propanol | 0.0620<br>0.0553 | 0.0588 | 0.0617 | 0.0606 | 0.0606 | Ave | | 0.0598 | | | | 4.2 | | 15.0 | | | |
| Halothane | 0.2099<br>0.1578 | 0.1839 | 0.1739 | 0.1660 | 0.1710 | Ave | | 0.1771 | | | | 10.0 | | 15.0 | | | |
| Isopropyl ether | 1.3316<br>1.1586 | 1.2455 | 1.2543 | 1.2215 | 1.2109 | Ave | | 1.2371 | | | | 4.6 | | 15.0 | | | |
| Tert-butyl ethyl ether | 1.3184<br>1.1345 | 1.2858 | 1.2513 | 1.2462 | 1.2395 | Ave | | 1.2459 | | | | 5.0 | | 15.0 | | | |
| Propionitrile | 0.0688<br>0.0648 | 0.0671 | 0.0694 | 0.0689 | 0.0680 | Ave | | 0.0678 | | | | 2.5 | | 15.0 | | | |
| Tert-amyl methyl ether | 1.1432<br>1.0188 | 1.1048 | 1.0712 | 1.0663 | 1.0800 | Ave | | 1.0807 | | | | 3.8 | | 15.0 | | | |
| n-Heptane | 0.5531<br>0.4926 | 0.5577 | 0.5358 | 0.5027 | 0.5066 | Ave | | 0.5247 | | | | 5.3 | | 15.0 | | | |
| 2,4,4-Trimethyl-1-pentene | 0.3388<br>0.1638 | 0.2885 | 0.2648 | 0.2381 | 0.2019 | Qua | 0.2490 | 0.2398 | -0.001 | | | | | | 0.9990 | | 0.9900 |
| 2,4,4-Trimethyl-2-pentene | 0.7679<br>0.5339 | 0.7004 | 0.6718 | 0.6277 | 0.6042 | Ave | | 0.6510 | | | | 12.0 | | 15.0 | | | |
| 1,4-Dioxane | 0.0071<br>0.0081 | 0.0075 | 0.0082 | 0.0081 | 0.0082 | Ave | | 0.0079 | | | | 5.5 | | 15.0 | | | |
| 2-Nitropropane | 0.3494<br>0.3776 | 0.3386 | 0.3589 | 0.3761 | 0.3783 | Ave | | 0.3631 | | | | 4.6 | | 15.0 | | | |

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1 Analy Batch No.: 94870

SDG No.:

Instrument ID: HP5973C GC Column: ZB-624 (30) ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/10/2012 01:38 Calibration End Date: 12/10/2012 03:44 Calibration ID: 11396

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | IC 480-94870/16 | C25058.D |
| Level 2 | IC 480-94870/17 | C25059.D |
| Level 3 | IC 480-94870/18 | C25060.D |
| Level 4 | IC 480-94870/19 | C25061.D |
| Level 5 | IC 480-94870/20 | C25062.D |
| Level 6 | IC 480-94870/21 | C25063.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Ethyl ether | DFB | Ave | 9811<br>895472 | 45959 | 91904 | 226608 | 451778 | 1.00<br>100 | 5.00 | 10.0 | 25.0 | 50.0 |
| 3-Chloro-1-propene | DFB | Ave | 15741<br>1471018 | 79816 | 157147 | 373689 | 741820 | 1.00<br>100 | 5.00 | 10.0 | 25.0 | 50.0 |
| 2-Methyl-2-propanol | DFB | Ave | 33124<br>2959346 | 156716 | 334119 | 809358 | 1609434 | 20.0<br>2000 | 100 | 200 | 500 | 1000 |
| Halothane | DFB | Ave | 5610<br>422567 | 24530 | 47084 | 110917 | 227189 | 1.00<br>100 | 5.00 | 10.0 | 25.0 | 50.0 |
| Isopropyl ether | DFB | Ave | 35593<br>3102126 | 166106 | 339525 | 816299 | 1608576 | 1.00<br>100 | 5.00 | 10.0 | 25.0 | 50.0 |
| Tert-butyl ethyl ether | DFB | Ave | 35241<br>3037579 | 171476 | 338709 | 832842 | 1646474 | 1.00<br>100 | 5.00 | 10.0 | 25.0 | 50.0 |
| Propionitrile | DFB | Ave | 18387<br>1733921 | 89548 | 187788 | 460469 | 903585 | 10.0<br>1000 | 50.0 | 100 | 250 | 500 |
| Tert-amyl methyl ether | DFB | Ave | 30559<br>2727706 | 147332 | 289979 | 712619 | 1434607 | 1.00<br>100 | 5.00 | 10.0 | 25.0 | 50.0 |
| n-Heptane | DFB | Ave | 14784<br>1318772 | 74378 | 145027 | 335931 | 672955 | 1.00<br>100 | 5.00 | 10.0 | 25.0 | 50.0 |
| 2,4,4-Trimethyl-1-pentene | DFB | Qua | 9057<br>438634 | 38473 | 71684 | 159142 | 268174 | 1.00<br>100 | 5.00 | 10.0 | 25.0 | 50.0 |
| 2,4,4-Trimethyl-2-pentene | DFB | Ave | 20526<br>1429418 | 93411 | 181866 | 419514 | 802567 | 1.00<br>100 | 5.00 | 10.0 | 25.0 | 50.0 |
| 1,4-Dioxane | CBZ | Ave | 4154<br>471537 | 21914 | 47877 | 116482 | 239458 | 40.0<br>4000 | 200 | 400 | 1000 | 2000 |
| 2-Nitropropane | DCB | Ave | 22256<br>2380310 | 108758 | 232253 | 595386 | 1211445 | 5.00<br>500 | 25.0 | 50.0 | 125 | 250 |

Curve Type Legend:

Ave = Average ISTD
Qua = Quadratic ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25058.D | | |
| Lims ID: | IC 7 | Client ID: | |
| Inject. Date: | 10-Dec-2012 01:38:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 1 |
| Sample ID: | IC 7 | | |
| Misc. Info.: | 480-0017365-016 | | |
| Operator: | NMD | Instrument ID: | HP5973C |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 36 |
| Lims Batch ID: | 94870 | Lims Sample ID: | 16 |
| Sublist: | chrom-C-8260*sub29 | | |
| Detector: | MS SCAN | | |
| Method: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C-8260.m | | |
| Last Update: | 10-Dec-2012 11:25:38 | Calib Date: | 10-Dec-2012 03:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25063.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK028 | | |

First Level Reviewer: HillL Date: 10-Dec-2012 10:58:36

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 9.588 | 9.588 | 0.0 | 96 | 668252 | 25.0 | |
| * 2 Chlorobenzene-d5 | 82 | 11.971 | 11.971 | 0.0 | 88 | 363868 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.011 | 14.011 | 0.0 | 97 | 318527 | 25.0 | |
| 11 Chlorodifluoromethane | 51 | 4.631 | 4.631 | 0.0 | 51 | 14505 | 0 | |
| 16 Dichlorofluoromethane | 67 | 6.291 | 6.279 | 0.012 | 20 | 20343 | 0 | |
| 18 Ethyl ether | 59 | 6.659 | 6.659 | 0.0 | 83 | 9811 | 1.07 | |
| 19 Propene oxide | 58 | 6.813 | 6.801 | 0.012 | 81 | 12751 | 0 | |
| 24 Isopropyl alcohol | 45 | 7.157 | 7.145 | 0.012 | 74 | 15174 | 0 | |
| 28 3-Chloro-1-propene | 41 | 7.382 | 7.370 | 0.012 | 67 | 15741 | 1.03 | |
| 31 2-Methyl-2-propanol | 59 | 7.548 | 7.536 | 0.012 | 83 | 33124 | 20.7 | |
| 35 Hexane | 57 | 7.904 | 7.904 | 0.0 | 83 | 12515 | 0 | |
| 135 Halothane | 117 | 8.058 | 8.046 | 0.012 | 0 | 5610 | 1.19 | |
| 36 Isopropyl ether | 45 | 8.058 | 8.058 | 0.0 | 85 | 35593 | 1.08 | |
| 38 1,1-Dimethoxyethane | 75 | 8.153 | 8.153 | 0.0 | 85 | 11582 | 0 | |
| 40 2-Chloro-1,3-butadiene | 53 | 8.212 | 8.212 | 0.0 | 56 | 16480 | 0 | |
| 41 Tert-butyl ethyl ether | 59 | 8.378 | 8.366 | 0.012 | 95 | 35241 | 1.06 | |
| 42 Ethyl acetate | 43 | 8.592 | 8.580 | 0.012 | 80 | 13510 | 0 | |
| 46 Propionitrile | 54 | 8.734 | 8.734 | 0.0 | 78 | 18387 | 10.1 | |
| 47 Methacrylonitrile | 41 | 8.841 | 8.829 | 0.012 | 68 | 9578 | 0 | |
| 53 Isobutyl alcohol | 43 | 9.137 | 9.137 | 0.0 | 78 | 28839 | 0 | |
| 56 Tert-amyl methyl ether | 73 | 9.327 | 9.327 | 0.0 | 87 | 30559 | 1.06 | |
| 59 n-Heptane | 43 | 9.374 | 9.374 | 0.0 | 66 | 14784 | 1.05 | |
| 60 n-Butanol | 56 | 9.647 | 9.647 | 0.0 | 73 | 10041 | 0 | |
| 141 2,4,4-Trimethyl-1-pentene | 55 | 9.706 | 9.694 | 0.012 | 0 | 9057 | 0.3749 | |
| 140 2,4,4-Trimethyl-2-pentene | 97 | 9.849 | 9.849 | 0.0 | 0 | 20526 | 1.18 | |
| 63 Methyl methacrylate | 41 | 9.979 | 9.979 | 0.0 | 68 | 12789 | 1.15 | |
| 66 1,4-Dioxane | 88 | 10.121 | 10.121 | 0.0 | 53 | 4154 | 36.3 | |
| 70 2-Nitropropane | 43 | 10.430 | 10.418 | 0.012 | 95 | 22256 | 4.81 | |
| 71 Epichlorohydrin | 57 | 10.525 | 10.513 | 0.011 | 88 | 27797 | 0 | |

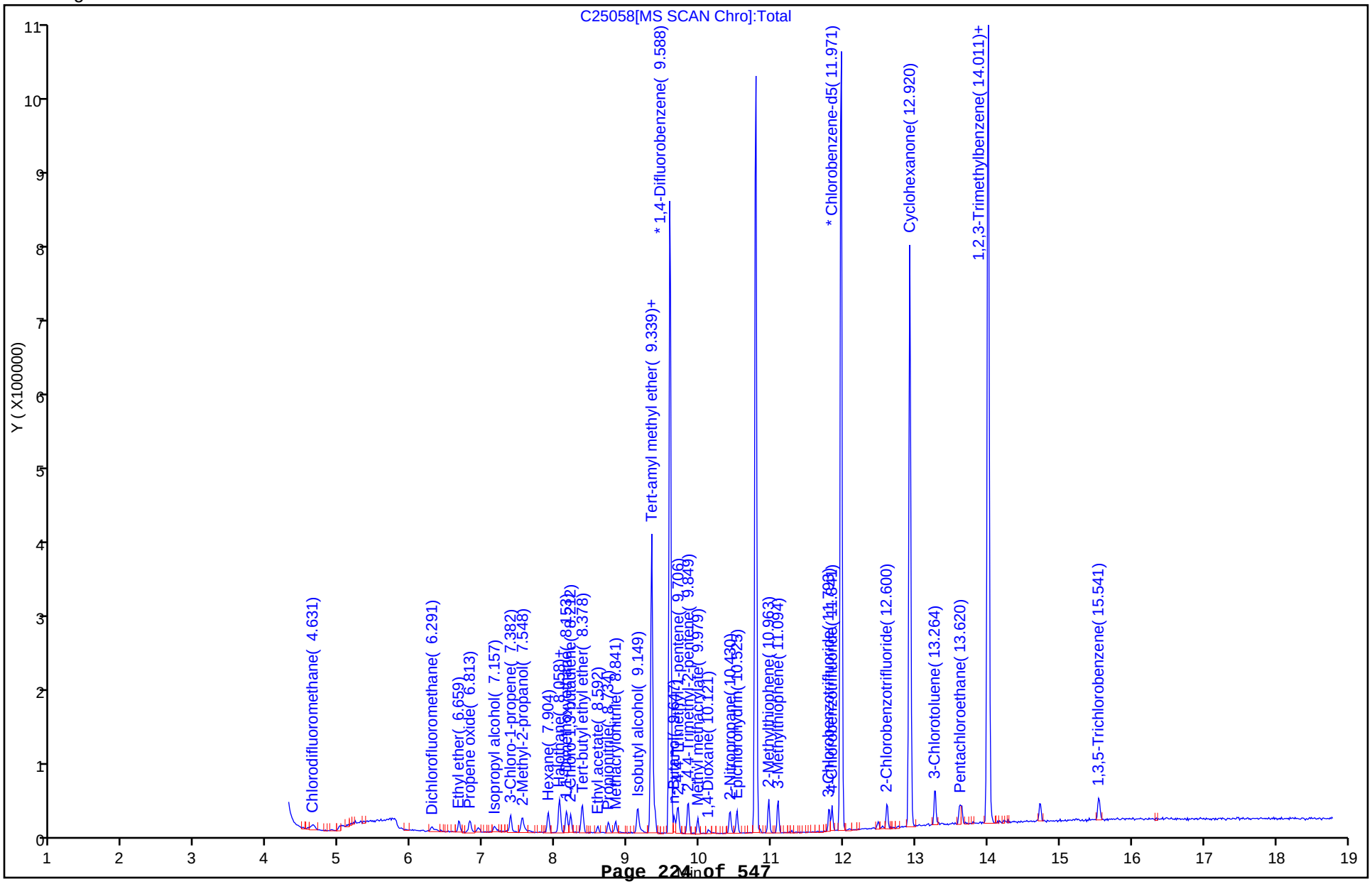
| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| 76 2-Methylthiophene | 97 | 10.963 | 10.963 | 0.0 | 83 | 32701 | 0 | |
| 78 3-Methylthiophene | 97 | 11.094 | 11.094 | 0.0 | 71 | 34602 | 0 | |
| 85 3-Chlorobenzotrifluoride | 180 | 11.805 | 11.805 | 0.0 | 32 | 12861 | 0 | |
| 86 4-Chlorobenzotrifluoride | 180 | 11.841 | 11.841 | 0.0 | 44 | 14130 | 0 | |
| 93 2-Chlorobenzotrifluoride | 180 | 12.612 | 12.600 | 0.012 | 48 | 12410 | 0 | |
| 96 Cyclohexanone | 55 | 12.932 | 12.932 | 0.0 | 79 | 20080 | 0 | |
| 104 3-Chlorotoluene | 126 | 13.276 | 13.276 | 0.0 | 87 | 11375 | 0 | |
| 108 Pentachloroethane | 167 | 13.643 | 13.643 | 0.0 | 49 | 4886 | 0 | |
| 112 1,2,3-Trimethylbenzene | 105 | 13.999 | 13.999 | 0.0 | 86 | 40573 | 0 | |
| 114 Dicyclopentadiene | 66 | 14.058 | 14.058 | 0.0 | 1 | 10737 | 0 | |
| 118 1,3,5-Trichlorobenzene | 180 | 15.541 | 15.541 | 0.0 | 54 | 15486 | 0 | |

Report Date: 10-Dec-2012 11:25:38 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25058.D | | |
| Injection Date: | 10-Dec-2012 01:38:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973C |
| Lims Batch ID: | 94870 | Lims Sample ID: | 16 |
| Operator ID: | NMD | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:



Report Date: 10-Dec-2012 11:25:41 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25059.D | | |
| Lims ID: | IC 8 | Client ID: | |
| Inject. Date: | 10-Dec-2012 02:03:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 2 |
| Sample ID: | IC 8 | | |
| Misc. Info.: | 480-0017365-017 | | |
| Operator: | NMD | Instrument ID: | HP5973C |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 37 |
| Lims Batch ID: | 94870 | Lims Sample ID: | 17 |
| Sublist: | chrom-C-8260*sub29 | | |
| Detector: | MS SCAN | | |
| Method: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C-8260.m | | |
| Last Update: | 10-Dec-2012 11:25:40 | Calib Date: | 10-Dec-2012 03:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25063.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK028 | | |

First Level Reviewer: HillL Date: 10-Dec-2012 10:58:56

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 9.588 | 9.588 | 0.0 | 96 | 666798 | 25.0 | |
| * 2 Chlorobenzene-d5 | 82 | 11.971 | 11.971 | 0.0 | 88 | 363382 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.011 | 14.011 | 0.0 | 98 | 321163 | 25.0 | |
| 11 Chlorodifluoromethane | 51 | 4.643 | 4.631 | 0.012 | 69 | 73581 | 0 | |
| 16 Dichlorofluoromethane | 67 | 6.291 | 6.279 | 0.012 | 69 | 93115 | 0 | |
| 18 Ethyl ether | 59 | 6.659 | 6.659 | 0.0 | 91 | 45959 | 5.01 | |
| 19 Propene oxide | 58 | 6.813 | 6.801 | 0.012 | 93 | 63587 | 0 | |
| 24 Isopropyl alcohol | 45 | 7.157 | 7.145 | 0.012 | 96 | 84745 | 0 | |
| 28 3-Chloro-1-propene | 41 | 7.382 | 7.370 | 0.012 | 84 | 79816 | 5.23 | |
| 31 2-Methyl-2-propanol | 59 | 7.548 | 7.536 | 0.012 | 97 | 156716 | 98.2 | |
| 35 Hexane | 57 | 7.904 | 7.904 | 0.0 | 92 | 69397 | 0 | |
| 135 Halothane | 117 | 8.058 | 8.046 | 0.012 | 0 | 24530 | 5.19 | |
| 36 Isopropyl ether | 45 | 8.058 | 8.058 | 0.0 | 93 | 166106 | 5.03 | |
| 38 1,1-Dimethoxyethane | 75 | 8.153 | 8.153 | 0.0 | 95 | 59513 | 0 | |
| 40 2-Chloro-1,3-butadiene | 53 | 8.212 | 8.212 | 0.0 | 90 | 81200 | 0 | |
| 41 Tert-butyl ethyl ether | 59 | 8.378 | 8.366 | 0.012 | 98 | 171476 | 5.16 | |
| 42 Ethyl acetate | 43 | 8.591 | 8.580 | 0.011 | 95 | 59111 | 0 | |
| 46 Propionitrile | 54 | 8.734 | 8.734 | 0.0 | 96 | 89548 | 49.5 | |
| 47 Methacrylonitrile | 41 | 8.829 | 8.829 | 0.0 | 92 | 38763 | 0 | |
| 53 Isobutyl alcohol | 43 | 9.137 | 9.137 | 0.0 | 92 | 131404 | 0 | |
| 56 Tert-amyl methyl ether | 73 | 9.327 | 9.327 | 0.0 | 95 | 147332 | 5.11 | |
| 59 n-Heptane | 43 | 9.386 | 9.374 | 0.012 | 89 | 74378 | 5.31 | |
| 60 n-Butanol | 56 | 9.647 | 9.647 | 0.0 | 81 | 78835 | 0 | |
| 141 2,4,4-Trimethyl-1-pentene | 55 | 9.706 | 9.694 | 0.012 | 0 | 38473 | 5.06 | |
| 140 2,4,4-Trimethyl-2-pentene | 97 | 9.848 | 9.849 | -0.001 | 0 | 93411 | 5.38 | |
| 63 Methyl methacrylate | 41 | 9.979 | 9.979 | 0.0 | 84 | 54460 | 4.90 | |
| 66 1,4-Dioxane | 88 | 10.121 | 10.121 | 0.0 | 87 | 21914 | 191.5 | |
| 70 2-Nitropropane | 43 | 10.430 | 10.418 | 0.012 | 98 | 108758 | 23.3 | |
| 71 Epichlorohydrin | 57 | 10.524 | 10.513 | 0.011 | 99 | 134681 | 0 | |

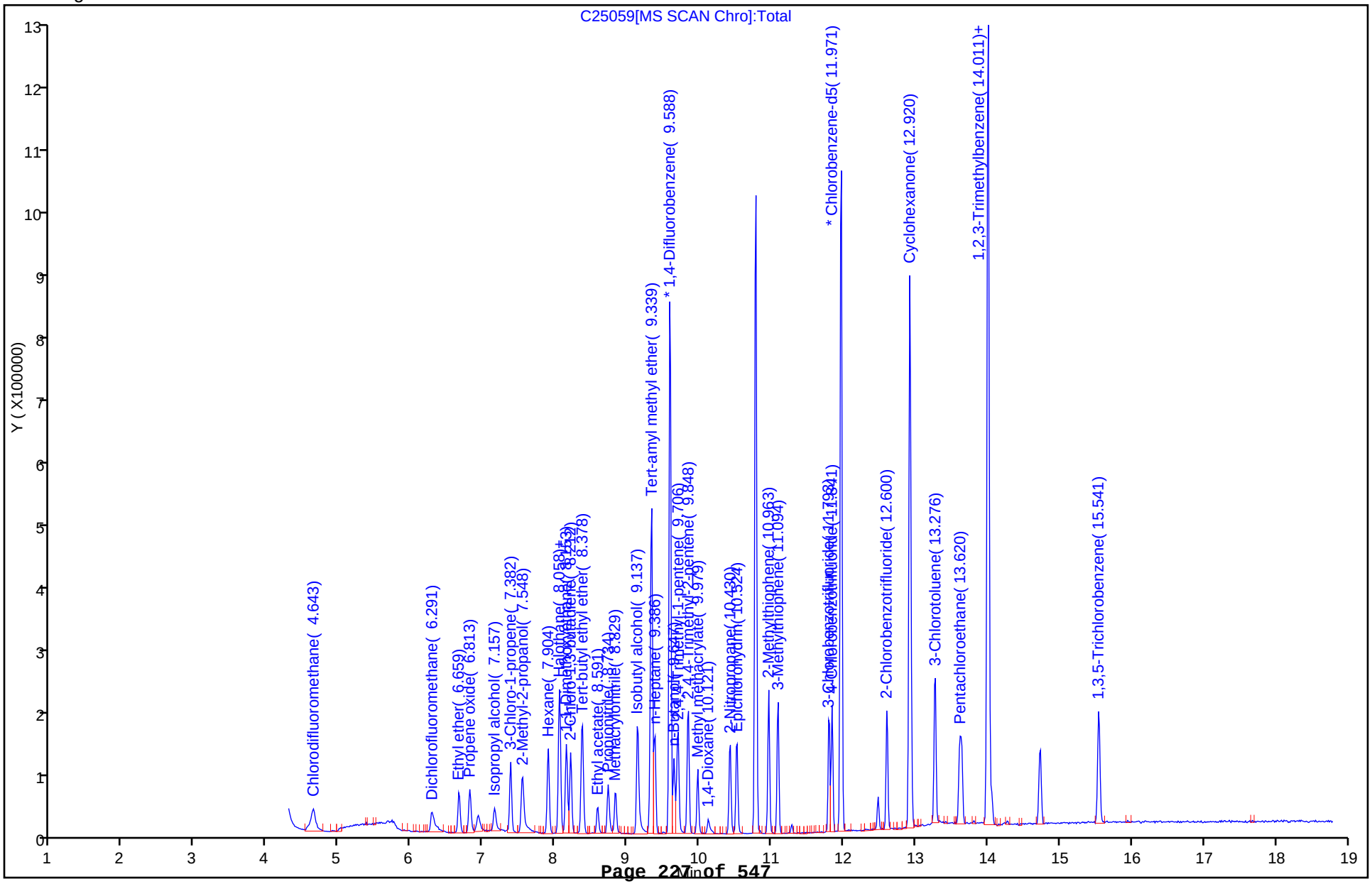
| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| 76 2-Methylthiophene | 97 | 10.963 | 10.963 | 0.0 | 96 | 151771 | 0 | |
| 78 3-Methylthiophene | 97 | 11.094 | 11.094 | 0.0 | 97 | 151794 | 0 | |
| 85 3-Chlorobenzotrifluoride | 180 | 11.805 | 11.805 | 0.0 | 86 | 64714 | 0 | |
| 86 4-Chlorobenzotrifluoride | 180 | 11.841 | 11.841 | 0.0 | 90 | 72850 | 0 | |
| 93 2-Chlorobenzotrifluoride | 180 | 12.600 | 12.600 | 0.0 | 91 | 66742 | 0 | |
| 96 Cyclohexanone | 55 | 12.932 | 12.932 | 0.0 | 87 | 91835 | 0 | |
| 104 3-Chlorotoluene | 126 | 13.276 | 13.276 | 0.0 | 97 | 54513 | 0 | |
| 108 Pentachloroethane | 167 | 13.643 | 13.643 | 0.0 | 76 | 24964 | 0 | |
| 112 1,2,3-Trimethylbenzene | 105 | 13.999 | 13.999 | 0.0 | 92 | 197257 | 0 | |
| 114 Dicyclopentadiene | 66 | 14.058 | 14.058 | 0.0 | 28 | 56911 | 0 | |
| 118 1,3,5-Trichlorobenzene | 180 | 15.552 | 15.541 | 0.011 | 93 | 75983 | 0 | |

Report Date: 10-Dec-2012 11:25:41 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25059.D | | |
| Injection Date: | 10-Dec-2012 02:03:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973C |
| Lims Batch ID: | 94870 | Lims Sample ID: | 17 |
| Operator ID: | NMD | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25060.D | | |
| Lims ID: | IC 9 | Client ID: | |
| Inject. Date: | 10-Dec-2012 02:28:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 3 |
| Sample ID: | IC 9 | | |
| Misc. Info.: | 480-0017365-018 | | |
| Operator: | NMD | Instrument ID: | HP5973C |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 38 |
| Lims Batch ID: | 94870 | Lims Sample ID: | 18 |
| Sublist: | chrom-C-8260*sub29 | | |
| Detector: | MS SCAN | | |
| Method: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C-8260.m | | |
| Last Update: | 10-Dec-2012 11:25:46 | Calib Date: | 10-Dec-2012 03:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25063.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK028 | | |

First Level Reviewer: HillL Date: 10-Dec-2012 10:59:17

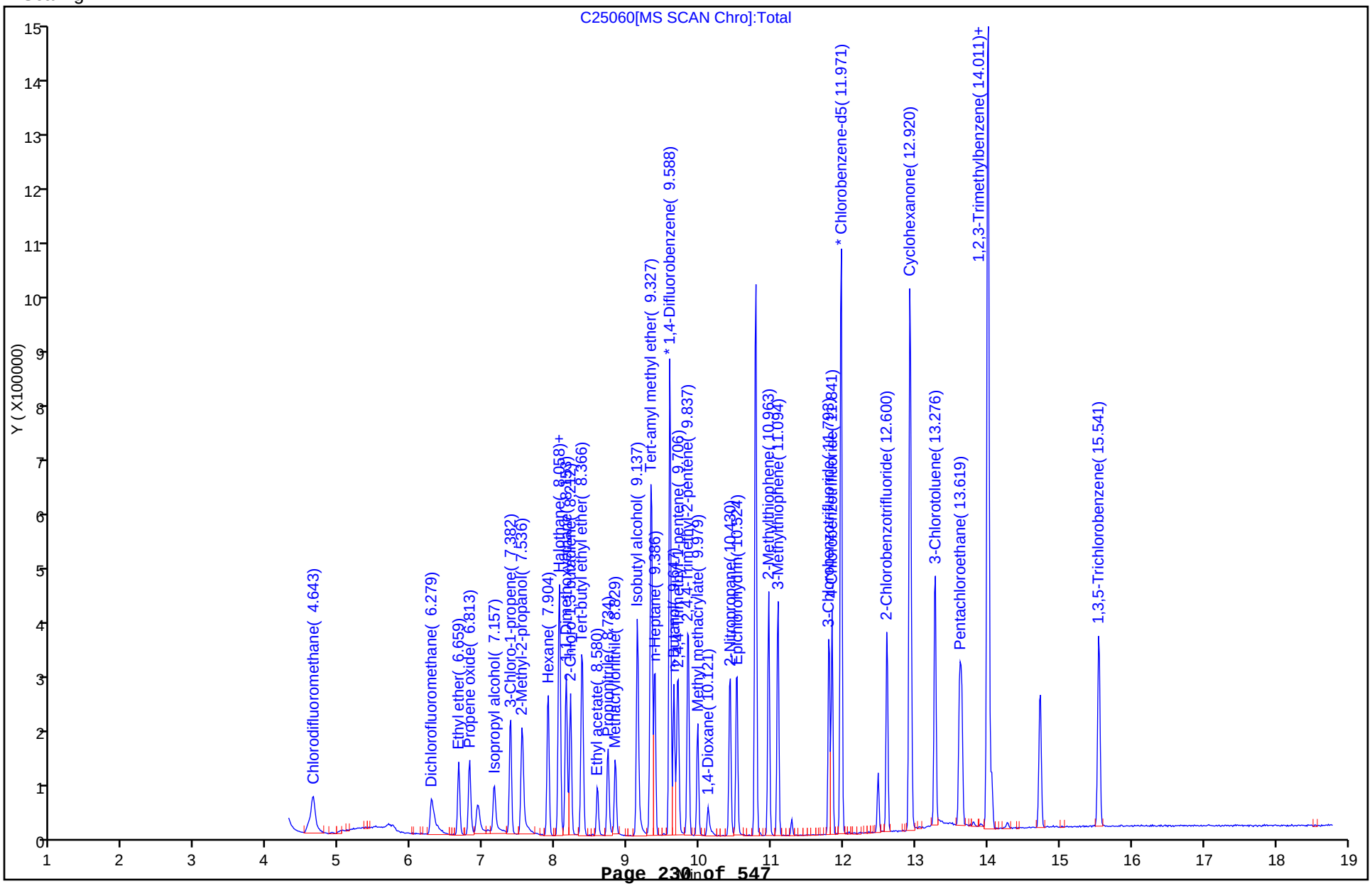
| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 9.588 | 9.588 | 0.0 | 96 | 676736 | 25.0 | |
| * 2 Chlorobenzene-d5 | 82 | 11.971 | 11.971 | 0.0 | 88 | 366679 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.011 | 14.011 | 0.0 | 98 | 323531 | 25.0 | |
| 11 Chlorodifluoromethane | 51 | 4.643 | 4.631 | 0.012 | 75 | 143189 | 0 | |
| 16 Dichlorofluoromethane | 67 | 6.279 | 6.279 | 0.0 | 77 | 187385 | 0 | |
| 18 Ethyl ether | 59 | 6.659 | 6.659 | -0.001 | 94 | 91904 | 9.87 | |
| 19 Propene oxide | 58 | 6.813 | 6.801 | 0.012 | 93 | 128413 | 0 | |
| 24 Isopropyl alcohol | 45 | 7.157 | 7.145 | 0.012 | 97 | 185886 | 0 | |
| 28 3-Chloro-1-propene | 41 | 7.382 | 7.370 | 0.012 | 83 | 157147 | 10.1 | |
| 31 2-Methyl-2-propanol | 59 | 7.536 | 7.536 | 0.0 | 98 | 334119 | 206.4 | |
| 35 Hexane | 57 | 7.904 | 7.904 | 0.0 | 93 | 138785 | 0 | |
| 135 Halothane | 117 | 8.058 | 8.046 | 0.012 | 0 | 47084 | 9.82 | |
| 36 Isopropyl ether | 45 | 8.058 | 8.058 | 0.0 | 94 | 339525 | 10.1 | |
| 38 1,1-Dimethoxyethane | 75 | 8.153 | 8.153 | 0.0 | 95 | 116642 | 0 | |
| 40 2-Chloro-1,3-butadiene | 53 | 8.212 | 8.212 | 0.0 | 89 | 163829 | 0 | |
| 41 Tert-butyl ethyl ether | 59 | 8.366 | 8.366 | 0.0 | 98 | 338709 | 10.0 | |
| 42 Ethyl acetate | 43 | 8.580 | 8.580 | 0.0 | 98 | 120853 | 0 | |
| 46 Propionitrile | 54 | 8.734 | 8.734 | 0.0 | 98 | 187788 | 102.3 | |
| 47 Methacrylonitrile | 41 | 8.829 | 8.829 | 0.0 | 95 | 77081 | 0 | |
| 53 Isobutyl alcohol | 43 | 9.137 | 9.137 | 0.0 | 91 | 281987 | 0 | |
| 56 Tert-amyl methyl ether | 73 | 9.327 | 9.327 | 0.0 | 95 | 289979 | 9.91 | |
| 59 n-Heptane | 43 | 9.386 | 9.374 | 0.012 | 88 | 145027 | 10.2 | |
| 60 n-Butanol | 56 | 9.647 | 9.647 | 0.0 | 79 | 175696 | 0 | |
| 141 2,4,4-Trimethyl-1-pentene | 55 | 9.694 | 9.694 | 0.0 | 0 | 71684 | 10.4 | |
| 140 2,4,4-Trimethyl-2-pentene | 97 | 9.848 | 9.849 | -0.001 | 0 | 181866 | 10.3 | |
| 63 Methyl methacrylate | 41 | 9.979 | 9.979 | 0.0 | 88 | 106974 | 9.49 | |
| 66 1,4-Dioxane | 88 | 10.121 | 10.121 | 0.0 | 95 | 47877 | 414.7 | |
| 70 2-Nitropropane | 43 | 10.430 | 10.418 | 0.012 | 99 | 232253 | 49.4 | |
| 71 Epichlorohydrin | 57 | 10.524 | 10.513 | 0.011 | 99 | 278257 | 0 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| 76 2-Methylthiophene | 97 | 10.963 | 10.963 | 0.0 | 98 | 299701 | 0 | |
| 78 3-Methylthiophene | 97 | 11.094 | 11.094 | 0.0 | 100 | 305221 | 0 | |
| 85 3-Chlorobenzotrifluoride | 180 | 11.805 | 11.805 | 0.0 | 92 | 129739 | 0 | |
| 86 4-Chlorobenzotrifluoride | 180 | 11.841 | 11.841 | 0.0 | 94 | 144124 | 0 | |
| 93 2-Chlorobenzotrifluoride | 180 | 12.611 | 12.600 | 0.011 | 95 | 129796 | 0 | |
| 96 Cyclohexanone | 55 | 12.932 | 12.932 | 0.0 | 93 | 193264 | 0 | |
| 104 3-Chlorotoluene | 126 | 13.276 | 13.276 | 0.0 | 98 | 106753 | 0 | |
| 108 Pentachloroethane | 167 | 13.643 | 13.643 | 0.0 | 83 | 51938 | 0 | |
| 112 1,2,3-Trimethylbenzene | 105 | 13.999 | 13.999 | 0.0 | 94 | 401129 | 0 | |
| 114 Dicyclopentadiene | 66 | 14.058 | 14.058 | 0.0 | 39 | 115120 | 0 | |
| 118 1,3,5-Trichlorobenzene | 180 | 15.541 | 15.541 | 0.0 | 94 | 151102 | 0 | |

Report Date: 10-Dec-2012 11:25:46 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25060.D | | |
| Injection Date: | 10-Dec-2012 02:28:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973C |
| Lims Batch ID: | 94870 | Lims Sample ID: | 18 |
| Operator ID: | NMD | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Y Scaling: | | | |



Report Date: 10-Dec-2012 11:25:48 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25061.D | | |
| Lims ID: | IC 10 | Client ID: | |
| Inject. Date: | 10-Dec-2012 02:53:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 4 |
| Sample ID: | IC 10 | | |
| Misc. Info.: | 480-0017365-019 | | |
| Operator: | NMD | Instrument ID: | HP5973C |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 39 |
| Lims Batch ID: | 94870 | Lims Sample ID: | 19 |
| Sublist: | chrom-C-8260*sub29 | | |
| Detector: | MS SCAN | | |

| | | | |
|---|---|---|---|
| Method: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C-8260.m | | |
| Last Update: | 10-Dec-2012 11:25:48 | Calib Date: | 10-Dec-2012 03:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25063.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK028 | | |

First Level Reviewer: HillL Date: 10-Dec-2012 10:59:30

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 9.588 | 9.588 | 0.0 | 96 | 668303 | 25.0 | |
| * 2 Chlorobenzene-d5 | 82 | 11.971 | 11.971 | 0.0 | 88 | 360764 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.011 | 14.011 | 0.0 | 94 | 316651 | 25.0 | |
| 11 Chlorodifluoromethane | 51 | 4.631 | 4.631 | 0.0 | 78 | 341044 | 0 | |
| 16 Dichlorofluoromethane | 67 | 6.279 | 6.279 | 0.0 | 83 | 452460 | 0 | |
| 18 Ethyl ether | 59 | 6.659 | 6.659 | 0.0 | 93 | 226608 | 24.6 | |
| 19 Propene oxide | 58 | 6.801 | 6.801 | 0.0 | 95 | 317126 | 0 | |
| 24 Isopropyl alcohol | 45 | 7.145 | 7.145 | 0.0 | 98 | 389099 | 0 | |
| 28 3-Chloro-1-propene | 41 | 7.370 | 7.370 | 0.0 | 85 | 373689 | 24.4 | |
| 31 2-Methyl-2-propanol | 59 | 7.536 | 7.536 | 0.0 | 98 | 809358 | 506.3 | |
| 35 Hexane | 57 | 7.904 | 7.904 | 0.0 | 94 | 326354 | 0 | |
| 135 Halothane | 117 | 8.046 | 8.046 | 0.0 | 0 | 110917 | 23.4 | |
| 36 Isopropyl ether | 45 | 8.058 | 8.058 | 0.0 | 93 | 816299 | 24.7 | |
| 38 1,1-Dimethoxyethane | 75 | 8.153 | 8.153 | 0.0 | 95 | 300848 | 0 | |
| 40 2-Chloro-1,3-butadiene | 53 | 8.212 | 8.212 | 0.0 | 89 | 398217 | 0 | |
| 41 Tert-butyl ethyl ether | 59 | 8.366 | 8.366 | 0.0 | 99 | 832842 | 25.0 | |
| 42 Ethyl acetate | 43 | 8.580 | 8.580 | 0.0 | 99 | 296859 | 0 | |
| 46 Propionitrile | 54 | 8.734 | 8.734 | 0.0 | 99 | 460469 | 253.9 | |
| 47 Methacrylonitrile | 41 | 8.829 | 8.829 | 0.0 | 94 | 189657 | 0 | |
| 53 Isobutyl alcohol | 43 | 9.137 | 9.137 | 0.0 | 91 | 682193 | 0 | |
| 56 Tert-amyl methyl ether | 73 | 9.327 | 9.327 | 0.0 | 96 | 712619 | 24.7 | |
| 59 n-Heptane | 43 | 9.374 | 9.374 | 0.0 | 88 | 335931 | 23.9 | |
| 60 n-Butanol | 56 | 9.647 | 9.647 | 0.0 | 88 | 452621 | 0 | |
| 141 2,4,4-Trimethyl-1-pentene | 55 | 9.694 | 9.694 | 0.0 | 0 | 159142 | 26.0 | |
| 140 2,4,4-Trimethyl-2-pentene | 97 | 9.849 | 9.849 | 0.0 | 0 | 419514 | 24.1 | |
| 63 Methyl methacrylate | 41 | 9.979 | 9.979 | 0.0 | 90 | 270643 | 24.3 | |
| 66 1,4-Dioxane | 88 | 10.121 | 10.121 | 0.0 | 98 | 116482 | 1025.5 | |
| 70 2-Nitropropane | 43 | 10.418 | 10.418 | 0.0 | 99 | 595386 | 129.4 | |
| 71 Epichlorohydrin | 57 | 10.513 | 10.513 | 0.0 | 99 | 692529 | 0 | |

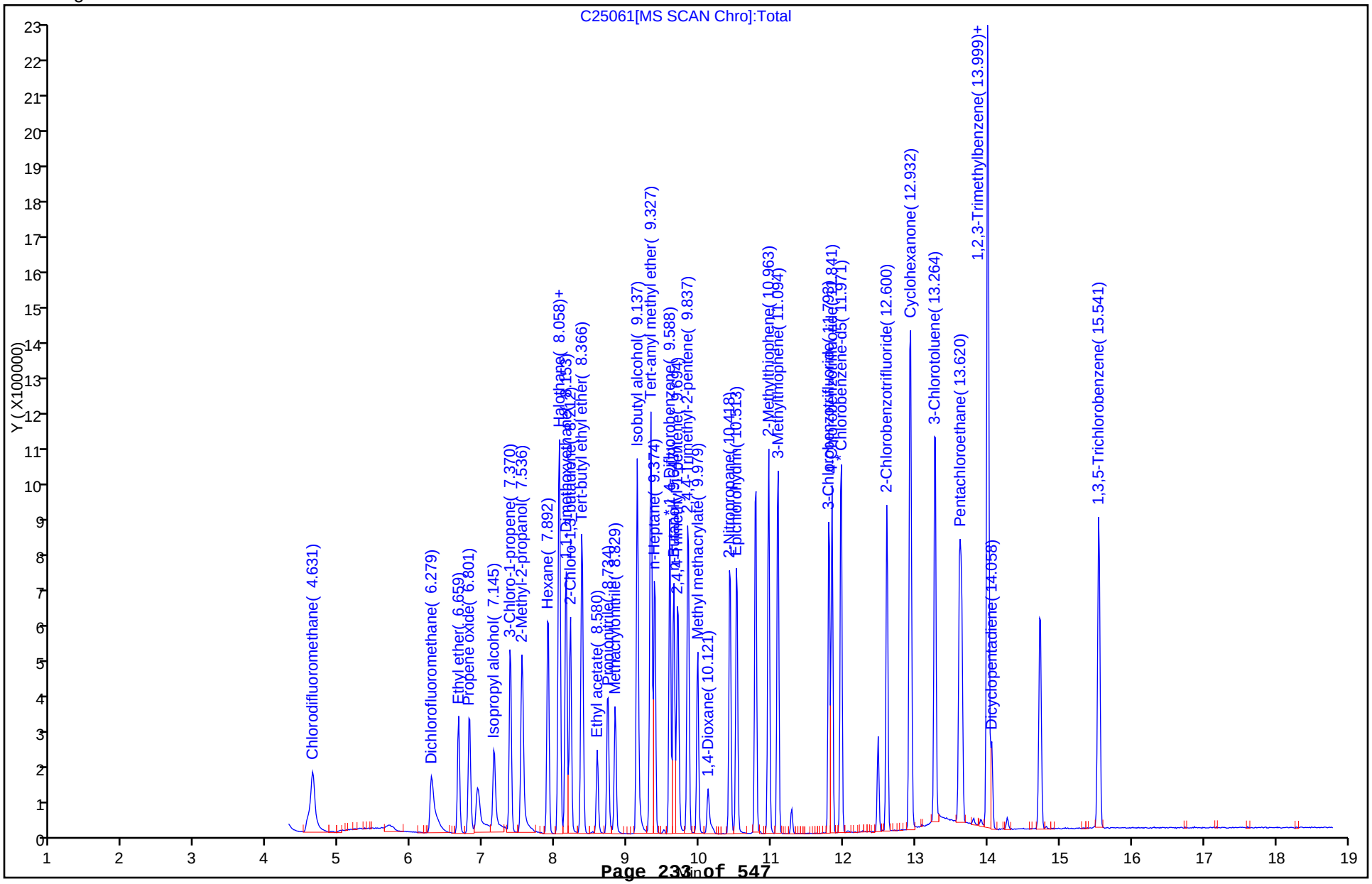
| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| 76 2-Methylthiophene | 97 | 10.963 | 10.963 | 0.0 | 98 | 735088 | 0 | |
| 78 3-Methylthiophene | 97 | 11.094 | 11.094 | 0.0 | 100 | 750645 | 0 | |
| 85 3-Chlorobenzotrifluoride | 180 | 11.805 | 11.805 | 0.0 | 94 | 314000 | 0 | |
| 86 4-Chlorobenzotrifluoride | 180 | 11.841 | 11.841 | 0.0 | 95 | 344597 | 0 | |
| 93 2-Chlorobenzotrifluoride | 180 | 12.600 | 12.600 | 0.0 | 93 | 317848 | 0 | |
| 96 Cyclohexanone | 55 | 12.932 | 12.932 | 0.0 | 94 | 461834 | 0 | |
| 104 3-Chlorotoluene | 126 | 13.276 | 13.276 | 0.0 | 98 | 259001 | 0 | |
| 108 Pentachloroethane | 167 | 13.643 | 13.643 | 0.0 | 86 | 131899 | 0 | |
| 112 1,2,3-Trimethylbenzene | 105 | 13.999 | 13.999 | 0.0 | 97 | 981987 | 0 | |
| 114 Dicyclopentadiene | 66 | 14.058 | 14.058 | 0.0 | 91 | 274174 | 0 | |
| 118 1,3,5-Trichlorobenzene | 180 | 15.541 | 15.541 | 0.0 | 94 | 371025 | 0 | |

Report Date: 10-Dec-2012 11:25:48 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25061.D | | |
| Injection Date: | 10-Dec-2012 02:53:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973C |
| Lims Batch ID: | 94870 | Lims Sample ID: | 19 |
| Operator ID: | NMD | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:



Report Date: 10-Dec-2012 11:25:50 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25062.D | | |
| Lims ID: | IC 11 | Client ID: | |
| Inject. Date: | 10-Dec-2012 03:18:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 5 |
| Sample ID: | IC 11 | | |
| Misc. Info.: | 480-0017365-020 | | |
| Operator: | NMD | Instrument ID: | HP5973C |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 40 |
| Lims Batch ID: | 94870 | Lims Sample ID: | 20 |
| Sublist: | chrom-C-8260*sub29 | | |
| Detector: | MS SCAN | | |

| | | | |
|---|---|---|---|
| Method: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C-8260.m | | |
| Last Update: | 10-Dec-2012 11:25:49 | Calib Date: | 10-Dec-2012 03:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25063.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK028 | | |

First Level Reviewer: HillL Date: 10-Dec-2012 10:59:44

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 9.588 | 9.588 | 0.0 | 96 | 664192 | 25.0 | |
| * 2 Chlorobenzene-d5 | 82 | 11.971 | 11.971 | 0.0 | 88 | 363855 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.011 | 14.011 | 0.0 | 87 | 320223 | 25.0 | |
| 11 Chlorodifluoromethane | 51 | 4.631 | 4.631 | 0.0 | 79 | 693986 | 0 | |
| 16 Dichlorofluoromethane | 67 | 6.279 | 6.279 | 0.0 | 83 | 901616 | 0 | |
| 18 Ethyl ether | 59 | 6.659 | 6.659 | 0.0 | 94 | 451778 | 49.4 | |
| 19 Propene oxide | 58 | 6.801 | 6.801 | 0.0 | 95 | 632470 | 0 | |
| 24 Isopropyl alcohol | 45 | 7.145 | 7.145 | 0.0 | 98 | 849137 | 0 | |
| 28 3-Chloro-1-propene | 41 | 7.370 | 7.370 | 0.0 | 85 | 741820 | 48.8 | |
| 31 2-Methyl-2-propanol | 59 | 7.536 | 7.536 | 0.0 | 98 | 1609434 | 1012.9 | |
| 35 Hexane | 57 | 7.892 | 7.904 | -0.012 | 94 | 663689 | 0 | |
| 135 Halothane | 117 | 8.046 | 8.046 | 0.0 | 0 | 227189 | 48.3 | |
| 36 Isopropyl ether | 45 | 8.058 | 8.058 | 0.0 | 93 | 1608576 | 48.9 | |
| 38 1,1-Dimethoxyethane | 75 | 8.153 | 8.153 | 0.0 | 97 | 603353 | 0 | |
| 40 2-Chloro-1,3-butadiene | 53 | 8.212 | 8.212 | 0.0 | 90 | 791748 | 0 | |
| 41 Tert-butyl ethyl ether | 59 | 8.366 | 8.366 | 0.0 | 99 | 1646474 | 49.7 | |
| 42 Ethyl acetate | 43 | 8.580 | 8.580 | 0.0 | 100 | 596027 | 0 | |
| 46 Propionitrile | 54 | 8.722 | 8.734 | -0.012 | 98 | 903585 | 501.4 | |
| 47 Methacrylonitrile | 41 | 8.829 | 8.829 | 0.0 | 95 | 375929 | 0 | |
| 53 Isobutyl alcohol | 43 | 9.137 | 9.137 | 0.0 | 92 | 1367569 | 0 | |
| 56 Tert-amyl methyl ether | 73 | 9.327 | 9.327 | 0.0 | 96 | 1434607 | 50.0 | |
| 59 n-Heptane | 43 | 9.374 | 9.374 | 0.0 | 88 | 672955 | 48.3 | |
| 60 n-Butanol | 56 | 9.647 | 9.647 | 0.0 | 82 | 942754 | 0 | |
| 141 2,4,4-Trimethyl-1-pentene | 55 | 9.694 | 9.694 | 0.0 | 0 | 268174 | 48.9 | |
| 140 2,4,4-Trimethyl-2-pentene | 97 | 9.837 | 9.849 | -0.012 | 0 | 802567 | 46.4 | |
| 63 Methyl methacrylate | 41 | 9.979 | 9.979 | 0.0 | 92 | 545572 | 49.3 | |
| 66 1,4-Dioxane | 88 | 10.121 | 10.121 | 0.0 | 99 | 239458 | 2090.2 | |
| 70 2-Nitropropane | 43 | 10.418 | 10.418 | 0.0 | 99 | 1211445 | 260.4 | |
| 71 Epichlorohydrin | 57 | 10.513 | 10.513 | 0.0 | 99 | 1387947 | 0 | |

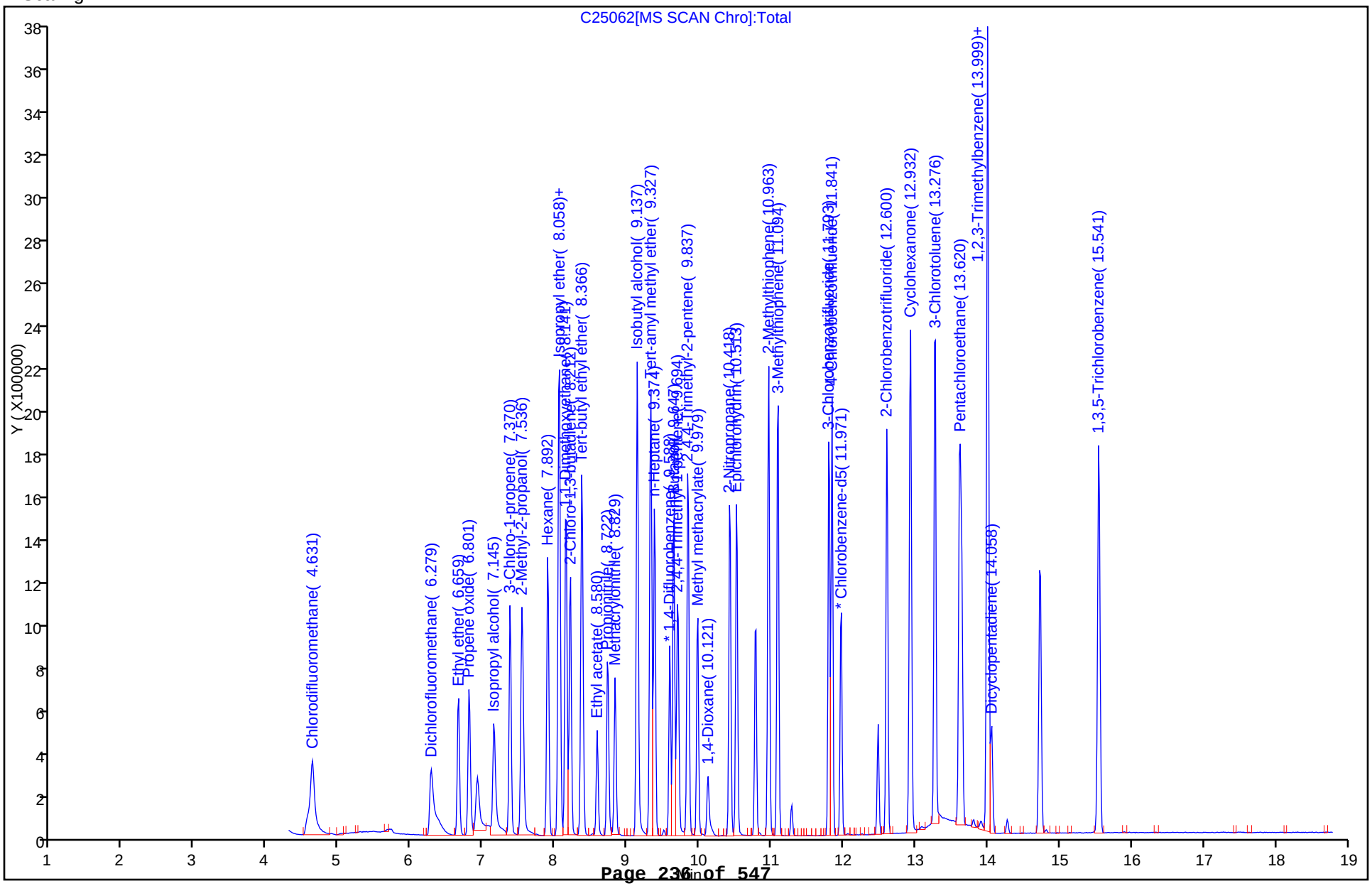
| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| 76 2-Methylthiophene | 97 | 10.963 | 10.963 | 0.0 | 98 | 1499877 | 0 | |
| 78 3-Methylthiophene | 97 | 11.094 | 11.094 | 0.0 | 100 | 1498105 | 0 | |
| 85 3-Chlorobenzotrifluoride | 180 | 11.805 | 11.805 | 0.0 | 94 | 643919 | 0 | |
| 86 4-Chlorobenzotrifluoride | 180 | 11.841 | 11.841 | 0.0 | 96 | 712042 | 0 | |
| 93 2-Chlorobenzotrifluoride | 180 | 12.600 | 12.600 | 0.0 | 93 | 651760 | 0 | |
| 96 Cyclohexanone | 55 | 12.932 | 12.932 | 0.0 | 95 | 906573 | 0 | |
| 104 3-Chlorotoluene | 126 | 13.276 | 13.276 | 0.0 | 98 | 533032 | 0 | |
| 108 Pentachloroethane | 167 | 13.643 | 13.643 | 0.0 | 87 | 264173 | 0 | |
| 112 1,2,3-Trimethylbenzene | 105 | 13.999 | 13.999 | 0.0 | 99 | 1998755 | 0 | |
| 114 Dicyclopentadiene | 66 | 14.058 | 14.058 | 0.0 | 97 | 593142 | 0 | |
| 118 1,3,5-Trichlorobenzene | 180 | 15.541 | 15.541 | 0.0 | 94 | 763782 | 0 | |

Report Date: 10-Dec-2012 11:25:50 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25062.D | | |
| Injection Date: | 10-Dec-2012 03:18:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973C |
| Lims Batch ID: | 94870 | Lims Sample ID: | 20 |
| Operator ID: | NMD | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:



Report Date: 10-Dec-2012 11:25:51 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25063.D | | |
| Lims ID: | IC 12 | Client ID: | |
| Inject. Date: | 10-Dec-2012 03:44:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 6 |
| Sample ID: | IC 12 | | |
| Misc. Info.: | 480-0017365-021 | | |
| Operator: | NMD | Instrument ID: | HP5973C |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 41 |
| Lims Batch ID: | 94870 | Lims Sample ID: | 21 |
| Sublist: | chrom-C-8260*sub29 | | |
| Detector: | MS SCAN | | |

| | | | |
|---|---|---|---|
| Method: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C-8260.m | | |
| Last Update: | 10-Dec-2012 11:25:51 | Calib Date: | 10-Dec-2012 03:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25063.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK028 | | |

First Level Reviewer: HillL Date: 10-Dec-2012 10:59:59

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 9.587 | 9.588 | -0.001 | 96 | 669353 | 25.0 | |
| * 2 Chlorobenzene-d5 | 82 | 11.959 | 11.971 | -0.012 | 92 | 363973 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.011 | 14.011 | 0.0 | 78 | 315220 | 25.0 | |
| 11 Chlorodifluoromethane | 51 | 4.642 | 4.631 | 0.011 | 79 | 1381825 | 0 | |
| 16 Dichlorofluoromethane | 67 | 6.279 | 6.279 | 0.0 | 83 | 1793652 | 0 | |
| 18 Ethyl ether | 59 | 6.658 | 6.659 | -0.001 | 95 | 895472 | 97.2 | |
| 19 Propene oxide | 58 | 6.813 | 6.801 | 0.012 | 95 | 1180086 | 0 | |
| 24 Isopropyl alcohol | 45 | 7.156 | 7.145 | 0.011 | 98 | 1612381 | 0 | |
| 28 3-Chloro-1-propene | 41 | 7.370 | 7.370 | 0.0 | 85 | 1471018 | 96.0 | |
| 31 2-Methyl-2-propanol | 59 | 7.548 | 7.536 | 0.012 | 98 | 2959346 | 1848.2 | |
| 35 Hexane | 57 | 7.904 | 7.904 | 0.0 | 94 | 1266352 | 0 | |
| 135 Halothane | 117 | 8.058 | 8.046 | 0.012 | 0 | 422567 | 89.1 | |
| 36 Isopropyl ether | 45 | 8.058 | 8.058 | 0.0 | 94 | 3102126 | 93.7 | |
| 38 1,1-Dimethoxyethane | 75 | 8.153 | 8.153 | 0.0 | 97 | 1155883 | 0 | |
| 40 2-Chloro-1,3-butadiene | 53 | 8.212 | 8.212 | 0.0 | 89 | 1612919 | 0 | |
| 41 Tert-butyl ethyl ether | 59 | 8.366 | 8.366 | 0.0 | 99 | 3037579 | 91.1 | |
| 42 Ethyl acetate | 43 | 8.579 | 8.580 | -0.001 | 100 | 1173776 | 0 | |
| 46 Propionitrile | 54 | 8.734 | 8.734 | 0.0 | 98 | 1733921 | 954.7 | |
| 47 Methacrylonitrile | 41 | 8.829 | 8.829 | -0.001 | 94 | 726777 | 0 | |
| 53 Isobutyl alcohol | 43 | 9.137 | 9.137 | 0.0 | 93 | 2621526 | 0 | |
| 56 Tert-amyl methyl ether | 73 | 9.327 | 9.327 | 0.0 | 96 | 2727706 | 94.3 | |
| 59 n-Heptane | 43 | 9.374 | 9.374 | 0.0 | 88 | 1318772 | 93.9 | |
| 60 n-Butanol | 56 | 9.647 | 9.647 | 0.0 | 88 | 1797023 | 0 | |
| 141 2,4,4-Trimethyl-1-pentene | 55 | 9.694 | 9.694 | 0.0 | 0 | 438634 | 100.4 | |
| 140 2,4,4-Trimethyl-2-pentene | 97 | 9.848 | 9.849 | -0.001 | 0 | 1429418 | 82.0 | |
| 63 Methyl methacrylate | 41 | 9.979 | 9.979 | 0.0 | 92 | 1072942 | 96.2 | |
| 66 1,4-Dioxane | 88 | 10.121 | 10.121 | 0.0 | 99 | 471537 | 4114.6 | |
| 70 2-Nitropropane | 43 | 10.418 | 10.418 | 0.0 | 99 | 2380310 | 519.9 | |
| 71 Epichlorohydrin | 57 | 10.512 | 10.513 | -0.001 | 99 | 2650348 | 0 | |

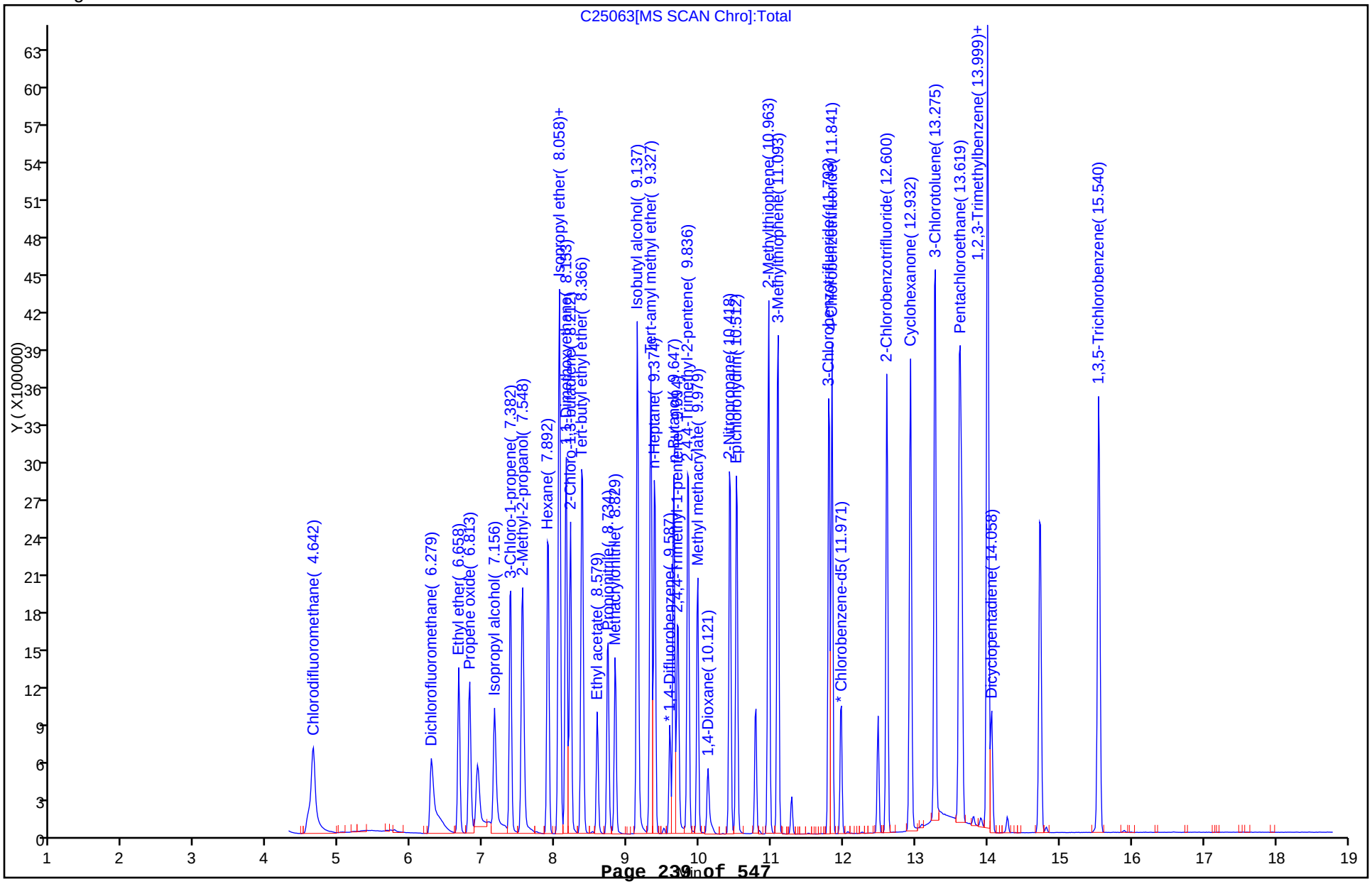
| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| 76 2-Methylthiophene | 97 | 10.963 | 10.963 | 0.0 | 98 | 2927696 | 0 | |
| 78 3-Methylthiophene | 97 | 11.093 | 11.094 | -0.001 | 100 | 2928633 | 0 | |
| 85 3-Chlorobenzotrifluoride | 180 | 11.805 | 11.805 | 0.0 | 94 | 1247755 | 0 | |
| 86 4-Chlorobenzotrifluoride | 180 | 11.841 | 11.841 | 0.0 | 96 | 1379490 | 0 | |
| 93 2-Chlorobenzotrifluoride | 180 | 12.600 | 12.600 | 0.0 | 93 | 1265036 | 0 | |
| 96 Cyclohexanone | 55 | 12.932 | 12.932 | 0.0 | 95 | 1566727 | 0 | |
| 104 3-Chlorotoluene | 126 | 13.275 | 13.276 | -0.001 | 98 | 1047004 | 0 | |
| 108 Pentachloroethane | 167 | 13.643 | 13.643 | 0.0 | 89 | 534792 | 0 | |
| 112 1,2,3-Trimethylbenzene | 105 | 13.999 | 13.999 | 0.0 | 99 | 3878463 | 0 | |
| 114 Dicyclopentadiene | 66 | 14.058 | 14.058 | 0.0 | 80 | 1079600 | 0 | |
| 118 1,3,5-Trichlorobenzene | 180 | 15.540 | 15.541 | -0.001 | 94 | 1484358 | 0 | |

Report Date: 10-Dec-2012 11:25:51 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25063.D | | |
| Injection Date: | 10-Dec-2012 03:44:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973C |
| Lims Batch ID: | 94870 | Lims Sample ID: | 21 |
| Operator ID: | NMD | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:



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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1 Analy Batch No.: 95189

SDG No.:

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

Calibration Start Date: 12/11/2012 15:52 Calibration End Date: 12/11/2012 18:24 Calibration ID: 11592

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 480-95189/3 | F4222.D |
| Level 2 | STD2 480-95189/4 | F4223.D |
| Level 3 | STD3 480-95189/5 | F4224.D |
| Level 4 | STD4 480-95189/6 | F4225.D |
| Level 5 | STD5 480-95189/7 | F4226.D |
| Level 6 | STD6 480-95189/8 | F4227.D |
| Level 7 | STD7 480-95189/9 | F4228.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Dichlorodifluoromethane | 0.2302<br>0.3028 | 0.2532<br>0.3023 | 0.2190 | 0.2867 | 0.2472 | Ave | | 0.2631 | | | 0.1000 | 13.0 | | 15.0 | | | |
| Chloromethane | 0.3209<br>0.2866 | 0.3130<br>0.2763 | 0.2799 | 0.3110 | 0.3043 | Ave | | 0.2989 | | | 0.0500 | 5.9 | | 15.0 | | | |
| Vinyl chloride | 0.2438<br>0.2913 | 0.2937<br>0.2797 | 0.2558 | 0.3042 | 0.2861 | Ave | | 0.2792 | | | 0.1000 | 7.8 | | 15.0 | | | |
| Bromomethane | 0.2306<br>0.0938 | 0.0963<br>0.1056 | 0.0877 | 0.0917 | 0.0953 | Lin | -0.189 | 0.1042 | | | 0.0500 | | | | 0.9960 | | 0.9900 |
| Chloroethane | 0.1618<br>0.0961 | 0.0816<br>0.1062 | 0.0853 | 0.0945 | 0.0964 | Lin1 | 0.0201 | 0.1009 | | | 0.1000 | | | | 0.9930 | | 0.9900 |
| Trichlorofluoromethane | 0.3154<br>0.3449 | 0.3134<br>0.3580 | 0.2711 | 0.3464 | 0.3082 | Ave | | 0.3225 | | | 0.1000 | 9.2 | | 15.0 | | | |
| Acrolein | 0.0685<br>0.0632 | 0.0649<br>0.0591 | 0.0615 | 0.0624 | 0.0617 | Ave | | 0.0631 | | | | 4.7 | | 15.0 | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.2324<br>0.3124 | 0.2660<br>0.3301 | 0.2599 | 0.2894 | 0.2908 | Ave | | 0.2830 | | | 0.1000 | 12.0 | | 15.0 | | | |
| 1,1-Dichloroethene | 0.2796<br>0.3378 | 0.3303<br>0.3358 | 0.2896 | 0.3412 | 0.3268 | Ave | | 0.3202 | | | 0.1000 | 7.8 | | 15.0 | | | |
| Acetone | 0.1837<br>0.1424 | 0.1338<br>0.1316 | 0.1306 | 0.1362 | 0.1309 | Ave | | 0.1413 | | | 0.0500 | 14.0 | | 15.0 | | | |
| Iodomethane | 0.4937<br>0.5207 | 0.4867<br>0.5328 | 0.4879 | 0.5024 | 0.5204 | Ave | | 0.5064 | | | | 3.6 | | 15.0 | | | |
| Carbon disulfide | 0.8949<br>1.0321 | 0.9369<br>1.0733 | 0.9072 | 0.9907 | 1.0152 | Ave | | 0.9786 | | | 0.1000 | 6.9 | | 15.0 | | | |
| Methyl acetate | 0.5269<br>0.4986 | 0.5176<br>0.4678 | 0.4844 | 0.4843 | 0.4883 | Ave | | 0.4954 | | | 0.1000 | 4.2 | | 15.0 | | | |
| Acetonitrile | 0.0372<br>0.0317 | 0.0329<br>0.0301 | 0.0308 | 0.0319 | 0.0309 | Ave | | 0.0322 | | | | 7.3 | | 15.0 | | | |

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1 Analy Batch No.: 95189

SDG No.:

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

Calibration Start Date: 12/11/2012 15:52 Calibration End Date: 12/11/2012 18:24 Calibration ID: 11592

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Methylene Chloride | 0.5443<br>0.3900 | 0.5098<br>0.3759 | 0.3981 | 0.4121 | 0.3956 | Ave | | 0.4322 | | | 0.1000 | 15.0 | | 15.0 | | | |
| Methyl tert-butyl ether | 0.9897<br>1.0725 | 1.0282<br>1.0444 | 0.9954 | 1.0404 | 1.0510 | Ave | | 1.0317 | | | 0.1000 | 2.9 | | 15.0 | | | |
| trans-1,2-Dichloroethene | 0.3607<br>0.3950 | 0.4073<br>0.3845 | 0.3541 | 0.4025 | 0.3933 | Ave | | 0.3853 | | | 0.1000 | 5.3 | | 15.0 | | | |
| Acrylonitrile | 0.1716<br>0.1848 | 0.1781<br>0.1721 | 0.1707 | 0.1776 | 0.1745 | Ave | | 0.1756 | | | | 2.8 | | 15.0 | | | |
| Vinyl acetate | 0.7486<br>0.7207 | 0.7779<br>0.6456 | 0.7361 | 0.7350 | 0.7288 | Ave | | 0.7275 | | | | 5.6 | | 15.0 | | | |
| 1,1-Dichloroethane | 0.6327<br>0.6196 | 0.6656<br>0.5912 | 0.5842 | 0.6446 | 0.6292 | Ave | | 0.6239 | | | 0.2000 | 4.6 | | 15.0 | | | |
| 2-Butanone (MEK) | 0.2428<br>0.2409 | 0.2387<br>0.2173 | 0.2289 | 0.2337 | 0.2269 | Ave | | 0.2327 | | | 0.0500 | 3.9 | | 15.0 | | | |
| 2,2-Dichloropropane | 0.4511<br>0.4942 | 0.5050<br>0.4807 | 0.4366 | 0.4988 | 0.4888 | Ave | | 0.4793 | | | | 5.4 | | 15.0 | | | |
| cis-1,2-Dichloroethene | 0.4178<br>0.4270 | 0.4481<br>0.4122 | 0.3905 | 0.4240 | 0.4303 | Ave | | 0.4214 | | | 0.1000 | 4.2 | | 15.0 | | | |
| Chlorobromomethane | 0.1996<br>0.2297 | 0.2323<br>0.2230 | 0.2103 | 0.2260 | 0.2273 | Ave | | 0.2212 | | | | 5.4 | | 15.0 | | | |
| Tetrahydrofuran | 0.1584<br>0.1621 | 0.1587<br>0.1467 | 0.1505 | 0.1563 | 0.1521 | Ave | | 0.1550 | | | | 3.5 | | 15.0 | | | |
| Chloroform | 0.6115<br>0.6128 | 0.6272<br>0.5916 | 0.5630 | 0.6137 | 0.6139 | Ave | | 0.6048 | | | 0.2000 | 3.5 | | 15.0 | | | |
| 1,1,1-Trichloroethane | 0.4818<br>0.5432 | 0.5159<br>0.5394 | 0.4639 | 0.5385 | 0.5353 | Ave | | 0.5169 | | | 0.1000 | 6.1 | | 15.0 | | | |
| Cyclohexane | 0.5026<br>0.6425 | 0.5484<br>0.6654 | 0.5312 | 0.5929 | 0.6006 | Ave | | 0.5834 | | | 0.1000 | 10.0 | | 15.0 | | | |
| 1,1-Dichloropropene | 0.3957<br>0.4892 | 0.4656<br>0.4829 | 0.4097 | 0.4858 | 0.4736 | Ave | | 0.4575 | | | | 8.4 | | 15.0 | | | |
| Carbon tetrachloride | 0.3846<br>0.5058 | 0.4472<br>0.5062 | 0.4004 | 0.4743 | 0.4724 | Ave | | 0.4558 | | | 0.1000 | 11.0 | | 15.0 | | | |
| Benzene | 1.4265<br>1.4652 | 1.4900<br>1.4164 | 1.3349 | 1.4641 | 1.4677 | Ave | | 1.4378 | | | 0.5000 | 3.6 | | 15.0 | | | |
| 1,2-Dichloroethane | 0.4071<br>0.4688 | 0.4762<br>0.4444 | 0.4405 | 0.4594 | 0.4641 | Ave | | 0.4515 | | | 0.1000 | 5.2 | | 15.0 | | | |
| Trichloroethene | 0.3750<br>0.3989 | 0.4050<br>0.3958 | 0.3585 | 0.3921 | 0.3922 | Ave | | 0.3882 | | | 0.2000 | 4.1 | | 15.0 | | | |
| Methylcyclohexane | 0.4715<br>0.6791 | 0.5546<br>0.7109 | 0.5427 | 0.6109 | 0.6225 | Ave | | 0.5989 | | | 0.1000 | 14.0 | | 15.0 | | | |

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1 Analy Batch No.: 95189

SDG No.:

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

Calibration Start Date: 12/11/2012 15:52 Calibration End Date: 12/11/2012 18:24 Calibration ID: 11592

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,2-Dichloropropane | 0.3280<br>0.3730 | 0.3756<br>0.3648 | 0.3384 | 0.3649 | 0.3661 | Ave | | 0.3587 | | | 0.1000 | 5.1 | | 15.0 | | | |
| Dibromomethane | 0.1915<br>0.2314 | 0.2177<br>0.2216 | 0.2062 | 0.2179 | 0.2250 | Ave | | 0.2159 | | | | 6.1 | | 15.0 | | | |
| Dichlorobromomethane | 0.3966<br>0.4702 | 0.4319<br>0.4639 | 0.4009 | 0.4311 | 0.4532 | Ave | | 0.4354 | | | 0.1000 | 6.7 | | 15.0 | | | |
| 2-Chloroethyl vinyl ether | 0.2250<br>0.2687 | 0.2564<br>0.2531 | 0.2496 | 0.2571 | 0.2622 | Ave | | 0.2532 | | | | 5.5 | | 15.0 | | | |
| cis-1,3-Dichloropropene | 0.5091<br>0.5971 | 0.5621<br>0.5857 | 0.5188 | 0.5600 | 0.5796 | Ave | | 0.5589 | | | 0.2000 | 6.0 | | 15.0 | | | |
| 4-Methyl-2-pentanone (MIBK) | 1.0450<br>1.0752 | 1.0844<br>0.9586 | 1.0240 | 1.0573 | 1.0181 | Ave | | 1.0375 | | | 0.0500 | 4.1 | | 15.0 | | | |
| Toluene | 2.2013<br>2.2801 | 2.3176<br>2.2180 | 2.0556 | 2.2341 | 2.2311 | Ave | | 2.2197 | | | 0.4000 | 3.7 | | 15.0 | | | |
| Ethyl methacrylate | 1.0033<br>1.2630 | 1.1842<br>1.2278 | 1.0946 | 1.1609 | 1.1846 | Ave | | 1.1598 | | | | 7.5 | | 15.0 | | | |
| trans-1,3-Dichloropropene | 1.0529<br>1.2462 | 1.1366<br>1.2009 | 1.0791 | 1.1582 | 1.1855 | Ave | | 1.1514 | | | 0.1000 | 5.9 | | 15.0 | | | |
| 1,1,2-Trichloroethane | 0.5564<br>0.6503 | 0.6204<br>0.6260 | 0.5773 | 0.6211 | 0.6200 | Ave | | 0.6102 | | | 0.1000 | 5.2 | | 15.0 | | | |
| Tetrachloroethene | 0.9138<br>1.0696 | 1.0407<br>1.0622 | 0.9360 | 1.0460 | 1.0298 | Ave | | 1.0140 | | | 0.1000 | 6.2 | | 15.0 | | | |
| 1,3-Dichloropropane | 1.1895<br>1.2996 | 1.3094<br>1.2251 | 1.1740 | 1.2746 | 1.2811 | Ave | | 1.2505 | | | | 4.3 | | 15.0 | | | |
| 2-Hexanone | 0.7690<br>0.7979 | 0.7876<br>0.7087 | 0.7489 | 0.7834 | 0.7469 | Ave | | 0.7632 | | | 0.0500 | 4.0 | | 15.0 | | | |
| Chlorodibromomethane | 0.7377<br>0.9817 | 0.7812<br>0.9755 | 0.7691 | 0.8471 | 0.9080 | Ave | | 0.8572 | | | 0.1000 | 12.0 | | 15.0 | | | |
| Ethylene Dibromide | 0.7684<br>0.9235 | 0.8790<br>0.8847 | 0.8095 | 0.8756 | 0.8777 | Ave | | 0.8598 | | | 0.1000 | 6.1 | | 15.0 | | | |
| Chlorobenzene | 2.6283<br>2.7495 | 2.7614<br>2.6712 | 2.4832 | 2.6747 | 2.7034 | Ave | | 2.6674 | | | 0.5000 | 3.5 | | 15.0 | | | |
| Ethylbenzene | 4.0698<br>4.1833 | 4.2898<br>4.0103 | 3.8155 | 4.2306 | 4.1625 | Ave | | 4.1088 | | | 0.1000 | 3.9 | | 15.0 | | | |
| 1,1,1,2-Tetrachloroethane | 0.8411<br>0.9766 | 0.9096<br>0.9537 | 0.8347 | 0.9265 | 0.9511 | Ave | | 0.9133 | | | | 6.1 | | 15.0 | | | |
| m-Xylene & p-Xylene | 1.6783<br>1.7775 | 1.8283<br>1.6894 | 1.6185 | 1.8012 | 1.7572 | Ave | | 1.7358 | | | 0.1000 | 4.4 | | 15.0 | | | |
| o-Xylene | 1.6424<br>1.7588 | 1.7630<br>1.6823 | 1.5726 | 1.7459 | 1.7276 | Ave | | 1.6989 | | | 0.3000 | 4.2 | | 15.0 | | | |

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1 Analy Batch No.: 95189

SDG No.:

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

Calibration Start Date: 12/11/2012 15:52 Calibration End Date: 12/11/2012 18:24 Calibration ID: 11592

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Styrene | 2.6761<br>2.9498 | 2.8766<br>2.8306 | 2.6437 | 2.9107 | 2.8999 | Ave | | 2.8268 | | | 0.3000 | 4.2 | | 15.0 | | | |
| Bromoform | 0.4237<br>0.6979 | 0.5002<br>0.6905 | 0.5040 | 0.5610 | 0.6239 | Lin1 | -1.026 | 0.6867 | | | 0.1000 | | | | 0.9980 | | 0.9900 |
| Isopropylbenzene | 3.6492<br>3.9149 | 3.9916<br>3.8298 | 3.5449 | 3.8864 | 3.8828 | Ave | | 3.8142 | | | 0.1000 | 4.2 | | 15.0 | | | |
| 1,1,2,2-Tetrachloroethane | 0.8888<br>1.0458 | 0.9796<br>0.9813 | 0.9463 | 0.9838 | 0.9984 | Ave | | 0.9749 | | | 0.3000 | 4.9 | | 15.0 | | | |
| Bromobenzene | 1.0448<br>1.1181 | 1.1415<br>1.0884 | 1.0395 | 1.0945 | 1.1150 | Ave | | 1.0917 | | | | 3.5 | | 15.0 | | | |
| N-Propylbenzene | 4.3221<br>4.4512 | 4.6757<br>4.1139 | 4.1840 | 4.5636 | 4.4735 | Ave | | 4.3977 | | | | 4.6 | | 15.0 | | | |
| trans-1,4-Dichloro-2-butene | 0.2415<br>0.2759 | 0.2659<br>0.2529 | 0.2554 | 0.2636 | 0.2669 | Ave | | 0.2603 | | | | 4.3 | | 15.0 | | | |
| 1,2,3-Trichloropropane | 0.2755<br>0.3319 | 0.3315<br>0.3020 | 0.3056 | 0.3253 | 0.3246 | Ave | | 0.3138 | | | | 6.6 | | 15.0 | | | |
| 2-Chlorotoluene | 1.0244<br>1.0663 | 1.0970<br>1.0447 | 0.9607 | 1.0670 | 1.0457 | Ave | | 1.0437 | | | | 4.1 | | 15.0 | | | |
| 1,3,5-Trimethylbenzene | 3.1767<br>3.3379 | 3.4439<br>3.2160 | 3.0511 | 3.3270 | 3.3181 | Ave | | 3.2672 | | | | 3.9 | | 15.0 | | | |
| 4-Chlorotoluene | 1.0444<br>1.1002 | 1.1046<br>1.0837 | 1.0037 | 1.0901 | 1.0952 | Ave | | 1.0746 | | | | 3.4 | | 15.0 | | | |
| tert-Butylbenzene | 0.7547<br>0.8332 | 0.8086<br>0.8193 | 0.7315 | 0.8103 | 0.8091 | Ave | | 0.7952 | | | | 4.7 | | 15.0 | | | |
| 1,2,4-Trimethylbenzene | 3.2388<br>3.3480 | 3.4349<br>3.2146 | 3.0708 | 3.3368 | 3.3305 | Ave | | 3.2820 | | | | 3.6 | | 15.0 | | | |
| sec-Butylbenzene | 3.8206<br>4.3002 | 4.3231<br>4.1357 | 3.8467 | 4.2647 | 4.2448 | Ave | | 4.1337 | | | | 5.2 | | 15.0 | | | |
| 4-Isopropyltoluene | 3.5405<br>3.9937 | 3.9791<br>3.8127 | 3.5735 | 3.9762 | 3.9426 | Ave | | 3.8312 | | | | 5.1 | | 15.0 | | | |
| 1,3-Dichlorobenzene | 2.0322<br>2.1207 | 2.2004<br>2.0494 | 1.9854 | 2.0999 | 2.0983 | Ave | | 2.0837 | | | 0.6000 | 3.3 | | 15.0 | | | |
| 1,4-Dichlorobenzene | 2.1104<br>2.1646 | 2.2108<br>2.0836 | 2.0081 | 2.1233 | 2.1063 | Ave | | 2.1153 | | | 0.5000 | 3.0 | | 15.0 | | | |
| n-Butylbenzene | 2.7472<br>3.2053 | 3.1760<br>3.0758 | 2.8305 | 3.1789 | 3.0874 | Ave | | 3.0430 | | | | 6.0 | | 15.0 | | | |
| 1,2-Dichlorobenzene | 1.9375<br>2.0568 | 2.0978<br>1.9744 | 1.8836 | 2.0074 | 2.0145 | Ave | | 1.9960 | | | 0.4000 | 3.6 | | 15.0 | | | |
| 1,2-Dibromo-3-Chloropropane | 0.1366<br>0.2085 | 0.1735<br>0.1896 | 0.1551 | 0.1780 | 0.1869 | Ave | | 0.1755 | | | 0.0500 | 13.0 | | 15.0 | | | |

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1 Analy Batch No.: 95189

SDG No.:

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

Calibration Start Date: 12/11/2012 15:52 Calibration End Date: 12/11/2012 18:24 Calibration ID: 11592

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| 1,2,4-Trichlorobenzene | 1.1322<br>1.4252 | 1.3053<br>1.3132 | 1.2725 | 1.3687 | 1.3527 | Ave | | 1.3100 | | | 0.2000 | 7.1 | | 15.0 | | | |
| Hexachlorobutadiene | 0.6007<br>0.7462 | 0.7107<br>0.7006 | 0.6466 | 0.7183 | 0.7135 | Ave | | 0.6909 | | | | 7.2 | | 15.0 | | | |
| Naphthalene | 3.6750<br>3.9533 | 3.8960<br>3.3845 | 3.5388 | 3.7567 | 3.6947 | Ave | | 3.6999 | | | | 5.3 | | 15.0 | | | |
| 1,2,3-Trichlorobenzene | 1.0138<br>1.3102 | 1.1974<br>1.1298 | 1.1504 | 1.2311 | 1.2369 | Ave | | 1.1814 | | | | 8.0 | | 15.0 | | | |
| 1,2-Dichloroethane-d4 (Surr) | <br>0.1784 | 0.1960<br>0.1805 | 0.1908 | 0.1928 | 0.1492 | Ave | | 0.1813 | | | | 9.5 | | 15.0 | | | |
| Toluene-d8 (Surr) | <br>2.9962 | 3.2282<br>3.0539 | 3.0375 | 3.1926 | 2.5931 | Ave | | 3.0169 | | | | 7.5 | | 15.0 | | | |
| 4-Bromofluorobenzene (Surr) | <br>1.0186 | 1.2073<br>1.0589 | 1.1127 | 1.1214 | 0.8657 | Ave | | 1.0641 | | | | 11.0 | | 15.0 | | | |

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1 Analy Batch No.: 95189

SDG No.:

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

Calibration Start Date: 12/11/2012 15:52 Calibration End Date: 12/11/2012 18:24 Calibration ID: 11592

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD1 480-95189/3 | F4222.D |
| Level 2 | STD2 480-95189/4 | F4223.D |
| Level 3 | STD3 480-95189/5 | F4224.D |
| Level 4 | STD4 480-95189/6 | F4225.D |
| Level 5 | STD5 480-95189/7 | F4226.D |
| Level 6 | STD6 480-95189/8 | F4227.D |
| Level 7 | STD7 480-95189/9 | F4228.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/KG) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Dichlorodifluoromethane | DFB | Ave | 3831<br>220482 | 8560<br>442832 | 15639 | 40013 | 89528 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| Chloromethane | DFB | Ave | 5340<br>208669 | 10583<br>404831 | 19985 | 43412 | 110221 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| Vinyl chloride | DFB | Ave | 4057<br>212089 | 9929<br>409766 | 18264 | 42458 | 103624 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| Bromomethane | DFB | Lin | 3838<br>68321 | 3255<br>154747 | 6263 | 12806 | 34525 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| Chloroethane | DFB | Lin1 | 2692<br>69942 | 2759<br>155633 | 6090 | 13192 | 34925 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| Trichlorofluoromethane | DFB | Ave | 5249<br>251097 | 10594<br>524435 | 19353 | 48354 | 111649 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| Acrolein | DFB | Ave | 22798<br>920911 | 43908<br>1730426 | 87867 | 174122 | 447293 | 50.0<br>2000 | 100<br>4000 | 200 | 400 | 1000 |
| 1,1,2-Trichloro-1,2,2-trifluoroetha ne | DFB | Ave | 3867<br>227457 | 8993<br>483573 | 18556 | 40401 | 105317 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| 1,1-Dichloroethene | DFB | Ave | 4653<br>245946 | 11167<br>492026 | 20680 | 47633 | 118357 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| Acetone | DFB | Ave | 15288<br>518462 | 22618<br>963963 | 46619 | 95080 | 237145 | 12.5<br>500 | 25.0<br>1000 | 50.0 | 100 | 250 |
| Iodomethane | DFB | Ave | 8216<br>379111 | 16455<br>780591 | 34835 | 70130 | 188494 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| Carbon disulfide | DFB | Ave | 14892<br>751453 | 31677<br>1572415 | 64772 | 138281 | 367705 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| Methyl acetate | DFB | Ave | 8767<br>363032 | 17500<br>685397 | 34589 | 67602 | 176863 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| Acetonitrile | DFB | Ave | 24741<br>922946 | 44520<br>1763438 | 87959 | 178378 | 448221 | 100<br>4000 | 200<br>8000 | 400 | 800 | 2000 |
| Methylene Chloride | DFB | Ave | 9057<br>283952 | 17234<br>550644 | 28427 | 57518 | 143307 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |

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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1 Analy Batch No.: 95189

SDG No.:

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

Calibration Start Date: 12/11/2012 15:52 Calibration End Date: 12/11/2012 18:24 Calibration ID: 11592

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/KG) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Methyl tert-butyl ether | DFB | Ave | 16468<br>780914 | 34762<br>1530040 | 71073 | 145221 | 380705 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| trans-1,2-Dichloroethene | DFB | Ave | 6002<br>287594 | 13771<br>563251 | 25285 | 56176 | 142466 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| Acrylonitrile | DFB | Ave | 14274<br>672705 | 30114<br>1260675 | 60923 | 123949 | 315996 | 12.5<br>500 | 25.0<br>1000 | 50.0 | 100 | 250 |
| Vinyl acetate | DFB | Ave | 62281<br>2623607 | 131493<br>4728850 | 262794 | 512991 | 1319958 | 12.5<br>500 | 25.0<br>1000 | 50.0 | 100 | 250 |
| 1,1-Dichloroethane | DFB | Ave | 10529<br>451109 | 22504<br>866184 | 41709 | 89977 | 227900 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| 2-Butanone (MEK) | DFB | Ave | 20201<br>877074 | 40351<br>1591481 | 81708 | 163094 | 410998 | 12.5<br>500 | 25.0<br>1000 | 50.0 | 100 | 250 |
| 2,2-Dichloropropane | DFB | Ave | 7507<br>359844 | 17075<br>704298 | 31172 | 69618 | 177059 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| cis-1,2-Dichloroethene | DFB | Ave | 6952<br>310879 | 15149<br>603855 | 27882 | 59181 | 155856 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| Chlorobromomethane | DFB | Ave | 3321<br>167261 | 7854<br>326758 | 15015 | 31546 | 82336 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| Tetrahydrofuran | DFB | Ave | 13175<br>590290 | 26829<br>1074811 | 53719 | 109087 | 275507 | 12.5<br>500 | 25.0<br>1000 | 50.0 | 100 | 250 |
| Chloroform | DFB | Ave | 10176<br>446152 | 21204<br>866684 | 40198 | 85670 | 222379 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| 1,1,1-Trichloroethane | DFB | Ave | 8017<br>395542 | 17442<br>790181 | 33122 | 75164 | 193886 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| Cyclohexane | DFB | Ave | 8364<br>467816 | 18541<br>974753 | 37929 | 82765 | 217552 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| 1,1-Dichloropropene | DFB | Ave | 6584<br>356227 | 15743<br>707497 | 29255 | 67804 | 171545 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| Carbon tetrachloride | DFB | Ave | 6400<br>368251 | 15119<br>741654 | 28588 | 66205 | 171095 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| Benzene | DFB | Ave | 23737<br>1066822 | 50374<br>2075008 | 95314 | 204361 | 531608 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| 1,2-Dichloroethane | DFB | Ave | 6775<br>341335 | 16099<br>651053 | 31452 | 64122 | 168093 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| Trichloroethene | DFB | Ave | 6240<br>290441 | 13692<br>579926 | 25596 | 54726 | 142049 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| Methylcyclohexane | DFB | Ave | 7845<br>494480 | 18749<br>1041439 | 38750 | 85272 | 225462 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| 1,2-Dichloropropane | DFB | Ave | 5458<br>271602 | 12700<br>534421 | 24160 | 50930 | 132596 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| Dibromomethane | DFB | Ave | 3187<br>168466 | 7361<br>324712 | 14722 | 30411 | 81508 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |

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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1 Analy Batch No.: 95189

SDG No.:

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

Calibration Start Date: 12/11/2012 15:52 Calibration End Date: 12/11/2012 18:24 Calibration ID: 11592

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/KG) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Dichlorobromomethane | DFB | Ave | 6599<br>342339 | 14602<br>679600 | 28627 | 60170 | 164151 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| 2-Chloroethyl vinyl ether | DFB | Ave | 18721<br>978094 | 43341<br>1853822 | 89109 | 179445 | 474877 | 12.5<br>500 | 25.0<br>1000 | 50.0 | 100 | 250 |
| cis-1,3-Dichloropropene | DFB | Ave | 8471<br>434724 | 19003<br>858101 | 37042 | 78169 | 209936 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| 4-Methyl-2-pentanone (MIBK) | CBZ | Ave | 37044<br>1687677 | 78732<br>3022610 | 157869 | 319368 | 803635 | 12.5<br>500 | 25.0<br>1000 | 50.0 | 100 | 250 |
| Toluene | CBZ | Ave | 15607<br>715783 | 33654<br>1398766 | 63380 | 134965 | 352236 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| Ethyl methacrylate | CBZ | Ave | 7113<br>396480 | 17196<br>774283 | 33750 | 70134 | 187022 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| trans-1,3-Dichloropropene | CBZ | Ave | 7465<br>391221 | 16505<br>757354 | 33272 | 69970 | 187156 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| 1,1,2-Trichloroethane | CBZ | Ave | 3945<br>204153 | 9009<br>394778 | 17799 | 37520 | 97885 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| Tetrachloroethene | CBZ | Ave | 6479<br>335784 | 15112<br>669886 | 28859 | 63188 | 162580 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| 1,3-Dichloropropane | CBZ | Ave | 8433<br>407980 | 19014<br>772613 | 36197 | 77002 | 202247 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| 2-Hexanone | CBZ | Ave | 27260<br>1252430 | 57181<br>2234613 | 115451 | 236616 | 589583 | 12.5<br>500 | 25.0<br>1000 | 50.0 | 100 | 250 |
| Chlorodibromomethane | CBZ | Ave | 5230<br>308178 | 11344<br>615206 | 23712 | 51175 | 143347 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| Ethylene Dibromide | CBZ | Ave | 5448<br>289898 | 12764<br>557916 | 24958 | 52895 | 138559 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| Chlorobenzene | CBZ | Ave | 18634<br>863143 | 40099<br>1684536 | 76563 | 161581 | 426794 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| Ethylbenzene | CBZ | Ave | 28854<br>1313256 | 62293<br>2529058 | 117644 | 255573 | 657158 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| 1,1,1,2-Tetrachloroethane | CBZ | Ave | 5963<br>306583 | 13208<br>601453 | 25736 | 55973 | 150162 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| m-Xylene & p-Xylene | CBZ | Ave | 23798<br>1116009 | 53098<br>2130792 | 99807 | 217621 | 554840 | 5.00<br>200 | 10.0<br>400 | 20.0 | 40.0 | 100 |
| o-Xylene | CBZ | Ave | 11644<br>552134 | 25601<br>1060897 | 48488 | 105471 | 272741 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| Styrene | CBZ | Ave | 18973<br>926031 | 41772<br>1785058 | 81513 | 175840 | 457819 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| Bromoform | CBZ | Lin1 | 3004<br>219080 | 7264<br>435460 | 15540 | 33892 | 98500 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| Isopropylbenzene | DCB | Ave | 27886<br>1389069 | 63873<br>2686058 | 122062 | 266367 | 683314 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |

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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1 Analy Batch No.: 95189

SDG No.:

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

Calibration Start Date: 12/11/2012 15:52 Calibration End Date: 12/11/2012 18:24 Calibration ID: 11592

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/KG) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| 1,1,2,2-Tetrachloroethane | DCB | Ave | 6792<br>371058 | 15675<br>688231 | 32584 | 67428 | 175702 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| Bromobenzene | DCB | Ave | 7984<br>396727 | 18266<br>763335 | 35793 | 75018 | 196217 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| N-Propylbenzene | DCB | Ave | 33028<br>1579358 | 74820<br>2885316 | 144070 | 312782 | 787273 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| trans-1,4-Dichloro-2-butene | DCB | Ave | 9229<br>489407 | 21277<br>886833 | 43979 | 90326 | 234809 | 12.5<br>500 | 25.0<br>1000 | 50.0 | 100 | 250 |
| 1,2,3-Trichloropropane | DCB | Ave | 2105<br>117763 | 5305<br>211807 | 10523 | 22298 | 57120 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| 2-Chlorotoluene | DCB | Ave | 7828<br>378350 | 17554<br>732701 | 33081 | 73133 | 184029 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| 1,3,5-Trimethylbenzene | DCB | Ave | 24275<br>1184324 | 55108<br>2255560 | 105059 | 228028 | 583934 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| 4-Chlorotoluene | DCB | Ave | 7981<br>390369 | 17675<br>760049 | 34561 | 74712 | 192743 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| tert-Butylbenzene | DCB | Ave | 5767<br>295616 | 12939<br>574625 | 25188 | 55538 | 142396 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| 1,2,4-Trimethylbenzene | DCB | Ave | 24750<br>1187910 | 54965<br>2254544 | 105737 | 228696 | 586112 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| sec-Butylbenzene | DCB | Ave | 29196<br>1525777 | 69177<br>2900570 | 132454 | 292295 | 747019 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| 4-Isopropyltoluene | DCB | Ave | 27055<br>1417023 | 63672<br>2674070 | 123046 | 272521 | 693839 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| 1,3-Dichlorobenzene | DCB | Ave | 15529<br>752441 | 35211<br>1437349 | 68362 | 143925 | 369269 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| 1,4-Dichlorobenzene | DCB | Ave | 16127<br>768036 | 35377<br>1461341 | 69145 | 145526 | 370670 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| n-Butylbenzene | DCB | Ave | 20993<br>1137278 | 50821<br>2157220 | 97462 | 217874 | 543342 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| 1,2-Dichlorobenzene | DCB | Ave | 14806<br>729794 | 33568<br>1384765 | 64858 | 137584 | 354526 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| 1,2-Dibromo-3-Chloropropane | DCB | Ave | 1044<br>73989 | 2776<br>133001 | 5340 | 12203 | 32898 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| 1,2,4-Trichlorobenzene | DCB | Ave | 8652<br>505698 | 20887<br>921002 | 43815 | 93810 | 238052 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| Hexachlorobutadiene | DCB | Ave | 4590<br>264774 | 11372<br>491346 | 22264 | 49233 | 125572 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| Naphthalene | DCB | Ave | 28083<br>1402699 | 62343<br>2373752 | 121852 | 257475 | 650215 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| 1,2,3-Trichlorobenzene | DCB | Ave | 7747<br>464869 | 19161<br>792418 | 39613 | 84375 | 217674 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |

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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1 Analy Batch No.: 95189

SDG No.:

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

Calibration Start Date: 12/11/2012 15:52 Calibration End Date: 12/11/2012 18:24 Calibration ID: 11592

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/KG) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| 1,2-Dichloroethane-d4 (Surr) | DFB | Ave | 129901 | 6627<br>264454 | 13625 | 26918 | 54058 | 100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| Toluene-d8 (Surr) | CBZ | Ave | 940596 | 46877<br>1925927 | 93655 | 192870 | 409382 | 100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| 4-Bromofluorobenzene (Surr) | CBZ | Ave | 319758 | 17531<br>667749 | 34309 | 67744 | 136679 | 100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4222.D | | |
| Lims ID: | STD1 | Client ID: | |
| Inject. Date: | 11-Dec-2012 15:52:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 1 |
| Sample ID: | STD1 | | |
| Misc. Info.: | 480-0017433-003 =480-0017433-003 | | |
| Operator: | Jmb | Instrument ID: | HP5973F |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 3 |
| Lims Batch ID: | 95189 | Lims Sample ID: | 3 |
| Sublist: | chrom-F-8260 SOIL*sub1 | | |
| Detector: | MS SCAN | | |
| Method: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F-8260 SOIL.m | | |
| Last Update: | 11-Dec-2012 22:33:34 | Calib Date: | 11-Dec-2012 21:23:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4235.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK007 | | |

