



Environment

Prepared for:
Tyco International
9 Roszel Road
Princeton, NJ 08540

Prepared by:
AECOM
Amherst, NY
60314190-1
July 29, 2014

Periodic Review Report (April 3, 2013 through April 7, 2014)

Former Scott Aviation Facility
Lancaster, New York
NYSDEC Site Code No. 9-15-149





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List of Acronyms

AECOM	AECOM Technical Services, Inc.
AS	air stripper
bgs	below ground surface
BSA	Buffalo Sewer Authority
cis-1,2 DCE	cis-1,2-dichloroethene
CD	compact disc
1,1-DCA	1,1-dichloroethane
DPE	Dual Phase Extraction
ft	feet
gpm	gallons per minute
GWCT	Groundwater Collection Trench
GWTB	Groundwater Treatment Building
HES	Heritage Environmental Services, LLC
lb/hr	pounds per hour
LNAPL	Light Non-Aqueous Phase Liquid
LRP	Liquid Ring Pump
Matrix	Matrix Environmental Technologies, Inc.
MVS	Mechanical Volatilization System
µg/m ³	micrograms per cubic meter
µg/L	micrograms per liter
NYCRR	New York Code of Rules and Regulations
NYSDEC	State of New York Department of Environmental Conservation
O&M	Operation and Maintenance
PRR	Periodic Review Report
RAER	Remedial Action Engineering Report
RAO	Remedial Action Objective
RDWP	Remedial Design Work Plan
RI/FS	Remedial Investigation/Feasibility Study
ROD	Record of Decision
SICR	Site Investigation Completion Report
SVE	Soil Vapor Extraction
1,1,1-TCA	1,1,1-trichloroethane

TCE	Trichloroethene
TEH	Total Extractable Hydrocarbons
TSS	Total Suspended Solids
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VC	Vinyl Chloride
VOC	Volatile Organic Compound

Certification

I hereby certify, as a Professional Engineer licensed in the State of New York, that this "Periodic Review Report (April 3, 2013 through April 7, 2014)," prepared by AECOM Technical Services, Inc. for Tyco International, was completed in conformance with accepted standards of practice for a project of this scope and nature, as well as the requirements of State of New York, Department of Environmental Conservation (NYSDEC), Order on Consent, Index No. B9-0377095-05, for the former Scott Aviation property (formerly Figgie International), NYSDEC Site Code No. 9-15-149.

Warning: It is a violation of the New York State Education Law for any person, unless acting under the direction of a licensed professional engineer, to alter an item in these plans or report in any way. If alterations are required, they shall be made in accordance with Article 145, Subsection 7209 of the New York State Education Law.

PE Stamp

Signature: _____



Date: July 29, 2014

1.0 Introduction

On behalf of Tyco International and pursuant to the requirements of State of New York, Department of Environmental Conservation (NYSDEC), Order on Consent, Index No. B9-0377095-05, AECOM Technical Services, Inc. (AECOM) prepared this Periodic Review Report (PRR) to summarize the operation and maintenance (O&M) and groundwater monitoring activities for the combined dual phase extraction (DPE) remediation system at the former Scott Aviation property (the "Site"), NYSDEC Site Code No. 915149, located at 225 Erie Street, Village of Lancaster, County of Erie, State of New York (**Figure 1**). A selected remedy for soil and groundwater was described in the Record of Decision (ROD), Scott Aviation Site, Village of Lancaster, Erie County, Site Number 915149, which was signed into Declaration on November 7, 1994 (NYSDEC, November 1994). The reporting period discussed herein encompasses the period between April 2013 and April 2014.

1.1 Report Organization

The purpose of this PRR is to provide a summary of the current remediation system configuration, describe significant O&M and groundwater monitoring activities, discuss overall remediation system performance during the reporting period, and provide recommendations for future combined DPE remediation system operation.

This PRR was developed to adhere to NYSDEC site investigation and remediation requirements (NYSDEC DER-10, May 2010). More specifically, this report provides the following information:

- Report organization details, a brief summary of Site history, previous Site investigations, remediation activities, and remedial action objectives (RAOs) for the Site (Section 1.0);
- A description of the current combined DPE remediation system configuration and detailed summary of O&M activities performed during the reporting period (Section 2.0);
- A groundwater monitoring program summary including a description of groundwater monitoring activities completed during the reporting period, a detailed review of the April 2014 comprehensive groundwater monitoring event, and a comparison of historical comprehensive groundwater analytical results to the April 2014 comprehensive groundwater analytical results (Section 3.0);
- A summary of groundwater remediation system monitoring and remediation progress (Section 4.0);
- Conclusions, a description of upcoming Site-related activities, and a proposed monitoring and compliance sampling schedule (Section 5.0);
- Certification of the Institutional Controls and Engineering Controls (Section 6.0); and,
- References used in the preparation of this report (Section 7.0).

1.2 Site Background

The following subsections present a brief summary of Site history and previous investigation and remediation activities.

1.2.1 Site Geology/Hydrogeology

The native soils underlying the site generally consist of interbedded silts and clays with discontinuous sporadic fine sand lenses (shallow overburden). A thin coarse-grained layer is located above the bedrock (deep overburden). Based on the deep overburden wells, the average thickness of the overburden is approximately 21 feet (ft) below ground surface (bgs); ranging from 20 ft in the south to 26 ft in the north.

Groundwater is first encountered at the Site in the shallow overburden and then again just above the bedrock. The natural flow of groundwater at the Site is to the northwest. Depth to groundwater across the Site in both the shallow and deep overburden is measured quarterly and is discussed in detail in Section 3.2 of this report.

1.2.2 Site Remedial Investigation/Feasibility Study

A 3,000-gallon underground storage tank (UST) was previously located at the Site, immediately adjacent to the southwest corner of Scott Aviation Plant 2 (**Figure 2**). The UST was used to store waste cutting oil and spent chlorinated solvents generated during manufacturing operations conducted in Plant 2. Activities at Plant 2 have historically included the machining of piece parts from metal feedstock and the fabrication of cores to fit into devices that provide emergency oxygen upon demand in commercial aircraft (Earth Tech, April 2004).

During April 1991, the former Site owner, Figgie International, removed the aforementioned UST. Based on contamination discovered during the removal of the UST, Figgie International entered into a remedial investigation/feasibility study (RI/FS) Order on Consent with the NYSDEC on July 9, 1992, and an RI was initiated by Versar, Inc. on behalf of Figgie International in the immediate area surrounding the former UST location. The final RI report, approved by the NYSDEC on December 13, 1993, indicated the presence of volatile organic compounds (VOCs) in excess of NYSDEC soil and groundwater guidance values to the west of Plant 2. A subsequent FS report was prepared by Figgie International and approved by the NYSDEC on August 29, 1994 (O'Brien & Gere, July 1996).

1.2.3 Record of Decision

Based on the results of the RI/FS, the NYSDEC prepared a ROD, dated November 7, 1994, which required remedial actions to be initiated to address contaminated soils and groundwater at the Site. The ROD specified that soil remediation would be accomplished by excavating all soils with VOCs above Site-specific RAOs and subsequently treating the soil on-Site using an ex-situ soil vapor extraction (SVE) system. The established RAOs for the Site are presented in **Table 1** and are discussed further in Section 1.3 of this report. The ROD also specified that groundwater remediation would be performed by installing a groundwater collection trench (GWCT) west of Plant 2 to induce hydraulic capture of groundwater impacted with VOCs and by constructing an associated groundwater treatment system. A ROD Amendment approving the use of a Mechanical Volatilization System (MVS) to treat excavated soils in lieu of the proposed ex-situ SVE system was issued by the NYSDEC on April 19, 1995 (O'Brien & Gere, July 1996).

1.2.4 Previous Remediation Activities

This section summarizes previous soil and groundwater remedial activities performed at the Site.

1.2.4.1 Source Area Soil Excavation and Treatment

Following approval of the Remedial Design by the NYSDEC in September 1995, soil remediation actions were initiated. Soils to the west of Plant 2 in the vicinity of the former UST were excavated and treated on-Site using an MVS. The MVS process consisted of a screening plant and hammermill shredder that mechanically pulverized and aerated the excavated soil that had previously been amended with pulverized quick lime. Volatilization of the VOCs from the soil occurred as a result of the sieving and pulverizing actions and also because of the heat generated by the reaction of lime with moisture in the soil. Approximately 5,600 cubic yards of soil were excavated from depths ranging between 2 ft and 21 ft bgs (bedrock contact) and treated using the MVS. Based on analytical results for the treated soil (each individual VOC <1 milligram per kilogram (mg/kg) and total VOCs <10 mg/kg), the NYSDEC approved backfilling the excavation with the originally excavated soil processed on-Site with the MVS on December 11, 1995. Backfilling of the excavation was completed on December 19, 1995.

1.2.4.2 Groundwater Collection Trench

In accordance with the ROD, a 200-foot long GWCT was constructed approximately 90 ft west of Plant 2 during February 1996. The purpose of the trench was to maintain hydraulic control of VOC-impacted groundwater. The bottom of the trench was excavated down to bedrock (approximately 25 ft bgs). The bottom five feet of the trench consists of rounded pea gravel and the top 20 feet of the trench was backfilled with remediated soils. A 6-inch diameter, slotted high density polyethylene pipe located at the bottom of the trench conveys water to a wet well located at the north end of the trench. The water is transferred from the wet well using a submersible pump through a 1-inch diameter Schedule 80 polyvinyl chloride pipe to a treatment system located in the Groundwater Treatment Building (GWTB) immediately west of Plant 2.

The groundwater treatment system consists of a low-profile shallow tray air stripper (AS) unit. Treated water from the AS unit is discharged under a City of Buffalo Pollutant Discharge Elimination System permit via a 2-inch diameter force main to the local sanitary sewer located south of the GWTB at Erie Street (O'Brien & Gere, July 1996). Start-up of the groundwater treatment system occurred on March 1, 1996. **Figure 2** shows the location of the GWCT and GWTB.

1.2.5 Additional Investigation Activities

Annual groundwater monitoring completed in April 1998 indicated an increasing trend in VOC concentrations in MW-4, located to the west of the GWCT at the western property boundary of the Site. Additionally, light non-aqueous phase liquid (LNAPL) was observed at MW-4 on the water level probe during a quarterly monitoring event conducted in November 1998. In April 1999, four new monitoring wells (designated MW-7, MW-8, MW-9, and MW-10) were installed to evaluate the extent and potential source of VOCs and LNAPL observed in MW-4. Based on repeated detections of VOCs and LNAPL in the groundwater to the west of the GWCT, a comprehensive site investigation was conducted in February 2003 to further assess the vertical and horizontal extent of VOCs and LNAPL.

During the 2003 investigation, LNAPL was observed in MW-8 only. A total of 21 direct push technology borings were advanced to the east and west of the GWCT to further assess the extent of impacted soils west of Plant 2. Results were summarized in the June 2003 Site Investigation Completion Report (SICR), and the data indicated the continued presence of chlorinated VOCs above the RAOs in the saturated soil and groundwater, primarily to the west of the GWCT (Earth Tech, June 2003).

1.2.6 Remedial Alternatives Analysis

Based upon the results of the 2003 investigation, a remedial alternatives analysis was completed and results were included in the SICR. DPE was recommended to be implemented to supplement the existing remediation system and to further remediate VOCs in soil and groundwater at the Site (Earth Tech, June 2003).

At the request of the NYSDEC, a Remedial Design Work Plan (RDWP) was prepared that provided a detailed description of the proposed DPE system recommended in the SICR (Earth Tech, November 2003). A discussion of DPE system construction, startup, and O&M activities during approximately the first year of operation (May 14, 2004 through July 19, 2005) is provided in the first Remedial Action Engineering Report (RAER; May 14, 2004 through July 19, 2005; Earth Tech, November 2005).

1.3 Remedial Action Objectives

Cleanup criteria for Site soil and groundwater are based on the RAOs established in the ROD (NYSDEC, November 1994). **Table 1** presents the Site-specific cleanup criteria. The RAOs for the combined soil and groundwater remediation system include:

1. Maintain hydraulic control of shallow groundwater and eliminate potential off-site migration of VOCs along the western property boundary.
2. Lower the groundwater table within the impacted source area to expose the aquifer matrix and subsequently extract soil vapors containing VOCs using enhanced vacuum extraction. By lowering the water table surface, the DPE system will induce groundwater flow toward the system extraction wells, thereby allowing the applied vacuum to more effectively remove VOCs in the exposed aquifer matrix.
3. Reduce the mass of VOCs in the subsurface and remediate Site soil and groundwater to meet RAOs.
4. Obtain No Further Action status for the Site.

2.0 Current Remediation System Configuration and Operation and Maintenance Summary

This section provides a description of the current remediation system configuration and a summary of remediation system O&M activities performed during the reporting period (April 3, 2013 through April 7, 2014) for the combined DPE remediation system.

2.1 Current Remediation System Description and Configuration

As described in Section 1.2.4.2 of this report, the initial groundwater remediation system installed at the Site consisted of a 200-foot long GWCT and an associated groundwater treatment system located to the west of Plant 2. The GWCT remediation system was combined to operate with a new DPE remediation system installed at the Site between February and May 2004. The combined remediation systems, known collectively as the combined DPE remediation system, began operation on May 14, 2004.

Figure 2 depicts the combined DPE remediation system including DPE system recovery wells, monitoring wells, and nested piezometers, DPE system piping locations, the DPE system trailer, and the pre-existing GWCT and GWTB. The DPE system consists of eight recovery wells. **Figure 3** presents a typical DPE recovery well construction diagram. Three additional monitoring wells (MW-8R, MW-11 and MW-12) and four pairs of nested piezometers (MW-13S/D through MW-16S/D) were also installed as part of DPE system construction activities and monitoring activities completed in 2004 and 2005. A typical nested piezometer construction diagram is shown in **Figure 4**. Monitoring well, nested piezometer, injection well and DPE system recovery well construction specifications are provided in **Table 2**. Section 2.0 of the first RAER provides a detailed summary of recovery well and monitoring well installation, subsequent DPE system installation, and DPE system equipment specifics (Earth Tech, November 2005). **Figure 5** presents the process and instrumentation diagram for the combined DPE remediation system.

During the current reporting period, the combined DPE remediation system extracted groundwater and soil vapors from the shallow and deep recovery wells. Shallow recovery well, DPE-6 (located in former soil excavation area to the east of the GWCT), was inoperable due to excessive calcium hydroxide (lime) scale buildup issues. The optimization plan during the current reporting period was to focus extraction on both the shallow and deep perched water-bearing unit, which consists of silty clays and silty sands, poorly sorted sands, and gravel respectively.

Recovery wells DPE-1, DPE-5, and DPE-6 have not been operated since the first year of system operation due to lime scale. This scale caused continuous fouling of DPE recovery system conveyance piping and associated components and subsequently resulted in excessive downtime of the DPE system for maintenance. The scale within these three extraction wells is attributed to historic soil remediation activities conducted at the Site that mixed excavated soil with pulverized quick lime. The treated soil was subsequently used as backfill in the vicinity of these recovery wells (refer to Section 1.2.4.1 of this report).

2.2 Combined DPE Remediation System Operation Summary

With the exception of minor system equipment breakdowns and malfunctions noted in Section 2.3.2 of this report, the system ran with a total DPE system runtime of approximately 97 percent between the first quarter 2014 and second quarter 2014 sampling events. This runtime percentage was derived in part from the liquid ring pump (LRP) hour meter. The primary cause of the downtime was the intentional shutdown of the system to facilitate repairs to the LRP between the first quarter 2014 and second quarter 2014 sampling events.

Between the first quarter 2014 and second quarter 2014 sampling events, the DPE system collected approximately 56,391 gallons of groundwater at an average flow rate of 0.52 gallons per minute (gpm). The GWCT collected approximately 83,720 gallons of groundwater at an average flow rate of 0.77 gpm. Therefore, the total combined DPE remediation system groundwater treated and discharged to the sanitary sewer by the AS unit effluent pump was approximately 140,111 gallons at a combined average flow rate of 1.29 gpm.

2.3 Routine DPE System Maintenance and Troubleshooting

The following subsections describe routine DPE system maintenance and troubleshooting as well as associated waste disposal that occurred during the current reporting period.

2.3.1 Routine System Maintenance

During routine weekly site visits, AECOM personnel recorded system operating parameters, inspected and cleaned the various system components and piping, inspected and replaced filters (air and water), and maintained the LRP seal fluid levels. Minor system repairs were also made as necessary throughout the reporting period. The O&M data collected during the site visits was recorded using the O&M checklist presented in **Appendix A**. Data collected on these checklists are used to track the performance of the system.

2.3.2 System Troubleshooting

AECOM responded to system shutdowns and delays that required sporadic troubleshooting and maintenance during the current reporting period. These activities are summarized below. (Note: This information is on the basis of Tyco's fiscal year, which begins in October.)

Third Quarter 2013 (following April 2013 sampling event through end of July 2013 sampling event) combined DPE remedial system O&M:

- Performed the DPE conveyance line scale abatement activity with AECOM's subcontractor Matrix Environmental Technologies, Inc. (Matrix).
- Matrix completed repairs to the liquid ring pump and GWCT electrical box.
- Matrix completed repairs to the liquid ring pump and air stripper effluent pump.
- On July 1, 2013, AECOM's subcontractor Heritage Environmental Services, LLC (HES) completed a hazardous waste pickup.

Fourth Quarter 2013 (following July 2013 sampling event through end of October 2013 sampling event) combined DPE remedial system O&M:

- Matrix removed and transported the DPE LRP to the manufacturer for repair. Note: The DPE remediation system was temporarily turned off while the LRP was being evaluated for repair; the GWCT remediation system remained running.

First Quarter 2014 (following October 2013 sampling event through end of January 2014 sampling event) combined DPE remedial system O&M:

- AECOM and Matrix completed installation of the rebuilt liquid ring pump.
- AECOM and Matrix completed repairs on the DPE remedial system (holding tank transfer pump and associated conveyance piping).
- AECOM performed quarterly O&M including cleaning of the knock-out tank, holding tank, bag filter vessels, winterization of the DPE remediation trailer, etc.
- AECOM and Matrix completed replacement of knockout tank transfer pump and drive coupling.
- AECOM and Matrix completed repairs (replacement) to the conveyance piping between the DPE trailer and the AS and disassembled and cleaned the AS.

Second Quarter 2014 (following January 2014 sampling event through end of April 2014 sampling event) combined DPE remedial system O&M:

- AECOM oversaw the 180-day hazardous waste pickup by subcontractor HES on January 21, 2014.
- AECOM completed repairs (cleaning) to the AS totalizer.
- AECOM and Matrix performed repairs to the LRP effluent air stack and replaced the AS pressure release valve.
- AECOM and Matrix performed the DPE well and conveyance piping scale abatement activity.

2.3.3 Waste Disposal

On July 1, 2013, HES transported and disposed one 55-gallon drum (135 pounds) containing sediment, bag filters, and miscellaneous debris. This hazardous material (F002 waste code) was generated during O&M activities conducted at the Site between January 2013 and July 2013. AECOM personnel supervised the loading of the drum at the Site prior to transportation to an approved disposal facility.

On January 21, 2014, HES transported and disposed one 55-gallon drum (207 pounds) containing sediment, bag filters, and miscellaneous debris. This hazardous material (F002 waste code) was generated during O&M activities conducted at the Site between July 2013 and January 2014. AECOM personnel supervised the loading of the drum at the Site prior to transportation to an approved disposal facility.

The next hazardous waste pickup (for waste generated between January 2014 and July 2014) is planned for July 2014.

3.0 Groundwater Monitoring Summary

A detailed description of groundwater monitoring activities completed during the current reporting period (April 3, 2013 through April 7, 2014), a review of the most recent comprehensive groundwater monitoring event analytical results, and a comparison of those results to historical comprehensive groundwater monitoring event analytical data are provided in the following sections.

3.1 Description of Groundwater Monitoring Activities for the Reporting Period

The groundwater monitoring program associated with the original GWCT system was combined with the monitoring program developed for the new DPE system in May 2004. The monitoring wells sampled varied during the remainder of 2004 and throughout 2005. The NYSDEC-approved first RAER defined the monitoring wells to be sampled during subsequent monitoring events in **Table 10** (Earth Tech, November 2005). A total of four groundwater monitoring events were performed during the current reporting period (**Table 3**); these included three targeted quarterly monitoring events (July 2013, October 2013, and January 2014) and one comprehensive monitoring event (April 2014).

In July 2013, October 2013, and January 2014, quarterly sampling was performed which targeted six perimeter monitoring wells (MW-2, MW-3, MW-6, MW-10, MW-11 and MW-12 and four wells located within the TCE plume (MW-4, MW-8R, MW-13S and MW-16S). In April 2014, a comprehensive groundwater monitoring event was conducted that included all Site monitoring wells and nested piezometer pairs (17 total wells). Discussions of the results and the associated laboratory reports for the July 2013, October 2013, and January 2014 groundwater sampling events have previously been provided to the NYSDEC in quarterly monitoring summary reports (AECOM, August 2013; AECOM, November 2013; and AECOM, February 2014). A discussion of the groundwater analytical results for the comprehensive April 2014 sampling event is presented in Sections 3.2 and 3.3 of this report.

3.2 April 2014 Groundwater Elevations and Groundwater Flow Direction

AECOM personnel collected groundwater samples for the latest comprehensive monitoring event between April 7 and 10, 2014, in accordance with the procedures outlined in the NYSDEC-approved RDWP. Monitoring wells sampled in April 2014 were MW-2, MW-3, MW-4, MW-6, MW-8R, MW-9, MW-10, MW-11, MW-12, MW-13S, MW-13D, MW-14S, MW-14D, MW-15S, MW-15D, MW-16S, and MW-16D (**Figure 2**). Field forms generated during the April 2014 sampling event are provided in **Appendix B**. Groundwater samples were analyzed for VOCs by TestAmerica, Inc. located in Amherst, New York, using Method 8260B in United States Environmental Protection Agency (USEPA) analytical procedures manual SW-846.

A complete round of groundwater levels was measured for all Site wells and piezometers. **Table 4** provides a summary of groundwater elevations measured on April 7, 2014. A historical summary of groundwater levels and corresponding elevations and hydrographs for each monitoring well and nested piezometer pair are provided in **Appendix C**. Monitoring wells MW-2, MW-3, MW-4, MW-6, MW-8R, MW-9, MW-10, MW-11, and MW-12 are screened across both the shallow and deep water-bearing units. The nested piezometer pairs (MW-13S/D, MW-14S/D, MW-15S/D, and MW-16S/D) are discretely screened, with one piezometer screened in the shallow water-bearing unit ('S' designation) and one piezometer screened in the deep water-bearing unit ('D' designation).

Two groundwater surface contour maps for April 2014 are provided. The average water levels calculated for the nested piezometer pairs in conjunction with monitoring well water level data were used to generate the groundwater surface contours presented in **Figure 6**. **Figure 7** illustrates the groundwater surface contours using monitoring well and deep piezometer water level data.

Groundwater elevations measured on April 7, 2014 ranged from 667.57 ft above mean sea level (AMSL) at MW-4 to 686.62 ft AMSL at MW-15S. Based on these water level measurements, the groundwater surface beneath the Site continues to exhibit a radial pattern (i.e., cone of depression), and groundwater flows inward towards the operating DPE recovery wells and the GWCT. **Figures 6 and 7** show a depression in the water table surface centered on MW-4, which is located at the western property boundary. The historical groundwater flow direction at the Site before active groundwater remediation was initiated had been predominantly to the northwest. These figures indicate that the combined DPE remediation system continues to induce groundwater flow reversal along the western property boundary. This groundwater flow reversal helps to provide sustained hydraulic capture of the on-site groundwater.

3.3 April 2014 Groundwater Analytical Results

The April 2014 groundwater sampling event was the ninth comprehensive sampling event conducted at the Site following the installation of the DPE system in May 2004. VOCs detected in groundwater during the April 2014 sampling event are presented in **Table 5**. The following table summarizes the VOCs detected, their respective concentration ranges, the number of detections, and the number of those detections that exceeded Site-specific groundwater RAOs or groundwater criteria presented in New York Code of Rules and Regulations (NYCRR), Title 6, Part 702.15(a)(2) and 703.5.

**Groundwater Quality Results
April 2014**

VOCs Detected in Groundwater	Concentration Range (µg/L)	Number of Detections	RAO/NYCRR Exceedances
cis-1,2-Dichloroethene	1.5 – 69,000	12	11
Vinyl chloride	1.2 – 3,900	12	8
1,1-Dichloroethane	0.82 – 880	9	8
Chloroethane	0.68 – 2,400	9	6
Trichloroethene	30 – 100,000	6	6
1,1-Dichloroethene	0.85 – 380	5	4
Acetone	3.3 – 1,400	4	1
1,2-Dichloroethane	1,000	1	1
1,1,1-Trichloroethane	1.4	1	1
2-Butanone	290	1	1
Toluene	150	1	1
Xylenes, total	24	1	1
Benzene	0.80 – 0.93	2	0

A total of 13 VOCs were detected in groundwater during the April 2014 sampling event. Twelve of the 13 VOCs detected exceeded either the Site-specific RAOs or the NYCRR criteria for groundwater at one or more wells. **Figures 8 through 16** illustrate April 2014 isoconcentration contours for Trichloroethene (TCE), Toluene, cis-1,2-Dichloroethene (cis-1,2-DCE), Vinyl Chloride (VC), 1,1,1-Trichloroethane (1,1,1-TCA), 1,1-Dichloroethane (1,1-DCA), Chloroethane, Xylenes (total), and total

VOCs, respectively. These compounds are listed in the ROD as the Site-specific compounds for which RAOs were established.

The highest concentrations of VOCs were detected west of the GWCT and the former soil excavation area, in a suspected remnant source area located in the vicinity of MW-4, MW-8R, MW-13S, and MW-16S. TCE and cis-1,2-DCE exhibited the highest overall concentrations in groundwater. As has been observed historically, the shallow piezometers, which are screened in silts and clays, generally showed higher concentrations of the most frequently detected VOCs when compared to their deeper piezometer counterparts, which are screened in sands and gravels located immediately above bedrock.

The presence and distribution of TCE daughter products (cis-1,2-DCE, trans-1,2-DCE, and VC) and 1,1,1-TCA daughter products (1,1-DCA and chloroethane) provide supportive evidence that the attenuation of TCE and 1,1,1-TCA and their daughter products via reductive dechlorination continues to occur naturally at the Site. The occurrence of these daughter products appears to be directly related to the distribution of TCE and 1,1,1-TCA in the subsurface. The highest concentrations of TCE and 1,1,1-TCA detected during April 2014 were centered on a suspected source area located in the vicinity of MW-4, MW-8R and MW-16S. The daughter products of TCE and 1,1,1-TCA were also detected at their highest concentrations around this suspected source area. A limited number of other VOCs were sporadically detected in the perched groundwater at the Site, with the majority of these detections at MW-15S.

An electronic copy of the analytical laboratory data package for the April 2014 sampling event is provided in **Appendix D** on a compact disc (CD).

3.4 Comparison of April 2014 Groundwater Analytical Data with Historical Groundwater Analytical Data

As previously described, quarterly groundwater quality data obtained during the reporting period, with the exception of the April 2014 sampling event, has already been submitted to the NYSDEC in quarterly summary reports. Trend plots illustrating concentrations of TCE, cis-1,2-DCE, VC, chloroethane, 1,1-DCA, and 1,1,1-TCA over time are provided in **Appendix E**. Because concentrations of TCE are among the highest detected at the Site, a discussion of historical and current TCE concentrations in perched groundwater at Site monitoring wells and piezometers is provided in the table below.

TCE concentrations decreased or remained constant in all but three wells (MW-4, MW-8R, and MW-15S) since the last comprehensive groundwater sampling event conducted at the Site in April 2013. The percent reduction in TCE concentrations ranged from 20% in MW-13S to 74% in MW-16S. Groundwater collected from perimeter monitoring wells MW-2, MW-3, MW-6, MW-9, MW-10, MW-11, and MW-12, contained no detections of TCE at or above the reporting detection limit. Based on these results, the combined DPE and GWCT treatment system continues to successfully prevent migration of TCE off-site.

**Summary of Annual TCE Concentrations in Groundwater
Baseline Sampling Events (November 2003 and April 2004) through April 2014**

Well ID	TCE Concentrations (µg/L)										Percent TCE Increase/ (Decrease) from April 2013
	Nov 2003 April 2004	April 2005	July 2006	Oct 2007	Jan 2009	April 2010	April 2011	April 2012	April 2013	April 2014	
MW-2	NS	<10	< 25	< 5	< 5	<25	<1	<1	<1	<1	NA
MW-3	NS	<10	< 25	5 J	< 5	<5	<1	<1	<1	<1	NA
MW-4	270*	NS	2,400	4,800	19,000	3,000	13,000	39,000	12,000	32,000	167%
MW-6	< 10*	< 10	< 5	0.63 J	< 5	<5	<1	<1	<1	<1	NA
MW-8R	NS	15,000	16,000	2,200	8,400	2,500 J	8,900	99,000	64,000	100,000	56%
MW-9	6*	< 10	1.3	2.6 J	< 5	<5	<1	<1	<1	<1	NA
MW-10	NS	<10	< 5	< 5	< 5	<5	<1	<1	<1	<1	NA
MW-11	NS	<10	< 20	0.71	0.77 J	0.95 J	1.2	0.51	<1	<1	NA
MW-12	NS	< 10	< 25	< 5	NS	<5	<1	<1	<1	<1	NA
MW-13S	10,000	760	17,000	570	3,400	1,400	40,000	39,000	40,000	32,000	(20%)
MW-13D	17	8	2 J	< 5	< 5	< 5	22	62	53	30	(43%)
MW-14S	21	< 10	5.7 J	< 5	0.38 J	< 5	< 1	1.3	<1	<1	NA
MW-14D	21	10	0.96 J	< 5	< 5	9.4	0.97	0.64J	0.99	<1	(NA)
MW-15S	280	400	400	400	180	270	200	240	140	160	14%
MW-15D	21	< 50	4.9 J	3.6 J	< 25	<5	<8	<10	<8	<20	NA
MW-16S	860,000	400,000	310,000	130,000	92,000	220,000	250,000	250,000	230,000	61,000	(74%)
MW-16D	6,900	32	6.1	6 J	52	12	22	42	57	<25	(56%)

Notes: * - Baseline concentration from November 2003.

J – Estimated concentration.

NS – Not sampled.

NA – Not available.

4.0 Groundwater Remediation System Monitoring and VOC Mass Removal Summary

This section describes system performance monitoring and summarizes the mass of VOCs removed by the combined DPE remediation system during the current reporting period from April 2013 through April 2014.

4.1 System Monitoring Results

4.1.1 Air Discharge Monitoring

Samples were obtained from the vapor effluent of the AS and LRP on a quarterly basis and analyzed by TestAmerica, Inc., located in South Burlington, Vermont, using by USEPA Compendium Method TO-15. Based on the analytical results for the vapor samples collected, the exhaust mass-loading rate was calculated and presented to the NYSDEC in the Site quarterly groundwater monitoring reports. The combined total of the exhaust mass-loading rates for both vapor discharges are compared to the NYSDEC guidance value of 0.5 pounds per hour (lb/hr) of VOCs. Vapor effluent monitoring results for the first three monitoring events (July 2013, October 2013, and January 2014) during the reporting period have been previously submitted to NYSDEC, and no exceedance of the NYSDEC standard for VOC emissions occurred.

AECOM collected vapor effluent samples from the AS and LRP units for the final quarterly monitoring event of the reporting period on April 7, 2014. The DPE system vapor effluent analytical results for the reporting period are summarized in **Table 6**, and an electronic copy of the analytical laboratory data package is provided on the enclosed CD in **Appendix D**. During the April 2014 event, a total of five VOCs were detected in the LRP unit effluent, and a total of five VOCs were detected in the AS unit effluent. The total VOC discharge was 36,971 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) in the LRP effluent and 1,639 $\mu\text{g}/\text{m}^3$ in the AS unit effluent. Based on these effluent totals, the calculated VOC discharge-loading rate for the combined DPE remediation system was 0.006 lb/hr, which is well below the NYSDEC discharge guidance value of 0.5 lb/hr.

4.1.2 Water Discharge Monitoring

Following the sale of the Site to AVOX Systems Inc., in September 2004, AECOM assumed responsibility for Buffalo Sewer Authority (BSA) permit compliance sampling and reporting. AECOM completed a new sewer discharge permit application on behalf of Scott Technologies, Inc. (former owner of Scott Aviation, Inc., and a continuing subsidiary of Tyco International). The new permit (No. 14-04-E4045) was approved by the BSA on November 8, 2013 and became effective on April 1, 2014. The current BSA permit for the combined DPE remediation system will expire on March 31, 2017.

The current BSA permit requires quarterly sampling of treated groundwater discharge from the combined DPE groundwater remediation systems for a specific list of VOCs, total extractable hydrocarbons (TEH), total suspended solids (TSS), and pH. The quarterly discharge samples are analyzed by TestAmerica Inc., located in Amherst, New York. AECOM collected BSA compliance samples from the AS unit treated effluent discharge sampling point in July 2013, October 2013, January 2014, and April 2014. Each quarter, AECOM tabulated the analytical data, converted the

data to mass loading rates, compared the results to the BSA permit requirements, and prepared a letter report for submittal to the BSA and NYSDEC. No exceedance of any BSA permit discharge limit occurred during any of the four reporting periods.

4.2 Mass Removal Summary

The estimated VOC mass removed for both groundwater and soil vapor was calculated based on operational and analytical data collected during the reporting period. The mass removal via groundwater extraction by the combined DPE remediation system was calculated using total influent VOC concentrations, collected quarterly, and AS unit totalizer readings. The calculations are presented in **Table 7**. As shown in the table, approximately 1.3 pounds of VOCs were removed via groundwater extraction by the combined GWCT and DPE systems per data collected from the July 2013 through April 2014 sampling events.

The DPE system additionally collects vapor from the subsurface and volatilizes VOCs during the groundwater extraction process. Mass removal was calculated using LRP runtime measurements, the total average LRP effluent sample VOC concentration for the reporting period, and the actual LRP airflow rate based on the manufacturer's operational curve, converted to standard cubic feet per minute. These calculations are presented in **Table 8**; approximately 90.4 pounds of VOCs were removed via the DPE system as vapor and approximately 3.8 pounds of VOCs were removed via the AS system as vapor. Therefore, including both mass removal through groundwater and vapor, a total of 95.5 pounds of VOCs are estimated to have been removed by the combined DPE remediation system during the current reporting period (year). Note: The LRP was not operational during the October 2013 and January 2014 sampling events, so a total VOC discharge loading was calculated using averages from the reporting period.

Combining the totals for the five reporting periods, the cumulative mass of VOCs removed by the system is estimated at 2,815 pounds since the startup of the system in its current configuration on May 14, 2004.

5.0 Conclusions and Recommendations

Based on results of the combined DPE remediation system analytical and system operational data collected during the reporting period, conclusions, upcoming Site-related activities and a proposed system monitoring schedule are presented below.

5.1 Conclusions

1. About 95.5 pounds of VOCs were removed by the combined DPE remediation system during the reporting period from April 3, 2013 through April 7, 2014. An estimated cumulative total of 2,815 pounds of VOCs has been removed since system startup on May 14, 2004.
2. The combined DPE remediation system experienced higher runtime during April 2013 – April 2014 (approximately 66%) when compared to the runtime for April 2012 – April 2013 (approximately 47%). The DPE runtime for the 2014 second calendar quarter was 97%.
3. During the current reporting period from April 3, 2013 through April 7, 2014, the total combined system groundwater treated and discharged to the sanitary sewer via the AS unit was approximately 737,922 gallons, at a combined average flow rate of 1.39 gpm.
4. The system discharges were in compliance with applicable requirements (i.e., BSA effluent discharge permit for liquids, and the NYSDEC emission standard for vapor).
5. Groundwater elevations measured on April 7, 2014 ranged from 667.57 ft AMSL to 686.62 ft AMSL. The groundwater surface exhibits a cone of depression, with groundwater flowing inward towards the DPE recovery wells and the GWCT. This cone of depression is centered at MW-4, which is located at the western property boundary. The combined DPE remediation system continues to induce groundwater flow reversal along the western property boundary, which serves to mitigate further off-site migration of VOCs in the perched water-bearing unit.
6. Cis-1,2-DCE, 1,1-DCA, VC, TCE, and chloroethane were the most frequently detected VOCs in groundwater. For the April 2014 comprehensive groundwater sampling event, the highest concentrations of VOCs were detected west of the GWCT and the former source area soil excavation.
7. The presence and distribution of TCE daughter products (cis-1,2-DCE, VC, chloroethane) and 1,1,1-TCA daughter products (1,1,-DCA and chloroethane) continued to provide supportive evidence that the attenuation of TCE and 1,1,1-TCA via reductive dechlorination is occurring naturally at the Site.
8. TCE concentrations decreased in five wells since the last comprehensive groundwater sampling event conducted at the Site in April 2013. The percent reduction in TCE concentrations in groundwater was 74%, from 57 ppb to non-detect at <25 ppb, 43%, 20% and from 0.99 ppb to non-detect at <1 ppb at MW-16S, MW-16D, MW-13D, MW-13S, and MW-14D, respectively.
9. The groundwater analytical data and groundwater elevation data indicate the DPE and GWCT continue to maintain hydraulic control of shallow and deep groundwater, eliminating potential off-site migration of VOCs along the western property boundary.

5.2 Recommendations

Based on information gathered during the current reporting period, the following recommendations are proposed for the site:

1. While running, the DPE recovery well network will continue to target both shallow and deep water-bearing unit VOC contamination. This will be done by continuing to have shallow water-bearing unit DPE wells (DPE-1, DPE-3, and DPE-5) and deep water-bearing unit groundwater DPE recovery wells (DPE-2 and DPE-7) remain on. DPE-4 (screened across the shallow and deep perched water-bearing units) will also remain on. DPE-6, which is located approximately 30 feet east of the GWCT in the former soil excavation area, will be kept off-line. In addition, DPE-8 transfer piping is fouled with calcium hydroxide (lime) buildup and is off-line.
2. Active DPE wells will be sampled for VOCs in an effort to optimize the collection system.
3. The manifold and individual recovery wells (DPE-1 and DPE-5 in particular) for the DPE system continue to become fouled with calcium hydroxide (lime) buildup that is the result of previous soil remediation activities using quick lime. Prior to the April 2015 groundwater sampling event, the DPE portion of the combined remediation system will be shut down temporarily to clean and/or replace the manifold as necessary. Also, with NYSDEC approval, DPE-1 and DPE-5 will be re-developed (flushed with acid) to remove excessive lime buildup within the wells and within the associated conveyance piping.
4. Sporadic sheens of LNAPL have been observed in MW-4, MW-8R, MW-13S, and MW-16S over past reporting periods, although LNAPL has not been observed during the current reporting period. LNAPL may contribute to higher concentrations of TCE being detected in these wells. As such, oil absorbent booms will continue to be placed in these wells between future groundwater sampling events, as needed, to collect any LNAPL present. Used absorbent booms will be disposed as part of semi-annual disposal activities.
5. During the next reporting period, AECOM personnel will continue to perform O&M activities at the Site. **Table 9** presents the weekly, monthly, quarterly, and annual O&M schedule.
6. Targeted quarterly groundwater sampling events as well as one comprehensive groundwater sampling event will occur during the next reporting period, based on the proposed monitoring and compliance sampling schedule presented in Section 5.3 of this report.

5.3 Proposed Monitoring and Compliance Sampling Schedule

The proposed schedule for groundwater sampling at the Site during the next reporting period is presented in **Table 10**. As shown in **Table 10**, six perimeter wells and four suspected source area wells (MW-4, MW-8R, MW-16S, and MW-13S) will be sampled during the targeted quarterly events (July 2014, October 2014, and January 2015). To minimize redundancy (the four source area wells are located within approximately 30 feet of each other), only two source area wells will be sampled per quarter. Sampling will rotate between MW-4 and MW-16S, and MW-8R and MW-13S each quarter. The comprehensive groundwater monitoring event scheduled for April 2015 will include all 17 Site monitoring wells and nested piezometers.

Prior to the collection of groundwater samples, a complete round of water level measurements will be collected. Groundwater samples will be analyzed for VOCs using USEPA SW-846 Method 8260B. Quality assurance/quality control samples will include rinsate blanks, trip blanks, and blind duplicate samples. Laboratory batch quality control will be included with the completed data package.

Quarterly air samples from the AS unit and LRP vapor effluent sampling ports will be collected to ensure compliance with the NYSDEC exhaust mass-loading rate guidance of 0.5 lb/hr of VOCs. Quarterly vapor effluent air samples will be collected from the LRP to determine the mass of VOCs removed by the DPE system as a vapor. The samples will be analyzed for VOCs utilizing USEPA Method TO-15.

In addition, quarterly samples from the AS unit effluent discharge to the sanitary sewer will be collected as specified in the current BSA discharge permit, and AS unit influent samples will be collected to determine the treatment efficiency of the AS unit. These samples will be analyzed for VOCs, TEH, TSS, and pH as specified in the current permit. **Table 11** provides a summary of the proposed monitoring and compliance sampling activities during the next reporting period. In the event that any effluent permit monitoring requirements change, notification of these changes will be given to the NYSDEC in a future quarterly groundwater monitoring summary report.

The next PRR (tenth comprehensive report since DPE system startup in May 2004) for the combined DPE remediation system will be prepared following the receipt of laboratory analytical results for the April 2015 comprehensive groundwater sampling event and will cover the period of April 2014 through April 2015.

6.0 Evaluate Remedy Performance, Effectiveness, and Protectiveness

6.1 Institutional Controls and Engineering Controls Certification

As a component of the PRR requirement, **Appendix F** includes the completed Institutional Controls and Engineering Controls certification.

7.0 References

AECOM. February 2014. "First Quarter 2014 Groundwater Monitoring Report, January 2014 Sampling Event, Former Scott Aviation Facility, Lancaster, New York, NYSDEC Site Code No. 9-15-149".

AECOM. November 2013. "Fourth Quarter 2013 Groundwater Monitoring Report, October 2013 Sampling Event, Former Scott Aviation Facility, Lancaster, New York, NYSDEC Site Code No. 9-15-149".

AECOM. August 2013. "Third Quarter 2013 Groundwater Monitoring Report, July 2013 Sampling Event, Former Scott Aviation Facility, Lancaster, New York, NYSDEC Site Code No. 9-15-149".

AECOM. May 2013. "2013 Periodic Review Report, April 2013 Sampling Event, Former Scott Aviation Facility, Lancaster, New York, NYSDEC Site Code No. 9-15-149".

Earth Tech. November 2005. "Remedial Action Engineering Report (May 14, 2004 through July 19, 2005), Former Scott Aviation Site, Lancaster, New York".

Earth Tech. April 2004. "Phase I Environmental Site Assessment and Modified Compliance Assessment, Tyco/Scott Aviation Facility, Lancaster, New York."

Earth Tech. November 2003. "Remedial Design Work Plan, Scott Aviation, Inc., Lancaster, New York".

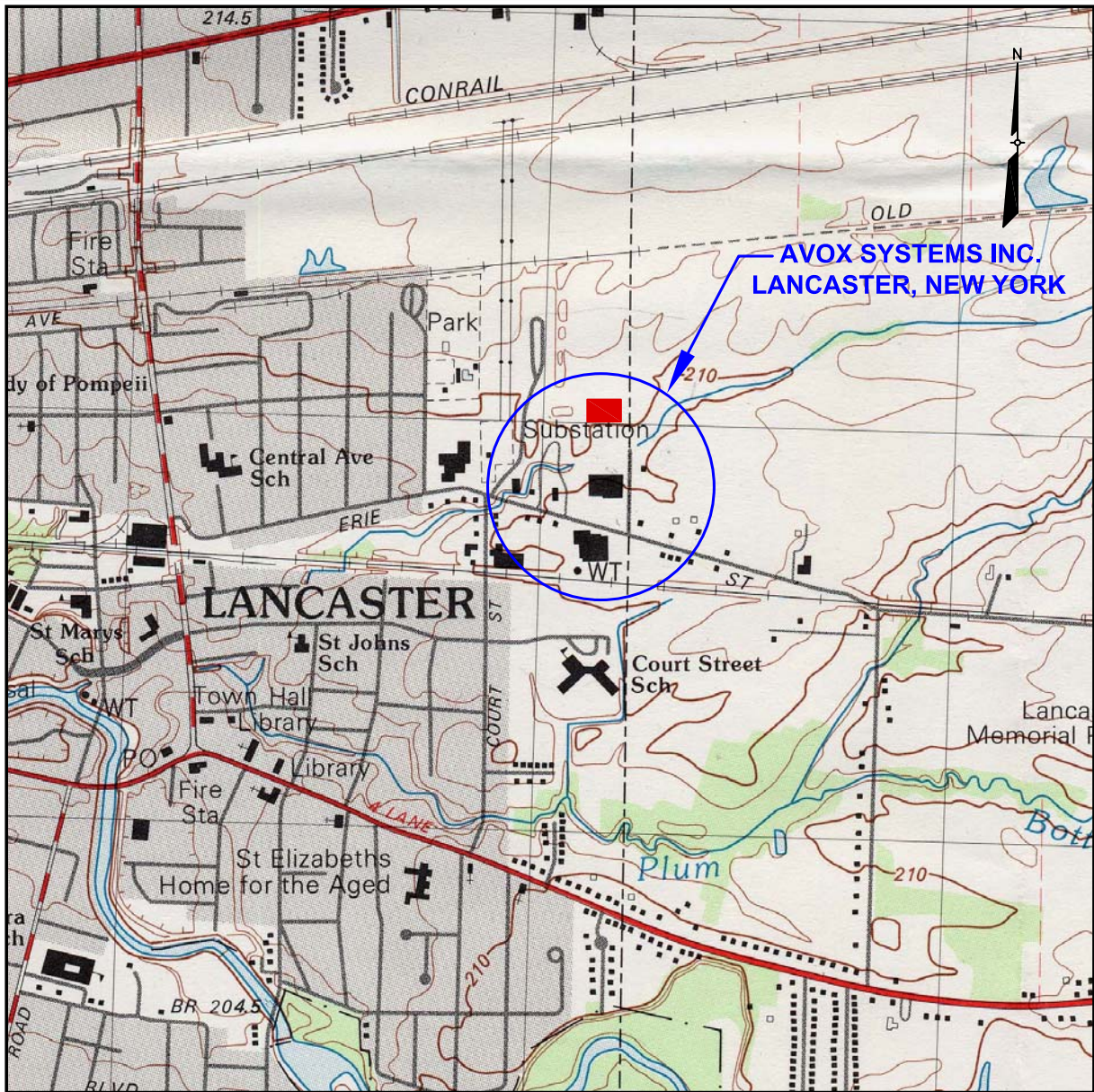
Earth Tech. June 2003. "Site Investigation Completion Report, Scott Aviation, Inc., Lancaster, New York".

NYSDEC. May 2010. "New York State Department of Environmental Conservation, Division of Environmental Remediation, DER-10 Technical Guidance for Site Investigation and Remediation".

NYSDEC, Division of Hazardous Waste Remediation. November 1994. "Record of Decision, Scott Aviation Site, Village of Lancaster, Erie County, I.D. Number 9-15-149".

O'Brien & Gere Engineers, Inc. July 1996. "Soil and Ground Water Remediation Project, Scott Aviation, Lancaster, New York".

Figures



SOURCE:
1982 GEOLOGIC SURVEY 7.5 X 15 MINUTE TOPOGRAPHIC QUADRANGLE
LANCASTER, NEW YORK

LEGEND

■ AVOX PLANT 3 ADDED AFTER PUBLICATION OF LANCASTER, NEW YORK
TOPOGRAPHIC QUADRANGLE.

0 1000 2000
SCALE IN FEET

AECOM

**FIGURE 1
SITE LOCATION MAP**

FORMER SCOTT AVIATION FACILITY AREA 1
LANCASTER, NEW YORK

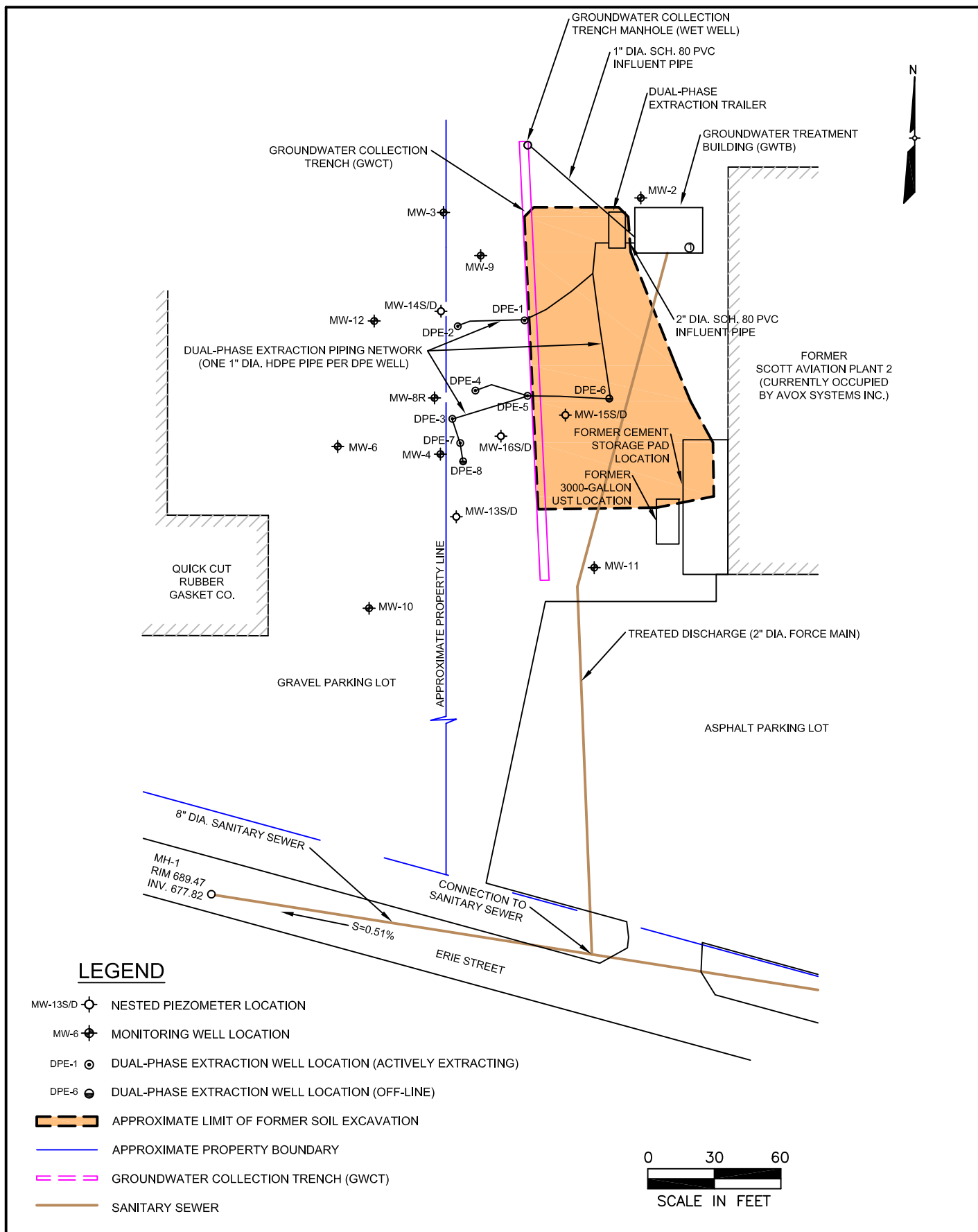


FIGURE 2
SITE FEATURES MAP

FORMER SCOTT AVIATION FACILITY
LANCASTER, NEW YORK

1" HDPE PIPE
TO DPE SYSTEM

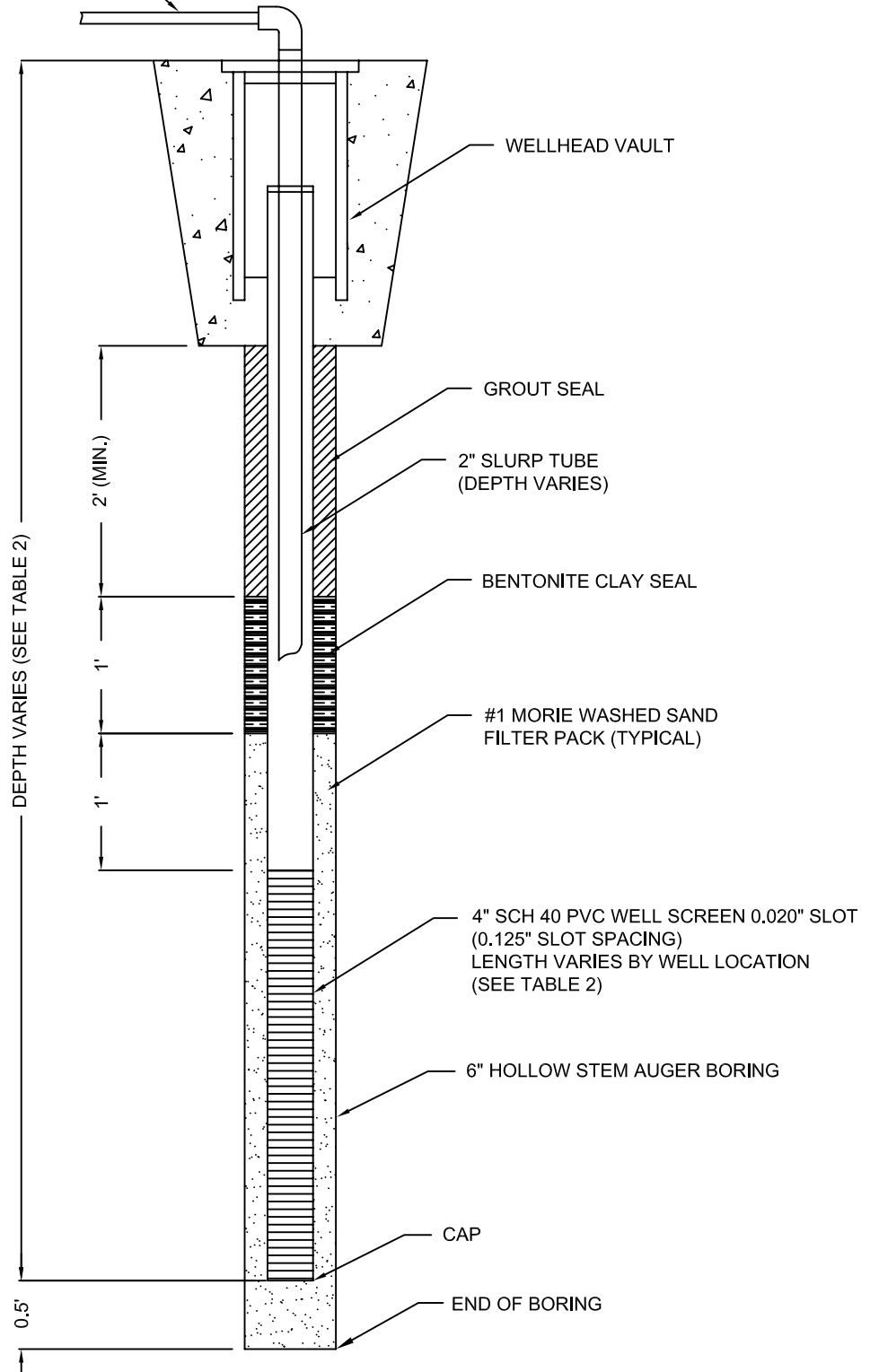


FIGURE 3
TYPICAL DUAL PHASE EXTRACTION RECOVERY
WELL CONSTRUCTION DIAGRAM

FORMER SCOTT AVIATION FACILITY
LANCASTER, NEW YORK

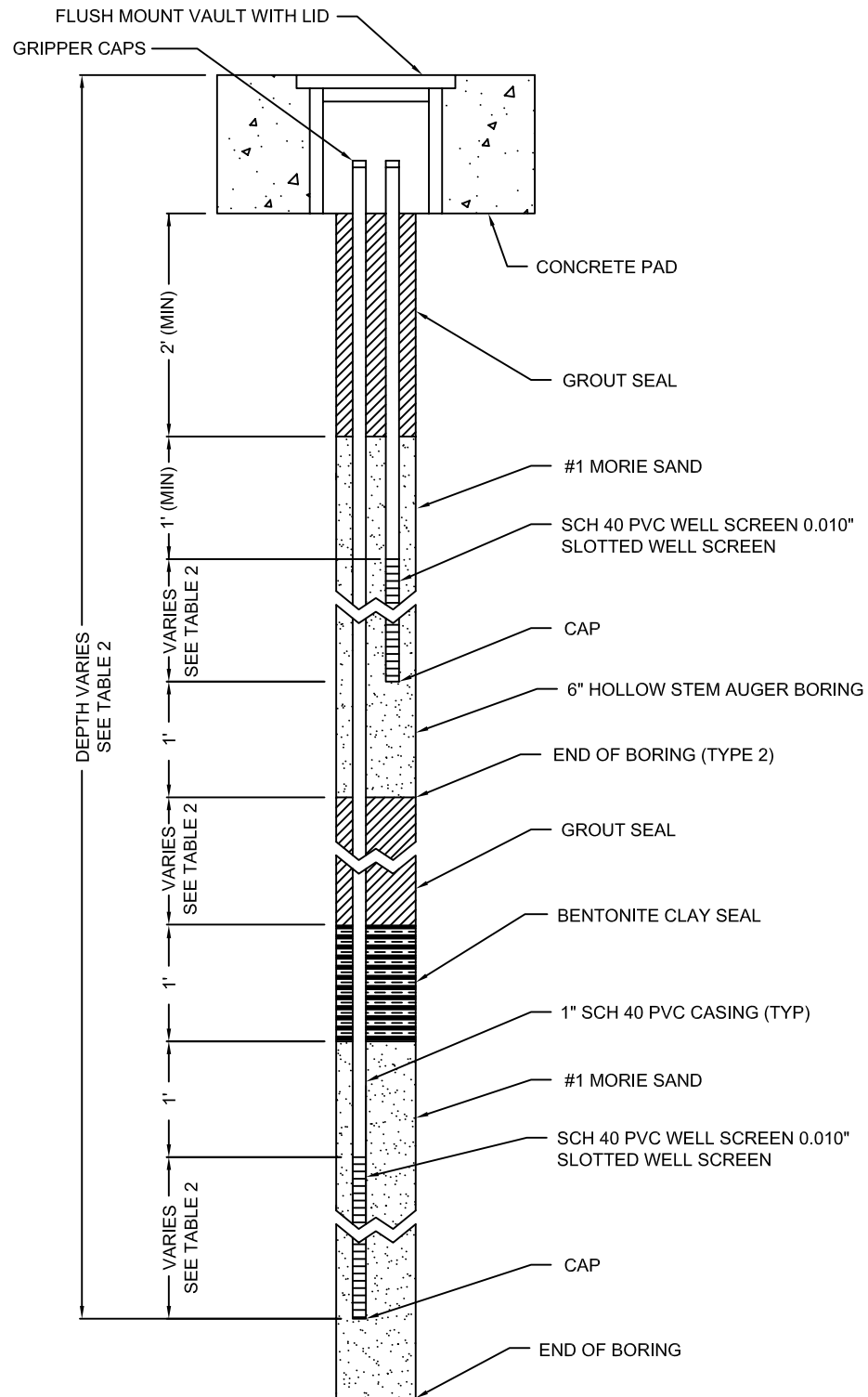


FIGURE 4
TYPICAL NESTED PIEZOMETER
CONSTRUCTION DIAGRAM

FORMER SCOTT AVIATION FACILITY
 LANCASTER, NEW YORK

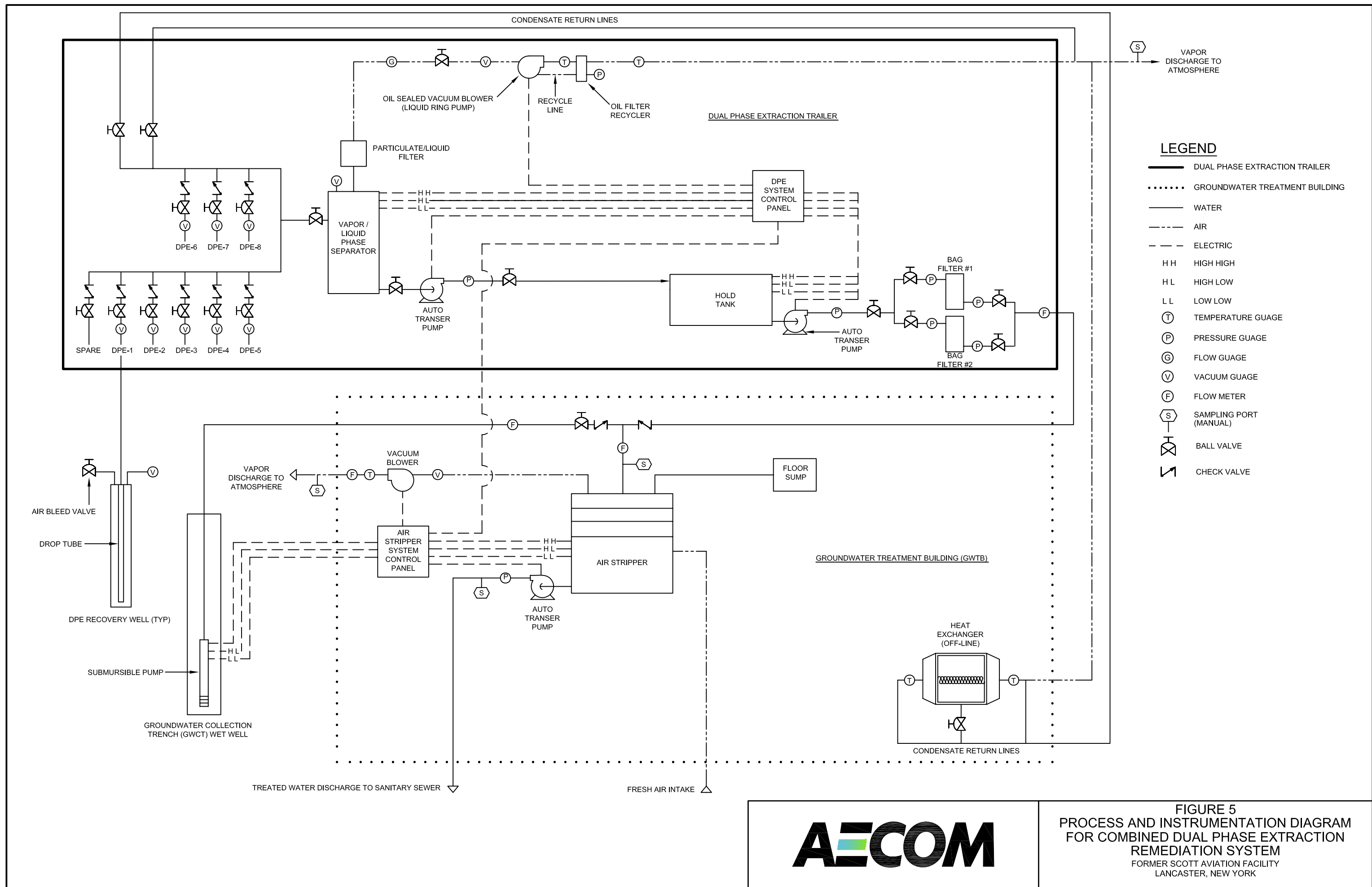
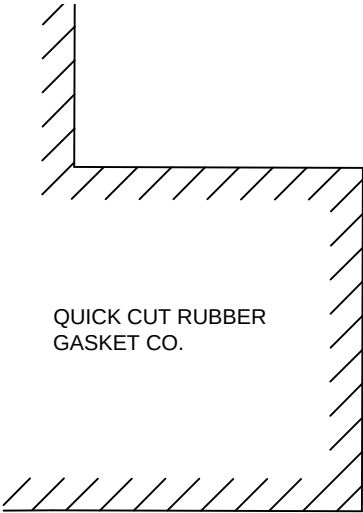


FIGURE 5
PROCESS AND INSTRUMENTATION DIAGRAM
FOR COMBINED DUAL PHASE EXTRACTION
REMEDATION SYSTEM
FORMER SCOTT AVIATION FACILITY
LANCASTER, NEW YORK

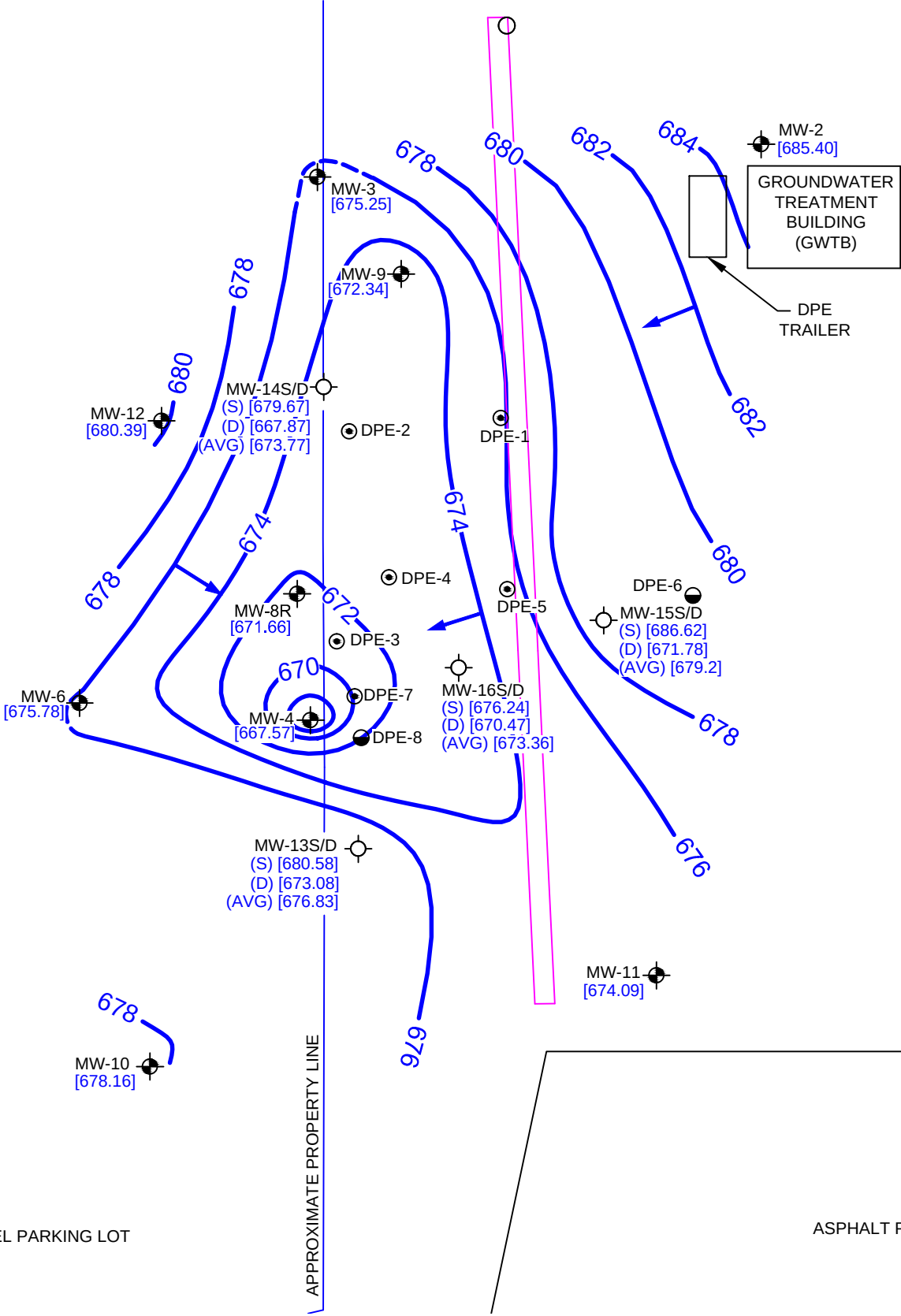
Quarterly Groundwater Monitoring Water Level Data - April 7, 2014
Former Scott Aviation Facility
NYSDEC Site Code No. 9-15-149
Lancaster, New York

Monitoring Point Identification	Top of Casing Elevation (feet AMSL)	Depth to Water (feet from TOC)	Ground Water Elevation (feet AMSL)
Monitoring Wells			
MW-2	690.35	4.95	685.40
MW-3	687.02	11.77	675.25
MW-4	686.42	18.85	667.57
MW-6	686.53	10.75	675.78
MW-8R	686.21	14.55	671.66
MW-9	688.64	16.30	672.34
MW-10	687.41	9.25	678.16
MW-11	688.65	14.56	674.09
MW-12	686.15	5.76	680.39
Nested Piezometers			
MW-13S	686.60	6.02	680.58
MW-13D	686.73	13.65	673.08
MW-14S	685.70	6.03	679.67
MW-14D	685.82	17.95	667.87
MW-15S	687.52	0.90	686.62
MW-15D	687.62	15.84	671.78
MW-16S	685.84	9.60	676.24
MW-16D	686.01	15.54	670.47

Notes:
TOC - Top of Casing
AMSL - Above Mean Sea Level
NA - Not available



GRAVEL PARKING LOT



FORMER
SCOTT
AVIATION
PLANT 2

ASPHALT PARKING LOT

LEGEND

- MW-13S/D NESTED PIEZOMETER LOCATION
- MW-9 MONITORING WELL LOCATION
- DPE-1 DUAL-PHASE EXTRACTION WELL LOCATION (ACTIVELY EXTRACTING)
- DPE-6 DUAL-PHASE EXTRACTION WELL LOCATION (OFF-LINE)
- [672.34] GROUNDWATER SURFACE ELEVATION IN FEET MSL
- 674 ESTIMATED GROUNDWATER SURFACE CONTOUR IN FEET MSL
- GROUNDWATER FLOW DIRECTION
- (S) SHALLOW PIEZOMETER
- (D) DEEP PIEZOMETER
- GROUNDWATER COLLECTION TRENCH (GWCT)
- APPROXIMATE PROPERTY BOUNDARY

NOTES

- GROUNDWATER ELEVATIONS WERE AVERAGED AT SHALLOW AND DEEP PIEZOMETER PAIR LOCATIONS (e.g. MW-15S/D) TO COMPARE TO ELEVATIONS MEASURED IN WELLS SCREENED ACROSS THE ENTIRE OVERBURDEN THICKNESS.
- GROUNDWATER WATER LEVELS WERE COLLECTED ON APRIL 7, 2014.

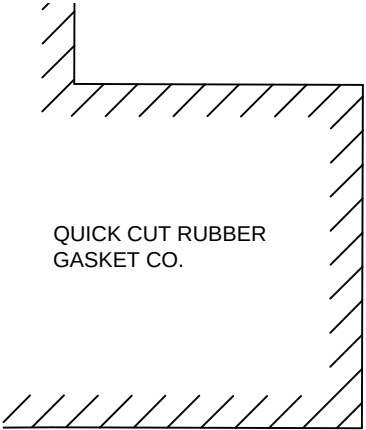


FIGURE 6
GROUNDWATER SURFACE CONTOUR MAP
APRIL 2014
AVERAGE OVERBURDEN GROUNDWATER ELEVATIONS
FORMER SCOTT AVIATION FACILITY
LANCASTER, NEW YORK

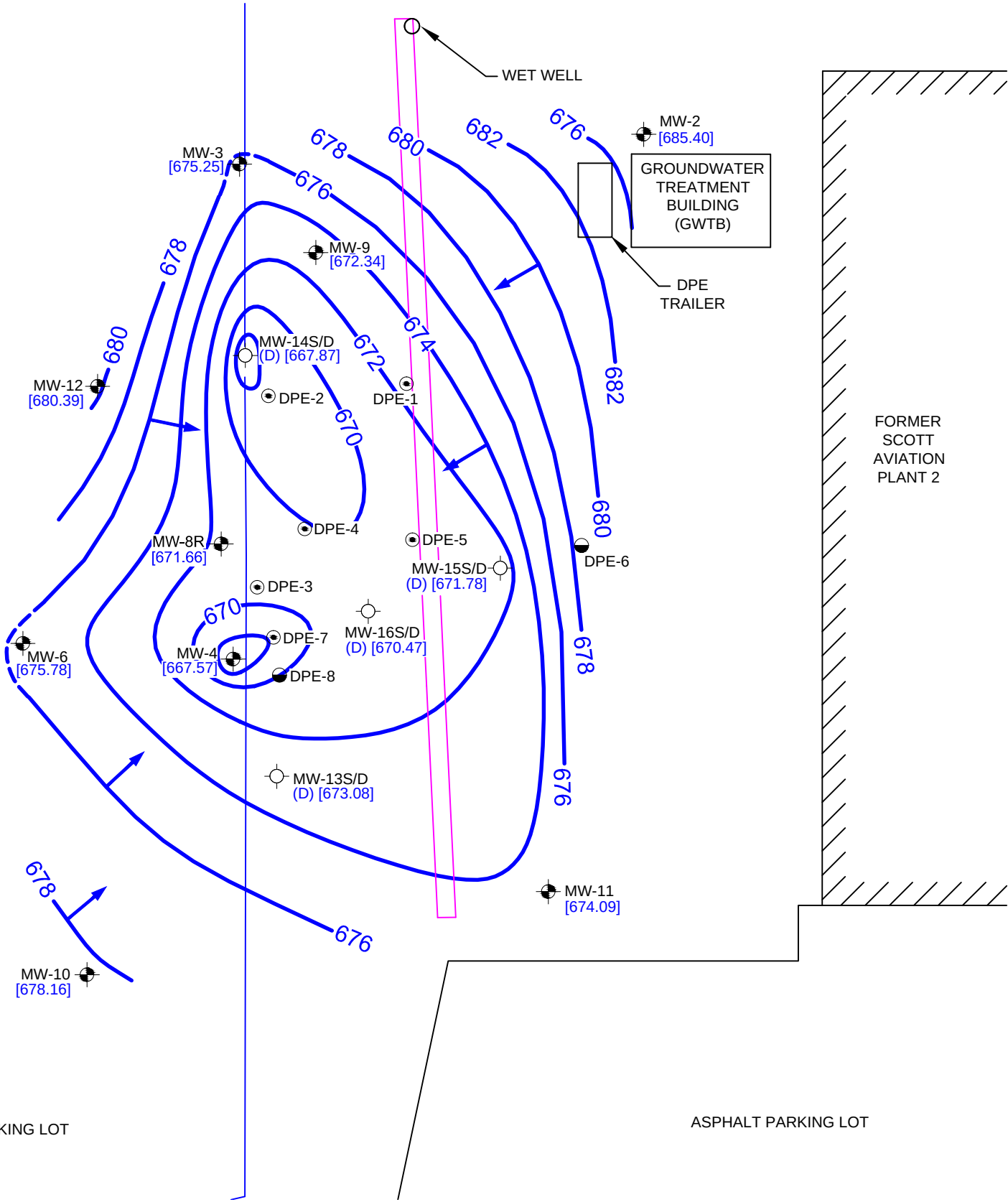
Quarterly Groundwater Monitoring Water Level Data - April 7, 2014
Former Scott Aviation Facility
NYSDEC Site Code No. 9-15-149
Lancaster, New York

Monitoring Point Identification	Top of Casing Elevation (feet AMSL)	Depth to Water (feet from TOC)	Ground Water Elevation (feet AMSL)
Monitoring Wells			
MW-2	690.35	4.95	685.40
MW-3	687.02	11.77	675.25
MW-4	686.42	18.85	667.57
MW-6	686.53	10.75	675.78
MW-8R	686.21	14.55	671.66
MW-9	688.64	16.30	672.34
MW-10	687.41	9.25	678.16
MW-11	688.65	14.56	674.09
MW-12	686.15	5.76	680.39
Nested Piezometers			
MW-13S	686.60	6.02	680.58
MW-13D	686.73	13.65	673.08
MW-14S	685.70	6.03	679.67
MW-14D	685.82	17.95	667.87
MW-15S	687.52	0.90	686.62
MW-15D	687.62	15.84	671.78
MW-16S	685.84	9.60	676.24
MW-16D	686.01	15.54	670.47

Notes:
TOC - Top of Casing
AMSL - Above Mean Sea Level
NA - Not available



GRAVEL PARKING LOT



LEGEND

MW-13S/D

NESTED PIEZOMETER LOCATION

MW-9

MONITORING WELL LOCATION

DPE-1

DUAL-PHASE EXTRACTION WELL LOCATION (ACTIVELY EXTRACTING)

DPE-6

DUAL-PHASE EXTRACTION WELL LOCATION (OFF-LINE)

[667.57]

GROUNDWATER SURFACE ELEVATION IN FEET MSL

670

ESTIMATED GROUNDWATER SURFACE CONTOUR IN FEET MSL

GROUND WATER FLOW DIRECTION

(D)

DEEP PIEZOMETER

GROUNDWATER COLLECTION TRENCH (GWCT)

APPROXIMATE PROPERTY BOUNDARY

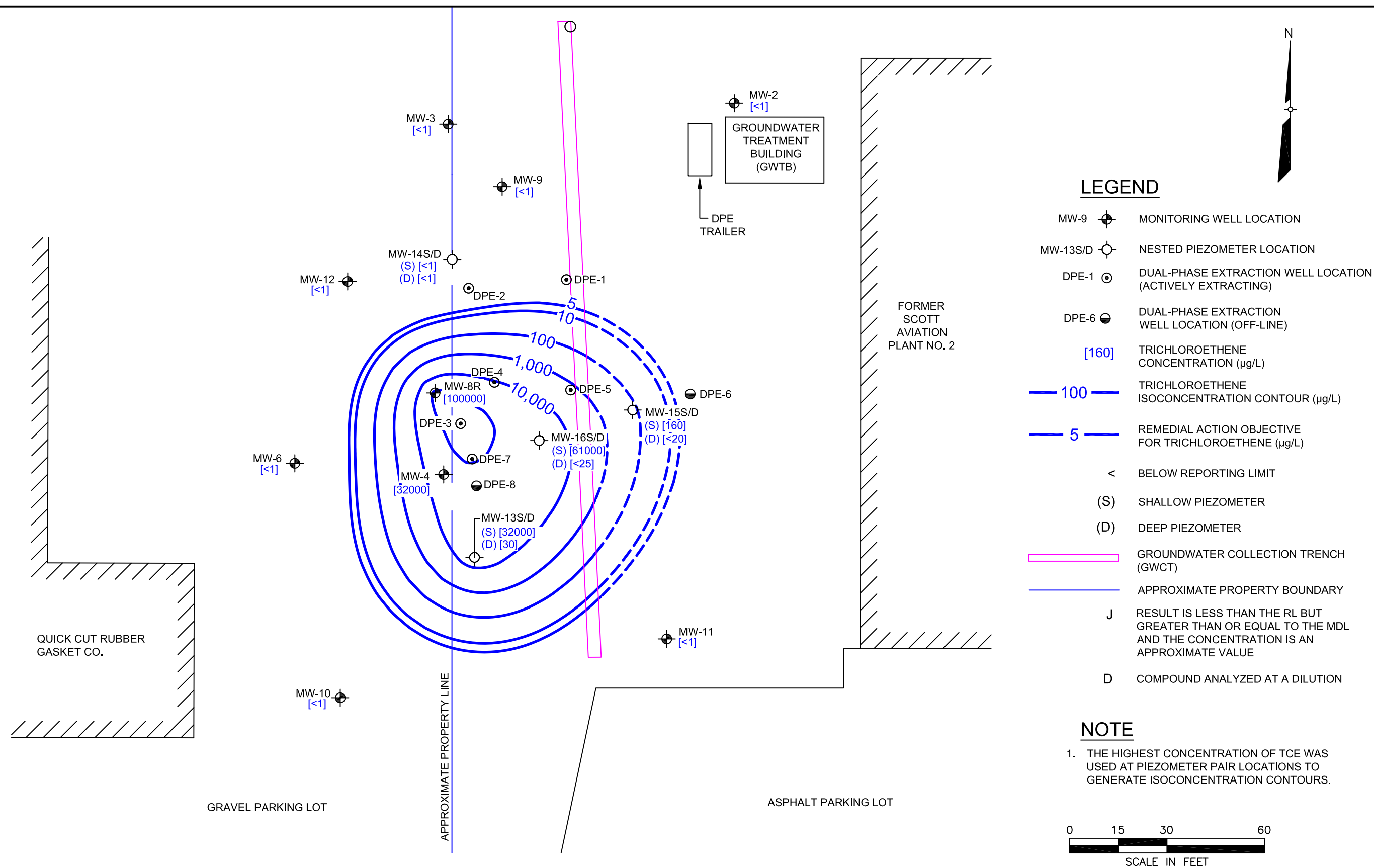
- NOTES
1.

GROUNDWATER ELEVATIONS FROM THE DEEP PIEZOMETER PAIR LOCATIONS (i.e. MW-13D, MW-14D, MW-15D, MW-16D) WERE USED TO CREATE THE GROUNDWATER SURFACE CONTOURS.
2.

GROUNDWATER WATER LEVELS WERE COLLECTED ON APRIL 7, 2014.



FIGURE 7
GROUNDWATER SURFACE CONTOUR MAP
APRIL 2014
DEEP OVERBURDEN GROUNDWATER ELEVATIONS
FORMER SCOTT AVIATION FACILITY
LANCASTER, NEW YORK



AECOM

FIGURE 8
TRICHLOROETHENE ISOCONCENTRATION
CONTOUR MAP
APRIL 2014
FORMER SCOTT AVIATION FACILITY
LANCASTER, NEW YORK

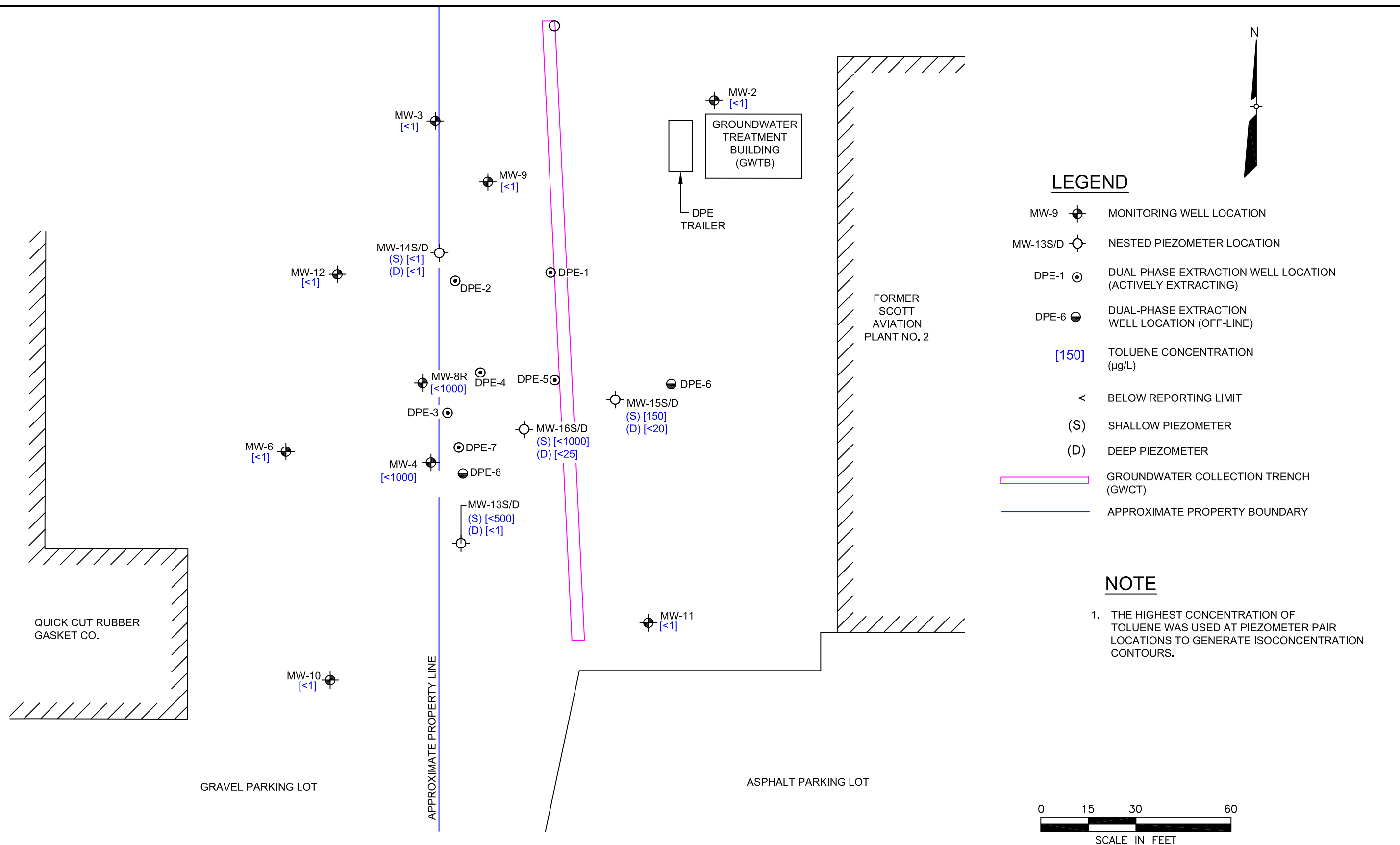
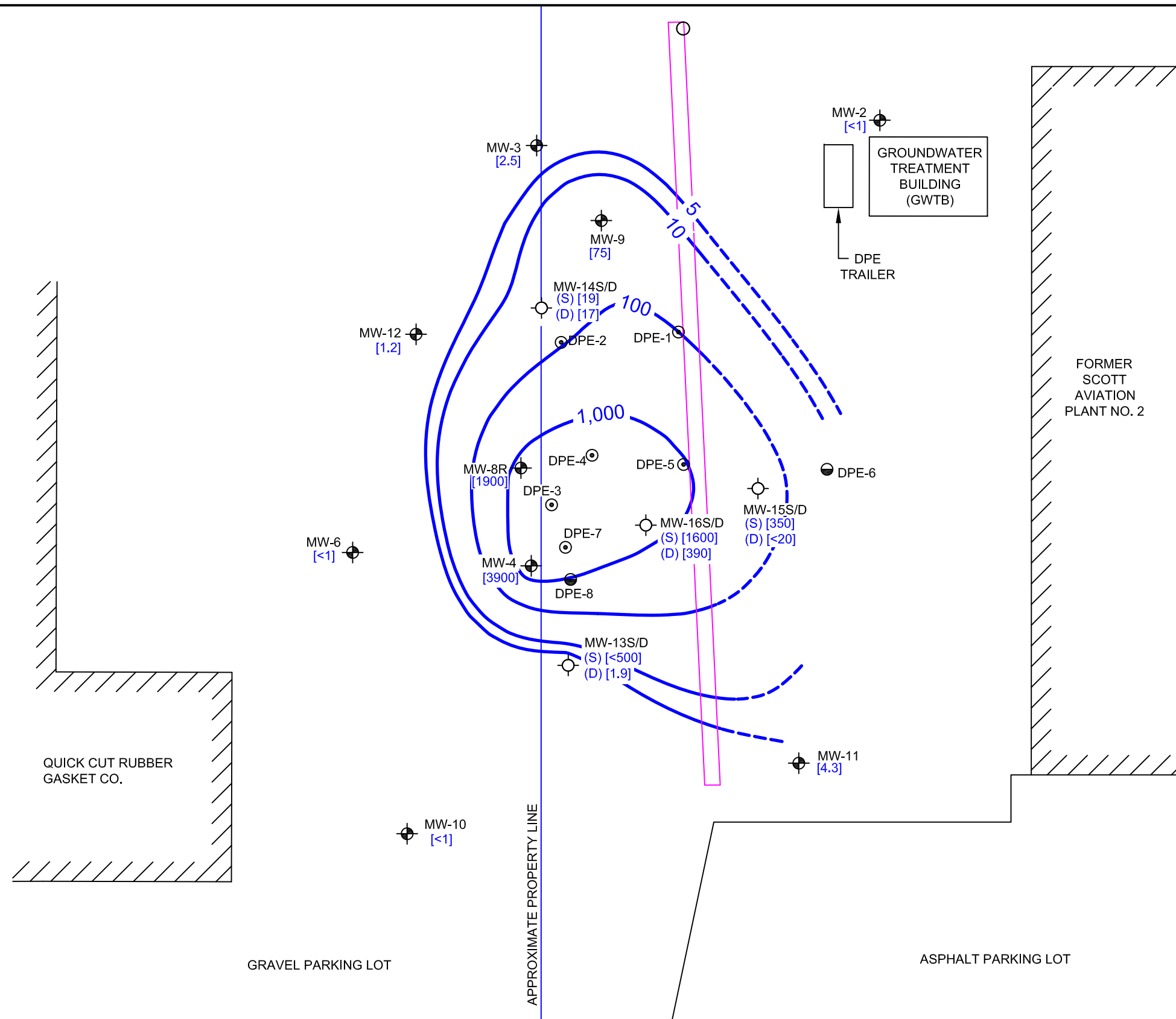


FIGURE 9
TOLUENE ISOCONCENTRATION
CONTOUR MAP
APRIL 2014
FORMER SCOTT AVIATION FACILITY
LANCASTER, NEW YORK

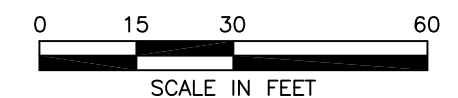


LEGEND

- MW-9 MONITORING WELL LOCATION
- MW-13S/D NESTED PIEZOMETER LOCATION
- DPE-1 DUAL-PHASE EXTRACTION WELL LOCATION (ACTIVELY EXTRACTING)
- DPE-6 DUAL-PHASE EXTRACTION WELL LOCATION (OFF-LINE)
- [19] VINYL CHLORIDE CONCENTRATION ($\mu\text{g/L}$)
- 10 VINYL CHLORIDE ISOCONCENTRATION CONTOUR ($\mu\text{g/L}$) (DASHED WHERE INFERRED)
- 5 REMEDIAL ACTION OBJECTIVE FOR VINYL CHLORIDE ($\mu\text{g/L}$)
- < BELOW REPORTING LIMIT
- (S) SHALLOW PIEZOMETER
- (D) DEEP PIEZOMETER
- GROUNDWATER COLLECTION TRENCH (GWCT)
- APPROXIMATE PROPERTY BOUNDARY
- J RESULT IS LESS THAN THE RL BUT GREATER THAN OR EQUAL TO THE MDL AND THE CONCENTRATION IS AN APPROXIMATE VALUE
- D COMPOUND ANALYZED AT A DILUTION

NOTE

- THE HIGHEST CONCENTRATION OF VINYL CHLORIDE WAS USED AT PIEZOMETER PAIR LOCATIONS TO GENERATE ISOCONCENTRATION CONTOURS.



AECOM

FIGURE 10
VINYL CHLORIDE ISOCONCENTRATION
CONTOUR MAP
APRIL 2014
FORMER SCOTT AVIATION FACILITY
LANCASTER, NEW YORK

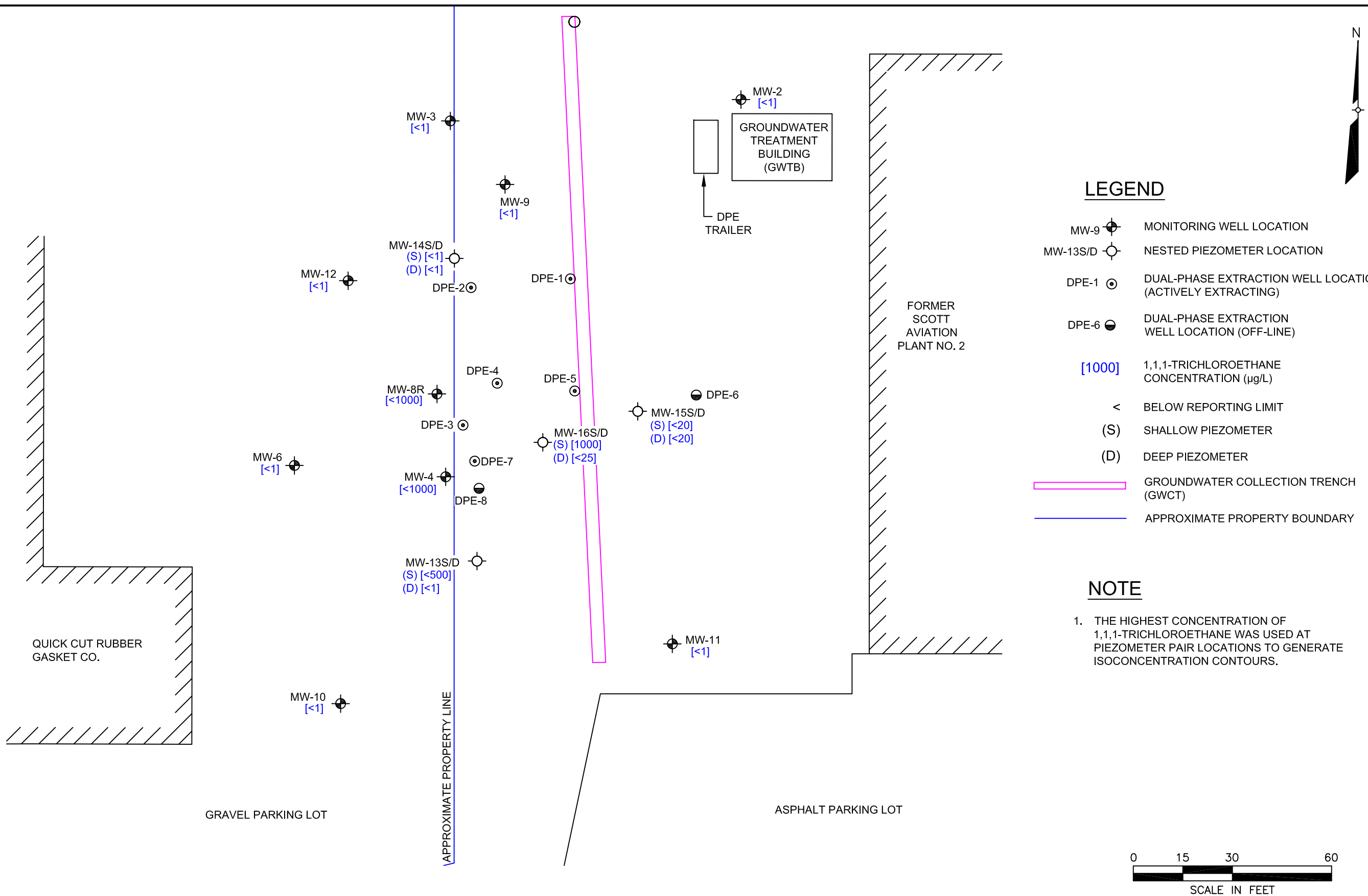


FIGURE 11
1,1,1-TRICHLOROETHANE ISOCONCENTRATION
CONTOUR MAP
APRIL 2014
FORMER SCOTT AVIATION FACILITY
LANCASTER, NEW YORK

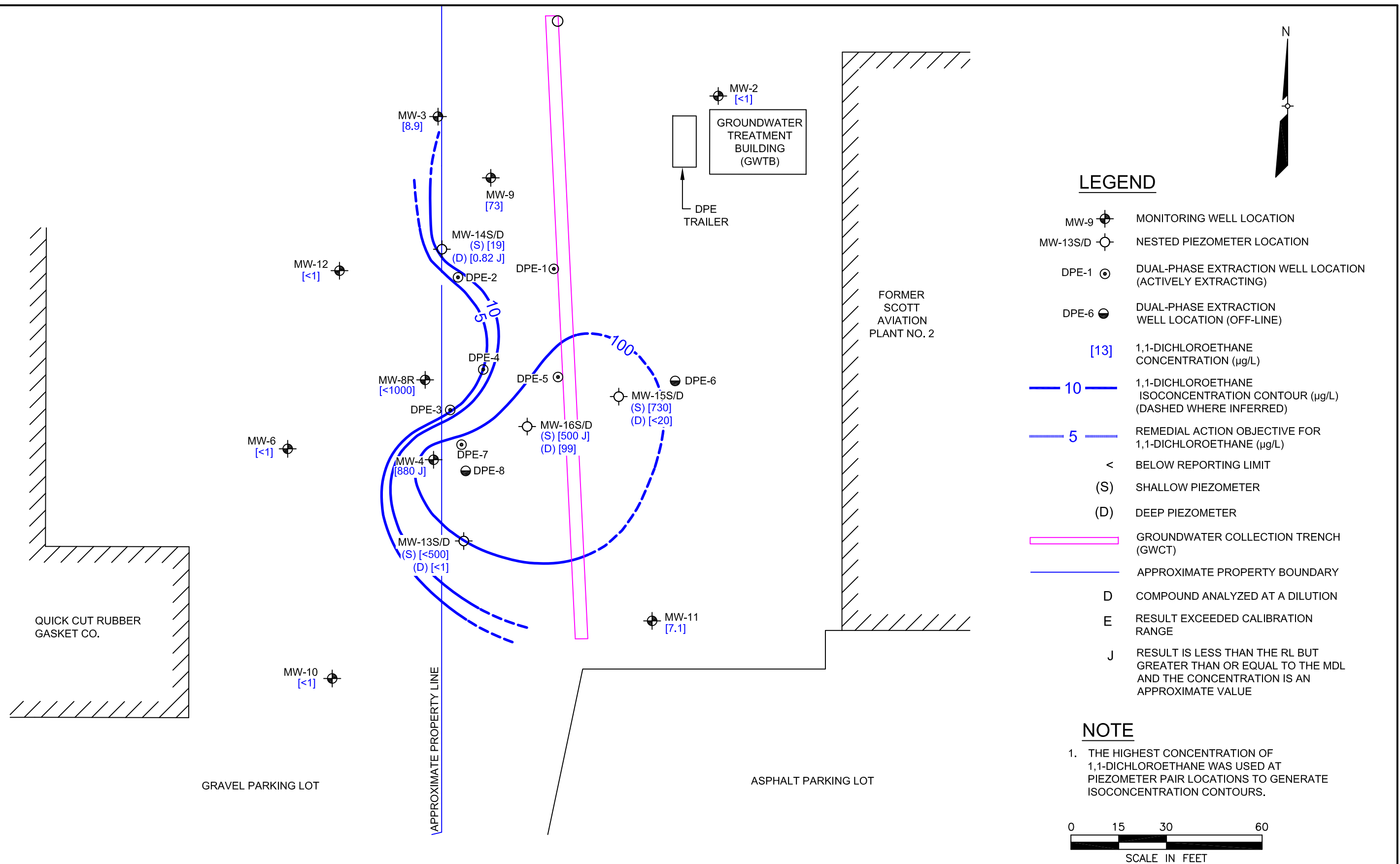
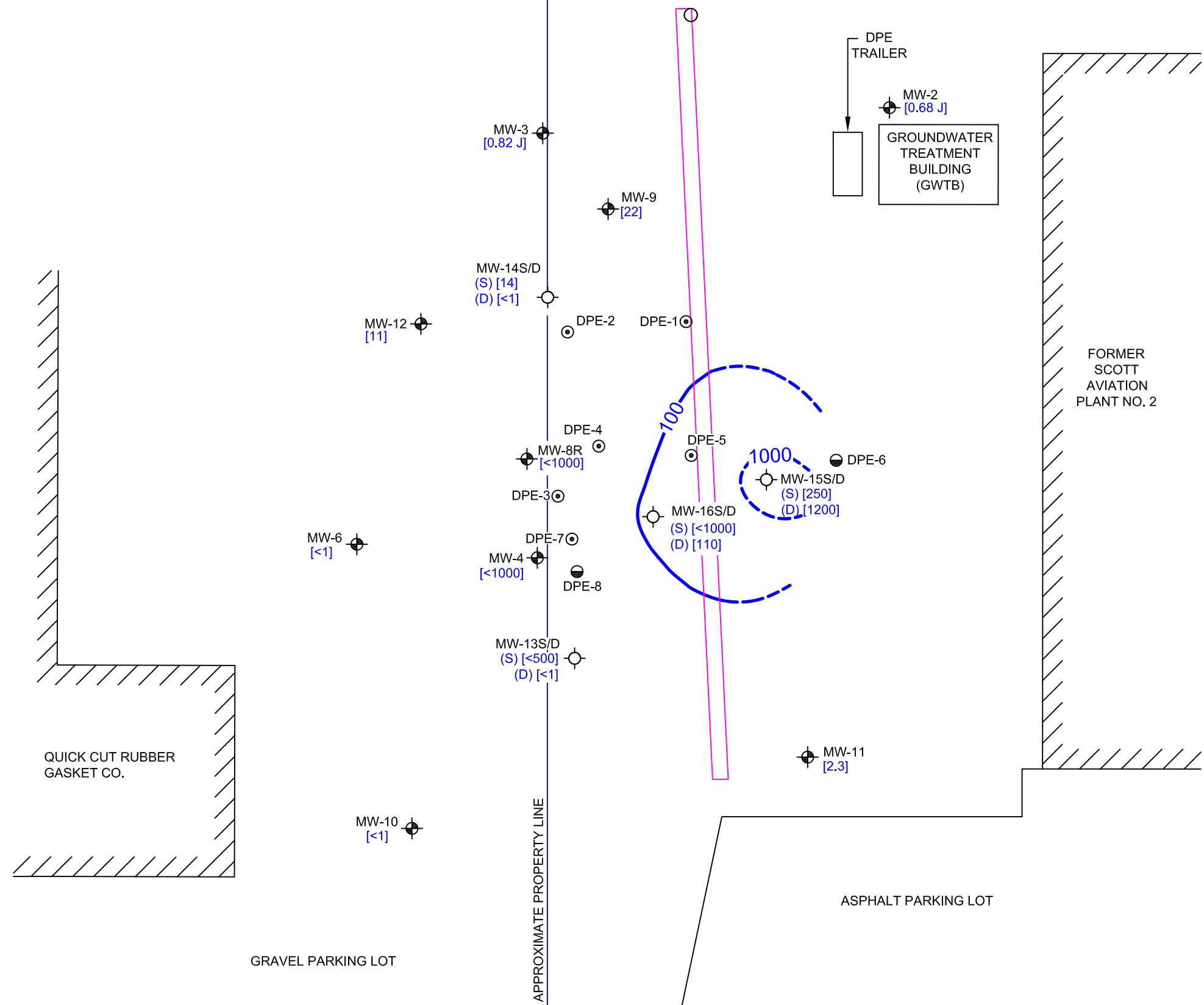


FIGURE 12
1,1-DICHLOROETHANE ISOCONCENTRATION
CONTOUR MAP
APRIL 2014
FORMER SCOTT AVIATION FACILITY
LANCASTER, NEW YORK

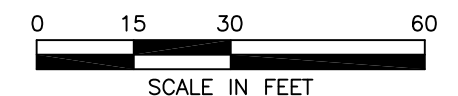


LEGEND

- MW-9 MONITORING WELL LOCATION
- MW-13S/D NESTED PIEZOMETER LOCATION
- DPE-1 DUAL-PHASE EXTRACTION WELL LOCATION (ACTIVELY EXTRACTING)
- DPE-6 DUAL-PHASE EXTRACTION WELL LOCATION (OFF-LINE)
- [14] CHLOROETHANE CONCENTRATION ($\mu\text{g/L}$)
- 100 — CHLOROETHANE ISOCONCENTRATION CONTOUR ($\mu\text{g/L}$) (DASHED WHERE INFERRED)
- < BELOW REPORTING LIMIT
- (S) SHALLOW PIEZOMETER
- (D) DEEP PIEZOMETER
- GROUNDWATER COLLECTION TRENCH (GWCT)
- APPROXIMATE PROPERTY BOUNDARY
- D COMPOUND ANALYZED AT A DILUTION
- E RESULT EXCEEDED CALIBRATION RANGE

NOTE

1. THE HIGHEST CONCENTRATION OF CHLOROETHANE WAS USED AT PIEZOMETER PAIR LOCATIONS TO GENERATE ISOCONCENTRATION CONTOURS.