First Level Reviewer: cwiklinc Date: 11-Dec-2012 22:33:33

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 5.608 | 5.608 | 0.0 | 93 | 332803 | 50.0 | |
| * 2 Chlorobenzene-d5 | 82 | 8.382 | 8.382 | 0.0 | 80 | 141796 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 10.700 | 10.700 | 0.0 | 92 | 152833 | 50.0 | |
| 10 Dichlorodifluoromethane | 85 | 2.007 | 2.001 | 0.006 | 27 | 3831 | 2.19 | |
| 12 Chloromethane | 50 | 2.147 | 2.153 | -0.006 | 40 | 5340 | 2.68 | |
| 13 Vinyl chloride | 62 | 2.262 | 2.275 | -0.012 | 20 | 4057 | 2.18 | |
| 14 Bromomethane | 94 | 2.566 | 2.560 | 0.006 | 65 | 3838 | 7.35 | |
| 15 Chloroethane | 64 | 2.645 | 2.633 | 0.012 | 36 | 2692 | 3.81 | |
| 17 Trichlorofluoromethane | 101 | 2.864 | 2.859 | 0.005 | 30 | 5249 | 2.45 | |
| 20 Acrolein | 56 | 3.199 | 3.193 | 0.006 | 86 | 22798 | 54.3 | |
| 21 1,1,2-Trichloro-1,2,2-trifluoroe | 101 | 3.236 | 3.230 | 0.006 | 11 | 3867 | 2.05 | |
| 22 1,1-Dichloroethene | 96 | 3.266 | 3.260 | 0.006 | 53 | 4653 | 2.18 | |
| 23 Acetone | 43 | 3.321 | 3.309 | 0.012 | 87 | 15288 | 16.3 | |
| 25 Iodomethane | 142 | 3.424 | 3.424 | 0.0 | 76 | 8216 | 2.44 | |
| 26 Carbon disulfide | 76 | 3.479 | 3.473 | 0.006 | 78 | 14892 | 2.29 | |
| 27 Methyl acetate | 43 | 3.534 | 3.534 | 0.0 | 76 | 8767 | 2.66 | |
| 29 Acetonitrile | 40 | 3.570 | 3.570 | 0.0 | 99 | 24741 | 115.4 | |
| 30 Methylene Chloride | 84 | 3.655 | 3.649 | 0.006 | 73 | 9057 | 3.15 | |
| 32 Methyl tert-butyl ether | 73 | 3.807 | 3.808 | -0.001 | 72 | 16468 | 2.40 | |
| 34 trans-1,2-Dichloroethene | 96 | 3.838 | 3.838 | 0.0 | 67 | 6002 | 2.34 | |
| 33 Acrylonitrile | 53 | 3.862 | 3.856 | 0.006 | 87 | 14274 | 12.2 | |
| 37 Vinyl acetate | 43 | 4.160 | 4.160 | 0.0 | 89 | 62281 | 12.9 | |
| 39 1,1-Dichloroethane | 63 | 4.178 | 4.179 | -0.001 | 1 | 10529 | 2.54 | |
| 44 2,2-Dichloropropane | 77 | 4.623 | 4.623 | 0.0 | 22 | 7507 | 2.35 | |
| 43 2-Butanone (MEK) | 43 | 4.616 | 4.623 | -0.007 | 96 | 20201 | 13.0 | |
| 45 cis-1,2-Dichloroethene | 96 | 4.629 | 4.635 | -0.006 | 23 | 6952 | 2.48 | |
| 48 Chlorobromomethane | 128 | 4.842 | 4.848 | -0.006 | 55 | 3321 | 2.26 | |
| 49 Tetrahydrofuran | 42 | 4.866 | 4.860 | 0.006 | 80 | 13175 | 12.8 | |
| 50 Chloroform | 83 | 4.878 | 4.878 | 0.0 | 63 | 10176 | 2.53 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 51 1,1,1-Trichloroethane | 97 | 5.024 | 5.024 | 0.0 | 34 | 8017 | 2.33 | |
| 52 Cyclohexane | 56 | 5.054 | 5.055 | -0.001 | 64 | 8364 | 2.15 | |
| 54 1,1-Dichloropropene | 75 | 5.140 | 5.140 | 0.0 | 37 | 6584 | 2.16 | |
| 55 Carbon tetrachloride | 117 | 5.158 | 5.158 | 0.0 | 63 | 6400 | 2.11 | |
| 57 Benzene | 78 | 5.328 | 5.328 | 0.0 | 85 | 23737 | 2.48 | |
| 58 1,2-Dichloroethane | 62 | 5.371 | 5.371 | 0.0 | 50 | 6775 | 2.25 | |
| 62 Trichloroethene | 95 | 5.851 | 5.858 | -0.007 | 48 | 6240 | 2.41 | |
| 64 Methylcyclohexane | 83 | 5.991 | 5.992 | -0.001 | 49 | 7845 | 1.97 | |
| 65 1,2-Dichloropropane | 63 | 6.077 | 6.077 | 0.0 | 51 | 5458 | 2.29 | |
| 67 Dibromomethane | 93 | 6.210 | 6.211 | -0.001 | 59 | 3187 | 2.22 | |
| 68 Dichlorobromomethane | 83 | 6.320 | 6.320 | 0.0 | 44 | 6599 | 2.28 | |
| 69 2-Chloroethyl vinyl ether | 63 | 6.527 | 6.527 | 0.0 | 75 | 18721 | 11.1 | |
| 72 cis-1,3-Dichloropropene | 75 | 6.703 | 6.703 | 0.0 | 44 | 8471 | 2.28 | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | 6.800 | 6.801 | -0.001 | 86 | 37044 | 12.6 | |
| 74 Toluene | 92 | 6.995 | 6.995 | 0.0 | 76 | 15607 | 2.48 | |
| 75 Ethyl methacrylate | 69 | 7.214 | 7.214 | 0.0 | 55 | 7113 | 2.16 | |
| 77 trans-1,3-Dichloropropene | 75 | 7.220 | 7.220 | 0.0 | 51 | 7465 | 2.29 | |
| 79 1,1,2-Trichloroethane | 83 | 7.415 | 7.415 | 0.0 | 16 | 3945 | 2.28 | |
| 81 Tetrachloroethene | 166 | 7.518 | 7.519 | -0.001 | 63 | 6479 | 2.25 | |
| 82 1,3-Dichloropropane | 76 | 7.585 | 7.585 | 0.0 | 25 | 8433 | 2.38 | |
| 80 2-Hexanone | 43 | 7.597 | 7.592 | 0.005 | 90 | 27260 | 12.6 | |
| 83 Chlorodibromomethane | 129 | 7.823 | 7.829 | -0.006 | 1 | 5230 | 2.15 | |
| 84 Ethylene Dibromide | 107 | 7.956 | 7.963 | -0.007 | 41 | 5448 | 2.23 | |
| 87 Chlorobenzene | 112 | 8.413 | 8.413 | 0.0 | 84 | 18634 | 2.46 | |
| 88 Ethylbenzene | 91 | 8.473 | 8.474 | -0.001 | 80 | 28854 | 2.48 | |
| 89 1,1,1,2-Tetrachloroethane | 131 | 8.486 | 8.492 | -0.006 | 16 | 5963 | 2.30 | |
| 90 m-Xylene & p-Xylene | 106 | 8.589 | 8.589 | 0.0 | 95 | 23798 | 4.83 | |
| 91 o-Xylene | 106 | 9.027 | 9.021 | 0.006 | 74 | 11644 | 2.42 | |
| 92 Styrene | 104 | 9.045 | 9.046 | -0.001 | 77 | 18973 | 2.37 | |
| 95 Bromoform | 173 | 9.325 | 9.319 | 0.006 | 24 | 3004 | 3.04 | |
| 94 Isopropylbenzene | 105 | 9.386 | 9.386 | 0.0 | 65 | 27886 | 2.39 | |
| 97 1,1,2,2-Tetrachloroethane | 83 | 9.757 | 9.757 | 0.0 | 11 | 6792 | 2.28 | |
| 101 Bromobenzene | 156 | 9.763 | 9.769 | -0.006 | 57 | 7984 | 2.39 | |
| 98 trans-1,4-Dichloro-2-butene | 53 | 9.800 | 9.800 | 0.0 | 37 | 9229 | 11.6 | |
| 99 N-Propylbenzene | 91 | 9.800 | 9.800 | 0.0 | 85 | 33028 | 2.46 | |
| 100 1,2,3-Trichloropropane | 110 | 9.806 | 9.812 | -0.006 | 32 | 2105 | 2.19 | |
| 103 2-Chlorotoluene | 126 | 9.927 | 9.934 | -0.007 | 78 | 7828 | 2.45 | |
| 102 1,3,5-Trimethylbenzene | 105 | 9.964 | 9.964 | 0.0 | 54 | 24275 | 2.43 | |
| 105 4-Chlorotoluene | 126 | 10.031 | 10.031 | 0.0 | 58 | 7981 | 2.43 | |
| 106 tert-Butylbenzene | 134 | 10.280 | 10.280 | 0.0 | 62 | 5767 | 2.37 | |
| 107 1,2,4-Trimethylbenzene | 105 | 10.329 | 10.329 | 0.0 | 67 | 24750 | 2.47 | |
| 109 sec-Butylbenzene | 105 | 10.481 | 10.481 | 0.0 | 50 | 29196 | 2.31 | |
| 110 4-Isopropyltoluene | 119 | 10.603 | 10.603 | 0.0 | 76 | 27055 | 2.31 | |
| 111 1,3-Dichlorobenzene | 146 | 10.639 | 10.639 | 0.0 | 67 | 15529 | 2.44 | |
| 113 1,4-Dichlorobenzene | 146 | 10.724 | 10.725 | -0.001 | 73 | 16127 | 2.49 | |
| 115 n-Butylbenzene | 91 | 10.974 | 10.974 | 0.0 | 78 | 20993 | 2.26 | |
| 116 1,2-Dichlorobenzene | 146 | 11.065 | 11.065 | 0.0 | 70 | 14806 | 2.43 | |
| 117 1,2-Dibromo-3-Chloropropane | 75 | 11.734 | 11.741 | -0.007 | 1 | 1044 | 1.95 | |
| 119 1,2,4-Trichlorobenzene | 180 | 12.391 | 12.385 | 0.006 | 39 | 8652 | 2.16 | |
| 120 Hexachlorobutadiene | 225 | 12.483 | 12.483 | 0.0 | 38 | 4590 | 2.17 | |
| 121 Naphthalene | 128 | 12.622 | 12.623 | -0.001 | 65 | 28083 | 2.48 | |
| 122 1,2,3-Trichlorobenzene | 180 | 12.835 | 12.842 | -0.007 | 36 | 7747 | 2.15 | |

Report Date: 11-Dec-2012 22:33:34 Chrom Revision: 2.0 22-Oct-2012 16:30:48
Data File: \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4222.D

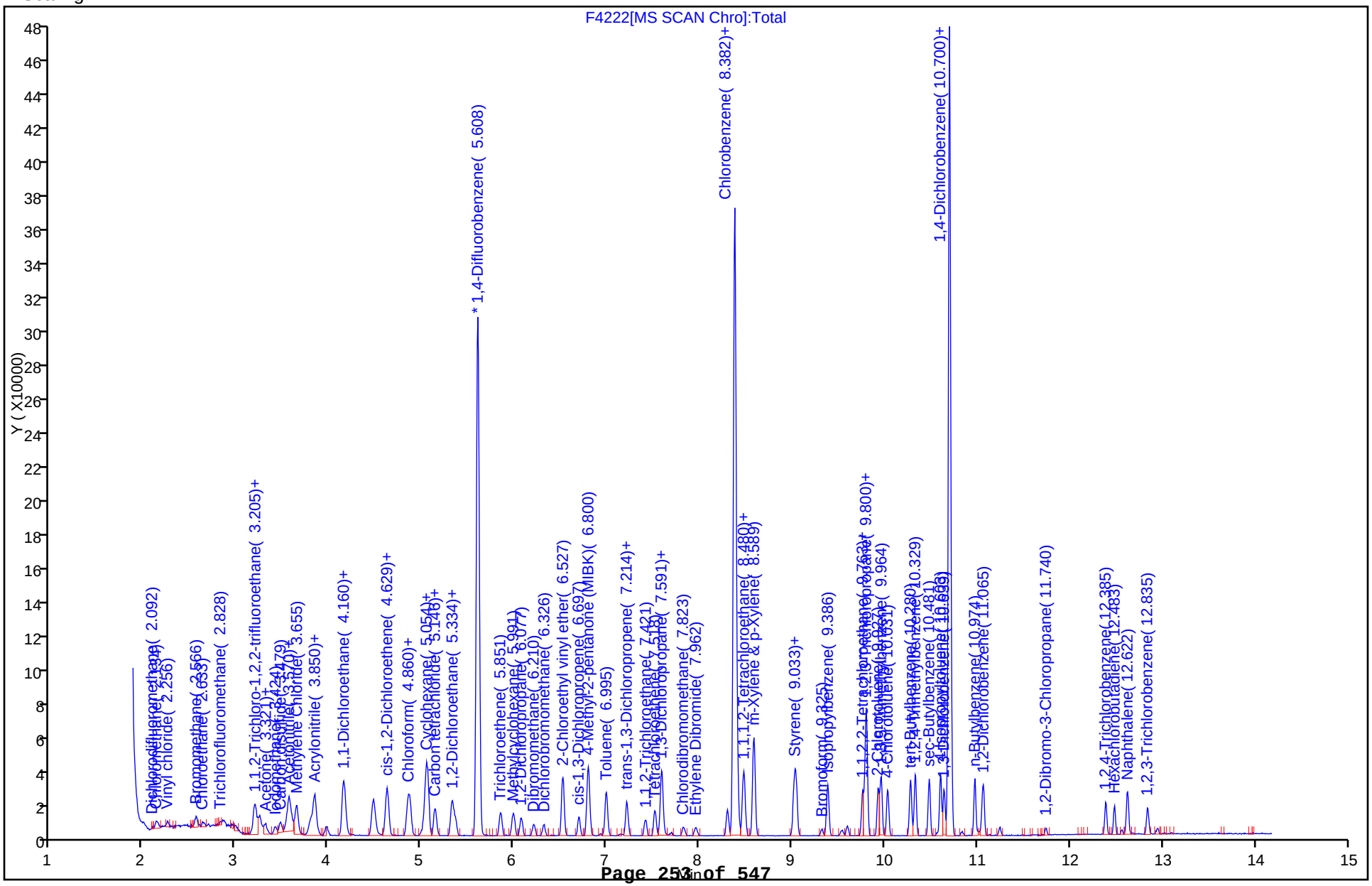
| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| S 125 1,2-Dichloroethene, Total | 1 | | | | 0 | | 4.82 | |
| S 126 1,3-Dichloropropene, Total | 1 | | | | 0 | | 4.56 | |
| S 123 Total BTEX | 1 | | | | 0 | | 14.7 | |
| S 124 Xylenes, Total | 1 | | | | 0 | | 7.25 | |

Report Date: 11-Dec-2012 22:33:34 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4222.D | | |
| Injection Date: | 11-Dec-2012 15:52:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973F |
| Lims Batch ID: | 95189 | Lims Sample ID: | 3 |
| Operator ID: | Jmb | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4223.D | | |
| Lims ID: | STD2 | Client ID: | |
| Inject. Date: | 11-Dec-2012 16:17:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 2 |
| Sample ID: | STD2 | | |
| Misc. Info.: | 480-0017433-004 =480-0017433-004 | | |
| Operator: | Jmb | Instrument ID: | HP5973F |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 4 |
| Lims Batch ID: | 95189 | Lims Sample ID: | 4 |
| Sublist: | chrom-F-8260 SOIL*sub1 | | |
| Detector: | MS SCAN | | |

| | | | |
|---|---|---|---|
| Method: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F-8260 SOIL.m | | |
| Last Update: | 11-Dec-2012 22:34:11 | Calib Date: | 11-Dec-2012 21:23:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4235.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK007 | | |

First Level Reviewer: cwiklinc Date: 11-Dec-2012 22:34:11

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 5.608 | 5.608 | 0.0 | 93 | 338087 | 50.0 | |
| * 2 Chlorobenzene-d5 | 82 | 8.382 | 8.382 | 0.0 | 79 | 145211 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 10.700 | 10.700 | 0.0 | 92 | 160018 | 50.0 | |
| $ 4 1,2-Dichloroethane-d4 (Surr) | 67 | 5.304 | 5.304 | 0.0 | 85 | 6627 | 5.41 | |
| $ 5 Toluene-d8 (Surr) | 98 | 6.928 | 6.928 | 0.0 | 71 | 46877 | 5.35 | |
| $ 6 4-Bromofluorobenzene (Surr) | 174 | 9.599 | 9.599 | 0.0 | 80 | 17531 | 5.67 | |
| 10 Dichlorodifluoromethane | 85 | 1.995 | 2.001 | -0.006 | 44 | 8560 | 4.81 | |
| 12 Chloromethane | 50 | 2.141 | 2.153 | -0.012 | 69 | 10583 | 5.24 | |
| 13 Vinyl chloride | 62 | 2.256 | 2.275 | -0.018 | 44 | 9929 | 5.26 | |
| 14 Bromomethane | 94 | 2.548 | 2.560 | -0.012 | 76 | 3255 | 6.43 | |
| 15 Chloroethane | 64 | 2.627 | 2.633 | -0.006 | 45 | 2759 | 3.85 | |
| 17 Trichlorofluoromethane | 101 | 2.852 | 2.859 | -0.007 | 44 | 10594 | 4.86 | |
| 20 Acrolein | 56 | 3.193 | 3.193 | 0.0 | 86 | 43908 | 103.0 | |
| 21 1,1,2-Trichloro-1,2,2-trifluoroe | 101 | 3.223 | 3.230 | -0.007 | 41 | 8993 | 4.70 | |
| 22 1,1-Dichloroethene | 96 | 3.260 | 3.260 | 0.0 | 68 | 11167 | 5.16 | |
| 23 Acetone | 43 | 3.303 | 3.309 | -0.006 | 91 | 22618 | 23.7 | |
| 25 Iodomethane | 142 | 3.412 | 3.424 | -0.012 | 75 | 16455 | 4.81 | |
| 26 Carbon disulfide | 76 | 3.473 | 3.473 | 0.0 | 94 | 31677 | 4.79 | |
| 27 Methyl acetate | 43 | 3.528 | 3.534 | -0.006 | 87 | 17500 | 5.22 | |
| 29 Acetonitrile | 40 | 3.564 | 3.570 | -0.006 | 99 | 44520 | 204.3 | |
| 30 Methylene Chloride | 84 | 3.649 | 3.649 | 0.0 | 81 | 17234 | 5.90 | |
| 32 Methyl tert-butyl ether | 73 | 3.807 | 3.808 | -0.001 | 83 | 34762 | 4.98 | |
| 34 trans-1,2-Dichloroethene | 96 | 3.838 | 3.838 | 0.0 | 84 | 13771 | 5.29 | |
| 33 Acrylonitrile | 53 | 3.856 | 3.856 | 0.0 | 98 | 30114 | 25.4 | |
| 37 Vinyl acetate | 43 | 4.154 | 4.160 | -0.006 | 96 | 131493 | 26.7 | |
| 39 1,1-Dichloroethane | 63 | 4.173 | 4.179 | -0.007 | 70 | 22504 | 5.33 | |
| 44 2,2-Dichloropropane | 77 | 4.623 | 4.623 | 0.0 | 43 | 17075 | 5.27 | |
| 43 2-Butanone (MEK) | 43 | 4.617 | 4.623 | -0.006 | 96 | 40351 | 25.6 | |
| 45 cis-1,2-Dichloroethene | 96 | 4.635 | 4.635 | 0.0 | 67 | 15149 | 5.32 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 48 Chlorobromomethane | 128 | 4.842 | 4.848 | -0.006 | 79 | 7854 | 5.25 | |
| 49 Tetrahydrofuran | 42 | 4.854 | 4.860 | -0.006 | 87 | 26829 | 25.6 | |
| 50 Chloroform | 83 | 4.878 | 4.878 | 0.0 | 83 | 21204 | 5.18 | |
| 51 1,1,1-Trichloroethane | 97 | 5.024 | 5.024 | 0.0 | 62 | 17442 | 4.99 | |
| 52 Cyclohexane | 56 | 5.049 | 5.055 | -0.006 | 83 | 18541 | 4.70 | |
| 54 1,1-Dichloropropene | 75 | 5.140 | 5.140 | 0.0 | 70 | 15743 | 5.09 | |
| 55 Carbon tetrachloride | 117 | 5.146 | 5.158 | -0.012 | 57 | 15119 | 4.91 | |
| 57 Benzene | 78 | 5.328 | 5.328 | 0.0 | 94 | 50374 | 5.18 | |
| 58 1,2-Dichloroethane | 62 | 5.365 | 5.371 | -0.006 | 61 | 16099 | 5.27 | |
| 62 Trichloroethene | 95 | 5.852 | 5.858 | -0.006 | 71 | 13692 | 5.22 | |
| 64 Methylcyclohexane | 83 | 5.985 | 5.992 | -0.007 | 74 | 18749 | 4.63 | |
| 65 1,2-Dichloropropane | 63 | 6.077 | 6.077 | 0.0 | 74 | 12700 | 5.24 | |
| 67 Dibromomethane | 93 | 6.211 | 6.211 | -0.001 | 74 | 7361 | 5.04 | |
| 68 Dichlorobromomethane | 83 | 6.326 | 6.320 | 0.006 | 67 | 14602 | 4.96 | |
| 69 2-Chloroethyl vinyl ether | 63 | 6.527 | 6.527 | 0.0 | 86 | 43341 | 25.3 | |
| 72 cis-1,3-Dichloropropene | 75 | 6.697 | 6.703 | -0.006 | 61 | 19003 | 5.03 | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | 6.801 | 6.801 | 0.0 | 93 | 78732 | 26.1 | |
| 74 Toluene | 92 | 6.995 | 6.995 | 0.0 | 94 | 33654 | 5.22 | |
| 75 Ethyl methacrylate | 69 | 7.214 | 7.214 | 0.0 | 69 | 17196 | 5.11 | |
| 77 trans-1,3-Dichloropropene | 75 | 7.220 | 7.220 | 0.0 | 64 | 16505 | 4.94 | |
| 79 1,1,2-Trichloroethane | 83 | 7.421 | 7.415 | 0.006 | 63 | 9009 | 5.08 | |
| 81 Tetrachloroethene | 166 | 7.518 | 7.519 | -0.001 | 82 | 15112 | 5.13 | |
| 82 1,3-Dichloropropane | 76 | 7.585 | 7.585 | 0.0 | 82 | 19014 | 5.24 | |
| 80 2-Hexanone | 43 | 7.591 | 7.592 | -0.001 | 92 | 57181 | 25.8 | |
| 83 Chlorodibromomethane | 129 | 7.829 | 7.829 | 0.0 | 33 | 11344 | 4.56 | |
| 84 Ethylene Dibromide | 107 | 7.956 | 7.963 | -0.007 | 49 | 12764 | 5.11 | |
| 87 Chlorobenzene | 112 | 8.413 | 8.413 | 0.0 | 84 | 40099 | 5.18 | |
| 88 Ethylbenzene | 91 | 8.474 | 8.474 | 0.0 | 87 | 62293 | 5.22 | |
| 89 1,1,1,2-Tetrachloroethane | 131 | 8.486 | 8.492 | -0.006 | 63 | 13208 | 4.98 | |
| 90 m-Xylene & p-Xylene | 106 | 8.589 | 8.589 | 0.0 | 99 | 53098 | 10.5 | |
| 91 o-Xylene | 106 | 9.021 | 9.021 | 0.0 | 88 | 25601 | 5.19 | |
| 92 Styrene | 104 | 9.045 | 9.046 | -0.001 | 88 | 41772 | 5.09 | |
| 95 Bromoform | 173 | 9.319 | 9.319 | 0.0 | 68 | 7264 | 5.14 | |
| 94 Isopropylbenzene | 105 | 9.386 | 9.386 | 0.0 | 78 | 63873 | 5.23 | |
| 97 1,1,2,2-Tetrachloroethane | 83 | 9.757 | 9.757 | 0.0 | 58 | 15675 | 5.02 | |
| 101 Bromobenzene | 156 | 9.769 | 9.769 | 0.0 | 82 | 18266 | 5.23 | |
| 98 trans-1,4-Dichloro-2-butene | 53 | 9.800 | 9.800 | 0.0 | 47 | 21277 | 25.5 | |
| 99 N-Propylbenzene | 91 | 9.800 | 9.800 | 0.0 | 92 | 74820 | 5.32 | |
| 100 1,2,3-Trichloropropane | 110 | 9.812 | 9.812 | 0.0 | 45 | 5305 | 5.28 | |
| 103 2-Chlorotoluene | 126 | 9.934 | 9.934 | 0.0 | 91 | 17554 | 5.26 | |
| 102 1,3,5-Trimethylbenzene | 105 | 9.964 | 9.964 | 0.0 | 71 | 55108 | 5.27 | |
| 105 4-Chlorotoluene | 126 | 10.031 | 10.031 | 0.0 | 86 | 17675 | 5.14 | |
| 106 tert-Butylbenzene | 134 | 10.280 | 10.280 | 0.0 | 75 | 12939 | 5.08 | |
| 107 1,2,4-Trimethylbenzene | 105 | 10.329 | 10.329 | 0.0 | 83 | 54965 | 5.23 | |
| 109 sec-Butylbenzene | 105 | 10.481 | 10.481 | 0.0 | 74 | 69177 | 5.23 | |
| 110 4-Isopropyltoluene | 119 | 10.603 | 10.603 | 0.0 | 88 | 63672 | 5.19 | |
| 111 1,3-Dichlorobenzene | 146 | 10.645 | 10.639 | 0.006 | 80 | 35211 | 5.28 | |
| 113 1,4-Dichlorobenzene | 146 | 10.725 | 10.725 | 0.0 | 89 | 35377 | 5.23 | |
| 115 n-Butylbenzene | 91 | 10.974 | 10.974 | 0.0 | 88 | 50821 | 5.22 | |
| 116 1,2-Dichlorobenzene | 146 | 11.065 | 11.065 | 0.0 | 88 | 33568 | 5.25 | |
| 117 1,2-Dibromo-3-Chloropropane | 75 | 11.740 | 11.741 | -0.001 | 23 | 2776 | 4.94 | |
| 119 1,2,4-Trichlorobenzene | 180 | 12.391 | 12.385 | 0.006 | 74 | 20887 | 4.98 | |

Report Date: 11-Dec-2012 22:34:11 Chrom Revision: 2.0 22-Oct-2012 16:30:48
Data File: \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4223.D

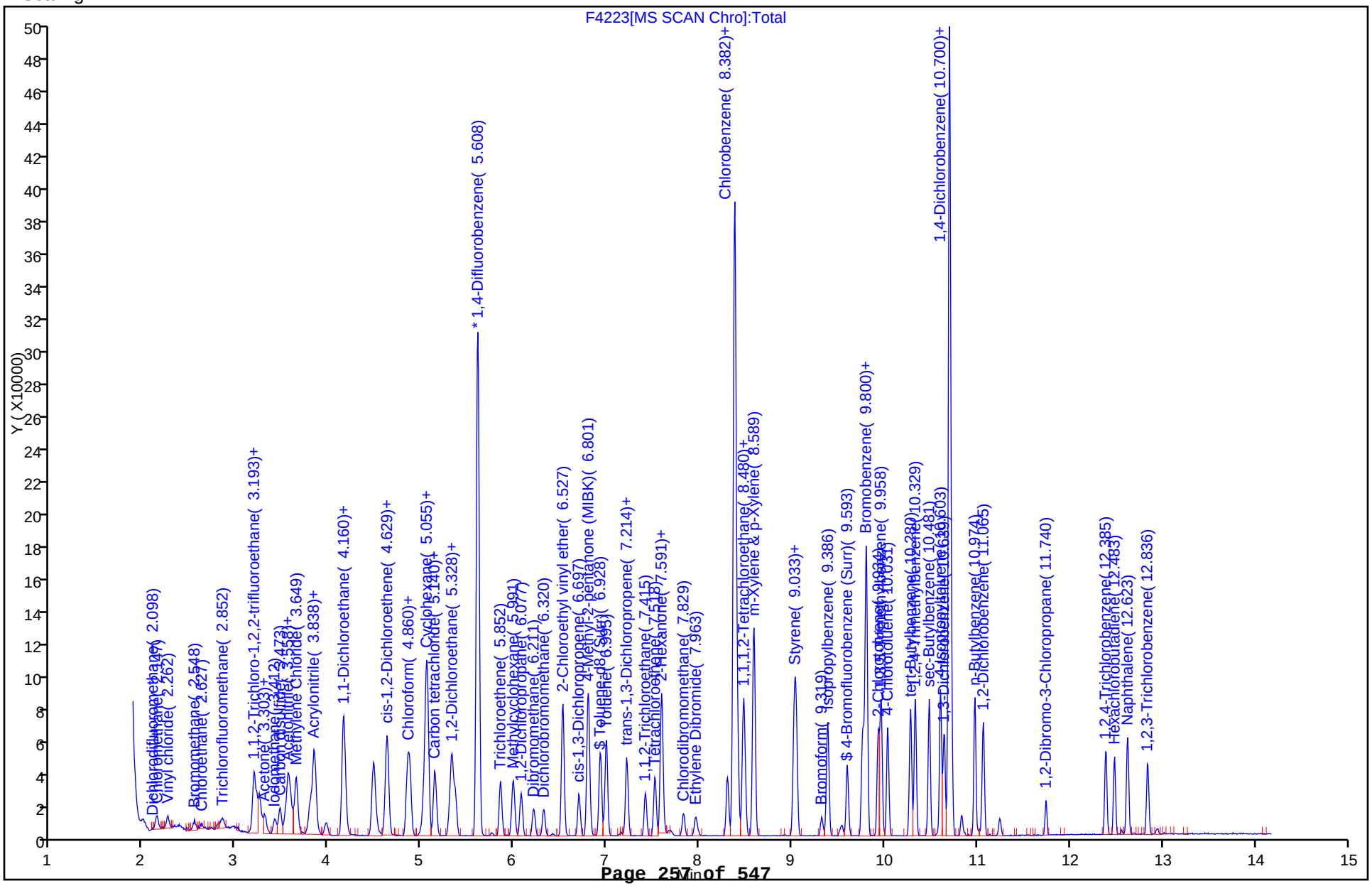
| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 120 Hexachlorobutadiene | 225 | 12.483 | 12.483 | 0.0 | 72 | 11372 | 5.14 | |
| 121 Naphthalene | 128 | 12.623 | 12.623 | 0.0 | 83 | 62343 | 5.27 | |
| 122 1,2,3-Trichlorobenzene | 180 | 12.836 | 12.842 | -0.006 | 73 | 19161 | 5.07 | |
| S 125 1,2-Dichloroethene, Total | 1 | | | | 0 | | 10.6 | |
| S 126 1,3-Dichloropropene, Total | 1 | | | | 0 | | 9.96 | |
| S 123 Total BTEX | 1 | | | | 0 | | 31.3 | |
| S 124 Xylenes, Total | 1 | | | | 0 | | 15.7 | |

Report Date: 11-Dec-2012 22:34:11 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4223.D | | |
| Injection Date: | 11-Dec-2012 16:17:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973F |
| Lims Batch ID: | 95189 | Lims Sample ID: | 4 |
| Operator ID: | Jmb | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4224.D | | |
| Lims ID: | STD3 | Client ID: | |
| Inject. Date: | 11-Dec-2012 16:43:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 3 |
| Sample ID: | STD3 | | |
| Misc. Info.: | 480-0017433-005 =480-0017433-005 | | |
| Operator: | Jmb | Instrument ID: | HP5973F |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 5 |
| Lims Batch ID: | 95189 | Lims Sample ID: | 5 |
| Sublist: | chrom-F-8260 SOIL*sub1 | | |
| Detector: | MS SCAN | | |

| | | | |
|---|---|---|---|
| Method: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F-8260 SOIL.m | | |
| Last Update: | 11-Dec-2012 22:34:57 | Calib Date: | 11-Dec-2012 21:23:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4235.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK007 | | |

First Level Reviewer: cwiklinc Date: 11-Dec-2012 22:34:56

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 5.608 | 5.608 | 0.0 | 93 | 356999 | 50.0 | |
| * 2 Chlorobenzene-d5 | 82 | 8.382 | 8.382 | 0.0 | 79 | 154164 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 10.700 | 10.700 | 0.0 | 88 | 172166 | 50.0 | |
| $ 4 1,2-Dichloroethane-d4 (Surr) | 67 | 5.304 | 5.304 | 0.0 | 88 | 13625 | 10.5 | |
| $ 5 Toluene-d8 (Surr) | 98 | 6.928 | 6.928 | 0.0 | 85 | 93655 | 10.1 | |
| $ 6 4-Bromofluorobenzene (Surr) | 174 | 9.599 | 9.599 | 0.0 | 88 | 34309 | 10.5 | |
| 10 Dichlorodifluoromethane | 85 | 1.994 | 2.001 | -0.007 | 67 | 15639 | 8.33 | |
| 12 Chloromethane | 50 | 2.147 | 2.153 | -0.006 | 83 | 19985 | 9.37 | |
| 13 Vinyl chloride | 62 | 2.262 | 2.275 | -0.012 | 65 | 18264 | 9.16 | |
| 14 Bromomethane | 94 | 2.548 | 2.560 | -0.012 | 76 | 6263 | 10.2 | |
| 15 Chloroethane | 64 | 2.627 | 2.633 | -0.006 | 59 | 6090 | 8.26 | |
| 17 Trichlorofluoromethane | 101 | 2.840 | 2.859 | -0.019 | 78 | 19353 | 8.41 | |
| 20 Acrolein | 56 | 3.193 | 3.193 | 0.0 | 91 | 87867 | 195.2 | |
| 21 1,1,2-Trichloro-1,2,2-trifluoroe | 101 | 3.229 | 3.230 | -0.001 | 58 | 18556 | 9.18 | |
| 22 1,1-Dichloroethene | 96 | 3.254 | 3.260 | -0.006 | 81 | 20680 | 9.05 | |
| 23 Acetone | 43 | 3.315 | 3.309 | 0.006 | 96 | 46619 | 46.2 | |
| 25 Iodomethane | 142 | 3.418 | 3.424 | -0.006 | 91 | 34835 | 9.63 | |
| 26 Carbon disulfide | 76 | 3.473 | 3.473 | 0.0 | 95 | 64772 | 9.27 | |
| 27 Methyl acetate | 43 | 3.528 | 3.534 | -0.006 | 88 | 34589 | 9.78 | |
| 29 Acetonitrile | 40 | 3.564 | 3.570 | -0.006 | 100 | 87959 | 382.3 | |
| 30 Methylene Chloride | 84 | 3.649 | 3.649 | 0.0 | 80 | 28427 | 9.21 | |
| 32 Methyl tert-butyl ether | 73 | 3.807 | 3.808 | -0.001 | 86 | 71073 | 9.65 | |
| 34 trans-1,2-Dichloroethene | 96 | 3.838 | 3.838 | 0.0 | 94 | 25285 | 9.19 | |
| 33 Acrylonitrile | 53 | 3.850 | 3.856 | -0.006 | 98 | 60923 | 48.6 | |
| 37 Vinyl acetate | 43 | 4.154 | 4.160 | -0.006 | 97 | 262794 | 50.6 | |
| 39 1,1-Dichloroethane | 63 | 4.172 | 4.179 | -0.007 | 70 | 41709 | 9.36 | |
| 44 2,2-Dichloropropane | 77 | 4.623 | 4.623 | 0.0 | 49 | 31172 | 9.11 | |
| 43 2-Butanone (MEK) | 43 | 4.623 | 4.623 | 0.0 | 100 | 81708 | 49.2 | |
| 45 cis-1,2-Dichloroethene | 96 | 4.635 | 4.635 | 0.0 | 74 | 27882 | 9.27 | |

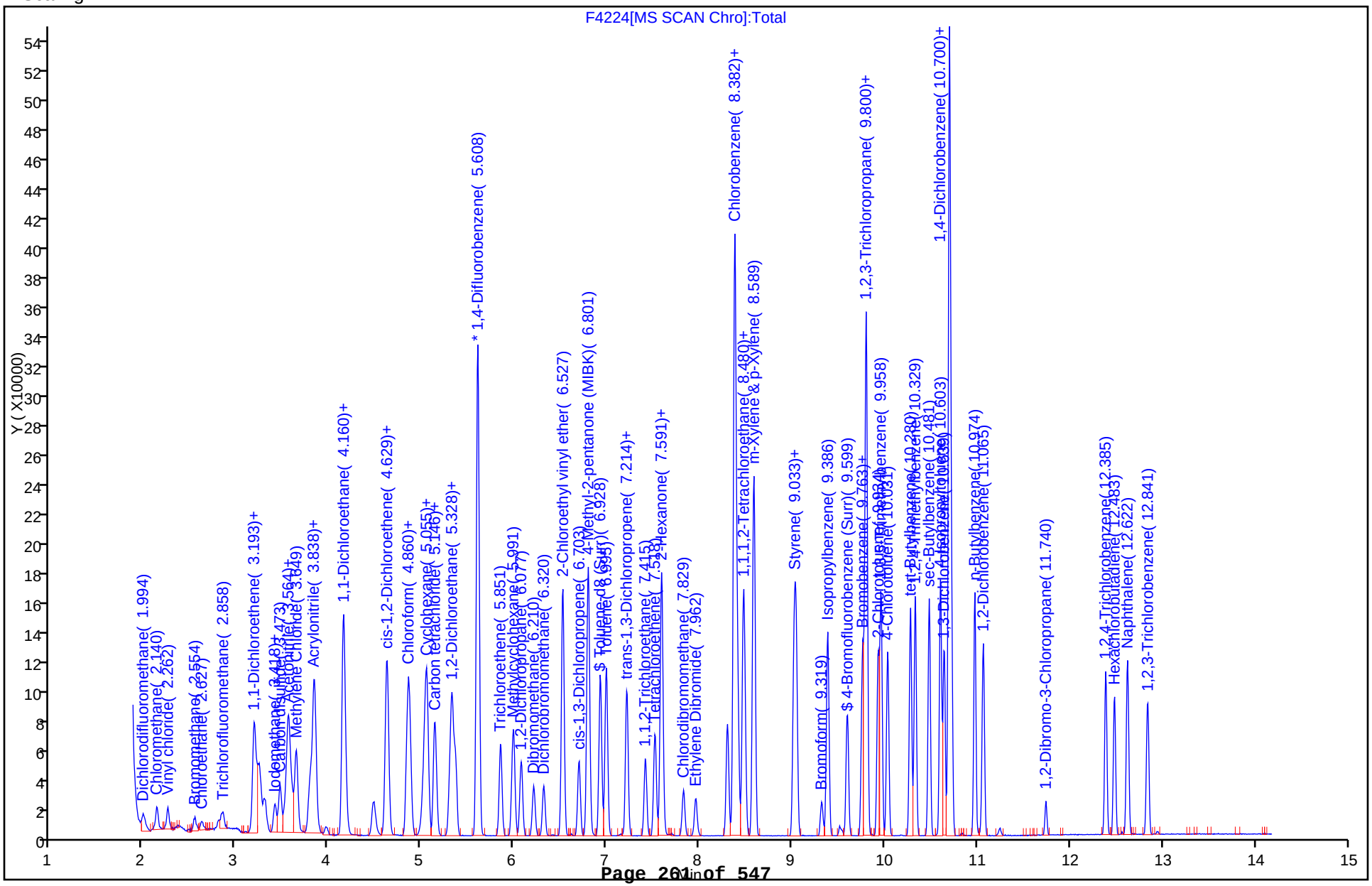
| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 48 Chlorobromomethane | 128 | 4.842 | 4.848 | -0.006 | 82 | 15015 | 9.51 | |
| 49 Tetrahydrofuran | 42 | 4.860 | 4.860 | 0.0 | 89 | 53719 | 48.5 | |
| 50 Chloroform | 83 | 4.872 | 4.878 | -0.006 | 74 | 40198 | 9.31 | |
| 51 1,1,1-Trichloroethane | 97 | 5.024 | 5.024 | 0.0 | 81 | 33122 | 8.98 | |
| 52 Cyclohexane | 56 | 5.055 | 5.055 | 0.0 | 87 | 37929 | 9.11 | |
| 54 1,1-Dichloropropene | 75 | 5.140 | 5.140 | 0.0 | 85 | 29255 | 8.96 | |
| 55 Carbon tetrachloride | 117 | 5.152 | 5.158 | -0.006 | 73 | 28588 | 8.78 | |
| 57 Benzene | 78 | 5.328 | 5.328 | 0.0 | 96 | 95314 | 9.28 | |
| 58 1,2-Dichloroethane | 62 | 5.365 | 5.371 | -0.006 | 70 | 31452 | 9.76 | |
| 62 Trichloroethene | 95 | 5.851 | 5.858 | -0.007 | 82 | 25596 | 9.23 | |
| 64 Methylcyclohexane | 83 | 5.991 | 5.992 | -0.001 | 81 | 38750 | 9.06 | |
| 65 1,2-Dichloropropane | 63 | 6.077 | 6.077 | 0.0 | 86 | 24160 | 9.43 | |
| 67 Dibromomethane | 93 | 6.210 | 6.211 | -0.001 | 83 | 14722 | 9.55 | |
| 68 Dichlorobromomethane | 83 | 6.320 | 6.320 | 0.0 | 81 | 28627 | 9.21 | |
| 69 2-Chloroethyl vinyl ether | 63 | 6.527 | 6.527 | 0.0 | 89 | 89109 | 49.3 | |
| 72 cis-1,3-Dichloropropene | 75 | 6.703 | 6.703 | 0.0 | 75 | 37042 | 9.28 | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | 6.801 | 6.801 | -0.001 | 95 | 157869 | 49.4 | |
| 74 Toluene | 92 | 6.995 | 6.995 | 0.0 | 97 | 63380 | 9.26 | |
| 75 Ethyl methacrylate | 69 | 7.214 | 7.214 | 0.0 | 83 | 33750 | 9.44 | |
| 77 trans-1,3-Dichloropropene | 75 | 7.220 | 7.220 | 0.0 | 83 | 33272 | 9.37 | |
| 79 1,1,2-Trichloroethane | 83 | 7.415 | 7.415 | 0.0 | 72 | 17799 | 9.46 | |
| 81 Tetrachloroethene | 166 | 7.524 | 7.519 | 0.005 | 85 | 28859 | 9.23 | |
| 82 1,3-Dichloropropane | 76 | 7.585 | 7.585 | 0.0 | 83 | 36197 | 9.39 | |
| 80 2-Hexanone | 43 | 7.597 | 7.592 | 0.005 | 94 | 115451 | 49.1 | |
| 83 Chlorodibromomethane | 129 | 7.829 | 7.829 | 0.0 | 72 | 23712 | 8.97 | |
| 84 Ethylene Dibromide | 107 | 7.962 | 7.963 | -0.001 | 79 | 24958 | 9.42 | |
| 87 Chlorobenzene | 112 | 8.413 | 8.413 | 0.0 | 93 | 76563 | 9.31 | |
| 88 Ethylbenzene | 91 | 8.473 | 8.474 | -0.001 | 97 | 117644 | 9.29 | |
| 89 1,1,1,2-Tetrachloroethane | 131 | 8.486 | 8.492 | -0.006 | 85 | 25736 | 9.14 | |
| 90 m-Xylene & p-Xylene | 106 | 8.589 | 8.589 | 0.0 | 99 | 99807 | 18.6 | |
| 91 o-Xylene | 106 | 9.021 | 9.021 | 0.0 | 91 | 48488 | 9.26 | |
| 92 Styrene | 104 | 9.045 | 9.046 | -0.001 | 94 | 81513 | 9.35 | |
| 95 Bromoform | 173 | 9.319 | 9.319 | 0.0 | 78 | 15540 | 8.83 | |
| 94 Isopropylbenzene | 105 | 9.386 | 9.386 | 0.0 | 91 | 122062 | 9.29 | |
| 97 1,1,2,2-Tetrachloroethane | 83 | 9.757 | 9.757 | 0.0 | 70 | 32584 | 9.71 | |
| 101 Bromobenzene | 156 | 9.763 | 9.769 | -0.006 | 84 | 35793 | 9.52 | |
| 98 trans-1,4-Dichloro-2-butene | 53 | 9.800 | 9.800 | 0.0 | 58 | 43979 | 49.1 | |
| 99 N-Propylbenzene | 91 | 9.800 | 9.800 | 0.0 | 94 | 144070 | 9.51 | |
| 100 1,2,3-Trichloropropane | 110 | 9.806 | 9.812 | -0.006 | 53 | 10523 | 9.74 | |
| 103 2-Chlorotoluene | 126 | 9.934 | 9.934 | 0.0 | 97 | 33081 | 9.21 | |
| 102 1,3,5-Trimethylbenzene | 105 | 9.964 | 9.964 | 0.0 | 80 | 105059 | 9.34 | |
| 105 4-Chlorotoluene | 126 | 10.031 | 10.031 | 0.0 | 92 | 34561 | 9.34 | |
| 106 tert-Butylbenzene | 134 | 10.280 | 10.280 | 0.0 | 84 | 25188 | 9.20 | |
| 107 1,2,4-Trimethylbenzene | 105 | 10.329 | 10.329 | 0.0 | 92 | 105737 | 9.36 | |
| 109 sec-Butylbenzene | 105 | 10.481 | 10.481 | 0.0 | 87 | 132454 | 9.31 | |
| 110 4-Isopropyltoluene | 119 | 10.603 | 10.603 | 0.0 | 94 | 123046 | 9.33 | |
| 111 1,3-Dichlorobenzene | 146 | 10.645 | 10.639 | 0.006 | 86 | 68362 | 9.53 | |
| 113 1,4-Dichlorobenzene | 146 | 10.724 | 10.725 | -0.001 | 94 | 69145 | 9.49 | |
| 115 n-Butylbenzene | 91 | 10.974 | 10.974 | 0.0 | 93 | 97462 | 9.30 | |
| 116 1,2-Dichlorobenzene | 146 | 11.065 | 11.065 | 0.0 | 96 | 64858 | 9.44 | |
| 117 1,2-Dibromo-3-Chloropropane | 75 | 11.740 | 11.741 | -0.001 | 52 | 5340 | 8.84 | |
| 119 1,2,4-Trichlorobenzene | 180 | 12.385 | 12.385 | 0.0 | 85 | 43815 | 9.71 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 120 Hexachlorobutadiene | 225 | 12.483 | 12.483 | 0.0 | 86 | 22264 | 9.36 | |
| 121 Naphthalene | 128 | 12.622 | 12.623 | -0.001 | 94 | 121852 | 9.56 | |
| 122 1,2,3-Trichlorobenzene | 180 | 12.841 | 12.842 | -0.001 | 88 | 39613 | 9.74 | |
| S 125 1,2-Dichloroethene, Total | 1 | | | | 0 | | 18.5 | |
| S 126 1,3-Dichloropropene, Total | 1 | | | | 0 | | 18.7 | |
| S 123 Total BTEX | 1 | | | | 0 | | 55.7 | |
| S 124 Xylenes, Total | 1 | | | | 0 | | 27.9 | |

Report Date: 11-Dec-2012 22:34:57 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4224.D | | |
| Injection Date: | 11-Dec-2012 16:43:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973F |
| Lims Batch ID: | 95189 | Lims Sample ID: | 5 |
| Operator ID: | Jmb | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Y Scaling: | | | |



Report Date: 11-Dec-2012 22:35:29 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4225.D | | |
| Lims ID: | STD4 | Client ID: | |
| Inject. Date: | 11-Dec-2012 17:08:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 4 |
| Sample ID: | STD4 | | |
| Misc. Info.: | 480-0017433-006 =480-0017433-006 | | |
| Operator: | Jmb | Instrument ID: | HP5973F |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 6 |
| Lims Batch ID: | 95189 | Lims Sample ID: | 6 |
| Sublist: | chrom-F-8260 SOIL*sub1 | | |
| Detector: | MS SCAN | | |

| | | | |
|---|---|---|---|
| Method: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F-8260 SOIL.m | | |
| Last Update: | 11-Dec-2012 22:35:28 | Calib Date: | 11-Dec-2012 21:23:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4235.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK007 | | |

First Level Reviewer: cwiklinc Date: 11-Dec-2012 22:35:28

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 5.608 | 5.608 | 0.0 | 93 | 348962 | 50.0 | |
| * 2 Chlorobenzene-d5 | 82 | 8.382 | 8.382 | 0.0 | 74 | 151028 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 10.700 | 10.700 | 0.0 | 91 | 171346 | 50.0 | |
| $ 4 1,2-Dichloroethane-d4 (Surr) | 67 | 5.298 | 5.304 | -0.006 | 96 | 26918 | 21.3 | |
| $ 5 Toluene-d8 (Surr) | 98 | 6.934 | 6.928 | 0.006 | 90 | 192870 | 21.2 | |
| $ 6 4-Bromofluorobenzene (Surr) | 174 | 9.599 | 9.599 | 0.0 | 91 | 67744 | 21.1 | |
| 10 Dichlorodifluoromethane | 85 | 2.001 | 2.001 | 0.0 | 74 | 40013 | 21.8 | |
| 12 Chloromethane | 50 | 2.153 | 2.153 | 0.0 | 89 | 43412 | 20.8 | |
| 13 Vinyl chloride | 62 | 2.268 | 2.275 | -0.006 | 75 | 42458 | 21.8 | |
| 14 Bromomethane | 94 | 2.554 | 2.560 | -0.006 | 79 | 12806 | 19.4 | |
| 15 Chloroethane | 64 | 2.627 | 2.633 | -0.006 | 67 | 13192 | 18.5 | |
| 17 Trichlorofluoromethane | 101 | 2.858 | 2.859 | -0.001 | 78 | 48354 | 21.5 | |
| 20 Acrolein | 56 | 3.193 | 3.193 | 0.0 | 95 | 174122 | 395.7 | |
| 21 1,1,2-Trichloro-1,2,2-trifluoroe | 101 | 3.223 | 3.230 | -0.007 | 72 | 40401 | 20.5 | |
| 22 1,1-Dichloroethene | 96 | 3.260 | 3.260 | 0.0 | 82 | 47633 | 21.3 | |
| 23 Acetone | 43 | 3.309 | 3.309 | 0.0 | 98 | 95080 | 96.4 | |
| 25 Iodomethane | 142 | 3.418 | 3.424 | -0.006 | 95 | 70130 | 19.8 | |
| 26 Carbon disulfide | 76 | 3.473 | 3.473 | 0.0 | 98 | 138281 | 20.2 | |
| 27 Methyl acetate | 43 | 3.528 | 3.534 | -0.006 | 90 | 67602 | 19.6 | |
| 29 Acetonitrile | 40 | 3.570 | 3.570 | 0.0 | 99 | 178378 | 793.2 | |
| 30 Methylene Chloride | 84 | 3.649 | 3.649 | 0.0 | 85 | 57518 | 19.1 | |
| 32 Methyl tert-butyl ether | 73 | 3.807 | 3.808 | -0.001 | 88 | 145221 | 20.2 | |
| 34 trans-1,2-Dichloroethene | 96 | 3.838 | 3.838 | 0.0 | 95 | 56176 | 20.9 | |
| 33 Acrylonitrile | 53 | 3.856 | 3.856 | 0.0 | 99 | 123949 | 101.1 | |
| 37 Vinyl acetate | 43 | 4.160 | 4.160 | 0.0 | 97 | 512991 | 101.0 | |
| 39 1,1-Dichloroethane | 63 | 4.179 | 4.179 | -0.001 | 78 | 89977 | 20.7 | |
| 44 2,2-Dichloropropane | 77 | 4.623 | 4.623 | 0.0 | 55 | 69618 | 20.8 | |
| 43 2-Butanone (MEK) | 43 | 4.623 | 4.623 | 0.0 | 100 | 163094 | 100.4 | |
| 45 cis-1,2-Dichloroethene | 96 | 4.635 | 4.635 | 0.0 | 68 | 59181 | 20.1 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 48 Chlorobromomethane | 128 | 4.842 | 4.848 | -0.006 | 86 | 31546 | 20.4 | |
| 49 Tetrahydrofuran | 42 | 4.860 | 4.860 | 0.0 | 89 | 109087 | 100.9 | |
| 50 Chloroform | 83 | 4.878 | 4.878 | 0.0 | 80 | 85670 | 20.3 | |
| 51 1,1,1-Trichloroethane | 97 | 5.024 | 5.024 | 0.0 | 91 | 75164 | 20.8 | |
| 52 Cyclohexane | 56 | 5.055 | 5.055 | 0.0 | 89 | 82765 | 20.3 | |
| 54 1,1-Dichloropropene | 75 | 5.140 | 5.140 | 0.0 | 89 | 67804 | 21.2 | |
| 55 Carbon tetrachloride | 117 | 5.152 | 5.158 | -0.006 | 77 | 66205 | 20.8 | |
| 57 Benzene | 78 | 5.334 | 5.328 | 0.006 | 97 | 204361 | 20.4 | |
| 58 1,2-Dichloroethane | 62 | 5.371 | 5.371 | 0.0 | 73 | 64122 | 20.3 | |
| 62 Trichloroethene | 95 | 5.851 | 5.858 | -0.007 | 88 | 54726 | 20.2 | |
| 64 Methylcyclohexane | 83 | 5.991 | 5.992 | -0.001 | 88 | 85272 | 20.4 | |
| 65 1,2-Dichloropropane | 63 | 6.077 | 6.077 | 0.0 | 91 | 50930 | 20.3 | |
| 67 Dibromomethane | 93 | 6.217 | 6.211 | 0.005 | 81 | 30411 | 20.2 | |
| 68 Dichlorobromomethane | 83 | 6.320 | 6.320 | 0.0 | 87 | 60170 | 19.8 | |
| 69 2-Chloroethyl vinyl ether | 63 | 6.527 | 6.527 | 0.0 | 93 | 179445 | 101.6 | |
| 72 cis-1,3-Dichloropropene | 75 | 6.703 | 6.703 | 0.0 | 82 | 78169 | 20.0 | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | 6.801 | 6.801 | 0.0 | 96 | 319368 | 101.9 | |
| 74 Toluene | 92 | 6.995 | 6.995 | 0.0 | 92 | 134965 | 20.1 | |
| 75 Ethyl methacrylate | 69 | 7.214 | 7.214 | 0.0 | 88 | 70134 | 20.0 | |
| 77 trans-1,3-Dichloropropene | 75 | 7.220 | 7.220 | 0.0 | 94 | 69970 | 20.1 | |
| 79 1,1,2-Trichloroethane | 83 | 7.421 | 7.415 | 0.006 | 82 | 37520 | 20.4 | |
| 81 Tetrachloroethene | 166 | 7.518 | 7.519 | -0.001 | 89 | 63188 | 20.6 | |
| 82 1,3-Dichloropropane | 76 | 7.585 | 7.585 | 0.0 | 90 | 77002 | 20.4 | |
| 80 2-Hexanone | 43 | 7.591 | 7.592 | -0.001 | 96 | 236616 | 102.6 | |
| 83 Chlorodibromomethane | 129 | 7.829 | 7.829 | 0.0 | 81 | 51175 | 19.8 | |
| 84 Ethylene Dibromide | 107 | 7.962 | 7.963 | -0.001 | 91 | 52895 | 20.4 | |
| 87 Chlorobenzene | 112 | 8.413 | 8.413 | 0.0 | 93 | 161581 | 20.1 | |
| 88 Ethylbenzene | 91 | 8.474 | 8.474 | 0.0 | 97 | 255573 | 20.6 | |
| 89 1,1,1,2-Tetrachloroethane | 131 | 8.492 | 8.492 | 0.0 | 86 | 55973 | 20.3 | |
| 90 m-Xylene & p-Xylene | 106 | 8.589 | 8.589 | 0.0 | 99 | 217621 | 41.5 | |
| 91 o-Xylene | 106 | 9.021 | 9.021 | 0.0 | 94 | 105471 | 20.6 | |
| 92 Styrene | 104 | 9.045 | 9.046 | -0.001 | 95 | 175840 | 20.6 | |
| 95 Bromoform | 173 | 9.319 | 9.319 | 0.0 | 95 | 33892 | 17.8 | |
| 94 Isopropylbenzene | 105 | 9.386 | 9.386 | 0.0 | 93 | 266367 | 20.4 | |
| 97 1,1,2,2-Tetrachloroethane | 83 | 9.757 | 9.757 | 0.0 | 84 | 67428 | 20.2 | |
| 101 Bromobenzene | 156 | 9.769 | 9.769 | 0.0 | 86 | 75018 | 20.1 | |
| 98 trans-1,4-Dichloro-2-butene | 53 | 9.800 | 9.800 | 0.0 | 56 | 90326 | 101.3 | |
| 99 N-Propylbenzene | 91 | 9.800 | 9.800 | 0.0 | 95 | 312782 | 20.8 | |
| 100 1,2,3-Trichloropropane | 110 | 9.806 | 9.812 | -0.006 | 81 | 22298 | 20.7 | |
| 103 2-Chlorotoluene | 126 | 9.927 | 9.934 | -0.007 | 98 | 73133 | 20.4 | |
| 102 1,3,5-Trimethylbenzene | 105 | 9.964 | 9.964 | 0.0 | 81 | 228028 | 20.4 | |
| 105 4-Chlorotoluene | 126 | 10.031 | 10.031 | 0.0 | 96 | 74712 | 20.3 | |
| 106 tert-Butylbenzene | 134 | 10.280 | 10.280 | 0.0 | 86 | 55538 | 20.4 | |
| 107 1,2,4-Trimethylbenzene | 105 | 10.329 | 10.329 | 0.0 | 94 | 228696 | 20.3 | |
| 109 sec-Butylbenzene | 105 | 10.481 | 10.481 | 0.0 | 91 | 292295 | 20.6 | |
| 110 4-Isopropyltoluene | 119 | 10.603 | 10.603 | 0.0 | 96 | 272521 | 20.8 | |
| 111 1,3-Dichlorobenzene | 146 | 10.645 | 10.639 | 0.006 | 95 | 143925 | 20.2 | |
| 113 1,4-Dichlorobenzene | 146 | 10.718 | 10.725 | -0.007 | 93 | 145526 | 20.1 | |
| 115 n-Butylbenzene | 91 | 10.974 | 10.974 | 0.0 | 92 | 217874 | 20.9 | |
| 116 1,2-Dichlorobenzene | 146 | 11.065 | 11.065 | 0.0 | 98 | 137584 | 20.1 | |
| 117 1,2-Dibromo-3-Chloropropane | 75 | 11.740 | 11.741 | -0.001 | 70 | 12203 | 20.3 | |
| 119 1,2,4-Trichlorobenzene | 180 | 12.385 | 12.385 | 0.0 | 93 | 93810 | 20.9 | |

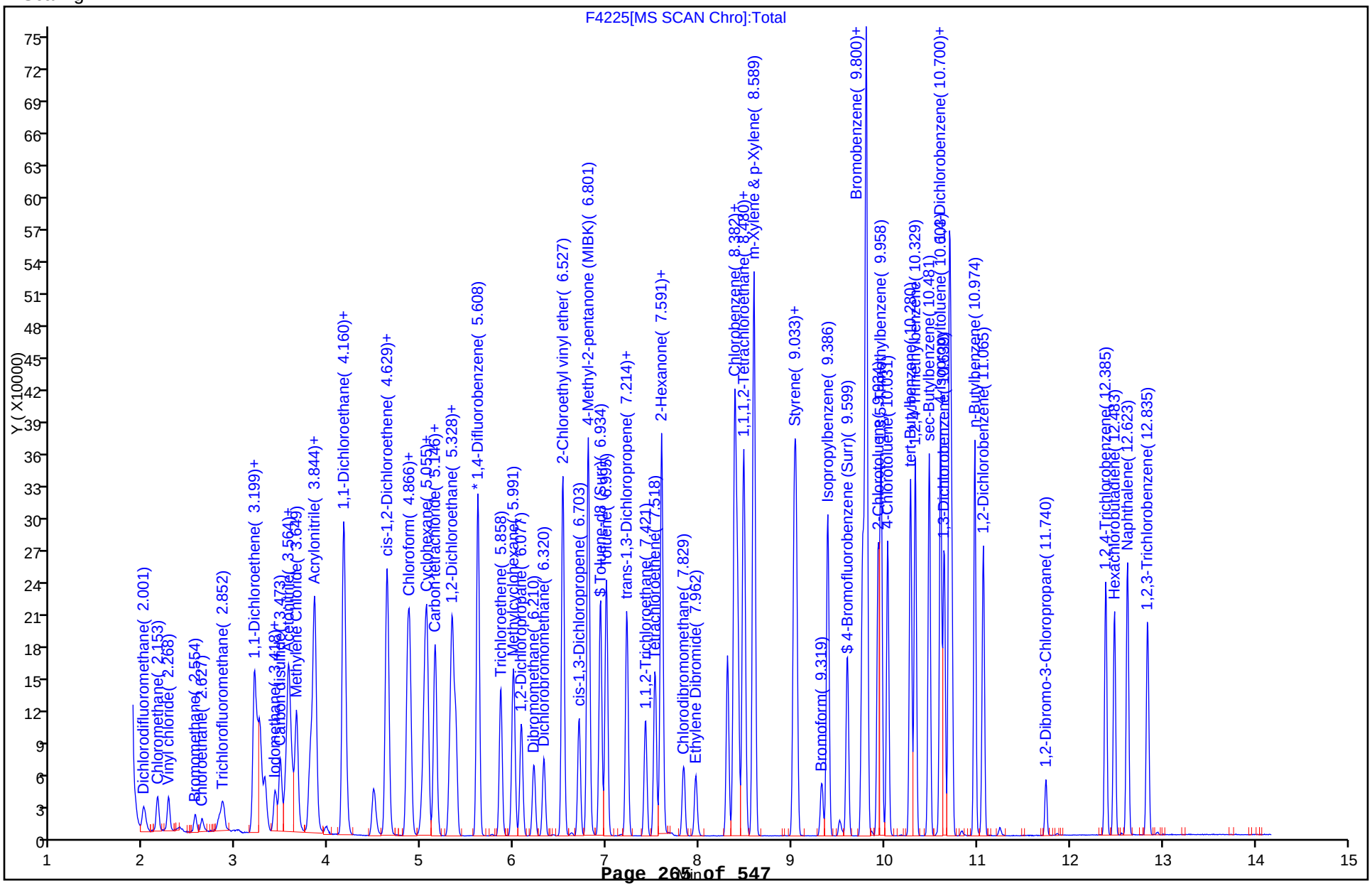
Report Date: 11-Dec-2012 22:35:29 Chrom Revision: 2.0 22-Oct-2012 16:30:48
Data File: \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4225.D

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 120 Hexachlorobutadiene | 225 | 12.483 | 12.483 | 0.0 | 90 | 49233 | 20.8 | |
| 121 Naphthalene | 128 | 12.623 | 12.623 | -0.001 | 96 | 257475 | 20.3 | |
| 122 1,2,3-Trichlorobenzene | 180 | 12.842 | 12.842 | 0.0 | 93 | 84375 | 20.8 | |
| S 125 1,2-Dichloroethene, Total | 1 | | | | 0 | | 41.0 | |
| S 126 1,3-Dichloropropene, Total | 1 | | | | 0 | | 40.2 | |
| S 123 Total BTEX | 1 | | | | 0 | | 123.1 | |
| S 124 Xylenes, Total | 1 | | | | 0 | | 62.1 | |

Report Date: 11-Dec-2012 22:35:29 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4225.D | | |
| Injection Date: | 11-Dec-2012 17:08:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973F |
| Lims Batch ID: | 95189 | Lims Sample ID: | 6 |
| Operator ID: | Jmb | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Y Scaling: | | | |



TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4226.D | | |
| Lims ID: | STD5 | Client ID: | |
| Inject. Date: | 11-Dec-2012 17:34:30 | Dil. Factor: | 1.0000 |
| Sample Type: | ICIS | Calib Level: | 5 |
| Sample ID: | STD5 | | |
| Misc. Info.: | 480-0017433-007 =480-0017433-007 | | |
| Operator: | Jmb | Instrument ID: | HP5973F |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 7 |
| Lims Batch ID: | 95189 | Lims Sample ID: | 7 |
| Sublist: | chrom-F-8260 SOIL*sub1 | | |
| Detector: | MS SCAN | | |

| | | | |
|---|---|---|---|
| Method: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F-8260 SOIL.m | | |
| Last Update: | 11-Dec-2012 22:35:53 | Calib Date: | 11-Dec-2012 21:23:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4235.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK007 | | |

First Level Reviewer: cwiklinc Date: 11-Dec-2012 22:35:53

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 5.608 | 5.608 | 0.0 | 93 | 362215 | 50.0 | |
| * 2 Chlorobenzene-d5 | 82 | 8.382 | 8.382 | 0.0 | 73 | 157875 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 10.700 | 10.700 | 0.0 | 89 | 175985 | 50.0 | |
| $ 4 1,2-Dichloroethane-d4 (Surr) | 67 | 5.304 | 5.304 | 0.0 | 93 | 54058 | 41.2 | |
| $ 5 Toluene-d8 (Surr) | 98 | 6.928 | 6.928 | 0.0 | 91 | 409382 | 43.0 | |
| $ 6 4-Bromofluorobenzene (Surr) | 174 | 9.599 | 9.599 | 0.0 | 93 | 136679 | 40.7 | |
| 10 Dichlorodifluoromethane | 85 | 2.001 | 2.001 | 0.0 | 95 | 89528 | 47.0 | |
| 12 Chloromethane | 50 | 2.153 | 2.153 | 0.0 | 89 | 110221 | 50.9 | |
| 13 Vinyl chloride | 62 | 2.275 | 2.275 | 0.0 | 83 | 103624 | 51.2 | |
| 14 Bromomethane | 94 | 2.560 | 2.560 | 0.0 | 87 | 34525 | 47.6 | |
| 15 Chloroethane | 64 | 2.633 | 2.633 | 0.0 | 91 | 34925 | 47.6 | |
| 17 Trichlorofluoromethane | 101 | 2.859 | 2.859 | 0.0 | 82 | 111649 | 47.8 | |
| 20 Acrolein | 56 | 3.193 | 3.193 | 0.0 | 96 | 447293 | 979.2 | |
| 21 1,1,2-Trichloro-1,2,2-trifluoroe | 101 | 3.230 | 3.230 | 0.0 | 80 | 105317 | 51.4 | |
| 22 1,1-Dichloroethene | 96 | 3.260 | 3.260 | 0.0 | 85 | 118357 | 51.0 | |
| 23 Acetone | 43 | 3.309 | 3.309 | 0.0 | 98 | 237145 | 231.6 | |
| 25 Iodomethane | 142 | 3.424 | 3.424 | 0.0 | 97 | 188494 | 51.4 | |
| 26 Carbon disulfide | 76 | 3.473 | 3.473 | 0.0 | 99 | 367705 | 51.9 | |
| 27 Methyl acetate | 43 | 3.534 | 3.534 | 0.0 | 92 | 176863 | 49.3 | |
| 29 Acetonitrile | 40 | 3.570 | 3.570 | 0.0 | 99 | 448221 | 1920.2 | |
| 30 Methylene Chloride | 84 | 3.649 | 3.649 | 0.0 | 85 | 143307 | 45.8 | |
| 32 Methyl tert-butyl ether | 73 | 3.808 | 3.808 | 0.0 | 87 | 380705 | 50.9 | |
| 34 trans-1,2-Dichloroethene | 96 | 3.838 | 3.838 | 0.0 | 96 | 142466 | 51.0 | |
| 33 Acrylonitrile | 53 | 3.856 | 3.856 | 0.0 | 99 | 315996 | 248.4 | |
| 37 Vinyl acetate | 43 | 4.160 | 4.160 | 0.0 | 97 | 1319958 | 250.4 | |
| 39 1,1-Dichloroethane | 63 | 4.179 | 4.179 | 0.0 | 84 | 227900 | 50.4 | |
| 44 2,2-Dichloropropane | 77 | 4.623 | 4.623 | 0.0 | 77 | 177059 | 51.0 | |
| 43 2-Butanone (MEK) | 43 | 4.623 | 4.623 | 0.0 | 100 | 410998 | 243.8 | |
| 45 cis-1,2-Dichloroethene | 96 | 4.635 | 4.635 | 0.0 | 69 | 155856 | 51.1 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 48 Chlorobromomethane | 128 | 4.848 | 4.848 | 0.0 | 88 | 82336 | 51.4 | |
| 49 Tetrahydrofuran | 42 | 4.860 | 4.860 | 0.0 | 90 | 275507 | 245.4 | |
| 50 Chloroform | 83 | 4.878 | 4.878 | 0.0 | 81 | 222379 | 50.8 | |
| 51 1,1,1-Trichloroethane | 97 | 5.024 | 5.024 | 0.0 | 92 | 193886 | 51.8 | |
| 52 Cyclohexane | 56 | 5.055 | 5.055 | 0.0 | 90 | 217552 | 51.5 | |
| 54 1,1-Dichloropropene | 75 | 5.140 | 5.140 | 0.0 | 94 | 171545 | 51.8 | |
| 55 Carbon tetrachloride | 117 | 5.158 | 5.158 | 0.0 | 79 | 171095 | 51.8 | |
| 57 Benzene | 78 | 5.328 | 5.328 | 0.0 | 97 | 531608 | 51.0 | |
| 58 1,2-Dichloroethane | 62 | 5.371 | 5.371 | 0.0 | 77 | 168093 | 51.4 | |
| 62 Trichloroethene | 95 | 5.858 | 5.858 | 0.0 | 90 | 142049 | 50.5 | |
| 64 Methylcyclohexane | 83 | 5.992 | 5.992 | 0.0 | 89 | 225462 | 52.0 | |
| 65 1,2-Dichloropropane | 63 | 6.077 | 6.077 | 0.0 | 93 | 132596 | 51.0 | |
| 67 Dibromomethane | 93 | 6.211 | 6.211 | 0.0 | 87 | 81508 | 52.1 | |
| 68 Dichlorobromomethane | 83 | 6.320 | 6.320 | 0.0 | 93 | 164151 | 52.0 | |
| 69 2-Chloroethyl vinyl ether | 63 | 6.527 | 6.527 | 0.0 | 93 | 474877 | 258.9 | |
| 72 cis-1,3-Dichloropropene | 75 | 6.703 | 6.703 | 0.0 | 90 | 209936 | 51.9 | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | 6.801 | 6.801 | 0.0 | 95 | 803635 | 245.3 | |
| 74 Toluene | 92 | 6.995 | 6.995 | 0.0 | 98 | 352236 | 50.3 | |
| 75 Ethyl methacrylate | 69 | 7.214 | 7.214 | 0.0 | 89 | 187022 | 51.1 | |
| 77 trans-1,3-Dichloropropene | 75 | 7.220 | 7.220 | 0.0 | 90 | 187156 | 51.5 | |
| 79 1,1,2-Trichloroethane | 83 | 7.415 | 7.415 | 0.0 | 84 | 97885 | 50.8 | |
| 81 Tetrachloroethene | 166 | 7.519 | 7.519 | 0.0 | 91 | 162580 | 50.8 | |
| 82 1,3-Dichloropropane | 76 | 7.585 | 7.585 | 0.0 | 90 | 202247 | 51.2 | |
| 80 2-Hexanone | 43 | 7.592 | 7.592 | 0.0 | 95 | 589583 | 244.7 | |
| 83 Chlorodibromomethane | 129 | 7.829 | 7.829 | 0.0 | 87 | 143347 | 53.0 | |
| 84 Ethylene Dibromide | 107 | 7.963 | 7.963 | 0.0 | 97 | 138559 | 51.0 | |
| 87 Chlorobenzene | 112 | 8.413 | 8.413 | 0.0 | 95 | 426794 | 50.7 | |
| 88 Ethylbenzene | 91 | 8.474 | 8.474 | 0.0 | 97 | 657158 | 50.7 | |
| 89 1,1,1,2-Tetrachloroethane | 131 | 8.492 | 8.492 | 0.0 | 90 | 150162 | 52.1 | |
| 90 m-Xylene & p-Xylene | 106 | 8.589 | 8.589 | 0.0 | 99 | 554840 | 101.2 | |
| 91 o-Xylene | 106 | 9.021 | 9.021 | 0.0 | 94 | 272741 | 50.8 | |
| 92 Styrene | 104 | 9.046 | 9.046 | 0.0 | 95 | 457819 | 51.3 | |
| 95 Bromoform | 173 | 9.319 | 9.319 | 0.0 | 98 | 98500 | 46.9 | |
| 94 Isopropylbenzene | 105 | 9.386 | 9.386 | 0.0 | 94 | 683314 | 50.9 | |
| 97 1,1,2,2-Tetrachloroethane | 83 | 9.757 | 9.757 | 0.0 | 87 | 175702 | 51.2 | |
| 101 Bromobenzene | 156 | 9.769 | 9.769 | 0.0 | 86 | 196217 | 51.1 | |
| 98 trans-1,4-Dichloro-2-butene | 53 | 9.800 | 9.800 | 0.0 | 56 | 234809 | 256.3 | |
| 99 N-Propylbenzene | 91 | 9.800 | 9.800 | 0.0 | 94 | 787273 | 50.9 | |
| 100 1,2,3-Trichloropropane | 110 | 9.812 | 9.812 | 0.0 | 55 | 57120 | 51.7 | |
| 103 2-Chlorotoluene | 126 | 9.934 | 9.934 | 0.0 | 98 | 184029 | 50.1 | |
| 102 1,3,5-Trimethylbenzene | 105 | 9.964 | 9.964 | 0.0 | 93 | 583934 | 50.8 | |
| 105 4-Chlorotoluene | 126 | 10.031 | 10.031 | 0.0 | 95 | 192743 | 51.0 | |
| 106 tert-Butylbenzene | 134 | 10.280 | 10.280 | 0.0 | 87 | 142396 | 50.9 | |
| 107 1,2,4-Trimethylbenzene | 105 | 10.329 | 10.329 | 0.0 | 94 | 586112 | 50.7 | |
| 109 sec-Butylbenzene | 105 | 10.481 | 10.481 | 0.0 | 93 | 747019 | 51.3 | |
| 110 4-Isopropyltoluene | 119 | 10.603 | 10.603 | 0.0 | 94 | 693839 | 51.5 | |
| 111 1,3-Dichlorobenzene | 146 | 10.639 | 10.639 | 0.0 | 95 | 369269 | 50.3 | |
| 113 1,4-Dichlorobenzene | 146 | 10.725 | 10.725 | 0.0 | 96 | 370670 | 49.8 | |
| 115 n-Butylbenzene | 91 | 10.974 | 10.974 | 0.0 | 93 | 543342 | 50.7 | |
| 116 1,2-Dichlorobenzene | 146 | 11.065 | 11.065 | 0.0 | 98 | 354526 | 50.5 | |
| 117 1,2-Dibromo-3-Chloropropane | 75 | 11.741 | 11.741 | 0.0 | 81 | 32898 | 53.3 | |
| 119 1,2,4-Trichlorobenzene | 180 | 12.385 | 12.385 | 0.0 | 94 | 238052 | 51.6 | |

Report Date: 11-Dec-2012 22:35:54 Chrom Revision: 2.0 22-Oct-2012 16:30:48
Data File: \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4226.D

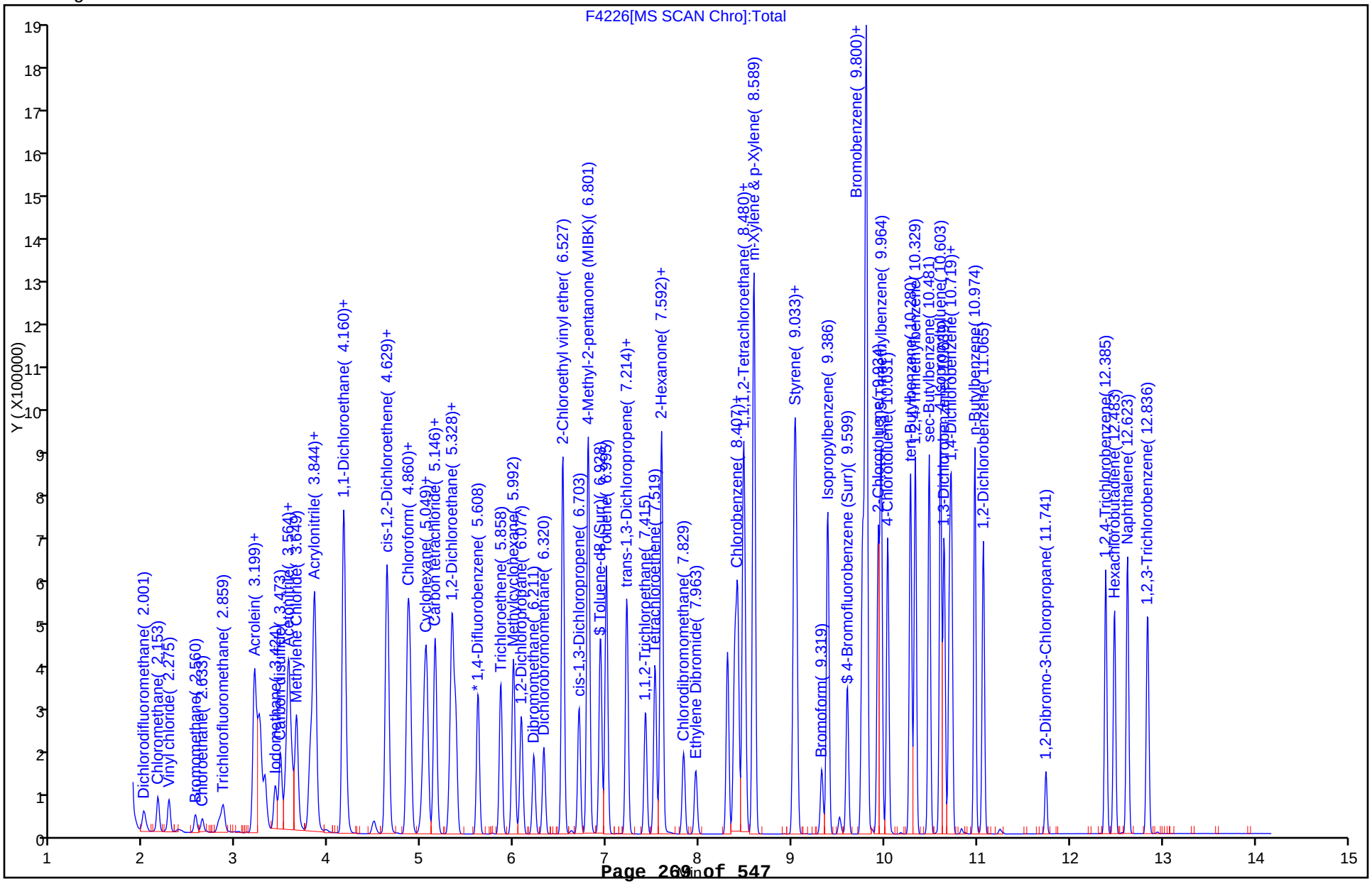
| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 120 Hexachlorobutadiene | 225 | 12.483 | 12.483 | 0.0 | 94 | 125572 | 51.6 | |
| 121 Naphthalene | 128 | 12.623 | 12.623 | 0.0 | 96 | 650215 | 49.9 | |
| 122 1,2,3-Trichlorobenzene | 180 | 12.842 | 12.842 | 0.0 | 97 | 217674 | 52.3 | |
| S 125 1,2-Dichloroethene, Total | 1 | | | | 0 | | 102.1 | |
| S 126 1,3-Dichloropropene, Total | 1 | | | | 0 | | 103.3 | |
| S 123 Total BTEX | 1 | | | | 0 | | 304.0 | |
| S 124 Xylenes, Total | 1 | | | | 0 | | 152.1 | |

Report Date: 11-Dec-2012 22:35:54 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4226.D | | |
| Injection Date: | 11-Dec-2012 17:34:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973F |
| Lims Batch ID: | 95189 | Lims Sample ID: | 7 |
| Operator ID: | Jmb | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:



Report Date: 11-Dec-2012 22:36:35 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4227.D | | |
| Lims ID: | STD6 | Client ID: | |
| Inject. Date: | 11-Dec-2012 17:59:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 6 |
| Sample ID: | STD6 | | |
| Misc. Info.: | 480-0017433-008 =480-0017433-008 | | |
| Operator: | Jmb | Instrument ID: | HP5973F |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 8 |
| Lims Batch ID: | 95189 | Lims Sample ID: | 8 |
| Sublist: | chrom-F-8260 SOIL*sub1 | | |
| Detector: | MS SCAN | | |

| | | | |
|---|---|---|---|
| Method: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F-8260 SOIL.m | | |
| Last Update: | 11-Dec-2012 22:36:35 | Calib Date: | 11-Dec-2012 21:23:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4235.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK007 | | |

First Level Reviewer: cwiklinc Date: 11-Dec-2012 22:36:34

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 5.608 | 5.608 | 0.0 | 93 | 364055 | 50.0 | |
| * 2 Chlorobenzene-d5 | 82 | 8.382 | 8.382 | 0.0 | 71 | 156964 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 10.700 | 10.700 | 0.0 | 65 | 177407 | 50.0 | |
| $ 4 1,2-Dichloroethane-d4 (Surr) | 67 | 5.304 | 5.304 | 0.0 | 95 | 129901 | 98.4 | |
| $ 5 Toluene-d8 (Surr) | 98 | 6.934 | 6.928 | 0.006 | 91 | 940596 | 99.3 | |
| $ 6 4-Bromofluorobenzene (Surr) | 174 | 9.599 | 9.599 | 0.0 | 94 | 319758 | 95.7 | |
| 10 Dichlorodifluoromethane | 85 | 2.001 | 2.001 | 0.0 | 87 | 220482 | 115.1 | |
| 12 Chloromethane | 50 | 2.159 | 2.153 | 0.006 | 88 | 208669 | 95.9 | |
| 13 Vinyl chloride | 62 | 2.280 | 2.275 | 0.006 | 84 | 212089 | 104.3 | |
| 14 Bromomethane | 94 | 2.560 | 2.560 | 0.0 | 89 | 68321 | 91.9 | |
| 15 Chloroethane | 64 | 2.633 | 2.633 | 0.0 | 94 | 69942 | 95.0 | |
| 17 Trichlorofluoromethane | 101 | 2.858 | 2.859 | -0.001 | 85 | 251097 | 106.9 | |
| 20 Acrolein | 56 | 3.193 | 3.193 | 0.0 | 98 | 920911 | 2005.9 | |
| 21 1,1,2-Trichloro-1,2,2-trifluoroe | 101 | 3.229 | 3.230 | -0.001 | 79 | 227457 | 110.4 | |
| 22 1,1-Dichloroethene | 96 | 3.260 | 3.260 | 0.0 | 84 | 245946 | 105.5 | |
| 23 Acetone | 43 | 3.309 | 3.309 | -0.001 | 98 | 518462 | 503.8 | |
| 25 Iodomethane | 142 | 3.424 | 3.424 | 0.0 | 97 | 379111 | 102.8 | |
| 26 Carbon disulfide | 76 | 3.479 | 3.473 | 0.006 | 99 | 751453 | 105.5 | |
| 27 Methyl acetate | 43 | 3.528 | 3.534 | -0.006 | 91 | 363032 | 100.6 | |
| 29 Acetonitrile | 40 | 3.564 | 3.570 | -0.006 | 99 | 922946 | 3933.9 | |
| 30 Methylene Chloride | 84 | 3.655 | 3.649 | 0.006 | 85 | 283952 | 90.2 | |
| 32 Methyl tert-butyl ether | 73 | 3.807 | 3.808 | -0.001 | 87 | 780914 | 104.0 | |
| 34 trans-1,2-Dichloroethene | 96 | 3.838 | 3.838 | 0.0 | 96 | 287594 | 102.5 | |
| 33 Acrylonitrile | 53 | 3.856 | 3.856 | 0.0 | 99 | 672705 | 526.1 | |
| 37 Vinyl acetate | 43 | 4.160 | 4.160 | 0.0 | 97 | 2623607 | 495.3 | |
| 39 1,1-Dichloroethane | 63 | 4.178 | 4.179 | -0.001 | 84 | 451109 | 99.3 | |
| 44 2,2-Dichloropropane | 77 | 4.629 | 4.623 | 0.006 | 62 | 359844 | 103.1 | |
| 43 2-Butanone (MEK) | 43 | 4.623 | 4.623 | 0.0 | 100 | 877074 | 517.6 | |
| 45 cis-1,2-Dichloroethene | 96 | 4.635 | 4.635 | 0.0 | 69 | 310879 | 101.3 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 48 Chlorobromomethane | 128 | 4.842 | 4.848 | -0.006 | 86 | 167261 | 103.9 | |
| 49 Tetrahydrofuran | 42 | 4.860 | 4.860 | 0.0 | 89 | 590290 | 523.1 | |
| 50 Chloroform | 83 | 4.878 | 4.878 | 0.0 | 80 | 446152 | 101.3 | |
| 51 1,1,1-Trichloroethane | 97 | 5.024 | 5.024 | 0.0 | 93 | 395542 | 105.1 | |
| 52 Cyclohexane | 56 | 5.054 | 5.055 | -0.001 | 89 | 467816 | 110.1 | |
| 54 1,1-Dichloropropene | 75 | 5.146 | 5.140 | 0.006 | 92 | 356227 | 106.9 | |
| 55 Carbon tetrachloride | 117 | 5.152 | 5.158 | -0.006 | 79 | 368251 | 111.0 | |
| 57 Benzene | 78 | 5.334 | 5.328 | 0.006 | 97 | 1066822 | 101.9 | |
| 58 1,2-Dichloroethane | 62 | 5.371 | 5.371 | 0.0 | 89 | 341335 | 103.8 | |
| 62 Trichloroethene | 95 | 5.858 | 5.858 | 0.0 | 91 | 290441 | 102.8 | |
| 64 Methylcyclohexane | 83 | 5.991 | 5.992 | -0.001 | 89 | 494480 | 113.4 | |
| 65 1,2-Dichloropropane | 63 | 6.077 | 6.077 | 0.0 | 94 | 271602 | 104.0 | |
| 67 Dibromomethane | 93 | 6.210 | 6.211 | -0.001 | 87 | 168466 | 107.2 | |
| 68 Dichlorobromomethane | 83 | 6.320 | 6.320 | 0.0 | 94 | 342339 | 108.0 | |
| 69 2-Chloroethyl vinyl ether | 63 | 6.527 | 6.527 | 0.0 | 92 | 978094 | 530.6 | |
| 72 cis-1,3-Dichloropropene | 75 | 6.703 | 6.703 | 0.0 | 90 | 434724 | 106.8 | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | 6.800 | 6.801 | -0.001 | 95 | 1687677 | 518.2 | |
| 74 Toluene | 92 | 6.995 | 6.995 | 0.0 | 99 | 715783 | 102.7 | |
| 75 Ethyl methacrylate | 69 | 7.214 | 7.214 | 0.0 | 90 | 396480 | 108.9 | |
| 77 trans-1,3-Dichloropropene | 75 | 7.220 | 7.220 | 0.0 | 93 | 391221 | 108.2 | |
| 79 1,1,2-Trichloroethane | 83 | 7.415 | 7.415 | 0.0 | 85 | 204153 | 106.6 | |
| 81 Tetrachloroethene | 166 | 7.524 | 7.519 | 0.005 | 91 | 335784 | 105.5 | |
| 82 1,3-Dichloropropane | 76 | 7.585 | 7.585 | 0.0 | 91 | 407980 | 103.9 | |
| 80 2-Hexanone | 43 | 7.591 | 7.592 | -0.001 | 94 | 1252430 | 522.8 | |
| 83 Chlorodibromomethane | 129 | 7.829 | 7.829 | 0.0 | 88 | 308178 | 114.5 | |
| 84 Ethylene Dibromide | 107 | 7.962 | 7.963 | -0.001 | 98 | 289898 | 107.4 | |
| 87 Chlorobenzene | 112 | 8.413 | 8.413 | 0.0 | 95 | 863143 | 103.1 | |
| 88 Ethylbenzene | 91 | 8.473 | 8.474 | -0.001 | 97 | 1313256 | 101.8 | |
| 89 1,1,1,2-Tetrachloroethane | 131 | 8.492 | 8.492 | 0.0 | 86 | 306583 | 106.9 | |
| 90 m-Xylene & p-Xylene | 106 | 8.589 | 8.589 | 0.0 | 99 | 1116009 | 204.8 | |
| 91 o-Xylene | 106 | 9.021 | 9.021 | 0.0 | 94 | 552134 | 103.5 | |
| 92 Styrene | 104 | 9.045 | 9.046 | -0.001 | 95 | 926031 | 104.4 | |
| 95 Bromoform | 173 | 9.319 | 9.319 | 0.0 | 98 | 219080 | 103.1 | |
| 94 Isopropylbenzene | 105 | 9.386 | 9.386 | 0.0 | 94 | 1389069 | 102.6 | |
| 97 1,1,2,2-Tetrachloroethane | 83 | 9.757 | 9.757 | 0.0 | 84 | 371058 | 107.3 | |
| 101 Bromobenzene | 156 | 9.769 | 9.769 | 0.0 | 86 | 396727 | 102.4 | |
| 98 trans-1,4-Dichloro-2-butene | 53 | 9.800 | 9.800 | 0.0 | 58 | 489407 | 529.9 | |
| 99 N-Propylbenzene | 91 | 9.800 | 9.800 | 0.0 | 95 | 1579358 | 101.2 | |
| 100 1,2,3-Trichloropropane | 110 | 9.812 | 9.812 | 0.0 | 60 | 117763 | 105.8 | |
| 103 2-Chlorotoluene | 126 | 9.927 | 9.934 | -0.007 | 98 | 378350 | 102.2 | |
| 102 1,3,5-Trimethylbenzene | 105 | 9.964 | 9.964 | 0.0 | 94 | 1184324 | 102.2 | |
| 105 4-Chlorotoluene | 126 | 10.031 | 10.031 | 0.0 | 95 | 390369 | 102.4 | |
| 106 tert-Butylbenzene | 134 | 10.280 | 10.280 | 0.0 | 88 | 295616 | 104.8 | |
| 107 1,2,4-Trimethylbenzene | 105 | 10.329 | 10.329 | 0.0 | 85 | 1187910 | 102.0 | |
| 109 sec-Butylbenzene | 105 | 10.481 | 10.481 | 0.0 | 93 | 1525777 | 104.0 | |
| 110 4-Isopropyltoluene | 119 | 10.603 | 10.603 | 0.0 | 97 | 1417023 | 104.2 | |
| 111 1,3-Dichlorobenzene | 146 | 10.645 | 10.639 | 0.006 | 95 | 752441 | 101.8 | |
| 113 1,4-Dichlorobenzene | 146 | 10.718 | 10.725 | -0.007 | 95 | 768036 | 102.3 | |
| 115 n-Butylbenzene | 91 | 10.974 | 10.974 | 0.0 | 94 | 1137278 | 105.3 | |
| 116 1,2-Dichlorobenzene | 146 | 11.065 | 11.065 | 0.0 | 98 | 729794 | 103.0 | |
| 117 1,2-Dibromo-3-Chloropropane | 75 | 11.740 | 11.741 | -0.001 | 87 | 73989 | 118.8 | |
| 119 1,2,4-Trichlorobenzene | 180 | 12.385 | 12.385 | 0.0 | 94 | 505698 | 108.8 | |

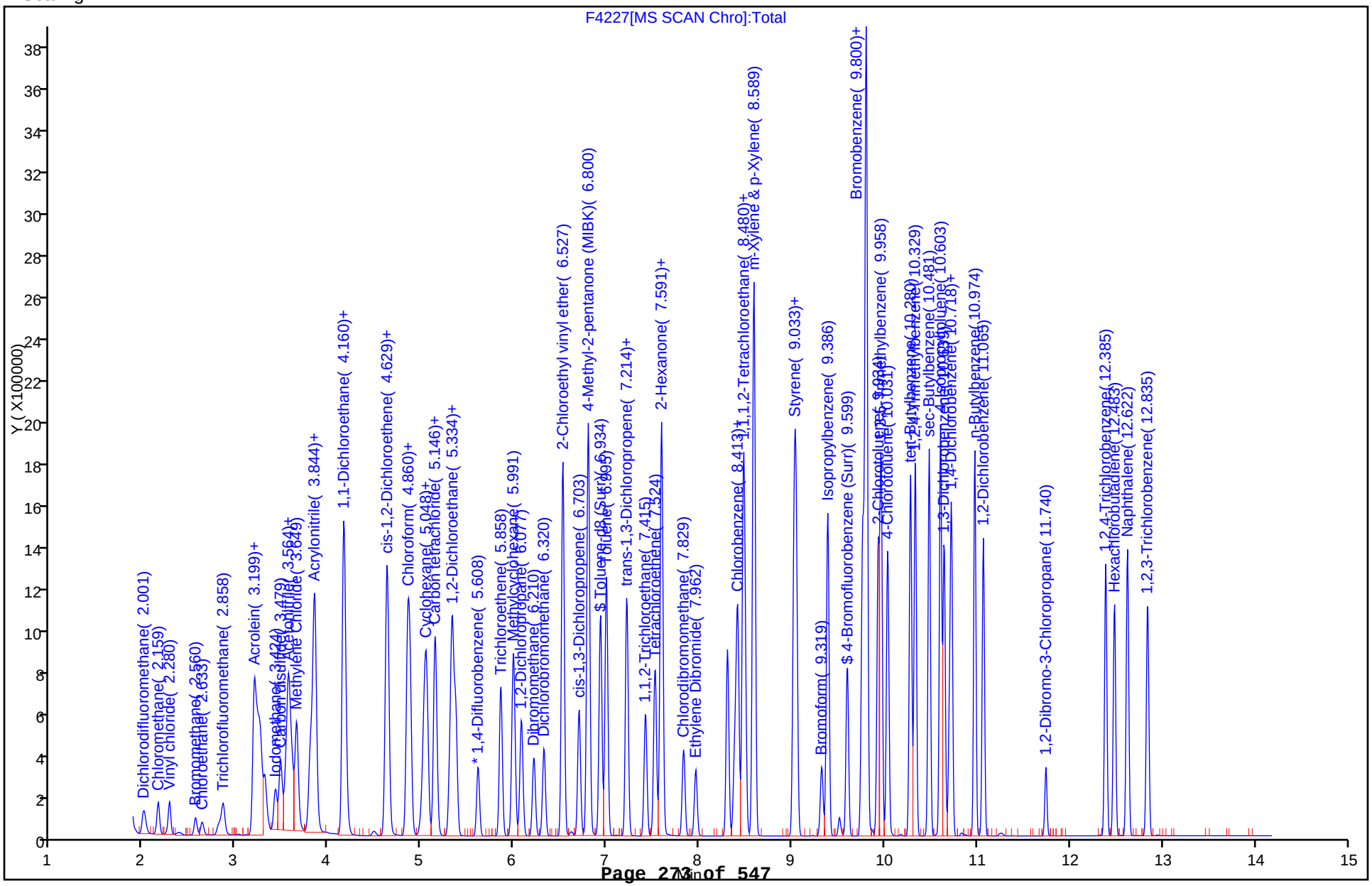
Report Date: 11-Dec-2012 22:36:35 Chrom Revision: 2.0 22-Oct-2012 16:30:48
Data File: \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4227.D

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 120 Hexachlorobutadiene | 225 | 12.483 | 12.483 | 0.0 | 95 | 264774 | 108.0 | |
| 121 Naphthalene | 128 | 12.622 | 12.623 | -0.001 | 96 | 1402699 | 106.9 | |
| 122 1,2,3-Trichlorobenzene | 180 | 12.841 | 12.842 | -0.001 | 94 | 464869 | 110.9 | |
| S 125 1,2-Dichloroethene, Total | 1 | | | | 0 | | 203.8 | |
| S 126 1,3-Dichloropropene, Total | 1 | | | | 0 | | 215.1 | |
| S 123 Total BTEX | 1 | | | | 0 | | 614.8 | |
| S 124 Xylenes, Total | 1 | | | | 0 | | 308.3 | |

Report Date: 11-Dec-2012 22:36:35 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4227.D | | |
| Injection Date: | 11-Dec-2012 17:59:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973F |
| Lims Batch ID: | 95189 | Lims Sample ID: | 8 |
| Operator ID: | Jmb | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Y Scaling: | | | |



Report Date: 11-Dec-2012 22:38:03 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4228.D | | |
| Lims ID: | STD7 | Client ID: | |
| Inject. Date: | 11-Dec-2012 18:24:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 7 |
| Sample ID: | STD7 | | |
| Misc. Info.: | 480-0017433-009 =480-0017433-009 | | |
| Operator: | Jmb | Instrument ID: | HP5973F |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 9 |
| Lims Batch ID: | 95189 | Lims Sample ID: | 9 |
| Sublist: | chrom-F-8260 SOIL*sub1 | | |
| Detector: | MS SCAN | | |

| | | | |
|---|---|---|---|
| Method: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F-8260 SOIL.m | | |
| Last Update: | 11-Dec-2012 22:38:03 | Calib Date: | 11-Dec-2012 21:23:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4235.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK007 | | |

First Level Reviewer: cwiklinc Date: 11-Dec-2012 22:38:03

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 5.608 | 5.608 | 0.0 | 93 | 366255 | 50.0 | |
| * 2 Chlorobenzene-d5 | 82 | 8.382 | 8.382 | 0.0 | 69 | 157659 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 10.700 | 10.700 | 0.0 | 90 | 175338 | 50.0 | |
| $ 4 1,2-Dichloroethane-d4 (Surr) | 67 | 5.304 | 5.304 | 0.0 | 96 | 264454 | 199.1 | |
| $ 5 Toluene-d8 (Surr) | 98 | 6.934 | 6.928 | 0.006 | 91 | 1925927 | 202.5 | |
| $ 6 4-Bromofluorobenzene (Surr) | 174 | 9.599 | 9.599 | 0.0 | 94 | 667749 | 199.0 | |
| 10 Dichlorodifluoromethane | 85 | 1.994 | 2.001 | -0.007 | 88 | 442832 | 229.8 | |
| 12 Chloromethane | 50 | 2.152 | 2.153 | -0.001 | 89 | 404831 | 184.9 | |
| 13 Vinyl chloride | 62 | 2.274 | 2.275 | 0.0 | 84 | 409766 | 200.3 | |
| 14 Bromomethane | 94 | 2.560 | 2.560 | 0.0 | 89 | 154747 | 204.6 | |
| 15 Chloroethane | 64 | 2.627 | 2.633 | -0.006 | 95 | 155633 | 210.4 | |
| 17 Trichlorofluoromethane | 101 | 2.852 | 2.859 | -0.007 | 86 | 524435 | 222.0 | |
| 20 Acrolein | 56 | 3.187 | 3.193 | -0.006 | 97 | 1730426 | 3746.5 | |
| 21 1,1,2-Trichloro-1,2,2-trifluoroe | 101 | 3.223 | 3.230 | -0.007 | 81 | 483573 | 233.3 | |
| 22 1,1-Dichloroethene | 96 | 3.254 | 3.260 | -0.006 | 84 | 492026 | 209.8 | |
| 23 Acetone | 43 | 3.302 | 3.309 | -0.007 | 98 | 963963 | 931.1 | |
| 25 Iodomethane | 142 | 3.418 | 3.424 | -0.006 | 97 | 780591 | 210.4 | |
| 26 Carbon disulfide | 76 | 3.473 | 3.473 | 0.0 | 99 | 1572415 | 219.4 | |
| 27 Methyl acetate | 43 | 3.521 | 3.534 | -0.013 | 91 | 685397 | 188.9 | |
| 29 Acetonitrile | 40 | 3.558 | 3.570 | -0.012 | 100 | 1763438 | 7471.2 | |
| 30 Methylene Chloride | 84 | 3.649 | 3.649 | 0.0 | 85 | 550644 | 173.9 | |
| 32 Methyl tert-butyl ether | 73 | 3.801 | 3.808 | -0.007 | 88 | 1530040 | 202.5 | |
| 34 trans-1,2-Dichloroethene | 96 | 3.832 | 3.838 | -0.006 | 96 | 563251 | 199.5 | |
| 33 Acrylonitrile | 53 | 3.850 | 3.856 | -0.006 | 99 | 1260675 | 980.0 | |
| 37 Vinyl acetate | 43 | 4.154 | 4.160 | -0.006 | 97 | 4728850 | 887.4 | |
| 39 1,1-Dichloroethane | 63 | 4.172 | 4.179 | -0.007 | 85 | 866184 | 189.5 | |
| 44 2,2-Dichloropropane | 77 | 4.622 | 4.623 | -0.001 | 77 | 704298 | 200.6 | |
| 43 2-Butanone (MEK) | 43 | 4.616 | 4.623 | -0.007 | 100 | 1591481 | 933.5 | |
| 45 cis-1,2-Dichloroethene | 96 | 4.635 | 4.635 | 0.0 | 69 | 603855 | 195.6 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 48 Chlorobromomethane | 128 | 4.841 | 4.848 | -0.007 | 89 | 326758 | 201.7 | |
| 49 Tetrahydrofuran | 42 | 4.854 | 4.860 | -0.006 | 88 | 1074811 | 946.8 | |
| 50 Chloroform | 83 | 4.878 | 4.878 | 0.0 | 81 | 866684 | 195.6 | |
| 51 1,1,1-Trichloroethane | 97 | 5.024 | 5.024 | 0.0 | 92 | 790181 | 208.7 | |
| 52 Cyclohexane | 56 | 5.054 | 5.055 | -0.001 | 90 | 974753 | 228.1 | |
| 54 1,1-Dichloropropene | 75 | 5.140 | 5.140 | 0.0 | 94 | 707497 | 211.1 | |
| 55 Carbon tetrachloride | 117 | 5.152 | 5.158 | -0.006 | 80 | 741654 | 222.1 | |
| 57 Benzene | 78 | 5.328 | 5.328 | 0.0 | 97 | 2075008 | 197.0 | |
| 58 1,2-Dichloroethane | 62 | 5.365 | 5.371 | -0.006 | 85 | 651053 | 196.9 | |
| 62 Trichloroethene | 95 | 5.851 | 5.858 | -0.007 | 91 | 579926 | 203.9 | |
| 64 Methylcyclohexane | 83 | 5.991 | 5.992 | -0.001 | 88 | 1041439 | 237.4 | |
| 65 1,2-Dichloropropane | 63 | 6.076 | 6.077 | -0.001 | 95 | 534421 | 203.4 | |
| 67 Dibromomethane | 93 | 6.210 | 6.211 | -0.001 | 87 | 324712 | 205.3 | |
| 68 Dichlorobromomethane | 83 | 6.320 | 6.320 | 0.0 | 94 | 679600 | 213.1 | |
| 69 2-Chloroethyl vinyl ether | 63 | 6.527 | 6.527 | 0.0 | 93 | 1853822 | 999.7 | |
| 72 cis-1,3-Dichloropropene | 75 | 6.697 | 6.703 | -0.006 | 90 | 858101 | 209.6 | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | 6.800 | 6.801 | -0.001 | 94 | 3022610 | 923.9 | |
| 74 Toluene | 92 | 6.995 | 6.995 | 0.0 | 99 | 1398766 | 199.8 | |
| 75 Ethyl methacrylate | 69 | 7.214 | 7.214 | 0.0 | 90 | 774283 | 211.7 | |
| 77 trans-1,3-Dichloropropene | 75 | 7.220 | 7.220 | 0.0 | 92 | 757354 | 208.6 | |
| 79 1,1,2-Trichloroethane | 83 | 7.415 | 7.415 | 0.0 | 85 | 394778 | 205.2 | |
| 81 Tetrachloroethene | 166 | 7.518 | 7.519 | -0.001 | 91 | 669886 | 209.5 | |
| 82 1,3-Dichloropropane | 76 | 7.585 | 7.585 | 0.0 | 90 | 772613 | 195.9 | |
| 80 2-Hexanone | 43 | 7.591 | 7.592 | -0.001 | 93 | 2234613 | 928.6 | |
| 83 Chlorodibromomethane | 129 | 7.828 | 7.829 | -0.001 | 87 | 615206 | 227.6 | |
| 84 Ethylene Dibromide | 107 | 7.962 | 7.963 | -0.001 | 98 | 557916 | 205.8 | |
| 87 Chlorobenzene | 112 | 8.412 | 8.413 | -0.001 | 97 | 1684536 | 200.3 | |
| 88 Ethylbenzene | 91 | 8.473 | 8.474 | -0.001 | 97 | 2529058 | 195.2 | |
| 89 1,1,1,2-Tetrachloroethane | 131 | 8.492 | 8.492 | 0.0 | 85 | 601453 | 208.8 | |
| 90 m-Xylene & p-Xylene | 106 | 8.589 | 8.589 | 0.0 | 98 | 2130792 | 389.3 | |
| 91 o-Xylene | 106 | 9.021 | 9.021 | 0.0 | 94 | 1060897 | 198.0 | |
| 92 Styrene | 104 | 9.045 | 9.046 | -0.001 | 95 | 1785058 | 200.3 | |
| 95 Bromoform | 173 | 9.319 | 9.319 | 0.0 | 99 | 435460 | 202.6 | |
| 94 Isopropylbenzene | 105 | 9.386 | 9.386 | 0.0 | 94 | 2686058 | 200.8 | |
| 97 1,1,2,2-Tetrachloroethane | 83 | 9.757 | 9.757 | 0.0 | 84 | 688231 | 201.3 | |
| 101 Bromobenzene | 156 | 9.769 | 9.769 | 0.0 | 86 | 763335 | 199.4 | |
| 98 trans-1,4-Dichloro-2-butene | 53 | 9.800 | 9.800 | 0.0 | 62 | 886833 | 971.5 | |
| 99 N-Propylbenzene | 91 | 9.800 | 9.800 | 0.0 | 95 | 2885316 | 187.1 | |
| 100 1,2,3-Trichloropropane | 110 | 9.812 | 9.812 | 0.0 | 68 | 211807 | 192.5 | |
| 103 2-Chlorotoluene | 126 | 9.927 | 9.934 | -0.007 | 98 | 732701 | 200.2 | |
| 102 1,3,5-Trimethylbenzene | 105 | 9.964 | 9.964 | 0.0 | 95 | 2255560 | 196.9 | |
| 105 4-Chlorotoluene | 126 | 10.031 | 10.031 | 0.0 | 95 | 760049 | 201.7 | |
| 106 tert-Butylbenzene | 134 | 10.280 | 10.280 | 0.0 | 88 | 574625 | 206.1 | |
| 107 1,2,4-Trimethylbenzene | 105 | 10.329 | 10.329 | 0.0 | 84 | 2254544 | 195.9 | |
| 109 sec-Butylbenzene | 105 | 10.481 | 10.481 | 0.0 | 93 | 2900570 | 200.1 | |
| 110 4-Isopropyltoluene | 119 | 10.603 | 10.603 | 0.0 | 94 | 2674070 | 199.0 | |
| 111 1,3-Dichlorobenzene | 146 | 10.645 | 10.639 | 0.006 | 95 | 1437349 | 196.7 | |
| 113 1,4-Dichlorobenzene | 146 | 10.724 | 10.725 | -0.001 | 96 | 1461341 | 197.0 | |
| 115 n-Butylbenzene | 91 | 10.974 | 10.974 | 0.0 | 93 | 2157220 | 202.2 | |
| 116 1,2-Dichlorobenzene | 146 | 11.065 | 11.065 | 0.0 | 98 | 1384765 | 197.8 | |
| 117 1,2-Dibromo-3-Chloropropane | 75 | 11.740 | 11.741 | -0.001 | 91 | 133001 | 216.1 | |
| 119 1,2,4-Trichlorobenzene | 180 | 12.385 | 12.385 | 0.0 | 94 | 921002 | 200.5 | |

Report Date: 11-Dec-2012 22:38:03 Chrom Revision: 2.0 22-Oct-2012 16:30:48
Data File: \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4228.D

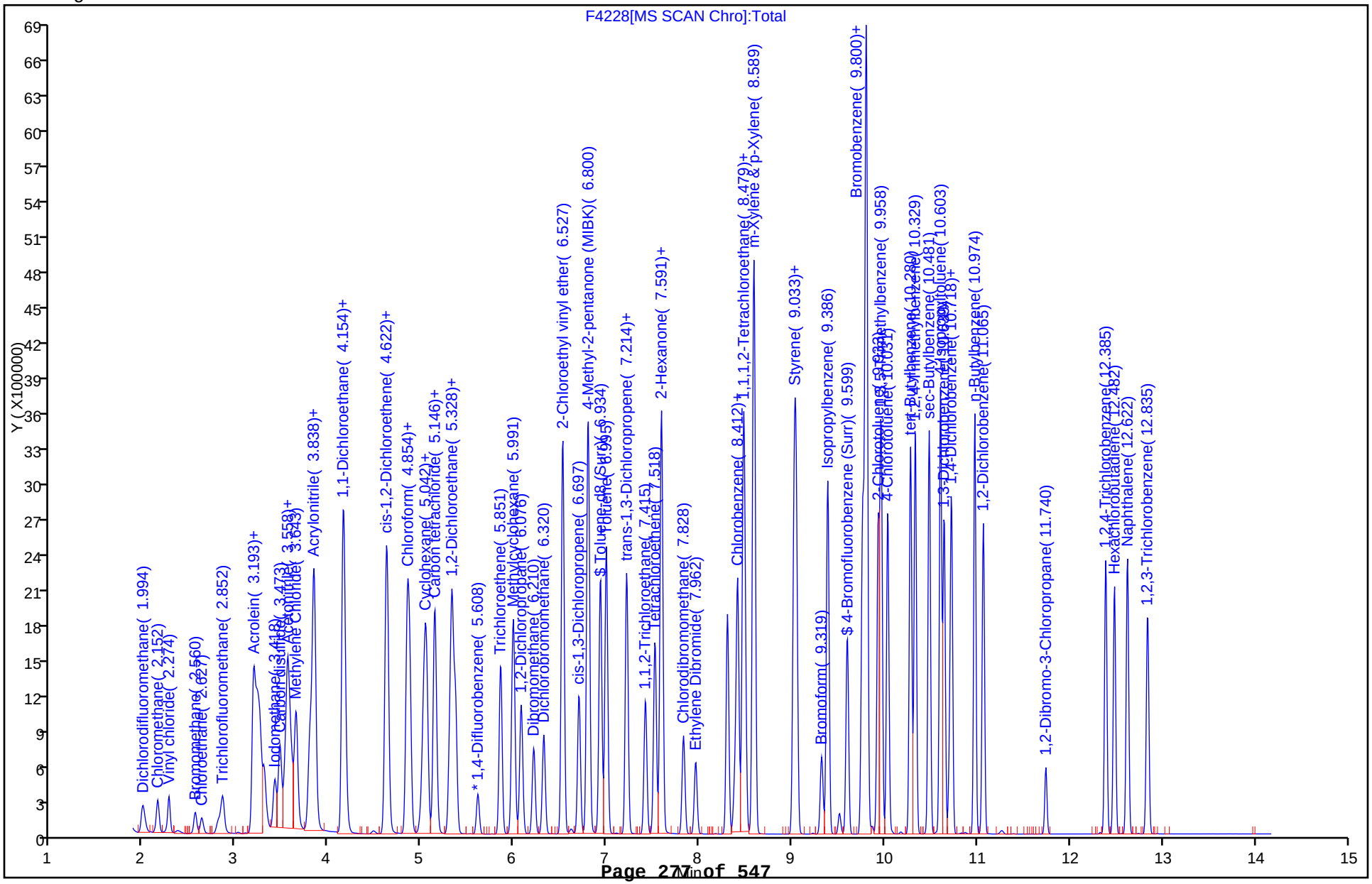
| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 120 Hexachlorobutadiene | 225 | 12.482 | 12.483 | -0.001 | 95 | 491346 | 202.8 | |
| 121 Naphthalene | 128 | 12.622 | 12.623 | -0.001 | 96 | 2373752 | 183.0 | |
| 122 1,2,3-Trichlorobenzene | 180 | 12.841 | 12.842 | -0.001 | 94 | 792418 | 191.3 | |
| S 125 1,2-Dichloroethene, Total | 1 | | | | 0 | | 395.2 | |
| S 126 1,3-Dichloropropene, Total | 1 | | | | 0 | | 418.2 | |
| S 123 Total BTEX | 1 | | | | 0 | | 1179.4 | |
| S 124 Xylenes, Total | 1 | | | | 0 | | 587.4 | |

Report Date: 11-Dec-2012 22:38:03 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4228.D | | |
| Injection Date: | 11-Dec-2012 18:24:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973F |
| Lims Batch ID: | 95189 | Lims Sample ID: | 9 |
| Operator ID: | Jmb | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:



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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1 Analy Batch No.: 95189

SDG No.:

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

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

Calibration Files:

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

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Ethyl ether | 0.3068<br>0.2768 | 0.3055<br>0.2836 | 0.3586 | 0.2939 | 0.3198 | Ave | | 0.3064 | | | | 8.9 | | 15.0 | | | |
| 3-Chloro-1-propene | 1.5110<br>0.5605 | 0.7593<br>0.5807 | 0.7503 | 0.5937 | 0.6034 | Lin1 | 1.8475 | 0.5584 | | | | | | | 0.9960 | | 0.9900 |
| 2-Methyl-2-propanol | 0.0728<br>0.0657 | 0.0727<br>0.0646 | 0.0807 | 0.0729 | 0.0737 | Ave | | 0.0719 | | | | 7.5 | | 15.0 | | | |
| Halothane | 0.1811<br>0.1997 | 0.2031<br>0.2199 | 0.2343 | 0.2081 | 0.2203 | Ave | | 0.2095 | | | | 8.2 | | 15.0 | | | |
| Isopropyl ether | 1.2315<br>1.1763 | 1.2226<br>1.2047 | 1.3662 | 1.2347 | 1.2718 | Ave | | 1.2440 | | | | 4.9 | | 15.0 | | | |
| Tert-butyl ethyl ether | 1.1447<br>1.0457 | 1.1635<br>1.1067 | 1.2427 | 1.1609 | 1.1706 | Ave | | 1.1478 | | | | 5.3 | | 15.0 | | | |
| Propionitrile | 0.0713<br>0.0710 | 0.0702<br>0.0711 | 0.0829 | 0.0754 | 0.0770 | Ave | | 0.0741 | | | | 6.3 | | 15.0 | | | |
| Tert-amyl methyl ether | 1.0009<br>0.9531 | 0.9780<br>1.0097 | 1.0835 | 1.0060 | 1.0490 | Ave | | 1.0115 | | | | 4.3 | | 15.0 | | | |
| n-Heptane | 0.5994<br>0.5919 | 0.5571<br>0.5427 | 0.8198 | 0.6145 | 0.6165 | Ave | | 0.6203 | | | | 15.0 | | 15.0 | | | |
| 2,4,4-Trimethyl-1-pentene | 0.3668<br>0.3961 | 0.4041<br>0.1561 | 0.4676 | 0.4001 | 0.4161 | Ave | | 0.3724 | | | | 27.0 | * | 15.0 | | | |
| 2,4,4-Trimethyl-2-pentene | 0.6955<br>0.7656 | 0.5761<br>0.8209 | 0.9649 | 0.8929 | 0.8000 | Lin1 | -0.206 | 0.8111 | | | | | | | 0.9960 | | 0.9900 |
| 1,4-Dioxane | 0.0150<br>0.0142 | 0.0144<br>0.0143 | 0.0162 | 0.0155 | 0.0154 | Ave | | 0.0150 | | | | 4.9 | | 15.0 | | | |
| 2-Nitropropane | 0.2488<br>0.2727 | 0.2443<br>0.2755 | 0.2659 | 0.2700 | 0.2845 | Ave | | 0.2659 | | | | 5.5 | | 15.0 | | | |

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1 Analy Batch No.: 95189

SDG No.:

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

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

Calibration Files:

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

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/KG) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Ethyl ether | DFB | Ave | 5362<br>211536 | 10861<br>407331 | 25292 | 41272 | 111099 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| 3-Chloro-1-propene | DFB | Lin1 | 26409<br>428324 | 26990<br>833905 | 52914 | 83375 | 209623 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| 2-Methyl-2-propanol | DFB | Ave | 25430<br>1004834 | 51660<br>1854046 | 113887 | 204745 | 511931 | 50.0<br>2000 | 100<br>4000 | 200 | 400 | 1000 |
| Halothane | DFB | Ave | 3165<br>152642 | 7218<br>315729 | 16523 | 29221 | 76536 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| Isopropyl ether | DFB | Ave | 21524<br>898966 | 43459<br>1730032 | 96345 | 173380 | 441816 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| Tert-butyl ethyl ether | DFB | Ave | 20006<br>799155 | 41356<br>1589261 | 87637 | 163015 | 406662 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| Propionitrile | DFB | Ave | 12468<br>542501 | 24957<br>1020754 | 58478 | 105946 | 267490 | 25.0<br>1000 | 50.0<br>2000 | 100 | 200 | 500 |
| Tert-amyl methyl ether | DFB | Ave | 17493<br>728406 | 34763<br>1450064 | 76408 | 141274 | 364398 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| n-Heptane | DFB | Ave | 10476<br>452341 | 19801<br>779322 | 57815 | 86295 | 214165 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| 2,4,4-Trimethyl-1-pentene | DFB | Ave | 6410<br>302668 | 14365<br>224122 | 32977 | 56183 | 144550 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| 2,4,4-Trimethyl-2-pentene | DFB | Lin1 | 12155<br>585052 | 20479<br>1178831 | 68049 | 125383 | 277895 | 2.50<br>100 | 5.00<br>200 | 10.0 | 20.0 | 50.0 |
| 1,4-Dioxane | CBZ | Ave | 4424<br>189764 | 8796<br>358550 | 19590 | 37449 | 93259 | 100<br>4000 | 200<br>8000 | 400 | 800 | 2000 |
| 2-Nitropropane | DCB | Ave | 9934<br>492012 | 19879<br>940308 | 43767 | 88379 | 236210 | 12.5<br>500 | 25.0<br>1000 | 50.0 | 100 | 250 |

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

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

TestAmerica Buffalo
Target Compound Quantitation Report

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

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

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

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

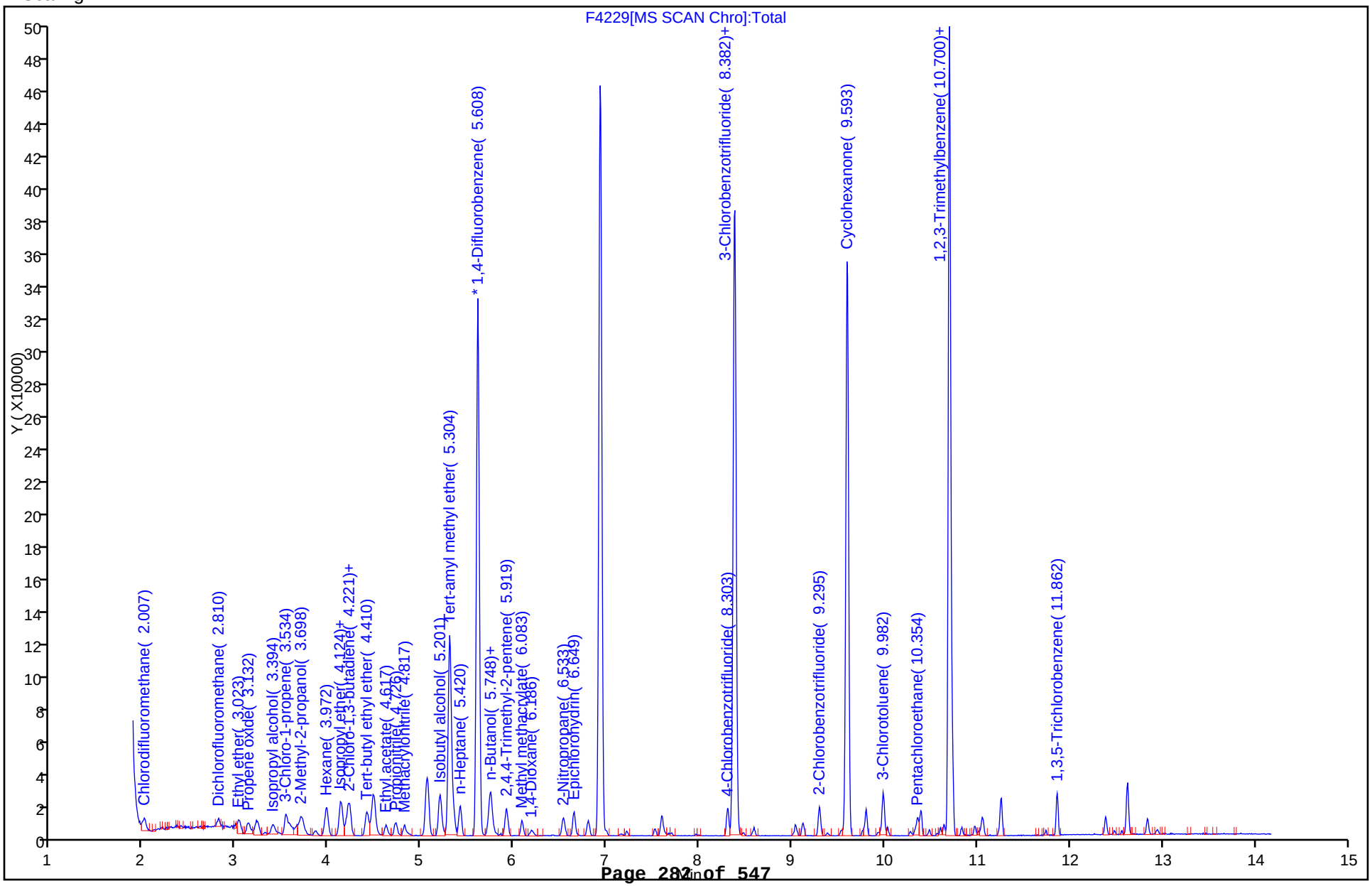
| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 86 4-Chlorobenzotrifluoride | 180 | 8.303 | 8.309 | -0.006 | 30 | 10527 | 0 | |
| 85 3-Chlorobenzotrifluoride | 180 | 8.358 | 8.364 | -0.006 | 19 | 10483 | 0 | |
| 93 2-Chlorobenzotrifluoride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

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

TestAmerica Buffalo

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

Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

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

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

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

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

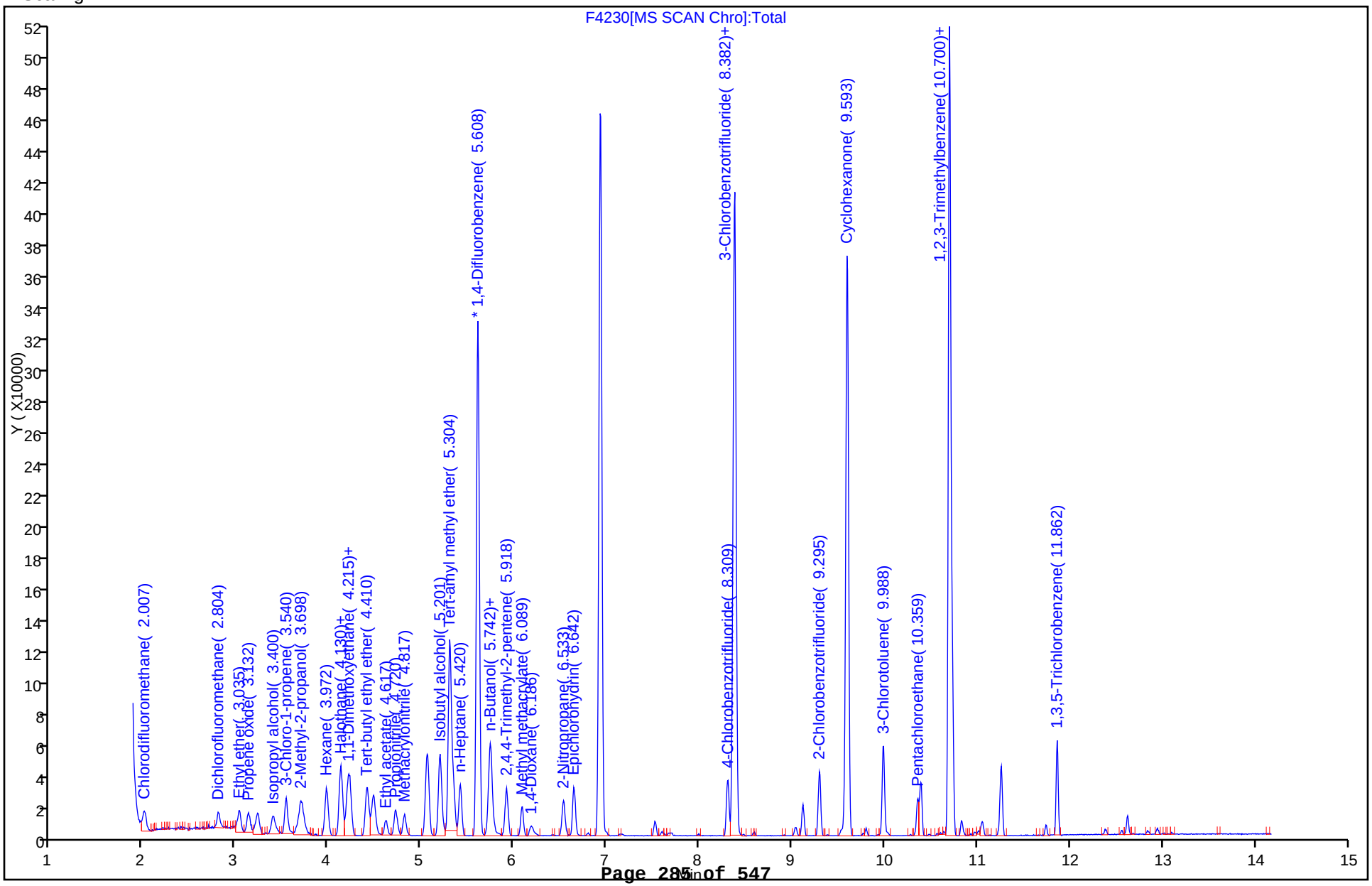
| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 86 4-Chlorobenzotrifluoride | 180 | 8.309 | 8.309 | 0.0 | 50 | 21008 | 0 | |
| 85 3-Chlorobenzotrifluoride | 180 | 8.364 | 8.364 | 0.0 | 59 | 20537 | 0 | |
| 93 2-Chlorobenzotrifluoride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

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

TestAmerica Buffalo

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

Y Scaling:



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

TestAmerica Buffalo
Target Compound Quantitation Report

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

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

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

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

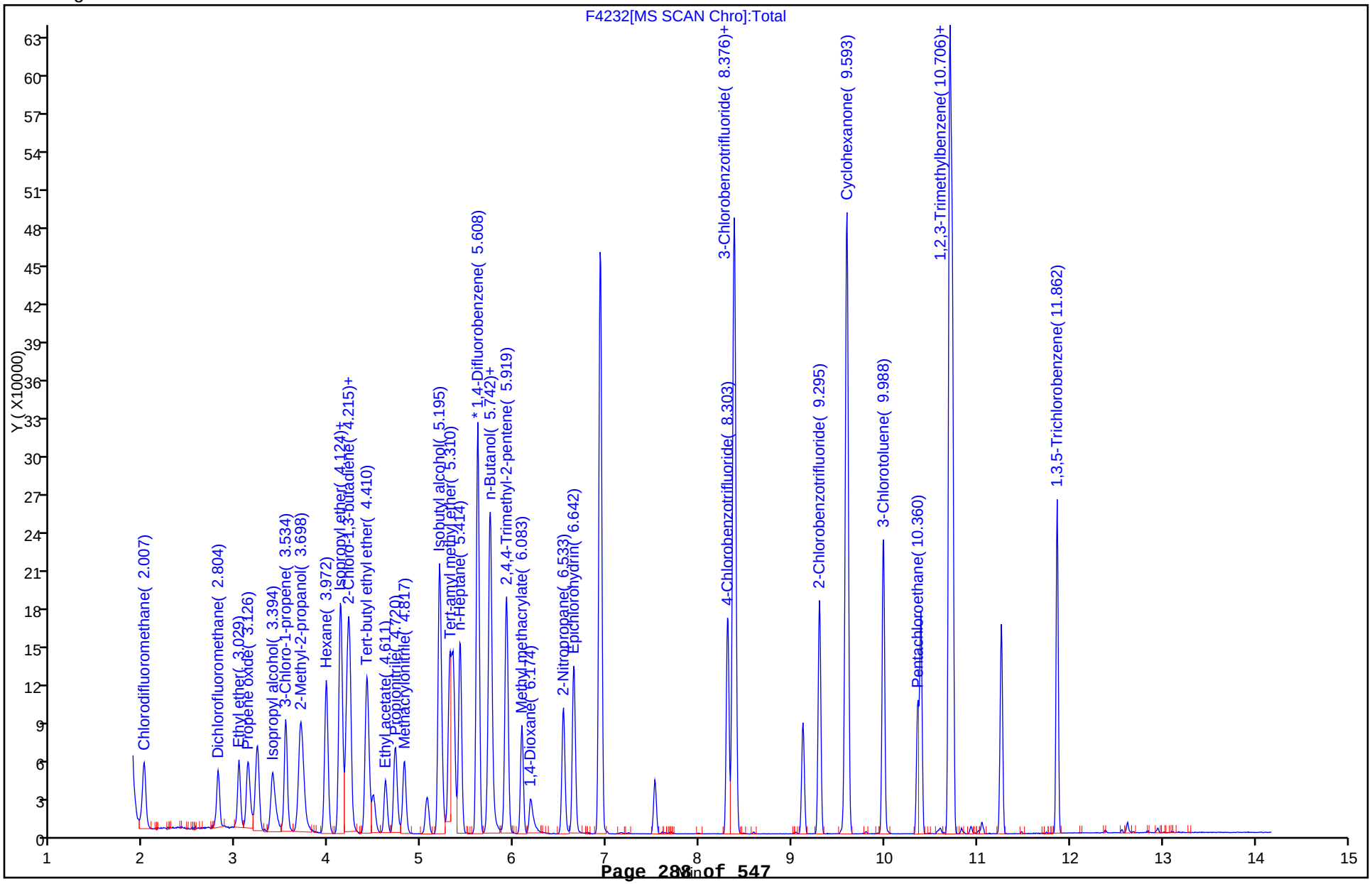
| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 86 4-Chlorobenzotrifluoride | 180 | 8.303 | 8.309 | -0.006 | 87 | 87432 | 0 | |
| 85 3-Chlorobenzotrifluoride | 180 | 8.364 | 8.364 | 0.0 | 88 | 86473 | 0 | |
| 93 2-Chlorobenzotrifluoride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

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

TestAmerica Buffalo

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

Y Scaling:



Report Date: 11-Dec-2012 22:42:52 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4233.D | | |
| Lims ID: | STD12 | Client ID: | |
| Inject. Date: | 11-Dec-2012 20:32:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 5 |
| Sample ID: | STD12 | | |
| Misc. Info.: | 480-0017433-014 =480-0017433-014 | | |
| Operator: | Jmb | Instrument ID: | HP5973F |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 14 |
| Lims Batch ID: | 95189 | Lims Sample ID: | 14 |
| Sublist: | chrom-F-8260 SOIL*sub15 | | |
| Detector: | MS SCAN | | |

| | | | |
|---|---|---|---|
| Method: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F-8260 SOIL.m | | |
| Last Update: | 11-Dec-2012 22:42:52 | Calib Date: | 11-Dec-2012 21:23:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4235.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK007 | | |

First Level Reviewer: cwiklinc Date: 11-Dec-2012 22:42:52

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 5.608 | 5.608 | 0.0 | 93 | 347387 | 50.0 | |
| * 2 Chlorobenzene-d5 | 82 | 8.382 | 8.382 | 0.0 | 82 | 151334 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 10.700 | 10.700 | 0.0 | 93 | 166037 | 50.0 | |
| 11 Chlorodifluoromethane | 51 | 2.013 | 2.013 | 0.0 | 78 | 130787 | 0 | |
| 16 Dichlorofluoromethane | 67 | 2.810 | 2.810 | 0.0 | 82 | 148525 | 0 | |
| 18 Ethyl ether | 59 | 3.035 | 3.035 | 0.0 | 91 | 111099 | 52.9 | |
| 19 Propene oxide | 58 | 3.132 | 3.132 | 0.0 | 94 | 189432 | 0 | |
| 24 Isopropyl alcohol | 45 | 3.394 | 3.394 | 0.0 | 99 | 307619 | 0 | |
| 28 3-Chloro-1-propene | 41 | 3.540 | 3.540 | 0.0 | 91 | 209623 | 50.8 | |
| 31 2-Methyl-2-propanol | 59 | 3.698 | 3.698 | 0.0 | 98 | 511931 | 1031.1 | |
| 35 Hexane | 57 | 3.972 | 3.972 | 0.0 | 91 | 212320 | 0 | |
| 134 Halothane | 117 | 4.130 | 4.130 | 0.0 | 0 | 76536 | 53.6 | |
| 36 Isopropyl ether | 45 | 4.130 | 4.130 | 0.0 | 94 | 441816 | 51.2 | |
| 38 1,1-Dimethoxyethane | 75 | 4.203 | 4.203 | 0.0 | 94 | 181288 | 0 | |
| 40 2-Chloro-1,3-butadiene | 53 | 4.227 | 4.227 | 0.0 | 89 | 186609 | 0 | |
| 41 Tert-butyl ethyl ether | 59 | 4.416 | 4.416 | 0.0 | 97 | 406662 | 50.8 | |
| 42 Ethyl acetate | 43 | 4.611 | 4.611 | 0.0 | 98 | 162860 | 0 | |
| 46 Propionitrile | 54 | 4.720 | 4.720 | 0.0 | 99 | 267490 | 522.0 | |
| 47 Methacrylonitrile | 41 | 4.817 | 4.817 | 0.0 | 92 | 98120 | 0 | |
| 53 Isobutyl alcohol | 43 | 5.195 | 5.195 | 0.0 | 95 | 480986 | 0 | |
| 56 Tert-amyl methyl ether | 73 | 5.347 | 5.347 | 0.0 | 98 | 364398 | 52.0 | |
| 59 n-Heptane | 43 | 5.420 | 5.420 | 0.0 | 92 | 214165 | 50.9 | |
| 136 2,4,4-Trimethyl-1-pentene | 55 | 5.742 | 5.742 | 0.0 | 0 | 144550 | 56.8 | |
| 60 n-Butanol | 56 | 5.742 | 5.742 | 0.0 | 89 | 387690 | 0 | |
| 135 2,4,4-Trimethyl-2-pentene | 97 | 5.919 | 5.919 | 0.0 | 0 | 277895 | 51.7 | |
| 63 Methyl methacrylate | 41 | 6.083 | 6.083 | 0.0 | 90 | 132779 | 51.5 | |
| 66 1,4-Dioxane | 88 | 6.180 | 6.180 | 0.0 | 90 | 93259 | 2044.2 | |
| 70 2-Nitropropane | 43 | 6.533 | 6.533 | 0.0 | 98 | 236210 | 265.5 | |
| 71 Epichlorohydrin | 57 | 6.643 | 6.643 | 0.0 | 98 | 395791 | 0 | |

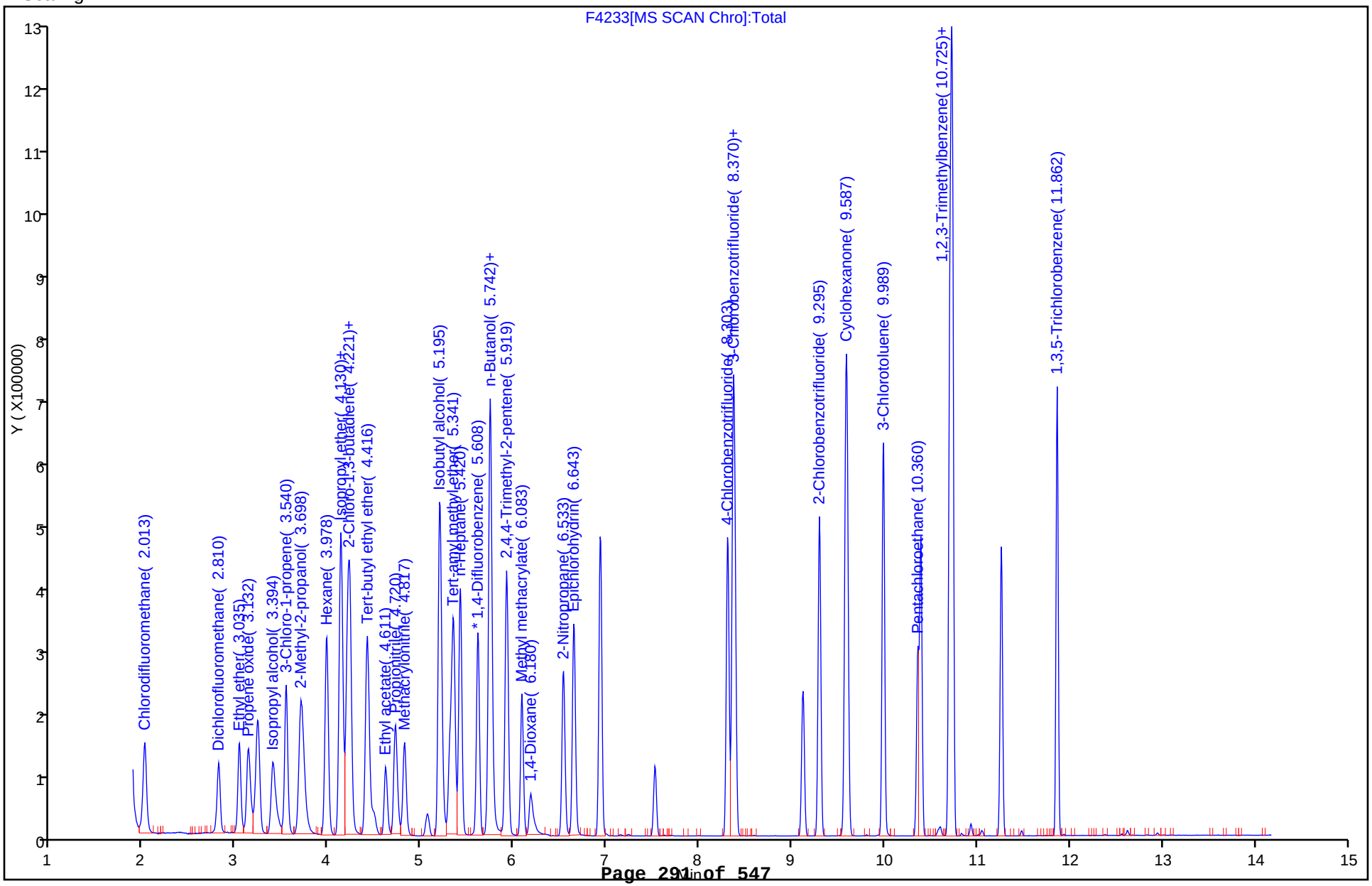
| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 86 4-Chlorobenzotrifluoride | 180 | 8.309 | 8.309 | 0.0 | 91 | 231467 | 0 | |
| 85 3-Chlorobenzotrifluoride | 180 | 8.364 | 8.364 | 0.0 | 88 | 229144 | 0 | |
| 93 2-Chlorobenzotrifluoride | 180 | 9.295 | 9.295 | 0.0 | 98 | 235170 | 0 | |
| 96 Cyclohexanone | 55 | 9.581 | 9.581 | 0.0 | 92 | 300034 | 0 | |
| 104 3-Chlorotoluene | 126 | 9.989 | 9.989 | 0.0 | 95 | 185345 | 0 | |
| 108 Pentachloroethane | 167 | 10.360 | 10.360 | 0.0 | 84 | 62825 | 0 | |
| 114 Dicyclopentadiene | 66 | 10.719 | 10.719 | 0.0 | 96 | 598005 | 0 | |
| 112 1,2,3-Trimethylbenzene | 105 | 10.731 | 10.731 | 0.0 | 97 | 576101 | 0 | |
| 118 1,3,5-Trichlorobenzene | 180 | 11.862 | 11.862 | 0.0 | 98 | 252874 | 0 | |

Report Date: 11-Dec-2012 22:42:53 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4233.D | | |
| Injection Date: | 11-Dec-2012 20:32:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973F |
| Lims Batch ID: | 95189 | Lims Sample ID: | 14 |
| Operator ID: | Jmb | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:



Report Date: 11-Dec-2012 22:43:09 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4234.D | | |
| Lims ID: | STD13 | Client ID: | |
| Inject. Date: | 11-Dec-2012 20:57:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 6 |
| Sample ID: | STD13 | | |
| Misc. Info.: | 480-0017433-015 =480-0017433-015 | | |
| Operator: | Jmb | Instrument ID: | HP5973F |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 15 |
| Lims Batch ID: | 95189 | Lims Sample ID: | 15 |
| Sublist: | chrom-F-8260 SOIL*sub15 | | |
| Detector: | MS SCAN | | |

| | | | |
|---|---|---|---|
| Method: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F-8260 SOIL.m | | |
| Last Update: | 11-Dec-2012 22:43:09 | Calib Date: | 11-Dec-2012 21:23:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4235.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK007 | | |

First Level Reviewer: cwiklinc Date: 11-Dec-2012 22:43:09

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 5.608 | 5.608 | 0.0 | 93 | 382108 | 50.0 | |
| * 2 Chlorobenzene-d5 | 82 | 8.382 | 8.382 | 0.0 | 81 | 166999 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 10.700 | 10.700 | 0.0 | 81 | 180455 | 50.0 | |
| 11 Chlorodifluoromethane | 51 | 2.007 | 2.013 | -0.006 | 78 | 296281 | 0 | |
| 16 Dichlorofluoromethane | 67 | 2.804 | 2.810 | -0.006 | 82 | 286697 | 0 | |
| 18 Ethyl ether | 59 | 3.023 | 3.035 | -0.012 | 91 | 211536 | 91.5 | |
| 19 Propene oxide | 58 | 3.120 | 3.132 | -0.012 | 95 | 366677 | 0 | |
| 24 Isopropyl alcohol | 45 | 3.394 | 3.394 | 0.0 | 99 | 599019 | 0 | |
| 28 3-Chloro-1-propene | 41 | 3.528 | 3.540 | -0.012 | 92 | 428324 | 97.2 | |
| 31 2-Methyl-2-propanol | 59 | 3.698 | 3.698 | 0.0 | 98 | 1004834 | 1839.9 | |
| 35 Hexane | 57 | 3.972 | 3.972 | 0.0 | 92 | 433368 | 0 | |
| 134 Halothane | 117 | 4.124 | 4.130 | -0.006 | 0 | 152642 | 97.3 | |
| 36 Isopropyl ether | 45 | 4.124 | 4.130 | -0.006 | 94 | 898966 | 94.6 | |
| 38 1,1-Dimethoxyethane | 75 | 4.197 | 4.203 | -0.006 | 95 | 370665 | 0 | |
| 40 2-Chloro-1,3-butadiene | 53 | 4.221 | 4.227 | -0.006 | 87 | 395903 | 0 | |
| 41 Tert-butyl ethyl ether | 59 | 4.410 | 4.416 | -0.006 | 97 | 799155 | 90.7 | |
| 42 Ethyl acetate | 43 | 4.611 | 4.611 | -0.001 | 99 | 330848 | 0 | |
| 46 Propionitrile | 54 | 4.714 | 4.720 | -0.006 | 99 | 542501 | 962.5 | |
| 47 Methacrylonitrile | 41 | 4.811 | 4.817 | -0.006 | 92 | 198145 | 0 | |
| 53 Isobutyl alcohol | 43 | 5.195 | 5.195 | 0.0 | 95 | 955029 | 0 | |
| 56 Tert-amyl methyl ether | 73 | 5.341 | 5.347 | -0.006 | 98 | 728406 | 94.4 | |
| 59 n-Heptane | 43 | 5.414 | 5.420 | -0.006 | 92 | 452341 | 97.7 | |
| 136 2,4,4-Trimethyl-1-pentene | 55 | 5.742 | 5.742 | 0.0 | 0 | 302668 | 108.2 | |
| 60 n-Butanol | 56 | 5.742 | 5.742 | 0.0 | 87 | 775121 | 0 | |
| 135 2,4,4-Trimethyl-2-pentene | 97 | 5.918 | 5.919 | -0.001 | 0 | 585052 | 99.0 | |
| 63 Methyl methacrylate | 41 | 6.083 | 6.083 | 0.0 | 90 | 266118 | 93.9 | |
| 66 1,4-Dioxane | 88 | 6.174 | 6.180 | -0.006 | 90 | 189764 | 3769.4 | |
| 70 2-Nitropropane | 43 | 6.533 | 6.533 | 0.0 | 97 | 492012 | 508.9 | |
| 71 Epichlorohydrin | 57 | 6.642 | 6.643 | -0.001 | 98 | 795005 | 0 | |

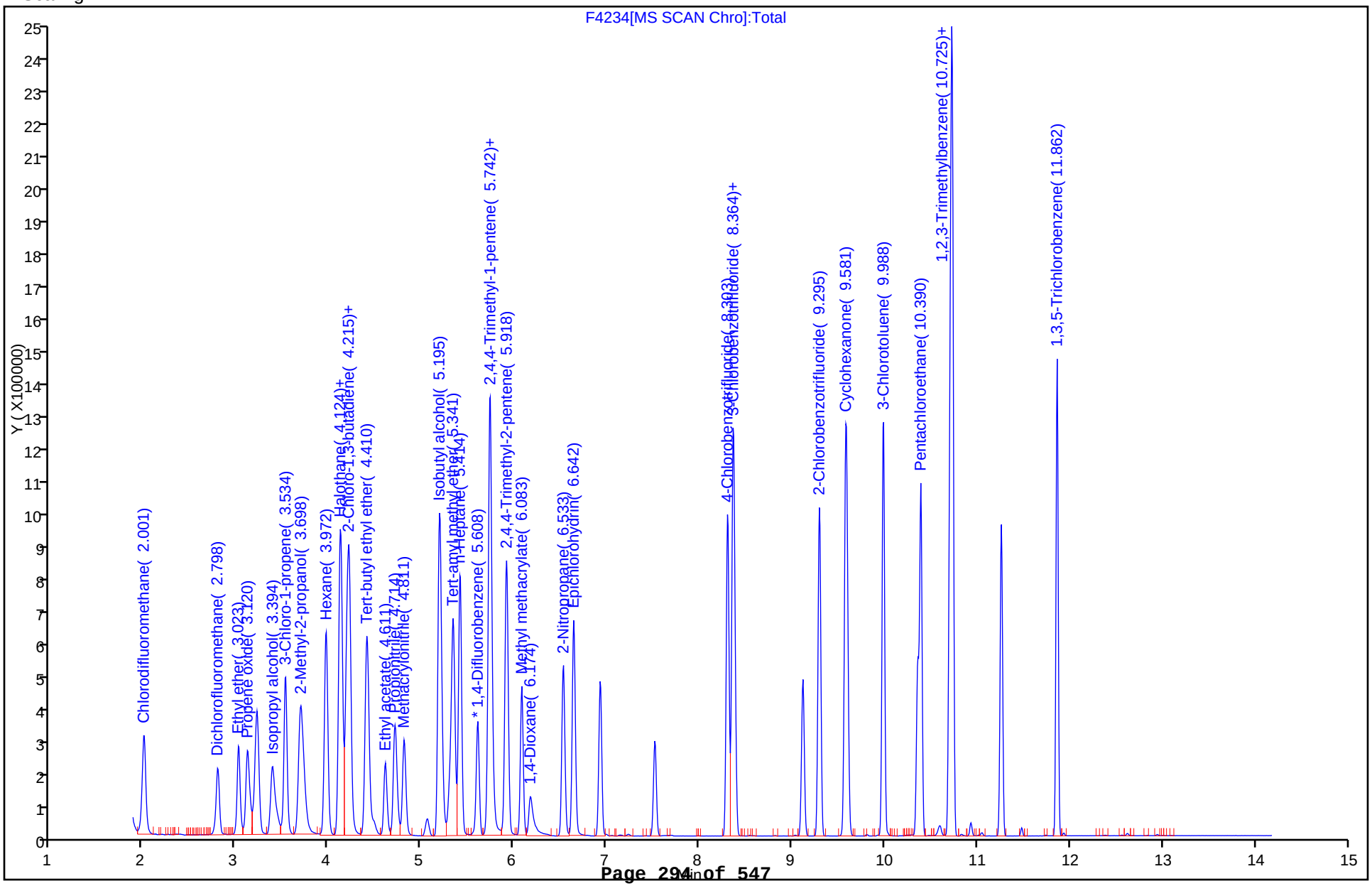
| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 86 4-Chlorobenzotrifluoride | 180 | 8.303 | 8.309 | -0.006 | 92 | 489158 | 0 | |
| 85 3-Chlorobenzotrifluoride | 180 | 8.364 | 8.364 | 0.0 | 91 | 474682 | 0 | |
| 93 2-Chlorobenzotrifluoride | 180 | 9.295 | 9.295 | 0.0 | 97 | 486011 | 0 | |
| 96 Cyclohexanone | 55 | 9.581 | 9.581 | 0.0 | 91 | 625245 | 0 | |
| 104 3-Chlorotoluene | 126 | 9.988 | 9.989 | 0.0 | 95 | 383104 | 0 | |
| 108 Pentachloroethane | 167 | 10.359 | 10.360 | -0.001 | 88 | 119198 | 0 | |
| 114 Dicyclopentadiene | 66 | 10.712 | 10.719 | -0.007 | 96 | 1212233 | 0 | |
| 112 1,2,3-Trimethylbenzene | 105 | 10.731 | 10.731 | 0.0 | 97 | 1151901 | 0 | |
| 118 1,3,5-Trichlorobenzene | 180 | 11.862 | 11.862 | 0.0 | 94 | 527952 | 0 | |

Report Date: 11-Dec-2012 22:43:09 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4234.D | | |
| Injection Date: | 11-Dec-2012 20:57:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973F |
| Lims Batch ID: | 95189 | Lims Sample ID: | 15 |
| Operator ID: | Jmb | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4235.D | | |
| Lims ID: | STD14 | Client ID: | |
| Inject. Date: | 11-Dec-2012 21:23:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 7 |
| Sample ID: | STD14 | | |
| Misc. Info.: | 480-0017433-016 =480-0017433-016 | | |
| Operator: | Jmb | Instrument ID: | HP5973F |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 16 |
| Lims Batch ID: | 95189 | Lims Sample ID: | 16 |
| Sublist: | chrom-F-8260 SOIL*sub15 | | |
| Detector: | MS SCAN | | |

| | | | |
|---|---|---|---|
| Method: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F-8260 SOIL.m | | |
| Last Update: | 11-Dec-2012 22:43:27 | Calib Date: | 11-Dec-2012 21:23:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4235.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK007 | | |

First Level Reviewer: cwiklinc Date: 11-Dec-2012 22:43:27

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 5.608 | 5.608 | 0.0 | 92 | 359023 | 50.0 | |
| * 2 Chlorobenzene-d5 | 82 | 8.382 | 8.382 | 0.0 | 80 | 156508 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 10.700 | 10.700 | 0.0 | 74 | 170655 | 50.0 | |
| 11 Chlorodifluoromethane | 51 | 2.013 | 2.013 | 0.0 | 79 | 579717 | 0 | |
| 16 Dichlorofluoromethane | 67 | 2.798 | 2.810 | -0.012 | 83 | 509616 | 0 | |
| 18 Ethyl ether | 59 | 3.023 | 3.035 | -0.012 | 91 | 407331 | 187.5 | |
| 19 Propene oxide | 58 | 3.120 | 3.132 | -0.012 | 96 | 670383 | 0 | |
| 24 Isopropyl alcohol | 45 | 3.394 | 3.394 | 0.0 | 99 | 1115538 | 0 | |
| 28 3-Chloro-1-propene | 41 | 3.528 | 3.540 | -0.012 | 92 | 833905 | 204.8 | |
| 31 2-Methyl-2-propanol | 59 | 3.698 | 3.698 | 0.0 | 98 | 1854046 | 3613.1 | |
| 35 Hexane | 57 | 3.972 | 3.972 | 0.0 | 91 | 741668 | 0 | |
| 134 Halothane | 117 | 4.124 | 4.130 | -0.006 | 0 | 315729 | 214.1 | |
| 36 Isopropyl ether | 45 | 4.130 | 4.130 | 0.0 | 95 | 1730032 | 193.8 | |
| 38 1,1-Dimethoxyethane | 75 | 4.197 | 4.203 | -0.006 | 93 | 711753 | 0 | |
| 40 2-Chloro-1,3-butadiene | 53 | 4.221 | 4.227 | -0.006 | 87 | 759101 | 0 | |
| 41 Tert-butyl ethyl ether | 59 | 4.410 | 4.416 | -0.006 | 97 | 1589261 | 191.9 | |
| 42 Ethyl acetate | 43 | 4.611 | 4.611 | 0.0 | 99 | 629625 | 0 | |
| 46 Propionitrile | 54 | 4.714 | 4.720 | -0.006 | 99 | 1020754 | 1927.4 | |
| 47 Methacrylonitrile | 41 | 4.811 | 4.817 | -0.006 | 92 | 381964 | 0 | |
| 53 Isobutyl alcohol | 43 | 5.195 | 5.195 | 0.0 | 95 | 1711672 | 0 | |
| 56 Tert-amyl methyl ether | 73 | 5.341 | 5.347 | -0.006 | 98 | 1450064 | 200.1 | |
| 59 n-Heptane | 43 | 5.414 | 5.420 | -0.006 | 91 | 779322 | 179.1 | |
| 136 2,4,4-Trimethyl-1-pentene | 55 | 5.742 | 5.742 | 0.0 | 0 | 224122 | 85.2 | |
| 60 n-Butanol | 56 | 5.742 | 5.742 | 0.0 | 86 | 1210146 | 0 | |
| 135 2,4,4-Trimethyl-2-pentene | 97 | 5.919 | 5.919 | 0.0 | 0 | 1178831 | 212.3 | |
| 63 Methyl methacrylate | 41 | 6.083 | 6.083 | 0.0 | 89 | 519097 | 194.9 | |
| 66 1,4-Dioxane | 88 | 6.174 | 6.180 | -0.006 | 91 | 358550 | 7599.6 | |
| 70 2-Nitropropane | 43 | 6.533 | 6.533 | 0.0 | 96 | 940308 | 1028.4 | |
| 71 Epichlorohydrin | 57 | 6.643 | 6.643 | 0.0 | 98 | 1462893 | 0 | |

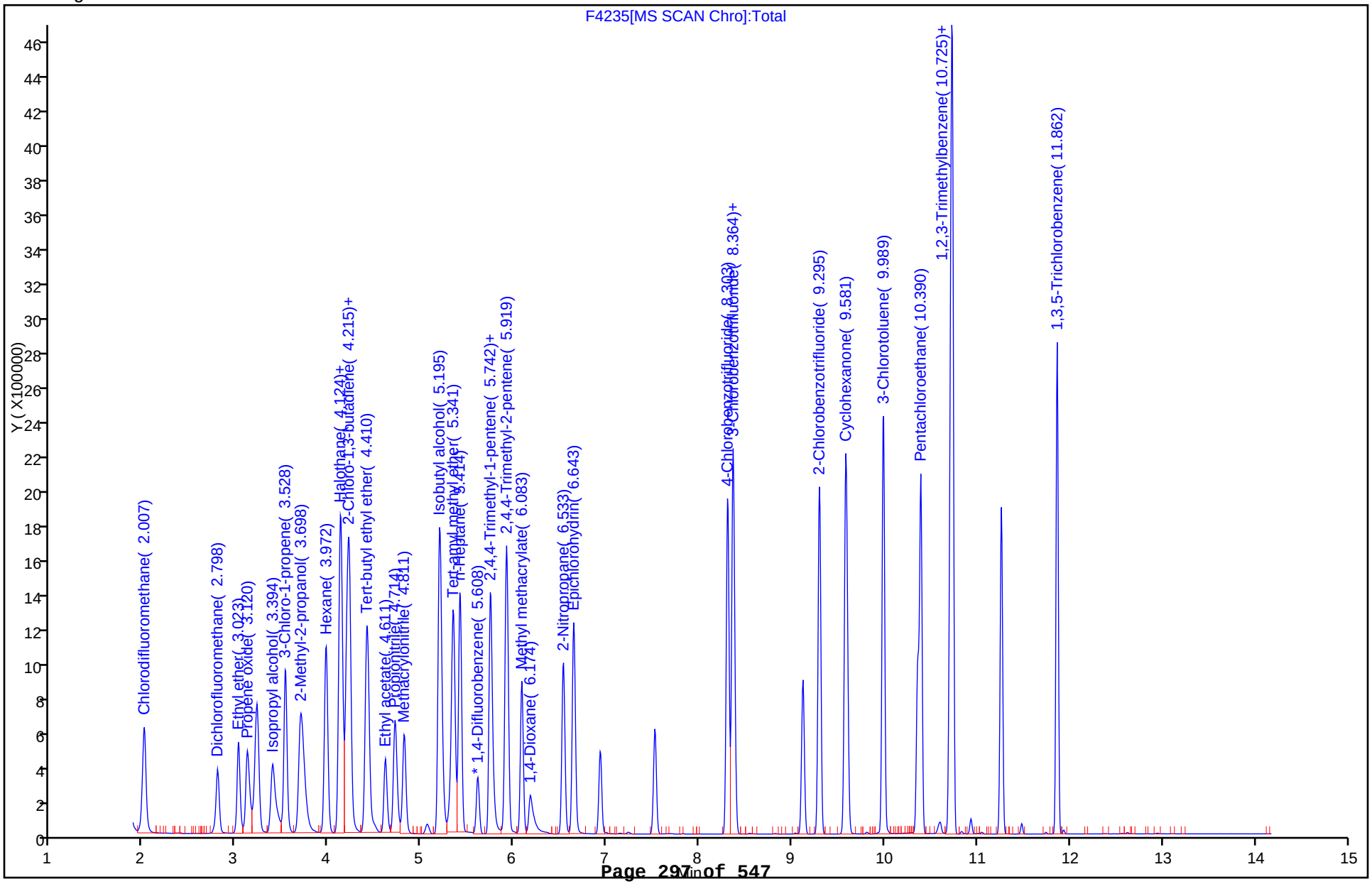
| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 86 4-Chlorobenzotrifluoride | 180 | 8.303 | 8.309 | -0.006 | 92 | 964928 | 0 | |
| 85 3-Chlorobenzotrifluoride | 180 | 8.364 | 8.364 | 0.0 | 92 | 943913 | 0 | |
| 93 2-Chlorobenzotrifluoride | 180 | 9.295 | 9.295 | 0.0 | 97 | 965351 | 0 | |
| 96 Cyclohexanone | 55 | 9.581 | 9.581 | 0.0 | 90 | 1154228 | 0 | |
| 104 3-Chlorotoluene | 126 | 9.989 | 9.989 | 0.001 | 94 | 755256 | 0 | |
| 108 Pentachloroethane | 167 | 10.360 | 10.360 | 0.0 | 88 | 234604 | 0 | |
| 114 Dicyclopentadiene | 66 | 10.712 | 10.719 | -0.007 | 96 | 2302638 | 0 | |
| 112 1,2,3-Trimethylbenzene | 105 | 10.731 | 10.731 | 0.0 | 97 | 2231642 | 0 | |
| 118 1,3,5-Trichlorobenzene | 180 | 11.862 | 11.862 | 0.0 | 97 | 1054106 | 0 | |

Report Date: 11-Dec-2012 22:43:27 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4235.D | | |
| Injection Date: | 11-Dec-2012 21:23:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973F |
| Lims Batch ID: | 95189 | Lims Sample ID: | 16 |
| Operator ID: | Jmb | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4239.D | | |
| Lims ID: | STD10 | Client ID: | |
| Inject. Date: | 11-Dec-2012 23:36:30 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 3 |
| Sample ID: | STD10 | | |
| Misc. Info.: | 480-0017433-020 =480-0017433-020 | | |
| Operator: | Jmb | Instrument ID: | HP5973F |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 20 |
| Lims Batch ID: | 95189 | Lims Sample ID: | 20 |
| Sublist: | chrom-F-8260 SOIL*sub15 | | |
| Detector: | MS SCAN | | |

| | | | |
|---|---|---|---|
| Method: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F-8260 SOIL.m | | |
| Last Update: | 11-Dec-2012 23:46:45 | Calib Date: | 11-Dec-2012 23:36:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4239.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK007 | | |

First Level Reviewer: cwiklinc Date: 11-Dec-2012 23:46:45

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 5.608 | 5.608 | 0.0 | 93 | 352608 | 50.0 | |
| * 2 Chlorobenzene-d5 | 82 | 8.382 | 8.382 | 0.0 | 81 | 151525 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 10.700 | 10.700 | 0.0 | 92 | 164630 | 50.0 | |
| 11 Chlorodifluoromethane | 51 | 2.013 | 2.013 | 0.0 | 86 | 32810 | 0 | |
| 16 Dichlorofluoromethane | 67 | 2.804 | 2.810 | -0.006 | 77 | 38533 | 0 | |
| 18 Ethyl ether | 59 | 3.023 | 3.035 | -0.012 | 82 | 25292 | 11.7 | |
| 19 Propene oxide | 58 | 3.126 | 3.132 | -0.006 | 85 | 41488 | 0 | |
| 24 Isopropyl alcohol | 45 | 3.394 | 3.394 | 0.0 | 96 | 68652 | 0 | |
| 28 3-Chloro-1-propene | 41 | 3.534 | 3.540 | -0.006 | 86 | 52914 | 10.1 | |
| 31 2-Methyl-2-propanol | 59 | 3.692 | 3.698 | -0.006 | 98 | 113887 | 224.7 | |
| 35 Hexane | 57 | 3.972 | 3.972 | 0.0 | 90 | 53997 | 0 | |
| 134 Halothane | 117 | 4.130 | 4.130 | 0.0 | 0 | 16523 | 11.2 | |
| 36 Isopropyl ether | 45 | 4.124 | 4.130 | -0.006 | 93 | 96345 | 11.0 | |
| 38 1,1-Dimethoxyethane | 75 | 4.203 | 4.203 | 0.0 | 94 | 38392 | 0 | |
| 40 2-Chloro-1,3-butadiene | 53 | 4.227 | 4.227 | 0.0 | 79 | 46298 | 0 | |
| 41 Tert-butyl ethyl ether | 59 | 4.416 | 4.416 | 0.0 | 97 | 87637 | 10.8 | |
| 42 Ethyl acetate | 43 | 4.610 | 4.611 | -0.001 | 94 | 36351 | 0 | |
| 46 Propionitrile | 54 | 4.720 | 4.720 | 0.0 | 96 | 58478 | 111.8 | |
| 47 Methacrylonitrile | 41 | 4.811 | 4.817 | -0.006 | 79 | 21134 | 0 | |
| 53 Isobutyl alcohol | 43 | 5.194 | 5.195 | -0.001 | 94 | 108015 | 0 | |
| 56 Tert-amyl methyl ether | 73 | 5.340 | 5.347 | -0.007 | 96 | 76408 | 10.7 | |
| 59 n-Heptane | 43 | 5.419 | 5.420 | -0.001 | 92 | 57815 | 13.2 | |
| 136 2,4,4-Trimethyl-1-pentene | 55 | 5.736 | 5.742 | -0.006 | 0 | 32977 | 12.6 | |
| 60 n-Butanol | 56 | 5.742 | 5.742 | 0.0 | 87 | 86949 | 0 | |
| 135 2,4,4-Trimethyl-2-pentene | 97 | 5.918 | 5.919 | -0.001 | 0 | 68049 | 12.2 | |
| 63 Methyl methacrylate | 41 | 6.083 | 6.083 | 0.0 | 83 | 28357 | 10.8 | |
| 66 1,4-Dioxane | 88 | 6.180 | 6.180 | 0.0 | 82 | 19590 | 430.9 | |
| 70 2-Nitropropane | 43 | 6.533 | 6.533 | 0.0 | 99 | 43767 | 50.0 | |
| 71 Epichlorohydrin | 57 | 6.642 | 6.643 | -0.001 | 97 | 88003 | 0 | |

Report Date: 11-Dec-2012 23:46:45 Chrom Revision: 2.0 22-Oct-2012 16:30:48
Data File: \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4239.D

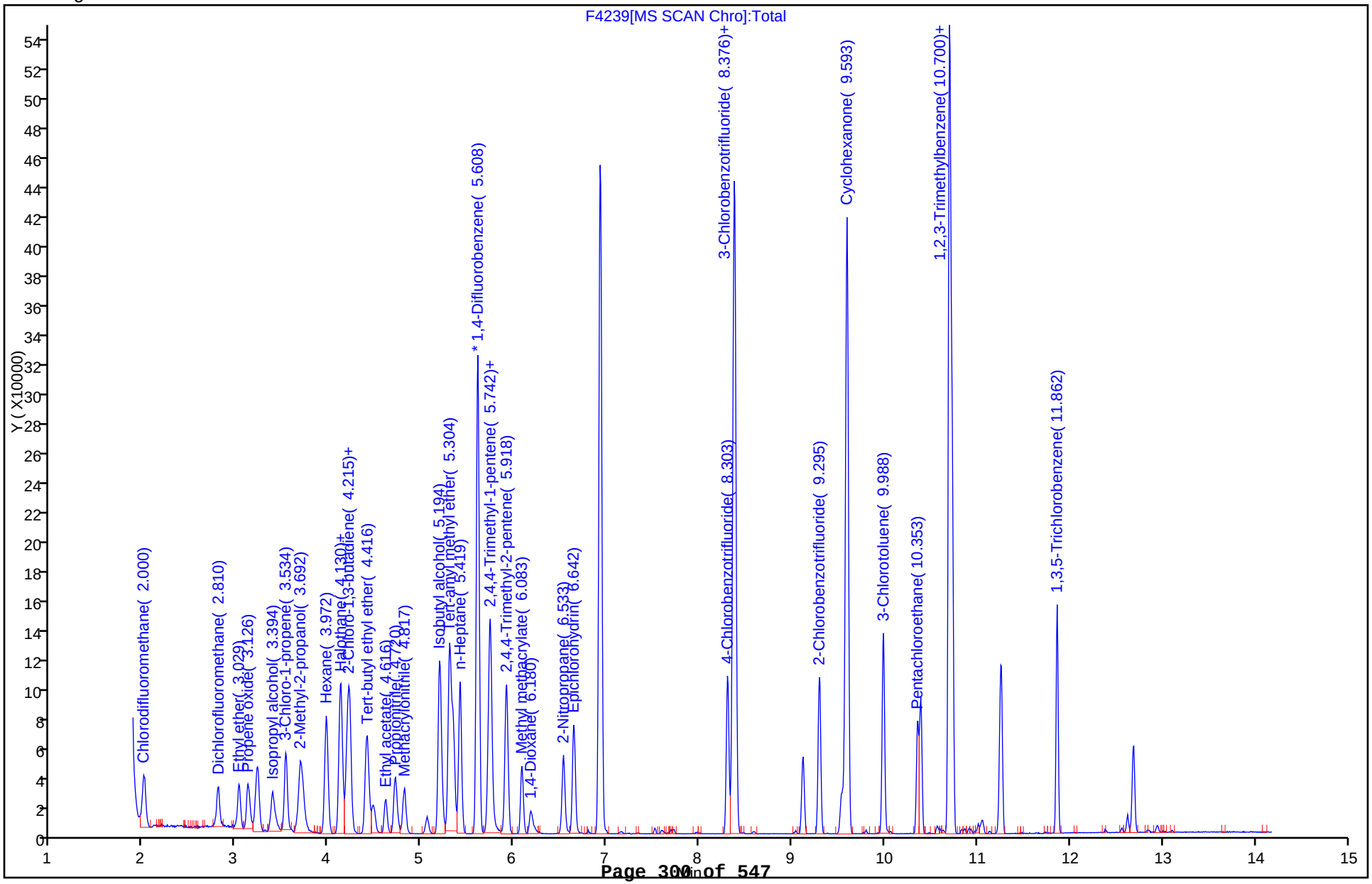
| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 86 4-Chlorobenzotrifluoride | 180 | 8.303 | 8.309 | -0.006 | 83 | 55096 | 0 | |
| 85 3-Chlorobenzotrifluoride | 180 | 8.364 | 8.364 | 0.0 | 74 | 54628 | 0 | |
| 93 2-Chlorobenzotrifluoride | 180 | 9.301 | 9.295 | 0.006 | 93 | 53201 | 0 | |
| 96 Cyclohexanone | 55 | 9.581 | 9.581 | 0.0 | 89 | 70159 | 0 | |
| 104 3-Chlorotoluene | 126 | 9.988 | 9.989 | 0.0 | 93 | 41081 | 0 | |
| 108 Pentachloroethane | 167 | 10.359 | 10.360 | -0.001 | 71 | 17692 | 0 | |
| 114 Dicyclopentadiene | 66 | 10.718 | 10.719 | -0.001 | 94 | 136222 | 0 | |
| 112 1,2,3-Trimethylbenzene | 105 | 10.730 | 10.731 | -0.001 | 73 | 124509 | 0 | |
| 118 1,3,5-Trichlorobenzene | 180 | 11.862 | 11.862 | 0.0 | 96 | 55859 | 0 | |

Report Date: 11-Dec-2012 23:46:45 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4239.D | | |
| Injection Date: | 11-Dec-2012 23:36:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973F |
| Lims Batch ID: | 95189 | Lims Sample ID: | 20 |
| Operator ID: | Jmb | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Lab Sample ID: CCVIS 480-96178/2 Calibration Date: 12/17/2012 11:43

Instrument ID: HP5973C Calib Start Date: 12/09/2012 20:11

GC Column: ZB-624 (30) ID: 0.53(mm) Calib End Date: 12/09/2012 23:07

Lab File ID: C25368.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | Ave | 0.2881 | 0.3146 | | 27.3 | 25.0 | 9.2 | |
| Chloromethane | Ave | 0.4016 | 0.4248 | | 26.4 | 25.0 | 5.8 | |
| Vinyl chloride | Lin1 | | 0.4086 | | 27.9 | 25.0 | 11.8 | |
| Bromomethane | Ave | 0.2636 | 0.2601 | | 24.7 | 25.0 | -1.3 | |
| Chloroethane | Ave | 0.2447 | 0.2662 | | 27.2 | 25.0 | 8.8 | |
| Trichlorofluoromethane | Ave | 0.4998 | 0.4833 | | 24.2 | 25.0 | -3.3 | |
| Acrolein | Ave | 0.0586 | 0.0624 | | 533 | 500 | 6.5 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Lin1 | | 0.2346 | | 24.3 | 25.0 | -2.8 | |
| 1,1-Dichloroethene | Ave | 0.2668 | 0.2486 | | 23.3 | 25.0 | -6.8 | |
| Acetone | Ave | 0.1518 | 0.1404 | | 116 | 125 | -7.5 | |
| Iodomethane | Ave | 0.3688 | 0.3635 | | 24.6 | 25.0 | -1.4 | |
| Carbon disulfide | Ave | 0.9686 | 0.9378 | | 24.2 | 25.0 | -3.2 | |
| Methyl acetate | Ave | 0.4741 | 0.4572 | | 24.1 | 25.0 | -3.6 | |
| Acetonitrile | Ave | 0.0305 | 0.0296 | | 970 | 1000 | -3.0 | |
| Methylene Chloride | Ave | 0.3821 | 0.3597 | | 23.5 | 25.0 | -5.9 | |
| Methyl tert-butyl ether | Ave | 1.109 | 1.041 | | 23.5 | 25.0 | -6.1 | |
| trans-1,2-Dichloroethene | Ave | 0.3542 | 0.3348 | | 23.6 | 25.0 | -5.5 | |
| Acrylonitrile | Ave | 0.1659 | 0.1631 | | 123 | 125 | -1.7 | |
| Vinyl acetate | Ave | 0.8618 | 0.8462 | | 123 | 125 | -1.8 | |
| 1,1-Dichloroethane | Ave | 0.7065 | 0.6876 | | 24.3 | 25.0 | -2.7 | |
| 2-Butanone (MEK) | Ave | 0.2337 | 0.2128 | | 114 | 125 | -8.9 | |
| 2,2-Dichloropropane | Ave | 0.4450 | 0.4237 | | 23.8 | 25.0 | -4.8 | |
| cis-1,2-Dichloroethene | Ave | 0.4025 | 0.3769 | | 23.4 | 25.0 | -6.4 | |
| Chlorobromomethane | Ave | 0.1984 | 0.1839 | | 23.2 | 25.0 | -7.3 | |
| Chloroform | Ave | 0.6803 | 0.6352 | | 23.3 | 25.0 | -6.6 | |
| Tetrahydrofuran | Ave | 0.1460 | 0.1384 | | 118 | 125 | -5.2 | |
| 1,1,1-Trichloroethane | Ave | 0.5301 | 0.4962 | | 23.4 | 25.0 | -6.4 | |
| Cyclohexane | Ave | 0.5132 | 0.4773 | | 23.2 | 25.0 | -7.0 | |
| 1,1-Dichloropropene | Ave | 0.5154 | 0.4904 | | 23.8 | 25.0 | -4.9 | |
| Carbon tetrachloride | Ave | 0.4963 | 0.4461 | | 22.5 | 25.0 | -10.1 | |
| Benzene | Ave | 1.440 | 1.503 | | 26.1 | 25.0 | 4.4 | |
| 1,2-Dichloroethane | Ave | 0.6626 | 0.6031 | | 22.8 | 25.0 | -9.0 | |
| Trichloroethene | Ave | 0.3865 | 0.3583 | | 23.2 | 25.0 | -7.3 | |
| Methylcyclohexane | Ave | 0.5394 | 0.5005 | | 23.2 | 25.0 | -7.2 | |
| 1,2-Dichloropropane | Ave | 0.3988 | 0.3806 | | 23.9 | 25.0 | -4.6 | |
| Dibromomethane | Ave | 0.2724 | 0.2453 | | 22.5 | 25.0 | -9.9 | |
| Dichlorobromomethane | Ave | 0.5332 | 0.4810 | | 22.6 | 25.0 | -9.8 | |
| 2-Chloroethyl vinyl ether | Ave | 0.2991 | 0.2793 | | 117 | 125 | -6.6 | |
| trans-1,3-Dichloropropene | Ave | 1.206 | 1.070 | | 22.2 | 25.0 | -11.3 | |
| 4-Methyl-2-pentanone (MIBK) | Ave | 0.9082 | 0.8135 | | 112 | 125 | -10.4 | |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Lab Sample ID: CCVIS 480-96178/2 Calibration Date: 12/17/2012 11:43

Instrument ID: HP5973C Calib Start Date: 12/09/2012 20:11

GC Column: ZB-624 (30) ID: 0.53(mm) Calib End Date: 12/09/2012 23:07

Lab File ID: C25368.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Toluene | Ave | 1.733 | 1.597 | | 23.0 | 25.0 | -7.8 | |
| Ethyl methacrylate | Ave | 0.9810 | 0.8643 | | 22.0 | 25.0 | -11.9 | |
| cis-1,3-Dichloropropene | Ave | 0.6273 | 0.5701 | | 22.7 | 25.0 | -9.1 | |
| 1,1,2-Trichloroethane | Ave | 0.5374 | 0.4922 | | 22.9 | 25.0 | -8.4 | |
| 2-Hexanone | Ave | 0.6581 | 0.5790 | | 110 | 125 | -12.0 | |
| Tetrachloroethene | Ave | 0.6919 | 0.6268 | | 22.6 | 25.0 | -9.4 | |
| 1,3-Dichloropropane | Ave | 1.167 | 1.054 | | 22.6 | 25.0 | -9.7 | |
| Chlorodibromomethane | Ave | 0.7356 | 0.6185 | | 21.0 | 25.0 | -15.9 | |
| Ethylene Dibromide | Ave | 0.6830 | 0.5788 | | 21.2 | 25.0 | -15.3 | |
| Chlorobenzene | Ave | 1.867 | 1.681 | | 22.5 | 25.0 | -10.0 | |
| Ethylbenzene | Ave | 3.329 | 3.064 | | 23.0 | 25.0 | -8.0 | |
| 1,1,1,2-Tetrachloroethane | Ave | 0.6500 | 0.5631 | | 21.7 | 25.0 | -13.4 | |
| m-Xylene & p-Xylene | Ave | 1.231 | 1.141 | | 46.3 | 50.0 | -7.3 | |
| o-Xylene | Ave | 1.201 | 1.103 | | 23.0 | 25.0 | -8.2 | |
| Styrene | Ave | 2.061 | 1.801 | | 21.8 | 25.0 | -12.6 | |
| Isopropylbenzene | Ave | 3.654 | 3.274 | | 22.4 | 25.0 | -10.4 | |
| Bromoform | Ave | 0.4870 | 0.4000 | | 20.5 | 25.0 | -17.9 | |
| 1,1,2,2-Tetrachloroethane | Ave | 1.050 | 0.9222 | | 22.0 | 25.0 | -12.2 | |
| trans-1,4-Dichloro-2-butene | Ave | 0.3056 | 0.2701 | | 110 | 125 | -11.6 | |
| N-Propylbenzene | Ave | 4.538 | 4.150 | | 22.9 | 25.0 | -8.6 | |
| 1,2,3-Trichloropropane | Ave | 0.3333 | 0.2870 | | 21.5 | 25.0 | -13.9 | |
| Bromobenzene | Ave | 0.8848 | 0.7775 | | 22.0 | 25.0 | -12.1 | |
| 1,3,5-Trimethylbenzene | Ave | 3.125 | 2.815 | | 22.5 | 25.0 | -9.9 | |
| 2-Chlorotoluene | Ave | 0.8230 | 0.7379 | | 22.4 | 25.0 | -10.3 | |
| 4-Chlorotoluene | Ave | 0.8672 | 0.7621 | | 22.0 | 25.0 | -12.1 | |
| tert-Butylbenzene | Ave | 0.6009 | 0.5248 | | 21.8 | 25.0 | -12.7 | |
| 1,2,4-Trimethylbenzene | Ave | 3.156 | 2.834 | | 22.4 | 25.0 | -10.2 | |
| sec-Butylbenzene | Ave | 3.860 | 3.425 | | 22.2 | 25.0 | -11.3 | |
| 4-Isopropyltoluene | Ave | 3.068 | 2.714 | | 22.1 | 25.0 | -11.5 | |
| 1,3-Dichlorobenzene | Ave | 1.682 | 1.478 | | 22.0 | 25.0 | -12.1 | |
| 1,4-Dichlorobenzene | Ave | 1.724 | 1.503 | | 21.8 | 25.0 | -12.8 | |
| n-Butylbenzene | Ave | 3.073 | 2.703 | | 22.0 | 25.0 | -12.0 | |
| 1,2-Dichlorobenzene | Ave | 1.616 | 1.417 | | 21.9 | 25.0 | -12.3 | |
| 1,2-Dibromo-3-Chloropropane | Lin1 | | 0.1858 | | 19.0 | 25.0 | -24.1 | |
| 1,2,4-Trichlorobenzene | Ave | 1.213 | 1.047 | | 21.6 | 25.0 | -13.7 | |
| Hexachlorobutadiene | Ave | 0.5533 | 0.4642 | | 21.0 | 25.0 | -16.1 | |
| Naphthalene | Ave | 3.331 | 2.808 | | 21.1 | 25.0 | -15.7 | |
| 1,2,3-Trichlorobenzene | Ave | 1.166 | 0.9924 | | 21.3 | 25.0 | -14.9 | |
| 1,2-Dichloroethane-d4 (Surr) | Ave | 0.2327 | 0.2096 | | 22.5 | 25.0 | -9.9 | |
| Toluene-d8 (Surr) | Ave | 2.218 | 2.014 | | 22.7 | 25.0 | -9.2 | |
| 4-Bromofluorobenzene (Surr) | Ave | 0.7024 | 0.6132 | | 21.8 | 25.0 | -12.7 | |

Report Date: 17-Dec-2012 12:50:44 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121217-17619.b\C25368.D | | |
| Lims ID: | CCVIS | Client ID: | |
| Inject. Date: | 17-Dec-2012 11:43:30 | Dil. Factor: | 1.0000 |
| Sample Type: | CCVIS | | |
| Sample ID: | CCVIS | | |
| Misc. Info.: | 480-0017619-002 | | |
| Operator: | LH | Instrument ID: | HP5973C |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 54 |
| Lims Batch ID: | 96178 | Lims Sample ID: | 2 |
| Sublist: | chrom-C-8260*sub1 | | |
| Detector: | MS SCAN | | |

| | | | |
|---|---|---|---|
| Method: | \\Bufchrom\ChromData\HP5973C\20121217-17619.b\C-8260.m | | |
| Last Update: | 17-Dec-2012 12:50:44 | Calib Date: | 10-Dec-2012 03:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25063.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK033 | | |

First Level Reviewer: HillL Date: 17-Dec-2012 12:50:44

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 9.587 | 9.587 | 0.0 | 96 | 609054 | 25.0 | |
| * 2 Chlorobenzene-d5 | 82 | 11.971 | 11.971 | 0.0 | 89 | 339368 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.011 | 14.011 | 0.0 | 77 | 298481 | 25.0 | |
| $ 4 1,2-Dichloroethane-d4 (Surr) | 67 | 9.338 | 9.338 | 0.0 | 0 | 127675 | 22.5 | |
| $ 5 Toluene-d8 (Surr) | 98 | 10.785 | 10.785 | 0.0 | 93 | 683515 | 22.7 | |
| $ 6 4-Bromofluorobenzene (Surr) | 174 | 12.920 | 12.920 | 0.0 | 83 | 208114 | 21.8 | |
| 10 Dichlorodifluoromethane | 85 | 4.607 | 4.607 | 0.0 | 78 | 191607 | 27.3 | |
| 12 Chloromethane | 50 | 5.034 | 5.034 | 0.0 | 89 | 258712 | 26.4 | |
| 13 Vinyl chloride | 62 | 5.235 | 5.235 | 0.0 | 97 | 248831 | 27.9 | |
| 14 Bromomethane | 94 | 5.876 | 5.876 | 0.0 | 89 | 158420 | 24.7 | |
| 15 Chloroethane | 64 | 6.006 | 6.006 | 0.0 | 93 | 162151 | 27.2 | |
| 17 Trichlorofluoromethane | 101 | 6.338 | 6.338 | 0.0 | 83 | 294378 | 24.2 | |
| 20 Acrolein | 56 | 6.907 | 6.907 | 0.0 | 99 | 760226 | 532.5 | |
| 21 1,1,2-Trichloro-1,2,2-trifluoroe | 101 | 6.919 | 6.919 | 0.0 | 78 | 142900 | 24.3 | |
| 22 1,1-Dichloroethene | 96 | 6.990 | 6.990 | 0.0 | 81 | 151418 | 23.3 | |
| 23 Acetone | 43 | 7.062 | 7.062 | 0.0 | 99 | 427656 | 115.7 | |
| 25 Iodomethane | 142 | 7.239 | 7.239 | 0.0 | 96 | 221363 | 24.6 | |
| 26 Carbon disulfide | 76 | 7.322 | 7.322 | 0.0 | 100 | 571164 | 24.2 | |
| 27 Methyl acetate | 43 | 7.346 | 7.346 | 0.0 | 98 | 278463 | 24.1 | |
| 29 Acetonitrile | 40 | 7.405 | 7.405 | 0.0 | 99 | 721103 | 970.4 | |
| 30 Methylene Chloride | 84 | 7.524 | 7.524 | 0.0 | 90 | 219081 | 23.5 | |
| 32 Methyl tert-butyl ether | 73 | 7.690 | 7.690 | 0.0 | 92 | 633843 | 23.5 | |
| 34 trans-1,2-Dichloroethene | 96 | 7.761 | 7.761 | 0.0 | 89 | 203900 | 23.6 | |
| 33 Acrylonitrile | 53 | 7.773 | 7.773 | 0.0 | 98 | 496604 | 122.9 | |
| 37 Vinyl acetate | 43 | 8.093 | 8.093 | 0.0 | 97 | 2576965 | 122.7 | |
| 39 1,1-Dichloroethane | 63 | 8.153 | 8.153 | 0.0 | 86 | 418799 | 24.3 | |
| 43 2-Butanone (MEK) | 43 | 8.615 | 8.615 | 0.0 | 99 | 648045 | 113.8 | |
| 44 2,2-Dichloropropane | 77 | 8.651 | 8.651 | 0.0 | 85 | 258055 | 23.8 | |
| 45 cis-1,2-Dichloroethene | 96 | 8.651 | 8.651 | 0.0 | 74 | 229532 | 23.4 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| 48 Chlorobromomethane | 128 | 8.888 | 8.888 | 0.0 | 89 | 111977 | 23.2 | |
| 49 Tetrahydrofuran | 42 | 8.888 | 8.888 | 0.0 | 88 | 421566 | 118.5 | |
| 50 Chloroform | 83 | 8.888 | 8.888 | 0.0 | 82 | 386846 | 23.3 | |
| 51 1,1,1-Trichloroethane | 97 | 9.066 | 9.066 | 0.0 | 92 | 302188 | 23.4 | |
| 52 Cyclohexane | 56 | 9.101 | 9.101 | 0.0 | 93 | 290693 | 23.2 | |
| 54 1,1-Dichloropropene | 75 | 9.172 | 9.172 | 0.0 | 91 | 298651 | 23.8 | |
| 55 Carbon tetrachloride | 117 | 9.196 | 9.196 | 0.0 | 75 | 271715 | 22.5 | |
| 57 Benzene | 78 | 9.374 | 9.374 | 0.0 | 98 | 915708 | 26.1 | |
| 58 1,2-Dichloroethane | 62 | 9.398 | 9.398 | 0.0 | 86 | 367323 | 22.8 | |
| 62 Trichloroethene | 95 | 9.848 | 9.848 | 0.0 | 93 | 218227 | 23.2 | |
| 64 Methylcyclohexane | 83 | 9.979 | 9.979 | 0.0 | 96 | 304850 | 23.2 | |
| 65 1,2-Dichloropropane | 63 | 10.050 | 10.050 | 0.0 | 91 | 231801 | 23.9 | |
| 67 Dibromomethane | 93 | 10.192 | 10.192 | 0.0 | 87 | 149389 | 22.5 | |
| 68 Dichlorobromomethane | 83 | 10.252 | 10.252 | 0.0 | 92 | 292968 | 22.6 | |
| 69 2-Chloroethyl vinyl ether | 63 | 10.370 | 10.370 | 0.0 | 91 | 850548 | 116.7 | |
| 77 trans-1,3-Dichloropropene | 75 | 10.572 | 10.572 | 0.0 | 94 | 362986 | 22.2 | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | 10.607 | 10.607 | 0.0 | 97 | 1380410 | 112.0 | |
| 74 Toluene | 92 | 10.833 | 10.833 | 0.0 | 97 | 541842 | 23.0 | |
| 75 Ethyl methacrylate | 69 | 10.904 | 10.904 | 0.0 | 90 | 293303 | 22.0 | |
| 72 cis-1,3-Dichloropropene | 75 | 10.987 | 10.987 | 0.0 | 87 | 347223 | 22.7 | |
| 79 1,1,2-Trichloroethane | 83 | 11.165 | 11.165 | 0.0 | 89 | 167020 | 22.9 | |
| 80 2-Hexanone | 43 | 11.248 | 11.248 | 0.0 | 96 | 982478 | 110.0 | |
| 81 Tetrachloroethene | 166 | 11.283 | 11.283 | 0.0 | 97 | 212717 | 22.6 | |
| 82 1,3-Dichloropropane | 76 | 11.307 | 11.307 | 0.0 | 90 | 357532 | 22.6 | |
| 83 Chlorodibromomethane | 129 | 11.532 | 11.532 | 0.0 | 88 | 209881 | 21.0 | |
| 84 Ethylene Dibromide | 107 | 11.663 | 11.663 | 0.0 | 98 | 196415 | 21.2 | |
| 88 Ethylbenzene | 91 | 11.995 | 11.995 | 0.0 | 93 | 1039807 | 23.0 | |
| 87 Chlorobenzene | 112 | 11.995 | 11.995 | 0.0 | 78 | 570368 | 22.5 | |
| 89 1,1,1,2-Tetrachloroethane | 131 | 12.030 | 12.030 | 0.0 | 73 | 191105 | 21.7 | |
| 90 m-Xylene & p-Xylene | 106 | 12.078 | 12.078 | 0.0 | 99 | 774379 | 46.3 | |
| 91 o-Xylene | 106 | 12.433 | 12.433 | 0.0 | 94 | 374254 | 23.0 | |
| 92 Styrene | 104 | 12.445 | 12.445 | 0.0 | 92 | 611082 | 21.8 | |
| 94 Isopropylbenzene | 105 | 12.694 | 12.694 | 0.0 | 97 | 977158 | 22.4 | |
| 95 Bromoform | 173 | 12.730 | 12.730 | 0.0 | 93 | 135762 | 20.5 | |
| 97 1,1,2,2-Tetrachloroethane | 83 | 13.003 | 13.003 | 0.0 | 88 | 275256 | 22.0 | |
| 98 trans-1,4-Dichloro-2-butene | 53 | 13.026 | 13.026 | 0.0 | 90 | 403143 | 110.5 | |
| 99 N-Propylbenzene | 91 | 13.050 | 13.050 | 0.0 | 98 | 1238679 | 22.9 | |
| 100 1,2,3-Trichloropropane | 110 | 13.086 | 13.086 | 0.0 | 85 | 85652 | 21.5 | |
| 101 Bromobenzene | 156 | 13.121 | 13.121 | 0.0 | 67 | 232056 | 22.0 | |
| 102 1,3,5-Trimethylbenzene | 105 | 13.169 | 13.169 | 0.0 | 92 | 840207 | 22.5 | |
| 103 2-Chlorotoluene | 126 | 13.228 | 13.228 | 0.0 | 94 | 220235 | 22.4 | |
| 105 4-Chlorotoluene | 126 | 13.323 | 13.323 | 0.0 | 99 | 227467 | 22.0 | |
| 106 tert-Butylbenzene | 134 | 13.513 | 13.513 | 0.0 | 91 | 156649 | 21.8 | |
| 107 1,2,4-Trimethylbenzene | 105 | 13.548 | 13.548 | 0.0 | 71 | 845882 | 22.4 | |
| 109 sec-Butylbenzene | 105 | 13.702 | 13.702 | 0.0 | 96 | 1022391 | 22.2 | |
| 110 4-Isopropyltoluene | 119 | 13.809 | 13.809 | 0.0 | 96 | 810204 | 22.1 | |
| 111 1,3-Dichlorobenzene | 146 | 13.951 | 13.951 | 0.0 | 94 | 441067 | 22.0 | |
| 113 1,4-Dichlorobenzene | 146 | 14.034 | 14.034 | 0.0 | 89 | 448663 | 21.8 | |
| 115 n-Butylbenzene | 91 | 14.224 | 14.224 | 0.0 | 98 | 806691 | 22.0 | |
| 116 1,2-Dichlorobenzene | 146 | 14.461 | 14.461 | 0.0 | 93 | 422986 | 21.9 | |
| 117 1,2-Dibromo-3-Chloropropane | 75 | 15.374 | 15.374 | 0.0 | 62 | 55463 | 19.0 | |
| 119 1,2,4-Trichlorobenzene | 180 | 16.430 | 16.430 | 0.0 | 92 | 312410 | 21.6 | |

Report Date: 17-Dec-2012 12:50:44 Chrom Revision: 2.0 22-Oct-2012 16:30:48
Data File: \\Bufchrom\ChromData\HP5973C\20121217-17619.b\C25368.D

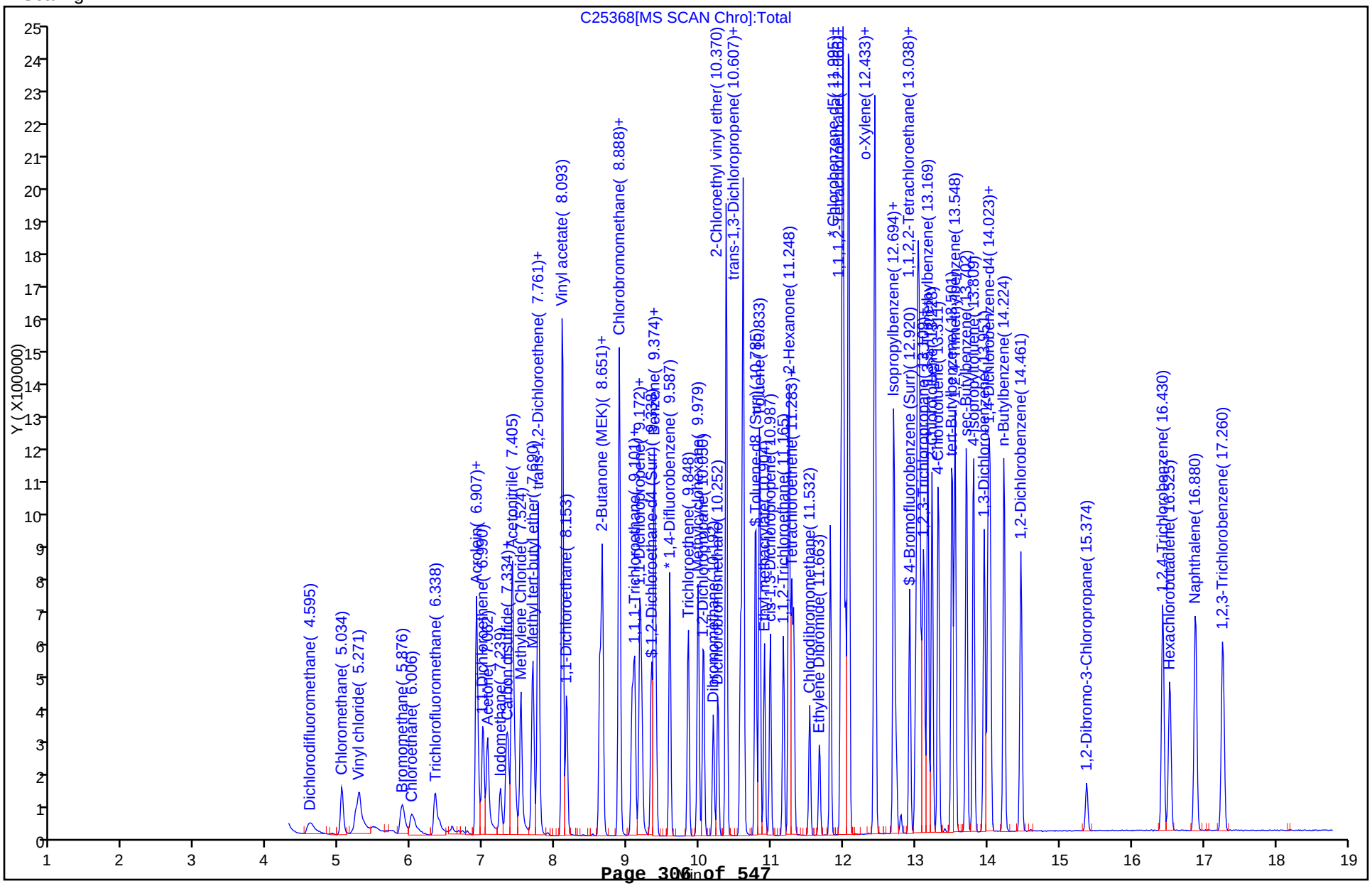
| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| 120 Hexachlorobutadiene | 225 | 16.537 | 16.537 | 0.0 | 92 | 138551 | 21.0 | |
| 121 Naphthalene | 128 | 16.880 | 16.880 | 0.0 | 98 | 838005 | 21.1 | |
| 122 1,2,3-Trichlorobenzene | 180 | 17.272 | 17.272 | 0.0 | 92 | 296213 | 21.3 | |
| S 125 1,2-Dichloroethene, Total | 1 | | | | 0 | | 47.0 | |
| S 126 1,3-Dichloropropene, Total | 1 | | | | 0 | | 44.9 | |
| S 123 Total BTEX | 1 | | | | 0 | | 141.4 | |
| S 124 Xylenes, Total | 1 | | | | 0 | | 69.3 | |

Report Date: 17-Dec-2012 12:50:45 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121217-17619.b\C25368.D | | |
| Injection Date: | 17-Dec-2012 11:43:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973C |
| Lims Batch ID: | 96178 | Lims Sample ID: | 2 |
| Operator ID: | LH | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Lab Sample ID: CCV 480-96178/3 Calibration Date: 12/17/2012 12:27

Instrument ID: HP5973C Calib Start Date: 12/09/2012 20:11

GC Column: ZB-624 (30) ID: 0.53(mm) Calib End Date: 12/09/2012 23:07

Lab File ID: C25369.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | Ave | 0.2327 | 0.2159 | | 23.2 | 25.0 | -7.2 | |
| Toluene-d8 (Surr) | Ave | 2.218 | 2.011 | | 22.7 | 25.0 | -9.3 | |
| 4-Bromofluorobenzene (Surr) | Ave | 0.7024 | 0.6092 | | 21.7 | 25.0 | -13.3 | |

Report Date: 17-Dec-2012 12:51:00 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121217-17619.b\C25369.D | | |
| Lims ID: | CCV | Client ID: | |
| Inject. Date: | 17-Dec-2012 12:27:30 | Dil. Factor: | 1.0000 |
| Sample Type: | CCV | | |
| Sample ID: | CCV | | |
| Misc. Info.: | 480-0017619-003 | | |
| Operator: | LH | Instrument ID: | HP5973C |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 55 |
| Lims Batch ID: | 96178 | Lims Sample ID: | 3 |
| Sublist: | chrom-C-8260*sub31 | | |
| Detector: | MS SCAN | | |
| Method: | \\Bufchrom\ChromData\HP5973C\20121217-17619.b\C-8260.m | | |
| Last Update: | 17-Dec-2012 12:51:00 | Calib Date: | 10-Dec-2012 03:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25063.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK033 | | |

First Level Reviewer: HillL Date: 17-Dec-2012 12:51:00

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 9.588 | 9.588 | 0.0 | 96 | 605895 | 25.0 | |
| * 2 Chlorobenzene-d5 | 82 | 11.971 | 11.971 | 0.0 | 87 | 333516 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.011 | 14.011 | 0.0 | 92 | 295733 | 25.0 | |
| $ 4 1,2-Dichloroethane-d4 (Surr) | 67 | 9.339 | 9.339 | 0.0 | 0 | 130801 | 23.2 | |
| $ 5 Toluene-d8 (Surr) | 98 | 10.785 | 10.785 | 0.0 | 94 | 670745 | 22.7 | |
| $ 6 4-Bromofluorobenzene (Surr) | 174 | 12.920 | 12.920 | 0.0 | 82 | 203186 | 21.7 | |
| 11 Chlorodifluoromethane | 51 | 4.643 | 4.643 | 0.0 | 78 | 360960 | 0 | |
| 16 Dichlorofluoromethane | 67 | 6.279 | 6.279 | 0.0 | 82 | 447077 | 0 | |
| 18 Ethyl ether | 59 | 6.659 | 6.659 | 0.0 | 94 | 232598 | 27.9 | |
| 19 Propene oxide | 58 | 6.801 | 6.801 | 0.0 | 95 | 304799 | 0 | |
| 24 Isopropyl alcohol | 45 | 7.145 | 7.145 | 0.0 | 98 | 351673 | 0 | |
| 28 3-Chloro-1-propene | 41 | 7.370 | 7.370 | 0.0 | 88 | 388638 | 28.0 | |
| 31 2-Methyl-2-propanol | 59 | 7.536 | 7.536 | 0.0 | 98 | 740736 | 511.1 | |
| 35 Hexane | 57 | 7.892 | 7.892 | 0.0 | 93 | 350778 | 0 | |
| 135 Halothane | 117 | 8.046 | 8.046 | 0.0 | 0 | 92777 | 21.6 | |
| 36 Isopropyl ether | 45 | 8.058 | 8.058 | 0.0 | 95 | 824073 | 27.5 | |
| 38 1,1-Dimethoxyethane | 75 | 8.153 | 8.153 | 0.0 | 98 | 242294 | 0 | |
| 40 2-Chloro-1,3-butadiene | 53 | 8.212 | 8.212 | 0.0 | 88 | 396389 | 0 | |
| 41 Tert-butyl ethyl ether | 59 | 8.366 | 8.366 | 0.0 | 99 | 781047 | 25.9 | |
| 42 Ethyl acetate | 43 | 8.580 | 8.580 | 0.0 | 99 | 286723 | 0 | |
| 46 Propionitrile | 54 | 8.722 | 8.722 | 0.0 | 99 | 451124 | 274.4 | |
| 47 Methacrylonitrile | 41 | 8.829 | 8.829 | 0.0 | 94 | 179525 | 0 | |
| 53 Isobutyl alcohol | 43 | 9.137 | 9.137 | 0.0 | 92 | 682723 | 0 | |
| 56 Tert-amyl methyl ether | 73 | 9.327 | 9.327 | 0.0 | 96 | 668897 | 25.5 | |
| 59 n-Heptane | 43 | 9.374 | 9.374 | 0.0 | 92 | 356619 | 28.0 | |
| 60 n-Butanol | 56 | 9.647 | 9.647 | 0.0 | 80 | 448689 | 0 | |
| 141 2,4,4-Trimethyl-1-pentene | 55 | 9.694 | 9.694 | 0.0 | 0 | 134859 | 24.1 | |
| 140 2,4,4-Trimethyl-2-pentene | 97 | 9.837 | 9.837 | 0.0 | 0 | 402246 | 25.5 | |
| 63 Methyl methacrylate | 41 | 9.979 | 9.979 | 0.0 | 92 | 249920 | 24.8 | |