AECOM

FIGURE 13
CHLOROETHANE ISOCONCENTRATION
CONTOUR MAP
APRIL 2014
FORMER SCOTT AVIATION FACILITY
LANCASTER, NEW YORK

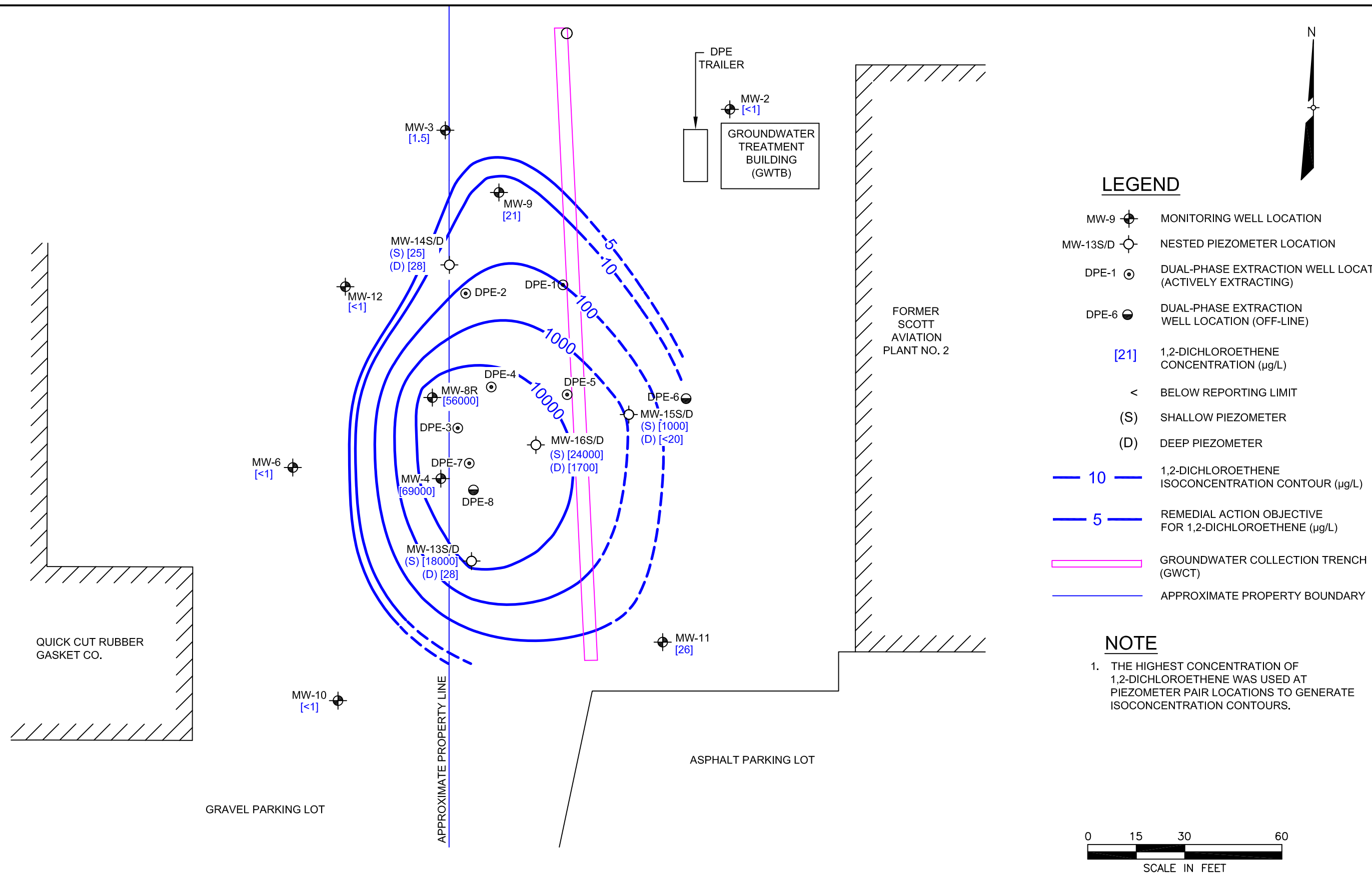
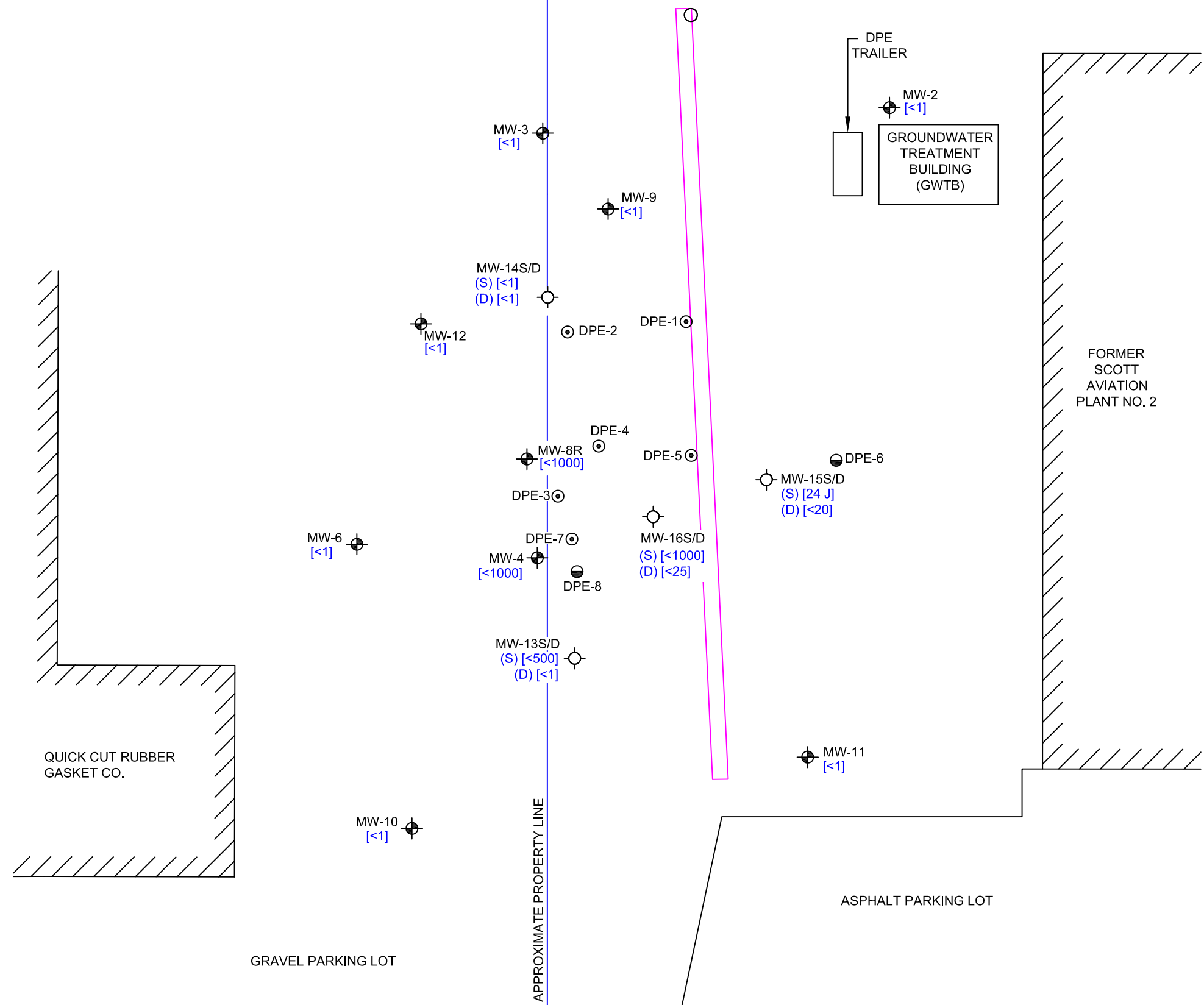


FIGURE 14
1,2-DICHLOROETHENE ISOCONCENTRATION
CONTOUR MAP
APRIL 2014
FORMER SCOTT AVIATION FACILITY
LANCASTER, NEW YORK



LEGEND

- MW-9 MONITORING WELL LOCATION
- MW-13S/D NESTED PIEZOMETER LOCATION
- DPE-1 DUAL-PHASE EXTRACTION WELL LOCATION (ACTIVELY EXTRACTING)
- DPE-6 DUAL-PHASE EXTRACTION WELL LOCATION (OFF-LINE)
- [24] XYLENES CONCENTRATION (µg/L)
- < BELOW REPORTING LIMIT
- (S) SHALLOW PIEZOMETER
- (D) DEEP PIEZOMETER
- GROUNDWATER COLLECTION TRENCH (GWCT)
- APPROXIMATE PROPERTY BOUNDARY
- J RESULT IS LESS THAN THE RL BUT GREATER THAN OR EQUAL TO THE MDL AND THE CONCENTRATION IS AN APPROXIMATE VALUE

NOTE

- THE HIGHEST CONCENTRATION OF XYLENES WAS USED AT PIEZOMETER PAIR LOCATIONS TO GENERATE ISOCONCENTRATION CONTOURS.

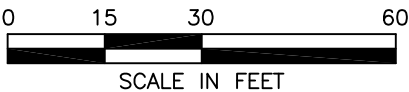
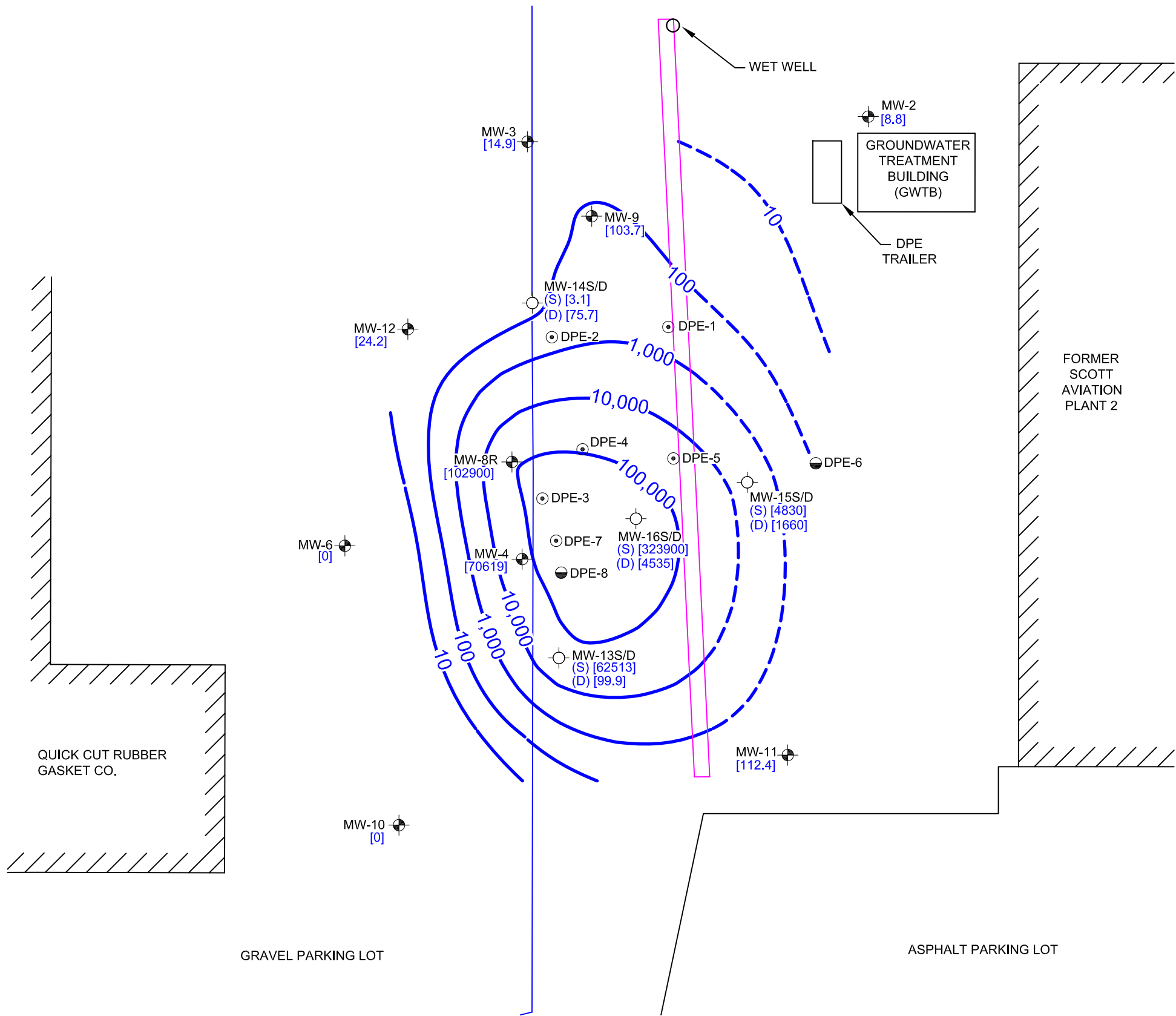


FIGURE 15
XYLENES ISOCONCENTRATION
CONTOUR MAP
APRIL 2014
FORMER SCOTT AVIATION FACILITY
LANCASTER, NEW YORK



LEGEND

MW-13S/D

NESTED PIEZOMETER LOCATION

MW-9

MONITORING WELL LOCATION

DPE-1

DUAL-PHASE EXTRACTION WELL LOCATION (ACTIVELY EXTRACTING)

DPE-6

DUAL-PHASE EXTRACTION WELL LOCATION (OFF-LINE)

[3.1]

TOTAL VOC CONCENTRATION (µg/L)

10

TOTAL VOC CONTOUR (DASHED WHERE INFERRED)

(S)

SHALLOW PIEZOMETER

(D)

DEEP PIEZOMETER

GROUNDWATER COLLECTION TRENCH (GWCT)

APPROXIMATE PROPERTY BOUNDARY

NOTE

1. TOTAL VOC FROM THE SHALLOW PIEZOMETER PAIR LOCATIONS (i.e. MW-13D, MW-14D, MW-15D, MW-16D) WERE USED TO CREATE THE TOTAL VOC CONTOURS.

FIGURE 16

TOTAL VOLATILE ORGANIC COMPOUNDS IN ISOCONCENTRATION CONTOUR MAP

APRIL 2014

FORMER SCOTT AVIATION FACILITY
LANCASTER, NEW YORK

Tables

Table 1

**Remedial Action Objectives
Former Scott Aviation Facility
NYSDEC Site Code No. 9-15-149
Lancaster, New York**

VOCs	Remedial Action Objectives*	
	Soil (mg/kg)	Groundwater (µg/L)
Chloroethane	1	5
1,1-Dichloroethane	1	5
1,2-Dichloroethene	1	5
1,1,1-Trichloroethane	1	5
Trichloroethene	1	5
Vinyl chloride	1	5
Ethylbenzene	1	5
Toluene	1	5
Xylenes	1	5
Total VOCs	10	NA

Notes:

mg/kg - milligrams per kilogram

µg/L - micrograms per liter

NA - not applicable

VOCs - volatile organic compounds

* Based on values presented in site-specific ROD (November 1994).

Table 2

**Monitoring Well, Nested Piezometer, Dual Phase Extraction Well, and Injection Well
Construction Specifications
Former Scott Aviation Facility
NYSDEC Site Code No. 9-15-149
Lancaster, New York**

Well ID	Date Installed	Well Diameter (inches)	Bottom of Boring (ft bgs)	Screen Length (feet)	Well Screen Interval (ft bgs)	Filter Sand Pack Interval (ft bgs)	Bentonite Seal Interval (ft bgs)
Monitoring Wells							
MW-1	(1)	NA	NA	NA	NA	NA	NA
MW-2	05/24/91	2.0	15.0	10	5.0 - 15.0	4.0 - 15.0	1.0 - 4.0
MW-3	05/19/91	2.0	26.0	15	11.0 - 26.0	9.0 - 26.0	5.0 - 9.0
MW-4	05/23/91	2.0	26.0	10	16.0 - 26.0	14.0 - 26.0	11.0 - 14.0
MW-5	(1)	NA	NA	NA	NA	NA	NA
MW-6	03/17/04	2.0	26.0	10	16.0 - 26.0	14.0 - 16.0	11.5 - 14.0
MW-7	(2)	NA	NA	NA	NA	NA	NA
MW-8R	02/17/04	2.0	28.0	10	14.0 - 24.0	13.0 - 24.5	12.0 - 13.0
MW-9	04/11/99	2.0	25.4	20	5.4 - 25.4	4.0 - 25.4	2.0 - 4.0
MW-10	04/11/99	2.0	24.4	20	4.4 - 24.4	3.0 - 4.4	1.0 - 3.0
MW-11	03/01/04	2.0	29.0	20	8.5 - 28.5	7.5 - 29.0	6.5 - 7.5
MW-12	03/17/04	2.0	27.5	20	7.0 - 27.0	6.0 - 27.5	5.0 - 6.0
Nested Piezometers							
MW-13S	03/03/04	1.0	24.0	8	8.5 - 16.5	7.5 - 17.0	6.5 - 7.5
MW-13D	03/03/04	1.0	24.0	4	19.5 - 23.5	19.0 - 24.0	17.0 - 19.0
MW-14S	03/04/05	1.0	24.0	8	8.5 - 16.5	7.5 - 16.75	6.5 - 7.5
MW-14D	03/04/05	1.0	24.0	5	18.5 - 23.5	18.25 - 24.0	16.75 - 18.25
MW-15S	03/02/05	1.0	28.0	6	12.0 - 18.0	11.0 - 12.0	10.0 - 11.0
MW-15D	03/02/05	1.0	28.0	4	21.0 - 25.0	20.5 - 28.0	18.5 - 20.5
MW-16S	03/03/05	1.0	24.0	6	12.0 - 18.0	11.0 - 18.25	10.0 - 11.0
MW-16D	03/03/05	1.0	24.0	4	20.0 - 24.0	19.75 - 24.0	18.25 - 19.75
Dual Phase Extraction Recovery Wells							
DPE-1	02/17/04	4.0	18.5	5	13.0 - 18.0	12.0 - 18.5	11.0 - 12.0
DPE-2	02/19/04	4.0	26.0	5	18.5 - 23.5	18.0 - 26.0	17.0 - 18.0
DPE-3	02/18/04	4.0	18.0	8	8.5 - 16.5	8.0 - 18.0	7.0 - 8.0
DPE-4	(3)	2.0	27.7	20	7.7 - 27.7	6.0 - 27.7	4.0 - 6.0
DPE-5	02/16/04	4.0	18.3	6	12.0 - 18.0	11.0 - 18.3	10.0 - 11.0
DPE-6	02/16/04	4.0	18.3	6	12.0 - 18.0	11.0 - 18.3	10.0 - 11.0
DPE-7	02/19/04	4.0	26.0	4	19.5 - 23.5	19.0 - 26.0	18.0 - 19.0
DPE-8	02/18/04	4.0	17.0	8	8.5 - 16.5	8.0 - 17.0	7.0 - 8.0
Injection Wells							
IW-01	06/09/10	2.0	18.0	5	13.0 - 18.0	11.0 - 18.0	8.0 - 11.0
IW-02	06/09/10	2.0	18.0	5	13.0 - 18.0	11.0 - 18.0	8.0 - 11.0
IW-03	06/10/10	2.0	18.0	5	13.0 - 18.0	11.0 - 18.0	8.0 - 11.0
IW-04	06/10/10	2.0	18.0	5	13.0 - 18.0	11.0 - 18.0	8.0 - 11.0
IW-05	06/10/10	2.0	18.0	5	13.0 - 18.0	11.0 - 18.0	8.0 - 11.0
IW-06	06/10/10	2.0	18.0	5	13.0 - 18.0	11.0 - 18.0	8.0 - 11.0
IW-07	06/10/10	2.0	18.0	5	13.0 - 18.0	11.0 - 18.0	8.0 - 11.0
IW-08	06/14/10	2.0	18.0	5	13.0 - 18.0	11.0 - 18.0	8.0 - 11.0
IW-09	06/14/10	2.0	18.0	5	13.0 - 18.0	11.0 - 18.0	8.0 - 11.0
IW-10	06/15/10	2.0	18.0	5	13.0 - 18.0	11.0 - 18.0	8.0 - 11.0

Notes:

ft bgs - feet below ground surface

MW-# - Monitoring Well

DPE-# - Dual Phase Extraction Recovery Well

(1) MW-1 and MW-5 are not monitored for this project.

(2) MW-7 was abandoned in November 2003 per Section 3.7 of the Remedial Design Work Plan.

(3) Pre-existing monitoring well MW-8 (installed 04/11/99) was converted to DPE-4 in February 2004.

NA - Information is not available.

Table 3

**Groundwater Monitoring Program - July 2013 through April 2014
Former Scott Aviation Facility
NYSDEC Site Code No. 9-15-149
Lancaster, New York**

Event Date	Number of Wells/Piezometers Sampled	Wells/Piezometers Sampled			
Quarterly Groundwater Monitoring					
July 2013	8	MW-2 MW-10	MW-3 MW-11	MW-4 MW-12	MW-6 MW-16S
October 2013	8	MW-2 MW-8R	MW-3 MW-10	MW-4 MW-11	MW-6 MW-12
January 2014	8	MW-2 MW-10	MW-3 MW-11	MW-4 MW-12	MW-6 MW-16S
Comprehensive Annual Groundwater Monitoring					
April 2014	17	MW-2 MW-8R MW-12 MW-14D MW-16D	MW-3 MW-9 MW-13S MW-15S	MW-4 MW-10 MW-13D MW-15D	MW-6 MW-11 MW-14S MW-16S

Table 4

**Quarterly Groundwater Level Data - April 7, 2014
Former Scott Aviation Facility
NYSDEC Site Code No. 9-15-149
Lancaster, New York**

Monitoring Point Identification	Top of Casing Elevation (feet AMSL)	Depth to Water (feet from TOC)	Ground Water Elevation (feet AMSL)
Monitoring Wells			
MW-2	690.35	4.95	685.40
MW-3	687.02	11.77	675.25
MW-4	686.42	18.85	667.57
MW-6	686.53	10.75	675.78
MW-8R	686.21	14.55	671.66
MW-9	688.64	16.30	672.34
MW-10	687.41	9.25	678.16
MW-11	688.65	14.56	674.09
MW-12	686.15	5.76	680.39
Nested Piezometers			
MW-13S	686.60	6.02	680.58
MW-13D	686.73	13.65	673.08
MW-14S	685.70	6.03	679.67
MW-14D	685.82	17.95	667.87
MW-15S	687.52	0.90	686.62
MW-15D	687.62	15.84	671.78
MW-16S	685.84	9.60	676.24
MW-16D	686.01	15.54	670.47

Notes:

TOC - Top of Inner Casing
 AMSL - Above Mean Sea Level
 NA - Not available

Table 5

**Summary of April 2014 Analytical Data
Former Scott Aviation Facility
NYSDEC Site Code No. 9-15-149
Lancaster, New York**

Sample ID	Groundwater	MW-2	MW-3	MW-4	MW-6	MW-8R	MW-9	MW-10	MW-11	MW-12
Date Collected	RAO/ NYCRR	04/07/14	04/08/14	04/09/14	04/07/14	04/09/14	04/08/14	04/07/14	04/07/14	04/08/14
Lab Sample ID	Objective	480-57666-1	480-57666-12	480-57666-15	480-57666-4	480-57666-16	480-57666-9	480-57666-3	480-57666-2	480-57666-7
Volatile Organic Compounds by Method 8260 (µg/L)										
1,1,1-Trichloroethane	5*	< 1.0 U	< 1.0 U	< 1,000 U	< 1.0 U	< 1,000 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethane	5	< 1.0 U	8.9	880 J	< 1.0 U	< 1,000 U	73	< 1.0 U	7.1	< 1.0 U
1,1-Dichloroethene	5*	< 1.0 U	< 1.0 U	450 J	< 1.0 U	380 J	< 1.0 U	< 1.0 U	0.85 J	< 1.0 U
1,2-Dichloroethane	0.6	< 1.0 U	< 1.0 U	< 1,000 U	< 1.0 U	< 1,000 U	2.3	< 1.0 U	< 1.0 U	< 1.0 U
2-Butanone (MEK)	50	< 10 U	< 10 U	< 10,000 U	< 10 U	< 10,000 U	< 10.0 U	< 10 U	< 10 U	< 10 U
Acetone	50	3.30 J	< 10 U	< 10,000 U	< 10 U	< 10,000 U	< 10.0 U	< 10 U	3.7 J	4.8 J
Benzene	1	< 1.0 U	< 1.0 U	< 1,000 U	< 1.0 U	< 1,000 U	< 1.0 U	< 1.0 U	< 1.0 U	0.8 J
Chloroethane	5*	0.68 J	0.82 J	< 1,000 U	< 1.0 U	< 1,000 U	22	< 1.0 U	2.3	11
cis-1,2-Dichloroethene	5*	< 1.0 U	1.5	69,000	< 1.0 U	56,000	21	< 1.0 U	26	< 1.0 U
Toluene	5*	< 1.0 U	< 1.0 U	< 1,000 U	< 1.0 U	< 1,000 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichloroethene	5*	< 1.0 U	< 1.0 U	32,000	< 1.0 U	100,000	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vinyl chloride	5*	< 1.0 U	2.5	3,900	< 1.0 U	1,900	75	< 1.0 U	4.3	1.2
Xylenes, Total	5*	< 1.0 U	< 1.0 U	< 1,000 U	< 1.0 U	< 1,000 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U

Table 5

**Summary of April 2014 Analytical Data
Former Scott Aviation Facility
NYSDEC Site Code No. 9-15-149
Lancaster, New York**

Sample ID	Groundwater	MW-13D	MW-13S	MW-14D	MW-14S	MW-15D	MW-15S	MW-16D	MW-16S
Date Collected	RAO/ NYCRR	04/08/14	04/08/14	04/09/14	04/09/14	04/10/14	04/10/14	04/10/14	04/10/14
Lab Sample ID	Objective	480-57666-11	480-57666-10	480-57666-13	480-57666-14	480-57666-18	480-57666-17	480-57666-20	480-57666-19
Volatile Organic Compounds by Method 8260 (µg/L)									
1,1,1-Trichloroethane	5*	< 1.0 U	< 500 U	< 1.0 U	< 1.0 U	< 20 U	< 20 U	< 25 U	1,000
1,1-Dichloroethane	5	< 1.0 U	< 500 U	0.82 J	19	< 20 U	730	99	500 J
1,1-Dichloroethene	5*	< 1.0 U	< 500 U	< 1.0 U	< 1.0 U	< 20 U	15 J	< 25 U	340 J
1,2-Dichloroethane	0.6	< 1.0 U	< 500 U	< 1.0 U	1.3	< 20 U	< 20 U	< 25 U	< 1,000 U
2-Butanone (MEK)	50	< 10 U	< 5,000 U	< 10 U	< 10 U	< 200 U	290	< 250 U	< 10,000 U
Acetone	50	< 10 U	< 5,000 U	< 10 U	< 10 U	< 200 U	1,400	< 250 U	< 10,000 U
Benzene	1	< 1.0 U	< 500 U	< 1.0 U	0.93 J	< 20 U	< 20 U	< 25 U	< 1,000 U
Chloroethane	5*	< 1.0 U	< 500 U	< 1.0 U	14	1,200	250	110	< 1,000 U
cis-1,2-Dichloroethene	5*	28	18,000	28	25	< 20 U	1,000	1,700	24,000
Toluene	5*	< 1.0 U	< 500 U	< 1.0 U	< 1.0 U	< 20 U	150	< 25 U	< 1,000 U
Trichloroethene	5*	30	32,000	< 1.0 U	< 1.0 U	< 20 U	160	< 25 U	61,000
Vinyl chloride	5*	1.9	< 500 U	17	19	< 20 U	350	390	1,600
Xylenes, Total	5*	< 1.0 U	< 500 U	< 1.0 U	< 1.0 U	< 20 U	24 J	< 25 U	< 1,000 U

Notes:

Bold font indicates the analyte was detected.

Bold font and bold outline indicates the screening criteria was exceeded.

* Site-specific RAO per ROD (November 1994)

J - Analyte detected at a level less than the reporting limit and greater than or equal to the method detection limit. Concentrations within this range are estimated.

U - Not detected at or above reporting limit.

Table 6

Vapor Monitoring Results - April 2014
Former Scott Aviation Facility
NYSDEC Site Code No. 9-15-149
Lancaster, New York

Sample ID: Sample Date:	LRP Effluent 4/7/2014	AS Effluent 4/7/2014
<u>VOCs by Method TO-15 ($\mu\text{g}/\text{m}^3$)</u>		
Vinyl Chloride	990	- U
Toluene	- U	4.5
1,1-Dichloroethane	610	9
Chloroethane	61	960
cis-1,2-Dichloroethene	2,300	450
Trichloroethene	34,000	220
Total Detected VOCs ($\mu\text{g}/\text{m}^3$)	36,971	1,639
Vacuum (inches Hg)*	22	0.44
Air Flow Rate (acfm)*	33	214
VOC discharge loading (lb/hr)	0.0046	0.0013
Total VOC discharge loading (lb/hr)	0.006	

Notes:

* The LRP flow rate used for the calculation was recorded during the sampling activity (44 scfm, 22 in. Hg) on April 7, 2014.

* The air stripper vacuum measured on April 7, 2014 was 4 inches H₂O and the flow rate was 210 scfm.

1. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter

2. acfm = actual cubic feet per minute

3. scfm = standard cubic feet per minute

4. lb/hr = pounds per hour

5. LRP Effluent represents the untreated vapor discharge for the Liquid Ring Pump.

6. AS Effluent represents the untreated vapor discharge for the Air Stripper.

Qualifiers:

U - Not detected at or above reporting limit (reporting limit not included in the Total Detected VOCs).

Table 7

Volatile Organic Compound Removed - Aqueous Phase
Former Scott Aviation Facility
NYSDEC Site Code No. 9-15-149
Lancaster, New York

Sample ID Sample Date	Influent Third Quarter 2013	Influent Fourth Quarter 2013	Influent First Quarter 2014	Influent Second Quarter 2014
<u>VOCs (Method 8260) (µg/L)</u>				
Acetone	4.1 J	ND	14 J	7.0 J
Chloroethane	9.5	28	0.91 J	2.0
1,1-Dichloroethane	2.0	3.1	1.9 J	4.1
cis-1,2-Dichloroethene	63	170	130	180
Trichloroethene	32	52	130	110
Vinyl Chloride	3.0	59	ND	ND
Total VOCs (µg/L)	113.6	312.1	276.8	303.1
Air Stripper Totalizer Readings (gallons)	112,455 (4/3/13) 317,430 (7/1/13)	317,430 (7/1/13) 463,281 (10/9/13)	463,281 (10/9/13) 638,633 (1/21/14)	638,633 (1/21/14) 779,870 (4/7/14)
Gallons Processed	204,975	145,851	175,352	141,237
VOCs Removed (pounds)	0.195	0.380	0.406	0.358
Total VOCs Removed (pounds)	1.338			

Notes:

1. µg/L = micrograms per liter
2. Influent - Represents the combined dual phase extraction and groundwater collection trench influent to the air stripper
3. Dates are indicated next to the air stripper totalizer readings
4. New AS totalizer installed on March 1, 2013 (end reading of old totalizer was 515,864 gallons)

Qualifiers:

J - Indicates compounds detected as estimated

U - Indicates compounds not detected above the quantitation limit

Table 8

Volatile Organic Compound Mass Removed - Vapor Phase
Former Scott Aviation Facility
NYSDEC Site Code No. 9-15-149
Lancaster, New York

Sample ID: Sample Date:	LRP Effluent 7/1/2013	AS Effluent 7/1/2013	LRP Effluent 10/9/2013	AS Effluent 10/9/2013	LRP Effluent 1/21/2014	AS Effluent 1/21/2014	LRP Effluent 4/7/2014	AS Effluent 4/7/2014
VOCs by Method TO-15 (µg/m³)								
Vinyl Chloride	890	2.8	-	77	-	1.5	990	U
1,1-Dichloroethane	490	20	-	5.0	-	1.0	610	9
Chloroethane	U	95	-	39	-	6.7	61	960
Dichlorofluoromethane	U	U	-	U	-	2.5	U	U
Cyclohexane	U	U	-	U	-	1.0	U	U
Trichlorofluoromethane	U	U	-	U	-	1.3	U	U
1,2,4-Trimethylbenzene	U	U	-	U	-	1.1	U	U
Carbon Disulfate	U	U	-	5.1	-	3.0	U	U
Ethylbenzene	U	U	-	U	-	1.1	U	U
2,2,4-Trimethylbenzene	U	U	-	U	-	1.2	U	U
Benzene	U	3.0	-	2.2	-	2.2	U	U
n-Hexane	U	U	-	U	-	4.6	U	U
n-Heptane	U	U	-	1.8	-	1.3	U	U
Xylene (total)	U	5.0	-	3.2	-	5.3	U	U
Toluene	U	6.6	-	5.3	-	7.3	U	4.5
1,2-Dichloroethene (total)	20,000	430	-	290	-	12	2,300	450
Trichloroethene	120,000	270	-	84	-	9	34,000	220
Total Detected VOCs (µg/m³)	141,380	832	38,000	513	38,000	62	37,961	1,644
Air Flow Rate (acfm)	91	120	40	118	52	206	33	214
VOC discharge loading (lb/hr)	0.0482	0.0004	0.0057	0.0002	0.0074	0.0000	0.0047	0.0013
LRP/AS Runtime (hours)	1,387	2,137	1,819	2,137	666	2,492	1,750	1,804
Total VOC discharge loading (lb)	66.85	0.80	10.36	0.48	4.93	0.12	8.21	2.38
Total VOCs removed (lb)	94.1							

Notes:

1. µg/m³ = micrograms per cubic meter
2. Undetected compounds (U) not included in Total Average VOCs
3. acfm = actual cubic feet per minute
4. lb/hr = pounds per hour
5. LRP = liquid ring pump effluent
6. AS = air stripper effluent
7. LRP runtime calculated using the difference in hour meter readings between reporting periods
8. Total Detected VOCs estimated for LRP effluent on 10/9/13 and 1/22/14 as no samples were collected

Qualifiers:

U - Indicates compounds not detected above the quantitation limit

Table 9

**Combined DPE Remediation System Operation and Maintenance Schedule
Former Scott Aviation Facility
NYSDEC Site Code No. 9-15-149
Lancaster, New York**

Frequency	Operation and Maintenance Activity
Weekly	Record System Operational Parameters Inspect All Piping, Mechanical, and Electrical Components Check/Fill LRP Seal Fluid
Monthly	Change Bag Filters/Clean Housings and change KO Tank Filter as needed
Quarterly	Clean System Components (KO Tank, Hold Tank, Air Stripper)
Annually	Replace LRP Seal Fluid Replace LRP Separator Element Grease LRP Bearings Perform DPE Well and Conveyance Lines Scale Abatement Activity at Select Wells

Notes:

DPE: Dual Phase Extraction

KO: Knockout

LRP: Liquid Ring Pump

Table 10

Groundwater Monitoring Schedule - July 2014 through April 2015
Former Scott Aviation Facility
NYSDEC Site Code No. 9-15-149
Lancaster, New York

Event Date	Number of Wells/Piezometers Scheduled for Sampling	Wells/Piezometers Scheduled for Sampling			
Quarterly Groundwater Monitoring					
July 2014	8	MW-2 MW-10	MW-3 MW-11	MW-4 MW-12	MW-6 MW-16S
October 2014	8	MW-2 MW-10	MW-3 MW-11	MW-6 MW-12	MW-8R MW-13S
January 2015	8	MW-2 MW-10	MW-3 MW-11	MW-4 MW-12	MW-6 MW-16S
Comprehensive Annual Groundwater Monitoring					
April 2015	17	MW-2 MW-8R MW-12 MW-14D MW-16D	MW-3 MW-9 MW-13S MW-15S	MW-4 MW-10 MW-13D MW-15D	MW-6 MW-11 MW-14S MW-16S

Notes:

MW-## - Monitoring Well

MW-##S - Shallow piezometer

MW-##D - Deep piezometer

Table 11

Monitoring and Compliance Sampling Summary
Former Scott Aviation Facility
NYSDEC Site Code No. 9-15-149
Lancaster, New York

Location/Type	Matrix	Analytical Parameter					Comments
		VOCs (aqueous)	TPH (aqueous)	TSS (aqueous)	pH (aqueous)	VOCs (vapor)	
Quarterly BSA Sampling - 4 Events							
GWTB Influent	aqueous	1	1	1	1	0	Four grabs over 8 hour process day
GWTB Effluent	aqueous	1	1	1	1	0	Four grabs over 8 hour process day
Trip Blank	aqueous	1	0	0	0	0	Quality Assurance/Quality Control
Per Event		3	2	2	2	0	
Sub-Total		12	8	8	8	0	
Remedial Action Compliance Sampling							
Quarterly - 3 Events							
Primary Samples	aqueous	8	0	0	0	0	*Wells: MW-2, MW-3, MW-4, MW-6, MW-8R, MW-10, MW-11, MW-12, MW-13S, MW-16S
Duplicate	aqueous	1	0	0	0	0	Quality Assurance/Quality Control
Trip Blank	aqueous	1	0	0	0	0	Quality Assurance/Quality Control
Rinsate Blank	aqueous	1	0	0	0	0	Quality Assurance/Quality Control
Air Stripper Effluent	air	0	0	0	0	1	Air Discharge Limit Compliance
LRP Effluent	air	0	0	0	0	1	Air Discharge Limit Compliance
Per Event		11	0	0	0	2	
Subtotal		33	0	0	0	6	
Annual Event - 1 Event							
Primary Samples	aqueous	17	0	0	0	0	Wells: MW-2, MW-3, MW-4, MW-6, MW-8R, MW-9, MW-10, MW-11, MW-12, MW-13 S/D, MW-14 S/D, MW-15 S/D, MW-16 S/D
Trip Blank	aqueous	1	0	0	0	0	Quality Assurance/Quality Control
Duplicate	aqueous	1	0	0	0	0	Quality Assurance/Quality Control
Rinsate Blank	aqueous	1	0	0	0	0	Quality Assurance/Quality Control
Air Stripper Effluent	air	0	0	0	0	1	Air Discharge Limit Compliance
LRP Effluent	air	0	0	0	0	1	Air Discharge Limit Compliance
Subtotal		20	0	0	0	2	
Total		65	8	8	8	8	

Methods:

Volatile organic compounds (VOCs) by USEPA SW-846 Method 8260B (aqueous)

Total extractable hydrocarbons (TPH) by 40 CFR 136 Method 160.2

Total suspended solids (TSS) by 40 CFR 136 Method 1664

pH by 40 CFR 136 Method 150.1

VOCs by USEPA Method TO-15 (air)

* alternate MW-4/MW-16S and MW-8R/MW-13S every quarter

Appendix A

Former Scott Aviation Plant 2 O&M Checklist

AECOM Technical Services, Inc.
SCOTT AVIATION PLANT 2 O&M CHECKLIST (updated 4/2013)

Date: _____ **Weather:** _____

Time: _____ **Field Technician Name:** _____

DPE Process Room

DPE Wells (indicate vacuum reading if well is in operation)

DPE-1	_____ "Hg	DPE-5	_____ "Hg
DPE-2	_____ "Hg	DPE-6	_____ OFF
DPE-3	_____ "Hg	DPE-7	_____ "Hg
DPE-4	_____ "Hg	DPE-8	_____ "Hg

Comments: _____

LRP Tank Exhaust Temperature -	_____ °F	KO Pump Pressure -	_____ No gauge
LRP Filter Pressure -	_____ PSI	Hold Tank Pump Pressure -	_____ PSI
LRP Oil Level -	_____	Bag Filter #1 Inlet Pressure -	_____ PSI
LRP Inlet Vacuum -	_____ "Hg	Bag Filter #1 Outlet Pressure -	_____ PSI
LRP Exhaust Temperature -	_____ °F	Bag Filter #2 Inlet Pressure -	_____ Bag filter off line
LRP Flow Rate -	_____ x1000 FPM	Bag Filter #2 Outlet Pressure -	_____ Bag filter off line
KO Tank Vacuum -	_____ "Hg	DPE Totalizer (T1) -	_____ GAL
		DPE Totalizer (T2) -	_____ GAL

Comments: _____

DPE Control Room

LRP Hour Meter -	_____ HRS
KO Tank Hour Meter -	_____ HRS
Hold Tank Hour Meter -	_____ HRS

Comments: _____

Groundwater Treatment Building

GW Trench Totalizer	_____ GAL	Air Stripper Vacuum -	_____ "H ₂ O
Air Stripper Influent Flowrate -	_____ GPM	Air Stripper Flow -	_____ "H ₂ O
Air Stripper Effluent Totalizer (T1) -	_____ GAL	AS Discharge Pump Pressure -	_____ PSI
Air Stripper Effluent Totalizer (T2) -	_____ GAL	AS Flow Gauge -	_____ SCFM
Air Stripper Effluent Temperature -	_____ °F		

Comments: _____

Appendix B

April 2014 Field Forms

GROUNDWATER SAMPLING LOG

Date (mo/day/yr) 4/7/2014

Field Personnel DLZ

Site Name Former Scott Aviation Site - Lancaster, NY

Job # 60314190

Well ID # MW-2

 Upgradient Downgradient

Weather Conditions cloudy

Air Temperature 32 ° F

Total Depth (TWD) Below Top of Casing = 16.4 1/100 ft

Depth to Groundwater (DGW) Below Top of Casing = 5.85 1/100 ft

Length of Water Column (LWC) = TWD - DGW = 1/100 ft

1 Casing Volume (OCV) = LWC x 0.163 = gal

3 Casing Volumes = gal

Method of Well Evacuation Peristaltic Pump

Method of Sample Collection Peristaltic Pump/Poly Tubing

Total Volume of Water Removed 4 liter

Casing Diameter 2 inches

Casing Material PVC

Measuring Point Elevation 690.35 1/100 ft

Height of Riser (above land surface) 1/100 ft

Land Surface Elevation 1/100 ft

Screened Interval (below land surface) 7-17 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	90	90	100		
Time (Military)	12:40	12:45	12:50	12:55	13:00	13:05		
Depth to Groundwater Below Top of Casing (ft)	6.8	7.4	8.05	8.1	8.47	8.25		
Drawdown (ft)	-0.95	-0.6	-0.65	-0.05	-0.37	0.22		
pH (S.U.)	6.87	6.56	6.48	6.4	6.38	6.38		
Sp. Cond. (mS/cm)	1.63	1.651	1.657	1.67	1.669	1.615		
Turbidity (NTUs)	-	-	-	-	-	-		
Dissolved Oxygen (mg/L)	5.63	1.08	0.77	0.84	0.52	0.32		
Water Temperature (°C)	8	8.1	8.2	7.1	7.4	7.8		
ORP (mV)	-113	-111.6	-112.8	-107.9	-107.5	-108.8		

Physical appearance at start Color clear w/ little iron bacteriaOdor noSheen/Free Product noPhysical appearance at sampling Color clearOdor noSheen/Free Product noCOMMENTS/OBSERVATIONS Samples collected 13:10hrs; turbidity meter not working properly.



GROUNDWATER SAMPLING LOG

Page ____ of ____

Date (mo/day/yr)	4/8/2014	
Field Personnel	DLZ	
Site Name	Former Scott Aviation Site - Lancaster, NY	
Job #	60314190	
Well ID #	MW-3	
	Upgradient	Downgradient
Weather Conditions	cloudy	
Air Temperature	32	° F
Total Depth (TWD) Below Top of Casing =	28	1/100 ft
Depth to Groundwater (DGW) Below Top of Casing =	11.1	1/100 ft
Length of Water Column (LWC) = TWD - DGW =	16.9	1/100 ft
1 Casing Volume (OCV) = LWC x	0.163	= 10.4 liter
3 Casing Volumes =	31	liter
Method of Well Evacuation	Peristaltic Pump	
Method of Sample Collection	Peristaltic Pump/Poly Tubing	
Total Volume of Water Removed	liter	

Casing Diameter	2	inches
Casing Material	PVC	
Measuring Point Elevation	687.02	1/100 ft
Height of Riser (above land surface)	1.42	1/100 ft
Land Surface Elevation	685.6	1/100 ft
Screened Interval (below land surface)	7.5 - 27.5	1/100 ft

[illegible]

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100			
Time (Military)	9:05	9:10	9:15	9:20	9:25			
Depth to Groundwater Below Top of Casing (ft)	12.4	12.82	13.2	13.5	13.78			
Drawdown (ft)	1.3	-0.42	-0.38	-0.3	-0.28			
pH (S.U.)	7.06	7.03	7.01	7	7			
Sp. Cond. (mS/cm)	1.017	1.021	1.054	1.067	1.076			
Turbidity (NTUs)	-	-	-	-	-			
Dissolved Oxygen (mg/L)	3.71	3.13	2.98	2.67	2.11			
Water Temperature (°C)	7.89	8.01	8.48	8.56	8.53			
ORP (mV)	134.7	128.3	112.7	104.8	102.6			

Physical appearance at start	Color	<u>clear</u>
	Odor	no

Sheen/Free Product	no

Physical appearance at sampling	Color	clear
	Odor	no

Sheen/Free Product	no

COMMENTS/OBSERVATIONS Sample at 09:30hrs; turbidity meter not working properly.

GROUNDWATER SAMPLING LOG

Date (mo/day/yr)	4/9/2014	
Field Personnel	DLZ	
Site Name	Former Scott Aviation Site - Lancaster, NY	
Job #	60314190	
Well ID #	MW-4	
	Upgradient	Downgradient
Weather Conditions	sunny	
Air Temperature	45	° F
Total Depth (TWD) Below Top of Casing =	26	1/100 ft
Depth to Groundwater (DGW) Below Top of Casing =	12.85	1/100 ft
Length of Water Column (LWC) = TWD - DGW =		1/100 ft
1 Casing Volume (OCV) = LWC x	0.163	= gal
3 Casing Volumes =		gal
Method of Well Evacuation	Peristaltic Pump	
Method of Sample Collection	Peristaltic Pump/Poly Tubing	
Total Volume of Water Removed	4	liters

Casing Diameter	2	inches
Casing Material	PVC	
Measuring Point Elevation	686.64	1/100 ft
Height of Riser (above land surface)		1/100 ft
Land Surface Elevation		1/100 ft
Screened Interval (below land surface)	15.5 - 25.5	1/100 ft

[illegible]

FIELD ANALYSES

Flow Rate (ml/min)	110	110	100	100	100	100		
Time (Military)	12:55	13:00	13:05	13:10	13:15	13:20		
Depth to Groundwater Below Top of Casing (ft)	13.6	14.35	14.65	15.1	15.55	15.75		
Drawdown (ft)	-0.75	-0.75	-0.3	-0.45	-0.45	-0.2		
pH (S.U.)	6.54	6.39	6.28	6.29	6.27	6.26		
Sp. Cond. (mS/cm)	4.942	4.875	4.876	4.781	4.761	4.772		
Turbidity (NTUs)	-	-	-	-	-	-		
Dissolved Oxygen (mg/L)	6.22	0	0	0	0	0		
Water Temperature (°C)	11.4	11.2	10.8	11	11.1	10.9		
ORP (mV)	-152.8	-152.6	-149.9	-147.1	-148.1	-148.6		

Physical appearance at start	Color	<u>clear</u>
	Odor	<u>no</u>
Sheen/Free Product	slight sheen	

Physical appearance at sampling	Color	<u>clear</u>
	Odor	<u>no</u>
Sheen/Free Product	slight sheen	

COMMENTS/OBSERVATIONS Sample at 13:25hrs; turbidity meter not working properly.



GROUNDWATER SAMPLING LOG

Page ____ of ____

Date (mo/day/yr) _____	4/7/2014	
Field Personnel _____	DLZ	
Site Name _____	Former Scott Aviation Site - Lancaster, NY	
Job # _____	60314190	
Well ID # _____	MW-6	
_____ Upgradient	_____ Downgradient	
Weather Conditions _____	cloudy	
Air Temperature _____	32	° F
Total Depth (TWD) Below Top of Casing = _____	25	1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = _____	10.75	1/100 ft
Length of Water Column (LWC) = TWD - DGW = _____	14.25	1/100 ft
1 Casing Volume (OCV) = LWC x _____	0.163	= _____ 8.8 liter
3 Casing Volumes = _____	26	liter
Method of Well Evacuation _____	Peristaltic Pump	
Method of Sample Collection _____	Peristaltic Pump/Poly Tubing	
Total Volume of Water Removed _____		liter

Casing Diameter _____	2	inches
Casing Material _____	PVC	
Measuring Point Elevation _____	686.53	1/100 ft
Height of Riser (above land surface) _____	-0.27	1/100 ft
Land Surface Elevation _____	686.8	1/100 ft
Screened Interval (below land surface) _____	14.5 - 24.5	1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260C)	3	HCL, 4°C	

FIELD ANALYSES							
Flow Rate (ml/min)	100	100	100	100			
Time (Military)	14:35	14:40	14:45	14:50			
Depth to Groundwater Below Top of Casing (ft)	13.9	13.98	14.1	14.21			
Drawdown (ft)	-3.15	-0.08	-0.12	-0.11			
pH (S.U.)	7.67	7.6	7.58	7.55			
Sp. Cond. (mS/cm)	0.669	0.73	0.732	0.735			
Turbidity (NTUs)	-	-	-	-			
Dissolved Oxygen (mg/L)	6.18	5.12	5	4.98			
Water Temperature (°C)	10.44	10.15	10.19	10.2			
ORP (mV)	84.9	88.1	89.3	91			

Physical appearance at start	Color	clear	Physical appearance at sampling	Color	clear
	Odor	no		Odor	no
Sheen/Free Product		no	Sheen/Free Product		no

COMMENTS/OBSERVATIONS Sample at 14:50hrs; turbidity meter not working properly.

71149\Admin\Project Management\Appendix B - 2Q14 field forms



GROUNDWATER SAMPLING LOG

Page ____ of ____

Date (mo/day/yr) _____	4/8/2014	
Field Personnel _____	DLZ	
Site Name _____	Former Scott Aviation Site - Lancaster, NY	
Job # _____	60314190	
Well ID # _____	MW-9	
_____ Upgradient	_____ Downgradient	
Weather Conditions _____	rain/snow	
Air Temperature _____	32	
Total Depth (TWD) Below Top of Casing = _____	23.5	1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = _____	15.3	1/100 ft
Length of Water Column (LWC) = TWD - DGW = _____		1/100 ft
1 Casing Volume (OCV) = LWC x _____	0.163	= _____ gal
3 Casing Volumes = _____		gal
Method of Well Evacuation _____	Peristaltic Pump	
Method of Sample Collection _____	Peristaltic Pump/Poly Tubing	
Total Volume of Water Removed _____		liter

Casing Diameter _____	2	inches
Casing Material _____	PVC	
Measuring Point Elevation _____	688.64	1/100 ft
Height of Riser (above land surface) _____	3.34	1/100 ft
Land Surface Elevation _____	685.3	1/100 ft
Screened Interval (below land surface) _____	3.5 - 23.5	1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

Flow Rate (ml/min)	100	100	100	100	100	100		
Time (Military)	10:20	10:25	10:30	10:35	10:40	10:45		
Depth to Groundwater Below Top of Casing (ft)	15.85	16.10	16.40	16.60	16.80	16.90		
Drawdown (ft)	-0.55	-0.25	-0.30	-0.20	-0.20	-0.10		
pH (S.U.)	7.13	7.11	7.11	7.12	7.12	7.12		
Sp. Cond. (mS/cm)	1.127	1.129	1.138	1.138	1.136	1.136		
Turbidity (NTUs)	-	-	-	-	-	-		
Dissolved Oxygen (mg/L)	4.63	1.13	0.97	0.98	1.03	1.08		
Water Temperature (°C)	7.87	7.94	7.95	7.95	7.94	7.94		
ORP (mV)	121	117.3	113.7	113.9	114.1	114.2		

Physical appearance at start	Color	clear	Physical appearance at sampling	Color	clear
	Odor	no		Odor	no
Sheen/Free Product	no		Sheen/Free Product	no	

COMMENTS/OBSERVATIONS Sample at 10:50 hrs; turbidity meter not working properly.



GROUNDWATER SAMPLING LOG

Page ____ of ____

Date (mo/day/yr) _____	4/7/2014	
Field Personnel _____	DLZ	
Site Name _____	Former Scott Aviation Site - Lancaster, NY	
Job # _____	60314190	
Well ID # _____	MW-11	
_____ Upgradient	_____ Downgradient	
Weather Conditions _____	cloudy/light rain	
Air Temperature _____	55	
Total Depth (TWD) Below Top of Casing = _____	28.5	1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = _____	14.5	1/100 ft
Length of Water Column (LWC) = TWD - DGW = _____	14	1/100 ft
1 Casing Volume (OCV) = LWC x _____	0.163 = 8.6	liter
3 Casing Volumes = _____	26	liter
Method of Well Evacuation _____	Peristaltic Pump	
Method of Sample Collection _____	Peristaltic Pump/Poly Tubing	
Total Volume of Water Removed _____		liter

Casing Diameter _____	2	inches
Casing Material _____	PVC	
Measuring Point Elevation _____	688.65	1/100 ft
Height of Riser (above land surface) _____	-0.25	1/100 ft
Land Surface Elevation _____	688.9	1/100 ft
Screened Interval (below land surface) _____	8.5 - 28.5	1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260C)	3	HCL, 4°C	

Flow Rate (ml/min)	125	125	125	125	125		
Time (Military)	13:20	13:25	13:30	13:35	13:40		
Depth to Groundwater Below Top of Casing (ft)	15.05	15.05	15.06	15.4	15.55		
Drawdown (ft)	-0.55	0	-0.01	-0.34	-0.15		
pH (S.U.)	7.09	7.1	7.1	7.1	7.1		
Sp. Cond. (mS/cm)	3.647	3.799	3.790	3.850	3.865		
Turbidity (NTUs)	-	-	-	-	-		
Dissolved Oxygen (mg/L)	2.19	2.43	2.66	3.85	2.29		
Water Temperature (°C)	10.89	10.34	10.25	10.98	10.98		
ORP (mV)	28.6	32.1	56.2	57.1	57.8		

Physical appearance at start	Color _____	Physical appearance at sampling	Color _____
	Odor _____		Odor _____
Sheen/Free Product _____		Sheen/Free Product _____	

COMMENTS/OBSERVATIONS	Sample at 13:50 hrs; turbidity meter not working properly.



GROUNDWATER SAMPLING LOG

Page ____ of ____

Date (mo/day/yr)	<u>4/8/2014</u>			Casing Diameter	<u>4</u>			inches	
Field Personnel	<u>DLZ</u>			Casing Material	<u>PVC</u>				
Site Name	<u>Former Scott Aviation Site - Lancaster, NY</u>								
Job #	<u>60314190</u>								
Well ID #	<u>MW-12</u>								
	☐ Upgradient	☒	Downgradient						
Weather Conditions	<u>rain/snow</u>								
Air Temperature	<u>32</u>					<u>° F</u>			
Total Depth (TWD) Below Top of Casing =	<u>27.5</u>					<u>1/100 ft</u>			
Depth to Groundwater (DGW) Below Top of Casing =	<u>6.0</u>					<u>1/100 ft</u>			
Length of Water Column (LWC) = TWD - DGW =	<u></u>					<u>1/100 ft</u>			
1 Casing Volume (OCV) = LWC x	<u>0.163</u>	=	<u></u>			<u>gal</u>			
3 Casing Volumes =	<u></u>					<u>gal</u>			
Method of Well Evacuation	<u>Peristaltic Pump</u>								
Method of Sample Collection	<u>Peristaltic Pump/Teflon Tubing</u>								
Total Volume of Water Removed	<u></u>							<u>liter</u>	

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

VOLUME PURGED (ml)	100	100	100	100	100			
TIME (Military)	12:50	12:55	13:00	13:05	13:10			
Depth to Groundwater Below Top of Casing (ft)	6.7	7.5	7.61	7.69	7.7			
Drawdown (ft)	-0.7	-0.8	-0.11	-0.08	-0.01			
pH (S.U.)	6.74	6.73	6.73	6.75	6.73			
Sp. Cond. (mS/cm)	1.513	1.517	1.517	1.516	1.515			
Turbidity (NTUs)	-	-	-	-	-			
Dissolved Oxygen (mg/L)	4.81	1.55	1.26	1.11	0.96			
Water Temperature (°C)	7.09	7.17	7.19	7.18	7.17			
ORP (mV)	-76.5	-77.7	-77.6	-78.1	-79.7			

Physical appearance at start	Color	<u>clear</u>	Physical appearance at sampling	Color	<u>clear</u>
	Odor	<u>no</u>		Odor	<u>no</u>
Sheen/Free Product	<u>no</u>				
Sheen/Free Product	<u>no</u>				

COMMENTS/OBSERVATIONS	<u>Sample at 13:15 hrs; turbidity meter not working properly.</u>



GROUNDWATER SAMPLING LOG

Page ____ of ____

Date (mo/day/yr) 4/8/2014
Field Personnel DLZ
Site Name Former Scott Aviation Site - Lancaster, NY
Job # 60314190
Well ID # MW-13D

 Upgradient Downgradient

Weather Conditions rain

Air Temperature 31 ° F

Total Depth (TWD) Below Top of Casing = 23.5 1/100 ft

Depth to Groundwater (DGW) Below Top of Casing = 10.9 1/100 ft

Length of Water Column (LWC) = TWD - DGW = 1/100 ft

1 Casing Volume (OCV) = LWC x 0.163 = gal

3 Casing Volumes = gal

Method of Well Evacuation Peristaltic Pump

Method of Sample Collection Peristaltic Pump/Poly Tubing

Total Volume of Water Removed liter

Casing Diameter 1 inches

Casing Material PVC

Measuring Point Elevation 686.73 1/100 ft

Height of Riser (above land surface) -0.17 1/100 ft

Land Surface Elevation 686.9 1/100 ft

Screened Interval (below land surface) 19.5-23.5 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100	100		
Time (Military)	14:05	14:10	14:15	14:20	14:25	14:30		
Depth to Groundwater Below Top of Casing (ft)	-	-	-	-	-	-		
Drawdown (ft)	-	-	-	-	-	-		
pH (S.U.)	7.88	-	-	7.57	7.58	7.58		
Sp. Cond. (mS/cm)	0.392	-	-	0.904	0.928	0.953		
Turbidity (NTUs)	-	-	-	-	-	-		
Dissolved Oxygen (mg/L)	11.6	-	-	4.25	4.45	4.69		
Water Temperature (°C)	6.29	-	-	6.94	6.87	6.81		
ORP (mV)	31.8	-	-	-8.7	-14.9	-20.5		

Physical appearance at start Color clear

Odor no

Sheen/Free Product no

Physical appearance at sampling Color clear

Odor no

Sheen/Free Product no

COMMENTS/OBSERVATIONS Sample at 14:30 hrs; turbidity meter not working properly; water level probe did not fit in 1/2-inch casing.

71149\Admin\Project Management\Appendix B - 2Q14 field forms

Date (mo/day/yr) _____	4/9/2014	
Field Personnel _____	DLZ	
Site Name _____	Former Scott Aviation Site - Lancaster, NY	
Job # _____	60197162	
Well ID # _____	MW-14D	
_____ Upgradient	_____ Downgradient	
Weather Conditions _____	cloudy	
Air Temperature _____	32	° F
Total Depth (TWD) Below Top of Casing = _____	23.5	1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = _____	16	1/100 ft
Length of Water Column (LWC) = TWD - DGW = _____		1/100 ft
1 Casing Volume (OCV) = LWC x _____	0.163	= _____ gal
3 Casing Volumes = _____		gal
Method of Well Evacuation _____	Peristaltic Pump	
Method of Sample Collection _____	Peristaltic Pump/Poly Tubing	
Total Volume of Water Removed _____	3	liter

Casing Diameter _____	1	inches
Casing Material _____	PVC	
Measuring Point Elevation _____	685.84	1/100 ft
Height of Riser (above land surface) _____		1/100 ft
Land Surface Elevation _____		1/100 ft
Screened Interval (below land surface) _____	18.5-23.5	1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES							
Flow Rate (ml/min)	100	100	100	100	100		
Time (Military)	8:15	8:20	8:25	8:30	8:35		
Depth to Groundwater Below Top of Casing (ft)	-	-	-	-	-		
Drawdown (ft)	-	-	-	-	-		
pH (S.U.)	11.03	9.04	7.97	7.48	7.25		
Sp. Cond. (mS/cm)	0.955	1.085	1.202	1.257	1.313		
Turbidity (NTUs)	-	-	-	-	-		
Dissolved Oxygen (mg/L)	4.22	1.98	1.23	0.08	0.09		
Water Temperature (°C)	11.2	11.2	11.4	11.6	11.5		
ORP (mV)	-149.9	-233.6	-158.1	-149	-138		
Physical appearance at start	Color	clear	Physical appearance at sampling	Color	clear		
	Odor	no		Odor	no		
Sheen/Free Product	no		Sheen/Free Product	no			

COMMENTS/OBSERVATIONS _____	Sample at 08:40; turbidity meter not working properly; water level probe did not fit in 1/2-inch casing.



GROUNDWATER SAMPLING LOG

Page ____ of ____

Date (mo/day/yr) <u>4/10/2014</u>		Casing Diameter <u>1</u> inches	
Field Personnel <u>DLZ</u>		Casing Material <u>PVC</u>	
Site Name <u>Former Scott Aviation Site - Lancaster, NY</u>		Measuring Point Elevation <u>687.62</u> 1/100 ft	
Job # <u>60314190</u>		Height of Riser (above land surface) <u>-0.28</u> 1/100 ft	
Well ID # <u>MW-15D</u>		Land Surface Elevation <u>687.9</u> 1/100 ft	
☐ Upgradient ☐ Downgradient		Screened Interval (below land surface) <u>21-25</u> 1/100 ft	
Weather Conditions <u>sun/clouds</u>			
Air Temperature <u>50</u> ° F			
Total Depth (TWD) Below Top of Casing = <u>25</u> 1/100 ft			
Depth to Groundwater (DGW) Below Top of Casing = <u> </u> 1/100 ft			
Length of Water Column (LWC) = TWD - DGW = <u> </u> 1/100 ft			
1 Casing Volume (OCV) = LWC x <u>0.163</u> = <u> </u> gal			
3 Casing Volumes = <u> </u> gal			
Method of Well Evacuation <u>Peristaltic Pump</u>			
Method of Sample Collection <u>Peristaltic Pump/Poly Tubing</u>			
Total Volume of Water Removed <u> </u> liter			

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	4°C	

FIELD ANALYSES							
Flow Rate (ml/min)	100	100	100	100	100		
Time (Military)	9:30	9:35	9:40	9:45	9:50		
Depth to Groundwater Below Top of Casing (ft)	-	-	-	-	-		
Drawdown (ft)	-	-	-	-	-		
pH (S.U.)	7.51	7.45	7.46	7.47	7.47		
Sp. Cond. (mS/cm)	1.102	1.15	1.196	1.288	1.299		
Turbidity (NTUs)	-	-	-	-	-		
Dissolved Oxygen (mg/L)	2.46	0.75	0.68	0.57	0.51		
Water Temperature (°C)	11.55	12.09	11.98	11.53	11.51		
ORP (mV)	-76.9	-103.5	-109.5	-114.8	-117.2		

Physical appearance at start	Color <u>dark grey</u>	Physical appearance at sampling	Color <u>dark grey</u>
	Odor <u>sulfur</u>		Odor <u>sulfur</u>
Sheen/Free Product <u>no</u>		Sheen/Free Product <u>o</u>	

COMMENTS/OBSERVATIONS	<u>Sample at 10:00hrs; turbidity meter not working properly; water level probe did not fit in 1/2-inch casing.</u>



GROUNDWATER SAMPLING LOG

Page ____ of ____

Date (mo/day/yr) _____
Field Personnel _____
Site Name **Former Scott Aviation Site - Lancaster, NY**
Job # **60314190**
Well ID # **MW-16S**
_____ Upgradient _____ Downgradient

Casing Diameter **1** inches
Casing Material **PVC**
Measuring Point Elevation **685.84** 1/100 ft
Height of Riser (above land surface) **-0.56** 1/100 ft
Land Surface Elevation **686.4** 1/100 ft
Screened Interval (below land surface) **12 - 18** 1/100 ft

Weather Conditions _____

Air Temperature _____ ° F
Total Depth (TWD) Below Top of Casing = **15.4** 1/100 ft
Depth to Groundwater (DGW) Below Top of Casing = _____ 1/100 ft
Length of Water Column (LWC) = TWD - DGW = **15.4** 1/100 ft
1 Casing Volume (OCV) = LWC x **0.163** = **9.5** liter
3 Casing Volumes = **29** liter
Method of Well Evacuation **Peristaltic Pump**
Method of Sample Collection **Peristaltic Pump/Poly Tubing**
Total Volume of Water Removed _____ liter

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260C)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100		
Time (Military)	8:50	8:55	9:00	9:05	9:10		
Depth to Groundwater Below Top of Casing (ft)	-	-	-	-	-		
Drawdown (ft)	-	-	-	-	-		
pH (S.U.)	6.99	6.96	6.98	6.99	7		
Sp. Cond. (mS/cm)	1.225	1.204	1.198	1.164	1.162		
Turbidity (NTUs)	-	-	-	-	-		
Dissolved Oxygen (mg/L)	3.74	2.15	3.2	4.12	4.41		
Water Temperature (°C)	7.34	7.47	8.89	8.02	8.07		
ORP (mV)	6.7	16.5	18.8	29	30.2		

Physical appearance at start Color clear
Odor slight

Physical appearance at sampling Color clear
Odor slight

Sheen/Free Product slight

Sheen/Free Product slight

COMMENTS/OBSERVATIONS Sample at 9:10 hrs; turbidity meter not working properly; water level probe did not fit in 1/2-inch casing.



GROUNDWATER SAMPLING LOG

Page ____ of ____

Date (mo/day/yr)4/10/2014

Field PersonnelDLZ

Site NameFormer Scott Aviation Site - Lancaster, NY

Job #60314190

Well ID #MW-16D

Upgradient

Downgradient

Weather Conditionscloudy

Air Temperature35 ° F

Total Depth (TWD) Below Top of Casing = 22.5 1/100 ft

Depth to Groundwater (DGW) Below Top of Casing = 1/100 ft

Length of Water Column (LWC) = TWD - DGW = 1/100 ft

1 Casing Volume (OCV) = LWC x 0.163 = gal

3 Casing Volumes = gal

Method of Well EvacuationPeristaltic Pump

Method of Sample CollectionPeristaltic Pump/Poly Tubing

Total Volume of Water Removed liter

Casing Diameter1 inches

Casing MaterialPVC

Measuring Point Elevation686.01 1/100 ft

Height of Riser (above land surface)-0.39 1/100 ft

Land Surface Elevation686.4 1/100 ft

Screened Interval (below land surface)20-24 1/100 ft

Container	Analysis (Method)	# Bottles	Preservative	Dup - MS/MSD
VOA 40 mL glass	TCL VOCs (8260B)	3	HCL, 4°C	

FIELD ANALYSES

Flow Rate (ml/min)	100	100	100	100	100		
Time (Military)	8:10	8:15	8:20	8:25	8:30		
Depth to Groundwater Below Top of Casing (ft)	-	-	-	-	-		
Drawdown (ft)	-	-	-	-	-		
pH (S.U.)	7.41	7.47	7.5	7.5	7.51		
Sp. Cond. (mS/cm)	1.884	2.087	2.1	2.113	2.115		
Turbidity (NTUs)							
Dissolved Oxygen (g/L)	2.23	1.41	1.12	0.92	0.8		
Water Temperature (°C)	10.15	9.93	9.94	9.94	10.05		
ORP (mV)	55.5	-86.9	-91.2	-103	-106.5		

Physical appearance at start

Colorclear

Odor

Sheen/Free Productno

Physical appearance at sampling

Colorclear

Odor

Sheen/Free Productno

COMMENTS/OBSERVATIONS

sample at 08:35hrs; turbidity meter not working properly; water level probe did not fit in 1/2-inch casing.

Appendix C

Current and Historical Summary of Groundwater Elevations

**MONITORING WELL MW-2
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York**

Date	Depth to Water from TOC (ft)	Groundwater Elevation (ft MSL)
11/7/2003	7.29	683.06
4/8/2004	NM	NA
10/12/2004	NM	NA
1/6/2005	5.92	684.43
4/14/2005	6.50	683.85
7/20/2005	7.77	682.58
10/4/2005	6.08	684.27
1/5/2006	9.56	680.79
4/11/2006	6.65	683.70
7/10/2006	7.79	682.56
10/18/2006	6.11	684.24
1/9/2007	6.27	684.08
2/28/2007	5.20	685.15
4/16/2007	5.99	684.36
7/2/2007	7.22	683.13
10/15/2007	8.15	682.20
1/8/2008	5.73	684.62
4/2/2008	5.95	684.40
7/1/2008	4.90	685.45
9/30/2008	7.40	682.95
1/19/2009	6.75	683.60
4/14/2009	6.15	684.20
7/21/2009	6.25	684.10
10/14/2009	5.85	684.50
1/18/2010	7.00	683.35
4/8/2010	5.45	684.90
7/12/2010	6.10	684.25
10/11/2010	7.00	683.35
1/11/2011	6.80	683.55
4/4/2011	5.70	684.65
7/25/2011	4.75	685.60
10/3/2011	4.13	686.22
1/12/2012	6.40	683.95
4/2/2012	6.00	684.35
7/5/2012	6.47	683.88
10/11/2012	7.17	683.18
1/21/2013	6.72	683.63
4/1/2013	6.10	684.25
7/1/2013	6.84	683.51
10/9/2013	6.70	683.65
1/21/2014	6.00	684.35
4/7/2014	4.95	685.40

NOTES:

ft MSL - feet mean sea level

NA - Not Available

NM - Not Measured

TOC - top of PVC casing

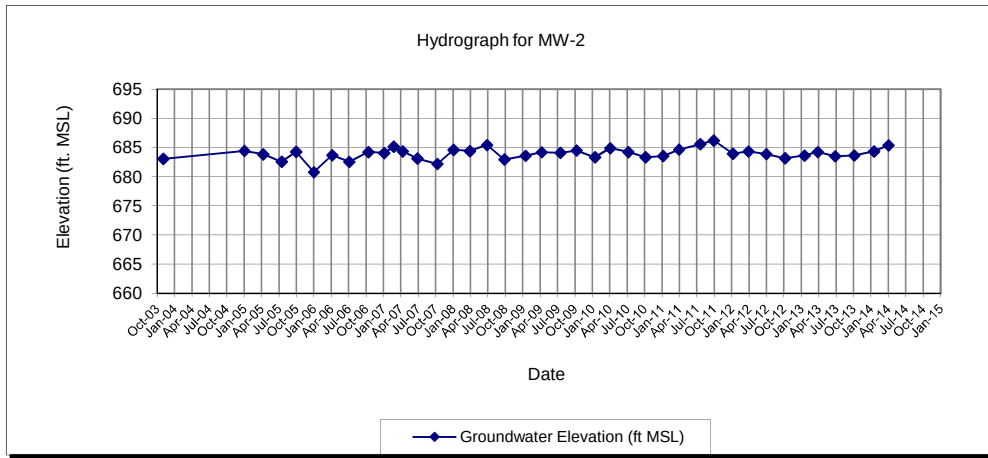
TOC Elevation - 690.35

DPE and GWCT down on 2/28/07

DPE down on 1/8/08 and 10/9/13

TOC Elevation as of 6/13/08 - 690.35

MONITORING WELL MW-2
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York



**MONITORING WELL MW-3
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York**

Date	Depth to Water from TOC (ft)	Groundwater Elevation (ft MSL)
11/7/2003	12.76	674.96
4/8/2004	NM	NA
10/12/2004	NM	NA
1/6/2005	11.65	676.07
4/14/2005	12.64	675.08
7/20/2005	12.73	674.99
10/4/2005	7.38	680.34
1/5/2006	11.31	676.41
4/11/2006	11.84	675.88
7/10/2006	12.31	675.41
10/18/2006	10.82	676.9
1/9/2007	10.99	676.73
2/28/2007	3.99	683.73
4/16/2007	11.87	675.85
7/2/2007	13.35	674.37
10/17/2007	13.1	674.62
1/8/2008	7.61	680.11
4/2/2008	11.71	676.01
7/1/2008	10.75	676.27
9/30/2008	11.95	675.07
1/19/2009	10.94	676.08
4/14/2009	10.94	676.08
7/21/2009	11.51	675.51
10/14/2009	10.75	676.27
1/18/2010	12.38	674.64
4/8/2010	11.02	676.00
7/12/2010	9.18	677.84
10/11/2010	10.9	676.12
1/12/2011	11.3	675.72
4/4/2011	10.7	676.32
7/25/2011	4.38	682.64
10/3/2011	3.14	683.88
1/12/2012	10.65	676.37
4/2/2012	9.81	677.21
7/5/2012	8.56	678.46
10/11/2012	9.77	677.25
1/21/2013	11.15	675.87
4/1/2013	8.56	678.46
7/1/2013	11.85	675.17
10/9/2013	10.43	676.59
1/21/2014	10.45	676.57
4/7/2014	11.77	675.25

NOTES:

ft MSL - feet mean sea level

NA - Not Available

NM - Not Measured

TOC - top of PVC casing

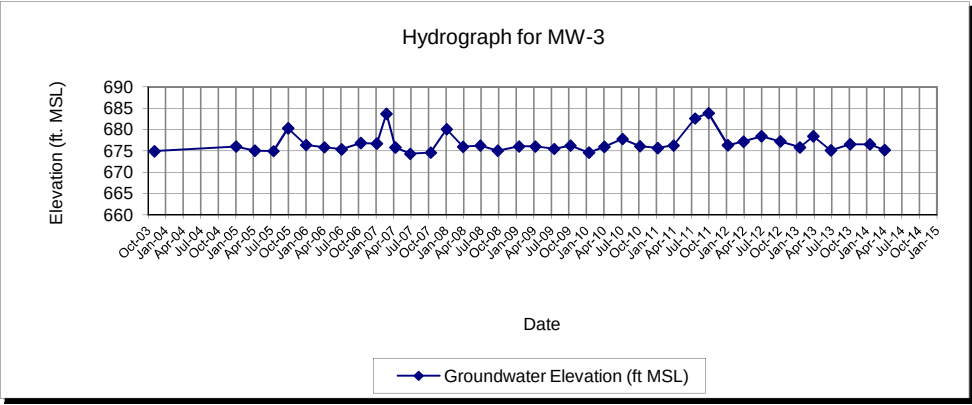
TOC Elevation - 687.72

DPE and GWCT down on 2/28/07

DPE down on 1/8/08 and 10/9/13

TOC Elevation as of 6/13/08 - 687.02

MONITORING WELL MW-3
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York



MONITORING WELL MW-4
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York

Date	Depth to Water from TOC (ft)	Groundwater Elevation (ft MSL)
11/7/2003	8.54	678.10
4/8/2004	NM	NA
10/12/2004	11.40	675.24
1/6/2005	9.20	677.44
4/14/2005	NM	NA
7/20/2005	NM	NA
10/4/2005	15.24	671.40
1/5/2006	15.71	670.93
4/11/2006	18.56	668.08
7/10/2006	15.02	671.62
10/18/2006	15.21	671.43
1/9/2007	14.00	672.64
2/28/2007	2.54	684.10
4/16/2007	12.45	674.19
7/2/2007	14.89	671.75
10/17/2007	12.91	673.73
1/8/2008	5.59	681.05
4/2/2008	9.31	677.33
7/1/2008	13.91	672.51
9/30/2008	13.55	672.87
1/19/2009	10.78	675.64
4/14/2009	8.90	677.52
7/21/2009	12.35	674.07
10/14/2009	10.40	676.02
1/18/2010	8.90	677.52
4/8/2010	10.90	675.52
7/12/2010	14.00	672.42
10/11/2010	16.69	669.73
1/12/2011	16.35	670.07
4/4/2011	17.67	668.75
7/25/2011	2.32	684.10
10/3/2011	2.98	683.44
1/12/2012	13.26	673.16
4/2/2012	13.10	673.32
7/6/2012	9.66	676.76
10/11/2012	18.60	667.82
1/21/2013	17.04	669.38
4/1/2013	18.65	667.77
7/1/2013	19.10	667.32
10/9/2013	10.10	676.32
1/21/2014	NM*	NA
4/7/2014	18.85	667.57

NOTES:

ft MSL - feet mean sea level

NA - Not Available

NM - Not Measured

TOC - top of PVC casing

TOC Elevation - 686.64

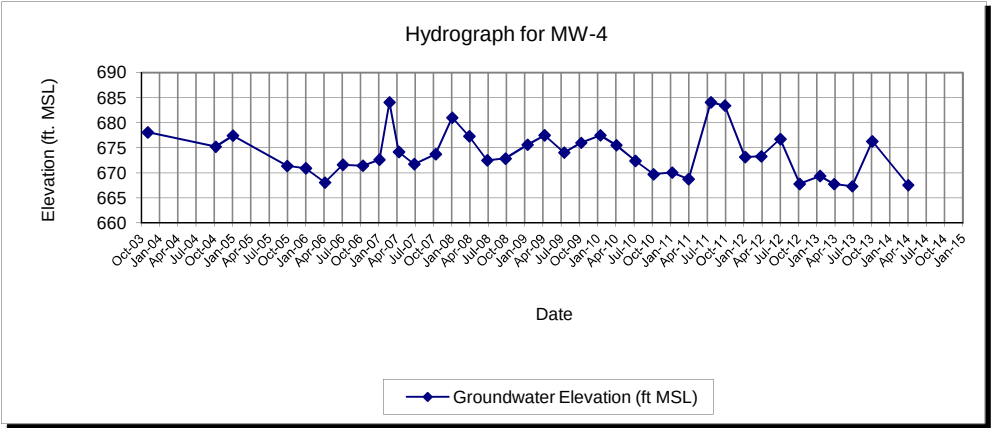
DPE and GWCT down on 2/28/07

DPE down on 1/8/08 and 10/9/13

TOC Elevation as of 6/13/08 - 686.42

NM* - Well could not be accessed due to snow cover

MONITORING WELL MW-4
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York



MONITORING WELL MW-6
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York

Date	Depth to Water from TOC (ft)	Groundwater Elevation (ft MSL)
11/7/2003	11.06	675.62
4/8/2004	NM	NA
10/12/2004	9.95	676.73
1/6/2005	13.00	673.68
4/14/2005	11.57	675.11
7/20/2005	12.88	673.80
10/4/2005	8.55	678.13
1/5/2006	12.11	674.57
4/11/2006	11.91	674.77
7/10/2006	12.5	674.18
10/18/2006	11.02	675.66
1/9/2007	11.1	675.58
2/28/2007	4.35	682.33
4/16/2007	11.81	674.87
7/2/2007	12.85	673.83
10/17/2007	13.09	673.59
1/8/2008	7.02	679.66
4/2/2008	11.00	675.68
7/1/2008	10.98	675.55
9/30/2008	11.39	675.14
1/19/2009	9.68	676.85
4/14/2009	10.02	676.51
7/21/2009	11.50	675.03
10/14/2009	10.35	676.18
1/18/2010	11.20	675.33
4/8/2010	10.05	676.48
7/12/2010	9.25	677.28
10/11/2010	9.91	676.62
1/12/2011	10.56	675.97
4/4/2011	10.27	676.26
7/25/2011	4.17	682.36
10/3/2011	3.45	683.08
1/12/2012	9.86	676.67
4/2/2012	9.39	677.14
7/5/2012	7.64	678.89
10/11/2012	10.80	675.73
1/21/2013	10.12	676.41
4/1/2013	8.41	678.12
7/1/2013	11.18	675.35
10/9/2013	9.32	677.21
1/21/2014	9.95	676.58
4/7/2014	10.75	675.78

NOTES:

ft MSL - feet mean sea level

NA - Not Available

NM - Not Measured

TOC - top of PVC casing

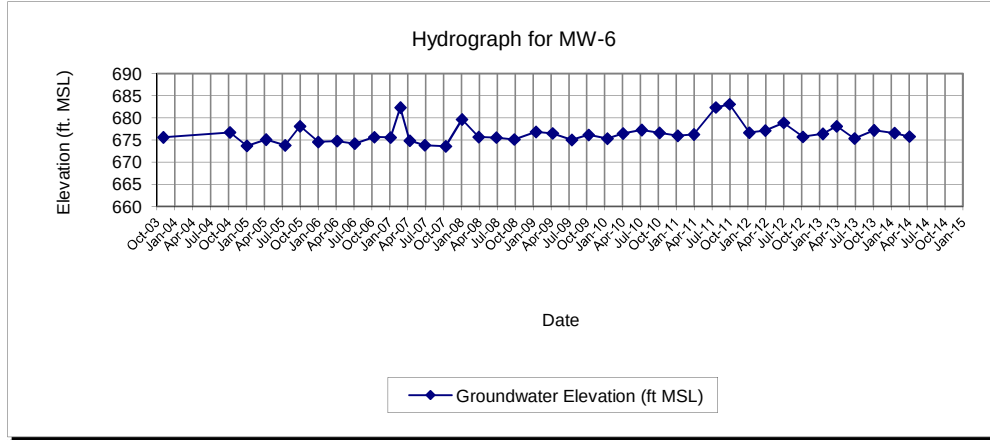
TOC Elevation - 686.68

DPE and GWCT down on 2/28/07

DPE down on 1/8/08 and 10/9/13

TOC Elevation as of 6/13/08 - 686.53

MONITORING WELL MW-6
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York



MONITORING WELL MW-8R
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York

Date	Depth to Water from TOC (ft)	Groundwater Elevation (ft MSL)
4/8/2004	NM	NA
10/12/2004	12.75	672.92
1/6/2005	7.45	678.22
4/14/2005	14.45	671.22
7/20/2005	NM	NA
10/4/2005	NM	NA
1/6/2006	15.51	670.16
4/11/2006	15.65	670.02
7/10/2006	14.9	670.77
10/18/2006	15.72	669.95
1/9/2007	15.76	669.91
2/28/2007	10.78	674.89
4/16/2007	15.60	670.07
7/2/2007	16.29	669.38
10/15/2007	18.50	667.17
1/8/2008	4.99	680.68
4/2/2008	13.19	672.48
7/1/2008	12.15	674.06
9/30/2008	15.83	670.38
1/19/2009	11.55	674.66
4/14/2009	11.20	675.01
7/21/2009	13.57	672.64
10/14/2009	12.76	673.45
1/18/2010	11.26	674.95
4/8/2010	14.95	671.26
7/12/2010	13.74	672.47
10/11/2010	12.34	673.87
1/12/2011	13.10	673.11
4/4/2011	14.88	671.33
7/25/2011	3.25	682.96
10/3/2011	4.50	681.71
1/12/2012	12.96	673.25
4/2/2012	11.70	674.51
7/5/2012	10.34	675.87
10/11/2012	13.38	672.83
1/21/2013	14.90	671.31
4/1/2013	10.82	675.39
7/1/2013	12.70	673.51
10/9/2013	9.25	676.96
1/21/2014	NM*	NA
4/7/2014	14.55	671.66

NOTES:

ft MSL - feet mean sea level

NA - Not Available

NM - Not Measured

TOC - top of PVC casing

TOC Elevation - 685.67

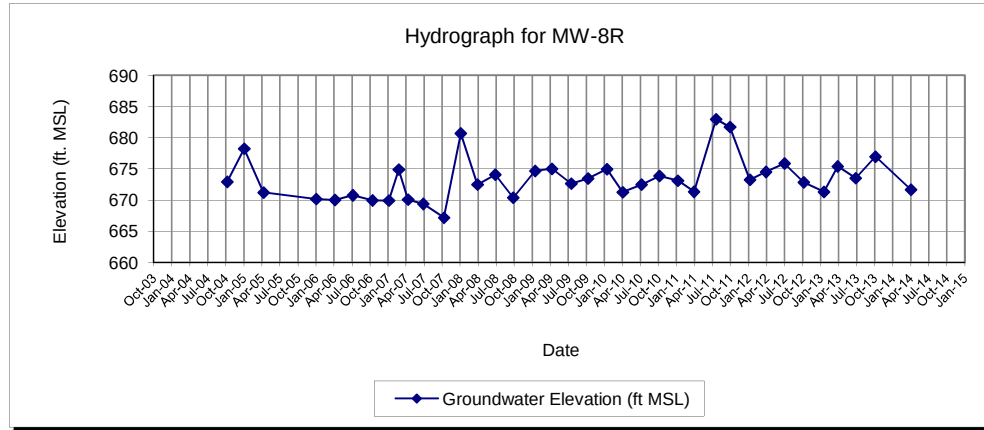
DPE and GWCT down on 2/28/07

DPE down on 1/8/08 and 10/9/13

TOC Elevation as of 6/13/08 - 686.21

NM* - Well could not be accessed due to snow cover

MONITORING WELL MW-8R
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York



MONITORING WELL MW-9
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York

Date	Depth to Water from TOC (ft)	Groundwater Elevation (ft MSL)
11/7/2003	13.03	672.4
4/8/2004	NM	NA
10/12/2004	13.68	671.75
1/6/2005	12.89	672.54
4/14/2005	12.74	672.69
7/20/2005	13.88	671.55
10/4/2005	7.22	678.21
1/5/2006	12.79	672.64
4/11/2006	13.50	671.93
7/10/2006	13.24	672.19
10/18/2006	11.00	674.43
1/9/2007	12.24	673.19
2/28/2007	1.66	683.77
4/16/2007	13.15	672.28
7/2/2007	13.00	672.43
10/17/2007	13.95	671.48
1/8/2008	6.70	678.73
4/2/2008	10.61	674.82
7/1/2008	14.25	674.39
9/30/2008	15.67	672.97
1/19/2009	14.48	674.16
4/14/2009	15.48	673.16
7/21/2009	15.20	673.44
10/10/2009	15.06	673.58
1/18/2010	17.00	671.64
4/8/2010	15.40	673.24
7/12/2010	12.42	676.22
10/11/2010	14.21	674.43
1/12/2011	15.29	673.35
4/4/2011	14.55	674.09
7/25/2011	5.75	682.89
10/3/2011	4.58	684.06
1/12/2012	14.75	673.89
4/2/2012	14.52	674.12
7/5/2012	11.48	677.16
10/11/2012	12.66	675.98
1/21/2013	14.44	674.20
4/1/2013	11.87	676.77
7/1/2013	16.54	672.10
10/9/2013	13.68	674.96
1/21/2014	15.38	673.26
4/7/2014	16.30	672.34

NOTES:

ft MSL - feet mean sea level

NA - Not Available

NM - Not Measured

TOC - top of PVC casing

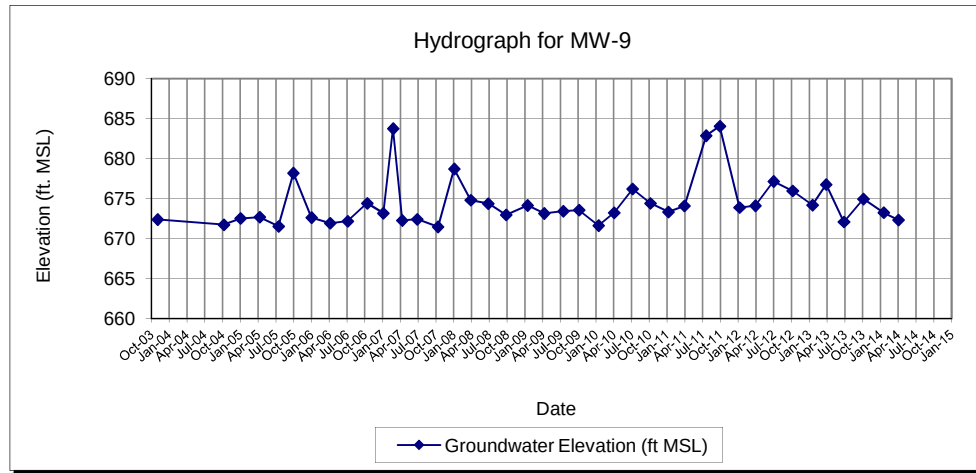
TOC Elevation - 685.43

DPE and GWCT down on 2/28/07

DPE down on 1/8/08 and 10/9/13

TOC Elevation as of 6/13/08 - 688.64

MONITORING WELL MW-9
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York



MONITORING WELL MW-10
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York

Date	Depth to Water from TOC (ft)	Groundwater Elevation (ft MSL)
11/7/2003	10.75	676.97
4/8/2004	NM	NA
10/12/2004	NM	NA
1/6/2005	10.28	677.44
4/14/2005	11.50	676.22
7/20/2005	12.43	675.29
10/4/2005	9.58	678.14
1/5/2006	11.28	676.44
4/11/2006	10.91	676.81
7/10/2006	10.90	676.82
10/18/2006	10.13	677.59
1/9/2007	10.21	677.51
2/28/2007	4.30	683.42
4/16/2007	10.93	676.79
7/2/2007	12.21	675.51
10/17/2007	13.15	674.57
1/8/2008	7.03	680.69
4/2/2008	9.91	677.81
7/1/2008	10.04	677.37
9/30/2008	11.05	676.36
1/19/2009	9.74	677.67
4/14/2009	9.14	678.27
7/21/2009	10.56	676.85
10/14/2009	9.37	678.04
1/18/2010	10.59	676.82
4/8/2010	9.35	678.06
7/12/2010	9.12	678.29
10/11/2010	10.20	677.21
1/12/2011	10.00	677.41
4/4/2011	9.61	677.80
7/25/2011	4.45	682.96
10/3/2011	4.25	683.16
1/12/2012	9.82	677.59
4/2/2012	8.51	678.90
7/5/2012	7.55	679.86
10/11/2012	10.65	676.76
1/21/2013	9.59	677.82
4/1/2013	8.30	679.11
7/1/2013	9.77	677.64
10/9/2013	8.65	678.76
1/21/2014	8.73	678.68
4/7/2014	9.25	678.16

NOTES:

ft MSL - feet mean sea level

NA - Not Available

NM - Not Measured

TOC - top of PVC casing

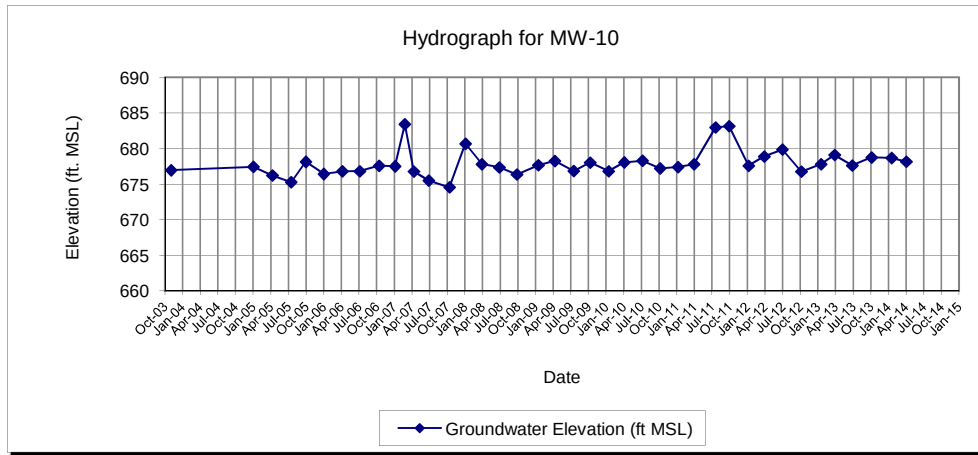
TOC Elevation - 687.72

DPE and GWCT down on 2/28/07

DPE down on 1/8/08 and 10/9/13

TOC Elevation as of 6/13/08 - 687.41

MONITORING WELL MW-10
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York



MONITORING WELL MW-11
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York

Date	Depth to Water from TOC (ft)	Groundwater Elevation (ft MSL)
4/8/2004	NM	NA
10/12/2004	NM	NA
1/6/2005	15.59	673.02
4/14/2005	11.59	677.02
7/20/2005	17.34	671.27
10/4/2005	10.45	678.16
1/5/2006	16.58	672.03
4/11/2006	13.52	675.09
7/10/2006	13.75	674.86
10/18/2006	14.35	674.26
1/9/2007	15.26	673.35
2/28/2007	6.34	682.27
4/16/2007	11.55	677.06
7/2/2007	17.30	671.31
10/16/2007	17.69	670.92
1/8/2008	11.73	676.88
4/2/2008	14.78	673.83
7/1/2008	13.91	674.74
9/30/2008	15.25	673.40
1/19/2009	13.45	675.20
4/14/2009	13.50	675.15
7/21/2009	14.51	674.14
10/14/2009	13.85	674.80
1/18/2010	16.38	672.27
4/8/2010	13.90	674.75
7/12/2010	12.60	676.05
10/11/2010	14.80	673.85
1/12/2011	NA	
4/4/2011	14.52	674.13
7/25/2011	4.48	684.17
10/3/2011	4.05	684.60
1/12/2012	8.96	679.69
4/2/2012	12.87	675.78
7/5/2012	10.53	678.12
10/11/2012	14.40	674.25
1/21/2013	14.75	673.90
4/1/2013	11.66	676.99
7/1/2013	14.99	673.66
10/9/2013	12.25	676.40
1/21/2014	13.75	674.90
4/7/2014	14.56	674.09

NOTES:

ft MSL - feet mean sea level

NA - Not Available

NM - Not Measured

TOC - top of PVC casing

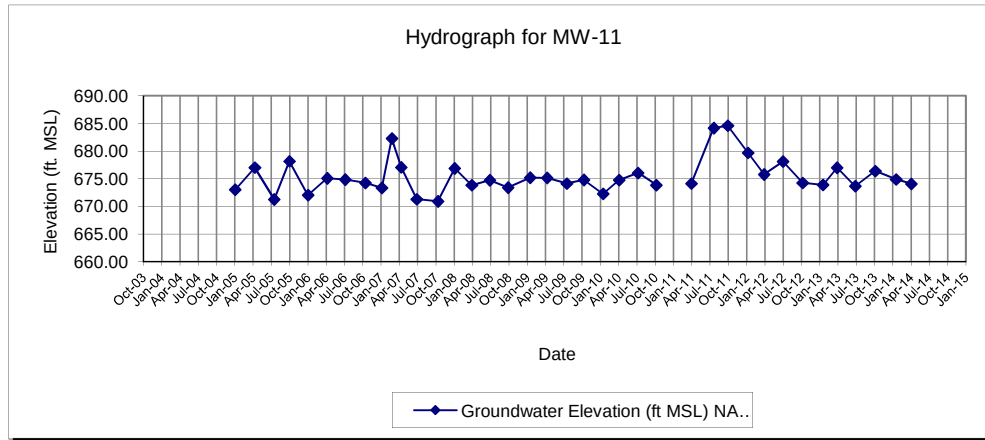
TOC Elevation - 688.61

DPE and GWCT down on 2/28/07

DPE down on 1/8/08 and 10/9/13

TOC Elevation as of 6/13/08 - 688.65

MONITORING WELL MW-11
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York



MONITORING WELL MW-12
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York

Date	Depth to Water from TOC (ft)	Groundwater Elevation (ft MSL)
4/8/2004	NM	
10/12/2004	10.64	675.15
1/6/2005	6.18	679.61
4/14/2005	6.80	678.99
7/20/2005	11.95	673.84
10/4/2005	7.36	678.43
1/5/2006	6.80	678.99
4/11/2006	6.76	679.03
7/10/2006	11.35	674.44
10/18/2006	NM*	NA
1/9/2007	6.35	679.44
2/28/2007	NM*	NA
4/16/2007	7.38	678.41
7/2/2007	11.42	674.37
10/15/2007	12.00	673.79
1/8/2008	4.31	681.48
4/2/2008	5.86	679.93
7/1/2008	7.10	679.04
9/30/2008	10.92	675.22
1/19/2009	NM*	NA
4/14/2009	7.14	679
7/21/2009	9.66	676.48
10/14/2009	8.83	677.31
1/18/2010	7.40	678.74
4/8/2010	7.10	679.04
7/12/2010	8.48	677.66
10/11/2010	8.64	677.51
1/12/2011	6.32	679.83
4/4/2011	5.69	680.46
7/25/2011	3.5	682.65
10/3/2011	2.67	683.48
1/12/2012	5.41	680.74
4/2/2012	5.30	680.85
7/5/2012	7.20	678.95
10/11/2012	6.75	679.40
1/21/2013	5.51	680.64
4/1/2013	5.07	681.08
7/1/2013	7.88	678.27
10/9/2013	5.20	680.95
1/21/2014	NM*	NA
4/7/2014	5.76	680.39

NOTES:

ft MSL - feet mean sea level

NA - Not Available

NM - Not Measured

TOC - top of PVC casing

TOC Elevation - 685.79

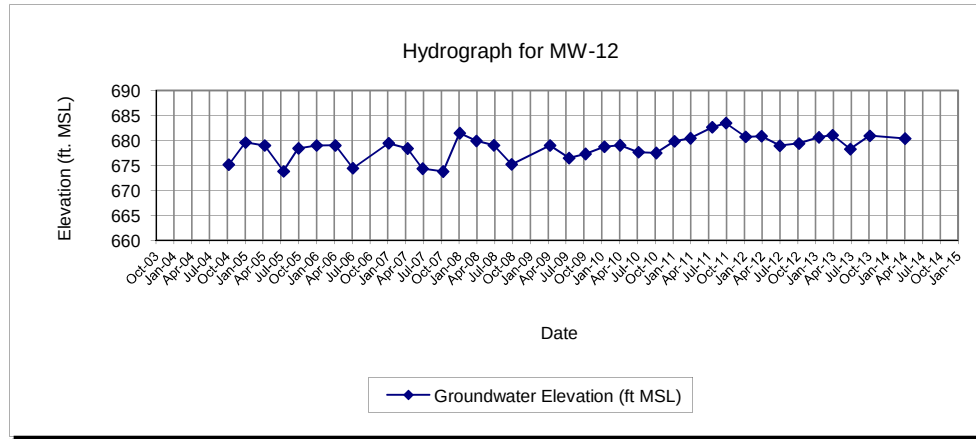
NM* - Well could not be accessed due to snow cover

DPE and GWCT down on 2/28/07

DPE down on 1/8/08 and 10/9/13

TOC Elevation as of 6/13/08 - 686.15

MONITORING WELL MW-12
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York



MONITORING WELL MW-13S
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York

Date	Depth to Water from TOC (ft)	Groundwater Elevation (ft MSL)
4/8/2004	7.01	679.56
10/12/2004	13.47	673.10
1/6/2005	7.24	679.33
4/14/2005	13.91	672.66
7/20/2005	12.81	673.76
10/4/2005	13.35	673.22
1/5/2006	13.79	672.78
4/11/2006	12.45	674.12
7/10/2006	13.02	673.55
10/18/2006	10.99	675.58
1/9/2007	11.35	675.22
2/28/2007	3.49	683.08
4/16/2007	12.01	674.56
7/2/2007	13.20	673.37
10/18/2007	12.77	673.80
1/8/2008	5.08	681.49
4/2/2008	5.45	681.12
7/1/2008	9.70	676.90
9/30/2008	11.80	674.80
1/19/2009	8.70	677.90
4/14/2009	8.64	677.96
7/21/2009	10.91	675.69
10/14/2009	9.18	677.42
1/18/2010	9.80	676.80
4/8/2010	8.30	678.30
7/12/2010	9.96	676.64
10/11/2010	10.29	676.31
1/12/2011	7.53	679.07
4/4/2011	8.00	678.60
7/25/2011	2.55	684.05
10/3/2011	1.81	684.79
1/12/2012	8.11	678.49
4/2/2012	8.06	678.54
7/5/2012	8.71	677.89
10/11/2012	9.57	677.03
1/21/2013	13.85	672.75
4/1/2013	6.44	680.16
7/1/2013	6.44	680.16
10/9/2013	4.10	682.50
1/21/2014	4.95	681.65
4/7/2014	6.02	680.58

NOTES:

ft MSL - feet mean sea level

NA - Not Available

NM - Not Measured

TOC - top of PVC casing

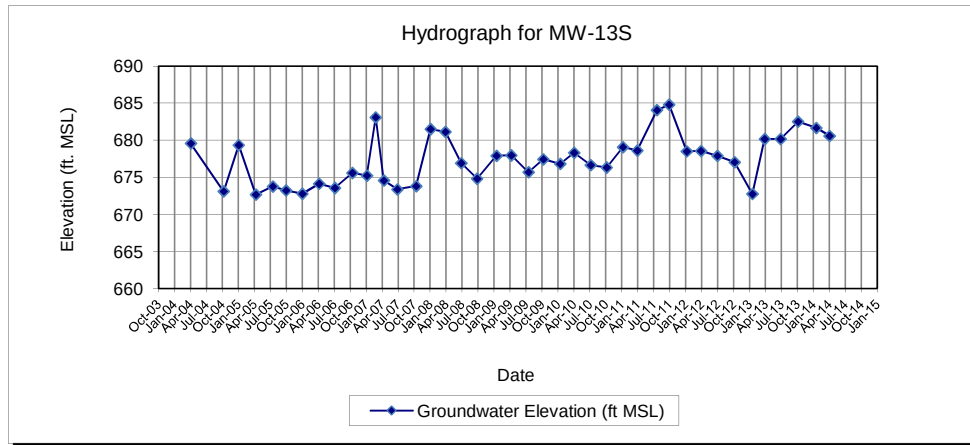
TOC Elevation - 686.57

DPE and GWCT down on 2/28/07

DPE down on 1/8/08 and 10/9/13

TOC Elevation as of 6/13/08 - 686.60

MONITORING WELL MW-13S
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York



MONITORING WELL MW-13D
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York

Date	Depth to Water from TOC (ft)	Groundwater Elevation (ft MSL)
4/8/2004	13.28	673.43
10/12/2004	14.87	671.84
1/6/2005	14.55	672.16
4/14/2005	15.32	671.39
7/20/2005	15.65	671.06
10/4/2005	9.44	677.27
1/5/2006	15.83	670.88
4/11/2006	15.41	671.30
7/10/2006	13.79	672.92
10/18/2006	13.17	673.54
1/9/2007	14.41	672.30
2/28/2007	3.28	683.43
4/16/2007	14.66	672.05
7/2/2007	15.68	671.03
10/18/2007	15.80	670.91
1/8/2008	8.69	678.02
4/2/2008	12.86	673.85
7/1/2008	12.55	674.18
9/30/2008	13.89	672.84
1/19/2009	12.10	674.63
4/14/2009	11.78	674.95
7/21/2009	12.86	673.87
10/14/2009	11.59	675.14
1/18/2010	13.88	672.85
4/8/2010	12.00	674.73
7/12/2010	11.90	674.83
10/11/2010	13.34	673.39
1/12/2011	13.2	673.53
4/4/2011	13.13	673.60
7/25/2011	3.33	683.40
10/3/2011	2.55	684.18
1/12/2012	12.34	674.39
4/2/2012	11.76	674.97
7/5/2012	9.25	677.48
10/11/2012	13.00	673.73
1/21/2013	13.85	672.88
4/1/2013	11.01	675.72
7/1/2013	14.26	672.47
10/9/2013	10.36	676.37
1/21/2014	11.45	675.28
4/7/2014	13.65	673.08

NOTES:

ft MSL - feet mean sea level

NA - Not Available

NM - Not Measured

TOC - top of PVC casing

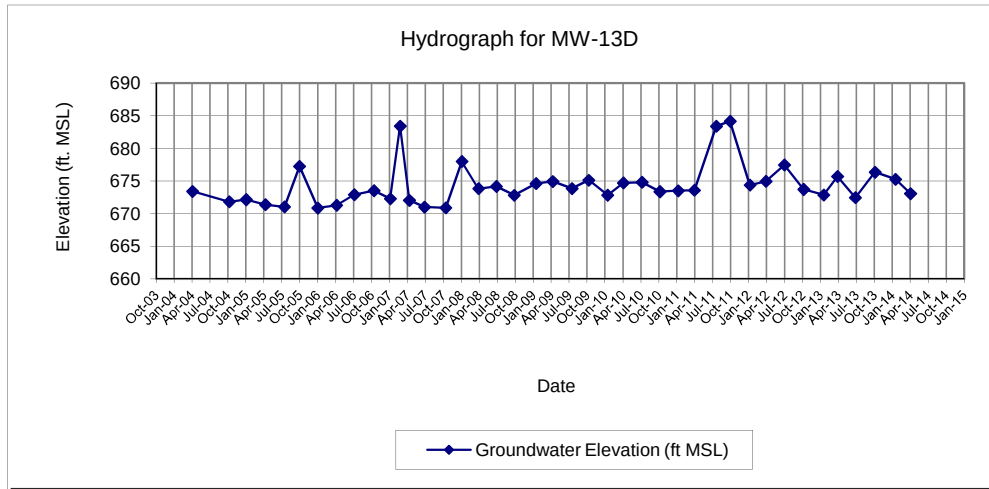
TOC Elevation - 686.71

DPE and GWCT down on 2/28/07

DPE down on 1/8/08 and 10/9/13

TOC Elevation as of 6/13/08 - 686.73

MONITORING WELL MW-13D
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York



MONITORING WELL MW-14S
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York

Date	Depth to Water from TOC (ft)	Groundwater Elevation (ft MSL)
4/8/2004	5.14	680.17
10/12/2004	8.57	676.74
1/6/2005	6.27	679.04
4/14/2005	5.16	680.15
7/20/2005	8.32	676.99
10/4/2005	6.14	679.17
1/5/2006	8.41	676.90
4/11/2006	7.75	677.56
7/10/2006	8.18	677.13
10/18/2006	9.00	676.31
1/9/2007	6.61	678.70
2/28/2007	1.50	683.81
4/16/2007	3.45	681.86
7/2/2007	8.36	676.95
10/15/2007	9.45	675.86
1/8/2008	4.65	680.66
4/2/2008	4.47	680.84
7/1/2008	6.37	679.33
9/30/2008	8.90	676.80
1/19/2009	6.15	679.55
4/14/2009	7.70	678.00
7/21/2009	7.25	678.45
10/14/2009	7.05	678.65
1/18/2010	NM	
4/8/2010	6.50	678.81
7/12/2010	6.54	678.77
10/11/2010	5.90	679.80
1/12/2011	6.83	678.87
4/4/2011	6.34	679.36
7/25/2011	2.59	683.11
10/3/2011	1.98	683.72
1/12/2012	5.10	680.60
4/2/2012	4.55	681.15
7/5/2012	7.15	678.55
10/11/2012	6.67	679.03
1/21/2013	5.15	680.55
4/1/2013	5.05	680.65
7/1/2013	6.81	678.89
10/9/2013	5.60	680.10
1/21/2014	5.68	680.02
4/7/2014	6.03	679.67