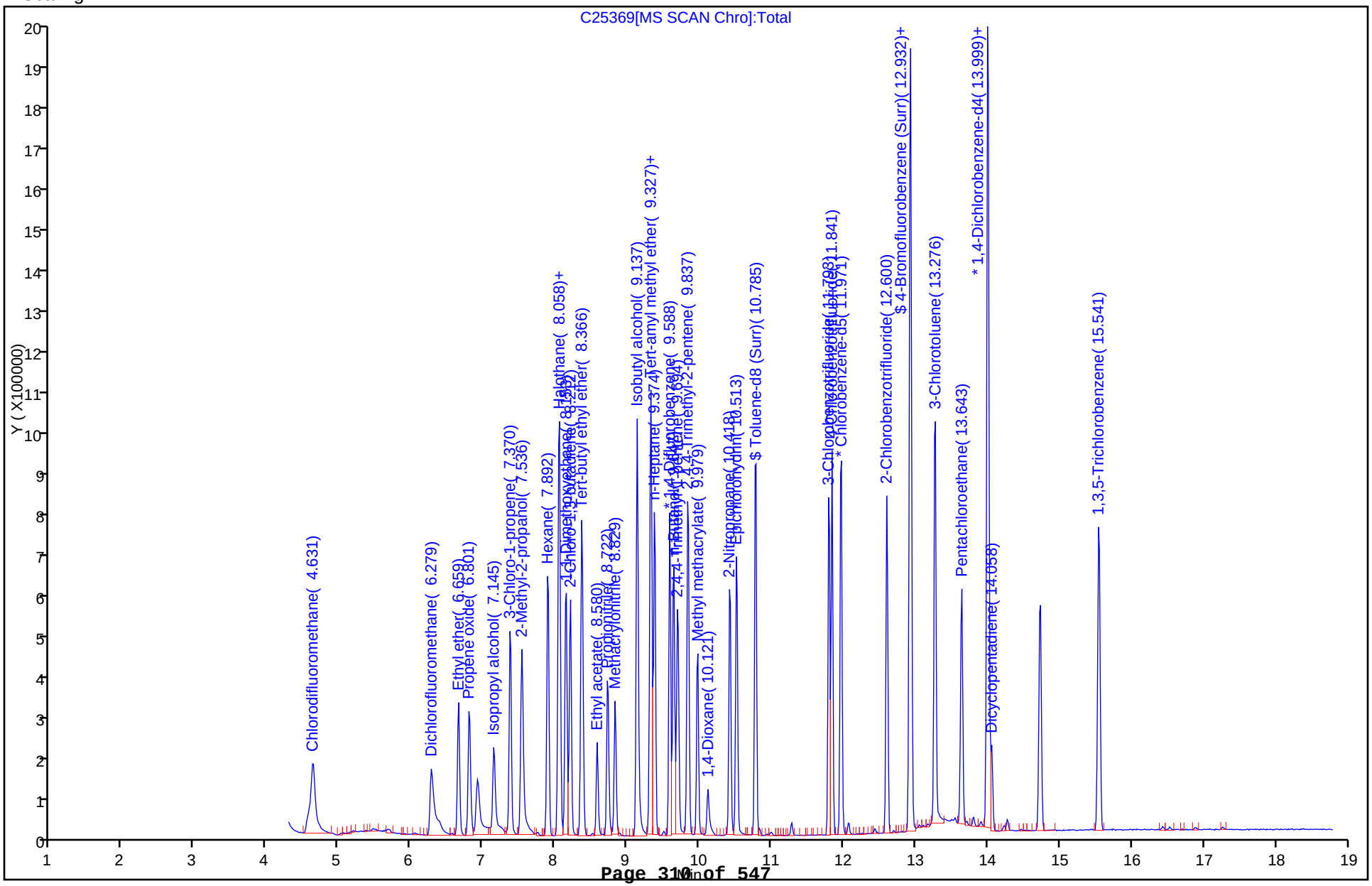
| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| 66 1,4-Dioxane | 88 | 10.121 | 10.121 | 0.0 | 98 | 102170 | 972.9 | |
| 70 2-Nitropropane | 43 | 10.418 | 10.418 | 0.0 | 99 | 483091 | 112.5 | |
| 71 Epichlorohydrin | 57 | 10.513 | 10.513 | 0.0 | 99 | 645799 | 0 | |
| 85 3-Chlorobenzotrifluoride | 180 | 11.805 | 11.805 | 0.0 | 94 | 301198 | 0 | |
| 86 4-Chlorobenzotrifluoride | 180 | 11.841 | 11.841 | 0.0 | 96 | 332336 | 0 | |
| 93 2-Chlorobenzotrifluoride | 180 | 12.600 | 12.600 | 0.0 | 93 | 293250 | 0 | |
| 96 Cyclohexanone | 55 | 12.932 | 12.932 | 0.0 | 95 | 735827 | 0 | |
| 104 3-Chlorotoluene | 126 | 13.276 | 13.276 | 0.0 | 98 | 238588 | 0 | |
| 108 Pentachloroethane | 167 | 13.643 | 13.643 | 0.0 | 87 | 123770 | 0 | |
| 112 1,2,3-Trimethylbenzene | 105 | 13.999 | 13.999 | 0.0 | 98 | 875954 | 0 | |
| 114 Dicyclopentadiene | 66 | 14.058 | 14.058 | 0.0 | 89 | 238099 | 0 | |
| 118 1,3,5-Trichlorobenzene | 180 | 15.541 | 15.541 | 0.0 | 95 | 333924 | 0 | |

Report Date: 17-Dec-2012 12:51:01 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121217-17619.b\C25369.D | | |
| Injection Date: | 17-Dec-2012 12:27:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973C |
| Lims Batch ID: | 96178 | Lims Sample ID: | 3 |
| Operator ID: | LH | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Lab Sample ID: CCV 480-96178/3 Calibration Date: 12/17/2012 12:27

Instrument ID: HP5973C Calib Start Date: 12/10/2012 01:38

GC Column: ZB-624 (30) ID: 0.53(mm) Calib End Date: 12/10/2012 03:44

Lab File ID: C25369.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Ethyl ether | Ave | 0.3441 | 0.3839 | | 27.9 | 25.0 | 11.6 | |
| 3-Chloro-1-propene | Ave | 0.5725 | 0.6414 | | 28.0 | 25.0 | 12.0 | |
| 2-Methyl-2-propanol | Ave | 0.0598 | 0.0611 | | 511 | 500 | 2.2 | |
| Halothane | Ave | 0.1771 | 0.1531 | | 21.6 | 25.0 | -13.5 | |
| Isopropyl ether | Ave | 1.237 | 1.360 | | 27.5 | 25.0 | 9.9 | |
| Tert-butyl ethyl ether | Ave | 1.246 | 1.289 | | 25.9 | 25.0 | 3.5 | |
| Propionitrile | Ave | 0.0678 | 0.0745 | | 274 | 250 | 9.8 | |
| Tert-amyl methyl ether | Ave | 1.081 | 1.104 | | 25.5 | 25.0 | 2.2 | |
| n-Heptane | Ave | 0.5247 | 0.5886 | | 28.0 | 25.0 | 12.2 | |
| 2,4,4-Trimethyl-1-pentene | Qua | | 0.2226 | | 24.1 | 25.0 | -3.7 | |
| 2,4,4-Trimethyl-2-pentene | Ave | 0.6510 | 0.6639 | | 25.5 | 25.0 | 2.0 | |
| 1,4-Dioxane | Ave | 0.0079 | 0.0077 | | 973 | 1000 | -2.7 | |
| 2-Nitropropane | Ave | 0.3631 | 0.3267 | | 112 | 125 | -10.0 | |

Report Date: 17-Dec-2012 12:51:00 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121217-17619.b\C25369.D | | |
| Lims ID: | CCV | Client ID: | |
| Inject. Date: | 17-Dec-2012 12:27:30 | Dil. Factor: | 1.0000 |
| Sample Type: | CCV | | |
| Sample ID: | CCV | | |
| Misc. Info.: | 480-0017619-003 | | |
| Operator: | LH | Instrument ID: | HP5973C |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 55 |
| Lims Batch ID: | 96178 | Lims Sample ID: | 3 |
| Sublist: | chrom-C-8260*sub31 | | |
| Detector: | MS SCAN | | |

| | | | |
|---|---|---|---|
| Method: | \\Bufchrom\ChromData\HP5973C\20121217-17619.b\C-8260.m | | |
| Last Update: | 17-Dec-2012 12:51:00 | Calib Date: | 10-Dec-2012 03:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25063.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK033 | | |

First Level Reviewer: HillL Date: 17-Dec-2012 12:51:00

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 9.588 | 9.588 | 0.0 | 96 | 605895 | 25.0 | |
| * 2 Chlorobenzene-d5 | 82 | 11.971 | 11.971 | 0.0 | 87 | 333516 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.011 | 14.011 | 0.0 | 92 | 295733 | 25.0 | |
| $ 4 1,2-Dichloroethane-d4 (Surr) | 67 | 9.339 | 9.339 | 0.0 | 0 | 130801 | 23.2 | |
| $ 5 Toluene-d8 (Surr) | 98 | 10.785 | 10.785 | 0.0 | 94 | 670745 | 22.7 | |
| $ 6 4-Bromofluorobenzene (Surr) | 174 | 12.920 | 12.920 | 0.0 | 82 | 203186 | 21.7 | |
| 11 Chlorodifluoromethane | 51 | 4.643 | 4.643 | 0.0 | 78 | 360960 | 0 | |
| 16 Dichlorofluoromethane | 67 | 6.279 | 6.279 | 0.0 | 82 | 447077 | 0 | |
| 18 Ethyl ether | 59 | 6.659 | 6.659 | 0.0 | 94 | 232598 | 27.9 | |
| 19 Propene oxide | 58 | 6.801 | 6.801 | 0.0 | 95 | 304799 | 0 | |
| 24 Isopropyl alcohol | 45 | 7.145 | 7.145 | 0.0 | 98 | 351673 | 0 | |
| 28 3-Chloro-1-propene | 41 | 7.370 | 7.370 | 0.0 | 88 | 388638 | 28.0 | |
| 31 2-Methyl-2-propanol | 59 | 7.536 | 7.536 | 0.0 | 98 | 740736 | 511.1 | |
| 35 Hexane | 57 | 7.892 | 7.892 | 0.0 | 93 | 350778 | 0 | |
| 135 Halothane | 117 | 8.046 | 8.046 | 0.0 | 0 | 92777 | 21.6 | |
| 36 Isopropyl ether | 45 | 8.058 | 8.058 | 0.0 | 95 | 824073 | 27.5 | |
| 38 1,1-Dimethoxyethane | 75 | 8.153 | 8.153 | 0.0 | 98 | 242294 | 0 | |
| 40 2-Chloro-1,3-butadiene | 53 | 8.212 | 8.212 | 0.0 | 88 | 396389 | 0 | |
| 41 Tert-butyl ethyl ether | 59 | 8.366 | 8.366 | 0.0 | 99 | 781047 | 25.9 | |
| 42 Ethyl acetate | 43 | 8.580 | 8.580 | 0.0 | 99 | 286723 | 0 | |
| 46 Propionitrile | 54 | 8.722 | 8.722 | 0.0 | 99 | 451124 | 274.4 | |
| 47 Methacrylonitrile | 41 | 8.829 | 8.829 | 0.0 | 94 | 179525 | 0 | |
| 53 Isobutyl alcohol | 43 | 9.137 | 9.137 | 0.0 | 92 | 682723 | 0 | |
| 56 Tert-amyl methyl ether | 73 | 9.327 | 9.327 | 0.0 | 96 | 668897 | 25.5 | |
| 59 n-Heptane | 43 | 9.374 | 9.374 | 0.0 | 92 | 356619 | 28.0 | |
| 60 n-Butanol | 56 | 9.647 | 9.647 | 0.0 | 80 | 448689 | 0 | |
| 141 2,4,4-Trimethyl-1-pentene | 55 | 9.694 | 9.694 | 0.0 | 0 | 134859 | 24.1 | |
| 140 2,4,4-Trimethyl-2-pentene | 97 | 9.837 | 9.837 | 0.0 | 0 | 402246 | 25.5 | |
| 63 Methyl methacrylate | 41 | 9.979 | 9.979 | 0.0 | 92 | 249920 | 24.8 | |

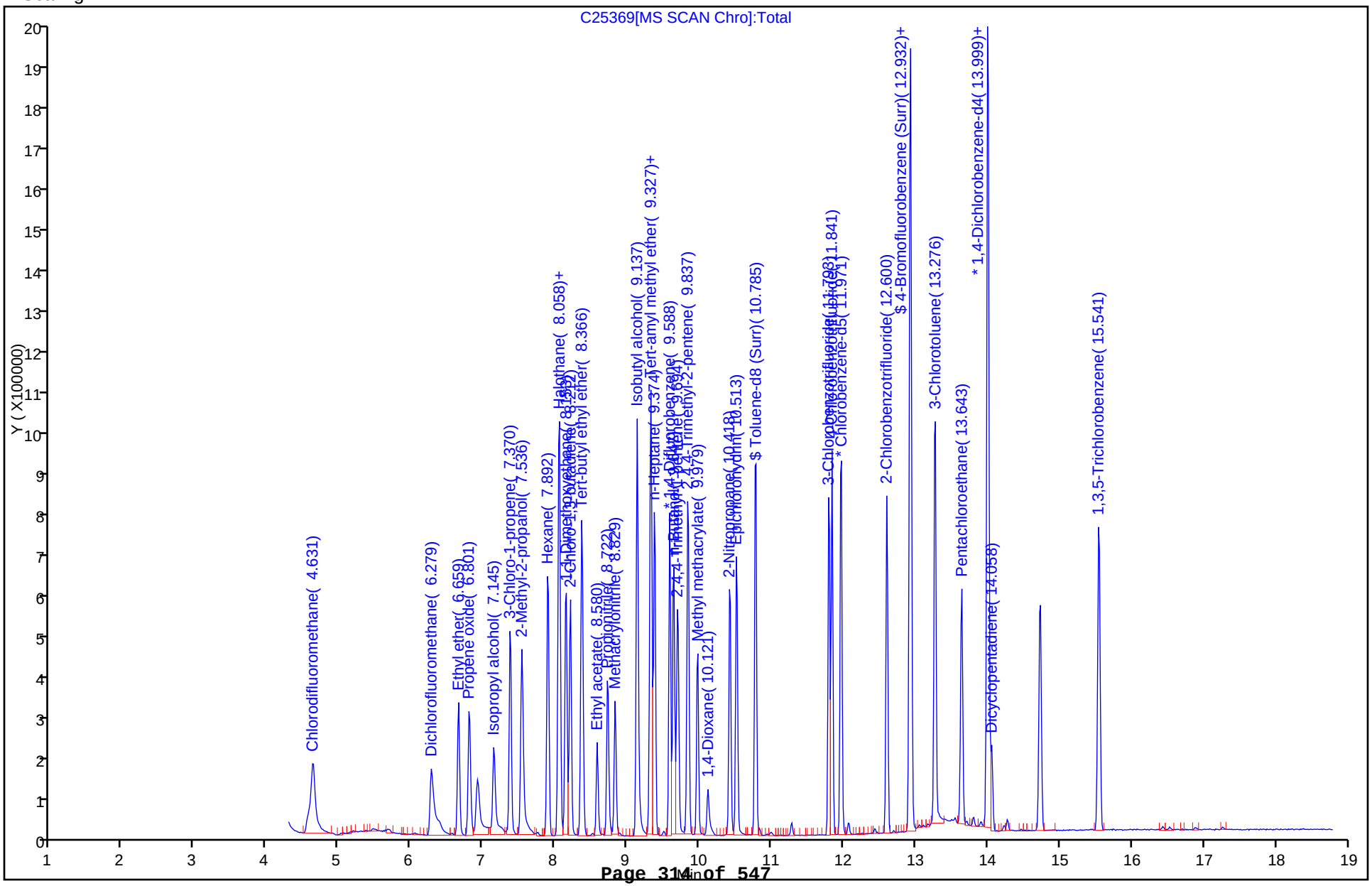
| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| 66 1,4-Dioxane | 88 | 10.121 | 10.121 | 0.0 | 98 | 102170 | 972.9 | |
| 70 2-Nitropropane | 43 | 10.418 | 10.418 | 0.0 | 99 | 483091 | 112.5 | |
| 71 Epichlorohydrin | 57 | 10.513 | 10.513 | 0.0 | 99 | 645799 | 0 | |
| 85 3-Chlorobenzotrifluoride | 180 | 11.805 | 11.805 | 0.0 | 94 | 301198 | 0 | |
| 86 4-Chlorobenzotrifluoride | 180 | 11.841 | 11.841 | 0.0 | 96 | 332336 | 0 | |
| 93 2-Chlorobenzotrifluoride | 180 | 12.600 | 12.600 | 0.0 | 93 | 293250 | 0 | |
| 96 Cyclohexanone | 55 | 12.932 | 12.932 | 0.0 | 95 | 735827 | 0 | |
| 104 3-Chlorotoluene | 126 | 13.276 | 13.276 | 0.0 | 98 | 238588 | 0 | |
| 108 Pentachloroethane | 167 | 13.643 | 13.643 | 0.0 | 87 | 123770 | 0 | |
| 112 1,2,3-Trimethylbenzene | 105 | 13.999 | 13.999 | 0.0 | 98 | 875954 | 0 | |
| 114 Dicyclopentadiene | 66 | 14.058 | 14.058 | 0.0 | 89 | 238099 | 0 | |
| 118 1,3,5-Trichlorobenzene | 180 | 15.541 | 15.541 | 0.0 | 95 | 333924 | 0 | |

Report Date: 17-Dec-2012 12:51:01 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121217-17619.b\C25369.D | | |
| Injection Date: | 17-Dec-2012 12:27:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973C |
| Lims Batch ID: | 96178 | Lims Sample ID: | 3 |
| Operator ID: | LH | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Lab Sample ID: CCVIS 480-95715/3 Calibration Date: 12/13/2012 22:01

Instrument ID: HP5973F Calib Start Date: 12/11/2012 15:52

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 12/11/2012 18:24

Lab File ID: F4299.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | Ave | 0.2631 | 0.3278 | 0.1000 | 62.3 | 50.0 | 24.6* | 20.0 |
| Chloromethane | Ave | 0.2989 | 0.3211 | 0.0500 | 53.7 | 50.0 | 7.4 | 20.0 |
| Vinyl chloride | Ave | 0.2792 | 0.3286 | 0.1000 | 58.8 | 50.0 | 17.7 | 20.0 |
| Bromomethane | Lin | | 0.0955 | 0.0500 | 47.7 | 50.0 | -4.7 | 20.0 |
| Chloroethane | Lin1 | | 0.0971* | 0.1000 | 48.0 | 50.0 | -4.1 | 20.0 |
| Trichlorofluoromethane | Ave | 0.3225 | 0.3877 | 0.1000 | 60.1 | 50.0 | 20.2* | 20.0 |
| Acrolein | Ave | 0.0631 | 0.0720 | | 1140 | 1000 | 14.2 | 20.0 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Ave | 0.2830 | 0.3564 | 0.1000 | 63.0 | 50.0 | 26.0* | 20.0 |
| 1,1-Dichloroethene | Ave | 0.3202 | 0.3766 | 0.1000 | 58.8 | 50.0 | 17.6 | 20.0 |
| Acetone | Ave | 0.1413 | 0.1657 | 0.0500 | 293 | 250 | 17.2 | 20.0 |
| Iodomethane | Ave | 0.5064 | 0.5454 | | 53.8 | 50.0 | 7.7 | 20.0 |
| Carbon disulfide | Ave | 0.9786 | 1.089 | 0.1000 | 55.6 | 50.0 | 11.3 | 20.0 |
| Methyl acetate | Ave | 0.4954 | 0.5550 | 0.1000 | 56.0 | 50.0 | 12.0 | 20.0 |
| Acetonitrile | Ave | 0.0322 | 0.0374 | | 2320 | 2000 | 16.1 | 20.0 |
| Methylene Chloride | Ave | 0.4322 | 0.4275 | 0.1000 | 49.5 | 50.0 | -1.1 | 20.0 |
| Methyl tert-butyl ether | Ave | 1.032 | 1.159 | 0.1000 | 56.2 | 50.0 | 12.3 | 20.0 |
| trans-1,2-Dichloroethene | Ave | 0.3853 | 0.4348 | 0.1000 | 56.4 | 50.0 | 12.8 | 20.0 |
| Acrylonitrile | Ave | 0.1756 | 0.2108 | | 300 | 250 | 20.0 | 20.0 |
| Vinyl acetate | Ave | 0.7275 | 0.8549 | | 294 | 250 | 17.5 | 20.0 |
| 1,1-Dichloroethane | Ave | 0.6239 | 0.6828 | 0.2000 | 54.7 | 50.0 | 9.4 | 20.0 |
| 2-Butanone (MEK) | Ave | 0.2327 | 0.2816 | 0.0500 | 303 | 250 | 21.0* | 20.0 |
| 2,2-Dichloropropane | Ave | 0.4793 | 0.5480 | | 57.2 | 50.0 | 14.3 | 20.0 |
| cis-1,2-Dichloroethene | Ave | 0.4214 | 0.4657 | 0.1000 | 55.3 | 50.0 | 10.5 | 20.0 |
| Chlorobromomethane | Ave | 0.2212 | 0.2445 | | 55.3 | 50.0 | 10.6 | 20.0 |
| Tetrahydrofuran | Ave | 0.1550 | 0.1882 | | 304 | 250 | 21.5* | 20.0 |
| Chloroform | Ave | 0.6048 | 0.6595 | 0.2000 | 54.5 | 50.0 | 9.0 | 20.0 |
| 1,1,1-Trichloroethane | Ave | 0.5169 | 0.5967 | 0.1000 | 57.7 | 50.0 | 15.4 | 20.0 |
| Cyclohexane | Ave | 0.5834 | 0.7177 | 0.1000 | 61.5 | 50.0 | 23.0* | 20.0 |
| 1,1-Dichloropropene | Ave | 0.4575 | 0.5437 | | 59.4 | 50.0 | 18.8 | 20.0 |
| Carbon tetrachloride | Ave | 0.4558 | 0.5348 | 0.1000 | 58.7 | 50.0 | 17.3 | 20.0 |
| Benzene | Ave | 1.438 | 1.608 | 0.5000 | 55.9 | 50.0 | 11.8 | 20.0 |
| 1,2-Dichloroethane | Ave | 0.4515 | 0.5042 | 0.1000 | 55.8 | 50.0 | 11.7 | 20.0 |
| Trichloroethene | Ave | 0.3882 | 0.4352 | 0.2000 | 56.1 | 50.0 | 12.1 | 20.0 |
| Methylcyclohexane | Ave | 0.5989 | 0.7617 | 0.1000 | 63.6 | 50.0 | 27.2* | 20.0 |
| 1,2-Dichloropropane | Ave | 0.3587 | 0.3999 | 0.1000 | 55.7 | 50.0 | 11.5 | 20.0 |
| Dibromomethane | Ave | 0.2159 | 0.2446 | | 56.6 | 50.0 | 13.3 | 20.0 |
| Dichlorobromomethane | Ave | 0.4354 | 0.4805 | 0.1000 | 55.2 | 50.0 | 10.4 | 20.0 |
| 2-Chloroethyl vinyl ether | Ave | 0.2532 | 0.2953 | | 292 | 250 | 16.6 | 20.0 |
| cis-1,3-Dichloropropene | Ave | 0.5589 | 0.6291 | 0.2000 | 56.3 | 50.0 | 12.6 | 20.0 |
| 4-Methyl-2-pentanone (MIBK) | Ave | 1.038 | 1.206 | 0.0500 | 291 | 250 | 16.2 | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Lab Sample ID: CCVIS 480-95715/3 Calibration Date: 12/13/2012 22:01

Instrument ID: HP5973F Calib Start Date: 12/11/2012 15:52

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 12/11/2012 18:24

Lab File ID: F4299.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Toluene | Ave | 2.220 | 2.404 | 0.4000 | 54.1 | 50.0 | 8.3 | 20.0 |
| Ethyl methacrylate | Ave | 1.160 | 1.339 | | 57.7 | 50.0 | 15.5 | 20.0 |
| trans-1,3-Dichloropropene | Ave | 1.151 | 1.286 | 0.1000 | 55.9 | 50.0 | 11.7 | 20.0 |
| 1,1,2-Trichloroethane | Ave | 0.6102 | 0.6767 | 0.1000 | 55.4 | 50.0 | 10.9 | 20.0 |
| Tetrachloroethene | Ave | 1.014 | 1.153 | 0.1000 | 56.8 | 50.0 | 13.7 | 20.0 |
| 1,3-Dichloropropane | Ave | 1.250 | 1.369 | | 54.7 | 50.0 | 9.5 | 20.0 |
| 2-Hexanone | Ave | 0.7632 | 0.9140 | 0.0500 | 299 | 250 | 19.8 | 20.0 |
| Chlorodibromomethane | Ave | 0.8572 | 0.9585 | 0.1000 | 55.9 | 50.0 | 11.8 | 20.0 |
| Ethylene Dibromide | Ave | 0.8598 | 0.9521 | 0.1000 | 55.4 | 50.0 | 10.7 | 20.0 |
| Chlorobenzene | Ave | 2.667 | 2.905 | 0.5000 | 54.4 | 50.0 | 8.9 | 20.0 |
| Ethylbenzene | Ave | 4.109 | 4.497 | 0.1000 | 54.7 | 50.0 | 9.5 | 20.0 |
| 1,1,1,2-Tetrachloroethane | Ave | 0.9133 | 0.999 | | 54.7 | 50.0 | 9.4 | 20.0 |
| m-Xylene & p-Xylene | Ave | 1.736 | 1.907 | 0.1000 | 110 | 100 | 9.9 | 20.0 |
| o-Xylene | Ave | 1.699 | 1.851 | 0.3000 | 54.5 | 50.0 | 9.0 | 20.0 |
| Styrene | Ave | 2.827 | 3.113 | 0.3000 | 55.1 | 50.0 | 10.1 | 20.0 |
| Bromoform | Lin1 | | 0.6709 | 0.1000 | 50.3 | 50.0 | 0.7 | 20.0 |
| Isopropylbenzene | Ave | 3.814 | 4.078 | 0.1000 | 53.5 | 50.0 | 6.9 | 20.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.9749 | 1.092 | 0.3000 | 56.0 | 50.0 | 12.0 | 20.0 |
| Bromobenzene | Ave | 1.092 | 1.149 | | 52.6 | 50.0 | 5.3 | 20.0 |
| N-Propylbenzene | Ave | 4.398 | 4.796 | | 54.5 | 50.0 | 9.1 | 20.0 |
| trans-1,4-Dichloro-2-butene | Ave | 0.2603 | 0.2985 | | 287 | 250 | 14.7 | 20.0 |
| 1,2,3-Trichloropropane | Ave | 0.3138 | 0.3470 | | 55.3 | 50.0 | 10.6 | 20.0 |
| 2-Chlorotoluene | Ave | 1.044 | 1.095 | | 52.5 | 50.0 | 4.9 | 20.0 |
| 1,3,5-Trimethylbenzene | Ave | 3.267 | 3.482 | | 53.3 | 50.0 | 6.6 | 20.0 |
| 4-Chlorotoluene | Ave | 1.075 | 1.142 | | 53.1 | 50.0 | 6.3 | 20.0 |
| tert-Butylbenzene | Ave | 0.7952 | 0.8705 | | 54.7 | 50.0 | 9.5 | 20.0 |
| 1,2,4-Trimethylbenzene | Ave | 3.282 | 3.484 | | 53.1 | 50.0 | 6.1 | 20.0 |
| sec-Butylbenzene | Ave | 4.134 | 4.515 | | 54.6 | 50.0 | 9.2 | 20.0 |
| 4-Isopropyltoluene | Ave | 3.831 | 4.185 | | 54.6 | 50.0 | 9.2 | 20.0 |
| 1,3-Dichlorobenzene | Ave | 2.084 | 2.197 | 0.6000 | 52.7 | 50.0 | 5.5 | 20.0 |
| 1,4-Dichlorobenzene | Ave | 2.115 | 2.235 | 0.5000 | 52.8 | 50.0 | 5.7 | 20.0 |
| n-Butylbenzene | Ave | 3.043 | 3.385 | | 55.6 | 50.0 | 11.2 | 20.0 |
| 1,2-Dichlorobenzene | Ave | 1.996 | 2.104 | 0.4000 | 52.7 | 50.0 | 5.4 | 20.0 |
| 1,2-Dibromo-3-Chloropropane | Ave | 0.1755 | 0.2130 | 0.0500 | 60.7 | 50.0 | 21.4* | 20.0 |
| 1,2,4-Trichlorobenzene | Ave | 1.310 | 1.475 | 0.2000 | 56.3 | 50.0 | 12.6 | 20.0 |
| Hexachlorobutadiene | Ave | 0.6909 | 0.7729 | | 55.9 | 50.0 | 11.9 | 20.0 |
| Naphthalene | Ave | 3.700 | 4.164 | | 56.3 | 50.0 | 12.5 | 20.0 |
| 1,2,3-Trichlorobenzene | Ave | 1.181 | 1.357 | | 57.4 | 50.0 | 14.9 | 20.0 |
| 1,2-Dichloroethane-d4 (Surr) | Ave | 0.1813 | 0.1605 | | 44.3 | 50.0 | -11.5 | 20.0 |
| Toluene-d8 (Surr) | Ave | 3.017 | 2.726 | | 45.2 | 50.0 | -9.6 | 20.0 |
| 4-Bromofluorobenzene (Surr) | Ave | 1.064 | 0.9313 | | 43.8 | 50.0 | -12.5 | 20.0 |

TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4299.D | | |
| Lims ID: | CCVIS | Client ID: | |
| Inject. Date: | 13-Dec-2012 22:01:30 | Dil. Factor: | 1.0000 |
| Sample Type: | CCVIS | | |
| Sample ID: | CCVIS | | |
| Misc. Info.: | 480-0017526-003 =480-0017526-003 | | |
| Operator: | CDC | Instrument ID: | HP5973F |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 2 |
| Lims Batch ID: | 95715 | Lims Sample ID: | 3 |
| Sublist: | chrom-F-8260 SOIL*sub1 | | |
| Detector: | MS SCAN | | |

| | | | |
|---|---|---|---|
| Method: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F-8260 SOIL.m | | |
| Last Update: | 13-Dec-2012 22:09:33 | Calib Date: | 11-Dec-2012 23:36:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4239.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK014 | | |

First Level Reviewer: cwiklinc Date: 13-Dec-2012 22:09:33

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 5.608 | 5.608 | 0.0 | 93 | 353192 | 50.0 | |
| * 2 Chlorobenzene-d5 | 82 | 8.382 | 8.382 | 0.0 | 71 | 156893 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 10.700 | 10.700 | 0.0 | 86 | 182598 | 50.0 | |
| $ 4 1,2-Dichloroethane-d4 (Surr) | 67 | 5.304 | 5.304 | 0.0 | 94 | 56696 | 44.3 | |
| $ 5 Toluene-d8 (Surr) | 98 | 6.928 | 6.928 | 0.0 | 90 | 427694 | 45.2 | |
| $ 6 4-Bromofluorobenzene (Surr) | 174 | 9.593 | 9.593 | 0.0 | 92 | 146112 | 43.8 | |
| 10 Dichlorodifluoromethane | 85 | 1.995 | 1.995 | 0.0 | 87 | 115774 | 62.3 | |
| 12 Chloromethane | 50 | 2.147 | 2.147 | 0.0 | 89 | 113419 | 53.7 | |
| 13 Vinyl chloride | 62 | 2.268 | 2.268 | 0.0 | 83 | 116058 | 58.8 | |
| 14 Bromomethane | 94 | 2.548 | 2.548 | 0.0 | 88 | 33733 | 47.7 | |
| 15 Chloroethane | 64 | 2.621 | 2.621 | 0.0 | 97 | 34310 | 48.0 | |
| 17 Trichlorofluoromethane | 101 | 2.846 | 2.846 | 0.0 | 82 | 136937 | 60.1 | |
| 20 Acrolein | 56 | 3.187 | 3.187 | 0.0 | 96 | 508823 | 1142.4 | |
| 21 1,1,2-Trichloro-1,2,2-trifluoroe | 101 | 3.224 | 3.224 | 0.0 | 79 | 125889 | 63.0 | |
| 22 1,1-Dichloroethene | 96 | 3.254 | 3.254 | 0.0 | 85 | 133009 | 58.8 | |
| 23 Acetone | 43 | 3.303 | 3.303 | 0.0 | 97 | 292537 | 293.0 | |
| 25 Iodomethane | 142 | 3.418 | 3.418 | 0.0 | 96 | 192618 | 53.8 | |
| 26 Carbon disulfide | 76 | 3.467 | 3.467 | 0.0 | 99 | 384617 | 55.6 | |
| 27 Methyl acetate | 43 | 3.528 | 3.528 | 0.0 | 90 | 196030 | 56.0 | |
| 29 Acetonitrile | 40 | 3.558 | 3.558 | 0.0 | 100 | 528461 | 2321.8 | |
| 30 Methylene Chloride | 84 | 3.643 | 3.643 | 0.0 | 85 | 151001 | 49.5 | |
| 32 Methyl tert-butyl ether | 73 | 3.801 | 3.801 | 0.0 | 89 | 409283 | 56.2 | |
| 34 trans-1,2-Dichloroethene | 96 | 3.832 | 3.832 | 0.0 | 96 | 153568 | 56.4 | |
| 33 Acrylonitrile | 53 | 3.850 | 3.850 | 0.0 | 99 | 372222 | 300.1 | |
| 37 Vinyl acetate | 43 | 4.154 | 4.154 | 0.0 | 97 | 1509669 | 293.8 | |
| 39 1,1-Dichloroethane | 63 | 4.173 | 4.173 | 0.0 | 84 | 241163 | 54.7 | |
| 43 2-Butanone (MEK) | 43 | 4.617 | 4.617 | 0.0 | 100 | 497354 | 302.5 | |
| 44 2,2-Dichloropropane | 77 | 4.623 | 4.623 | 0.0 | 75 | 193551 | 57.2 | |
| 45 cis-1,2-Dichloroethene | 96 | 4.629 | 4.629 | 0.0 | 69 | 164493 | 55.3 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 48 Chlorobromomethane | 128 | 4.842 | 4.842 | 0.0 | 86 | 86364 | 55.3 | |
| 49 Tetrahydrofuran | 42 | 4.854 | 4.854 | 0.0 | 89 | 332424 | 303.7 | |
| 50 Chloroform | 83 | 4.872 | 4.872 | 0.0 | 81 | 232934 | 54.5 | |
| 51 1,1,1-Trichloroethane | 97 | 5.018 | 5.018 | 0.0 | 92 | 210739 | 57.7 | |
| 52 Cyclohexane | 56 | 5.049 | 5.049 | 0.0 | 89 | 253482 | 61.5 | |
| 54 1,1-Dichloropropene | 75 | 5.140 | 5.140 | 0.0 | 94 | 192029 | 59.4 | |
| 55 Carbon tetrachloride | 117 | 5.146 | 5.146 | 0.0 | 78 | 188883 | 58.7 | |
| 57 Benzene | 78 | 5.328 | 5.328 | 0.0 | 97 | 567869 | 55.9 | |
| 58 1,2-Dichloroethane | 62 | 5.365 | 5.365 | 0.0 | 77 | 178090 | 55.8 | |
| 62 Trichloroethene | 95 | 5.852 | 5.852 | 0.0 | 90 | 153703 | 56.1 | |
| 64 Methylcyclohexane | 83 | 5.985 | 5.985 | 0.0 | 89 | 269021 | 63.6 | |
| 65 1,2-Dichloropropane | 63 | 6.077 | 6.077 | 0.0 | 96 | 141244 | 55.7 | |
| 67 Dibromomethane | 93 | 6.211 | 6.211 | 0.0 | 87 | 86378 | 56.6 | |
| 68 Dichlorobromomethane | 83 | 6.320 | 6.320 | 0.0 | 92 | 169724 | 55.2 | |
| 69 2-Chloroethyl vinyl ether | 63 | 6.521 | 6.521 | 0.0 | 91 | 521486 | 291.6 | |
| 72 cis-1,3-Dichloropropene | 75 | 6.697 | 6.697 | 0.0 | 89 | 222178 | 56.3 | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | 6.801 | 6.801 | 0.0 | 95 | 945912 | 290.6 | |
| 74 Toluene | 92 | 6.995 | 6.995 | 0.0 | 92 | 377137 | 54.1 | |
| 75 Ethyl methacrylate | 69 | 7.208 | 7.208 | 0.0 | 90 | 210141 | 57.7 | |
| 77 trans-1,3-Dichloropropene | 75 | 7.214 | 7.214 | 0.0 | 94 | 201778 | 55.9 | |
| 79 1,1,2-Trichloroethane | 83 | 7.415 | 7.415 | 0.0 | 84 | 106161 | 55.4 | |
| 81 Tetrachloroethene | 166 | 7.519 | 7.519 | 0.0 | 91 | 180837 | 56.8 | |
| 82 1,3-Dichloropropane | 76 | 7.585 | 7.585 | 0.0 | 90 | 214770 | 54.7 | |
| 80 2-Hexanone | 43 | 7.592 | 7.592 | 0.0 | 95 | 717029 | 299.4 | |
| 83 Chlorodibromomethane | 129 | 7.829 | 7.829 | 0.0 | 87 | 150380 | 55.9 | |
| 84 Ethylene Dibromide | 107 | 7.957 | 7.957 | 0.0 | 97 | 149382 | 55.4 | |
| 87 Chlorobenzene | 112 | 8.413 | 8.413 | 0.0 | 95 | 455718 | 54.4 | |
| 88 Ethylbenzene | 91 | 8.474 | 8.474 | 0.0 | 97 | 705595 | 54.7 | |
| 89 1,1,1,2-Tetrachloroethane | 131 | 8.492 | 8.492 | 0.0 | 89 | 156728 | 54.7 | |
| 90 m-Xylene & p-Xylene | 106 | 8.589 | 8.589 | 0.0 | 100 | 598532 | 109.9 | |
| 91 o-Xylene | 106 | 9.021 | 9.021 | 0.0 | 94 | 290438 | 54.5 | |
| 92 Styrene | 104 | 9.046 | 9.046 | 0.0 | 95 | 488394 | 55.1 | |
| 95 Bromoform | 173 | 9.319 | 9.319 | 0.0 | 98 | 105261 | 50.3 | |
| 94 Isopropylbenzene | 105 | 9.386 | 9.386 | 0.0 | 94 | 744603 | 53.5 | |
| 97 1,1,2,2-Tetrachloroethane | 83 | 9.757 | 9.757 | 0.0 | 83 | 199360 | 56.0 | |
| 101 Bromobenzene | 156 | 9.769 | 9.769 | 0.0 | 86 | 209816 | 52.6 | |
| 99 N-Propylbenzene | 91 | 9.800 | 9.800 | 0.0 | 95 | 875701 | 54.5 | |
| 98 trans-1,4-Dichloro-2-butene | 53 | 9.800 | 9.800 | 0.0 | 58 | 272565 | 286.7 | |
| 100 1,2,3-Trichloropropane | 110 | 9.812 | 9.812 | 0.0 | 62 | 63363 | 55.3 | |
| 103 2-Chlorotoluene | 126 | 9.928 | 9.928 | 0.0 | 98 | 199929 | 52.5 | |
| 102 1,3,5-Trimethylbenzene | 105 | 9.964 | 9.964 | 0.0 | 93 | 635842 | 53.3 | |
| 105 4-Chlorotoluene | 126 | 10.031 | 10.031 | 0.0 | 96 | 208482 | 53.1 | |
| 106 tert-Butylbenzene | 134 | 10.281 | 10.281 | 0.0 | 87 | 158953 | 54.7 | |
| 107 1,2,4-Trimethylbenzene | 105 | 10.329 | 10.329 | 0.0 | 94 | 636132 | 53.1 | |
| 109 sec-Butylbenzene | 105 | 10.481 | 10.481 | 0.0 | 93 | 824453 | 54.6 | |
| 110 4-Isopropyltoluene | 119 | 10.603 | 10.603 | 0.0 | 94 | 764163 | 54.6 | |
| 111 1,3-Dichlorobenzene | 146 | 10.639 | 10.639 | 0.0 | 90 | 401246 | 52.7 | |
| 113 1,4-Dichlorobenzene | 146 | 10.725 | 10.725 | 0.0 | 96 | 408103 | 52.8 | |
| 115 n-Butylbenzene | 91 | 10.974 | 10.974 | 0.0 | 93 | 618057 | 55.6 | |
| 116 1,2-Dichlorobenzene | 146 | 11.065 | 11.065 | 0.0 | 98 | 384198 | 52.7 | |
| 117 1,2-Dibromo-3-Chloropropane | 75 | 11.741 | 11.741 | 0.0 | 83 | 38891 | 60.7 | |
| 119 1,2,4-Trichlorobenzene | 180 | 12.385 | 12.385 | 0.0 | 94 | 269325 | 56.3 | |

Report Date: 13-Dec-2012 22:09:34 Chrom Revision: 2.0 22-Oct-2012 16:30:48
Data File: \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4299.D

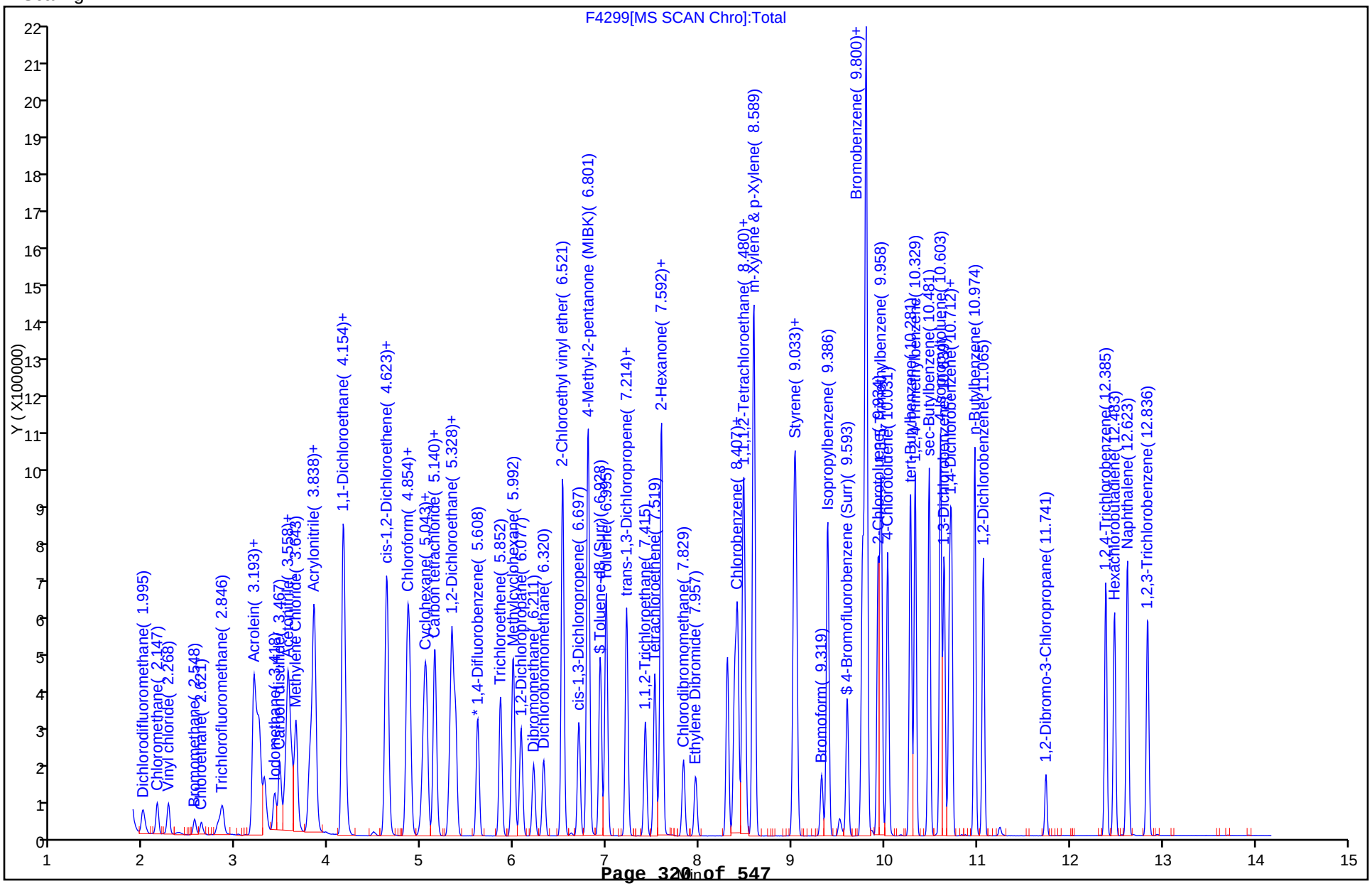
| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 120 Hexachlorobutadiene | 225 | 12.483 | 12.483 | 0.0 | 95 | 141136 | 55.9 | |
| 121 Naphthalene | 128 | 12.623 | 12.623 | 0.0 | 96 | 760362 | 56.3 | |
| 122 1,2,3-Trichlorobenzene | 180 | 12.842 | 12.842 | 0.0 | 96 | 247846 | 57.4 | |
| S 123 Total BTEX | 1 | | | | 0 | | 329.2 | |
| S 124 Xylenes, Total | 1 | | | | 0 | | 164.4 | |
| S 125 1,2-Dichloroethene, Total | 1 | | | | 0 | | 111.7 | |
| S 126 1,3-Dichloropropene, Total | 1 | | | | 0 | | 112.1 | |

Report Date: 13-Dec-2012 22:09:34 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4299.D | | |
| Injection Date: | 13-Dec-2012 22:01:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 3 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Lab Sample ID: CCV 480-95715/4 Calibration Date: 12/13/2012 22:42

Instrument ID: HP5973F Calib Start Date: 12/11/2012 15:52

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 12/11/2012 18:24

Lab File ID: F4300.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | Ave | 0.1813 | 0.1612 | | 44.5 | 50.0 | -11.1 | 20.0 |
| Toluene-d8 (Surr) | Ave | 3.017 | 2.750 | | 45.6 | 50.0 | -8.9 | 20.0 |
| 4-Bromofluorobenzene (Surr) | Ave | 1.064 | 0.9224 | | 43.3 | 50.0 | -13.3 | 20.0 |

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4300.D
Lims ID: CCV Client ID:
Inject. Date: 13-Dec-2012 22:42:30 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: CCV
Misc. Info.: 480-0017526-004 =480-0017526-004
Operator: CDC Instrument ID: HP5973F
Purge Vol: 5.000 mL ALS Bottle#: 3
Lims Batch ID: 95715 Lims Sample ID: 4
Sublist: chrom-F-8260 SOIL*sub16
Detector: MS SCAN

Method: \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F-8260 SOIL.m
Last Update: 14-Dec-2012 00:53:57 Calib Date: 11-Dec-2012 23:36:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4239.D
Limit Group: MV - 8260MCP_RCP
Integrator: RTE ID Type: Deconvolution ID
Column Type: ZB-624 Column Dia: 0.25 mm
Process Host: XAWRK014

First Level Reviewer: cwiklinc Date: 14-Dec-2012 00:53:57

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 5.608 | 5.608 | 0.0 | 92 | 345497 | 50.0 | |
| * 2 Chlorobenzene-d5 | 82 | 8.382 | 8.382 | 0.0 | 82 | 151060 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 10.700 | 10.700 | 0.0 | 88 | 170730 | 50.0 | |
| $ 4 1,2-Dichloroethane-d4 (Surr) | 67 | 5.304 | 5.304 | 0.0 | 99 | 55699 | 44.5 | |
| $ 5 Toluene-d8 (Surr) | 98 | 6.928 | 6.928 | 0.0 | 91 | 415373 | 45.6 | |
| $ 6 4-Bromofluorobenzene (Surr) | 174 | 9.599 | 9.599 | 0.0 | 91 | 139331 | 43.3 | |
| 11 Chlorodifluoromethane | 51 | 2.013 | 2.013 | 0.0 | 76 | 153044 | 0 | |
| 16 Dichlorofluoromethane | 67 | 2.810 | 2.810 | 0.0 | 82 | 169610 | 0 | |
| 18 Ethyl ether | 59 | 3.035 | 3.035 | 0.0 | 91 | 122036 | 57.6 | |
| 19 Propene oxide | 58 | 3.132 | 3.132 | 0.0 | 94 | 204241 | 0 | |
| 24 Isopropyl alcohol | 45 | 3.400 | 3.400 | 0.0 | 99 | 323748 | 0 | |
| 28 3-Chloro-1-propene | 41 | 3.540 | 3.540 | 0.0 | 92 | 243549 | 59.8 | |
| 31 2-Methyl-2-propanol | 59 | 3.704 | 3.704 | 0.0 | 98 | 540058 | 1087.6 | |
| 35 Hexane | 57 | 3.978 | 3.978 | 0.0 | 91 | 249518 | 0 | |
| 36 Isopropyl ether | 45 | 4.130 | 4.130 | 0.0 | 95 | 483450 | 56.2 | |
| 134 Halothane | 117 | 4.130 | 4.130 | 0.0 | 0 | 84718 | 58.5 | |
| 38 1,1-Dimethoxyethane | 75 | 4.203 | 4.203 | 0.0 | 94 | 195489 | 0 | |
| 40 2-Chloro-1,3-butadiene | 53 | 4.227 | 4.227 | 0.0 | 87 | 220548 | 0 | |
| 41 Tert-butyl ethyl ether | 59 | 4.416 | 4.416 | 0.0 | 97 | 428216 | 54.0 | |
| 42 Ethyl acetate | 43 | 4.610 | 4.610 | 0.0 | 98 | 177658 | 0 | |
| 46 Propionitrile | 54 | 4.720 | 4.720 | 0.0 | 100 | 287747 | 561.7 | |
| 47 Methacrylonitrile | 41 | 4.817 | 4.817 | 0.0 | 92 | 104863 | 0 | |
| 53 Isobutyl alcohol | 43 | 5.194 | 5.194 | 0.0 | 94 | 510528 | 0 | |
| 56 Tert-amyl methyl ether | 73 | 5.347 | 5.347 | 0.0 | 97 | 386473 | 55.3 | |
| 59 n-Heptane | 43 | 5.420 | 5.420 | 0.0 | 93 | 265274 | 61.9 | |
| 136 2,4,4-Trimethyl-1-pentene | 55 | 5.736 | 5.736 | 0.0 | 0 | 170650 | 66.3 | |
| 60 n-Butanol | 56 | 5.748 | 5.748 | 0.0 | 91 | 423284 | 0 | |
| 135 2,4,4-Trimethyl-2-pentene | 97 | 5.918 | 5.918 | 0.0 | 0 | 345456 | 61.9 | |
| 63 Methyl methacrylate | 41 | 6.083 | 6.083 | 0.0 | 90 | 139763 | 54.5 | |

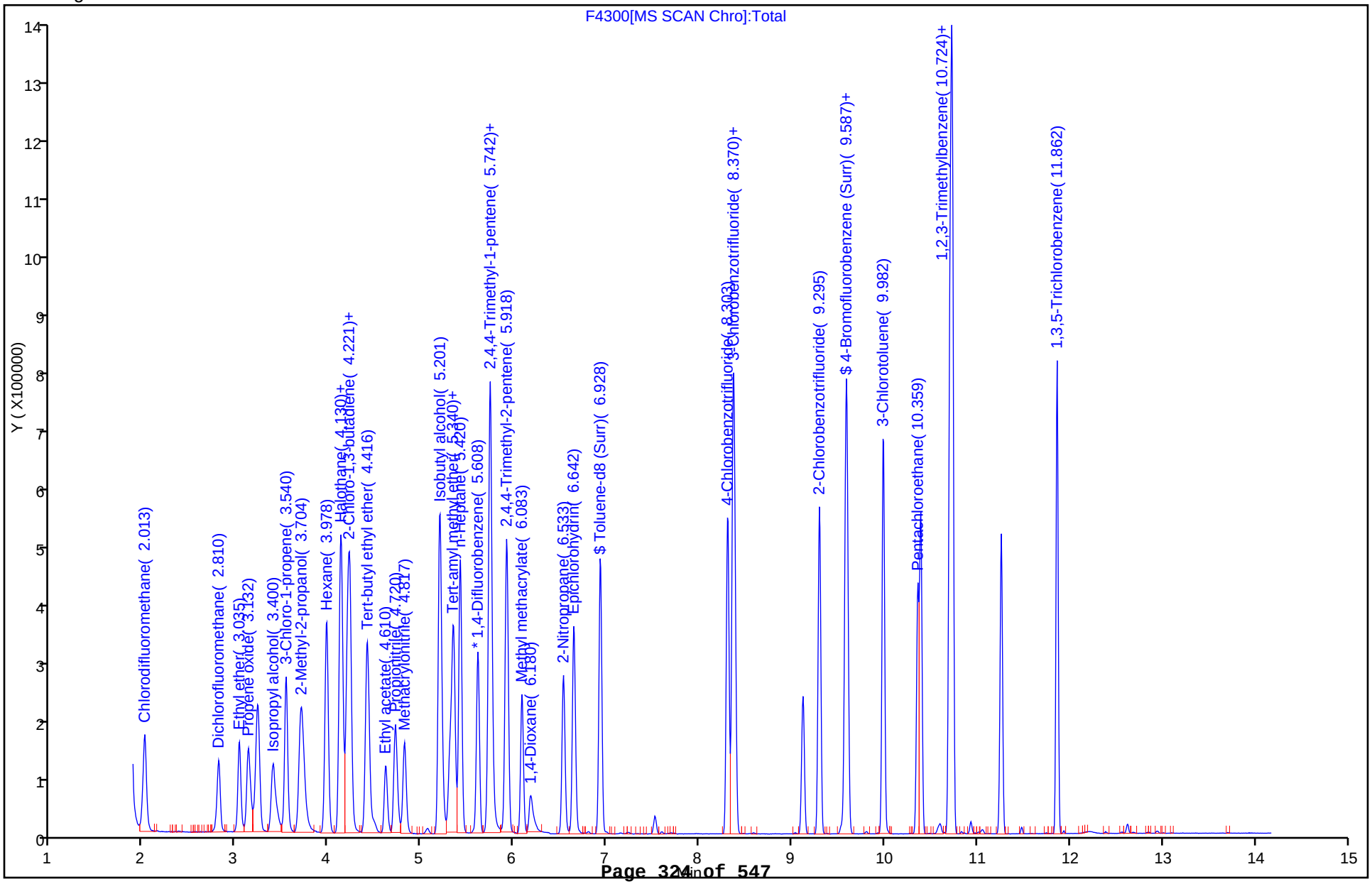
| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 66 1,4-Dioxane | 88 | 6.174 | 6.174 | 0.0 | 91 | 97376 | 2148.4 | |
| 70 2-Nitropropane | 43 | 6.533 | 6.533 | 0.0 | 96 | 252416 | 278.0 | |
| 71 Epichlorohydrin | 57 | 6.642 | 6.642 | 0.0 | 98 | 426903 | 0 | |
| 86 4-Chlorobenzotrifluoride | 180 | 8.309 | 8.309 | 0.0 | 91 | 272634 | 0 | |
| 85 3-Chlorobenzotrifluoride | 180 | 8.364 | 8.364 | 0.0 | 91 | 269871 | 0 | |
| 93 2-Chlorobenzotrifluoride | 180 | 9.295 | 9.295 | 0.0 | 97 | 266947 | 0 | |
| 96 Cyclohexanone | 55 | 9.581 | 9.581 | 0.0 | 91 | 312093 | 0 | |
| 104 3-Chlorotoluene | 126 | 9.988 | 9.988 | 0.0 | 95 | 207265 | 0 | |
| 108 Pentachloroethane | 167 | 10.359 | 10.359 | 0.0 | 87 | 93263 | 0 | |
| 114 Dicyclopentadiene | 66 | 10.718 | 10.718 | 0.0 | 96 | 671633 | 0 | |
| 112 1,2,3-Trimethylbenzene | 105 | 10.731 | 10.731 | 0.0 | 97 | 630210 | 0 | |
| 118 1,3,5-Trichlorobenzene | 180 | 11.862 | 11.862 | 0.0 | 97 | 291094 | 0 | |

Report Date: 14-Dec-2012 00:53:57 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4300.D | | |
| Injection Date: | 13-Dec-2012 22:42:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 4 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Lab Sample ID: CCV 480-95715/4 Calibration Date: 12/13/2012 22:42

Instrument ID: HP5973F Calib Start Date: 12/11/2012 18:50

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 12/11/2012 23:36

Lab File ID: F4300.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Ethyl ether | Ave | 0.3064 | 0.3532 | | 57.6 | 50.0 | 15.3 | 20.0 |
| 3-Chloro-1-propene | Lin1 | | 0.7049 | | 59.8 | 50.0 | 19.6 | 20.0 |
| 2-Methyl-2-propanol | Ave | 0.0719 | 0.0782 | | 1090 | 1000 | 8.8 | 20.0 |
| Halothane | Ave | 0.2095 | 0.2452 | | 58.5 | 50.0 | 17.0 | 20.0 |
| Isopropyl ether | Ave | 1.244 | 1.399 | | 56.2 | 50.0 | 12.5 | 20.0 |
| Tert-butyl ethyl ether | Ave | 1.148 | 1.239 | | 54.0 | 50.0 | 8.0 | 20.0 |
| Propionitrile | Ave | 0.0741 | 0.0833 | | 562 | 500 | 12.3 | 20.0 |
| Tert-amyl methyl ether | Ave | 1.011 | 1.119 | | 55.3 | 50.0 | 10.6 | 20.0 |
| n-Heptane | Ave | 0.6203 | 0.7678 | | 61.9 | 50.0 | 23.8* | 20.0 |
| 2,4,4-Trimethyl-1-pentene | Ave | 0.3724 | 0.4939 | | 66.3 | 50.0 | 32.6* | 20.0 |
| 2,4,4-Trimethyl-2-pentene | Lin1 | | 1.000 | | 61.9 | 50.0 | 23.8* | 20.0 |
| 1,4-Dioxane | Ave | 0.0150 | 0.0161 | | 2150 | 2000 | 7.4 | 20.0 |
| 2-Nitropropane | Ave | 0.2659 | 0.2957 | | 278 | 250 | 11.2 | 20.0 |

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4300.D
Lims ID: CCV Client ID:
Inject. Date: 13-Dec-2012 22:42:30 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: CCV
Misc. Info.: 480-0017526-004 =480-0017526-004
Operator: CDC Instrument ID: HP5973F
Purge Vol: 5.000 mL ALS Bottle#: 3
Lims Batch ID: 95715 Lims Sample ID: 4
Sublist: chrom-F-8260 SOIL*sub16
Detector: MS SCAN

Method: \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F-8260 SOIL.m
Last Update: 14-Dec-2012 00:53:57 Calib Date: 11-Dec-2012 23:36:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4239.D
Limit Group: MV - 8260MCP_RCP
Integrator: RTE ID Type: Deconvolution ID
Column Type: ZB-624 Column Dia: 0.25 mm
Process Host: XAWRK014

First Level Reviewer: cwiklinc Date: 14-Dec-2012 00:53:57

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 5.608 | 5.608 | 0.0 | 92 | 345497 | 50.0 | |
| * 2 Chlorobenzene-d5 | 82 | 8.382 | 8.382 | 0.0 | 82 | 151060 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 10.700 | 10.700 | 0.0 | 88 | 170730 | 50.0 | |
| $ 4 1,2-Dichloroethane-d4 (Surr) | 67 | 5.304 | 5.304 | 0.0 | 99 | 55699 | 44.5 | |
| $ 5 Toluene-d8 (Surr) | 98 | 6.928 | 6.928 | 0.0 | 91 | 415373 | 45.6 | |
| $ 6 4-Bromofluorobenzene (Surr) | 174 | 9.599 | 9.599 | 0.0 | 91 | 139331 | 43.3 | |
| 11 Chlorodifluoromethane | 51 | 2.013 | 2.013 | 0.0 | 76 | 153044 | 0 | |
| 16 Dichlorofluoromethane | 67 | 2.810 | 2.810 | 0.0 | 82 | 169610 | 0 | |
| 18 Ethyl ether | 59 | 3.035 | 3.035 | 0.0 | 91 | 122036 | 57.6 | |
| 19 Propene oxide | 58 | 3.132 | 3.132 | 0.0 | 94 | 204241 | 0 | |
| 24 Isopropyl alcohol | 45 | 3.400 | 3.400 | 0.0 | 99 | 323748 | 0 | |
| 28 3-Chloro-1-propene | 41 | 3.540 | 3.540 | 0.0 | 92 | 243549 | 59.8 | |
| 31 2-Methyl-2-propanol | 59 | 3.704 | 3.704 | 0.0 | 98 | 540058 | 1087.6 | |
| 35 Hexane | 57 | 3.978 | 3.978 | 0.0 | 91 | 249518 | 0 | |
| 36 Isopropyl ether | 45 | 4.130 | 4.130 | 0.0 | 95 | 483450 | 56.2 | |
| 134 Halothane | 117 | 4.130 | 4.130 | 0.0 | 0 | 84718 | 58.5 | |
| 38 1,1-Dimethoxyethane | 75 | 4.203 | 4.203 | 0.0 | 94 | 195489 | 0 | |
| 40 2-Chloro-1,3-butadiene | 53 | 4.227 | 4.227 | 0.0 | 87 | 220548 | 0 | |
| 41 Tert-butyl ethyl ether | 59 | 4.416 | 4.416 | 0.0 | 97 | 428216 | 54.0 | |
| 42 Ethyl acetate | 43 | 4.610 | 4.610 | 0.0 | 98 | 177658 | 0 | |
| 46 Propionitrile | 54 | 4.720 | 4.720 | 0.0 | 100 | 287747 | 561.7 | |
| 47 Methacrylonitrile | 41 | 4.817 | 4.817 | 0.0 | 92 | 104863 | 0 | |
| 53 Isobutyl alcohol | 43 | 5.194 | 5.194 | 0.0 | 94 | 510528 | 0 | |
| 56 Tert-amyl methyl ether | 73 | 5.347 | 5.347 | 0.0 | 97 | 386473 | 55.3 | |
| 59 n-Heptane | 43 | 5.420 | 5.420 | 0.0 | 93 | 265274 | 61.9 | |
| 136 2,4,4-Trimethyl-1-pentene | 55 | 5.736 | 5.736 | 0.0 | 0 | 170650 | 66.3 | |
| 60 n-Butanol | 56 | 5.748 | 5.748 | 0.0 | 91 | 423284 | 0 | |
| 135 2,4,4-Trimethyl-2-pentene | 97 | 5.918 | 5.918 | 0.0 | 0 | 345456 | 61.9 | |
| 63 Methyl methacrylate | 41 | 6.083 | 6.083 | 0.0 | 90 | 139763 | 54.5 | |

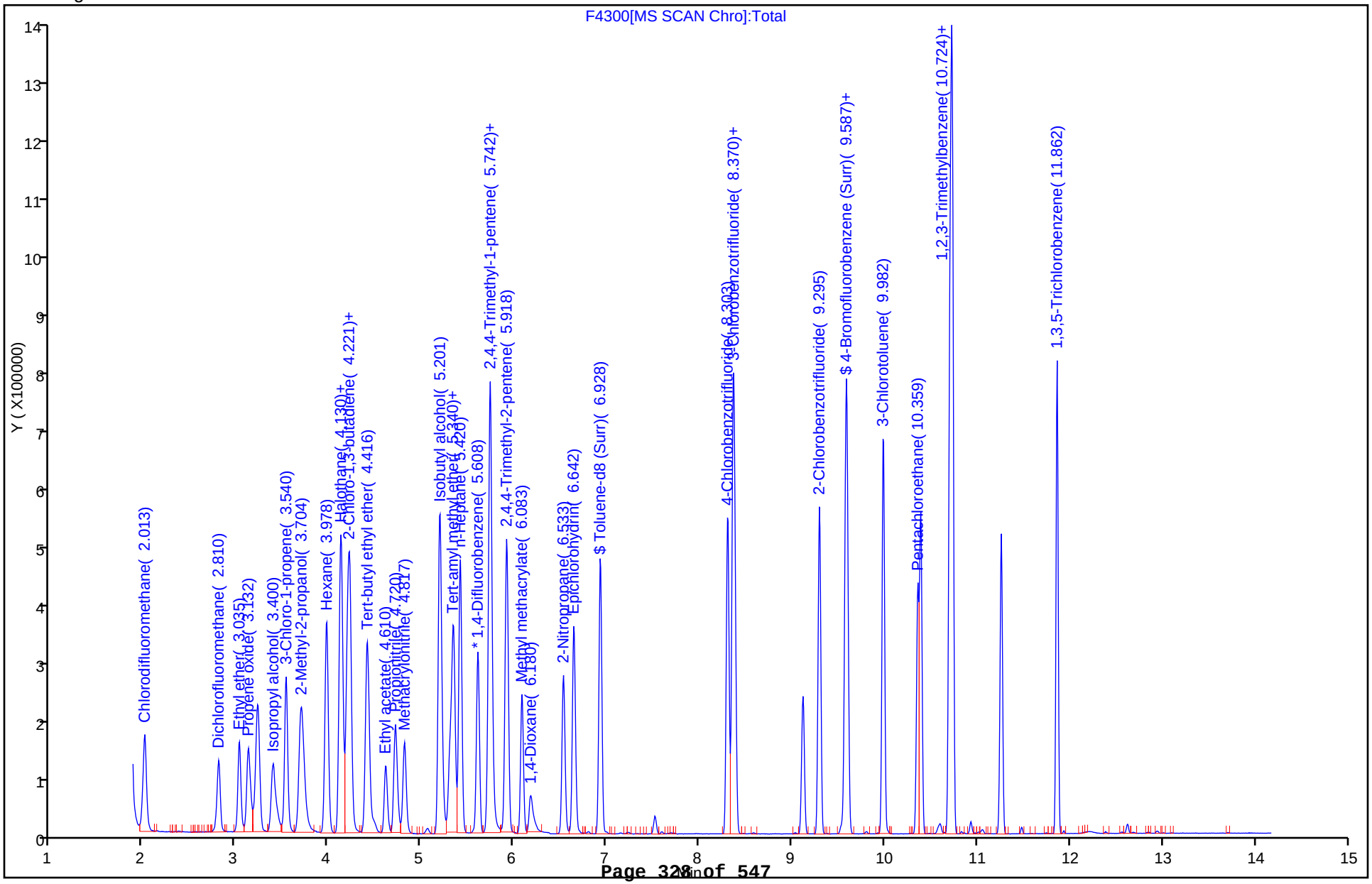
| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 66 1,4-Dioxane | 88 | 6.174 | 6.174 | 0.0 | 91 | 97376 | 2148.4 | |
| 70 2-Nitropropane | 43 | 6.533 | 6.533 | 0.0 | 96 | 252416 | 278.0 | |
| 71 Epichlorohydrin | 57 | 6.642 | 6.642 | 0.0 | 98 | 426903 | 0 | |
| 86 4-Chlorobenzotrifluoride | 180 | 8.309 | 8.309 | 0.0 | 91 | 272634 | 0 | |
| 85 3-Chlorobenzotrifluoride | 180 | 8.364 | 8.364 | 0.0 | 91 | 269871 | 0 | |
| 93 2-Chlorobenzotrifluoride | 180 | 9.295 | 9.295 | 0.0 | 97 | 266947 | 0 | |
| 96 Cyclohexanone | 55 | 9.581 | 9.581 | 0.0 | 91 | 312093 | 0 | |
| 104 3-Chlorotoluene | 126 | 9.988 | 9.988 | 0.0 | 95 | 207265 | 0 | |
| 108 Pentachloroethane | 167 | 10.359 | 10.359 | 0.0 | 87 | 93263 | 0 | |
| 114 Dicyclopentadiene | 66 | 10.718 | 10.718 | 0.0 | 96 | 671633 | 0 | |
| 112 1,2,3-Trimethylbenzene | 105 | 10.731 | 10.731 | 0.0 | 97 | 630210 | 0 | |
| 118 1,3,5-Trichlorobenzene | 180 | 11.862 | 11.862 | 0.0 | 97 | 291094 | 0 | |

Report Date: 14-Dec-2012 00:53:57 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4300.D | | |
| Injection Date: | 13-Dec-2012 22:42:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 4 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25043.D | | |
| Lims ID: | BFB | Client ID: | |
| Inject. Date: | 09-Dec-2012 19:14:30 | Dil. Factor: | 1.0000 |
| Sample Type: | BFB | | |
| Sample ID: | BFB | | |
| Misc. Info.: | 480-0017365-001 | | |
| Operator: | NMD | Instrument ID: | HP5973C |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 21 |
| Lims Batch ID: | 94870 | Lims Sample ID: | 1 |
| Detector: | MS SCAN | | |
| Method: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C-8260.m | | |
| Last Update: | 10-Dec-2012 17:40:23 | Calib Date: | 10-Dec-2012 03:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25063.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK028 | | |

First Level Reviewer: diasn Date: 09-Dec-2012 19:26:22

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| $ 61 BFB | 95 | 9.680 | 9.680 | 0.0 | 0 | 134142 | 0 | |

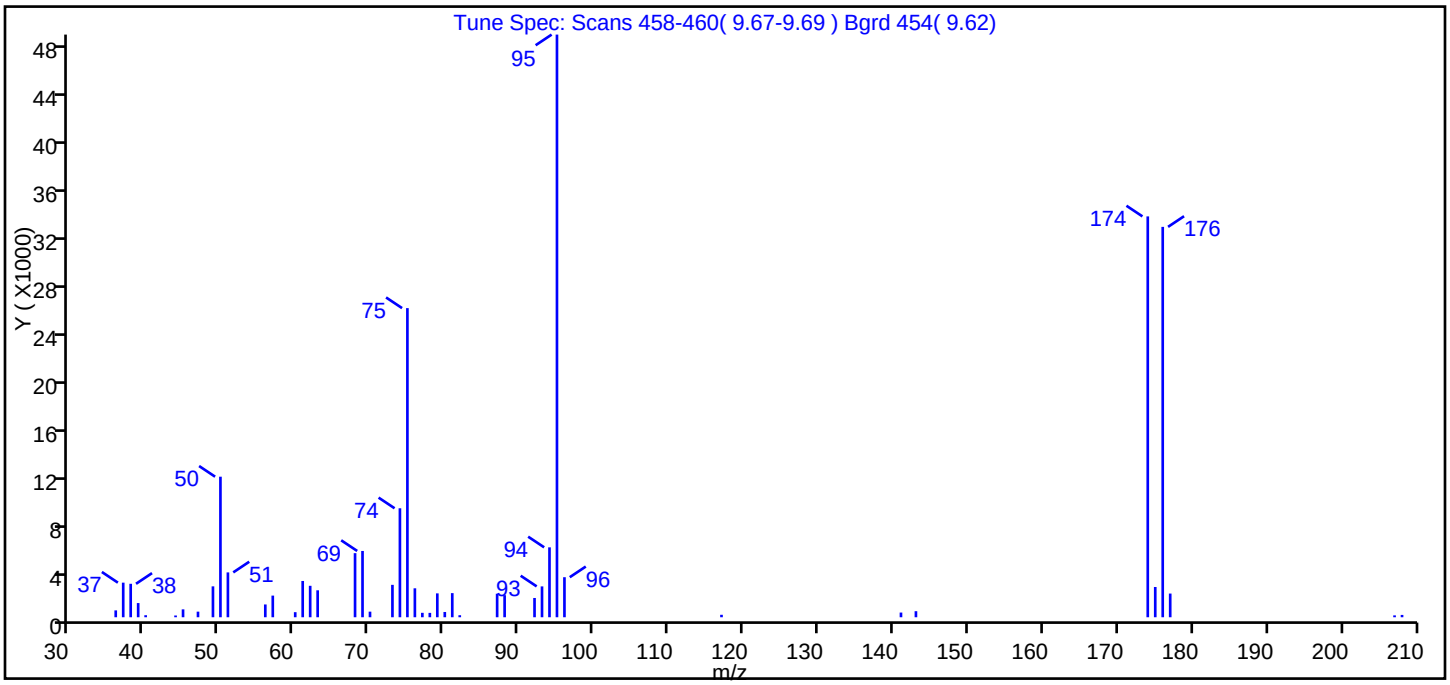
Report Date: 10-Dec-2012 17:40:24 Chrom Revision: 2.0 22-Oct-2012 16:30:48

MS Tune Report

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25043.D | | |
| Injection Date: | 09-Dec-2012 19:14:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973C |
| Lims Batch ID: | 94870 | Lims Sample ID: | 1 |
| Operator ID: | NMD | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Tune Method: | BFB Method 8260 | | |

$ 61 BFB




| m/z | Ion Abundance Criteria | % Relative Abundance |
|---|---|---|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 24.12 |
| 75 | 30.00 - 60.00% of mass 95 | 53.06 |
| 96 | 5.00 - 9.00% of mass 95 | 6.87 |
| 173 | Less than 2.00% of mass 174 | 0.00 ( 0.00) |
| 174 | Greater than 50.00% of mass 95 | 68.80 |
| 175 | 5.00 - 9.00% of mass 174 | 5.19 ( 7.55) |
| 176 | 95.00 - 101.00% of mass 174 | 67.00 ( 97.39) |
| 177 | 5.00 - 9.00% of mass 176 | 4.07 ( 6.07) |

Data File: \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25043.D\C-8260.rslt\spectra.d
Injection Date: 09-Dec-2012 19:14:30
Spectrum: Tune Spec: Scans 458-460( 9.67-9.69 ) Bgrd 454( 9.62)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 46

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 577 | 57.00 | 1819 | 77.00 | 373 | 96.00 | 3364 |
| 37.00 | 2907 | 60.00 | 427 | 78.00 | 368 | 117.00 | 208 |
| 38.00 | 2811 | 61.00 | 3047 | 79.00 | 2006 | 141.00 | 395 |
| 39.00 | 1192 | 62.00 | 2642 | 80.00 | 443 | 143.00 | 509 |
| 40.00 | 171 | 63.00 | 2264 | 81.00 | 2027 | 174.00 | 33672 |
| 44.00 | 148 | 68.00 | 5384 | 82.00 | 171 | 175.00 | 2542 |
| 45.00 | 664 | 69.00 | 5568 | 87.00 | 1977 | 176.00 | 32792 |
| 47.00 | 471 | 70.00 | 471 | 88.00 | 1853 | 177.00 | 1991 |
| 49.00 | 2596 | 73.00 | 2723 | 92.00 | 1619 | 207.00 | 158 |
| 50.00 | 11807 | 74.00 | 9154 | 93.00 | 2592 | 208.00 | 196 |
| 51.00 | 3768 | 75.00 | 25968 | 94.00 | 5873 | | |
| 56.00 | 1075 | 76.00 | 2432 | 95.00 | 48944 | | |

Report Date: 17-Dec-2012 14:23:01 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121217-17619.b\C25367.D | | |
| Lims ID: | BFB | Client ID: | |
| Inject. Date: | 17-Dec-2012 11:11:30 | Dil. Factor: | 1.0000 |
| Sample Type: | BFB | | |
| Sample ID: | BFB | | |
| Misc. Info.: | 480-0017619-001 | | |
| Operator: | LH | Instrument ID: | HP5973C |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 53 |
| Lims Batch ID: | 96178 | Lims Sample ID: | 1 |
| Detector: | MS SCAN | | |
| Method: | \\Bufchrom\ChromData\HP5973C\20121217-17619.b\C-8260.m | | |
| Last Update: | 17-Dec-2012 14:23:00 | Calib Date: | 10-Dec-2012 03:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25063.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK032 | | |
| First Level Reviewer: HillL | | Date: | 17-Dec-2012 11:23:19 |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| $ 61 BFB | 95 | 9.703 | 9.703 | 0.0 | 0 | 129576 | 0 | |

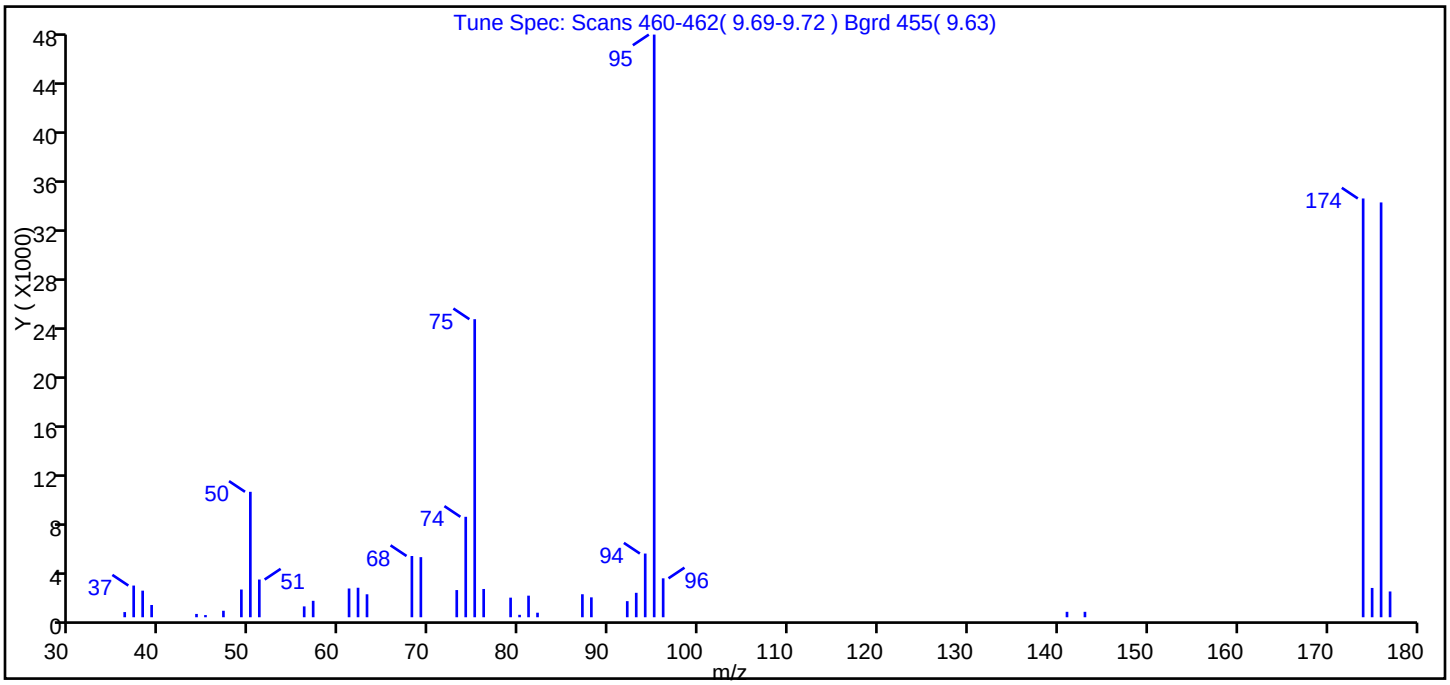
Report Date: 17-Dec-2012 14:23:01 Chrom Revision: 2.0 22-Oct-2012 16:30:48

MS Tune Report

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121217-17619.b\C25367.D | | |
| Injection Date: | 17-Dec-2012 11:11:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973C |
| Lims Batch ID: | 96178 | Lims Sample ID: | 1 |
| Operator ID: | LH | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Tune Method: | BFB Method 8260 | | |

$ 61 BFB




| m/z | Ion Abundance Criteria | % Relative Abundance |
|---|---|---|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 21.53 |
| 75 | 30.00 - 60.00% of mass 95 | 51.16 |
| 96 | 5.00 - 9.00% of mass 95 | 6.68 |
| 173 | Less than 2.00% of mass 174 | 0.00 ( 0.00) |
| 174 | Greater than 50.00% of mass 95 | 71.87 |
| 175 | 5.00 - 9.00% of mass 174 | 5.03 ( 7.00) |
| 176 | 95.00 - 101.00% of mass 174 | 71.19 ( 99.05) |
| 177 | 5.00 - 9.00% of mass 176 | 4.43 ( 6.22) |

Data File: \\Bufchrom\ChromData\HP5973C\20121217-17619.b\C25367.D\C-8260.rslt\spectra.d
Injection Date: 17-Dec-2012 11:11:30
Spectrum: Tune Spec: Scans 460-462( 9.69-9.72 ) Bgrd 455( 9.63)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 38

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 419 | 56.00 | 877 | 76.00 | 2285 | 95.00 | 47072 |
| 37.00 | 2561 | 57.00 | 1329 | 79.00 | 1584 | 96.00 | 3145 |
| 38.00 | 2149 | 61.00 | 2324 | 80.00 | 197 | 141.00 | 440 |
| 39.00 | 991 | 62.00 | 2384 | 81.00 | 1745 | 143.00 | 439 |
| 44.00 | 269 | 63.00 | 1856 | 82.00 | 367 | 174.00 | 33832 |
| 45.00 | 176 | 68.00 | 4948 | 87.00 | 1859 | 175.00 | 2368 |
| 47.00 | 525 | 69.00 | 4855 | 88.00 | 1608 | 176.00 | 33512 |
| 49.00 | 2241 | 73.00 | 2196 | 92.00 | 1301 | 177.00 | 2083 |
| 50.00 | 10135 | 74.00 | 8115 | 93.00 | 1975 | | |
| 51.00 | 3048 | 75.00 | 24080 | 94.00 | 5146 | | |

TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4221.D | | |
| Lims ID: | BFB | Client ID: | |
| Inject. Date: | 11-Dec-2012 15:25:30 | Dil. Factor: | 1.0000 |
| Sample Type: | BFB | | |
| Sample ID: | BFB | | |
| Misc. Info.: | 480-0017433-002 =480-0017433-002 | | |
| Operator: | Jmb | Instrument ID: | HP5973F |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 2 |
| Lims Batch ID: | 95189 | Lims Sample ID: | 2 |
| Detector: | MS SCAN | | |
| Method: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F-8260 SOIL.m | | |
| Last Update: | 11-Dec-2012 15:18:54 | Calib Date: | 03-Dec-2012 15:37:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973F\20121203-17181.b\F3992.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | RT Order ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK010 | | |

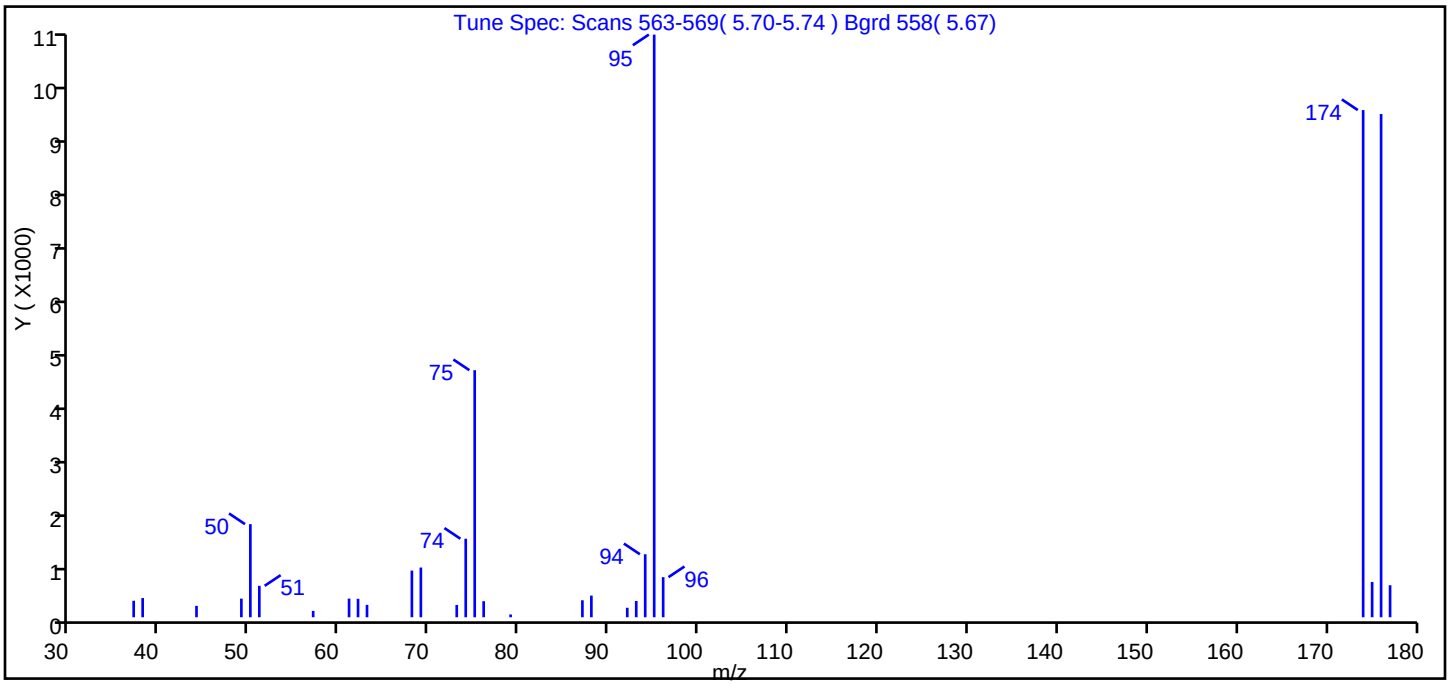
| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | | 5.608 | | | | | |
| * 2 Chlorobenzene-d5 | 82 | | 8.376 | | | | | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | | 10.700 | | | | | |
| $ 61 BFB | 95 | 5.729 | 5.729 | 0.0 | 0 | 32128 | 0 | |

MS Tune Report

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4221.D | | |
| Injection Date: | 11-Dec-2012 15:25:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973F |
| Lims Batch ID: | 95189 | Lims Sample ID: | 2 |
| Operator ID: | Jmb | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Tune Method: | BFB Method 8260 | | |

$ 61 BFB




| m/z | Ion Abundance Criteria | % Relative Abundance |
|---|---|---|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 15.98 |
| 75 | 30.00 - 60.00% of mass 95 | 42.40 |
| 96 | 5.00 - 9.00% of mass 95 | 6.88 |
| 173 | Less than 2.00% of mass 174 | 0.00 ( 0.00) |
| 174 | Greater than 50.00% of mass 95 | 87.04 |
| 175 | 5.00 - 9.00% of mass 174 | 6.05 ( 6.95) |
| 176 | 95.00 - 101.00% of mass 174 | 86.36 ( 99.22) |
| 177 | 5.00 - 9.00% of mass 176 | 5.50 ( 6.36) |

Data File: \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4221.D\F-8260 SOIL.rslt\spectra.d
Injection Date: 11-Dec-2012 15:25:30
Spectrum: Tune Spec: Scans 563-569( 5.70-5.74 ) Bgrd 558( 5.67)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 28

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 37.00 | 304 | 61.00 | 344 | 75.00 | 4553 | 94.00 | 1161 |
| 38.00 | 354 | 62.00 | 340 | 76.00 | 296 | 95.00 | 10737 |
| 44.00 | 210 | 63.00 | 228 | 79.00 | 51 | 96.00 | 739 |
| 49.00 | 343 | 68.00 | 860 | 87.00 | 313 | 174.00 | 9346 |
| 50.00 | 1716 | 69.00 | 916 | 88.00 | 399 | 175.00 | 650 |
| 51.00 | 579 | 73.00 | 226 | 92.00 | 175 | 176.00 | 9273 |
| 57.00 | 117 | 74.00 | 1447 | 93.00 | 300 | 177.00 | 590 |

TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4298.D | | |
| Lims ID: | BFB | Client ID: | |
| Inject. Date: | 13-Dec-2012 21:33:30 | Dil. Factor: | 1.0000 |
| Sample Type: | BFB | | |
| Sample ID: | BFB | | |
| Misc. Info.: | 480-0017526-002 =480-0017526-002 | | |
| Operator: | CDC | Instrument ID: | HP5973F |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 1 |
| Lims Batch ID: | 95715 | Lims Sample ID: | 2 |
| Detector: | MS SCAN | | |
| Method: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F-8260 SOIL.m | | |
| Last Update: | 13-Dec-2012 21:47:30 | Calib Date: | 11-Dec-2012 23:36:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4239.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK014 | | |

First Level Reviewer: cwiklinc Date: 13-Dec-2012 21:47:30

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | | 5.602 | | | | | |
| * 2 Chlorobenzene-d5 | 82 | | 8.376 | | | | | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | | 10.700 | | | | | |
| $ 4 1,2-Dichloroethane-d4 (Surr) | 67 | | 5.304 | | | | | |
| $ 61 BFB | 95 | 5.722 | 5.722 | 0.0 | 0 | 50659 | 0 | |
| $ 5 Toluene-d8 (Surr) | 98 | | 6.928 | | | | | |
| $ 6 4-Bromofluorobenzene (Surr) | 174 | | 9.599 | | | | | |

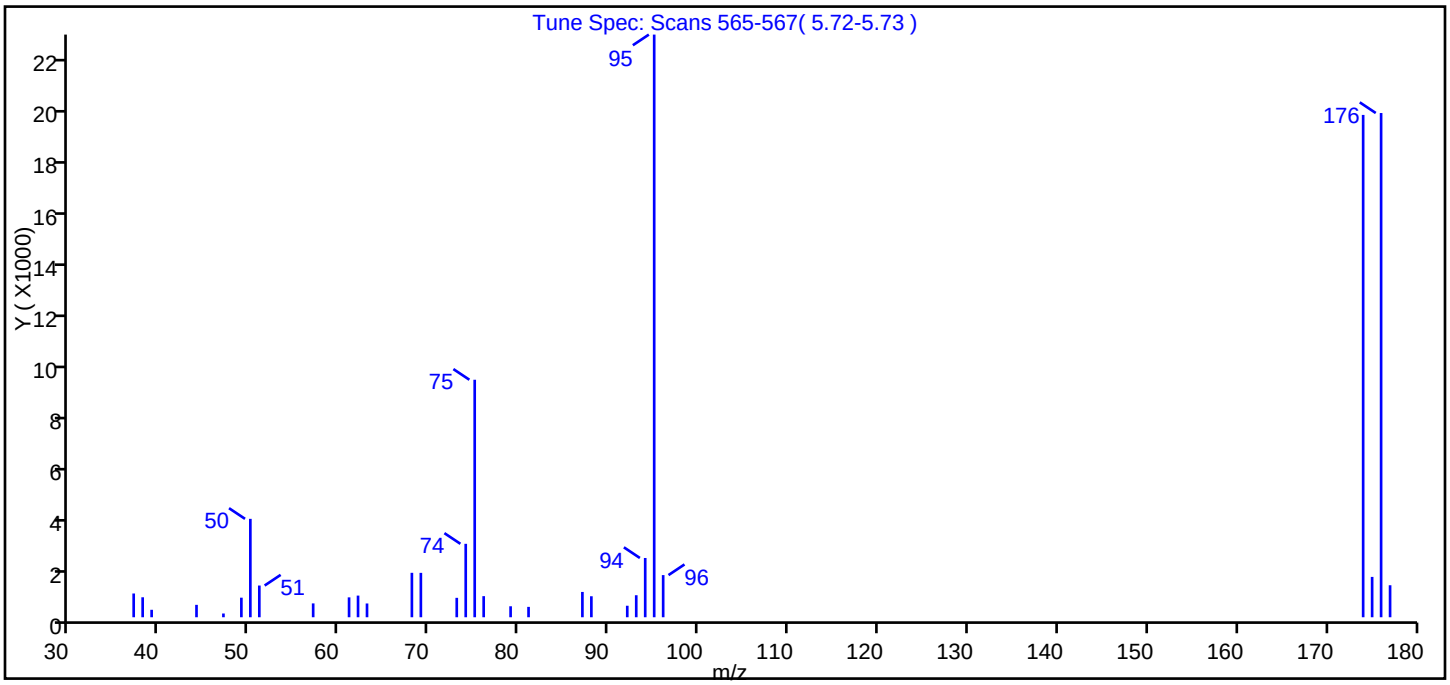
Report Date: 13-Dec-2012 21:47:30 Chrom Revision: 2.0 22-Oct-2012 16:30:48

MS Tune Report

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4298.D | | |
| Injection Date: | 13-Dec-2012 21:33:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 2 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Tune Method: | BFB Method 8260 | | |

$ 61 BFB




| m/z | Ion Abundance Criteria | % Relative Abundance |
|---|---|---|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 16.89 |
| 75 | 30.00 - 60.00% of mass 95 | 40.76 |
| 96 | 5.00 - 9.00% of mass 95 | 7.24 |
| 173 | Less than 2.00% of mass 174 | 0.00 ( 0.00) |
| 174 | Greater than 50.00% of mass 95 | 86.21 |
| 175 | 5.00 - 9.00% of mass 174 | 6.92 ( 8.03) |
| 176 | 95.00 - 101.00% of mass 174 | 86.54 (100.38) |
| 177 | 5.00 - 9.00% of mass 176 | 5.49 ( 6.35) |

Data File: \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4298.D\F-8260 SOIL.rslt\spectra.d
Injection Date: 13-Dec-2012 21:33:30
Spectrum: Tune Spec: Scans 565-567( 5.72-5.73 )
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 31

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 37.00 | 904 | 57.00 | 527 | 75.00 | 9036 | 94.00 | 2255 |
| 38.00 | 760 | 61.00 | 757 | 76.00 | 803 | 95.00 | 22168 |
| 39.00 | 284 | 62.00 | 824 | 79.00 | 418 | 96.00 | 1604 |
| 44.00 | 472 | 63.00 | 524 | 81.00 | 395 | 174.00 | 19112 |
| 47.00 | 143 | 68.00 | 1691 | 87.00 | 963 | 175.00 | 1535 |
| 49.00 | 745 | 69.00 | 1689 | 88.00 | 799 | 176.00 | 19184 |
| 50.00 | 3744 | 73.00 | 739 | 92.00 | 438 | 177.00 | 1218 |
| 51.00 | 1207 | 74.00 | 2794 | 93.00 | 838 | | |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-29976-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 480-95715/8
Matrix: Solid
Lab File ID: F4304.D
Analysis Method: 8260C
Date Collected:
Sample wt/vol: 5(g)
Date Analyzed: 12/14/2012 00:25
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 95715
Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 107-39-1 | 2,4,4-Trimethyl-1-pentene | ND | | 5.0 | 0.43 |
| 107-40-4 | 2,4,4-Trimethyl-2-pentene | ND | | 5.0 | 0.53 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 2037-26-5 | Toluene-d8 (Surr) | 93 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 86 | | 70-130 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 87 | | 70-130 |

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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 480-95715/8

Matrix: Solid Lab File ID: F4304.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 12/14/2012 00:25

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 95715 Units: ug/Kg

Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| | Tentatively Identified Compound | | None | |

FORM I-TIC 8260C

TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4304.D | | |
| Lims ID: | MB | Client ID: | |
| Inject. Date: | 14-Dec-2012 00:25:30 | Dil. Factor: | 1.0000 |
| Sample Type: | MB | | |
| Sample ID: | MB | | |
| Misc. Info.: | 480-0017526-008 =480-0017526-008 | | |
| Operator: | CDC | Instrument ID: | HP5973F |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 7 |
| Lims Batch ID: | 95715 | Lims Sample ID: | 8 |
| Detector: | MS SCAN | | |
| Method: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F-8260 SOIL.m | | |
| Last Update: | 14-Dec-2012 00:57:09 | Calib Date: | 11-Dec-2012 23:36:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4239.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK014 | | |

First Level Reviewer: cwiklinc Date: 14-Dec-2012 00:57:09

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 5.608 | 5.608 | 0.0 | 93 | 334131 | 50.0 | |
| * 2 Chlorobenzene-d5 | 82 | 8.382 | 8.382 | 0.0 | 79 | 144606 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 10.700 | 10.700 | 0.0 | 92 | 159530 | 50.0 | |
| $ 4 1,2-Dichloroethane-d4 (Surr) | 67 | 5.304 | 5.304 | 0.0 | 99 | 52232 | 43.1 | |
| $ 5 Toluene-d8 (Surr) | 98 | 6.928 | 6.928 | 0.0 | 82 | 406702 | 46.6 | |
| $ 6 4-Bromofluorobenzene (Surr) | 174 | 9.599 | 9.599 | 0.0 | 93 | 134630 | 43.7 | |
| 10 Dichlorodifluoromethane | 85 | | 1.995 | | | | | |
| 11 Chlorodifluoromethane | 51 | | 2.013 | | | | | |
| 12 Chloromethane | 50 | | 2.147 | | | | | |
| 13 Vinyl chloride | 62 | | 2.268 | | | | | |
| 14 Bromomethane | 94 | | 2.548 | | | | | |
| 15 Chloroethane | 64 | | 2.621 | | | | | |
| 16 Dichlorofluoromethane | 67 | | 2.810 | | | | | |
| 17 Trichlorofluoromethane | 101 | | 2.846 | | | | | |
| 18 Ethyl ether | 59 | | 3.035 | | | | | |
| 19 Propene oxide | 58 | | 3.132 | | | | | |
| 20 Acrolein | 56 | | 3.187 | | | | | |
| 21 1,1,2-Trichloro-1,2,2-trifluoroe | 101 | | 3.224 | | | | | |
| 22 1,1-Dichloroethene | 96 | | 3.254 | | | | | |
| 23 Acetone | 43 | | 3.303 | | | | | |
| 24 Isopropyl alcohol | 45 | | 3.400 | | | | | |
| 25 Iodomethane | 142 | | 3.418 | | | | | |
| 26 Carbon disulfide | 76 | | 3.467 | | | | | |
| 27 Methyl acetate | 43 | | 3.528 | | | | | |
| 28 3-Chloro-1-propene | 41 | | 3.540 | | | | | 9 |
| 29 Acetonitrile | 40 | | 3.558 | | | | | 9 |
| 30 Methylene Chloride | 84 | | 3.643 | | | | | |
| 31 2-Methyl-2-propanol | 59 | | 3.704 | | | | | |
| 32 Methyl tert-butyl ether | 73 | | 3.801 | | | | | |
| 34 trans-1,2-Dichloroethene | 96 | | 3.832 | | | | | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 33 Acrylonitrile | 53 | | 3.850 | | | | | |
| 35 Hexane | 57 | | 3.978 | | | | | |
| 36 Isopropyl ether | 45 | | 4.130 | | | | | |
| 134 Halothane | 117 | | 4.130 | | | | | |
| 37 Vinyl acetate | 43 | | 4.154 | | | | | |
| 39 1,1-Dichloroethane | 63 | | 4.173 | | | | | |
| 38 1,1-Dimethoxyethane | 75 | | 4.203 | | | | | |
| 40 2-Chloro-1,3-butadiene | 53 | | 4.227 | | | | | |
| 41 Tert-butyl ethyl ether | 59 | | 4.416 | | | | | |
| 42 Ethyl acetate | 43 | | 4.610 | | | | | |
| 43 2-Butanone (MEK) | 43 | | 4.617 | | | | | |
| 44 2,2-Dichloropropane | 77 | | 4.623 | | | | | |
| 45 cis-1,2-Dichloroethene | 96 | | 4.629 | | | | | |
| 46 Propionitrile | 54 | | 4.720 | | | | | |
| 47 Methacrylonitrile | 41 | | 4.817 | | | | | |
| 48 Chlorobromomethane | 128 | | 4.842 | | | | | |
| 49 Tetrahydrofuran | 42 | | 4.854 | | | | | |
| 50 Chloroform | 83 | | 4.872 | | | | | |
| 51 1,1,1-Trichloroethane | 97 | | 5.018 | | | | | |
| 52 Cyclohexane | 56 | | 5.049 | | | | | |
| 54 1,1-Dichloropropene | 75 | | 5.140 | | | | | |
| 55 Carbon tetrachloride | 117 | | 5.146 | | | | | |
| 53 Isobutyl alcohol | 43 | | 5.194 | | | | | |
| 57 Benzene | 78 | | 5.328 | | | | | |
| 56 Tert-amyl methyl ether | 73 | | 5.347 | | | | | |
| 58 1,2-Dichloroethane | 62 | | 5.365 | | | | | |
| 59 n-Heptane | 43 | | 5.420 | | | | | |
| 136 2,4,4-Trimethyl-1-pentene | 55 | | 5.736 | | | | | |
| 60 n-Butanol | 56 | | 5.748 | | | | | |
| 62 Trichloroethene | 95 | | 5.852 | | | | | |
| 135 2,4,4-Trimethyl-2-pentene | 97 | | 5.918 | | | | | |
| 64 Methylcyclohexane | 83 | | 5.985 | | | | | |
| 65 1,2-Dichloropropane | 63 | | 6.077 | | | | | |
| 63 Methyl methacrylate | 41 | | 6.083 | | | | | |
| 66 1,4-Dioxane | 88 | | 6.174 | | | | | |
| 67 Dibromomethane | 93 | | 6.211 | | | | | |
| 68 Dichlorobromomethane | 83 | | 6.320 | | | | | |
| 69 2-Chloroethyl vinyl ether | 63 | | 6.521 | | | | | |
| 70 2-Nitropropane | 43 | | 6.533 | | | | | |
| 71 Epichlorohydrin | 57 | | 6.642 | | | | | |
| 72 cis-1,3-Dichloropropene | 75 | | 6.697 | | | | | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | | 6.801 | | | | | 9 |
| 74 Toluene | 92 | | 6.995 | | | | | |
| 75 Ethyl methacrylate | 69 | | 7.208 | | | | | |
| 77 trans-1,3-Dichloropropene | 75 | | 7.214 | | | | | |
| 79 1,1,2-Trichloroethane | 83 | | 7.415 | | | | | |
| 81 Tetrachloroethene | 166 | | 7.519 | | | | | |
| 82 1,3-Dichloropropane | 76 | | 7.585 | | | | | |
| 80 2-Hexanone | 43 | | 7.592 | | | | | 9 |
| 83 Chlorodibromomethane | 129 | | 7.829 | | | | | |
| 84 Ethylene Dibromide | 107 | | 7.957 | | | | | |
| 86 4-Chlorobenzotrifluoride | 180 | | 8.309 | | | | | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 85 3-Chlorobenzotrifluoride | 180 | | 8.364 | | | | | |
| 87 Chlorobenzene | 112 | | 8.413 | | | | | |
| 88 Ethylbenzene | 91 | | 8.474 | | | | | |
| 89 1,1,1,2-Tetrachloroethane | 131 | | 8.492 | | | | | |
| 90 m-Xylene & p-Xylene | 106 | | 8.589 | | | | | |
| 91 o-Xylene | 106 | | 9.021 | | | | | |
| 92 Styrene | 104 | | 9.046 | | | | | |
| 93 2-Chlorobenzotrifluoride | 180 | | 9.295 | | | | | |
| 95 Bromoform | 173 | | 9.319 | | | | | |
| 94 Isopropylbenzene | 105 | | 9.386 | | | | | |
| 96 Cyclohexanone | 55 | | 9.581 | | | | | 9 |
| 97 1,1,2,2-Tetrachloroethane | 83 | | 9.757 | | | | | |
| 101 Bromobenzene | 156 | | 9.769 | | | | | |
| 99 N-Propylbenzene | 91 | | 9.800 | | | | | 9 |
| 98 trans-1,4-Dichloro-2-butene | 53 | | 9.800 | | | | | |
| 100 1,2,3-Trichloropropane | 110 | | 9.812 | | | | | |
| 103 2-Chlorotoluene | 126 | | 9.928 | | | | | |
| 102 1,3,5-Trimethylbenzene | 105 | | 9.964 | | | | | |
| 104 3-Chlorotoluene | 126 | | 9.988 | | | | | |
| 105 4-Chlorotoluene | 126 | | 10.031 | | | | | |
| 106 tert-Butylbenzene | 134 | | 10.281 | | | | | |
| 107 1,2,4-Trimethylbenzene | 105 | | 10.329 | | | | | |
| 108 Pentachloroethane | 167 | | 10.359 | | | | | |
| 109 sec-Butylbenzene | 105 | | 10.481 | | | | | 9 |
| 110 4-Isopropyltoluene | 119 | | 10.603 | | | | | |
| 111 1,3-Dichlorobenzene | 146 | | 10.639 | | | | | 9 |
| 114 Dicyclopentadiene | 66 | | 10.718 | | | | | 9 |
| 113 1,4-Dichlorobenzene | 146 | | 10.725 | | | | | 9 |
| 112 1,2,3-Trimethylbenzene | 105 | | 10.731 | | | | | 9 |
| 76 2-Methylthiophene | 97 | | 10.900 | | | | | |
| 115 n-Butylbenzene | 91 | | 10.974 | | | | | 9 |
| 78 3-Methylthiophene | 97 | | 11.028 | | | | | |
| 116 1,2-Dichlorobenzene | 146 | | 11.065 | | | | | 9 |
| 117 1,2-Dibromo-3-Chloropropane | 75 | | 11.741 | | | | | |
| 118 1,3,5-Trichlorobenzene | 180 | | 11.862 | | | | | 9 |
| 119 1,2,4-Trichlorobenzene | 180 | | 12.385 | | | | | 9 |
| 120 Hexachlorobutadiene | 225 | | 12.483 | | | | | |
| 121 Naphthalene | 128 | | 12.623 | | | | | 9 |
| 122 1,2,3-Trichlorobenzene | 180 | | 12.842 | | | | | 9 |
| S 123 Total BTEX | 1 | | 30.000 | | | | | 7 |
| S 124 Xylenes, Total | 1 | | 30.000 | | | | | 7 |
| S 125 1,2-Dichloroethene, Total | 1 | | 30.000 | | | | | 7 |
| S 126 1,3-Dichloropropene, Total | 1 | | 30.000 | | | | | 7 |
| T 7 Ethylene oxide | 1 | | 0.000 | | | | | 1 |
| T 8 t-Amyl alcohol | 59 | | 0.000 | | | | | 1 |
| T 9 bis(2-chloromethyl)ether TIC | 1 | | 0.000 | | | | | 1 |
| T 127 Ethanol TIC | 45 | | 0.000 | | | | | 1 |
| T 128 Hexachloroethane TIC | 1 | | 0.000 | | | | | 1 |
| T 129 tert-amyl alcohol TIC | 59 | | 0.000 | | | | | 1 |
| T 130 Hexachloroethane | 117 | | 0.000 | | | | | 1 |
| T 131 Nitrobenzene | 77 | | 0.000 | | | | | 1 |
| T 132 Methyl acrylate | 1 | | 0.000 | | | | | 1 |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| T 133 cis-1,4-Dichloro-2-butene | 88 | | 0.000 | | | | | 1 |
| T 137 Ethyl acrylate | 1 | | 0.000 | | | | | 1 |
| T 138 Aziridine TIC | 1 | | 0.000 | | | | | 1 |
| T 139 Bromoethane TIC | 1 | | 0.000 | | | | | 1 |
| T 140 bis(chloromethyl)ether TIC | 1 | | 0.000 | | | | | 1 |
| T 141 Pentachloroethane TIC | 1 | | 0.000 | | | | | 1 |
| T 142 1-Bromopropane | 1 | | 0.000 | | | | | 1 |

QC Flag Legend

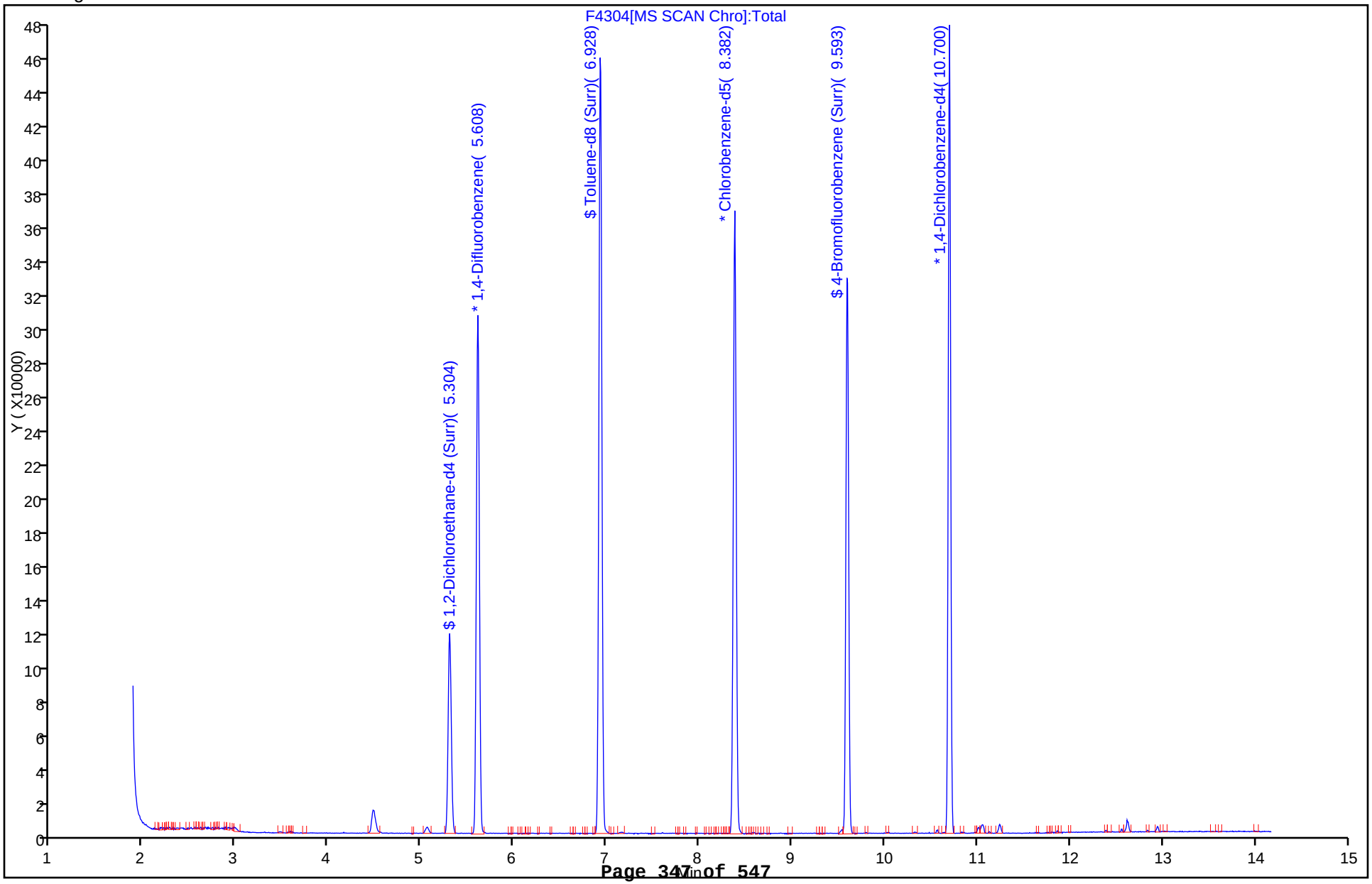
Processing Flags
1 - Missing Peaks
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

Report Date: 14-Dec-2012 00:57:09 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4304.D | | |
| Injection Date: | 14-Dec-2012 00:25:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 8 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-29976-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 480-96180/2-A
Matrix: Solid
Lab File ID: C25373.D
Analysis Method: 8260C
Date Collected:
Sample wt/vol: 5.16(g)
Date Analyzed: 12/17/2012 14:31
Soil Aliquot Vol: 100 (uL)
Dilution Factor: 1
Soil Extract Vol.: 10(mL)
GC Column: ZB-624 (30) ID: 0.53(mm)
% Moisture:
Level: (low/med) Medium
Analysis Batch No.: 96178
Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 107-39-1 | 2,4,4-Trimethyl-1-pentene | ND | | 480 | 42 |
| 107-40-4 | 2,4,4-Trimethyl-2-pentene | ND | | 480 | 51 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 2037-26-5 | Toluene-d8 (Surr) | 86 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 86 | | 70-130 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 81 | | 70-130 |

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

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 480-96180/2-A

Matrix: Solid Lab File ID: C25373.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5.16(g) Date Analyzed: 12/17/2012 14:31

Soil Aliquot Vol: 100 (uL) Dilution Factor: 1

Soil Extract Vol.: 10(mL) GC Column: ZB-624 (30) ID: 0.53(mm)

% Moisture: Level: (low/med) Medium

Analysis Batch No.: 96178 Units: ug/Kg

Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME | RT | RESULT | Q |
|---|---|---|---|---|
| | Tentatively Identified Compound | | None | |

FORM I-TIC 8260C

TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121217-17619.b\C25373.D | | |
| Lims ID: | MB 480-96180/2-A | Client ID: | |
| Inject. Date: | 17-Dec-2012 14:31:30 | Dil. Factor: | 1.0000 |
| Sample Type: | MB | | |
| Sample ID: | MB 480-96180/2-A | | |
| Misc. Info.: | 480-0017619-005 | | |
| Operator: | LH | Instrument ID: | HP5973C |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 59 |
| Lims Batch ID: | 96178 | Lims Sample ID: | 5 |
| Detector: | MS SCAN | | |

| | | | |
|---|---|---|---|
| Method: | \\Bufchrom\ChromData\HP5973C\20121217-17619.b\C-8260.m | | |
| Last Update: | 17-Dec-2012 14:48:33 | Calib Date: | 10-Dec-2012 03:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25063.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK032 | | |

First Level Reviewer: HillL Date: 17-Dec-2012 14:48:33

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 9.588 | 9.588 | 0.0 | 96 | 619463 | 25.0 | |
| * 2 Chlorobenzene-d5 | 82 | 11.959 | 11.971 | -0.012 | 93 | 342519 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.011 | 14.011 | 0.0 | 97 | 300961 | 25.0 | |
| $ 4 1,2-Dichloroethane-d4 (Surr) | 67 | 9.339 | 9.339 | 0.0 | 0 | 124364 | 21.6 | |
| $ 5 Toluene-d8 (Surr) | 98 | 10.785 | 10.785 | 0.0 | 94 | 650745 | 21.4 | |
| $ 6 4-Bromofluorobenzene (Surr) | 174 | 12.920 | 12.920 | 0.0 | 83 | 193971 | 20.2 | |
| 138 Methyl acrylate | 1 | | 0.000 | | | | | |
| 139 cis-1,4-Dichloro-2-butene | 88 | | 0.000 | | | | | |
| 142 Ethyl acrylate | 1 | | 0.000 | | | | | |
| 136 Hexachloroethane | 117 | | 0.000 | | | | | |
| 137 Nitrobenzene | 77 | | 0.000 | | | | | |
| 10 Dichlorodifluoromethane | 85 | | 4.607 | | | | | |
| 11 Chlorodifluoromethane | 51 | | 4.643 | | | | | |
| 12 Chloromethane | 50 | | 5.034 | | | | | |
| 13 Vinyl chloride | 62 | | 5.235 | | | | | |
| 14 Bromomethane | 94 | | 5.876 | | | | | |
| 15 Chloroethane | 64 | | 6.006 | | | | | |
| 16 Dichlorofluoromethane | 67 | | 6.279 | | | | | |
| 17 Trichlorofluoromethane | 101 | | 6.338 | | | | | |
| 18 Ethyl ether | 59 | | 6.659 | | | | | |
| 19 Propene oxide | 58 | | 6.801 | | | | | |
| 20 Acrolein | 56 | | 6.907 | | | | | |
| 21 1,1,2-Trichloro-1,2,2-trifluoroe | 101 | | 6.919 | | | | | |
| 22 1,1-Dichloroethene | 96 | | 6.990 | | | | | |
| 23 Acetone | 43 | | 7.062 | | | | | |
| 24 Isopropyl alcohol | 45 | | 7.145 | | | | | |
| 25 Iodomethane | 142 | | 7.239 | | | | | |
| 26 Carbon disulfide | 76 | | 7.322 | | | | | |
| 27 Methyl acetate | 43 | | 7.346 | | | | | |
| 28 3-Chloro-1-propene | 41 | | 7.370 | | | | | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| 29 Acetonitrile | 40 | | 7.405 | | | | | 9 |
| 30 Methylene Chloride | 84 | | 7.524 | | | | | |
| 31 2-Methyl-2-propanol | 59 | | 7.536 | | | | | |
| 32 Methyl tert-butyl ether | 73 | | 7.690 | | | | | |
| 34 trans-1,2-Dichloroethene | 96 | | 7.761 | | | | | |
| 33 Acrylonitrile | 53 | | 7.773 | | | | | |
| 35 Hexane | 57 | | 7.892 | | | | | 9 |
| 135 Halothane | 117 | | 8.046 | | | | | |
| 36 Isopropyl ether | 45 | | 8.058 | | | | | |
| 37 Vinyl acetate | 43 | | 8.093 | | | | | |
| 39 1,1-Dichloroethane | 63 | | 8.153 | | | | | |
| 38 1,1-Dimethoxyethane | 75 | | 8.153 | | | | | |
| 40 2-Chloro-1,3-butadiene | 53 | | 8.212 | | | | | |
| 41 Tert-butyl ethyl ether | 59 | | 8.366 | | | | | |
| 42 Ethyl acetate | 43 | | 8.580 | | | | | |
| 43 2-Butanone (MEK) | 43 | | 8.615 | | | | | |
| 44 2,2-Dichloropropane | 77 | | 8.651 | | | | | |
| 45 cis-1,2-Dichloroethene | 96 | | 8.651 | | | | | |
| 46 Propionitrile | 54 | | 8.722 | | | | | |
| 47 Methacrylonitrile | 41 | | 8.829 | | | | | |
| 48 Chlorobromomethane | 128 | | 8.888 | | | | | |
| 49 Tetrahydrofuran | 42 | | 8.888 | | | | | |
| 50 Chloroform | 83 | | 8.888 | | | | | |
| 51 1,1,1-Trichloroethane | 97 | | 9.066 | | | | | |
| 52 Cyclohexane | 56 | | 9.101 | | | | | |
| 53 Isobutyl alcohol | 43 | | 9.137 | | | | | |
| 54 1,1-Dichloropropene | 75 | | 9.172 | | | | | |
| 55 Carbon tetrachloride | 117 | | 9.196 | | | | | |
| 56 Tert-amyl methyl ether | 73 | | 9.327 | | | | | |
| 57 Benzene | 78 | | 9.374 | | | | | 9 |
| 59 n-Heptane | 43 | | 9.374 | | | | | |
| 58 1,2-Dichloroethane | 62 | | 9.398 | | | | | |
| 60 n-Butanol | 56 | | 9.647 | | | | | 9 |
| 141 2,4,4-Trimethyl-1-pentene | 55 | | 9.694 | | | | | |
| 140 2,4,4-Trimethyl-2-pentene | 97 | | 9.837 | | | | | |
| 62 Trichloroethene | 95 | | 9.848 | | | | | |
| 64 Methylcyclohexane | 83 | | 9.979 | | | | | |
| 63 Methyl methacrylate | 41 | | 9.979 | | | | | |
| 65 1,2-Dichloropropane | 63 | | 10.050 | | | | | |
| 66 1,4-Dioxane | 88 | | 10.121 | | | | | |
| 67 Dibromomethane | 93 | | 10.192 | | | | | |
| 68 Dichlorobromomethane | 83 | | 10.252 | | | | | |
| 69 2-Chloroethyl vinyl ether | 63 | | 10.370 | | | | | |
| 70 2-Nitropropane | 43 | | 10.418 | | | | | |
| 71 Epichlorohydrin | 57 | | 10.513 | | | | | |
| 77 trans-1,3-Dichloropropene | 75 | | 10.572 | | | | | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | | 10.607 | | | | | 9 |
| 74 Toluene | 92 | | 10.833 | | | | | 9 |
| 75 Ethyl methacrylate | 69 | | 10.904 | | | | | |
| 76 2-Methylthiophene | 97 | | 10.963 | | | | | 9 |
| 72 cis-1,3-Dichloropropene | 75 | | 10.987 | | | | | |
| 78 3-Methylthiophene | 97 | | 11.093 | | | | | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| 79 1,1,2-Trichloroethane | 83 | | 11.165 | | | | | |
| 80 2-Hexanone | 43 | | 11.248 | | | | | |
| 81 Tetrachloroethene | 166 | | 11.283 | | | | | |
| 82 1,3-Dichloropropane | 76 | | 11.307 | | | | | |
| 83 Chlorodibromomethane | 129 | | 11.532 | | | | | |
| 84 Ethylene Dibromide | 107 | | 11.663 | | | | | |
| 85 3-Chlorobenzotrifluoride | 180 | | 11.805 | | | | | |
| 86 4-Chlorobenzotrifluoride | 180 | | 11.841 | | | | | |
| 88 Ethylbenzene | 91 | | 11.995 | | | | | 9 |
| 87 Chlorobenzene | 112 | | 11.995 | | | | | |
| 89 1,1,1,2-Tetrachloroethane | 131 | | 12.030 | | | | | |
| 90 m-Xylene & p-Xylene | 106 | | 12.078 | | | | | 9 |
| 91 o-Xylene | 106 | | 12.433 | | | | | |
| 92 Styrene | 104 | | 12.445 | | | | | |
| 93 2-Chlorobenzotrifluoride | 180 | | 12.600 | | | | | |
| 94 Isopropylbenzene | 105 | | 12.694 | | | | | |
| 95 Bromoform | 173 | | 12.730 | | | | | |
| 96 Cyclohexanone | 55 | | 12.932 | | | | | |
| 97 1,1,2,2-Tetrachloroethane | 83 | | 13.003 | | | | | |
| 98 trans-1,4-Dichloro-2-butene | 53 | | 13.026 | | | | | |
| 99 N-Propylbenzene | 91 | | 13.050 | | | | | 9 |
| 100 1,2,3-Trichloropropane | 110 | | 13.086 | | | | | |
| 101 Bromobenzene | 156 | | 13.121 | | | | | |
| 102 1,3,5-Trimethylbenzene | 105 | | 13.169 | | | | | 9 |
| 103 2-Chlorotoluene | 126 | | 13.228 | | | | | |
| 104 3-Chlorotoluene | 126 | | 13.276 | | | | | |
| 105 4-Chlorotoluene | 126 | | 13.323 | | | | | |
| 106 tert-Butylbenzene | 134 | | 13.513 | | | | | |
| 107 1,2,4-Trimethylbenzene | 105 | | 13.548 | | | | | 9 |
| 108 Pentachloroethane | 167 | | 13.643 | | | | | |
| 109 sec-Butylbenzene | 105 | | 13.702 | | | | | 9 |
| 110 4-Isopropyltoluene | 119 | | 13.809 | | | | | 9 |
| 111 1,3-Dichlorobenzene | 146 | | 13.951 | | | | | |
| 112 1,2,3-Trimethylbenzene | 105 | | 13.999 | | | | | 9 |
| 113 1,4-Dichlorobenzene | 146 | | 14.034 | | | | | |
| 114 Dicyclopentadiene | 66 | 14.011 | 14.058 | -0.047 | 15 | 7997 | 0 | |
| 115 n-Butylbenzene | 91 | | 14.224 | | | | | 9 |
| 116 1,2-Dichlorobenzene | 146 | | 14.461 | | | | | |
| 117 1,2-Dibromo-3-Chloropropane | 75 | | 15.374 | | | | | |
| 118 1,3,5-Trichlorobenzene | 180 | | 15.541 | | | | | |
| 119 1,2,4-Trichlorobenzene | 180 | | 16.430 | | | | | |
| 120 Hexachlorobutadiene | 225 | | 16.537 | | | | | |
| 121 Naphthalene | 128 | | 16.880 | | | | | |
| 122 1,2,3-Trichlorobenzene | 180 | | 17.272 | | | | | |
| S 125 1,2-Dichloroethene, Total | 1 | | 30.000 | | | | | 7 |
| S 126 1,3-Dichloropropene, Total | 1 | | 30.000 | | | | | 7 |
| S 123 Total BTEX | 1 | | 30.000 | | | | | 7 |
| S 124 Xylenes, Total | 1 | | 30.000 | | | | | 7 |
| T 131 Bromoethane TIC | 1 | | 0.000 | | | | | 1 |
| T 130 bis(chloromethyl)ether TIC | 1 | | 0.000 | | | | | 1 |
| T 132 Pentachloroethane TIC | 1 | | 0.000 | | | | | 1 |
| T 134 tert-amyl alcohol TIC | 1 | | 0.000 | | | | | 1 |

Report Date: 17-Dec-2012 14:48:34 Chrom Revision: 2.0 22-Oct-2012 16:30:48
Data File: \\Bufchrom\ChromData\HP5973C\20121217-17619.b\C25373.D

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| T 133 1-Bromopropane | 1 | | 0.000 | | | | | 1 |
| T 129 Aziridine TIC | 1 | | 0.000 | | | | | 1 |
| T 128 Hexachloroethane TIC | 117 | | 0.000 | | | | | 1 |
| T 127 Ethanol TIC | 45 | | 0.000 | | | | | 1 |
| T 9 bis(2-chloromethyl)ether TIC | 1 | | 0.000 | | | | | 1 |
| T 7 Ethylene oxide | 1 | | 0.000 | | | | | 1 |
| T 8 t-Amyl alcohol | 59 | | 0.000 | | | | | 1 |

QC Flag Legend

Processing Flags
1 - Missing Peaks
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

TestAmerica Buffalo
Tentatively Identified Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121217-17619.b\C25373.D | | |
| Lims ID: | MB 480-96180/2-A | Client ID: | |
| Inject. Date: | 17-Dec-2012 14:31:30 | Dil. Factor: | 1.0000 |
| Sample Type: | MB | | |
| Sample ID: | MB 480-96180/2-A | | |
| Misc. Info.: | 480-0017619-005 | | |
| Operator: | LH | Instrument ID: | HP5973C |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 59 |
| Lims Batch ID: | 96178 | Lims Sample ID: | 5 |
| Detector: | MS SCAN | | |
| Method: | \\Bufchrom\ChromData\HP5973C\20121217-17619.b\C-8260.m | | |
| Last Update: | 17-Dec-2012 14:48:33 | Calib Date: | 10-Dec-2012 03:44:30 |
| 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: | 0 | | |
| Process Host: | XAWRK032 | | |

First Level Reviewer: HillL Date: 17-Dec-2012 14:48:33

Calibrated Tentative Identified Compound Results

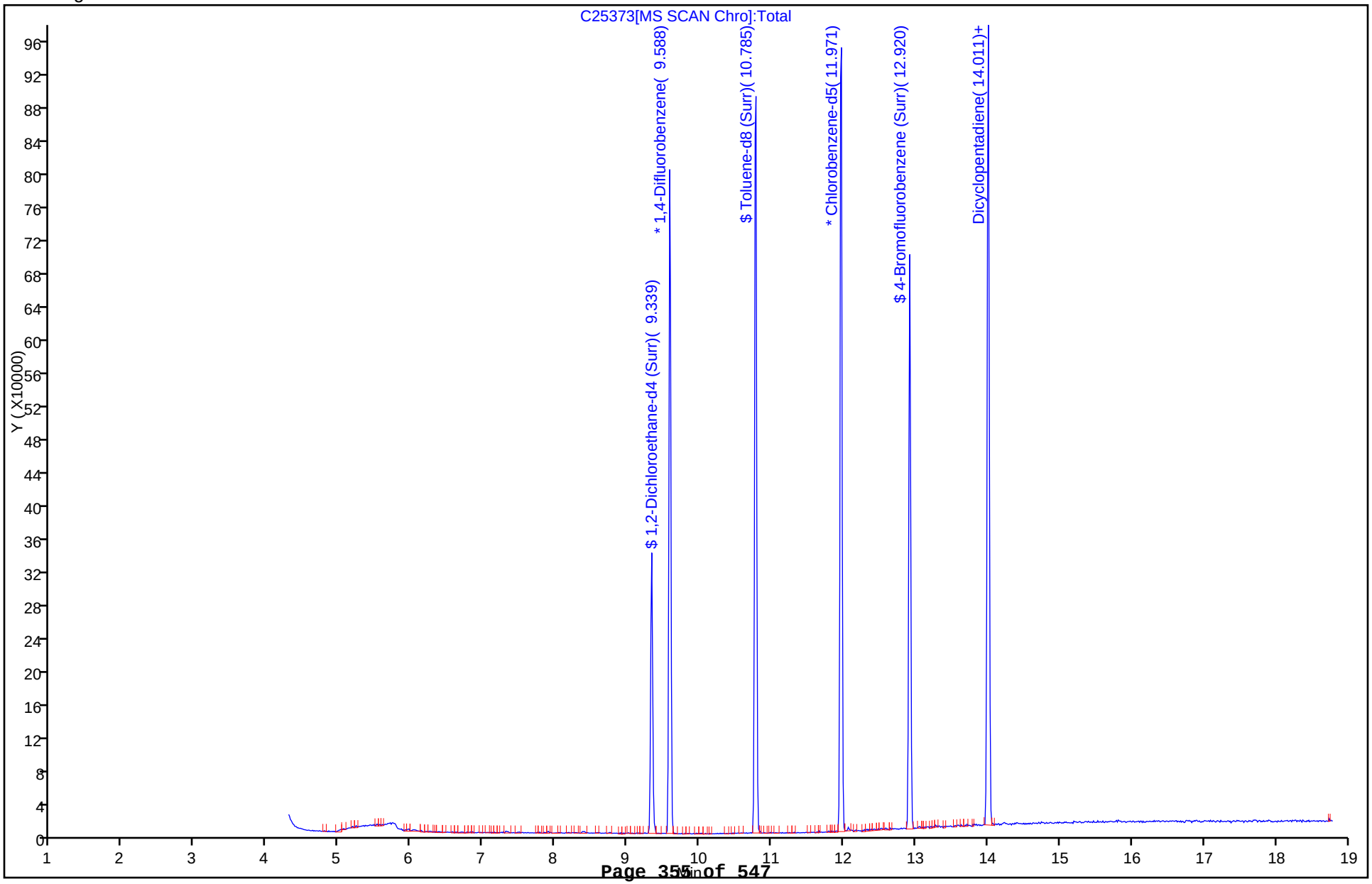
| Compound | RT | Response | Amount ug/L | Flags |
|---|---|---|---|---|

Report Date: 17-Dec-2012 14:48:34 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121217-17619.b\C25373.D | | |
| Injection Date: | 17-Dec-2012 14:31:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973C |
| Lims Batch ID: | 96178 | Lims Sample ID: | 5 |
| Operator ID: | LH | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-29976-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 480-95715/5
Matrix: Solid
Lab File ID: F4301.D
Analysis Method: 8260C
Date Collected:
Sample wt/vol: 5(g)
Date Analyzed: 12/13/2012 23:08
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 95715
Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 107-39-1 | 2,4,4-Trimethyl-1-pentene | 62.2 | | 5.0 | 0.43 |
| 107-40-4 | 2,4,4-Trimethyl-2-pentene | 56.5 | | 5.0 | 0.53 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 2037-26-5 | Toluene-d8 (Surr) | 92 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 88 | | 70-130 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 89 | | 70-130 |

TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4301.D | | |
| Lims ID: | LCS | Client ID: | |
| Inject. Date: | 13-Dec-2012 23:08:30 | Dil. Factor: | 1.0000 |
| Sample Type: | LCS | | |
| Sample ID: | LCS | | |
| Misc. Info.: | 480-0017526-005 =480-0017526-005 | | |
| Operator: | CDC | Instrument ID: | HP5973F |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 4 |
| Lims Batch ID: | 95715 | Lims Sample ID: | 5 |
| Detector: | MS SCAN | | |
| Method: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F-8260 SOIL.m | | |
| Last Update: | 14-Dec-2012 11:30:00 | Calib Date: | 11-Dec-2012 23:36:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4239.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK027 | | |

First Level Reviewer: gigliad Date: 14-Dec-2012 11:30:00

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 5.608 | 5.608 | 0.0 | 92 | 357453 | 50.0 | |
| * 2 Chlorobenzene-d5 | 82 | 8.382 | 8.382 | 0.0 | 72 | 157609 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 10.700 | 10.700 | 0.0 | 91 | 182150 | 50.0 | |
| $ 4 1,2-Dichloroethane-d4 (Surr) | 67 | 5.304 | 5.304 | 0.0 | 94 | 57291 | 44.2 | |
| $ 5 Toluene-d8 (Surr) | 98 | 6.928 | 6.928 | 0.0 | 82 | 437577 | 46.0 | |
| $ 6 4-Bromofluorobenzene (Surr) | 174 | 9.599 | 9.599 | 0.0 | 92 | 149297 | 44.5 | |
| 10 Dichlorodifluoromethane | 85 | 2.001 | 1.995 | 0.006 | 87 | 255360 | 135.8 | |
| 11 Chlorodifluoromethane | 51 | 2.013 | 2.013 | 0.0 | 76 | 155867 | 0 | |
| 12 Chloromethane | 50 | 2.153 | 2.147 | 0.006 | 89 | 109410 | 51.2 | |
| 13 Vinyl chloride | 62 | 2.274 | 2.268 | 0.006 | 83 | 112456 | 56.3 | |
| 14 Bromomethane | 94 | 2.548 | 2.548 | 0.0 | 88 | 28455 | 40.0 | |
| 15 Chloroethane | 64 | 2.627 | 2.621 | 0.006 | 90 | 28768 | 39.7 | |
| 16 Dichlorofluoromethane | 67 | 2.804 | 2.810 | -0.006 | 82 | 132129 | 0 | |
| 17 Trichlorofluoromethane | 101 | 2.852 | 2.846 | 0.006 | 82 | 128789 | 55.9 | |
| 18 Ethyl ether | 59 | 3.029 | 3.035 | -0.006 | 90 | 110940 | 50.6 | |
| 19 Propene oxide | 58 | 3.126 | 3.132 | -0.006 | 89 | 174371 | 0 | |
| 20 Acrolein | 56 | 3.193 | 3.187 | 0.006 | 96 | 423895 | 940.4 | |
| 21 1,1,2-Trichloro-1,2,2-trifluoroe | 101 | 3.223 | 3.224 | -0.001 | 81 | 254639 | 125.9 | |
| 22 1,1-Dichloroethene | 96 | 3.254 | 3.254 | 0.0 | 85 | 131000 | 57.2 | |
| 23 Acetone | 43 | 3.309 | 3.303 | 0.006 | 97 | 237691 | 235.2 | |
| 24 Isopropyl alcohol | 45 | 3.400 | 3.400 | 0.0 | 98 | 291766 | 0 | |
| 25 Iodomethane | 142 | 3.418 | 3.418 | 0.0 | 96 | 183060 | 50.6 | |
| 26 Carbon disulfide | 76 | 3.473 | 3.467 | 0.006 | 98 | 363517 | 52.0 | |
| 27 Methyl acetate | 43 | 3.528 | 3.528 | 0.0 | 90 | 172680 | 48.8 | |
| 28 3-Chloro-1-propene | 41 | 3.558 | 3.558 | 0.018 | 42 | 1039509 | 257.1 | E |
| 29 Acetonitrile | 40 | 3.564 | 3.564 | 0.006 | 98 | 480141 | 2084.3 | |
| 30 Methylene Chloride | 84 | 3.649 | 3.643 | 0.006 | 83 | 146732 | 47.5 | |
| 31 2-Methyl-2-propanol | 59 | 3.704 | 3.704 | 0.0 | 98 | 479443 | 933.2 | |
| 32 Methyl tert-butyl ether | 73 | 3.801 | 3.801 | 0.0 | 83 | 383119 | 51.9 | |
| 34 trans-1,2-Dichloroethene | 96 | 3.838 | 3.832 | 0.006 | 94 | 151653 | 55.1 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 33 Acrylonitrile | 53 | 3.856 | 3.850 | 0.006 | 98 | 317304 | 252.7 | |
| 35 Hexane | 57 | 3.972 | 3.978 | -0.006 | 91 | 237661 | 0 | |
| 36 Isopropyl ether | 45 | 4.130 | 4.130 | 0.0 | 70 | 482300 | 54.2 | |
| 134 Halothane | 117 | 4.130 | 4.130 | 0.0 | 0 | 81732 | 54.6 | |
| 37 Vinyl acetate | 43 | 4.154 | 4.154 | 0.0 | 97 | 1650426 | 317.3 | |
| 39 1,1-Dichloroethane | 63 | 4.173 | 4.173 | -0.001 | 69 | 242813 | 54.4 | |
| 38 1,1-Dimethoxyethane | 75 | | 4.203 | | | | | 2 |
| 40 2-Chloro-1,3-butadiene | 53 | 4.227 | 4.227 | 0.0 | 84 | 214299 | 0 | |
| 41 Tert-butyl ethyl ether | 59 | 4.416 | 4.416 | 0.0 | 97 | 427349 | 52.1 | |
| 42 Ethyl acetate | 43 | | 4.610 | | | | | 2 |
| 43 2-Butanone (MEK) | 43 | 4.617 | 4.617 | 0.0 | 97 | 568943 | 341.9 | |
| 44 2,2-Dichloropropane | 77 | 4.623 | 4.623 | 0.0 | 66 | 187126 | 54.6 | |
| 45 cis-1,2-Dichloroethene | 96 | 4.635 | 4.629 | 0.006 | 69 | 162217 | 53.8 | |
| 46 Propionitrile | 54 | 4.720 | 4.720 | 0.0 | 98 | 266239 | 502.3 | |
| 47 Methacrylonitrile | 41 | 4.817 | 4.817 | 0.0 | 89 | 87083 | 0 | |
| 48 Chlorobromomethane | 128 | 4.842 | 4.842 | 0.0 | 89 | 85341 | 54.0 | |
| 49 Tetrahydrofuran | 42 | 4.860 | 4.854 | 0.006 | 91 | 277156 | 250.2 | |
| 50 Chloroform | 83 | 4.878 | 4.872 | 0.006 | 80 | 231849 | 53.6 | |
| 51 1,1,1-Trichloroethane | 97 | 5.024 | 5.018 | 0.006 | 92 | 205275 | 55.6 | |
| 52 Cyclohexane | 56 | 5.055 | 5.049 | 0.006 | 89 | 240345 | 57.6 | |
| 54 1,1-Dichloropropene | 75 | 5.140 | 5.140 | 0.0 | 93 | 190233 | 58.2 | |
| 55 Carbon tetrachloride | 117 | 5.152 | 5.146 | 0.006 | 77 | 185001 | 56.8 | |
| 53 Isobutyl alcohol | 43 | 5.201 | 5.194 | 0.007 | 91 | 467574 | 0 | |
| 57 Benzene | 78 | 5.328 | 5.328 | 0.0 | 96 | 558899 | 54.4 | |
| 56 Tert-amyl methyl ether | 73 | 5.341 | 5.347 | -0.006 | 96 | 398967 | 55.2 | |
| 58 1,2-Dichloroethane | 62 | 5.365 | 5.365 | 0.0 | 76 | 172833 | 53.5 | |
| 59 n-Heptane | 43 | 5.420 | 5.420 | 0.0 | 93 | 259332 | 58.5 | |
| 136 2,4,4-Trimethyl-1-pentene | 55 | 5.742 | 5.736 | 0.006 | 0 | 165478 | 62.2 | |
| 60 n-Butanol | 56 | 5.748 | 5.748 | 0.0 | 90 | 392420 | 0 | |
| 62 Trichloroethene | 95 | 5.852 | 5.852 | 0.0 | 90 | 150748 | 54.3 | |
| 135 2,4,4-Trimethyl-2-pentene | 97 | 5.918 | 5.918 | 0.0 | 0 | 326379 | 56.5 | |
| 64 Methylcyclohexane | 83 | 5.991 | 5.985 | 0.006 | 86 | 255847 | 59.8 | |
| 65 1,2-Dichloropropane | 63 | 6.077 | 6.077 | 0.0 | 95 | 140298 | 54.7 | |
| 63 Methyl methacrylate | 41 | 6.083 | 6.083 | 0.0 | 92 | 212415 | 80.1 | |
| 66 1,4-Dioxane | 88 | 6.180 | 6.174 | 0.006 | 90 | 93558 | 1978.4 | |
| 67 Dibromomethane | 93 | 6.210 | 6.211 | -0.001 | 88 | 84030 | 54.4 | |
| 68 Dichlorobromomethane | 83 | 6.320 | 6.320 | 0.0 | 93 | 168545 | 54.1 | |
| 69 2-Chloroethyl vinyl ether | 63 | 6.527 | 6.521 | 0.006 | 87 | 479180 | 264.8 | |
| 70 2-Nitropropane | 43 | 6.527 | 6.533 | -0.006 | 93 | 555245 | 573.1 | |
| 71 Epichlorohydrin | 57 | 6.642 | 6.642 | 0.0 | 97 | 400593 | 0 | |
| 72 cis-1,3-Dichloropropene | 75 | 6.703 | 6.697 | 0.006 | 81 | 224508 | 56.2 | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | 6.801 | 6.801 | 0.0 | 95 | 802642 | 245.4 | |
| 74 Toluene | 92 | 6.995 | 6.995 | 0.0 | 95 | 379198 | 54.2 | |
| 75 Ethyl methacrylate | 69 | 7.214 | 7.208 | 0.006 | 89 | 192458 | 52.6 | |
| 77 trans-1,3-Dichloropropene | 75 | 7.220 | 7.214 | 0.006 | 91 | 195672 | 53.9 | |
| 79 1,1,2-Trichloroethane | 83 | 7.415 | 7.415 | 0.0 | 84 | 103705 | 53.9 | |
| 81 Tetrachloroethene | 166 | 7.518 | 7.519 | -0.001 | 91 | 194896 | 61.0 | |
| 82 1,3-Dichloropropane | 76 | 7.585 | 7.585 | 0.0 | 91 | 209944 | 53.3 | |
| 80 2-Hexanone | 43 | 7.591 | 7.592 | -0.001 | 95 | 591510 | 245.9 | |
| 83 Chlorodibromomethane | 129 | 7.829 | 7.829 | 0.0 | 87 | 147219 | 54.5 | |
| 84 Ethylene Dibromide | 107 | 7.963 | 7.957 | 0.006 | 97 | 145490 | 53.7 | |
| 86 4-Chlorobenzotrifluoride | 180 | 8.303 | 8.309 | -0.006 | 91 | 271427 | 0 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 85 3-Chlorobenzotrifluoride | 180 | 8.364 | 8.364 | 0.0 | 87 | 271422 | 0 | |
| 87 Chlorobenzene | 112 | 8.413 | 8.413 | 0.0 | 95 | 460959 | 54.8 | |
| 88 Ethylbenzene | 91 | 8.474 | 8.474 | 0.0 | 97 | 708518 | 54.7 | |
| 89 1,1,1,2-Tetrachloroethane | 131 | 8.492 | 8.492 | 0.0 | 90 | 157886 | 54.8 | |
| 90 m-Xylene & p-Xylene | 106 | 8.589 | 8.589 | 0.0 | 99 | 597144 | 109.1 | |
| 91 o-Xylene | 106 | 9.021 | 9.021 | 0.0 | 94 | 290869 | 54.3 | |
| 92 Styrene | 104 | 9.045 | 9.046 | -0.001 | 95 | 490446 | 55.0 | |
| 93 2-Chlorobenzotrifluoride | 180 | 9.295 | 9.295 | 0.0 | 96 | 266626 | 0 | |
| 95 Bromoform | 173 | 9.319 | 9.319 | 0.0 | 97 | 99433 | 47.4 | |
| 94 Isopropylbenzene | 105 | 9.386 | 9.386 | 0.0 | 94 | 745442 | 53.6 | |
| 96 Cyclohexanone | 55 | 9.581 | 9.581 | 0.0 | 89 | 297285 | 0 | |
| 97 1,1,2,2-Tetrachloroethane | 83 | 9.757 | 9.757 | 0.0 | 87 | 184157 | 51.9 | |
| 101 Bromobenzene | 156 | 9.769 | 9.769 | 0.0 | 86 | 207687 | 52.2 | |
| 99 N-Propylbenzene | 91 | 9.800 | 9.800 | 0.0 | 95 | 866275 | 54.1 | |
| 98 trans-1,4-Dichloro-2-butene | 53 | 9.800 | 9.800 | 0.0 | 54 | 237452 | 250.4 | |
| 100 1,2,3-Trichloropropane | 110 | 9.812 | 9.812 | 0.0 | 56 | 59699 | 52.2 | |
| 103 2-Chlorotoluene | 126 | 9.934 | 9.928 | 0.006 | 98 | 202757 | 53.3 | |
| 102 1,3,5-Trimethylbenzene | 105 | 9.964 | 9.964 | 0.0 | 95 | 625771 | 52.6 | |
| 104 3-Chlorotoluene | 126 | 9.988 | 9.988 | 0.0 | 84 | 228572 | 0 | |
| 105 4-Chlorotoluene | 126 | 10.031 | 10.031 | 0.0 | 96 | 209168 | 53.4 | |
| 106 tert-Butylbenzene | 134 | 10.280 | 10.281 | 0.0 | 87 | 156592 | 54.1 | |
| 107 1,2,4-Trimethylbenzene | 105 | 10.329 | 10.329 | 0.0 | 94 | 631632 | 52.8 | |
| 108 Pentachloroethane | 167 | 10.359 | 10.359 | 0.0 | 79 | 102354 | 0 | |
| 109 sec-Butylbenzene | 105 | 10.481 | 10.481 | 0.0 | 92 | 819549 | 54.4 | |
| 110 4-Isopropyltoluene | 119 | 10.603 | 10.603 | 0.0 | 97 | 760392 | 54.5 | |
| 111 1,3-Dichlorobenzene | 146 | 10.639 | 10.639 | 0.0 | 95 | 397800 | 52.4 | |
| 114 Dicyclopentadiene | 66 | 10.718 | 10.718 | 0.0 | 96 | 669474 | 0 | |
| 113 1,4-Dichlorobenzene | 146 | 10.725 | 10.725 | -0.001 | 86 | 398699 | 51.7 | |
| 112 1,2,3-Trimethylbenzene | 105 | 10.731 | 10.731 | 0.0 | 97 | 642439 | 0 | |
| 115 n-Butylbenzene | 91 | 10.974 | 10.974 | 0.0 | 93 | 602926 | 54.4 | |
| 116 1,2-Dichlorobenzene | 146 | 11.065 | 11.065 | 0.0 | 98 | 382315 | 52.6 | |
| 117 1,2-Dibromo-3-Chloropropane | 75 | 11.740 | 11.741 | -0.001 | 84 | 33843 | 52.9 | |
| 118 1,3,5-Trichlorobenzene | 180 | 11.862 | 11.862 | 0.0 | 97 | 300062 | 0 | |
| 119 1,2,4-Trichlorobenzene | 180 | 12.385 | 12.385 | 0.0 | 93 | 265749 | 55.7 | |
| 120 Hexachlorobutadiene | 225 | 12.483 | 12.483 | 0.0 | 95 | 139377 | 55.4 | |
| 121 Naphthalene | 128 | 12.623 | 12.623 | 0.0 | 96 | 713947 | 53.0 | |
| 122 1,2,3-Trichlorobenzene | 180 | 12.836 | 12.842 | -0.006 | 95 | 240836 | 56.0 | |
| S 124 Xylenes, Total | 1 | | | | 0 | | 163.5 | |
| S 125 1,2-Dichloroethene, Total | 1 | | | | 0 | | 108.9 | |
| S 126 1,3-Dichloropropene, Total | 1 | | | | 0 | | 110.1 | |

QC Flag Legend

Processing Flags
2 - Failed Coelution Test
E - Exceeded Maximum Amount

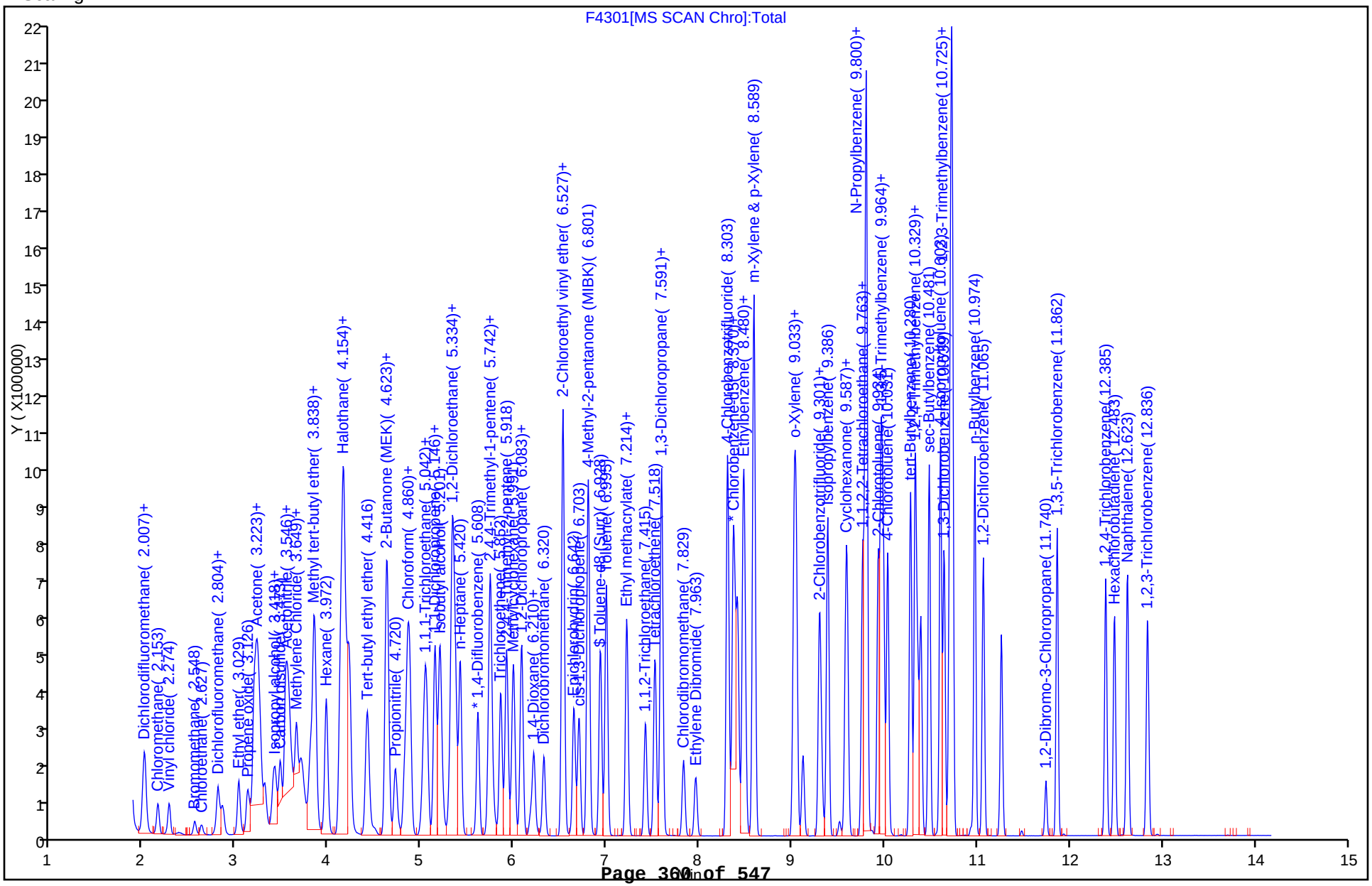
Report Date: 14-Dec-2012 11:30:00 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4301.D

| | | | |
|---|---|---|---|
| Injection Date: | 13-Dec-2012 23:08:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 5 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-29976-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 480-96180/1-A
Matrix: Solid
Lab File ID: C25370.D
Analysis Method: 8260C
Date Collected:
Sample wt/vol: 5(g)
Date Analyzed: 12/17/2012 13:15
Soil Aliquot Vol: 100 (uL)
Dilution Factor: 1
Soil Extract Vol.: 10(mL)
GC Column: ZB-624 (30) ID: 0.53(mm)
% Moisture:
Level: (low/med) Medium
Analysis Batch No.: 96178
Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 107-39-1 | 2,4,4-Trimethyl-1-pentene | 2500 | | 500 | 43 |
| 107-40-4 | 2,4,4-Trimethyl-2-pentene | 3460 | | 500 | 53 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 2037-26-5 | Toluene-d8 (Surr) | 89 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 92 | | 70-130 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 87 | | 70-130 |

Report Date: 17-Dec-2012 14:27:27 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121217-17619.b\C25370.D | | |
| Lims ID: | LCS 480-96180/1-A | Client ID: | |
| Inject. Date: | 17-Dec-2012 13:15:30 | Dil. Factor: | 1.0000 |
| Sample Type: | LCS | | |
| Sample ID: | LCS 480-96180/1-A | | |
| Misc. Info.: | 480-0017619-004 | | |
| Operator: | LH | Instrument ID: | HP5973C |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 56 |
| Lims Batch ID: | 96178 | Lims Sample ID: | 4 |
| Detector: | MS SCAN | | |

| | | | |
|---|---|---|---|
| Method: | \\Bufchrom\ChromData\HP5973C\20121217-17619.b\C-8260.m | | |
| Last Update: | 17-Dec-2012 14:27:27 | Calib Date: | 10-Dec-2012 03:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25063.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK032 | | |

First Level Reviewer: HillL Date: 17-Dec-2012 14:27:27

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 9.587 | 9.588 | -0.001 | 96 | 597124 | 25.0 | |
| * 2 Chlorobenzene-d5 | 82 | 11.971 | 11.971 | 0.0 | 88 | 334599 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.011 | 14.011 | 0.0 | 89 | 291239 | 25.0 | |
| $ 4 1,2-Dichloroethane-d4 (Surr) | 67 | 9.338 | 9.339 | -0.001 | 0 | 127326 | 22.9 | |
| $ 5 Toluene-d8 (Surr) | 98 | 10.785 | 10.785 | 0.0 | 93 | 661633 | 22.3 | |
| $ 6 4-Bromofluorobenzene (Surr) | 174 | 12.920 | 12.920 | 0.0 | 82 | 204968 | 21.8 | |
| 10 Dichlorodifluoromethane | 85 | 4.619 | 4.607 | 0.012 | 84 | 513727 | 74.7 | |
| 11 Chlorodifluoromethane | 51 | 4.631 | 4.643 | -0.013 | 78 | 358705 | 0 | |
| 12 Chloromethane | 50 | 5.034 | 5.034 | 0.0 | 88 | 282590 | 29.5 | |
| 13 Vinyl chloride | 62 | 5.235 | 5.235 | 0.0 | 97 | 280334 | 32.1 | |
| 14 Bromomethane | 94 | 5.864 | 5.876 | -0.012 | 90 | 173222 | 27.5 | |
| 15 Chloroethane | 64 | 6.006 | 6.006 | 0.0 | 98 | 177990 | 30.5 | |
| 16 Dichlorofluoromethane | 67 | 6.279 | 6.279 | 0.0 | 82 | 464691 | 0 | |
| 17 Trichlorofluoromethane | 101 | 6.326 | 6.338 | -0.012 | 85 | 339513 | 28.4 | |
| 18 Ethyl ether | 59 | 6.658 | 6.659 | -0.001 | 94 | 230422 | 28.0 | |
| 19 Propene oxide | 58 | 6.801 | 6.801 | 0.0 | 94 | 312268 | 0 | |
| 20 Acrolein | 56 | 6.907 | 6.907 | 0.0 | 97 | 816455 | 583.3 | |
| 21 1,1,2-Trichloro-1,2,2-trifluoroe | 101 | 6.919 | 6.919 | 0.0 | 79 | 323889 | 55.7 | |
| 22 1,1-Dichloroethene | 96 | 6.990 | 6.990 | 0.0 | 85 | 174987 | 27.5 | |
| 23 Acetone | 43 | 7.062 | 7.062 | 0.0 | 99 | 469551 | 129.5 | |
| 24 Isopropyl alcohol | 45 | 7.156 | 7.145 | 0.011 | 99 | 361869 | 0 | |
| 25 Iodomethane | 142 | 7.239 | 7.239 | 0.0 | 97 | 234685 | 26.6 | |
| 26 Carbon disulfide | 76 | 7.322 | 7.322 | 0.0 | 99 | 743357 | 32.1 | |
| 27 Methyl acetate | 43 | 7.346 | 7.346 | 0.0 | 97 | 287666 | 25.4 | |
| 28 3-Chloro-1-propene | 41 | 7.405 | 7.370 | 0.035 | 43 | 1790734 | 131.0 | E |
| 29 Acetonitrile | 40 | 7.405 | 7.405 | 0.0 | 99 | 803407 | 1102.8 | |
| 30 Methylene Chloride | 84 | 7.524 | 7.524 | 0.0 | 94 | 235636 | 25.8 | |
| 31 2-Methyl-2-propanol | 59 | 7.536 | 7.536 | 0.0 | 98 | 704203 | 493.0 | |
| 32 Methyl tert-butyl ether | 73 | 7.690 | 7.690 | 0.0 | 92 | 697040 | 26.3 | |
| 34 trans-1,2-Dichloroethene | 96 | 7.761 | 7.761 | 0.0 | 90 | 222040 | 26.2 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| 33 Acrylonitrile | 53 | 7.773 | 7.773 | 0.0 | 99 | 546849 | 138.0 | |
| 35 Hexane | 57 | 7.892 | 7.892 | 0.0 | 94 | 352796 | 0 | |
| 135 Halothane | 117 | 8.046 | 8.046 | 0.0 | 0 | 97369 | 23.0 | |
| 36 Isopropyl ether | 45 | 8.058 | 8.058 | 0.0 | 94 | 822788 | 27.8 | |
| 37 Vinyl acetate | 43 | 8.093 | 8.093 | 0.0 | 89 | 3152285 | 153.1 | |
| 39 1,1-Dichloroethane | 63 | 8.152 | 8.153 | -0.001 | 80 | 457203 | 27.1 | |
| 38 1,1-Dimethoxyethane | 75 | | 8.153 | | | | | 2 |
| 40 2-Chloro-1,3-butadiene | 53 | 8.212 | 8.212 | 0.0 | 80 | 398089 | 0 | |
| 41 Tert-butyl ethyl ether | 59 | 8.366 | 8.366 | 0.0 | 99 | 800071 | 26.9 | |
| 42 Ethyl acetate | 43 | 8.615 | 8.580 | 0.035 | 92 | 1000737 | 0 | |
| 43 2-Butanone (MEK) | 43 | 8.615 | 8.615 | 0.0 | 99 | 1000737 | 179.3 | |
| 44 2,2-Dichloropropane | 77 | 8.651 | 8.651 | 0.0 | 86 | 278108 | 26.2 | |
| 45 cis-1,2-Dichloroethene | 96 | 8.651 | 8.651 | 0.0 | 73 | 245655 | 25.6 | |
| 46 Propionitrile | 54 | 8.734 | 8.722 | 0.012 | 98 | 430316 | 265.6 | |
| 47 Methacrylonitrile | 41 | 8.828 | 8.829 | -0.001 | 93 | 188411 | 0 | |
| 48 Chlorobromomethane | 128 | 8.888 | 8.888 | 0.0 | 86 | 120685 | 25.5 | |
| 49 Tetrahydrofuran | 42 | 8.888 | 8.888 | 0.0 | 90 | 464587 | 133.2 | |
| 50 Chloroform | 83 | 8.888 | 8.888 | 0.0 | 82 | 416178 | 25.6 | |
| 51 1,1,1-Trichloroethane | 97 | 9.066 | 9.066 | 0.0 | 91 | 325816 | 25.7 | |
| 52 Cyclohexane | 56 | 9.101 | 9.101 | 0.0 | 95 | 374426 | 30.5 | |
| 53 Isobutyl alcohol | 43 | 9.137 | 9.137 | 0.0 | 92 | 669605 | 0 | |
| 54 1,1-Dichloropropene | 75 | 9.172 | 9.172 | 0.0 | 90 | 330019 | 26.8 | |
| 55 Carbon tetrachloride | 117 | 9.196 | 9.196 | 0.0 | 68 | 293153 | 24.7 | |
| 56 Tert-amyl methyl ether | 73 | 9.326 | 9.327 | -0.001 | 93 | 710547 | 27.5 | |
| 57 Benzene | 78 | 9.374 | 9.374 | 0.0 | 95 | 924013 | 26.9 | |
| 59 n-Heptane | 43 | 9.374 | 9.374 | 0.0 | 91 | 367458 | 29.3 | |
| 58 1,2-Dichloroethane | 62 | 9.398 | 9.398 | 0.0 | 88 | 387109 | 24.5 | |
| 60 n-Butanol | 56 | 9.647 | 9.647 | 0.0 | 80 | 416471 | 0 | |
| 141 2,4,4-Trimethyl-1-pentene | 55 | 9.694 | 9.694 | 0.0 | 0 | 137485 | 25.0 | |
| 140 2,4,4-Trimethyl-2-pentene | 97 | 9.848 | 9.837 | 0.011 | 0 | 538149 | 34.6 | |
| 62 Trichloroethene | 95 | 9.848 | 9.848 | 0.0 | 58 | 239407 | 25.9 | |
| 64 Methylcyclohexane | 83 | 9.979 | 9.979 | 0.0 | 82 | 325207 | 25.2 | |
| 63 Methyl methacrylate | 41 | 9.979 | 9.979 | 0.0 | 89 | 404647 | 40.7 | |
| 65 1,2-Dichloropropane | 63 | 10.062 | 10.050 | 0.012 | 91 | 249716 | 26.2 | |
| 66 1,4-Dioxane | 88 | 10.121 | 10.121 | 0.0 | 95 | 96986 | 920.6 | |
| 67 Dibromomethane | 93 | 10.192 | 10.192 | 0.0 | 83 | 157373 | 24.2 | |
| 68 Dichlorobromomethane | 83 | 10.251 | 10.252 | -0.001 | 92 | 314325 | 24.7 | |
| 69 2-Chloroethyl vinyl ether | 63 | 10.370 | 10.370 | 0.0 | 91 | 940261 | 131.6 | |
| 70 2-Nitropropane | 43 | 10.417 | 10.418 | -0.001 | 93 | 531842 | 125.7 | |
| 71 Epichlorohydrin | 57 | 10.512 | 10.513 | -0.001 | 98 | 653455 | 0 | |
| 77 trans-1,3-Dichloropropene | 75 | 10.572 | 10.572 | 0.0 | 91 | 393561 | 24.4 | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | 10.607 | 10.607 | 0.0 | 97 | 1510655 | 124.3 | |
| 74 Toluene | 92 | 10.833 | 10.833 | -0.001 | 97 | 573860 | 24.7 | |
| 75 Ethyl methacrylate | 69 | 10.904 | 10.904 | 0.0 | 90 | 322408 | 24.6 | |
| 72 cis-1,3-Dichloropropene | 75 | 10.987 | 10.987 | 0.0 | 88 | 371229 | 24.8 | |
| 79 1,1,2-Trichloroethane | 83 | 11.165 | 11.165 | 0.0 | 90 | 173916 | 24.2 | |
| 80 2-Hexanone | 43 | 11.248 | 11.248 | 0.0 | 95 | 1084941 | 123.2 | |
| 81 Tetrachloroethene | 166 | 11.283 | 11.283 | 0.0 | 90 | 237544 | 25.7 | |
| 82 1,3-Dichloropropane | 76 | 11.307 | 11.307 | 0.0 | 90 | 376797 | 24.1 | |
| 83 Chlorodibromomethane | 129 | 11.532 | 11.532 | 0.0 | 88 | 224864 | 22.8 | |
| 84 Ethylene Dibromide | 107 | 11.663 | 11.663 | 0.0 | 97 | 211022 | 23.1 | |
| 85 3-Chlorobenzotrifluoride | 180 | 11.805 | 11.805 | 0.0 | 93 | 314182 | 0 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| 86 4-Chlorobenzotrifluoride | 180 | 11.840 | 11.841 | -0.001 | 96 | 352725 | 0 | |
| 88 Ethylbenzene | 91 | 11.995 | 11.995 | 0.0 | 93 | 1099076 | 24.7 | |
| 87 Chlorobenzene | 112 | 11.995 | 11.995 | 0.0 | 83 | 607249 | 24.3 | |
| 89 1,1,1,2-Tetrachloroethane | 131 | 12.030 | 12.030 | 0.0 | 74 | 212734 | 24.5 | |
| 90 m-Xylene & p-Xylene | 106 | 12.078 | 12.078 | 0.0 | 99 | 820064 | 49.8 | |
| 91 o-Xylene | 106 | 12.433 | 12.433 | 0.0 | 96 | 396158 | 24.6 | |
| 92 Styrene | 104 | 12.445 | 12.445 | 0.0 | 92 | 650498 | 23.6 | |
| 93 2-Chlorobenzotrifluoride | 180 | 12.599 | 12.600 | -0.001 | 94 | 314448 | 0 | |
| 94 Isopropylbenzene | 105 | 12.694 | 12.694 | 0.0 | 97 | 1054680 | 24.8 | |
| 95 Bromoform | 173 | 12.730 | 12.730 | 0.0 | 94 | 146089 | 22.4 | |
| 96 Cyclohexanone | 55 | 12.931 | 12.932 | -0.001 | 95 | 760323 | 0 | |
| 97 1,1,2,2-Tetrachloroethane | 83 | 13.003 | 13.003 | 0.0 | 82 | 296106 | 24.2 | |
| 98 trans-1,4-Dichloro-2-butene | 53 | 13.026 | 13.026 | 0.0 | 93 | 435489 | 122.3 | |
| 99 N-Propylbenzene | 91 | 13.050 | 13.050 | 0.0 | 98 | 1322620 | 25.0 | |
| 100 1,2,3-Trichloropropane | 110 | 13.086 | 13.086 | 0.0 | 50 | 92215 | 23.8 | |
| 101 Bromobenzene | 156 | 13.121 | 13.121 | 0.0 | 67 | 249718 | 24.2 | |
| 102 1,3,5-Trimethylbenzene | 105 | 13.169 | 13.169 | 0.0 | 92 | 897659 | 24.7 | |
| 103 2-Chlorotoluene | 126 | 13.228 | 13.228 | 0.0 | 94 | 262516 | 27.4 | |
| 104 3-Chlorotoluene | 126 | 13.275 | 13.276 | -0.001 | 94 | 305928 | 0 | |
| 105 4-Chlorotoluene | 126 | 13.311 | 13.323 | -0.012 | 99 | 249164 | 24.7 | |
| 106 tert-Butylbenzene | 134 | 13.513 | 13.513 | 0.0 | 87 | 172620 | 24.7 | |
| 107 1,2,4-Trimethylbenzene | 105 | 13.548 | 13.548 | 0.0 | 74 | 903463 | 24.6 | |
| 108 Pentachloroethane | 167 | 13.643 | 13.643 | 0.0 | 88 | 131045 | 0 | |
| 109 sec-Butylbenzene | 105 | 13.702 | 13.702 | 0.0 | 92 | 1122910 | 25.0 | |
| 110 4-Isopropyltoluene | 119 | 13.809 | 13.809 | 0.0 | 96 | 896520 | 25.1 | |
| 111 1,3-Dichlorobenzene | 146 | 13.951 | 13.951 | 0.0 | 94 | 473452 | 24.2 | |
| 112 1,2,3-Trimethylbenzene | 105 | 13.999 | 13.999 | 0.0 | 95 | 935315 | 0 | |
| 113 1,4-Dichlorobenzene | 146 | 14.034 | 14.034 | 0.0 | 86 | 479062 | 23.9 | |
| 114 Dicyclopentadiene | 66 | 14.058 | 14.058 | 0.0 | 93 | 258141 | 0 | |
| 115 n-Butylbenzene | 91 | 14.224 | 14.224 | 0.0 | 98 | 901437 | 25.2 | |
| 116 1,2-Dichlorobenzene | 146 | 14.461 | 14.461 | 0.0 | 93 | 453392 | 24.1 | |
| 117 1,2-Dibromo-3-Chloropropane | 75 | 15.374 | 15.374 | 0.0 | 64 | 62228 | 21.9 | |
| 118 1,3,5-Trichlorobenzene | 180 | 15.540 | 15.541 | -0.001 | 91 | 358209 | 0 | |
| 119 1,2,4-Trichlorobenzene | 180 | 16.430 | 16.430 | 0.0 | 92 | 343630 | 24.3 | |
| 120 Hexachlorobutadiene | 225 | 16.536 | 16.537 | -0.001 | 93 | 155234 | 24.1 | |
| 121 Naphthalene | 128 | 16.880 | 16.880 | 0.0 | 98 | 885318 | 22.8 | |
| 122 1,2,3-Trichlorobenzene | 180 | 17.272 | 17.272 | 0.0 | 92 | 319560 | 23.5 | |
| S 125 1,2-Dichloroethene, Total | 1 | | | | 0 | | 51.8 | |
| S 126 1,3-Dichloropropene, Total | 1 | | | | 0 | | 49.2 | |
| S 124 Xylenes, Total | 1 | | | | 0 | | 74.4 | |

QC Flag Legend

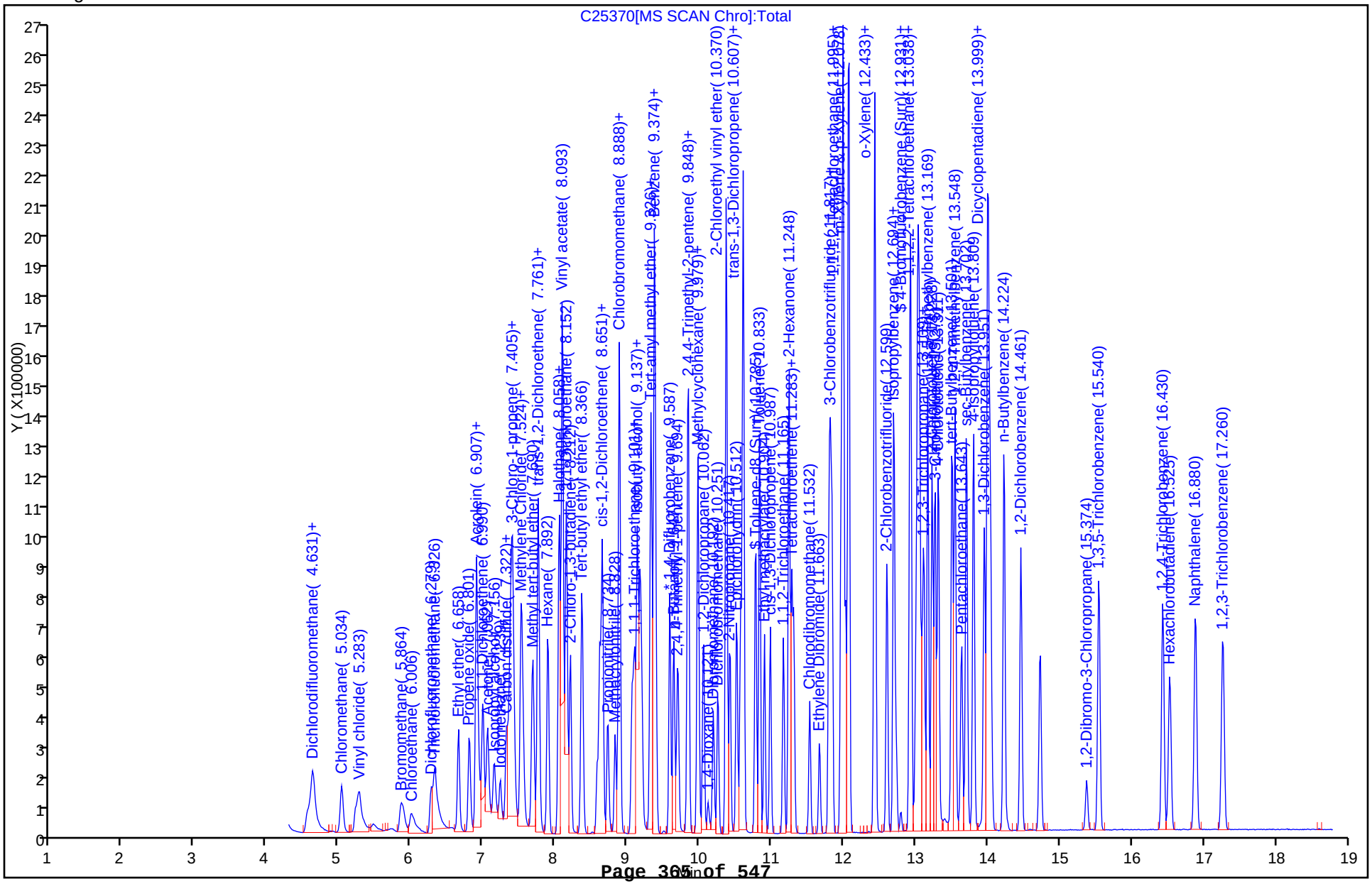
Processing Flags
2 - Failed Coelution Test
E - Exceeded Maximum Amount

Report Date: 17-Dec-2012 14:27:27 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121217-17619.b\C25370.D | | |
| Injection Date: | 17-Dec-2012 13:15:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973C |
| Lims Batch ID: | 96178 | Lims Sample ID: | 4 |
| Operator ID: | LH | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-29976-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCSD 480-95715/6
Matrix: Solid
Lab File ID: F4302.D
Analysis Method: 8260C
Date Collected:
Sample wt/vol: 5(g)
Date Analyzed: 12/13/2012 23:34
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 95715
Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 107-39-1 | 2,4,4-Trimethyl-1-pentene | 60.8 | | 5.0 | 0.43 |
| 107-40-4 | 2,4,4-Trimethyl-2-pentene | 53.4 | | 5.0 | 0.53 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 2037-26-5 | Toluene-d8 (Surr) | 88 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 86 | | 70-130 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 85 | | 70-130 |

Report Date: 14-Dec-2012 11:30:52 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4302.D | | |
| Lims ID: | LCSD | Client ID: | |
| Inject. Date: | 13-Dec-2012 23:34:30 | Dil. Factor: | 1.0000 |
| Sample Type: | LCSD | | |
| Sample ID: | LCSD | | |
| Misc. Info.: | 480-0017526-006 =480-0017526-006 | | |
| Operator: | CDC | Instrument ID: | HP5973F |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 5 |
| Lims Batch ID: | 95715 | Lims Sample ID: | 6 |
| Detector: | MS SCAN | | |
| Method: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F-8260 SOIL.m | | |
| Last Update: | 14-Dec-2012 11:30:48 | Calib Date: | 11-Dec-2012 23:36:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4239.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK027 | | |

First Level Reviewer: cwiklinc Date: 14-Dec-2012 00:56:12

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 5.608 | 5.608 | 0.0 | 92 | 366809 | 50.0 | |
| * 2 Chlorobenzene-d5 | 82 | 8.382 | 8.382 | 0.0 | 71 | 162437 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 10.700 | 10.700 | 0.0 | 91 | 184336 | 50.0 | |
| $ 4 1,2-Dichloroethane-d4 (Surr) | 67 | 5.298 | 5.304 | -0.006 | 94 | 57431 | 43.2 | |
| $ 5 Toluene-d8 (Surr) | 98 | 6.928 | 6.928 | 0.0 | 82 | 429891 | 43.9 | |
| $ 6 4-Bromofluorobenzene (Surr) | 174 | 9.599 | 9.599 | 0.0 | 92 | 147054 | 42.5 | |
| 10 Dichlorodifluoromethane | 85 | 1.989 | 1.995 | -0.007 | 87 | 243937 | 126.4 | |
| 11 Chlorodifluoromethane | 51 | 2.001 | 2.013 | -0.012 | 76 | 147813 | 0 | |
| 12 Chloromethane | 50 | 2.141 | 2.147 | -0.006 | 88 | 104696 | 47.8 | |
| 13 Vinyl chloride | 62 | 2.262 | 2.268 | -0.006 | 84 | 107571 | 52.5 | |
| 14 Bromomethane | 94 | 2.542 | 2.548 | -0.006 | 84 | 27117 | 37.3 | |
| 15 Chloroethane | 64 | 2.609 | 2.621 | -0.012 | 92 | 27116 | 36.4 | |
| 16 Dichlorofluoromethane | 67 | 2.792 | 2.810 | -0.018 | 96 | 128667 | 0 | |
| 17 Trichlorofluoromethane | 101 | 2.840 | 2.846 | -0.006 | 85 | 125352 | 53.0 | |
| 18 Ethyl ether | 59 | 3.017 | 3.035 | -0.018 | 89 | 110360 | 49.1 | |
| 19 Propene oxide | 58 | 3.114 | 3.132 | -0.018 | 92 | 172399 | 0 | |
| 20 Acrolein | 56 | 3.187 | 3.187 | 0.0 | 97 | 428415 | 926.1 | |
| 21 1,1,2-Trichloro-1,2,2-trifluoroe | 101 | 3.217 | 3.224 | -0.007 | 80 | 240704 | 115.9 | |
| 22 1,1-Dichloroethene | 96 | 3.248 | 3.254 | -0.006 | 84 | 126840 | 54.0 | |
| 23 Acetone | 43 | 3.303 | 3.303 | 0.0 | 100 | 239744 | 231.2 | |
| 24 Isopropyl alcohol | 45 | 3.388 | 3.400 | -0.012 | 98 | 299569 | 0 | |
| 25 Iodomethane | 142 | 3.412 | 3.418 | -0.006 | 96 | 179911 | 48.4 | |
| 26 Carbon disulfide | 76 | 3.467 | 3.467 | 0.0 | 98 | 342155 | 47.7 | |
| 27 Methyl acetate | 43 | 3.522 | 3.528 | -0.006 | 95 | 179561 | 49.4 | |
| 28 3-Chloro-1-propene | 41 | 3.552 | 3.552 | 0.012 | 42 | 1058725 | 255.1 | E |
| 29 Acetonitrile | 40 | 3.552 | 3.552 | -0.006 | 97 | 496574 | 2100.7 | |
| 30 Methylene Chloride | 84 | 3.643 | 3.643 | 0.0 | 83 | 145873 | 46.0 | |
| 31 2-Methyl-2-propanol | 59 | 3.698 | 3.704 | -0.006 | 97 | 484284 | 918.6 | |
| 32 Methyl tert-butyl ether | 73 | 3.795 | 3.801 | -0.006 | 87 | 383976 | 50.7 | |
| 34 trans-1,2-Dichloroethene | 96 | 3.826 | 3.832 | -0.006 | 94 | 148199 | 52.4 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 33 Acrylonitrile | 53 | 3.844 | 3.850 | -0.006 | 98 | 329384 | 255.7 | |
| 35 Hexane | 57 | 3.966 | 3.978 | -0.012 | 91 | 227754 | 0 | |
| 36 Isopropyl ether | 45 | 4.124 | 4.124 | -0.006 | 70 | 480790 | 52.7 | |
| 134 Halothane | 117 | 4.124 | 4.130 | -0.006 | 0 | 79586 | 51.8 | |
| 37 Vinyl acetate | 43 | 4.148 | 4.154 | -0.006 | 97 | 1661430 | 311.3 | |
| 39 1,1-Dichloroethane | 63 | 4.173 | 4.173 | -0.001 | 69 | 237292 | 51.8 | |
| 38 1,1-Dimethoxyethane | 75 | | 4.203 | | | | | 2 |
| 40 2-Chloro-1,3-butadiene | 53 | 4.221 | 4.227 | -0.006 | 84 | 206678 | 0 | |
| 41 Tert-butyl ethyl ether | 59 | 4.410 | 4.416 | -0.006 | 97 | 425247 | 50.5 | |
| 42 Ethyl acetate | 43 | 4.617 | 4.610 | 0.007 | 92 | 589085 | 0 | |
| 43 2-Butanone (MEK) | 43 | 4.617 | 4.617 | 0.0 | 97 | 589085 | 345.0 | |
| 44 2,2-Dichloropropane | 77 | 4.617 | 4.623 | -0.006 | 71 | 180818 | 51.4 | |
| 45 cis-1,2-Dichloroethene | 96 | 4.629 | 4.629 | 0.0 | 70 | 160126 | 51.8 | |
| 46 Propionitrile | 54 | 4.714 | 4.720 | -0.006 | 98 | 276656 | 508.6 | |
| 47 Methacrylonitrile | 41 | 4.811 | 4.817 | -0.006 | 90 | 89725 | 0 | |
| 48 Chlorobromomethane | 128 | 4.836 | 4.842 | -0.006 | 90 | 86311 | 53.2 | |
| 49 Tetrahydrofuran | 42 | 4.854 | 4.854 | 0.0 | 91 | 288983 | 254.2 | |
| 50 Chloroform | 83 | 4.872 | 4.872 | 0.0 | 80 | 228394 | 51.5 | |
| 51 1,1,1-Trichloroethane | 97 | 5.018 | 5.018 | 0.0 | 90 | 198680 | 52.4 | |
| 52 Cyclohexane | 56 | 5.049 | 5.049 | 0.0 | 89 | 230671 | 53.9 | |
| 54 1,1-Dichloropropene | 75 | 5.140 | 5.140 | 0.0 | 93 | 186014 | 55.4 | |
| 55 Carbon tetrachloride | 117 | 5.146 | 5.146 | 0.0 | 77 | 180448 | 54.0 | |
| 53 Isobutyl alcohol | 43 | 5.195 | 5.194 | 0.001 | 90 | 486554 | 0 | |
| 57 Benzene | 78 | 5.328 | 5.328 | 0.0 | 95 | 547945 | 51.9 | |
| 56 Tert-amyl methyl ether | 73 | 5.341 | 5.347 | -0.006 | 96 | 402796 | 54.3 | |
| 58 1,2-Dichloroethane | 62 | 5.365 | 5.365 | 0.0 | 77 | 176333 | 53.2 | |
| 59 n-Heptane | 43 | 5.414 | 5.420 | -0.006 | 92 | 246074 | 54.1 | |
| 136 2,4,4-Trimethyl-1-pentene | 55 | 5.736 | 5.736 | 0.0 | 0 | 166013 | 60.8 | |
| 60 n-Butanol | 56 | 5.742 | 5.748 | -0.006 | 91 | 406668 | 0 | |
| 62 Trichloroethene | 95 | 5.852 | 5.852 | 0.0 | 90 | 148468 | 52.1 | |
| 135 2,4,4-Trimethyl-2-pentene | 97 | 5.919 | 5.918 | 0.0 | 0 | 316294 | 53.4 | |
| 64 Methylcyclohexane | 83 | 5.992 | 5.985 | 0.007 | 86 | 244787 | 55.7 | |
| 65 1,2-Dichloropropane | 63 | 6.071 | 6.077 | -0.006 | 95 | 140122 | 53.3 | |
| 63 Methyl methacrylate | 41 | 6.077 | 6.083 | -0.006 | 93 | 218053 | 80.1 | |
| 66 1,4-Dioxane | 88 | 6.180 | 6.174 | 0.006 | 91 | 96320 | 1976.2 | |
| 67 Dibromomethane | 93 | 6.211 | 6.211 | -0.001 | 88 | 85377 | 53.9 | |
| 68 Dichlorobromomethane | 83 | 6.320 | 6.320 | 0.0 | 93 | 166508 | 52.1 | |
| 69 2-Chloroethyl vinyl ether | 63 | 6.521 | 6.521 | 0.0 | 88 | 493730 | 265.9 | |
| 70 2-Nitropropane | 43 | 6.527 | 6.533 | -0.006 | 93 | 572078 | 583.5 | |
| 71 Epichlorohydrin | 57 | 6.642 | 6.642 | 0.0 | 98 | 418405 | 0 | |
| 72 cis-1,3-Dichloropropene | 75 | 6.697 | 6.697 | 0.0 | 81 | 223743 | 54.6 | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | 6.795 | 6.801 | -0.006 | 95 | 834425 | 247.6 | |
| 74 Toluene | 92 | 6.995 | 6.995 | 0.0 | 95 | 370810 | 51.4 | |
| 75 Ethyl methacrylate | 69 | 7.208 | 7.208 | 0.0 | 90 | 197755 | 52.5 | |
| 77 trans-1,3-Dichloropropene | 75 | 7.220 | 7.214 | 0.006 | 93 | 197664 | 52.8 | |
| 79 1,1,2-Trichloroethane | 83 | 7.415 | 7.415 | 0.0 | 90 | 105424 | 53.2 | |
| 81 Tetrachloroethene | 166 | 7.518 | 7.519 | -0.001 | 90 | 195482 | 59.3 | |
| 82 1,3-Dichloropropane | 76 | 7.585 | 7.585 | 0.0 | 90 | 213308 | 52.5 | |
| 80 2-Hexanone | 43 | 7.591 | 7.592 | -0.001 | 95 | 618693 | 249.5 | |
| 83 Chlorodibromomethane | 129 | 7.829 | 7.829 | 0.0 | 87 | 149621 | 53.7 | |
| 84 Ethylene Dibromide | 107 | 7.957 | 7.957 | -0.001 | 97 | 148003 | 53.0 | |
| 86 4-Chlorobenzotrifluoride | 180 | 8.303 | 8.309 | -0.006 | 91 | 269662 | 0 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 85 3-Chlorobenzotrifluoride | 180 | 8.364 | 8.364 | 0.0 | 85 | 260249 | 0 | |
| 87 Chlorobenzene | 112 | 8.413 | 8.413 | 0.0 | 97 | 455280 | 52.5 | |
| 88 Ethylbenzene | 91 | 8.474 | 8.474 | 0.0 | 97 | 695976 | 52.1 | |
| 89 1,1,1,2-Tetrachloroethane | 131 | 8.492 | 8.492 | 0.0 | 85 | 157214 | 53.0 | |
| 90 m-Xylene & p-Xylene | 106 | 8.589 | 8.589 | 0.0 | 99 | 590155 | 104.7 | |
| 91 o-Xylene | 106 | 9.021 | 9.021 | 0.0 | 93 | 288184 | 52.2 | |
| 92 Styrene | 104 | 9.045 | 9.046 | -0.001 | 95 | 485291 | 52.8 | |
| 93 2-Chlorobenzotrifluoride | 180 | 9.295 | 9.295 | 0.0 | 97 | 261354 | 0 | |
| 95 Bromoform | 173 | 9.319 | 9.319 | 0.0 | 97 | 101580 | 47.0 | |
| 94 Isopropylbenzene | 105 | 9.386 | 9.386 | 0.0 | 94 | 729573 | 51.9 | |
| 96 Cyclohexanone | 55 | 9.581 | 9.581 | 0.0 | 90 | 317924 | 0 | |
| 97 1,1,2,2-Tetrachloroethane | 83 | 9.757 | 9.757 | 0.0 | 80 | 191459 | 53.3 | |
| 101 Bromobenzene | 156 | 9.769 | 9.769 | 0.0 | 85 | 209519 | 52.1 | |
| 99 N-Propylbenzene | 91 | 9.800 | 9.800 | 0.0 | 94 | 843608 | 52.0 | |
| 98 trans-1,4-Dichloro-2-butene | 53 | 9.800 | 9.800 | 0.0 | 56 | 245121 | 255.4 | |
| 100 1,2,3-Trichloropropane | 110 | 9.812 | 9.812 | 0.0 | 67 | 61262 | 53.0 | |
| 103 2-Chlorotoluene | 126 | 9.928 | 9.928 | 0.0 | 98 | 201613 | 52.4 | |
| 102 1,3,5-Trimethylbenzene | 105 | 9.964 | 9.964 | 0.0 | 94 | 616681 | 51.2 | |
| 104 3-Chlorotoluene | 126 | 9.988 | 9.988 | 0.0 | 91 | 210806 | 0 | |
| 105 4-Chlorotoluene | 126 | 10.031 | 10.031 | 0.0 | 97 | 220595 | 55.7 | |
| 106 tert-Butylbenzene | 134 | 10.280 | 10.281 | 0.0 | 87 | 152648 | 52.1 | |
| 107 1,2,4-Trimethylbenzene | 105 | 10.329 | 10.329 | 0.0 | 95 | 618464 | 51.1 | |
| 108 Pentachloroethane | 167 | 10.360 | 10.359 | 0.001 | 81 | 96817 | 0 | |
| 109 sec-Butylbenzene | 105 | 10.481 | 10.481 | 0.0 | 93 | 796973 | 52.3 | |
| 110 4-Isopropyltoluene | 119 | 10.603 | 10.603 | 0.0 | 96 | 746574 | 52.9 | |
| 111 1,3-Dichlorobenzene | 146 | 10.639 | 10.639 | 0.0 | 95 | 396210 | 51.6 | |
| 114 Dicyclopentadiene | 66 | 10.712 | 10.718 | -0.006 | 96 | 651611 | 0 | |
| 113 1,4-Dichlorobenzene | 146 | 10.718 | 10.725 | -0.007 | 87 | 398418 | 51.1 | |
| 112 1,2,3-Trimethylbenzene | 105 | 10.731 | 10.731 | 0.0 | 97 | 637379 | 0 | |
| 115 n-Butylbenzene | 91 | 10.974 | 10.974 | 0.0 | 93 | 591392 | 52.7 | |
| 116 1,2-Dichlorobenzene | 146 | 11.065 | 11.065 | 0.0 | 98 | 380942 | 51.8 | |
| 117 1,2-Dibromo-3-Chloropropane | 75 | 11.740 | 11.741 | -0.001 | 84 | 35182 | 54.4 | |
| 118 1,3,5-Trichlorobenzene | 180 | 11.862 | 11.862 | 0.0 | 98 | 294483 | 0 | |
| 119 1,2,4-Trichlorobenzene | 180 | 12.385 | 12.385 | 0.0 | 94 | 265393 | 55.0 | |
| 120 Hexachlorobutadiene | 225 | 12.483 | 12.483 | 0.0 | 95 | 132976 | 52.2 | |
| 121 Naphthalene | 128 | 12.623 | 12.623 | 0.0 | 96 | 734941 | 53.9 | |
| 122 1,2,3-Trichlorobenzene | 180 | 12.842 | 12.842 | 0.0 | 95 | 244822 | 56.2 | |
| S 124 Xylenes, Total | 1 | | | | 0 | | 156.9 | |
| S 125 1,2-Dichloroethene, Total | 1 | | | | 0 | | 104.2 | |
| S 126 1,3-Dichloropropene, Total | 1 | | | | 0 | | 107.4 | |

QC Flag Legend

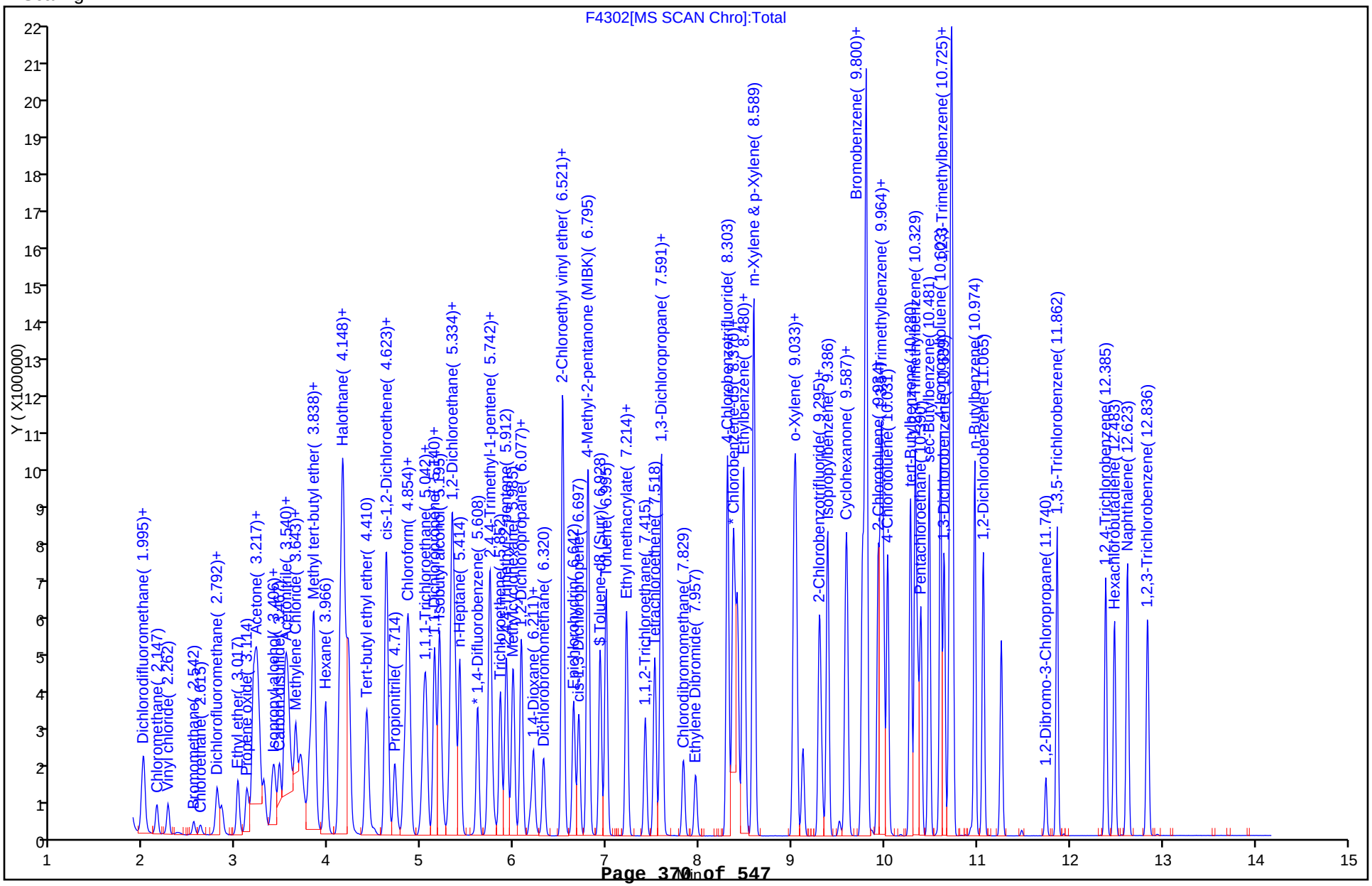
Processing Flags
2 - Failed Coelution Test
E - Exceeded Maximum Amount

Report Date: 14-Dec-2012 11:30:52 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4302.D | | |
| Injection Date: | 13-Dec-2012 23:34:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 6 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-29976-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCSD 480-96180/22-A
Matrix: Solid
Lab File ID: C25371.D
Analysis Method: 8260C
Date Collected:
Sample wt/vol: 5.33(g)
Date Analyzed: 12/17/2012 13:40
Soil Aliquot Vol: 100 (uL)
Dilution Factor: 1
Soil Extract Vol.: 10(mL)
GC Column: ZB-624 (30) ID: 0.53(mm)
% Moisture:
Level: (low/med) Medium
Analysis Batch No.: 96178
Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 107-39-1 | 2,4,4-Trimethyl-1-pentene | 2010 | | 470 | 40 |
| 107-40-4 | 2,4,4-Trimethyl-2-pentene | 3040 | | 470 | 50 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 2037-26-5 | Toluene-d8 (Surr) | 87 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 89 | | 70-130 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 83 | | 70-130 |

Report Date: 17-Dec-2012 14:28:08 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121217-17619.b\C25371.D | | |
| Lims ID: | LCSD 480-96180/22-A | Client ID: | |
| Inject. Date: | 17-Dec-2012 13:40:30 | Dil. Factor: | 1.0000 |
| Sample Type: | LCSD | | |
| Sample ID: | LCSD 480-96180/22-A | | |
| Misc. Info.: | 480-0017619-007 | | |
| Operator: | LH | Instrument ID: | HP5973C |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 57 |
| Lims Batch ID: | 96178 | Lims Sample ID: | 7 |
| Detector: | MS SCAN | | |

| | | | |
|---|---|---|---|
| Method: | \\Bufchrom\ChromData\HP5973C\20121217-17619.b\C-8260.m | | |
| Last Update: | 17-Dec-2012 14:28:07 | Calib Date: | 10-Dec-2012 03:44:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973C\20121208-17365.b\C25063.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK032 | | |

First Level Reviewer: HillL Date: 17-Dec-2012 14:28:07

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 9.588 | 9.588 | 0.0 | 96 | 610923 | 25.0 | |
| * 2 Chlorobenzene-d5 | 82 | 11.971 | 11.971 | 0.0 | 87 | 345916 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 14.011 | 14.011 | 0.0 | 93 | 304214 | 25.0 | |
| $ 4 1,2-Dichloroethane-d4 (Surr) | 67 | 9.339 | 9.339 | 0.0 | 0 | 126333 | 22.2 | |
| $ 5 Toluene-d8 (Surr) | 98 | 10.785 | 10.785 | 0.0 | 94 | 663991 | 21.6 | |
| $ 6 4-Bromofluorobenzene (Surr) | 174 | 12.920 | 12.920 | 0.0 | 82 | 202615 | 20.8 | |
| 10 Dichlorodifluoromethane | 85 | 4.619 | 4.607 | 0.012 | 90 | 484395 | 68.8 | |
| 11 Chlorodifluoromethane | 51 | 4.643 | 4.643 | 0.0 | 78 | 337307 | 0 | |
| 12 Chloromethane | 50 | 5.046 | 5.034 | 0.012 | 89 | 272736 | 27.8 | |
| 13 Vinyl chloride | 62 | 5.236 | 5.235 | 0.001 | 98 | 263816 | 29.6 | |
| 14 Bromomethane | 94 | 5.888 | 5.876 | 0.012 | 88 | 164016 | 25.5 | |
| 15 Chloroethane | 64 | 6.006 | 6.006 | 0.0 | 98 | 166357 | 27.8 | |
| 16 Dichlorofluoromethane | 67 | 6.279 | 6.279 | 0.0 | 97 | 443626 | 0 | |
| 17 Trichlorofluoromethane | 101 | 6.326 | 6.338 | -0.012 | 85 | 317021 | 26.0 | |
| 18 Ethyl ether | 59 | 6.659 | 6.659 | 0.0 | 94 | 228444 | 27.2 | |
| 19 Propene oxide | 58 | 6.813 | 6.801 | 0.012 | 94 | 292308 | 0 | |
| 20 Acrolein | 56 | 6.908 | 6.907 | 0.001 | 97 | 794016 | 554.5 | |
| 21 1,1,2-Trichloro-1,2,2-trifluoroe | 101 | 6.919 | 6.919 | 0.0 | 75 | 208655 | 35.2 | |
| 22 1,1-Dichloroethene | 96 | 7.002 | 6.990 | 0.012 | 81 | 153344 | 23.5 | |
| 23 Acetone | 43 | 7.062 | 7.062 | 0.0 | 99 | 453477 | 122.3 | |
| 24 Isopropyl alcohol | 45 | 7.157 | 7.145 | 0.012 | 99 | 354993 | 0 | |
| 25 Iodomethane | 142 | 7.240 | 7.239 | 0.001 | 97 | 230046 | 25.5 | |
| 26 Carbon disulfide | 76 | 7.323 | 7.322 | 0.001 | 99 | 724772 | 30.6 | |
| 27 Methyl acetate | 43 | 7.346 | 7.346 | 0.0 | 98 | 300171 | 25.9 | |
| 28 3-Chloro-1-propene | 41 | 7.406 | 7.370 | 0.036 | 40 | 1739635 | 124.3 | E |
| 29 Acetonitrile | 40 | 7.406 | 7.405 | 0.001 | 98 | 773423 | 1037.7 | |
| 30 Methylene Chloride | 84 | 7.524 | 7.524 | 0.0 | 94 | 229900 | 24.6 | |
| 31 2-Methyl-2-propanol | 59 | 7.548 | 7.536 | 0.012 | 98 | 651850 | 446.0 | |
| 32 Methyl tert-butyl ether | 73 | 7.690 | 7.690 | 0.0 | 91 | 669043 | 24.7 | |
| 34 trans-1,2-Dichloroethene | 96 | 7.761 | 7.761 | 0.0 | 89 | 215867 | 24.9 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| 33 Acrylonitrile | 53 | 7.773 | 7.773 | 0.0 | 98 | 531674 | 131.2 | |
| 35 Hexane | 57 | 7.904 | 7.892 | 0.012 | 93 | 342968 | 0 | |
| 135 Halothane | 117 | 8.046 | 8.046 | 0.0 | 0 | 92444 | 21.4 | |
| 36 Isopropyl ether | 45 | 8.058 | 8.058 | 0.0 | 94 | 809157 | 26.8 | |
| 37 Vinyl acetate | 43 | 8.105 | 8.093 | 0.012 | 88 | 3158402 | 150.0 | |
| 39 1,1-Dichloroethane | 63 | 8.165 | 8.153 | 0.012 | 83 | 444993 | 25.8 | |
| 38 1,1-Dimethoxyethane | 75 | | 8.153 | | | | | 2 |
| 40 2-Chloro-1,3-butadiene | 53 | 8.212 | 8.212 | 0.0 | 83 | 383758 | 0 | |
| 41 Tert-butyl ethyl ether | 59 | 8.366 | 8.366 | 0.0 | 99 | 779652 | 25.6 | |
| 42 Ethyl acetate | 43 | 8.615 | 8.580 | 0.035 | 92 | 992268 | 0 | |
| 43 2-Butanone (MEK) | 43 | 8.615 | 8.615 | 0.0 | 99 | 992268 | 173.8 | |
| 44 2,2-Dichloropropane | 77 | 8.651 | 8.651 | 0.0 | 86 | 265071 | 24.4 | |
| 45 cis-1,2-Dichloroethene | 96 | 8.651 | 8.651 | 0.0 | 73 | 241444 | 24.5 | |
| 46 Propionitrile | 54 | 8.734 | 8.722 | 0.012 | 98 | 418974 | 252.8 | |
| 47 Methacrylonitrile | 41 | 8.829 | 8.829 | 0.0 | 94 | 181888 | 0 | |
| 48 Chlorobromomethane | 128 | 8.888 | 8.888 | 0.0 | 86 | 120153 | 24.8 | |
| 49 Tetrahydrofuran | 42 | 8.888 | 8.888 | 0.0 | 90 | 453601 | 127.1 | |
| 50 Chloroform | 83 | 8.900 | 8.888 | 0.012 | 82 | 405292 | 24.4 | |
| 51 1,1,1-Trichloroethane | 97 | 9.066 | 9.066 | 0.0 | 91 | 311133 | 24.0 | |
| 52 Cyclohexane | 56 | 9.101 | 9.101 | 0.0 | 94 | 351321 | 28.0 | |
| 53 Isobutyl alcohol | 43 | 9.137 | 9.137 | 0.0 | 92 | 654316 | 0 | |
| 54 1,1-Dichloropropene | 75 | 9.173 | 9.172 | 0.001 | 90 | 323725 | 25.7 | |
| 55 Carbon tetrachloride | 117 | 9.196 | 9.196 | 0.0 | 68 | 286535 | 23.6 | |
| 56 Tert-amyl methyl ether | 73 | 9.327 | 9.327 | 0.0 | 93 | 697759 | 26.4 | |
| 57 Benzene | 78 | 9.374 | 9.374 | 0.0 | 93 | 893490 | 25.4 | |
| 59 n-Heptane | 43 | 9.374 | 9.374 | 0.0 | 92 | 364625 | 28.4 | |
| 58 1,2-Dichloroethane | 62 | 9.398 | 9.398 | 0.0 | 89 | 383587 | 23.7 | |
| 60 n-Butanol | 56 | 9.647 | 9.647 | 0.0 | 80 | 402836 | 0 | |
| 141 2,4,4-Trimethyl-1-pentene | 55 | 9.694 | 9.694 | 0.0 | 0 | 122892 | 21.4 | |
| 140 2,4,4-Trimethyl-2-pentene | 97 | 9.848 | 9.837 | 0.011 | 0 | 514832 | 32.4 | |
| 62 Trichloroethene | 95 | 9.848 | 9.848 | 0.0 | 58 | 232595 | 24.6 | |
| 64 Methylcyclohexane | 83 | 9.979 | 9.979 | 0.0 | 80 | 314779 | 23.9 | |
| 63 Methyl methacrylate | 41 | 9.979 | 9.979 | 0.0 | 90 | 398099 | 39.1 | |
| 65 1,2-Dichloropropane | 63 | 10.062 | 10.050 | 0.012 | 91 | 247662 | 25.4 | |
| 66 1,4-Dioxane | 88 | 10.121 | 10.121 | 0.0 | 95 | 96890 | 889.6 | |
| 67 Dibromomethane | 93 | 10.192 | 10.192 | 0.0 | 84 | 157020 | 23.6 | |
| 68 Dichlorobromomethane | 83 | 10.252 | 10.252 | 0.0 | 92 | 310948 | 23.9 | |
| 69 2-Chloroethyl vinyl ether | 63 | 10.370 | 10.370 | 0.0 | 91 | 943016 | 129.0 | |
| 70 2-Nitropropane | 43 | 10.430 | 10.418 | 0.012 | 92 | 530250 | 120.0 | |
| 71 Epichlorohydrin | 57 | 10.513 | 10.513 | 0.0 | 99 | 639698 | 0 | |
| 77 trans-1,3-Dichloropropene | 75 | 10.572 | 10.572 | 0.0 | 92 | 393540 | 23.6 | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | 10.607 | 10.607 | 0.0 | 97 | 1498403 | 119.2 | |
| 74 Toluene | 92 | 10.833 | 10.833 | 0.0 | 97 | 568193 | 23.7 | |
| 75 Ethyl methacrylate | 69 | 10.904 | 10.904 | 0.0 | 90 | 326648 | 24.1 | |
| 72 cis-1,3-Dichloropropene | 75 | 10.987 | 10.987 | 0.0 | 88 | 372817 | 24.3 | |
| 79 1,1,2-Trichloroethane | 83 | 11.165 | 11.165 | 0.0 | 90 | 172213 | 23.2 | |
| 80 2-Hexanone | 43 | 11.248 | 11.248 | 0.0 | 96 | 1066646 | 117.1 | |
| 81 Tetrachloroethene | 166 | 11.283 | 11.283 | 0.0 | 90 | 235142 | 24.6 | |
| 82 1,3-Dichloropropane | 76 | 11.307 | 11.307 | 0.0 | 90 | 376259 | 23.3 | |
| 83 Chlorodibromomethane | 129 | 11.532 | 11.532 | 0.0 | 90 | 229254 | 22.5 | |
| 84 Ethylene Dibromide | 107 | 11.663 | 11.663 | 0.0 | 98 | 211979 | 22.4 | |
| 85 3-Chlorobenzotrifluoride | 180 | 11.805 | 11.805 | 0.0 | 93 | 305313 | 0 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/L | Flags |
|---|---|---|---|---|---|---|---|---|
| 86 4-Chlorobenzotrifluoride | 180 | 11.841 | 11.841 | 0.0 | 96 | 349929 | 0 | |
| 88 Ethylbenzene | 91 | 11.995 | 11.995 | 0.0 | 93 | 1084365 | 23.5 | |
| 87 Chlorobenzene | 112 | 11.995 | 11.995 | 0.0 | 81 | 600108 | 23.2 | |
| 89 1,1,1,2-Tetrachloroethane | 131 | 12.030 | 12.030 | 0.0 | 75 | 206050 | 22.9 | |
| 90 m-Xylene & p-Xylene | 106 | 12.078 | 12.078 | 0.0 | 99 | 806546 | 47.3 | |
| 91 o-Xylene | 106 | 12.434 | 12.433 | 0.001 | 96 | 393539 | 23.7 | |
| 92 Styrene | 104 | 12.445 | 12.445 | 0.0 | 92 | 655120 | 23.0 | |
| 93 2-Chlorobenzotrifluoride | 180 | 12.600 | 12.600 | 0.0 | 94 | 306450 | 0 | |
| 94 Isopropylbenzene | 105 | 12.695 | 12.694 | 0.0 | 97 | 1045284 | 23.5 | |
| 95 Bromoform | 173 | 12.730 | 12.730 | 0.0 | 93 | 147079 | 21.8 | |
| 96 Cyclohexanone | 55 | 12.932 | 12.932 | 0.0 | 94 | 720749 | 0 | |
| 97 1,1,2,2-Tetrachloroethane | 83 | 13.003 | 13.003 | 0.0 | 82 | 296976 | 23.2 | |
| 98 trans-1,4-Dichloro-2-butene | 53 | 13.027 | 13.026 | 0.001 | 92 | 437543 | 117.6 | |
| 99 N-Propylbenzene | 91 | 13.050 | 13.050 | 0.0 | 98 | 1311618 | 23.8 | |
| 100 1,2,3-Trichloropropane | 110 | 13.086 | 13.086 | 0.0 | 57 | 91922 | 22.7 | |
| 101 Bromobenzene | 156 | 13.121 | 13.121 | 0.0 | 91 | 251495 | 23.4 | |
| 102 1,3,5-Trimethylbenzene | 105 | 13.169 | 13.169 | 0.0 | 91 | 895457 | 23.5 | |
| 103 2-Chlorotoluene | 126 | 13.228 | 13.228 | 0.0 | 94 | 260632 | 26.0 | |
| 104 3-Chlorotoluene | 126 | 13.276 | 13.276 | 0.0 | 94 | 304761 | 0 | |
| 105 4-Chlorotoluene | 126 | 13.311 | 13.323 | -0.012 | 99 | 249108 | 23.6 | |
| 106 tert-Butylbenzene | 134 | 13.513 | 13.513 | 0.0 | 91 | 171308 | 23.4 | |
| 107 1,2,4-Trimethylbenzene | 105 | 13.548 | 13.548 | 0.0 | 72 | 901710 | 23.5 | |
| 108 Pentachloroethane | 167 | 13.643 | 13.643 | 0.0 | 87 | 130659 | 0 | |
| 109 sec-Butylbenzene | 105 | 13.702 | 13.702 | 0.0 | 92 | 1116752 | 23.8 | |
| 110 4-Isopropyltoluene | 119 | 13.809 | 13.809 | 0.0 | 97 | 882771 | 23.6 | |
| 111 1,3-Dichlorobenzene | 146 | 13.952 | 13.951 | 0.001 | 95 | 475402 | 23.2 | |
| 112 1,2,3-Trimethylbenzene | 105 | 13.999 | 13.999 | 0.0 | 95 | 936975 | 0 | |
| 113 1,4-Dichlorobenzene | 146 | 14.035 | 14.034 | 0.001 | 91 | 481095 | 22.9 | |
| 114 Dicyclopentadiene | 66 | 14.058 | 14.058 | 0.0 | 62 | 254190 | 0 | |
| 115 n-Butylbenzene | 91 | 14.224 | 14.224 | 0.0 | 98 | 894743 | 23.9 | |
| 116 1,2-Dichlorobenzene | 146 | 14.461 | 14.461 | 0.0 | 94 | 457717 | 23.3 | |
| 117 1,2-Dibromo-3-Chloropropane | 75 | 15.375 | 15.374 | 0.001 | 64 | 61781 | 20.8 | |
| 118 1,3,5-Trichlorobenzene | 180 | 15.541 | 15.541 | 0.0 | 95 | 357125 | 0 | |
| 119 1,2,4-Trichlorobenzene | 180 | 16.430 | 16.430 | 0.0 | 93 | 343997 | 23.3 | |
| 120 Hexachlorobutadiene | 225 | 16.525 | 16.537 | -0.012 | 93 | 158191 | 23.5 | |
| 121 Naphthalene | 128 | 16.881 | 16.880 | 0.001 | 98 | 892845 | 22.0 | |
| 122 1,2,3-Trichlorobenzene | 180 | 17.260 | 17.272 | -0.012 | 91 | 321720 | 22.7 | |
| S 125 1,2-Dichloroethene, Total | 1 | | | | 0 | | 49.5 | |
| S 126 1,3-Dichloropropene, Total | 1 | | | | 0 | | 47.9 | |
| S 124 Xylenes, Total | 1 | | | | 0 | | 71.0 | |