NOTES:

ft MSL - feet mean sea level

NA - Not Available

NM - Not Measured

TOC - top of PVC casing

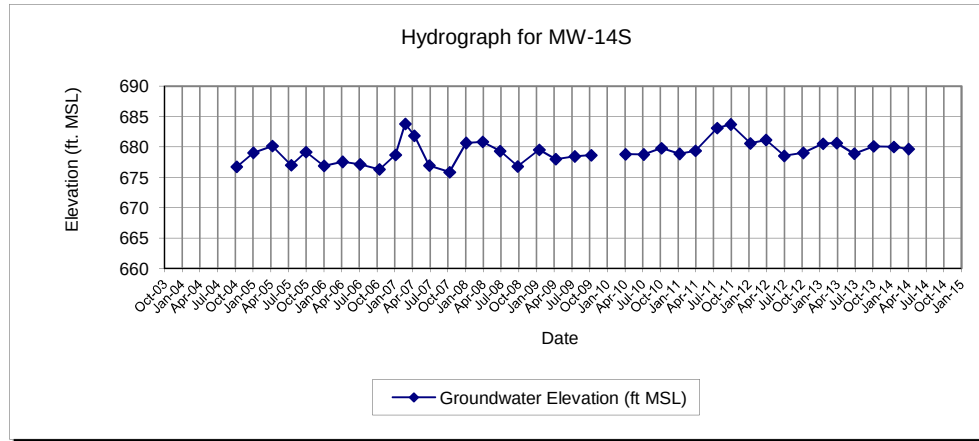
TOC Elevation - 685.31

DPE and GWCT down on 2/28/07

DPE down on 1/8/08 and 10/9/13

TOC Elevation as of 6/13/08 - 685.70

MONITORING WELL MW-14S
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York



MONITORING WELL MW-14D
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York

Date	Depth to Water from TOC (ft)	Groundwater Elevation (ft MSL)
4/8/2004	13.21	672.22
10/12/2004	14.55	670.88
1/6/2005	15.97	669.46
4/14/2005	13.25	672.18
7/20/2005	18.20	667.23
10/4/2005	13.26	672.17
1/5/2006	19.08	666.35
4/11/2006	19.79	665.64
7/10/2006	17.16	668.27
10/18/2006	19.44	665.99
1/9/2007	14.71	670.72
2/28/2007	2.67	682.76
4/16/2007	19.74	665.69
7/2/2007	19.68	665.75
10/15/2007	19.76	665.67
1/8/2008	7.92	677.51
4/2/2008	14.41	671.02
7/1/2008	14.45	671.37
9/30/2008	15.39	670.43
1/19/2009	13.55	672.27
4/14/2009	20.10	665.72
7/21/2009	15.15	670.67
10/14/2009	20.27	665.55
1/18/2010	20.40	665.42
4/8/2010	15.40	670.42
7/12/2010	17.15	668.67
10/11/2010	14.40	671.42
1/12/2011	17.92	667.90
4/4/2011	16.23	669.59
7/25/2011	3.10	682.72
10/3/2011	2.72	683.10
1/12/2012	15.30	670.52
4/2/2012	16.50	669.32
7/5/2012	12.81	673.01
10/11/2012	14.55	671.27
1/21/2013	13.45	672.37
4/1/2013	10.78	675.04
7/1/2013	19.85	665.97
10/9/2013	10.02	675.80
1/21/2014	18.20	667.62
4/7/2014	17.95	667.87

NOTES:

ft MSL - feet mean sea level

NA - Not Available

NM - Not Measured

TOC - top of PVC casing

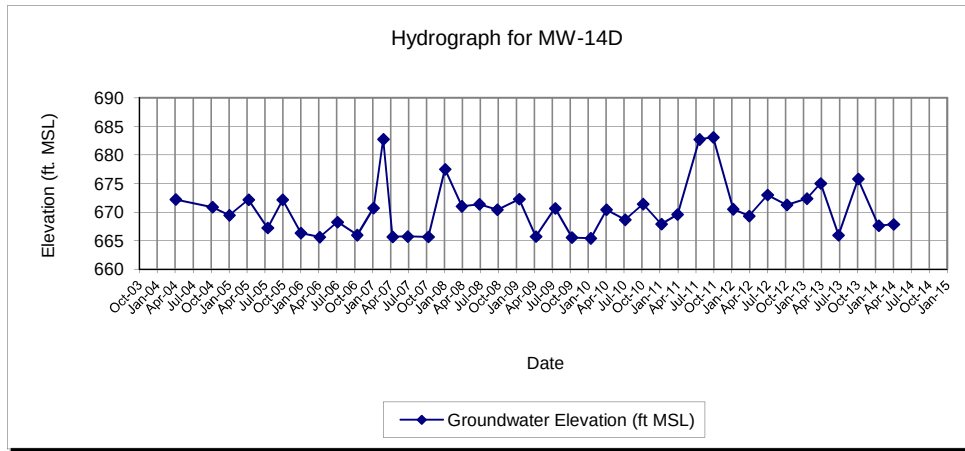
TOC Elevation - 685.43

DPE and GWCT down on 2/28/07

DPE down on 1/8/08 and 10/9/13

TOC Elevation as of 6/13/08 - 685.82

MONITORING WELL MW-14D
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York



MONITORING WELL MW-15S
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York

Date	Depth to Water from TOC (ft)	Groundwater Elevation (ft MSL)
4/8/2004	1.20	685.44
10/12/2004	5.26	681.38
1/6/2005	0.35	686.29
4/14/2005	2.31	684.33
7/20/2005	4.78	681.86
10/4/2005	2.22	684.42
1/5/2006	0.70	685.94
4/11/2006	2.00	684.64
7/10/2006	4.75	681.89
1/9/2007	0.05	686.59
2/28/2007	0.00	686.64
4/16/2007	0.50	686.14
7/2/2007	4.67	681.97
10/16/2007	4.80	681.84
1/8/2008	0.70	685.94
4/2/2008	0.00	686.64
7/1/2008	0.50	687.02
9/30/2008	3.14	684.38
1/19/2009	1.50	686.02
4/14/2009	1.60	685.92
7/21/2009	1.11	686.41
10/14/2009	1.11	686.41
1/18/2010	0.80	686.72
4/8/2010	2.00	685.52
7/12/2010	2.80	684.72
10/11/2010	3.14	684.38
1/12/2011	1.40	686.12
4/4/2011	0.50	687.02
7/25/2011	2.51	685.01
10/3/2011	0.20	687.32
1/12/2012	0.50	687.02
4/2/2012	1.40	686.12
7/5/2012	3.90	683.62
10/1/2012	3.18	684.34
1/21/2013	0.00	687.52
4/1/2013	0.50	687.02
7/1/2013	1.73	685.79
10/9/2013	2.10	685.42
1/21/2014	1.75	685.77
4/7/2014	0.90	686.62

NOTES:

ft MSL - feet mean sea level

NA - Not Available

NM - Not Measured

TOC - top of PVC casing

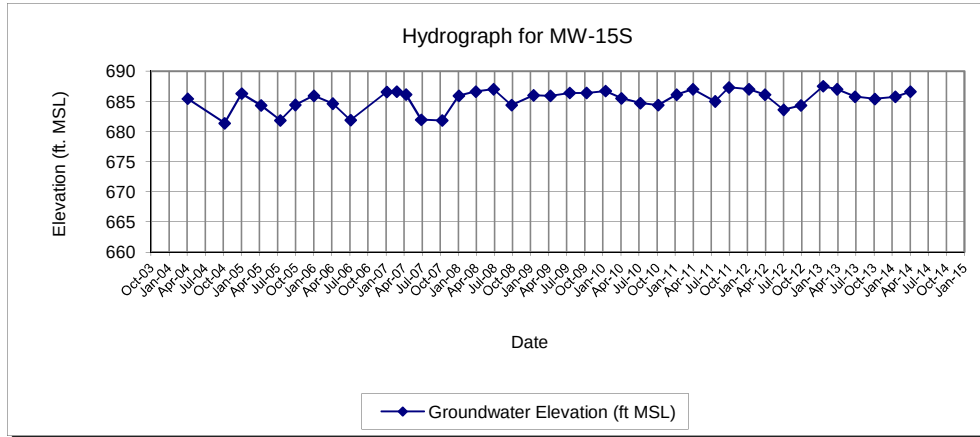
TOC Elevation - 686.64'

DPE and GWCT down on 2/28/07

DPE down on 1/8/08 and 10/9/13

TOC Elevation as of 6/13/08 - 687.52'

MONITORING WELL MW-15S
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York



MONITORING WELL MW-15D
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York

Date	Depth to Water from TOC (ft)	Groundwater Elevation (ft MSL)
4/8/2004	15.70	671.61
10/12/2004	17.42	669.89
1/6/2005	15.74	671.57
4/14/2005	16.99	670.32
7/20/2005	17.31	670.00
10/4/2005	8.94	678.37
1/5/2006	16.16	671.15
4/11/2006	16.90	670.41
7/10/2006	15.78	671.53
10/18/2006	15.50	671.81
1/9/2007	15.80	671.51
2/28/2007	4.10	683.21
4/16/2007	16.61	670.70
7/2/2007	17.20	670.11
10/16/2007	16.70	670.61
1/8/2008	8.99	678.32
4/2/2008	15.01	672.30
7/1/2008	14.64	672.98
9/30/2008	16.24	671.38
1/19/2009	15.00	672.62
4/14/2009	14.21	673.41
7/21/2009	14.61	673.01
10/14/2009	14.81	672.81
1/18/2010	16.89	670.73
4/8/2010	15.00	672.62
7/12/2010	13.00	674.62
10/11/2010	13.00	674.62
1/12/2011	15.65	671.97
4/4/2011	15.51	672.11
7/25/2011	3.73	683.89
10/3/2011	3.05	684.57
1/12/2012	15.50	672.12
4/2/2012	14.30	673.32
7/5/2012	9.81	677.81
10/11/2012	13.70	673.92
1/21/2013	15.90	671.72
4/1/2013	11.08	676.54
7/1/2013	16.04	671.58
10/9/2013	13.95	673.67
1/21/2014	15.05	672.57
4/7/2014	15.84	671.78

NOTES:

ft MSL - feet mean sea level

NA - Not Available

NM - Not Measured

TOC - top of PVC casing

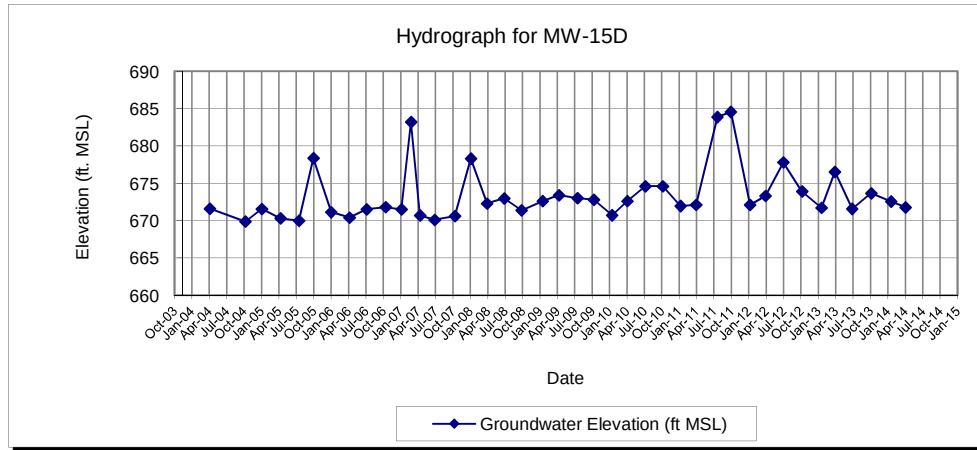
TOC Elevation - 687.31'

DPE and GWCT down on 2/28/07

DPE down on 1/8/08 and 10/9/13

TOC Elevation as of 6/13/08 - 687.62'

MONITORING WELL MW-15D
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York



MONITORING WELL MW-16S
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York

Date	Depth to Water from TOC (ft)	Groundwater Elevation (ft MSL)
4/8/2004	5.09	680.75
10/12/2004	12.09	673.75
1/6/2005	4.75	681.09
4/14/2005	10.15	675.69
7/20/2005	14.56	671.28
10/4/2005	11.50	674.34
1/5/2006	11.41	674.43
4/11/2006	12.90	672.94
7/10/2006	11.54	674.30
10/18/2006	12.50	673.34
1/9/2007	13.82	672.02
2/28/2007	2.90	682.94
4/16/2007	13.07	672.77
7/2/2007	12.50	673.34
10/18/2007	15.23	670.61
1/8/2008	5.60	680.24
4/2/2008	12.40	673.44
7/1/2008	15.70	674.67
9/30/2008	19.34	671.03
1/19/2009	17.80	672.57
4/14/2009	18.22	672.15
7/21/2009	19.95	670.42
10/14/2009	17.77	672.60
1/18/2010	16.45	673.92
4/8/2010	18.60	671.77
7/12/2010	18.45	671.92
10/11/2010	13.51	676.86
1/12/2011	NA	
4/7/2011	8.55	677.29
7/25/2011	1.45	684.39
10/3/2011	0.60	685.24
1/12/2012	3.80	682.04
4/2/2012	5.85	679.99
7/5/2012	9.12	676.72
10/11/2012	6.36	679.48
1/21/2013	7.85	677.99
4/1/2013	10.15	675.69
7/1/2013	9.18	676.66
10/9/2013	3.80	682.04
1/21/2014	9.55	676.29
4/7/2014	9.60	676.24

NOTES:

ft MSL - feet mean sea level

NA - Not Available

NM - Not Measured

TOC - top of PVC casing

TOC Elevation - 685.84'

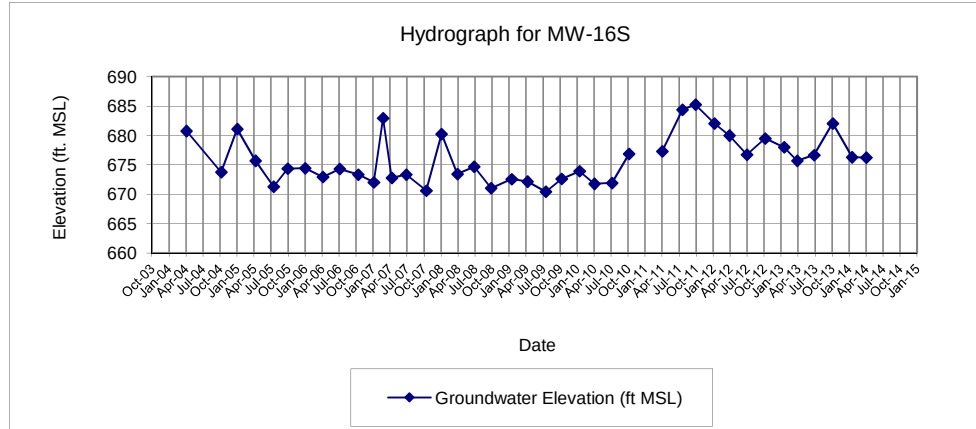
DPE and GWCT down on 2/28/07

DPE down on 1/8/08 and 10/9/13

TOC Elevation as of 6/13/08 - 690.37'

TOC Elevation as of 4/7/2011 - 685.84'

MONITORING WELL MW-16S
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York



MONITORING WELL MW-16D
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York

Date	Depth to Water from TOC (ft)	Groundwater Elevation (ft MSL)
4/8/2004	13.62	672.39
10/12/2004	15.51	670.50
1/6/2005	13.70	672.31
4/14/2005	16.09	669.92
7/20/2005	16.65	669.36
10/4/2005	9.89	676.12
1/5/2006	17.21	668.80
4/11/2006	17.1	668.91
7/10/2006	10.61	675.4
10/18/2006	15.41	670.6
1/9/2007	15.6	670.41
2/28/2007	2.74	683.27
4/16/2007	16.35	669.66
7/2/2007	16.85	669.16
10/18/2007	17.17	668.84
1/8/2008	8.32	677.69
4/2/2008	13.44	672.57
7/1/2008	17.72	672.83
9/30/2008	19.29	671.26
1/19/2009	17.95	672.60
4/14/2009	17.21	673.34
7/21/2009	18.28	672.27
10/14/2009	17.60	672.95
1/18/2010	19.51	671.04
4/8/2010	17.19	673.36
7/12/2010	17.15	673.40
10/11/2010	18.63	671.92
1/12/2011	NA	
4/7/2011	13.67	672.34
7/25/2011	2.46	683.55
10/3/2011	1.70	684.31
1/12/2012	13.55	672.46
4/2/2012	12.61	673.40
7/5/2012	8.90	677.11
10/11/2012	13.38	672.63
1/21/2013	15.44	670.57
4/1/2013	12.31	673.70
7/1/2013	16.25	669.76
10/9/2013	11.40	674.61
1/21/2014	13.35	672.66
4/7/2014	15.54	670.47

NOTES:

ft MSL - feet mean sea level

NA - Not Available

NM - Not Measured

TOC - top of PVC casing

TOC Elevation - 686.01'

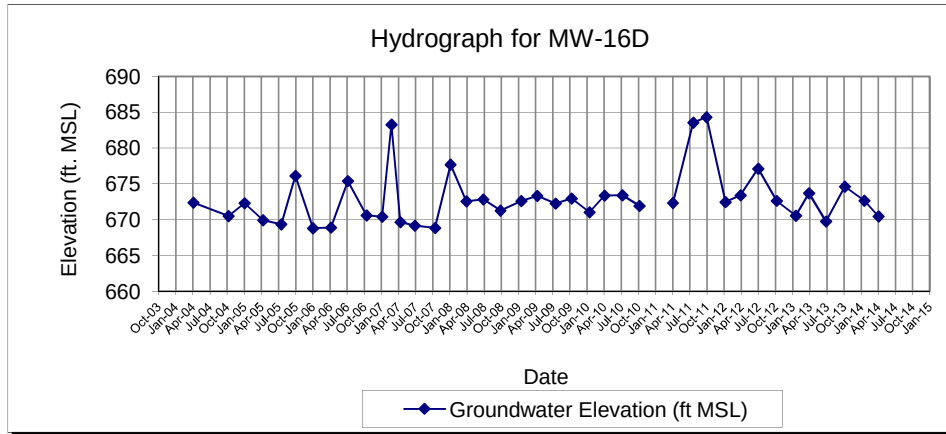
DPE and GWCT down on 2/28/07

DPE down on 1/8/08 and 10/9/13

TOC Elevation as of 6/13/08 - 690.55'

TOC Elevation as of 4/7/2011 - 686.01'

MONITORING WELL MW-16D
SUMMARY OF GROUNDWATER ELEVATIONS
Former Scott Aviation Site
Lancaster, New York



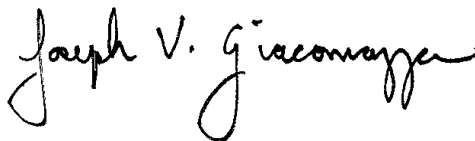
Appendix D
Analytical Laboratory Data Packages
(Provided on CD)

ANALYTICAL REPORT

Job Number: 480-57666-1

Job Description: Scott Aviation site

For:
AECOM, Inc.
100 Corporate Parkway
Suite 341
Amherst, NY 14226
Attention: Mr. Dino Zack



Approved for release.
Joe V Giacomazza
Project Management Assistant II
4/15/2014 4:34 PM

Designee for
Brian J Fischer, Manager of Project Management
10 Hazelwood Drive, Amherst, NY, 14228-2298
(716)504-9835
brian.fischer@testamericainc.com
04/15/2014

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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Job Narrative
480-57666-1

Receipt

The samples were received on 4/10/2014 1:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

GC/MS VOA

Method(s) 8260C: The large number of analytes included in the continuing calibration verification (CCV) in batch 175447 gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes are outside the method-defined %D criteria.

Method(s) 8260C: The following sample(s) was diluted to bring the concentration of target analytes within the calibration range: MW-15D (480-57666-18), MW-15S (480-57666-17), MW-4 (480-57666-15), MW-8R (480-57666-16). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: Duplicate (480-57666-8), MW-13S (480-57666-10), MW-16D (480-57666-20), MW-16S (480-57666-19). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The large number of analytes included in the continuing calibration verification (CCV) for 175488 gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes are outside the method-defined %D criteria.

No other analytical or quality issues were noted.

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Instrument ID: HP5973G Analysis Batch Number: 175447Lab Sample ID: CCVIS 480-175447/3 Client Sample ID: _____Date Analyzed: 04/12/14 09:28 Lab File ID: G29193.D GC Column: ZB-624 (60) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Allyl chloride	3.22	Split Peak	larsonr	04/12/14 11:34

Lab Sample ID: 480-57666-1 Client Sample ID: MW-2Date Analyzed: 04/12/14 12:01 Lab File ID: G29198.D GC Column: ZB-624 (60) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toluene	7.19	Poor chromatography	goliszekg	04/14/14 00:12

Lab Sample ID: 480-57666-14 Client Sample ID: MW-14SDate Analyzed: 04/12/14 16:58 Lab File ID: G29211.D GC Column: ZB-624 (60) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene	2.90	Poor chromatography	goliszekg	04/14/14 00:16

Lab Sample ID: 480-57666-16 Client Sample ID: MW-8RDate Analyzed: 04/12/14 17:44 Lab File ID: G29213.D GC Column: ZB-624 (60) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene	2.90	Poor chromatography	goliszekg	04/14/14 00:17

Lab Sample ID: 480-57666-17 Client Sample ID: MW-15SDate Analyzed: 04/12/14 18:06 Lab File ID: G29214.D GC Column: ZB-624 (60) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene	2.90	Poor chromatography	goliszekg	04/14/14 00:18
Methylene Chloride	3.42	Poor chromatography	goliszekg	04/14/14 00:18

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Instrument ID: HP5973G Analysis Batch Number: 175488Lab Sample ID: CCVIS 480-175488/3 Client Sample ID: _____Date Analyzed: 04/13/14 21:23 Lab File ID: G29233.D GC Column: ZB-624 (60) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.01	Poor chromatography	goliszekg	04/13/14 21:47

SAMPLE SUMMARY

Client: AECOM, Inc.

Job Number: 480-57666-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-57666-1	MW-2	Ground Water	04/07/2014 1310	04/10/2014 1320
480-57666-2	MW-11	Ground Water	04/07/2014 1350	04/10/2014 1320
480-57666-3	MW-10	Ground Water	04/07/2014 1425	04/10/2014 1320
480-57666-4	MW-6	Ground Water	04/07/2014 1450	04/10/2014 1320
480-57666-5RB	Rinse Blank	Water	04/07/2014 0800	04/10/2014 1320
480-57666-6TB	Trip	Water	04/07/2014 0000	04/10/2014 1320
480-57666-7	MW-12	Ground Water	04/08/2014 1315	04/10/2014 1320
480-57666-8FD	Duplicate	Water	04/08/2014 0800	04/10/2014 1320
480-57666-9	MW-9	Ground Water	04/08/2014 1050	04/10/2014 1320
480-57666-10	MW-13S	Ground Water	04/08/2014 1355	04/10/2014 1320
480-57666-11	MW-13D	Ground Water	04/08/2014 1430	04/10/2014 1320
480-57666-12	MW-3	Ground Water	04/08/2014 0930	04/10/2014 1320
480-57666-13	MW-14D	Ground Water	04/09/2014 0840	04/10/2014 1320
480-57666-14	MW-14S	Ground Water	04/09/2014 0915	04/10/2014 1320
480-57666-15	MW-4	Ground Water	04/09/2014 1325	04/10/2014 1320
480-57666-16	MW-8R	Ground Water	04/09/2014 1230	04/10/2014 1320
480-57666-17	MW-15S	Ground Water	04/10/2014 1050	04/10/2014 1320
480-57666-18	MW-15D	Ground Water	04/10/2014 1000	04/10/2014 1320
480-57666-19	MW-16S	Ground Water	04/10/2014 0910	04/10/2014 1320
480-57666-20	MW-16D	Ground Water	04/10/2014 0835	04/10/2014 1320

EXECUTIVE SUMMARY - Detections

Client: AECOM, Inc.

Job Number: 480-57666-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-57666-1	MW-2					
Acetone		3.3	J	10	ug/L	8260C
Chloroethane		0.68	J	1.0	ug/L	8260C
480-57666-2	MW-11					
1,1-Dichloroethane		7.1		1.0	ug/L	8260C
1,1-Dichloroethene		0.85	J	1.0	ug/L	8260C
Acetone		3.7	J	10	ug/L	8260C
Chloroethane		2.3		1.0	ug/L	8260C
cis-1,2-Dichloroethene		26		1.0	ug/L	8260C
Vinyl chloride		4.3		1.0	ug/L	8260C
480-57666-7	MW-12					
Acetone		4.8	J	10	ug/L	8260C
Benzene		0.80	J	1.0	ug/L	8260C
Chloroethane		11		1.0	ug/L	8260C
Vinyl chloride		1.2		1.0	ug/L	8260C
480-57666-8FD	DUPLICATE					
1,1-Dichloroethene		150	J	500	ug/L	8260C
cis-1,2-Dichloroethene		18000		500	ug/L	8260C
Trichloroethene		32000		500	ug/L	8260C
480-57666-9	MW-9					
1,1-Dichloroethane		73		1.0	ug/L	8260C
1,2-Dichloroethane		2.3		1.0	ug/L	8260C
Chloroethane		22		1.0	ug/L	8260C
cis-1,2-Dichloroethene		21		1.0	ug/L	8260C
Vinyl chloride		75		1.0	ug/L	8260C
480-57666-10	MW-13S					
cis-1,2-Dichloroethene		18000		500	ug/L	8260C
Trichloroethene		32000		500	ug/L	8260C
480-57666-11	MW-13D					
cis-1,2-Dichloroethene		28		1.0	ug/L	8260C
Trichloroethene		30		1.0	ug/L	8260C
Vinyl chloride		1.9		1.0	ug/L	8260C

EXECUTIVE SUMMARY - Detections

Client: AECOM, Inc.

Job Number: 480-57666-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-57666-12	MW-3					
1,1-Dichloroethane		8.9		1.0	ug/L	8260C
Chloroethane		0.82	J	1.0	ug/L	8260C
cis-1,2-Dichloroethene		1.5		1.0	ug/L	8260C
Vinyl chloride		2.5		1.0	ug/L	8260C
480-57666-13	MW-14D					
1,1-Dichloroethane		0.82	J	1.0	ug/L	8260C
cis-1,2-Dichloroethene		28		1.0	ug/L	8260C
Vinyl chloride		17		1.0	ug/L	8260C
480-57666-14	MW-14S					
1,1-Dichloroethane		19		1.0	ug/L	8260C
1,2-Dichloroethane		1.3		1.0	ug/L	8260C
Benzene		0.93	J	1.0	ug/L	8260C
Chloroethane		14		1.0	ug/L	8260C
cis-1,2-Dichloroethene		25		1.0	ug/L	8260C
Vinyl chloride		19		1.0	ug/L	8260C
480-57666-15	MW-4					
1,1-Dichloroethane		880	J	1000	ug/L	8260C
1,1-Dichloroethene		450	J	1000	ug/L	8260C
cis-1,2-Dichloroethene		69000		1000	ug/L	8260C
Trichloroethene		32000		1000	ug/L	8260C
Vinyl chloride		3900		1000	ug/L	8260C
480-57666-16	MW-8R					
1,1-Dichloroethene		380	J	1000	ug/L	8260C
cis-1,2-Dichloroethene		56000		1000	ug/L	8260C
Trichloroethene		100000		1000	ug/L	8260C
Vinyl chloride		1900		1000	ug/L	8260C

EXECUTIVE SUMMARY - Detections

Client: AECOM, Inc.

Job Number: 480-57666-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-57666-17	MW-15S					
1,1-Dichloroethane		730		20	ug/L	8260C
1,1-Dichloroethene		15	J	20	ug/L	8260C
2-Butanone (MEK)		290		200	ug/L	8260C
Acetone		1400		200	ug/L	8260C
Chloroethane		250		20	ug/L	8260C
cis-1,2-Dichloroethene		1000		20	ug/L	8260C
Toluene		150		20	ug/L	8260C
Trichloroethene		160		20	ug/L	8260C
Vinyl chloride		350		20	ug/L	8260C
Xylenes, Total		24	J	40	ug/L	8260C
480-57666-18	MW-15D					
Chloroethane		1200		20	ug/L	8260C
480-57666-19	MW-16S					
1,1,1-Trichloroethane		1000		1000	ug/L	8260C
1,1-Dichloroethane		500	J	1000	ug/L	8260C
1,1-Dichloroethene		340	J	1000	ug/L	8260C
cis-1,2-Dichloroethene		24000		1000	ug/L	8260C
Trichloroethene		61000		1000	ug/L	8260C
Vinyl chloride		1600		1000	ug/L	8260C
480-57666-20	MW-16D					
1,1-Dichloroethane		99		25	ug/L	8260C
Chloroethane		110		25	ug/L	8260C
cis-1,2-Dichloroethene		1700		25	ug/L	8260C
Vinyl chloride		390		25	ug/L	8260C

METHOD SUMMARY

Client: AECOM, Inc.

Job Number: 480-57666-1

Description	Lab Location	Method	Preparation Method
Matrix: Ground Water			
Volatile Organic Compounds by GC/MS	TAL BUF	SW846 8260C	
Purge and Trap	TAL BUF		SW846 5030C
Matrix: Water			
Volatile Organic Compounds by GC/MS	TAL BUF	SW846 8260C	
Purge and Trap	TAL BUF		SW846 5030C

Lab References:

TAL BUF = TestAmerica Buffalo

Method References:

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

METHOD / ANALYST SUMMARY

Client: AECOM, Inc.

Job Number: 480-57666-1

Method	Analyst	Analyst ID
SW846 8260C	Goliszek, Gregory T	GTG
SW846 8260C	Larson, Renee A	RAL

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: MW-2

Lab Sample ID: 480-57666-1

Date Sampled: 04/07/2014 1310

Client Matrix: Ground Water

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175447	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29198.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/12/2014 1201			Final Weight/Volume:	5 mL
Prep Date:	04/12/2014 1201				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Butanone (MEK)	ND		1.3	10
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	3.3	J	3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chloroethane	0.68	J	0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	2.5
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: MW-2

Lab Sample ID: 480-57666-1

Date Sampled: 04/07/2014 1310

Client Matrix: Ground Water

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175447	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29198.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/12/2014 1201			Final Weight/Volume:	5 mL
Prep Date:	04/12/2014 1201				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		66 - 137
4-Bromofluorobenzene (Surr)	98		73 - 120
Toluene-d8 (Surr)	98		71 - 126

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: MW-11

Lab Sample ID: 480-57666-2

Date Sampled: 04/07/2014 1350

Client Matrix: Ground Water

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175447	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29199.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/12/2014 1224			Final Weight/Volume:	5 mL
Prep Date:	04/12/2014 1224				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	7.1		0.38	1.0
1,1-Dichloroethene	0.85	J	0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Butanone (MEK)	ND		1.3	10
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	3.7	J	3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chloroethane	2.3		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	26		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	2.5
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: MW-11

Lab Sample ID: 480-57666-2

Date Sampled: 04/07/2014 1350

Client Matrix: Ground Water

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175447	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29199.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/12/2014 1224			Final Weight/Volume:	5 mL
Prep Date:	04/12/2014 1224				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	4.3		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		66 - 137
4-Bromofluorobenzene (Surr)	99		73 - 120
Toluene-d8 (Surr)	98		71 - 126

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: MW-10

Lab Sample ID: 480-57666-3

Date Sampled: 04/07/2014 1425

Client Matrix: Ground Water

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175447	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29200.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/12/2014 1247			Final Weight/Volume:	5 mL
Prep Date:	04/12/2014 1247				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Butanone (MEK)	ND		1.3	10
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	2.5
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: MW-10

Lab Sample ID: 480-57666-3

Date Sampled: 04/07/2014 1425

Client Matrix: Ground Water

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175447	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29200.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/12/2014 1247			Final Weight/Volume:	5 mL
Prep Date:	04/12/2014 1247				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		66 - 137
4-Bromofluorobenzene (Surr)	94		73 - 120
Toluene-d8 (Surr)	96		71 - 126

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: MW-6

Lab Sample ID: 480-57666-4

Date Sampled: 04/07/2014 1450

Client Matrix: Ground Water

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175447	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29201.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/12/2014 1310			Final Weight/Volume:	5 mL
Prep Date:	04/12/2014 1310				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Butanone (MEK)	ND		1.3	10
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	2.5
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: MW-6

Lab Sample ID: 480-57666-4

Date Sampled: 04/07/2014 1450

Client Matrix: Ground Water

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175447	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29201.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/12/2014 1310			Final Weight/Volume:	5 mL
Prep Date:	04/12/2014 1310				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		66 - 137
4-Bromofluorobenzene (Surr)	98		73 - 120
Toluene-d8 (Surr)	101		71 - 126

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: Rinse Blank

Lab Sample ID: 480-57666-5RB

Date Sampled: 04/07/2014 0800

Client Matrix: Water

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175447	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29202.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/12/2014 1332			Final Weight/Volume:	5 mL
Prep Date:	04/12/2014 1332				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Butanone (MEK)	ND		1.3	10
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	2.5
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: Rinse Blank

Lab Sample ID: 480-57666-5RB

Date Sampled: 04/07/2014 0800

Client Matrix: Water

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175447	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29202.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/12/2014 1332			Final Weight/Volume:	5 mL
Prep Date:	04/12/2014 1332				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		66 - 137
4-Bromofluorobenzene (Surr)	97		73 - 120
Toluene-d8 (Surr)	99		71 - 126

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: Trip

Lab Sample ID: 480-57666-6TB

Date Sampled: 04/07/2014 0000

Client Matrix: Water

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175447	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29203.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/12/2014 1355			Final Weight/Volume:	5 mL
Prep Date:	04/12/2014 1355				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Butanone (MEK)	ND		1.3	10
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	2.5
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: Trip

Lab Sample ID: 480-57666-6TB

Date Sampled: 04/07/2014 0000

Client Matrix: Water

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175447	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29203.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/12/2014 1355			Final Weight/Volume:	5 mL
Prep Date:	04/12/2014 1355				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		66 - 137
4-Bromofluorobenzene (Surr)	95		73 - 120
Toluene-d8 (Surr)	95		71 - 126

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: MW-12

Lab Sample ID: 480-57666-7

Date Sampled: 04/08/2014 1315

Client Matrix: Ground Water

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175447	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29204.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/12/2014 1418			Final Weight/Volume:	5 mL
Prep Date:	04/12/2014 1418				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Butanone (MEK)	ND		1.3	10
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	4.8	J	3.0	10
Benzene	0.80	J	0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chloroethane	11		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	2.5
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: MW-12

Lab Sample ID: 480-57666-7

Date Sampled: 04/08/2014 1315

Client Matrix: Ground Water

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175447	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29204.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/12/2014 1418			Final Weight/Volume:	5 mL
Prep Date:	04/12/2014 1418				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	1.2		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		66 - 137
4-Bromofluorobenzene (Surr)	97		73 - 120
Toluene-d8 (Surr)	98		71 - 126

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: Duplicate

Lab Sample ID: 480-57666-8FD

Date Sampled: 04/08/2014 0800

Client Matrix: Water

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175488	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29253.D
Dilution:	500			Initial Weight/Volume:	5 mL
Analysis Date:	04/14/2014 0659			Final Weight/Volume:	5 mL
Prep Date:	04/14/2014 0659				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		410	500
1,1,2,2-Tetrachloroethane	ND		110	500
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		160	500
1,1,2-Trichloroethane	ND		120	500
1,1-Dichloroethane	ND		190	500
1,1-Dichloroethene	150	J	150	500
1,2,4-Trichlorobenzene	ND		210	500
1,2-Dibromo-3-Chloropropane	ND		200	500
1,2-Dibromoethane	ND		370	500
1,2-Dichlorobenzene	ND		400	500
1,2-Dichloroethane	ND		110	500
1,2-Dichloropropane	ND		360	500
1,3-Dichlorobenzene	ND		390	500
1,4-Dichlorobenzene	ND		420	500
2-Butanone (MEK)	ND		660	5000
2-Hexanone	ND		620	2500
4-Methyl-2-pentanone (MIBK)	ND		1100	2500
Acetone	ND		1500	5000
Benzene	ND		210	500
Bromodichloromethane	ND		200	500
Bromoform	ND		130	500
Bromomethane	ND		350	500
Carbon disulfide	ND		95	500
Carbon tetrachloride	ND		140	500
Chlorobenzene	ND		380	500
Chloroethane	ND		160	500
Chloroform	ND		170	500
Chloromethane	ND		180	500
cis-1,2-Dichloroethene	18000		410	500
cis-1,3-Dichloropropene	ND		180	500
Cyclohexane	ND		90	500
Dibromochloromethane	ND		160	500
Dichlorodifluoromethane	ND		340	500
Ethylbenzene	ND		370	500
Isopropylbenzene	ND		400	500
Methyl acetate	ND		250	1300
Methyl tert-butyl ether	ND		80	500
Methylcyclohexane	ND		80	500
Methylene Chloride	ND		220	500
Styrene	ND		370	500
Tetrachloroethene	ND		180	500
Toluene	ND		260	500
trans-1,2-Dichloroethene	ND		450	500
trans-1,3-Dichloropropene	ND		190	500
Trichloroethene	32000		230	500
Trichlorofluoromethane	ND		440	500

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: Duplicate

Lab Sample ID: 480-57666-8FD

Date Sampled: 04/08/2014 0800

Client Matrix: Water

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175488	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29253.D
Dilution:	500			Initial Weight/Volume:	5 mL
Analysis Date:	04/14/2014 0659			Final Weight/Volume:	5 mL
Prep Date:	04/14/2014 0659				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		450	500
Xylenes, Total	ND		330	1000

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		66 - 137
4-Bromofluorobenzene (Surr)	92		73 - 120
Toluene-d8 (Surr)	98		71 - 126

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: MW-9

Lab Sample ID: 480-57666-9

Date Sampled: 04/08/2014 1050

Client Matrix: Ground Water

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175447	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29206.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/12/2014 1504			Final Weight/Volume:	5 mL
Prep Date:	04/12/2014 1504				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	73		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	2.3		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Butanone (MEK)	ND		1.3	10
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chloroethane	22		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	21		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	2.5
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: MW-9

Lab Sample ID: 480-57666-9

Date Sampled: 04/08/2014 1050

Client Matrix: Ground Water

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175447	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29206.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/12/2014 1504			Final Weight/Volume:	5 mL
Prep Date:	04/12/2014 1504				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	75		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		66 - 137
4-Bromofluorobenzene (Surr)	98		73 - 120
Toluene-d8 (Surr)	101		71 - 126

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: MW-13S

Lab Sample ID: 480-57666-10

Date Sampled: 04/08/2014 1355

Client Matrix: Ground Water

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175488	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29254.D
Dilution:	500			Initial Weight/Volume:	5 mL
Analysis Date:	04/14/2014 0722			Final Weight/Volume:	5 mL
Prep Date:	04/14/2014 0722				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		410	500
1,1,2,2-Tetrachloroethane	ND		110	500
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		160	500
1,1,2-Trichloroethane	ND		120	500
1,1-Dichloroethane	ND		190	500
1,1-Dichloroethene	ND		150	500
1,2,4-Trichlorobenzene	ND		210	500
1,2-Dibromo-3-Chloropropane	ND		200	500
1,2-Dibromoethane	ND		370	500
1,2-Dichlorobenzene	ND		400	500
1,2-Dichloroethane	ND		110	500
1,2-Dichloropropane	ND		360	500
1,3-Dichlorobenzene	ND		390	500
1,4-Dichlorobenzene	ND		420	500
2-Butanone (MEK)	ND		660	5000
2-Hexanone	ND		620	2500
4-Methyl-2-pentanone (MIBK)	ND		1100	2500
Acetone	ND		1500	5000
Benzene	ND		210	500
Bromodichloromethane	ND		200	500
Bromoform	ND		130	500
Bromomethane	ND		350	500
Carbon disulfide	ND		95	500
Carbon tetrachloride	ND		140	500
Chlorobenzene	ND		380	500
Chloroethane	ND		160	500
Chloroform	ND		170	500
Chloromethane	ND		180	500
cis-1,2-Dichloroethene	18000		410	500
cis-1,3-Dichloropropene	ND		180	500
Cyclohexane	ND		90	500
Dibromochloromethane	ND		160	500
Dichlorodifluoromethane	ND		340	500
Ethylbenzene	ND		370	500
Isopropylbenzene	ND		400	500
Methyl acetate	ND		250	1300
Methyl tert-butyl ether	ND		80	500
Methylcyclohexane	ND		80	500
Methylene Chloride	ND		220	500
Styrene	ND		370	500
Tetrachloroethene	ND		180	500
Toluene	ND		260	500
trans-1,2-Dichloroethene	ND		450	500
trans-1,3-Dichloropropene	ND		190	500
Trichloroethene	32000		230	500
Trichlorofluoromethane	ND		440	500

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: MW-13S

Lab Sample ID: 480-57666-10

Date Sampled: 04/08/2014 1355

Client Matrix: Ground Water

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175488	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29254.D
Dilution:	500			Initial Weight/Volume:	5 mL
Analysis Date:	04/14/2014 0722			Final Weight/Volume:	5 mL
Prep Date:	04/14/2014 0722				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		450	500
Xylenes, Total	ND		330	1000

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108		66 - 137
4-Bromofluorobenzene (Surr)	94		73 - 120
Toluene-d8 (Surr)	100		71 - 126

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: MW-13D

Lab Sample ID: 480-57666-11

Date Sampled: 04/08/2014 1430

Client Matrix: Ground Water

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175447	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29208.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/12/2014 1549			Final Weight/Volume:	5 mL
Prep Date:	04/12/2014 1549				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Butanone (MEK)	ND		1.3	10
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	28		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	2.5
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	30		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: MW-13D

Lab Sample ID: 480-57666-11

Date Sampled: 04/08/2014 1430

Client Matrix: Ground Water

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175447	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29208.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/12/2014 1549			Final Weight/Volume:	5 mL
Prep Date:	04/12/2014 1549				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	1.9		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		66 - 137
4-Bromofluorobenzene (Surr)	97		73 - 120
Toluene-d8 (Surr)	100		71 - 126

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: MW-3

Lab Sample ID: 480-57666-12

Date Sampled: 04/08/2014 0930

Client Matrix: Ground Water

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175447	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29209.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/12/2014 1612			Final Weight/Volume:	5 mL
Prep Date:	04/12/2014 1612				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	8.9		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Butanone (MEK)	ND		1.3	10
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chloroethane	0.82	J	0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	1.5		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	2.5
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: MW-3

Lab Sample ID: 480-57666-12

Date Sampled: 04/08/2014 0930

Client Matrix: Ground Water

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175447	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29209.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/12/2014 1612			Final Weight/Volume:	5 mL
Prep Date:	04/12/2014 1612				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	2.5		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		66 - 137
4-Bromofluorobenzene (Surr)	96		73 - 120
Toluene-d8 (Surr)	100		71 - 126

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: MW-14D

Lab Sample ID: 480-57666-13

Date Sampled: 04/09/2014 0840

Client Matrix: Ground Water

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175447	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29210.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/12/2014 1635			Final Weight/Volume:	5 mL
Prep Date:	04/12/2014 1635				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	0.82	J	0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Butanone (MEK)	ND		1.3	10
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	28		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	2.5
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: MW-14D

Lab Sample ID: 480-57666-13

Date Sampled: 04/09/2014 0840

Client Matrix: Ground Water

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175447	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29210.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/12/2014 1635			Final Weight/Volume:	5 mL
Prep Date:	04/12/2014 1635				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	17		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		66 - 137
4-Bromofluorobenzene (Surr)	96		73 - 120
Toluene-d8 (Surr)	101		71 - 126

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: MW-14S

Lab Sample ID: 480-57666-14

Date Sampled: 04/09/2014 0915

Client Matrix: Ground Water

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175447	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29211.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/12/2014 1658			Final Weight/Volume:	5 mL
Prep Date:	04/12/2014 1658				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	19		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	1.3		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Butanone (MEK)	ND		1.3	10
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	0.93	J	0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chloroethane	14		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	25		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	2.5
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: MW-14S

Lab Sample ID: 480-57666-14

Date Sampled: 04/09/2014 0915

Client Matrix: Ground Water

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175447	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29211.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/12/2014 1658			Final Weight/Volume:	5 mL
Prep Date:	04/12/2014 1658				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	19		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		66 - 137
4-Bromofluorobenzene (Surr)	97		73 - 120
Toluene-d8 (Surr)	99		71 - 126

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: MW-4

Lab Sample ID: 480-57666-15

Client Matrix: Ground Water

Date Sampled: 04/09/2014 1325

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175447	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29212.D
Dilution:	1000			Initial Weight/Volume:	5 mL
Analysis Date:	04/12/2014 1721			Final Weight/Volume:	5 mL
Prep Date:	04/12/2014 1721				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		820	1000
1,1,2,2-Tetrachloroethane	ND		210	1000
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		310	1000
1,1,2-Trichloroethane	ND		230	1000
1,1-Dichloroethane	880	J	380	1000
1,1-Dichloroethene	450	J	290	1000
1,2,4-Trichlorobenzene	ND		410	1000
1,2-Dibromo-3-Chloropropane	ND		390	1000
1,2-Dibromoethane	ND		730	1000
1,2-Dichlorobenzene	ND		790	1000
1,2-Dichloroethane	ND		210	1000
1,2-Dichloropropane	ND		720	1000
1,3-Dichlorobenzene	ND		780	1000
1,4-Dichlorobenzene	ND		840	1000
2-Butanone (MEK)	ND		1300	10000
2-Hexanone	ND		1200	5000
4-Methyl-2-pentanone (MIBK)	ND		2100	5000
Acetone	ND		3000	10000
Benzene	ND		410	1000
Bromodichloromethane	ND		390	1000
Bromoform	ND		260	1000
Bromomethane	ND		690	1000
Carbon disulfide	ND		190	1000
Carbon tetrachloride	ND		270	1000
Chlorobenzene	ND		750	1000
Chloroethane	ND		320	1000
Chloroform	ND		340	1000
Chloromethane	ND		350	1000
cis-1,2-Dichloroethene	69000		810	1000
cis-1,3-Dichloropropene	ND		360	1000
Cyclohexane	ND		180	1000
Dibromochloromethane	ND		320	1000
Dichlorodifluoromethane	ND		680	1000
Ethylbenzene	ND		740	1000
Isopropylbenzene	ND		790	1000
Methyl acetate	ND		500	2500
Methyl tert-butyl ether	ND		160	1000
Methylcyclohexane	ND		160	1000
Methylene Chloride	ND		440	1000
Styrene	ND		730	1000
Tetrachloroethene	ND		360	1000
Toluene	ND		510	1000
trans-1,2-Dichloroethene	ND		900	1000
trans-1,3-Dichloropropene	ND		370	1000
Trichloroethene	32000		460	1000
Trichlorofluoromethane	ND		880	1000

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: MW-4

Lab Sample ID: 480-57666-15

Date Sampled: 04/09/2014 1325

Client Matrix: Ground Water

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175447	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29212.D
Dilution:	1000			Initial Weight/Volume:	5 mL
Analysis Date:	04/12/2014 1721			Final Weight/Volume:	5 mL
Prep Date:	04/12/2014 1721				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	3900		900	1000
Xylenes, Total	ND		660	2000

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108		66 - 137
4-Bromofluorobenzene (Surr)	94		73 - 120
Toluene-d8 (Surr)	100		71 - 126

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: MW-8R

Lab Sample ID: 480-57666-16

Client Matrix: Ground Water

Date Sampled: 04/09/2014 1230

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175447	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29213.D
Dilution:	1000			Initial Weight/Volume:	5 mL
Analysis Date:	04/12/2014 1744			Final Weight/Volume:	5 mL
Prep Date:	04/12/2014 1744				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		820	1000
1,1,2,2-Tetrachloroethane	ND		210	1000
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		310	1000
1,1,2-Trichloroethane	ND		230	1000
1,1-Dichloroethane	ND		380	1000
1,1-Dichloroethene	380	J	290	1000
1,2,4-Trichlorobenzene	ND		410	1000
1,2-Dibromo-3-Chloropropane	ND		390	1000
1,2-Dibromoethane	ND		730	1000
1,2-Dichlorobenzene	ND		790	1000
1,2-Dichloroethane	ND		210	1000
1,2-Dichloropropane	ND		720	1000
1,3-Dichlorobenzene	ND		780	1000
1,4-Dichlorobenzene	ND		840	1000
2-Butanone (MEK)	ND		1300	10000
2-Hexanone	ND		1200	5000
4-Methyl-2-pentanone (MIBK)	ND		2100	5000
Acetone	ND		3000	10000
Benzene	ND		410	1000
Bromodichloromethane	ND		390	1000
Bromoform	ND		260	1000
Bromomethane	ND		690	1000
Carbon disulfide	ND		190	1000
Carbon tetrachloride	ND		270	1000
Chlorobenzene	ND		750	1000
Chloroethane	ND		320	1000
Chloroform	ND		340	1000
Chloromethane	ND		350	1000
cis-1,2-Dichloroethene	56000		810	1000
cis-1,3-Dichloropropene	ND		360	1000
Cyclohexane	ND		180	1000
Dibromochloromethane	ND		320	1000
Dichlorodifluoromethane	ND		680	1000
Ethylbenzene	ND		740	1000
Isopropylbenzene	ND		790	1000
Methyl acetate	ND		500	2500
Methyl tert-butyl ether	ND		160	1000
Methylcyclohexane	ND		160	1000
Methylene Chloride	ND		440	1000
Styrene	ND		730	1000
Tetrachloroethene	ND		360	1000
Toluene	ND		510	1000
trans-1,2-Dichloroethene	ND		900	1000
trans-1,3-Dichloropropene	ND		370	1000
Trichloroethene	100000		460	1000
Trichlorofluoromethane	ND		880	1000

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: MW-8R

Lab Sample ID: 480-57666-16

Date Sampled: 04/09/2014 1230

Client Matrix: Ground Water

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175447	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29213.D
Dilution:	1000			Initial Weight/Volume:	5 mL
Analysis Date:	04/12/2014 1744			Final Weight/Volume:	5 mL
Prep Date:	04/12/2014 1744				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	1900		900	1000
Xylenes, Total	ND		660	2000

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		66 - 137
4-Bromofluorobenzene (Surr)	97		73 - 120
Toluene-d8 (Surr)	97		71 - 126

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: MW-15S

Lab Sample ID: 480-57666-17

Date Sampled: 04/10/2014 1050

Client Matrix: Ground Water

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175447	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29214.D
Dilution:	20			Initial Weight/Volume:	5 mL
Analysis Date:	04/12/2014 1806			Final Weight/Volume:	5 mL
Prep Date:	04/12/2014 1806				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		16	20
1,1,2,2-Tetrachloroethane	ND		4.2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.2	20
1,1,2-Trichloroethane	ND		4.6	20
1,1-Dichloroethane	730		7.6	20
1,1-Dichloroethene	15	J	5.8	20
1,2,4-Trichlorobenzene	ND		8.2	20
1,2-Dibromo-3-Chloropropane	ND		7.8	20
1,2-Dibromoethane	ND		15	20
1,2-Dichlorobenzene	ND		16	20
1,2-Dichloroethane	ND		4.2	20
1,2-Dichloropropane	ND		14	20
1,3-Dichlorobenzene	ND		16	20
1,4-Dichlorobenzene	ND		17	20
2-Butanone (MEK)	290		26	200
2-Hexanone	ND		25	100
4-Methyl-2-pentanone (MIBK)	ND		42	100
Acetone	1400		60	200
Benzene	ND		8.2	20
Bromodichloromethane	ND		7.8	20
Bromoform	ND		5.2	20
Bromomethane	ND		14	20
Carbon disulfide	ND		3.8	20
Carbon tetrachloride	ND		5.4	20
Chlorobenzene	ND		15	20
Chloroethane	250		6.4	20
Chloroform	ND		6.8	20
Chloromethane	ND		7.0	20
cis-1,2-Dichloroethene	1000		16	20
cis-1,3-Dichloropropene	ND		7.2	20
Cyclohexane	ND		3.6	20
Dibromochloromethane	ND		6.4	20
Dichlorodifluoromethane	ND		14	20
Ethylbenzene	ND		15	20
Isopropylbenzene	ND		16	20
Methyl acetate	ND		10	50
Methyl tert-butyl ether	ND		3.2	20
Methylcyclohexane	ND		3.2	20
Methylene Chloride	ND		8.8	20
Styrene	ND		15	20
Tetrachloroethene	ND		7.2	20
Toluene	150		10	20
trans-1,2-Dichloroethene	ND		18	20
trans-1,3-Dichloropropene	ND		7.4	20
Trichloroethene	160		9.2	20
Trichlorofluoromethane	ND		18	20

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: MW-15S

Lab Sample ID: 480-57666-17

Date Sampled: 04/10/2014 1050

Client Matrix: Ground Water

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175447	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29214.D
Dilution:	20			Initial Weight/Volume:	5 mL
Analysis Date:	04/12/2014 1806			Final Weight/Volume:	5 mL
Prep Date:	04/12/2014 1806				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	350		18	20
Xylenes, Total	24	J	13	40

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		66 - 137
4-Bromofluorobenzene (Surr)	99		73 - 120
Toluene-d8 (Surr)	100		71 - 126

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: MW-15D

Lab Sample ID: 480-57666-18

Date Sampled: 04/10/2014 1000

Client Matrix: Ground Water

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175447	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29215.D
Dilution:	20			Initial Weight/Volume:	5 mL
Analysis Date:	04/12/2014 1829			Final Weight/Volume:	5 mL
Prep Date:	04/12/2014 1829				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		16	20
1,1,2,2-Tetrachloroethane	ND		4.2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.2	20
1,1,2-Trichloroethane	ND		4.6	20
1,1-Dichloroethane	ND		7.6	20
1,1-Dichloroethene	ND		5.8	20
1,2,4-Trichlorobenzene	ND		8.2	20
1,2-Dibromo-3-Chloropropane	ND		7.8	20
1,2-Dibromoethane	ND		15	20
1,2-Dichlorobenzene	ND		16	20
1,2-Dichloroethane	ND		4.2	20
1,2-Dichloropropane	ND		14	20
1,3-Dichlorobenzene	ND		16	20
1,4-Dichlorobenzene	ND		17	20
2-Butanone (MEK)	ND		26	200
2-Hexanone	ND		25	100
4-Methyl-2-pentanone (MIBK)	ND		42	100
Acetone	ND		60	200
Benzene	ND		8.2	20
Bromodichloromethane	ND		7.8	20
Bromoform	ND		5.2	20
Bromomethane	ND		14	20
Carbon disulfide	ND		3.8	20
Carbon tetrachloride	ND		5.4	20
Chlorobenzene	ND		15	20
Chloroethane	1200		6.4	20
Chloroform	ND		6.8	20
Chloromethane	ND		7.0	20
cis-1,2-Dichloroethene	ND		16	20
cis-1,3-Dichloropropene	ND		7.2	20
Cyclohexane	ND		3.6	20
Dibromochloromethane	ND		6.4	20
Dichlorodifluoromethane	ND		14	20
Ethylbenzene	ND		15	20
Isopropylbenzene	ND		16	20
Methyl acetate	ND		10	50
Methyl tert-butyl ether	ND		3.2	20
Methylcyclohexane	ND		3.2	20
Methylene Chloride	ND		8.8	20
Styrene	ND		15	20
Tetrachloroethene	ND		7.2	20
Toluene	ND		10	20
trans-1,2-Dichloroethene	ND		18	20
trans-1,3-Dichloropropene	ND		7.4	20
Trichloroethene	ND		9.2	20
Trichlorofluoromethane	ND		18	20

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: MW-15D

Lab Sample ID: 480-57666-18

Date Sampled: 04/10/2014 1000

Client Matrix: Ground Water

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175447	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29215.D
Dilution:	20			Initial Weight/Volume:	5 mL
Analysis Date:	04/12/2014 1829			Final Weight/Volume:	5 mL
Prep Date:	04/12/2014 1829				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		18	20
Xylenes, Total	ND		13	40

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		66 - 137
4-Bromofluorobenzene (Surr)	98		73 - 120
Toluene-d8 (Surr)	99		71 - 126

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: MW-16S

Lab Sample ID: 480-57666-19

Date Sampled: 04/10/2014 0910

Client Matrix: Ground Water

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175488	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29255.D
Dilution:	1000			Initial Weight/Volume:	5 mL
Analysis Date:	04/14/2014 0745			Final Weight/Volume:	5 mL
Prep Date:	04/14/2014 0745				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1000		820	1000
1,1,2,2-Tetrachloroethane	ND		210	1000
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		310	1000
1,1,2-Trichloroethane	ND		230	1000
1,1-Dichloroethane	500	J	380	1000
1,1-Dichloroethene	340	J	290	1000
1,2,4-Trichlorobenzene	ND		410	1000
1,2-Dibromo-3-Chloropropane	ND		390	1000
1,2-Dibromoethane	ND		730	1000
1,2-Dichlorobenzene	ND		790	1000
1,2-Dichloroethane	ND		210	1000
1,2-Dichloropropane	ND		720	1000
1,3-Dichlorobenzene	ND		780	1000
1,4-Dichlorobenzene	ND		840	1000
2-Butanone (MEK)	ND		1300	10000
2-Hexanone	ND		1200	5000
4-Methyl-2-pentanone (MIBK)	ND		2100	5000
Acetone	ND		3000	10000
Benzene	ND		410	1000
Bromodichloromethane	ND		390	1000
Bromoform	ND		260	1000
Bromomethane	ND		690	1000
Carbon disulfide	ND		190	1000
Carbon tetrachloride	ND		270	1000
Chlorobenzene	ND		750	1000
Chloroethane	ND		320	1000
Chloroform	ND		340	1000
Chloromethane	ND		350	1000
cis-1,2-Dichloroethene	24000		810	1000
cis-1,3-Dichloropropene	ND		360	1000
Cyclohexane	ND		180	1000
Dibromochloromethane	ND		320	1000
Dichlorodifluoromethane	ND		680	1000
Ethylbenzene	ND		740	1000
Isopropylbenzene	ND		790	1000
Methyl acetate	ND		500	2500
Methyl tert-butyl ether	ND		160	1000
Methylcyclohexane	ND		160	1000
Methylene Chloride	ND		440	1000
Styrene	ND		730	1000
Tetrachloroethene	ND		360	1000
Toluene	ND		510	1000
trans-1,2-Dichloroethene	ND		900	1000
trans-1,3-Dichloropropene	ND		370	1000
Trichloroethene	61000		460	1000
Trichlorofluoromethane	ND		880	1000

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: MW-16S

Lab Sample ID: 480-57666-19

Date Sampled: 04/10/2014 0910

Client Matrix: Ground Water

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175488	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29255.D
Dilution:	1000			Initial Weight/Volume:	5 mL
Analysis Date:	04/14/2014 0745			Final Weight/Volume:	5 mL
Prep Date:	04/14/2014 0745				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	1600		900	1000
Xylenes, Total	ND		660	2000

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108		66 - 137
4-Bromofluorobenzene (Surr)	98		73 - 120
Toluene-d8 (Surr)	102		71 - 126

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: MW-16D

Lab Sample ID: 480-57666-20

Date Sampled: 04/10/2014 0835

Client Matrix: Ground Water

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175488	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29256.D
Dilution:	25			Initial Weight/Volume:	5 mL
Analysis Date:	04/14/2014 0808			Final Weight/Volume:	5 mL
Prep Date:	04/14/2014 0808				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		21	25
1,1,2,2-Tetrachloroethane	ND		5.3	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.8	25
1,1,2-Trichloroethane	ND		5.8	25
1,1-Dichloroethane	99		9.5	25
1,1-Dichloroethene	ND		7.3	25
1,2,4-Trichlorobenzene	ND		10	25
1,2-Dibromo-3-Chloropropane	ND		9.8	25
1,2-Dibromoethane	ND		18	25
1,2-Dichlorobenzene	ND		20	25
1,2-Dichloroethane	ND		5.3	25
1,2-Dichloropropane	ND		18	25
1,3-Dichlorobenzene	ND		20	25
1,4-Dichlorobenzene	ND		21	25
2-Butanone (MEK)	ND		33	250
2-Hexanone	ND		31	130
4-Methyl-2-pentanone (MIBK)	ND		53	130
Acetone	ND		75	250
Benzene	ND		10	25
Bromodichloromethane	ND		9.8	25
Bromoform	ND		6.5	25
Bromomethane	ND		17	25
Carbon disulfide	ND		4.8	25
Carbon tetrachloride	ND		6.8	25
Chlorobenzene	ND		19	25
Chloroethane	110		8.0	25
Chloroform	ND		8.5	25
Chloromethane	ND		8.8	25
cis-1,2-Dichloroethene	1700		20	25
cis-1,3-Dichloropropene	ND		9.0	25
Cyclohexane	ND		4.5	25
Dibromochloromethane	ND		8.0	25
Dichlorodifluoromethane	ND		17	25
Ethylbenzene	ND		19	25
Isopropylbenzene	ND		20	25
Methyl acetate	ND		13	63
Methyl tert-butyl ether	ND		4.0	25
Methylcyclohexane	ND		4.0	25
Methylene Chloride	ND		11	25
Styrene	ND		18	25
Tetrachloroethene	ND		9.0	25
Toluene	ND		13	25
trans-1,2-Dichloroethene	ND		23	25
trans-1,3-Dichloropropene	ND		9.3	25
Trichloroethene	ND		12	25
Trichlorofluoromethane	ND		22	25

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57666-1

Client Sample ID: MW-16D

Lab Sample ID: 480-57666-20

Date Sampled: 04/10/2014 0835

Client Matrix: Ground Water

Date Received: 04/10/2014 1320

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-175488	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29256.D
Dilution:	25			Initial Weight/Volume:	5 mL
Analysis Date:	04/14/2014 0808			Final Weight/Volume:	5 mL
Prep Date:	04/14/2014 0808				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	390		23	25
Xylenes, Total	ND		17	50

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108		66 - 137
4-Bromofluorobenzene (Surr)	99		73 - 120
Toluene-d8 (Surr)	101		71 - 126

Client: AECOM, Inc.

Job Number: 480-57666-1

Surrogate Recovery Report**8260C Volatile Organic Compounds by GC/MS****Client Matrix: Water**

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec
480-57666-1	MW-2	103	98	98
480-57666-2	MW-11	101	98	99
480-57666-3	MW-10	102	96	94
480-57666-4	MW-6	104	101	98
480-57666-5	Rinse Blank	102	99	97
480-57666-6	Trip	105	95	95
480-57666-7	MW-12	102	98	97
480-57666-8	Duplicate	106	98	92
480-57666-9	MW-9	103	101	98
480-57666-10	MW-13S	108	100	94
480-57666-11	MW-13D	103	100	97
480-57666-12	MW-3	104	100	96
480-57666-13	MW-14D	106	101	96
480-57666-14	MW-14S	105	99	97
480-57666-15	MW-4	108	100	94
480-57666-16	MW-8R	105	97	97
480-57666-17	MW-15S	105	100	99
480-57666-18	MW-15D	106	99	98
480-57666-19	MW-16S	108	102	98
480-57666-20	MW-16D	108	101	99
MB 480-175447/7		102	101	97
MB 480-175488/7		100	99	100
LCS 480-175447/5		100	100	100
LCS 480-175488/5		100	101	101

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	66-137
TOL = Toluene-d8 (Surr)	71-126
BFB = 4-Bromofluorobenzene (Surr)	73-120

Quality Control Results

Client: AECOM, Inc.

Job Number: 480-57666-1

Method Blank - Batch: 480-175447

Method: 8260C Preparation: 5030C

Lab Sample ID: MB 480-175447/7
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/12/2014 1122
Prep Date: 04/12/2014 1122
Leach Date: N/A

Analysis Batch: 480-175447
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: HP5973G
Lab File ID: G29197.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Butanone (MEK)	ND		1.3	10
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	2.5
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0

Quality Control Results

Client: AECOM, Inc.

Job Number: 480-57666-1

Method Blank - Batch: 480-175447

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 480-175447/7	Analysis Batch:	480-175447	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G29197.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	04/12/2014 1122	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	04/12/2014 1122				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102	66 - 137
4-Bromofluorobenzene (Surr)	97	73 - 120
Toluene-d8 (Surr)	101	71 - 126

Lab Control Sample - Batch: 480-175447

Method: 8260C
Preparation: 5030C

Lab Sample ID:	LCS 480-175447/5	Analysis Batch:	480-175447	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G29195.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	04/12/2014 1037	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	04/12/2014 1037				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	25.0	25.4	102	71 - 129	
1,1-Dichloroethene	25.0	22.9	91	58 - 121	
1,2-Dichlorobenzene	25.0	24.8	99	80 - 124	
1,2-Dichloroethane	25.0	24.9	99	75 - 127	
Benzene	25.0	24.1	96	71 - 124	
Chlorobenzene	25.0	24.0	96	72 - 120	
cis-1,2-Dichloroethene	25.0	23.8	95	74 - 124	
Ethylbenzene	25.0	24.5	98	77 - 123	
Methyl tert-butyl ether	25.0	24.7	99	64 - 127	
Tetrachloroethene	25.0	24.2	97	74 - 122	
Toluene	25.0	24.2	97	80 - 122	
trans-1,2-Dichloroethene	25.0	22.8	91	73 - 127	
Trichloroethene	25.0	23.6	94	74 - 123	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100	66 - 137
4-Bromofluorobenzene (Surr)	100	73 - 120
Toluene-d8 (Surr)	100	71 - 126

Quality Control Results

Client: AECOM, Inc.

Job Number: 480-57666-1

Method Blank - Batch: 480-175488

Method: 8260C Preparation: 5030C

Lab Sample ID: MB 480-175488/7
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/14/2014 0025
Prep Date: 04/14/2014 0025
Leach Date: N/A

Analysis Batch: 480-175488
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: HP5973G
Lab File ID: G29237.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Butanone (MEK)	ND		1.3	10
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	2.5
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0

Quality Control Results

Client: AECOM, Inc.

Job Number: 480-57666-1

Method Blank - Batch: 480-175488

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 480-175488/7	Analysis Batch:	480-175488	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G29237.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	04/14/2014 0025	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	04/14/2014 0025				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100	66 - 137
4-Bromofluorobenzene (Surr)	100	73 - 120
Toluene-d8 (Surr)	99	71 - 126

Lab Control Sample - Batch: 480-175488

Method: 8260C
Preparation: 5030C

Lab Sample ID:	LCS 480-175488/5	Analysis Batch:	480-175488	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G29235.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	04/13/2014 2339	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	04/13/2014 2339				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	25.0	23.7	95	71 - 129	
1,1-Dichloroethene	25.0	24.4	97	58 - 121	
1,2-Dichlorobenzene	25.0	25.2	101	80 - 124	
1,2-Dichloroethane	25.0	24.5	98	75 - 127	
Benzene	25.0	23.7	95	71 - 124	
Chlorobenzene	25.0	24.3	97	72 - 120	
cis-1,2-Dichloroethene	25.0	23.9	96	74 - 124	
Ethylbenzene	25.0	24.7	99	77 - 123	
Methyl tert-butyl ether	25.0	24.0	96	64 - 127	
Tetrachloroethene	25.0	24.2	97	74 - 122	
Toluene	25.0	23.8	95	80 - 122	
trans-1,2-Dichloroethene	25.0	24.5	98	73 - 127	
Trichloroethene	25.0	23.6	94	74 - 123	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100	66 - 137
4-Bromofluorobenzene (Surr)	101	73 - 120
Toluene-d8 (Surr)	101	71 - 126

DATA REPORTING QUALIFIERS

Client: AECOM, Inc.

Job Number: 480-57666-1

Lab Section	Qualifier	Description
GC/MS VOA	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Quality Control Results

Client: AECOM, Inc.

Job Number: 480-57666-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:480-175447					
LCS 480-175447/5	Lab Control Sample	T	Water	8260C	
MB 480-175447/7	Method Blank	T	Water	8260C	
480-57666-1	MW-2	T	Water	8260C	
480-57666-2	MW-11	T	Water	8260C	
480-57666-3	MW-10	T	Water	8260C	
480-57666-4	MW-6	T	Water	8260C	
480-57666-5RB	Rinse Blank	T	Water	8260C	
480-57666-6TB	Trip	T	Water	8260C	
480-57666-7	MW-12	T	Water	8260C	
480-57666-9	MW-9	T	Water	8260C	
480-57666-11	MW-13D	T	Water	8260C	
480-57666-12	MW-3	T	Water	8260C	
480-57666-13	MW-14D	T	Water	8260C	
480-57666-14	MW-14S	T	Water	8260C	
480-57666-15	MW-4	T	Water	8260C	
480-57666-16	MW-8R	T	Water	8260C	
480-57666-17	MW-15S	T	Water	8260C	
480-57666-18	MW-15D	T	Water	8260C	
Analysis Batch:480-175488					
LCS 480-175488/5	Lab Control Sample	T	Water	8260C	
MB 480-175488/7	Method Blank	T	Water	8260C	
480-57666-8FD	Duplicate	T	Water	8260C	
480-57666-10	MW-13S	T	Water	8260C	
480-57666-19	MW-16S	T	Water	8260C	
480-57666-20	MW-16D	T	Water	8260C	

Report Basis

T = Total

Quality Control Results

Client: AECOM, Inc.

Job Number: 480-57666-1

Laboratory Chronicle

Lab ID: 480-57666-1

Client ID: MW-2

Sample Date/Time: 04/07/2014 13:10

Received Date/Time: 04/10/2014 13:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-57666-A-1		480-175447		04/12/2014 12:01	1	TAL BUF	GTG
A:8260C	480-57666-A-1		480-175447		04/12/2014 12:01	1	TAL BUF	GTG

Lab ID: 480-57666-2

Client ID: MW-11

Sample Date/Time: 04/07/2014 13:50

Received Date/Time: 04/10/2014 13:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-57666-A-2		480-175447		04/12/2014 12:24	1	TAL BUF	GTG
A:8260C	480-57666-A-2		480-175447		04/12/2014 12:24	1	TAL BUF	GTG

Lab ID: 480-57666-3

Client ID: MW-10

Sample Date/Time: 04/07/2014 14:25

Received Date/Time: 04/10/2014 13:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-57666-A-3		480-175447		04/12/2014 12:47	1	TAL BUF	GTG
A:8260C	480-57666-A-3		480-175447		04/12/2014 12:47	1	TAL BUF	GTG

Lab ID: 480-57666-4

Client ID: MW-6

Sample Date/Time: 04/07/2014 14:50

Received Date/Time: 04/10/2014 13:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-57666-A-4		480-175447		04/12/2014 13:10	1	TAL BUF	GTG
A:8260C	480-57666-A-4		480-175447		04/12/2014 13:10	1	TAL BUF	GTG

Lab ID: 480-57666-5

Client ID: Rinse Blank

Sample Date/Time: 04/07/2014 08:00

Received Date/Time: 04/10/2014 13:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-57666-A-5		480-175447		04/12/2014 13:32	1	TAL BUF	GTG
A:8260C	480-57666-A-5		480-175447		04/12/2014 13:32	1	TAL BUF	GTG

Lab ID: 480-57666-6

Client ID: Trip

Sample Date/Time: 04/07/2014 00:00

Received Date/Time: 04/10/2014 13:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-57666-A-6		480-175447		04/12/2014 13:55	1	TAL BUF	GTG
A:8260C	480-57666-A-6		480-175447		04/12/2014 13:55	1	TAL BUF	GTG

Quality Control Results

Client: AECOM, Inc.

Job Number: 480-57666-1

Laboratory Chronicle

Lab ID: 480-57666-7

Client ID: MW-12

Sample Date/Time: 04/08/2014 13:15

Received Date/Time: 04/10/2014 13:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-57666-A-7		480-175447		04/12/2014 14:18	1	TAL BUF	GTG
A:8260C	480-57666-A-7		480-175447		04/12/2014 14:18	1	TAL BUF	GTG

Lab ID: 480-57666-8

Client ID: Duplicate

Sample Date/Time: 04/08/2014 08:00

Received Date/Time: 04/10/2014 13:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-57666-B-8		480-175488		04/14/2014 06:59	500	TAL BUF	RAL
A:8260C	480-57666-B-8		480-175488		04/14/2014 06:59	500	TAL BUF	RAL

Lab ID: 480-57666-9

Client ID: MW-9

Sample Date/Time: 04/08/2014 10:50

Received Date/Time: 04/10/2014 13:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-57666-A-9		480-175447		04/12/2014 15:04	1	TAL BUF	GTG
A:8260C	480-57666-A-9		480-175447		04/12/2014 15:04	1	TAL BUF	GTG

Lab ID: 480-57666-10

Client ID: MW-13S

Sample Date/Time: 04/08/2014 13:55

Received Date/Time: 04/10/2014 13:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-57666-B-10		480-175488		04/14/2014 07:22	500	TAL BUF	RAL
A:8260C	480-57666-B-10		480-175488		04/14/2014 07:22	500	TAL BUF	RAL

Lab ID: 480-57666-11

Client ID: MW-13D

Sample Date/Time: 04/08/2014 14:30

Received Date/Time: 04/10/2014 13:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-57666-A-11		480-175447		04/12/2014 15:49	1	TAL BUF	GTG
A:8260C	480-57666-A-11		480-175447		04/12/2014 15:49	1	TAL BUF	GTG

Lab ID: 480-57666-12

Client ID: MW-3

Sample Date/Time: 04/08/2014 09:30

Received Date/Time: 04/10/2014 13:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-57666-A-12		480-175447		04/12/2014 16:12	1	TAL BUF	GTG
A:8260C	480-57666-A-12		480-175447		04/12/2014 16:12	1	TAL BUF	GTG

Quality Control Results

Client: AECOM, Inc.

Job Number: 480-57666-1

Laboratory Chronicle

Lab ID: 480-57666-13

Client ID: MW-14D

Sample Date/Time: 04/09/2014 08:40

Received Date/Time: 04/10/2014 13:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-57666-A-13		480-175447		04/12/2014 16:35	1	TAL BUF	GTG
A:8260C	480-57666-A-13		480-175447		04/12/2014 16:35	1	TAL BUF	GTG

Lab ID: 480-57666-14

Client ID: MW-14S

Sample Date/Time: 04/09/2014 09:15

Received Date/Time: 04/10/2014 13:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-57666-A-14		480-175447		04/12/2014 16:58	1	TAL BUF	GTG
A:8260C	480-57666-A-14		480-175447		04/12/2014 16:58	1	TAL BUF	GTG

Lab ID: 480-57666-15

Client ID: MW-4

Sample Date/Time: 04/09/2014 13:25

Received Date/Time: 04/10/2014 13:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-57666-A-15		480-175447		04/12/2014 17:21	1000	TAL BUF	GTG
A:8260C	480-57666-A-15		480-175447		04/12/2014 17:21	1000	TAL BUF	GTG

Lab ID: 480-57666-16

Client ID: MW-8R

Sample Date/Time: 04/09/2014 12:30

Received Date/Time: 04/10/2014 13:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-57666-A-16		480-175447		04/12/2014 17:44	1000	TAL BUF	GTG
A:8260C	480-57666-A-16		480-175447		04/12/2014 17:44	1000	TAL BUF	GTG

Lab ID: 480-57666-17

Client ID: MW-15S

Sample Date/Time: 04/10/2014 10:50

Received Date/Time: 04/10/2014 13:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-57666-A-17		480-175447		04/12/2014 18:06	20	TAL BUF	GTG
A:8260C	480-57666-A-17		480-175447		04/12/2014 18:06	20	TAL BUF	GTG

Lab ID: 480-57666-18

Client ID: MW-15D

Sample Date/Time: 04/10/2014 10:00

Received Date/Time: 04/10/2014 13:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-57666-A-18		480-175447		04/12/2014 18:29	20	TAL BUF	GTG
A:8260C	480-57666-A-18		480-175447		04/12/2014 18:29	20	TAL BUF	GTG

Quality Control Results

Client: AECOM, Inc.

Job Number: 480-57666-1

Laboratory Chronicle

Lab ID: 480-57666-19

Client ID: MW-16S

Sample Date/Time: 04/10/2014 09:10

Received Date/Time: 04/10/2014 13:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-57666-B-19		480-175488		04/14/2014 07:45	1000	TAL BUF	RAL
A:8260C	480-57666-B-19		480-175488		04/14/2014 07:45	1000	TAL BUF	RAL

Lab ID: 480-57666-20

Client ID: MW-16D

Sample Date/Time: 04/10/2014 08:35

Received Date/Time: 04/10/2014 13:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-57666-B-20		480-175488		04/14/2014 08:08	25	TAL BUF	RAL
A:8260C	480-57666-B-20		480-175488		04/14/2014 08:08	25	TAL BUF	RAL

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	MB 480-175447/7		480-175447		04/12/2014 11:22	1	TAL BUF	GTG
A:8260C	MB 480-175447/7		480-175447		04/12/2014 11:22	1	TAL BUF	GTG
P:5030C	MB 480-175488/7		480-175488		04/14/2014 00:25	1	TAL BUF	RAL
A:8260C	MB 480-175488/7		480-175488		04/14/2014 00:25	1	TAL BUF	RAL

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	LCS 480-175447/5		480-175447		04/12/2014 10:37	1	TAL BUF	GTG
A:8260C	LCS 480-175447/5		480-175447		04/12/2014 10:37	1	TAL BUF	GTG
P:5030C	LCS 480-175488/5		480-175488		04/13/2014 23:39	1	TAL BUF	RAL
A:8260C	LCS 480-175488/5		480-175488		04/13/2014 23:39	1	TAL BUF	RAL

Lab References:

TAL BUF = TestAmerica Buffalo

Certification Summary

Client: AECOM, Inc.
Project/Site: Scott Aviation site

TestAmerica Job ID: 480-57666-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas DEQ	State Program	6	88-0686
TestAmerica Buffalo	California	State Program	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	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 (DW)	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

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.

Method 8260C

Volatile Organic Compounds (GC/MS)
by Method 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Matrix: Water Level: Low

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

Client Sample ID	Lab Sample ID	DCA #	TOL #	BFB #
MW-2	480-57666-1	103	98	98
MW-11	480-57666-2	101	98	99
MW-10	480-57666-3	102	96	94
MW-6	480-57666-4	104	101	98
Rinse Blank	480-57666-5	102	99	97
Trip	480-57666-6	105	95	95
MW-12	480-57666-7	102	98	97
Duplicate	480-57666-8	106	98	92
MW-9	480-57666-9	103	101	98
MW-13S	480-57666-10	108	100	94
MW-13D	480-57666-11	103	100	97
MW-3	480-57666-12	104	100	96
MW-14D	480-57666-13	106	101	96
MW-14S	480-57666-14	105	99	97
MW-4	480-57666-15	108	100	94
MW-8R	480-57666-16	105	97	97
MW-15S	480-57666-17	105	100	99
MW-15D	480-57666-18	106	99	98
MW-16S	480-57666-19	108	102	98
MW-16D	480-57666-20	108	101	99
	MB 480-175447/7	102	101	97
	MB 480-175488/7	100	99	100
	LCS 480-175447/5	100	100	100
	LCS 480-175488/5	100	101	101

	<u>QC LIMITS</u>
DCA = 1,2-Dichloroethane-d4 (Surr)	66-137
TOL = Toluene-d8 (Surr)	71-126
BFB = 4-Bromofluorobenzene (Surr)	73-120

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: G29195.D
 Lab ID: LCS 480-175447/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethane	25.0	25.4	102	71-129	
1,1-Dichloroethene	25.0	22.9	91	58-121	
1,2-Dichlorobenzene	25.0	24.8	99	80-124	
1,2-Dichloroethane	25.0	24.9	99	75-127	
Benzene	25.0	24.1	96	71-124	
Chlorobenzene	25.0	24.0	96	72-120	
cis-1,2-Dichloroethene	25.0	23.8	95	74-124	
Ethylbenzene	25.0	24.5	98	77-123	
Methyl tert-butyl ether	25.0	24.7	99	64-127	
Tetrachloroethene	25.0	24.2	97	74-122	
Toluene	25.0	24.2	97	80-122	
trans-1,2-Dichloroethene	25.0	22.8	91	73-127	
Trichloroethene	25.0	23.6	94	74-123	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: G29235.D
 Lab ID: LCS 480-175488/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethane	25.0	23.7	95	71-129	
1,1-Dichloroethene	25.0	24.4	97	58-121	
1,2-Dichlorobenzene	25.0	25.2	101	80-124	
1,2-Dichloroethane	25.0	24.5	98	75-127	
Benzene	25.0	23.7	95	71-124	
Chlorobenzene	25.0	24.3	97	72-120	
cis-1,2-Dichloroethene	25.0	23.9	96	74-124	
Ethylbenzene	25.0	24.7	99	77-123	
Methyl tert-butyl ether	25.0	24.0	96	64-127	
Tetrachloroethene	25.0	24.2	97	74-122	
Toluene	25.0	23.8	95	80-122	
trans-1,2-Dichloroethene	25.0	24.5	98	73-127	
Trichloroethene	25.0	23.6	94	74-123	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1
 SDG No.: _____
 Lab File ID: G29197.D Lab Sample ID: MB 480-175447/7
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: HP5973G Date Analyzed: 04/12/2014 11:22
 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 480-175447/5	G29195.D	04/12/2014 10:37
MW-2	480-57666-1	G29198.D	04/12/2014 12:01
MW-11	480-57666-2	G29199.D	04/12/2014 12:24
MW-10	480-57666-3	G29200.D	04/12/2014 12:47
MW-6	480-57666-4	G29201.D	04/12/2014 13:10
Rinse Blank	480-57666-5	G29202.D	04/12/2014 13:32
Trip	480-57666-6	G29203.D	04/12/2014 13:55
MW-12	480-57666-7	G29204.D	04/12/2014 14:18
MW-9	480-57666-9	G29206.D	04/12/2014 15:04
MW-13D	480-57666-11	G29208.D	04/12/2014 15:49
MW-3	480-57666-12	G29209.D	04/12/2014 16:12
MW-14D	480-57666-13	G29210.D	04/12/2014 16:35
MW-14S	480-57666-14	G29211.D	04/12/2014 16:58
MW-4	480-57666-15	G29212.D	04/12/2014 17:21
MW-8R	480-57666-16	G29213.D	04/12/2014 17:44
MW-15S	480-57666-17	G29214.D	04/12/2014 18:06
MW-15D	480-57666-18	G29215.D	04/12/2014 18:29

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1
SDG No.: _____
Lab File ID: G29237.D Lab Sample ID: MB 480-175488/7
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: HP5973G Date Analyzed: 04/14/2014 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 480-175488/5	G29235.D	04/13/2014 23:39
Duplicate	480-57666-8	G29253.D	04/14/2014 06:59
MW-13S	480-57666-10	G29254.D	04/14/2014 07:22
MW-16S	480-57666-19	G29255.D	04/14/2014 07:45
MW-16D	480-57666-20	G29256.D	04/14/2014 08:08

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

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1
SDG No.: _____
Lab File ID: G29192.D BFB Injection Date: 04/12/2014
Instrument ID: HP5973G BFB Injection Time: 09:03
Analysis Batch No.: 175447

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	26.6
75	30.0 - 60.0 % of mass 95	45.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.5
173	Less than 2.0 % of mass 174	0.8 (1.3)1
174	50.0 - 120.00 % of mass 95	59.7
175	5.0 - 9.0 % of mass 174	4.4 (7.3)1
176	95.0 - 101.0 % of mass 174	58.1 (97.4)1
177	5.0 - 9.0 % of mass 176	3.0 (5.2)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 480-175447/3	G29193.D	04/12/2014	09:28
	LCS 480-175447/5	G29195.D	04/12/2014	10:37
	MB 480-175447/7	G29197.D	04/12/2014	11:22
MW-2	480-57666-1	G29198.D	04/12/2014	12:01
MW-11	480-57666-2	G29199.D	04/12/2014	12:24
MW-10	480-57666-3	G29200.D	04/12/2014	12:47
MW-6	480-57666-4	G29201.D	04/12/2014	13:10
Rinse Blank	480-57666-5	G29202.D	04/12/2014	13:32
Trip	480-57666-6	G29203.D	04/12/2014	13:55
MW-12	480-57666-7	G29204.D	04/12/2014	14:18
MW-9	480-57666-9	G29206.D	04/12/2014	15:04
MW-13D	480-57666-11	G29208.D	04/12/2014	15:49
MW-3	480-57666-12	G29209.D	04/12/2014	16:12
MW-14D	480-57666-13	G29210.D	04/12/2014	16:35
MW-14S	480-57666-14	G29211.D	04/12/2014	16:58
MW-4	480-57666-15	G29212.D	04/12/2014	17:21
MW-8R	480-57666-16	G29213.D	04/12/2014	17:44
MW-15S	480-57666-17	G29214.D	04/12/2014	18:06
MW-15D	480-57666-18	G29215.D	04/12/2014	18:29

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

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1
 SDG No.: _____
 Lab File ID: G29232.D BFB Injection Date: 04/13/2014
 Instrument ID: HP5973G BFB Injection Time: 20:50
 Analysis Batch No.: 175488

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	23.2
75	30.0 - 60.0 % of mass 95	45.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.8
173	Less than 2.0 % of mass 174	0.8 (1.3)1
174	50.0 - 120.00 % of mass 95	61.7
175	5.0 - 9.0 % of mass 174	4.8 (7.7)1
176	95.0 - 101.0 % of mass 174	59.5 (96.4)1
177	5.0 - 9.0 % of mass 176	3.9 (6.5)2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-175488/3	G29233.D	04/13/2014	21:23
	LCS 480-175488/5	G29235.D	04/13/2014	23:39
	MB 480-175488/7	G29237.D	04/14/2014	00:25
Duplicate	480-57666-8	G29253.D	04/14/2014	06:59
MW-13S	480-57666-10	G29254.D	04/14/2014	07:22
MW-16S	480-57666-19	G29255.D	04/14/2014	07:45
MW-16D	480-57666-20	G29256.D	04/14/2014	08:08

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

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1
 SDG No.: _____
 Sample No.: CCVIS 480-175447/3 Date Analyzed: 04/12/2014 09:28
 Instrument ID: HP5973G GC Column: ZB-624 (60) ID: 0.25 (mm)
 Lab File ID (Standard): G29193.D Heated Purge: (Y/N) N
 Calibration ID: 18032

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		659556	5.62	274563	8.61	237637	10.99
UPPER LIMIT		1319112	6.12	549126	9.11	475274	11.49
LOWER LIMIT		329778	5.12	137282	8.11	118819	10.49
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-175447/5		671742	5.61	280243	8.61	236407	10.99
MB 480-175447/7		645519	5.62	269671	8.62	224780	10.99
480-57666-1	MW-2	646130	5.62	267822	8.61	228248	10.99
480-57666-2	MW-11	631760	5.62	269344	8.62	217197	10.99
480-57666-3	MW-10	643273	5.62	269178	8.62	218182	10.99
480-57666-4	MW-6	644284	5.62	261718	8.62	228604	10.99
480-57666-5	Rinse Blank	633610	5.62	262855	8.62	227898	10.99
480-57666-6	Trip	632823	5.62	268713	8.62	223200	10.99
480-57666-7	MW-12	623963	5.62	261255	8.62	223725	10.99
480-57666-9	MW-9	622122	5.62	259960	8.62	220478	10.99
480-57666-11	MW-13D	632249	5.62	261322	8.62	222970	10.99
480-57666-12	MW-3	619295	5.62	261396	8.62	219495	10.99
480-57666-13	MW-14D	640364	5.62	260063	8.62	228179	10.99
480-57666-14	MW-14S	622194	5.62	258969	8.62	225300	10.99
480-57666-15	MW-4	624442	5.62	257867	8.62	220980	10.99
480-57666-16	MW-8R	606689	5.62	255956	8.62	217490	10.99
480-57666-17	MW-15S	619389	5.62	256599	8.62	224714	10.99
480-57666-18	MW-15D	603761	5.62	257909	8.62	224098	10.99

FB = Fluorobenzene (IS)
 CBZ = Chlorobenzene-d5
 DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1
 SDG No.: _____
 Sample No.: CCVIS 480-175488/3 Date Analyzed: 04/13/2014 21:23
 Instrument ID: HP5973G GC Column: ZB-624 (60) ID: 0.25 (mm)
 Lab File ID (Standard): G29233.D Heated Purge: (Y/N) N
 Calibration ID: 18032

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		661277	5.62	272621	8.61	238315	10.99
UPPER LIMIT		1322554	6.12	545242	9.11	476630	11.49
LOWER LIMIT		330639	5.12	136311	8.11	119158	10.49
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-175488/5		639482	5.62	266646	8.62	232147	10.99
MB 480-175488/7		623082	5.62	258389	8.62	220466	10.99
480-57666-8	Duplicate	596473	5.62	247894	8.62	213888	10.99
480-57666-10	MW-13S	593369	5.62	250585	8.62	212205	10.99
480-57666-19	MW-16S	592545	5.62	243399	8.62	214634	10.99
480-57666-20	MW-16D	589366	5.62	243523	8.61	213622	10.99

FB = Fluorobenzene (IS)

CBZ = Chlorobenzene-d5

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: MW-2 Lab Sample ID: 480-57666-1

Matrix: Ground Water Lab File ID: G29198.D

Analysis Method: 8260C Date Collected: 04/07/2014 13:10

Sample wt/vol: 5(mL) Date Analyzed: 04/12/2014 12:01

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.: 175447 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	3.3	J	10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	0.68	J	1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1
 SDG No.: _____
 Client Sample ID: MW-2 Lab Sample ID: 480-57666-1
 Matrix: Ground Water Lab File ID: G29198.D
 Analysis Method: 8260C Date Collected: 04/07/2014 13:10
 Sample wt/vol: 5(mL) Date Analyzed: 04/12/2014 12:01
 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.: 175447 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		66-137
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
2037-26-5	Toluene-d8 (Surr)	98		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29198.D
 Lims ID: 480-57666-A-1 Lab Sample ID: 480-57666-1
 Client ID: MW-2
 Sample Type: Client
 Inject. Date: 12-Apr-2014 12:01:30 ALS Bottle#: 1 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-57666-A-1
 Misc. Info.: 480-0031029-008 =480-0031029-008
 Operator ID: RAL Instrument ID: HP5973G
 Method: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 14-Apr-2014 00:12:27 Calib Date: 10-Apr-2014 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: goliszekg

Date: 14-Apr-2014 00:12:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.0	98	646130	25.0	
* 2 Chlorobenzene-d5	82	8.614	8.620	-0.006	89	267822	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.985	10.985	0.0	97	228248	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.334	5.334	0.0	0	108469	25.8	
\$ 5 Toluene-d8 (Surr)	98	7.132	7.132	0.0	94	610506	24.5	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.863	9.863	0.0	83	149094	24.4	
10 Dichlorodifluoromethane	85		1.450					
12 Chloromethane	50		1.591					
13 Vinyl chloride	62	1.713	1.713	0.0	6	2100	0.1717	
14 Bromomethane	94		2.042					
15 Chloroethane	64	2.139	2.139	0.0	50	4461	0.6821	
17 Trichlorofluoromethane	101		2.383					
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.889					
20 1,1-Dichloroethene	96		2.889					
22 Acetone	43	2.969	2.956	0.012	90	13484	3.34	
24 Carbon disulfide	76		3.103					
28 Methyl acetate	43		3.255					
29 Methylene Chloride	84		3.407					
31 Methyl tert-butyl ether	73		3.584					
32 trans-1,2-Dichloroethene	96		3.596					
36 1,1-Dichloroethane	63		4.005					
43 cis-1,2-Dichloroethene	96	4.566	4.560	0.006	46	2622	0.3574	
44 2-Butanone (MEK)	43		4.584					
50 Chloroform	85		4.870					
51 1,1,1-Trichloroethane	97		4.999					
52 Cyclohexane	56		5.023					
53 Carbon tetrachloride	117		5.151					
56 Benzene	78	5.358	5.352	0.006	50	5629	0.2026	
57 1,2-Dichloroethane	62		5.401					
61 Trichloroethene	95	5.956	5.968	-0.012	57	1598	0.2285	
62 Methylcyclohexane	83		6.102					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
63 1,2-Dichloropropane	63		6.193					
67 Dichlorobromomethane	83		6.480					
72 cis-1,3-Dichloropropene	75		6.901					
73 4-Methyl-2-pentanone (MIBK)	43		7.035					
74 Toluene	92	7.193	7.193	-0.006	61	4456	0.2449	M
76 trans-1,3-Dichloropropene	75		7.461					
79 1,1,2-Trichloroethane	83		7.650					
80 Tetrachloroethene	166		7.742					
82 2-Hexanone	43		7.876					
83 Chlorodibromomethane	129		8.053					
84 Ethylene Dibromide	107		8.156					
86 Chlorobenzene	112		8.650					
89 Ethylbenzene	91		8.742					
90 m-Xylene & p-Xylene	106		8.864					
91 o-Xylene	106		9.290					
92 Styrene	104		9.315					
93 Bromoform	173		9.552					
95 Isopropylbenzene	105		9.674					
98 1,1,2,2-Tetrachloroethane	83		10.040					
110 1,3-Dichlorobenzene	146		10.924					
113 1,4-Dichlorobenzene	146		11.010					
116 1,2-Dichlorobenzene	146		11.357					
117 1,2-Dibromo-3-Chloropropane	75		12.076					
119 1,2,4-Trichlorobenzene	180		12.765					
S 124 Xylenes, Total	1		30.000					

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Buffalo

Data File: \\Bufchrom\\ChromData\\HP5973G\\20140412-31029.b\\G29198.D

Injection Date: 12-Apr-2014 12:01:30

Instrument ID: HP5973G

Operator ID: RAL

Lims ID: 480-57666-A-1

Lab Sample ID: 480-57666-1

Worklist Smp#: 8

Client ID: MW-2

Purge Vol: 5.000 mL

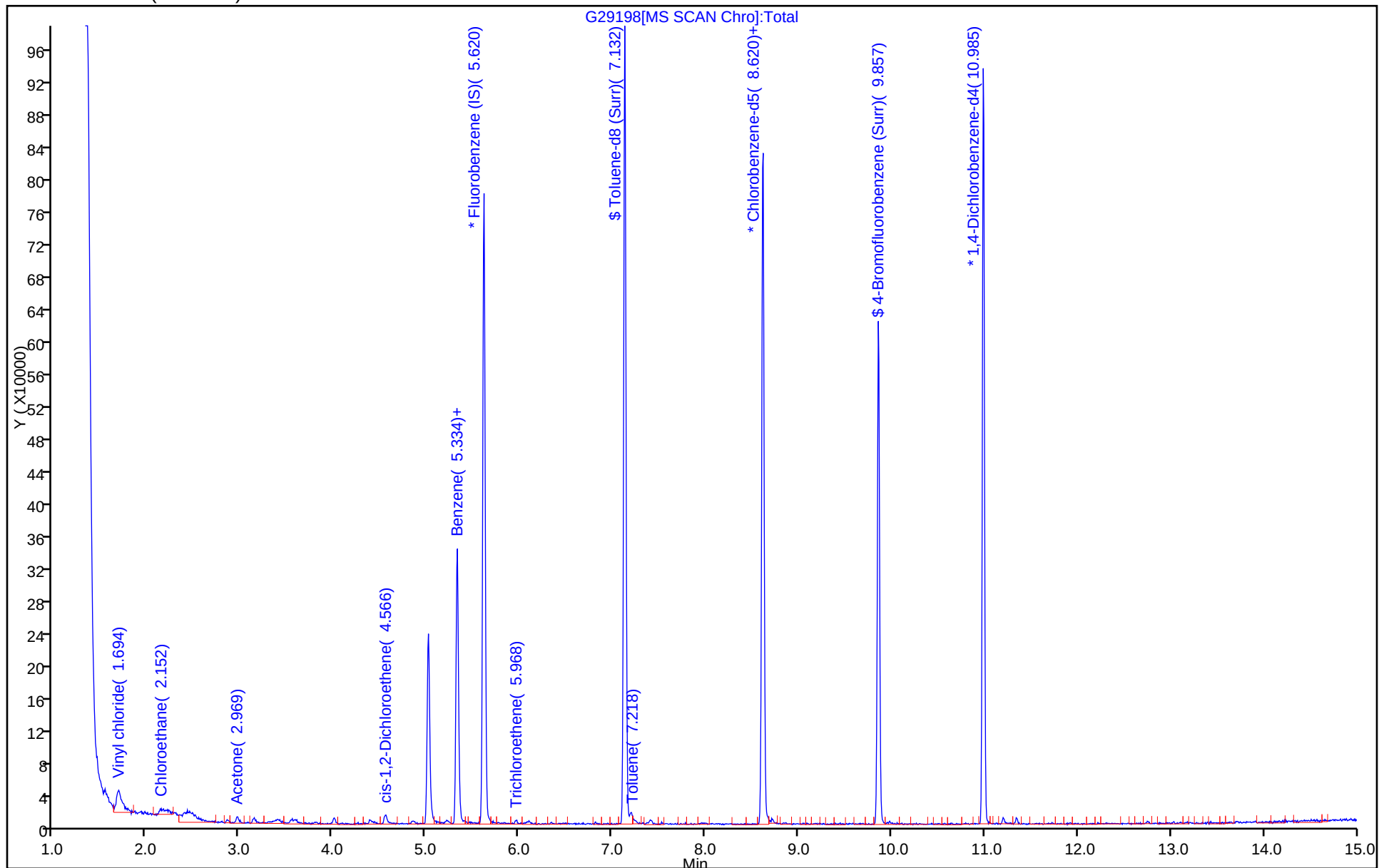
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\\ChromData\\HP5973G\\20140412-31029.b\\G29198.D

Injection Date: 12-Apr-2014 12:01:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-1

Lab Sample ID: 480-57666-1

Client ID: MW-2

Operator ID: RAL

ALS Bottle#: 1

Worklist Smp#: 8

Purge Vol: 5.000 mL

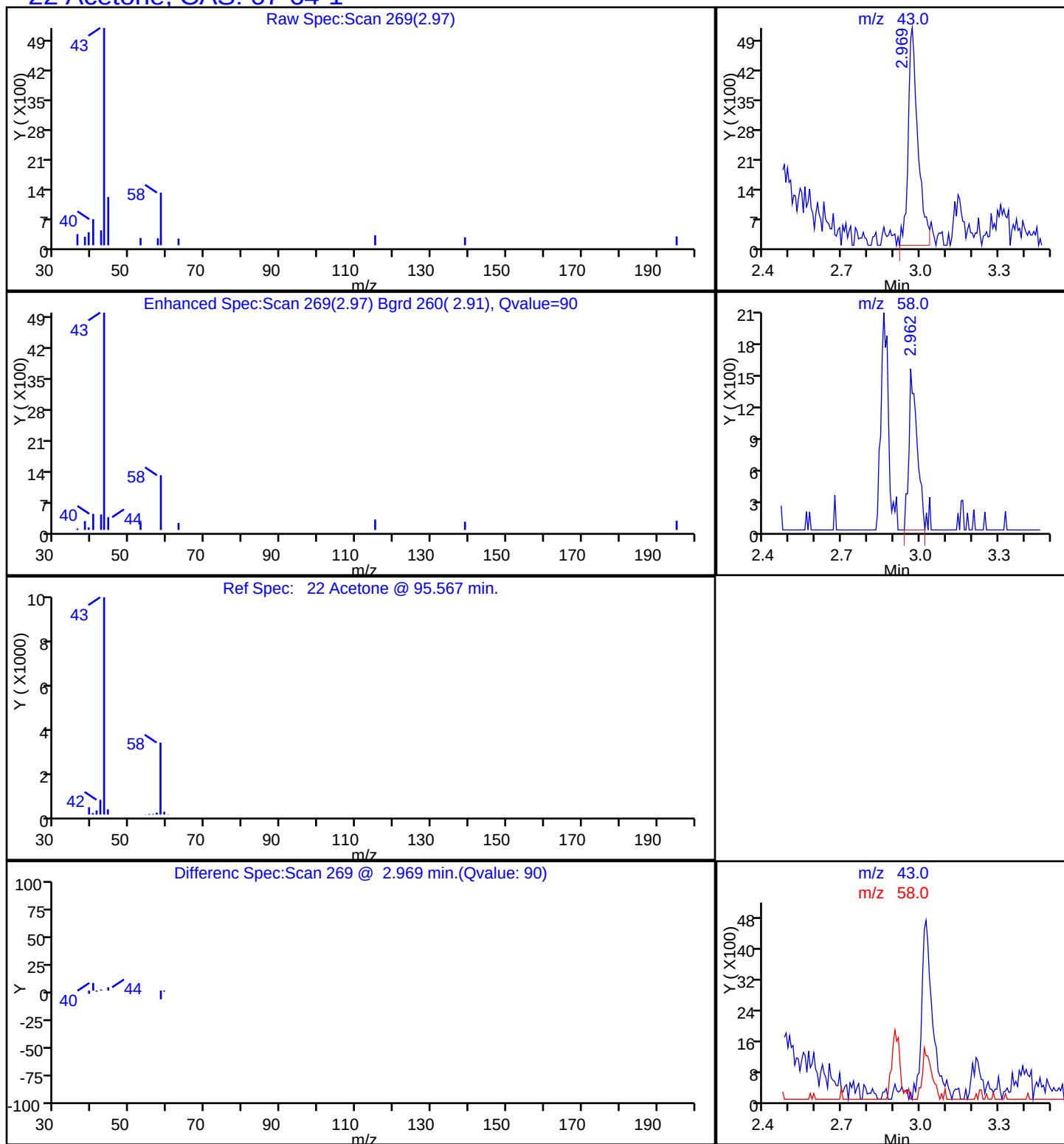
Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

22 Acetone, CAS: 67-64-1

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29198.D

Injection Date: 12-Apr-2014 12:01:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-1

Lab Sample ID: 480-57666-1

Client ID: MW-2

Operator ID: RAL

ALS Bottle#: 1

Worklist Smp#: 8

Purge Vol: 5.000 mL

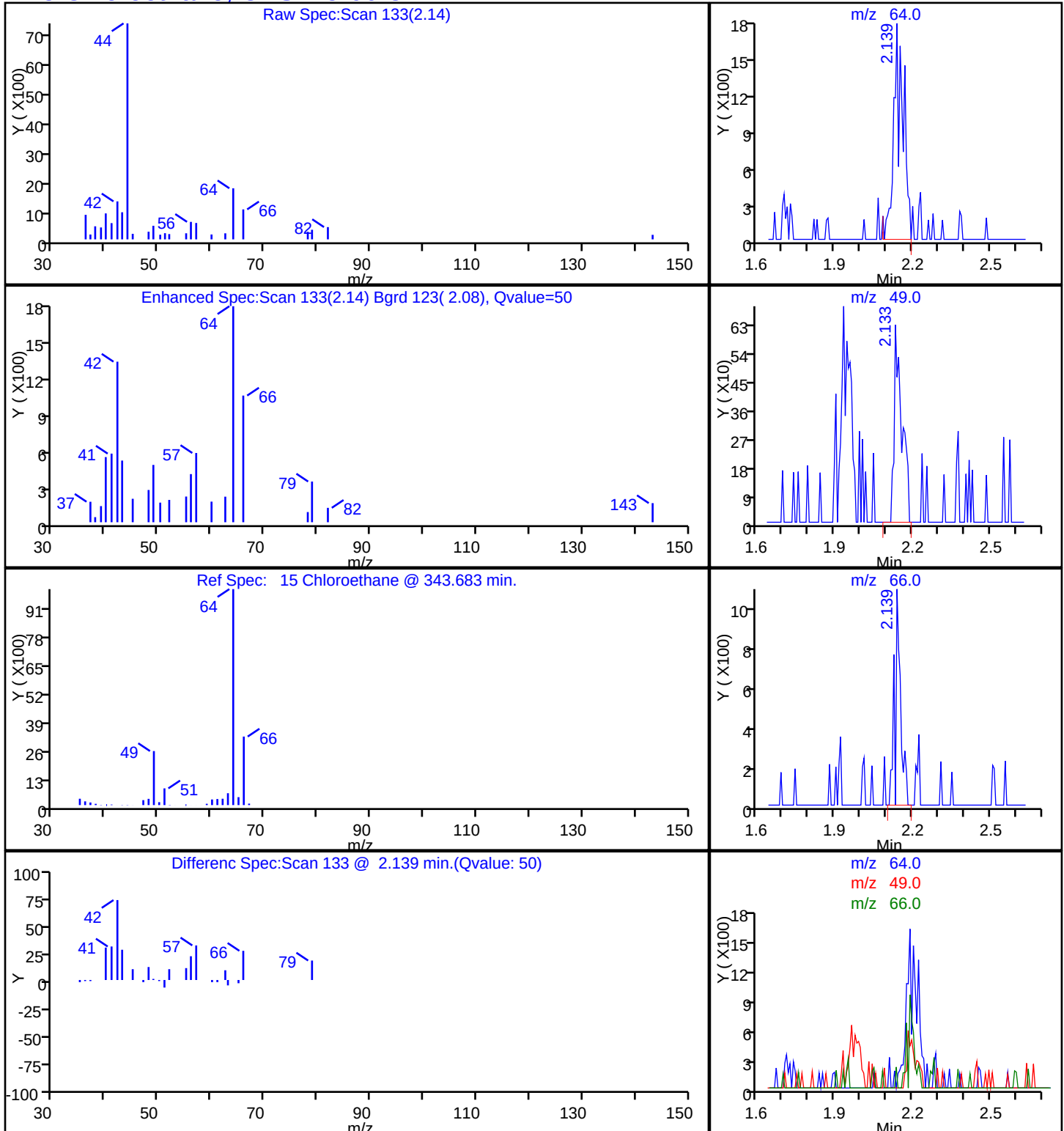
Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29198.D

Injection Date: 12-Apr-2014 12:01:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-1

Lab Sample ID: 480-57666-1

Client ID: MW-2

Operator ID: RAL

ALS Bottle#: 1 Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

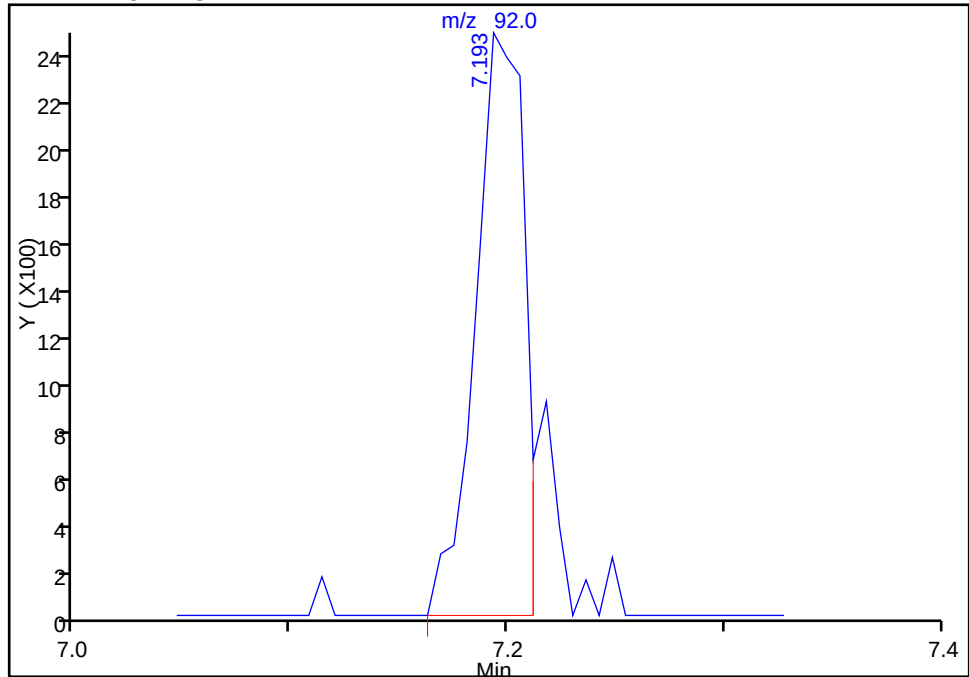
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

74 Toluene, CAS: 108-88-3

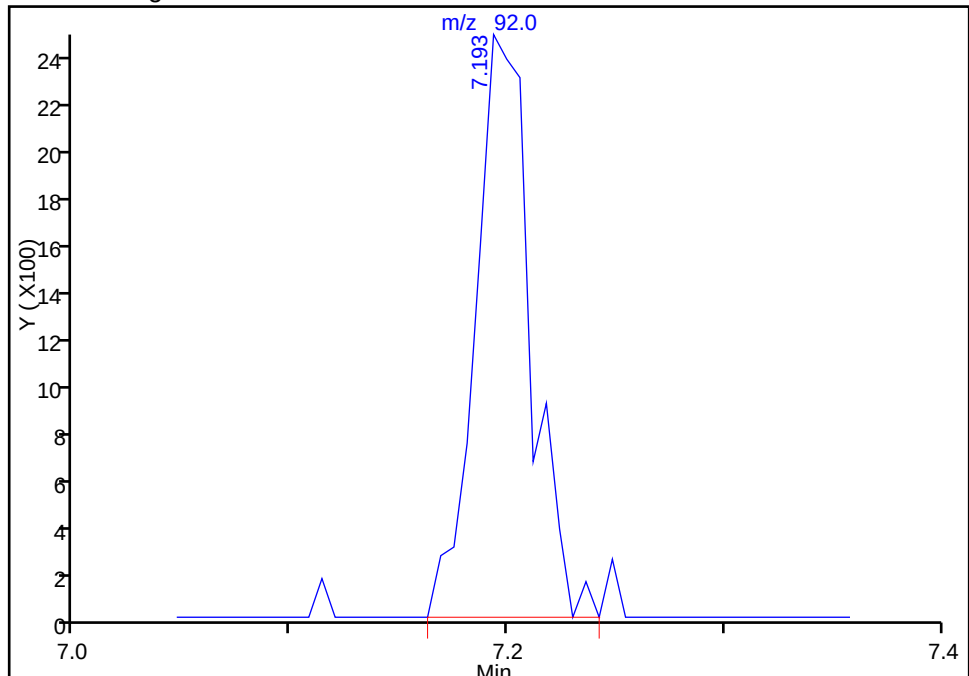
RT: 7.19
Response: 3928
Amount: 0.215897

Processing Integration Results



RT: 7.19
Response: 4456
Amount: 0.244918

Manual Integration Results



Reviewer: goliszekg, 14-Apr-2014 00:12:27

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: MW-11 Lab Sample ID: 480-57666-2

Matrix: Ground Water Lab File ID: G29199.D

Analysis Method: 8260C Date Collected: 04/07/2014 13:50

Sample wt/vol: 5(mL) Date Analyzed: 04/12/2014 12:24

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.: 175447 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	7.1		1.0	0.38
75-35-4	1,1-Dichloroethene	0.85	J	1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	3.7	J	10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	2.3		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	26		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1
 SDG No.: _____
 Client Sample ID: MW-11 Lab Sample ID: 480-57666-2
 Matrix: Ground Water Lab File ID: G29199.D
 Analysis Method: 8260C Date Collected: 04/07/2014 13:50
 Sample wt/vol: 5(mL) Date Analyzed: 04/12/2014 12:24
 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.: 175447 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	4.3		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		66-137
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
2037-26-5	Toluene-d8 (Surr)	98		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29199.D
 Lims ID: 480-57666-A-2 Lab Sample ID: 480-57666-2
 Client ID: MW-11
 Sample Type: Client
 Inject. Date: 12-Apr-2014 12:24:30 ALS Bottle#: 2 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-57666-A-2
 Misc. Info.: 480-0031029-009 =480-0031029-009
 Operator ID: RAL Instrument ID: HP5973G
 Method: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 14-Apr-2014 00:12:27 Calib Date: 10-Apr-2014 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: goliszekg

Date: 14-Apr-2014 00:13:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.0	98	631760	25.0	
* 2 Chlorobenzene-d5	82	8.620	8.620	0.0	89	269344	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.985	10.985	0.0	97	217197	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.334	5.334	0.0	0	103938	25.3	
\$ 5 Toluene-d8 (Surr)	98	7.132	7.132	0.0	94	617051	24.6	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.864	9.863	0.001	82	151646	24.7	
10 Dichlorodifluoromethane	85		1.450					
12 Chloromethane	50		1.591					
13 Vinyl chloride	62	1.707	1.713	-0.006	82	51449	4.30	
14 Bromomethane	94		2.042					
15 Chloroethane	64	2.152	2.139	0.013	85	14574	2.28	
17 Trichlorofluoromethane	101		2.383					
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.889					
20 1,1-Dichloroethene	96	2.895	2.889	0.006	73	7357	0.8475	
22 Acetone	43	2.975	2.956	0.019	93	14531	3.68	
24 Carbon disulfide	76		3.103					
28 Methyl acetate	43		3.255					
29 Methylene Chloride	84		3.407					
31 Methyl tert-butyl ether	73		3.584					
32 trans-1,2-Dichloroethene	96	3.603	3.596	0.007	37	1440	0.2006	
36 1,1-Dichloroethane	63	4.011	4.005	0.006	84	99744	7.06	
43 cis-1,2-Dichloroethene	96	4.566	4.560	0.006	74	183631	25.6	
44 2-Butanone (MEK)	43		4.584					
50 Chloroform	85		4.870					
51 1,1,1-Trichloroethane	97		4.999					
52 Cyclohexane	56		5.023					
53 Carbon tetrachloride	117		5.151					
56 Benzene	78		5.352					
57 1,2-Dichloroethane	62		5.401					
61 Trichloroethene	95		5.968					
62 Methylcyclohexane	83		6.102					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
63 1,2-Dichloropropane	63		6.193					
67 Dichlorobromomethane	83		6.480					
72 cis-1,3-Dichloropropene	75		6.901					
73 4-Methyl-2-pentanone (MIBK)	43		7.035					
74 Toluene	92		7.199					
76 trans-1,3-Dichloropropene	75		7.461					
79 1,1,2-Trichloroethane	83		7.650					
80 Tetrachloroethene	166		7.742					
82 2-Hexanone	43		7.876					
83 Chlorodibromomethane	129		8.053					
84 Ethylene Dibromide	107		8.156					
86 Chlorobenzene	112		8.650					
89 Ethylbenzene	91		8.742					
90 m-Xylene & p-Xylene	106		8.864					
91 o-Xylene	106		9.290					
92 Styrene	104		9.315					
93 Bromoform	173		9.552					
95 Isopropylbenzene	105		9.674					
98 1,1,2,2-Tetrachloroethane	83		10.040					
110 1,3-Dichlorobenzene	146		10.924					
113 1,4-Dichlorobenzene	146		11.010					
116 1,2-Dichlorobenzene	146		11.357					
117 1,2-Dibromo-3-Chloropropane	75		12.076					
119 1,2,4-Trichlorobenzene	180		12.765					
S 124 Xylenes, Total	1		30.000					

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29199.D

Injection Date: 12-Apr-2014 12:24:30

Instrument ID: HP5973G

Operator ID: RAL

Lims ID: 480-57666-A-2

Lab Sample ID: 480-57666-2

Worklist Smp#: 9

Client ID: MW-11

Purge Vol: 5.000 mL

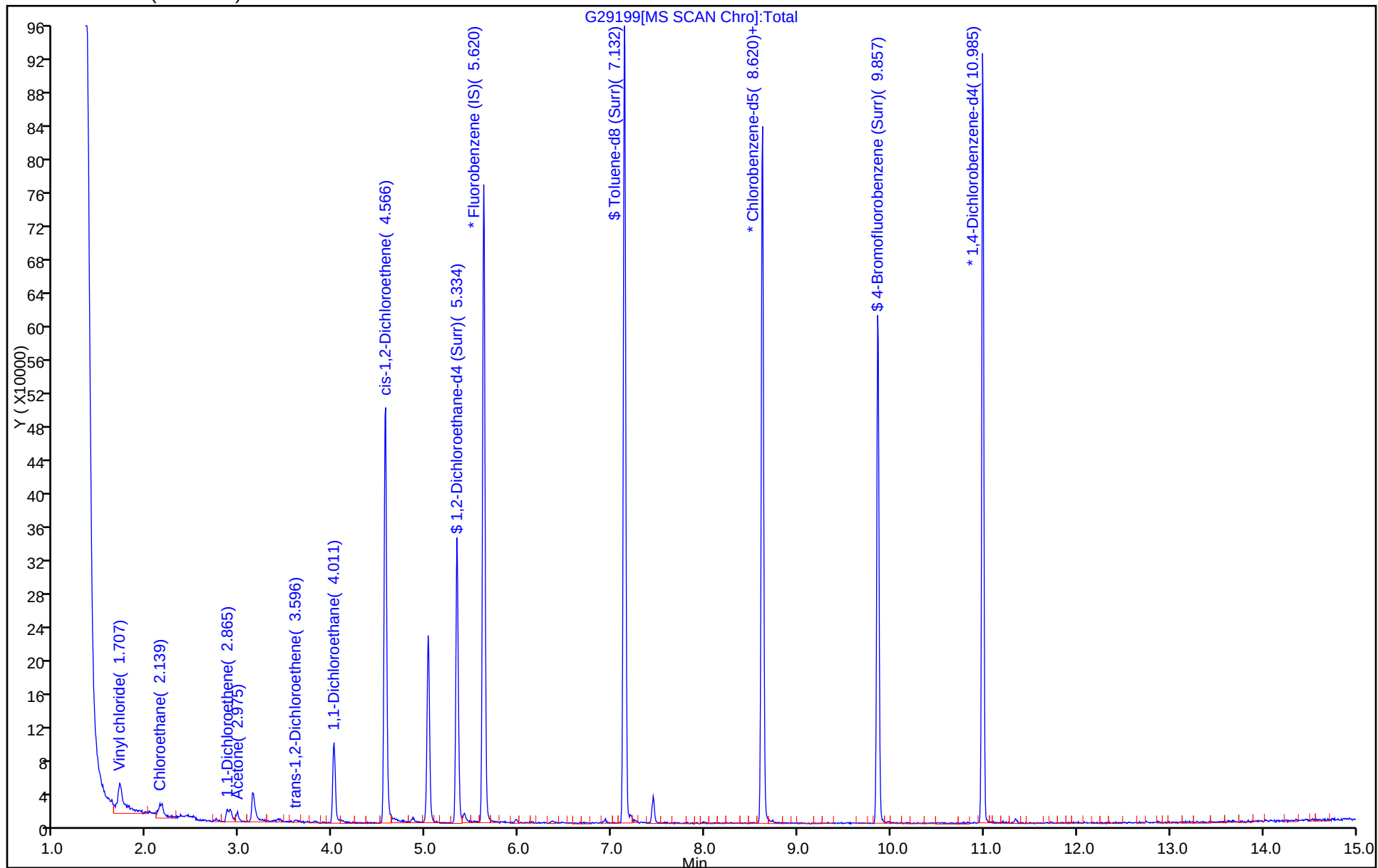
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29199.D

Injection Date: 12-Apr-2014 12:24:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-2

Lab Sample ID: 480-57666-2

Client ID: MW-11

Operator ID: RAL

ALS Bottle#: 2

Worklist Smp#: 9

Purge Vol: 5.000 mL

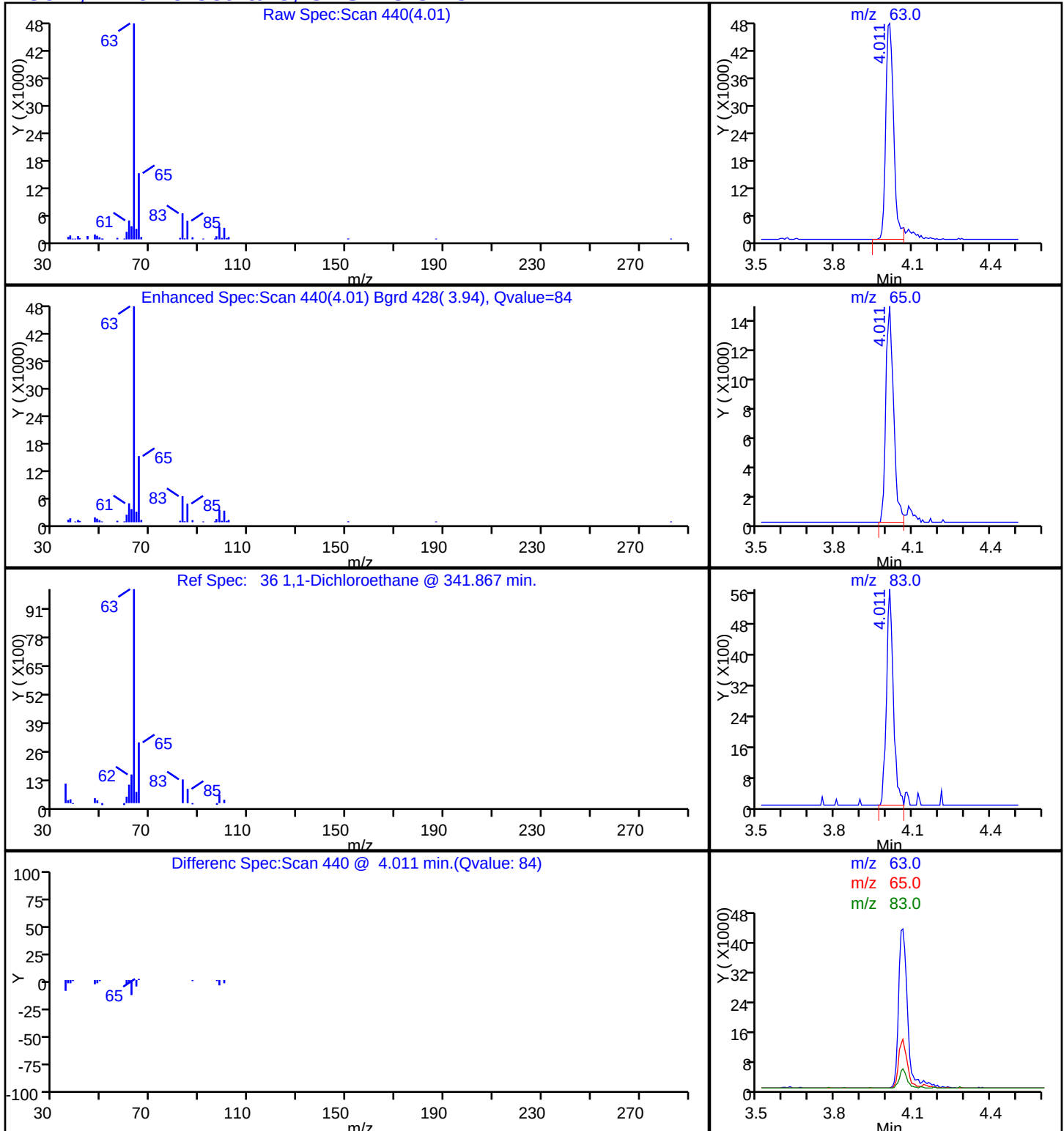
Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29199.D

Injection Date: 12-Apr-2014 12:24:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-2

Lab Sample ID: 480-57666-2

Client ID: MW-11

Operator ID: RAL

ALS Bottle#: 2

Worklist Smp#: 9

Purge Vol: 5.000 mL

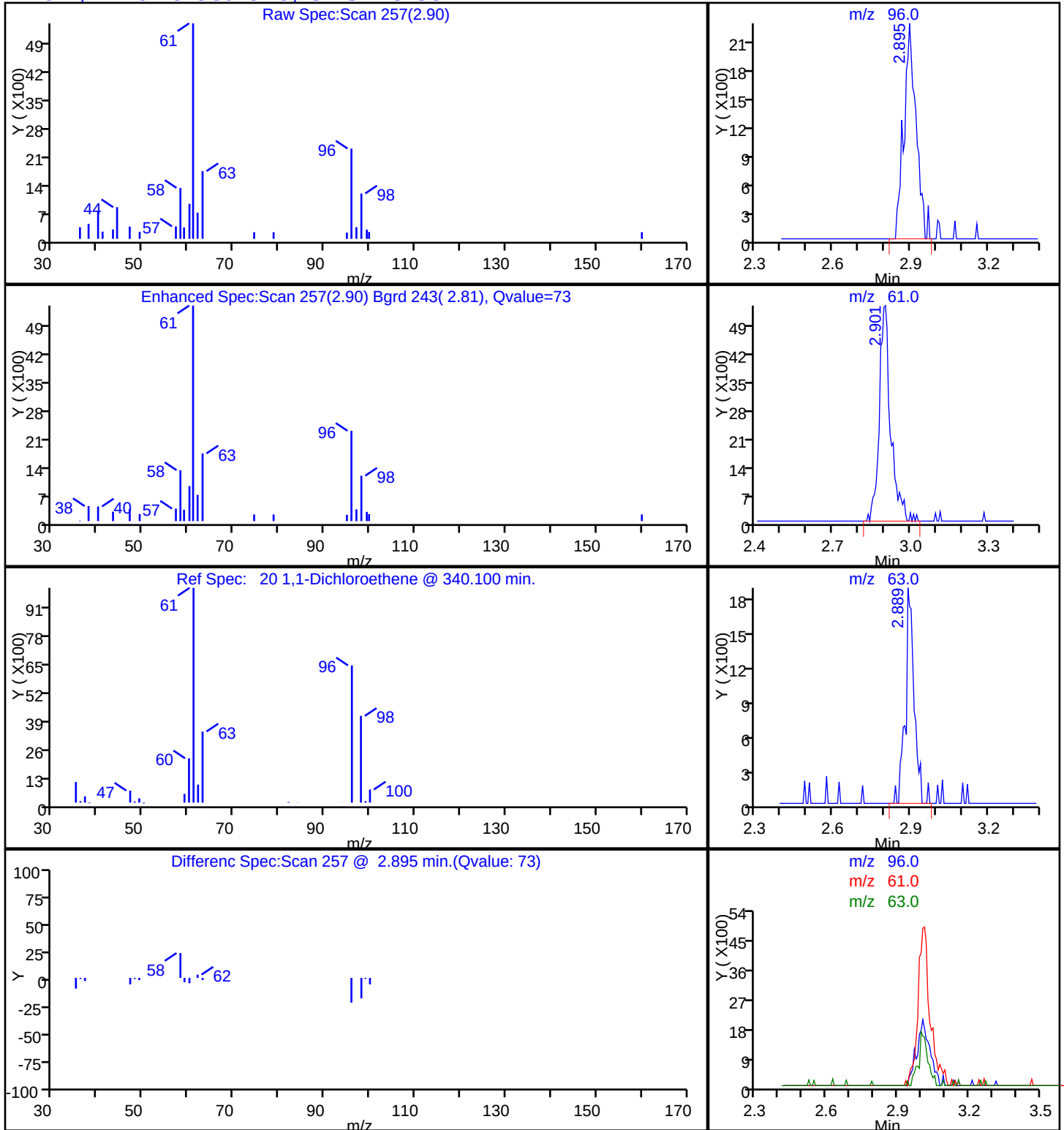
Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

20 1,1-Dichloroethene, CAS: 75-35-4

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29199.D

Injection Date: 12-Apr-2014 12:24:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-2

Lab Sample ID: 480-57666-2

Client ID: MW-11

Operator ID: RAL

ALS Bottle#: 2

Worklist Smp#: 9

Purge Vol: 5.000 mL

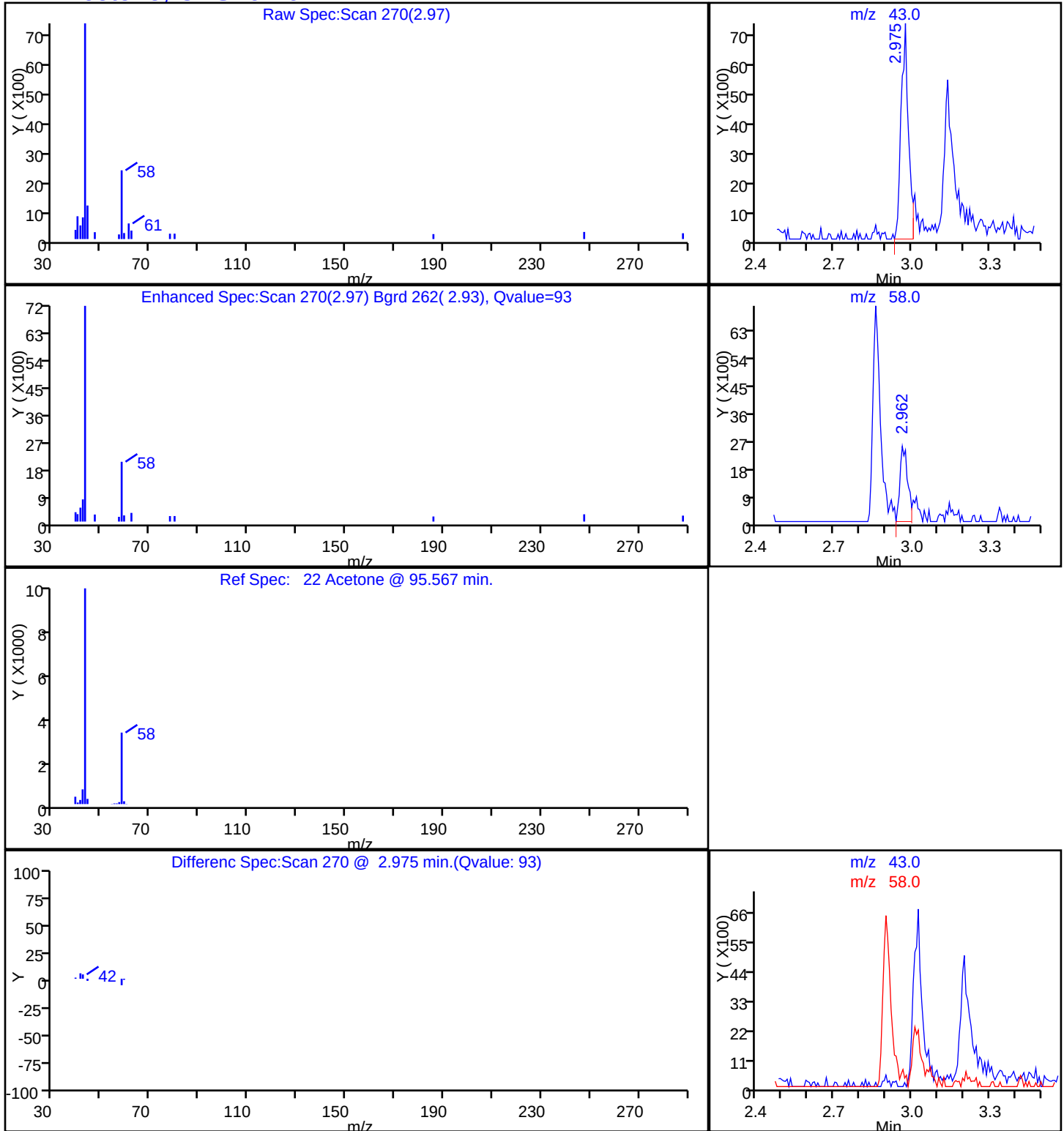
Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

22 Acetone, CAS: 67-64-1

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29199.D

Injection Date: 12-Apr-2014 12:24:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-2

Lab Sample ID: 480-57666-2

Client ID: MW-11

Operator ID: RAL

ALS Bottle#: 2

Worklist Smp#: 9

Purge Vol: 5.000 mL

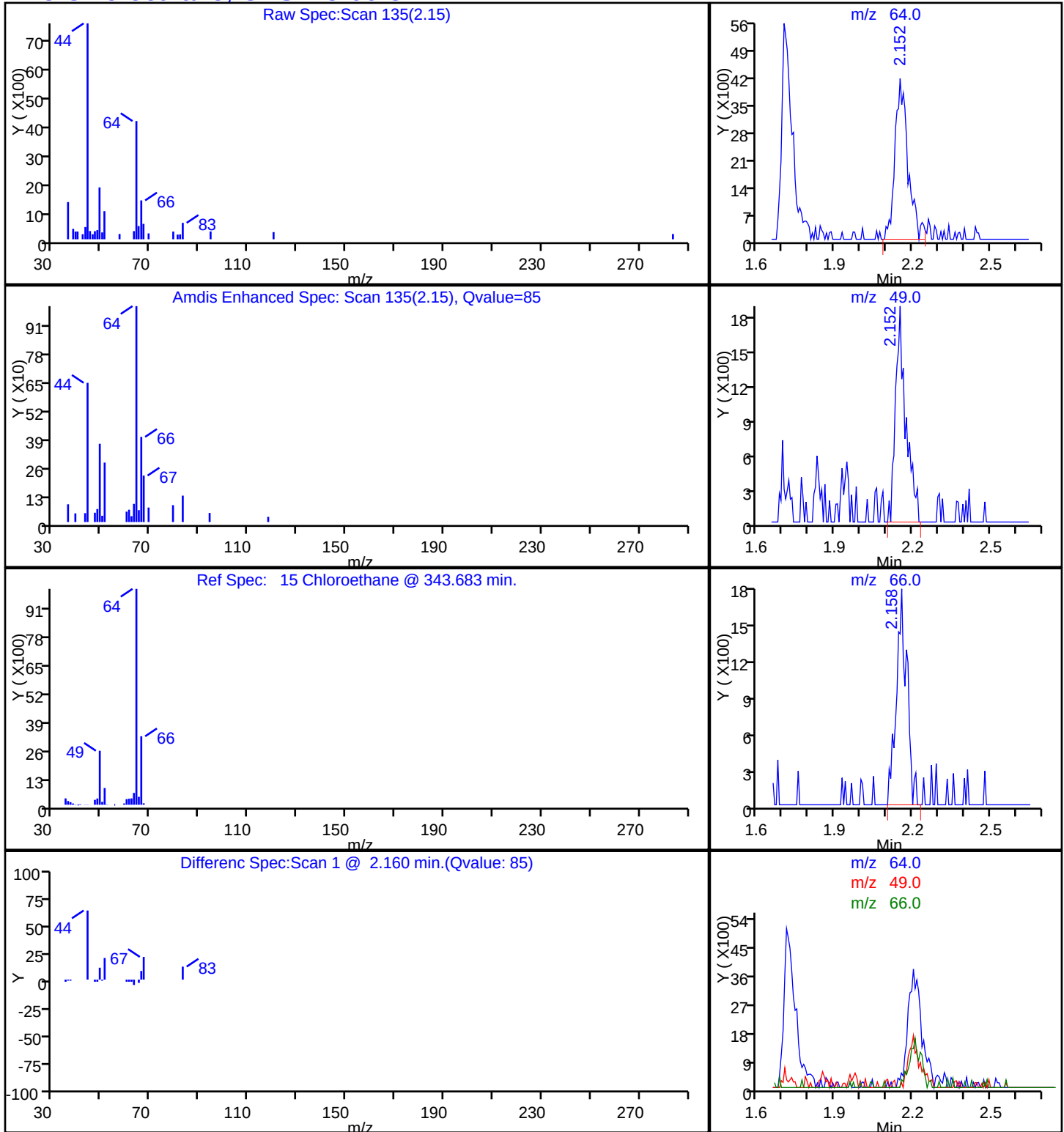
Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29199.D

Injection Date: 12-Apr-2014 12:24:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-2

Lab Sample ID: 480-57666-2

Client ID: MW-11

Operator ID: RAL

ALS Bottle#: 2

Worklist Smp#: 9

Purge Vol: 5.000 mL

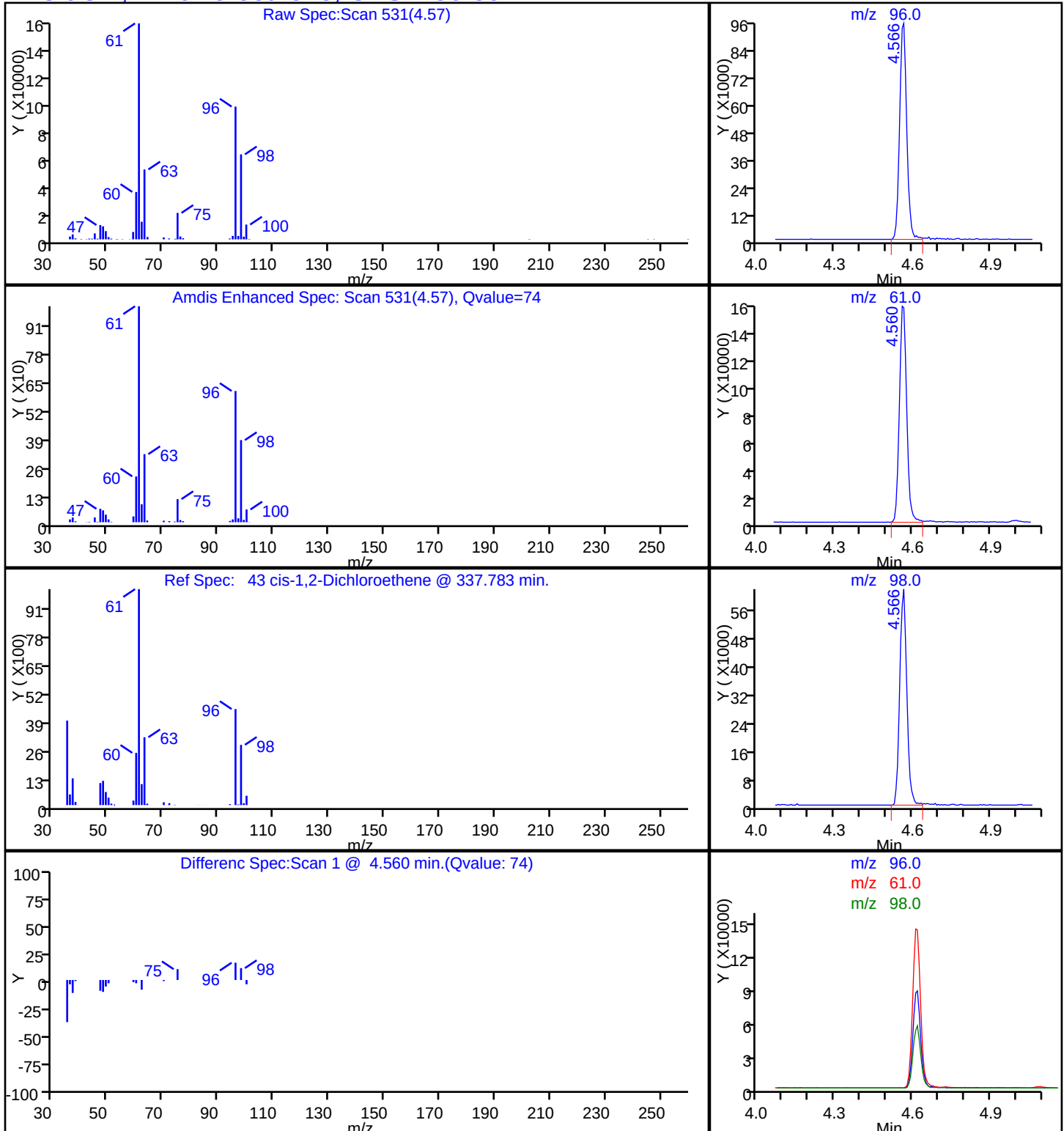
Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29199.D

Injection Date: 12-Apr-2014 12:24:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-2

Lab Sample ID: 480-57666-2

Client ID: MW-11

Operator ID: RAL

ALS Bottle#: 2

Worklist Smp#: 9

Purge Vol: 5.000 mL

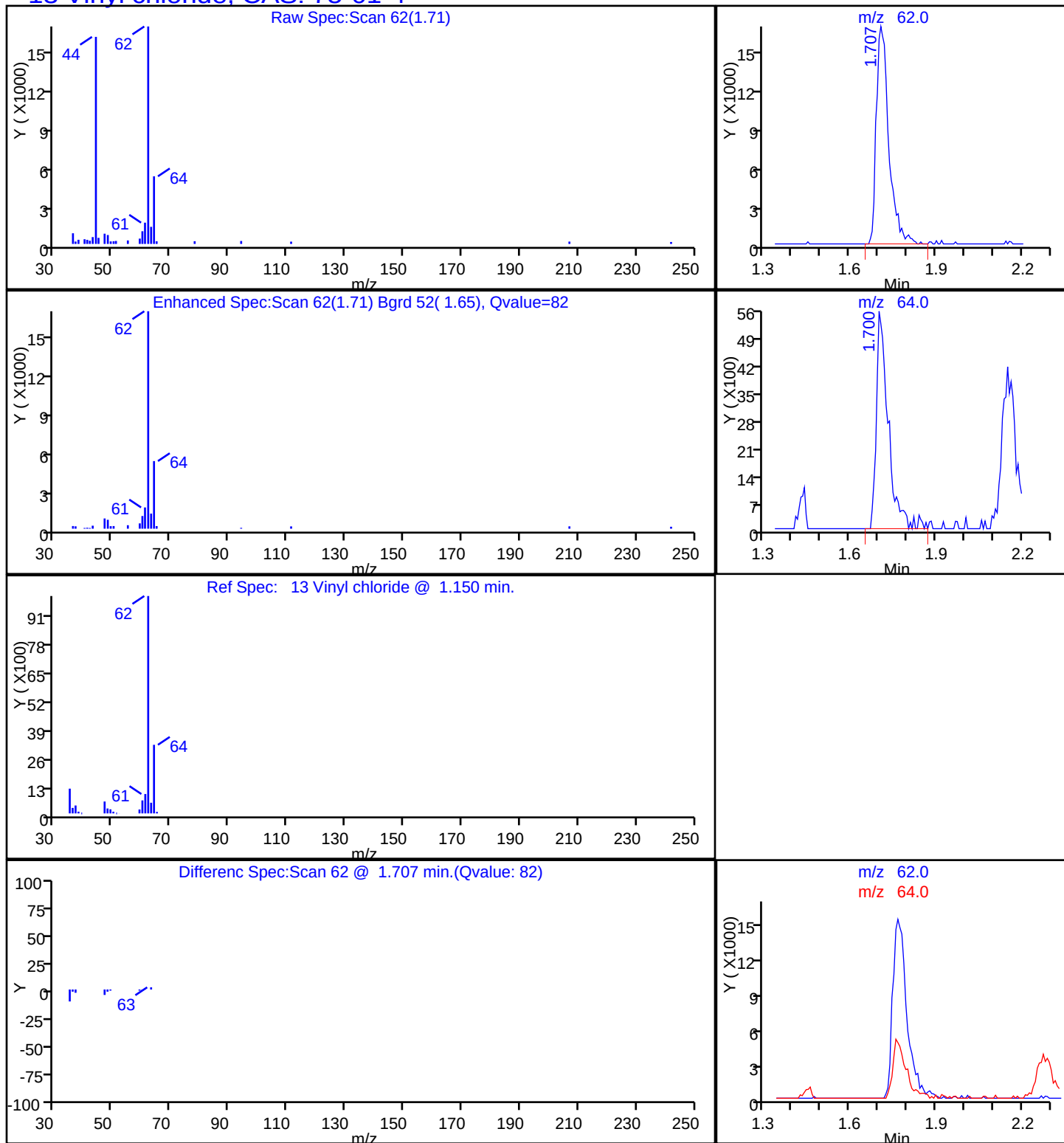
Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: MW-10 Lab Sample ID: 480-57666-3

Matrix: Ground Water Lab File ID: G29200.D

Analysis Method: 8260C Date Collected: 04/07/2014 14:25

Sample wt/vol: 5(mL) Date Analyzed: 04/12/2014 12:47

Soil Aliquot Vol: _____ Dilution Factor: 1

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

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

Analysis Batch No.: 175447 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: MW-10 Lab Sample ID: 480-57666-3

Matrix: Ground Water Lab File ID: G29200.D

Analysis Method: 8260C Date Collected: 04/07/2014 14:25

Sample wt/vol: 5(mL) Date Analyzed: 04/12/2014 12:47

Soil Aliquot Vol: _____ Dilution Factor: 1

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

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

Analysis Batch No.: 175447 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		66-137
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
2037-26-5	Toluene-d8 (Surr)	96		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29200.D
 Lims ID: 480-57666-A-3 Lab Sample ID: 480-57666-3
 Client ID: MW-10
 Sample Type: Client
 Inject. Date: 12-Apr-2014 12:47:30 ALS Bottle#: 3 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-57666-A-3
 Misc. Info.: 480-0031029-010 =480-0031029-010
 Operator ID: RAL Instrument ID: HP5973G
 Method: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 14-Apr-2014 00:12:27 Calib Date: 10-Apr-2014 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: goliszekg

Date: 14-Apr-2014 00:13:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.0	98	643273	25.0	
* 2 Chlorobenzene-d5	82	8.620	8.620	0.0	88	269178	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.991	10.985	0.006	97	218182	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.334	5.334	0.0	0	106337	25.4	
\$ 5 Toluene-d8 (Surr)	98	7.138	7.132	0.006	94	601258	24.0	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.857	9.863	-0.006	80	144503	23.5	
10 Dichlorodifluoromethane	85		1.450					
12 Chloromethane	50		1.591					
13 Vinyl chloride	62		1.713					
14 Bromomethane	94		2.042					
15 Chloroethane	64		2.139					
17 Trichlorofluoromethane	101		2.383					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.889					
20 1,1-Dichloroethene	96		2.889					
22 Acetone	43		2.956					
24 Carbon disulfide	76		3.103					
28 Methyl acetate	43		3.255					
29 Methylene Chloride	84		3.407					
31 Methyl tert-butyl ether	73		3.584					
32 trans-1,2-Dichloroethene	96		3.596					
36 1,1-Dichloroethane	63		4.005					
43 cis-1,2-Dichloroethene	96		4.560					
44 2-Butanone (MEK)	43		4.584					
50 Chloroform	85		4.870					
51 1,1,1-Trichloroethane	97		4.999					
52 Cyclohexane	56		5.023					
53 Carbon tetrachloride	117		5.151					
56 Benzene	78		5.352					
57 1,2-Dichloroethane	62		5.401					
61 Trichloroethene	95		5.968					
62 Methylcyclohexane	83		6.102					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
63 1,2-Dichloropropane	63		6.193					
67 Dichlorobromomethane	83		6.480					
72 cis-1,3-Dichloropropene	75		6.901					
73 4-Methyl-2-pentanone (MIBK)	43		7.035					
74 Toluene	92		7.199					
76 trans-1,3-Dichloropropene	75		7.461					
79 1,1,2-Trichloroethane	83		7.650					
80 Tetrachloroethene	166		7.742					
82 2-Hexanone	43		7.876					
83 Chlorodibromomethane	129		8.053					
84 Ethylene Dibromide	107		8.156					
86 Chlorobenzene	112		8.650					
89 Ethylbenzene	91		8.742					
90 m-Xylene & p-Xylene	106		8.864					
91 o-Xylene	106		9.290					
92 Styrene	104		9.315					
93 Bromoform	173		9.552					
95 Isopropylbenzene	105		9.674					
98 1,1,2,2-Tetrachloroethane	83		10.040					
110 1,3-Dichlorobenzene	146		10.924					
113 1,4-Dichlorobenzene	146		11.010					
116 1,2-Dichlorobenzene	146		11.357					
117 1,2-Dibromo-3-Chloropropane	75		12.076					
119 1,2,4-Trichlorobenzene	180		12.765					
S 124 Xylenes, Total	1		30.000					

TestAmerica Buffalo

Data File: \\Bufchrom\\ChromData\\HP5973G\\20140412-31029.b\\G29200.D

Injection Date: 12-Apr-2014 12:47:30

Instrument ID: HP5973G

Operator ID: RAL

Lims ID: 480-57666-A-3

Lab Sample ID: 480-57666-3

Worklist Smp#: 10

Client ID: MW-10

Purge Vol: 5.000 mL

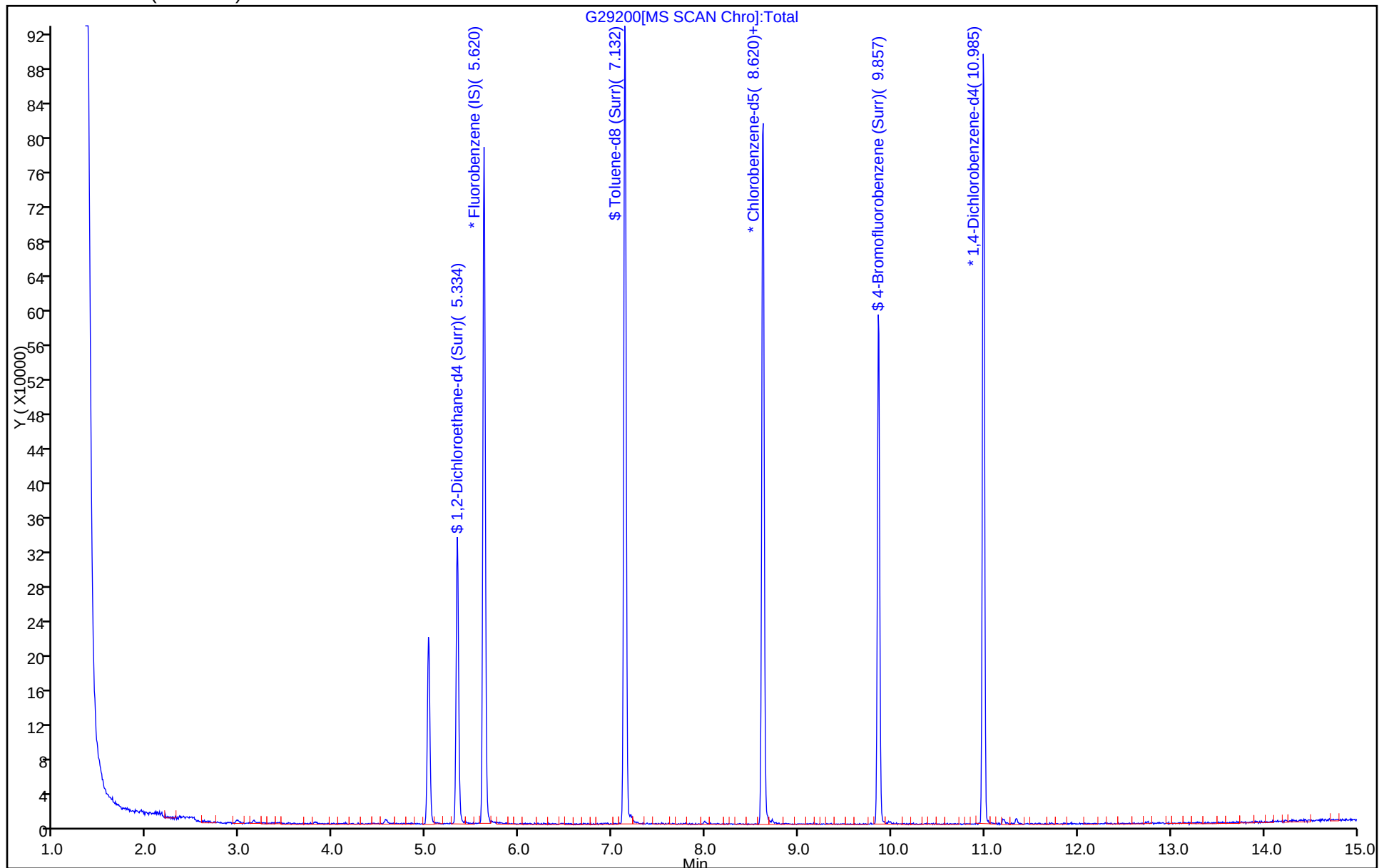
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: MW-6 Lab Sample ID: 480-57666-4

Matrix: Ground Water Lab File ID: G29201.D

Analysis Method: 8260C Date Collected: 04/07/2014 14:50

Sample wt/vol: 5(mL) Date Analyzed: 04/12/2014 13:10

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.: 175447 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1
 SDG No.: _____
 Client Sample ID: MW-6 Lab Sample ID: 480-57666-4
 Matrix: Ground Water Lab File ID: G29201.D
 Analysis Method: 8260C Date Collected: 04/07/2014 14:50
 Sample wt/vol: 5(mL) Date Analyzed: 04/12/2014 13:10
 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.: 175447 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		66-137
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
2037-26-5	Toluene-d8 (Surr)	101		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29201.D
 Lims ID: 480-57666-A-4 Lab Sample ID: 480-57666-4
 Client ID: MW-6
 Sample Type: Client
 Inject. Date: 12-Apr-2014 13:10:30 ALS Bottle#: 4 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-57666-A-4
 Misc. Info.: 480-0031029-011 =480-0031029-011
 Operator ID: RAL Instrument ID: HP5973G
 Method: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 14-Apr-2014 00:12:27 Calib Date: 10-Apr-2014 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: goliszekg

Date: 14-Apr-2014 00:13:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.0	98	644284	25.0	
* 2 Chlorobenzene-d5	82	8.620	8.620	0.0	88	261718	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.991	10.985	0.006	97	228604	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.334	5.334	0.0	0	109043	26.0	
\$ 5 Toluene-d8 (Surr)	98	7.132	7.132	0.0	94	614753	25.2	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.863	9.863	0.0	81	145838	24.4	
10 Dichlorodifluoromethane	85		1.450					
12 Chloromethane	50		1.591					
13 Vinyl chloride	62		1.713					
14 Bromomethane	94		2.042					
15 Chloroethane	64		2.139					
17 Trichlorofluoromethane	101		2.383					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.889					
20 1,1-Dichloroethene	96		2.889					
22 Acetone	43		2.956					
24 Carbon disulfide	76		3.103					
28 Methyl acetate	43		3.255					
29 Methylene Chloride	84		3.407					
31 Methyl tert-butyl ether	73		3.584					
32 trans-1,2-Dichloroethene	96		3.596					
36 1,1-Dichloroethane	63		4.005					
43 cis-1,2-Dichloroethene	96		4.560					
44 2-Butanone (MEK)	43		4.584					
50 Chloroform	85		4.870					
51 1,1,1-Trichloroethane	97		4.999					
52 Cyclohexane	56		5.023					
53 Carbon tetrachloride	117		5.151					
56 Benzene	78		5.352					
57 1,2-Dichloroethane	62		5.401					
61 Trichloroethene	95		5.968					
62 Methylcyclohexane	83		6.102					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
63 1,2-Dichloropropane	63		6.193					
67 Dichlorobromomethane	83		6.480					
72 cis-1,3-Dichloropropene	75		6.901					
73 4-Methyl-2-pentanone (MIBK)	43		7.035					
74 Toluene	92		7.199					
76 trans-1,3-Dichloropropene	75		7.461					
79 1,1,2-Trichloroethane	83		7.650					
80 Tetrachloroethene	166		7.742					
82 2-Hexanone	43		7.876					
83 Chlorodibromomethane	129		8.053					
84 Ethylene Dibromide	107		8.156					
86 Chlorobenzene	112		8.650					
89 Ethylbenzene	91		8.742					
90 m-Xylene & p-Xylene	106		8.864					
91 o-Xylene	106		9.290					
92 Styrene	104		9.315					
93 Bromoform	173		9.552					
95 Isopropylbenzene	105		9.674					
98 1,1,2,2-Tetrachloroethane	83		10.040					
110 1,3-Dichlorobenzene	146		10.924					
113 1,4-Dichlorobenzene	146		11.010					
116 1,2-Dichlorobenzene	146		11.357					
117 1,2-Dibromo-3-Chloropropane	75		12.076					
119 1,2,4-Trichlorobenzene	180		12.765					
S 124 Xylenes, Total	1		30.000					

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29201.D

Injection Date: 12-Apr-2014 13:10:30

Instrument ID: HP5973G

Operator ID: RAL

Lims ID: 480-57666-A-4

Lab Sample ID: 480-57666-4

Worklist Smp#: 11

Client ID: MW-6

Purge Vol: 5.000 mL

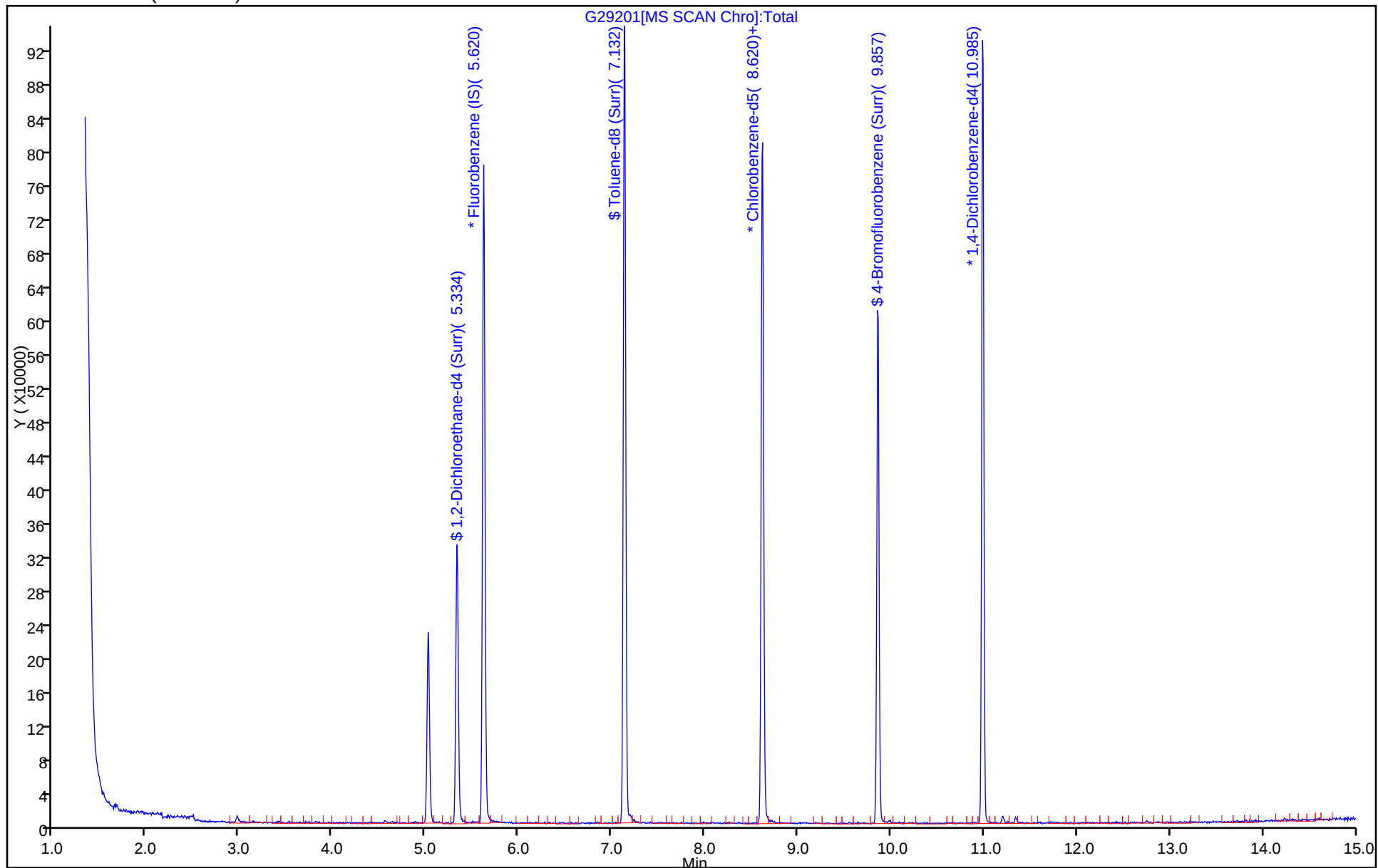
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: Rinse Blank Lab Sample ID: 480-57666-5

Matrix: Water Lab File ID: G29202.D

Analysis Method: 8260C Date Collected: 04/07/2014 08:00

Sample wt/vol: 5(mL) Date Analyzed: 04/12/2014 13:32

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.: 175447 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: Rinse Blank Lab Sample ID: 480-57666-5

Matrix: Water Lab File ID: G29202.D

Analysis Method: 8260C Date Collected: 04/07/2014 08:00

Sample wt/vol: 5(mL) Date Analyzed: 04/12/2014 13:32

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.: 175447 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		66-137
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
2037-26-5	Toluene-d8 (Surr)	99		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29202.D
 Lims ID: 480-57666-A-5 Lab Sample ID: 480-57666-5
 Client ID: Rinse Blank
 Sample Type: Client
 Inject. Date: 12-Apr-2014 13:32:30 ALS Bottle#: 5 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-57666-A-5
 Misc. Info.: 480-0031029-012 =480-0031029-012
 Operator ID: RAL Instrument ID: HP5973G
 Method: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 14-Apr-2014 00:12:27 Calib Date: 10-Apr-2014 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: goliszekg

Date: 14-Apr-2014 00:13:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.0	98	633610	25.0	
* 2 Chlorobenzene-d5	82	8.620	8.620	0.0	88	262855	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.985	10.985	0.0	97	227898	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.334	5.334	0.0	0	104521	25.4	
\$ 5 Toluene-d8 (Surr)	98	7.132	7.132	0.0	95	604016	24.7	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.863	9.863	0.0	82	146053	24.3	
10 Dichlorodifluoromethane	85		1.450					
12 Chloromethane	50		1.591					
13 Vinyl chloride	62		1.713					
14 Bromomethane	94		2.042					
15 Chloroethane	64		2.139					
17 Trichlorofluoromethane	101		2.383					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.889					
20 1,1-Dichloroethene	96		2.889					
22 Acetone	43		2.956					
24 Carbon disulfide	76		3.103					
28 Methyl acetate	43		3.255					
29 Methylene Chloride	84		3.407					
31 Methyl tert-butyl ether	73		3.584					
32 trans-1,2-Dichloroethene	96		3.596					
36 1,1-Dichloroethane	63		4.005					
43 cis-1,2-Dichloroethene	96		4.560					
44 2-Butanone (MEK)	43		4.584					
50 Chloroform	85		4.870					
51 1,1,1-Trichloroethane	97		4.999					
52 Cyclohexane	56		5.023					
53 Carbon tetrachloride	117		5.151					
56 Benzene	78		5.352					
57 1,2-Dichloroethane	62		5.401					
61 Trichloroethene	95		5.968					
62 Methylcyclohexane	83		6.102					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
63 1,2-Dichloropropane	63		6.193					
67 Dichlorobromomethane	83		6.480					
72 cis-1,3-Dichloropropene	75		6.901					
73 4-Methyl-2-pentanone (MIBK)	43		7.035					
74 Toluene	92		7.199					
76 trans-1,3-Dichloropropene	75		7.461					
79 1,1,2-Trichloroethane	83		7.650					
80 Tetrachloroethene	166		7.742					
82 2-Hexanone	43		7.876					
83 Chlorodibromomethane	129		8.053					
84 Ethylene Dibromide	107		8.156					
86 Chlorobenzene	112		8.650					
89 Ethylbenzene	91		8.742					
90 m-Xylene & p-Xylene	106		8.864					
91 o-Xylene	106		9.290					
92 Styrene	104		9.315					
93 Bromoform	173		9.552					
95 Isopropylbenzene	105		9.674					
98 1,1,2,2-Tetrachloroethane	83		10.040					
110 1,3-Dichlorobenzene	146		10.924					
113 1,4-Dichlorobenzene	146		11.010					
116 1,2-Dichlorobenzene	146		11.357					
117 1,2-Dibromo-3-Chloropropane	75		12.076					
119 1,2,4-Trichlorobenzene	180		12.765					
S 124 Xylenes, Total	1		30.000					

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29202.D

Injection Date: 12-Apr-2014 13:32:30

Instrument ID: HP5973G

Operator ID: RAL

Lims ID: 480-57666-A-5

Lab Sample ID: 480-57666-5

Worklist Smp#: 12

Client ID: Rinse Blank

Purge Vol: 5.000 mL

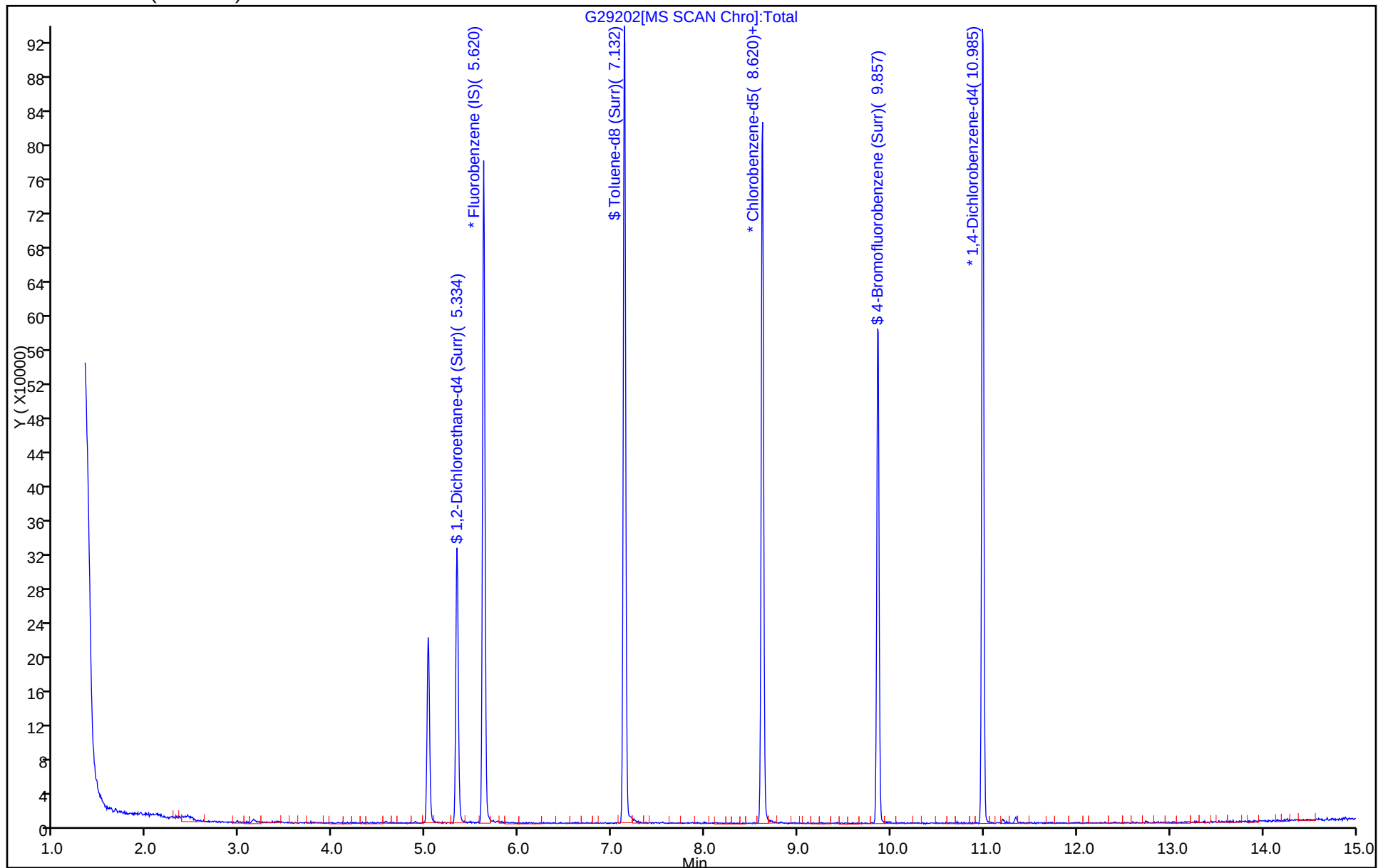
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: Trip Lab Sample ID: 480-57666-6

Matrix: Water Lab File ID: G29203.D

Analysis Method: 8260C Date Collected: 04/07/2014 00:00

Sample wt/vol: 5(mL) Date Analyzed: 04/12/2014 13:55

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.: 175447 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1
 SDG No.: _____
 Client Sample ID: Trip Lab Sample ID: 480-57666-6
 Matrix: Water Lab File ID: G29203.D
 Analysis Method: 8260C Date Collected: 04/07/2014 00:00
 Sample wt/vol: 5(mL) Date Analyzed: 04/12/2014 13:55
 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.: 175447 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		66-137
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120
2037-26-5	Toluene-d8 (Surr)	95		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29203.D
 Lims ID: 480-57666-A-6 Lab Sample ID: 480-57666-6
 Client ID: Trip
 Sample Type: Client
 Inject. Date: 12-Apr-2014 13:55:30 ALS Bottle#: 6 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-57666-A-6
 Misc. Info.: 480-0031029-013 =480-0031029-013
 Operator ID: RAL Instrument ID: HP5973G
 Method: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 14-Apr-2014 00:12:27 Calib Date: 10-Apr-2014 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: goliszekg

Date: 14-Apr-2014 00:13:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.0	98	632823	25.0	
* 2 Chlorobenzene-d5	82	8.620	8.620	0.0	88	268713	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.985	10.985	0.0	97	223200	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.334	5.334	0.0	0	107610	26.2	
\$ 5 Toluene-d8 (Surr)	98	7.132	7.132	0.0	94	596226	23.8	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.863	9.863	0.0	81	146036	23.8	
10 Dichlorodifluoromethane	85		1.450					
12 Chloromethane	50		1.591					
13 Vinyl chloride	62		1.713					
14 Bromomethane	94		2.042					
15 Chloroethane	64		2.139					
17 Trichlorofluoromethane	101		2.383					
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.889					
20 1,1-Dichloroethene	96		2.889					
22 Acetone	43		2.956					
24 Carbon disulfide	76		3.103					
28 Methyl acetate	43		3.255					
29 Methylene Chloride	84	3.407	3.407	0.0	70	4142	0.4275	
31 Methyl tert-butyl ether	73		3.584					
32 trans-1,2-Dichloroethene	96		3.596					
36 1,1-Dichloroethane	63		4.005					
43 cis-1,2-Dichloroethene	96		4.560					
44 2-Butanone (MEK)	43		4.584					
50 Chloroform	85		4.870					
51 1,1,1-Trichloroethane	97		4.999					
52 Cyclohexane	56		5.023					
53 Carbon tetrachloride	117		5.151					
56 Benzene	78		5.352					
57 1,2-Dichloroethane	62		5.401					
61 Trichloroethene	95		5.968					
62 Methylcyclohexane	83		6.102					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
63 1,2-Dichloropropane	63		6.193					
67 Dichlorobromomethane	83		6.480					
72 cis-1,3-Dichloropropene	75		6.901					
73 4-Methyl-2-pentanone (MIBK)	43		7.035					
74 Toluene	92		7.199					
76 trans-1,3-Dichloropropene	75		7.461					
79 1,1,2-Trichloroethane	83		7.650					
80 Tetrachloroethene	166		7.742					
82 2-Hexanone	43		7.876					
83 Chlorodibromomethane	129		8.053					
84 Ethylene Dibromide	107		8.156					
86 Chlorobenzene	112		8.650					
89 Ethylbenzene	91		8.742					
90 m-Xylene & p-Xylene	106		8.864					
91 o-Xylene	106		9.290					
92 Styrene	104		9.315					
93 Bromoform	173		9.552					
95 Isopropylbenzene	105		9.674					
98 1,1,2,2-Tetrachloroethane	83		10.040					
110 1,3-Dichlorobenzene	146		10.924					
113 1,4-Dichlorobenzene	146		11.010					
116 1,2-Dichlorobenzene	146		11.357					
117 1,2-Dibromo-3-Chloropropane	75		12.076					
119 1,2,4-Trichlorobenzene	180		12.765					
S 124 Xylenes, Total	1		30.000					

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29203.D

Injection Date: 12-Apr-2014 13:55:30

Instrument ID: HP5973G

Operator ID: RAL

Lims ID: 480-57666-A-6

Lab Sample ID: 480-57666-6

Worklist Smp#: 13

Client ID: Trip

Purge Vol: 5.000 mL

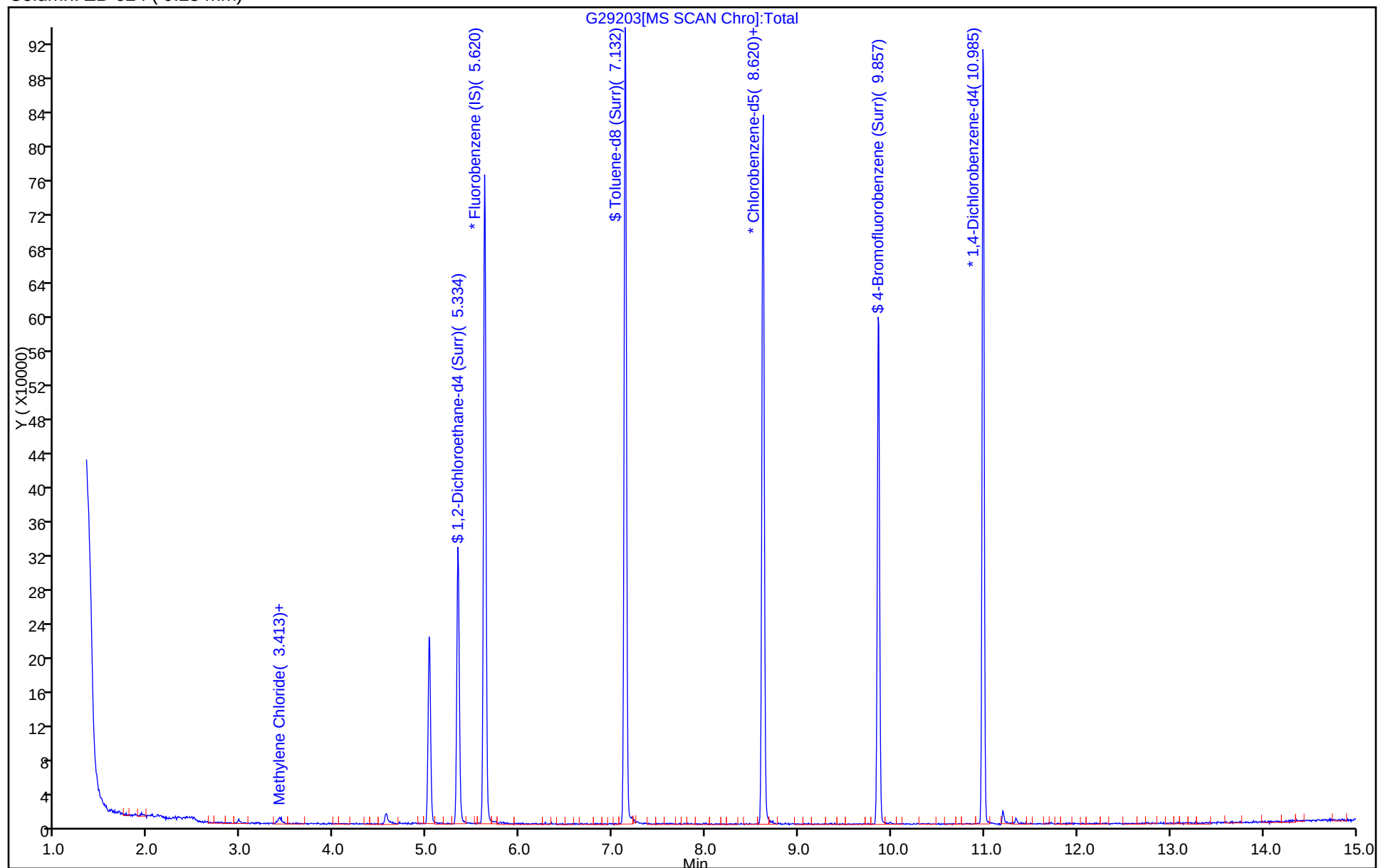
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: MW-12 Lab Sample ID: 480-57666-7

Matrix: Ground Water Lab File ID: G29204.D

Analysis Method: 8260C Date Collected: 04/08/2014 13:15

Sample wt/vol: 5(mL) Date Analyzed: 04/12/2014 14:18

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.: 175447 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	4.8	J	10	3.0
71-43-2	Benzene	0.80	J	1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	11		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: MW-12 Lab Sample ID: 480-57666-7

Matrix: Ground Water Lab File ID: G29204.D

Analysis Method: 8260C Date Collected: 04/08/2014 13:15

Sample wt/vol: 5(mL) Date Analyzed: 04/12/2014 14:18

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.: 175447 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	1.2		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		66-137
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
2037-26-5	Toluene-d8 (Surr)	98		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29204.D
 Lims ID: 480-57666-A-7 Lab Sample ID: 480-57666-7
 Client ID: MW-12
 Sample Type: Client
 Inject. Date: 12-Apr-2014 14:18:30 ALS Bottle#: 7 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-57666-A-7
 Misc. Info.: 480-0031029-014 =480-0031029-014
 Operator ID: RAL Instrument ID: HP5973G
 Method: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 14-Apr-2014 00:12:27 Calib Date: 10-Apr-2014 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: goliszekg

Date: 14-Apr-2014 00:14:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.0	98	623963	25.0	
* 2 Chlorobenzene-d5	82	8.620	8.620	0.0	87	261255	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.985	10.985	0.0	98	223725	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.334	5.334	0.0	0	103916	25.6	
\$ 5 Toluene-d8 (Surr)	98	7.132	7.132	0.0	94	596959	24.6	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.863	9.863	0.0	81	144319	24.2	
10 Dichlorodifluoromethane	85		1.450					
12 Chloromethane	50		1.591					
13 Vinyl chloride	62	1.707	1.713	-0.006	63	14078	1.19	
14 Bromomethane	94		2.042					
15 Chloroethane	64	2.152	2.139	0.013	89	70678	11.2	
17 Trichlorofluoromethane	101		2.383					
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.889					
20 1,1-Dichloroethene	96		2.889					
22 Acetone	43	2.975	2.956	0.019	91	18571	4.76	
24 Carbon disulfide	76		3.103					
28 Methyl acetate	43		3.255					
29 Methylene Chloride	84		3.407					
31 Methyl tert-butyl ether	73		3.584					
32 trans-1,2-Dichloroethene	96		3.596					
36 1,1-Dichloroethane	63		4.005					
43 cis-1,2-Dichloroethene	96		4.560					
44 2-Butanone (MEK)	43		4.584					
50 Chloroform	85		4.870					
51 1,1,1-Trichloroethane	97		4.999					
52 Cyclohexane	56		5.023					
53 Carbon tetrachloride	117		5.151					
56 Benzene	78	5.358	5.352	0.006	94	21558	0.8034	
57 1,2-Dichloroethane	62		5.401					
61 Trichloroethene	95		5.968					
62 Methylcyclohexane	83		6.102					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
63 1,2-Dichloropropane	63		6.193					
67 Dichlorobromomethane	83		6.480					
72 cis-1,3-Dichloropropene	75		6.901					
73 4-Methyl-2-pentanone (MIBK)	43		7.035					
74 Toluene	92		7.199					
76 trans-1,3-Dichloropropene	75		7.461					
79 1,1,2-Trichloroethane	83		7.650					
80 Tetrachloroethene	166		7.742					
82 2-Hexanone	43		7.876					
83 Chlorodibromomethane	129		8.053					
84 Ethylene Dibromide	107		8.156					
86 Chlorobenzene	112		8.650					
89 Ethylbenzene	91		8.742					
90 m-Xylene & p-Xylene	106		8.864					
91 o-Xylene	106		9.290					
92 Styrene	104		9.315					
93 Bromoform	173		9.552					
95 Isopropylbenzene	105		9.674					
98 1,1,2,2-Tetrachloroethane	83		10.040					
110 1,3-Dichlorobenzene	146		10.924					
113 1,4-Dichlorobenzene	146		11.010					
116 1,2-Dichlorobenzene	146		11.357					
117 1,2-Dibromo-3-Chloropropane	75		12.076					
119 1,2,4-Trichlorobenzene	180		12.765					
S 124 Xylenes, Total	1		30.000					

TestAmerica Buffalo

Data File: \\Bufchrom\\ChromData\\HP5973G\\20140412-31029.b\\G29204.D

Injection Date: 12-Apr-2014 14:18:30

Instrument ID: HP5973G

Operator ID: RAL

Lims ID: 480-57666-A-7

Lab Sample ID: 480-57666-7

Worklist Smp#: 14

Client ID: MW-12

Purge Vol: 5.000 mL

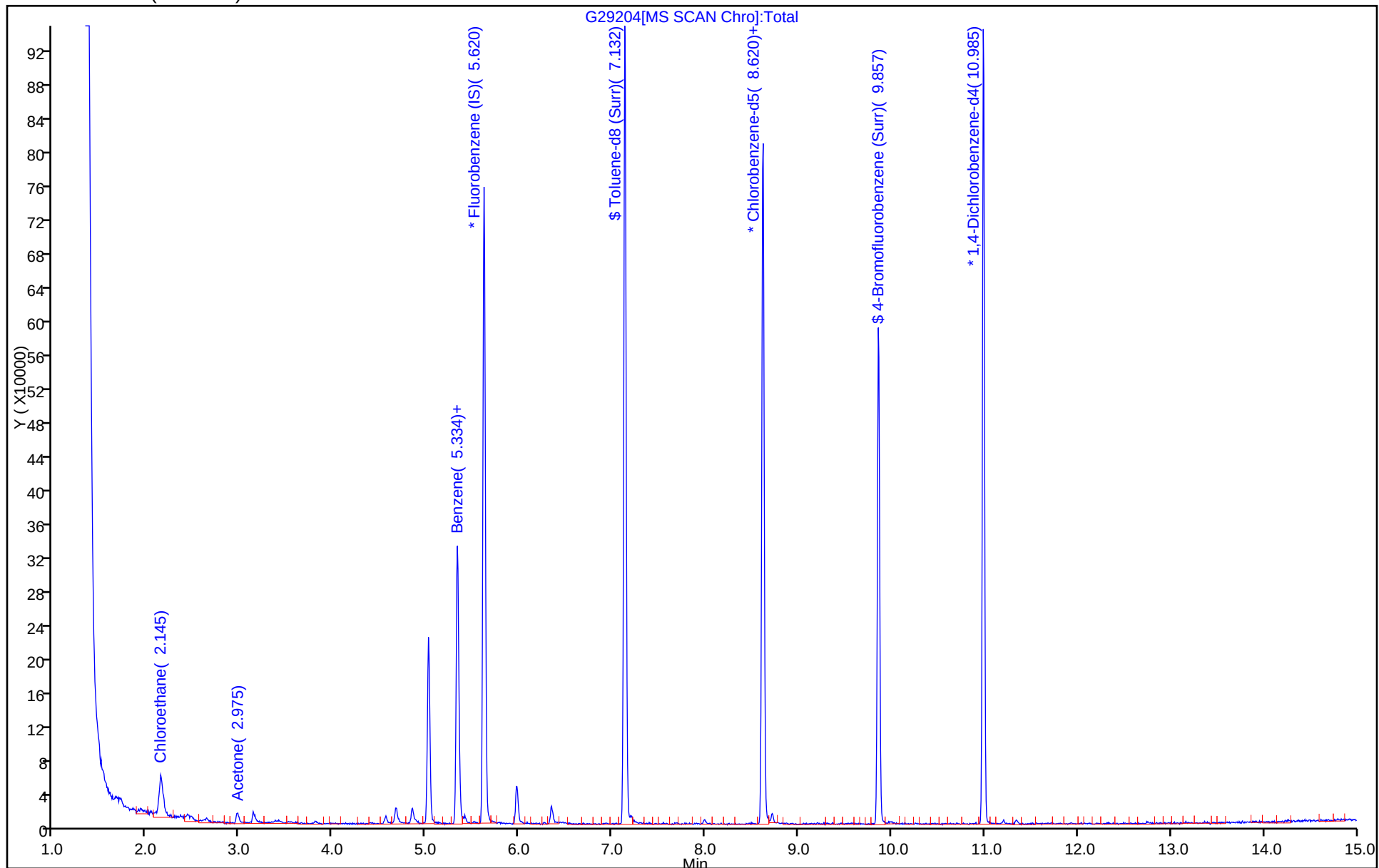
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29204.D

Injection Date: 12-Apr-2014 14:18:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-7

Lab Sample ID: 480-57666-7

Client ID: MW-12

Operator ID: RAL

ALS Bottle#: 7

Worklist Smp#: 14

Purge Vol: 5.000 mL

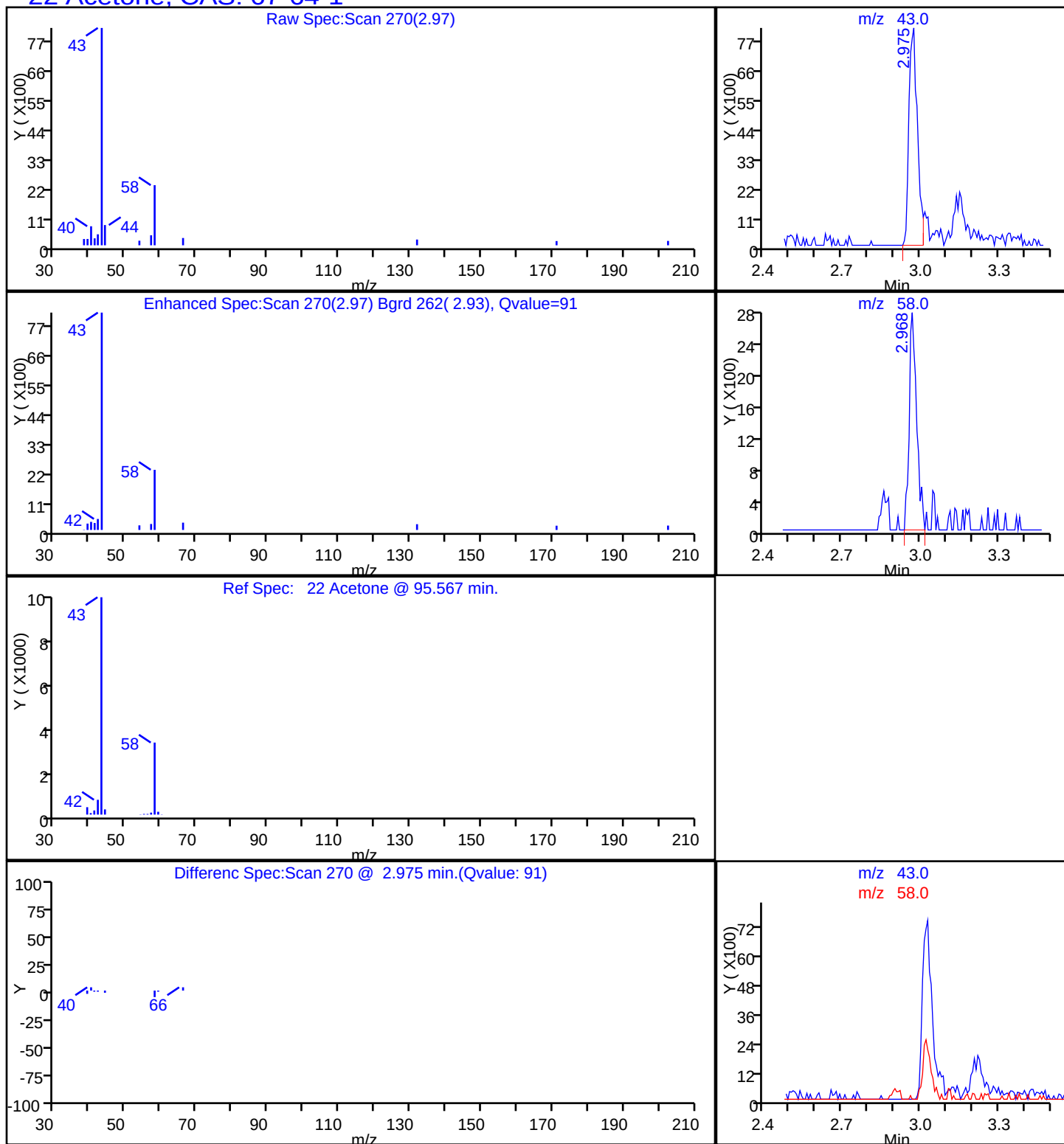
Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

22 Acetone, CAS: 67-64-1

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29204.D

Injection Date: 12-Apr-2014 14:18:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-7

Lab Sample ID: 480-57666-7

Client ID: MW-12

Operator ID: RAL

ALS Bottle#: 7

Worklist Smp#: 14

Purge Vol: 5.000 mL

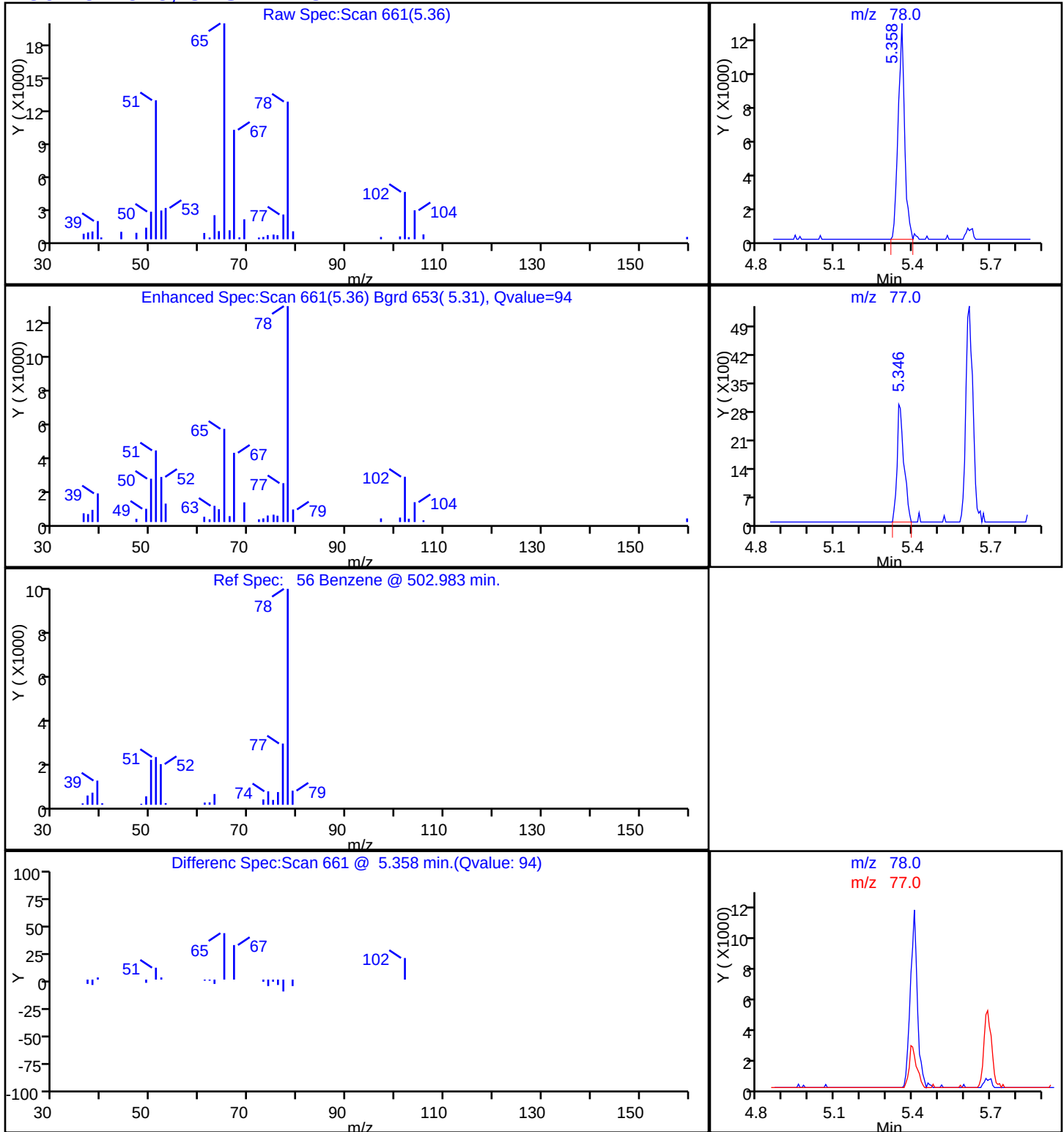
Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

56 Benzene, CAS: 71-43-2

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29204.D

Injection Date: 12-Apr-2014 14:18:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-7

Lab Sample ID: 480-57666-7

Client ID: MW-12

Operator ID: RAL

ALS Bottle#: 7

Worklist Smp#: 14

Purge Vol: 5.000 mL

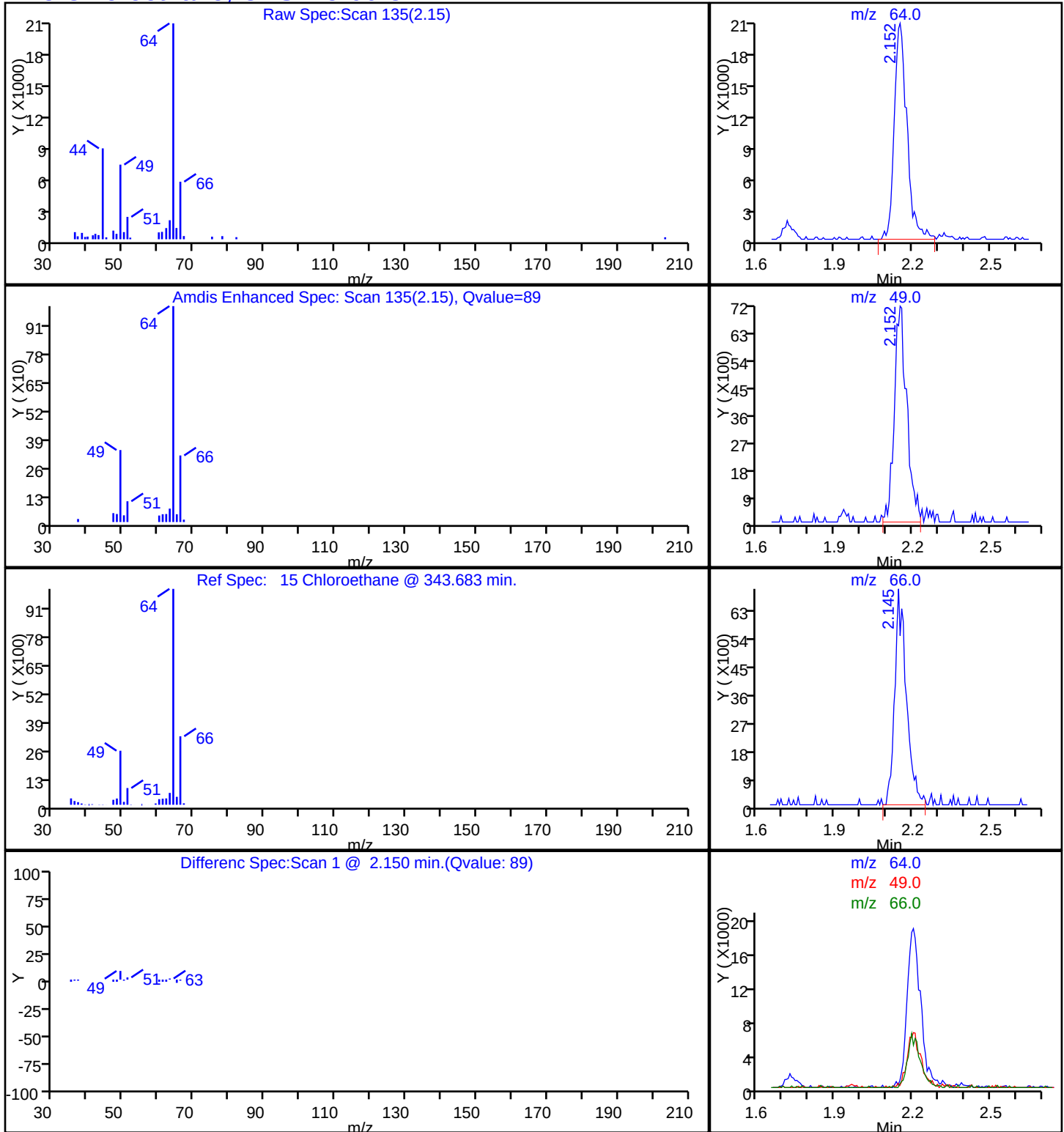
Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29204.D

Injection Date: 12-Apr-2014 14:18:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-7

Lab Sample ID: 480-57666-7

Client ID: MW-12

Operator ID: RAL

ALS Bottle#: 7

Worklist Smp#: 14

Purge Vol: 5.000 mL

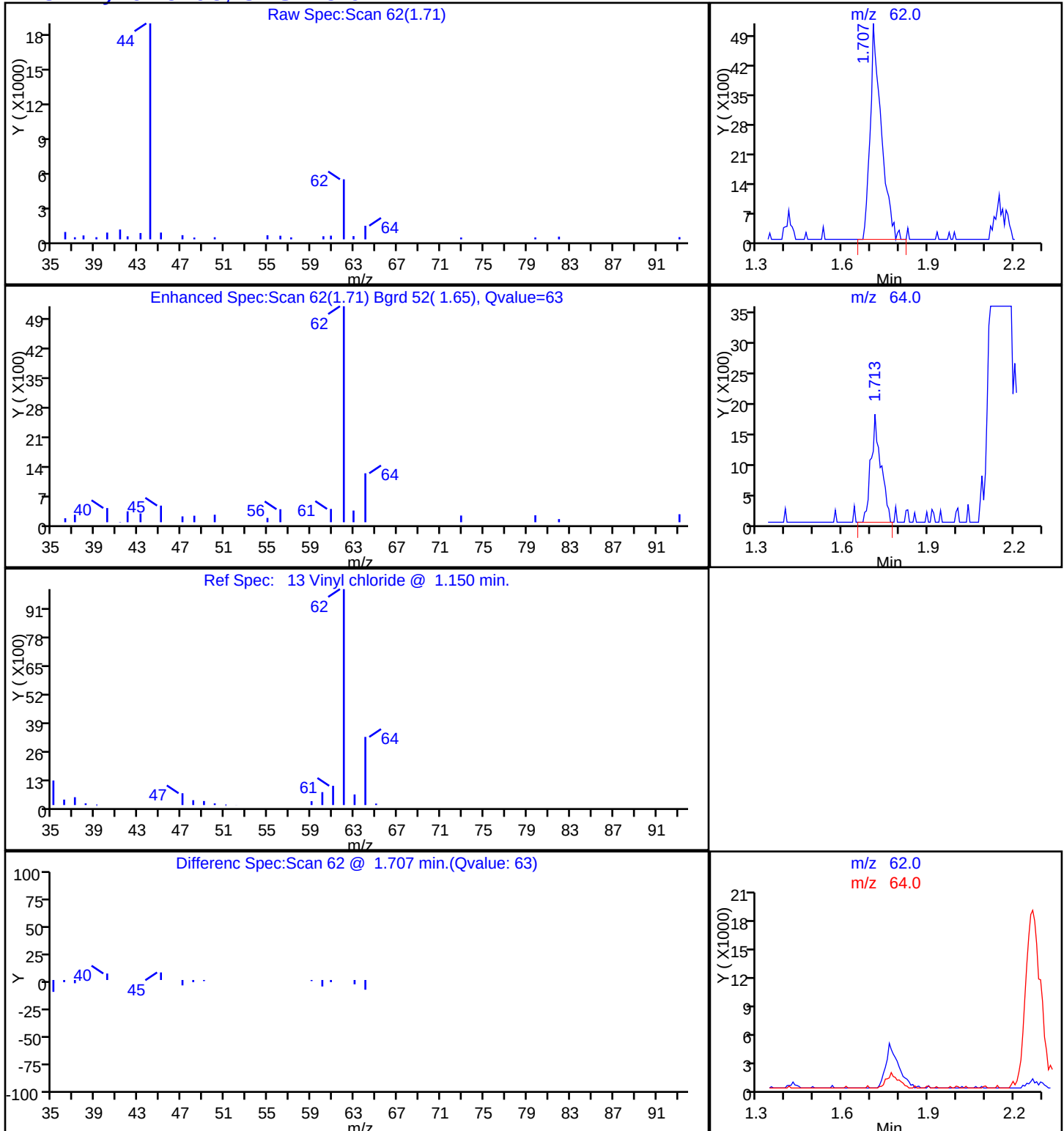
Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: Duplicate Lab Sample ID: 480-57666-8

Matrix: Water Lab File ID: G29253.D

Analysis Method: 8260C Date Collected: 04/08/2014 08:00

Sample wt/vol: 5(mL) Date Analyzed: 04/14/2014 06:59

Soil Aliquot Vol: _____ Dilution Factor: 500

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

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

Analysis Batch No.: 175488 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		500	410
79-34-5	1,1,2,2-Tetrachloroethane	ND		500	110
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		500	160
79-00-5	1,1,2-Trichloroethane	ND		500	120
75-34-3	1,1-Dichloroethane	ND		500	190
75-35-4	1,1-Dichloroethene	150	J	500	150
120-82-1	1,2,4-Trichlorobenzene	ND		500	210
96-12-8	1,2-Dibromo-3-Chloropropane	ND		500	200
106-93-4	1,2-Dibromoethane	ND		500	370
95-50-1	1,2-Dichlorobenzene	ND		500	400
107-06-2	1,2-Dichloroethane	ND		500	110
78-87-5	1,2-Dichloropropane	ND		500	360
541-73-1	1,3-Dichlorobenzene	ND		500	390
106-46-7	1,4-Dichlorobenzene	ND		500	420
78-93-3	2-Butanone (MEK)	ND		5000	660
591-78-6	2-Hexanone	ND		2500	620
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		2500	1100
67-64-1	Acetone	ND		5000	1500
71-43-2	Benzene	ND		500	210
75-27-4	Bromodichloromethane	ND		500	200
75-25-2	Bromoform	ND		500	130
74-83-9	Bromomethane	ND		500	350
75-15-0	Carbon disulfide	ND		500	95
56-23-5	Carbon tetrachloride	ND		500	140
108-90-7	Chlorobenzene	ND		500	380
75-00-3	Chloroethane	ND		500	160
67-66-3	Chloroform	ND		500	170
74-87-3	Chloromethane	ND		500	180
156-59-2	cis-1,2-Dichloroethene	18000		500	410
10061-01-5	cis-1,3-Dichloropropene	ND		500	180
110-82-7	Cyclohexane	ND		500	90
124-48-1	Dibromochloromethane	ND		500	160
75-71-8	Dichlorodifluoromethane	ND		500	340
100-41-4	Ethylbenzene	ND		500	370
98-82-8	Isopropylbenzene	ND		500	400

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: Duplicate Lab Sample ID: 480-57666-8

Matrix: Water Lab File ID: G29253.D

Analysis Method: 8260C Date Collected: 04/08/2014 08:00

Sample wt/vol: 5(mL) Date Analyzed: 04/14/2014 06:59

Soil Aliquot Vol: _____ Dilution Factor: 500

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

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

Analysis Batch No.: 175488 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1300	250
1634-04-4	Methyl tert-butyl ether	ND		500	80
108-87-2	Methylcyclohexane	ND		500	80
75-09-2	Methylene Chloride	ND		500	220
100-42-5	Styrene	ND		500	370
127-18-4	Tetrachloroethene	ND		500	180
108-88-3	Toluene	ND		500	260
156-60-5	trans-1,2-Dichloroethene	ND		500	450
10061-02-6	trans-1,3-Dichloropropene	ND		500	190
79-01-6	Trichloroethene	32000		500	230
75-69-4	Trichlorofluoromethane	ND		500	440
75-01-4	Vinyl chloride	ND		500	450
1330-20-7	Xylenes, Total	ND		1000	330

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		66-137
460-00-4	4-Bromofluorobenzene (Surr)	92		73-120
2037-26-5	Toluene-d8 (Surr)	98		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G29253.D
 Lims ID: 480-57666-B-8 Lab Sample ID: 480-57666-8
 Client ID: Duplicate
 Sample Type: Client
 Inject. Date: 14-Apr-2014 06:59:30 ALS Bottle#: 56 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 500.0000
 Sample Info: 480-57666-B-8
 Misc. Info.: 480-0031036-023 =480-0031036-023
 Operator ID: gtg Instrument ID: HP5973G
 Method: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 14-Apr-2014 09:59:17 Calib Date: 10-Apr-2014 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: larsonr

Date: 14-Apr-2014 10:26:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.0	98	596473	25.0	
* 2 Chlorobenzene-d5	82	8.620	8.620	0.0	88	247894	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.991	10.991	0.0	97	213888	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.334	5.334	0.0	0	102439	26.4	
\$ 5 Toluene-d8 (Surr)	98	7.132	7.132	0.0	95	567326	24.6	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.863	9.863	0.0	80	130315	23.0	
10 Dichlorodifluoromethane	85		1.444					
12 Chloromethane	50		1.591					
13 Vinyl chloride	62	1.694	1.713	-0.019	32	5321	0.4713	
14 Bromomethane	94		2.011					
15 Chloroethane	64		2.152					
17 Trichlorofluoromethane	101		2.383					
20 1,1-Dichloroethene	96	2.889	2.889	0.0	42	2484	0.3031	
21 1,1,2-Trichloro-1,2,2-trifluoro	101		2.895					
22 Acetone	43		2.956					
24 Carbon disulfide	76		3.097					
28 Methyl acetate	43		3.255					
29 Methylene Chloride	84	3.438	3.407	0.031	23	1934	0.2118	
31 Methyl tert-butyl ether	73		3.584					
32 trans-1,2-Dichloroethene	96		3.596					
36 1,1-Dichloroethane	63		4.005					
43 cis-1,2-Dichloroethene	96	4.566	4.560	0.006	74	240001	35.4	
44 2-Butanone (MEK)	43		4.590					
50 Chloroform	85		4.871					
51 1,1,1-Trichloroethane	97		4.999					
52 Cyclohexane	56		5.029					
53 Carbon tetrachloride	117		5.145					
56 Benzene	78		5.352					
57 1,2-Dichloroethane	62		5.401					
61 Trichloroethene	95	5.968	5.962	0.006	93	408250	63.2	
62 Methylcyclohexane	83		6.102					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
63 1,2-Dichloropropane	63		6.193					
67 Dichlorobromomethane	83		6.480					
72 cis-1,3-Dichloropropene	75		6.901					
73 4-Methyl-2-pentanone (MIBK)	43		7.035					
74 Toluene	92		7.199					
76 trans-1,3-Dichloropropene	75		7.462					
79 1,1,2-Trichloroethane	83		7.651					
80 Tetrachloroethene	166		7.742					
82 2-Hexanone	43		7.876					
83 Chlorodibromomethane	129		8.053					
84 Ethylene Dibromide	107		8.163					
86 Chlorobenzene	112		8.650					
89 Ethylbenzene	91		8.742					
90 m-Xylene & p-Xylene	106		8.864					
91 o-Xylene	106		9.290					
92 Styrene	104		9.321					
93 Bromoform	173		9.553					
95 Isopropylbenzene	105		9.674					
98 1,1,2,2-Tetrachloroethane	83		10.040					
110 1,3-Dichlorobenzene	146		10.924					
113 1,4-Dichlorobenzene	146		11.010					
116 1,2-Dichlorobenzene	146		11.363					
117 1,2-Dibromo-3-Chloropropane	75		12.076					
119 1,2,4-Trichlorobenzene	180		12.765					
S 124 Xylenes, Total	1		30.000					

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G29253.D

Injection Date: 14-Apr-2014 06:59:30

Instrument ID: HP5973G

Operator ID: gtg

Lims ID: 480-57666-B-8

Lab Sample ID: 480-57666-8

Worklist Smp#: 23

Client ID: Duplicate

Purge Vol: 5.000 mL

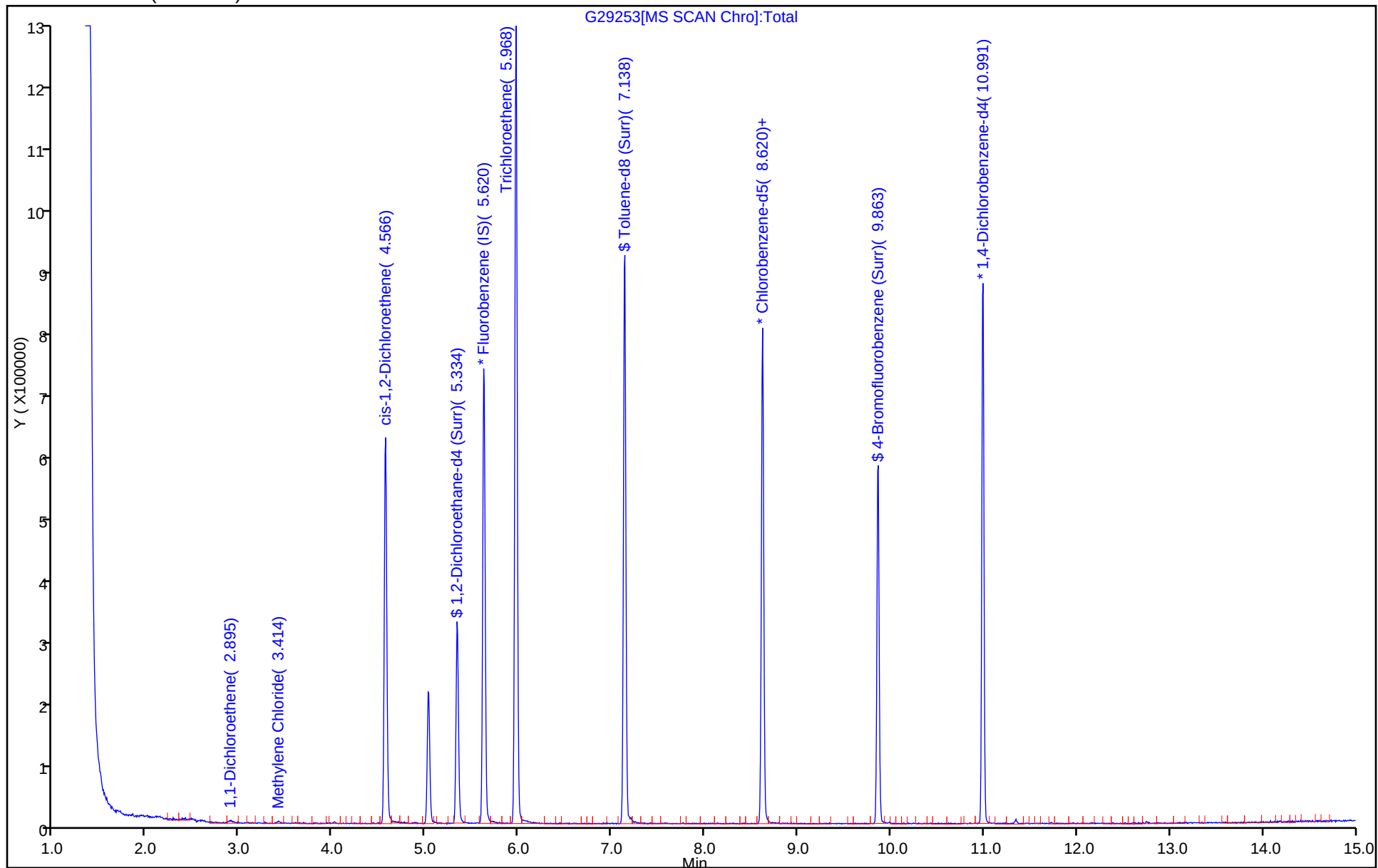
Dil. Factor: 500.0000

ALS Bottle#: 56

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G29253.D

Injection Date: 14-Apr-2014 06:59:30

Instrument ID: HP5973G

Lims ID: 480-57666-B-8

Lab Sample ID: 480-57666-8

Client ID: Duplicate

Operator ID: gtg

ALS Bottle#: 56

Worklist Smp#: 23

Purge Vol: 5.000 mL

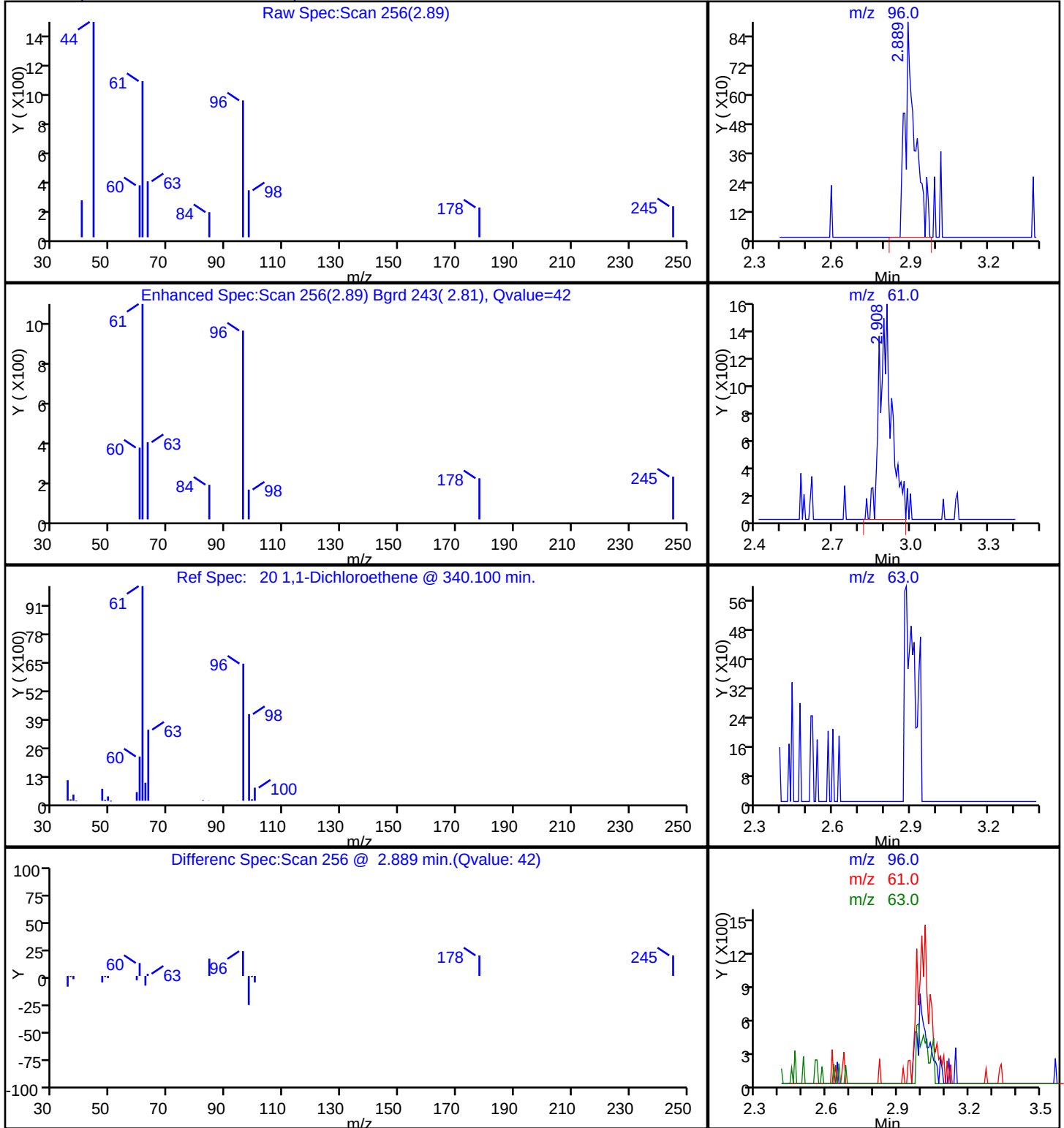
Dil. Factor: 500.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