QC Flag Legend

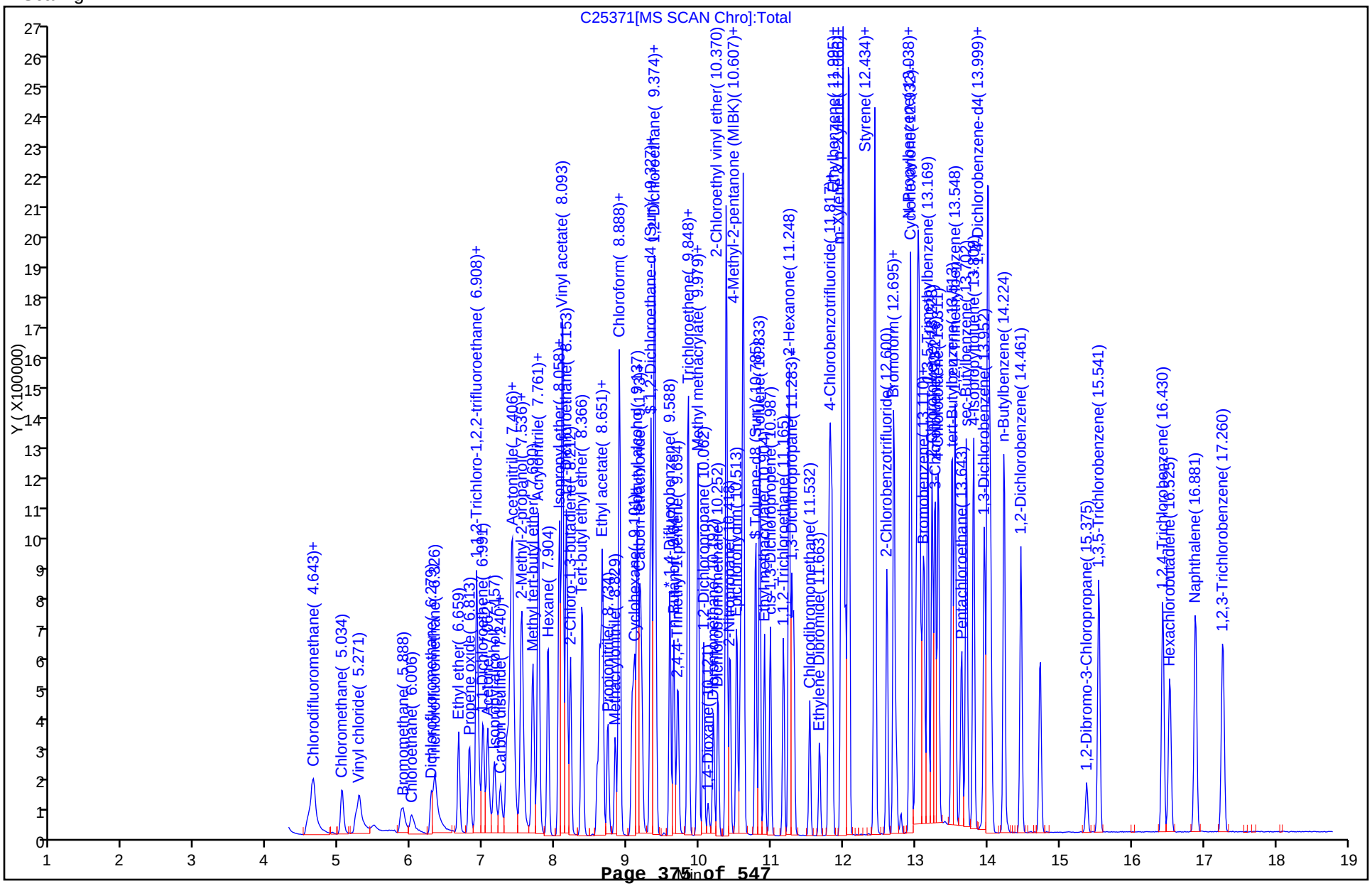
Processing Flags
2 - Failed Coelution Test
E - Exceeded Maximum Amount

Report Date: 17-Dec-2012 14:28:08 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973C\20121217-17619.b\C25371.D | | |
| Injection Date: | 17-Dec-2012 13:40:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | | Instrument ID: | HP5973C |
| Lims Batch ID: | 96178 | Lims Sample ID: | 7 |
| Operator ID: | LH | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-29976-1

SDG No.:

Client Sample ID: OC-SB-491-6.0/8.0-XXX MS | Lab Sample ID: 480-29976-8 MS

Matrix: Solid | Lab File ID: F4312.D

Analysis Method: 8260C | Date Collected: 12/11/2012 13:00

Sample wt/vol: 4.71(g) | Date Analyzed: 12/14/2012 04:33

Soil Aliquot Vol: | Dilution Factor: 1

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

% Moisture: 4.5 | Level: (low/med) Low

Analysis Batch No.: 95715 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 107-39-1 | 2,4,4-Trimethyl-1-pentene | 57.3 | | 5.6 | 0.48 |
| 107-40-4 | 2,4,4-Trimethyl-2-pentene | 60.7 | | 5.6 | 0.59 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 2037-26-5 | Toluene-d8 (Surr) | 88 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 81 | | 70-130 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 84 | | 70-130 |

TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4312.D | | |
| Lims ID: | 480-29976-C-8-B MS | Client ID: | OC-SB-491-6.0/8.0-XMS |
| Inject. Date: | 14-Dec-2012 04:33:30 | Dil. Factor: | 1.0000 |
| Sample Type: | MS | | |
| Sample ID: | 480-29976-C-8-B MS | | |
| Misc. Info.: | 480-0017526-016 =480-0017526-016 | | |
| Operator: | CDC | Instrument ID: | HP5973F |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 8 |
| Lims Batch ID: | 95715 | Lims Sample ID: | 16 |
| Detector: | MS SCAN | | |
| Method: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F-8260 SOIL.m | | |
| Last Update: | 14-Dec-2012 11:30:48 | Calib Date: | 11-Dec-2012 23:36:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4239.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK022 | | |

First Level Reviewer: ByrnesJ Date: 14-Dec-2012 08:54:11

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 5.608 | 5.608 | 0.0 | 92 | 370712 | 50.0 | |
| * 2 Chlorobenzene-d5 | 82 | 8.382 | 8.382 | 0.0 | 70 | 164900 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 10.700 | 10.700 | 0.0 | 91 | 186172 | 50.0 | |
| $ 4 1,2-Dichloroethane-d4 (Surr) | 67 | 5.304 | 5.304 | 0.0 | 94 | 54369 | 40.4 | |
| $ 5 Toluene-d8 (Surr) | 98 | 6.928 | 6.928 | 0.0 | 82 | 438686 | 44.1 | |
| $ 6 4-Bromofluorobenzene (Surr) | 174 | 9.599 | 9.599 | 0.0 | 93 | 147763 | 42.1 | |
| 10 Dichlorodifluoromethane | 85 | 2.001 | 1.995 | 0.006 | 87 | 251495 | 129.0 | |
| 12 Chloromethane | 50 | 2.159 | 2.147 | 0.012 | 88 | 111398 | 50.3 | |
| 13 Vinyl chloride | 62 | 2.281 | 2.268 | 0.013 | 97 | 112567 | 54.4 | |
| 14 Bromomethane | 94 | 2.560 | 2.548 | 0.012 | 87 | 38557 | 51.7 | |
| 15 Chloroethane | 64 | 2.633 | 2.621 | 0.012 | 97 | 38563 | 51.4 | |
| 17 Trichlorofluoromethane | 101 | 2.852 | 2.846 | 0.006 | 84 | 142790 | 59.7 | |
| 18 Ethyl ether | 59 | 3.029 | 3.035 | -0.006 | 91 | 114282 | 50.3 | |
| 21 1,1,2-Trichloro-1,2,2-trifluoroe | 101 | 3.230 | 3.224 | 0.006 | 80 | 263303 | 125.5 | |
| 22 1,1-Dichloroethene | 96 | 3.260 | 3.254 | 0.006 | 84 | 132580 | 55.9 | |
| 23 Acetone | 43 | 3.309 | 3.303 | 0.006 | 98 | 166766 | 159.1 | |
| 26 Carbon disulfide | 76 | 3.479 | 3.467 | 0.012 | 98 | 358919 | 49.5 | |
| 27 Methyl acetate | 43 | 3.534 | 3.528 | 0.006 | 89 | 138876 | 37.8 | |
| 30 Methylene Chloride | 84 | 3.655 | 3.643 | 0.012 | 85 | 149271 | 46.6 | |
| 32 Methyl tert-butyl ether | 73 | 3.808 | 3.801 | 0.007 | 84 | 362460 | 47.4 | |
| 34 trans-1,2-Dichloroethene | 96 | 3.838 | 3.832 | 0.006 | 96 | 150952 | 52.8 | |
| 36 Isopropyl ether | 45 | 4.130 | 4.130 | 0.0 | 73 | 478970 | 51.9 | |
| 39 1,1-Dichloroethane | 63 | 4.179 | 4.173 | 0.006 | 72 | 246376 | 53.3 | |
| 41 Tert-butyl ethyl ether | 59 | 4.416 | 4.416 | 0.0 | 97 | 410962 | 48.3 | |
| 43 2-Butanone (MEK) | 43 | 4.617 | 4.617 | 0.0 | 97 | 419724 | 243.2 | |
| 44 2,2-Dichloropropane | 77 | 4.629 | 4.623 | 0.006 | 76 | 186517 | 52.5 | |
| 45 cis-1,2-Dichloroethene | 96 | 4.635 | 4.629 | 0.006 | 69 | 163325 | 52.3 | |
| 48 Chlorobromomethane | 128 | 4.842 | 4.842 | 0.0 | 89 | 82860 | 50.5 | |
| 49 Tetrahydrofuran | 42 | 4.860 | 4.854 | 0.006 | 92 | 202718 | 176.4 | |
| 50 Chloroform | 83 | 4.878 | 4.872 | 0.006 | 78 | 230633 | 51.4 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 51 1,1,1-Trichloroethane | 97 | 5.024 | 5.018 | 0.006 | 92 | 205992 | 53.8 | |
| 52 Cyclohexane | 56 | 5.055 | 5.049 | 0.006 | 89 | 239732 | 55.4 | |
| 54 1,1-Dichloropropene | 75 | 5.146 | 5.140 | 0.006 | 93 | 189916 | 56.0 | |
| 55 Carbon tetrachloride | 117 | 5.152 | 5.146 | 0.006 | 78 | 183224 | 54.2 | |
| 57 Benzene | 78 | 5.335 | 5.328 | 0.007 | 95 | 556714 | 52.2 | |
| 56 Tert-amyl methyl ether | 73 | 5.341 | 5.347 | -0.006 | 96 | 374236 | 49.9 | |
| 58 1,2-Dichloroethane | 62 | 5.371 | 5.365 | 0.006 | 77 | 164141 | 49.0 | |
| 136 2,4,4-Trimethyl-1-pentene | 55 | 5.736 | 5.736 | 0.0 | 0 | 142461 | 51.6 | |
| 62 Trichloroethene | 95 | 5.858 | 5.852 | 0.006 | 90 | 151355 | 52.6 | |
| 135 2,4,4-Trimethyl-2-pentene | 97 | 5.919 | 5.918 | 0.001 | 0 | 327092 | 54.6 | |
| 64 Methylcyclohexane | 83 | 5.992 | 5.985 | 0.007 | 86 | 251605 | 56.7 | |
| 65 1,2-Dichloropropane | 63 | 6.077 | 6.077 | 0.0 | 95 | 137252 | 51.6 | |
| 66 1,4-Dioxane | 88 | 6.180 | 6.174 | 0.006 | 90 | 56910 | 1150.2 | |
| 67 Dibromomethane | 93 | 6.211 | 6.211 | 0.0 | 88 | 76185 | 47.6 | |
| 68 Dichlorobromomethane | 83 | 6.320 | 6.320 | 0.0 | 93 | 162290 | 50.3 | |
| 72 cis-1,3-Dichloropropene | 75 | 6.703 | 6.697 | 0.006 | 82 | 215887 | 52.1 | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | 6.801 | 6.801 | 0.0 | 95 | 635564 | 185.7 | |
| 74 Toluene | 92 | 6.995 | 6.995 | 0.0 | 92 | 374892 | 51.2 | |
| 77 trans-1,3-Dichloropropene | 75 | 7.220 | 7.214 | 0.006 | 91 | 181964 | 47.9 | |
| 79 1,1,2-Trichloroethane | 83 | 7.415 | 7.415 | 0.0 | 83 | 95170 | 47.3 | |
| 81 Tetrachloroethene | 166 | 7.519 | 7.519 | 0.0 | 91 | 185536 | 55.5 | |
| 82 1,3-Dichloropropane | 76 | 7.585 | 7.585 | 0.0 | 95 | 191532 | 46.4 | |
| 80 2-Hexanone | 43 | 7.592 | 7.592 | 0.0 | 95 | 450423 | 179.0 | |
| 83 Chlorodibromomethane | 129 | 7.829 | 7.829 | 0.0 | 87 | 135439 | 47.9 | |
| 84 Ethylene Dibromide | 107 | 7.963 | 7.957 | 0.006 | 97 | 129176 | 45.6 | |
| 87 Chlorobenzene | 112 | 8.413 | 8.413 | 0.0 | 97 | 452710 | 51.5 | |
| 88 Ethylbenzene | 91 | 8.474 | 8.474 | 0.0 | 97 | 694157 | 51.2 | |
| 89 1,1,1,2-Tetrachloroethane | 131 | 8.492 | 8.492 | 0.0 | 85 | 152419 | 50.6 | |
| 90 m-Xylene & p-Xylene | 106 | 8.589 | 8.589 | 0.0 | 100 | 590596 | 103.2 | |
| 91 o-Xylene | 106 | 9.021 | 9.021 | 0.0 | 94 | 286304 | 51.1 | |
| 92 Styrene | 104 | 9.046 | 9.046 | 0.0 | 95 | 479326 | 51.4 | |
| 95 Bromoform | 173 | 9.319 | 9.319 | 0.0 | 97 | 82209 | 37.8 | |
| 94 Isopropylbenzene | 105 | 9.386 | 9.386 | 0.0 | 94 | 728919 | 51.3 | |
| 97 1,1,2,2-Tetrachloroethane | 83 | 9.757 | 9.757 | 0.0 | 86 | 155191 | 42.8 | |
| 101 Bromobenzene | 156 | 9.769 | 9.769 | 0.0 | 85 | 204322 | 50.3 | |
| 99 N-Propylbenzene | 91 | 9.800 | 9.800 | 0.0 | 96 | 827458 | 50.5 | |
| 100 1,2,3-Trichloropropane | 110 | 9.812 | 9.812 | 0.0 | 47 | 49296 | 42.2 | |
| 103 2-Chlorotoluene | 126 | 9.928 | 9.928 | 0.0 | 98 | 199989 | 51.5 | |
| 102 1,3,5-Trimethylbenzene | 105 | 9.958 | 9.964 | -0.006 | 95 | 614856 | 50.5 | |
| 105 4-Chlorotoluene | 126 | 10.031 | 10.031 | 0.0 | 96 | 220741 | 55.2 | |
| 106 tert-Butylbenzene | 134 | 10.280 | 10.281 | 0.0 | 87 | 153068 | 51.7 | |
| 107 1,2,4-Trimethylbenzene | 105 | 10.329 | 10.329 | 0.0 | 94 | 614514 | 50.3 | |
| 109 sec-Butylbenzene | 105 | 10.481 | 10.481 | 0.0 | 92 | 788078 | 51.2 | |
| 110 4-Isopropyltoluene | 119 | 10.603 | 10.603 | 0.0 | 95 | 736392 | 51.6 | |
| 111 1,3-Dichlorobenzene | 146 | 10.639 | 10.639 | 0.0 | 90 | 387472 | 49.9 | |
| 113 1,4-Dichlorobenzene | 146 | 10.725 | 10.725 | 0.0 | 87 | 387208 | 49.2 | |
| 115 n-Butylbenzene | 91 | 10.974 | 10.974 | 0.0 | 93 | 572031 | 50.5 | |
| 116 1,2-Dichlorobenzene | 146 | 11.065 | 11.065 | 0.0 | 99 | 366679 | 49.3 | |
| 117 1,2-Dibromo-3-Chloropropane | 75 | 11.741 | 11.741 | 0.0 | 77 | 24170 | 37.0 | |
| 119 1,2,4-Trichlorobenzene | 180 | 12.385 | 12.385 | 0.0 | 94 | 251385 | 51.5 | |
| 120 Hexachlorobutadiene | 225 | 12.483 | 12.483 | 0.0 | 95 | 114418 | 44.5 | |
| 121 Naphthalene | 128 | 12.623 | 12.623 | 0.0 | 96 | 581936 | 42.2 | |

Report Date: 21-Dec-2012 11:20:49 Chrom Revision: 2.0 22-Oct-2012 16:30:48
Data File: \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4312.D

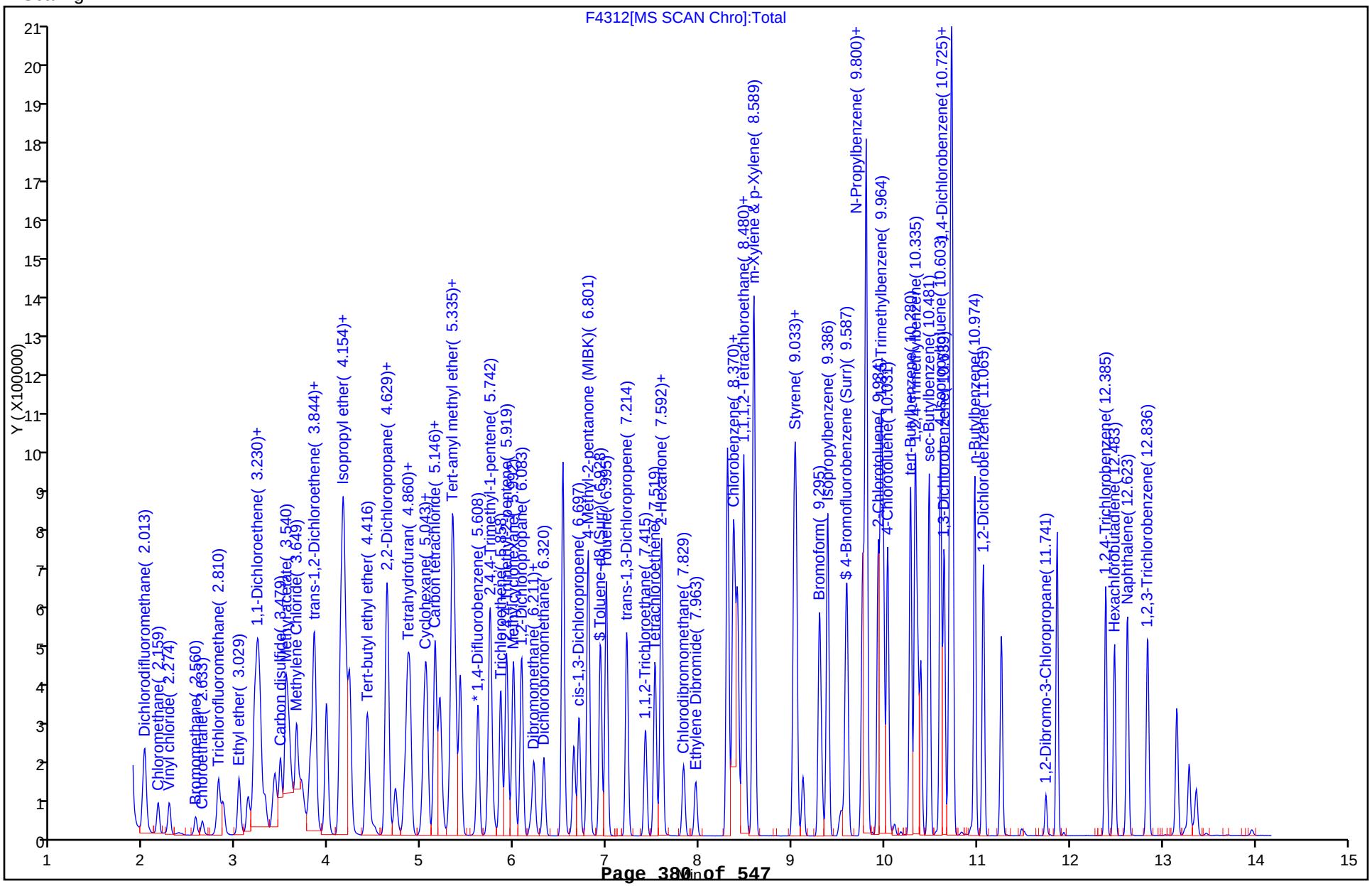
| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 122 1,2,3-Trichlorobenzene | 180 | 12.842 | 12.842 | 0.0 | 95 | 221358 | 50.3 | |

Report Date: 21-Dec-2012 11:20:49 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4312.D | | |
| Injection Date: | 14-Dec-2012 04:33:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-491-6.0/8.0-XMS | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 16 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-29976-1
SDG No.:
Client Sample ID: OC-SB-491-6.0/8.0-XXX MSD
Lab Sample ID: 480-29976-8 MSD
Matrix: Solid
Lab File ID: F4313.D
Analysis Method: 8260C
Date Collected: 12/11/2012 13:00
Sample wt/vol: 4.84(g)
Date Analyzed: 12/14/2012 04:58
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture: 4.5
Level: (low/med) Low
Analysis Batch No.: 95715
Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 107-39-1 | 2,4,4-Trimethyl-1-pentene | 52.7 | | 5.4 | 0.46 |
| 107-40-4 | 2,4,4-Trimethyl-2-pentene | 52.3 | | 5.4 | 0.57 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 2037-26-5 | Toluene-d8 (Surr) | 87 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 80 | | 70-130 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 83 | | 70-130 |

Report Date: 21-Dec-2012 11:20:55 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4313.D | | |
| Lims ID: | 480-29976-D-8-A MSD | Client ID: | OC-SB-491-6.0/8.0-MSD |
| Inject. Date: | 14-Dec-2012 04:58:30 | Dil. Factor: | 1.0000 |
| Sample Type: | MSD | | |
| Sample ID: | 480-29976-D-8-A MSD | | |
| Misc. Info.: | 480-0017526-017 =480-0017526-017 | | |
| Operator: | CDC | Instrument ID: | HP5973F |
| Purge Vol: | 5.000 mL | ALS Bottle#: | 9 |
| Lims Batch ID: | 95715 | Lims Sample ID: | 17 |
| Detector: | MS SCAN | | |

| | | | |
|---|---|---|---|
| Method: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F-8260 SOIL.m | | |
| Last Update: | 14-Dec-2012 11:30:48 | Calib Date: | 11-Dec-2012 23:36:30 |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Bufchrom\ChromData\HP5973F\20121211-17433.b\F4239.D | | |
| Limit Group: | MV - 8260MCP_RCP | | |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |
| Process Host: | XAWRK022 | | |

First Level Reviewer: ByrnesJ Date: 14-Dec-2012 08:54:29

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 1,4-Difluorobenzene | 114 | 5.608 | 5.608 | 0.0 | 93 | 369915 | 50.0 | |
| * 2 Chlorobenzene-d5 | 82 | 8.382 | 8.382 | 0.0 | 70 | 163798 | 50.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 10.700 | 10.700 | 0.0 | 90 | 187015 | 50.0 | |
| $ 4 1,2-Dichloroethane-d4 (Surr) | 67 | 5.304 | 5.304 | 0.0 | 93 | 53669 | 40.0 | |
| $ 5 Toluene-d8 (Surr) | 98 | 6.928 | 6.928 | 0.0 | 82 | 427922 | 43.3 | |
| $ 6 4-Bromofluorobenzene (Surr) | 174 | 9.599 | 9.599 | 0.0 | 93 | 145074 | 41.6 | |
| 10 Dichlorodifluoromethane | 85 | 1.995 | 1.995 | 0.0 | 87 | 231856 | 119.1 | |
| 12 Chloromethane | 50 | 2.153 | 2.147 | 0.006 | 88 | 104375 | 47.2 | |
| 13 Vinyl chloride | 62 | 2.274 | 2.268 | 0.006 | 84 | 104699 | 50.7 | |
| 14 Bromomethane | 94 | 2.554 | 2.548 | 0.006 | 88 | 36401 | 49.0 | |
| 15 Chloroethane | 64 | 2.627 | 2.621 | 0.006 | 93 | 35966 | 48.0 | |
| 17 Trichlorofluoromethane | 101 | 2.852 | 2.846 | 0.006 | 84 | 132576 | 55.6 | |
| 18 Ethyl ether | 59 | 3.029 | 3.035 | -0.006 | 91 | 109749 | 48.4 | |
| 21 1,1,2-Trichloro-1,2,2-trifluoroe | 101 | 3.223 | 3.224 | -0.001 | 80 | 239608 | 114.4 | |
| 22 1,1-Dichloroethene | 96 | 3.254 | 3.254 | 0.0 | 93 | 125037 | 52.8 | |
| 23 Acetone | 43 | 3.309 | 3.303 | 0.006 | 100 | 162702 | 155.6 | |
| 26 Carbon disulfide | 76 | 3.473 | 3.467 | 0.006 | 98 | 346192 | 47.8 | |
| 27 Methyl acetate | 43 | 3.528 | 3.528 | 0.0 | 95 | 137809 | 37.6 | |
| 30 Methylene Chloride | 84 | 3.649 | 3.643 | 0.006 | 82 | 143124 | 44.8 | |
| 32 Methyl tert-butyl ether | 73 | 3.807 | 3.801 | 0.006 | 88 | 353827 | 46.4 | |
| 34 trans-1,2-Dichloroethene | 96 | 3.838 | 3.832 | 0.006 | 96 | 144273 | 50.6 | |
| 36 Isopropyl ether | 45 | 4.124 | 4.130 | -0.006 | 81 | 463090 | 50.3 | |
| 39 1,1-Dichloroethane | 63 | 4.172 | 4.173 | -0.001 | 69 | 235151 | 50.9 | |
| 41 Tert-butyl ethyl ether | 59 | 4.410 | 4.416 | -0.006 | 97 | 404487 | 47.6 | |
| 43 2-Butanone (MEK) | 43 | 4.617 | 4.617 | 0.0 | 97 | 411422 | 238.9 | |
| 44 2,2-Dichloropropane | 77 | 4.623 | 4.623 | 0.0 | 79 | 176520 | 49.8 | |
| 45 cis-1,2-Dichloroethene | 96 | 4.635 | 4.629 | 0.006 | 69 | 156818 | 50.3 | |
| 48 Chlorobromomethane | 128 | 4.842 | 4.842 | 0.0 | 88 | 80215 | 49.0 | |
| 49 Tetrahydrofuran | 42 | 4.860 | 4.854 | 0.006 | 92 | 200085 | 174.5 | |
| 50 Chloroform | 83 | 4.872 | 4.872 | 0.0 | 81 | 222384 | 49.7 | |

| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 51 1,1,1-Trichloroethane | 97 | 5.024 | 5.018 | 0.006 | 91 | 193708 | 50.7 | |
| 52 Cyclohexane | 56 | 5.048 | 5.049 | -0.001 | 89 | 225616 | 52.3 | |
| 54 1,1-Dichloropropene | 75 | 5.140 | 5.140 | 0.0 | 94 | 178899 | 52.9 | |
| 55 Carbon tetrachloride | 117 | 5.152 | 5.146 | 0.006 | 78 | 172410 | 51.1 | |
| 57 Benzene | 78 | 5.328 | 5.328 | 0.0 | 96 | 534710 | 50.3 | |
| 56 Tert-amyl methyl ether | 73 | 5.340 | 5.347 | -0.007 | 95 | 365803 | 48.9 | |
| 58 1,2-Dichloroethane | 62 | 5.365 | 5.365 | 0.0 | 83 | 160482 | 48.0 | |
| 136 2,4,4-Trimethyl-1-pentene | 55 | 5.742 | 5.736 | 0.006 | 0 | 134371 | 48.8 | |
| 62 Trichloroethene | 95 | 5.852 | 5.852 | 0.0 | 90 | 144737 | 50.4 | |
| 135 2,4,4-Trimethyl-2-pentene | 97 | 5.918 | 5.918 | 0.0 | 0 | 288727 | 48.4 | |
| 64 Methylcyclohexane | 83 | 5.991 | 5.985 | 0.006 | 86 | 231738 | 52.3 | |
| 65 1,2-Dichloropropane | 63 | 6.077 | 6.077 | 0.0 | 93 | 133352 | 50.3 | |
| 66 1,4-Dioxane | 88 | 6.180 | 6.174 | 0.006 | 90 | 59738 | 1215.5 | |
| 67 Dibromomethane | 93 | 6.210 | 6.211 | -0.001 | 84 | 74818 | 46.8 | |
| 68 Dichlorobromomethane | 83 | 6.320 | 6.320 | 0.0 | 92 | 158471 | 49.2 | |
| 72 cis-1,3-Dichloropropene | 75 | 6.697 | 6.697 | 0.0 | 80 | 209916 | 50.8 | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | 6.801 | 6.801 | 0.0 | 95 | 621966 | 183.0 | |
| 74 Toluene | 92 | 6.995 | 6.995 | 0.0 | 92 | 359338 | 49.4 | |
| 77 trans-1,3-Dichloropropene | 75 | 7.220 | 7.214 | 0.006 | 92 | 179312 | 47.5 | |
| 79 1,1,2-Trichloroethane | 83 | 7.415 | 7.415 | 0.0 | 84 | 92038 | 46.0 | |
| 81 Tetrachloroethene | 166 | 7.518 | 7.519 | -0.001 | 91 | 175519 | 52.8 | |
| 82 1,3-Dichloropropane | 76 | 7.585 | 7.585 | 0.0 | 96 | 190760 | 46.6 | |
| 80 2-Hexanone | 43 | 7.591 | 7.592 | -0.001 | 95 | 438216 | 175.3 | |
| 83 Chlorodibromomethane | 129 | 7.829 | 7.829 | 0.0 | 87 | 133010 | 47.4 | |
| 84 Ethylene Dibromide | 107 | 7.963 | 7.957 | 0.005 | 97 | 125936 | 44.7 | |
| 87 Chlorobenzene | 112 | 8.413 | 8.413 | 0.0 | 97 | 436428 | 49.9 | |
| 88 Ethylbenzene | 91 | 8.474 | 8.474 | 0.0 | 97 | 665290 | 49.4 | |
| 89 1,1,1,2-Tetrachloroethane | 131 | 8.492 | 8.492 | 0.0 | 88 | 148903 | 49.8 | |
| 90 m-Xylene & p-Xylene | 106 | 8.589 | 8.589 | 0.0 | 100 | 559656 | 98.4 | |
| 91 o-Xylene | 106 | 9.021 | 9.021 | 0.0 | 94 | 273988 | 49.2 | |
| 92 Styrene | 104 | 9.045 | 9.046 | -0.001 | 95 | 461659 | 49.9 | |
| 95 Bromoform | 173 | 9.319 | 9.319 | 0.0 | 97 | 81006 | 37.5 | |
| 94 Isopropylbenzene | 105 | 9.386 | 9.386 | 0.0 | 94 | 688435 | 48.3 | |
| 97 1,1,2,2-Tetrachloroethane | 83 | 9.757 | 9.757 | 0.0 | 78 | 152539 | 41.8 | |
| 101 Bromobenzene | 156 | 9.769 | 9.769 | 0.0 | 86 | 197210 | 48.3 | |
| 99 N-Propylbenzene | 91 | 9.800 | 9.800 | 0.0 | 96 | 784330 | 47.7 | |
| 100 1,2,3-Trichloropropane | 110 | 9.812 | 9.812 | 0.0 | 82 | 48199 | 41.1 | |
| 103 2-Chlorotoluene | 126 | 9.928 | 9.928 | 0.0 | 98 | 191065 | 48.9 | |
| 102 1,3,5-Trimethylbenzene | 105 | 9.958 | 9.964 | -0.006 | 95 | 581249 | 47.6 | |
| 105 4-Chlorotoluene | 126 | 10.031 | 10.031 | 0.0 | 96 | 209887 | 52.2 | |
| 106 tert-Butylbenzene | 134 | 10.280 | 10.281 | 0.0 | 88 | 142370 | 47.9 | |
| 107 1,2,4-Trimethylbenzene | 105 | 10.329 | 10.329 | 0.0 | 92 | 584150 | 47.6 | |
| 109 sec-Butylbenzene | 105 | 10.481 | 10.481 | 0.0 | 93 | 733824 | 47.5 | |
| 110 4-Isopropyltoluene | 119 | 10.603 | 10.603 | 0.0 | 94 | 685427 | 47.8 | |
| 111 1,3-Dichlorobenzene | 146 | 10.639 | 10.639 | 0.0 | 95 | 374386 | 48.0 | |
| 113 1,4-Dichlorobenzene | 146 | 10.724 | 10.725 | -0.001 | 87 | 372943 | 47.1 | |
| 115 n-Butylbenzene | 91 | 10.974 | 10.974 | 0.0 | 93 | 527168 | 46.3 | |
| 116 1,2-Dichlorobenzene | 146 | 11.065 | 11.065 | 0.0 | 98 | 357554 | 47.9 | |
| 117 1,2-Dibromo-3-Chloropropane | 75 | 11.740 | 11.741 | -0.001 | 79 | 24090 | 36.7 | |
| 119 1,2,4-Trichlorobenzene | 180 | 12.385 | 12.385 | 0.0 | 94 | 236627 | 48.3 | |
| 120 Hexachlorobutadiene | 225 | 12.483 | 12.483 | 0.0 | 94 | 99452 | 38.5 | |
| 121 Naphthalene | 128 | 12.623 | 12.623 | 0.0 | 96 | 573354 | 41.4 | |

Report Date: 21-Dec-2012 11:20:55 Chrom Revision: 2.0 22-Oct-2012 16:30:48
Data File: \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4313.D

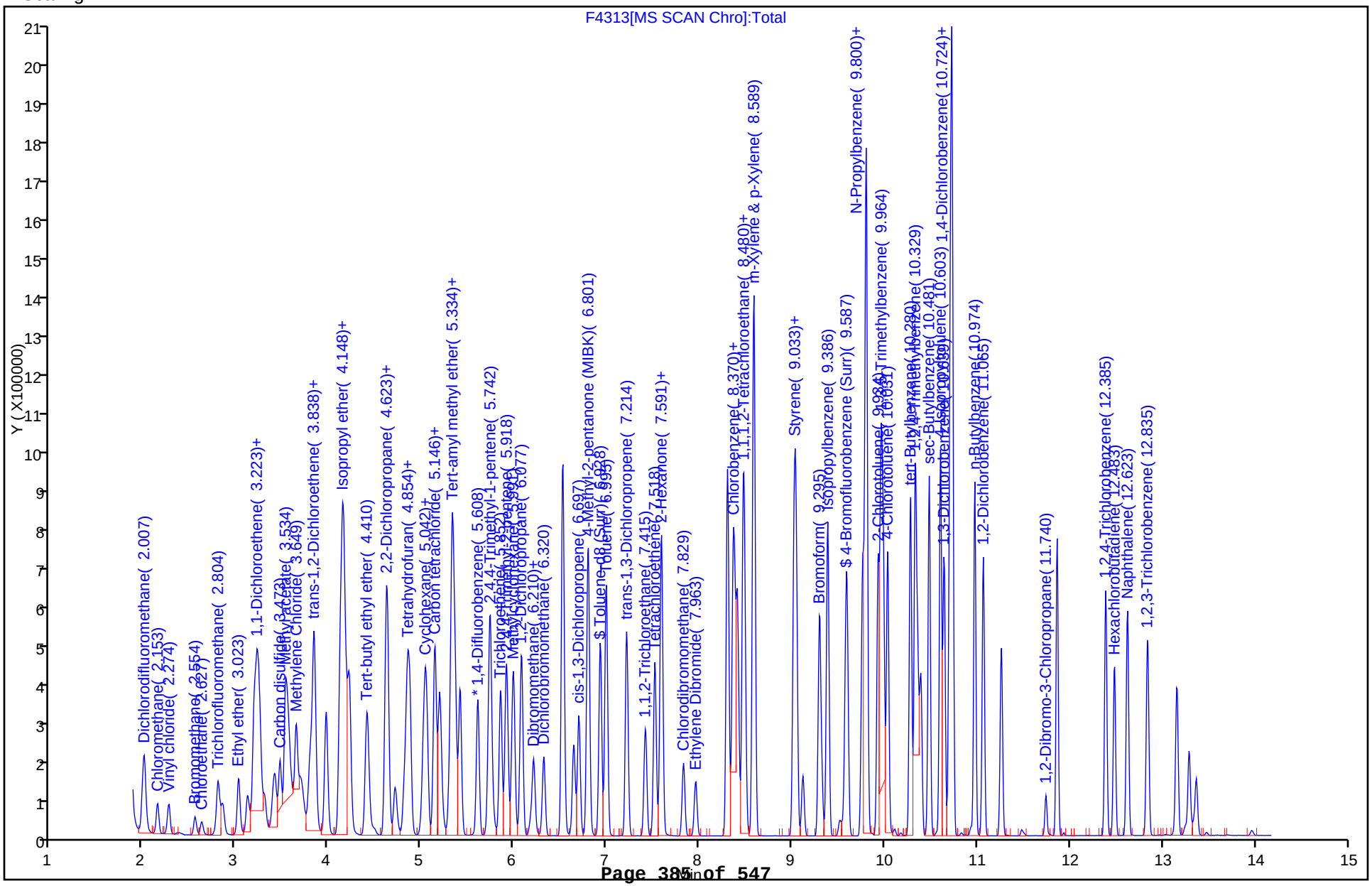
| Compound | Sig | RT | ADJ RT | DLT RT | Q | Response | On-Col Amt ug/kg | Flags |
|---|---|---|---|---|---|---|---|---|
| 122 1,2,3-Trichlorobenzene | 180 | 12.842 | 12.842 | 0.0 | 95 | 212602 | 48.1 | |

Report Date: 21-Dec-2012 11:20:55 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Buffalo

| | | | |
|---|---|---|---|
| Data File: | \\Bufchrom\ChromData\HP5973F\20121213-17526.b\F4313.D | | |
| Injection Date: | 14-Dec-2012 04:58:30 | Limit Group: | MV - 8260MCP_RCP |
| Client ID: | OC-SB-491-6.0/8.0-MSD | Instrument ID: | HP5973F |
| Lims Batch ID: | 95715 | Lims Sample ID: | 17 |
| Operator ID: | CDC | Purge Vol: | 5.000 mL |
| Column Type: | ZB-624 | Column Dia: | 0.25 mm |

Y Scaling:



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Instrument ID: HP5973C Start Date: 12/09/2012 19:14

Analysis Batch Number: 94870 End Date: 12/10/2012 03:44

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| BFB 480-94870/1 | | 12/09/2012 19:14 | 1 | C25043.D | ZB-624 (30) 0.53(mm) |
| IC 480-94870/3 | | 12/09/2012 20:11 | 1 | C25045.D | ZB-624 (30) 0.53(mm) |
| IC 480-94870/5 | | 12/09/2012 21:01 | 1 | C25047.D | ZB-624 (30) 0.53(mm) |
| IC 480-94870/6 | | 12/09/2012 21:26 | 1 | C25048.D | ZB-624 (30) 0.53(mm) |
| IC 480-94870/7 | | 12/09/2012 21:52 | 1 | C25049.D | ZB-624 (30) 0.53(mm) |
| ICIS 480-94870/8 | | 12/09/2012 22:17 | 1 | C25050.D | ZB-624 (30) 0.53(mm) |
| IC 480-94870/9 | | 12/09/2012 22:42 | 1 | C25051.D | ZB-624 (30) 0.53(mm) |
| IC 480-94870/10 | | 12/09/2012 23:07 | 1 | C25052.D | ZB-624 (30) 0.53(mm) |
| ICV 480-94870/12 | | 12/09/2012 23:58 | 1 | | ZB-624 (30) 0.53(mm) |
| MDLV 480-94870/14 | | 12/10/2012 00:48 | 1 | | ZB-624 (30) 0.53(mm) |
| IC 480-94870/16 | | 12/10/2012 01:38 | 1 | C25058.D | ZB-624 (30) 0.53(mm) |
| IC 480-94870/17 | | 12/10/2012 02:03 | 1 | C25059.D | ZB-624 (30) 0.53(mm) |
| IC 480-94870/18 | | 12/10/2012 02:28 | 1 | C25060.D | ZB-624 (30) 0.53(mm) |
| IC 480-94870/19 | | 12/10/2012 02:53 | 1 | C25061.D | ZB-624 (30) 0.53(mm) |
| IC 480-94870/20 | | 12/10/2012 03:18 | 1 | C25062.D | ZB-624 (30) 0.53(mm) |
| IC 480-94870/21 | | 12/10/2012 03:44 | 1 | C25063.D | ZB-624 (30) 0.53(mm) |

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Instrument ID: HP5973C Start Date: 12/17/2012 11:11

Analysis Batch Number: 96178 End Date: 12/17/2012 15:08

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| BFB 480-96178/1 | | 12/17/2012 11:11 | 1 | C25367.D | ZB-624 (30) 0.53(mm) |
| CCVIS 480-96178/2 | | 12/17/2012 11:43 | 1 | C25368.D | ZB-624 (30) 0.53(mm) |
| CCV 480-96178/3 | | 12/17/2012 12:27 | 1 | C25369.D | ZB-624 (30) 0.53(mm) |
| LCS 480-96180/1-A | | 12/17/2012 13:15 | 1 | C25370.D | ZB-624 (30) 0.53(mm) |
| LCSD 480-96180/22-A | | 12/17/2012 13:40 | 1 | C25371.D | ZB-624 (30) 0.53(mm) |
| MB 480-96180/2-A | | 12/17/2012 14:31 | 1 | C25373.D | ZB-624 (30) 0.53(mm) |
| 480-29976-7 DL | OC-SB-486-8.0/10-XXX DL | 12/17/2012 15:08 | 1 | C25374.D | ZB-624 (30) 0.53(mm) |

8260C

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Instrument ID: HP5973F Start Date: 12/11/2012 15:25

Analysis Batch Number: 95189 End Date: 12/11/2012 23:36

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| BFB 480-95189/2 | | 12/11/2012 15:25 | 1 | F4221.D | ZB-624 (60) 0.25(mm) |
| STD1 480-95189/3 IC | | 12/11/2012 15:52 | 1 | F4222.D | ZB-624 (60) 0.25(mm) |
| STD2 480-95189/4 IC | | 12/11/2012 16:17 | 1 | F4223.D | ZB-624 (60) 0.25(mm) |
| STD3 480-95189/5 IC | | 12/11/2012 16:43 | 1 | F4224.D | ZB-624 (60) 0.25(mm) |
| STD4 480-95189/6 IC | | 12/11/2012 17:08 | 1 | F4225.D | ZB-624 (60) 0.25(mm) |
| STD5 480-95189/7 ICIS | | 12/11/2012 17:34 | 1 | F4226.D | ZB-624 (60) 0.25(mm) |
| STD6 480-95189/8 IC | | 12/11/2012 17:59 | 1 | F4227.D | ZB-624 (60) 0.25(mm) |
| STD7 480-95189/9 IC | | 12/11/2012 18:24 | 1 | F4228.D | ZB-624 (60) 0.25(mm) |
| STD8 480-95189/10 IC | | 12/11/2012 18:50 | 1 | F4229.D | ZB-624 (60) 0.25(mm) |
| STD9 480-95189/11 IC | | 12/11/2012 19:15 | 1 | F4230.D | ZB-624 (60) 0.25(mm) |
| STD11 480-95189/13 IC | | 12/11/2012 20:07 | 1 | F4232.D | ZB-624 (60) 0.25(mm) |
| STD12 480-95189/14 IC | | 12/11/2012 20:32 | 1 | F4233.D | ZB-624 (60) 0.25(mm) |
| STD13 480-95189/15 IC | | 12/11/2012 20:57 | 1 | F4234.D | ZB-624 (60) 0.25(mm) |
| STD14 480-95189/16 IC | | 12/11/2012 21:23 | 1 | F4235.D | ZB-624 (60) 0.25(mm) |
| MDLV 480-95189/18 | | 12/11/2012 22:14 | 1 | | ZB-624 (60) 0.25(mm) |
| ICV 480-95189/19 | | 12/11/2012 22:39 | 1 | | ZB-624 (60) 0.25(mm) |
| STD10 480-95189/20 IC | | 12/11/2012 23:36 | 1 | F4239.D | ZB-624 (60) 0.25(mm) |

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Instrument ID: HP5973F Start Date: 12/13/2012 21:33

Analysis Batch Number: 95715 End Date: 12/14/2012 08:48

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| BFB 480-95715/2 | | 12/13/2012 21:33 | 1 | F4298.D | ZB-624 (60) 0.25(mm) |
| CCVIS 480-95715/3 | | 12/13/2012 22:01 | 1 | F4299.D | ZB-624 (60) 0.25(mm) |
| CCV 480-95715/4 | | 12/13/2012 22:42 | 1 | F4300.D | ZB-624 (60) 0.25(mm) |
| LCS 480-95715/5 | | 12/13/2012 23:08 | 1 | F4301.D | ZB-624 (60) 0.25(mm) |
| LCSD 480-95715/6 | | 12/13/2012 23:34 | 1 | F4302.D | ZB-624 (60) 0.25(mm) |
| MB 480-95715/8 | | 12/14/2012 00:25 | 1 | F4304.D | ZB-624 (60) 0.25(mm) |
| ZZZZZ | | 12/14/2012 01:33 | 1 | | ZB-624 (60) 0.25(mm) |
| ZZZZZ | | 12/14/2012 01:59 | 1 | | ZB-624 (60) 0.25(mm) |
| ZZZZZ | | 12/14/2012 02:25 | 1 | | ZB-624 (60) 0.25(mm) |
| 480-29976-5 | OC-SB-480-6.0/8.0-XXX | 12/14/2012 02:50 | 1 | F4308.D | ZB-624 (60) 0.25(mm) |
| 480-29976-6 | OC-SB-484-5.5/7.5-XXX | 12/14/2012 03:16 | 1 | F4309.D | ZB-624 (60) 0.25(mm) |
| 480-29976-7 | OC-SB-486-8.0/10-XXX | 12/14/2012 03:41 | 1 | F4310.D | ZB-624 (60) 0.25(mm) |
| 480-29976-8 | OC-SB-491-6.0/8.0-XXX | 12/14/2012 04:08 | 1 | F4311.D | ZB-624 (60) 0.25(mm) |
| 480-29976-8 MS | OC-SB-491-6.0/8.0-XXX MS | 12/14/2012 04:33 | 1 | F4312.D | ZB-624 (60) 0.25(mm) |
| 480-29976-8 MSD | OC-SB-491-6.0/8.0-XXX MSD | 12/14/2012 04:58 | 1 | F4313.D | ZB-624 (60) 0.25(mm) |
| PIBLK 480-95715/27 | | 12/14/2012 05:24 | 1 | | ZB-624 (60) 0.25(mm) |
| 480-29976-9 | OC-DUP-3 | 12/14/2012 05:49 | 1 | F4315.D | ZB-624 (60) 0.25(mm) |
| ZZZZZ | | 12/14/2012 06:15 | 1 | | ZB-624 (60) 0.25(mm) |
| ZZZZZ | | 12/14/2012 06:41 | 1 | | ZB-624 (60) 0.25(mm) |
| ZZZZZ | | 12/14/2012 07:06 | 1 | | ZB-624 (60) 0.25(mm) |
| ZZZZZ | | 12/14/2012 07:31 | 1 | | ZB-624 (60) 0.25(mm) |
| ZZZZZ | | 12/14/2012 07:57 | 1 | | ZB-624 (60) 0.25(mm) |
| ZZZZZ | | 12/14/2012 08:22 | 1 | | ZB-624 (60) 0.25(mm) |
| ZZZZZ | | 12/14/2012 08:48 | 1 | | ZB-624 (60) 0.25(mm) |

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Batch Number: 95742 Batch Start Date: 12/14/12 00:35 Batch Analyst: Cwiklinski, Charles D

Batch Method: 5035 Batch End Date: 12/14/12 02:00

| Lab Sample ID | Client Sample ID | Method Chain | Basis | TareWeight | Vial&SampleWt | InitialAmount | FinalAmount | | |
|---|---|---|---|---|---|---|---|---|---|
| 480-29976-C-5 | OC-SB-480-6.0/8.0-XXX | 5035, 8260C | T | 29.89 g | 35.37 g | 5.48 g | 5 mL | | |
| 480-29976-C-6 | OC-SB-484-5.5/7.5-XXX | 5035, 8260C | T | 29.94 g | 36.54 g | 6.6 g | 5 mL | | |
| 480-29976-C-7 | OC-SB-486-8.0/10-XXX | 5035, 8260C | T | 29.48 g | 35.04 g | 5.56 g | 5 mL | | |
| 480-29976-C-8 | OC-SB-491-6.0/8.0-XXX | 5035, 8260C | T | 30.04 g | 35.36 g | 5.32 g | 5 mL | | |
| 480-29976-C-8 MS | OC-SB-491-6.0/8.0-XXX | 5035, 8260C | T | 29.81 g | 34.52 g | 4.71 g | 5 mL | | |
| 480-29976-D-8 MSD | OC-SB-491-6.0/8.0-XXX | 5035, 8260C | T | 29.93 g | 34.77 g | 4.84 g | 5 mL | | |
| 480-29976-C-9 | OC-DUP-3 | 5035, 8260C | T | 29.50 g | 34.87 g | 5.37 g | 5 mL | | |

| Batch Notes | |
|---|---|
| | |

| Basis | Basis Description |
|---|---|
| T | Total/NA |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo  Job No.: 480-29976-1

SDG No.:

Batch Number: 96180  Batch Start Date: 12/17/12 12:56  Batch Analyst: Hill, Leah

Batch Method: 5035  Batch End Date:

| Lab Sample ID | Client Sample ID | Method Chain | Basis | TareWeight | Vial&SampleWt | InitialAmount | FinalAmount | | |
|---|---|---|---|---|---|---|---|---|---|
| LCS 480-96180/1 | | 5035, 8260C | | 29.00 g | 34.00 g | 5 g | 10 mL | | |
| MB 480-96180/2 | | 5035, 8260C | | 29.50 g | 34.66 g | 5.16 g | 10 mL | | |
| 480-29976-B-7 | OC-SB-486-8.0/10 -XXX | 5035, 8260C | T | 31.304 g | 40.98 g | 9.676 g | 10 mL | | |
| LCSD 480-96180/22 | | 5035, 8260C | | 29.45 g | 34.78 g | 5.33 g | 10 mL | | |

| Batch Notes | |
|---|---|
| | |

| Basis | Basis Description |
|---|---|
| T | Total/NA |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# Method 7199

## Chromium, Hexavalent (IC) by Method 7199

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Irvine Job No.: 480-29976-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: Info 2_TAIIRV167_Hex

Lab ID: LCS 440-77069/2-A Client ID:

| COMPOUND | SPIKE ADDED (mg/Kg) | LCS CONCENTRATION (mg/Kg) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Cr (VI) | 16.0 | 12.6 | 79 | 65-110 | |

# Column to be used to flag recovery and RPD values

FORM III 7199

FORM III
HPLC/IC MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Irvine Job No.: 480-29976-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: Info 2_TAIIRV167_Hex

Lab ID: 480-29976-2 MS Client ID: OC-SB-504-7.5/9.5-XXX MS

| COMPOUND | SPIKE ADDED (mg/Kg) | SAMPLE CONCENTRATION (mg/Kg) | MS CONCENTRATION (mg/Kg) | MS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|---|
| Cr (VI) | 20.6 | ND | 15.6 | 76 | 55-110 | |

# Column to be used to flag recovery and RPD values

FORM III 7199

FORM III
HPLC/IC MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Irvine Job No.: 480-29976-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: Info 2_TAIIRV167_Hex

Lab ID: 480-29976-2 MSD Client ID: OC-SB-504-7.5/9.5-XXX MSD

| COMPOUND | SPIKE ADDED (mg/Kg) | MSD CONCENTRATION (mg/Kg) | MSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| Cr (VI) | 20.9 | 15.5 | 74 | 1 | 20 | 55-110 | |

# Column to be used to flag recovery and RPD values

FORM III 7199

FORM III
HPLC/IC MATRIX SPIKE INSOLUBLE RECOVERY

Lab Name: TestAmerica Irvine Job No.: 480-29976-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: Info 2_TAIIRV167_Hex

Lab ID: 480-29976-2 MSI Client ID: OC-SB-504-7.5/9.5-XXX MSI

| COMPOUND | SPIKE ADDED (mg/Kg) | SAMPLE CONCENTRATION (mg/Kg) | MSI CONCENTRATION (mg/Kg) | MSI % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|---|
| Cr (VI) | 2430 | ND | 1730 | 71 | 55-110 | |

# Column to be used to flag recovery and RPD values

FORM III 7199

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: TestAmerica Irvine Job No.: 480-29976-1

SDG No.:

Lab File ID: Info 2_TAIIRV167_Hex Lab Sample ID: MB 440-77069/1-A

Matrix: Solid Date Extracted: 01/04/2013 10:56

Instrument ID: IC-16 Date Analyzed: 01/05/2013 02:40

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 440-77069/2-A | Info 2_TAIIRV167_Hex Chrom_20130105-030615.d | 01/05/2013 02:53 |
| OC-SB-504-0.0/1.0-XXX | 480-29976-1 | Info 2_TAIIRV167_Hex Chrom_20130105-031854.d | 01/05/2013 03:06 |
| OC-SB-504-7.5/9.5-XXX | 480-29976-2 | Info 2_TAIIRV167_Hex Chrom_20130105-033134.d | 01/05/2013 03:18 |
| OC-SB-504-7.5/9.5-XXX MS | 480-29976-2 MS | Info 2_TAIIRV167_Hex Chrom_20130105-034413.d | 01/05/2013 03:31 |
| OC-SB-504-7.5/9.5-XXX MSD | 480-29976-2 MSD | Info 2_TAIIRV167_Hex Chrom_20130105-035653.d | 01/05/2013 03:44 |
| OC-SB-505-0.0/1.0-XXX | 480-29976-3 | Info 2_TAIIRV167_Hex Chrom_20130105-042211.d | 01/05/2013 04:09 |
| OC-SB-505-5.0/7.0-XXX | 480-29976-4 | Info 2_TAIIRV167_Hex Chrom_20130105-043451.d | 01/05/2013 04:22 |

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: TestAmerica Irvine Job No.: 480-29976-1

SDG No.:

Lab File ID: Info 2_TAIIRV167_Hex Lab Sample ID: MB 440-77069/1-A

Matrix: Solid Date Extracted: 01/04/2013 10:56

Instrument ID: IC-16 Date Analyzed: 01/05/2013 02:40

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| OC-SB-508-0.0/1.0-XXX | 480-29976-10 | Info 2_TAIIRV167_Hex Chrom_20130105-044731.d | 01/05/2013 04:34 |
| OC-SB-508-8.0/10-XXX | 480-29976-11 | Info 2_TAIIRV167_Hex Chrom_20130105-052529.d | 01/05/2013 05:12 |
| OC-SB-508-12/14-XXX | 480-29976-12 | Info 2_TAIIRV167_Hex Chrom_20130105-053809.d | 01/05/2013 05:25 |
| OC-SB-504-7.5/9.5-XXX MSI | 480-29976-2 MSI | Info 2_TAIIRV167_Hex Chrom_20130105-092443.d | 01/05/2013 09:12 |

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-29976-1
SDG No.:
Client Sample ID: OC-SB-504-0.0/1.0-XXX
Lab Sample ID: 480-29976-1
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected: 12/11/2012 08:05
Extraction Method: 3060A
Date Extracted: 01/04/2013 10:56
Sample wt/vol: 1.25(g)
Date Analyzed: 01/05/2013 03:06
Con. Extract Vol.: 50(mL)
Dilution Factor: 10
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture: 27.2
GPC Cleanup:(Y/N) N
Analysis Batch No.: 77008
Units: mg/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 18540-29-9 | Cr (VI) | 0.29 | | 0.27 | 0.21 |

TestAmerica Irvine
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-031854.d | | |
| Lims ID: | 480-29976-A-1-C | Client ID: | OC-SB-504-0.0/1.0-XXX |
| Inject. Date: | 05-Jan-2013 03:06:00 | Dil. Factor: | 10.0000 |
| Sample Type: | Client | | |
| Sample ID: | 440-0017050-056 | | |
| Misc. Info.: | 440-0017050-056 | | |
| Operator: | irvinorg | Instrument ID: | IC-16 |
| Injection Vol: | 1.0 ul | ALS Bottle#: | 0 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 56 |
| Raw Data: | Smoothed | | |
| Detector: | GC Info 2_TAIIRV167_Hex Chrom_20130105-031854 | | |
| Method: | \\Irvchrom\ChromData\IC16\20130104-17050.b\218.6_16.m | | |
| Method Label: | HEX CHROME | | |
| Last Update: | 05-Jan-2013 09:09:14 | Calib Date: | 28-Dec-2012 10:27:00 |
| Quant Method: | External Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d | | |
| Limit Group: | IC-7199 | | |
| Integrator: | Falcon | | |
| Column Type: | | Column Dia: | |
| Process Host: | XAWRK036 | | |

First Level Reviewer: nikbakhtm Date: 05-Jan-2013 08:26:24

| Compound | RT | EXP RT | DLT RT | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|
| 1 Cr (VI) | 8.127 | 8.262 | -0.135 | 27210 | 0.5300 | |

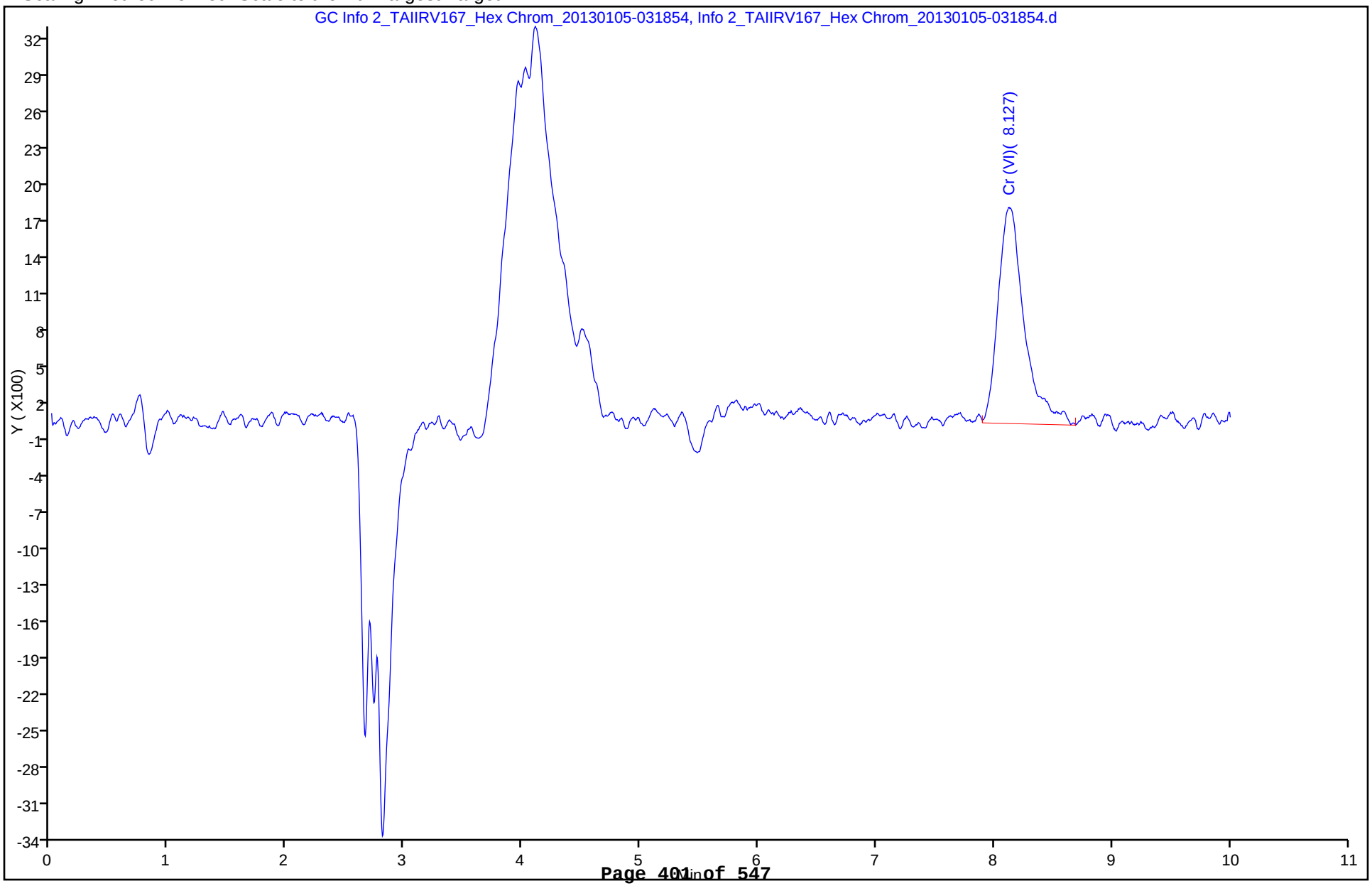
Report Date: 05-Jan-2013 08:26:25 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-031854.d

| | | | |
|---|---|---|---|
| Injection Date: | 05-Jan-2013 03:06:00 | Limit Group: | IC-7199 |
| Client ID: | OC-SB-504-0.0/1.0-XXX | Instrument ID: | IC-16 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 56 |
| Operator ID: | irvinorg | Injection Vol: | 1.0 ul |
| Column Type: | | Column Dia: | |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-29976-1
SDG No.:
Client Sample ID: OC-SB-504-7.5/9.5-XXX
Lab Sample ID: 480-29976-2
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected: 12/11/2012 08:30
Extraction Method: 3060A
Date Extracted: 01/04/2013 10:56
Sample wt/vol: 1.24(g)
Date Analyzed: 01/05/2013 03:18
Con. Extract Vol.: 50(mL)
Dilution Factor: 10
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture: 22.8
GPC Cleanup:(Y/N) N
Analysis Batch No.: 77008
Units: mg/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 18540-29-9 | Cr (VI) | ND | | 0.26 | 0.20 |

TestAmerica Irvine
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-033134.d | | |
| Lims ID: | 480-29976-B-2-E | Client ID: | OC-SB-504-7.5/9.5-XXX |
| Inject. Date: | 05-Jan-2013 03:18:00 | Dil. Factor: | 10.0000 |
| Sample Type: | Client | | |
| Sample ID: | 440-0017050-057 | | |
| Misc. Info.: | 440-0017050-057 | | |
| Operator: | irvinorg | Instrument ID: | IC-16 |
| Injection Vol: | 1.0 ul | ALS Bottle#: | 0 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 57 |
| Raw Data: | Smoothed | | |
| Detector: | GC Info 2_TAIIRV167_Hex Chrom_20130105-033134 | | |
| Method: | \\Irvchrom\ChromData\IC16\20130104-17050.b\218.6_16.m | | |
| Method Label: | HEX CHROME | | |
| Last Update: | 05-Jan-2013 09:09:14 | Calib Date: | 28-Dec-2012 10:27:00 |
| Quant Method: | External Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d | | |
| Limit Group: | IC-7199 | | |
| Integrator: | Falcon | | |
| Column Type: | | Column Dia: | |
| Process Host: | XAWRK036 | | |

First Level Reviewer: nikbakhtm Date: 05-Jan-2013 08:26:34

| Compound | RT | EXP RT | DLT RT | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|
| 1 Cr (VI) | 8.122 | 8.262 | -0.140 | 5643 | -0.0413 | |

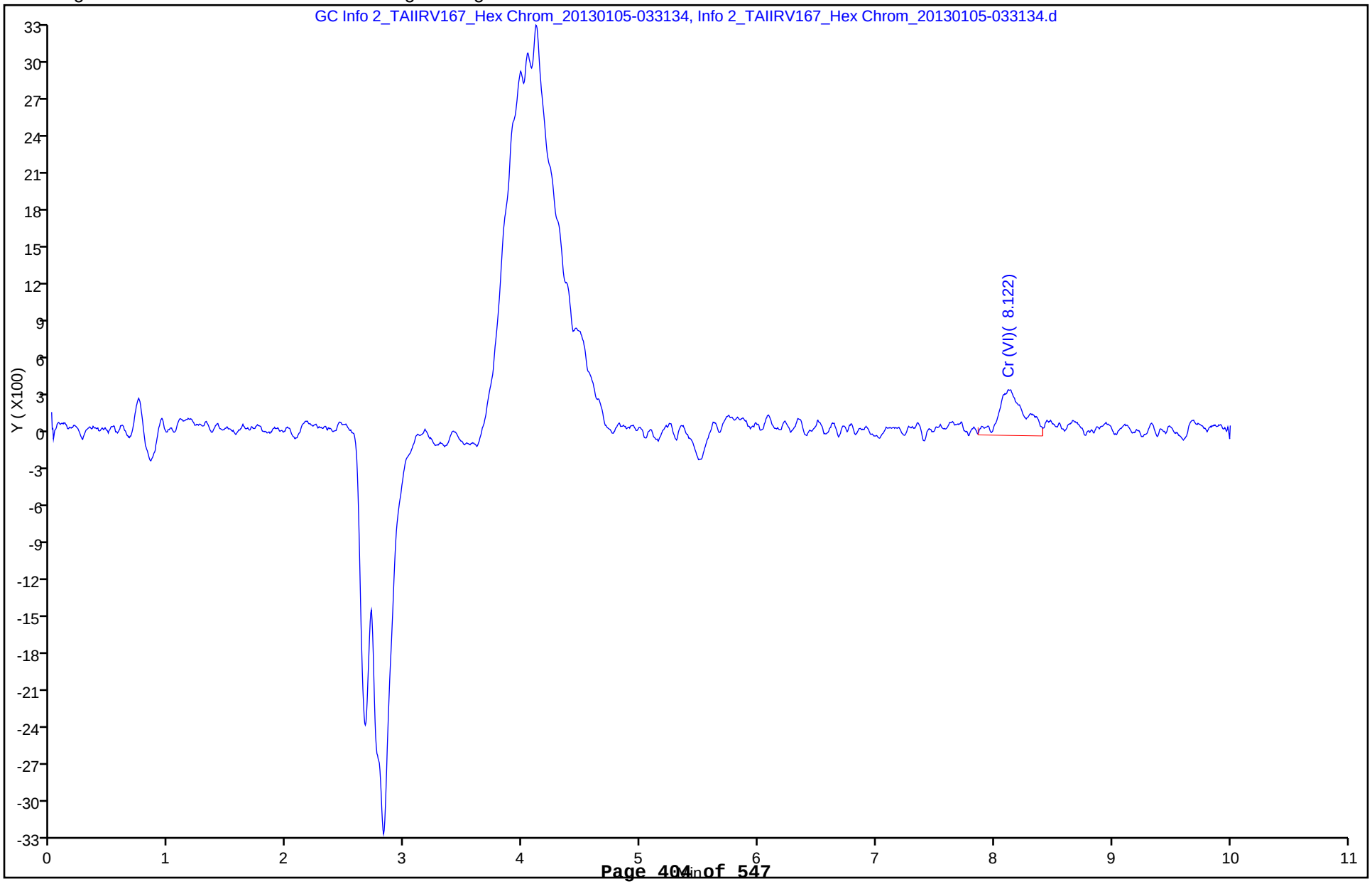
Report Date: 05-Jan-2013 08:26:34 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-033134.d

| | | | |
|---|---|---|---|
| Injection Date: | 05-Jan-2013 03:18:00 | Limit Group: | IC-7199 |
| Client ID: | OC-SB-504-7.5/9.5-XXX | Instrument ID: | IC-16 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 57 |
| Operator ID: | irvinorg | Injection Vol: | 1.0 ul |
| Column Type: | | Column Dia: | |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-29976-1
SDG No.:
Client Sample ID: OC-SB-505-0.0/1.0-XXX
Lab Sample ID: 480-29976-3
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected: 12/11/2012 09:25
Extraction Method: 3060A
Date Extracted: 01/04/2013 10:56
Sample wt/vol: 1.25(g)
Date Analyzed: 01/05/2013 04:09
Con. Extract Vol.: 50(mL)
Dilution Factor: 10
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture: 4.8
GPC Cleanup:(Y/N) N
Analysis Batch No.: 77008
Units: mg/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 18540-29-9 | Cr (VI) | 0.34 | | 0.21 | 0.16 |

TestAmerica Irvine
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-042211.d | | |
| Lims ID: | 480-29976-A-3-C | Client ID: | OC-SB-505-0.0/1.0-XXX |
| Inject. Date: | 05-Jan-2013 04:09:00 | Dil. Factor: | 10.0000 |
| Sample Type: | Client | | |
| Sample ID: | 440-0017050-061 | | |
| Misc. Info.: | 440-0017050-061 | | |
| Operator: | irvinorg | Instrument ID: | IC-16 |
| Injection Vol: | 1.0 ul | ALS Bottle#: | 0 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 61 |
| Raw Data: | Smoothed | | |
| Detector: | GC Info 2_TAIIRV167_Hex Chrom_20130105-042211 | | |
| Method: | \\Irvchrom\ChromData\IC16\20130104-17050.b\218.6_16.m | | |
| Method Label: | HEX CHROME | | |
| Last Update: | 05-Jan-2013 09:42:31 | Calib Date: | 28-Dec-2012 10:27:00 |
| Quant Method: | External Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d | | |
| Limit Group: | IC-7199 | | |
| Integrator: | Falcon | | |
| Column Type: | | Column Dia: | |
| Process Host: | XAWRK015 | | |

First Level Reviewer: nikbakhtm Date: 05-Jan-2013 08:27:00

| Compound | RT | EXP RT | DLT RT | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|
| 1 Cr (VI) | 8.117 | 8.262 | -0.145 | 37925 | 0.8138 | |

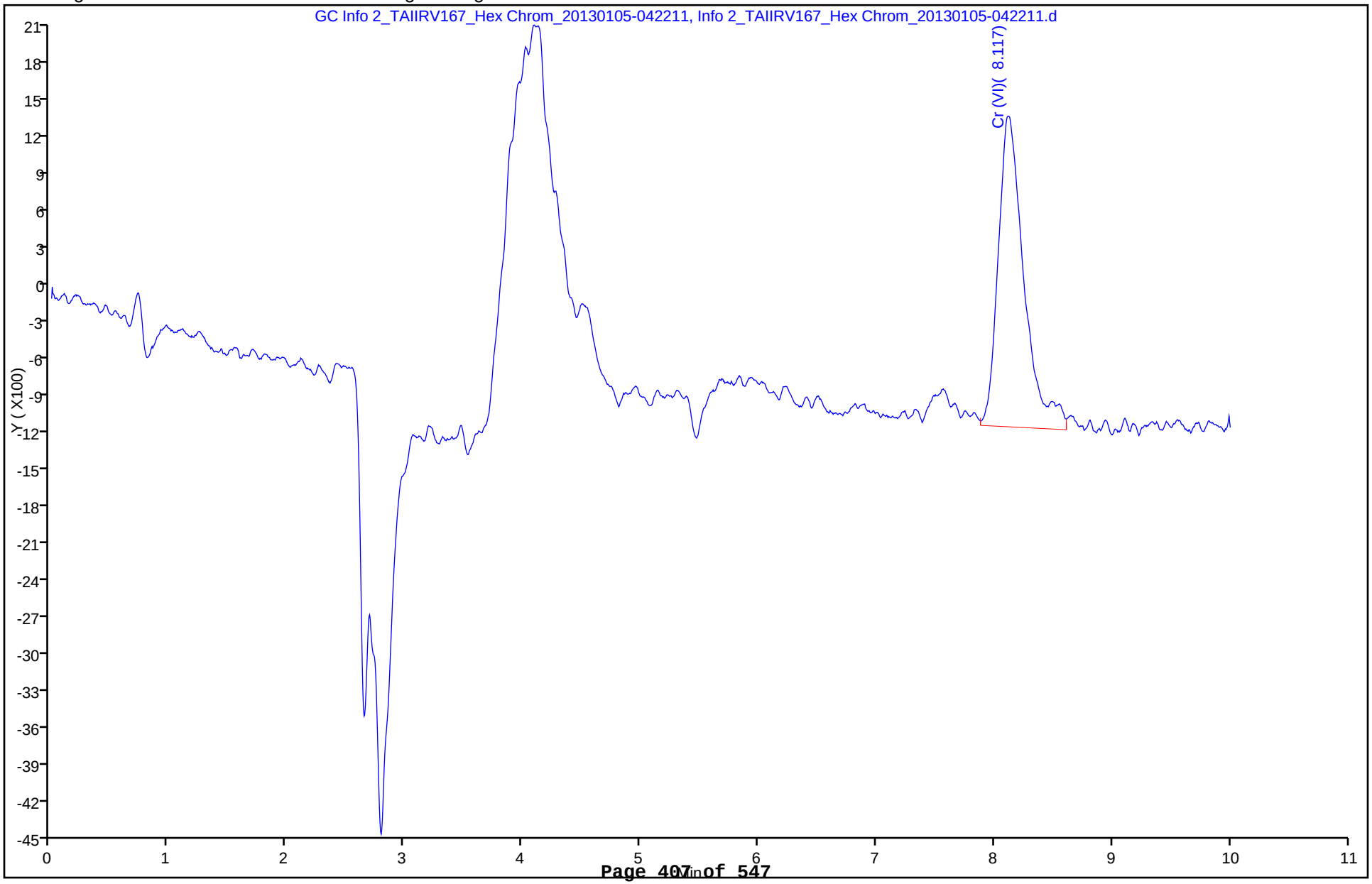
Report Date: 07-Jan-2013 10:48:08 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-042211.d

| | | | |
|---|---|---|---|
| Injection Date: | 05-Jan-2013 04:09:00 | Limit Group: | IC-7199 |
| Client ID: | OC-SB-505-0.0/1.0-XXX | Instrument ID: | IC-16 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 61 |
| Operator ID: | irvinorg | Injection Vol: | 1.0 ul |
| Column Type: | | Column Dia: | |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine | Job No.: 480-29976-1

SDG No.:

Client Sample ID: OC-SB-505-5.0/7.0-XXX | Lab Sample ID: 480-29976-4

Matrix: Solid | Lab File ID: Info 2_TAIIRV167_Hex

Analysis Method: 7199 | Date Collected: 12/11/2012 09:45

Extraction Method: 3060A | Date Extracted: 01/04/2013 10:56

Sample wt/vol: 1.25(g) | Date Analyzed: 01/05/2013 04:22

Con. Extract Vol.: 50(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | GC Column: AS7 ID: 4(mm)

% Moisture: 27.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 77008 | Units: mg/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 18540-29-9 | Cr (VI) | 0.58 | | 0.27 | 0.21 |

TestAmerica Irvine
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-043451.d | | |
| Lims ID: | 480-29976-B-4-B | Client ID: | OC-SB-505-5.0/7.0-XXX |
| Inject. Date: | 05-Jan-2013 04:22:00 | Dil. Factor: | 10.0000 |
| Sample Type: | Client | | |
| Sample ID: | 440-0017050-062 | | |
| Misc. Info.: | 440-0017050-062 | | |
| Operator: | irvinorg | Instrument ID: | IC-16 |
| Injection Vol: | 1.0 ul | ALS Bottle#: | 0 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 62 |
| Raw Data: | Smoothed | | |
| Detector: | GC Info 2_TAIIRV167_Hex Chrom_20130105-043451 | | |
| Method: | \\Irvchrom\ChromData\IC16\20130104-17050.b\218.6_16.m | | |
| Method Label: | HEX CHROME | | |
| Last Update: | 05-Jan-2013 09:09:14 | Calib Date: | 28-Dec-2012 10:27:00 |
| Quant Method: | External Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d | | |
| Limit Group: | IC-7199 | | |
| Integrator: | Falcon | | |
| Column Type: | | Column Dia: | |
| Process Host: | XAWRK036 | | |

First Level Reviewer: nikbakhtm Date: 05-Jan-2013 08:27:09

| Compound | RT | EXP RT | DLT RT | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|
| 1 Cr (VI) | 8.117 | 8.262 | -0.145 | 46695 | 1.05 | |

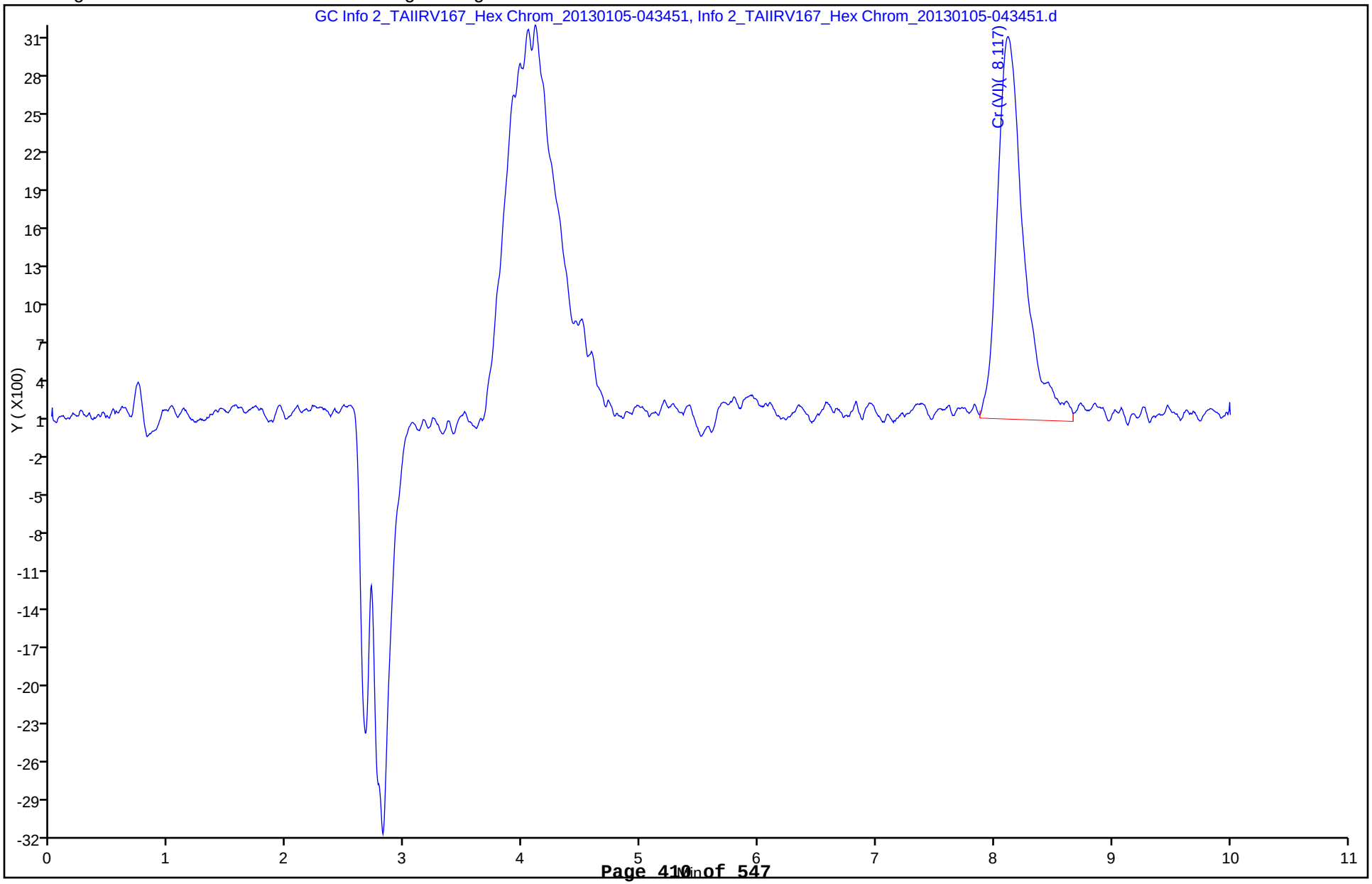
Report Date: 05-Jan-2013 08:27:09 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-043451.d

| | | | |
|---|---|---|---|
| Injection Date: | 05-Jan-2013 04:22:00 | Limit Group: | IC-7199 |
| Client ID: | OC-SB-505-5.0/7.0-XXX | Instrument ID: | IC-16 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 62 |
| Operator ID: | irvinorg | Injection Vol: | 1.0 ul |
| Column Type: | | Column Dia: | |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-29976-1
SDG No.:
Client Sample ID: OC-SB-508-0.0/1.0-XXX
Lab Sample ID: 480-29976-10
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected: 12/11/2012 13:25
Extraction Method: 3060A
Date Extracted: 01/04/2013 10:56
Sample wt/vol: 1.25(g)
Date Analyzed: 01/05/2013 04:34
Con. Extract Vol.: 50(mL)
Dilution Factor: 100
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture: 33.0
GPC Cleanup:(Y/N) N
Analysis Batch No.: 77008
Units: mg/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 18540-29-9 | Cr (VI) | ND | | 3.0 | 2.2 |

TestAmerica Irvine
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-044731.d | | |
| Lims ID: | 480-29976-A-10-C | Client ID: | OC-SB-508-0.0/1.0-XXX |
| Inject. Date: | 05-Jan-2013 04:34:00 | Dil. Factor: | 100.0000 |
| Sample Type: | Client | | |
| Sample ID: | 440-0017050-063 | | |
| Misc. Info.: | 440-0017050-063 | | |
| Operator: | irvinorg | Instrument ID: | IC-16 |
| Injection Vol: | 1.0 ul | ALS Bottle#: | 0 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 63 |
| Raw Data: | Smoothed | | |
| Detector: | GC Info 2_TAIIRV167_Hex Chrom_20130105-044731 | | |
| Method: | \\Irvchrom\ChromData\IC16\20130104-17050.b\218.6_16.m | | |
| Method Label: | HEX CHROME | | |
| Last Update: | 05-Jan-2013 09:09:14 | Calib Date: | 28-Dec-2012 10:27:00 |
| Quant Method: | External Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d | | |
| Limit Group: | IC-7199 | | |
| Integrator: | Falcon | | |
| Column Type: | | Column Dia: | |
| Process Host: | XAWRK036 | | |

First Level Reviewer: nikbakhtm Date: 05-Jan-2013 08:27:17

| Compound | RT | EXP RT | DLT RT | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|

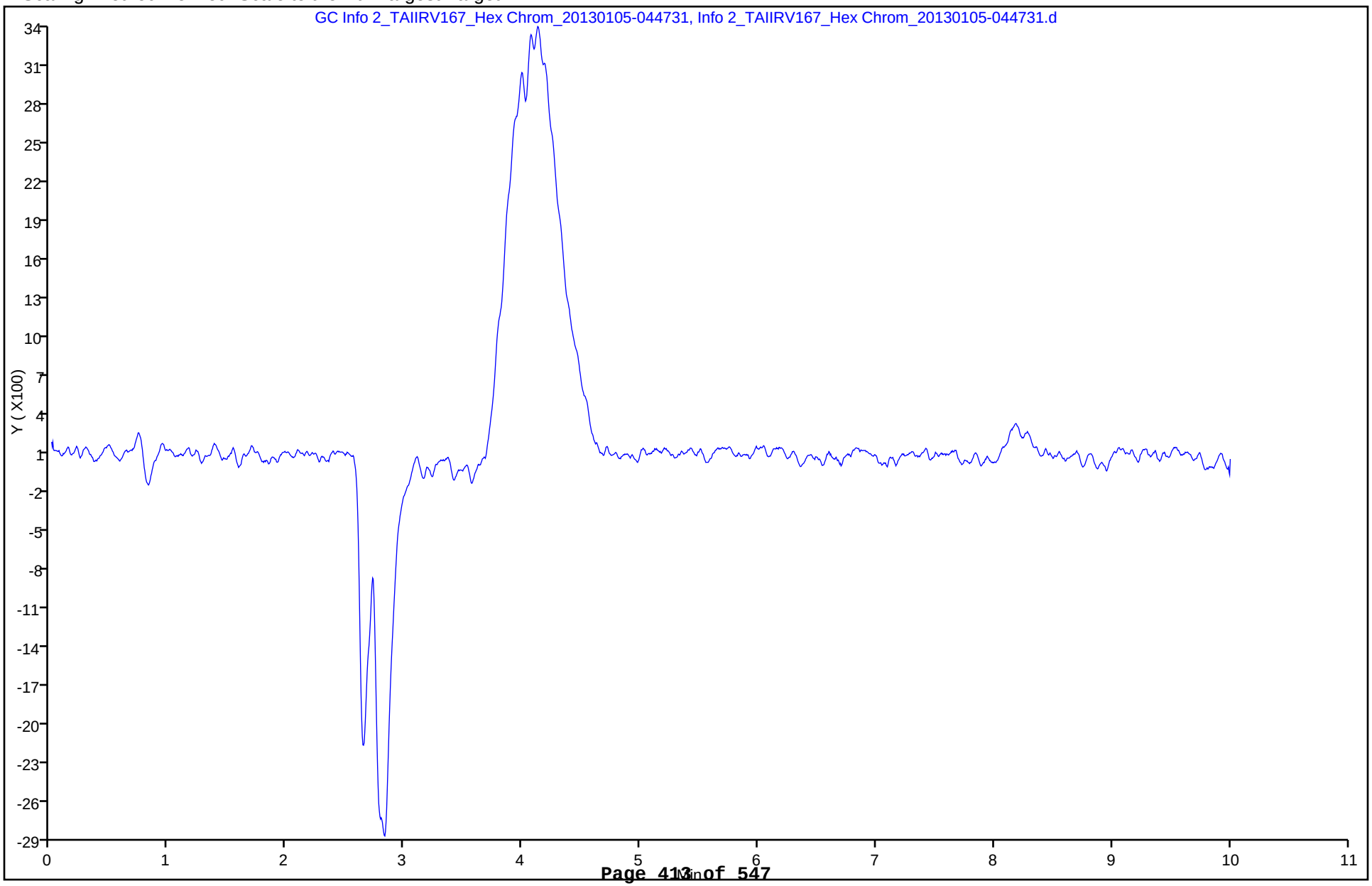
Report Date: 05-Jan-2013 08:27:17 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-044731.d

| | | | |
|---|---|---|---|
| Injection Date: | 05-Jan-2013 04:34:00 | Limit Group: | IC-7199 |
| Client ID: | OC-SB-508-0.0/1.0-XXX | Instrument ID: | IC-16 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 63 |
| Operator ID: | irvinorg | Injection Vol: | 1.0 ul |
| Column Type: | | Column Dia: | |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-29976-1
SDG No.:
Client Sample ID: OC-SB-508-8.0/10-XXX
Lab Sample ID: 480-29976-11
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected: 12/11/2012 13:40
Extraction Method: 3060A
Date Extracted: 01/04/2013 10:56
Sample wt/vol: 1.26(g)
Date Analyzed: 01/05/2013 05:12
Con. Extract Vol.: 50(mL)
Dilution Factor: 10
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture: 19.4
GPC Cleanup:(Y/N) N
Analysis Batch No.: 77008
Units: mg/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 18540-29-9 | Cr (VI) | 1.1 | | 0.25 | 0.18 |

TestAmerica Irvine
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-052529.d | | |
| Lims ID: | 480-29976-B-11-B | Client ID: | OC-SB-508-8.0/10-XXX |
| Inject. Date: | 05-Jan-2013 05:12:00 | Dil. Factor: | 10.0000 |
| Sample Type: | Client | | |
| Sample ID: | 440-0017050-066 | | |
| Misc. Info.: | 440-0017050-066 | | |
| Operator: | irvinorg | Instrument ID: | IC-16 |
| Injection Vol: | 1.0 ul | ALS Bottle#: | 0 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 66 |
| Raw Data: | Smoothed | | |
| Detector: | GC Info 2_TAIIRV167_Hex Chrom_20130105-052529 | | |
| Method: | \\Irvchrom\ChromData\IC16\20130104-17050.b\218.6_16.m | | |
| Method Label: | HEX CHROME | | |
| Last Update: | 05-Jan-2013 08:27:24 | Calib Date: | 28-Dec-2012 10:27:00 |
| Quant Method: | External Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d | | |
| Limit Group: | IC-7199 | | |
| Integrator: | Falcon | | |
| Column Type: | | Column Dia: | |
| Process Host: | XAWRK036 | | |

First Level Reviewer: nikbakhtm Date: 05-Jan-2013 08:27:41

| Compound | RT | EXP RT | DLT RT | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|
| 1 Cr (VI) | 8.122 | 8.262 | -0.140 | 95257 | 2.33 | |

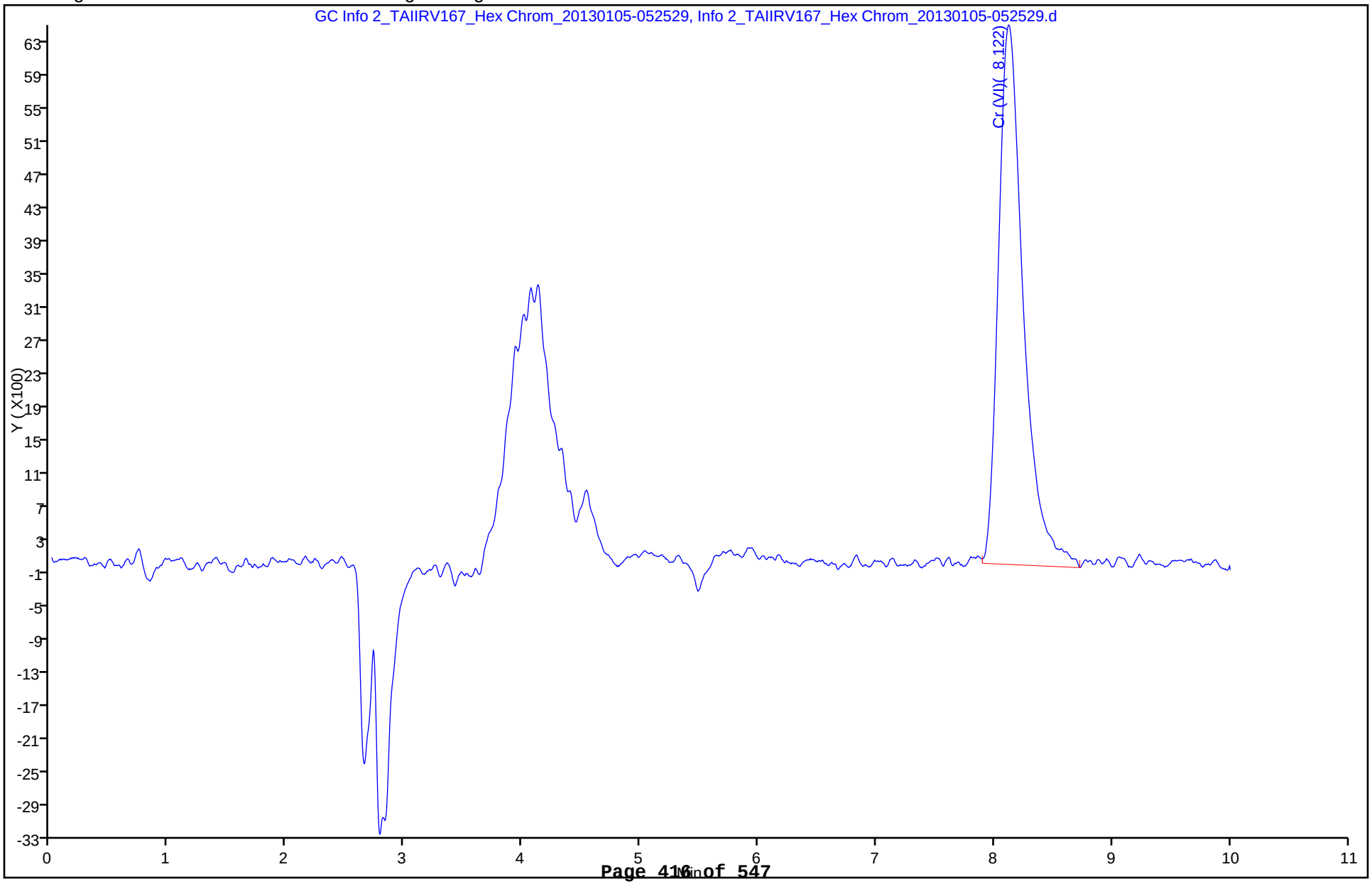
Report Date: 05-Jan-2013 08:27:41 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-052529.d

| | | | |
|---|---|---|---|
| Injection Date: | 05-Jan-2013 05:12:00 | Limit Group: | IC-7199 |
| Client ID: | OC-SB-508-8.0/10-XXX | Instrument ID: | IC-16 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 66 |
| Operator ID: | irvinorg | Injection Vol: | 1.0 ul |
| Column Type: | | Column Dia: | |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-29976-1
SDG No.:
Client Sample ID: OC-SB-508-12/14-XXX
Lab Sample ID: 480-29976-12
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected: 12/11/2012 13:50
Extraction Method: 3060A
Date Extracted: 01/04/2013 10:56
Sample wt/vol: 1.26(g)
Date Analyzed: 01/05/2013 05:25
Con. Extract Vol.: 50(mL)
Dilution Factor: 10
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture: 18.0
GPC Cleanup:(Y/N) N
Analysis Batch No.: 77008
Units: mg/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 18540-29-9 | Cr (VI) | 0.26 | | 0.24 | 0.18 |

TestAmerica Irvine
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-053809.d | | |
| Lims ID: | 480-29976-A-12-E | Client ID: | OC-SB-508-12/14-XXX |
| Inject. Date: | 05-Jan-2013 05:25:00 | Dil. Factor: | 10.0000 |
| Sample Type: | Client | | |
| Sample ID: | 440-0017050-067 | | |
| Misc. Info.: | 440-0017050-067 | | |
| Operator: | irvinorg | Instrument ID: | IC-16 |
| Injection Vol: | 1.0 ul | ALS Bottle#: | 0 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 67 |
| Raw Data: | Smoothed | | |
| Detector: | GC Info 2_TAIIRV167_Hex Chrom_20130105-053809 | | |
| Method: | \\Irvchrom\ChromData\IC16\20130104-17050.b\218.6_16.m | | |
| Method Label: | HEX CHROME | | |
| Last Update: | 05-Jan-2013 08:27:24 | Calib Date: | 28-Dec-2012 10:27:00 |
| Quant Method: | External Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d | | |
| Limit Group: | IC-7199 | | |
| Integrator: | Falcon | | |
| Column Type: | | Column Dia: | |
| Process Host: | XAWRK036 | | |