20 1,1-Dichloroethene, CAS: 75-35-4

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G29253.D

Injection Date: 14-Apr-2014 06:59:30

Instrument ID: HP5973G

Lims ID: 480-57666-B-8

Lab Sample ID: 480-57666-8

Client ID: Duplicate

Operator ID: gtg

ALS Bottle#: 56

Worklist Smp#: 23

Purge Vol: 5.000 mL

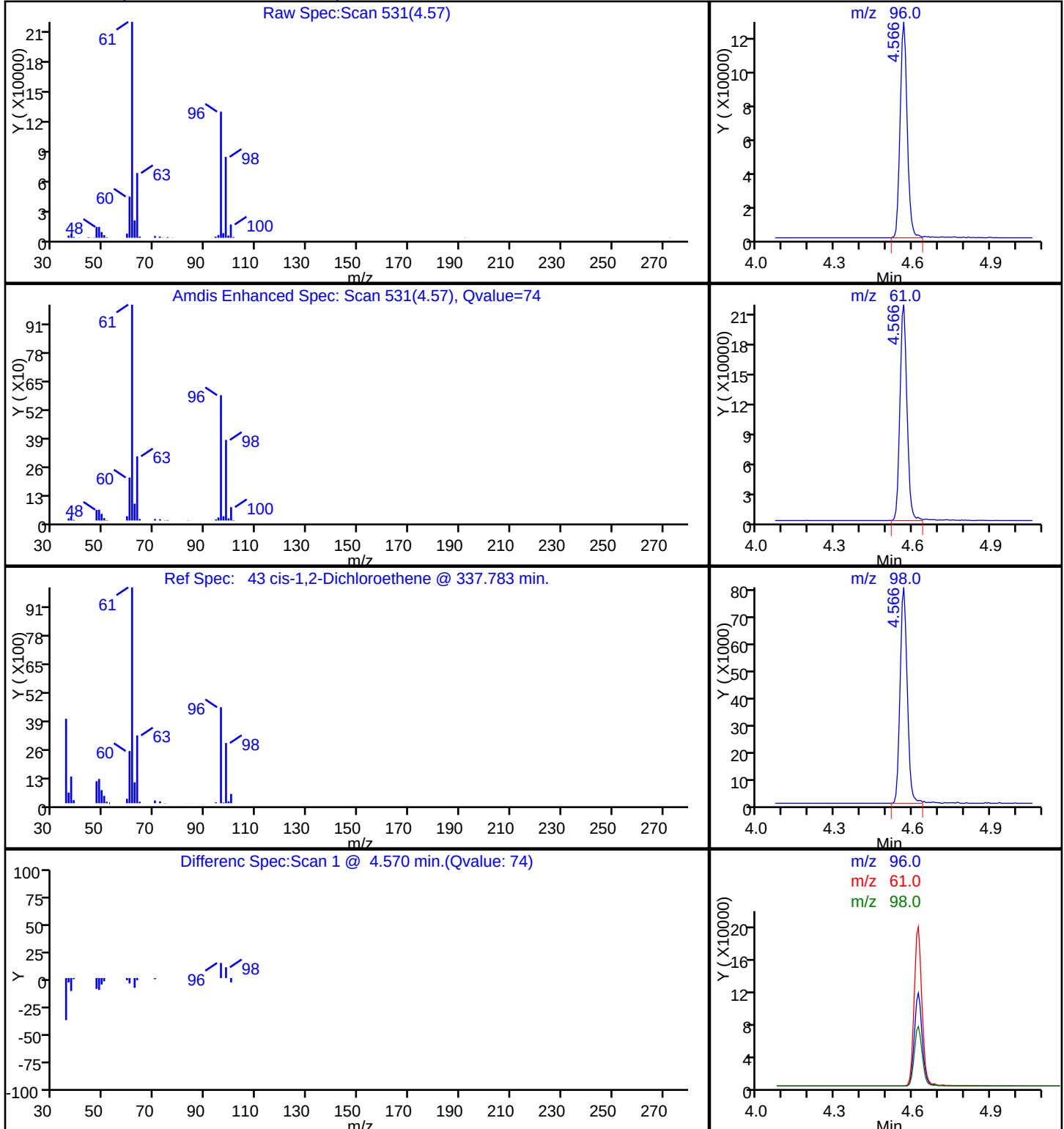
Dil. Factor: 500.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G29253.D

Injection Date: 14-Apr-2014 06:59:30

Instrument ID: HP5973G

Lims ID: 480-57666-B-8

Lab Sample ID: 480-57666-8

Client ID: Duplicate

Operator ID: gtg

ALS Bottle#: 56

Worklist Smp#: 23

Purge Vol: 5.000 mL

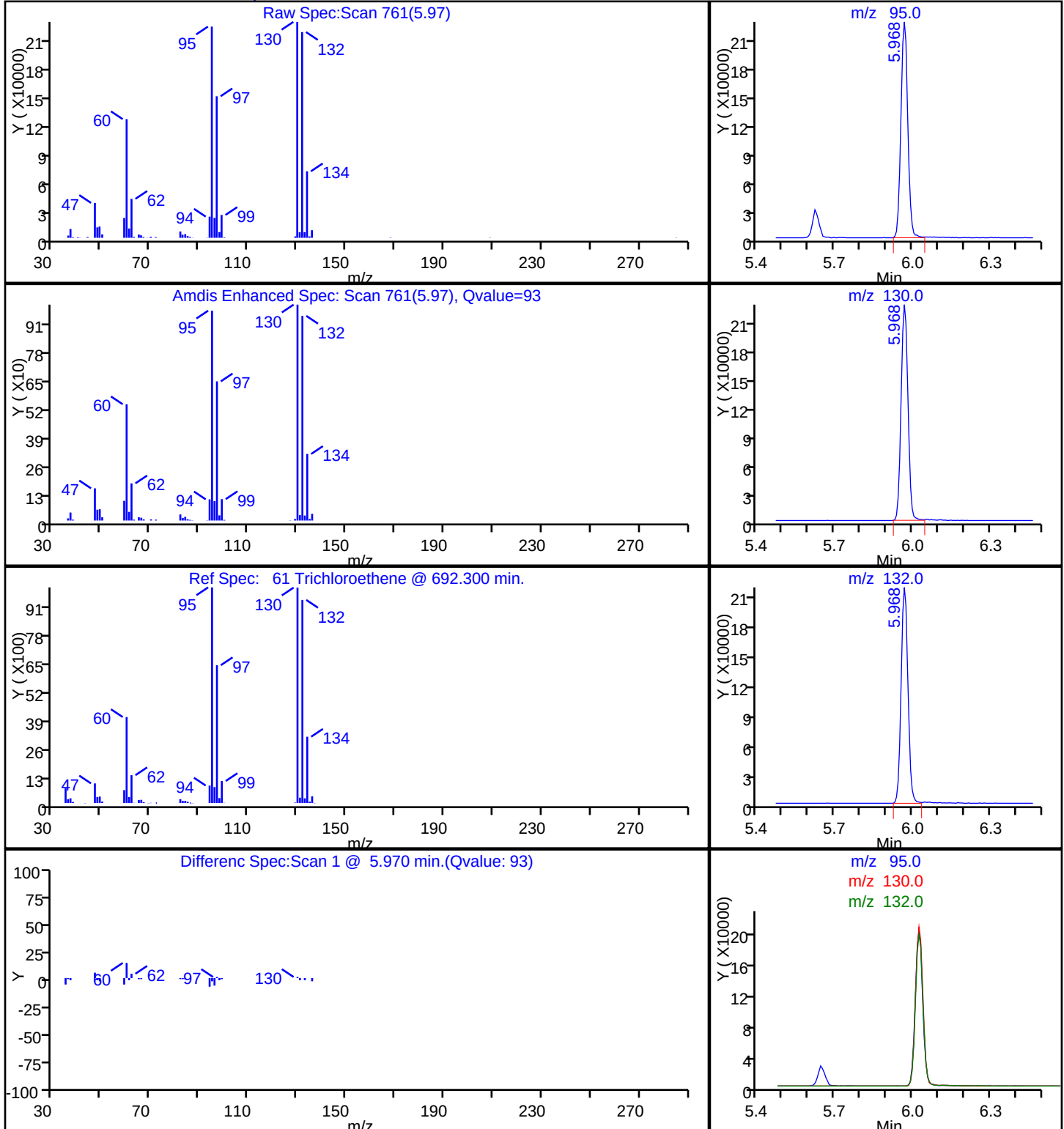
Dil. Factor: 500.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

61 Trichloroethene, CAS: 79-01-6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: MW-9 Lab Sample ID: 480-57666-9

Matrix: Ground Water Lab File ID: G29206.D

Analysis Method: 8260C Date Collected: 04/08/2014 10:50

Sample wt/vol: 5(mL) Date Analyzed: 04/12/2014 15:04

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.: 175447 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	73		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	2.3		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	22		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	21		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: MW-9 Lab Sample ID: 480-57666-9

Matrix: Ground Water Lab File ID: G29206.D

Analysis Method: 8260C Date Collected: 04/08/2014 10:50

Sample wt/vol: 5(mL) Date Analyzed: 04/12/2014 15:04

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.: 175447 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	75		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		66-137
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
2037-26-5	Toluene-d8 (Surr)	101		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29206.D
 Lims ID: 480-57666-A-9 Lab Sample ID: 480-57666-9
 Client ID: MW-9
 Sample Type: Client
 Inject. Date: 12-Apr-2014 15:04:30 ALS Bottle#: 9 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-57666-A-9
 Misc. Info.: 480-0031029-016 =480-0031029-016
 Operator ID: RAL Instrument ID: HP5973G
 Method: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 14-Apr-2014 00:12:27 Calib Date: 10-Apr-2014 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: goliszekg

Date: 14-Apr-2014 00:14:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.0	98	622122	25.0	
* 2 Chlorobenzene-d5	82	8.620	8.620	0.0	88	259960	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.991	10.985	0.006	97	220478	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.334	5.334	0.0	0	103768	25.7	
\$ 5 Toluene-d8 (Surr)	98	7.132	7.132	0.0	94	610592	25.2	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.863	9.863	0.0	81	145805	24.6	
10 Dichlorodifluoromethane	85		1.450					
12 Chloromethane	50		1.591					
13 Vinyl chloride	62	1.719	1.713	0.006	84	886591	75.3	
14 Bromomethane	94		2.042					
15 Chloroethane	64	2.151	2.139	0.012	93	136367	21.7	
17 Trichlorofluoromethane	101		2.383					
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.889					
20 1,1-Dichloroethene	96	2.889	2.889	0.0	48	1781	0.2083	
22 Acetone	43		2.956					
24 Carbon disulfide	76		3.103					
28 Methyl acetate	43		3.255					
29 Methylene Chloride	84		3.407					
31 Methyl tert-butyl ether	73		3.584					
32 trans-1,2-Dichloroethene	96	3.602	3.596	0.006	65	2235	0.3162	
36 1,1-Dichloroethane	63	4.011	4.005	0.006	85	1014341	72.9	
43 cis-1,2-Dichloroethene	96	4.566	4.560	0.006	85	151012	21.4	
44 2-Butanone (MEK)	43		4.584					
50 Chloroform	85		4.870					
51 1,1,1-Trichloroethane	97		4.999					
52 Cyclohexane	56		5.023					
53 Carbon tetrachloride	117		5.151					
56 Benzene	78		5.352					
57 1,2-Dichloroethane	62	5.413	5.401	0.012	84	25406	2.27	
61 Trichloroethene	95		5.968					
62 Methylcyclohexane	83		6.102					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
63 1,2-Dichloropropane	63		6.193					
67 Dichlorobromomethane	83		6.480					
72 cis-1,3-Dichloropropene	75		6.901					
73 4-Methyl-2-pentanone (MIBK)	43		7.035					
74 Toluene	92		7.199					
76 trans-1,3-Dichloropropene	75		7.461					
79 1,1,2-Trichloroethane	83		7.650					
80 Tetrachloroethene	166		7.742					
82 2-Hexanone	43		7.876					
83 Chlorodibromomethane	129		8.053					
84 Ethylene Dibromide	107		8.156					
86 Chlorobenzene	112		8.650					
89 Ethylbenzene	91		8.742					
90 m-Xylene & p-Xylene	106		8.864					
91 o-Xylene	106		9.290					
92 Styrene	104		9.315					
93 Bromoform	173		9.552					
95 Isopropylbenzene	105		9.674					
98 1,1,2,2-Tetrachloroethane	83		10.040					
110 1,3-Dichlorobenzene	146		10.924					
113 1,4-Dichlorobenzene	146		11.010					
116 1,2-Dichlorobenzene	146		11.357					
117 1,2-Dibromo-3-Chloropropane	75		12.076					
119 1,2,4-Trichlorobenzene	180		12.765					
S 124 Xylenes, Total	1		30.000					

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29206.D

Injection Date: 12-Apr-2014 15:04:30

Instrument ID: HP5973G

Operator ID: RAL

Lims ID: 480-57666-A-9

Lab Sample ID: 480-57666-9

Worklist Smp#: 16

Client ID: MW-9

Purge Vol: 5.000 mL

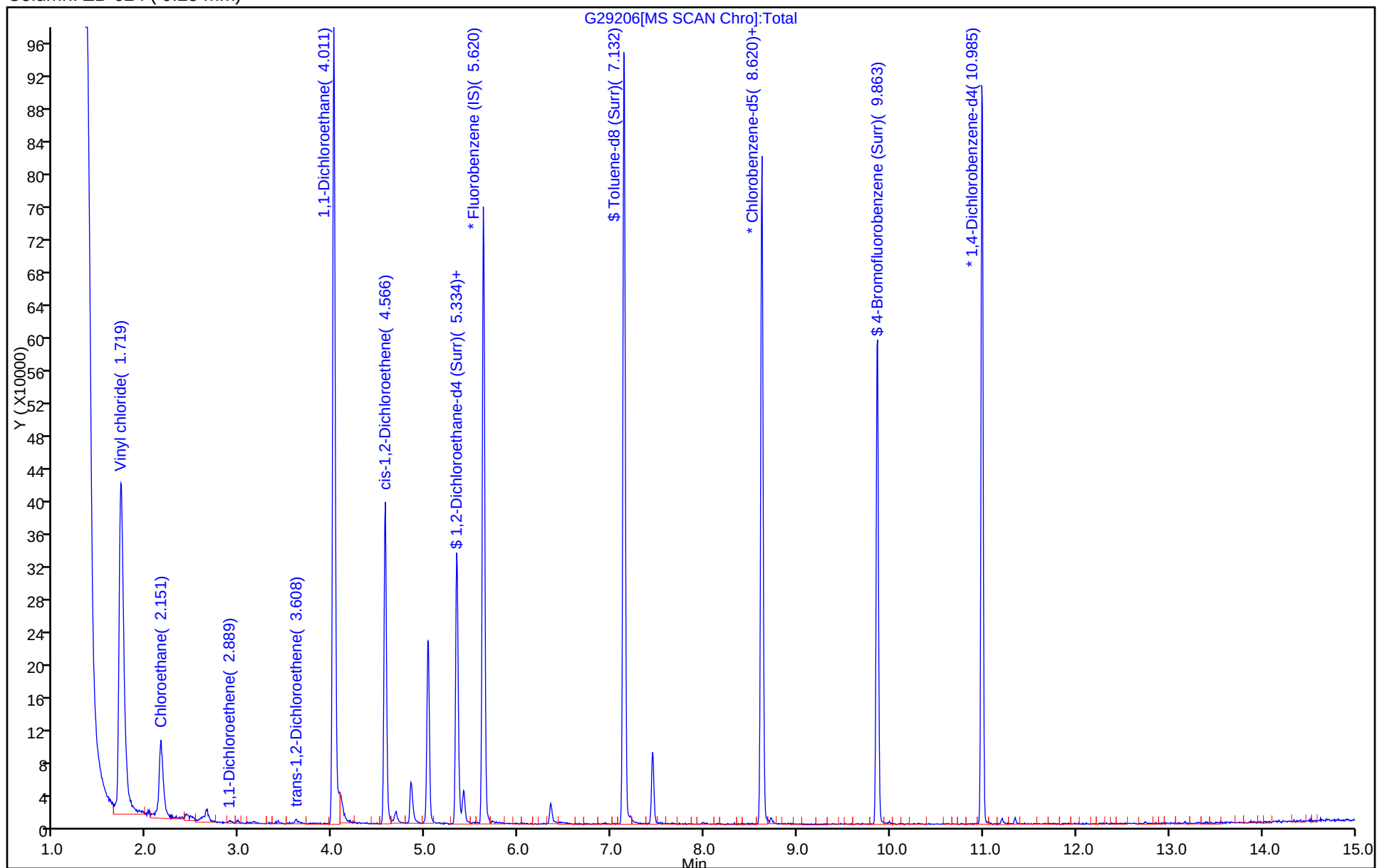
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29206.D

Injection Date: 12-Apr-2014 15:04:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-9

Lab Sample ID: 480-57666-9

Client ID: MW-9

Operator ID: RAL

ALS Bottle#: 9

Worklist Smp#: 16

Purge Vol: 5.000 mL

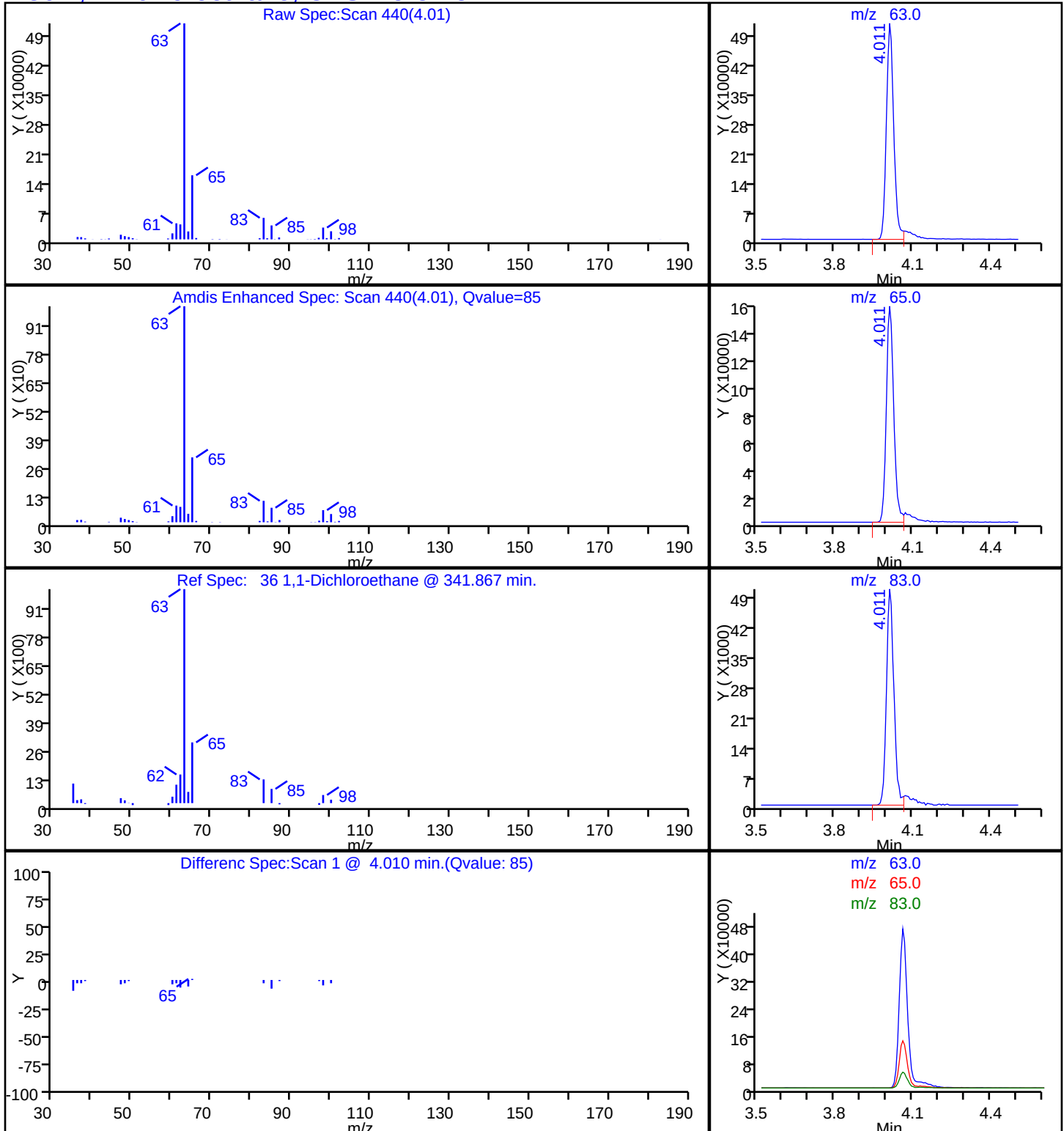
Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29206.D

Injection Date: 12-Apr-2014 15:04:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-9

Lab Sample ID: 480-57666-9

Client ID: MW-9

Operator ID: RAL

ALS Bottle#: 9

Worklist Smp#: 16

Purge Vol: 5.000 mL

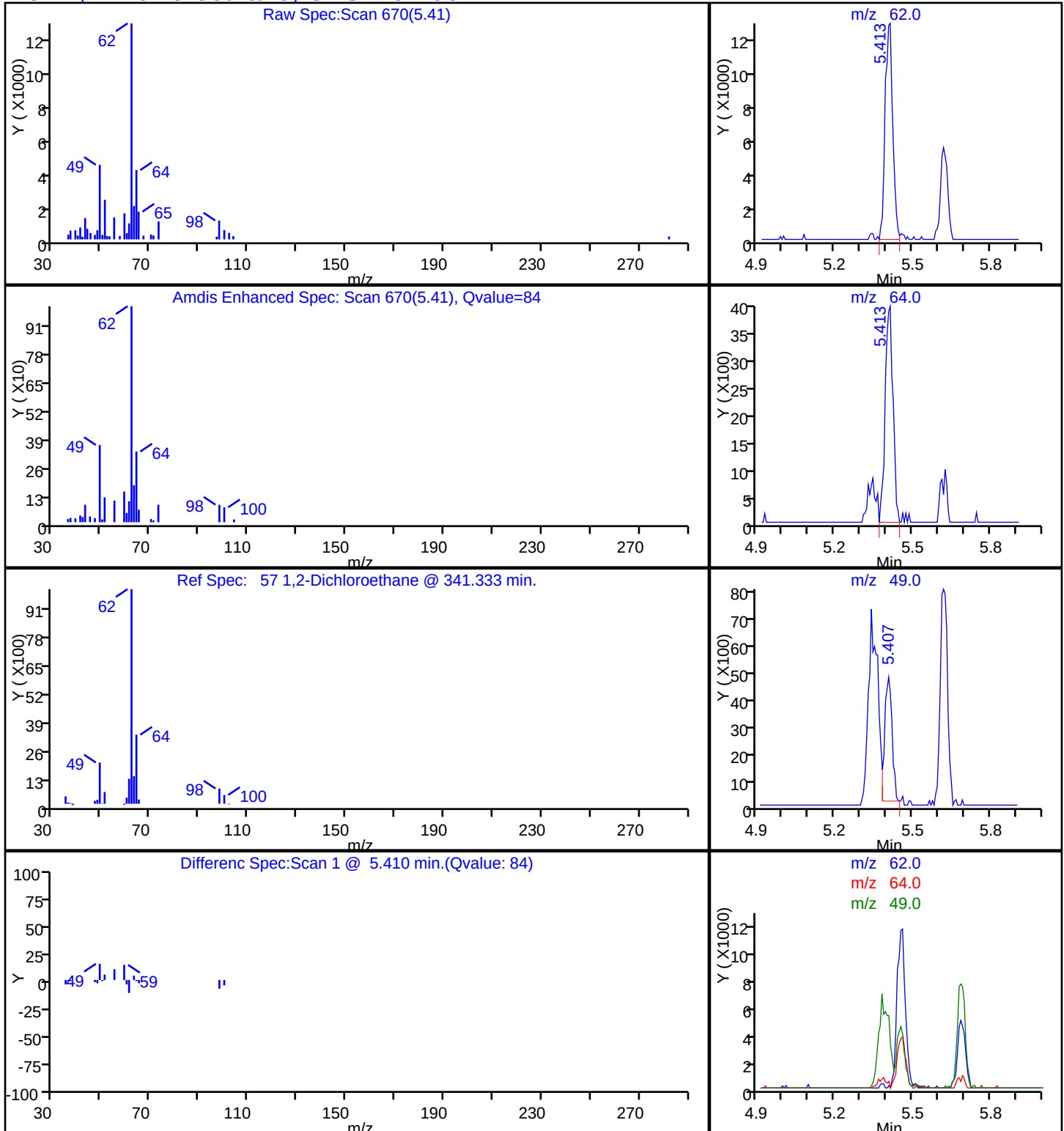
Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 1,2-Dichloroethane, CAS: 107-06-2

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29206.D

Injection Date: 12-Apr-2014 15:04:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-9

Lab Sample ID: 480-57666-9

Client ID: MW-9

Operator ID: RAL

ALS Bottle#: 9

Worklist Smp#: 16

Purge Vol: 5.000 mL

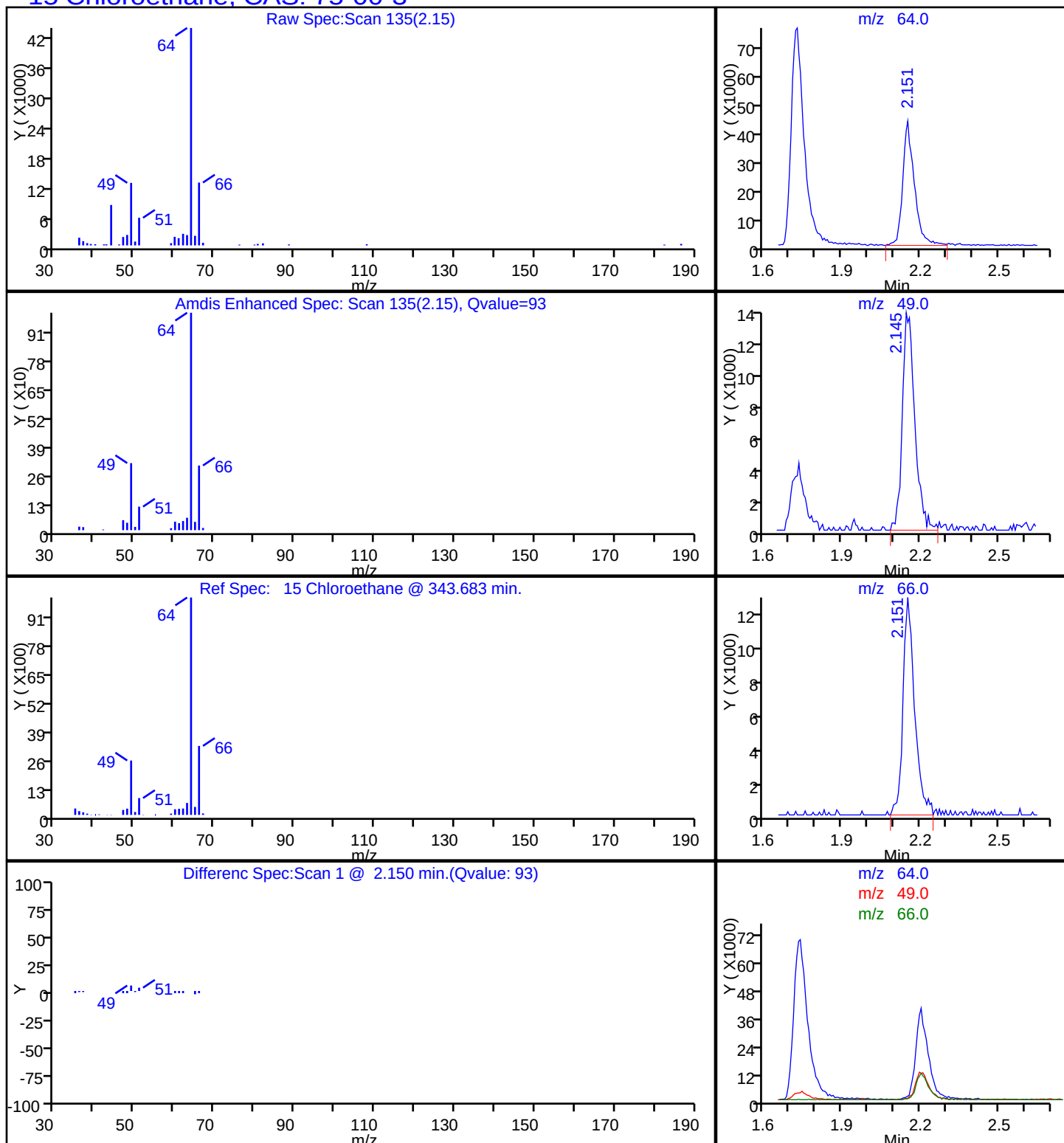
Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29206.D

Injection Date: 12-Apr-2014 15:04:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-9

Lab Sample ID: 480-57666-9

Client ID: MW-9

Operator ID: RAL

ALS Bottle#: 9

Worklist Smp#: 16

Purge Vol: 5.000 mL

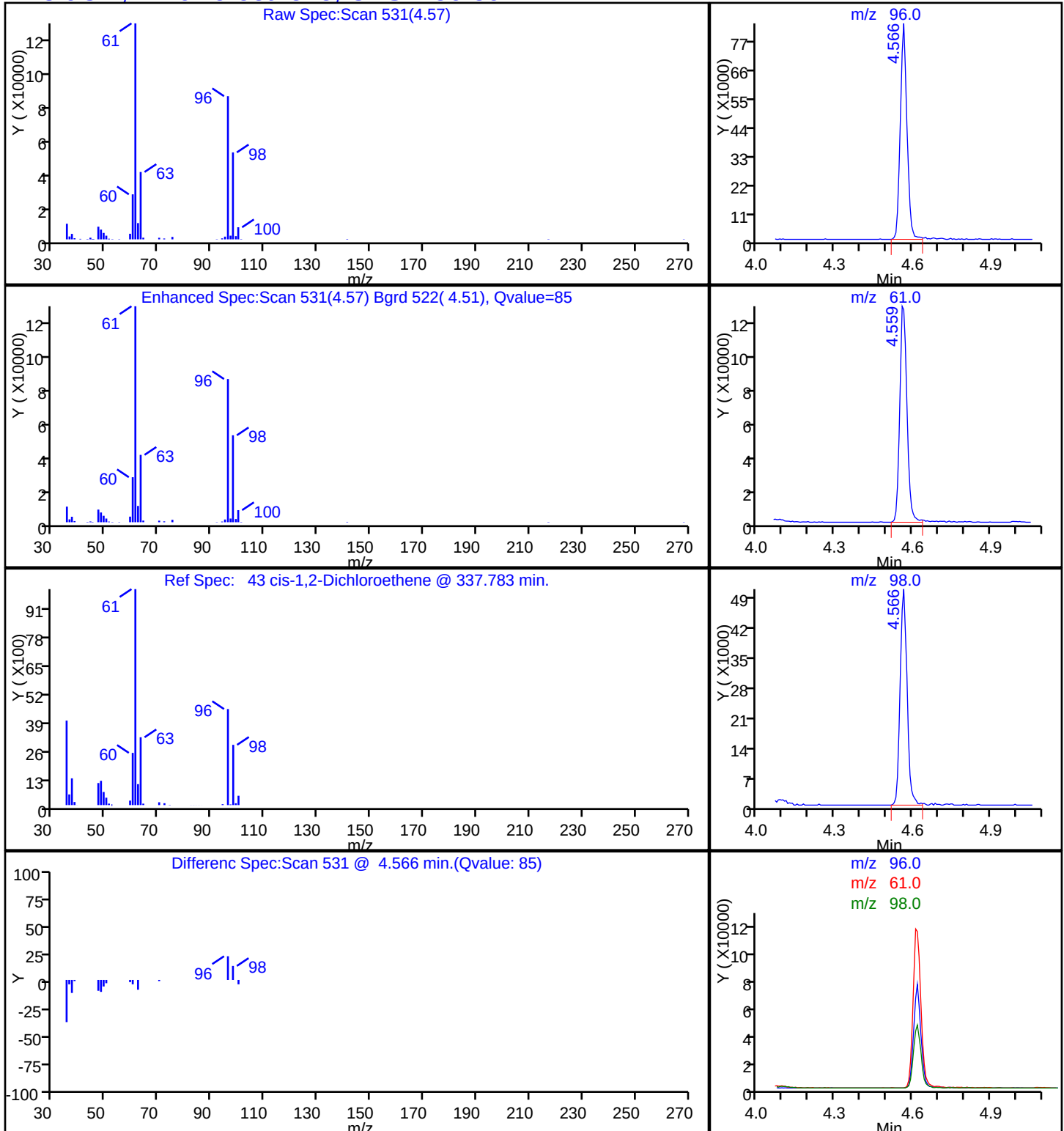
Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2

TestAmerica Buffalo

Data File: \\Bufchrom\\ChromData\\HP5973G\\20140412-31029.b\\G29206.D

Injection Date: 12-Apr-2014 15:04:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-9

Lab Sample ID: 480-57666-9

Client ID: MW-9

Operator ID: RAL

ALS Bottle#: 9

Worklist Smp#: 16

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

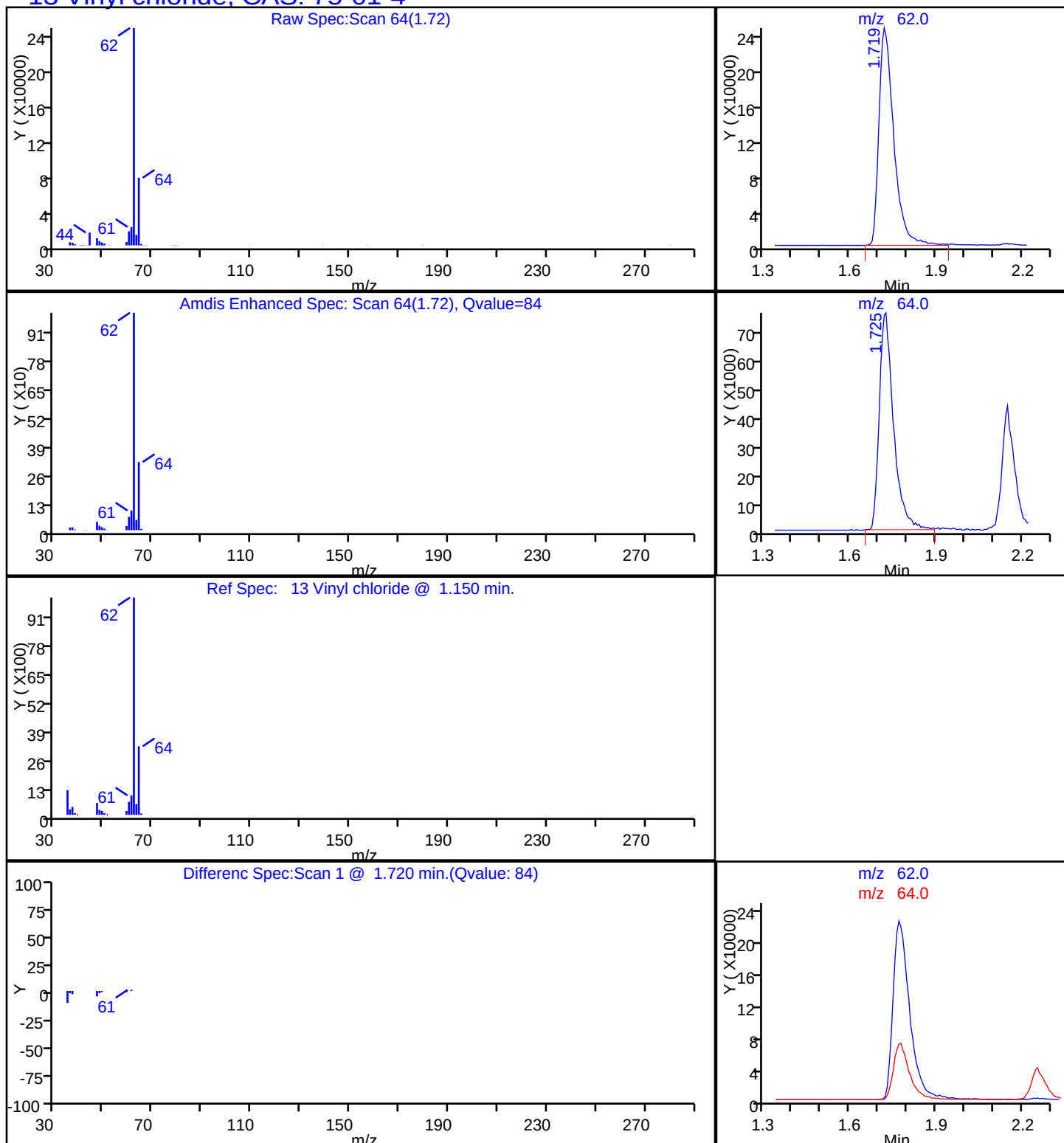
Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector MS SCAN

13 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: MW-13S Lab Sample ID: 480-57666-10

Matrix: Ground Water Lab File ID: G29254.D

Analysis Method: 8260C Date Collected: 04/08/2014 13:55

Sample wt/vol: 5(mL) Date Analyzed: 04/14/2014 07:22

Soil Aliquot Vol: _____ Dilution Factor: 500

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

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

Analysis Batch No.: 175488 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		500	410
79-34-5	1,1,2,2-Tetrachloroethane	ND		500	110
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		500	160
79-00-5	1,1,2-Trichloroethane	ND		500	120
75-34-3	1,1-Dichloroethane	ND		500	190
75-35-4	1,1-Dichloroethene	ND		500	150
120-82-1	1,2,4-Trichlorobenzene	ND		500	210
96-12-8	1,2-Dibromo-3-Chloropropane	ND		500	200
106-93-4	1,2-Dibromoethane	ND		500	370
95-50-1	1,2-Dichlorobenzene	ND		500	400
107-06-2	1,2-Dichloroethane	ND		500	110
78-87-5	1,2-Dichloropropane	ND		500	360
541-73-1	1,3-Dichlorobenzene	ND		500	390
106-46-7	1,4-Dichlorobenzene	ND		500	420
78-93-3	2-Butanone (MEK)	ND		5000	660
591-78-6	2-Hexanone	ND		2500	620
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		2500	1100
67-64-1	Acetone	ND		5000	1500
71-43-2	Benzene	ND		500	210
75-27-4	Bromodichloromethane	ND		500	200
75-25-2	Bromoform	ND		500	130
74-83-9	Bromomethane	ND		500	350
75-15-0	Carbon disulfide	ND		500	95
56-23-5	Carbon tetrachloride	ND		500	140
108-90-7	Chlorobenzene	ND		500	380
75-00-3	Chloroethane	ND		500	160
67-66-3	Chloroform	ND		500	170
74-87-3	Chloromethane	ND		500	180
156-59-2	cis-1,2-Dichloroethene	18000		500	410
10061-01-5	cis-1,3-Dichloropropene	ND		500	180
110-82-7	Cyclohexane	ND		500	90
124-48-1	Dibromochloromethane	ND		500	160
75-71-8	Dichlorodifluoromethane	ND		500	340
100-41-4	Ethylbenzene	ND		500	370
98-82-8	Isopropylbenzene	ND		500	400

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: MW-13S Lab Sample ID: 480-57666-10

Matrix: Ground Water Lab File ID: G29254.D

Analysis Method: 8260C Date Collected: 04/08/2014 13:55

Sample wt/vol: 5(mL) Date Analyzed: 04/14/2014 07:22

Soil Aliquot Vol: _____ Dilution Factor: 500

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

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

Analysis Batch No.: 175488 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1300	250
1634-04-4	Methyl tert-butyl ether	ND		500	80
108-87-2	Methylcyclohexane	ND		500	80
75-09-2	Methylene Chloride	ND		500	220
100-42-5	Styrene	ND		500	370
127-18-4	Tetrachloroethene	ND		500	180
108-88-3	Toluene	ND		500	260
156-60-5	trans-1,2-Dichloroethene	ND		500	450
10061-02-6	trans-1,3-Dichloropropene	ND		500	190
79-01-6	Trichloroethene	32000		500	230
75-69-4	Trichlorofluoromethane	ND		500	440
75-01-4	Vinyl chloride	ND		500	450
1330-20-7	Xylenes, Total	ND		1000	330

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		66-137
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
2037-26-5	Toluene-d8 (Surr)	100		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G29254.D
 Lims ID: 480-57666-B-10 Lab Sample ID: 480-57666-10
 Client ID: MW-13S
 Sample Type: Client
 Inject. Date: 14-Apr-2014 07:22:30 ALS Bottle#: 57 Worklist Smp#: 24
 Purge Vol: 5.000 mL Dil. Factor: 500.0000
 Sample Info: 480-57666-B-10
 Misc. Info.: 480-0031036-024 =480-0031036-024
 Operator ID: gtg Instrument ID: HP5973G
 Method: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 14-Apr-2014 09:59:17 Calib Date: 10-Apr-2014 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: larsonr

Date: 14-Apr-2014 10:27:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.0	98	593369	25.0	
* 2 Chlorobenzene-d5	82	8.620	8.620	0.0	89	250585	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.991	10.991	0.0	97	212205	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.334	5.334	0.0	0	103883	26.9	
\$ 5 Toluene-d8 (Surr)	98	7.138	7.132	0.006	94	582878	25.0	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.863	9.863	0.0	81	134442	23.5	
10 Dichlorodifluoromethane	85		1.444					
12 Chloromethane	50		1.591					
13 Vinyl chloride	62	1.725	1.713	0.012	66	5776	0.5143	
14 Bromomethane	94		2.011					
15 Chloroethane	64		2.152					
17 Trichlorofluoromethane	101		2.383					
20 1,1-Dichloroethene	96		2.889					
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.895					
22 Acetone	43		2.956					
24 Carbon disulfide	76		3.097					
28 Methyl acetate	43		3.255					
29 Methylene Chloride	84		3.407					
31 Methyl tert-butyl ether	73		3.584					
32 trans-1,2-Dichloroethene	96		3.596					
36 1,1-Dichloroethane	63		4.005					
43 cis-1,2-Dichloroethene	96	4.566	4.560	0.006	74	242622	36.0	
44 2-Butanone (MEK)	43		4.590					
50 Chloroform	85		4.871					
51 1,1,1-Trichloroethane	97		4.999					
52 Cyclohexane	56		5.029					
53 Carbon tetrachloride	117		5.145					
56 Benzene	78		5.352					
57 1,2-Dichloroethane	62		5.401					
61 Trichloroethene	95	5.968	5.962	0.006	93	416816	64.9	
62 Methylcyclohexane	83		6.102					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
63 1,2-Dichloropropane	63		6.193					
67 Dichlorobromomethane	83		6.480					
72 cis-1,3-Dichloropropene	75		6.901					
73 4-Methyl-2-pentanone (MIBK)	43		7.035					
74 Toluene	92		7.199					
76 trans-1,3-Dichloropropene	75		7.462					
79 1,1,2-Trichloroethane	83		7.651					
80 Tetrachloroethene	166		7.742					
82 2-Hexanone	43		7.876					
83 Chlorodibromomethane	129		8.053					
84 Ethylene Dibromide	107		8.163					
86 Chlorobenzene	112		8.650					
89 Ethylbenzene	91		8.742					
90 m-Xylene & p-Xylene	106		8.864					
91 o-Xylene	106		9.290					
92 Styrene	104		9.321					
93 Bromoform	173		9.553					
95 Isopropylbenzene	105		9.674					
98 1,1,2,2-Tetrachloroethane	83		10.040					
110 1,3-Dichlorobenzene	146		10.924					
113 1,4-Dichlorobenzene	146		11.010					
116 1,2-Dichlorobenzene	146		11.363					
117 1,2-Dibromo-3-Chloropropane	75		12.076					
119 1,2,4-Trichlorobenzene	180		12.765					
S 124 Xylenes, Total	1		30.000					

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G29254.D

Injection Date: 14-Apr-2014 07:22:30

Instrument ID: HP5973G

Operator ID: gtg

Lims ID: 480-57666-B-10

Lab Sample ID: 480-57666-10

Worklist Smp#: 24

Client ID: MW-13S

Purge Vol: 5.000 mL

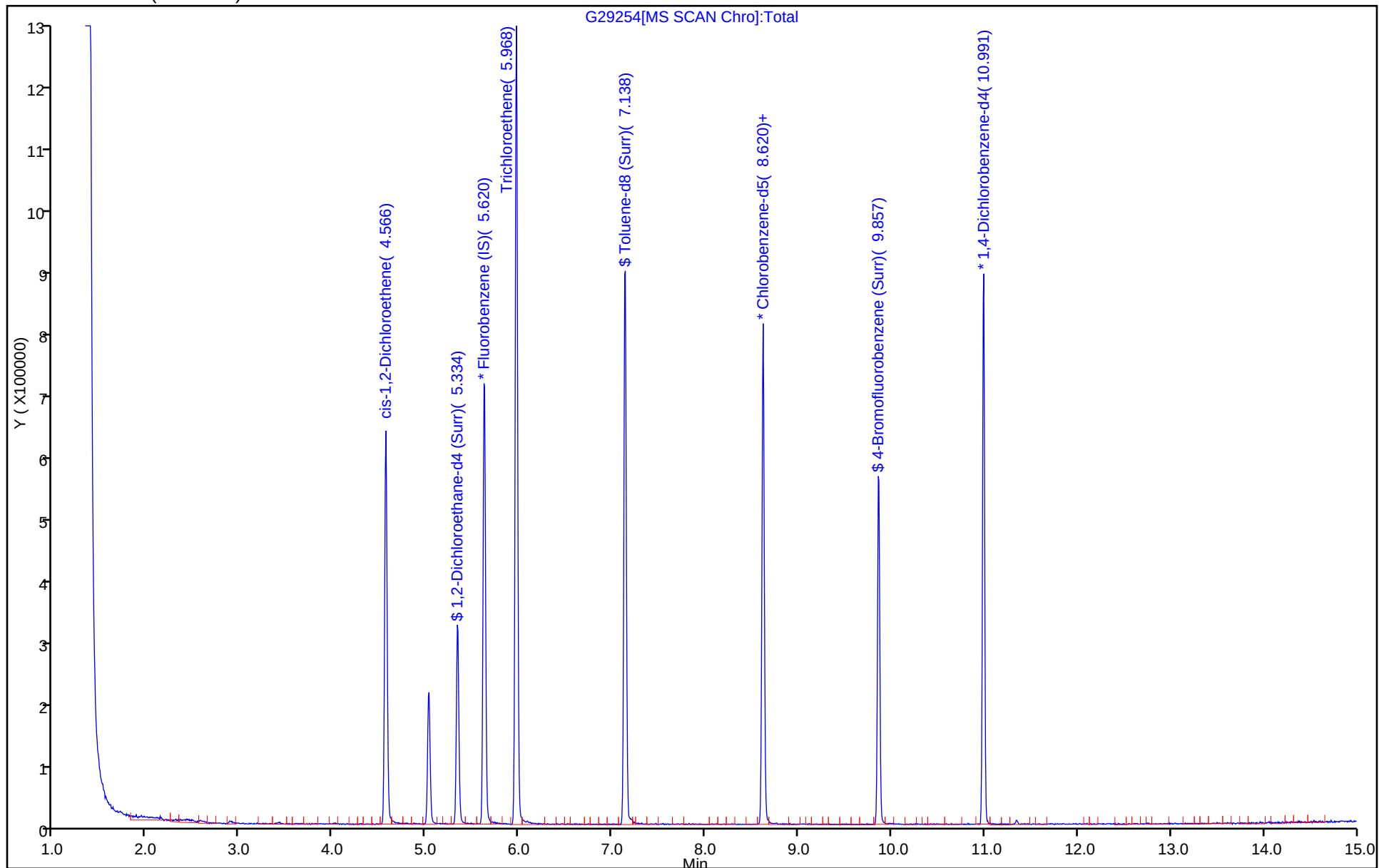
Dil. Factor: 500.0000

ALS Bottle#: 57

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G29254.D

Injection Date: 14-Apr-2014 07:22:30

Instrument ID: HP5973G

Lims ID: 480-57666-B-10

Lab Sample ID: 480-57666-10

Client ID: MW-13S

Operator ID: gtg

ALS Bottle#: 57

Worklist Smp#: 24

Purge Vol: 5.000 mL

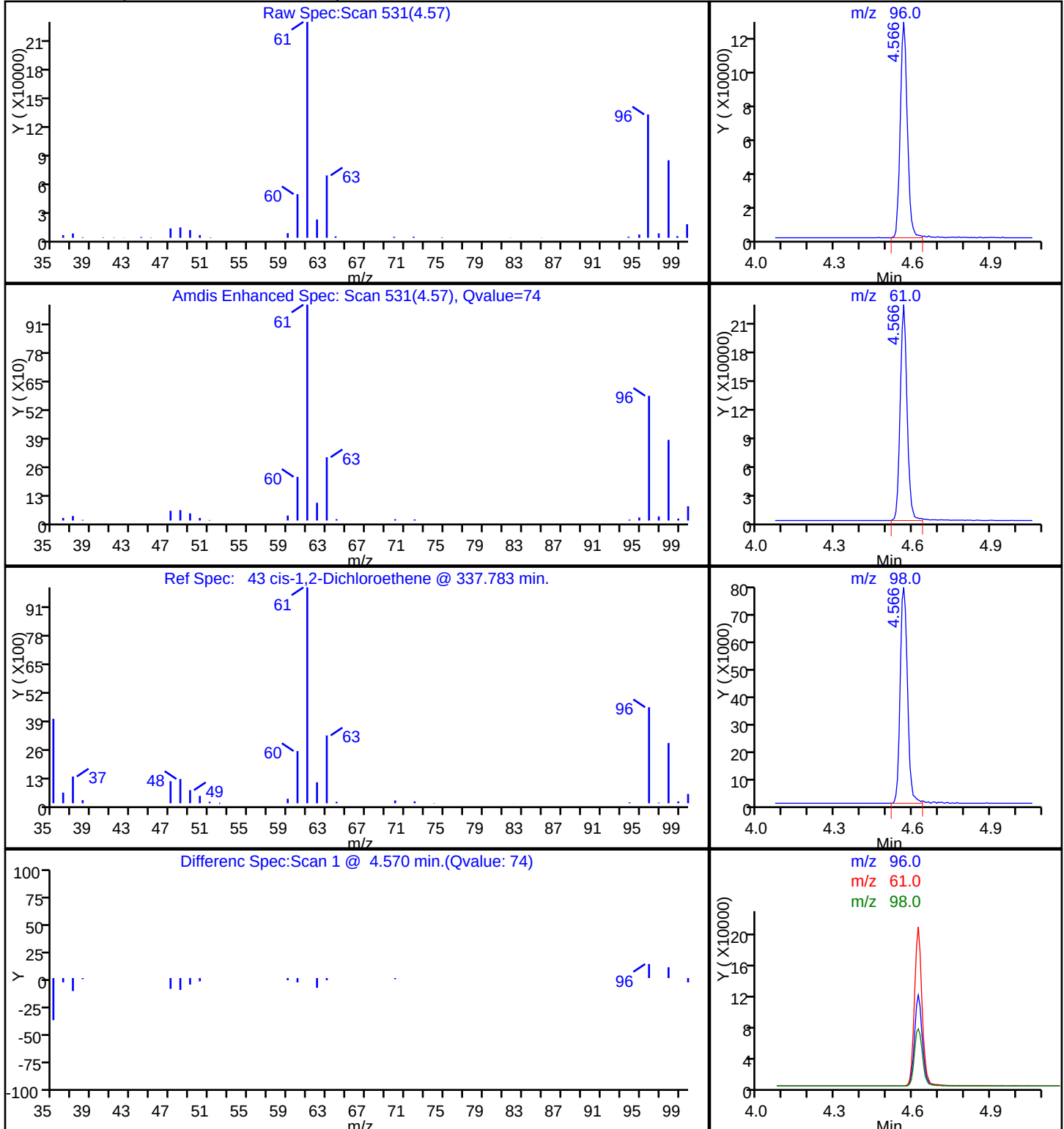
Dil. Factor: 500.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G29254.D

Injection Date: 14-Apr-2014 07:22:30

Instrument ID: HP5973G

Lims ID: 480-57666-B-10

Lab Sample ID: 480-57666-10

Client ID: MW-13S

Operator ID: gtg

ALS Bottle#: 57

Worklist Smp#: 24

Purge Vol: 5.000 mL

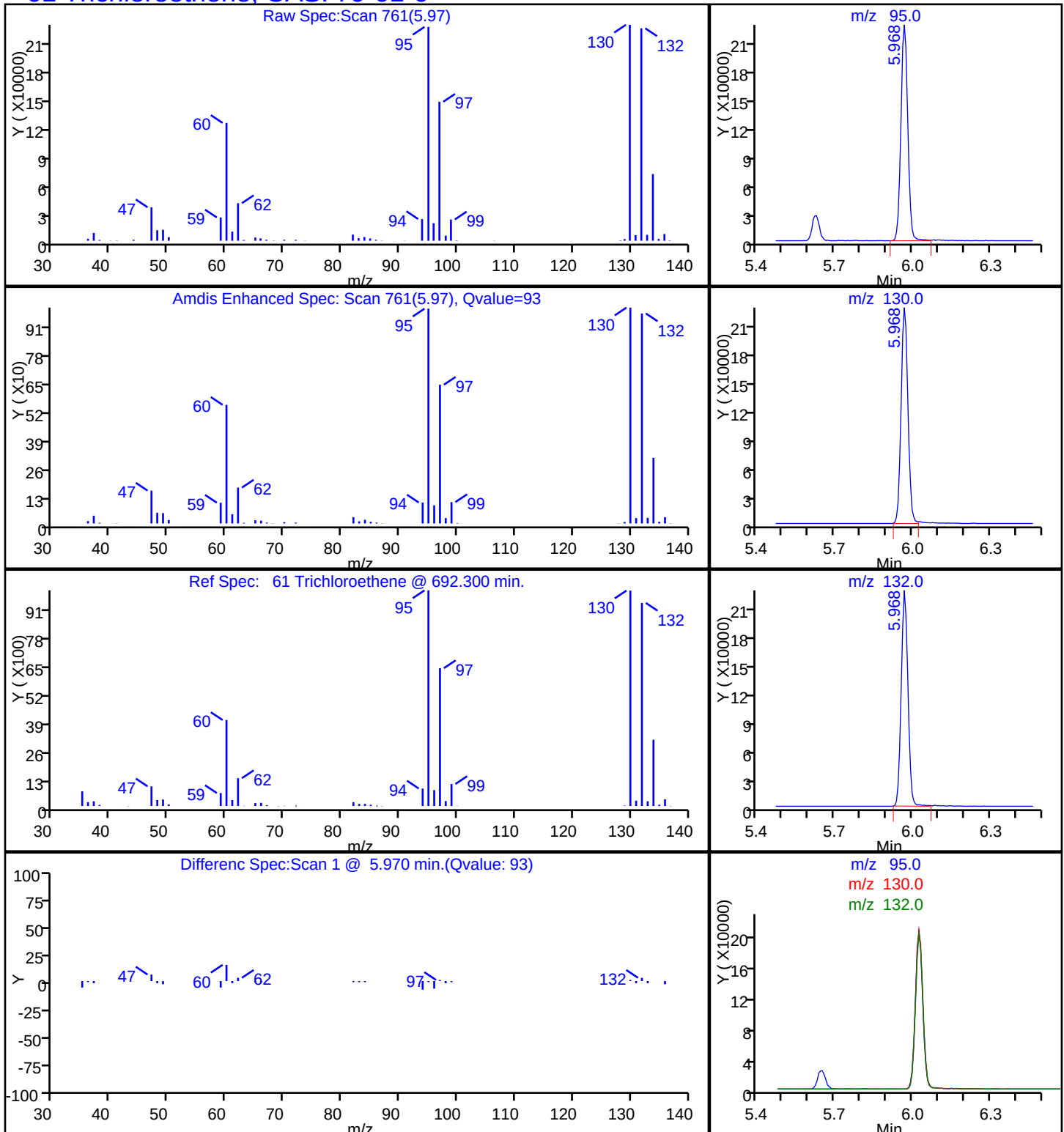
Dil. Factor: 500.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

61 Trichloroethene, CAS: 79-01-6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: MW-13D Lab Sample ID: 480-57666-11

Matrix: Ground Water Lab File ID: G29208.D

Analysis Method: 8260C Date Collected: 04/08/2014 14:30

Sample wt/vol: 5(mL) Date Analyzed: 04/12/2014 15:49

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.: 175447 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	28		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1
 SDG No.: _____
 Client Sample ID: MW-13D Lab Sample ID: 480-57666-11
 Matrix: Ground Water Lab File ID: G29208.D
 Analysis Method: 8260C Date Collected: 04/08/2014 14:30
 Sample wt/vol: 5(mL) Date Analyzed: 04/12/2014 15:49
 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.: 175447 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	30		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	1.9		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		66-137
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
2037-26-5	Toluene-d8 (Surr)	100		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29208.D
 Lims ID: 480-57666-A-11 Lab Sample ID: 480-57666-11
 Client ID: MW-13D
 Sample Type: Client
 Inject. Date: 12-Apr-2014 15:49:30 ALS Bottle#: 11 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-57666-A-11
 Misc. Info.: 480-0031029-018 =480-0031029-018
 Operator ID: RAL Instrument ID: HP5973G
 Method: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 14-Apr-2014 00:12:27 Calib Date: 10-Apr-2014 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: goliszekg

Date: 14-Apr-2014 00:14:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.0	98	632249	25.0	
* 2 Chlorobenzene-d5	82	8.620	8.620	0.0	90	261322	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.991	10.985	0.006	97	222970	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.334	5.334	0.0	0	105915	25.8	
\$ 5 Toluene-d8 (Surr)	98	7.132	7.132	0.0	94	607701	25.0	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.857	9.863	-0.006	80	145056	24.3	
10 Dichlorodifluoromethane	85		1.450					
12 Chloromethane	50		1.591					
13 Vinyl chloride	62	1.713	1.713	0.0	71	23145	1.93	
14 Bromomethane	94		2.042					
15 Chloroethane	64		2.139					
17 Trichlorofluoromethane	101		2.383					
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.889					
20 1,1-Dichloroethene	96	2.901	2.889	0.012	44	1761	0.2027	
22 Acetone	43		2.956					
24 Carbon disulfide	76		3.103					
28 Methyl acetate	43		3.255					
29 Methylene Chloride	84		3.407					
31 Methyl tert-butyl ether	73		3.584					
32 trans-1,2-Dichloroethene	96	3.603	3.596	0.007	54	1168	0.1626	
36 1,1-Dichloroethane	63		4.005					
43 cis-1,2-Dichloroethene	96	4.566	4.560	0.006	74	204447	28.5	
44 2-Butanone (MEK)	43		4.584					
50 Chloroform	85		4.870					
51 1,1,1-Trichloroethane	97		4.999					
52 Cyclohexane	56		5.023					
53 Carbon tetrachloride	117		5.151					
56 Benzene	78		5.352					
57 1,2-Dichloroethane	62		5.401					
61 Trichloroethene	95	5.968	5.968	0.0	92	203421	29.7	
62 Methylcyclohexane	83		6.102					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
63 1,2-Dichloropropane	63		6.193					
67 Dichlorobromomethane	83		6.480					
72 cis-1,3-Dichloropropene	75		6.901					
73 4-Methyl-2-pentanone (MIBK)	43		7.035					
74 Toluene	92		7.199					
76 trans-1,3-Dichloropropene	75		7.461					
79 1,1,2-Trichloroethane	83		7.650					
80 Tetrachloroethene	166		7.742					
82 2-Hexanone	43		7.876					
83 Chlorodibromomethane	129		8.053					
84 Ethylene Dibromide	107		8.156					
86 Chlorobenzene	112		8.650					
89 Ethylbenzene	91		8.742					
90 m-Xylene & p-Xylene	106		8.864					
91 o-Xylene	106		9.290					
92 Styrene	104		9.315					
93 Bromoform	173		9.552					
95 Isopropylbenzene	105		9.674					
98 1,1,2,2-Tetrachloroethane	83		10.040					
110 1,3-Dichlorobenzene	146		10.924					
113 1,4-Dichlorobenzene	146		11.010					
116 1,2-Dichlorobenzene	146		11.357					
117 1,2-Dibromo-3-Chloropropane	75		12.076					
119 1,2,4-Trichlorobenzene	180		12.765					
S 124 Xylenes, Total	1		30.000					

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29208.D

Injection Date: 12-Apr-2014 15:49:30

Instrument ID: HP5973G

Operator ID: RAL

Lims ID: 480-57666-A-11

Lab Sample ID: 480-57666-11

Worklist Smp#: 18

Client ID: MW-13D

Purge Vol: 5.000 mL

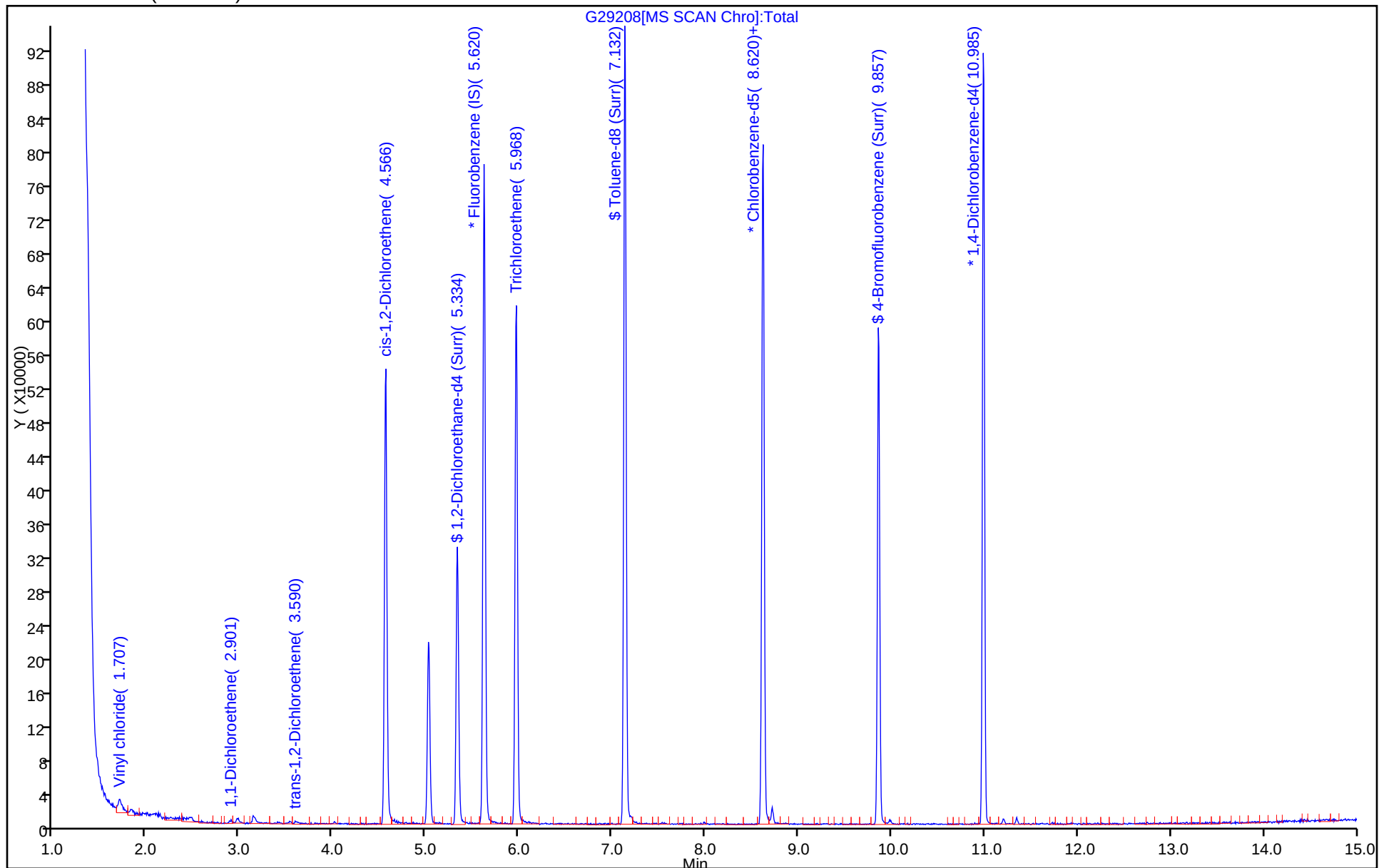
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29208.D

Injection Date: 12-Apr-2014 15:49:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-11

Lab Sample ID: 480-57666-11

Client ID: MW-13D

Operator ID: RAL

ALS Bottle#: 11

Worklist Smp#: 18

Purge Vol: 5.000 mL

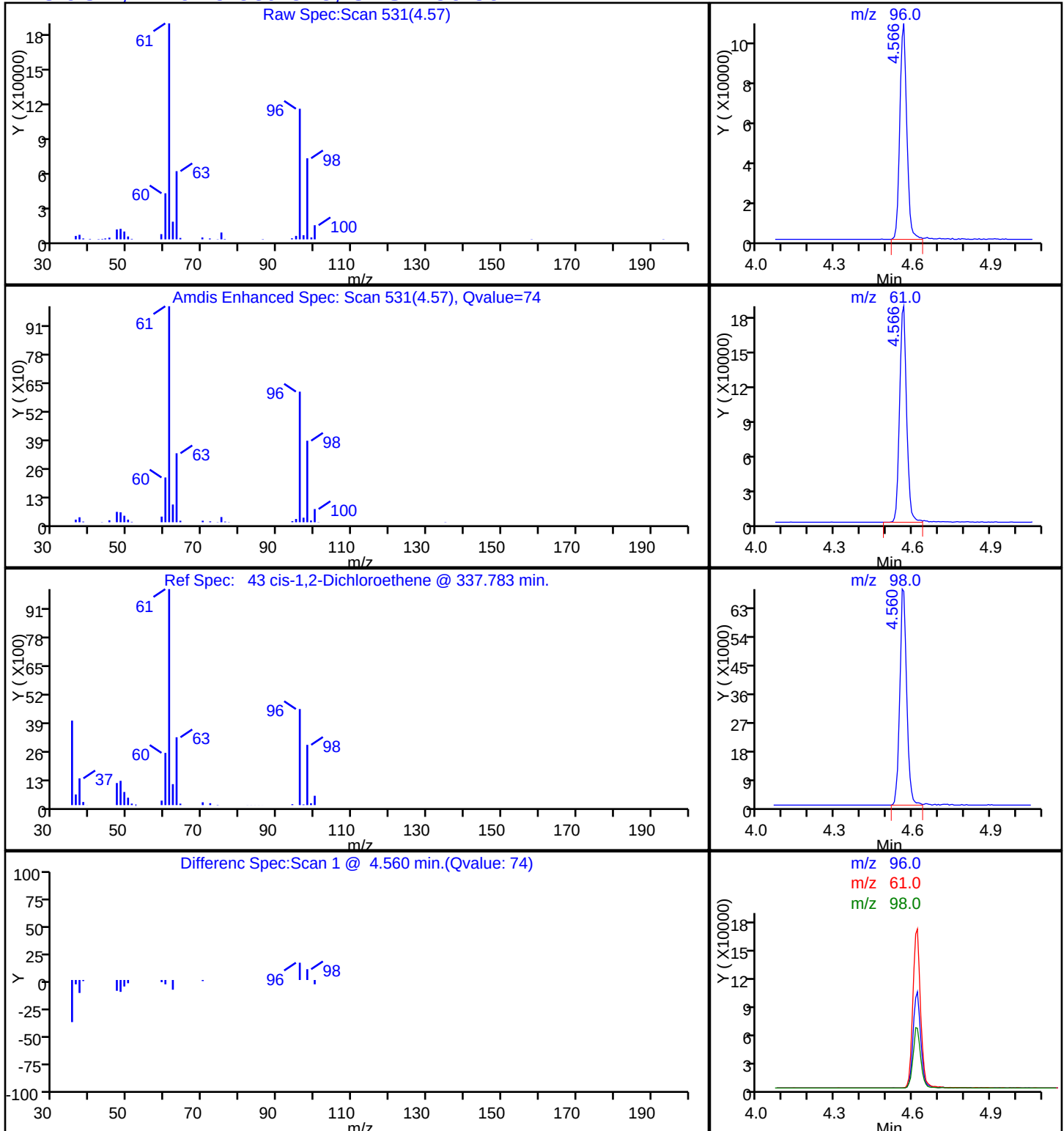
Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29208.D

Injection Date: 12-Apr-2014 15:49:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-11

Lab Sample ID: 480-57666-11

Client ID: MW-13D

Operator ID: RAL

ALS Bottle#: 11

Worklist Smp#: 18

Purge Vol: 5.000 mL

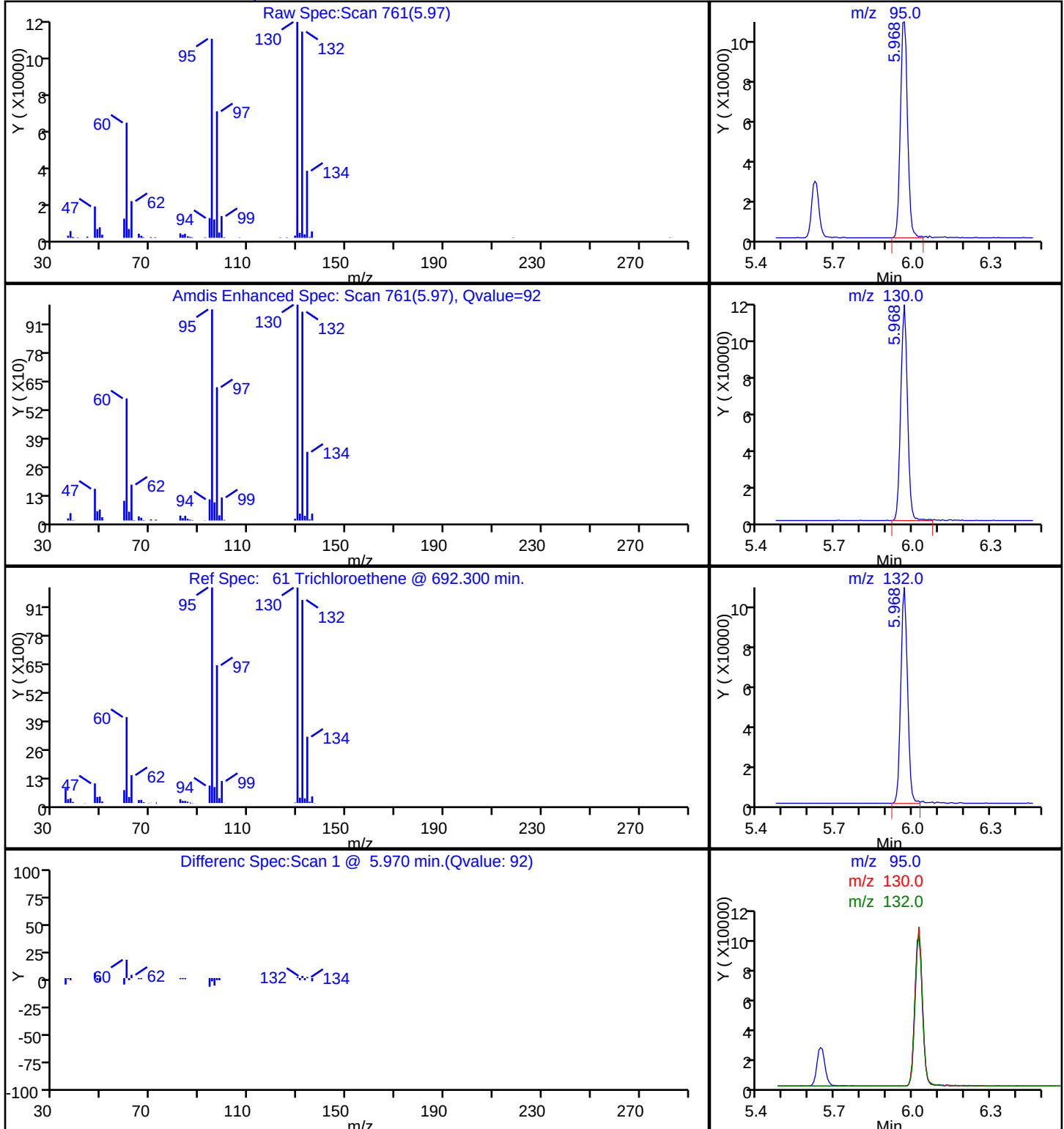
Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

61 Trichloroethene, CAS: 79-01-6

TestAmerica Buffalo

Data File: \\Bufchrom\\ChromData\\HP5973G\\20140412-31029.b\\G29208.D

Injection Date: 12-Apr-2014 15:49:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-11

Lab Sample ID: 480-57666-11

Client ID: MW-13D

Operator ID: RAL

ALS Bottle#: 11

Worklist Smp#: 18

Purge Vol: 5.000 mL

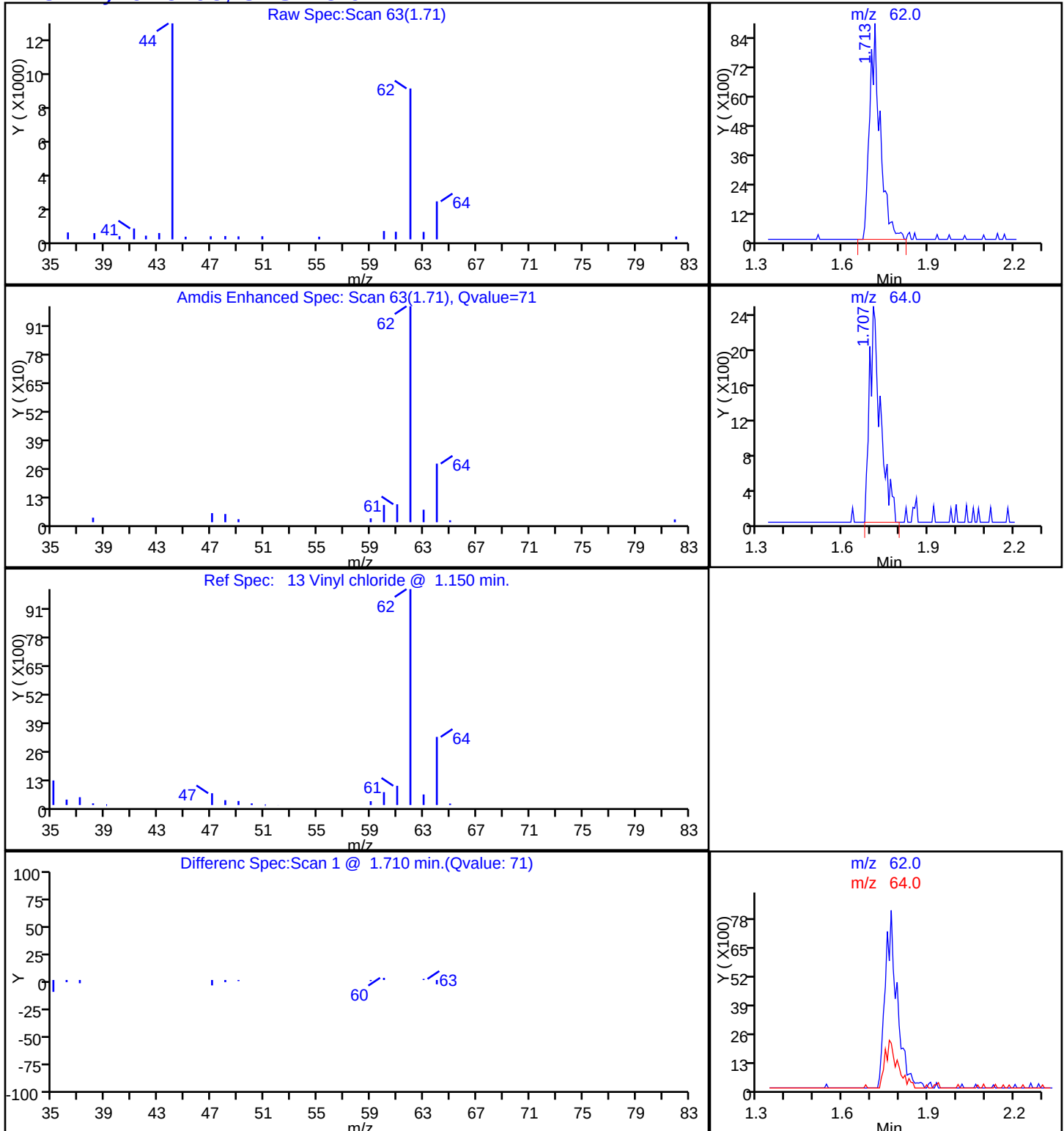
Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: MW-3 Lab Sample ID: 480-57666-12

Matrix: Ground Water Lab File ID: G29209.D

Analysis Method: 8260C Date Collected: 04/08/2014 09:30

Sample wt/vol: 5(mL) Date Analyzed: 04/12/2014 16:12

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.: 175447 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	8.9		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	0.82	J	1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	1.5		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: MW-3 Lab Sample ID: 480-57666-12

Matrix: Ground Water Lab File ID: G29209.D

Analysis Method: 8260C Date Collected: 04/08/2014 09:30

Sample wt/vol: 5(mL) Date Analyzed: 04/12/2014 16:12

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.: 175447 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	2.5		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		66-137
460-00-4	4-Bromofluorobenzene (Surr)	96		73-120
2037-26-5	Toluene-d8 (Surr)	100		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29209.D
 Lims ID: 480-57666-A-12 Lab Sample ID: 480-57666-12
 Client ID: MW-3
 Sample Type: Client
 Inject. Date: 12-Apr-2014 16:12:30 ALS Bottle#: 12 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-57666-A-12
 Misc. Info.: 480-0031029-019 =480-0031029-019
 Operator ID: RAL Instrument ID: HP5973G
 Method: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 14-Apr-2014 00:12:27 Calib Date: 10-Apr-2014 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: goliszekg

Date: 14-Apr-2014 00:15:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.0	97	619295	25.0	
* 2 Chlorobenzene-d5	82	8.620	8.620	0.0	88	261396	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.991	10.985	0.006	97	219495	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.334	5.334	0.0	0	104477	26.0	
\$ 5 Toluene-d8 (Surr)	98	7.132	7.132	0.0	94	605250	24.9	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.863	9.863	0.0	80	143794	24.1	
10 Dichlorodifluoromethane	85		1.450					
12 Chloromethane	50		1.591					
13 Vinyl chloride	62	1.707	1.713	-0.006	72	29113	2.48	
14 Bromomethane	94		2.042					
15 Chloroethane	64	2.158	2.139	0.019	67	5121	0.8169	
17 Trichlorofluoromethane	101		2.383					
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.889					
20 1,1-Dichloroethene	96		2.889					
22 Acetone	43		2.956					
24 Carbon disulfide	76		3.103					
28 Methyl acetate	43		3.255					
29 Methylene Chloride	84		3.407					
31 Methyl tert-butyl ether	73		3.584					
32 trans-1,2-Dichloroethene	96		3.596					
36 1,1-Dichloroethane	63	4.011	4.005	0.006	85	123835	8.94	
43 cis-1,2-Dichloroethene	96	4.560	4.560	0.0	70	10711	1.52	
44 2-Butanone (MEK)	43		4.584					
50 Chloroform	85		4.870					
51 1,1,1-Trichloroethane	97		4.999					
52 Cyclohexane	56		5.023					
53 Carbon tetrachloride	117		5.151					
56 Benzene	78		5.352					
57 1,2-Dichloroethane	62		5.401					
61 Trichloroethene	95		5.968					
62 Methylcyclohexane	83		6.102					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
63 1,2-Dichloropropane	63		6.193					
67 Dichlorobromomethane	83		6.480					
72 cis-1,3-Dichloropropene	75		6.901					
73 4-Methyl-2-pentanone (MIBK)	43		7.035					
74 Toluene	92		7.199					
76 trans-1,3-Dichloropropene	75		7.461					
79 1,1,2-Trichloroethane	83		7.650					
80 Tetrachloroethene	166		7.742					
82 2-Hexanone	43		7.876					
83 Chlorodibromomethane	129		8.053					
84 Ethylene Dibromide	107		8.156					
86 Chlorobenzene	112		8.650					
89 Ethylbenzene	91		8.742					
90 m-Xylene & p-Xylene	106		8.864					
91 o-Xylene	106		9.290					
92 Styrene	104		9.315					
93 Bromoform	173		9.552					
95 Isopropylbenzene	105		9.674					
98 1,1,2,2-Tetrachloroethane	83		10.040					
110 1,3-Dichlorobenzene	146		10.924					
113 1,4-Dichlorobenzene	146		11.010					
116 1,2-Dichlorobenzene	146		11.357					
117 1,2-Dibromo-3-Chloropropane	75		12.076					
119 1,2,4-Trichlorobenzene	180		12.765					
S 124 Xylenes, Total	1		30.000					

TestAmerica Buffalo

Data File: \\Bufchrom\\ChromData\\HP5973G\\20140412-31029.b\\G29209.D

Injection Date: 12-Apr-2014 16:12:30

Instrument ID: HP5973G

Operator ID: RAL

Lims ID: 480-57666-A-12

Lab Sample ID: 480-57666-12

Worklist Smp#: 19

Client ID: MW-3

Purge Vol: 5.000 mL

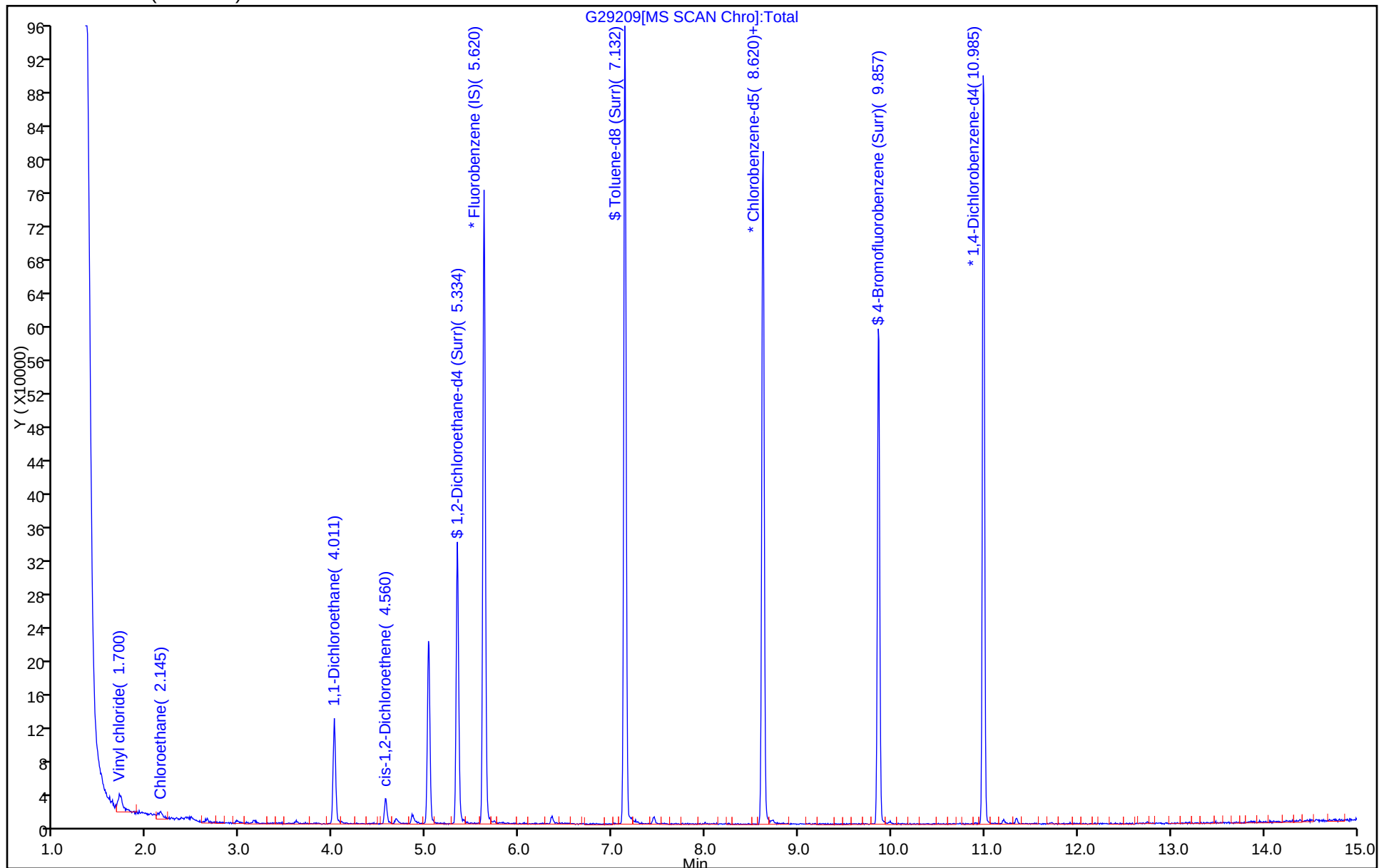
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29209.D

Injection Date: 12-Apr-2014 16:12:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-12

Lab Sample ID: 480-57666-12

Client ID: MW-3

Operator ID: RAL

ALS Bottle#: 12

Worklist Smp#: 19

Purge Vol: 5.000 mL

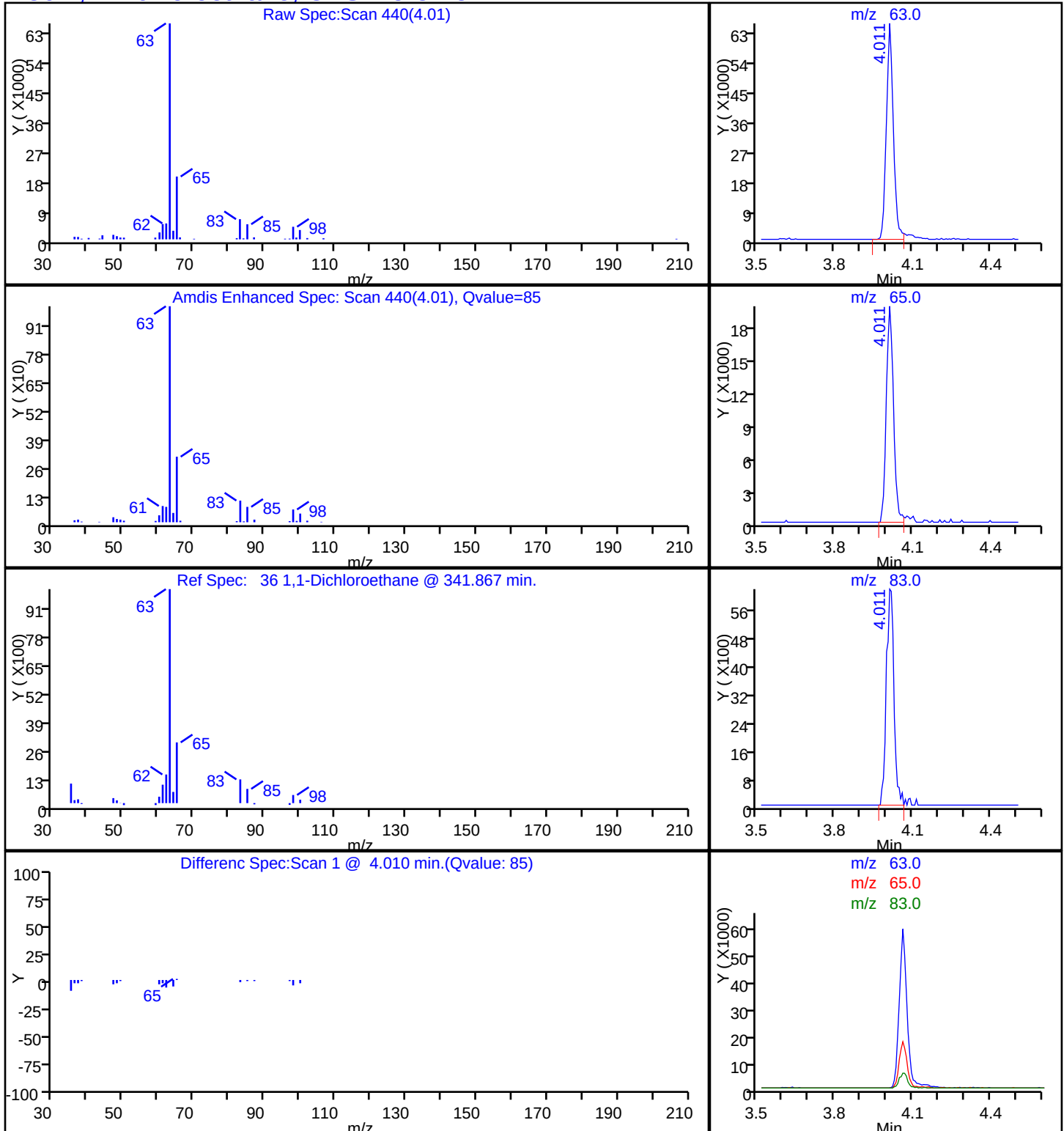
Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29209.D

Injection Date: 12-Apr-2014 16:12:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-12

Lab Sample ID: 480-57666-12

Client ID: MW-3

Operator ID: RAL

ALS Bottle#: 12

Worklist Smp#: 19

Purge Vol: 5.000 mL

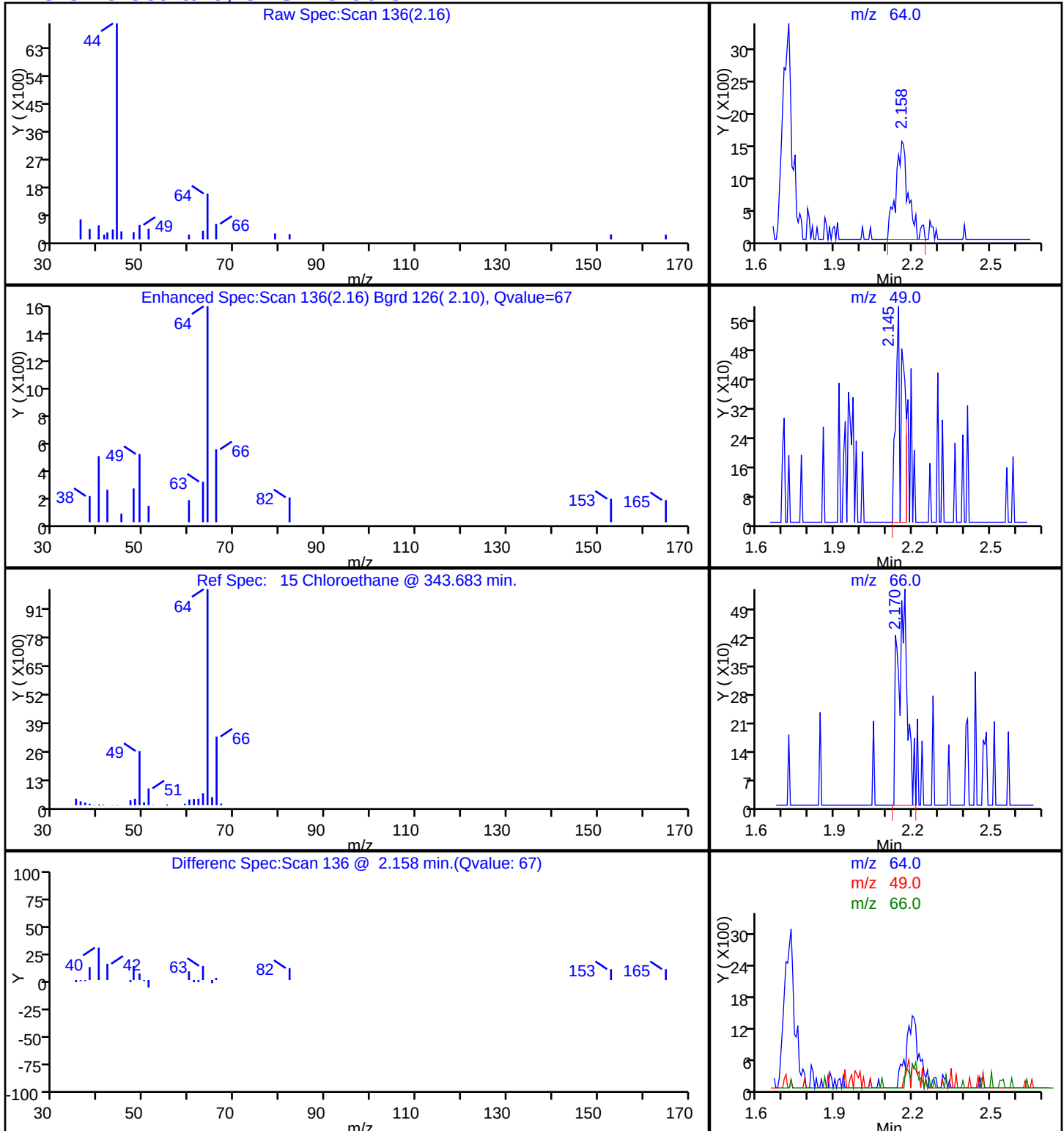
Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29209.D

Injection Date: 12-Apr-2014 16:12:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-12

Lab Sample ID: 480-57666-12

Client ID: MW-3

Operator ID: RAL

ALS Bottle#: 12

Worklist Smp#: 19

Purge Vol: 5.000 mL

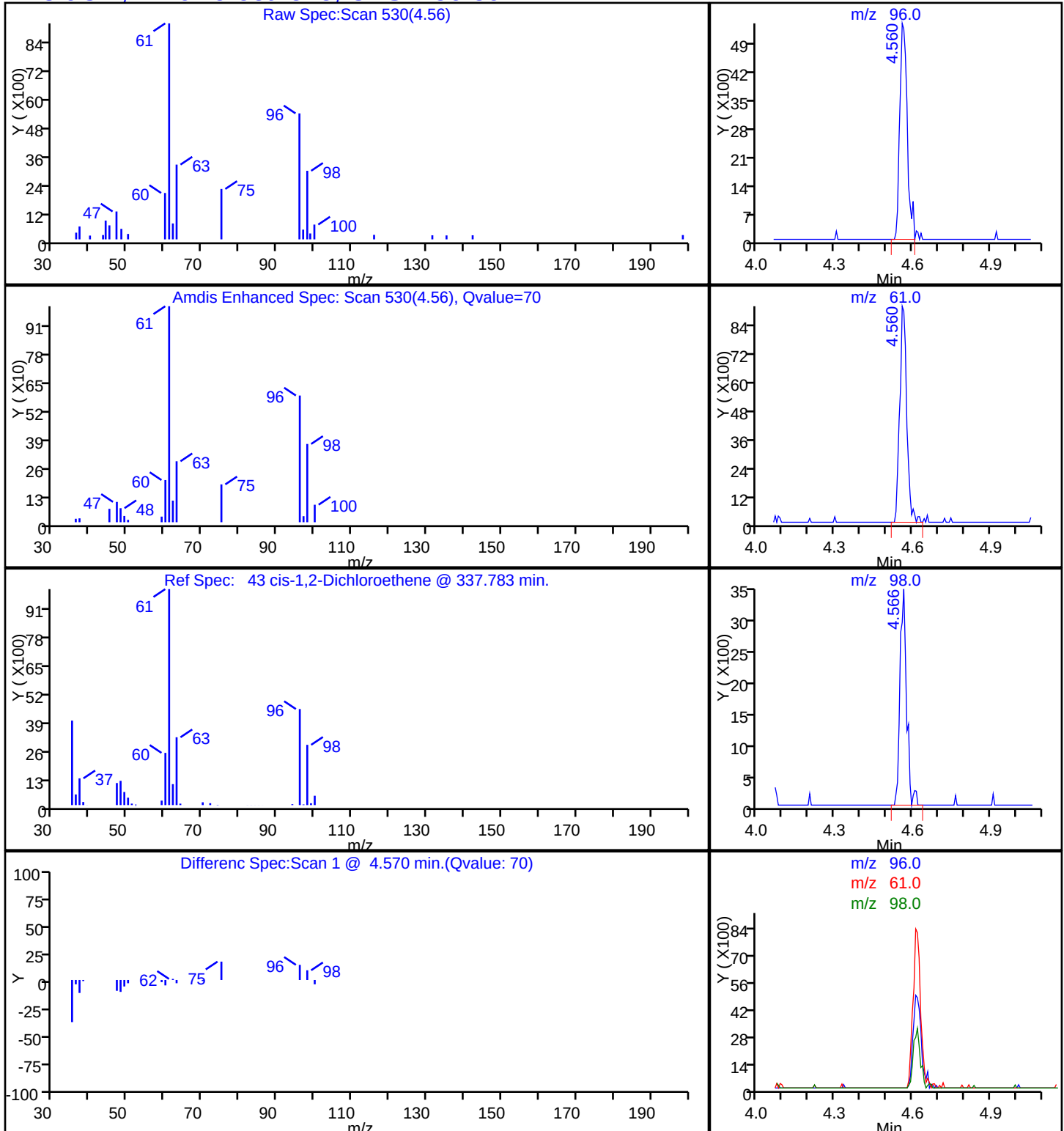
Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29209.D

Injection Date: 12-Apr-2014 16:12:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-12

Lab Sample ID: 480-57666-12

Client ID: MW-3

Operator ID: RAL

ALS Bottle#: 12

Worklist Smp#: 19

Purge Vol: 5.000 mL

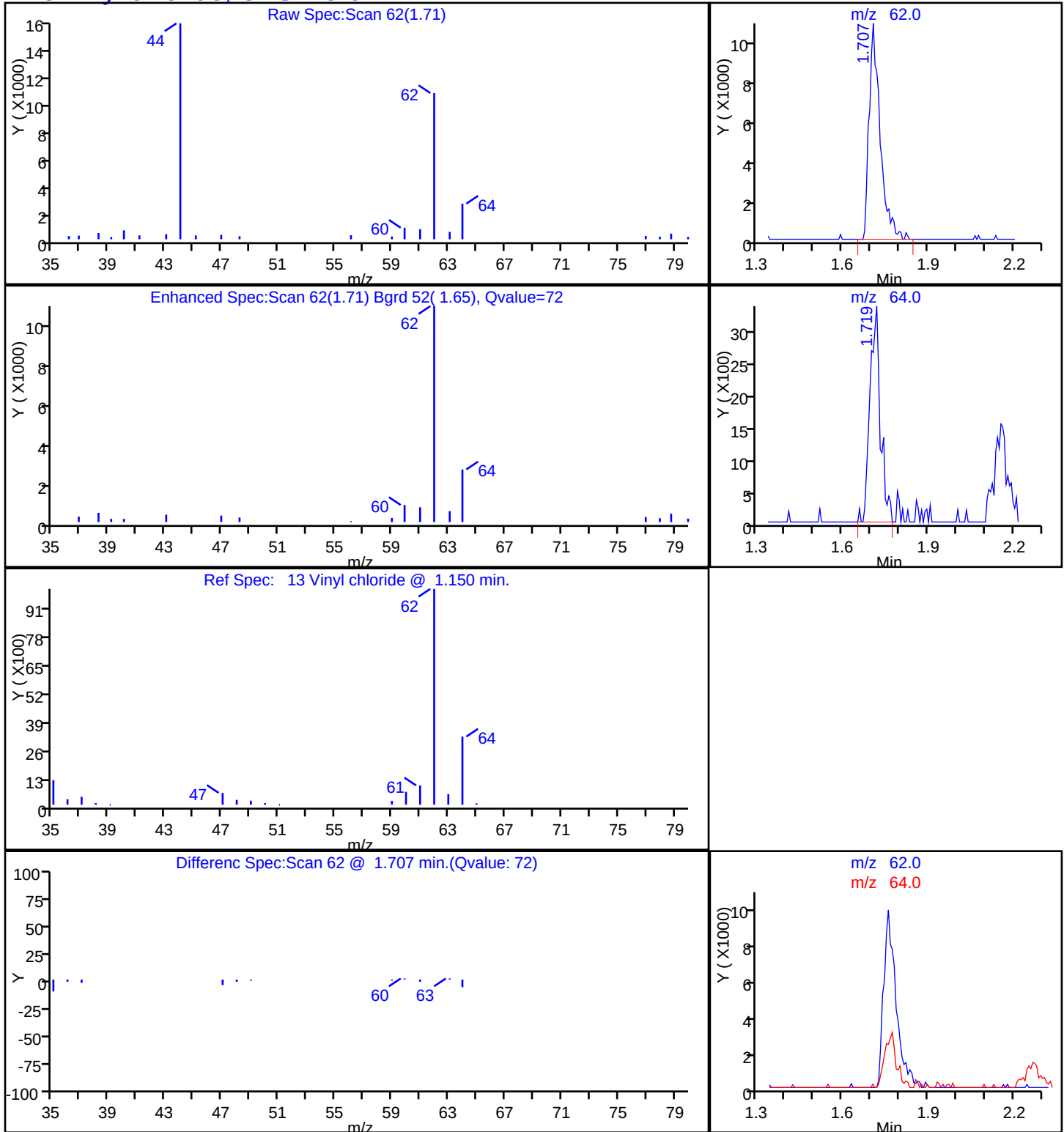
Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: MW-14D Lab Sample ID: 480-57666-13

Matrix: Ground Water Lab File ID: G29210.D

Analysis Method: 8260C Date Collected: 04/09/2014 08:40

Sample wt/vol: 5(mL) Date Analyzed: 04/12/2014 16:35

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.: 175447 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	0.82	J	1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	28		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: MW-14D Lab Sample ID: 480-57666-13

Matrix: Ground Water Lab File ID: G29210.D

Analysis Method: 8260C Date Collected: 04/09/2014 08:40

Sample wt/vol: 5(mL) Date Analyzed: 04/12/2014 16:35

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.: 175447 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	17		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		66-137
460-00-4	4-Bromofluorobenzene (Surr)	96		73-120
2037-26-5	Toluene-d8 (Surr)	101		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29210.D
 Lims ID: 480-57666-A-13 Lab Sample ID: 480-57666-13
 Client ID: MW-14D
 Sample Type: Client
 Inject. Date: 12-Apr-2014 16:35:30 ALS Bottle#: 13 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-57666-A-13
 Misc. Info.: 480-0031029-020 =480-0031029-020
 Operator ID: RAL Instrument ID: HP5973G
 Method: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 14-Apr-2014 00:12:27 Calib Date: 10-Apr-2014 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: goliszekg

Date: 14-Apr-2014 00:15:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.0	98	640364	25.0	
* 2 Chlorobenzene-d5	82	8.620	8.620	0.0	88	260063	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.985	10.985	0.0	97	228179	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.334	5.334	0.0	0	110161	26.5	
\$ 5 Toluene-d8 (Surr)	98	7.138	7.132	0.006	94	611687	25.3	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.863	9.863	0.0	81	142722	24.0	
10 Dichlorodifluoromethane	85		1.450					
12 Chloromethane	50		1.591					
13 Vinyl chloride	62	1.719	1.713	0.006	83	201338	16.6	
14 Bromomethane	94		2.042					
15 Chloroethane	64	2.151	2.139	0.012	50	1370	0.2114	
17 Trichlorofluoromethane	101		2.383					
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.889					
20 1,1-Dichloroethene	96		2.889					
22 Acetone	43		2.956					
24 Carbon disulfide	76		3.103					
28 Methyl acetate	43		3.255					
29 Methylene Chloride	84		3.407					
31 Methyl tert-butyl ether	73		3.584					
32 trans-1,2-Dichloroethene	96		3.596					
36 1,1-Dichloroethane	63	4.011	4.005	0.006	60	11789	0.8228	
43 cis-1,2-Dichloroethene	96	4.566	4.560	0.006	74	201821	27.8	
44 2-Butanone (MEK)	43		4.584					
50 Chloroform	85		4.870					
51 1,1,1-Trichloroethane	97		4.999					
52 Cyclohexane	56		5.023					
53 Carbon tetrachloride	117		5.151					
56 Benzene	78		5.352					
57 1,2-Dichloroethane	62		5.401					
61 Trichloroethene	95		5.968					
62 Methylcyclohexane	83		6.102					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
63 1,2-Dichloropropane	63		6.193					
67 Dichlorobromomethane	83		6.480					
72 cis-1,3-Dichloropropene	75		6.901					
73 4-Methyl-2-pentanone (MIBK)	43		7.035					
74 Toluene	92		7.199					
76 trans-1,3-Dichloropropene	75		7.461					
79 1,1,2-Trichloroethane	83		7.650					
80 Tetrachloroethene	166		7.742					
82 2-Hexanone	43		7.876					
83 Chlorodibromomethane	129		8.053					
84 Ethylene Dibromide	107		8.156					
86 Chlorobenzene	112		8.650					
89 Ethylbenzene	91		8.742					
90 m-Xylene & p-Xylene	106		8.864					
91 o-Xylene	106		9.290					
92 Styrene	104		9.315					
93 Bromoform	173		9.552					
95 Isopropylbenzene	105		9.674					
98 1,1,2,2-Tetrachloroethane	83		10.040					
110 1,3-Dichlorobenzene	146		10.924					
113 1,4-Dichlorobenzene	146		11.010					
116 1,2-Dichlorobenzene	146		11.357					
117 1,2-Dibromo-3-Chloropropane	75		12.076					
119 1,2,4-Trichlorobenzene	180		12.765					
S 124 Xylenes, Total	1		30.000					

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29210.D

Injection Date: 12-Apr-2014 16:35:30

Instrument ID: HP5973G

Operator ID: RAL

Lims ID: 480-57666-A-13

Lab Sample ID: 480-57666-13

Worklist Smp#: 20

Client ID: MW-14D

Purge Vol: 5.000 mL

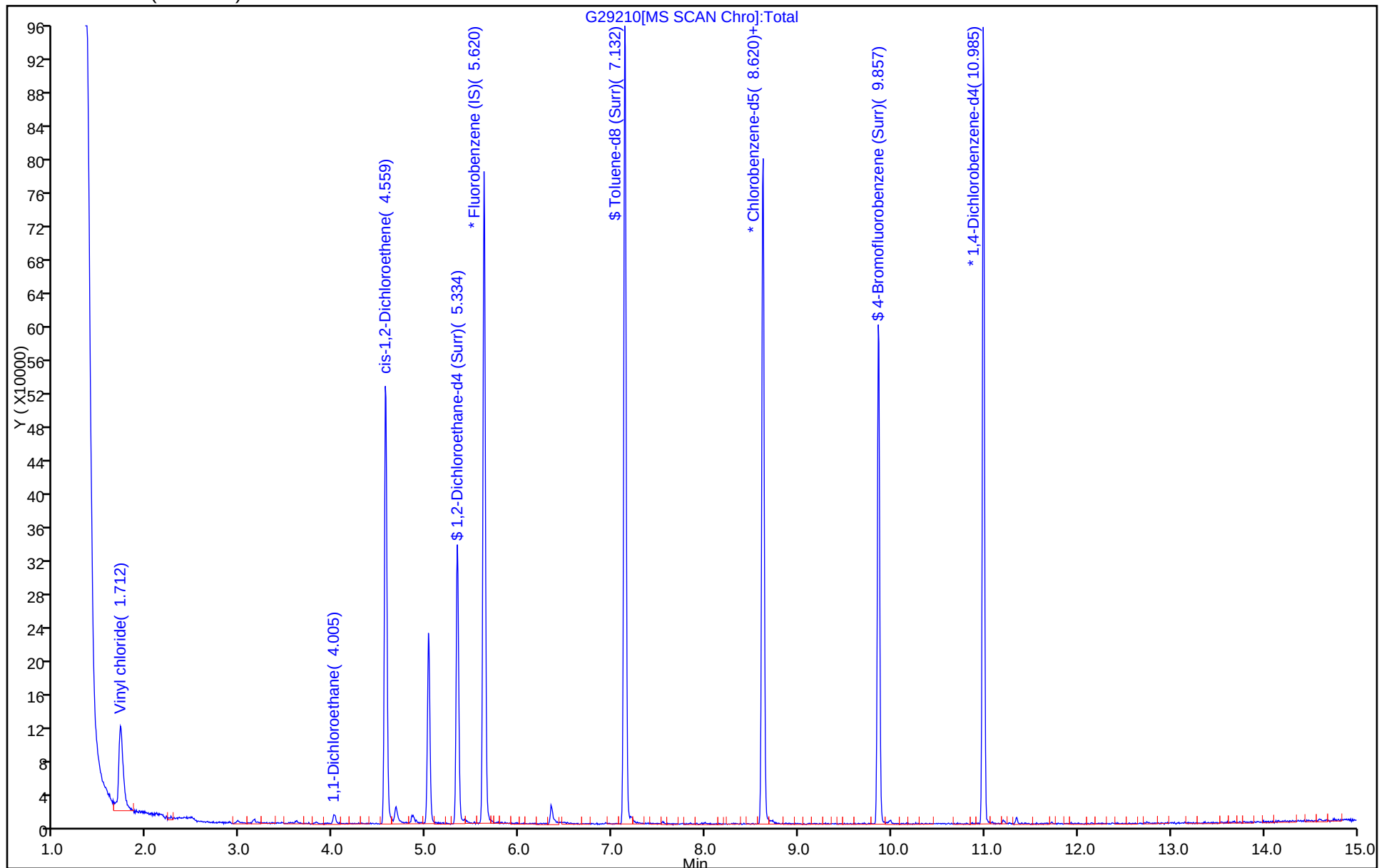
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29210.D

Injection Date: 12-Apr-2014 16:35:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-13

Lab Sample ID: 480-57666-13

Client ID: MW-14D

Operator ID: RAL

ALS Bottle#: 13

Worklist Smp#: 20

Purge Vol: 5.000 mL

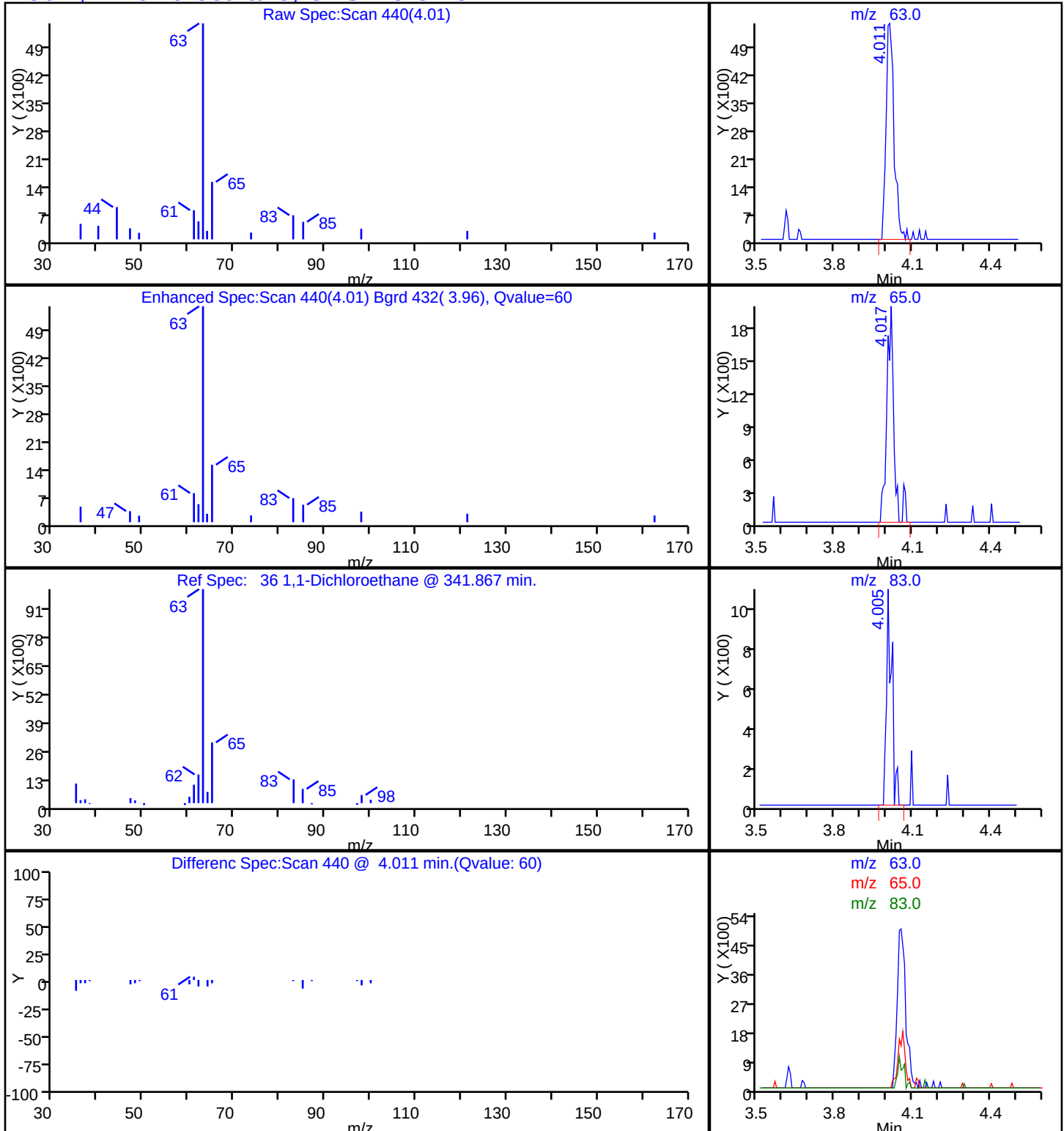
Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29210.D

Injection Date: 12-Apr-2014 16:35:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-13

Lab Sample ID: 480-57666-13

Client ID: MW-14D

Operator ID: RAL

ALS Bottle#: 13

Worklist Smp#: 20

Purge Vol: 5.000 mL

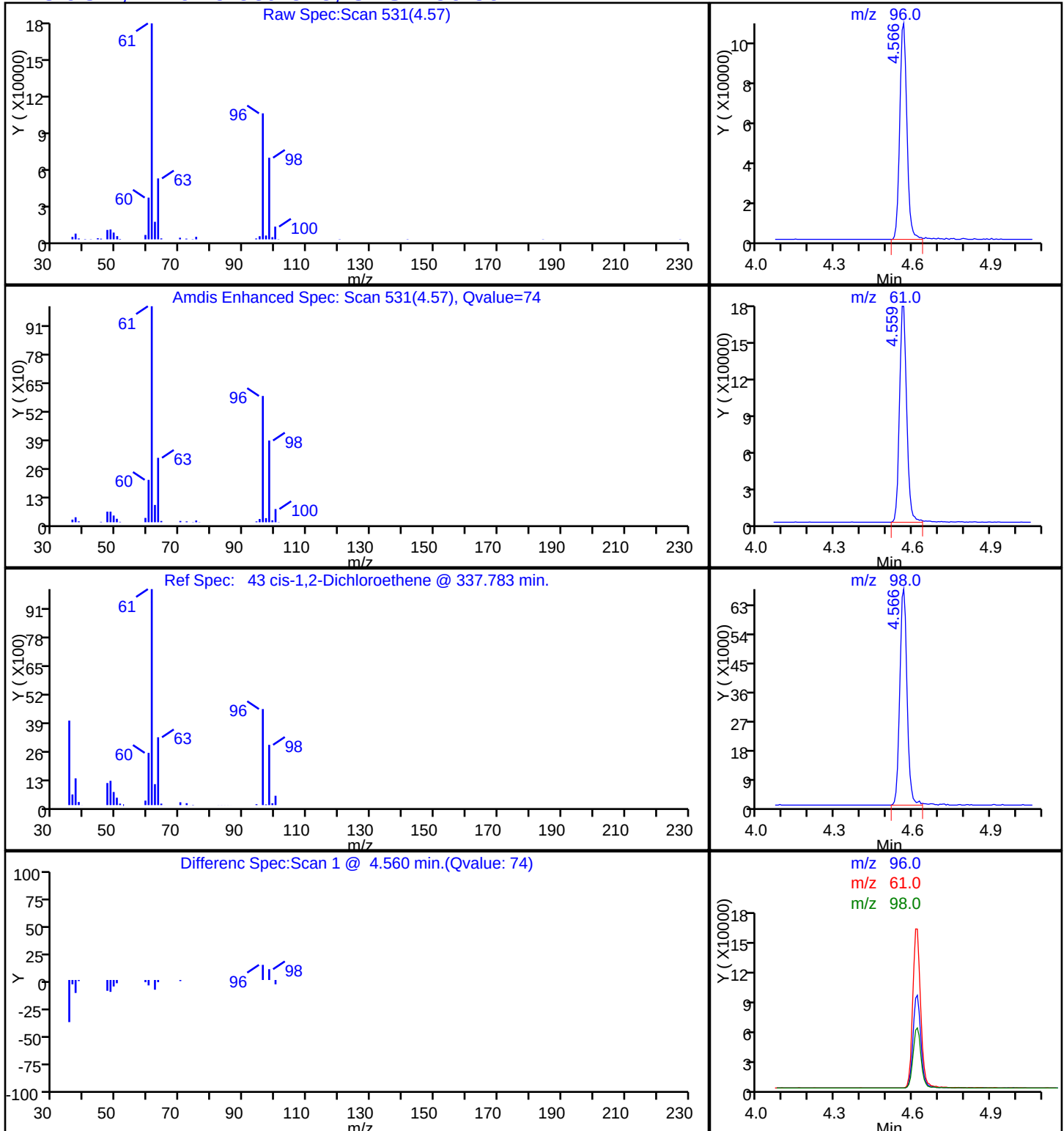
Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29210.D

Injection Date: 12-Apr-2014 16:35:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-13

Lab Sample ID: 480-57666-13

Client ID: MW-14D

Operator ID: RAL

ALS Bottle#: 13

Worklist Smp#: 20

Purge Vol: 5.000 mL

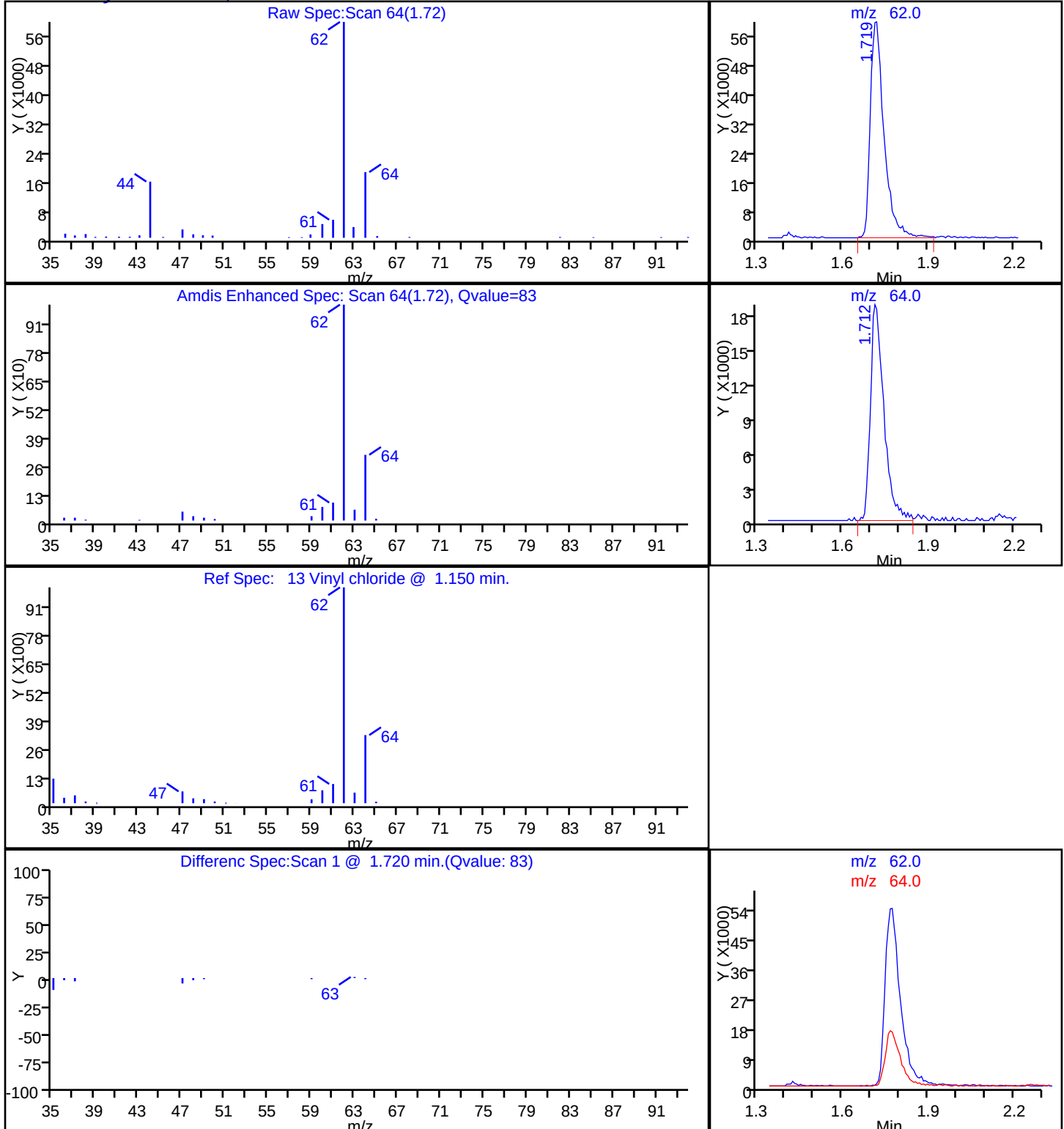
Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: MW-14S Lab Sample ID: 480-57666-14

Matrix: Ground Water Lab File ID: G29211.D

Analysis Method: 8260C Date Collected: 04/09/2014 09:15

Sample wt/vol: 5(mL) Date Analyzed: 04/12/2014 16:58

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.: 175447 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	19		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	1.3		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	0.93	J	1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	14		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	25		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: MW-14S Lab Sample ID: 480-57666-14

Matrix: Ground Water Lab File ID: G29211.D

Analysis Method: 8260C Date Collected: 04/09/2014 09:15

Sample wt/vol: 5(mL) Date Analyzed: 04/12/2014 16:58

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.: 175447 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	19		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		66-137
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
2037-26-5	Toluene-d8 (Surr)	99		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29211.D
 Lims ID: 480-57666-A-14 Lab Sample ID: 480-57666-14
 Client ID: MW-14S
 Sample Type: Client
 Inject. Date: 12-Apr-2014 16:58:30 ALS Bottle#: 14 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-57666-A-14
 Misc. Info.: 480-0031029-021 =480-0031029-021
 Operator ID: RAL Instrument ID: HP5973G
 Method: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 14-Apr-2014 00:16:40 Calib Date: 10-Apr-2014 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: goliszekg

Date: 14-Apr-2014 00:16:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.0	98	622194	25.0	
* 2 Chlorobenzene-d5	82	8.620	8.620	0.0	89	258969	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.985	10.985	0.0	97	225300	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.334	5.334	0.0	0	106635	26.4	
\$ 5 Toluene-d8 (Surr)	98	7.132	7.132	0.0	94	595144	24.7	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.863	9.863	0.0	81	142943	24.2	
10 Dichlorodifluoromethane	85		1.450					
12 Chloromethane	50		1.591					
13 Vinyl chloride	62	1.712	1.713	-0.001	83	225422	19.1	
14 Bromomethane	94		2.042					
15 Chloroethane	64	2.157	2.139	0.018	91	88552	14.1	
17 Trichlorofluoromethane	101		2.383					
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.889					
20 1,1-Dichloroethene	96	2.901	2.901	0.012	40	1560	0.1825	M
22 Acetone	43		2.956					
24 Carbon disulfide	76		3.103					
28 Methyl acetate	43		3.255					
29 Methylene Chloride	84		3.407					
31 Methyl tert-butyl ether	73		3.584					
32 trans-1,2-Dichloroethene	96	3.602	3.596	0.006	54	3080	0.4356	
36 1,1-Dichloroethane	63	4.011	4.005	0.006	85	261506	18.8	
43 cis-1,2-Dichloroethene	96	4.566	4.560	0.006	74	177218	25.1	
44 2-Butanone (MEK)	43		4.584					
50 Chloroform	85		4.870					
51 1,1,1-Trichloroethane	97		4.999					
52 Cyclohexane	56		5.023					
53 Carbon tetrachloride	117		5.151					
56 Benzene	78	5.352	5.352	0.0	62	24897	0.9305	
57 1,2-Dichloroethane	62	5.413	5.401	0.012	87	14289	1.28	
61 Trichloroethene	95		5.968					
62 Methylcyclohexane	83		6.102					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
63 1,2-Dichloropropane	63		6.193					
67 Dichlorobromomethane	83		6.480					
72 cis-1,3-Dichloropropene	75		6.901					
73 4-Methyl-2-pentanone (MIBK)	43		7.035					
74 Toluene	92		7.199					
76 trans-1,3-Dichloropropene	75		7.461					
79 1,1,2-Trichloroethane	83		7.650					
80 Tetrachloroethene	166		7.742					
82 2-Hexanone	43		7.876					
83 Chlorodibromomethane	129		8.053					
84 Ethylene Dibromide	107		8.156					
86 Chlorobenzene	112		8.650					
89 Ethylbenzene	91		8.742					
90 m-Xylene & p-Xylene	106		8.864					
91 o-Xylene	106		9.290					
92 Styrene	104		9.315					
93 Bromoform	173		9.552					
95 Isopropylbenzene	105		9.674					
98 1,1,2,2-Tetrachloroethane	83		10.040					
110 1,3-Dichlorobenzene	146		10.924					
113 1,4-Dichlorobenzene	146		11.010					
116 1,2-Dichlorobenzene	146		11.357					
117 1,2-Dibromo-3-Chloropropane	75		12.076					
119 1,2,4-Trichlorobenzene	180		12.765					
S 124 Xylenes, Total	1		30.000					

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29211.D

Injection Date: 12-Apr-2014 16:58:30

Instrument ID: HP5973G

Operator ID: RAL

Lims ID: 480-57666-A-14

Lab Sample ID: 480-57666-14

Worklist Smp#: 21

Client ID: MW-14S

Purge Vol: 5.000 mL

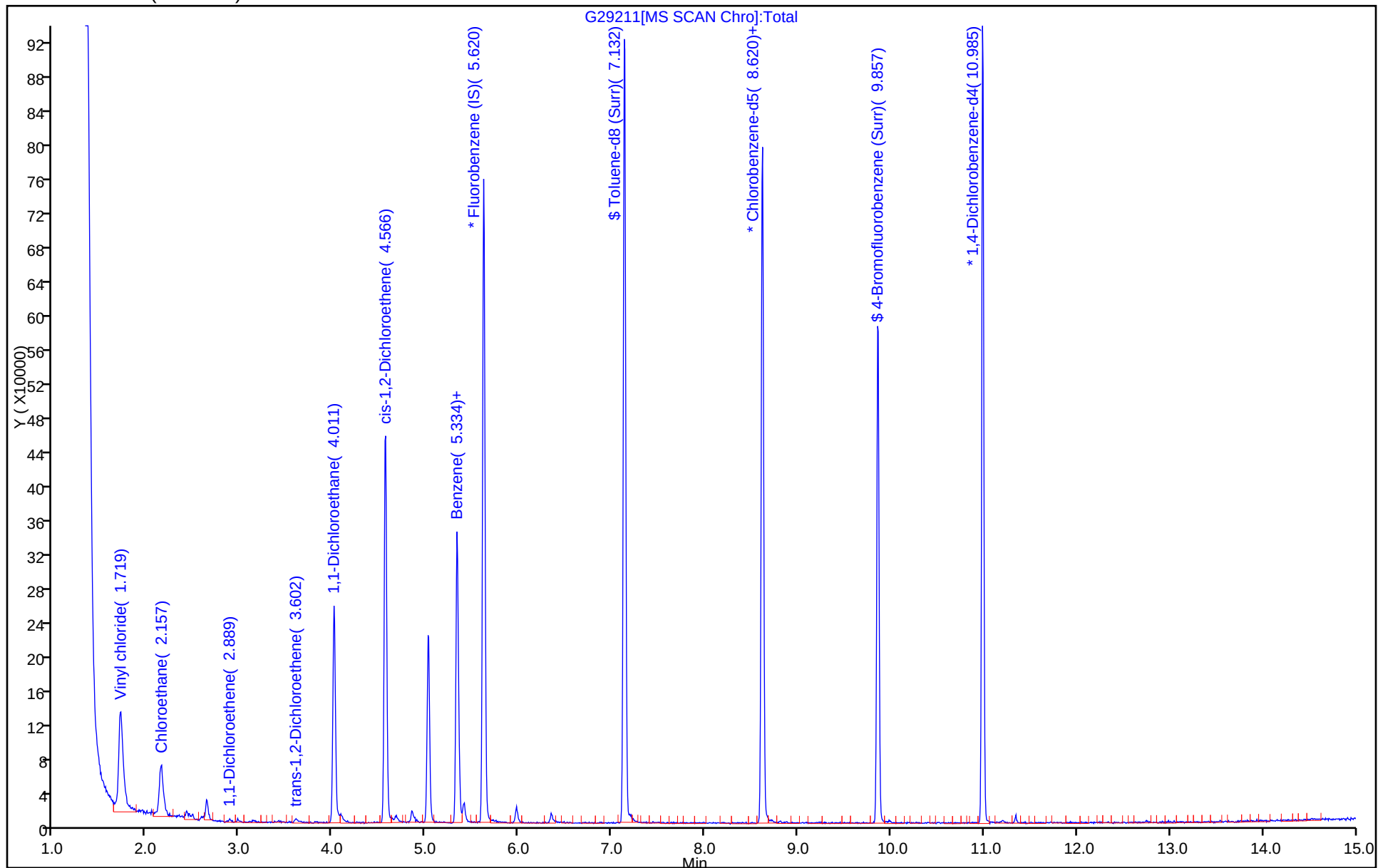
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29211.D

Injection Date: 12-Apr-2014 16:58:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-14

Lab Sample ID: 480-57666-14

Client ID: MW-14S

Operator ID: RAL

ALS Bottle#: 14

Worklist Smp#: 21

Purge Vol: 5.000 mL

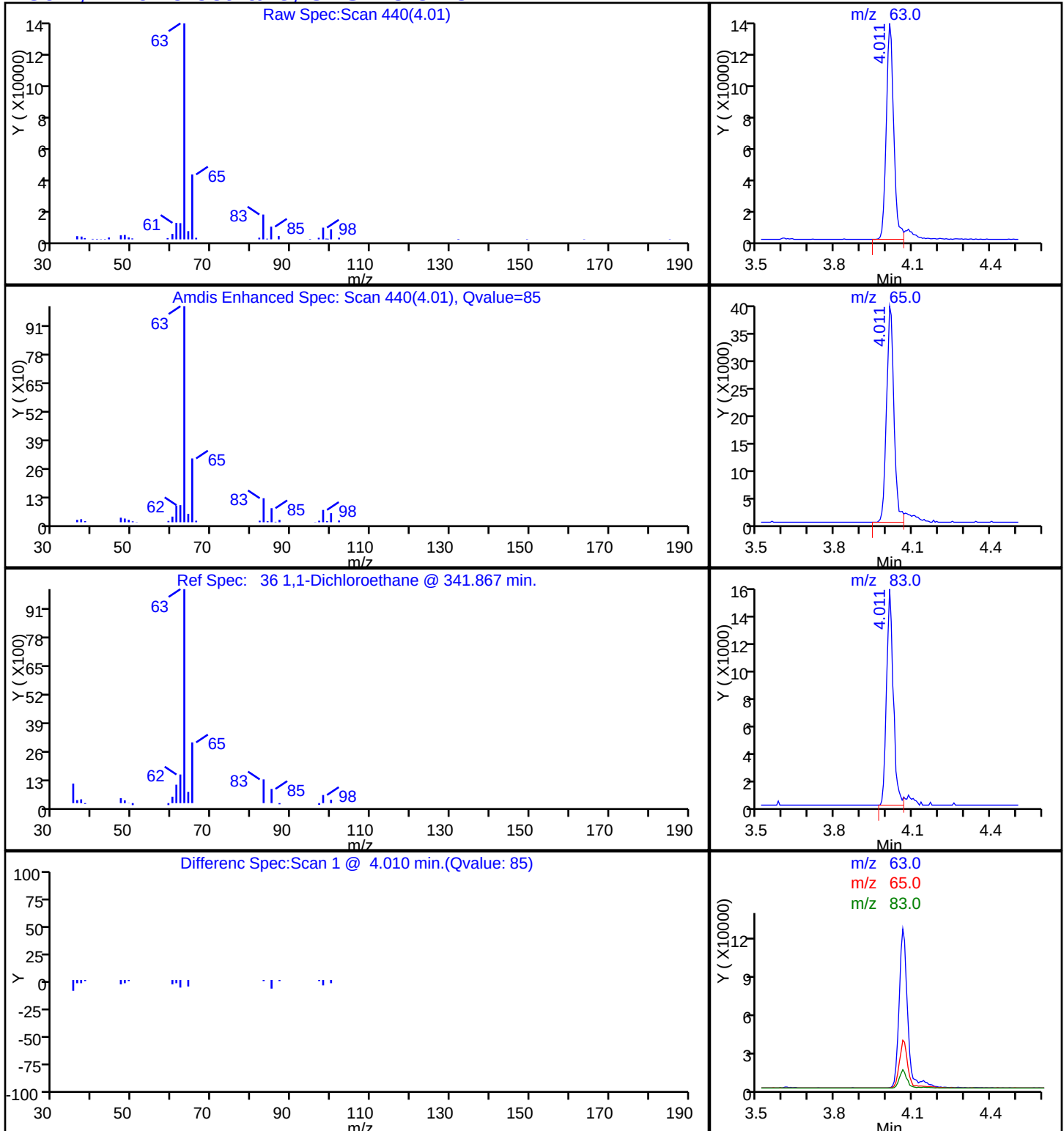
Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29211.D

Injection Date: 12-Apr-2014 16:58:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-14

Lab Sample ID: 480-57666-14

Client ID: MW-14S

Operator ID: RAL

ALS Bottle#: 14

Worklist Smp#: 21

Purge Vol: 5.000 mL

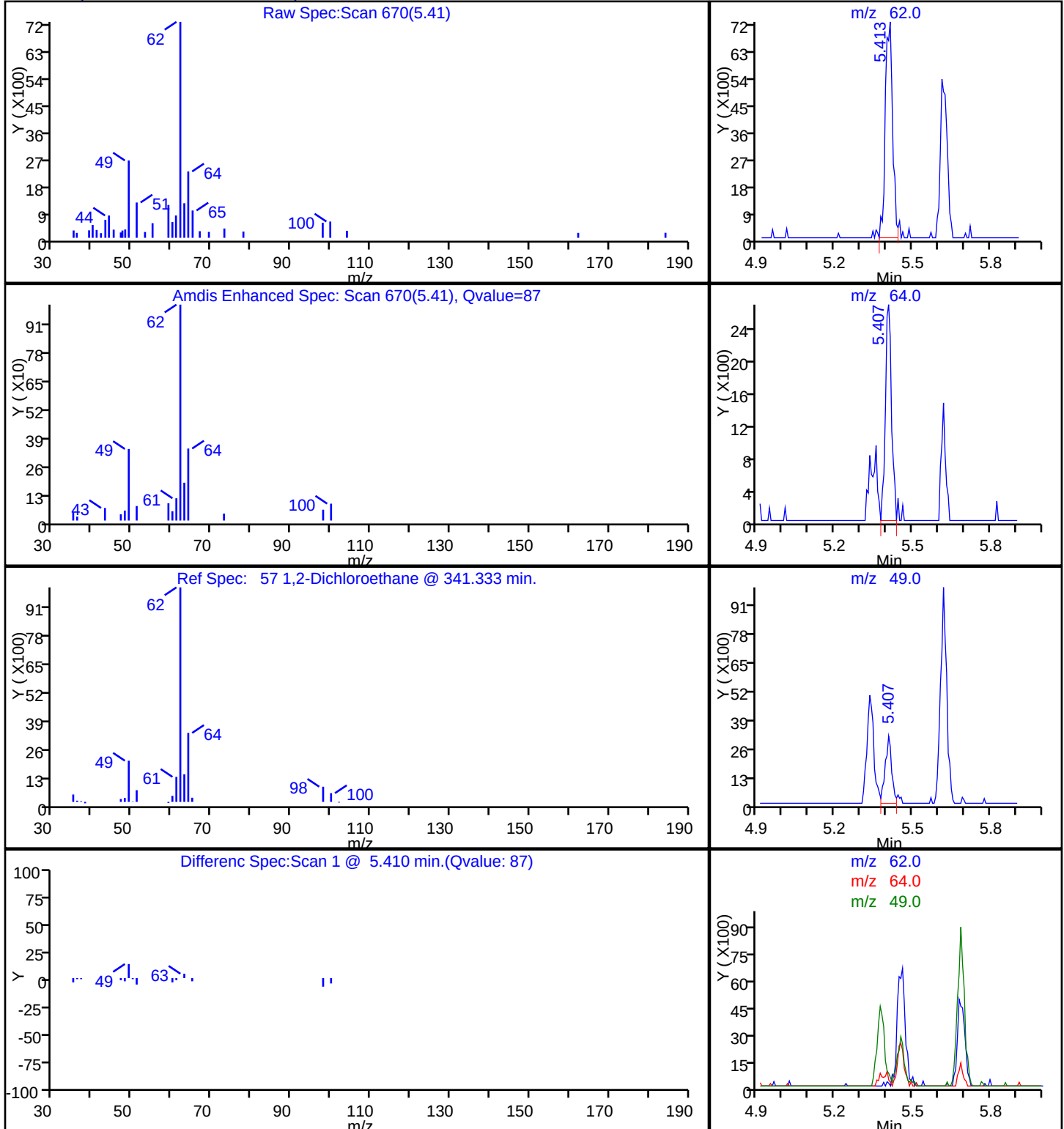
Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 1,2-Dichloroethane, CAS: 107-06-2

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29211.D

Injection Date: 12-Apr-2014 16:58:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-14

Lab Sample ID: 480-57666-14

Client ID: MW-14S

Operator ID: RAL

ALS Bottle#: 14

Worklist Smp#: 21

Purge Vol: 5.000 mL

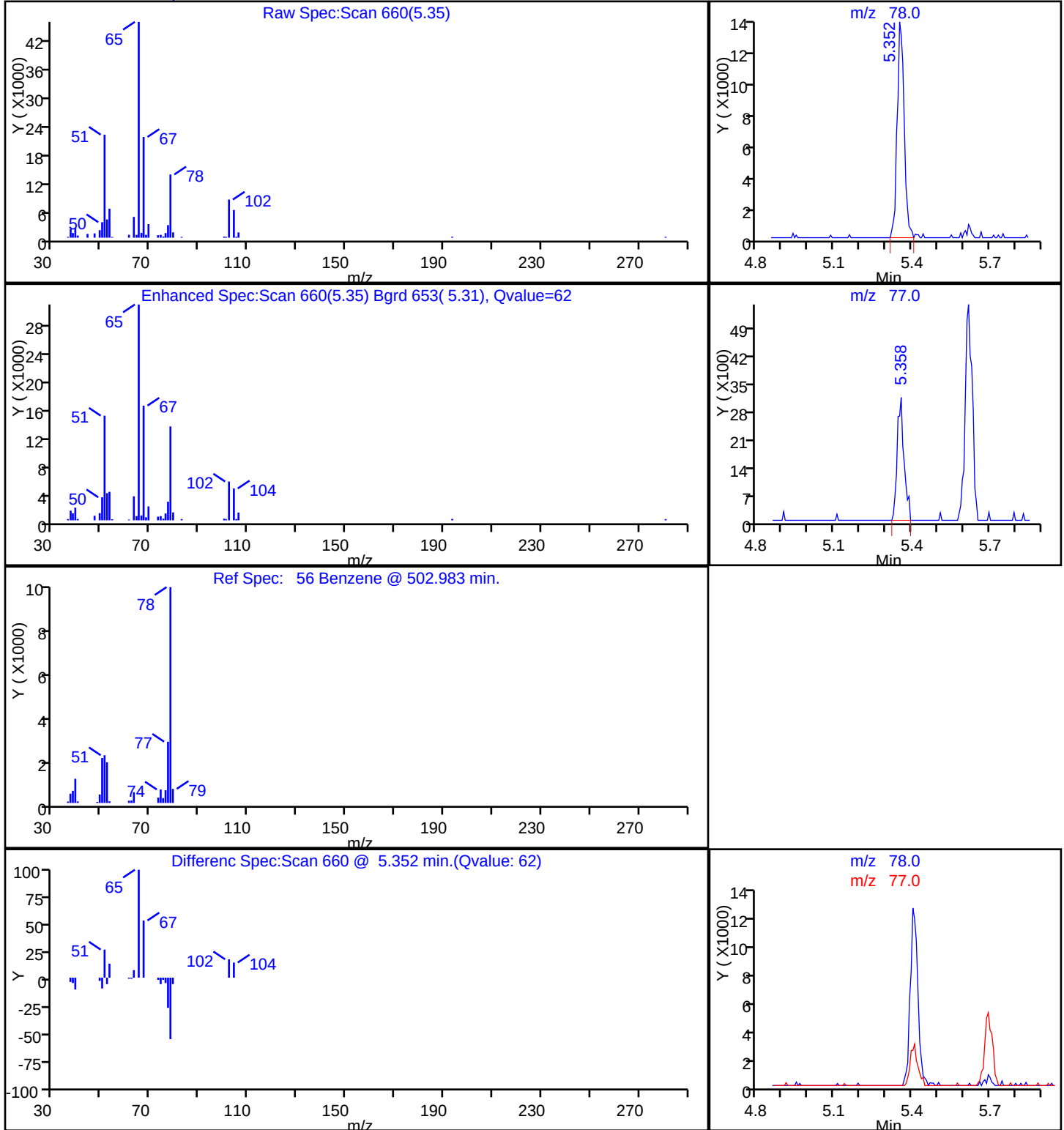
Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

56 Benzene, CAS: 71-43-2

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29211.D

Injection Date: 12-Apr-2014 16:58:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-14

Lab Sample ID: 480-57666-14

Client ID: MW-14S

Operator ID: RAL

ALS Bottle#: 14

Worklist Smp#: 21

Purge Vol: 5.000 mL

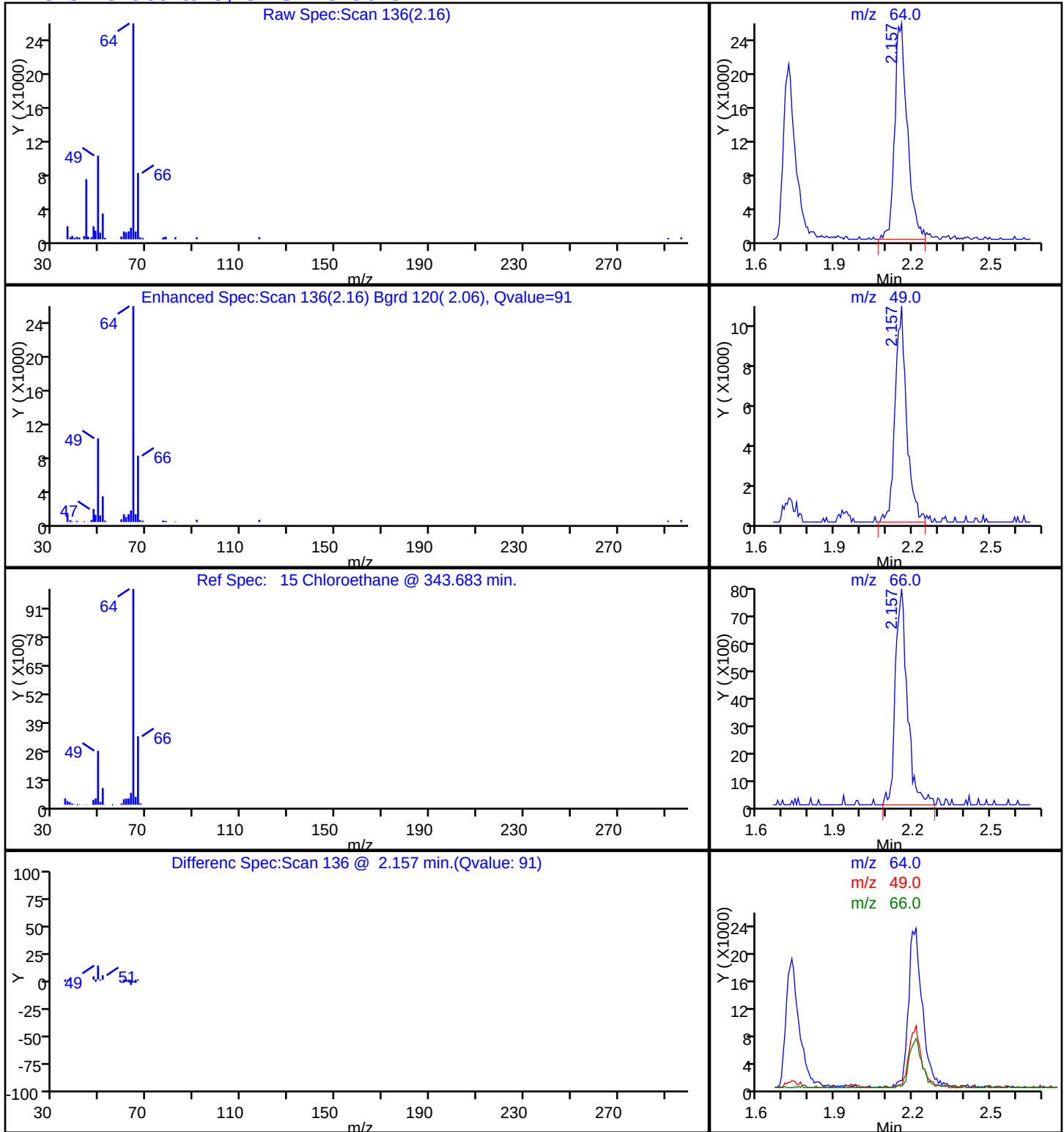
Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29211.D

Injection Date: 12-Apr-2014 16:58:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-14

Lab Sample ID: 480-57666-14

Client ID: MW-14S

Operator ID: RAL

ALS Bottle#: 14

Worklist Smp#: 21

Purge Vol: 5.000 mL

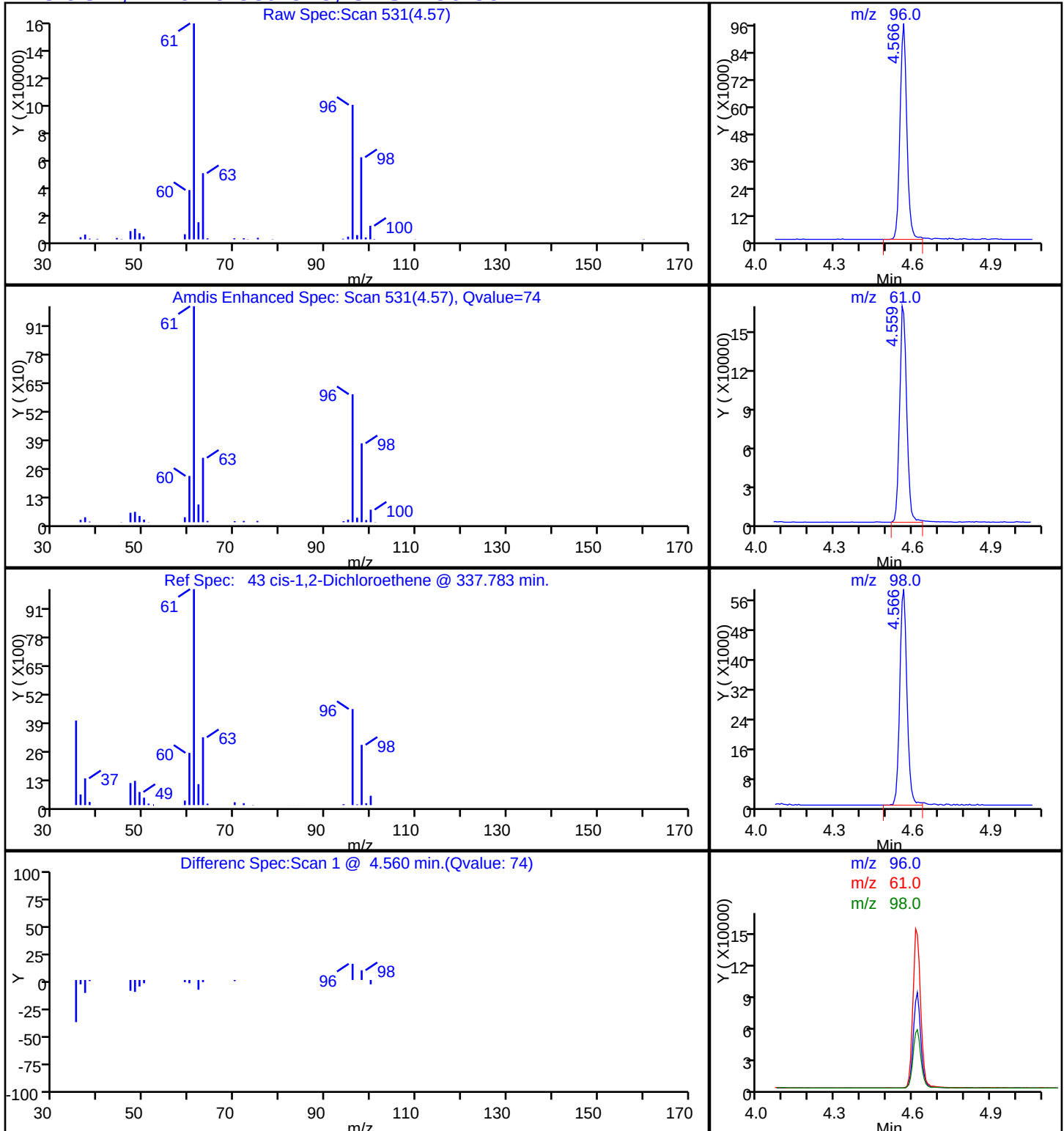
Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29211.D

Injection Date: 12-Apr-2014 16:58:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-14

Lab Sample ID: 480-57666-14

Client ID: MW-14S

Operator ID: RAL

ALS Bottle#: 14

Worklist Smp#: 21

Purge Vol: 5.000 mL

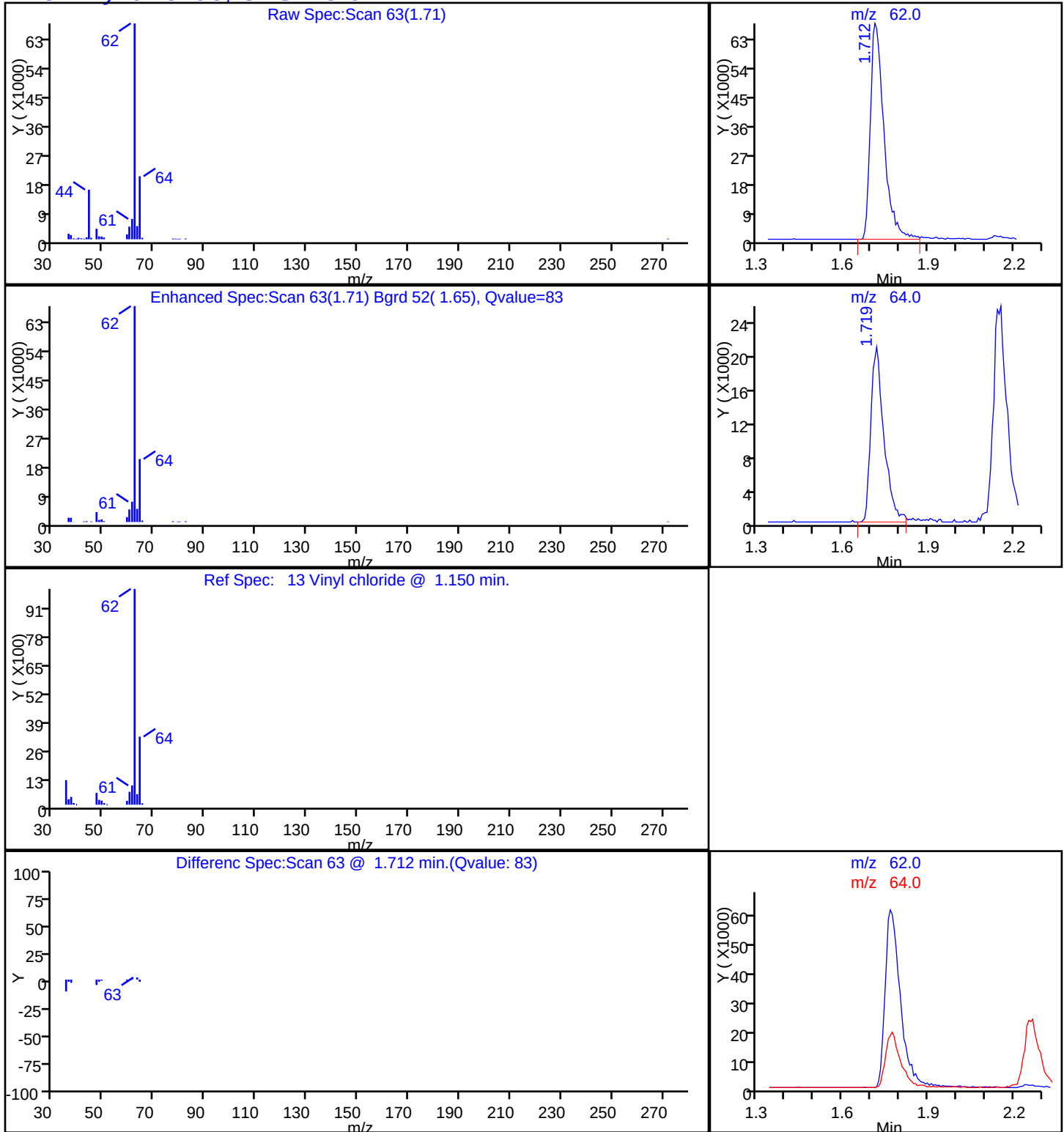
Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29211.D

Injection Date: 12-Apr-2014 16:58:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-14

Lab Sample ID: 480-57666-14

Client ID: MW-14S

Operator ID: RAL

ALS Bottle#: 14

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

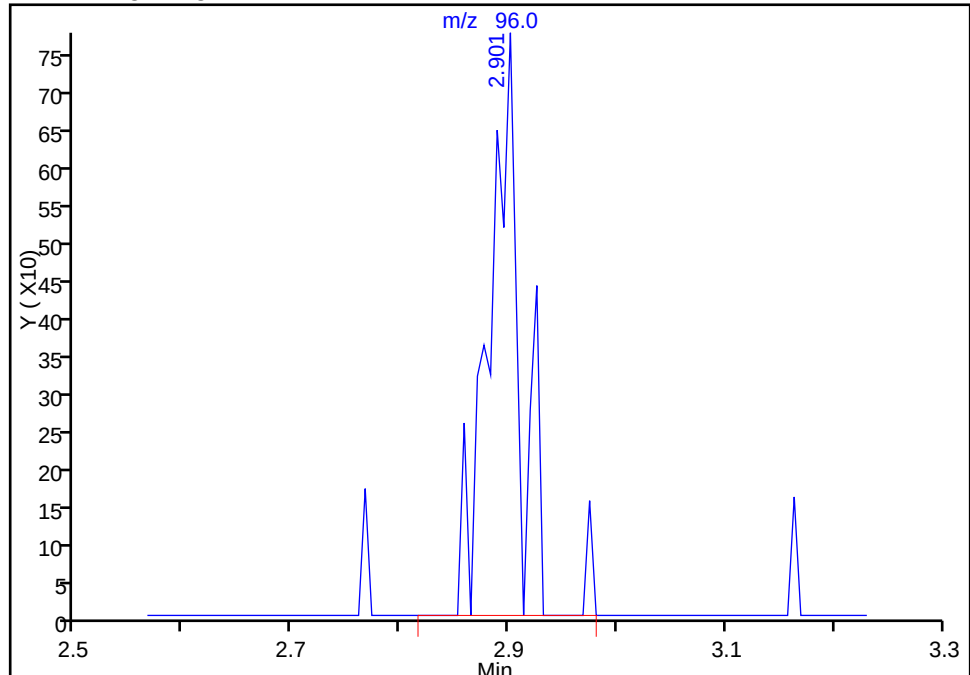
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

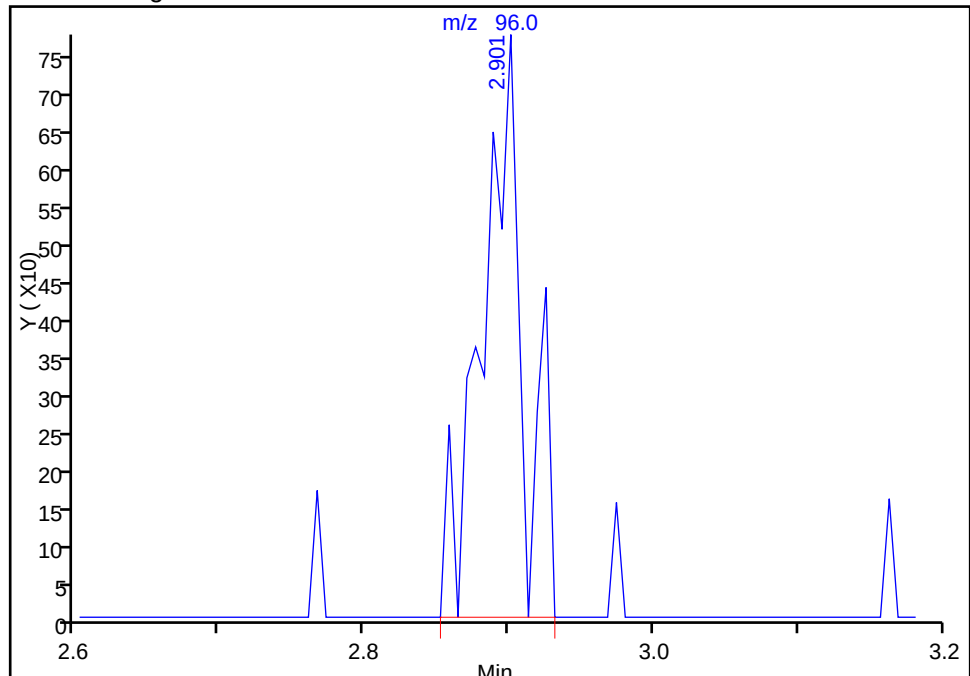
20 1,1-Dichloroethene, CAS: 75-35-4

RT: 2.90
Response: 1616
Amount: 0.189012

Processing Integration Results

RT: 2.90
Response: 1560
Amount: 0.182462

Manual Integration Results



Reviewer: goliszekg, 14-Apr-2014 00:16:40

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: MW-4 Lab Sample ID: 480-57666-15

Matrix: Ground Water Lab File ID: G29212.D

Analysis Method: 8260C Date Collected: 04/09/2014 13:25

Sample wt/vol: 5(mL) Date Analyzed: 04/12/2014 17:21

Soil Aliquot Vol: _____ Dilution Factor: 1000

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

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

Analysis Batch No.: 175447 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1000	820
79-34-5	1,1,2,2-Tetrachloroethane	ND		1000	210
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1000	310
79-00-5	1,1,2-Trichloroethane	ND		1000	230
75-34-3	1,1-Dichloroethane	880	J	1000	380
75-35-4	1,1-Dichloroethene	450	J	1000	290
120-82-1	1,2,4-Trichlorobenzene	ND		1000	410
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1000	390
106-93-4	1,2-Dibromoethane	ND		1000	730
95-50-1	1,2-Dichlorobenzene	ND		1000	790
107-06-2	1,2-Dichloroethane	ND		1000	210
78-87-5	1,2-Dichloropropane	ND		1000	720
541-73-1	1,3-Dichlorobenzene	ND		1000	780
106-46-7	1,4-Dichlorobenzene	ND		1000	840
78-93-3	2-Butanone (MEK)	ND		10000	1300
591-78-6	2-Hexanone	ND		5000	1200
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5000	2100
67-64-1	Acetone	ND		10000	3000
71-43-2	Benzene	ND		1000	410
75-27-4	Bromodichloromethane	ND		1000	390
75-25-2	Bromoform	ND		1000	260
74-83-9	Bromomethane	ND		1000	690
75-15-0	Carbon disulfide	ND		1000	190
56-23-5	Carbon tetrachloride	ND		1000	270
108-90-7	Chlorobenzene	ND		1000	750
75-00-3	Chloroethane	ND		1000	320
67-66-3	Chloroform	ND		1000	340
74-87-3	Chloromethane	ND		1000	350
156-59-2	cis-1,2-Dichloroethene	69000		1000	810
10061-01-5	cis-1,3-Dichloropropene	ND		1000	360
110-82-7	Cyclohexane	ND		1000	180
124-48-1	Dibromochloromethane	ND		1000	320
75-71-8	Dichlorodifluoromethane	ND		1000	680
100-41-4	Ethylbenzene	ND		1000	740
98-82-8	Isopropylbenzene	ND		1000	790

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: MW-4 Lab Sample ID: 480-57666-15

Matrix: Ground Water Lab File ID: G29212.D

Analysis Method: 8260C Date Collected: 04/09/2014 13:25

Sample wt/vol: 5(mL) Date Analyzed: 04/12/2014 17:21

Soil Aliquot Vol: _____ Dilution Factor: 1000

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

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

Analysis Batch No.: 175447 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2500	500
1634-04-4	Methyl tert-butyl ether	ND		1000	160
108-87-2	Methylcyclohexane	ND		1000	160
75-09-2	Methylene Chloride	ND		1000	440
100-42-5	Styrene	ND		1000	730
127-18-4	Tetrachloroethene	ND		1000	360
108-88-3	Toluene	ND		1000	510
156-60-5	trans-1,2-Dichloroethene	ND		1000	900
10061-02-6	trans-1,3-Dichloropropene	ND		1000	370
79-01-6	Trichloroethene	32000		1000	460
75-69-4	Trichlorofluoromethane	ND		1000	880
75-01-4	Vinyl chloride	3900		1000	900
1330-20-7	Xylenes, Total	ND		2000	660

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		66-137
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
2037-26-5	Toluene-d8 (Surr)	100		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29212.D
 Lims ID: 480-57666-A-15 Lab Sample ID: 480-57666-15
 Client ID: MW-4
 Sample Type: Client
 Inject. Date: 12-Apr-2014 17:21:30 ALS Bottle#: 15 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1000.0000
 Sample Info: 480-57666-A-15
 Misc. Info.: 480-0031029-022 =480-0031029-022
 Operator ID: RAL Instrument ID: HP5973G
 Method: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 14-Apr-2014 00:18:19 Calib Date: 10-Apr-2014 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: goliszekg

Date: 14-Apr-2014 00:18:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.0	98	624442	25.0	
* 2 Chlorobenzene-d5	82	8.620	8.620	0.0	88	257867	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.991	10.985	0.006	97	220980	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.334	5.334	0.0	0	109813	27.1	
\$ 5 Toluene-d8 (Surr)	98	7.132	7.132	0.0	94	599649	25.0	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.863	9.863	0.0	81	138801	23.6	
10 Dichlorodifluoromethane	85		1.450					
12 Chloromethane	50		1.591					
13 Vinyl chloride	62	1.700	1.713	-0.013	78	46576	3.94	
14 Bromomethane	94		2.042					
15 Chloroethane	64		2.139					
17 Trichlorofluoromethane	101		2.383					
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.889					
20 1,1-Dichloroethene	96	2.889	2.889	0.0	67	3875	0.4516	
22 Acetone	43		2.956					
24 Carbon disulfide	76		3.103					
28 Methyl acetate	43		3.255					
29 Methylene Chloride	84		3.407					
31 Methyl tert-butyl ether	73		3.584					
32 trans-1,2-Dichloroethene	96	3.602	3.596	0.006	69	2327	0.3279	
36 1,1-Dichloroethane	63	4.005	4.005	0.0	62	12308	0.8809	
43 cis-1,2-Dichloroethene	96	4.560	4.560	0.0	74	487325	68.7	
44 2-Butanone (MEK)	43		4.584					
50 Chloroform	85		4.870					
51 1,1,1-Trichloroethane	97		4.999					
52 Cyclohexane	56		5.023					
53 Carbon tetrachloride	117		5.151					
56 Benzene	78		5.352					
57 1,2-Dichloroethane	62		5.401					
61 Trichloroethene	95	5.962	5.968	-0.006	94	213525	31.6	
62 Methylcyclohexane	83		6.102					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
63 1,2-Dichloropropane	63		6.193					
67 Dichlorobromomethane	83		6.480					
72 cis-1,3-Dichloropropene	75		6.901					
73 4-Methyl-2-pentanone (MIBK)	43		7.035					
74 Toluene	92		7.199					
76 trans-1,3-Dichloropropene	75		7.461					
79 1,1,2-Trichloroethane	83		7.650					
80 Tetrachloroethene	166		7.742					
82 2-Hexanone	43		7.876					
83 Chlorodibromomethane	129		8.053					
84 Ethylene Dibromide	107		8.156					
86 Chlorobenzene	112		8.650					
89 Ethylbenzene	91		8.742					
90 m-Xylene & p-Xylene	106		8.864					
91 o-Xylene	106		9.290					
92 Styrene	104		9.315					
93 Bromoform	173		9.552					
95 Isopropylbenzene	105		9.674					
98 1,1,2,2-Tetrachloroethane	83		10.040					
110 1,3-Dichlorobenzene	146		10.924					
113 1,4-Dichlorobenzene	146		11.010					
116 1,2-Dichlorobenzene	146		11.357					
117 1,2-Dibromo-3-Chloropropane	75		12.076					
119 1,2,4-Trichlorobenzene	180		12.765					
S 124 Xylenes, Total	1		30.000					

TestAmerica Buffalo

Data File: \\Bufchrom\\ChromData\\HP5973G\\20140412-31029.b\\G29212.D

Injection Date: 12-Apr-2014 17:21:30

Instrument ID: HP5973G

Operator ID: RAL

Lims ID: 480-57666-A-15

Lab Sample ID: 480-57666-15

Worklist Smp#: 22

Client ID: MW-4

Purge Vol: 5.000 mL

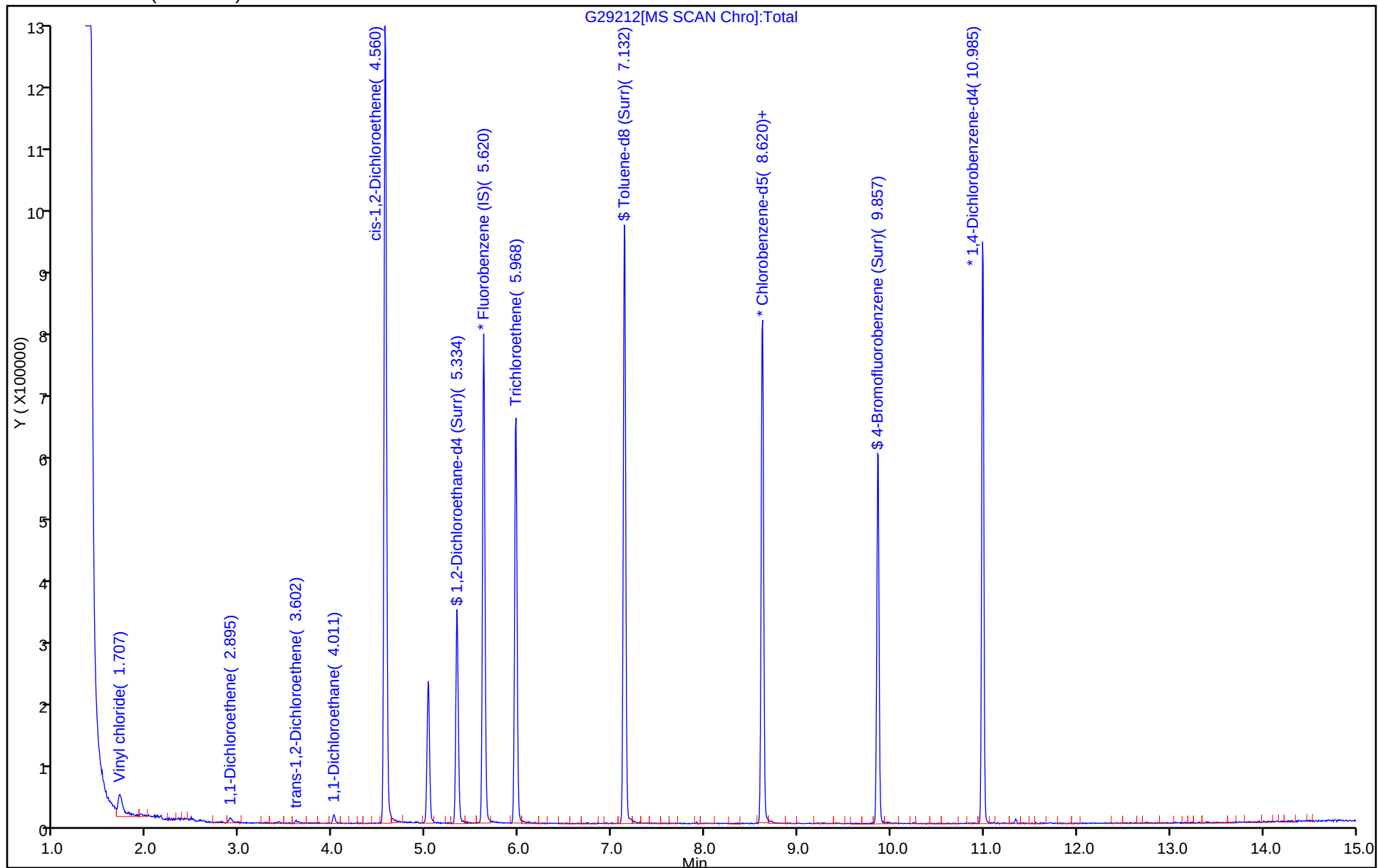
Dil. Factor: 1000.0000

ALS Bottle#: 15

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29212.D

Injection Date: 12-Apr-2014 17:21:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-15

Lab Sample ID: 480-57666-15

Client ID: MW-4

Operator ID: RAL

ALS Bottle#: 15

Worklist Smp#: 22

Purge Vol: 5.000 mL

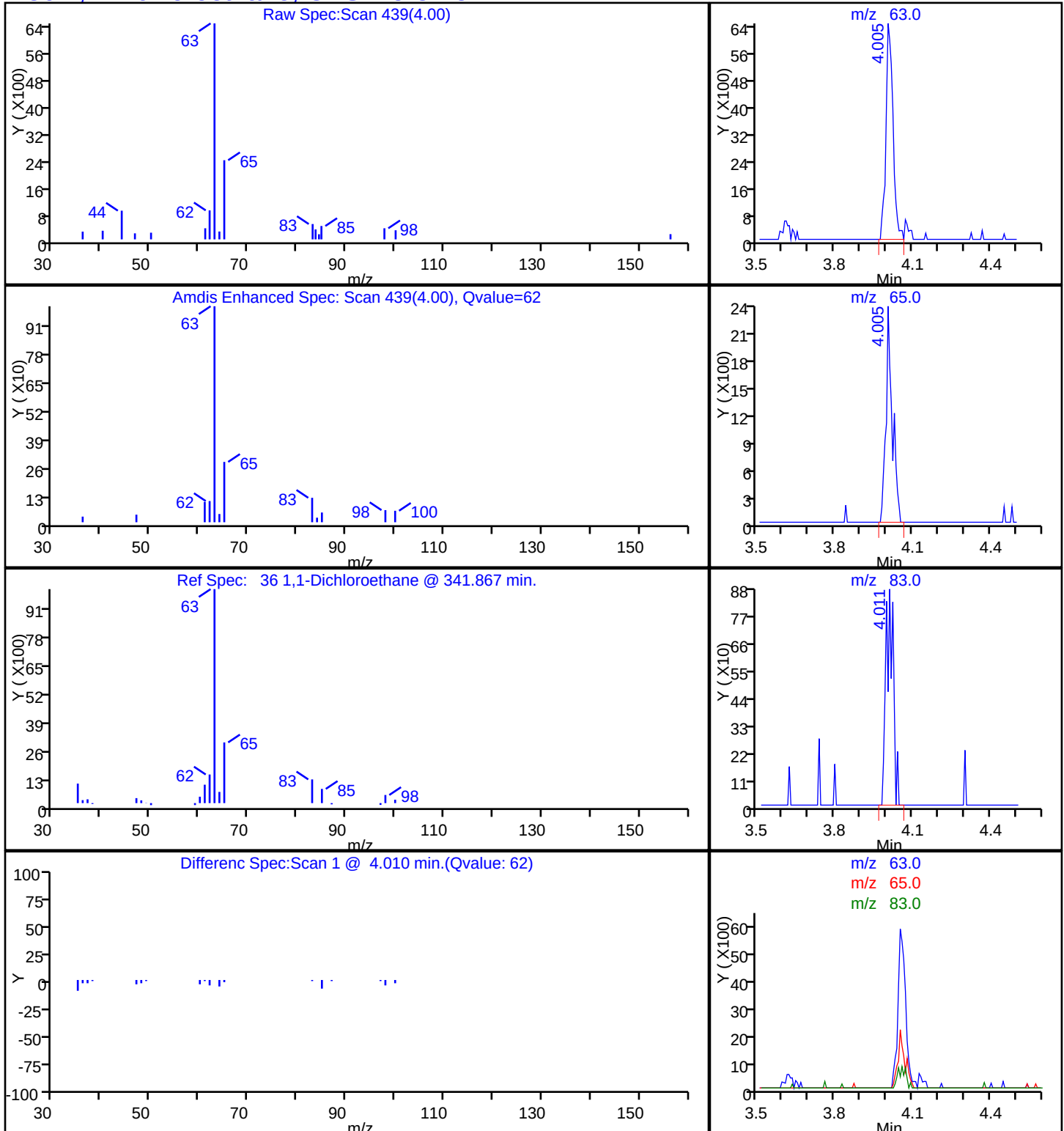
Dil. Factor: 1000.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29212.D

Injection Date: 12-Apr-2014 17:21:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-15

Lab Sample ID: 480-57666-15

Client ID: MW-4

Operator ID: RAL

ALS Bottle#: 15

Worklist Smp#: 22

Purge Vol: 5.000 mL

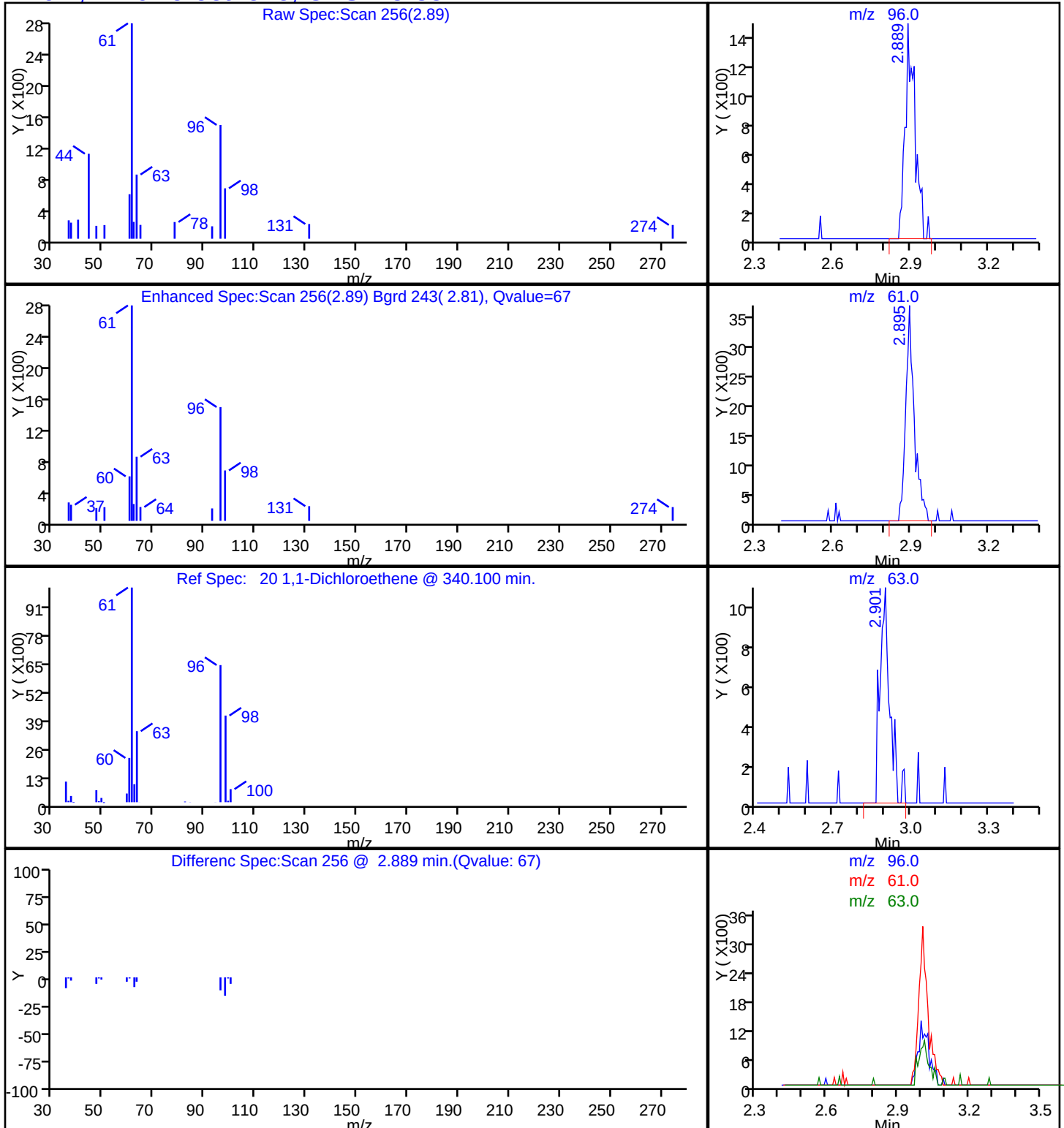
Dil. Factor: 1000.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

20 1,1-Dichloroethene, CAS: 75-35-4

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29212.D

Injection Date: 12-Apr-2014 17:21:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-15

Lab Sample ID: 480-57666-15

Client ID: MW-4

Operator ID: RAL

ALS Bottle#: 15

Worklist Smp#: 22

Purge Vol: 5.000 mL

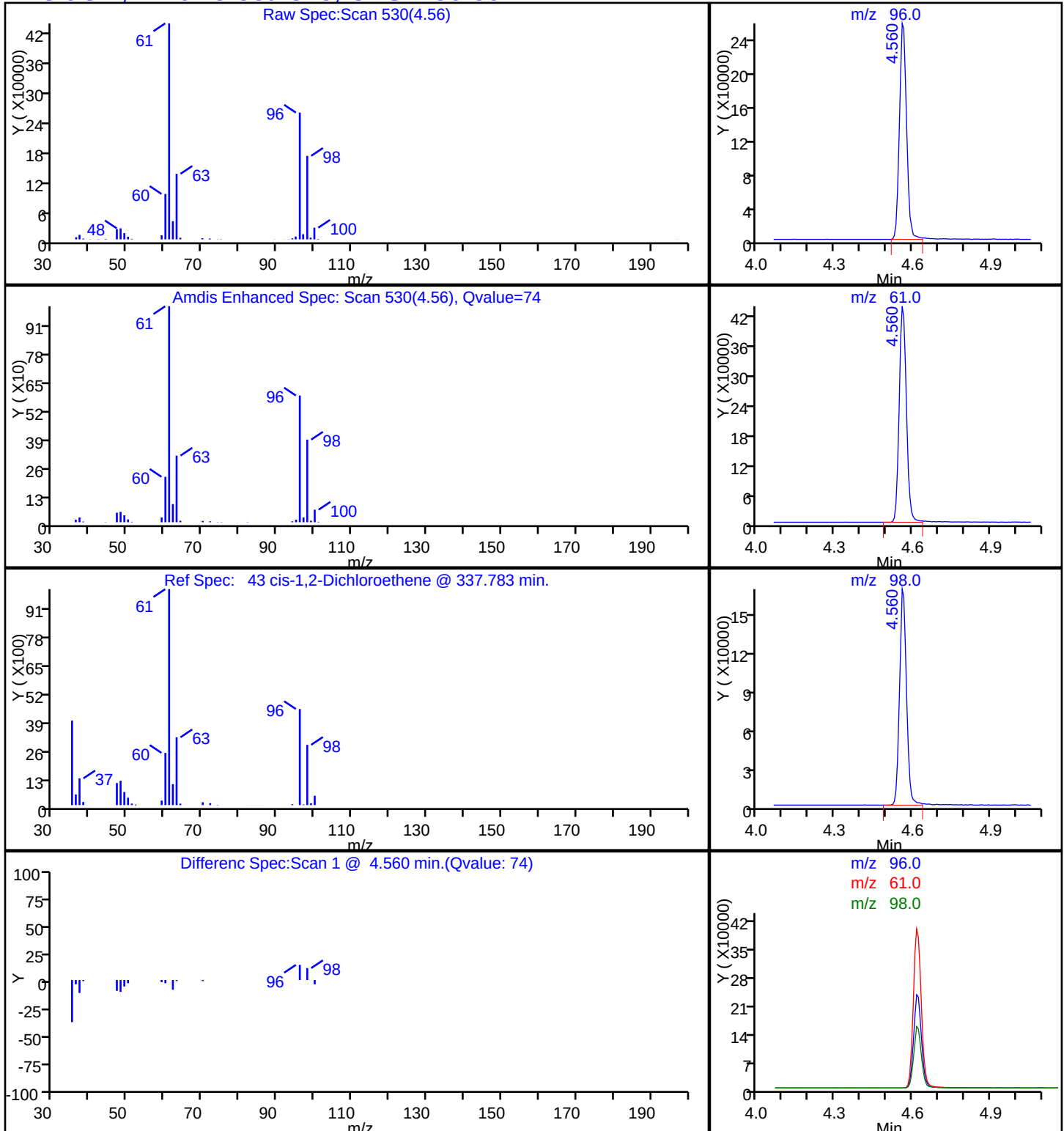
Dil. Factor: 1000.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29212.D

Injection Date: 12-Apr-2014 17:21:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-15

Lab Sample ID: 480-57666-15

Client ID: MW-4

Operator ID: RAL

ALS Bottle#: 15

Worklist Smp#: 22

Purge Vol: 5.000 mL

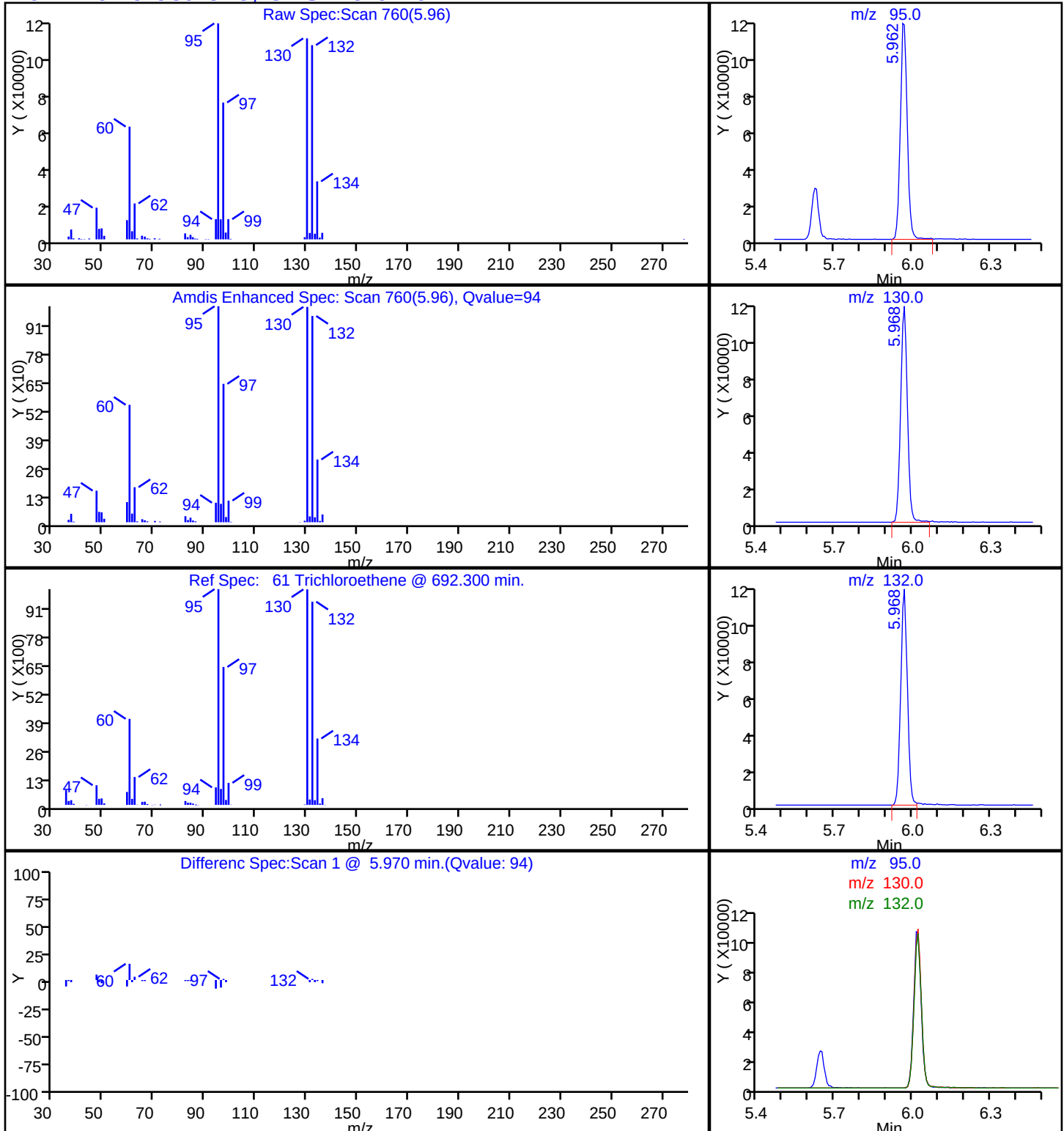
Dil. Factor: 1000.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

61 Trichloroethene, CAS: 79-01-6

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29212.D

Injection Date: 12-Apr-2014 17:21:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-15

Lab Sample ID: 480-57666-15

Client ID: MW-4

Operator ID: RAL

ALS Bottle#: 15

Worklist Smp#: 22

Purge Vol: 5.000 mL

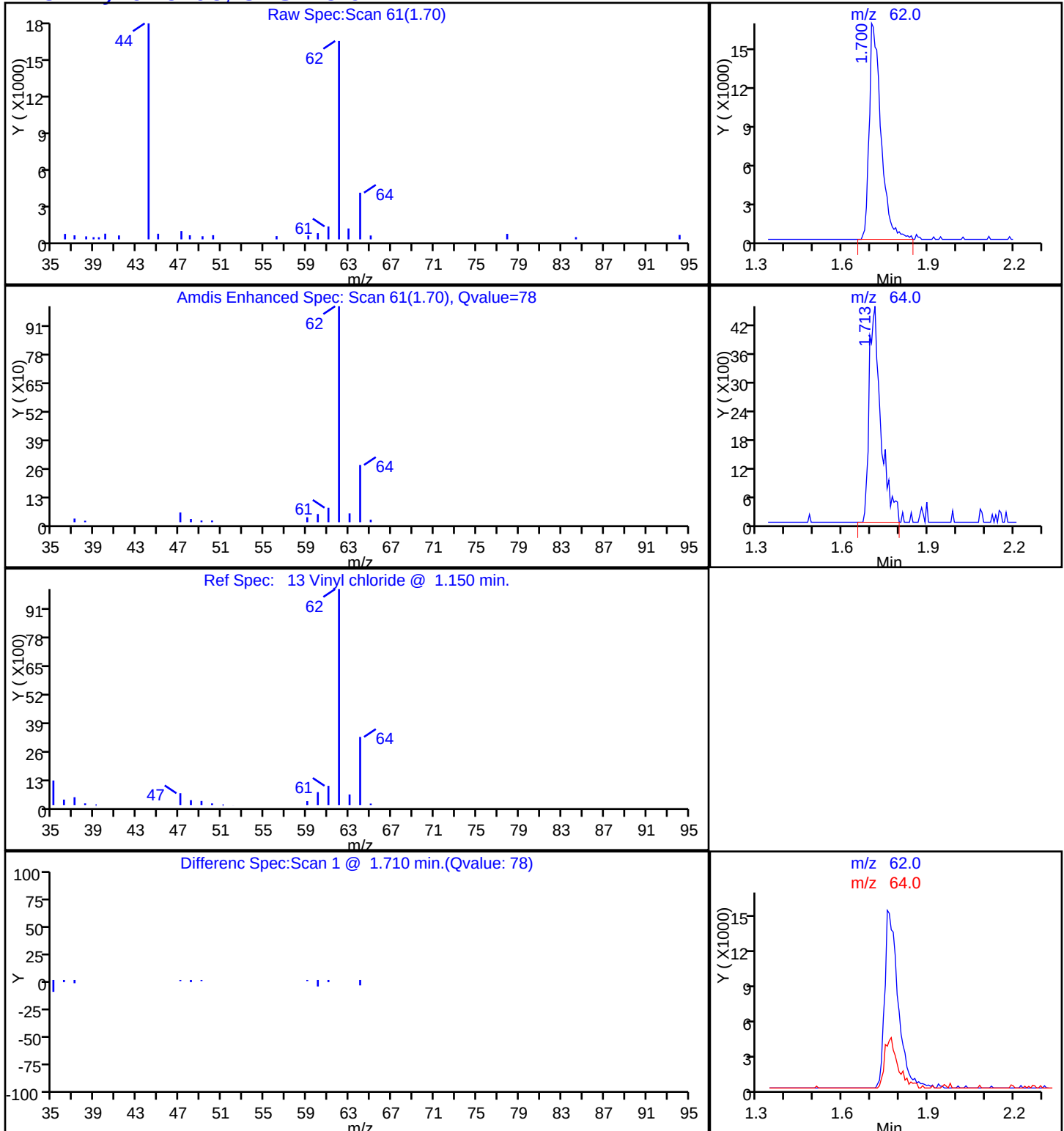
Dil. Factor: 1000.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: MW-8R Lab Sample ID: 480-57666-16

Matrix: Ground Water Lab File ID: G29213.D

Analysis Method: 8260C Date Collected: 04/09/2014 12:30

Sample wt/vol: 5(mL) Date Analyzed: 04/12/2014 17:44

Soil Aliquot Vol: _____ Dilution Factor: 1000

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

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

Analysis Batch No.: 175447 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1000	820
79-34-5	1,1,2,2-Tetrachloroethane	ND		1000	210
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1000	310
79-00-5	1,1,2-Trichloroethane	ND		1000	230
75-34-3	1,1-Dichloroethane	ND		1000	380
75-35-4	1,1-Dichloroethene	380	J	1000	290
120-82-1	1,2,4-Trichlorobenzene	ND		1000	410
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1000	390
106-93-4	1,2-Dibromoethane	ND		1000	730
95-50-1	1,2-Dichlorobenzene	ND		1000	790
107-06-2	1,2-Dichloroethane	ND		1000	210
78-87-5	1,2-Dichloropropane	ND		1000	720
541-73-1	1,3-Dichlorobenzene	ND		1000	780
106-46-7	1,4-Dichlorobenzene	ND		1000	840
78-93-3	2-Butanone (MEK)	ND		10000	1300
591-78-6	2-Hexanone	ND		5000	1200
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5000	2100
67-64-1	Acetone	ND		10000	3000
71-43-2	Benzene	ND		1000	410
75-27-4	Bromodichloromethane	ND		1000	390
75-25-2	Bromoform	ND		1000	260
74-83-9	Bromomethane	ND		1000	690
75-15-0	Carbon disulfide	ND		1000	190
56-23-5	Carbon tetrachloride	ND		1000	270
108-90-7	Chlorobenzene	ND		1000	750
75-00-3	Chloroethane	ND		1000	320
67-66-3	Chloroform	ND		1000	340
74-87-3	Chloromethane	ND		1000	350
156-59-2	cis-1,2-Dichloroethene	56000		1000	810
10061-01-5	cis-1,3-Dichloropropene	ND		1000	360
110-82-7	Cyclohexane	ND		1000	180
124-48-1	Dibromochloromethane	ND		1000	320
75-71-8	Dichlorodifluoromethane	ND		1000	680
100-41-4	Ethylbenzene	ND		1000	740
98-82-8	Isopropylbenzene	ND		1000	790

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1
 SDG No.: _____
 Client Sample ID: MW-8R Lab Sample ID: 480-57666-16
 Matrix: Ground Water Lab File ID: G29213.D
 Analysis Method: 8260C Date Collected: 04/09/2014 12:30
 Sample wt/vol: 5(mL) Date Analyzed: 04/12/2014 17:44
 Soil Aliquot Vol: _____ Dilution Factor: 1000
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 175447 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2500	500
1634-04-4	Methyl tert-butyl ether	ND		1000	160
108-87-2	Methylcyclohexane	ND		1000	160
75-09-2	Methylene Chloride	ND		1000	440
100-42-5	Styrene	ND		1000	730
127-18-4	Tetrachloroethene	ND		1000	360
108-88-3	Toluene	ND		1000	510
156-60-5	trans-1,2-Dichloroethene	ND		1000	900
10061-02-6	trans-1,3-Dichloropropene	ND		1000	370
79-01-6	Trichloroethene	100000		1000	460
75-69-4	Trichlorofluoromethane	ND		1000	880
75-01-4	Vinyl chloride	1900		1000	900
1330-20-7	Xylenes, Total	ND		2000	660

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		66-137
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
2037-26-5	Toluene-d8 (Surr)	97		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29213.D
 Lims ID: 480-57666-A-16 Lab Sample ID: 480-57666-16
 Client ID: MW-8R
 Sample Type: Client
 Inject. Date: 12-Apr-2014 17:44:30 ALS Bottle#: 16 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1000.0000
 Sample Info: 480-57666-A-16
 Misc. Info.: 480-0031029-023 =480-0031029-023
 Operator ID: RAL Instrument ID: HP5973G
 Method: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 14-Apr-2014 00:17:10 Calib Date: 10-Apr-2014 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: goliszekg

Date: 14-Apr-2014 00:17:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.0	98	606689	25.0	
* 2 Chlorobenzene-d5	82	8.620	8.620	0.0	88	255956	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.991	10.985	0.006	98	217490	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.334	5.334	0.0	0	103880	26.3	
\$ 5 Toluene-d8 (Surr)	98	7.132	7.132	0.0	94	577202	24.2	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.864	9.863	0.001	81	141301	24.2	
10 Dichlorodifluoromethane	85		1.450					
12 Chloromethane	50		1.591					
13 Vinyl chloride	62	1.713	1.713	0.0	69	21353	1.86	
14 Bromomethane	94		2.042					
15 Chloroethane	64		2.139					
17 Trichlorofluoromethane	101		2.383					
21 1,1,2-Trichloro-1,2,2-trifluoro	101		2.889					
20 1,1-Dichloroethene	96	2.901	2.901	0.012	72	3159	0.3789	M
22 Acetone	43		2.956					
24 Carbon disulfide	76		3.103					
28 Methyl acetate	43		3.255					
29 Methylene Chloride	84		3.407					
31 Methyl tert-butyl ether	73		3.584					
32 trans-1,2-Dichloroethene	96		3.596					
36 1,1-Dichloroethane	63		4.005					
43 cis-1,2-Dichloroethene	96	4.560	4.560	0.0	74	383570	55.7	
44 2-Butanone (MEK)	43		4.584					
50 Chloroform	85		4.870					
51 1,1,1-Trichloroethane	97		4.999					
52 Cyclohexane	56		5.023					
53 Carbon tetrachloride	117		5.151					
56 Benzene	78		5.352					
57 1,2-Dichloroethane	62		5.401					
61 Trichloroethene	95	5.968	5.968	0.0	93	655465	99.8	
62 Methylcyclohexane	83		6.102					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
63 1,2-Dichloropropane	63		6.193					
67 Dichlorobromomethane	83		6.480					
72 cis-1,3-Dichloropropene	75		6.901					
73 4-Methyl-2-pentanone (MIBK)	43		7.035					
74 Toluene	92		7.199					
76 trans-1,3-Dichloropropene	75		7.461					
79 1,1,2-Trichloroethane	83		7.650					
80 Tetrachloroethene	166		7.742					
82 2-Hexanone	43		7.876					
83 Chlorodibromomethane	129		8.053					
84 Ethylene Dibromide	107		8.156					
86 Chlorobenzene	112		8.650					
89 Ethylbenzene	91		8.742					
90 m-Xylene & p-Xylene	106		8.864					
91 o-Xylene	106		9.290					
92 Styrene	104		9.315					
93 Bromoform	173		9.552					
95 Isopropylbenzene	105		9.674					
98 1,1,2,2-Tetrachloroethane	83		10.040					
110 1,3-Dichlorobenzene	146		10.924					
113 1,4-Dichlorobenzene	146		11.010					
116 1,2-Dichlorobenzene	146		11.357					
117 1,2-Dibromo-3-Chloropropane	75		12.076					
119 1,2,4-Trichlorobenzene	180		12.765					
S 124 Xylenes, Total	1		30.000					

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29213.D

Injection Date: 12-Apr-2014 17:44:30

Instrument ID: HP5973G

Operator ID: RAL

Lims ID: 480-57666-A-16

Lab Sample ID: 480-57666-16

Worklist Smp#: 23

Client ID: MW-8R

Purge Vol: 5.000 mL

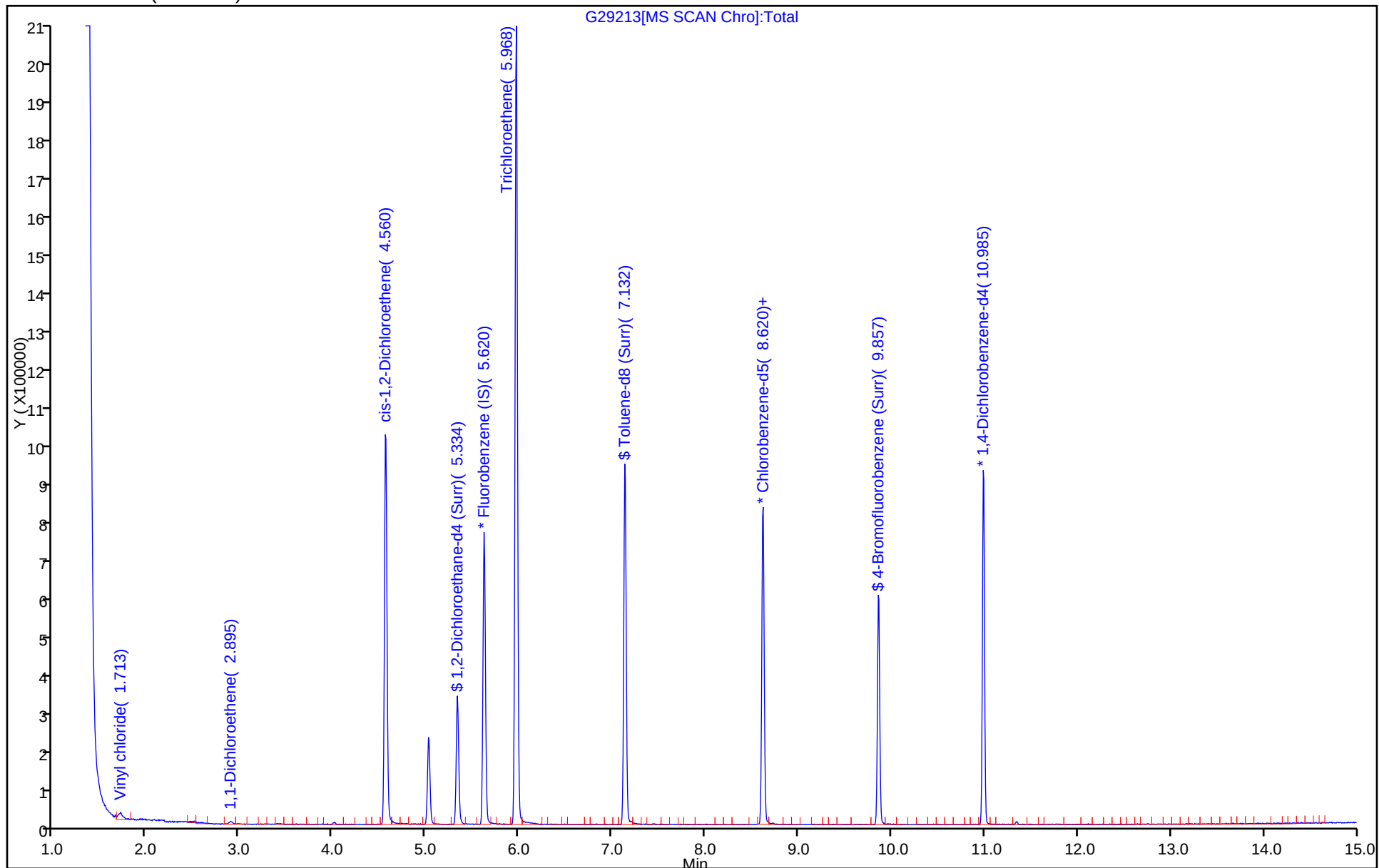
Dil. Factor: 1000.0000

ALS Bottle#: 16

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29213.D

Injection Date: 12-Apr-2014 17:44:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-16

Lab Sample ID: 480-57666-16

Client ID: MW-8R

Operator ID: RAL

ALS Bottle#: 16

Worklist Smp#: 23

Purge Vol: 5.000 mL

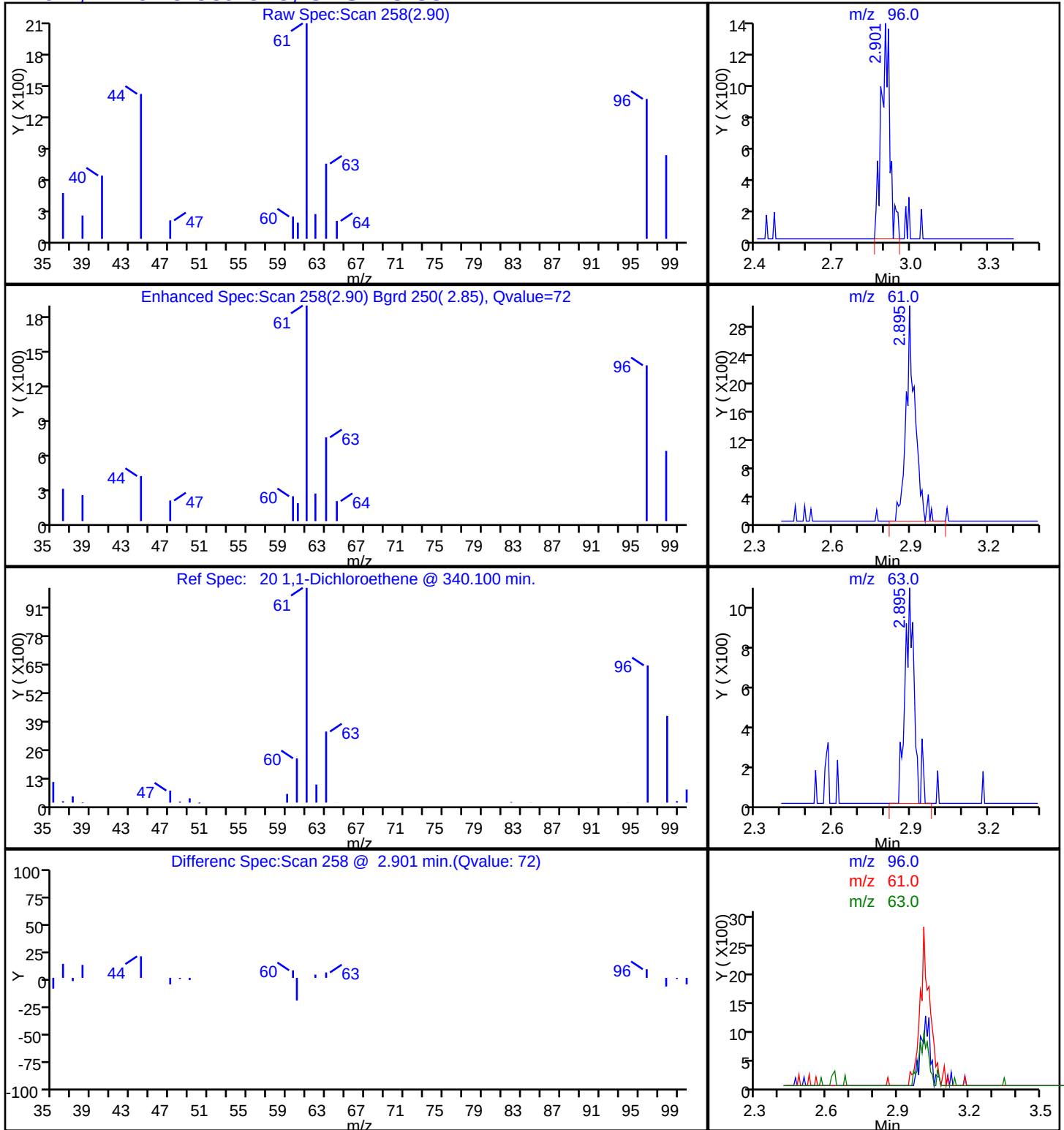
Dil. Factor: 1000.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

20 1,1-Dichloroethene, CAS: 75-35-4

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29213.D

Injection Date: 12-Apr-2014 17:44:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-16

Lab Sample ID: 480-57666-16

Client ID: MW-8R

Operator ID: RAL

ALS Bottle#: 16

Worklist Smp#: 23

Purge Vol: 5.000 mL

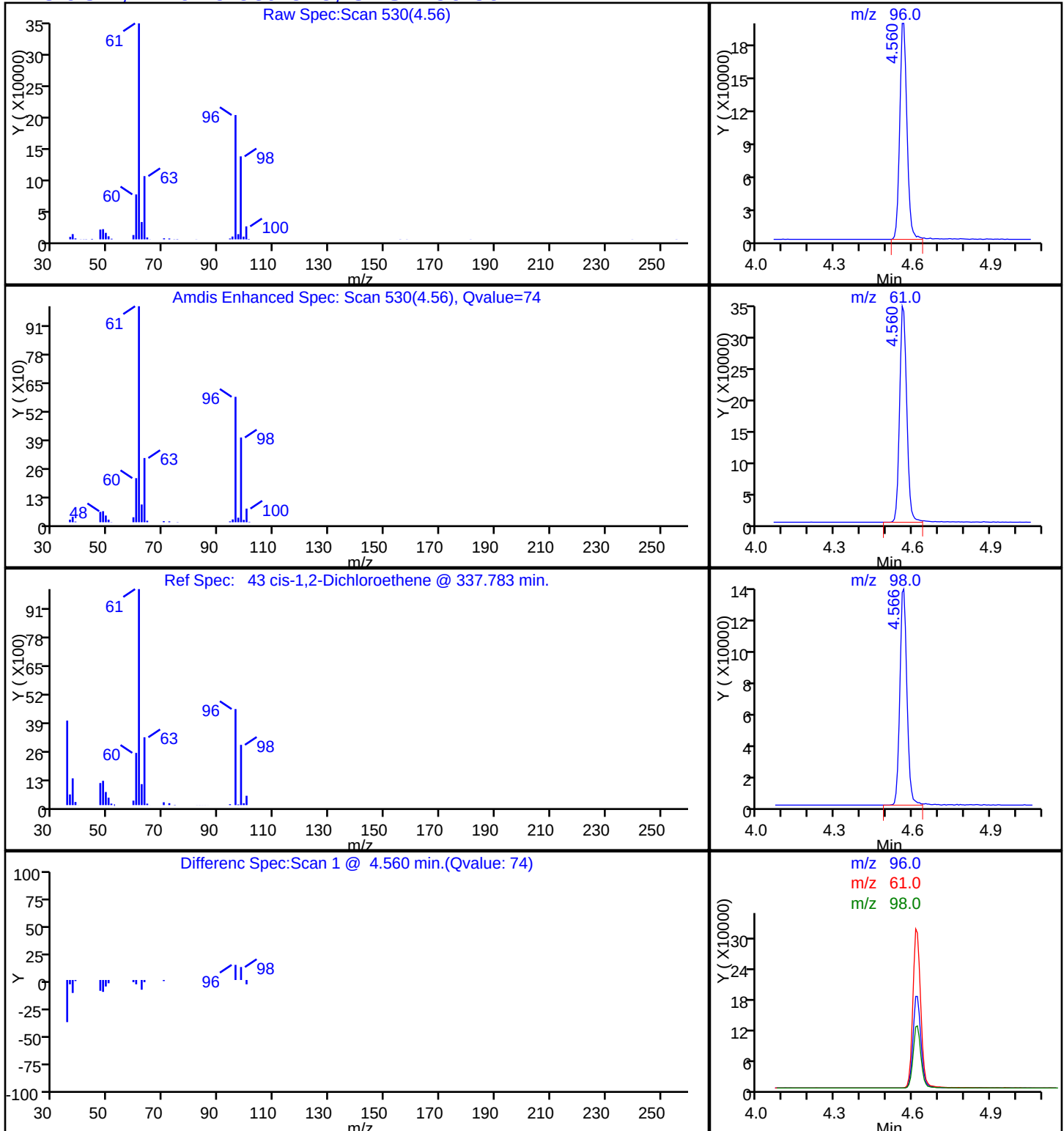
Dil. Factor: 1000.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29213.D

Injection Date: 12-Apr-2014 17:44:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-16