First Level Reviewer: nikbakhtm Date: 05-Jan-2013 08:27:49

| Compound | RT | EXP RT | DLT RT | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|
| 1 Cr (VI) | 8.127 | 8.262 | -0.135 | 27309 | 0.5326 | |

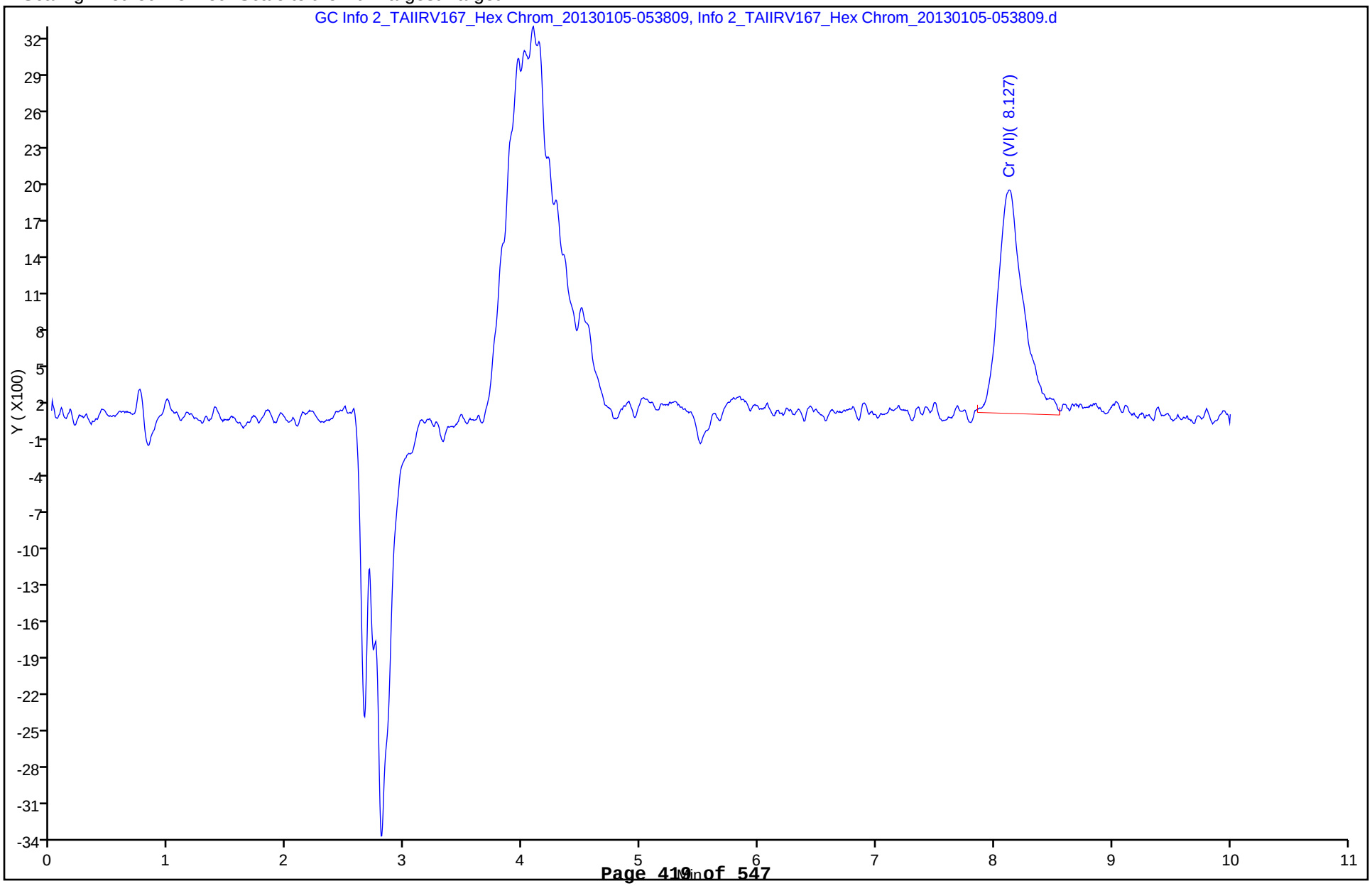
Report Date: 05-Jan-2013 08:27:49 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-053809.d

| | | | |
|---|---|---|---|
| Injection Date: | 05-Jan-2013 05:25:00 | Limit Group: | IC-7199 |
| Client ID: | OC-SB-508-12/14-XXX | Instrument ID: | IC-16 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 67 |
| Operator ID: | irvinorg | Injection Vol: | 1.0 ul |
| Column Type: | | Column Dia: | |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Irvine Job No.: 480-29976-1 Analy Batch No.: 75938

SDG No.:

Instrument ID: IC-16 GC Column: AS7 ID: 4(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/28/2012 08:59 Calibration End Date: 12/28/2012 10:27 Calibration ID: 3821

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD2 440-75938/21 | Info 2_TAIIRV167_Hex |
| Level 2 | STD3 440-75938/22 | Info 2_TAIIRV167_Hex |
| Level 3 | STD4 440-75938/23 | Info 2_TAIIRV167_Hex |
| Level 4 | STD5 440-75938/24 | Info 2_TAIIRV167_Hex |
| Level 5 | STD6 440-75938/25 | Info 2_TAIIRV167_Hex |
| Level 6 | STD7 440-75938/26 | Info 2_TAIIRV167_Hex |
| Level 7 | STD8 440-75938/27 | Info 2_TAIIRV167_Hex |

| ANALYTE | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 6 | LVL 7 | | | | RT WINDOW | AVG RT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cr (VI) | 8.262 | 8.277 | 8.277 | 8.272 | 8.282 | 8.272 | 8.293 | | | | 7.848 - 8.675 | 8.276 |

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Irvine Job No.: 480-29976-1 Analy Batch No.: 75938

SDG No.:

Instrument ID: IC-16 GC Column: AS7 ID: 4(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/28/2012 08:59 Calibration End Date: 12/28/2012 10:27 Calibration ID: 3821

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD2 440-75938/21 | Info 2_TAIIRV167_Hex |
| Level 2 | STD3 440-75938/22 | Info 2_TAIIRV167_Hex |
| Level 3 | STD4 440-75938/23 | Info 2_TAIIRV167_Hex |
| Level 4 | STD5 440-75938/24 | Info 2_TAIIRV167_Hex |
| Level 5 | STD6 440-75938/25 | Info 2_TAIIRV167_Hex |
| Level 6 | STD7 440-75938/26 | Info 2_TAIIRV167_Hex |
| Level 7 | STD8 440-75938/27 | Info 2_TAIIRV167_Hex |

| ANALYTE | CF | | | | CURVE TYPE | COEFFICIENT | | | # | MIN CF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LVL 1<br>LVL 5 | LVL 2<br>LVL 6 | LVL 3<br>LVL 7 | LVL 4 | | B | M1 | M2 | | | | | | | | |
| Cr (VI) | 48390<br>37862 | 38198<br>38052 | 39677<br>37687 | 38244 | Lin | 7203.50272 | 37748.5571 | | | | | | | 1.0000 | | 0.9990 |

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

FORM VI
HPLC/IC INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Irvine Job No.: 480-29976-1 Analy Batch No.: 75938

SDG No.:

Instrument ID: IC-16 GC Column: AS7 ID: 4(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/28/2012 08:59 Calibration End Date: 12/28/2012 10:27 Calibration ID: 3821

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | STD2 440-75938/21 | Info 2_TAIIRV167_Hex |
| Level 2 | STD3 440-75938/22 | Info 2_TAIIRV167_Hex |
| Level 3 | STD4 440-75938/23 | Info 2_TAIIRV167_Hex |
| Level 4 | STD5 440-75938/24 | Info 2_TAIIRV167_Hex |
| Level 5 | STD6 440-75938/25 | Info 2_TAIIRV167_Hex |
| Level 6 | STD7 440-75938/26 | Info 2_TAIIRV167_Hex |
| Level 7 | STD8 440-75938/27 | Info 2_TAIIRV167_Hex |

| ANALYTE | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Cr (VI) | Lin | 14517<br>2853900 | 38198<br>3768733 | 396772 | 956106 | 1893100 | 0.300<br>75.0 | 1.00<br>100 | 10.0 | 25.0 | 50.0 |

Curve Type Legend:

Lin = Linear

TestAmerica Irvine
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-092425.d | | |
| Lims ID: | STD2 | Client ID: | |
| Inject. Date: | 28-Dec-2012 09:11:00 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 1 |
| Sample ID: | 440-0016809-021 | | |
| Misc. Info.: | 440-0016809-021 | | |
| Operator: | irvinorg | Instrument ID: | IC-16 |
| Injection Vol: | 1.0 ul | ALS Bottle#: | 0 |
| Lims Batch ID: | 75938 | Lims Sample ID: | 21 |
| Sublist: | chrom-218.6_16*sub1 | | |
| Raw Data: | Smoothed | | |
| Detector: | GC Info 2_TAIIRV167_Hex Chrom_20121228-092425 | | |
| Method: | \\Irvchrom\ChromData\IC16\20121228-16809.b\218.6_16.m | | |
| Method Label: | HEX CHROME | | |
| Last Update: | 28-Dec-2012 11:08:06 | Calib Date: | 28-Dec-2012 10:27:00 |
| Quant Method: | External Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d | | |
| Limit Group: | IC-7199 | | |
| Integrator: | Falcon | | |
| Column Type: | | Column Dia: | |
| Process Host: | XAWRK024 | | |

| Compound | RT | EXP RT | DLT RT | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|
| 1 Cr (VI) | 8.262 | 8.262 | 0.0 | 14517 | 0.1937 | |

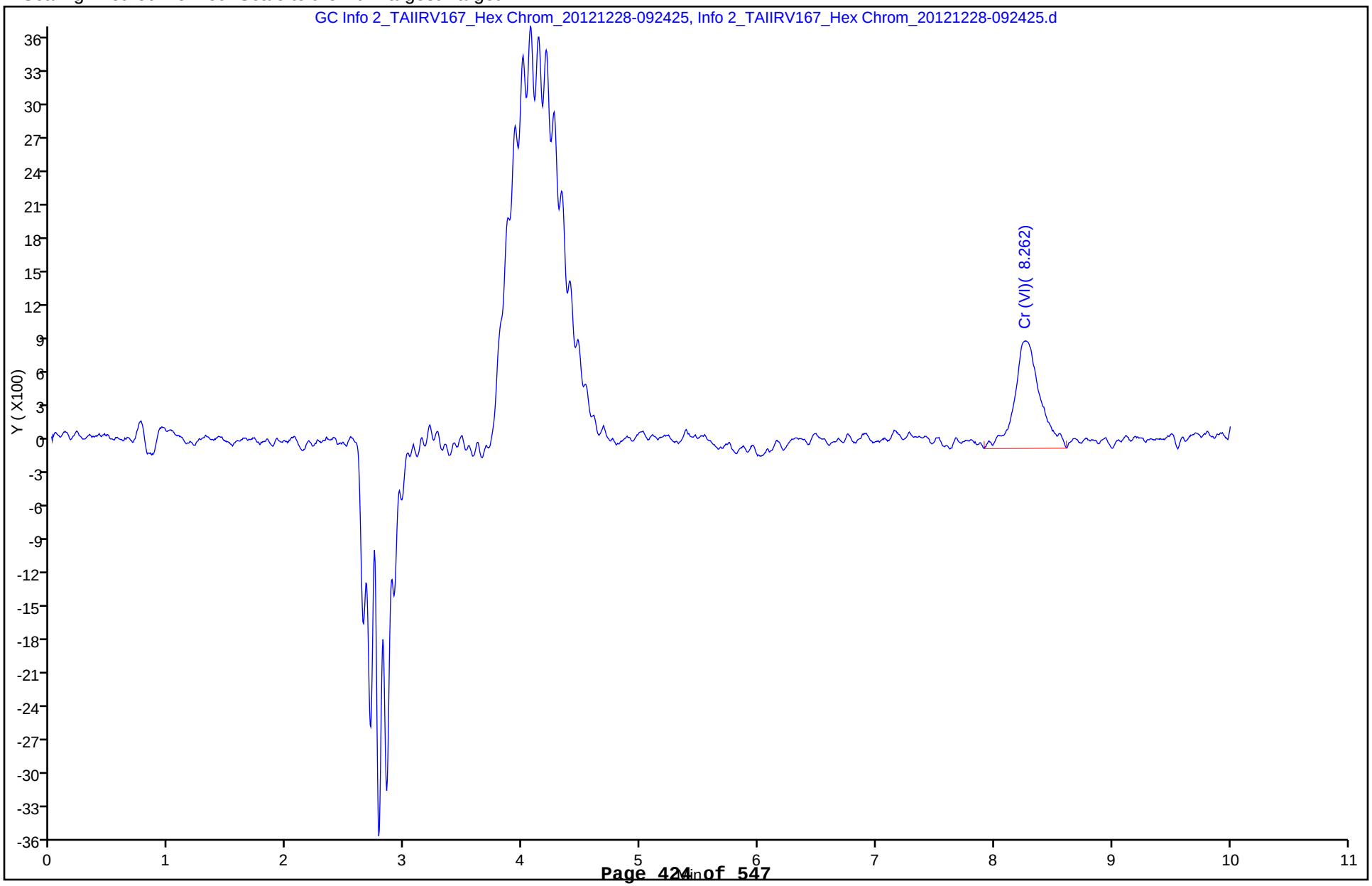
Report Date: 28-Dec-2012 11:08:06 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-092425.d

| | | | |
|---|---|---|---|
| Injection Date: | 28-Dec-2012 09:11:00 | Limit Group: | IC-7199 |
| Client ID: | | Instrument ID: | IC-16 |
| Lims Batch ID: | 75938 | Lims Sample ID: | 21 |
| Operator ID: | irvinorg | Injection Vol: | 1.0 ul |
| Column Type: | | Column Dia: | |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-093704.d | | |
| Lims ID: | STD3 | Client ID: | |
| Inject. Date: | 28-Dec-2012 09:24:00 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 2 |
| Sample ID: | 440-0016809-022 | | |
| Misc. Info.: | 440-0016809-022 | | |
| Operator: | irvinorg | Instrument ID: | IC-16 |
| Injection Vol: | 1.0 ul | ALS Bottle#: | 0 |
| Lims Batch ID: | 75938 | Lims Sample ID: | 22 |
| Sublist: | chrom-218.6_16*sub1 | | |
| Raw Data: | Smoothed | | |
| Detector: | GC Info 2_TAIIRV167_Hex Chrom_20121228-093704 | | |
| Method: | \\Irvchrom\ChromData\IC16\20121228-16809.b\218.6_16.m | | |
| Method Label: | HEX CHROME | | |
| Last Update: | 28-Dec-2012 11:08:07 | Calib Date: | 28-Dec-2012 10:27:00 |
| Quant Method: | External Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d | | |
| Limit Group: | IC-7199 | | |
| Integrator: | Falcon | | |
| Column Type: | | Column Dia: | |
| Process Host: | XAWRK024 | | |

| Compound | RT | EXP RT | DLT RT | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|
| 1 Cr (VI) | 8.277 | 8.262 | 0.015 | 38198 | 0.8211 | |

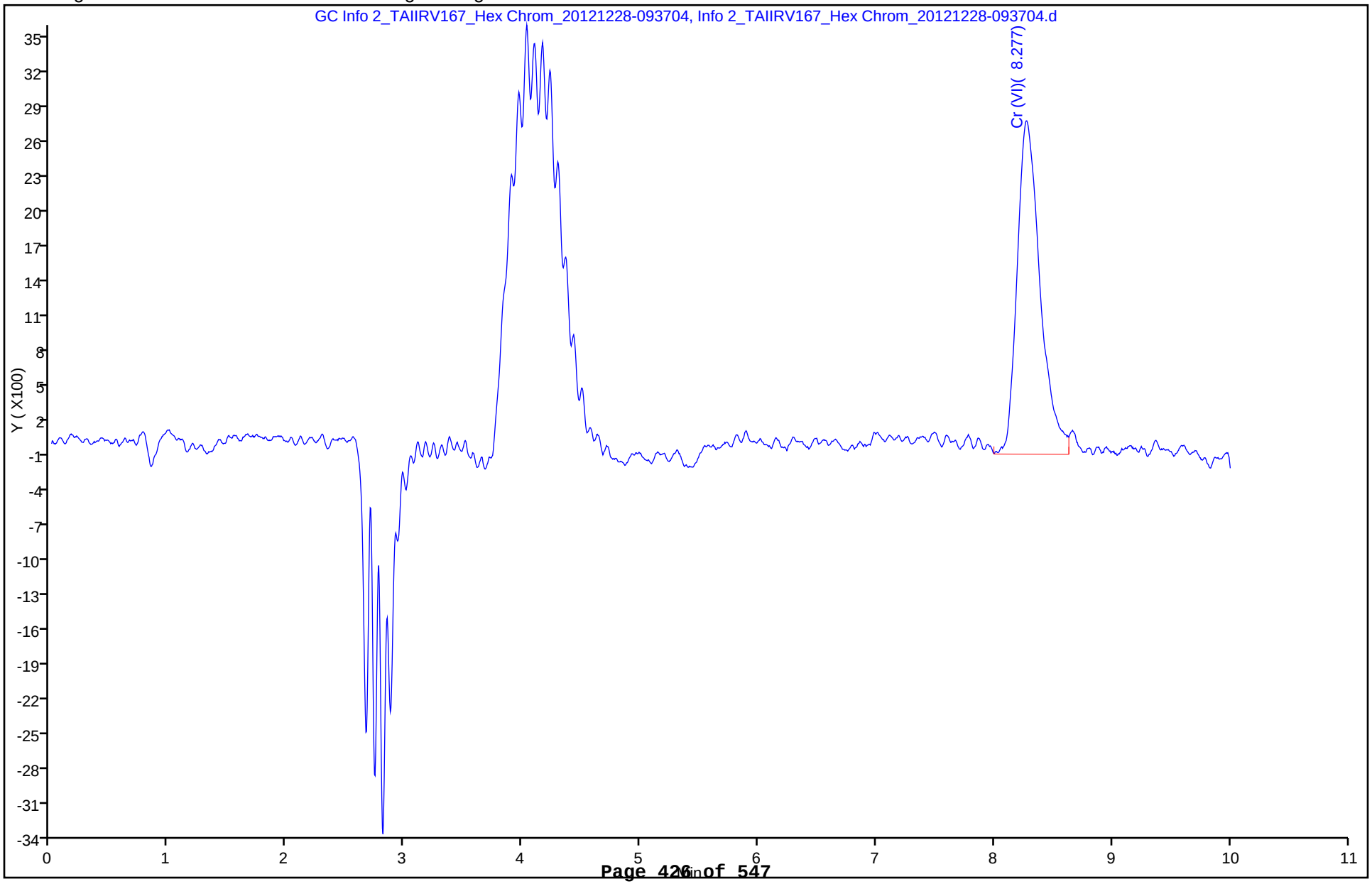
Report Date: 28-Dec-2012 11:08:07 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-093704.d

| | | | |
|---|---|---|---|
| Injection Date: | 28-Dec-2012 09:24:00 | Limit Group: | IC-7199 |
| Client ID: | | Instrument ID: | IC-16 |
| Lims Batch ID: | 75938 | Lims Sample ID: | 22 |
| Operator ID: | irvinorg | Injection Vol: | 1.0 ul |
| Column Type: | | Column Dia: | |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-094945.d | | |
| Lims ID: | STD4 | Client ID: | |
| Inject. Date: | 28-Dec-2012 09:37:00 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 3 |
| Sample ID: | 440-0016809-023 | | |
| Misc. Info.: | 440-0016809-023 | | |
| Operator: | irvinorg | Instrument ID: | IC-16 |
| Injection Vol: | 1.0 ul | ALS Bottle#: | 0 |
| Lims Batch ID: | 75938 | Lims Sample ID: | 23 |
| Sublist: | chrom-218.6_16*sub1 | | |
| Raw Data: | Smoothed | | |
| Detector: | GC Info 2_TAIIRV167_Hex Chrom_20121228-094945 | | |
| Method: | \\Irvchrom\ChromData\IC16\20121228-16809.b\218.6_16.m | | |
| Method Label: | HEX CHROME | | |
| Last Update: | 28-Dec-2012 11:08:07 | Calib Date: | 28-Dec-2012 10:27:00 |
| Quant Method: | External Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d | | |
| Limit Group: | IC-7199 | | |
| Integrator: | Falcon | | |
| Column Type: | | Column Dia: | |
| Process Host: | XAWRK024 | | |

| Compound | RT | EXP RT | DLT RT | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|
| 1 Cr (VI) | 8.277 | 8.262 | 0.015 | 396772 | 10.3 | |

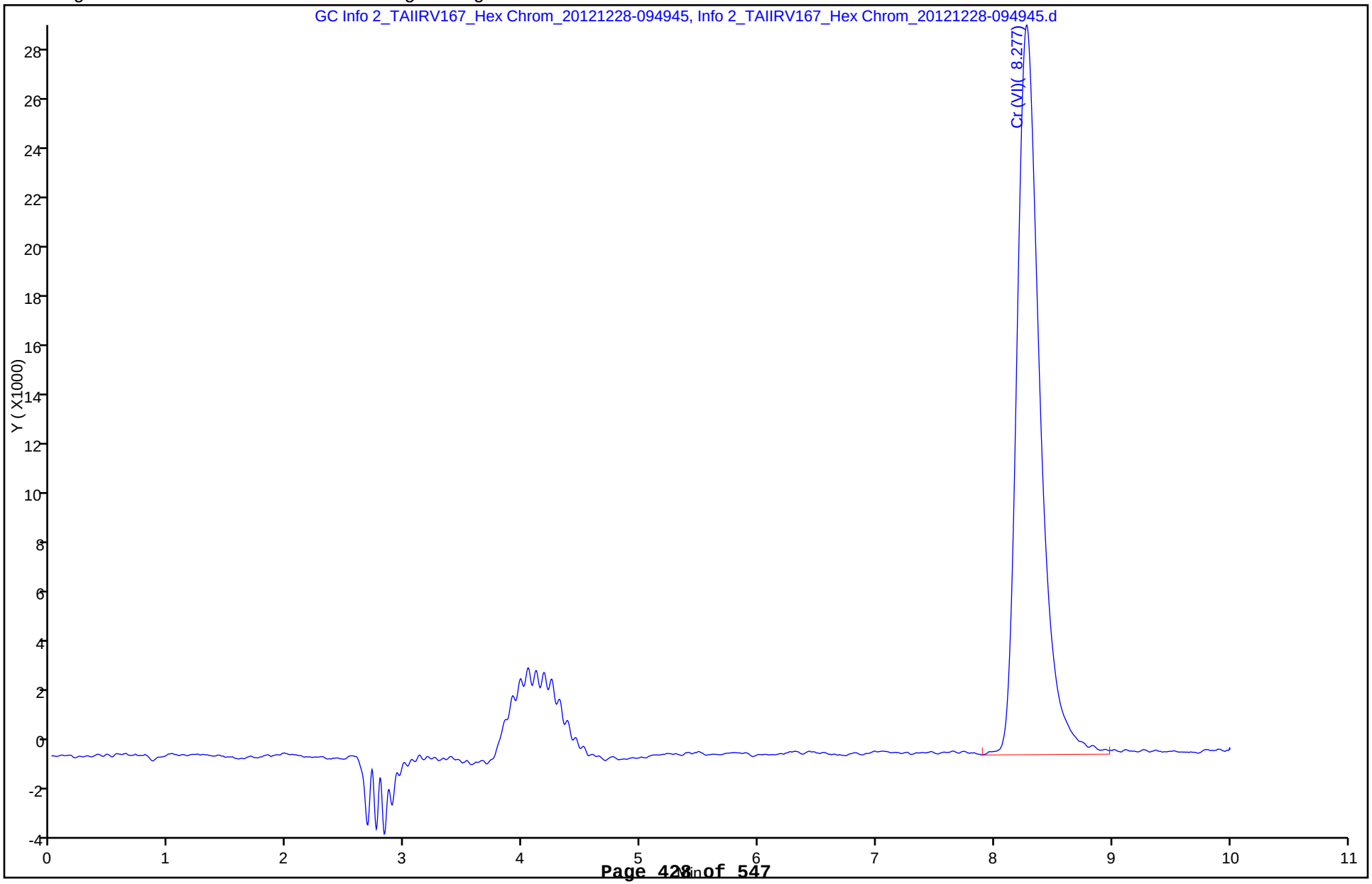
Report Date: 28-Dec-2012 11:08:07 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-094945.d

| | | | |
|---|---|---|---|
| Injection Date: | 28-Dec-2012 09:37:00 | Limit Group: | IC-7199 |
| Client ID: | | Instrument ID: | IC-16 |
| Lims Batch ID: | 75938 | Lims Sample ID: | 23 |
| Operator ID: | irvinorg | Injection Vol: | 1.0 ul |
| Column Type: | | Column Dia: | |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-100225.d | | |
| Lims ID: | STD5 | Client ID: | |
| Inject. Date: | 28-Dec-2012 09:49:00 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 4 |
| Sample ID: | 440-0016809-024 | | |
| Misc. Info.: | 440-0016809-024 | | |
| Operator: | irvinorg | Instrument ID: | IC-16 |
| Injection Vol: | 1.0 ul | ALS Bottle#: | 0 |
| Lims Batch ID: | 75938 | Lims Sample ID: | 24 |
| Sublist: | chrom-218.6_16*sub1 | | |
| Raw Data: | Smoothed | | |
| Detector: | GC Info 2_TAIIRV167_Hex Chrom_20121228-100225 | | |
| Method: | \\Irvchrom\ChromData\IC16\20121228-16809.b\218.6_16.m | | |
| Method Label: | HEX CHROME | | |
| Last Update: | 28-Dec-2012 11:08:07 | Calib Date: | 28-Dec-2012 10:27:00 |
| Quant Method: | External Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d | | |
| Limit Group: | IC-7199 | | |
| Integrator: | Falcon | | |
| Column Type: | | Column Dia: | |
| Process Host: | XAWRK024 | | |

| Compound | RT | EXP RT | DLT RT | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|
| 1 Cr (VI) | 8.272 | 8.262 | 0.010 | 956106 | 25.1 | |

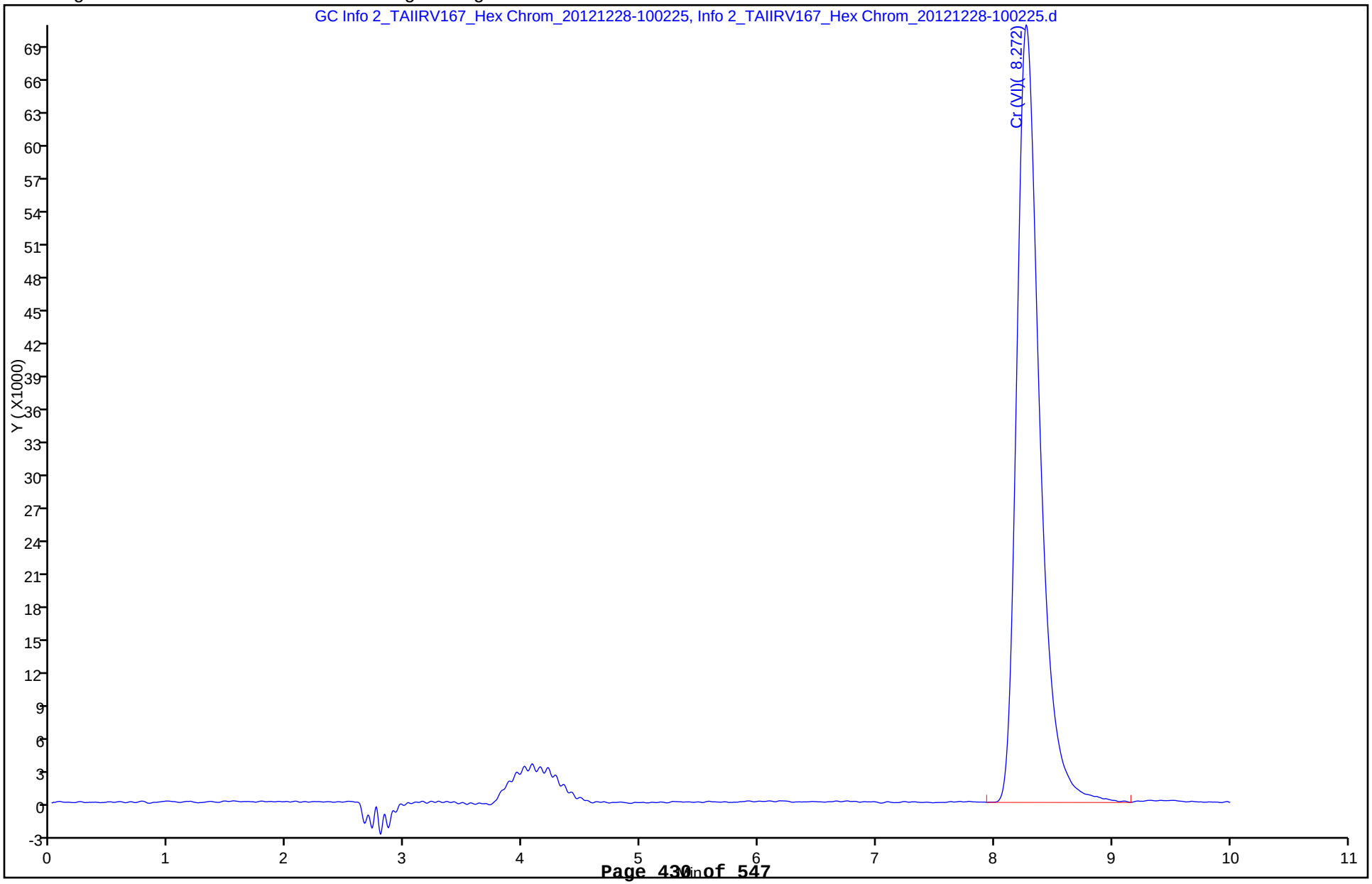
Report Date: 28-Dec-2012 11:08:08 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-100225.d

| | | | |
|---|---|---|---|
| Injection Date: | 28-Dec-2012 09:49:00 | Limit Group: | IC-7199 |
| Client ID: | | Instrument ID: | IC-16 |
| Lims Batch ID: | 75938 | Lims Sample ID: | 24 |
| Operator ID: | irvinorg | Injection Vol: | 1.0 ul |
| Column Type: | | Column Dia: | |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-101504.d | | |
| Lims ID: | STD6 | Client ID: | |
| Inject. Date: | 28-Dec-2012 10:02:00 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 5 |
| Sample ID: | 440-0016809-025 | | |
| Misc. Info.: | 440-0016809-025 | | |
| Operator: | irvinorg | Instrument ID: | IC-16 |
| Injection Vol: | 1.0 ul | ALS Bottle#: | 0 |
| Lims Batch ID: | 75938 | Lims Sample ID: | 25 |
| Sublist: | chrom-218.6_16*sub1 | | |
| Raw Data: | Smoothed | | |
| Detector: | GC Info 2_TAIIRV167_Hex Chrom_20121228-101504 | | |
| Method: | \\Irvchrom\ChromData\IC16\20121228-16809.b\218.6_16.m | | |
| Method Label: | HEX CHROME | | |
| Last Update: | 28-Dec-2012 11:08:08 | Calib Date: | 28-Dec-2012 10:27:00 |
| Quant Method: | External Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d | | |
| Limit Group: | IC-7199 | | |
| Integrator: | Falcon | | |
| Column Type: | | Column Dia: | |
| Process Host: | XAWRK024 | | |

| Compound | RT | EXP RT | DLT RT | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|
| 1 Cr (VI) | 8.282 | 8.262 | 0.020 | 1893100 | 50.0 | |

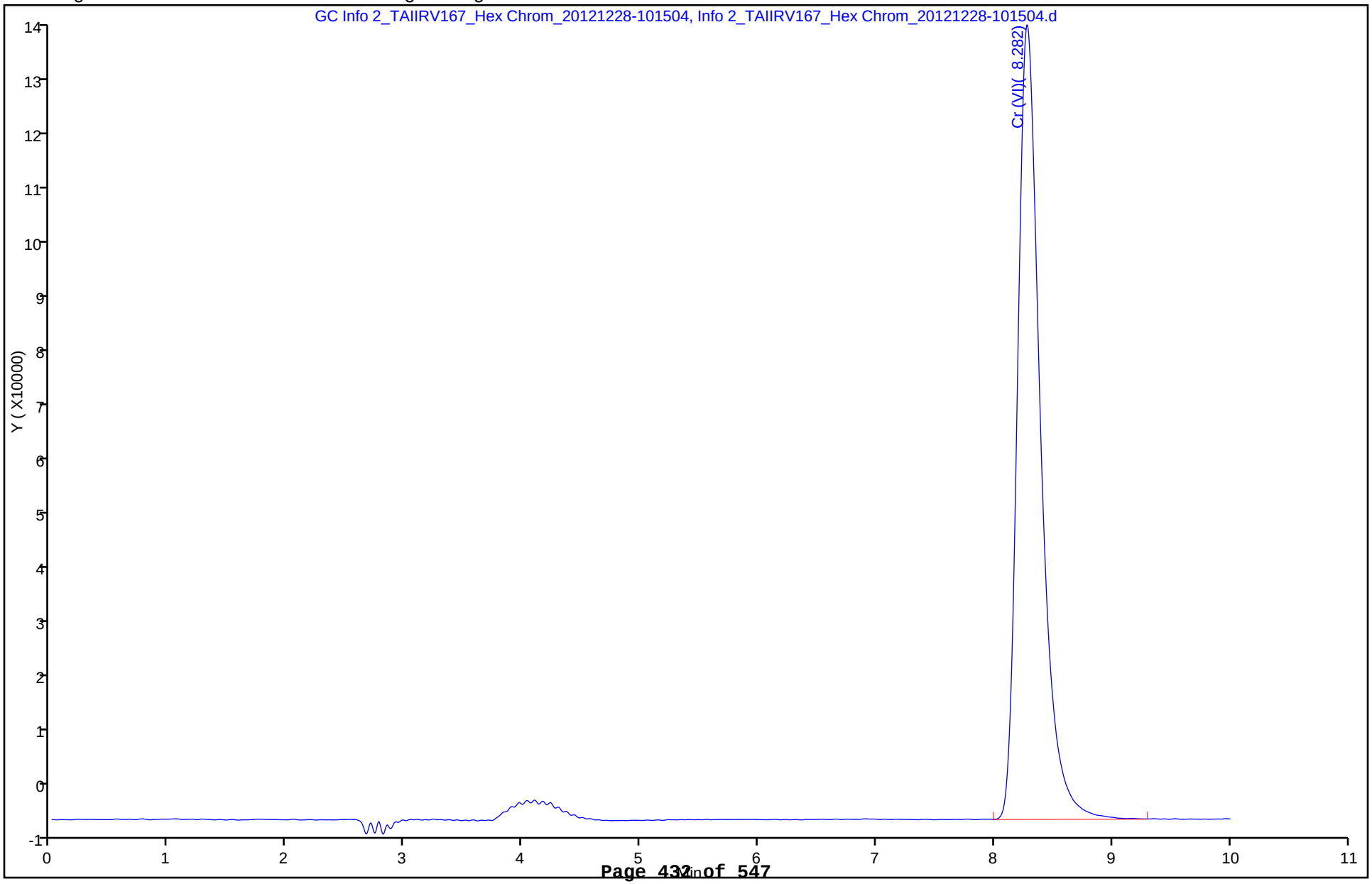
Report Date: 28-Dec-2012 11:08:08 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-101504.d

| | | | |
|---|---|---|---|
| Injection Date: | 28-Dec-2012 10:02:00 | Limit Group: | IC-7199 |
| Client ID: | | Instrument ID: | IC-16 |
| Lims Batch ID: | 75938 | Lims Sample ID: | 25 |
| Operator ID: | irvinorg | Injection Vol: | 1.0 ul |
| Column Type: | | Column Dia: | |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-102746.d | | |
| Lims ID: | STD7 | Client ID: | |
| Inject. Date: | 28-Dec-2012 10:15:00 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 6 |
| Sample ID: | 440-0016809-026 | | |
| Misc. Info.: | 440-0016809-026 | | |
| Operator: | irvinorg | Instrument ID: | IC-16 |
| Injection Vol: | 1.0 ul | ALS Bottle#: | 0 |
| Lims Batch ID: | 75938 | Lims Sample ID: | 26 |
| Sublist: | chrom-218.6_16*sub1 | | |
| Raw Data: | Smoothed | | |
| Detector: | GC Info 2_TAIIRV167_Hex Chrom_20121228-102746 | | |
| Method: | \\Irvchrom\ChromData\IC16\20121228-16809.b\218.6_16.m | | |
| Method Label: | HEX CHROME | | |
| Last Update: | 28-Dec-2012 11:08:08 | Calib Date: | 28-Dec-2012 10:27:00 |
| Quant Method: | External Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d | | |
| Limit Group: | IC-7199 | | |
| Integrator: | Falcon | | |
| Column Type: | | Column Dia: | |
| Process Host: | XAWRK024 | | |

| Compound | RT | EXP RT | DLT RT | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|
| 1 Cr (VI) | 8.272 | 8.262 | 0.010 | 2853900 | 75.4 | |

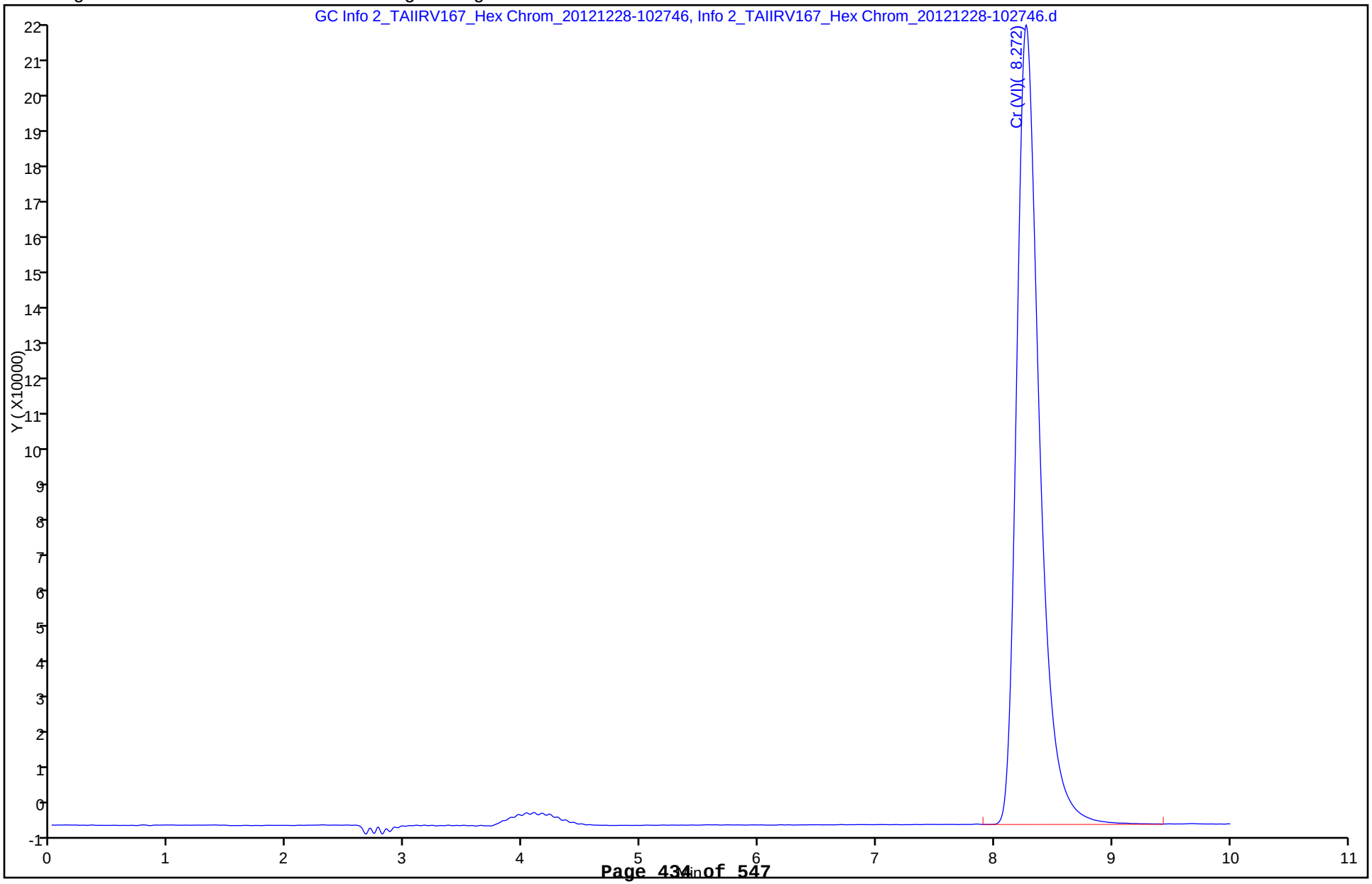
Report Date: 28-Dec-2012 11:08:08 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-102746.d

| | | | |
|---|---|---|---|
| Injection Date: | 28-Dec-2012 10:15:00 | Limit Group: | IC-7199 |
| Client ID: | | Instrument ID: | IC-16 |
| Lims Batch ID: | 75938 | Lims Sample ID: | 26 |
| Operator ID: | irvinorg | Injection Vol: | 1.0 ul |
| Column Type: | | Column Dia: | |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Irvine
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d | | |
| Lims ID: | STD8 | Client ID: | |
| Inject. Date: | 28-Dec-2012 10:27:00 | Dil. Factor: | 1.0000 |
| Sample Type: | IC | Calib Level: | 7 |
| Sample ID: | 440-0016809-027 | | |
| Misc. Info.: | 440-0016809-027 | | |
| Operator: | irvinorg | Instrument ID: | IC-16 |
| Injection Vol: | 1.0 ul | ALS Bottle#: | 0 |
| Lims Batch ID: | 75938 | Lims Sample ID: | 27 |
| Sublist: | chrom-218.6_16*sub1 | | |
| Raw Data: | Smoothed | | |
| Detector: | GC Info 2_TAIIRV167_Hex Chrom_20121228-104026 | | |
| Method: | \\Irvchrom\ChromData\IC16\20121228-16809.b\218.6_16.m | | |
| Method Label: | HEX CHROME | | |
| Last Update: | 28-Dec-2012 11:08:09 | Calib Date: | 28-Dec-2012 10:27:00 |
| Quant Method: | External Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d | | |
| Limit Group: | IC-7199 | | |
| Integrator: | Falcon | | |
| Column Type: | | Column Dia: | |
| Process Host: | XAWRK024 | | |

| Compound | RT | EXP RT | DLT RT | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|
| 1 Cr (VI) | 8.293 | 8.262 | 0.031 | 3768733 | 99.6 | |

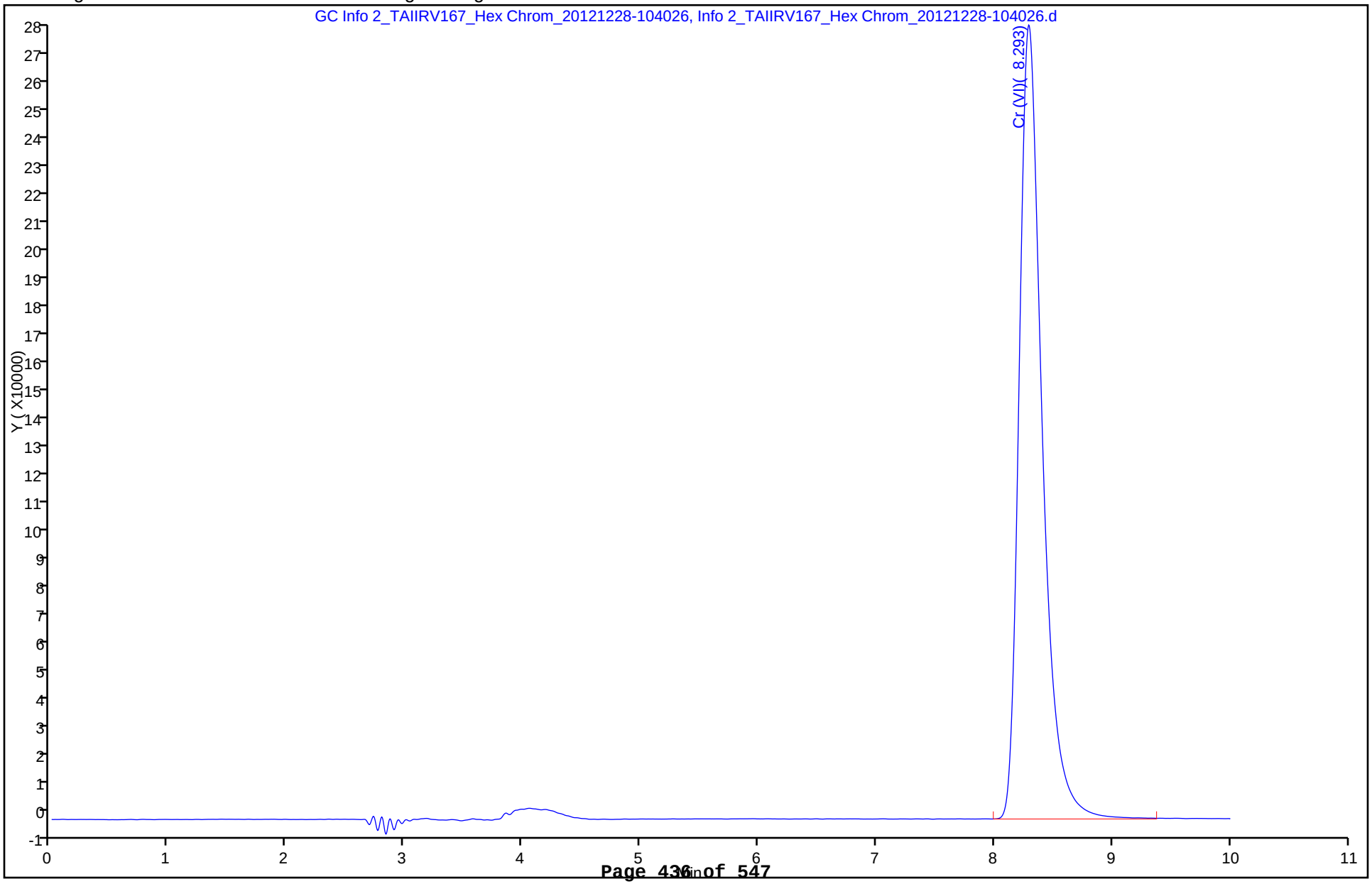
Report Date: 28-Dec-2012 11:08:09 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d

| | | | |
|---|---|---|---|
| Injection Date: | 28-Dec-2012 10:27:00 | Limit Group: | IC-7199 |
| Client ID: | | Instrument ID: | IC-16 |
| Lims Batch ID: | 75938 | Lims Sample ID: | 27 |
| Operator ID: | irvinorg | Injection Vol: | 1.0 ul |
| Column Type: | | Column Dia: | |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Irvine Job No.: 480-29976-1

SDG No.:

Lab Sample ID: ICV 440-75938/29 Calibration Date: 12/28/2012 11:01

Instrument ID: IC-16 Calib Start Date: 12/28/2012 08:59

GC Column: AS7 ID: 4.00(mm) Calib End Date: 12/28/2012 10:27

Lab File ID: Info 2_TAIIRV167_Hex Conc. Units: ug/L

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %REC | %REC LIMITS |
|---|---|---|---|---|---|---|---|---|
| Cr (VI) | Lin | | | | 50.9 | 50.0 | 102 | 90-110 |

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Irvine Job No.: 480-29976-1

SDG No.:

Lab Sample ID: ICV 440-75938/29 Calibration Date: 12/28/2012 11:01

Instrument ID: IC-16 Calib Start Date: 12/28/2012 08:59

GC Column: AS7 ID: 4.00(mm) Calib End Date: 12/28/2012 10:27

Lab File ID: Info 2_TAIIRV167_Hex

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | FROM | TO |
| Cr (VI) | 8.29 | 7.85 | 8.68 |

Report Date: 28-Dec-2012 11:24:45 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-111406.d | | |
| Lims ID: | icv | Client ID: | |
| Inject. Date: | 28-Dec-2012 11:01:00 | Dil. Factor: | 1.0000 |
| Sample Type: | ICV | | |
| Sample ID: | 440-0016809-029 | | |
| Misc. Info.: | 440-0016809-029 | | |
| Operator: | irvinorg | Instrument ID: | IC-16 |
| Injection Vol: | 1.0 ul | ALS Bottle#: | 0 |
| Lims Batch ID: | 75938 | Lims Sample ID: | 29 |
| Sublist: | | | |
| Raw Data: | Smoothed | | |
| Detector: | GC Info 2_TAIIRV167_Hex Chrom_20121228-111406 | | |
| Method: | \\Irvchrom\ChromData\IC16\20121228-16809.b\218.6_16.m | | |
| Method Label: | HEX CHROME | | |
| Last Update: | 28-Dec-2012 12:15:52 | Calib Date: | 28-Dec-2012 10:27:00 |
| Quant Method: | External Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d | | |
| Limit Group: | IC-7199 | | |
| Integrator: | Falcon | | |
| Column Type: | | Column Dia: | |
| Process Host: | XAWRK024 | | |

First Level Reviewer: phamq Date: 28-Dec-2012 11:24:44

| Compound | RT | EXP RT | DLT RT | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|
| 1 Cr (VI) | 8.287 | 8.262 | 0.025 | 1929533 | 50.9 | |

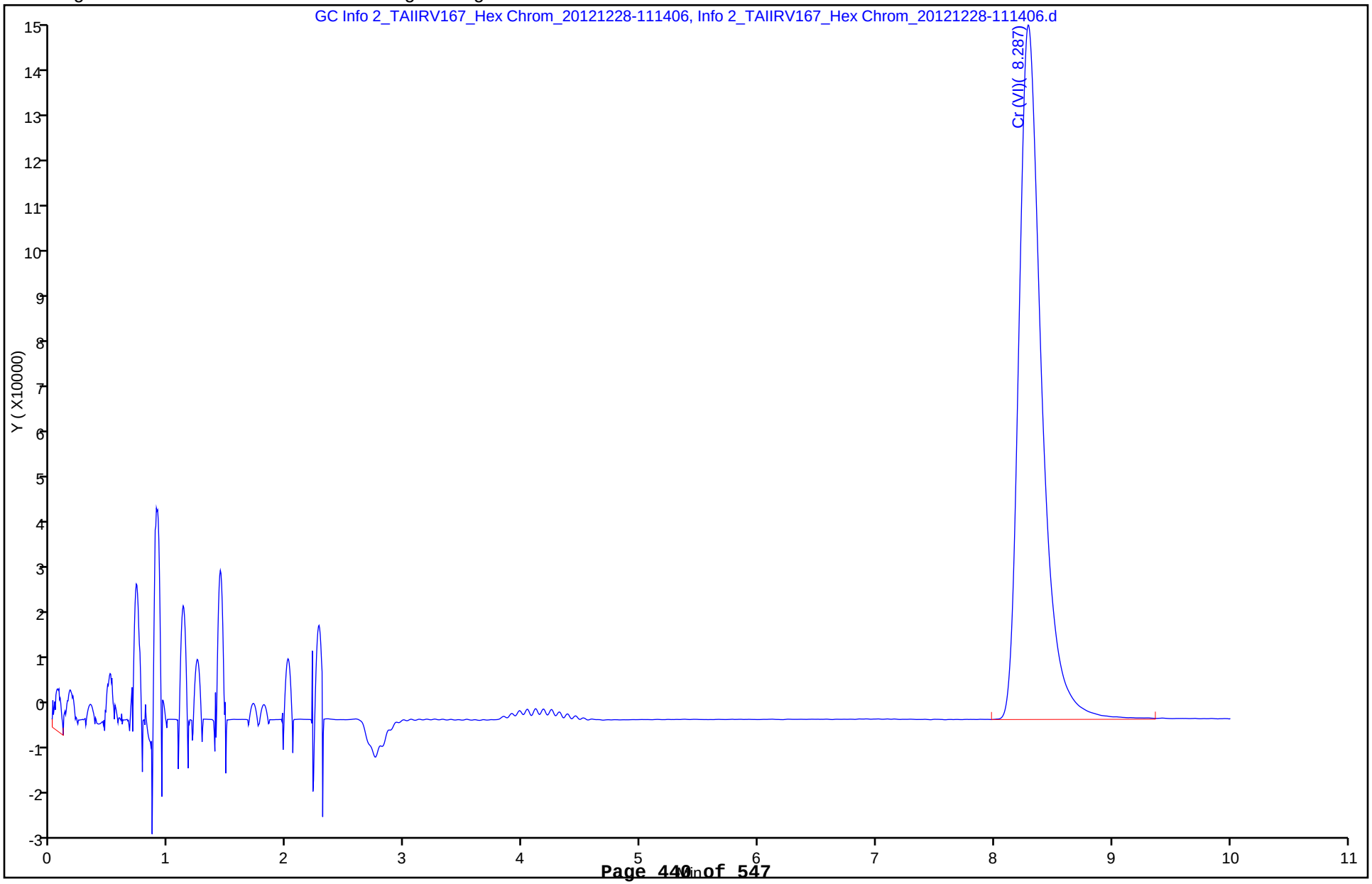
Report Date: 28-Dec-2012 11:24:45 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-111406.d

| | | | |
|---|---|---|---|
| Injection Date: | 28-Dec-2012 11:01:00 | Limit Group: | IC-7199 |
| Client ID: | | Instrument ID: | IC-16 |
| Lims Batch ID: | 75938 | Lims Sample ID: | 29 |
| Operator ID: | irvinorg | Injection Vol: | 1.0 ul |
| Column Type: | | Column Dia: | |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Irvine Job No.: 480-29976-1

SDG No.:

Lab Sample ID: CCV 440-77008/52 Calibration Date: 01/05/2013 02:15

Instrument ID: IC-16 Calib Start Date: 12/28/2012 08:59

GC Column: AS7 ID: 4.00(mm) Calib End Date: 12/28/2012 10:27

Lab File ID: Info 2_TAIIRV167_Hex Conc. Units: ug/L

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %REC | %REC LIMITS |
|---|---|---|---|---|---|---|---|---|
| Cr (VI) | Lin | | | | 50.5 | 50.0 | 101 | 90-110 |

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Irvine Job No.: 480-29976-1

SDG No.:

Lab Sample ID: CCV 440-77008/52 Calibration Date: 01/05/2013 02:15

Instrument ID: IC-16 Calib Start Date: 12/28/2012 08:59

GC Column: AS7 ID: 4.00(mm) Calib End Date: 12/28/2012 10:27

Lab File ID: Info 2_TAIIRV167_Hex

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | FROM | TO |
| Cr (VI) | 8.20 | 7.85 | 8.68 |

TestAmerica Irvine
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-022816.d | | |
| Lims ID: | ccv | Client ID: | |
| Inject. Date: | 05-Jan-2013 02:15:00 | Dil. Factor: | 1.0000 |
| Sample Type: | CCV | | |
| Sample ID: | 440-0017050-052 | | |
| Misc. Info.: | 440-0017050-052 | | |
| Operator: | irvinorg | Instrument ID: | IC-16 |
| Injection Vol: | 1.0 ul | ALS Bottle#: | 0 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 52 |
| Sublist: | chrom-218.6_16*sub1 | | |
| Raw Data: | Smoothed | | |
| Detector: | GC Info 2_TAIIRV167_Hex Chrom_20130105-022816 | | |
| Method: | \\Irvchrom\ChromData\IC16\20130104-17050.b\218.6_16.m | | |
| Method Label: | HEX CHROME | | |
| Last Update: | 05-Jan-2013 07:47:05 | Calib Date: | 28-Dec-2012 10:27:00 |
| Quant Method: | External Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d | | |
| Limit Group: | IC-7199 | | |
| Integrator: | Falcon | | |
| Column Type: | | Column Dia: | |
| Process Host: | XAWRK036 | | |

First Level Reviewer: nikbakhtm Date: 05-Jan-2013 07:47:05

| Compound | RT | EXP RT | DLT RT | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|
| 1 Cr (VI) | 8.200 | 8.262 | -0.062 | 1915036 | 50.5 | |

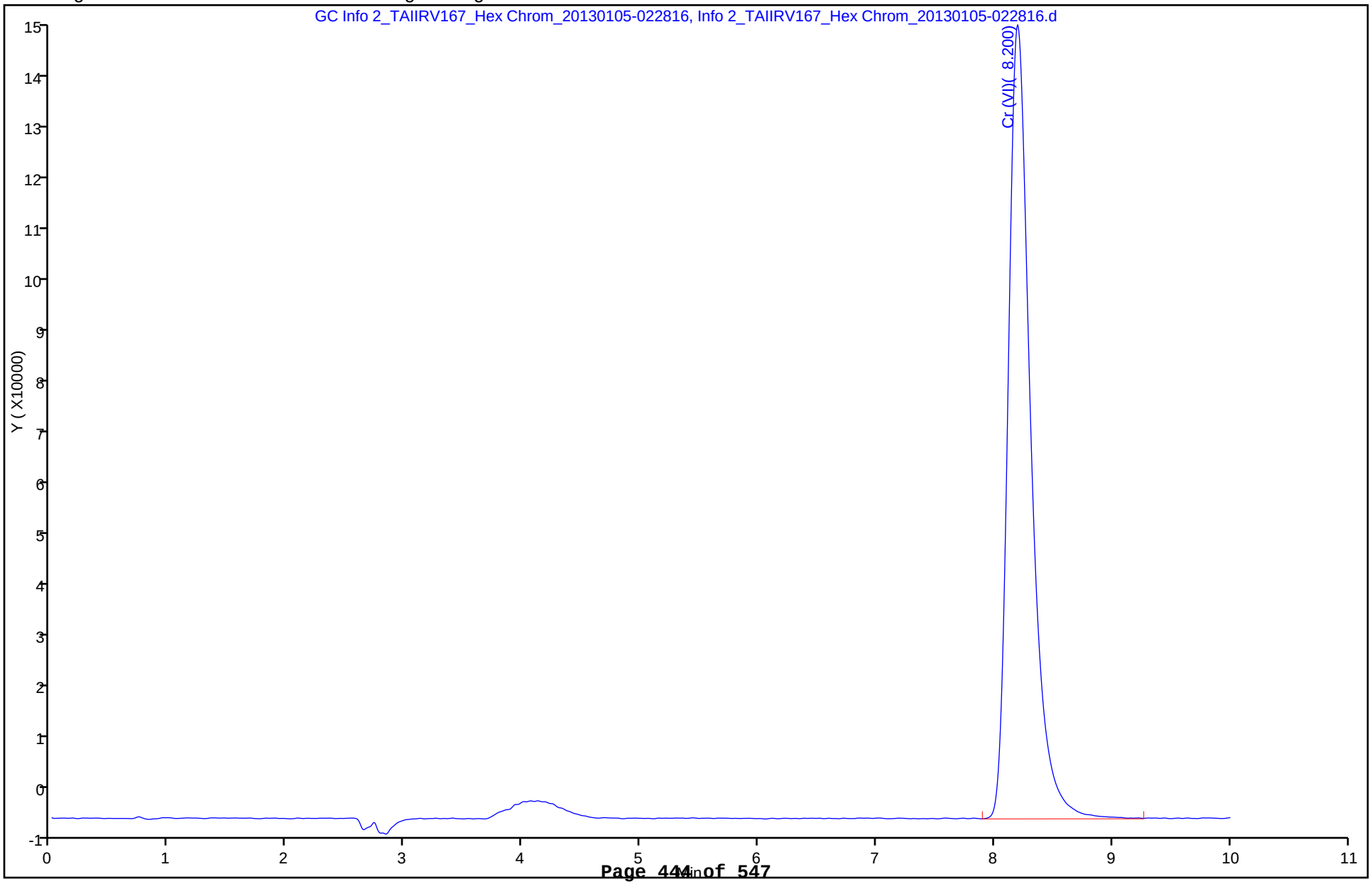
Report Date: 05-Jan-2013 07:47:05 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-022816.d

| | | | |
|---|---|---|---|
| Injection Date: | 05-Jan-2013 02:15:00 | Limit Group: | IC-7199 |
| Client ID: | | Instrument ID: | IC-16 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 52 |
| Operator ID: | irvinorg | Injection Vol: | 1.0 ul |
| Column Type: | | Column Dia: | |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Irvine Job No.: 480-29976-1

SDG No.:

Lab Sample ID: CCV 440-77008/64 Calibration Date: 01/05/2013 04:47

Instrument ID: IC-16 Calib Start Date: 12/28/2012 08:59

GC Column: AS7 ID: 4.00(mm) Calib End Date: 12/28/2012 10:27

Lab File ID: Info 2_TAIIRV167_Hex Conc. Units: ug/L

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %REC | %REC LIMITS |
|---|---|---|---|---|---|---|---|---|
| Cr (VI) | Lin | | | | 49.8 | 50.0 | 100 | 90-110 |

FORM VII 7199

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Irvine Job No.: 480-29976-1

SDG No.:

Lab Sample ID: CCV 440-77008/64 Calibration Date: 01/05/2013 04:47

Instrument ID: IC-16 Calib Start Date: 12/28/2012 08:59

GC Column: AS7 ID: 4.00(mm) Calib End Date: 12/28/2012 10:27

Lab File ID: Info 2_TAIIRV167_Hex

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | FROM | TO |
| Cr (VI) | 8.19 | 7.85 | 8.68 |

TestAmerica Irvine
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-050010.d | | |
| Lims ID: | ccv | Client ID: | |
| Inject. Date: | 05-Jan-2013 04:47:00 | Dil. Factor: | 1.0000 |
| Sample Type: | CCV | | |
| Sample ID: | 440-0017050-064 | | |
| Misc. Info.: | 440-0017050-064 | | |
| Operator: | irvinorg | Instrument ID: | IC-16 |
| Injection Vol: | 1.0 ul | ALS Bottle#: | 0 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 64 |
| Sublist: | chrom-218.6_16*sub1 | | |
| Raw Data: | Smoothed | | |
| Detector: | GC Info 2_TAIIRV167_Hex Chrom_20130105-050010 | | |
| Method: | \\Irvchrom\ChromData\IC16\20130104-17050.b\218.6_16.m | | |
| Method Label: | HEX CHROME | | |
| Last Update: | 05-Jan-2013 08:27:24 | Calib Date: | 28-Dec-2012 10:27:00 |
| Quant Method: | External Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d | | |
| Limit Group: | IC-7199 | | |
| Integrator: | Falcon | | |
| Column Type: | | Column Dia: | |
| Process Host: | XAWRK036 | | |

First Level Reviewer: nikbakhtm Date: 05-Jan-2013 08:27:24

| Compound | RT | EXP RT | DLT RT | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|
| 1 Cr (VI) | 8.194 | 8.262 | -0.068 | 1887913 | 49.8 | |

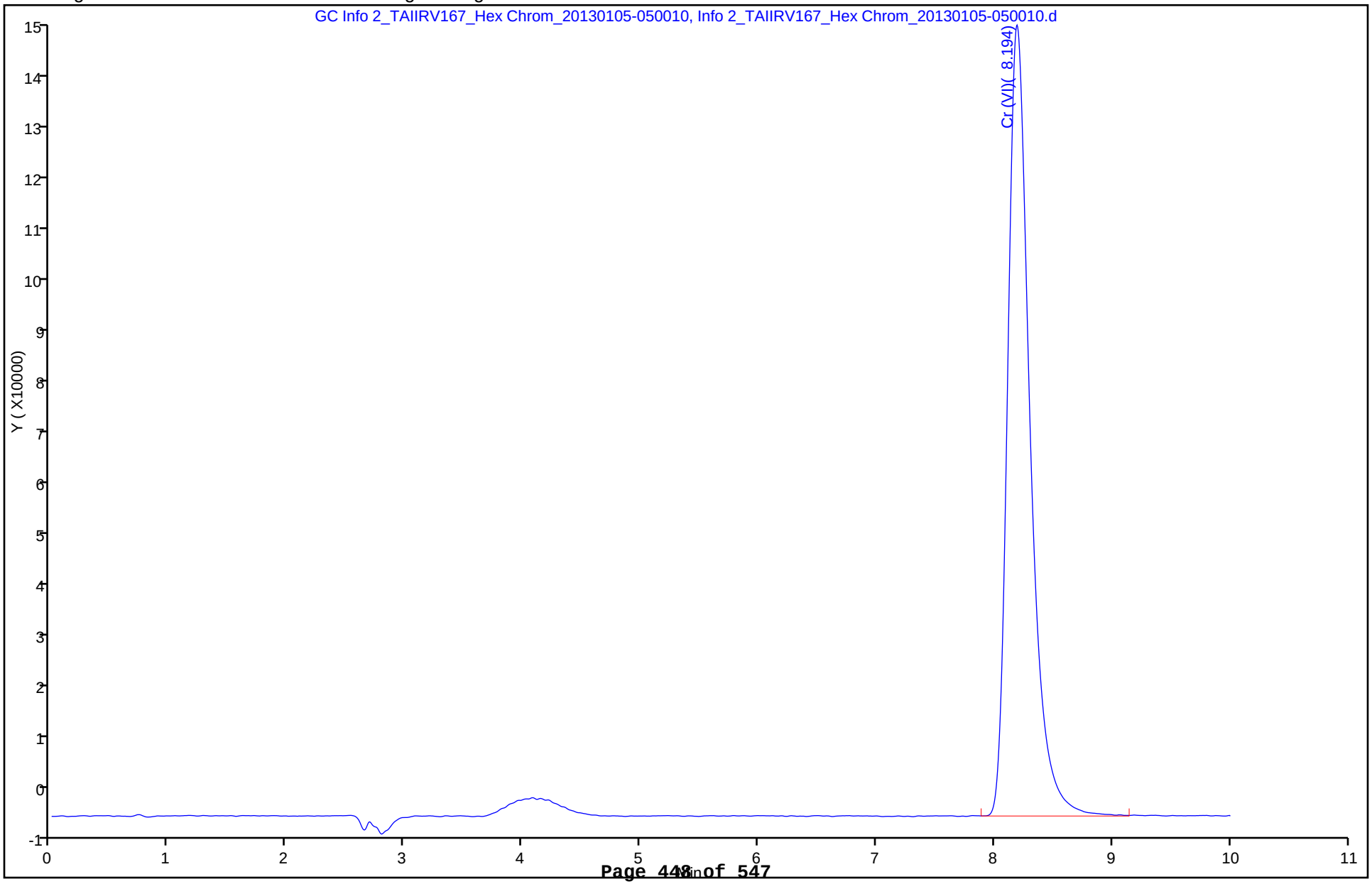
Report Date: 05-Jan-2013 08:27:24 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-050010.d

| | | | |
|---|---|---|---|
| Injection Date: | 05-Jan-2013 04:47:00 | Limit Group: | IC-7199 |
| Client ID: | | Instrument ID: | IC-16 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 64 |
| Operator ID: | irvinorg | Injection Vol: | 1.0 ul |
| Column Type: | | Column Dia: | |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Irvine Job No.: 480-29976-1

SDG No.:

Lab Sample ID: CCV 440-77008/68 Calibration Date: 01/05/2013 05:38

Instrument ID: IC-16 Calib Start Date: 12/28/2012 08:59

GC Column: AS7 ID: 4.00(mm) Calib End Date: 12/28/2012 10:27

Lab File ID: Info 2_TAIIRV167_Hex Conc. Units: ug/L

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %REC | %REC LIMITS |
|---|---|---|---|---|---|---|---|---|
| Cr (VI) | Lin | | | | 50.1 | 50.0 | 100 | 90-110 |

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Irvine Job No.: 480-29976-1

SDG No.:

Lab Sample ID: CCV 440-77008/68 Calibration Date: 01/05/2013 05:38

Instrument ID: IC-16 Calib Start Date: 12/28/2012 08:59

GC Column: AS7 ID: 4.00(mm) Calib End Date: 12/28/2012 10:27

Lab File ID: Info 2_TAIIRV167_Hex

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | FROM | TO |
| Cr (VI) | 8.19 | 7.85 | 8.68 |

TestAmerica Irvine
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-055049.d | | |
| Lims ID: | ccv | Client ID: | |
| Inject. Date: | 05-Jan-2013 05:38:00 | Dil. Factor: | 1.0000 |
| Sample Type: | CCV | | |
| Sample ID: | 440-0017050-068 | | |
| Misc. Info.: | 440-0017050-068 | | |
| Operator: | irvinorg | Instrument ID: | IC-16 |
| Injection Vol: | 1.0 ul | ALS Bottle#: | 0 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 68 |
| Sublist: | chrom-218.6_16*sub1 | | |
| Raw Data: | Smoothed | | |
| Detector: | GC Info 2_TAIIRV167_Hex Chrom_20130105-055049 | | |
| Method: | \\Irvchrom\ChromData\IC16\20130104-17050.b\218.6_16.m | | |
| Method Label: | HEX CHROME | | |
| Last Update: | 05-Jan-2013 08:27:57 | Calib Date: | 28-Dec-2012 10:27:00 |
| Quant Method: | External Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d | | |
| Limit Group: | IC-7199 | | |
| Integrator: | Falcon | | |
| Column Type: | | Column Dia: | |
| Process Host: | XAWRK036 | | |

First Level Reviewer: nikbakhtm Date: 05-Jan-2013 08:27:57

| Compound | RT | EXP RT | DLT RT | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|
| 1 Cr (VI) | 8.189 | 8.262 | -0.073 | 1898649 | 50.1 | |

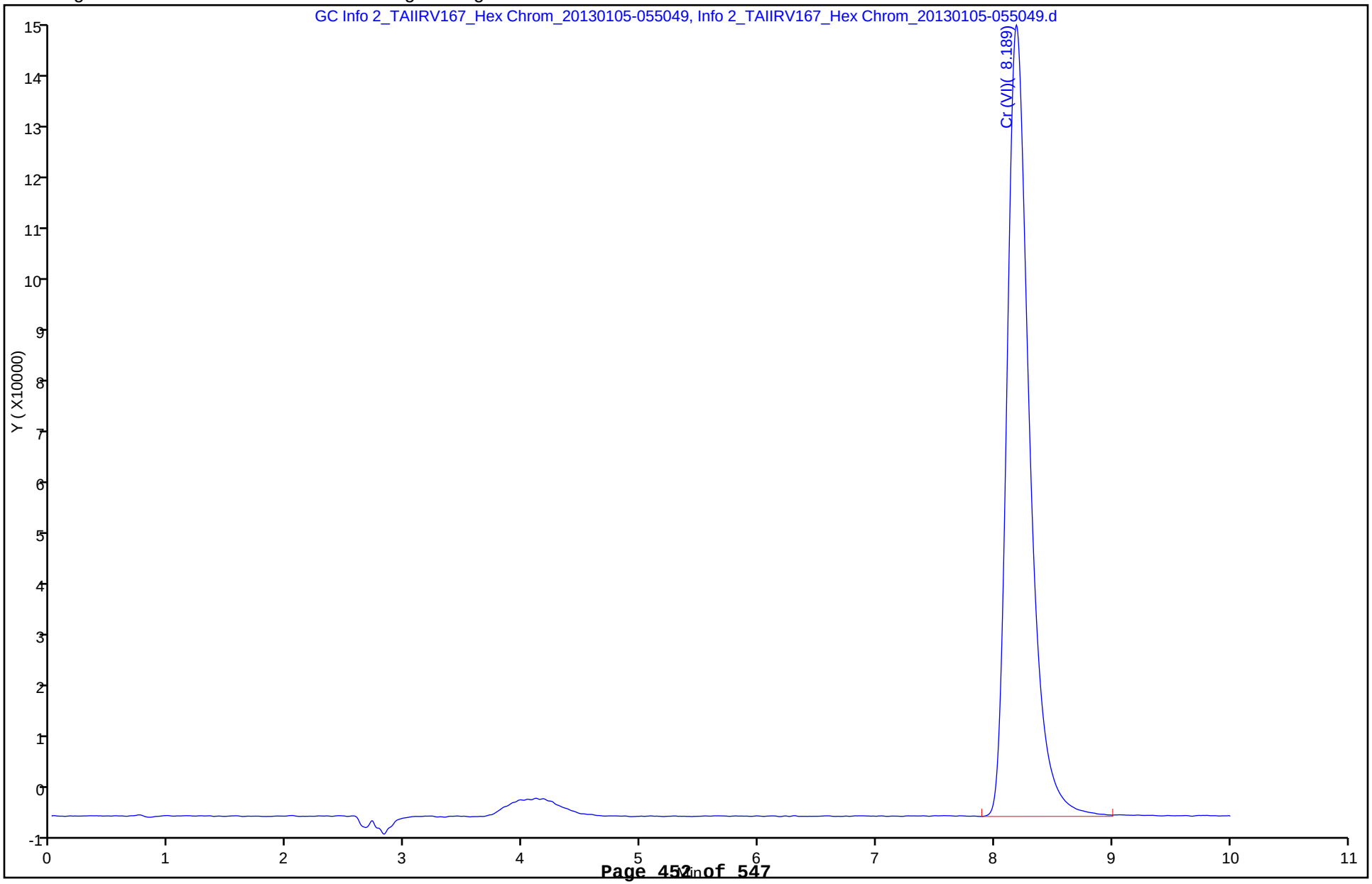
Report Date: 05-Jan-2013 08:27:58 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-055049.d

| | | | |
|---|---|---|---|
| Injection Date: | 05-Jan-2013 05:38:00 | Limit Group: | IC-7199 |
| Client ID: | | Instrument ID: | IC-16 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 68 |
| Operator ID: | irvinorg | Injection Vol: | 1.0 ul |
| Column Type: | | Column Dia: | |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Irvine Job No.: 480-29976-1

SDG No.:

Lab Sample ID: CCV 440-77008/71 Calibration Date: 01/05/2013 07:56

Instrument ID: IC-16 Calib Start Date: 12/28/2012 08:59

GC Column: AS7 ID: 4.00(mm) Calib End Date: 12/28/2012 10:27

Lab File ID: Info 2_TAIIRV167_Hex Conc. Units: ug/L

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %REC | %REC LIMITS |
|---|---|---|---|---|---|---|---|---|
| Cr (VI) | Lin | | | | 48.4 | 50.0 | 97 | 90-110 |

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Irvine Job No.: 480-29976-1

SDG No.:

Lab Sample ID: CCV 440-77008/71 Calibration Date: 01/05/2013 07:56

Instrument ID: IC-16 Calib Start Date: 12/28/2012 08:59

GC Column: AS7 ID: 4.00(mm) Calib End Date: 12/28/2012 10:27

Lab File ID: Info 2_TAIIRV167_Hex

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | FROM | TO |
| Cr (VI) | 8.37 | 7.85 | 8.68 |

TestAmerica Irvine
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-080843.d | | |
| Lims ID: | ccv | Client ID: | |
| Inject. Date: | 05-Jan-2013 07:56:00 | Dil. Factor: | 1.0000 |
| Sample Type: | CCV | | |
| Sample ID: | 440-0017050-071 | | |
| Misc. Info.: | 440-0017050-071 | | |
| Operator: | irvinorg | Instrument ID: | IC-16 |
| Injection Vol: | 1.0 ul | ALS Bottle#: | 0 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 71 |
| Sublist: | chrom-218.6_16*sub1 | | |
| Raw Data: | Smoothed | | |
| Detector: | GC Info 2_TAIIRV167_Hex Chrom_20130105-080843 | | |
| Method: | \\Irvchrom\ChromData\IC16\20130104-17050.b\218.6_16.m | | |
| Method Label: | HEX CHROME | | |
| Last Update: | 05-Jan-2013 08:28:18 | Calib Date: | 28-Dec-2012 10:27:00 |
| Quant Method: | External Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d | | |
| Limit Group: | IC-7199 | | |
| Integrator: | Falcon | | |
| Column Type: | | Column Dia: | |
| Process Host: | XAWRK036 | | |

First Level Reviewer: nikbakhtm Date: 05-Jan-2013 08:28:18

| Compound | RT | EXP RT | DLT RT | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|
| 1 Cr (VI) | 8.365 | 8.262 | 0.103 | 1834672 | 48.4 | |

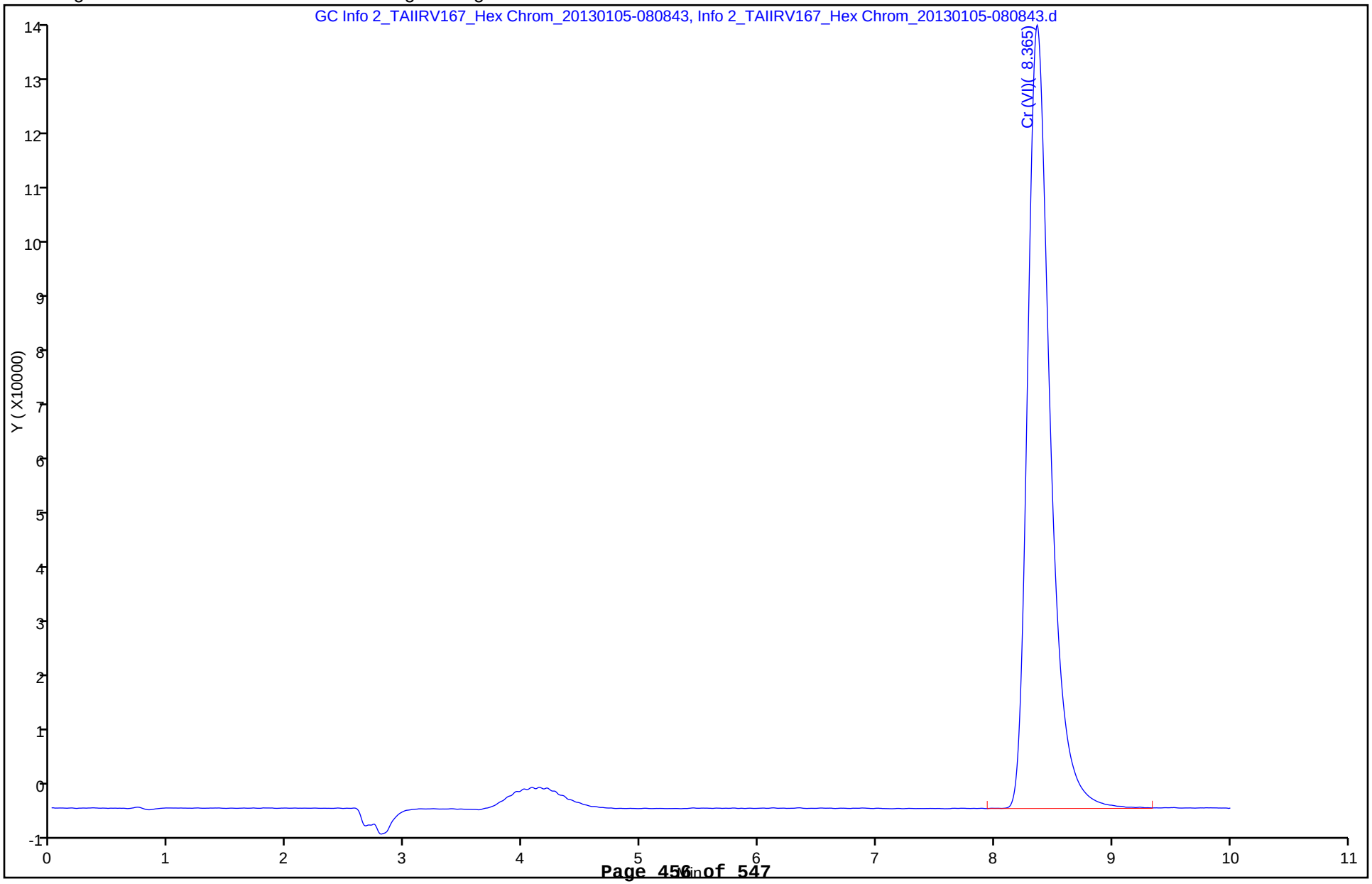
Report Date: 05-Jan-2013 08:28:18 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-080843.d

| | | | |
|---|---|---|---|
| Injection Date: | 05-Jan-2013 07:56:00 | Limit Group: | IC-7199 |
| Client ID: | | Instrument ID: | IC-16 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 71 |
| Operator ID: | irvinorg | Injection Vol: | 1.0 ul |
| Column Type: | | Column Dia: | |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Irvine Job No.: 480-29976-1

SDG No.:

Lab Sample ID: CCV 440-77008/78 Calibration Date: 01/05/2013 09:26

Instrument ID: IC-16 Calib Start Date: 12/28/2012 08:59

GC Column: AS7 ID: 4.00(mm) Calib End Date: 12/28/2012 10:27

Lab File ID: Info 2_TAIIRV167_Hex Conc. Units: ug/L

| ANALYTE | CURVE TYPE | AVE CF | CF | MIN CF | CALC AMOUNT | SPIKE AMOUNT | %REC | %REC LIMITS |
|---|---|---|---|---|---|---|---|---|
| Cr (VI) | Lin | | | | 47.8 | 50.0 | 96 | 90-110 |

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Irvine Job No.: 480-29976-1

SDG No.:

Lab Sample ID: CCV 440-77008/78 Calibration Date: 01/05/2013 09:26

Instrument ID: IC-16 Calib Start Date: 12/28/2012 08:59

GC Column: AS7 ID: 4.00(mm) Calib End Date: 12/28/2012 10:27

Lab File ID: Info 2_TAIIRV167_Hex

| Analyte | RT | RT WINDOW | |
|---|---|---|---|
| | | FROM | TO |
| Cr (VI) | 8.19 | 7.85 | 8.68 |

TestAmerica Irvine
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-093845.d | | |
| Lims ID: | ccv | Client ID: | |
| Inject. Date: | 05-Jan-2013 09:26:00 | Dil. Factor: | 1.0000 |
| Sample Type: | CCV | | |
| Sample ID: | 440-0017050-078 | | |
| Misc. Info.: | 440-0017050-078 | | |
| Operator: | irvinorg | Instrument ID: | IC-16 |
| Injection Vol: | 1.0 ul | ALS Bottle#: | 0 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 78 |
| Sublist: | chrom-218.6_16*sub1 | | |
| Raw Data: | Smoothed | | |
| Detector: | GC Info 2_TAIIRV167_Hex Chrom_20130105-093845 | | |
| Method: | \\Irvchrom\ChromData\IC16\20130104-17050.b\218.6_16.m | | |
| Method Label: | HEX CHROME | | |
| Last Update: | 05-Jan-2013 09:42:31 | Calib Date: | 28-Dec-2012 10:27:00 |
| Quant Method: | External Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d | | |
| Limit Group: | IC-7199 | | |
| Integrator: | Falcon | | |
| Column Type: | | Column Dia: | |
| Process Host: | XAWRK036 | | |

First Level Reviewer: nikbakhtm Date: 05-Jan-2013 09:42:31

| Compound | RT | EXP RT | DLT RT | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|
| 1 Cr (VI) | 8.194 | 8.262 | -0.068 | 1810817 | 47.8 | |

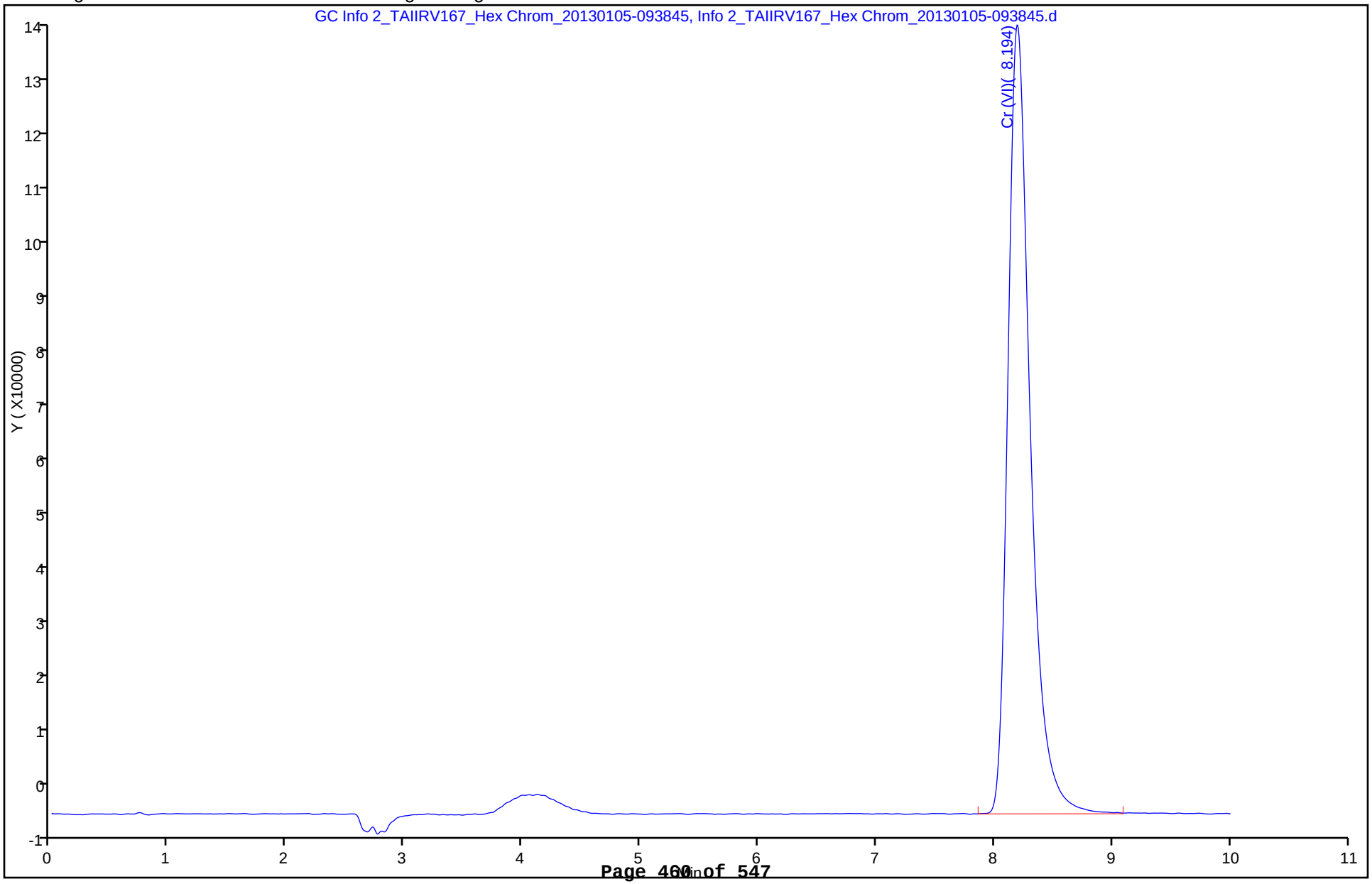
Report Date: 05-Jan-2013 09:42:31 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-093845.d

| | | | |
|---|---|---|---|
| Injection Date: | 05-Jan-2013 09:26:00 | Limit Group: | IC-7199 |
| Client ID: | | Instrument ID: | IC-16 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 78 |
| Operator ID: | irvinorg | Injection Vol: | 1.0 ul |
| Column Type: | | Column Dia: | |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-29976-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 440-77069/1-A
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected:
Extraction Method: 3060A
Date Extracted: 01/04/2013 10:56
Sample wt/vol: 1.25(g)
Date Analyzed: 01/05/2013 02:40
Con. Extract Vol.: 50(mL)
Dilution Factor: 10
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 77008
Units: mg/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 18540-29-9 | Cr (VI) | ND | | 0.20 | 0.15 |

TestAmerica Irvine
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-025335.d | | |
| Lims ID: | MB 440-77069/1-A | Client ID: | |
| Inject. Date: | 05-Jan-2013 02:40:00 | Dil. Factor: | 10.0000 |
| Sample Type: | MB | | |
| Sample ID: | 440-0017050-054 | | |
| Misc. Info.: | 440-0017050-054 | | |
| Operator: | irvinorg | Instrument ID: | IC-16 |
| Injection Vol: | 1.0 ul | ALS Bottle#: | 0 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 54 |
| Raw Data: | Smoothed | | |
| Detector: | GC Info 2_TAIIRV167_Hex Chrom_20130105-025335 | | |
| Method: | \\Irvchrom\ChromData\IC16\20130104-17050.b\218.6_16.m | | |
| Method Label: | HEX CHROME | | |
| Last Update: | 05-Jan-2013 09:42:31 | Calib Date: | 28-Dec-2012 10:27:00 |
| Quant Method: | External Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d | | |
| Limit Group: | IC-7199 | | |
| Integrator: | Falcon | | |
| Column Type: | | Column Dia: | |
| Process Host: | XAWRK015 | | |

First Level Reviewer: nikbakhtm Date: 05-Jan-2013 08:26:07

| Compound | RT | EXP RT | DLT RT | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|

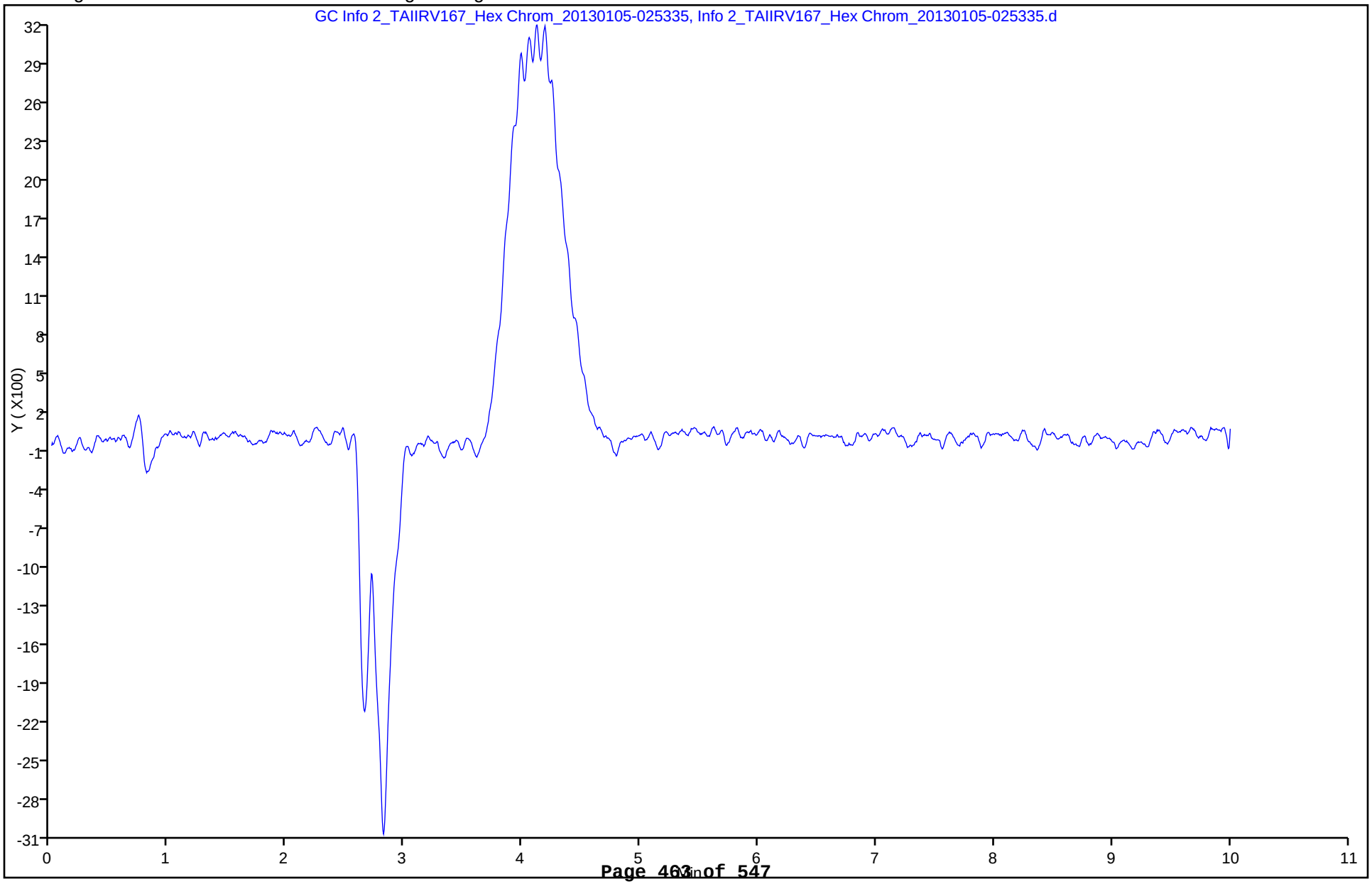
Report Date: 07-Jan-2013 10:35:41 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-025335.d

| | | | |
|---|---|---|---|
| Injection Date: | 05-Jan-2013 02:40:00 | Limit Group: | IC-7199 |
| Client ID: | | Instrument ID: | IC-16 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 54 |
| Operator ID: | irvinorg | Injection Vol: | 1.0 ul |
| Column Type: | | Column Dia: | |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-29976-1
SDG No.:
Client Sample ID:
Lab Sample ID: CCB 440-77008/53
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected:
Extraction Method:
Date Extracted:
Sample wt/vol: 10(mL)
Date Analyzed: 01/05/2013 02:28
Con. Extract Vol.:
Dilution Factor: 1
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 77008
Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 18540-29-9 | Cr (VI) | ND | | 2.0 | 0.25 |

TestAmerica Irvine
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-024055.d | | |
| Lims ID: | ccb | Client ID: | |
| Inject. Date: | 05-Jan-2013 02:28:00 | Dil. Factor: | 1.0000 |
| Sample Type: | CCB | | |
| Sample ID: | 440-0017050-053 | | |
| Misc. Info.: | 440-0017050-053 | | |
| Operator: | irvinorg | Instrument ID: | IC-16 |
| Injection Vol: | 1.0 ul | ALS Bottle#: | 0 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 53 |
| Raw Data: | Smoothed | | |
| Detector: | GC Info 2_TAIIRV167_Hex Chrom_20130105-024055 | | |
| Method: | \\Irvchrom\ChromData\IC16\20130104-17050.b\218.6_16.m | | |
| Method Label: | HEX CHROME | | |
| Last Update: | 05-Jan-2013 08:28:18 | Calib Date: | 28-Dec-2012 10:27:00 |
| Quant Method: | External Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d | | |
| Limit Group: | IC-7199 | | |
| Integrator: | Falcon | | |
| Column Type: | | Column Dia: | |
| Process Host: | XAWRK036 | | |

First Level Reviewer: nikbakhtm Date: 05-Jan-2013 07:47:10

| Compound | RT | EXP RT | DLT RT | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|

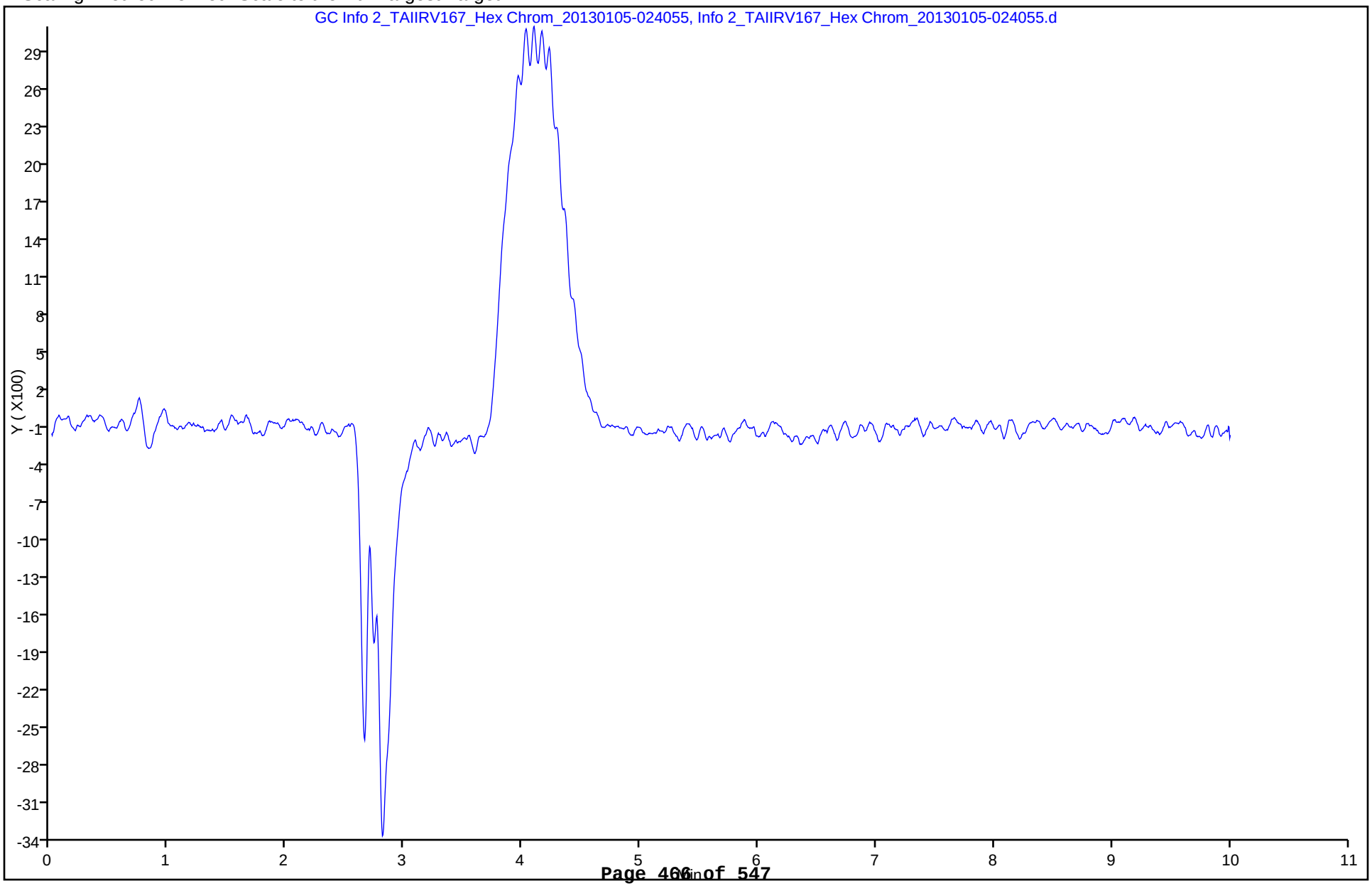
Report Date: 05-Jan-2013 08:29:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-024055.d

| | | | |
|---|---|---|---|
| Injection Date: | 05-Jan-2013 02:28:00 | Limit Group: | IC-7199 |
| Client ID: | | Instrument ID: | IC-16 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 53 |
| Operator ID: | irvinorg | Injection Vol: | 1.0 ul |
| Column Type: | | Column Dia: | |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-29976-1
SDG No.:
Client Sample ID:
Lab Sample ID: CCB 440-77008/65
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected:
Extraction Method:
Date Extracted:
Sample wt/vol: 10(mL)
Date Analyzed: 01/05/2013 05:00
Con. Extract Vol.:
Dilution Factor: 1
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 77008
Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 18540-29-9 | Cr (VI) | ND | | 2.0 | 0.25 |

TestAmerica Irvine
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-051250.d | | |
| Lims ID: | ccb | Client ID: | |
| Inject. Date: | 05-Jan-2013 05:00:00 | Dil. Factor: | 1.0000 |
| Sample Type: | CCB | | |
| Sample ID: | 440-0017050-065 | | |
| Misc. Info.: | 440-0017050-065 | | |
| Operator: | irvinorg | Instrument ID: | IC-16 |
| Injection Vol: | 1.0 ul | ALS Bottle#: | 0 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 65 |
| Raw Data: | Smoothed | | |
| Detector: | GC Info 2_TAIIRV167_Hex Chrom_20130105-051250 | | |
| Method: | \\Irvchrom\ChromData\IC16\20130104-17050.b\218.6_16.m | | |
| Method Label: | HEX CHROME | | |
| Last Update: | 05-Jan-2013 08:27:24 | Calib Date: | 28-Dec-2012 10:27:00 |
| Quant Method: | External Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d | | |
| Limit Group: | IC-7199 | | |
| Integrator: | Falcon | | |
| Column Type: | | Column Dia: | |
| Process Host: | XAWRK036 | | |

First Level Reviewer: nikbakhtm Date: 05-Jan-2013 08:27:32

| Compound | RT | EXP RT | DLT RT | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|