Lab Sample ID: 480-57666-16

Client ID: MW-8R

Operator ID: RAL

ALS Bottle#: 16

Worklist Smp#: 23

Purge Vol: 5.000 mL

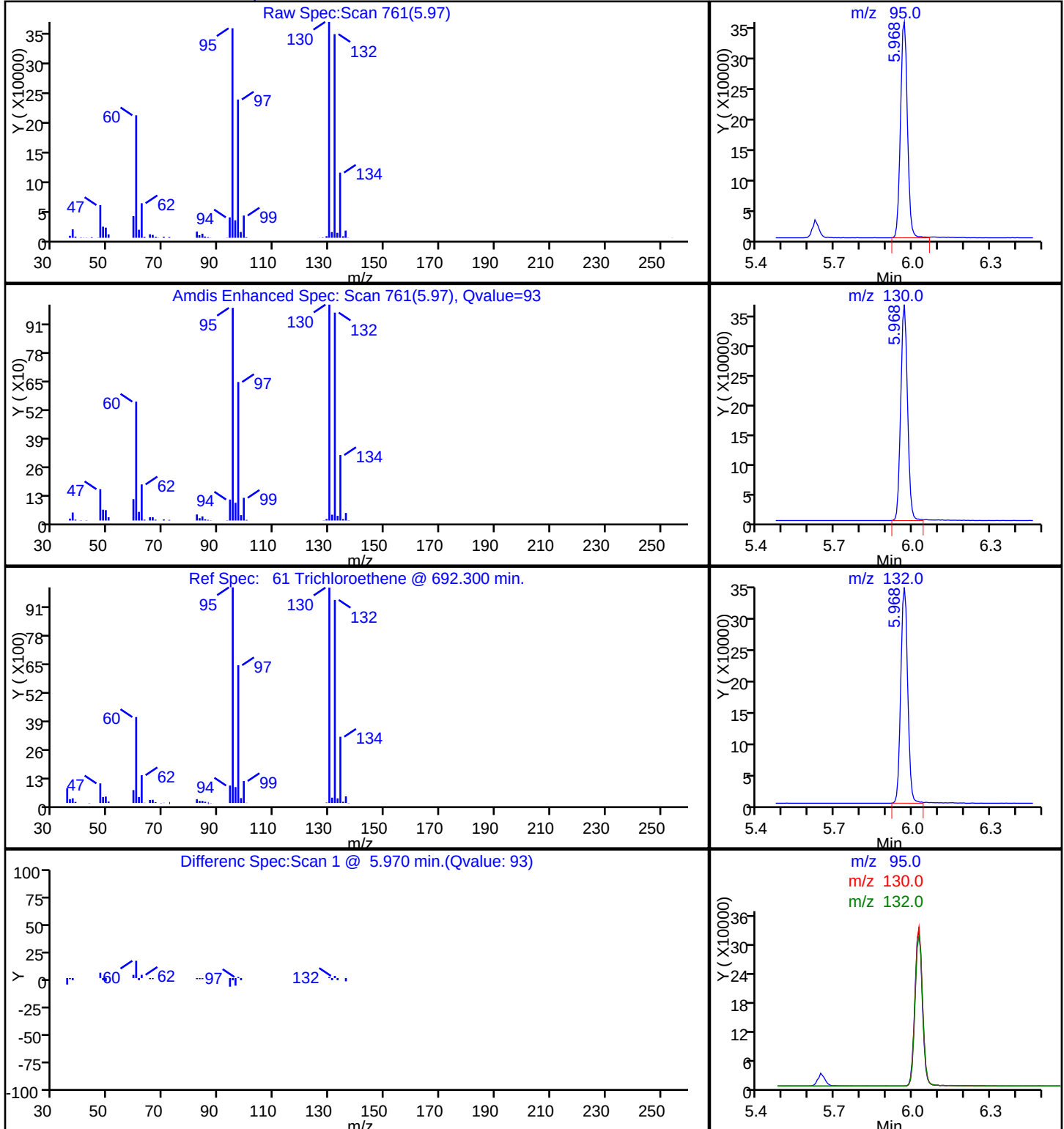
Dil. Factor: 1000.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

61 Trichloroethene, CAS: 79-01-6

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29213.D

Injection Date: 12-Apr-2014 17:44:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-16

Lab Sample ID: 480-57666-16

Client ID: MW-8R

Operator ID: RAL

ALS Bottle#: 16

Worklist Smp#: 23

Purge Vol: 5.000 mL

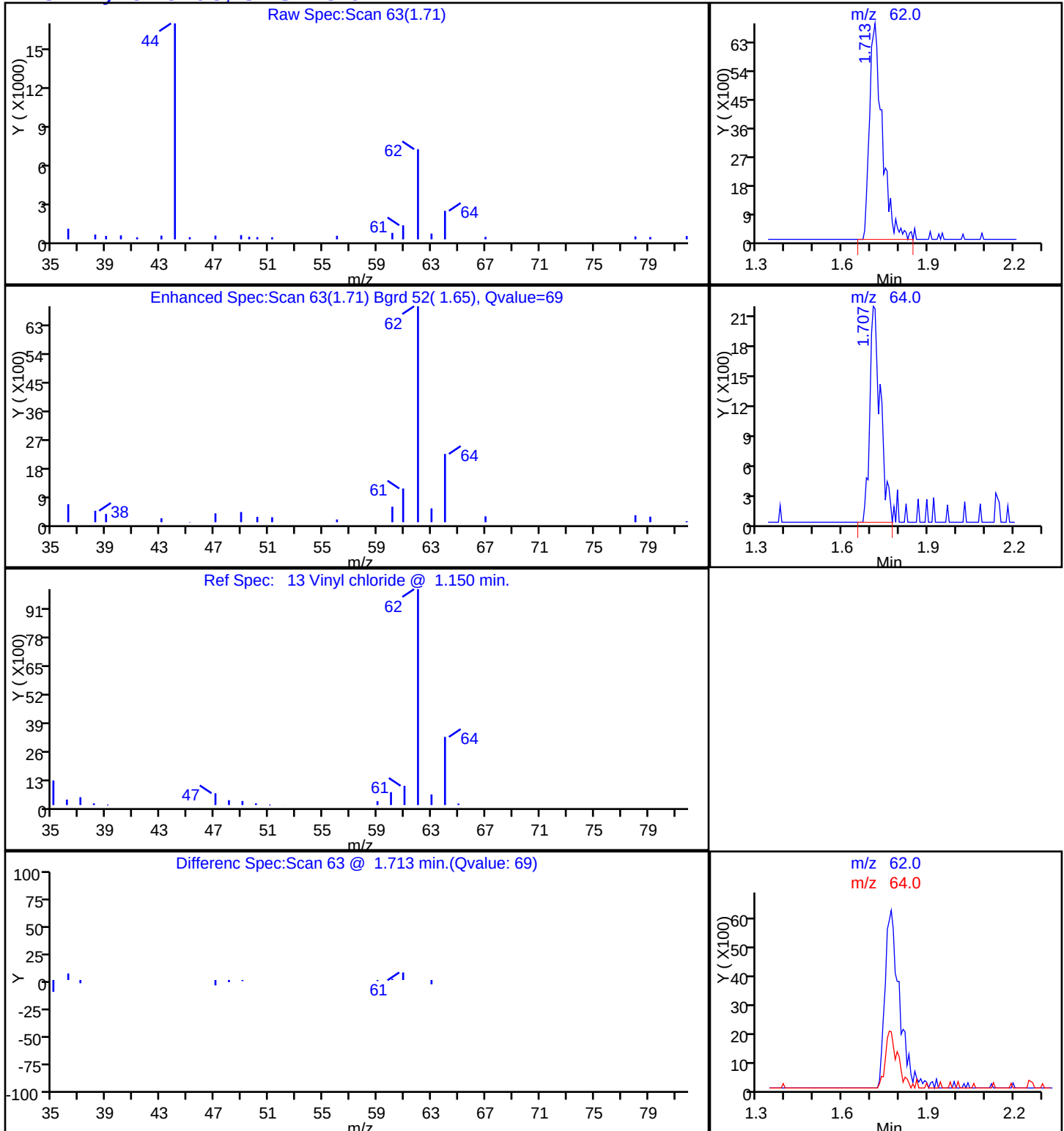
Dil. Factor: 1000.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4

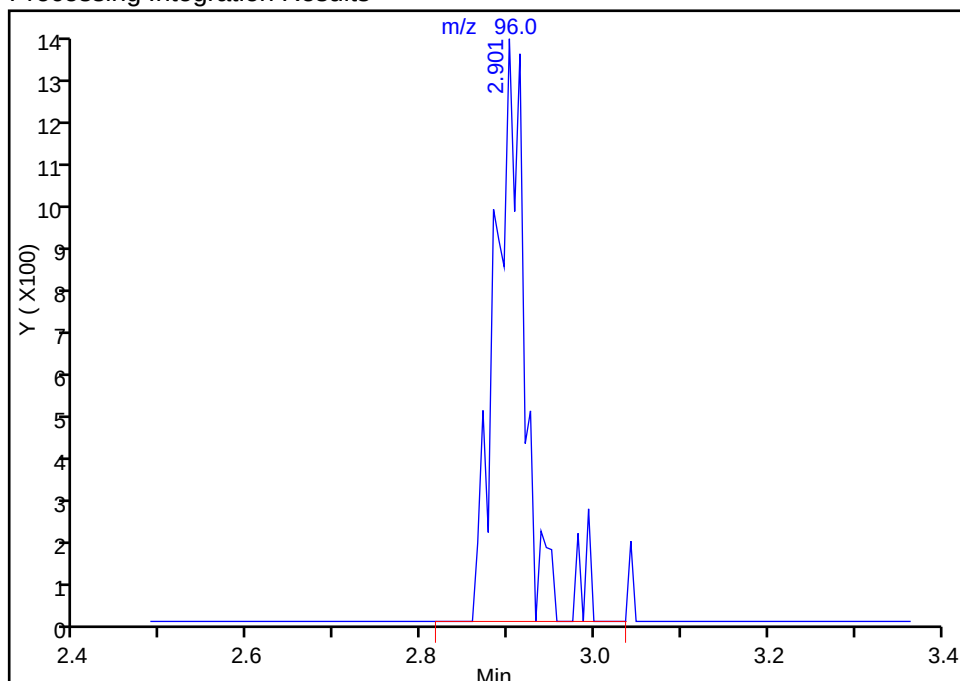
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29213.D		
Injection Date:	12-Apr-2014 17:44:30	Instrument ID:	HP5973G
Lims ID:	480-57666-A-16	Lab Sample ID:	480-57666-16
Client ID:	MW-8R		
Operator ID:	RAL	ALS Bottle#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1000.0000
Method:	G-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector:	MS SCAN
		Worklist Smp#:	23

20 1,1-Dichloroethene, CAS: 75-35-4

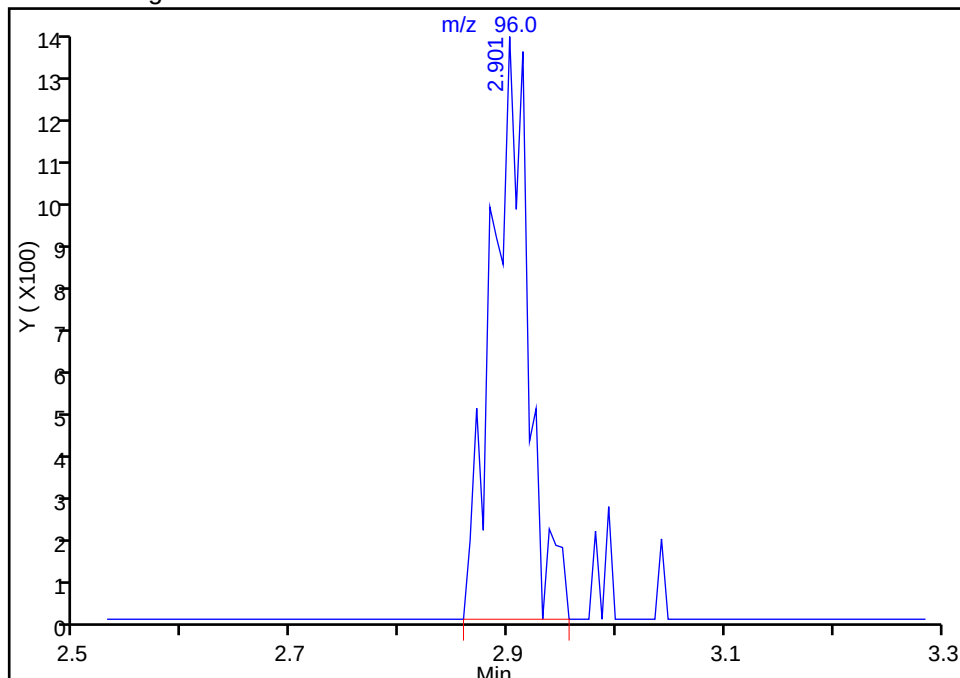
RT: 2.90
Response: 3331
Amount: 0.399560

Processing Integration Results



RT: 2.90
Response: 3159
Amount: 0.378928

Manual Integration Results



Reviewer: goliszekg, 14-Apr-2014 00:17:10
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: MW-15S Lab Sample ID: 480-57666-17

Matrix: Ground Water Lab File ID: G29214.D

Analysis Method: 8260C Date Collected: 04/10/2014 10:50

Sample wt/vol: 5(mL) Date Analyzed: 04/12/2014 18:06

Soil Aliquot Vol: _____ Dilution Factor: 20

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

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

Analysis Batch No.: 175447 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		20	16
79-34-5	1,1,2,2-Tetrachloroethane	ND		20	4.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	6.2
79-00-5	1,1,2-Trichloroethane	ND		20	4.6
75-34-3	1,1-Dichloroethane	730		20	7.6
75-35-4	1,1-Dichloroethene	15	J	20	5.8
120-82-1	1,2,4-Trichlorobenzene	ND		20	8.2
96-12-8	1,2-Dibromo-3-Chloropropane	ND		20	7.8
106-93-4	1,2-Dibromoethane	ND		20	15
95-50-1	1,2-Dichlorobenzene	ND		20	16
107-06-2	1,2-Dichloroethane	ND		20	4.2
78-87-5	1,2-Dichloropropane	ND		20	14
541-73-1	1,3-Dichlorobenzene	ND		20	16
106-46-7	1,4-Dichlorobenzene	ND		20	17
78-93-3	2-Butanone (MEK)	290		200	26
591-78-6	2-Hexanone	ND		100	25
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		100	42
67-64-1	Acetone	1400		200	60
71-43-2	Benzene	ND		20	8.2
75-27-4	Bromodichloromethane	ND		20	7.8
75-25-2	Bromoform	ND		20	5.2
74-83-9	Bromomethane	ND		20	14
75-15-0	Carbon disulfide	ND		20	3.8
56-23-5	Carbon tetrachloride	ND		20	5.4
108-90-7	Chlorobenzene	ND		20	15
75-00-3	Chloroethane	250		20	6.4
67-66-3	Chloroform	ND		20	6.8
74-87-3	Chloromethane	ND		20	7.0
156-59-2	cis-1,2-Dichloroethene	1000		20	16
10061-01-5	cis-1,3-Dichloropropene	ND		20	7.2
110-82-7	Cyclohexane	ND		20	3.6
124-48-1	Dibromochloromethane	ND		20	6.4
75-71-8	Dichlorodifluoromethane	ND		20	14
100-41-4	Ethylbenzene	ND		20	15
98-82-8	Isopropylbenzene	ND		20	16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: MW-15S Lab Sample ID: 480-57666-17

Matrix: Ground Water Lab File ID: G29214.D

Analysis Method: 8260C Date Collected: 04/10/2014 10:50

Sample wt/vol: 5(mL) Date Analyzed: 04/12/2014 18:06

Soil Aliquot Vol: _____ Dilution Factor: 20

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

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

Analysis Batch No.: 175447 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		50	10
1634-04-4	Methyl tert-butyl ether	ND		20	3.2
108-87-2	Methylcyclohexane	ND		20	3.2
75-09-2	Methylene Chloride	ND		20	8.8
100-42-5	Styrene	ND		20	15
127-18-4	Tetrachloroethene	ND		20	7.2
108-88-3	Toluene	150		20	10
156-60-5	trans-1,2-Dichloroethene	ND		20	18
10061-02-6	trans-1,3-Dichloropropene	ND		20	7.4
79-01-6	Trichloroethene	160		20	9.2
75-69-4	Trichlorofluoromethane	ND		20	18
75-01-4	Vinyl chloride	350		20	18
1330-20-7	Xylenes, Total	24	J	40	13

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		66-137
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
2037-26-5	Toluene-d8 (Surr)	100		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29214.D
 Lims ID: 480-57666-A-17 Lab Sample ID: 480-57666-17
 Client ID: MW-15S
 Sample Type: Client
 Inject. Date: 12-Apr-2014 18:06:30 ALS Bottle#: 17 Worklist Smp#: 24
 Purge Vol: 5.000 mL Dil. Factor: 20.0000
 Sample Info: 480-57666-A-17
 Misc. Info.: 480-0031029-024 =480-0031029-024
 Operator ID: RAL Instrument ID: HP5973G
 Method: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 14-Apr-2014 00:18:19 Calib Date: 10-Apr-2014 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: goliszekg

Date: 14-Apr-2014 00:18:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.0	98	619389	25.0	
* 2 Chlorobenzene-d5	82	8.620	8.620	0.0	88	256599	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.985	10.985	0.0	98	224714	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.334	5.334	0.0	0	105225	26.1	
\$ 5 Toluene-d8 (Surr)	98	7.132	7.132	0.0	94	594015	24.9	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.863	9.863	0.0	81	144211	24.6	
10 Dichlorodifluoromethane	85		1.450					
12 Chloromethane	50		1.591					
13 Vinyl chloride	62	1.706	1.713	-0.007	84	208067	17.7	
14 Bromomethane	94		2.042					
15 Chloroethane	64	2.151	2.139	0.012	96	77494	12.4	
17 Trichlorofluoromethane	101		2.383					
21 1,1,2-Trichloro-1,2,2-trifluoro	101		2.889					
20 1,1-Dichloroethene	96	2.901	2.901	0.012	80	6373	0.7488	M
22 Acetone	43	2.956	2.956	0.0	99	277083	71.6	
24 Carbon disulfide	76		3.103					
28 Methyl acetate	43		3.255					
29 Methylene Chloride	84	3.419	3.419	0.012	61	1804	0.1902	M
31 Methyl tert-butyl ether	73		3.584					
32 trans-1,2-Dichloroethene	96	3.602	3.596	0.006	53	1844	0.2620	
36 1,1-Dichloroethane	63	4.011	4.005	0.006	85	507127	36.6	
43 cis-1,2-Dichloroethene	96	4.559	4.560	-0.001	74	357271	50.8	
44 2-Butanone (MEK)	43	4.596	4.584	0.012	97	97000	14.7	
50 Chloroform	85		4.870					
51 1,1,1-Trichloroethane	97		4.999					
52 Cyclohexane	56		5.023					
53 Carbon tetrachloride	117		5.151					
56 Benzene	78	5.352	5.352	0.0	56	4914	0.1845	
57 1,2-Dichloroethane	62		5.401					
61 Trichloroethene	95	5.962	5.968	-0.006	92	52960	7.90	
62 Methylcyclohexane	83		6.102					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
63 1,2-Dichloropropane	63		6.193					
67 Dichlorobromomethane	83		6.480					
72 cis-1,3-Dichloropropene	75		6.901					
73 4-Methyl-2-pentanone (MIBK)	43	7.047	7.035	0.012	84	13938	1.09	
74 Toluene	92	7.199	7.199	0.0	98	127102	7.29	
76 trans-1,3-Dichloropropene	75		7.461					
79 1,1,2-Trichloroethane	83		7.650					
80 Tetrachloroethene	166		7.742					
82 2-Hexanone	43		7.876					
83 Chlorodibromomethane	129		8.053					
84 Ethylene Dibromide	107		8.156					
86 Chlorobenzene	112		8.650					
89 Ethylbenzene	91	8.742	8.742	0.0	87	11825	0.3687	
90 m-Xylene & p-Xylene	106	8.863	8.864	-0.001	0	15062	1.19	
91 o-Xylene	106	9.290	9.290	0.0	94	8611	0.7174	
92 Styrene	104		9.315					
93 Bromoform	173		9.552					
95 Isopropylbenzene	105		9.674					
98 1,1,2,2-Tetrachloroethane	83		10.040					
110 1,3-Dichlorobenzene	146		10.924					
113 1,4-Dichlorobenzene	146		11.010					
116 1,2-Dichlorobenzene	146		11.357					
117 1,2-Dibromo-3-Chloropropane	75		12.076					
119 1,2,4-Trichlorobenzene	180		12.765					
S 124 Xylenes, Total	1				0		1.91	

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29214.D

Injection Date: 12-Apr-2014 18:06:30

Instrument ID: HP5973G

Operator ID: RAL

Lims ID: 480-57666-A-17

Lab Sample ID: 480-57666-17

Worklist Smp#: 24

Client ID: MW-15S

Purge Vol: 5.000 mL

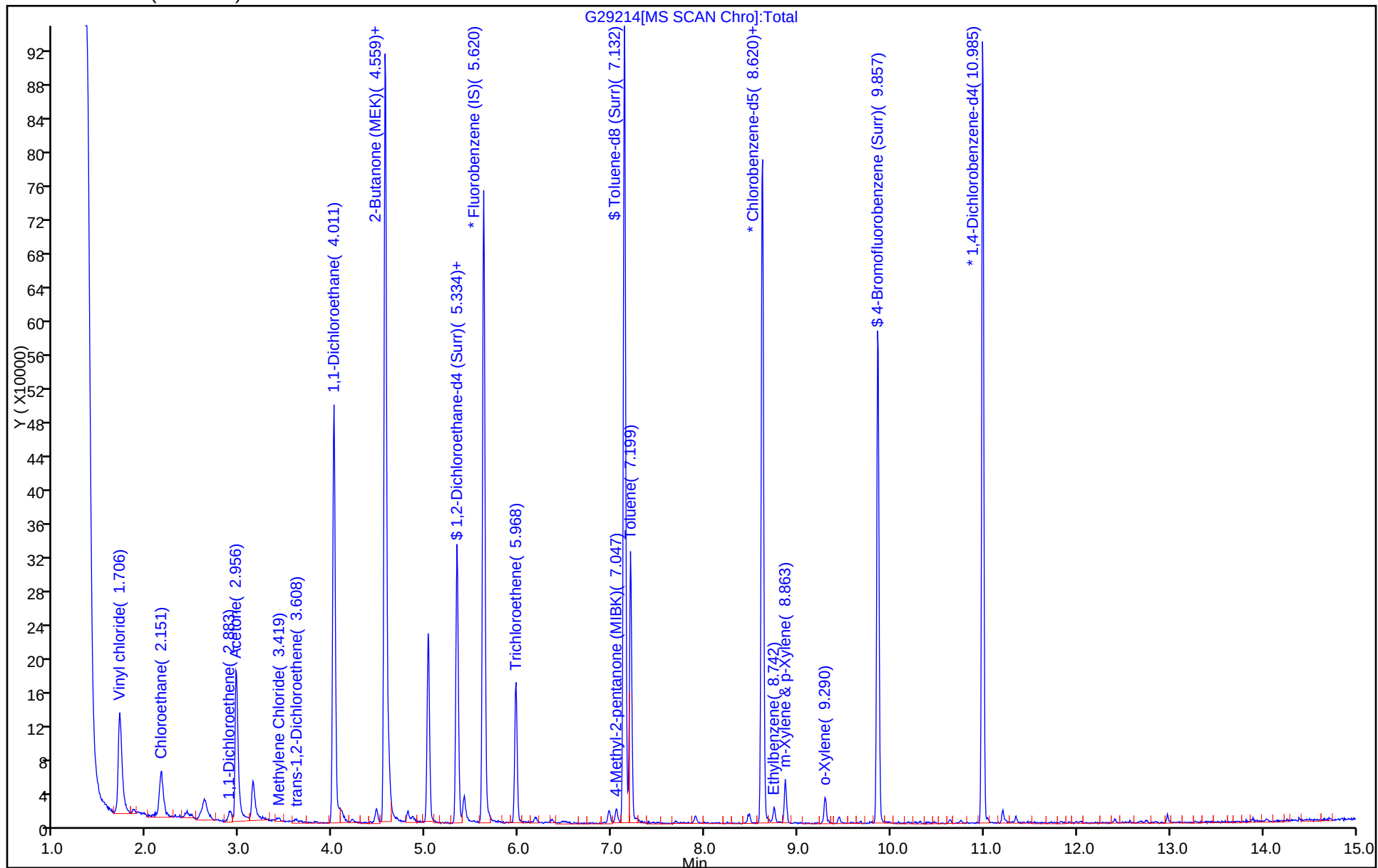
Dil. Factor: 20.0000

ALS Bottle#: 17

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29214.D

Injection Date: 12-Apr-2014 18:06:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-17

Lab Sample ID: 480-57666-17

Client ID: MW-15S

Operator ID: RAL

ALS Bottle#: 17

Worklist Smp#: 24

Purge Vol: 5.000 mL

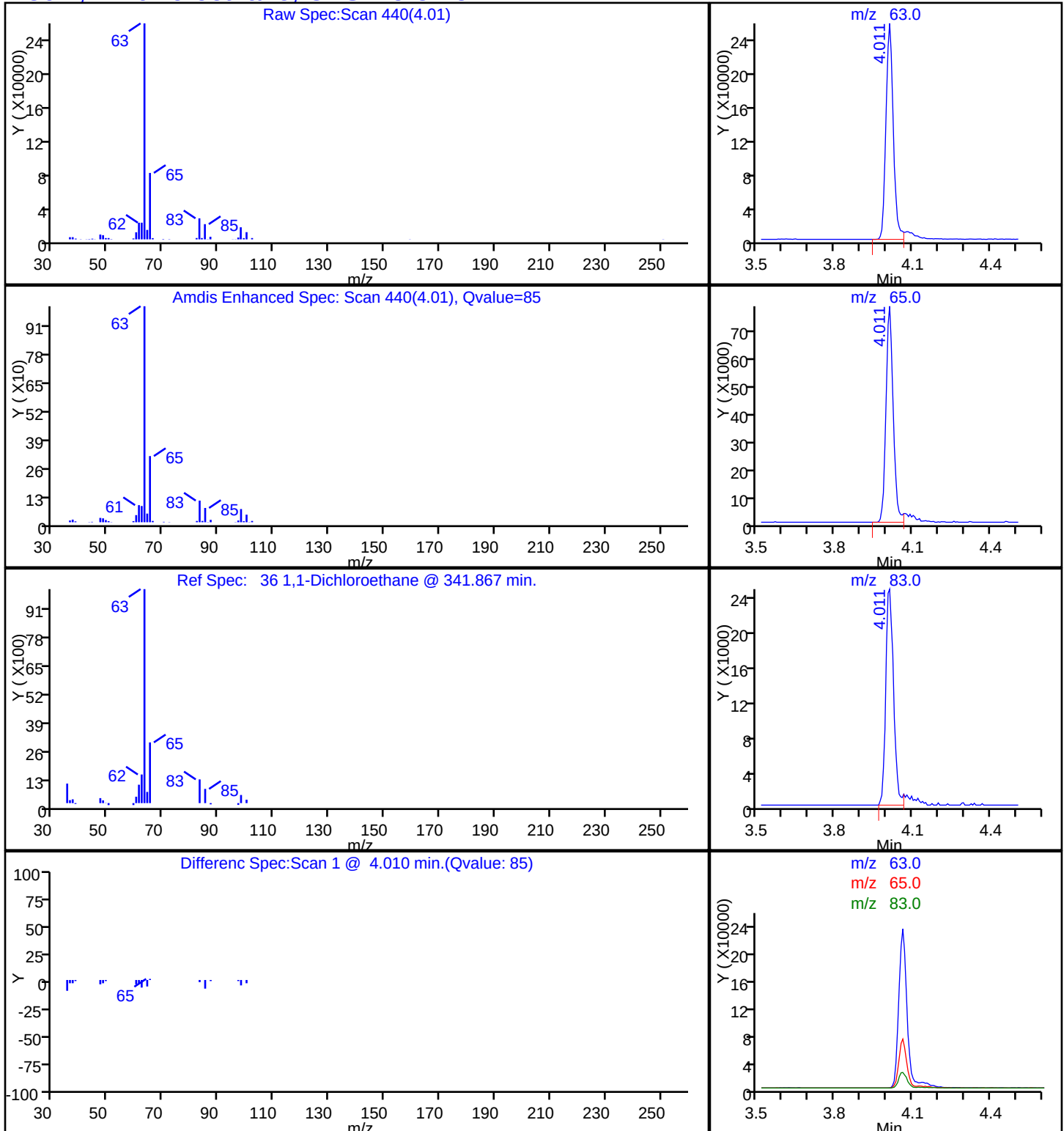
Dil. Factor: 20.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29214.D

Injection Date: 12-Apr-2014 18:06:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-17

Lab Sample ID: 480-57666-17

Client ID: MW-15S

Operator ID: RAL

ALS Bottle#: 17

Worklist Smp#: 24

Purge Vol: 5.000 mL

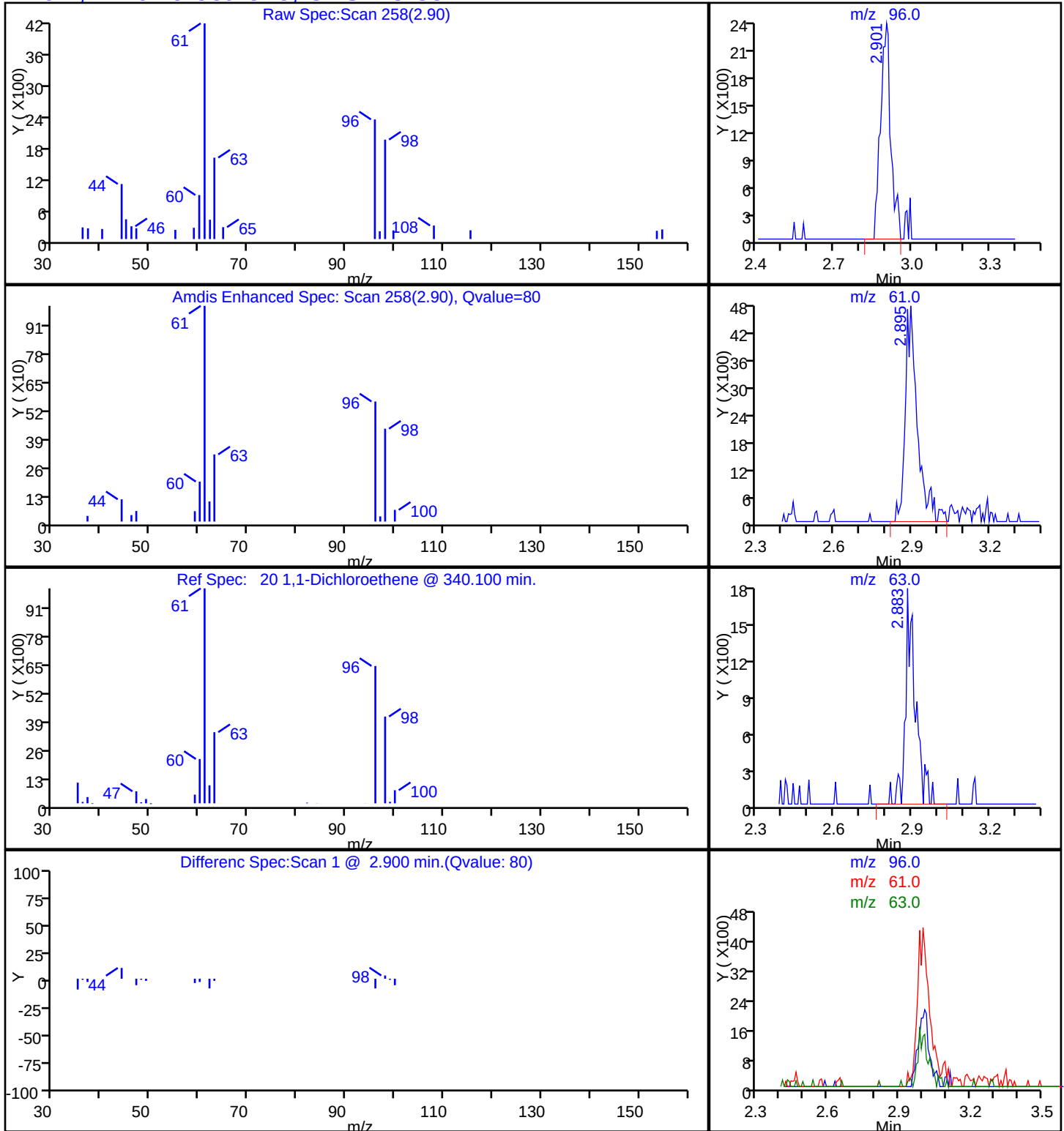
Dil. Factor: 20.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

20 1,1-Dichloroethene, CAS: 75-35-4

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29214.D

Injection Date: 12-Apr-2014 18:06:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-17

Lab Sample ID: 480-57666-17

Client ID: MW-15S

Operator ID: RAL

ALS Bottle#: 17

Worklist Smp#: 24

Purge Vol: 5.000 mL

Dil. Factor: 20.0000

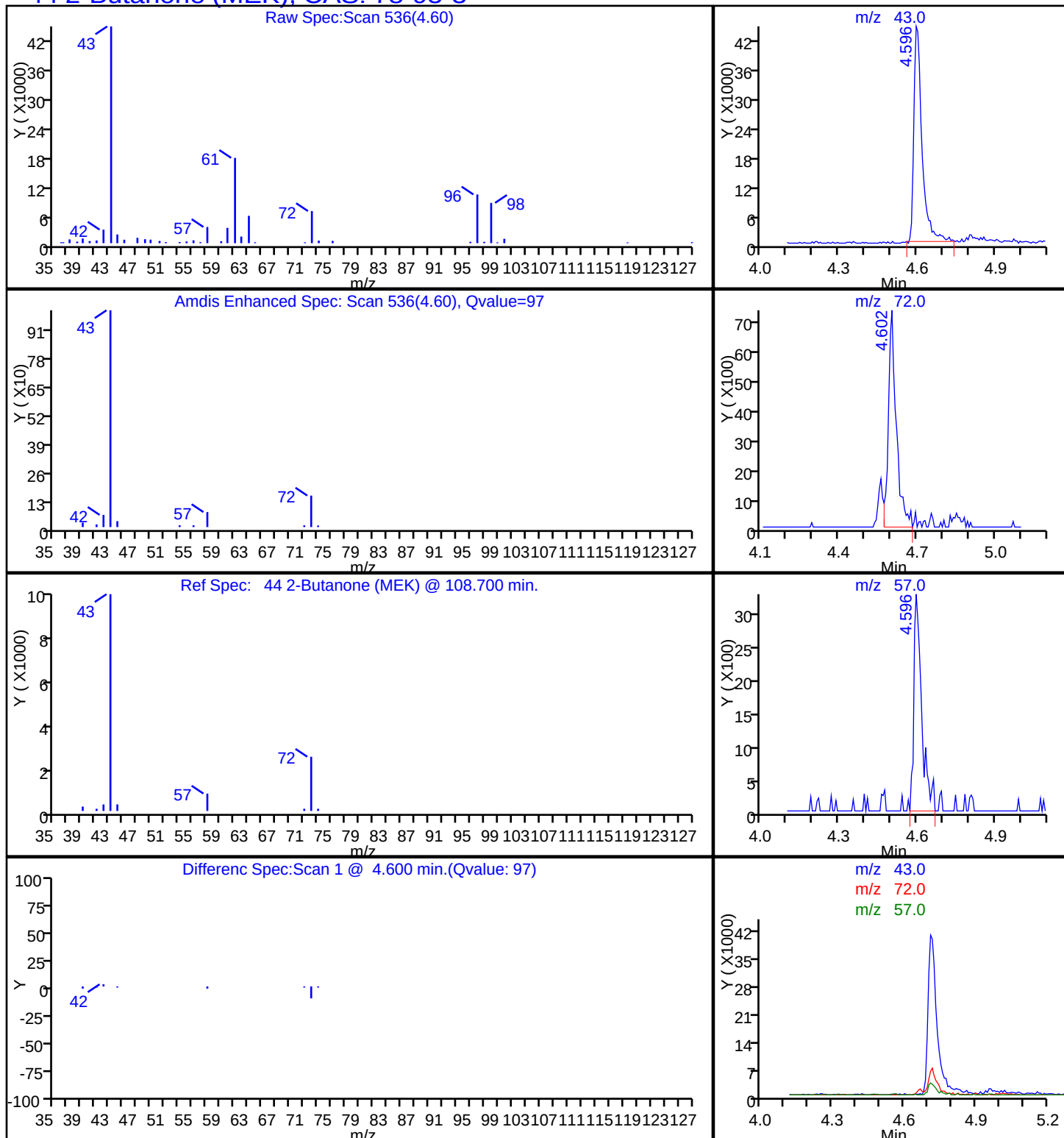
Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

44 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Buffalo

Data File: \\Bufchrom\\ChromData\\HP5973G\\20140412-31029.b\\G29214.D

Injection Date: 12-Apr-2014 18:06:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-17

Lab Sample ID: 480-57666-17

Client ID: MW-15S

Operator ID: RAL

ALS Bottle#: 17

Worklist Smp#: 24

Purge Vol: 5.000 mL

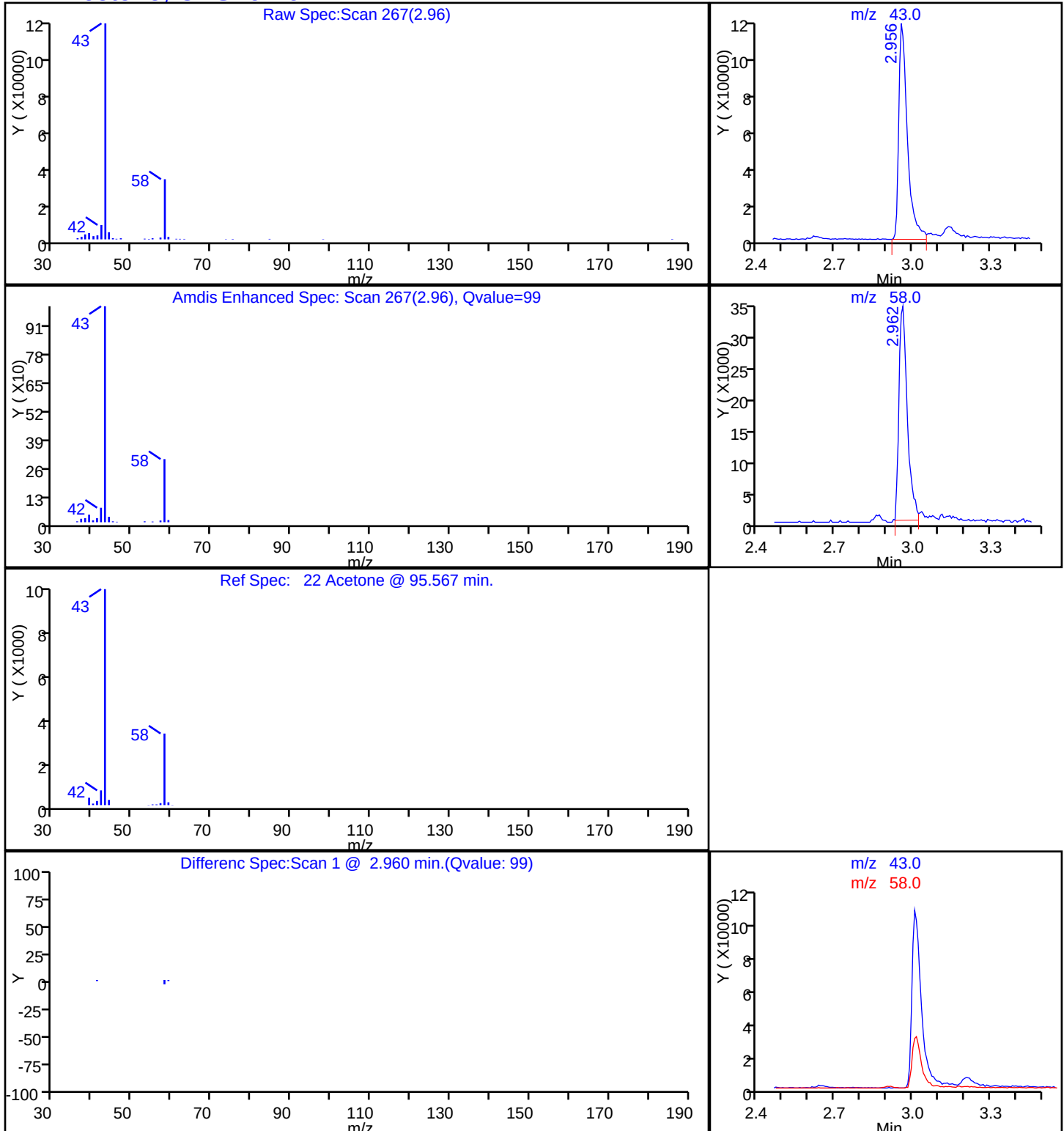
Dil. Factor: 20.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

22 Acetone, CAS: 67-64-1

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29214.D

Injection Date: 12-Apr-2014 18:06:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-17

Lab Sample ID: 480-57666-17

Client ID: MW-15S

Operator ID: RAL

ALS Bottle#: 17

Worklist Smp#: 24

Purge Vol: 5.000 mL

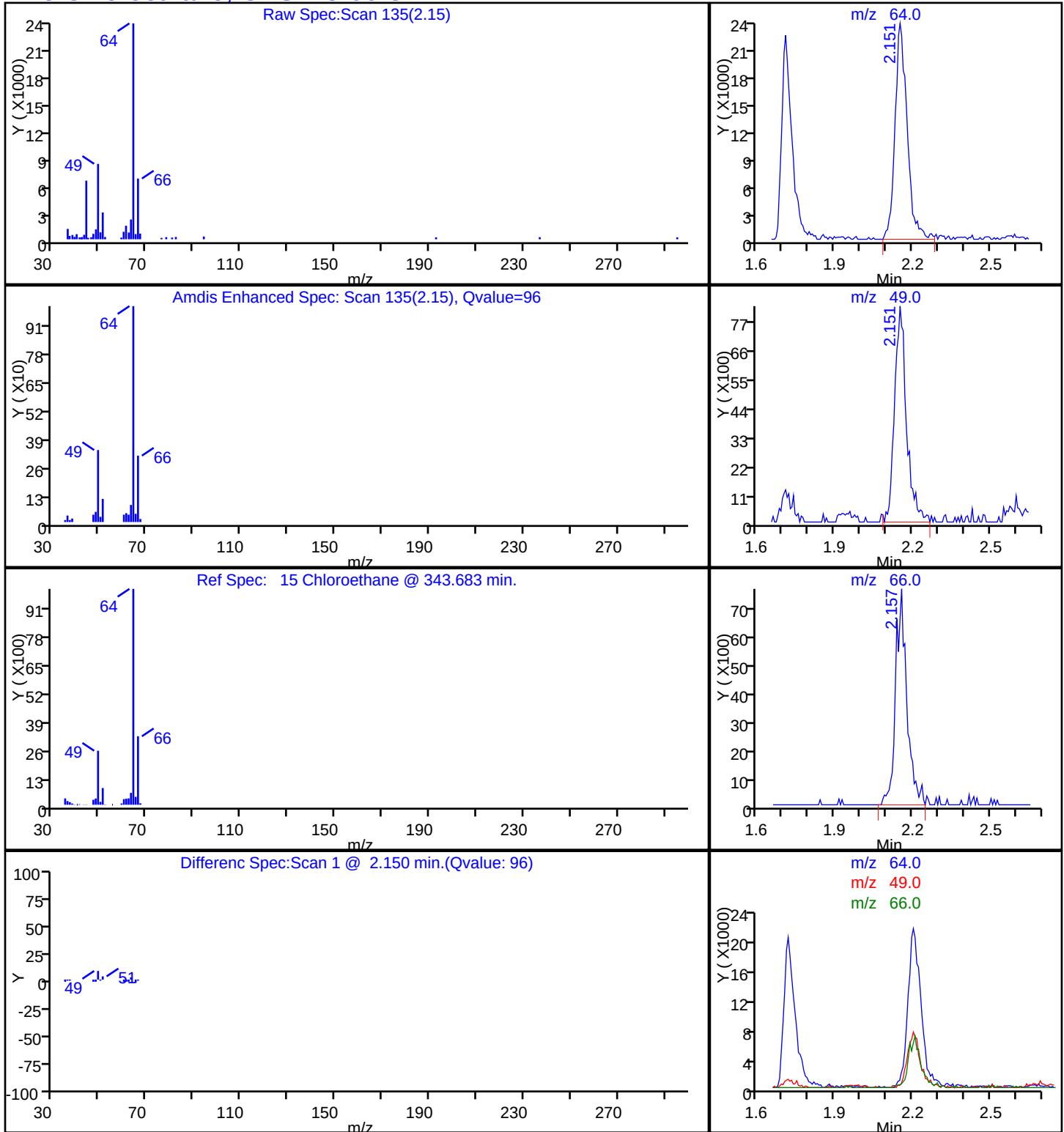
Dil. Factor: 20.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29214.D

Injection Date: 12-Apr-2014 18:06:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-17

Lab Sample ID: 480-57666-17

Client ID: MW-15S

Operator ID: RAL

ALS Bottle#: 17

Worklist Smp#: 24

Purge Vol: 5.000 mL

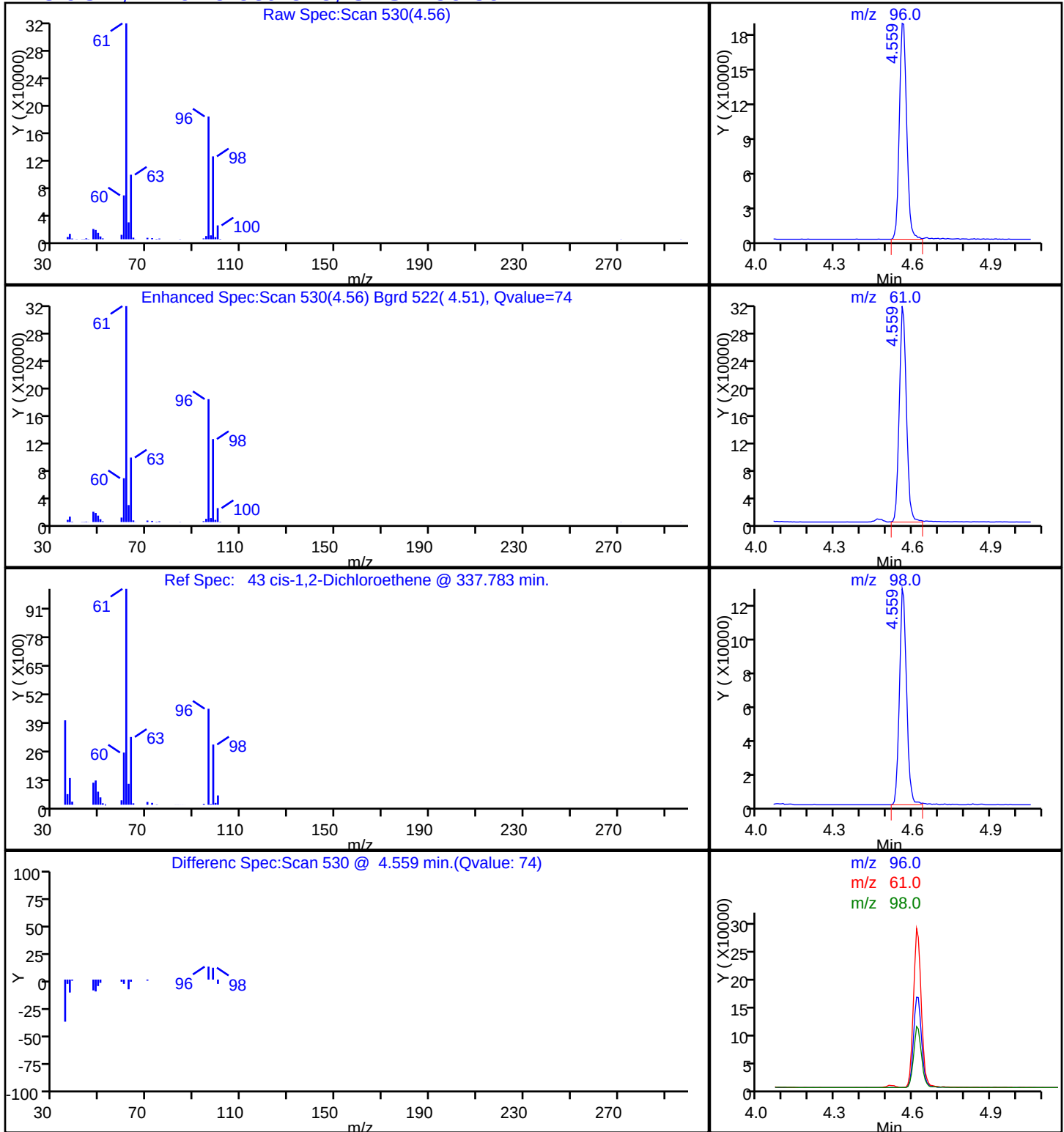
Dil. Factor: 20.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29214.D

Injection Date: 12-Apr-2014 18:06:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-17

Lab Sample ID: 480-57666-17

Client ID: MW-15S

Operator ID: RAL

ALS Bottle#: 17

Worklist Smp#: 24

Purge Vol: 5.000 mL

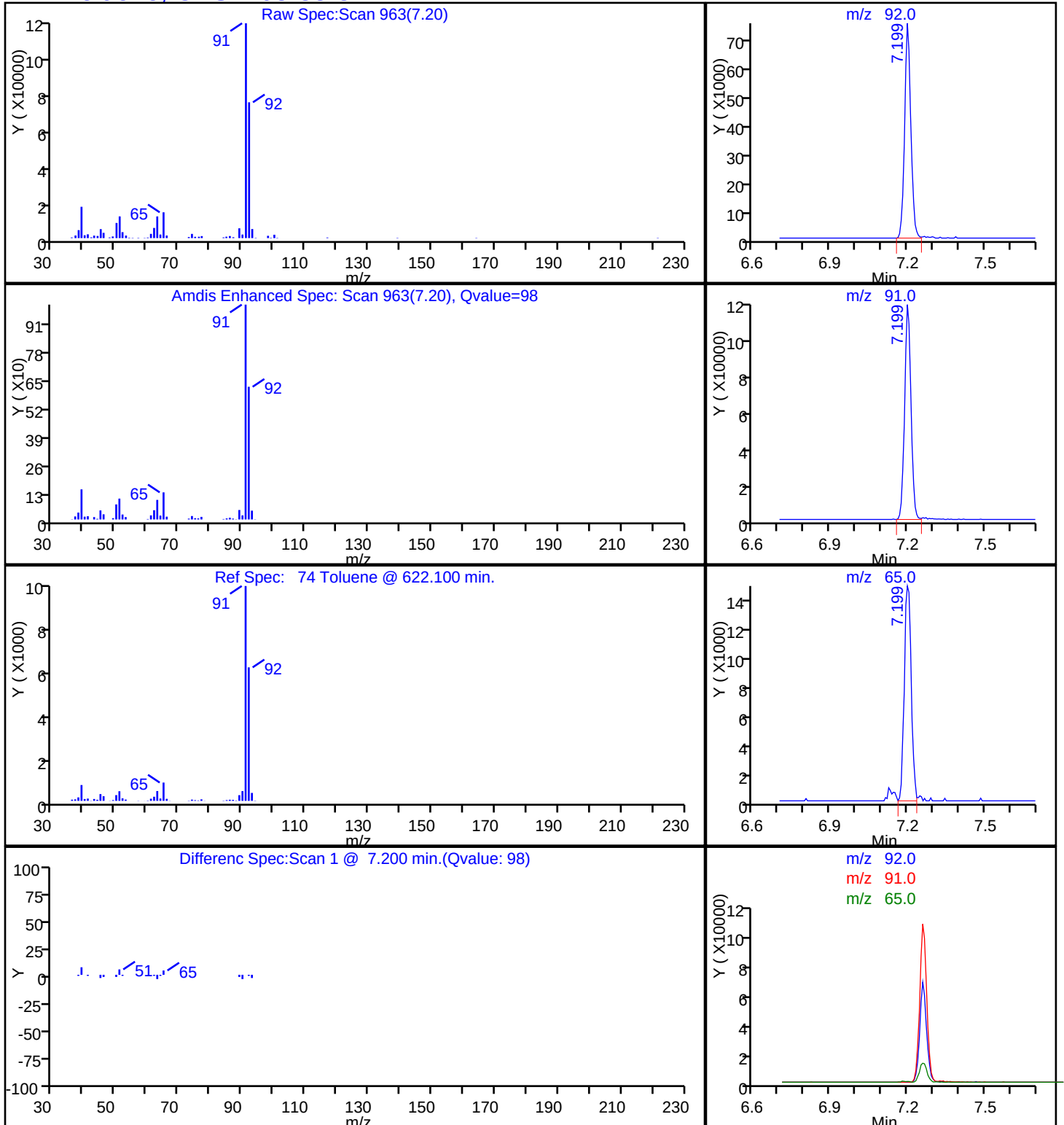
Dil. Factor: 20.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector MS SCAN

74 Toluene, CAS: 108-88-3

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29214.D

Injection Date: 12-Apr-2014 18:06:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-17

Lab Sample ID: 480-57666-17

Client ID: MW-15S

Operator ID: RAL

ALS Bottle#: 17

Worklist Smp#: 24

Purge Vol: 5.000 mL

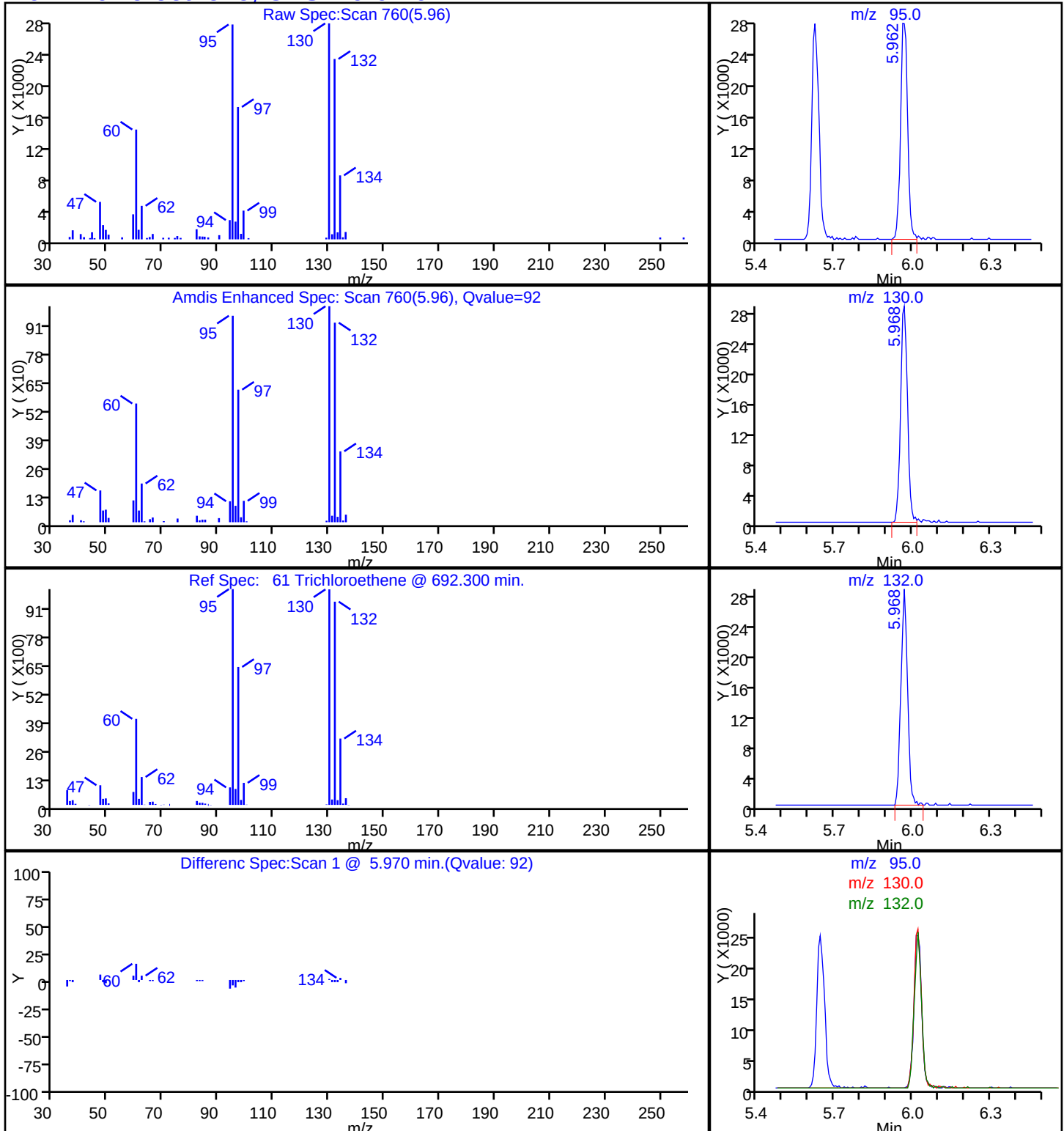
Dil. Factor: 20.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

61 Trichloroethene, CAS: 79-01-6

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29214.D

Injection Date: 12-Apr-2014 18:06:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-17

Lab Sample ID: 480-57666-17

Client ID: MW-15S

Operator ID: RAL

ALS Bottle#: 17

Worklist Smp#: 24

Purge Vol: 5.000 mL

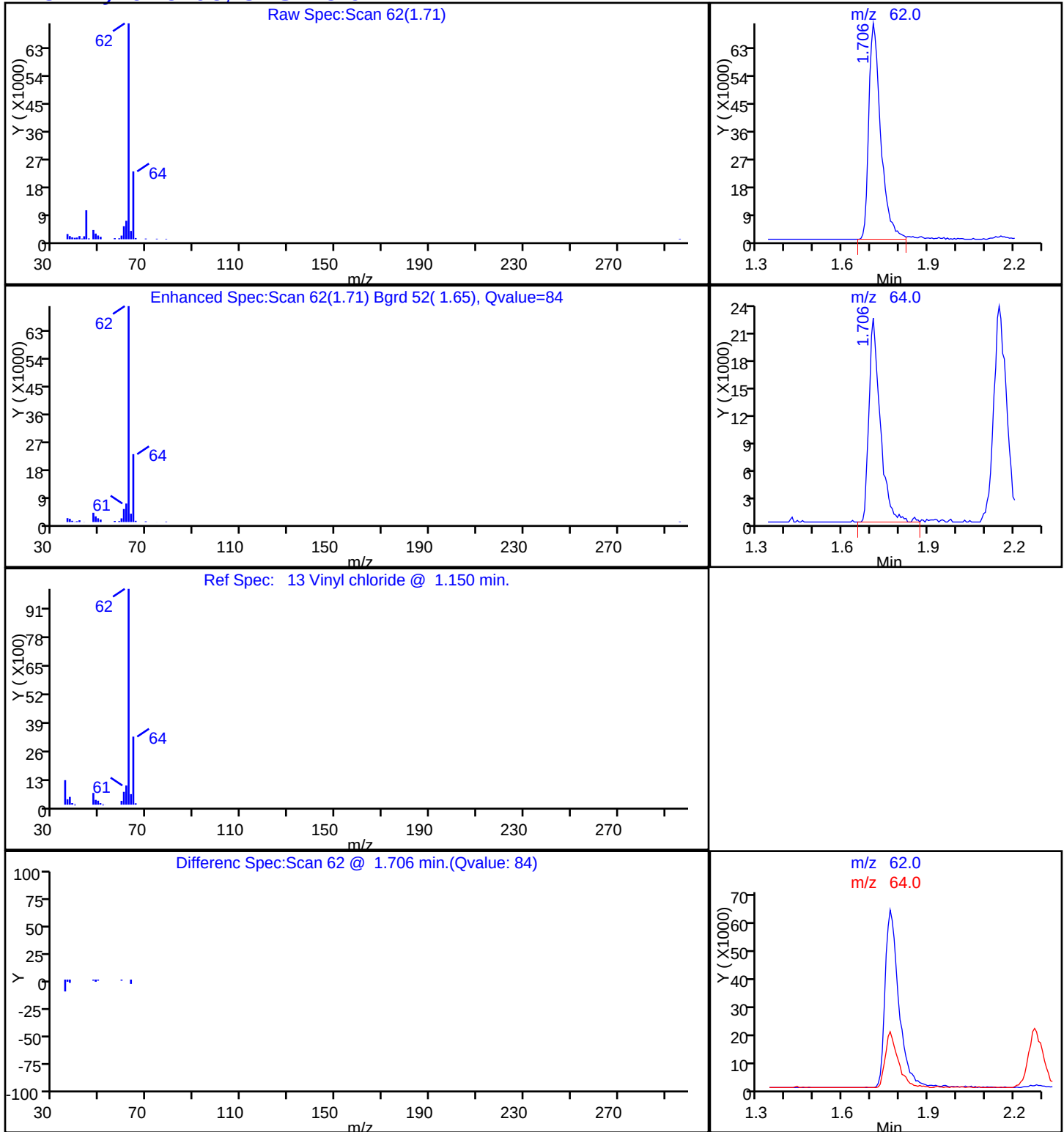
Dil. Factor: 20.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29214.D

Injection Date: 12-Apr-2014 18:06:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-17

Lab Sample ID: 480-57666-17

Client ID: MW-15S

Operator ID: RAL

ALS Bottle#: 17

Worklist Smp#: 24

Purge Vol: 5.000 mL

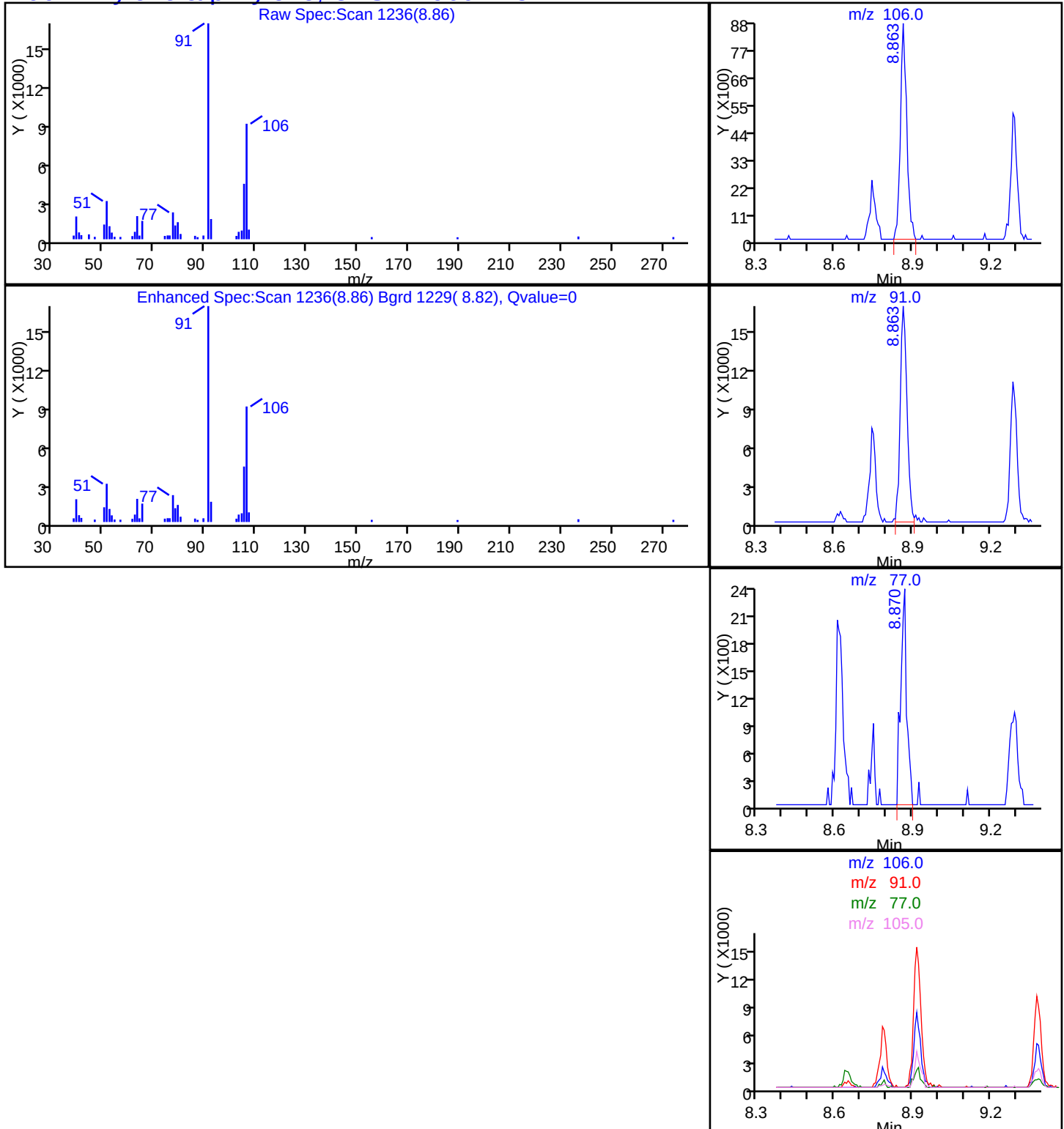
Dil. Factor: 20.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

90 m-Xylene & p-Xylene, CAS: 179601-23-1

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29214.D

Injection Date: 12-Apr-2014 18:06:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-17

Lab Sample ID: 480-57666-17

Client ID: MW-15S

Operator ID: RAL

ALS Bottle#: 17

Worklist Smp#: 24

Purge Vol: 5.000 mL

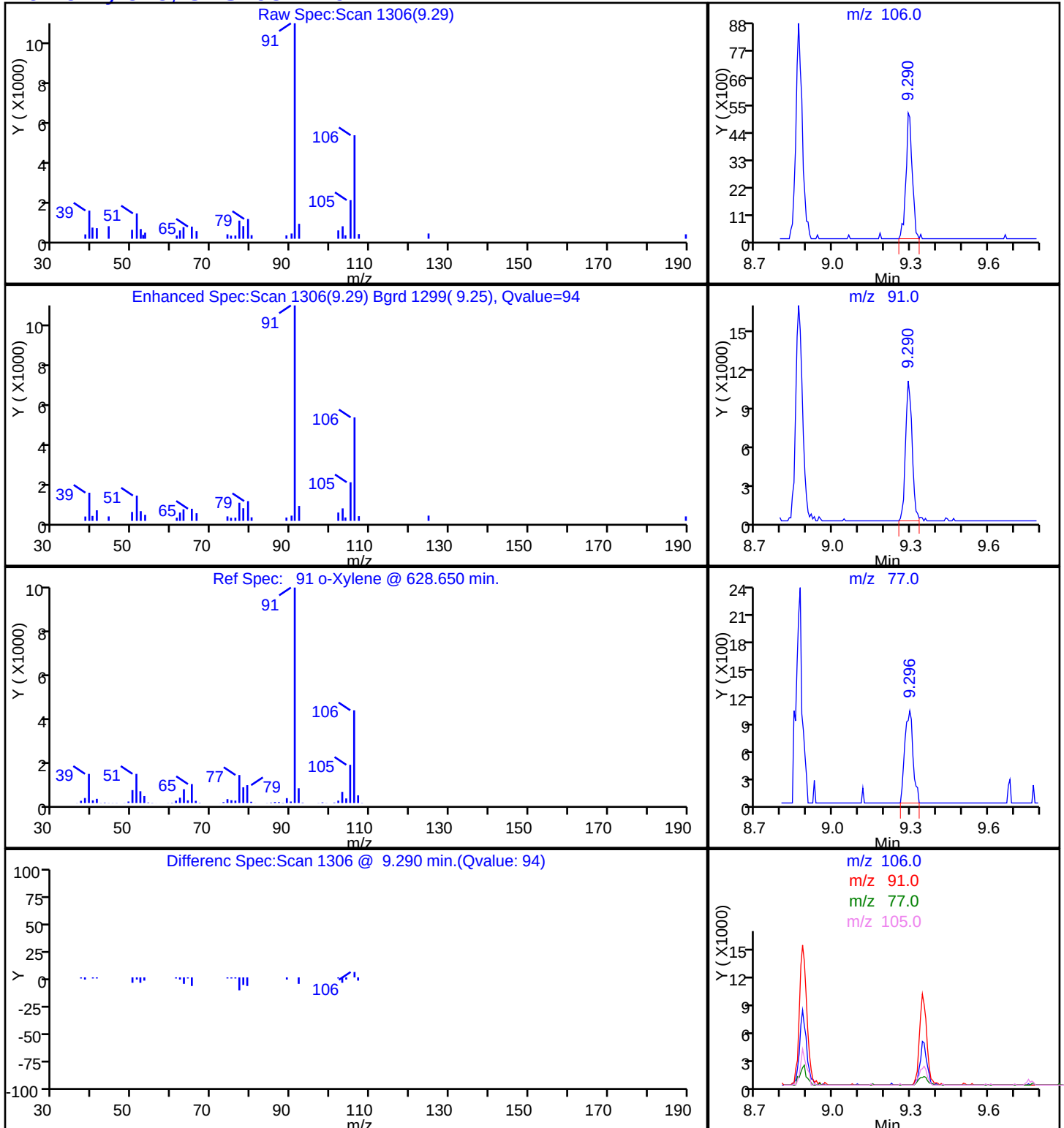
Dil. Factor: 20.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

91 o-Xylene, CAS: 95-47-6

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29214.D

Injection Date: 12-Apr-2014 18:06:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-17

Lab Sample ID: 480-57666-17

Client ID: MW-15S

Operator ID: RAL

ALS Bottle#: 17 Worklist Smp#: 24

Purge Vol: 5.000 mL

Dil. Factor: 20.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

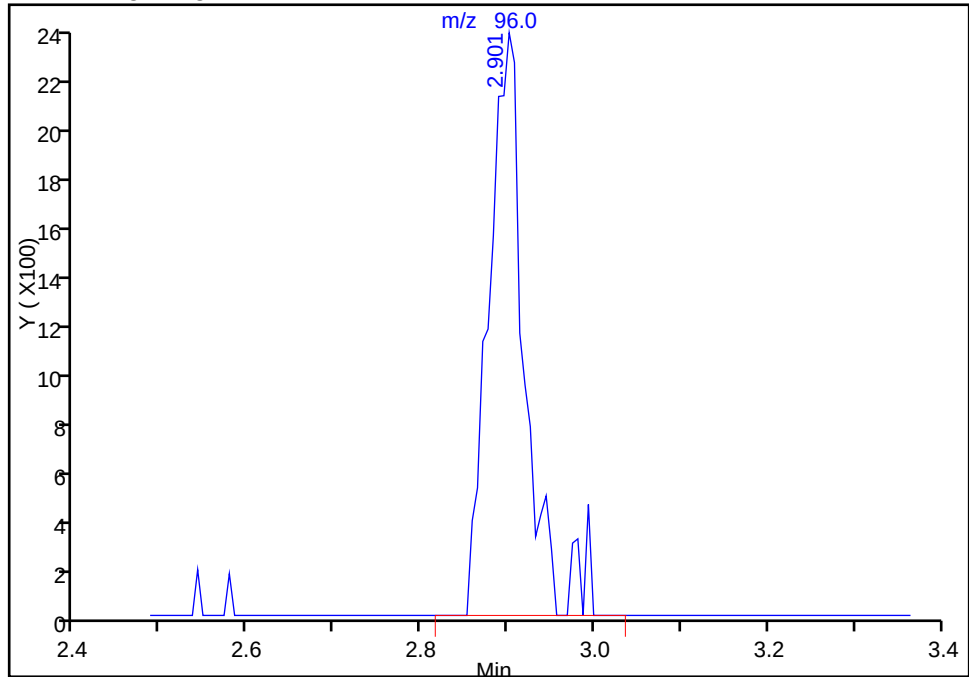
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

20 1,1-Dichloroethene, CAS: 75-35-4

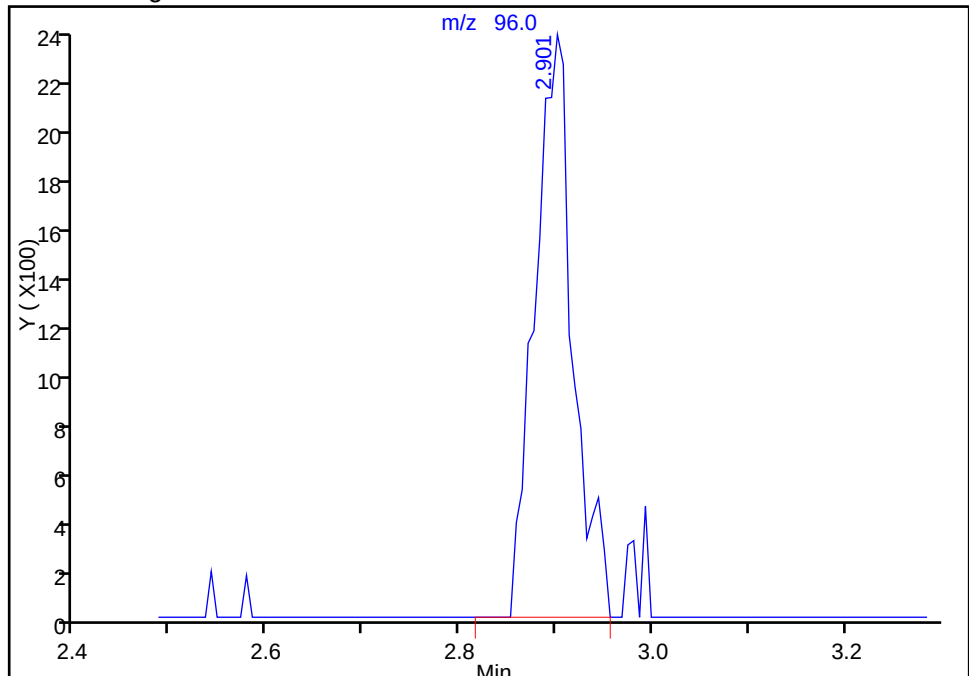
RT: 2.90
Response: 6749
Amount: 0.792956

Processing Integration Results



RT: 2.90
Response: 6373
Amount: 0.748779

Manual Integration Results



Reviewer: goliszekg, 14-Apr-2014 00:18:19

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29214.D

Injection Date: 12-Apr-2014 18:06:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-17

Lab Sample ID: 480-57666-17

Client ID: MW-15S

Operator ID: RAL

ALS Bottle#: 17 Worklist Smp#: 24

Purge Vol: 5.000 mL

Dil. Factor: 20.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

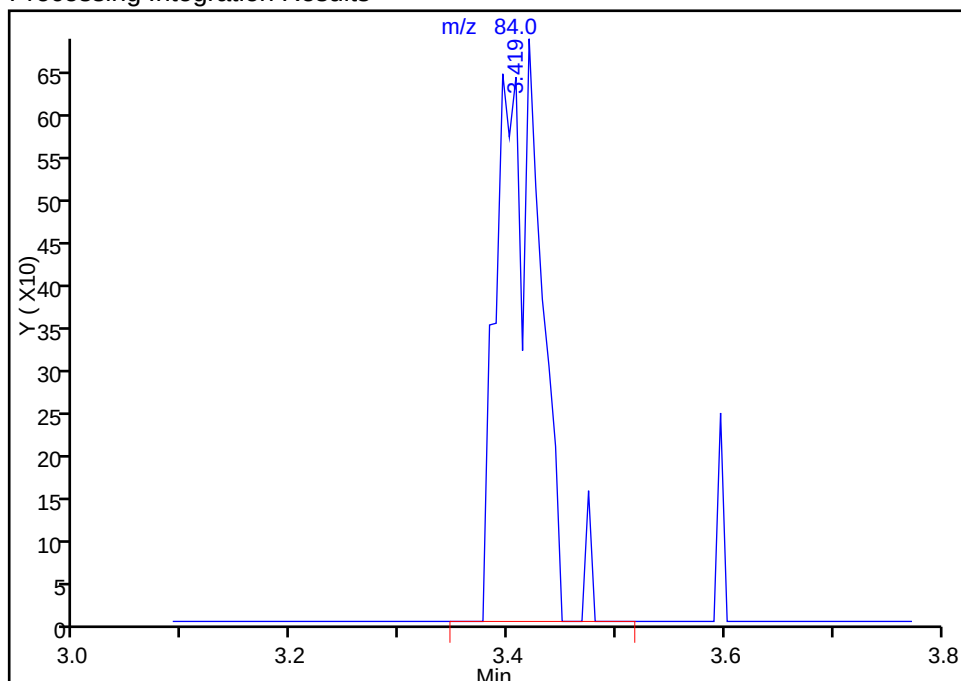
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

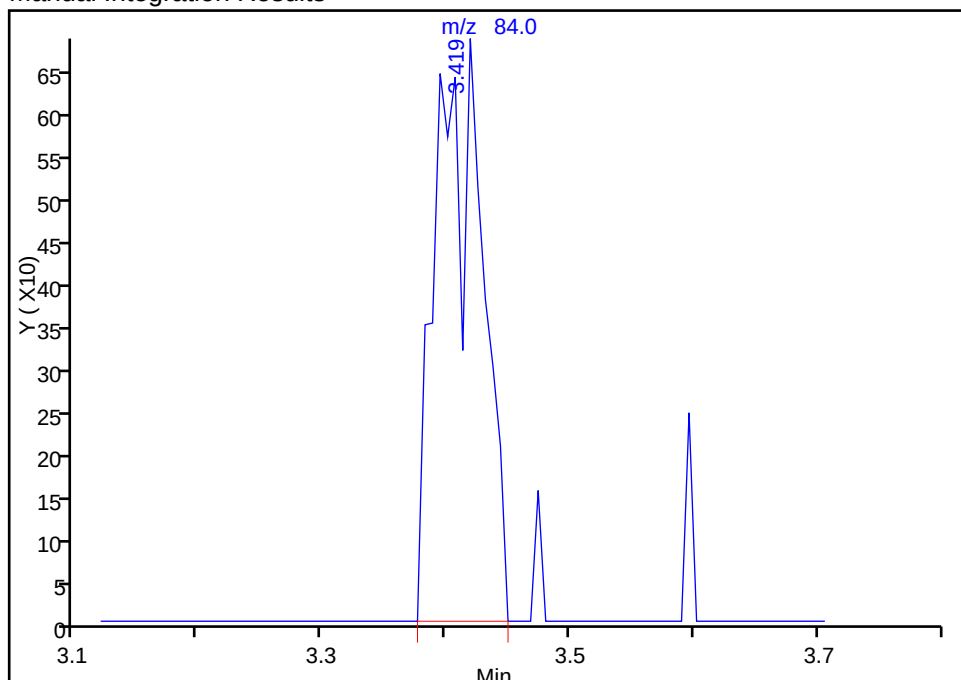
29 Methylene Chloride, CAS: 75-09-2

RT: 3.42
Response: 1859
Amount: 0.196039

Processing Integration Results

RT: 3.42
Response: 1804
Amount: 0.190239

Manual Integration Results



Reviewer: goliszekg, 14-Apr-2014 00:18:19

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: MW-15D Lab Sample ID: 480-57666-18

Matrix: Ground Water Lab File ID: G29215.D

Analysis Method: 8260C Date Collected: 04/10/2014 10:00

Sample wt/vol: 5(mL) Date Analyzed: 04/12/2014 18:29

Soil Aliquot Vol: _____ Dilution Factor: 20

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

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

Analysis Batch No.: 175447 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		20	16
79-34-5	1,1,2,2-Tetrachloroethane	ND		20	4.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	6.2
79-00-5	1,1,2-Trichloroethane	ND		20	4.6
75-34-3	1,1-Dichloroethane	ND		20	7.6
75-35-4	1,1-Dichloroethene	ND		20	5.8
120-82-1	1,2,4-Trichlorobenzene	ND		20	8.2
96-12-8	1,2-Dibromo-3-Chloropropane	ND		20	7.8
106-93-4	1,2-Dibromoethane	ND		20	15
95-50-1	1,2-Dichlorobenzene	ND		20	16
107-06-2	1,2-Dichloroethane	ND		20	4.2
78-87-5	1,2-Dichloropropane	ND		20	14
541-73-1	1,3-Dichlorobenzene	ND		20	16
106-46-7	1,4-Dichlorobenzene	ND		20	17
78-93-3	2-Butanone (MEK)	ND		200	26
591-78-6	2-Hexanone	ND		100	25
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		100	42
67-64-1	Acetone	ND		200	60
71-43-2	Benzene	ND		20	8.2
75-27-4	Bromodichloromethane	ND		20	7.8
75-25-2	Bromoform	ND		20	5.2
74-83-9	Bromomethane	ND		20	14
75-15-0	Carbon disulfide	ND		20	3.8
56-23-5	Carbon tetrachloride	ND		20	5.4
108-90-7	Chlorobenzene	ND		20	15
75-00-3	Chloroethane	1200		20	6.4
67-66-3	Chloroform	ND		20	6.8
74-87-3	Chloromethane	ND		20	7.0
156-59-2	cis-1,2-Dichloroethene	ND		20	16
10061-01-5	cis-1,3-Dichloropropene	ND		20	7.2
110-82-7	Cyclohexane	ND		20	3.6
124-48-1	Dibromochloromethane	ND		20	6.4
75-71-8	Dichlorodifluoromethane	ND		20	14
100-41-4	Ethylbenzene	ND		20	15
98-82-8	Isopropylbenzene	ND		20	16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: MW-15D Lab Sample ID: 480-57666-18

Matrix: Ground Water Lab File ID: G29215.D

Analysis Method: 8260C Date Collected: 04/10/2014 10:00

Sample wt/vol: 5(mL) Date Analyzed: 04/12/2014 18:29

Soil Aliquot Vol: _____ Dilution Factor: 20

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

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

Analysis Batch No.: 175447 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		50	10
1634-04-4	Methyl tert-butyl ether	ND		20	3.2
108-87-2	Methylcyclohexane	ND		20	3.2
75-09-2	Methylene Chloride	ND		20	8.8
100-42-5	Styrene	ND		20	15
127-18-4	Tetrachloroethene	ND		20	7.2
108-88-3	Toluene	ND		20	10
156-60-5	trans-1,2-Dichloroethene	ND		20	18
10061-02-6	trans-1,3-Dichloropropene	ND		20	7.4
79-01-6	Trichloroethene	ND		20	9.2
75-69-4	Trichlorofluoromethane	ND		20	18
75-01-4	Vinyl chloride	ND		20	18
1330-20-7	Xylenes, Total	ND		40	13

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		66-137
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
2037-26-5	Toluene-d8 (Surr)	99		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29215.D
 Lims ID: 480-57666-A-18 Lab Sample ID: 480-57666-18
 Client ID: MW-15D
 Sample Type: Client
 Inject. Date: 12-Apr-2014 18:29:30 ALS Bottle#: 18 Worklist Smp#: 25
 Purge Vol: 5.000 mL Dil. Factor: 20.0000
 Sample Info: 480-57666-A-18
 Misc. Info.: 480-0031029-025 =480-0031029-025
 Operator ID: RAL Instrument ID: HP5973G
 Method: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 14-Apr-2014 00:18:19 Calib Date: 10-Apr-2014 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: goliszekg

Date: 14-Apr-2014 00:19:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.0	98	603761	25.0	
* 2 Chlorobenzene-d5	82	8.620	8.620	0.0	88	257909	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.985	10.985	0.0	96	224098	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.334	5.334	0.0	0	103949	26.5	
\$ 5 Toluene-d8 (Surr)	98	7.132	7.132	0.0	95	591924	24.7	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.863	9.863	0.0	82	144163	24.5	
10 Dichlorodifluoromethane	85		1.450					
12 Chloromethane	50		1.591					
13 Vinyl chloride	62		1.713					
14 Bromomethane	94		2.042					
15 Chloroethane	64	2.145	2.139	0.006	97	372116	60.9	
17 Trichlorofluoromethane	101		2.383					
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.889					
20 1,1-Dichloroethene	96		2.889					
22 Acetone	43		2.956					
24 Carbon disulfide	76		3.103					
28 Methyl acetate	43		3.255					
29 Methylene Chloride	84		3.407					
31 Methyl tert-butyl ether	73		3.584					
32 trans-1,2-Dichloroethene	96		3.596					
36 1,1-Dichloroethane	63		4.005					
43 cis-1,2-Dichloroethene	96		4.560					
44 2-Butanone (MEK)	43		4.584					
50 Chloroform	85		4.870					
51 1,1,1-Trichloroethane	97		4.999					
52 Cyclohexane	56		5.023					
53 Carbon tetrachloride	117		5.151					
56 Benzene	78		5.352					
57 1,2-Dichloroethane	62		5.401					
61 Trichloroethene	95		5.968					
62 Methylcyclohexane	83		6.102					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
63 1,2-Dichloropropane	63		6.193					
67 Dichlorobromomethane	83		6.480					
72 cis-1,3-Dichloropropene	75		6.901					
73 4-Methyl-2-pentanone (MIBK)	43		7.035					
74 Toluene	92		7.199					
76 trans-1,3-Dichloropropene	75		7.461					
79 1,1,2-Trichloroethane	83		7.650					
80 Tetrachloroethene	166		7.742					
82 2-Hexanone	43		7.876					
83 Chlorodibromomethane	129		8.053					
84 Ethylene Dibromide	107		8.156					
86 Chlorobenzene	112		8.650					
89 Ethylbenzene	91		8.742					
90 m-Xylene & p-Xylene	106		8.864					
91 o-Xylene	106		9.290					
92 Styrene	104		9.315					
93 Bromoform	173		9.552					
95 Isopropylbenzene	105		9.674					
98 1,1,2,2-Tetrachloroethane	83		10.040					
110 1,3-Dichlorobenzene	146		10.924					
113 1,4-Dichlorobenzene	146		11.010					
116 1,2-Dichlorobenzene	146		11.357					
117 1,2-Dibromo-3-Chloropropane	75		12.076					
119 1,2,4-Trichlorobenzene	180		12.765					
S 124 Xylenes, Total	1		30.000					

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29215.D

Injection Date: 12-Apr-2014 18:29:30

Instrument ID: HP5973G

Operator ID: RAL

Lims ID: 480-57666-A-18

Lab Sample ID: 480-57666-18

Worklist Smp#: 25

Client ID: MW-15D

Purge Vol: 5.000 mL

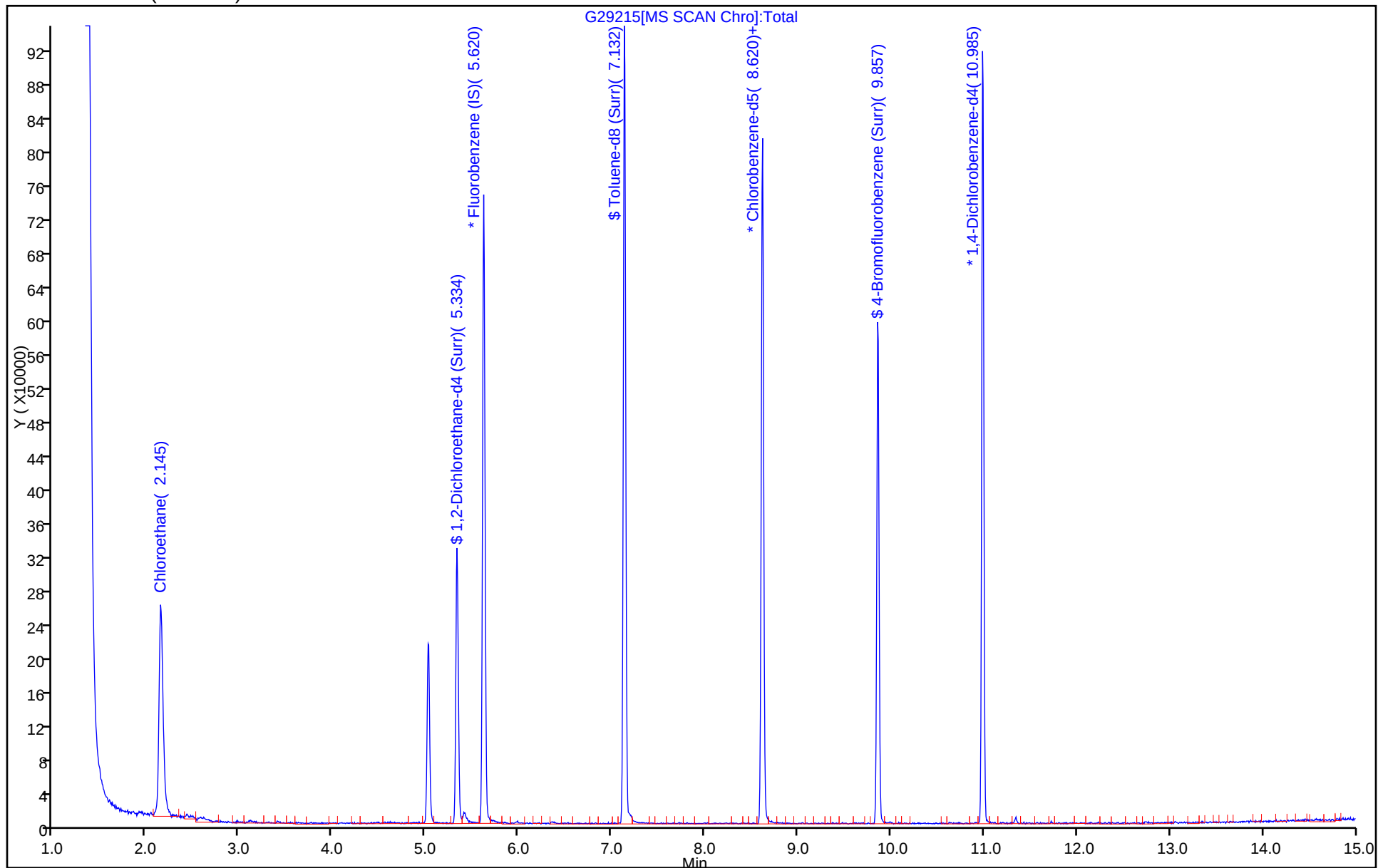
Dil. Factor: 20.0000

ALS Bottle#: 18

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29215.D

Injection Date: 12-Apr-2014 18:29:30

Instrument ID: HP5973G

Lims ID: 480-57666-A-18

Lab Sample ID: 480-57666-18

Client ID: MW-15D

Operator ID: RAL

ALS Bottle#: 18

Worklist Smp#: 25

Purge Vol: 5.000 mL

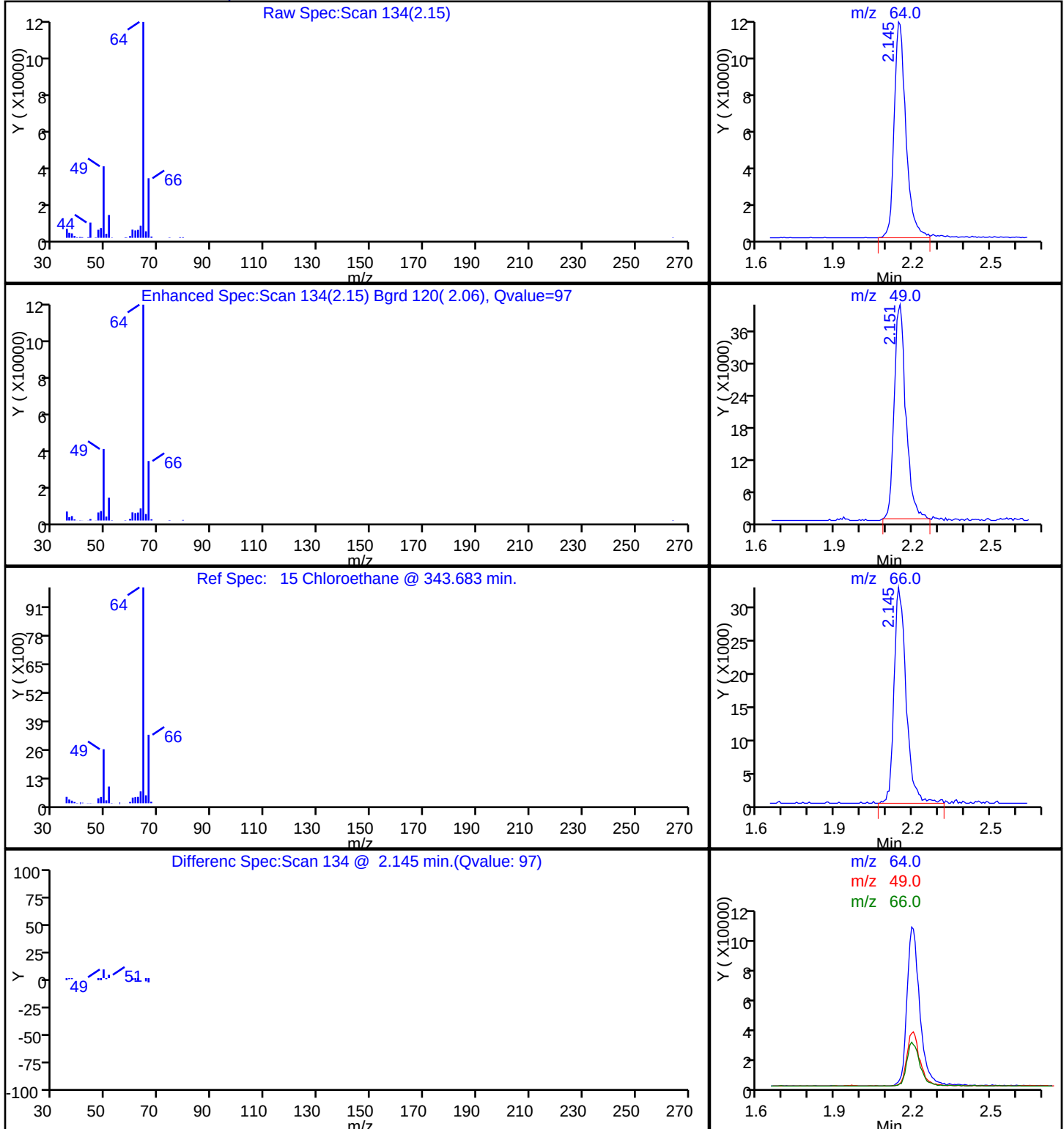
Dil. Factor: 20.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: MW-16S Lab Sample ID: 480-57666-19

Matrix: Ground Water Lab File ID: G29255.D

Analysis Method: 8260C Date Collected: 04/10/2014 09:10

Sample wt/vol: 5(mL) Date Analyzed: 04/14/2014 07:45

Soil Aliquot Vol: _____ Dilution Factor: 1000

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

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

Analysis Batch No.: 175488 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1000		1000	820
79-34-5	1,1,2,2-Tetrachloroethane	ND		1000	210
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1000	310
79-00-5	1,1,2-Trichloroethane	ND		1000	230
75-34-3	1,1-Dichloroethane	500	J	1000	380
75-35-4	1,1-Dichloroethene	340	J	1000	290
120-82-1	1,2,4-Trichlorobenzene	ND		1000	410
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1000	390
106-93-4	1,2-Dibromoethane	ND		1000	730
95-50-1	1,2-Dichlorobenzene	ND		1000	790
107-06-2	1,2-Dichloroethane	ND		1000	210
78-87-5	1,2-Dichloropropane	ND		1000	720
541-73-1	1,3-Dichlorobenzene	ND		1000	780
106-46-7	1,4-Dichlorobenzene	ND		1000	840
78-93-3	2-Butanone (MEK)	ND		10000	1300
591-78-6	2-Hexanone	ND		5000	1200
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5000	2100
67-64-1	Acetone	ND		10000	3000
71-43-2	Benzene	ND		1000	410
75-27-4	Bromodichloromethane	ND		1000	390
75-25-2	Bromoform	ND		1000	260
74-83-9	Bromomethane	ND		1000	690
75-15-0	Carbon disulfide	ND		1000	190
56-23-5	Carbon tetrachloride	ND		1000	270
108-90-7	Chlorobenzene	ND		1000	750
75-00-3	Chloroethane	ND		1000	320
67-66-3	Chloroform	ND		1000	340
74-87-3	Chloromethane	ND		1000	350
156-59-2	cis-1,2-Dichloroethene	24000		1000	810
10061-01-5	cis-1,3-Dichloropropene	ND		1000	360
110-82-7	Cyclohexane	ND		1000	180
124-48-1	Dibromochloromethane	ND		1000	320
75-71-8	Dichlorodifluoromethane	ND		1000	680
100-41-4	Ethylbenzene	ND		1000	740
98-82-8	Isopropylbenzene	ND		1000	790

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1
 SDG No.: _____
 Client Sample ID: MW-16S Lab Sample ID: 480-57666-19
 Matrix: Ground Water Lab File ID: G29255.D
 Analysis Method: 8260C Date Collected: 04/10/2014 09:10
 Sample wt/vol: 5(mL) Date Analyzed: 04/14/2014 07:45
 Soil Aliquot Vol: _____ Dilution Factor: 1000
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 175488 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2500	500
1634-04-4	Methyl tert-butyl ether	ND		1000	160
108-87-2	Methylcyclohexane	ND		1000	160
75-09-2	Methylene Chloride	ND		1000	440
100-42-5	Styrene	ND		1000	730
127-18-4	Tetrachloroethene	ND		1000	360
108-88-3	Toluene	ND		1000	510
156-60-5	trans-1,2-Dichloroethene	ND		1000	900
10061-02-6	trans-1,3-Dichloropropene	ND		1000	370
79-01-6	Trichloroethene	61000		1000	460
75-69-4	Trichlorofluoromethane	ND		1000	880
75-01-4	Vinyl chloride	1600		1000	900
1330-20-7	Xylenes, Total	ND		2000	660

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		66-137
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
2037-26-5	Toluene-d8 (Surr)	102		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G29255.D
 Lims ID: 480-57666-B-19 Lab Sample ID: 480-57666-19
 Client ID: MW-16S
 Sample Type: Client
 Inject. Date: 14-Apr-2014 07:45:30 ALS Bottle#: 58 Worklist Smp#: 25
 Purge Vol: 5.000 mL Dil. Factor: 1000.0000
 Sample Info: 480-57666-B-19
 Misc. Info.: 480-0031036-025 =480-0031036-025
 Operator ID: gtg Instrument ID: HP5973G
 Method: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 14-Apr-2014 09:59:17 Calib Date: 10-Apr-2014 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: larsonr

Date: 14-Apr-2014 10:27:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.0	98	592545	25.0	
* 2 Chlorobenzene-d5	82	8.620	8.620	0.0	88	243399	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.991	10.991	0.0	98	214634	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.340	5.334	0.006	0	103593	26.9	
\$ 5 Toluene-d8 (Surr)	98	7.138	7.132	0.006	94	575697	25.4	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.863	9.863	0.0	80	135468	24.4	
10 Dichlorodifluoromethane	85		1.444					
12 Chloromethane	50		1.591					
13 Vinyl chloride	62	1.706	1.713	-0.007	77	17928	1.60	
14 Bromomethane	94		2.011					
15 Chloroethane	64	2.170	2.152	0.018	33	1813	0.3023	
17 Trichlorofluoromethane	101		2.383					
20 1,1-Dichloroethene	96	2.901	2.889	0.012	51	2745	0.3371	
21 1,1,2-Trichloro-1,2,2-trifluoro	101		2.895					
22 Acetone	43		2.956					
24 Carbon disulfide	76		3.097					
28 Methyl acetate	43		3.255					
29 Methylene Chloride	84		3.407					
31 Methyl tert-butyl ether	73		3.584					
32 trans-1,2-Dichloroethene	96		3.596					
36 1,1-Dichloroethane	63	4.011	4.005	0.006	57	6607	0.4983	
43 cis-1,2-Dichloroethene	96	4.566	4.560	0.006	74	158341	23.5	
44 2-Butanone (MEK)	43		4.590					
50 Chloroform	85		4.871					
51 1,1,1-Trichloroethane	97	5.004	4.999	0.005	71	7117	1.03	
52 Cyclohexane	56		5.029					
53 Carbon tetrachloride	117		5.145					
56 Benzene	78		5.352					
57 1,2-Dichloroethane	62		5.401					
61 Trichloroethene	95	5.968	5.962	0.006	93	393167	61.3	
62 Methylcyclohexane	83		6.102					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
63 1,2-Dichloropropane	63		6.193					
67 Dichlorobromomethane	83		6.480					
72 cis-1,3-Dichloropropene	75		6.901					
73 4-Methyl-2-pentanone (MIBK)	43		7.035					
74 Toluene	92		7.199					
76 trans-1,3-Dichloropropene	75		7.462					
79 1,1,2-Trichloroethane	83		7.651					
80 Tetrachloroethene	166		7.742					
82 2-Hexanone	43		7.876					
83 Chlorodibromomethane	129		8.053					
84 Ethylene Dibromide	107		8.163					
86 Chlorobenzene	112		8.650					
89 Ethylbenzene	91		8.742					
90 m-Xylene & p-Xylene	106		8.864					
91 o-Xylene	106		9.290					
92 Styrene	104		9.321					
93 Bromoform	173		9.553					
95 Isopropylbenzene	105		9.674					
98 1,1,2,2-Tetrachloroethane	83		10.040					
110 1,3-Dichlorobenzene	146		10.924					
113 1,4-Dichlorobenzene	146		11.010					
116 1,2-Dichlorobenzene	146		11.363					
117 1,2-Dibromo-3-Chloropropane	75		12.076					
119 1,2,4-Trichlorobenzene	180		12.765					
S 124 Xylenes, Total	1		30.000					

TestAmerica Buffalo

Data File: \\Bufchrom\\ChromData\\HP5973G\\20140413-31036.b\\G29255.D

Injection Date: 14-Apr-2014 07:45:30

Instrument ID: HP5973G

Operator ID: gtg

Lims ID: 480-57666-B-19

Lab Sample ID: 480-57666-19

Worklist Smp#: 25

Client ID: MW-16S

Purge Vol: 5.000 mL

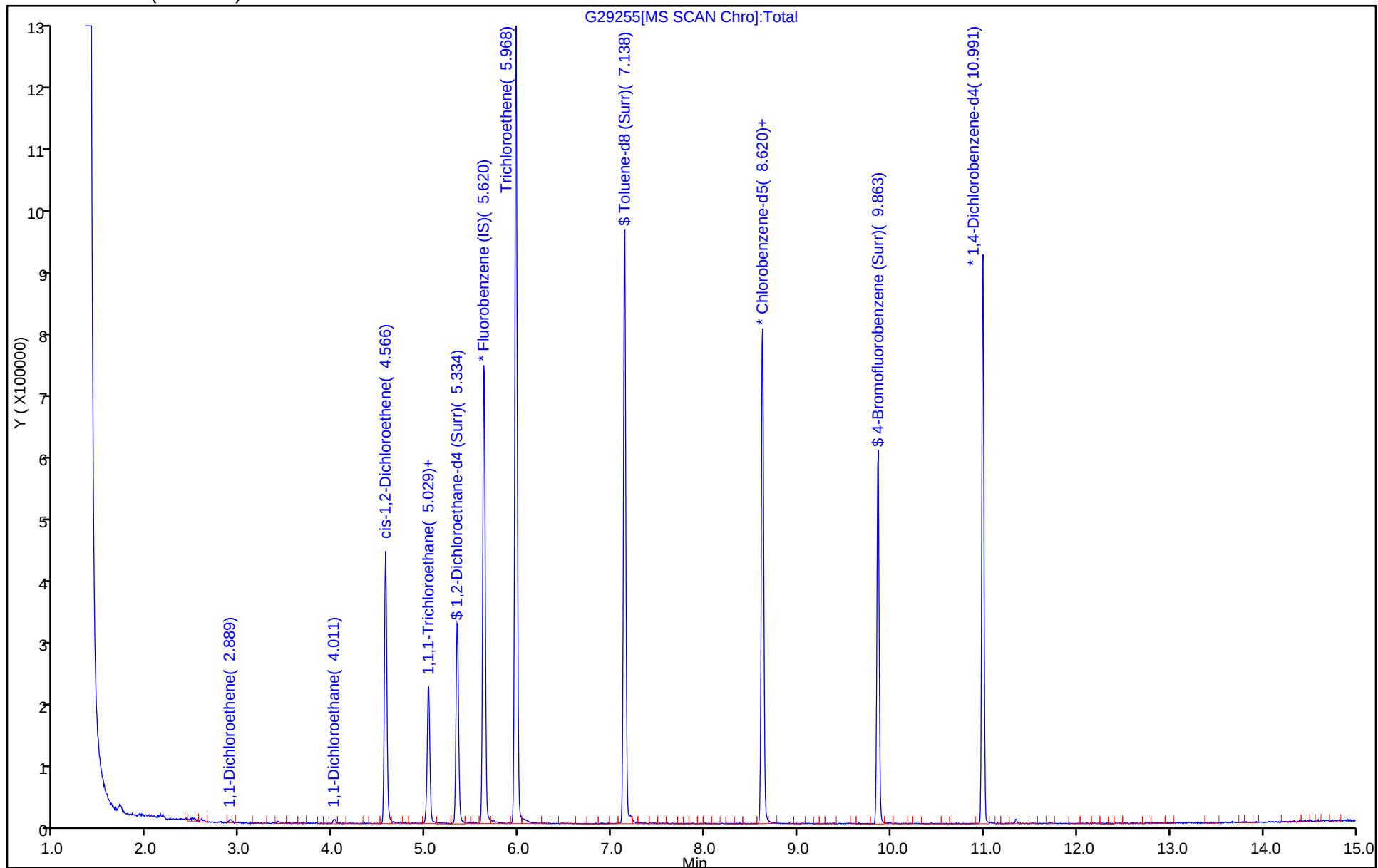
Dil. Factor: 1000.0000

ALS Bottle#: 58

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G29255.D

Injection Date: 14-Apr-2014 07:45:30

Instrument ID: HP5973G

Lims ID: 480-57666-B-19

Lab Sample ID: 480-57666-19

Client ID: MW-16S

Operator ID: gtg

ALS Bottle#: 58

Worklist Smp#: 25

Purge Vol: 5.000 mL

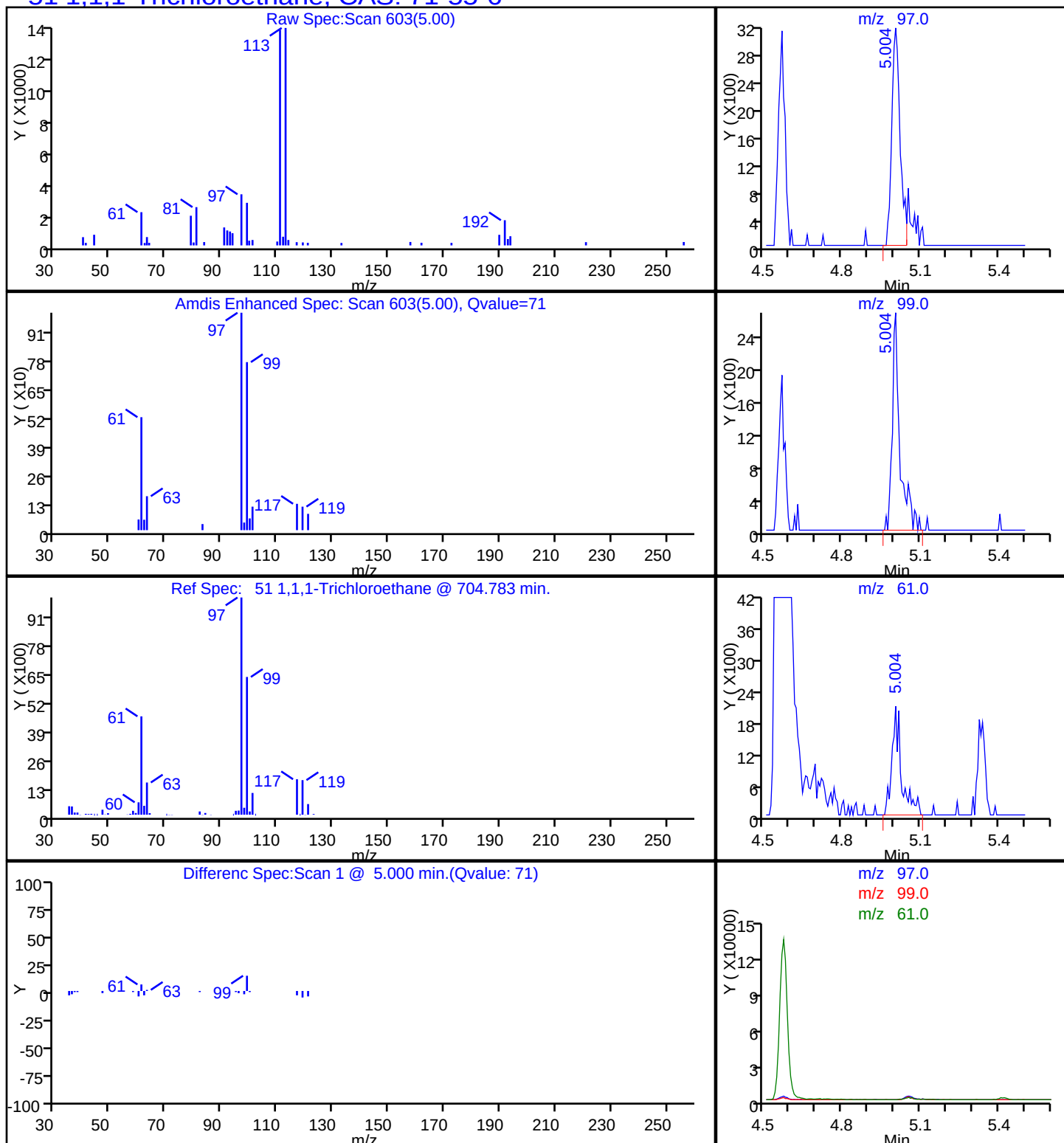
Dil. Factor: 1000.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G29255.D