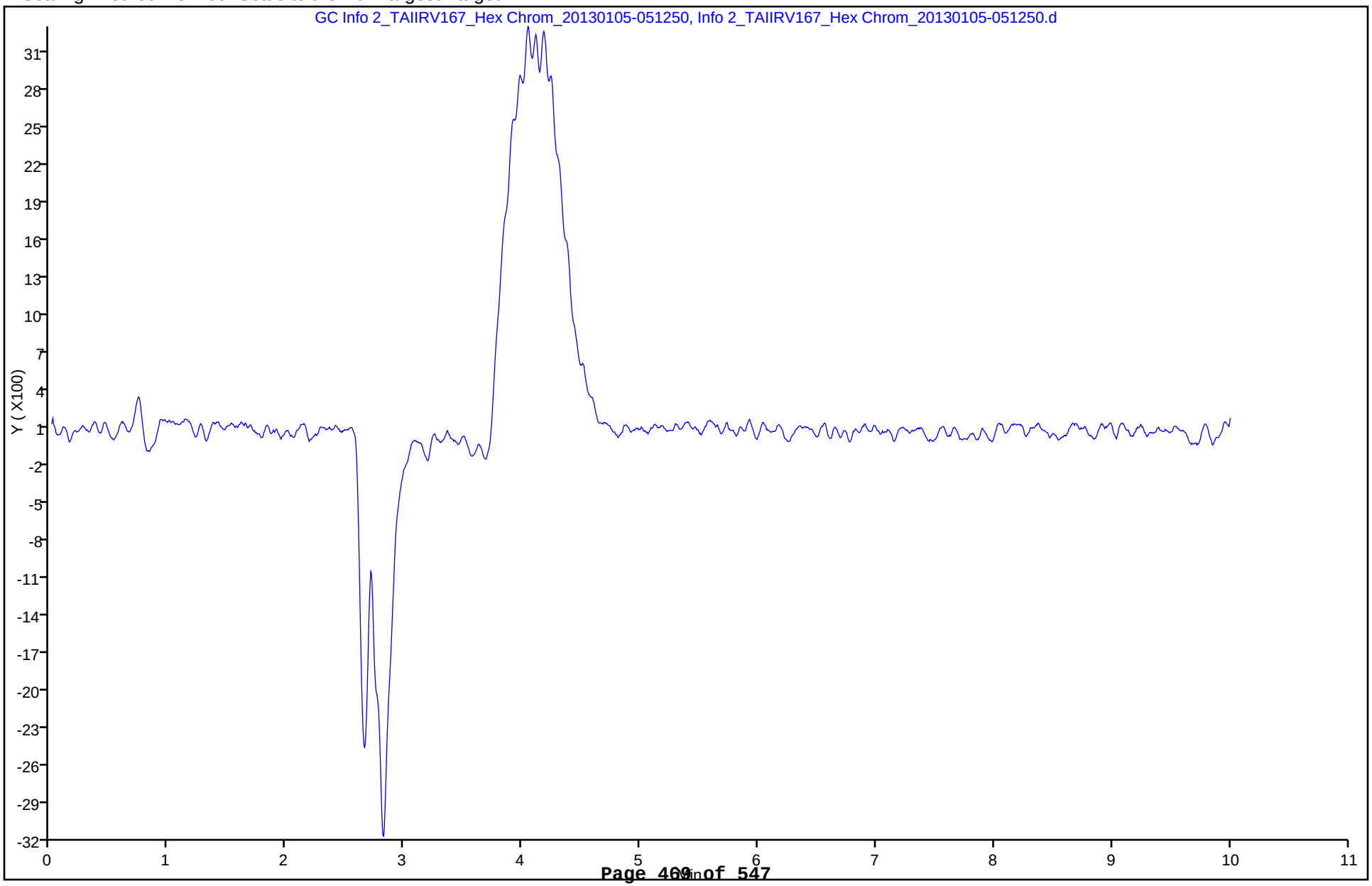
Report Date: 05-Jan-2013 08:27:33 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-051250.d

| | | | |
|---|---|---|---|
| Injection Date: | 05-Jan-2013 05:00:00 | Limit Group: | IC-7199 |
| Client ID: | | Instrument ID: | IC-16 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 65 |
| Operator ID: | irvinorg | Injection Vol: | 1.0 ul |
| Column Type: | | Column Dia: | |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-29976-1
SDG No.:
Client Sample ID:
Lab Sample ID: CCB 440-77008/69
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected:
Extraction Method:
Date Extracted:
Sample wt/vol: 10(mL)
Date Analyzed: 01/05/2013 05:50
Con. Extract Vol.:
Dilution Factor: 1
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 77008
Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 18540-29-9 | Cr (VI) | ND | | 2.0 | 0.25 |

Report Date: 05-Jan-2013 08:28:06 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-060328.d | | |
| Lims ID: | ccb | Client ID: | |
| Inject. Date: | 05-Jan-2013 05:50:00 | Dil. Factor: | 1.0000 |
| Sample Type: | CCB | | |
| Sample ID: | 440-0017050-069 | | |
| Misc. Info.: | 440-0017050-069 | | |
| Operator: | irvinorg | Instrument ID: | IC-16 |
| Injection Vol: | 1.0 ul | ALS Bottle#: | 0 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 69 |
| Raw Data: | Smoothed | | |
| Detector: | GC Info 2_TAIIRV167_Hex Chrom_20130105-060328 | | |
| Method: | \\Irvchrom\ChromData\IC16\20130104-17050.b\218.6_16.m | | |
| Method Label: | HEX CHROME | | |
| Last Update: | 05-Jan-2013 08:27:57 | Calib Date: | 28-Dec-2012 10:27:00 |
| Quant Method: | External Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d | | |
| Limit Group: | IC-7199 | | |
| Integrator: | Falcon | | |
| Column Type: | | Column Dia: | |
| Process Host: | XAWRK036 | | |

First Level Reviewer: nikbakhtm Date: 05-Jan-2013 08:28:05

| Compound | RT | EXP RT | DLT RT | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|

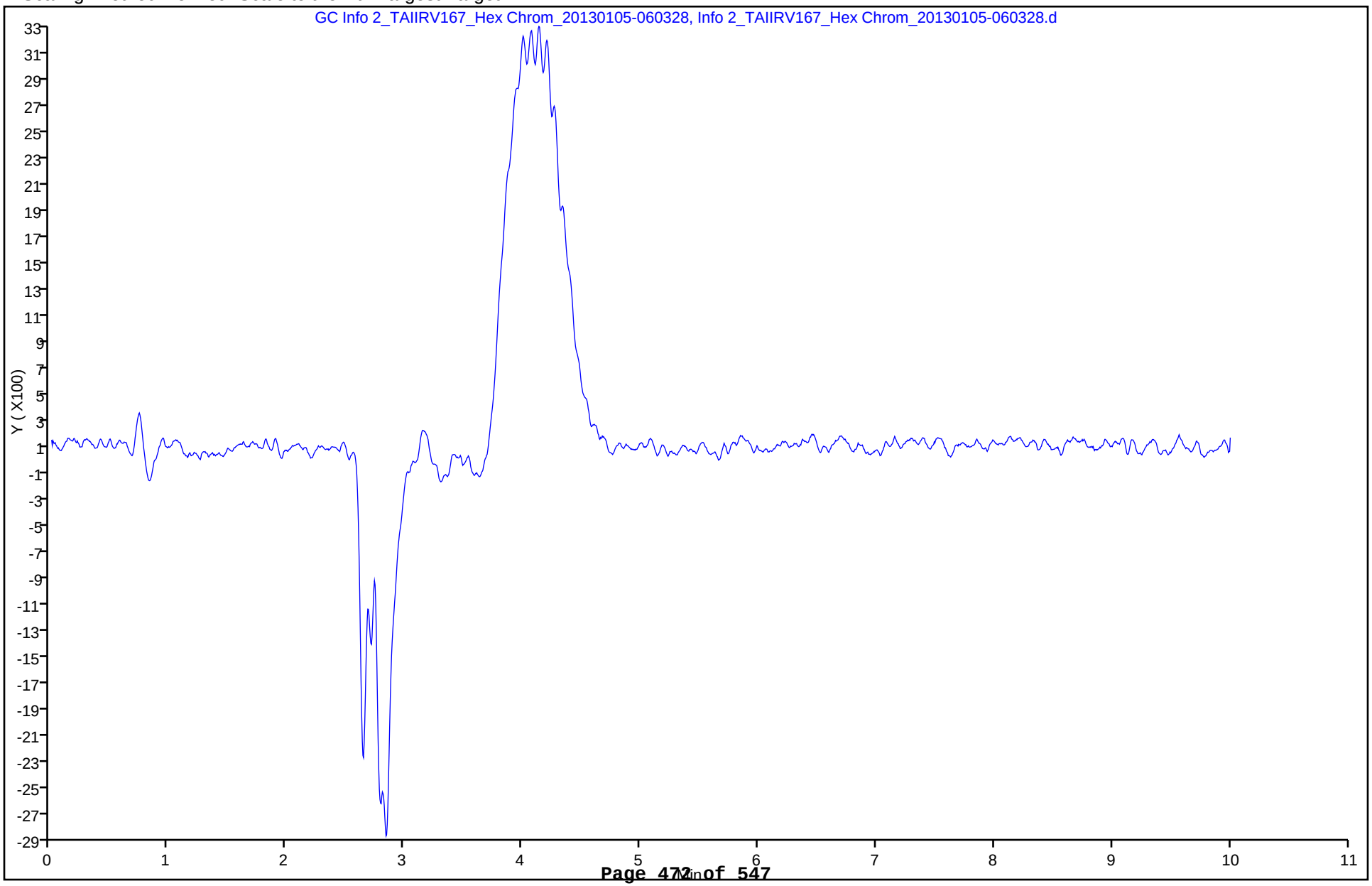
Report Date: 05-Jan-2013 08:28:06 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-060328.d

| | | | |
|---|---|---|---|
| Injection Date: | 05-Jan-2013 05:50:00 | Limit Group: | IC-7199 |
| Client ID: | | Instrument ID: | IC-16 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 69 |
| Operator ID: | irvinorg | Injection Vol: | 1.0 ul |
| Column Type: | | Column Dia: | |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-29976-1
SDG No.:
Client Sample ID:
Lab Sample ID: CCB 440-77008/72
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected:
Extraction Method:
Date Extracted:
Sample wt/vol: 10(mL)
Date Analyzed: 01/05/2013 08:08
Con. Extract Vol.:
Dilution Factor: 1
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 77008
Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 18540-29-9 | Cr (VI) | ND | | 2.0 | 0.25 |

TestAmerica Irvine
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-082123.d | | |
| Lims ID: | ccb | Client ID: | |
| Inject. Date: | 05-Jan-2013 08:08:00 | Dil. Factor: | 1.0000 |
| Sample Type: | CCB | | |
| Sample ID: | 440-0017050-072 | | |
| Misc. Info.: | 440-0017050-072 | | |
| Operator: | irvinorg | Instrument ID: | IC-16 |
| Injection Vol: | 1.0 ul | ALS Bottle#: | 0 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 72 |
| Raw Data: | Smoothed | | |
| Detector: | GC Info 2_TAIIRV167_Hex Chrom_20130105-082123 | | |
| Method: | \\Irvchrom\ChromData\IC16\20130104-17050.b\218.6_16.m | | |
| Method Label: | HEX CHROME | | |
| Last Update: | 05-Jan-2013 08:28:18 | Calib Date: | 28-Dec-2012 10:27:00 |
| Quant Method: | External Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d | | |
| Limit Group: | IC-7199 | | |
| Integrator: | Falcon | | |
| Column Type: | | Column Dia: | |
| Process Host: | XAWRK036 | | |

First Level Reviewer: nikbakhtm Date: 05-Jan-2013 08:28:27

| Compound | RT | EXP RT | DLT RT | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|

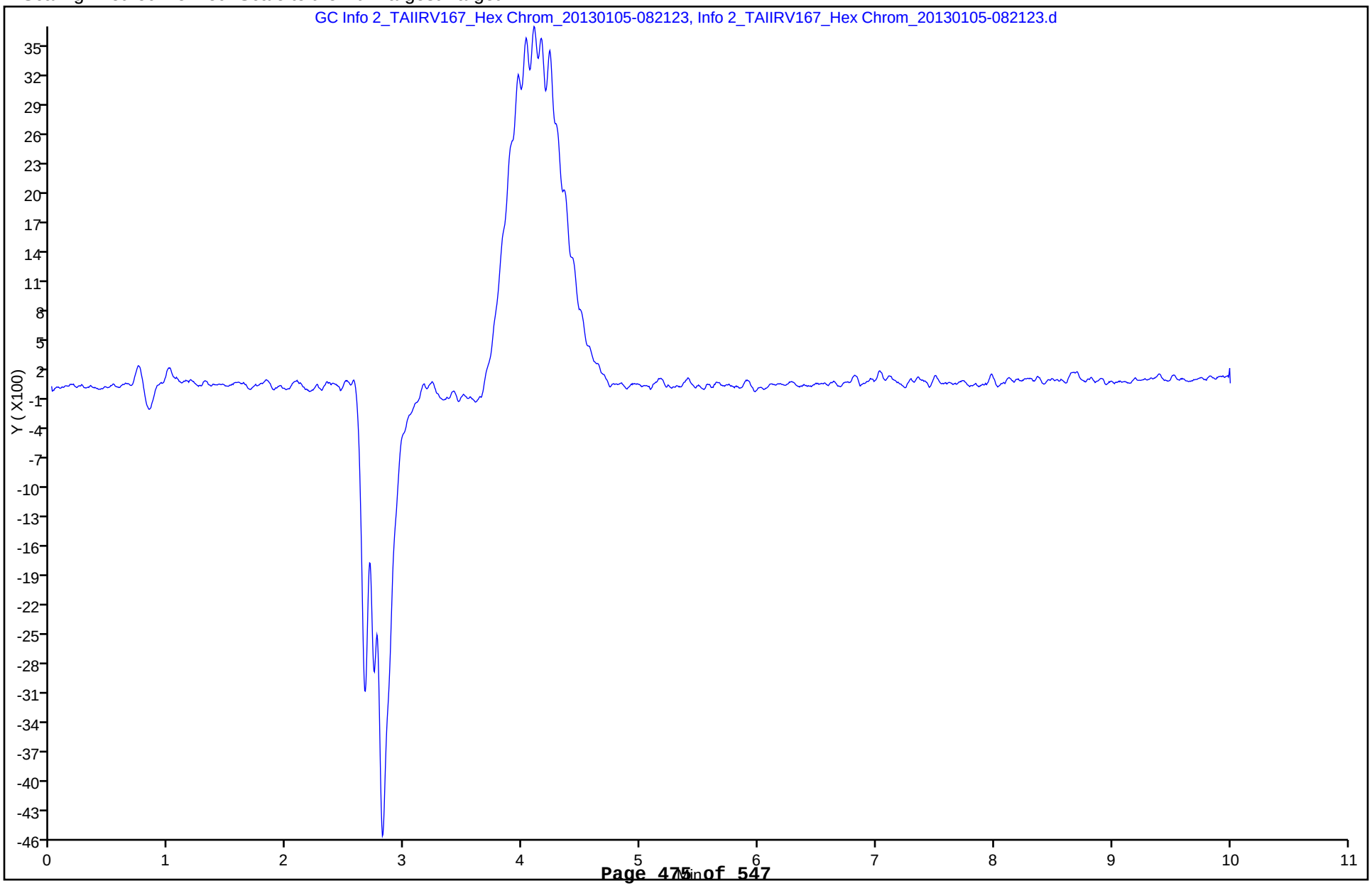
Report Date: 05-Jan-2013 08:28:27 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-082123.d

| | | | |
|---|---|---|---|
| Injection Date: | 05-Jan-2013 08:08:00 | Limit Group: | IC-7199 |
| Client ID: | | Instrument ID: | IC-16 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 72 |
| Operator ID: | irvinorg | Injection Vol: | 1.0 ul |
| Column Type: | | Column Dia: | |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-29976-1
SDG No.:
Client Sample ID:
Lab Sample ID: CCB 440-77008/79
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected:
Extraction Method:
Date Extracted:
Sample wt/vol: 10(mL)
Date Analyzed: 01/05/2013 09:38
Con. Extract Vol.:
Dilution Factor: 1
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 77008
Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 18540-29-9 | Cr (VI) | ND | | 2.0 | 0.25 |

TestAmerica Irvine
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-095125.d | | |
| Lims ID: | ccb | Client ID: | |
| Inject. Date: | 05-Jan-2013 09:38:00 | Dil. Factor: | 1.0000 |
| Sample Type: | CCB | | |
| Sample ID: | 440-0017050-079 | | |
| Misc. Info.: | 440-0017050-079 | | |
| Operator: | irvinorg | Instrument ID: | IC-16 |
| Injection Vol: | 1.0 ul | ALS Bottle#: | 0 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 79 |
| Raw Data: | Smoothed | | |
| Detector: | GC Info 2_TAIIRV167_Hex Chrom_20130105-095125 | | |
| Method: | \\Irvchrom\ChromData\IC16\20130104-17050.b\218.6_16.m | | |
| Method Label: | HEX CHROME | | |
| Last Update: | 05-Jan-2013 09:42:31 | Calib Date: | 28-Dec-2012 10:27:00 |
| Quant Method: | External Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d | | |
| Limit Group: | IC-7199 | | |
| Integrator: | Falcon | | |
| Column Type: | | Column Dia: | |
| Process Host: | XAWRK036 | | |

First Level Reviewer: nikbakhtm Date: 05-Jan-2013 10:03:29

| Compound | RT | EXP RT | DLT RT | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|

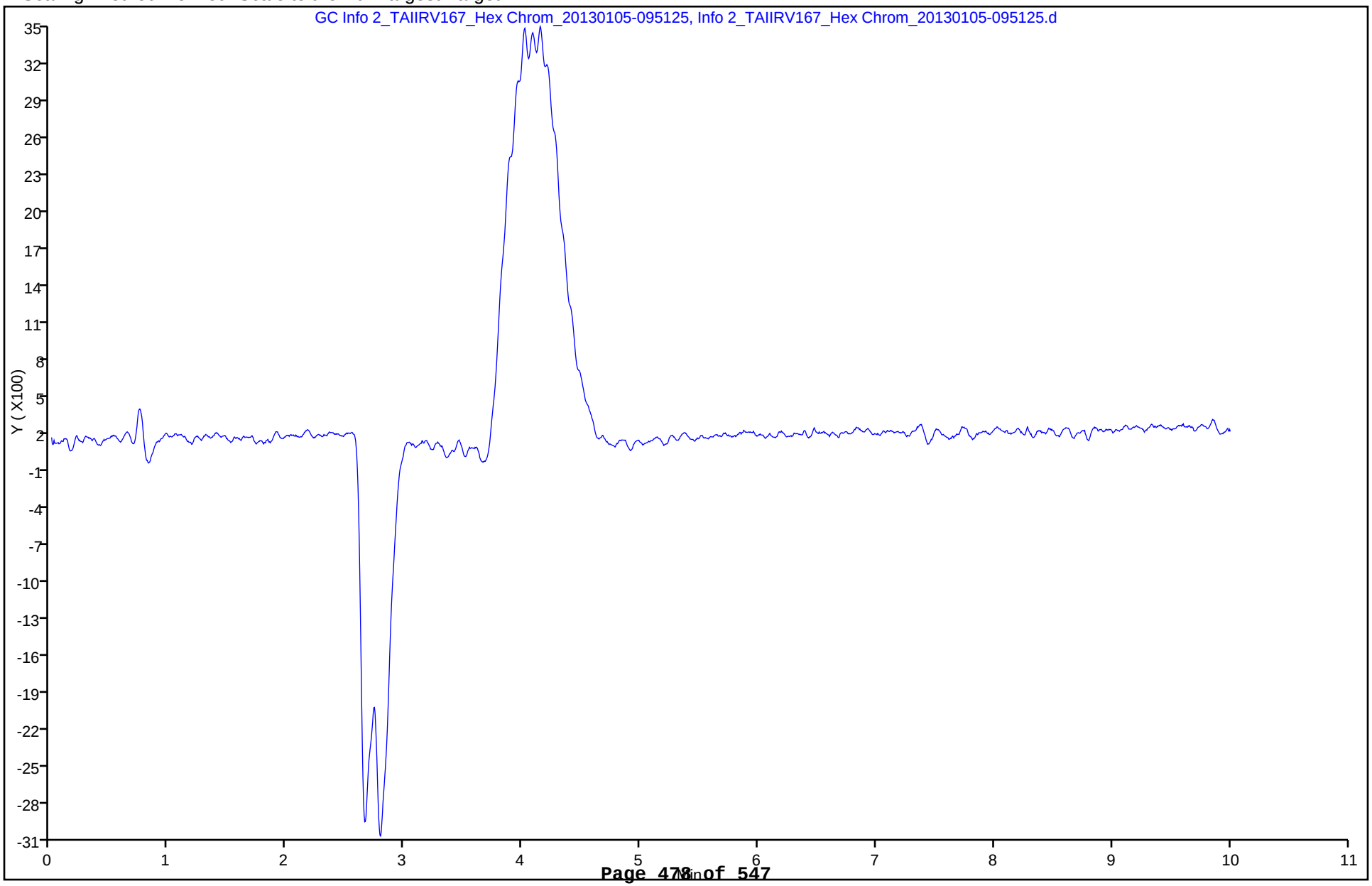
Report Date: 05-Jan-2013 10:03:29 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-095125.d

| | | | |
|---|---|---|---|
| Injection Date: | 05-Jan-2013 09:38:00 | Limit Group: | IC-7199 |
| Client ID: | | Instrument ID: | IC-16 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 79 |
| Operator ID: | irvinorg | Injection Vol: | 1.0 ul |
| Column Type: | | Column Dia: | |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-29976-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 440-77069/2-A
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected:
Extraction Method: 3060A
Date Extracted: 01/04/2013 10:56
Sample wt/vol: 1.25(g)
Date Analyzed: 01/05/2013 02:53
Con. Extract Vol.: 50(mL)
Dilution Factor: 10
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 77008
Units: mg/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 18540-29-9 | Cr (VI) | 12.6 | | 0.20 | 0.15 |

TestAmerica Irvine
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-030615.d | | |
| Lims ID: | LCS 440-77069/2-A | Client ID: | |
| Inject. Date: | 05-Jan-2013 02:53:00 | Dil. Factor: | 10.0000 |
| Sample Type: | LCS | | |
| Sample ID: | 440-0017050-055 | | |
| Misc. Info.: | 440-0017050-055 | | |
| Operator: | irvinorg | Instrument ID: | IC-16 |
| Injection Vol: | 1.0 ul | ALS Bottle#: | 0 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 55 |
| Raw Data: | Smoothed | | |
| Detector: | GC Info 2_TAIIRV167_Hex Chrom_20130105-030615 | | |
| Method: | \\Irvchrom\ChromData\IC16\20130104-17050.b\218.6_16.m | | |
| Method Label: | HEX CHROME | | |
| Last Update: | 05-Jan-2013 09:42:31 | Calib Date: | 28-Dec-2012 10:27:00 |
| Quant Method: | External Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d | | |
| Limit Group: | IC-7199 | | |
| Integrator: | Falcon | | |
| Column Type: | | Column Dia: | |
| Process Host: | XAWRK015 | | |

First Level Reviewer: nikbakhtm Date: 05-Jan-2013 08:26:16

| Compound | RT | EXP RT | DLT RT | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|
| 1 Cr (VI) | 8.127 | 8.262 | -0.135 | 1199189 | 31.6 | |

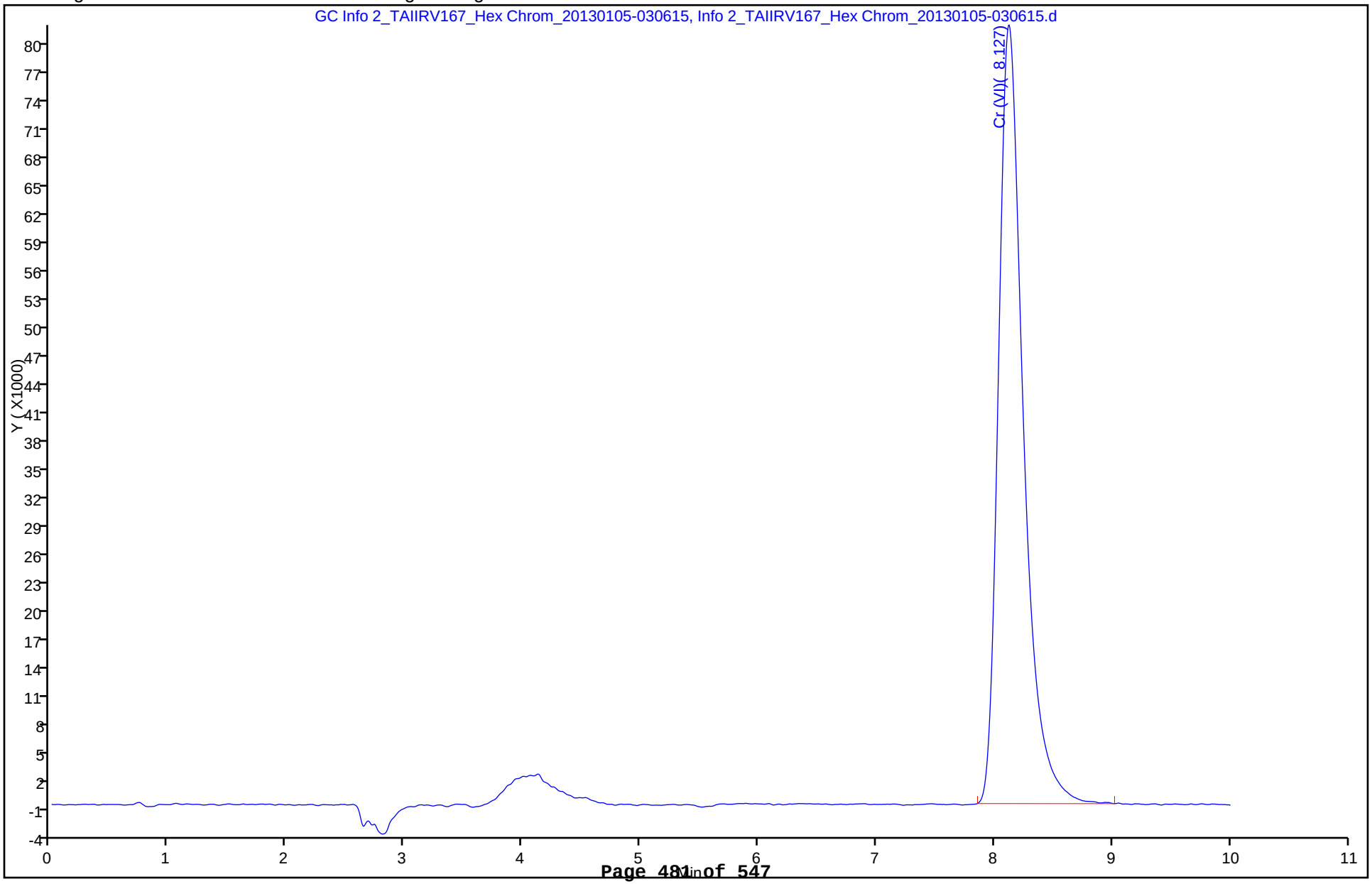
Report Date: 07-Jan-2013 10:35:48 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-030615.d

| | | | |
|---|---|---|---|
| Injection Date: | 05-Jan-2013 02:53:00 | Limit Group: | IC-7199 |
| Client ID: | | Instrument ID: | IC-16 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 55 |
| Operator ID: | irvinorg | Injection Vol: | 1.0 ul |
| Column Type: | | Column Dia: | |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-29976-1
SDG No.:
Client Sample ID: OC-SB-504-7.5/9.5-XXX MS
Lab Sample ID: 480-29976-2 MS
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected: 12/11/2012 08:30
Extraction Method: 3060A
Date Extracted: 01/04/2013 10:56
Sample wt/vol: 1.26(g)
Date Analyzed: 01/05/2013 03:31
Con. Extract Vol.: 50(mL)
Dilution Factor: 10
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture: 22.8
GPC Cleanup:(Y/N) N
Analysis Batch No.: 77008
Units: mg/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 18540-29-9 | Cr (VI) | 15.6 | | 0.26 | 0.19 |

TestAmerica Irvine
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-034413.d | | |
| Lims ID: | 480-29976-B-2-I MS | Client ID: | |
| Inject. Date: | 05-Jan-2013 03:31:00 | Dil. Factor: | 10.0000 |
| Sample Type: | MS | | |
| Sample ID: | 440-0017050-058 | | |
| Misc. Info.: | 440-0017050-058 | | |
| Operator: | irvinorg | Instrument ID: | IC-16 |
| Injection Vol: | 1.0 ul | ALS Bottle#: | 0 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 58 |
| Raw Data: | Smoothed | | |
| Detector: | GC Info 2_TAIIRV167_Hex Chrom_20130105-034413 | | |
| Method: | \\Irvchrom\ChromData\IC16\20130104-17050.b\218.6_16.m | | |
| Method Label: | HEX CHROME | | |
| Last Update: | 05-Jan-2013 09:42:31 | Calib Date: | 28-Dec-2012 10:27:00 |
| Quant Method: | External Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d | | |
| Limit Group: | IC-7199 | | |
| Integrator: | Falcon | | |
| Column Type: | | Column Dia: | |
| Process Host: | XAWRK015 | | |

First Level Reviewer: nikbakhtm Date: 05-Jan-2013 08:26:42

| Compound | RT | EXP RT | DLT RT | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|
| 1 Cr (VI) | 8.122 | 8.262 | -0.140 | 1155817 | 30.4 | |

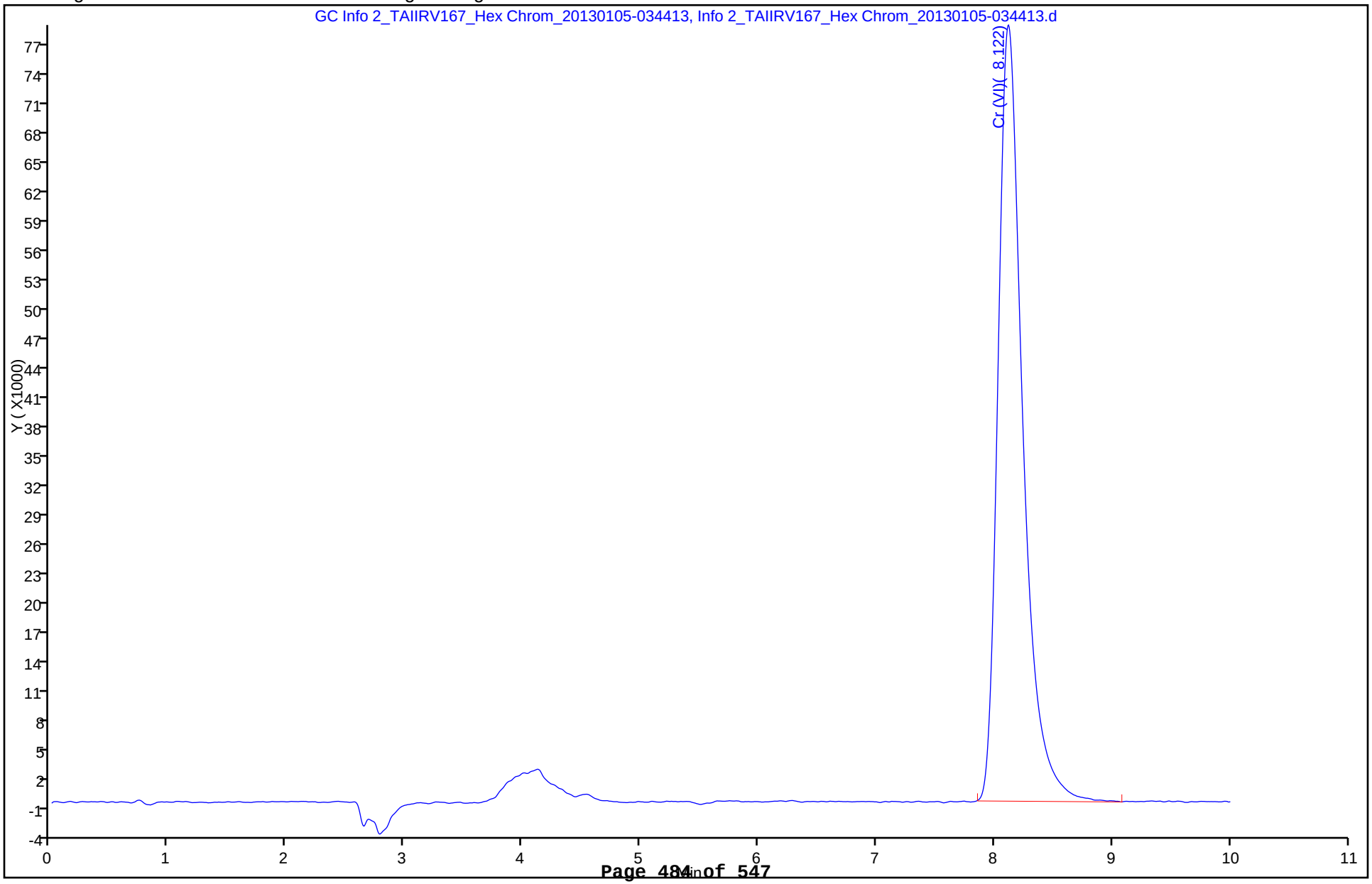
Report Date: 07-Jan-2013 10:47:42 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-034413.d

| | | | |
|---|---|---|---|
| Injection Date: | 05-Jan-2013 03:31:00 | Limit Group: | IC-7199 |
| Client ID: | | Instrument ID: | IC-16 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 58 |
| Operator ID: | irvinorg | Injection Vol: | 1.0 ul |
| Column Type: | | Column Dia: | |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine Job No.: 480-29976-1

SDG No.:

Client Sample ID: OC-SB-504-7.5/9.5-XXX MSD Lab Sample ID: 480-29976-2 MSD

Matrix: Solid Lab File ID: Info 2_TAIIRV167_Hex

Analysis Method: 7199 Date Collected: 12/11/2012 08:30

Extraction Method: 3060A Date Extracted: 01/04/2013 10:56

Sample wt/vol: 1.24(g) Date Analyzed: 01/05/2013 03:44

Con. Extract Vol.: 50(mL) Dilution Factor: 10

Injection Volume: 1(uL) GC Column: AS7 ID: 4(mm)

% Moisture: 22.8 GPC Cleanup:(Y/N) N

Analysis Batch No.: 77008 Units: mg/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 18540-29-9 | Cr (VI) | 15.5 | | 0.26 | 0.20 |

TestAmerica Irvine
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-035653.d | | |
| Lims ID: | 480-29976-B-2-J MSD | Client ID: | |
| Inject. Date: | 05-Jan-2013 03:44:00 | Dil. Factor: | 10.0000 |
| Sample Type: | MSD | | |
| Sample ID: | 440-0017050-059 | | |
| Misc. Info.: | 440-0017050-059 | | |
| Operator: | irvinorg | Instrument ID: | IC-16 |
| Injection Vol: | 1.0 ul | ALS Bottle#: | 0 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 59 |
| Raw Data: | Smoothed | | |
| Detector: | GC Info 2_TAIIRV167_Hex Chrom_20130105-035653 | | |
| Method: | \\Irvchrom\ChromData\IC16\20130104-17050.b\218.6_16.m | | |
| Method Label: | HEX CHROME | | |
| Last Update: | 05-Jan-2013 09:09:14 | Calib Date: | 28-Dec-2012 10:27:00 |
| Quant Method: | External Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d | | |
| Limit Group: | IC-7199 | | |
| Integrator: | Falcon | | |
| Column Type: | | Column Dia: | |
| Process Host: | XAWRK036 | | |

First Level Reviewer: nikbakhtm Date: 05-Jan-2013 08:26:49

| Compound | RT | EXP RT | DLT RT | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|
| 1 Cr (VI) | 8.122 | 8.262 | -0.140 | 1128181 | 29.7 | |

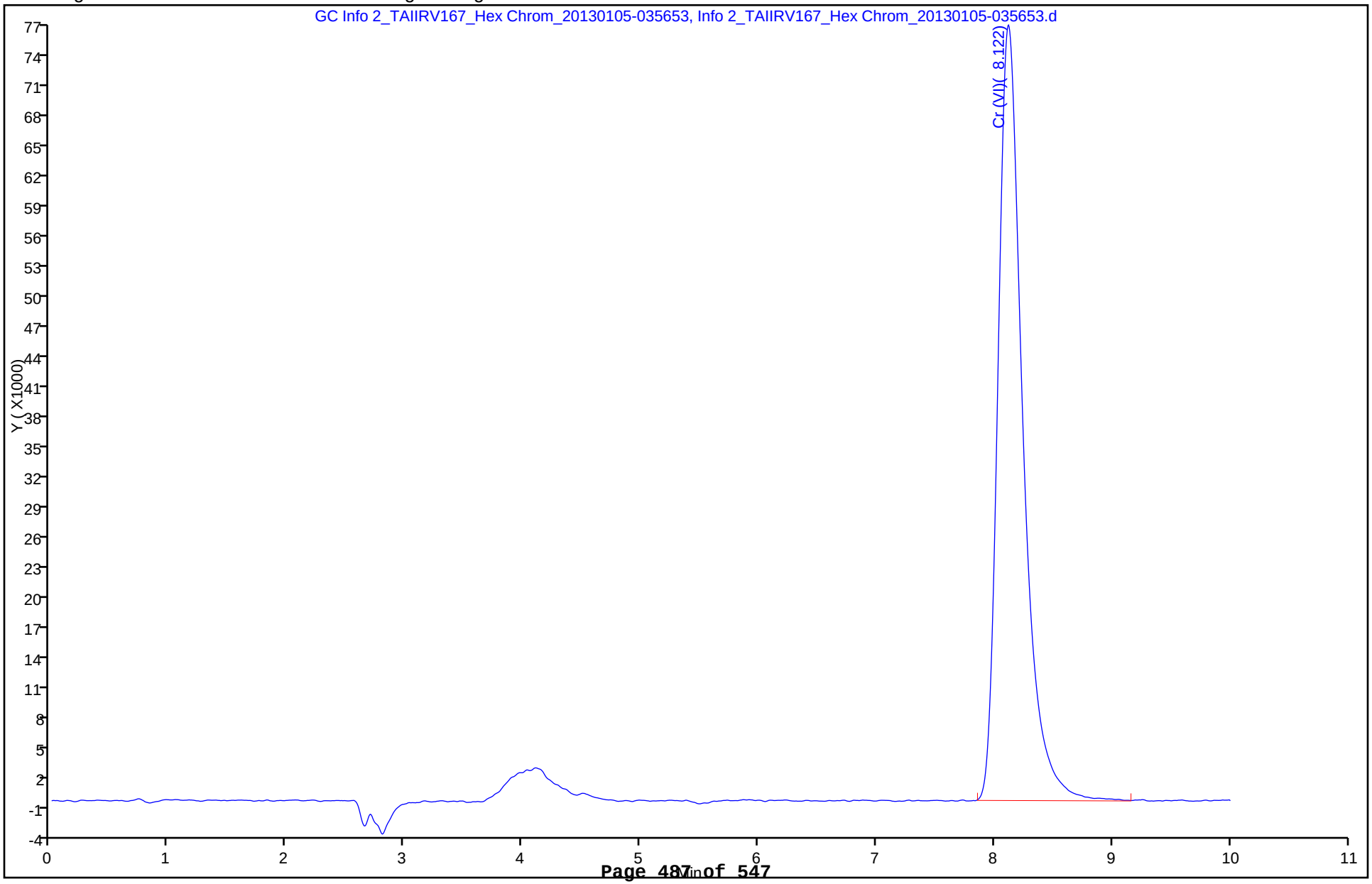
Report Date: 05-Jan-2013 08:26:49 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-035653.d

| | | | |
|---|---|---|---|
| Injection Date: | 05-Jan-2013 03:44:00 | Limit Group: | IC-7199 |
| Client ID: | | Instrument ID: | IC-16 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 59 |
| Operator ID: | irvinorg | Injection Vol: | 1.0 ul |
| Column Type: | | Column Dia: | |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Irvine
Job No.: 480-29976-1
SDG No.:
Client Sample ID: OC-SB-504-7.5/9.5-XXX MSI
Lab Sample ID: 480-29976-2 MSI
Matrix: Solid
Lab File ID: Info 2_TAIIRV167_Hex
Analysis Method: 7199
Date Collected: 12/11/2012 08:30
Extraction Method: 3060A
Date Extracted: 01/04/2013 10:56
Sample wt/vol: 1.25(g)
Date Analyzed: 01/05/2013 09:12
Con. Extract Vol.: 50(mL)
Dilution Factor: 1000
Injection Volume: 1(uL)
GC Column: AS7 ID: 4(mm)
% Moisture: 22.8
GPC Cleanup:(Y/N) N
Analysis Batch No.: 77008
Units: mg/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 18540-29-9 | Cr (VI) | 1730 | | 26 | 19 |

Report Date: 07-Jan-2013 10:47:56 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine
Target Compound Quantitation Report

| | | | |
|---|---|---|---|
| Data File: | \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-092443.d | | |
| Lims ID: | msi | Client ID: | |
| Inject. Date: | 05-Jan-2013 09:12:00 | Dil. Factor: | 1000.0000 |
| Sample Type: | Client | | |
| Sample ID: | 440-0017050-077 | | |
| Misc. Info.: | 440-0017050-077 | | |
| Operator: | irvinorg | Instrument ID: | IC-16 |
| Injection Vol: | 1.0 ul | ALS Bottle#: | 0 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 77 |
| Raw Data: | Smoothed | | |
| Detector: | GC Info 2_TAIIRV167_Hex Chrom_20130105-092443 | | |
| Method: | \\Irvchrom\ChromData\IC16\20130104-17050.b\218.6_16.m | | |
| Method Label: | HEX CHROME | | |
| Last Update: | 05-Jan-2013 09:42:31 | Calib Date: | 28-Dec-2012 10:27:00 |
| Quant Method: | External Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\Irvchrom\ChromData\IC16\20121228-16809.b\Info 2_TAIIRV167_Hex Chrom_20121228-104026.d | | |
| Limit Group: | IC-7199 | | |
| Integrator: | Falcon | | |
| Column Type: | | Column Dia: | |
| Process Host: | XAWRK015 | | |

| Compound | RT | EXP RT | DLT RT | Response | On-Col Amt ug/l | Flags |
|---|---|---|---|---|---|---|
| 1 Cr (VI) | 8.194 | 8.262 | -0.068 | 1267370 | 33.4 | |

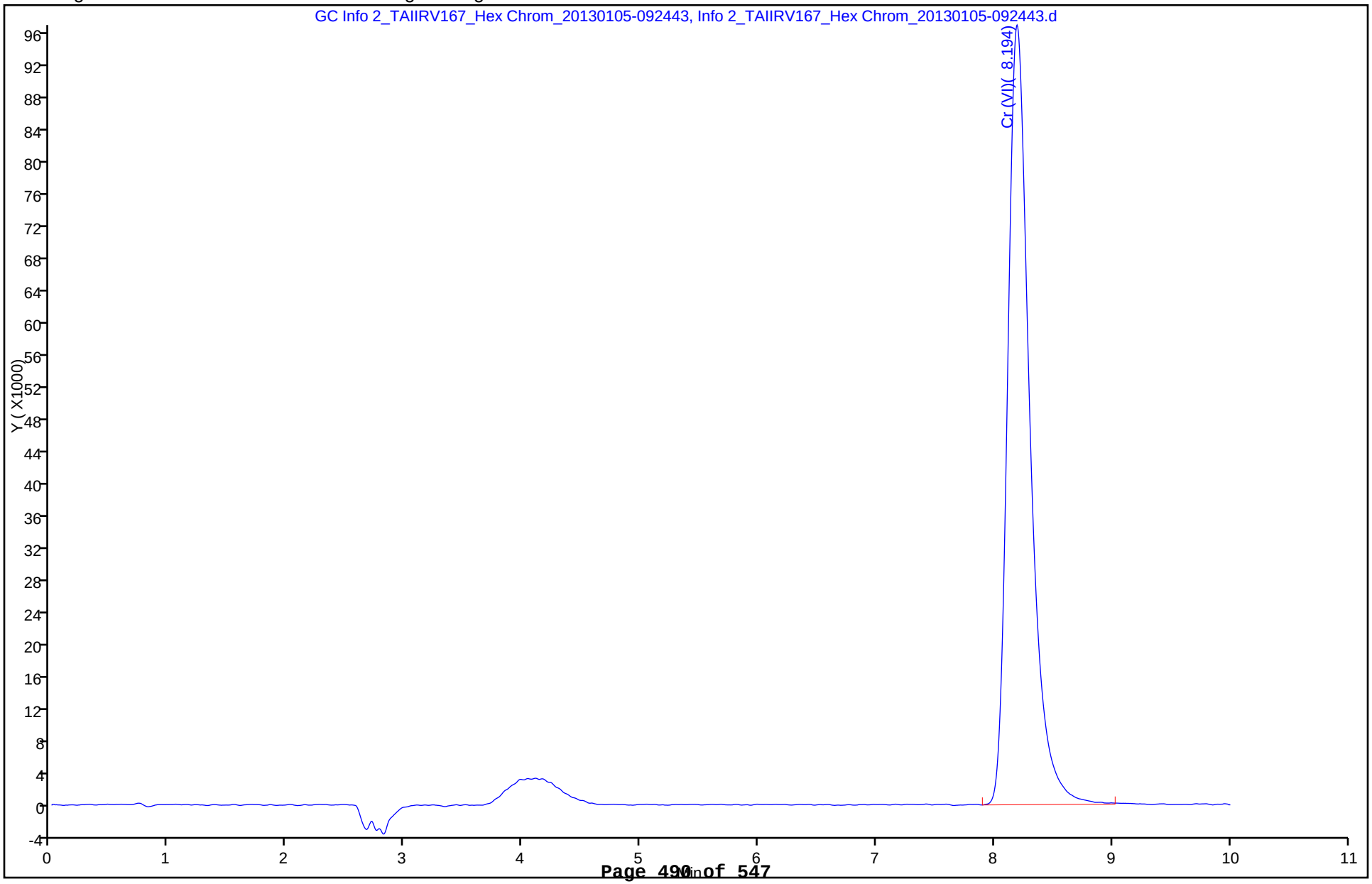
Report Date: 07-Jan-2013 10:47:56 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Irvine

Data File: \\Irvchrom\ChromData\IC16\20130104-17050.b\Info 2_TAIIRV167_Hex Chrom_20130105-092443.d

| | | | |
|---|---|---|---|
| Injection Date: | 05-Jan-2013 09:12:00 | Limit Group: | IC-7199 |
| Client ID: | | Instrument ID: | IC-16 |
| Lims Batch ID: | 77008 | Lims Sample ID: | 77 |
| Operator ID: | irvinorg | Injection Vol: | 1.0 ul |
| Column Type: | | Column Dia: | |

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Irvine Job No.: 480-29976-1

SDG No.:

Instrument ID: IC-16 Start Date: 12/28/2012 04:58

Analysis Batch Number: 75938 End Date: 12/28/2012 11:01

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| ZZZZZ | | 12/28/2012 04:58 | 1 | | AS7 4(mm) |
| ZZZZZ | | 12/28/2012 05:11 | 1 | | AS7 4(mm) |
| ZZZZZ | | 12/28/2012 05:23 | 1 | | AS7 4(mm) |
| ZZZZZ | | 12/28/2012 05:36 | 1 | | AS7 4(mm) |
| ZZZZZ | | 12/28/2012 05:49 | 1 | | AS7 4(mm) |
| ZZZZZ | | 12/28/2012 06:01 | 1 | | AS7 4(mm) |
| ZZZZZ | | 12/28/2012 06:39 | 1 | | AS7 4(mm) |
| CCV 440-75938/17 | | 12/28/2012 08:21 | 1 | | AS7 4(mm) |
| CCB 440-75938/18 | | 12/28/2012 08:33 | 1 | | AS7 4(mm) |
| ZZZZZ | | 12/28/2012 08:46 | 1 | | AS7 4(mm) |
| STD1 440-75938/20 IC | | 12/28/2012 08:59 | 1 | | AS7 4(mm) |
| STD2 440-75938/21 IC | | 12/28/2012 09:11 | 1 | Info 2_TAIIRV167_HexChrom_20121228-092425.d | AS7 4(mm) |
| STD3 440-75938/22 IC | | 12/28/2012 09:24 | 1 | Info 2_TAIIRV167_HexChrom_20121228-093704.d | AS7 4(mm) |
| STD4 440-75938/23 IC | | 12/28/2012 09:37 | 1 | Info 2_TAIIRV167_HexChrom_20121228-094945.d | AS7 4(mm) |
| STD5 440-75938/24 IC | | 12/28/2012 09:49 | 1 | Info 2_TAIIRV167_HexChrom_20121228-100225.d | AS7 4(mm) |
| STD6 440-75938/25 IC | | 12/28/2012 10:02 | 1 | Info 2_TAIIRV167_HexChrom_20121228-101504.d | AS7 4(mm) |
| STD7 440-75938/26 IC | | 12/28/2012 10:15 | 1 | Info 2_TAIIRV167_HexChrom_20121228-102746.d | AS7 4(mm) |
| STD8 440-75938/27 IC | | 12/28/2012 10:27 | 1 | Info 2_TAIIRV167_HexChrom_20121228-104026.d | AS7 4(mm) |
| ZZZZZ | | 12/28/2012 10:40 | 1 | | AS7 4(mm) |
| ICV 440-75938/29 | | 12/28/2012 11:01 | 1 | Info 2_TAIIRV167_HexChrom_20121228-111406.d | AS7 4(mm) |

7199

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Irvine Job No.: 480-29976-1

SDG No.:

Instrument ID: IC-16 Start Date: 01/04/2013 08:41

Analysis Batch Number: 77008 End Date: 01/05/2013 09:38

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| ZZZZZ | | 01/04/2013 08:41 | 1 | | AS7 4(mm) |
| ZZZZZ | | 01/04/2013 08:54 | 1 | | AS7 4(mm) |
| ZZZZZ | | 01/04/2013 09:06 | 1 | | AS7 4(mm) |
| ZZZZZ | | 01/04/2013 09:19 | 1 | | AS7 4(mm) |
| ZZZZZ | | 01/04/2013 10:05 | 1 | | AS7 4(mm) |
| ZZZZZ | | 01/04/2013 10:18 | 1 | | AS7 4(mm) |
| ZZZZZ | | 01/04/2013 10:30 | 1 | | AS7 4(mm) |
| ZZZZZ | | 01/04/2013 10:43 | 1 | | AS7 4(mm) |
| ZZZZZ | | 01/04/2013 10:56 | 1 | | AS7 4(mm) |
| CCV 440-77008/10 | | 01/04/2013 11:08 | 1 | | AS7 4(mm) |
| CCB 440-77008/11 | | 01/04/2013 11:21 | 1 | | AS7 4(mm) |
| CCV 440-77008/12 | | 01/04/2013 15:24 | 1 | | AS7 4(mm) |
| CCB 440-77008/13 | | 01/04/2013 15:37 | 1 | | AS7 4(mm) |
| CCV 440-77008/14 | | 01/04/2013 15:55 | 1 | | AS7 4(mm) |
| CCV 440-77008/15 | | 01/04/2013 16:21 | 1 | | AS7 4(mm) |
| ZZZZZ | | 01/04/2013 16:34 | 100 | | AS7 4(mm) |
| ZZZZZ | | 01/04/2013 16:46 | 1 | | AS7 4(mm) |
| CCV 440-77008/18 | | 01/04/2013 16:59 | 1 | | AS7 4(mm) |
| CCB 440-77008/19 | | 01/04/2013 17:12 | 1 | | AS7 4(mm) |
| ZZZZZ | | 01/04/2013 18:42 | 1 | | AS7 4(mm) |
| ZZZZZ | | 01/04/2013 18:55 | 1 | | AS7 4(mm) |
| ZZZZZ | | 01/04/2013 19:07 | 1 | | AS7 4(mm) |
| ZZZZZ | | 01/04/2013 21:24 | 1 | | AS7 4(mm) |
| CCV 440-77008/30 | | 01/04/2013 21:37 | 1 | | AS7 4(mm) |
| CCB 440-77008/31 | | 01/04/2013 21:49 | 1 | | AS7 4(mm) |
| ZZZZZ | | 01/04/2013 22:02 | 1 | | AS7 4(mm) |
| ZZZZZ | | 01/04/2013 22:15 | 1 | | AS7 4(mm) |
| ZZZZZ | | 01/04/2013 22:27 | 1 | | AS7 4(mm) |
| ZZZZZ | | 01/04/2013 22:40 | 1 | | AS7 4(mm) |
| ZZZZZ | | 01/04/2013 22:53 | 5000 | | AS7 4(mm) |
| ZZZZZ | | 01/04/2013 23:05 | 5000 | | AS7 4(mm) |
| ZZZZZ | | 01/04/2013 23:18 | 5000 | | AS7 4(mm) |
| ZZZZZ | | 01/04/2013 23:31 | 5000 | | AS7 4(mm) |
| ZZZZZ | | 01/04/2013 23:43 | 5000 | | AS7 4(mm) |
| ZZZZZ | | 01/04/2013 23:56 | 5000 | | AS7 4(mm) |
| CCV 440-77008/42 | | 01/05/2013 00:09 | 1 | | AS7 4(mm) |
| CCB 440-77008/43 | | 01/05/2013 00:21 | 1 | | AS7 4(mm) |
| ZZZZZ | | 01/05/2013 00:34 | 5000 | | AS7 4(mm) |
| ZZZZZ | | 01/05/2013 00:47 | 5000 | | AS7 4(mm) |
| ZZZZZ | | 01/05/2013 00:59 | 5000 | | AS7 4(mm) |
| ZZZZZ | | 01/05/2013 01:12 | 5000 | | AS7 4(mm) |
| ZZZZZ | | 01/05/2013 01:25 | 5000 | | AS7 4(mm) |
| ZZZZZ | | 01/05/2013 01:37 | 5000 | | AS7 4(mm) |
| ZZZZZ | | 01/05/2013 01:50 | 5000 | | AS7 4(mm) |
| ZZZZZ | | 01/05/2013 02:03 | 5000 | | AS7 4(mm) |

7199

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Irvine Job No.: 480-29976-1

SDG No.:

Instrument ID: IC-16 Start Date: 01/04/2013 08:41

Analysis Batch Number: 77008 End Date: 01/05/2013 09:38

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| CCV 440-77008/52 | | 01/05/2013 02:15 | 1 | Info 2_TAIIRV167_Hex Chrom_20130105-022816.d | AS7 4(mm) |
| CCB 440-77008/53 | | 01/05/2013 02:28 | 1 | Info 2_TAIIRV167_Hex Chrom_20130105-024055.d | AS7 4(mm) |
| MB 440-77069/1-A | | 01/05/2013 02:40 | 10 | Info 2_TAIIRV167_Hex Chrom_20130105-025335.d | AS7 4(mm) |
| LCS 440-77069/2-A | | 01/05/2013 02:53 | 10 | Info 2_TAIIRV167_Hex Chrom_20130105-030615.d | AS7 4(mm) |
| 480-29976-1 | OC-SB-504-0.0/1.0-XXX | 01/05/2013 03:06 | 10 | Info 2_TAIIRV167_Hex Chrom_20130105-031854.d | AS7 4(mm) |
| 480-29976-2 | OC-SB-504-7.5/9.5-XXX | 01/05/2013 03:18 | 10 | Info 2_TAIIRV167_Hex Chrom_20130105-033134.d | AS7 4(mm) |
| 480-29976-2 MS | OC-SB-504-7.5/9.5-XXX MS | 01/05/2013 03:31 | 10 | Info 2_TAIIRV167_Hex Chrom_20130105-034413.d | AS7 4(mm) |
| 480-29976-2 MSD | OC-SB-504-7.5/9.5-XXX MSD | 01/05/2013 03:44 | 10 | Info 2_TAIIRV167_Hex Chrom_20130105-035653.d | AS7 4(mm) |
| 480-29976-3 | OC-SB-505-0.0/1.0-XXX | 01/05/2013 04:09 | 10 | Info 2_TAIIRV167_Hex Chrom_20130105-042211.d | AS7 4(mm) |
| 480-29976-4 | OC-SB-505-5.0/7.0-XXX | 01/05/2013 04:22 | 10 | Info 2_TAIIRV167_Hex Chrom_20130105-043451.d | AS7 4(mm) |
| 480-29976-10 | OC-SB-508-0.0/1.0-XXX | 01/05/2013 04:34 | 100 | Info 2_TAIIRV167_Hex Chrom_20130105-044731.d | AS7 4(mm) |
| CCV 440-77008/64 | | 01/05/2013 04:47 | 1 | Info 2_TAIIRV167_Hex Chrom_20130105-050010.d | AS7 4(mm) |
| CCB 440-77008/65 | | 01/05/2013 05:00 | 1 | Info 2_TAIIRV167_Hex Chrom_20130105-051250.d | AS7 4(mm) |
| 480-29976-11 | OC-SB-508-8.0/10-XXX | 01/05/2013 05:12 | 10 | Info 2_TAIIRV167_Hex Chrom_20130105-052529.d | AS7 4(mm) |
| 480-29976-12 | OC-SB-508-12/14-XXX | 01/05/2013 05:25 | 10 | Info 2_TAIIRV167_Hex Chrom_20130105-053809.d | AS7 4(mm) |

7199

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Irvine Job No.: 480-29976-1

SDG No.:

Instrument ID: IC-16 Start Date: 01/04/2013 08:41

Analysis Batch Number: 77008 End Date: 01/05/2013 09:38

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| CCV 440-77008/68 | | 01/05/2013 05:38 | 1 | Info 2_TAIIRV167_Hex Chrom_20130105-055049.d | AS7 4(mm) |
| CCB 440-77008/69 | | 01/05/2013 05:50 | 1 | Info 2_TAIIRV167_Hex Chrom_20130105-060328.d | AS7 4(mm) |
| CCV 440-77008/71 | | 01/05/2013 07:56 | 1 | Info 2_TAIIRV167_Hex Chrom_20130105-080843.d | AS7 4(mm) |
| CCB 440-77008/72 | | 01/05/2013 08:08 | 1 | Info 2_TAIIRV167_Hex Chrom_20130105-082123.d | AS7 4(mm) |
| ZZZZZ | | 01/05/2013 08:21 | 500 | | AS7 4(mm) |
| ZZZZZ | | 01/05/2013 08:34 | 500 | | AS7 4(mm) |
| ZZZZZ | | 01/05/2013 08:46 | 500 | | AS7 4(mm) |
| ZZZZZ | | 01/05/2013 08:59 | 5000 | | AS7 4(mm) |
| 480-29976-2 MSI | OC-SB-504-7.5/9.5-XXX MSI | 01/05/2013 09:12 | 1000 | Info 2_TAIIRV167_Hex Chrom_20130105-092443.d | AS7 4(mm) |
| CCV 440-77008/78 | | 01/05/2013 09:26 | 1 | Info 2_TAIIRV167_Hex Chrom_20130105-093845.d | AS7 4(mm) |
| CCB 440-77008/79 | | 01/05/2013 09:38 | 1 | Info 2_TAIIRV167_Hex Chrom_20130105-095125.d | AS7 4(mm) |

7199

HPLC/IC BATCH WORKSHEET

Lab Name: TestAmerica Irvine Job No.: 480-29976-1

SDG No.:

Batch Number: 77069 Batch Start Date: 01/04/13 10:56 Batch Analyst: Pham, Quynh D

Batch Method: 3060A Batch End Date:

| Lab Sample ID | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | WCCR6LCS50PPM 00010 | WCPBCRO4 00003 | | |
|---|---|---|---|---|---|---|---|---|---|
| MB 440-77069/1 | | 3060A, 7199 | | 1.25 g | 50 mL | | | | |
| LCS 440-77069/2 | | 3060A, 7199 | | 1.25 g | 50 mL | 0.4 mL | | | |
| 480-29976-A-1 | OC-SB-504-0.0/1.0-XXX | 3060A, 7199 | T | 1.25 g | 50 mL | | | | |
| 480-29976-B-2 | OC-SB-504-7.5/9.5-XXX | 3060A, 7199 | T | 1.24 g | 50 mL | | | | |
| 480-29976-B-2 MS | OC-SB-504-7.5/9.5-XXX | 3060A, 7199 | T | 1.26 g | 50 mL | 0.4 mL | | | |
| 480-29976-B-2 MSD | OC-SB-504-7.5/9.5-XXX | 3060A, 7199 | T | 1.24 g | 50 mL | 0.4 mL | | | |
| 480-29976-B-2 MSI | OC-SB-504-7.5/9.5-XXX | 3060A, 7199 | T | 1.25 g | 50 mL | | 14.6 mg | | |
| 480-29976-A-3 | OC-SB-505-0.0/1.0-XXX | 3060A, 7199 | T | 1.25 g | 50 mL | | | | |
| 480-29976-B-4 | OC-SB-505-5.0/7.0-XXX | 3060A, 7199 | T | 1.25 g | 50 mL | | | | |
| 480-29976-A-10 | OC-SB-508-0.0/1.0-XXX | 3060A, 7199 | T | 1.25 g | 50 mL | | | | |
| 480-29976-B-11 | OC-SB-508-8.0/10-XXX | 3060A, 7199 | T | 1.26 g | 50 mL | | | | |
| 480-29976-A-12 | OC-SB-508-12/14-XXX | 3060A, 7199 | T | 1.26 g | 50 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.

HPLC/IC BATCH WORKSHEET

Lab Name: TestAmerica Irvine Job No.: 480-29976-1

SDG No.:

Batch Number: 77069 Batch Start Date: 01/04/13 10:56 Batch Analyst: Pham, Quynh D

Batch Method: 3060A Batch End Date:

| Batch Notes | |
|---|---|
| Alkaline Digestion Solution Reagent ID | 813451 |
| First End time | 13.00 |
| Potassium Chromate Lot # | 199371 |
| Potassium Chromate Vendor ID | 199371 |
| Potassium Phosphate Buffer Reagent ID | 812745 |
| Lead Chromate Lot # | 35232 |
| Lead Chromate Vendor ID | 35232 |
| Magnesium Chloride Lot Number | 027333 |
| Magnesium Chloride Vendor | 027333 |
| First Start time | 12.00 |
| Ending Temperature | 94 Celsius |
| Starting Temperature | 94 Celsius |

| Basis | Basis Description |
|---|---|
| T | Total/NA |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-29976-1

SDG No.:

Project: Olin Chemical Wilmington MA Superfund S

| Client Sample ID | Lab Sample ID |
|---|---|
| OC-SB-480-6.0/8.0-XXX | 480-29976-5 |
| OC-SB-484-5.5/7.5-XXX | 480-29976-6 |
| OC-SB-486-8.0/10-XXX | 480-29976-7 |
| OC-SB-491-6.0/8.0-XXX | 480-29976-8 |
| OC-DUP-3 | 480-29976-9 |

Comments:

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 480-29976-1

SDG No.:

Project: Olin Chemical Wilmington MA Superfund S

| Client Sample ID | Lab Sample ID |
|---|---|
| OC-SB-504-0.0/1.0-XXX | 480-29976-1 |
| OC-SB-504-7.5/9.5-XXX | 480-29976-2 |
| OC-SB-505-0.0/1.0-XXX | 480-29976-3 |
| OC-SB-505-5.0/7.0-XXX | 480-29976-4 |
| OC-SB-508-0.0/1.0-XXX | 480-29976-10 |
| OC-SB-508-8.0/10-XXX | 480-29976-11 |
| OC-SB-508-12/14-XXX | 480-29976-12 |

Comments:

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Westfield Job Number: 480-29976-1

SDG No.:

Project: Olin Chemical Wilmington MA Superfund S

| Client Sample ID | Lab Sample ID |
|---|---|
| OC-SB-504-0.0/1.0-XXX | 480-29976-1 |
| OC-SB-504-7.5/9.5-XXX | 480-29976-2 |
| OC-SB-505-0.0/1.0-XXX | 480-29976-3 |
| OC-SB-505-5.0/7.0-XXX | 480-29976-4 |
| OC-SB-508-0.0/1.0-XXX | 480-29976-10 |
| OC-SB-508-8.0/10-XXX | 480-29976-11 |
| OC-SB-508-12/14-XXX | 480-29976-12 |

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SB-504-0.0/1.0-XXX
Lab Sample ID: 480-29976-1
Lab Name: TestAmerica Westfield
Job No.: 480-29976-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/11/2012 08:05
Reporting Basis: WET
Date Received: 12/11/2012 17:15

| CAS No. | Analyte | Result | RL | | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | pH | 7.18 | 1.00 | | SU | | | 1 | 9045C |
| | Oxidation Reduction Potential | 36 | 0.010 | | millivolts | | | 1 | SM 2580B |

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SB-504-7.5/9.5-XXX
Lab Sample ID: 480-29976-2
Lab Name: TestAmerica Westfield
Job No.: 480-29976-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/11/2012 08:30
Reporting Basis: WET
Date Received: 12/11/2012 17:15

| CAS No. | Analyte | Result | RL | | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | pH | 7.11 | 1.00 | | SU | | | 1 | 9045C |
| | Oxidation Reduction Potential | 26 | 0.010 | | millivolts | | | 1 | SM 2580B |

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SB-505-0.0/1.0-XXX
Lab Sample ID: 480-29976-3
Lab Name: TestAmerica Westfield
Job No.: 480-29976-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/11/2012 09:25
Reporting Basis: WET
Date Received: 12/11/2012 17:15

| CAS No. | Analyte | Result | RL | | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | pH | 4.99 | 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-505-5.0/7.0-XXX
Lab Sample ID: 480-29976-4
Lab Name: TestAmerica Westfield
Job No.: 480-29976-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/11/2012 09:45
Reporting Basis: WET
Date Received: 12/11/2012 17:15

| CAS No. | Analyte | Result | RL | | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | pH | 6.54 | 1.00 | | SU | | | 1 | 9045C |
| | Oxidation Reduction Potential | 19 | 0.010 | | millivolts | | | 1 | SM 2580B |

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SB-508-0.0/1.0-XXX
Lab Sample ID: 480-29976-10
Lab Name: TestAmerica Westfield
Job No.: 480-29976-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/11/2012 13:25
Reporting Basis: WET
Date Received: 12/11/2012 17:15

| CAS No. | Analyte | Result | RL | | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | pH | 5.51 | 1.00 | | SU | | | 1 | 9045C |
| | Oxidation Reduction Potential | 30 | 0.010 | | millivolts | | | 1 | SM 2580B |

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SB-508-8.0/10-XXX
Lab Sample ID: 480-29976-11
Lab Name: TestAmerica Westfield
Job No.: 480-29976-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/11/2012 13:40
Reporting Basis: WET
Date Received: 12/11/2012 17:15

| CAS No. | Analyte | Result | RL | | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | pH | 5.69 | 1.00 | | SU | | | 1 | 9045C |
| | Oxidation Reduction Potential | 19 | 0.010 | | millivolts | | | 1 | SM 2580B |

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - SOLUBLE

Client Sample ID: OC-SB-508-12/14-XXX
Lab Sample ID: 480-29976-12
Lab Name: TestAmerica Westfield
Job No.: 480-29976-1
SDG ID.:
Matrix: Solid
Date Sampled: 12/11/2012 13:50
Reporting Basis: WET
Date Received: 12/11/2012 17:15

| CAS No. | Analyte | Result | RL | | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| | pH | 7.44 | 1.00 | | SU | | | 1 | 9045C |
| | Oxidation Reduction Potential | 13 | 0.010 | | millivolts | | | 1 | SM 2580B |

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Westfield Job No.: 480-29976-1

SDG No.:

Analyst: RWE Batch Start Date: 12/12/2012

Reporting Units: SU Analytical Batch No.: 97379

| Sample Number | QC Type | Time | Analyte | Result | Spike Amount | (%) Recovery | Limits | Qual | Reagent |
|---|---|---|---|---|---|---|---|---|---|
| 10 | CCV | 08:43 | pH | 5.990 | 6.00 | 100 | 90-110 | | W12H_PH_6_00001 |

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

FORM II-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Westfield Job No.: 480-29976-1

SDG No.:

Matrix: Solid

| Method | Client Sample ID | Lab Sample ID | Analyte | Result | Unit | RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|
| Batch ID: 97379 Date: 12/12/2012 08:40 | | | | | | | | |
| 9045C | OC-SB-508-12/14-XXX | 480-29976-12 | pH | 7.44 | SU | | | |
| 9045C | OC-SB-508-12/14-XXX | 480-29976-12 DU | pH | 7.240 | SU | 3 | 10.0 | |
| Batch ID: 97380 Date: 12/12/2012 08:40 | | | | | | | | |
| SM 2580B | OC-SB-508-12/14-XXX | 480-29976-12 | Oxidation Reduction Potential | 13 | millivolts | | | |
| SM 2580B | OC-SB-508-12/14-XXX | 480-29976-12 DU | Oxidation Reduction Potential | 14.0 | millivolts | 7 | 20 | |

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

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Westfield Job No.: 480-29976-1

SDG No.:

Matrix: Solid

| Method | Lab Sample ID | Analyte | Result | C | Unit | Spike Amount | Pct. Rec. | Limits | RPD | RPD Limit | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Batch ID: 97379 | | Date: 12/12/2012 07:28 | | | | | | | | | |
| | | | | | | LCS Source: | W12H_PH_6_00001 | | | | |
| 9045C | LCS 360-97377/1-A | pH | 5.940 | | SU | 6.00 | 99 | 90-110 | | | |
| Batch ID: 97380 | | Date: 12/12/2012 07:57 | | | | | | | | | |
| | | | | | | LCS Source: | W12L_ORP_LCS_00001 | | | | |
| SM 2580B | LCS 360-97378/1-A | Oxidation Reduction Potential | 419 | | millivolts | 475 | 88 | 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: 480-29976-1

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: 480-29976-1

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: 480-29976-1

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: 480-29976-1

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: 480-29976-1

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 | |

FORM IX - IN

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY - SOLUBLE

Lab Name: TestAmerica Westfield Job Number: 480-29976-1

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: 480-29976-1

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 | |

FORM IX - IN

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY - SOLUBLE

Lab Name: TestAmerica Westfield Job Number: 480-29976-1

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 | |

FORM IX - IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 12/12/2012 18:49 End Date: 12/12/2012 18:49

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | % Sol | Moist | | | | | | | | | | | | | | | | | | |
| 480-29976-5 | 1 | T | 18:49 | X | X | | | | | | | | | | | | | | | | | | |
| 480-29976-6 | 1 | T | 18:49 | X | X | | | | | | | | | | | | | | | | | | |
| 480-29976-7 | 1 | T | 18:49 | X | X | | | | | | | | | | | | | | | | | | |
| 480-29976-8 | 1 | T | 18:49 | X | X | | | | | | | | | | | | | | | | | | |
| 480-29976-8 MS | 1 | T | 18:49 | X | X | | | | | | | | | | | | | | | | | | |
| 480-29976-8 MSD | 1 | T | 18:49 | X | X | | | | | | | | | | | | | | | | | | |
| 480-29976-9 | 1 | T | 18:49 | X | X | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 12/12/2012 18:49 End Date: 12/12/2012 18:49

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | % Sol | Moist | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:49 | | | | | | | | | | | | | | | | | | | | |

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 480-29976-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 12/17/2012 12:26 End Date: 12/17/2012 12:26

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | % Sol | Moist | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:26 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:26 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:26 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:26 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:26 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:26 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:26 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:26 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:26 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:26 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:26 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:26 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:26 | | | | | | | | | | | | | | | | | | | | |
| 480-29976-1 | 1 | T | 12:26 | X | X | | | | | | | | | | | | | | | | | | |
| 480-29976-2 | 1 | T | 12:26 | X | X | | | | | | | | | | | | | | | | | | |
| 480-29976-3 | 1 | T | 12:26 | X | X | | | | | | | | | | | | | | | | | | |
| 480-29976-4 | 1 | T | 12:26 | X | X | | | | | | | | | | | | | | | | | | |
| 480-29976-10 | 1 | T | 12:26 | X | X | | | | | | | | | | | | | | | | | | |
| 480-29976-11 | 1 | T | 12:26 | X | X | | | | | | | | | | | | | | | | | | |
| 480-29976-12 | 1 | T | 12:26 | X | X | | | | | | | | | | | | | | | | | | |
| 480-29976-12 DU | 1 | T | 12:26 | X | X | | | | | | | | | | | | | | | | | | |

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Westfield Job No.: 480-29976-1

SDG No.:

Instrument ID: pH meter Method: 9045C

Start Date: 12/12/2012 07:28 End Date: 12/12/2012 08:43

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | pH | | | | | | | | | | | | | | | | | | | |
| LCS 360-97377/1-A | 1 | S | 07:28 | X | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 07:28 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 07:28 | | | | | | | | | | | | | | | | | | | | |
| 480-29976-1 | 1 | S | 08:03 | X | | | | | | | | | | | | | | | | | | | |
| 480-29976-2 | 1 | S | 08:09 | X | | | | | | | | | | | | | | | | | | | |
| 480-29976-3 | 1 | S | 08:13 | X | | | | | | | | | | | | | | | | | | | |
| 480-29976-4 | 1 | S | 08:17 | X | | | | | | | | | | | | | | | | | | | |
| 480-29976-10 | 1 | S | 08:22 | X | | | | | | | | | | | | | | | | | | | |
| 480-29976-11 | 1 | S | 08:32 | X | | | | | | | | | | | | | | | | | | | |
| 480-29976-12 | 1 | S | 08:36 | X | | | | | | | | | | | | | | | | | | | |
| 480-29976-12 DU | 1 | S | 08:40 | X | | | | | | | | | | | | | | | | | | | |
| CCV 360-97379/10 | 1 | | 08:43 | X | | | | | | | | | | | | | | | | | | | |

Prep Types
S = Soluble

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Westfield Job No.: 480-29976-1

SDG No.:

Instrument ID: NOEQUIP Method: SM 2580B

Start Date: 12/12/2012 07:57 End Date: 12/12/2012 08:40

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ORP | | | | | | | | | | | | | | | | | | | |
| LCS 360-97378/1-A | 1 | S | 07:57 | X | | | | | | | | | | | | | | | | | | | |
| 480-29976-1 | 1 | S | 08:03 | X | | | | | | | | | | | | | | | | | | | |
| 480-29976-2 | 1 | S | 08:09 | X | | | | | | | | | | | | | | | | | | | |
| 480-29976-3 | 1 | S | 08:13 | X | | | | | | | | | | | | | | | | | | | |
| 480-29976-4 | 1 | S | 08:17 | X | | | | | | | | | | | | | | | | | | | |
| 480-29976-10 | 1 | S | 08:22 | X | | | | | | | | | | | | | | | | | | | |
| 480-29976-11 | 1 | S | 08:32 | X | | | | | | | | | | | | | | | | | | | |
| 480-29976-12 | 1 | S | 08:36 | X | | | | | | | | | | | | | | | | | | | |
| 480-29976-12 DU | 1 | S | 08:40 | X | | | | | | | | | | | | | | | | | | | |

Prep Types

S = Soluble

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

# Data Review Coversheet—Inorganics Dept

Method Name: pH Method Reference: 9045C Date of Analytical Run: 12-12-12

Primary Reviewer's Initials & Date: RWE 12-13-12 Secondary Reviewer's Initials & Date: SPR 12/13/12

| Batch Numbers | 97379 | | | | |
|---|---|---|---|---|---|

**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.

# Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 360-97377 | Analyst: Emerich, Rich W | Batch Open: 12/12/2012 6:50:00AM

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~360-97377/1 N/A | N/A | | 20 g | 20 mL | N/A | N/A | N/A | | LCS 360-97377/1-A |
| 2 | 480-29976-A-1 (9045C) | N/A | Solid | 20 g | 20 mL | 12/24/12 | 9_Days - R | 4 | | 480-29976-A-1-A |
| 3 | 480-29976-A-2 (9045C) | N/A | Solid | 20 g | 20 mL | 12/24/12 | 9_Days - R | 4 | | 480-29976-A-2-A |
| | 480-29976-A-3 (9045C) | N/A | Solid | 20 g | 20 mL | 12/24/12 | 9_Days - R | 4 | | 480-29976-A-3-A |
| | 480-29976-A-4 (9045C) | N/A | Solid | 20 g | 20 mL | 12/24/12 | 9_Days - R | 4 | | 480-29976-A-4-A |
| | 480-29976-A-10 (9045C) | N/A | Solid | 20 g | 20 mL | 12/24/12 | 9_Days - R | 4 | | 480-29976-A-10-A |
| | 480-29976-A-11 (9045C) | N/A | Solid | 20 g | 20 mL | 12/24/12 | 9_Days - R | 4 | | 480-29976-A-11-A |
| 8 | 480-29976-A-12 (9045C) | N/A | Solid | 20 g | 20 mL | 12/24/12 | 9_Days - R | 4 | | 480-29976-A-12-A |
| 9 | 480-29976-A-12~DU (9045C) | N/A | Solid | 20 g | 20 mL | 12/24/12 | 9_Days - R | 4 | | 480-29976-A-12-B DU |

# Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 360-97377 Analyst: Emerich, Rich W Batch Open: 12/12/2012 6:50:00AM

Method Code: 360-DI_LEACH-360 Batch End:

## Batch Notes

Balance ID

Blank Soil Lot Number

Batch Comment

## Comments

Login Comments for Job 29976: MCP

# Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 360-97377 Analyst: Emerich, Rich W Batch Open: 12/12/2012 6:50:00AM

Method Code: 360-DI_LEACH-360 Batch End:

## Reagent Additions Worksheet

| Lab ID | Reagent Code | Amount Added | Final Amount | By | Witness |
|---|---|---|---|---|---|
| LCS 360-97377/1 | W12H_PH_6_00001 | 20 mL | 20 mL | | |

**Other Reagents:**

| Reagent | Amount/Units | Lot#: |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

# TestAmerica WESTFIELD

SANITARY CHEMICAL ANALYSIS

Analyst: RLE

Date: 12-12-12

Instruments: Accumet 20 (Installed July 1998; New) Monitek 21 (Installed August 1996; New)

| | |
|---|---|
| pH | SM 4500H+/EPA 9040/EPA 9045C |
| Color | SM 2120B |
| Odor | SM 2150B |
| ORP | SM2580B |

| SAMPLE ID # | Time of Analysis | sample weight (g) | pH Analysis | | ORP | Color | | | Odor | comments |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Temp °C | pH (SU) | ORP (mV) | Dilution Factor (DF) | Observed Dil'd Color (C) | Color (units) [ =DF x C] | TON | |
| W12H_pH6 pH6 LCS | 0728 | 20 | 19.2 | 5.94 | | | | | | |
| W12L_ORP_LCS ORP LCS | 0757 | | | | 419 | | | | | |
| 480-29976 A1 AMEC 12-11-12 0805 | 0803 | | 18.8 | 7.18 | 36 | | | | | |
| A2 0830 | 0809 | | 18.5 | 7.11 | 26 | | | | | |
| A3 0925 | 0813 | | 18.7 | 4.99 | 49 | | | | | |
| A4 0945 | 0817 | | 18.7 | 6.54 | 19 | | | | | |
| A10 1325 | 0822 | | 18.6 | 5.51 | 30 | | | | | |
| A11 1340 | 0832 | | 19.2 | 5.69 | 19 | | | | | |
| A12 1350 | 0836 | | 19.0 | 7.44 | 13 | | | | | |
| A12 Dup 1350 Dup | 0840 | | 19.0 | 7.24 | 14 | | | | | |
| CCV pH6 | 0843 | | 20.3 | 5.99 | | | | | | |
| CCV pH6 | 1337 | | 19.6 | 5.98 | | | | | | |

**pH Meter Calibration:** Date & Time Calibrated: 12-12-12 | 0705 Analyst Initials: RLE Meter Slope = 99.5

Buffer Lot Numbers (Fisher Sci.): pH 4.00 = 120144 pH 7.00 = 114197 pH 10.01 = 114767

B 97377 pH

B97378 dRP

**TestAmerica Westfield**
Westfield Executive Park 53 Southampton Road
Westfield, MA 01085
Phone (413) 572-4000 Fax (413) 572-3707

# Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

| Client Information | | | | |
|---|---|---|---|---|
| Client Contact: David Chapman | Sampler: David Chapman / Nick Petsele | Lab PM: Becky Mason | Carrier Tracking No(s): | COC No: 01 [illegible] |
| | Phone: 339-927-3793 | E-Mail: | | Page: 1 of 2 |
| Company: AMEC | | | | Job #: 480-29976 |
| Address: 2 Robbins Rd | Due Date Requested: Standard | | | |
| City: Westford, MA | TAT Requested (days): Standard | | | |
| State, Zip: MA, 01886 | | | | |
| Phone: 978-692-9090 | Quote #: | | | |
| Email: David.chapman@amec.com | PO #: | | | |
| Project Name/number: Olin, Wilmington / 01C7125016 | 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 [X] GW1/S1 [X]
RCP [ ] CT RSR [ ]
DEP Form [ ] EDD Required [ ]
EPA Superfund [X]

| 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? | Hexcr 537-876 7199 | VOCs (TMPs) 82603 | | | ID# | | | | | | | | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | | | | | | | | | | | | | |
| OC-SB-504-0.0-11.0-XXX | 12-11-12 | 8:05 | C | S | DC | 2 | 2 | 3 | | | | A1 | | | | | | | | 3 | See Becky |
| OC-SB-504-7.5-9.5-XXX | 12-11-12 | 8:30 | C | S | DC | 2 | 2 | 3 | | | | A2 | | | | | | | | 3 | Mason |
| OC-SB-505-0.0-11.0-XXX | 12-11-12 | 9:25 | C | S | DC | 2 | 2 | 3 | | | | A3 | | | | | | | | 3 | w/ |
| OC-SB-505-5.0-7.0-XXX | 12-11-12 | 9:45 | C | S | DC | 2 | 2 | 3 | | | | A4 | | | | | | | | 3 | questions |
| OC-SB-480-6.0-8.0-XXX | 12-11-12 | 10:10 | C | S | DC | 2 | 2 | | 4 | | | | | | | | | | | 4 | |
| OC-SB-484-5.5-7.5-XXX | 12-11-12 | 10:40 | C | S | DC | 2 | 2 | | 4 | | | | | | | | | | | 4 | |
| OC-SB-486-8.0-10.0-XXX | 12-11-12 | 12:15 | C | S | DC | 2 | 2 | | 4 | | | | | | | | | | | 4 | |
| OC-SB-491-6.0-8.0-XXX | 12-11-12 | 13:00 | C | S | DC | 2 | 2 | | 4 | | | | | | | | | | | 4 | |
| DUP-3 | 12-11-12 | / | C | S | DC | 2 | 2 | | 4 | | | | | | | | | | | 4 | |
| OC-SB-491-6.0-8.0-XMS/MSD | 12-11-12 | 13:00 | C | S | DC | 2 | 2 | | 4 | | | | | | | | | | | 4 | |

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*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 / [signature] | 12-11-12 / 15:00 | AMEC | [signature] | 12/11/12 1530 | |
| [signature] | 12/11/12 1530 | TAL | [signature] | 12/11/12 1715 | TA |
| | | | | | |

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 5.4 ICE

**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 / Mic Occasio | Lab PM: Becky Mason | Carrier Tracking No(s): |
| Company: AMEC | Phone: 339-927-3793 | E-Mail: | |
| Address: 2 Robbins Rd | Due Date Requested: Standard | | |
| City: Westford | TAT Requested (days): Standard | | |
| State, Zip: MA, ~~[illegible]~~ 01886 | | | |
| Phone: 978-692-9090 | Quote #: | | |
| Email: David.chapman@amec.com | PO #: | | |
| Project Name/number: Olin, Wilmington / 6107120016 | WO #: | | |
| Site: Olin, Wilmington | SSOW#: | | |

COC No: 25425
Page: 2 of 2
Job #: 480-29976

**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 [X] GW1/S1 [X]
RCP [ ] CT RSR [ ]
DEP Form [ ] EDD Required [ ]
EPA Superfund [X]

**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? | Hexavalent Cr 5W-846-7196 | | | | | | | | | | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | | | | | | | | | | | |
| OC-SB-508-0.0/1.0-xxx | 12-11-12 | 13:25 | C | S | DC | N | N | 3 | | | | A10 | | | | | | 3 | See Becky |
| OC-SB-508-8.0/10-xxx | 12-11-12 | 13:40 | C | S | DC | N | N | 3 | | | | A11 | | | | | | 3 | Mason w/ |
| OC-SB-508-12/14-xxx | 12-11-12 | 13:50 | C | S | DC | N | N | 3 | | | | A12 | | | | | | 3 | questions |

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**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 / [signature] | 12-11-12 / 15:00 | AMEC | [signature] | 12-11-12 1500 | |
| [signature] | 12/11/12 1530 | TAL | [signature] | 12/11/12 1715 | TA |
| | | | | | |

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 5.4 ICE

TAL-8245-360 1111

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

# Data Review Coversheet—Inorganics Dept

Method Name: ORP Method Reference: 2580B Date of Analytical Run: 12-12-12

Primary Reviewer's Initials & Date: 12-13-12 Secondary Reviewer's Initials & Date: 12/13/12

| Batch Numbers | 97380 | | | | |
|---|---|---|---|---|---|

**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: RWE

Date: 12-12-12

Instruments: Accumet 20 (Installed July 1998; New) Monitek 21 (Installed August 1996; New)

| | |
|---|---|
| pH | SM 4500H+/EPA 9040/EPA 9045C |
| Color | SM 2120B |
| Odor | SM 2150B |
| ORP | SM2580B |

| SAMPLE ID # | Time of Analysis | sample weight (g) | pH Analysis | | ORP | Color | | | Odor | comments |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Temp °C | pH (SU) | ORP (mV) | Dilution Factor (DF) | Observed Dil'd Color (C) | Color (units) [ =DF x C] | TON | |
| W12H_PH6 pH6 LCS | 0728 | 20 | 19.2 | 5.94 | | | | | | |
| W12L_ORP_LCS ORP LCS | 0757 | | | | 419 | | | | | |
| 480-29976 A1 AMEC 12-11-12 0805 | 0803 | | 18.8 | 7.18 | 36 | | | | | |
| A2 0830 | 0809 | | 18.5 | 7.11 | 26 | | | | | |
| A3 0925 | 0813 | | 18.7 | 4.99 | 49 | | | | | |
| A4 0945 | 0817 | | 18.7 | 6.54 | 19 | | | | | |
| A10 1325 | 0822 | | 18.6 | 5.51 | 30 | | | | | |
| A11 1340 | 0832 | | 19.2 | 5.69 | 19 | | | | | |
| A12 1350 | 0836 | | 19.0 | 7.44 | 13 | | | | | |
| A12 DUP 1350 DUP | 0840 | | 19.0 | 7.24 | 14 | | | | | |
| CCV pH6 | 0843 | | 20.3 | 5.99 | | | | | | |
| CCV pH6 | 1337 | | 19.6 | 5.98 | | | | | | |

**pH Meter Calibration:** Date & Time Calibrated: 12-12-12 / 0705 Analyst Initials: RWE Meter Slope = 99.5

Buffer Lot Numbers (Fisher Sci.): pH 4.00 = 120144 pH 7.00 = 114197 pH 10.01 = 114767

# Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 360-97378 | Analyst: Emerich, Rich W | Batch Open: 12/12/2012 6:50:00AM

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~360-97378/1 N/A | N/A | | 20 g | 20 mL | N/A | N/A | N/A | | LCS 360-97378/1-A |
| 2 | 480-29976-A-1 (2580B) | N/A | Solid | 20 g | 20 mL | 12/24/12 | 9_Days - R | 4 | | 480-29976-A-1-B |
| 3 | 480-29976-A-2 (2580B) | N/A | Solid | 20 g | 20 mL | 12/24/12 | 9_Days - R | 4 | | 480-29976-A-2-B |
| | 480-29976-A-3 (2580B) | N/A | Solid | 20 g | 20 mL | 12/24/12 | 9_Days - R | 4 | | 480-29976-A-3-B |
| | 480-29976-A-4 (2580B) | N/A | Solid | 20 g | 20 mL | 12/24/12 | 9_Days - R | 4 | | 480-29976-A-4-B |
| | 480-29976-A-10 (2580B) | N/A | Solid | 20 g | 20 mL | 12/24/12 | 9_Days - R | 4 | | 480-29976-A-10-B |
| | 480-29976-A-11 (2580B) | N/A | Solid | 20 g | 20 mL | 12/24/12 | 9_Days - R | 4 | | 480-29976-A-11-B |
| 8 | 480-29976-A-12 (2580B) | N/A | Solid | 20 g | 20 mL | 12/24/12 | 9_Days - R | 4 | | 480-29976-A-12-C |
| 9 | 480-29976-A-12~DU (2580B) | N/A | Solid | 20 g | 20 mL | 12/24/12 | 9_Days - R | 4 | | 480-29976-A-12-D DU |

# Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 360-97378 Analyst: Emerich, Rich W Batch Open: 12/12/2012 6:50:00AM

Method Code: 360-DI_LEACH-360 Batch End:

## Batch Notes

Balance ID

Blank Soil Lot Number

Batch Comment

## Comments

Login Comments for Job 29976: MCP

# Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 360-97378 Analyst: Emerich, Rich W Batch Open: 12/12/2012 6:50:00AM

Method Code: 360-DI_LEACH-360 Batch End:

## Reagent Additions Worksheet

| Lab ID | Reagent Code | Amount Added | Final Amount | By | Witness |
|---|---|---|---|---|---|
| LCS 360-97378/1 | W12L_ORP_LCS_00001 | 20 mL | 20 mL | | |

**Other Reagents:**

| Reagent | Amount/Units | Lot#: |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-29976-1

SDG No.:

Batch Number: 95496 Batch Start Date: 12/12/12 18:49 Batch Analyst: Doyle, Matthew

Batch Method: Moisture Batch End Date:

| Lab Sample ID | Client Sample ID | Method Chain | Basis | DISH# | DishWeight | SampleMassWet | SampleMassDry | | |
|---|---|---|---|---|---|---|---|---|---|
| 480-29976-A-5 | OC-SB-480-6.0/8.0-XXX | Moisture | T | 1 | 4.35 g | 13.45 g | 12.83 g | | |
| 480-29976-A-6 | OC-SB-484-5.5/7.5-XXX | Moisture | T | 2 | 4.35 g | 13.89 g | 12.72 g | | |
| 480-29976-A-7 | OC-SB-486-8.0/10-XXX | Moisture | T | 3 | 4.35 g | 12.79 g | 12.05 g | | |
| 480-29976-A-8 | OC-SB-491-6.0/8.0-XXX | Moisture | T | 4 | 4.35 g | 13.32 g | 12.92 g | | |
| 480-29976-A-8 MS | OC-SB-491-6.0/8.0-XXX | Moisture | T | 4 | 4.35 g | 13.32 g | 12.92 g | | |
| 480-29976-A-8 MSD | OC-SB-491-6.0/8.0-XXX | Moisture | T | 4 | 4.35 g | 13.32 g | 12.92 g | | |
| 480-29976-A-9 | OC-DUP-3 | Moisture | T | 5 | 4.35 g | 13.92 g | 13.41 g | | |

| Batch Notes | |
|---|---|
| Batch Comment | pp-fh-05-12 4.35 |
| Date samples were placed in the oven | 12/12/12 |
| Time samples were place in the oven | 1930 |
| Date samples were removed from oven | 12/13/12 |
| Time Samples were removed from oven | 1400 |

| 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.: 480-29976-1

SDG No.:

Batch Number: 140158 Batch Start Date: 12/17/12 12:26 Batch Analyst: Robinson, Ian

Batch Method: Moisture Batch End Date:

| Lab Sample ID | Client Sample ID | Method Chain | Basis | DISH# | DishWeight | SampleMassWet | SampleMassDry | | |
|---|---|---|---|---|---|---|---|---|---|
| 480-29976-A-1 | OC-SB-504-0.0/1.0-XXX | Moisture | T | 14 | 1.01 g | 6.63 g | 5.10 g | | |
| 480-29976-A-2 | OC-SB-504-7.5/9.5-XXX | Moisture | T | 15 | 1.01 g | 6.72 g | 5.42 g | | |
| 480-29976-A-3 | OC-SB-505-0.0/1.0-XXX | Moisture | T | 16 | 0.99 g | 6.25 g | 6.00 g | | |
| 480-29976-A-4 | OC-SB-505-5.0/7.0-XXX | Moisture | T | 17 | 0.98 g | 6.56 g | 5.04 g | | |
| 480-29976-A-10 | OC-SB-508-0.0/1.0-XXX | Moisture | T | 18 | 1.00 g | 6.18 g | 4.47 g | | |
| 480-29976-A-11 | OC-SB-508-8.0/10-XXX | Moisture | T | 19 | 0.99 g | 6.67 g | 5.57 g | | |
| 480-29976-A-12 | OC-SB-508-12/14-XXX | Moisture | T | 20 | 0.99 g | 6.21 g | 5.27 g | | |
| 480-29976-A-12 DU | OC-SB-508-12/14-XXX | Moisture | T | 21 | 0.98 g | 6.68 g | 5.78 g | | |

| Batch Notes | |
|---|---|
| Balance ID | 104 No Unit |
| Date samples were placed in the oven | 12/17/12 |
| Oven Temp when samples are put in oven | 105 Degrees C |
| Time samples were place in the oven | 12:45 |
| Date samples were removed from oven | 12/17/12 |
| Oven Temp when samples removed from oven | 104 Degrees C |
| Time Samples were removed from oven | 10:00 |
| Oven ID | Oven 3 |
| ID number of the thermometer | C4387 |
| 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.: 480-29976-1

SDG No.:

Batch Number: 97377 Batch Start Date: 12/12/12 06:50 Batch Analyst: Emerich, Rich W

Batch Method: DI Leach Batch End Date:

| Lab Sample ID | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | W12H_PH_6 00001 | | | |
|---|---|---|---|---|---|---|---|---|---|
| LCS 360-97377/1 | | DI Leach, 9045C | | 20 g | 20 mL | 20 mL | | | |
| 480-29976-A-1 | OC-SB-504-0.0/1.0-XXX | DI Leach, 9045C | S | 20 g | 20 mL | | | | |
| 480-29976-A-2 | OC-SB-504-7.5/9.5-XXX | DI Leach, 9045C | S | 20 g | 20 mL | | | | |
| 480-29976-A-3 | OC-SB-505-0.0/1.0-XXX | DI Leach, 9045C | S | 20 g | 20 mL | | | | |
| 480-29976-A-4 | OC-SB-505-5.0/7.0-XXX | DI Leach, 9045C | S | 20 g | 20 mL | | | | |
| 480-29976-A-10 | OC-SB-508-0.0/1.0-XXX | DI Leach, 9045C | S | 20 g | 20 mL | | | | |
| 480-29976-A-11 | OC-SB-508-8.0/10-XXX | DI Leach, 9045C | S | 20 g | 20 mL | | | | |
| 480-29976-A-12 | OC-SB-508-12/14-XXX | DI Leach, 9045C | S | 20 g | 20 mL | | | | |
| 480-29976-A-12 DU | OC-SB-508-12/14-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.: 480-29976-1

SDG No.:

Batch Number: 97379 Batch Start Date: 12/12/12 07:28 Batch Analyst: Emerich, Rich W

Batch Method: 9045C Batch End Date:

| Lab Sample ID | Client Sample ID | Method Chain | Basis | W12H_PH_6 00001 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| CCV 360-97379/10 | | 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.: 480-29976-1

SDG No.:

Batch Number: 97378 Batch Start Date: 12/12/12 06:50 Batch Analyst: Emerich, Rich W

Batch Method: DI Leach Batch End Date:

| Lab Sample ID | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | W12L_ORP_LCS 00001 | | | |
|---|---|---|---|---|---|---|---|---|---|
| LCS 360-97378/1 | | DI Leach, SM 2580B | | 20 g | 20 mL | 20 mL | | | |
| 480-29976-A-1 | OC-SB-504-0.0/1.0-XXX | DI Leach, SM 2580B | S | 20 g | 20 mL | | | | |
| 480-29976-A-2 | OC-SB-504-7.5/9.5-XXX | DI Leach, SM 2580B | S | 20 g | 20 mL | | | | |
| 480-29976-A-3 | OC-SB-505-0.0/1.0-XXX | DI Leach, SM 2580B | S | 20 g | 20 mL | | | | |
| 480-29976-A-4 | OC-SB-505-5.0/7.0-XXX | DI Leach, SM 2580B | S | 20 g | 20 mL | | | | |
| 480-29976-A-10 | OC-SB-508-0.0/1.0-XXX | DI Leach, SM 2580B | S | 20 g | 20 mL | | | | |
| 480-29976-A-11 | OC-SB-508-8.0/10-XXX | DI Leach, SM 2580B | S | 20 g | 20 mL | | | | |
| 480-29976-A-12 | OC-SB-508-12/14-XXX | DI Leach, SM 2580B | S | 20 g | 20 mL | | | | |
| 480-29976-A-12 DU | OC-SB-508-12/14-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

# Login Sample Receipt Checklist

Client: Olin Corporation

Job Number: 480-29976-1

**Login Number: 29976**

**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: 480-29976-1

**Login Number: 29976**
**List Number: 1**
**Creator: Martinez, Victor**

**List Source: TestAmerica Edison**
**List Creation: 12/15/12 11:06 AM**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | False | |
| 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 | 3.0° / 3.4° 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? | 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"). | False | |
| Multiphasic samples are not present. | False | |
| Samples do not require splitting or compositing. | False | |
| Residual Chlorine Checked. | False | |

# Login Sample Receipt Checklist

Client: Olin Corporation

Job Number: 480-29976-1

**Login Number: 29976**
**List Number: 1**
**Creator: Freitag, Kevin R**

**List Source: TestAmerica Irvine**
**List Creation: 01/04/13 10:49 AM**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | 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. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

**TestAmerica Westfield**
Westfield Executive Park 53 Southampton Road
Westfield, MA 01085
Phone (413) 572-4000 Fax (413) 572-3707

# Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

**Client Information**
Client Contact: David Chapman
Company: AMEC
Address: 2 Robbins Rd.
City: Westford, MA
State, Zip: MA, 01886
Phone: 978-692-9090
Email: David.Chapman@amec.com
Project Name/number: Olin Wilmington / 61071200016
Site: Olin Wilmington

Sampler: David Chapman / Nick Deisele
Phone: 339-927-3793
Lab PM: Becky Mason
E-Mail:
Carrier Tracking No(s):
COC No: 019022
Page: 1 of 2
Job #: 480-29976

Due Date Requested: Standard
TAT Requested (days): Standard
Quote #:
PO #:
WO #:
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 (specity)

Regulatory programs: MCP ☒ GW1/SI ☒ 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? | 1 Text or 533-816 7199 | 1 VOCs (TMP=) 82603 | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | | | |
| OC-SB-504-0.0(1.0-XXX | 12-11-12 | 8:05 | C | S | JD | Z | Z | 3 | | 3 | See Becky |
| OC-SB-504-7.5(9.5-XXX | 12-11-12 | 8:30 | C | S | JD | Z | Z | 3 | | 3 | Mason |
| OC-SB-505-0.0(1.0-XXX | 12-11-12 | 9:25 | C | S | JD | Z | Z | 3 | | 3 | wi |
| OC-SB-505-5.0(7.0-XXX | 12-11-12 | 9:45 | C | S | JD | Z | Z | 3 | | 3 | questions |
| OC-SB-480-6.0(8.0-XXX | 12-11-12 | 10:10 | C | S | JD | Z | Z | | 1 | 1 | |
| OC-SB-484-5.5(7.5-XXX | 12-11-12 | 10:40 | C | S | JD | Z | Z | | 1 | 1 | |
| OC-SB-486-8.0(10.-XXX | 12-11-12 | 12:15 | C | S | JD | Z | Z | | 1 | 1 | |
| OC-SB-491-6.0(8.0-XXX | 12-11-12 | 13:00 | C | S | JD | Z | Z | | 1 | 1 | |
| DUP-3 | 12-11-12 | / | C | S | JD | Z | Z | | 1 | 1 | |
| OC-SB-491-6.0(8.0-XMS/MSD | 12-11-12 | 13:00 | C | S | JD | Z | Z | | 1 | 1 | |

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**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 / [signature] | 12-11-12 / 15:00 | AMEC | [signature] | 12/11/12 1530 | |
| [signature] | 12/11/12 1530 | TAL | [signature] | 12/11/12 1715 | TA |
| | | | | | |

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 5.4 ICE

TAL-8245-360 0310

**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 / Nick Deusic | Lab PM: Becky Mason | Carrier Tracking No(s): |
| Company: AMEC | Phone: 339-927-3793 | E-Mail: | COC No: 25425 |
| Address: 2 Robbins Rd | Due Date Requested: Standard | | Page: 2 of 2 |
| City: Westford | TAT Requested (days): Standard | | Job #: 480-29976 |
| State, Zip: MA, ~~02150~~ 01886 | | | |
| Phone: 978-692-9090 | Quote #: | | |
| Email: David.chapman@amec.com | PO #: | | |
| Project Name/number: Olin, Wilmington / 61072006 | WO #: | | |
| Site: Olin, Wilmington | SSOW#: | | |

**Analysis Requested**: Hexcr 533-8467-7199

**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? | Hexcr | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | | |
| OC-SB-508-0.0/1.0-xxx | 12-11-12 | 13:25 | C | S | NDA | N | N | 3 | 3 | See Becky |
| OC-SB-508-8.0/10-xxx | 12-11-12 | 13:40 | C | S | NDA | N | N | 3 | 3 | Mason w/ |
| OC-SB-508-12/14-xxx | 12-11-12 | 13:50 | C | S | NDA | N | N | 3 | 3 | questions |

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**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 / | 12-11-12 / 15:00 | AMEC | | 12-11-12 1500 | |
| | 12/11/12 1535 | TAL | | 12/11/12 1715 | TA |
| | | | | | |

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 5.4 ICE

TAL-8245-360 1111