Injection Date: 14-Apr-2014 07:45:30

Instrument ID: HP5973G

Lims ID: 480-57666-B-19

Lab Sample ID: 480-57666-19

Client ID: MW-16S

Operator ID: gtg

ALS Bottle#: 58

Worklist Smp#: 25

Purge Vol: 5.000 mL

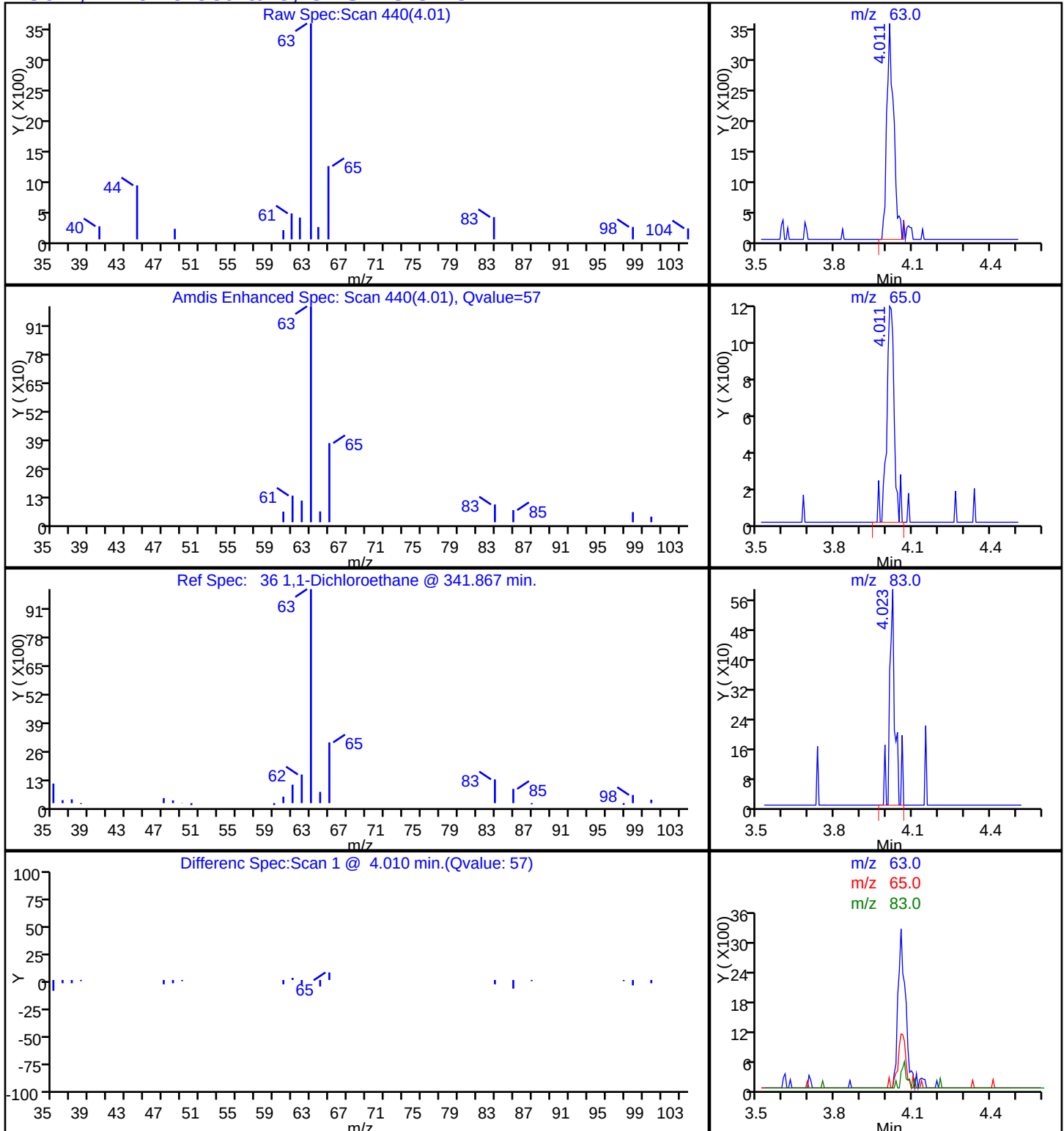
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Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G29255.D

Injection Date: 14-Apr-2014 07:45:30

Instrument ID: HP5973G

Lims ID: 480-57666-B-19

Lab Sample ID: 480-57666-19

Client ID: MW-16S

Operator ID: gtg

ALS Bottle#: 58

Worklist Smp#: 25

Purge Vol: 5.000 mL

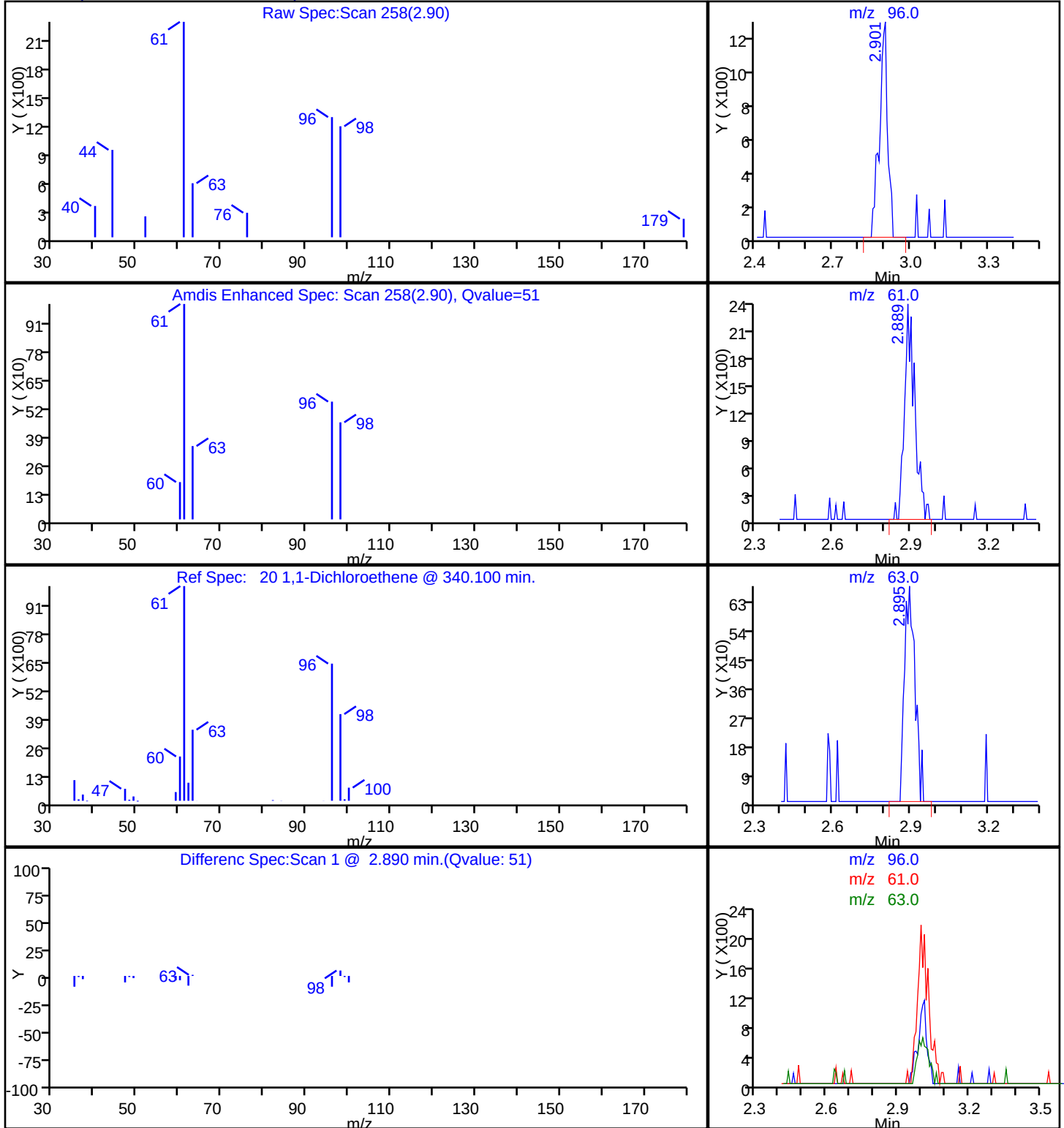
Dil. Factor: 1000.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

20 1,1-Dichloroethene, CAS: 75-35-4

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G29255.D

Injection Date: 14-Apr-2014 07:45:30

Instrument ID: HP5973G

Lims ID: 480-57666-B-19

Lab Sample ID: 480-57666-19

Client ID: MW-16S

Operator ID: gtg

ALS Bottle#: 58

Worklist Smp#: 25

Purge Vol: 5.000 mL

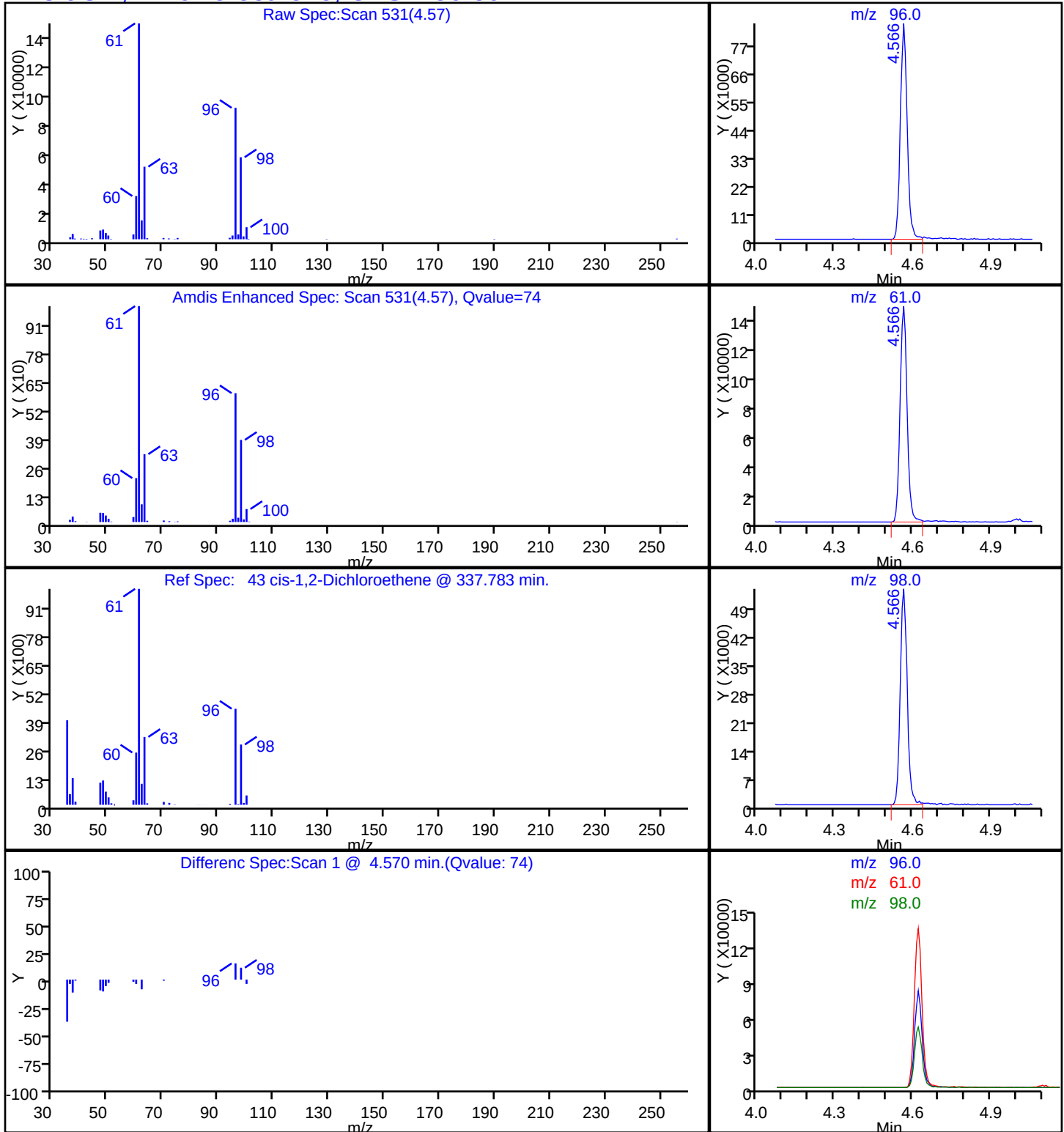
Dil. Factor: 1000.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G29255.D

Injection Date: 14-Apr-2014 07:45:30

Instrument ID: HP5973G

Lims ID: 480-57666-B-19

Lab Sample ID: 480-57666-19

Client ID: MW-16S

Operator ID: gtg

ALS Bottle#: 58

Worklist Smp#: 25

Purge Vol: 5.000 mL

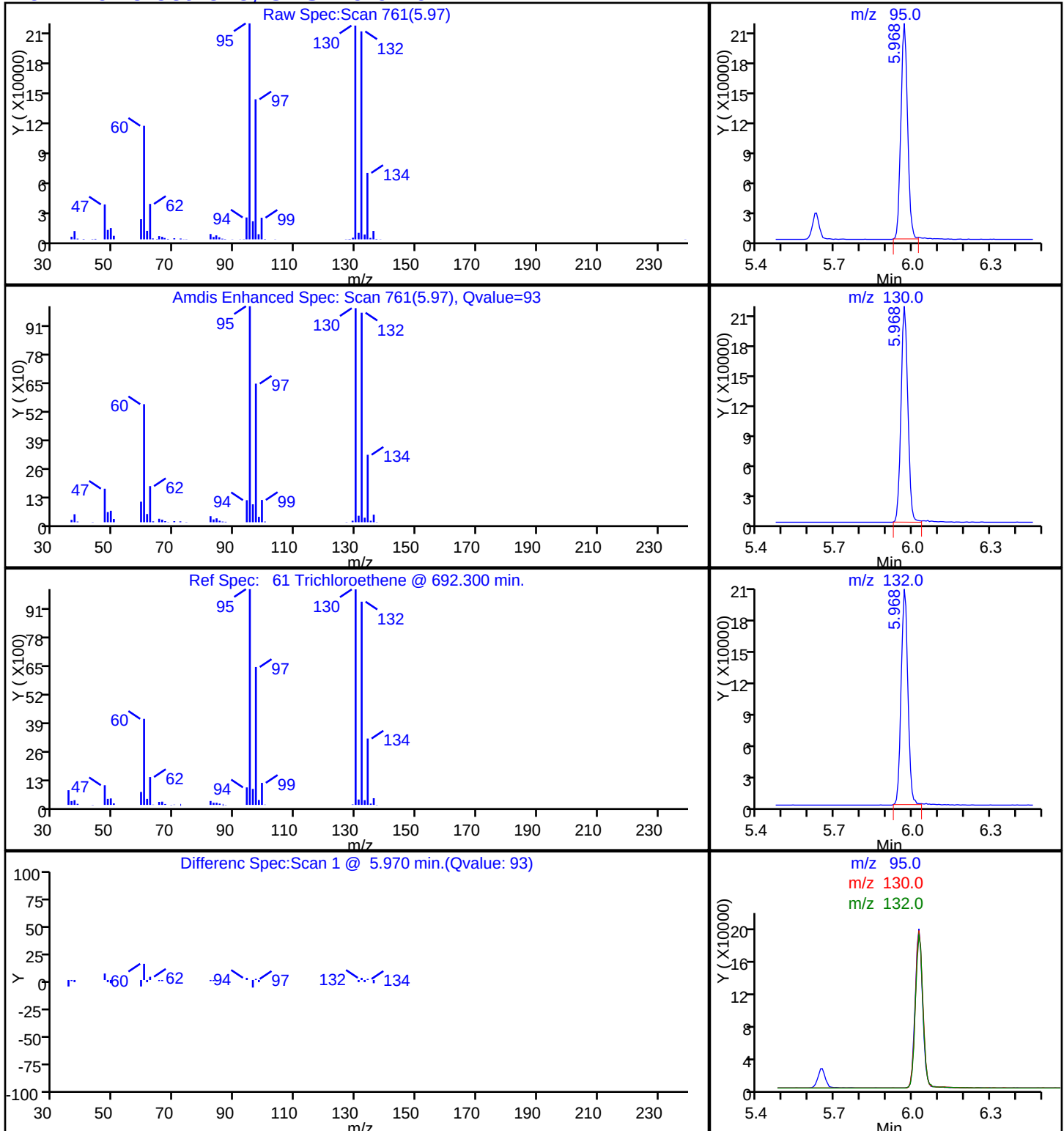
Dil. Factor: 1000.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

61 Trichloroethene, CAS: 79-01-6

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G29255.D

Injection Date: 14-Apr-2014 07:45:30

Instrument ID: HP5973G

Lims ID: 480-57666-B-19

Lab Sample ID: 480-57666-19

Client ID: MW-16S

Operator ID: gtg

ALS Bottle#: 58 Worklist Smp#: 25

Purge Vol: 5.000 mL

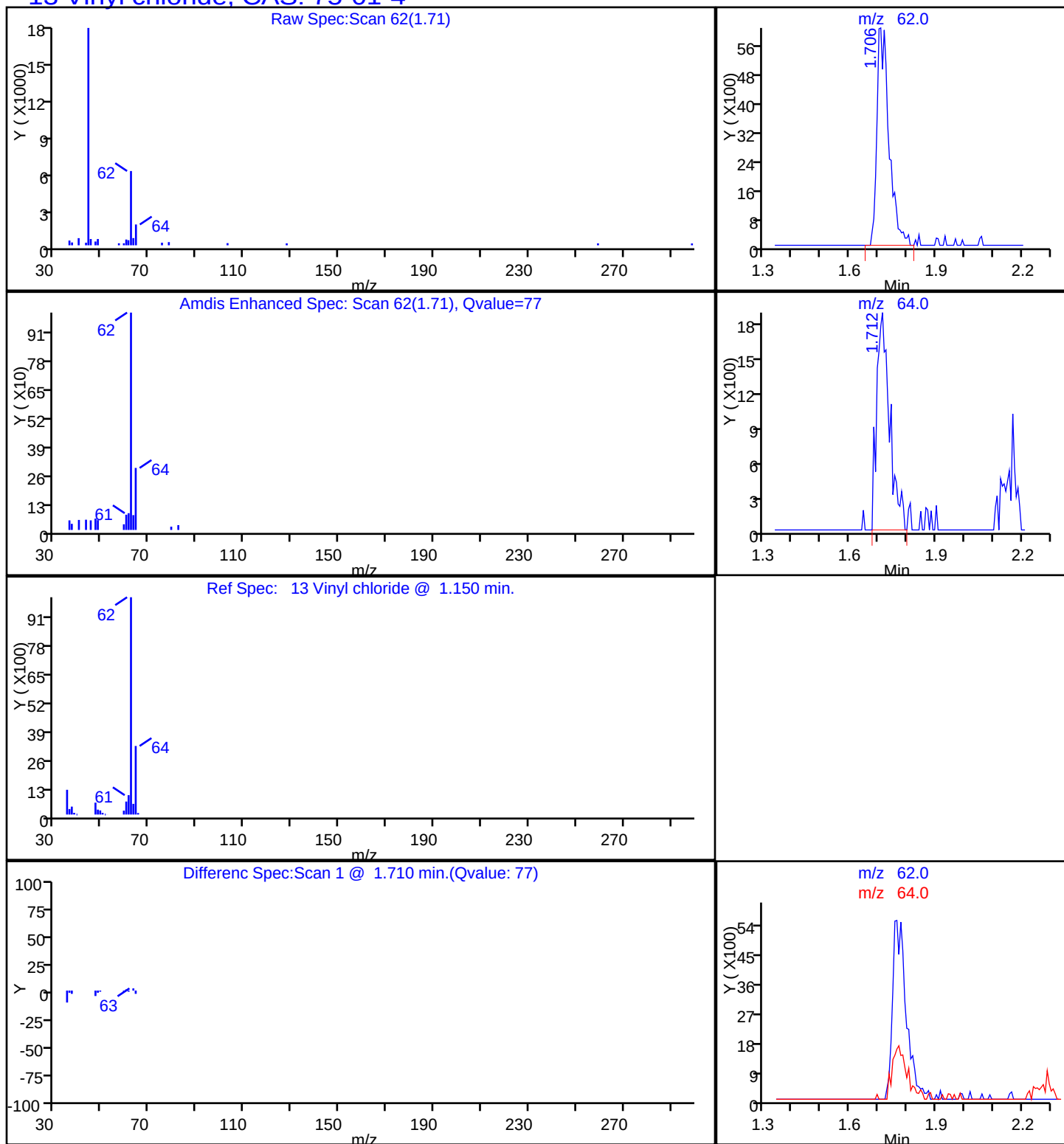
Dil. Factor: 1000.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector MS SCAN

13 Vinyl chloride, CAS: 75-01-4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: MW-16D Lab Sample ID: 480-57666-20

Matrix: Ground Water Lab File ID: G29256.D

Analysis Method: 8260C Date Collected: 04/10/2014 08:35

Sample wt/vol: 5(mL) Date Analyzed: 04/14/2014 08:08

Soil Aliquot Vol: _____ Dilution Factor: 25

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

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

Analysis Batch No.: 175488 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		25	21
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	5.3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25	7.8
79-00-5	1,1,2-Trichloroethane	ND		25	5.8
75-34-3	1,1-Dichloroethane	99		25	9.5
75-35-4	1,1-Dichloroethene	ND		25	7.3
120-82-1	1,2,4-Trichlorobenzene	ND		25	10
96-12-8	1,2-Dibromo-3-Chloropropane	ND		25	9.8
106-93-4	1,2-Dibromoethane	ND		25	18
95-50-1	1,2-Dichlorobenzene	ND		25	20
107-06-2	1,2-Dichloroethane	ND		25	5.3
78-87-5	1,2-Dichloropropane	ND		25	18
541-73-1	1,3-Dichlorobenzene	ND		25	20
106-46-7	1,4-Dichlorobenzene	ND		25	21
78-93-3	2-Butanone (MEK)	ND		250	33
591-78-6	2-Hexanone	ND		130	31
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		130	53
67-64-1	Acetone	ND		250	75
71-43-2	Benzene	ND		25	10
75-27-4	Bromodichloromethane	ND		25	9.8
75-25-2	Bromoform	ND		25	6.5
74-83-9	Bromomethane	ND		25	17
75-15-0	Carbon disulfide	ND		25	4.8
56-23-5	Carbon tetrachloride	ND		25	6.8
108-90-7	Chlorobenzene	ND		25	19
75-00-3	Chloroethane	110		25	8.0
67-66-3	Chloroform	ND		25	8.5
74-87-3	Chloromethane	ND		25	8.8
156-59-2	cis-1,2-Dichloroethene	1700		25	20
10061-01-5	cis-1,3-Dichloropropene	ND		25	9.0
110-82-7	Cyclohexane	ND		25	4.5
124-48-1	Dibromochloromethane	ND		25	8.0
75-71-8	Dichlorodifluoromethane	ND		25	17
100-41-4	Ethylbenzene	ND		25	19
98-82-8	Isopropylbenzene	ND		25	20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1
 SDG No.: _____
 Client Sample ID: MW-16D Lab Sample ID: 480-57666-20
 Matrix: Ground Water Lab File ID: G29256.D
 Analysis Method: 8260C Date Collected: 04/10/2014 08:35
 Sample wt/vol: 5(mL) Date Analyzed: 04/14/2014 08:08
 Soil Aliquot Vol: _____ Dilution Factor: 25
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 175488 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		63	13
1634-04-4	Methyl tert-butyl ether	ND		25	4.0
108-87-2	Methylcyclohexane	ND		25	4.0
75-09-2	Methylene Chloride	ND		25	11
100-42-5	Styrene	ND		25	18
127-18-4	Tetrachloroethene	ND		25	9.0
108-88-3	Toluene	ND		25	13
156-60-5	trans-1,2-Dichloroethene	ND		25	23
10061-02-6	trans-1,3-Dichloropropene	ND		25	9.3
79-01-6	Trichloroethene	ND		25	12
75-69-4	Trichlorofluoromethane	ND		25	22
75-01-4	Vinyl chloride	390		25	23
1330-20-7	Xylenes, Total	ND		50	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		66-137
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
2037-26-5	Toluene-d8 (Surr)	101		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G29256.D
 Lims ID: 480-57666-B-20 Lab Sample ID: 480-57666-20
 Client ID: MW-16D
 Sample Type: Client
 Inject. Date: 14-Apr-2014 08:08:30 ALS Bottle#: 59 Worklist Smp#: 26
 Purge Vol: 5.000 mL Dil. Factor: 25.0000
 Sample Info: 480-57666-B-20
 Misc. Info.: 480-0031036-026 =480-0031036-026
 Operator ID: gtg Instrument ID: HP5973G
 Method: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 14-Apr-2014 09:59:17 Calib Date: 10-Apr-2014 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: larsonr

Date: 14-Apr-2014 10:28:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.0	98	589366	25.0	
* 2 Chlorobenzene-d5	82	8.614	8.620	-0.006	90	243523	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.985	10.991	-0.006	97	213622	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.334	5.334	0.0	0	103468	27.0	
\$ 5 Toluene-d8 (Surr)	98	7.138	7.132	0.006	94	573672	25.3	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.863	9.863	0.0	81	137028	24.7	
10 Dichlorodifluoromethane	85		1.444					
12 Chloromethane	50		1.591					
13 Vinyl chloride	62	1.713	1.713	0.0	83	175077	15.7	
14 Bromomethane	94		2.011					
15 Chloroethane	64	2.151	2.152	-0.001	86	27084	4.54	
17 Trichlorofluoromethane	101		2.383					
20 1,1-Dichloroethene	96		2.889					
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.895					
22 Acetone	43		2.956					
24 Carbon disulfide	76		3.097					
28 Methyl acetate	43		3.255					
29 Methylene Chloride	84		3.407					
31 Methyl tert-butyl ether	73		3.584					
32 trans-1,2-Dichloroethene	96	3.602	3.596	0.006	63	1589	0.2373	
36 1,1-Dichloroethane	63	4.011	4.005	0.006	81	52187	3.96	
43 cis-1,2-Dichloroethene	96	4.560	4.560	0.0	74	462002	69.0	
44 2-Butanone (MEK)	43		4.590					
50 Chloroform	85		4.871					
51 1,1,1-Trichloroethane	97		4.999					
52 Cyclohexane	56		5.029					
53 Carbon tetrachloride	117		5.145					
56 Benzene	78		5.352					
57 1,2-Dichloroethane	62		5.401					
61 Trichloroethene	95		5.962					
62 Methylcyclohexane	83		6.102					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
63 1,2-Dichloropropane	63		6.193					
67 Dichlorobromomethane	83		6.480					
72 cis-1,3-Dichloropropene	75		6.901					
73 4-Methyl-2-pentanone (MIBK)	43		7.035					
74 Toluene	92		7.199					
76 trans-1,3-Dichloropropene	75		7.462					
79 1,1,2-Trichloroethane	83		7.651					
80 Tetrachloroethene	166		7.742					
82 2-Hexanone	43		7.876					
83 Chlorodibromomethane	129		8.053					
84 Ethylene Dibromide	107		8.163					
86 Chlorobenzene	112		8.650					
89 Ethylbenzene	91		8.742					
90 m-Xylene & p-Xylene	106		8.864					
91 o-Xylene	106		9.290					
92 Styrene	104		9.321					
93 Bromoform	173		9.553					
95 Isopropylbenzene	105		9.674					
98 1,1,2,2-Tetrachloroethane	83		10.040					
110 1,3-Dichlorobenzene	146		10.924					
113 1,4-Dichlorobenzene	146		11.010					
116 1,2-Dichlorobenzene	146		11.363					
117 1,2-Dibromo-3-Chloropropane	75		12.076					
119 1,2,4-Trichlorobenzene	180		12.765					
S 124 Xylenes, Total	1		30.000					

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G29256.D

Injection Date: 14-Apr-2014 08:08:30

Instrument ID: HP5973G

Operator ID: gtg

Lims ID: 480-57666-B-20

Lab Sample ID: 480-57666-20

Worklist Smp#: 26

Client ID: MW-16D

Purge Vol: 5.000 mL

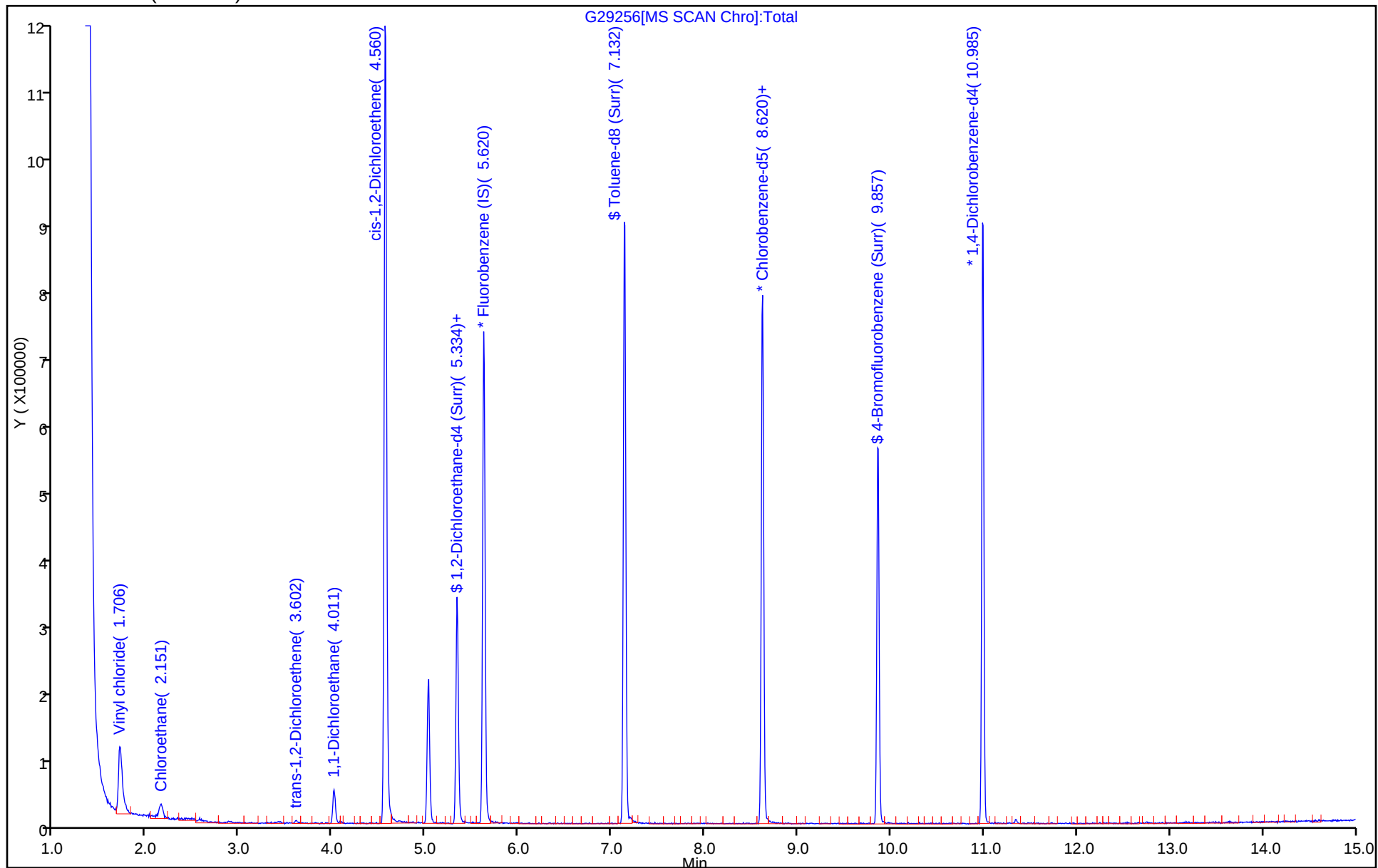
Dil. Factor: 25.0000

ALS Bottle#: 59

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G29256.D

Injection Date: 14-Apr-2014 08:08:30

Instrument ID: HP5973G

Lims ID: 480-57666-B-20

Lab Sample ID: 480-57666-20

Client ID: MW-16D

Operator ID: gtg

ALS Bottle#: 59

Worklist Smp#: 26

Purge Vol: 5.000 mL

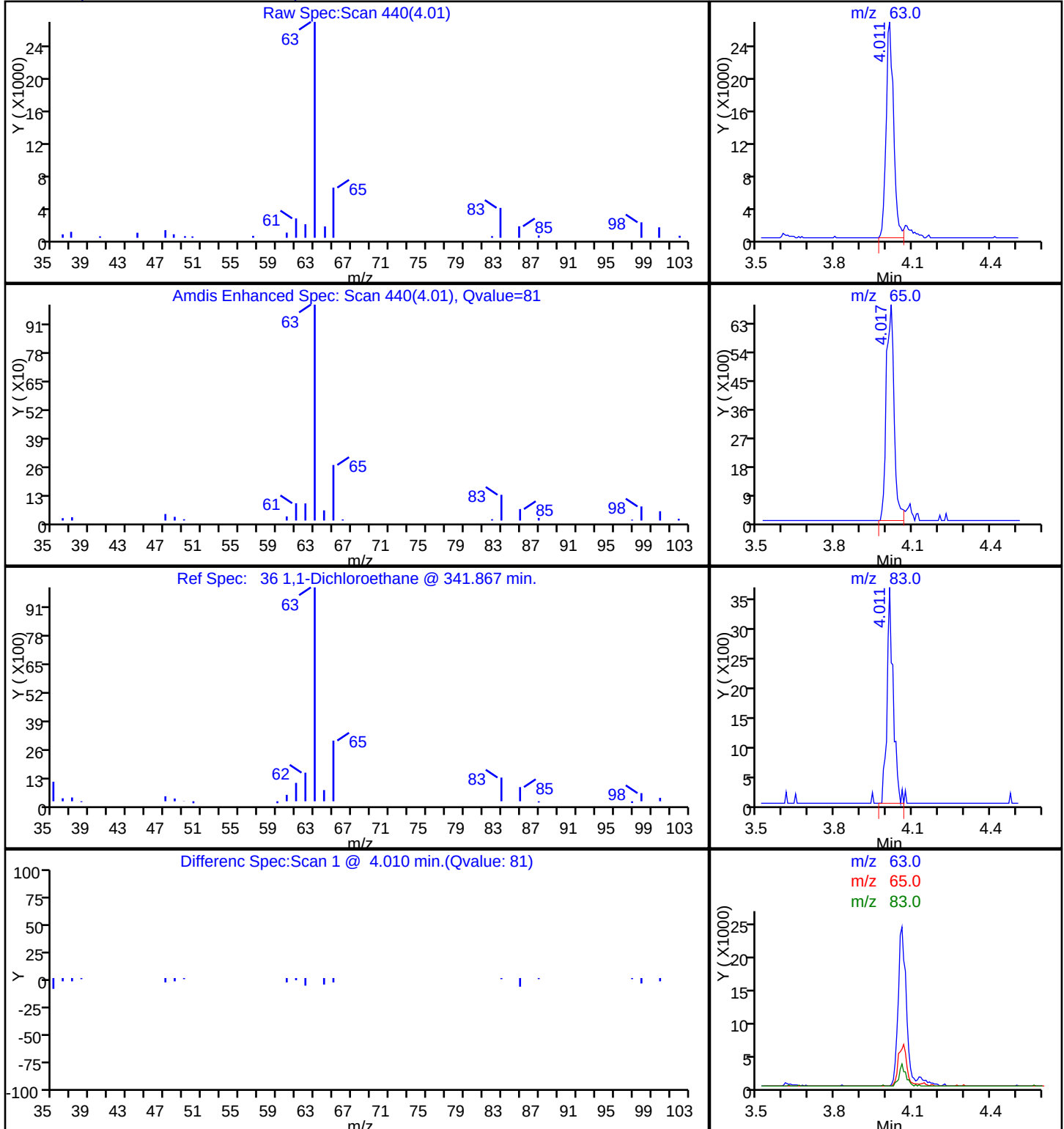
Dil. Factor: 25.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G29256.D

Injection Date: 14-Apr-2014 08:08:30

Instrument ID: HP5973G

Lims ID: 480-57666-B-20

Lab Sample ID: 480-57666-20

Client ID: MW-16D

Operator ID: gtg

ALS Bottle#: 59

Worklist Smp#: 26

Purge Vol: 5.000 mL

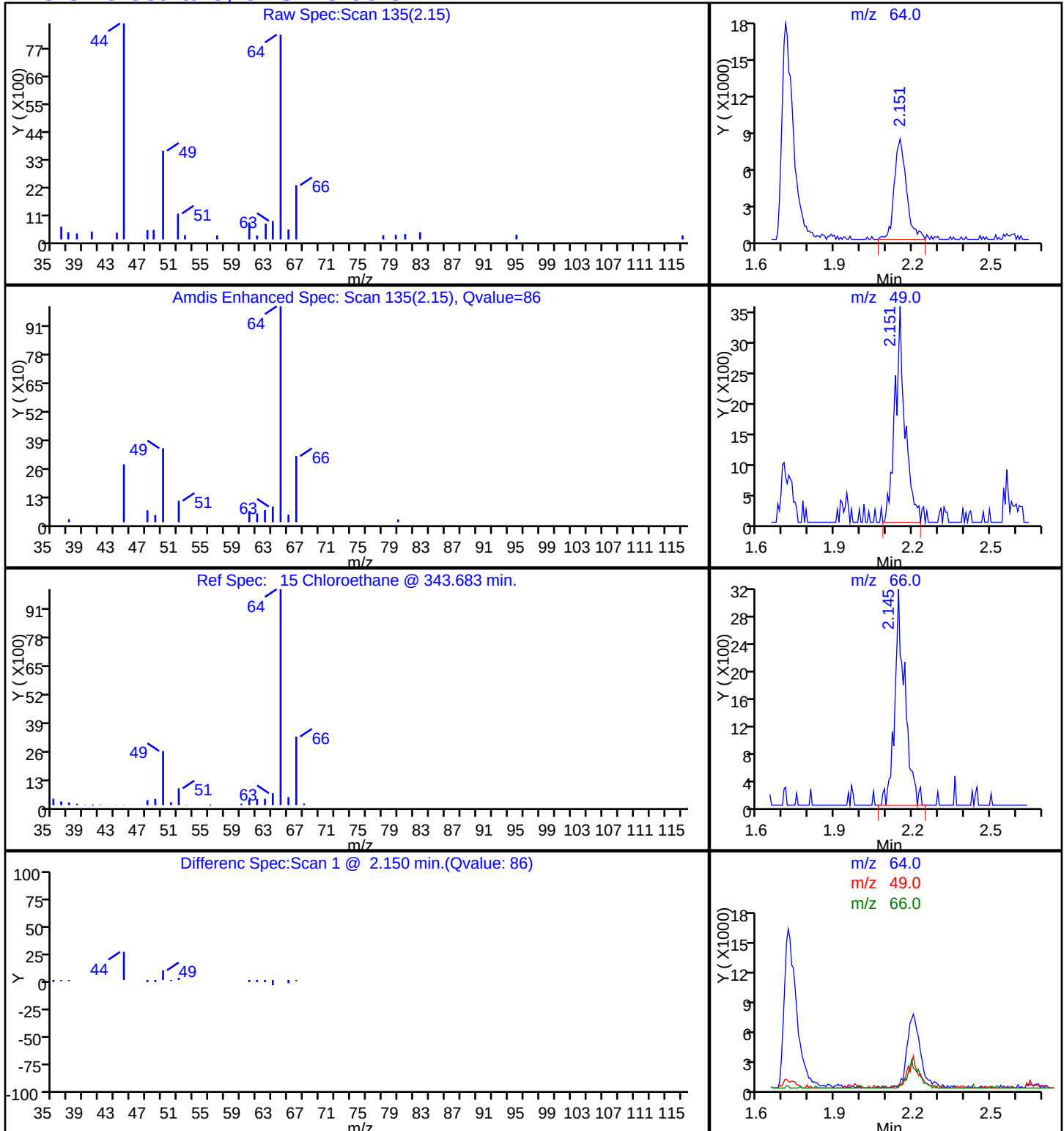
Dil. Factor: 25.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3

TestAmerica Buffalo

Data File: \\Bufchrom\\ChromData\\HP5973G\\20140413-31036.b\\G29256.D

Injection Date: 14-Apr-2014 08:08:30

Instrument ID: HP5973G

Lims ID: 480-57666-B-20

Lab Sample ID: 480-57666-20

Client ID: MW-16D

Operator ID: gtg

ALS Bottle#: 59

Worklist Smp#: 26

Purge Vol: 5.000 mL

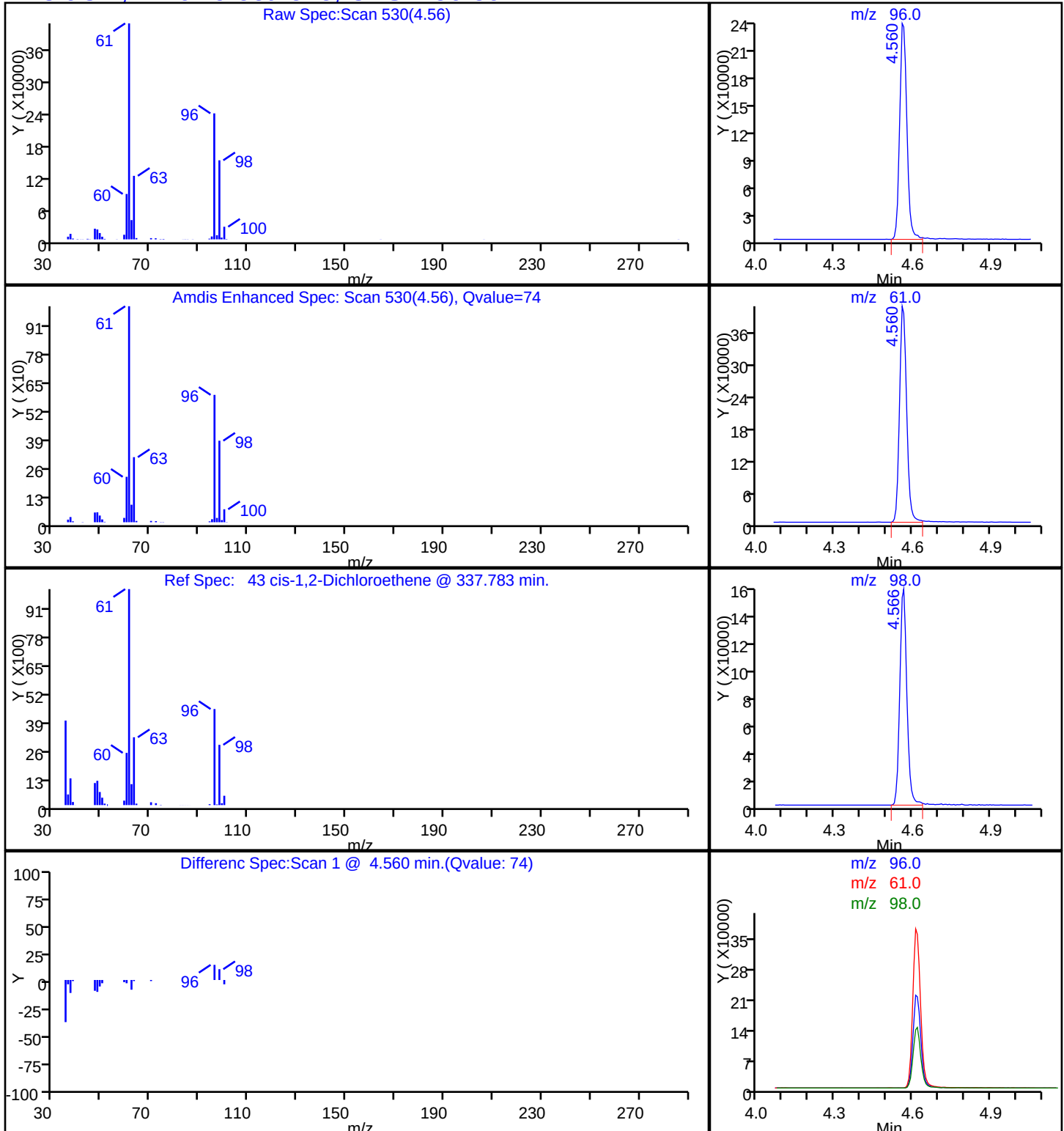
Dil. Factor: 25.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G29256.D

Injection Date: 14-Apr-2014 08:08:30

Instrument ID: HP5973G

Lims ID: 480-57666-B-20

Lab Sample ID: 480-57666-20

Client ID: MW-16D

Operator ID: gtg

ALS Bottle#: 59

Worklist Smp#: 26

Purge Vol: 5.000 mL

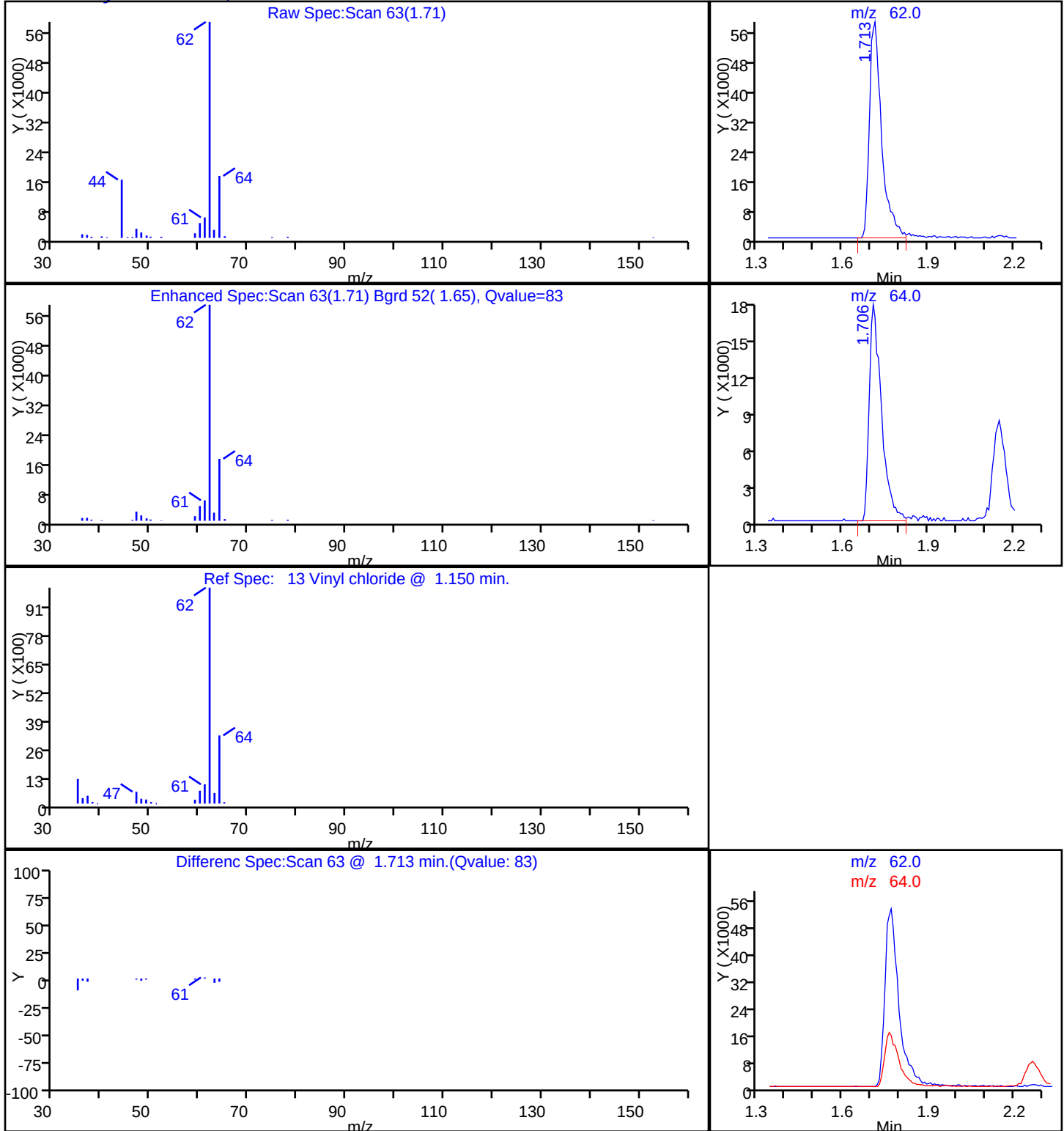
Dil. Factor: 25.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Lab Sample ID: CCVIS 480-175447/3 Calibration Date: 04/12/2014 09:28

Instrument ID: HP5973G Calib Start Date: 04/10/2014 17:45

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 04/10/2014 20:03

Lab File ID: G29193.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	0.3732	0.3845	0.1000	25.8	25.0	3.0	20.0
Chloromethane	Ave	0.6681	0.6680	0.1000	25.0	25.0	0.0	20.0
Vinyl chloride	Ave	0.4732	0.4818	0.1000	25.5	25.0	1.8	20.0
Butadiene	Ave	0.5674	0.5735		25.3	25.0	1.1	20.0
Bromomethane	Ave	0.1590	0.1558	0.1000	24.5	25.0	-2.0	20.0
Chloroethane	Ave	0.2531	0.2513	0.1000	24.8	25.0	-0.7	20.0
Dichlorofluoromethane	Lin1		0.4126		26.2	25.0	4.7	20.0
Trichlorofluoromethane	Ave	0.3664	0.4375	0.1000	29.8	25.0	19.4	20.0
Ethyl ether	Ave	0.3442	0.3283		23.8	25.0	-4.6	20.0
Acrolein	Ave	0.0753	0.0786		130	125	4.4	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3075	0.3125	0.1000	25.4	25.0	1.6	20.0
1,1-Dichloroethene	Ave	0.3435	0.3534	0.1000	25.7	25.0	2.9	20.0
Acetone	Ave	0.1562	0.1702	0.1000	136	125	9.0	20.0
Iodomethane	Ave	0.4412	0.4542		25.7	25.0	2.9	20.0
Carbon disulfide	Ave	0.8385	0.8934	0.1000	26.6	25.0	6.5	20.0
Allyl chloride	Ave	0.6890	0.7389		26.8	25.0	7.2	20.0
Methyl acetate	Ave	0.4324	0.4406	0.1000	127	125	1.9	20.0
Methylene Chloride	Ave	0.3827	0.3414	0.1000	22.3	25.0	-10.8	20.0
2-Methyl-2-propanol	Ave	0.0513	0.0529		258	250	3.0	20.0
Methyl tert-butyl ether	Ave	0.8792	0.8933	0.1000	25.4	25.0	1.6	20.0
trans-1,2-Dichloroethene	Ave	0.2841	0.2837	0.1000	25.0	25.0	-0.1	20.0
Acrylonitrile	Ave	0.2190	0.2180		249	250	-0.5	20.0
Hexane	Ave	0.6227	0.6725		27.0	25.0	8.0	20.0
1,1-Dichloroethane	Ave	0.5594	0.5685	0.2000	25.4	25.0	1.6	20.0
Vinyl acetate	Ave	0.8619	0.9364		54.3	50.0	8.6	20.0
2,2-Dichloropropane	Ave	0.1593	0.1688		26.5	25.0	6.0	20.0
cis-1,2-Dichloroethene	Ave	0.2838	0.2898	0.1000	25.5	25.0	2.1	20.0
2-Butanone (MEK)	Ave	0.2672	0.2835	0.1000	133	125	6.1	20.0
Chlorobromomethane	Ave	0.1351	0.1353		25.0	25.0	0.1	20.0
Tetrahydrofuran	Ave	0.1970	0.1959		49.7	50.0	-0.6	20.0
Chloroform	Ave	0.2943	0.2955	0.2000	25.1	25.0	0.4	20.0
1,1,1-Trichloroethane	Ave	0.2912	0.3196	0.1000	27.4	25.0	9.8	20.0
Cyclohexane	Ave	0.8596	0.8948	0.1000	26.0	25.0	4.1	20.0
1,1-Dichloropropene	Ave	0.3461	0.3629		26.2	25.0	4.8	20.0
Carbon tetrachloride	Ave	0.2557	0.3140	0.1000	30.7	25.0	22.8*	20.0
Isobutyl alcohol	Lin1		0.0301		586	625	-6.2	20.0
Benzene	Ave	1.075	1.072	0.5000	24.9	25.0	-0.3	20.0
1,2-Dichloroethane	Ave	0.4499	0.4602	0.1000	25.6	25.0	2.3	20.0
n-Heptane	Ave	0.7248	0.7801		26.9	25.0	7.6	20.0
Trichloroethene	Ave	0.2706	0.2670	0.2000	24.7	25.0	-1.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Lab Sample ID: CCVIS 480-175447/3 Calibration Date: 04/12/2014 09:28

Instrument ID: HP5973G Calib Start Date: 04/10/2014 17:45

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 04/10/2014 20:03

Lab File ID: G29193.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
Methylcyclohexane	Ave	0.5097	0.5437	0.1000	26.7	25.0	6.7	20.0
1,2-Dichloropropane	Ave	0.3310	0.3285	0.1000	24.8	25.0	-0.7	20.0
Dibromomethane	Ave	0.1556	0.1582	0.1000	25.4	25.0	1.7	20.0
1,4-Dioxane	Ave	0.0080	0.0101		630	500	26.1*	20.0
Bromodichloromethane	Ave	0.2989	0.3290	0.2000	27.5	25.0	10.1	20.0
2-Chloroethyl vinyl ether	Ave	0.2383	0.2362		24.8	25.0	-0.9	20.0
cis-1,3-Dichloropropene	Ave	0.3805	0.4123	0.2000	27.1	25.0	8.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.250	1.299	0.1000	130	125	4.0	20.0
Toluene	Ave	1.698	1.731	0.4000	25.5	25.0	1.9	20.0
trans-1,3-Dichloropropene	Ave	0.7640	0.8665	0.1000	28.4	25.0	13.4	20.0
Ethyl methacrylate	Ave	0.9031	0.9173		25.4	25.0	1.6	20.0
1,1,2-Trichloroethane	Ave	0.4828	0.4769	0.1000	24.7	25.0	-1.2	20.0
Tetrachloroethene	Ave	0.5855	0.6030	0.2000	25.7	25.0	3.0	20.0
1,3-Dichloropropane	Ave	1.084	1.092		25.2	25.0	0.8	20.0
2-Hexanone	Ave	0.8806	0.9343	0.1000	133	125	6.1	20.0
Dibromochloromethane	Lin1		0.5528	0.1000	24.4	24.5	-0.5	20.0
1,2-Dibromoethane	Ave	0.5879	0.6066		25.8	25.0	3.2	20.0
Chlorobenzene	Ave	1.829	1.845	0.5000	25.2	25.0	0.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4542	0.5254		28.9	25.0	15.7	20.0
Ethylbenzene	Ave	3.125	3.213	0.1000	25.7	25.0	2.8	20.0
m,p-Xylene	Ave	1.230	1.255	0.1000	25.5	25.0	2.0	20.0
o-Xylene	Ave	1.170	1.214	0.3000	26.0	25.0	3.8	20.0
Styrene	Ave	2.048	2.123	0.3000	25.9	25.0	3.7	20.0
Bromoform	Lin		0.2856	0.1000	25.0	25.0	-0.2	20.0
Isopropylbenzene	Ave	3.601	3.748	0.1000	26.0	25.0	4.1	20.0
Bromobenzene	Ave	0.8104	0.8106		25.0	25.0	0.0	20.0
1,1,2,2-Tetrachloroethane	Ave	0.9290	0.9428	0.3000	25.4	25.0	1.5	20.0
1,2,3-Trichloropropane	Ave	0.3265	0.3382		25.9	25.0	3.6	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3965	0.4521		28.5	25.0	14.0	20.0
N-Propylbenzene	Ave	4.242	4.354		25.7	25.0	2.6	20.0
2-Chlorotoluene	Ave	0.8537	0.8471		24.8	25.0	-0.8	20.0
1,3,5-Trimethylbenzene	Ave	3.096	3.201		25.8	25.0	3.4	20.0
4-Chlorotoluene	Ave	0.8877	0.8887		25.0	25.0	0.1	20.0
tert-Butylbenzene	Ave	0.6715	0.6974		26.0	25.0	3.9	20.0
1,2,4-Trimethylbenzene	Ave	3.195	3.290		25.7	25.0	3.0	20.0
sec-Butylbenzene	Ave	3.951	4.129		26.1	25.0	4.5	20.0
1,3-Dichlorobenzene	Ave	1.635	1.637	0.6000	25.0	25.0	0.0	20.0
4-Isopropyltoluene	Ave	3.414	3.607		26.4	25.0	5.7	20.0
1,4-Dichlorobenzene	Ave	1.700	1.678	0.5000	24.7	25.0	-1.3	20.0
n-Butylbenzene	Ave	3.075	3.255		26.5	25.0	5.9	20.0
1,2-Dichlorobenzene	Ave	1.602	1.580	0.4000	24.7	25.0	-1.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-175447/3 Calibration Date: 04/12/2014 09:28
 Instrument ID: HP5973G Calib Start Date: 04/10/2014 17:45
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 04/10/2014 20:03
 Lab File ID: G29193.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-Dibromo-3-Chloropropane	Lin1		0.2075	0.0500	24.3	25.0	-2.7	20.0
1,2,4-Trichlorobenzene	Ave	1.076	1.071	0.2000	24.9	25.0	-0.5	20.0
Hexachlorobutadiene	Ave	0.4482	0.4574		25.5	25.0	2.0	20.0
Naphthalene	Ave	3.776	3.923		26.0	25.0	3.9	20.0
1,2,3-Trichlorobenzene	Ave	1.063	1.054		24.8	25.0	-0.9	20.0
Dibromofluoromethane (Surr)	Ave	0.2135	0.2293		26.9	25.0	7.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1625	0.1690		26.0	25.0	4.0	20.0
Toluene-d8 (Surr)	Ave	2.326	2.428		26.1	25.0	4.4	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5706	0.5865		25.7	25.0	2.8	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29193.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 12-Apr-2014 09:28:30 ALS Bottle#: 23 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 480-0031015-003 =480-0031015-003
 Operator ID: RAL Instrument ID: HP5973G
 Sublist: chrom-G-8260*sub20
 Method: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 12-Apr-2014 11:34:38 Calib Date: 10-Apr-2014 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: larsonr

Date: 12-Apr-2014 11:34:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.0	98	659556	25.0	
* 2 Chlorobenzene-d5	82	8.614	8.614	0.0	88	274563	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.991	10.991	0.0	77	237637	25.0	
\$ 148 Dibromofluoromethane (Surr)	113	5.023	5.023	0.0	78	151247	26.9	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.334	5.334	0.0	0	111494	26.0	
\$ 5 Toluene-d8 (Surr)	98	7.132	7.132	0.0	94	666656	26.1	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.857	9.857	0.0	80	161033	25.7	
10 Dichlorodifluoromethane	85	1.450	1.450	0.0	87	253580	25.8	
12 Chloromethane	50	1.591	1.591	0.0	89	440604	25.0	
13 Vinyl chloride	62	1.713	1.713	0.0	84	317783	25.5	
144 Butadiene	54	1.731	1.731	0.0	91	378251	25.3	
14 Bromomethane	94	2.042	2.042	0.0	89	102764	24.5	
15 Chloroethane	64	2.139	2.139	0.0	94	165736	24.8	
16 Dichlorofluoromethane	67	2.359	2.359	0.0	81	272109	26.2	
17 Trichlorofluoromethane	101	2.383	2.383	0.0	85	288521	29.8	
18 Ethyl ether	59	2.633	2.633	0.0	95	216534	23.8	
19 Acrolein	56	2.798	2.798	0.0	95	259225	130.5	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.889	2.889	0.0	46	206101	25.4	
20 1,1-Dichloroethene	96	2.889	2.889	0.0	79	233051	25.7	
22 Acetone	43	2.956	2.956	0.0	99	561243	136.2	
23 Iodomethane	142	3.060	3.060	0.0	97	299555	25.7	
24 Carbon disulfide	76	3.103	3.103	0.0	100	589253	26.6	
26 3-Chloro-1-propene	41	3.218	3.218	0.0	87	487323	26.8	M
28 Methyl acetate	43	3.255	3.255	0.0	99	1452849	127.4	
29 Methylene Chloride	84	3.407	3.407	0.0	82	225145	22.3	
30 2-Methyl-2-propanol	59	3.517	3.517	0.0	98	348881	257.5	
31 Methyl tert-butyl ether	73	3.584	3.584	0.0	91	589170	25.4	
32 trans-1,2-Dichloroethene	96	3.596	3.596	0.0	88	187127	25.0	
33 Acrylonitrile	53	3.621	3.621	0.0	96	1437619	248.8	
34 Hexane	57	3.810	3.810	0.0	95	443519	27.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
36 1,1-Dichloroethane	63	4.005	4.005	0.0	85	374971	25.4	
38 Vinyl acetate	43	4.060	4.060	0.0	96	1235270	54.3	
42 2,2-Dichloropropane	77	4.529	4.529	0.0	90	111349	26.5	
43 cis-1,2-Dichloroethene	96	4.560	4.560	0.0	74	191121	25.5	
44 2-Butanone (MEK)	43	4.584	4.584	0.0	97	934948	132.6	
48 Chlorobromomethane	128	4.791	4.791	0.0	81	89214	25.0	
49 Tetrahydrofuran	42	4.828	4.828	0.0	95	258429	49.7	
50 Chloroform	85	4.870	4.870	0.0	83	194868	25.1	
51 1,1,1-Trichloroethane	97	4.999	4.999	0.0	91	210818	27.4	
52 Cyclohexane	56	5.023	5.023	0.0	91	590152	26.0	
53 Carbon tetrachloride	117	5.151	5.151	0.0	77	207090	30.7	
54 1,1-Dichloropropene	75	5.151	5.151	0.0	90	239366	26.2	
55 Isobutyl alcohol	43	5.334	5.334	0.0	96	496804	586.1	
56 Benzene	78	5.352	5.352	0.0	95	707015	24.9	
57 1,2-Dichloroethane	62	5.401	5.401	0.0	88	303555	25.6	
59 n-Heptane	43	5.553	5.553	0.0	96	514526	26.9	
61 Trichloroethene	95	5.968	5.968	0.0	93	176088	24.7	
62 Methylcyclohexane	83	6.102	6.102	0.0	96	358592	26.7	
63 1,2-Dichloropropane	63	6.193	6.193	0.0	91	216677	24.8	
65 Dibromomethane	93	6.328	6.328	0.0	85	104313	25.4	
66 1,4-Dioxane	88	6.340	6.340	0.0	87	55225	630.5	
67 Dichlorobromomethane	83	6.480	6.480	0.0	92	216990	27.5	
70 2-Chloroethyl vinyl ether	63	6.754	6.754	0.0	85	155767	24.8	
72 cis-1,3-Dichloropropene	75	6.901	6.901	0.0	85	271944	27.1	
73 4-Methyl-2-pentanone (MIBK)	43	7.035	7.035	0.0	98	1783299	129.9	
74 Toluene	92	7.199	7.199	0.0	97	475263	25.5	
76 trans-1,3-Dichloropropene	75	7.461	7.461	0.0	94	237901	28.4	
78 Ethyl methacrylate	69	7.510	7.510	0.0	92	251842	25.4	
79 1,1,2-Trichloroethane	83	7.650	7.650	0.0	90	130931	24.7	
80 Tetrachloroethene	166	7.742	7.742	0.0	88	165563	25.7	
81 1,3-Dichloropropane	76	7.809	7.809	0.0	96	299929	25.2	
82 2-Hexanone	43	7.876	7.876	0.0	99	1282554	132.6	
83 Chlorodibromomethane	129	8.053	8.053	0.0	89	148736	24.4	
84 Ethylene Dibromide	107	8.156	8.156	0.0	98	166560	25.8	
86 Chlorobenzene	112	8.650	8.650	0.0	93	506604	25.2	
89 Ethylbenzene	91	8.742	8.742	0.0	98	882244	25.7	
88 1,1,1,2-Tetrachloroethane	131	8.742	8.742	0.0	38	144242	28.9	
90 m-Xylene & p-Xylene	106	8.864	8.864	0.0	0	344529	25.5	
91 o-Xylene	106	9.290	9.290	0.0	97	333437	26.0	
92 Styrene	104	9.315	9.315	0.0	94	582766	25.9	
93 Bromoform	173	9.552	9.552	0.0	94	78412	25.0	
95 Isopropylbenzene	105	9.674	9.674	0.0	96	890562	26.0	
97 Bromobenzene	156	10.010	10.010	0.0	97	192619	25.0	
98 1,1,2,2-Tetrachloroethane	83	10.040	10.040	0.0	82	224042	25.4	
99 1,2,3-Trichloropropane	110	10.077	10.077	0.0	77	80366	25.9	
100 trans-1,4-Dichloro-2-butene	53	10.089	10.089	0.0	64	107429	28.5	
101 N-Propylbenzene	91	10.095	10.095	0.0	98	1034663	25.7	
102 2-Chlorotoluene	126	10.193	10.193	0.0	95	201312	24.8	
104 1,3,5-Trimethylbenzene	105	10.272	10.272	0.0	94	760564	25.8	
105 4-Chlorotoluene	126	10.302	10.302	0.0	96	211185	25.0	
106 tert-Butylbenzene	134	10.583	10.583	0.0	94	165734	26.0	
107 1,2,4-Trimethylbenzene	105	10.638	10.638	0.0	98	781828	25.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
109 sec-Butylbenzene	105	10.790	10.790	0.0	95	981265	26.1	
110 1,3-Dichlorobenzene	146	10.924	10.924	0.0	95	389005	25.0	
111 4-Isopropyltoluene	119	10.930	10.930	0.0	97	857234	26.4	
113 1,4-Dichlorobenzene	146	11.010	11.010	0.0	93	398851	24.7	
115 n-Butylbenzene	91	11.314	11.314	0.0	97	773461	26.5	
116 1,2-Dichlorobenzene	146	11.357	11.357	0.0	94	375430	24.7	
117 1,2-Dibromo-3-Chloropropane	75	12.076	12.076	0.0	72	49309	24.3	
119 1,2,4-Trichlorobenzene	180	12.765	12.765	0.0	94	254395	24.9	
120 Hexachlorobutadiene	225	12.881	12.881	0.0	93	108689	25.5	
121 Naphthalene	128	12.973	12.973	0.0	97	932314	26.0	
122 1,2,3-Trichlorobenzene	180	13.180	13.180	0.0	93	250366	24.8	
S 125 1,2-Dichloroethene, Total	1				0		50.5	
S 126 1,3-Dichloropropene, Total	1				0		55.4	
S 123 Total BTEX	1				0		127.6	
S 124 Xylenes, Total	1				0		51.5	

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29193.D

Injection Date: 12-Apr-2014 09:28:30

Instrument ID: HP5973G

Operator ID: RAL

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

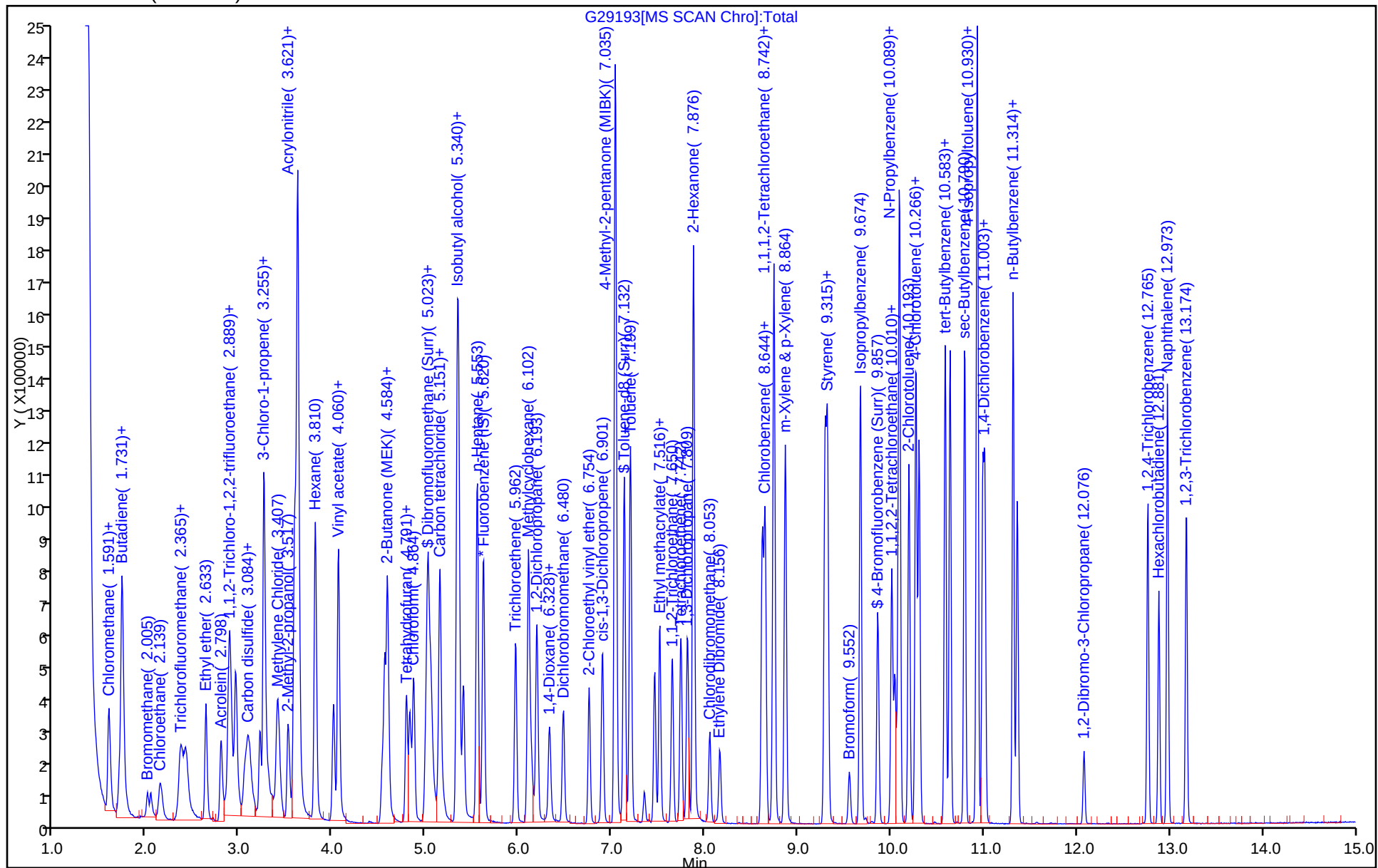
Dil. Factor: 1.0000

ALS Bottle#: 23

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29193.D

Injection Date: 12-Apr-2014 09:28:30

Instrument ID: HP5973G

Lims ID: CCVIS

Client ID:

Operator ID: RAL

ALS Bottle#:

23

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: G-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

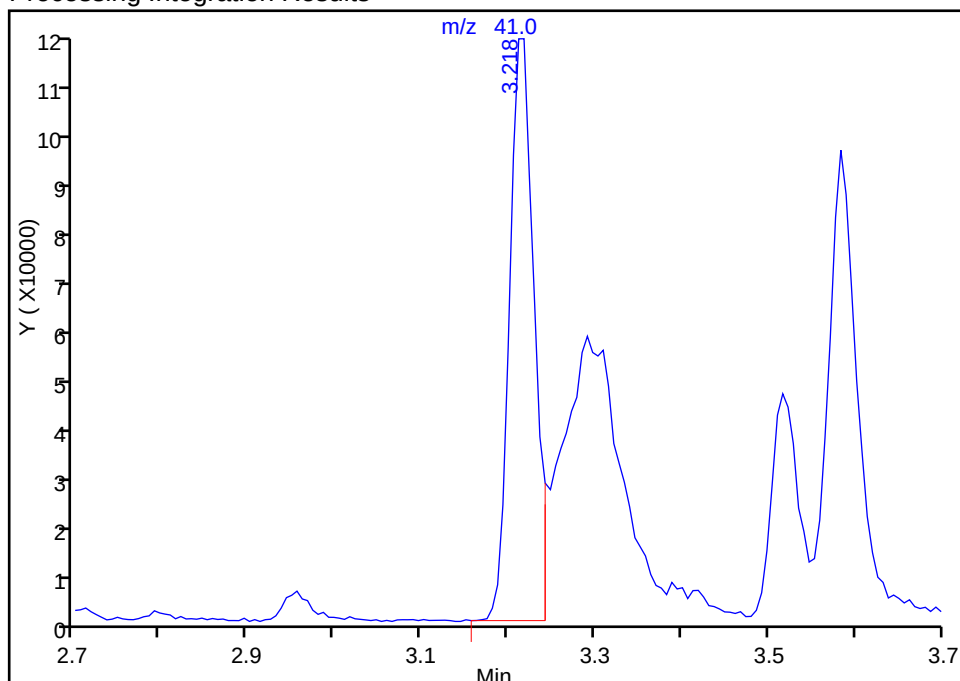
Detector

MS SCAN

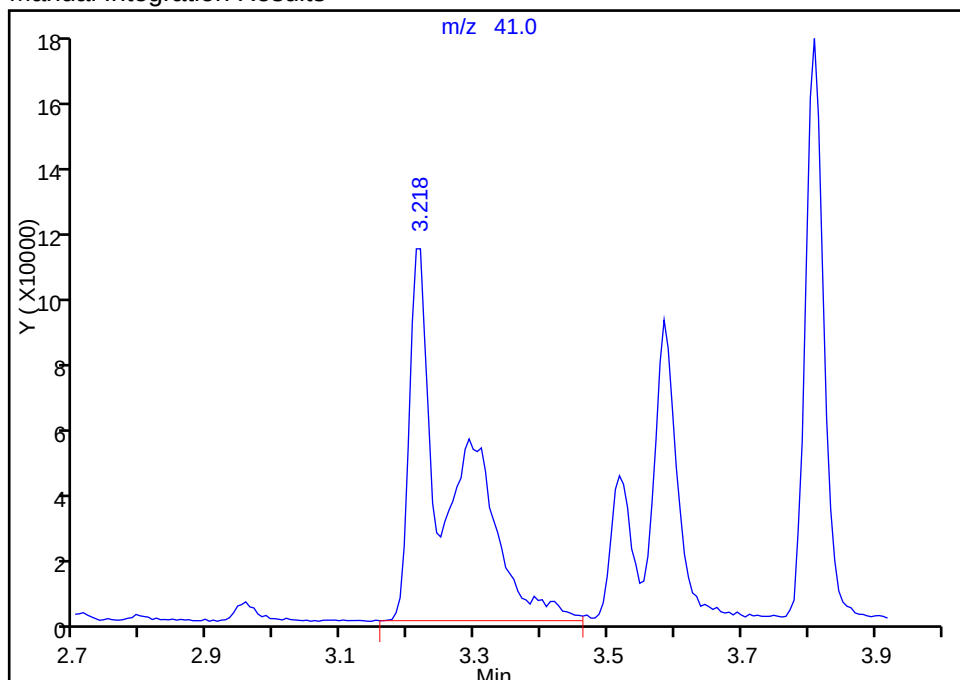
26 3-Chloro-1-propene, CAS: 107-05-1

RT: 3.22
Response: 218343
Amount: 12.012025

Processing Integration Results

RT: 3.22
Response: 487323
Amount: 26.809818

Manual Integration Results



Reviewer: larsonr, 12-Apr-2014 11:34:38

Audit Action: Manually Integrated

Audit Reason: Split Peak

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Lab Sample ID: CCVIS 480-175488/3 Calibration Date: 04/13/2014 21:23

Instrument ID: HP5973G Calib Start Date: 04/10/2014 17:45

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 04/10/2014 20:03

Lab File ID: G29233.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	0.3732	0.3330	0.1000	22.3	25.0	-10.8	20.0
Chloromethane	Ave	0.6681	0.6117	0.1000	22.9	25.0	-8.4	20.0
Vinyl chloride	Ave	0.4732	0.4277	0.1000	22.6	25.0	-9.6	20.0
Butadiene	Ave	0.5674	0.5119		22.6	25.0	-9.8	20.0
Bromomethane	Ave	0.1590	0.1150	0.1000	18.1	25.0	-27.7*	20.0
Chloroethane	Ave	0.2531	0.2344	0.1000	23.2	25.0	-7.4	20.0
Dichlorofluoromethane	Lin1		0.3665		23.3	25.0	-6.6	20.0
Trichlorofluoromethane	Ave	0.3664	0.4151	0.1000	28.3	25.0	13.3	20.0
Ethyl ether	Ave	0.3442	0.3028		22.0	25.0	-12.0	20.0
Acrolein	Ave	0.0753	0.0655		109	125	-13.0	20.0
1,1-Dichloroethene	Ave	0.3435	0.3157	0.1000	23.0	25.0	-8.1	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3075	0.2854	0.1000	23.2	25.0	-7.2	20.0
Acetone	Ave	0.1562	0.1519	0.1000	122	125	-2.7	20.0
Iodomethane	Ave	0.4412	0.4135		23.4	25.0	-6.3	20.0
Carbon disulfide	Ave	0.8385	0.7891	0.1000	23.5	25.0	-5.9	20.0
Allyl chloride	Ave	0.6890	0.6311		22.9	25.0	-8.4	20.0
Methyl acetate	Ave	0.4324	0.4015	0.1000	116	125	-7.2	20.0
Methylene Chloride	Ave	0.3827	0.3121	0.1000	20.4	25.0	-18.5	20.0
2-Methyl-2-propanol	Ave	0.0513	0.0481		234	250	-6.3	20.0
Methyl tert-butyl ether	Ave	0.8792	0.8017	0.1000	22.8	25.0	-8.8	20.0
trans-1,2-Dichloroethene	Ave	0.2841	0.2690	0.1000	23.7	25.0	-5.3	20.0
Acrylonitrile	Ave	0.2190	0.1989		227	250	-9.2	20.0
Hexane	Ave	0.6227	0.5614		22.5	25.0	-9.9	20.0
1,1-Dichloroethane	Ave	0.5594	0.5086	0.2000	22.7	25.0	-9.1	20.0
Vinyl acetate	Ave	0.8619	0.8453		49.0	50.0	-1.9	20.0
2,2-Dichloropropane	Ave	0.1593	0.1508		23.7	25.0	-5.3	20.0
cis-1,2-Dichloroethene	Ave	0.2838	0.2568	0.1000	22.6	25.0	-9.5	20.0
2-Butanone (MEK)	Ave	0.2672	0.2521	0.1000	118	125	-5.6	20.0
Chlorobromomethane	Ave	0.1351	0.1240		23.0	25.0	-8.2	20.0
Tetrahydrofuran	Ave	0.1970	0.1765		44.8	50.0	-10.4	20.0
Chloroform	Ave	0.2943	0.2723	0.2000	23.1	25.0	-7.5	20.0
1,1,1-Trichloroethane	Ave	0.2912	0.2905	0.1000	24.9	25.0	-0.3	20.0
Cyclohexane	Ave	0.8596	0.7531	0.1000	21.9	25.0	-12.4	20.0
Carbon tetrachloride	Ave	0.2557	0.2705	0.1000	26.4	25.0	5.8	20.0
1,1-Dichloropropene	Ave	0.3461	0.3182		23.0	25.0	-8.1	20.0
Isobutyl alcohol	Lin1		0.0271		529	625	-15.3	20.0
Benzene	Ave	1.075	0.9607	0.5000	22.3	25.0	-10.6	20.0
1,2-Dichloroethane	Ave	0.4499	0.4185	0.1000	23.3	25.0	-7.0	20.0
n-Heptane	Ave	0.7248	0.6810		23.5	25.0	-6.0	20.0
Trichloroethene	Ave	0.2706	0.2434	0.2000	22.5	25.0	-10.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Lab Sample ID: CCVIS 480-175488/3 Calibration Date: 04/13/2014 21:23

Instrument ID: HP5973G Calib Start Date: 04/10/2014 17:45

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 04/10/2014 20:03

Lab File ID: G29233.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
Methylcyclohexane	Ave	0.5097	0.4379	0.1000	21.5	25.0	-14.1	20.0
1,2-Dichloropropane	Ave	0.3310	0.2992	0.1000	22.6	25.0	-9.6	20.0
Dibromomethane	Ave	0.1556	0.1445	0.1000	23.2	25.0	-7.1	20.0
1,4-Dioxane	Ave	0.0080	0.0078		490	500	-2.1	20.0
Bromodichloromethane	Ave	0.2989	0.3023	0.2000	25.3	25.0	1.1	20.0
2-Chloroethyl vinyl ether	Ave	0.2383	0.2138		22.4	25.0	-10.3	20.0
cis-1,3-Dichloropropene	Ave	0.3805	0.3709	0.2000	24.4	25.0	-2.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.250	1.201	0.1000	120	125	-3.9	20.0
Toluene	Ave	1.698	1.598	0.4000	23.5	25.0	-5.9	20.0
trans-1,3-Dichloropropene	Ave	0.7640	0.8141	0.1000	26.6	25.0	6.5	20.0
Ethyl methacrylate	Ave	0.9031	0.8403		23.3	25.0	-7.0	20.0
1,1,2-Trichloroethane	Ave	0.4828	0.4397	0.1000	22.8	25.0	-8.9	20.0
Tetrachloroethene	Ave	0.5855	0.5410	0.2000	23.1	25.0	-7.6	20.0
1,3-Dichloropropane	Ave	1.084	1.000		23.1	25.0	-7.7	20.0
2-Hexanone	Ave	0.8806	0.8497	0.1000	121	125	-3.5	20.0
Dibromochloromethane	Lin1		0.5213	0.1000	23.0	24.5	-6.0	20.0
1,2-Dibromoethane	Ave	0.5879	0.5560		23.6	25.0	-5.4	20.0
Chlorobenzene	Ave	1.829	1.721	0.5000	23.5	25.0	-5.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4542	0.5015		27.6	25.0	10.4	20.0
Ethylbenzene	Ave	3.125	2.915	0.1000	23.3	25.0	-6.7	20.0
m,p-Xylene	Ave	1.230	1.161	0.1000	23.6	25.0	-5.6	20.0
o-Xylene	Ave	1.170	1.134	0.3000	24.2	25.0	-3.0	20.0
Styrene	Ave	2.048	1.942	0.3000	23.7	25.0	-5.2	20.0
Bromoform	Lin		0.2626	0.1000	23.2	25.0	-7.0	20.0
Isopropylbenzene	Ave	3.601	3.457	0.1000	24.0	25.0	-4.0	20.0
Bromobenzene	Ave	0.8104	0.7432		22.9	25.0	-8.3	20.0
1,1,2,2-Tetrachloroethane	Ave	0.9290	0.8691	0.3000	23.4	25.0	-6.4	20.0
1,2,3-Trichloropropane	Ave	0.3265	0.3004		23.0	25.0	-8.0	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3965	0.3844		24.2	25.0	-3.1	20.0
N-Propylbenzene	Ave	4.242	3.981		23.5	25.0	-6.2	20.0
2-Chlorotoluene	Ave	0.8537	0.7762		22.7	25.0	-9.1	20.0
1,3,5-Trimethylbenzene	Ave	3.096	2.934		23.7	25.0	-5.2	20.0
4-Chlorotoluene	Ave	0.8877	0.8346		23.5	25.0	-6.0	20.0
tert-Butylbenzene	Ave	0.6715	0.6522		24.3	25.0	-2.9	20.0
1,2,4-Trimethylbenzene	Ave	3.195	3.066		24.0	25.0	-4.0	20.0
sec-Butylbenzene	Ave	3.951	3.806		24.1	25.0	-3.7	20.0
1,3-Dichlorobenzene	Ave	1.635	1.523	0.6000	23.3	25.0	-6.9	20.0
4-Isopropyltoluene	Ave	3.414	3.338		24.4	25.0	-2.2	20.0
1,4-Dichlorobenzene	Ave	1.700	1.571	0.5000	23.1	25.0	-7.6	20.0
n-Butylbenzene	Ave	3.075	3.047		24.8	25.0	-0.9	20.0
1,2-Dichlorobenzene	Ave	1.602	1.504	0.4000	23.5	25.0	-6.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1
SDG No.: _____
Lab Sample ID: CCVIS 480-175488/3 Calibration Date: 04/13/2014 21:23
Instrument ID: HP5973G Calib Start Date: 04/10/2014 17:45
GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 04/10/2014 20:03
Lab File ID: G29233.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-Dibromo-3-Chloropropane	Lin1		0.2037	0.0500	23.9	25.0	-4.4	20.0
1,2,4-Trichlorobenzene	Ave	1.076	1.048	0.2000	24.4	25.0	-2.6	20.0
Hexachlorobutadiene	Ave	0.4482	0.4283		23.9	25.0	-4.5	20.0
Naphthalene	Ave	3.776	3.718		24.6	25.0	-1.5	20.0
1,2,3-Trichlorobenzene	Ave	1.063	1.052		24.7	25.0	-1.1	20.0
Dibromofluoromethane (Surr)	Ave	0.2135	0.2240		26.2	25.0	4.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1625	0.1659		25.5	25.0	2.1	20.0
Toluene-d8 (Surr)	Ave	2.326	2.348		25.2	25.0	0.9	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5706	0.5735		25.1	25.0	0.5	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G29233.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 13-Apr-2014 21:23:30 ALS Bottle#: 36 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 480-0031036-003 =480-0031036-003
 Operator ID: gtg Instrument ID: HP5973G
 Sublist: chrom-G-8260*sub20
 Method: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 13-Apr-2014 21:47:42 Calib Date: 10-Apr-2014 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: goliszekg

Date: 13-Apr-2014 21:47:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.0	98	661277	25.0	
* 2 Chlorobenzene-d5	82	8.614	8.614	0.0	88	272621	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.985	10.985	0.0	77	238315	25.0	
\$ 148 Dibromofluoromethane (Surr)	113	5.023	5.023	0.0	79	148120	26.2	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.334	5.334	0.0	0	109685	25.5	
\$ 5 Toluene-d8 (Surr)	98	7.132	7.132	0.0	94	640039	25.2	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.863	9.863	0.0	82	156358	25.1	
10 Dichlorodifluoromethane	85	1.444	1.444	0.0	87	220219	22.3	
12 Chloromethane	50	1.591	1.591	0.0	89	404472	22.9	
13 Vinyl chloride	62	1.713	1.713	0.0	83	282836	22.6	
144 Butadiene	54	1.737	1.737	0.0	90	338481	22.6	
14 Bromomethane	94	2.011	2.011	0.0	89	76058	18.1	M
15 Chloroethane	64	2.152	2.152	0.0	92	155003	23.2	
16 Dichlorofluoromethane	67	2.359	2.359	0.0	82	242327	23.3	
17 Trichlorofluoromethane	101	2.383	2.383	0.0	86	274496	28.3	
18 Ethyl ether	59	2.633	2.633	0.0	97	200221	22.0	
19 Acrolein	56	2.798	2.798	0.0	94	216647	108.7	
20 1,1-Dichloroethene	96	2.889	2.889	0.0	85	208757	23.0	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.895	2.895	0.0	47	188733	23.2	
22 Acetone	43	2.956	2.956	0.0	99	502129	121.6	
23 Iodomethane	142	3.060	3.060	0.0	98	273466	23.4	
24 Carbon disulfide	76	3.097	3.097	0.0	100	521837	23.5	
26 3-Chloro-1-propene	41	3.218	3.218	0.0	82	417310	22.9	
28 Methyl acetate	43	3.255	3.255	0.0	98	1327452	116.1	
29 Methylene Chloride	84	3.407	3.407	0.0	82	206355	20.4	
30 2-Methyl-2-propanol	59	3.517	3.517	0.0	97	317996	234.1	
31 Methyl tert-butyl ether	73	3.584	3.584	0.0	90	530127	22.8	
32 trans-1,2-Dichloroethene	96	3.596	3.596	0.0	88	177885	23.7	
33 Acrylonitrile	53	3.621	3.621	0.0	97	1315237	227.0	
34 Hexane	57	3.810	3.810	0.0	96	371205	22.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
36 1,1-Dichloroethane	63	4.005	4.005	0.0	84	336319	22.7	
38 Vinyl acetate	43	4.060	4.060	0.0	96	1117953	49.0	
42 2,2-Dichloropropane	77	4.535	4.535	0.0	86	99719	23.7	
43 cis-1,2-Dichloroethene	96	4.560	4.560	0.0	73	169786	22.6	
44 2-Butanone (MEK)	43	4.590	4.590	0.0	97	833639	118.0	
48 Chlorobromomethane	128	4.791	4.791	0.0	82	82023	23.0	
49 Tetrahydrofuran	42	4.828	4.828	0.0	95	233384	44.8	
50 Chloroform	85	4.871	4.871	0.0	83	180089	23.1	
51 1,1,1-Trichloroethane	97	4.999	4.999	0.0	91	192066	24.9	
52 Cyclohexane	56	5.029	5.029	0.0	93	498030	21.9	
53 Carbon tetrachloride	117	5.145	5.145	0.0	75	178847	26.4	
54 1,1-Dichloropropene	75	5.151	5.151	0.0	88	210386	23.0	
55 Isobutyl alcohol	43	5.340	5.340	0.0	93	447850	529.3	
56 Benzene	78	5.352	5.352	0.0	93	635311	22.3	
57 1,2-Dichloroethane	62	5.401	5.401	0.0	88	276744	23.3	
59 n-Heptane	43	5.553	5.553	0.0	95	450311	23.5	
61 Trichloroethene	95	5.962	5.962	0.0	93	160921	22.5	
62 Methylcyclohexane	83	6.102	6.102	0.0	95	289587	21.5	
63 1,2-Dichloropropane	63	6.193	6.193	0.0	90	197882	22.6	
65 Dibromomethane	93	6.328	6.328	0.0	90	95582	23.2	
66 1,4-Dioxane	88	6.340	6.340	0.0	87	42580	489.6	
67 Dichlorobromomethane	83	6.480	6.480	0.0	92	199906	25.3	
70 2-Chloroethyl vinyl ether	63	6.754	6.754	0.0	85	141388	22.4	
72 cis-1,3-Dichloropropene	75	6.901	6.901	0.0	86	245269	24.4	
73 4-Methyl-2-pentanone (MIBK)	43	7.035	7.035	0.0	98	1637058	120.1	
74 Toluene	92	7.199	7.199	0.0	97	435541	23.5	
76 trans-1,3-Dichloropropene	75	7.462	7.462	0.0	94	221931	26.6	
78 Ethyl methacrylate	69	7.516	7.516	0.0	92	229077	23.3	
79 1,1,2-Trichloroethane	83	7.651	7.651	0.0	89	119863	22.8	
80 Tetrachloroethene	166	7.742	7.742	0.0	88	147492	23.1	
81 1,3-Dichloropropane	76	7.809	7.809	0.0	94	272684	23.1	
82 2-Hexanone	43	7.876	7.876	0.0	99	1158241	120.6	
83 Chlorodibromomethane	129	8.053	8.053	0.0	89	139274	23.0	
84 Ethylene Dibromide	107	8.163	8.163	0.0	99	151563	23.6	
86 Chlorobenzene	112	8.650	8.650	0.0	93	469068	23.5	
89 Ethylbenzene	91	8.742	8.742	0.0	98	794681	23.3	
88 1,1,1,2-Tetrachloroethane	131	8.742	8.742	0.0	86	136727	27.6	
90 m-Xylene & p-Xylene	106	8.864	8.864	0.0	0	316487	23.6	
91 o-Xylene	106	9.290	9.290	0.0	97	309250	24.2	
92 Styrene	104	9.321	9.321	0.0	94	529297	23.7	
93 Bromoform	173	9.553	9.553	0.0	94	71598	23.2	
95 Isopropylbenzene	105	9.674	9.674	0.0	96	823856	24.0	
97 Bromobenzene	156	10.010	10.010	0.0	97	177104	22.9	
98 1,1,2,2-Tetrachloroethane	83	10.040	10.040	0.0	84	207115	23.4	
99 1,2,3-Trichloropropane	110	10.077	10.077	0.0	83	71585	23.0	
100 trans-1,4-Dichloro-2-butene	53	10.089	10.089	0.0	68	91611	24.2	
101 N-Propylbenzene	91	10.095	10.095	0.0	97	948831	23.5	
102 2-Chlorotoluene	126	10.193	10.193	0.0	95	184968	22.7	
104 1,3,5-Trimethylbenzene	105	10.272	10.272	0.0	92	699307	23.7	
105 4-Chlorotoluene	126	10.302	10.302	0.0	96	198890	23.5	
106 tert-Butylbenzene	134	10.589	10.589	0.0	94	155437	24.3	
107 1,2,4-Trimethylbenzene	105	10.638	10.638	0.0	97	730711	24.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
109 sec-Butylbenzene	105	10.790	10.790	0.0	95	907007	24.1	
110 1,3-Dichlorobenzene	146	10.924	10.924	0.0	95	362886	23.3	
111 4-Isopropyltoluene	119	10.930	10.930	0.0	95	795563	24.4	
113 1,4-Dichlorobenzene	146	11.010	11.010	0.0	92	374437	23.1	
115 n-Butylbenzene	91	11.314	11.314	0.0	98	726211	24.8	
116 1,2-Dichlorobenzene	146	11.363	11.363	0.0	94	358520	23.5	
117 1,2-Dibromo-3-Chloropropane	75	12.076	12.076	0.0	73	48538	23.9	
119 1,2,4-Trichlorobenzene	180	12.765	12.765	0.0	93	249831	24.4	
120 Hexachlorobutadiene	225	12.881	12.881	0.0	93	102064	23.9	
121 Naphthalene	128	12.973	12.973	0.0	97	886037	24.6	
122 1,2,3-Trichlorobenzene	180	13.180	13.180	0.0	94	250628	24.7	
S 125 1,2-Dichloroethene, Total	1				0		46.3	
S 126 1,3-Dichloropropene, Total	1				0		51.0	
S 123 Total BTEX	1				0		117.0	
S 124 Xylenes, Total	1				0		47.8	

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G29233.D

Injection Date: 13-Apr-2014 21:23:30

Instrument ID: HP5973G

Operator ID: gtg

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

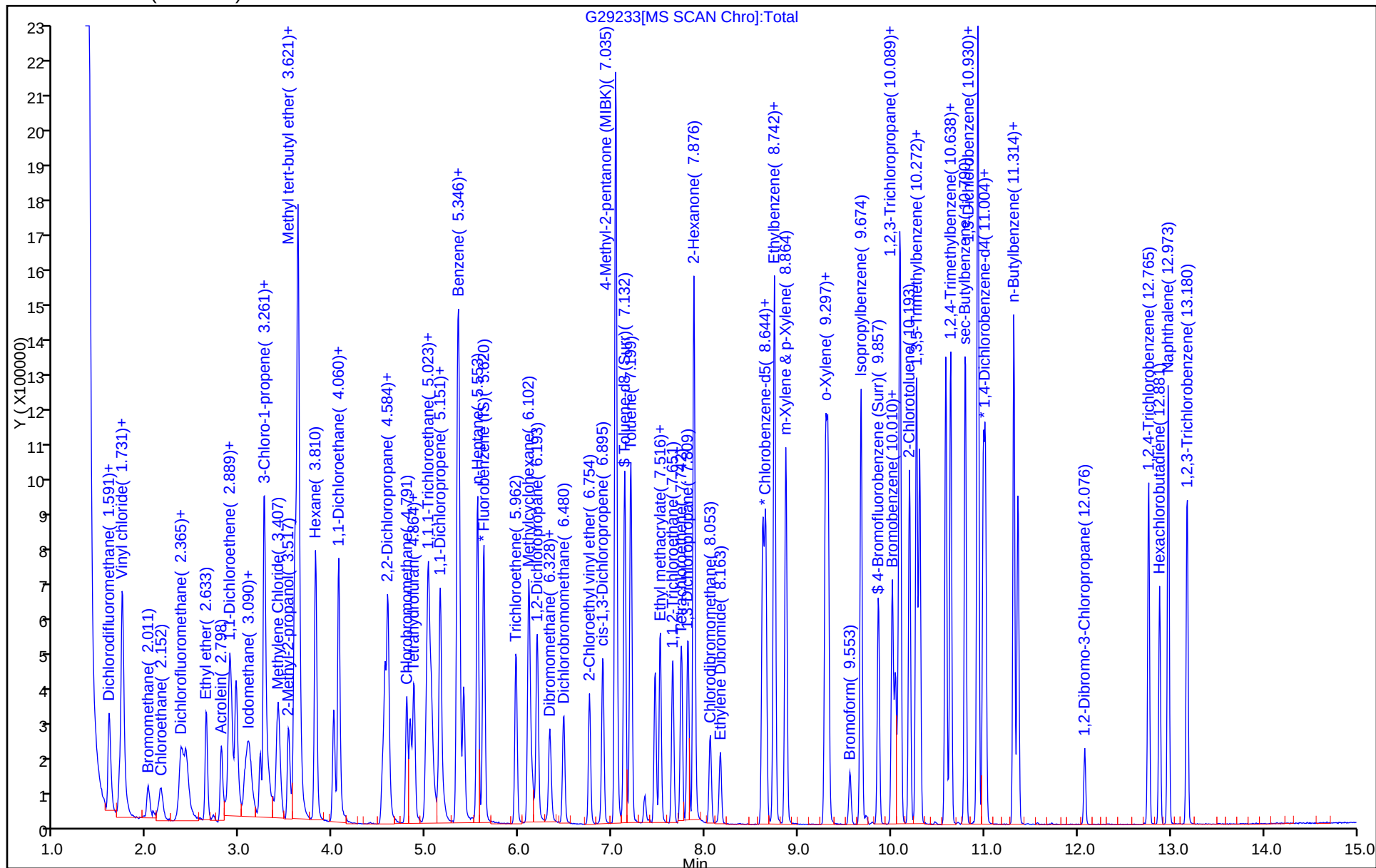
Dil. Factor: 1.0000

ALS Bottle#: 36

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G29233.D

Injection Date: 13-Apr-2014 21:23:30

Instrument ID: HP5973G

Lims ID: CCVIS

Client ID:

Operator ID: gtg

ALS Bottle#:

36

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: G-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

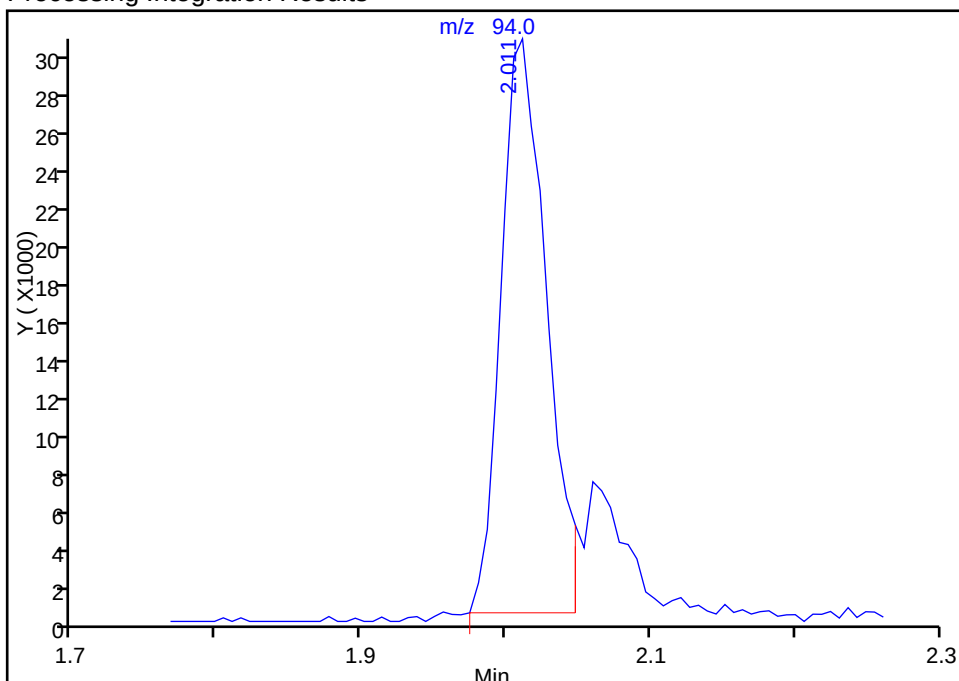
Detector

MS SCAN

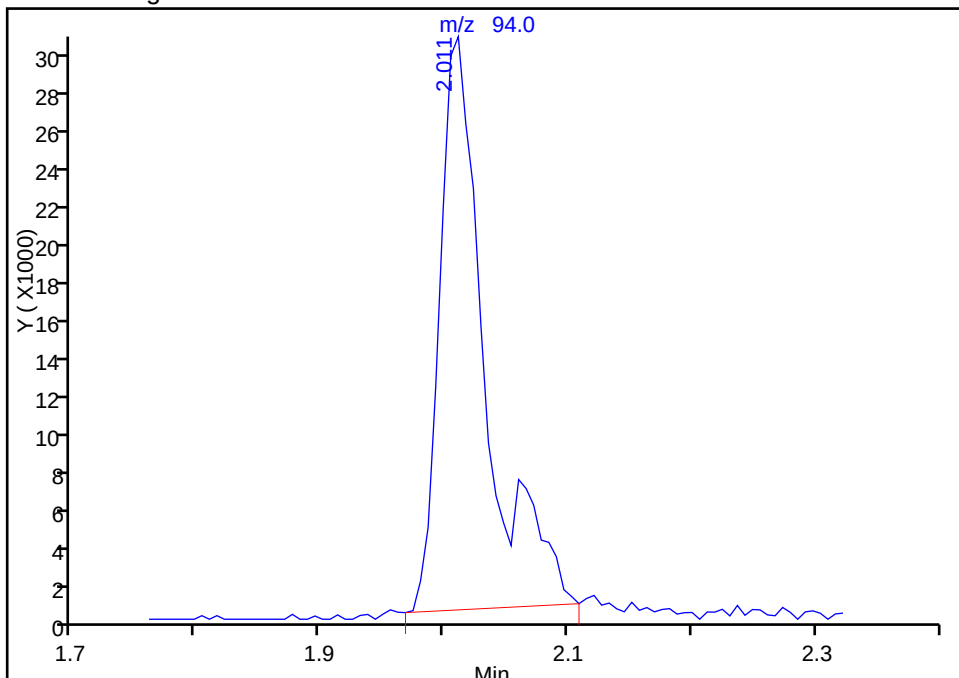
14 Bromomethane, CAS: 74-83-9

RT: 2.01
Response: 64783
Amount: 15.404623

Processing Integration Results

RT: 2.01
Response: 76058
Amount: 18.085684

Manual Integration Results



Reviewer: goliszekg, 13-Apr-2014 21:47:42

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29192.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 12-Apr-2014 09:03:30 ALS Bottle#: 22 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0031015-002 =480-0031015-002
Operator ID: RAL Instrument ID: HP5973G
Method: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 12-Apr-2014 11:33:40 Calib Date: 10-Apr-2014 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D
Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: larsonr

Date: 12-Apr-2014 11:33:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags

\$ 35 BFB

95 3.936 3.936 0.0 0 130906 NR

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29192.D

Injection Date: 12-Apr-2014 09:03:30

Instrument ID: HP5973G

Lims ID: BFB

Client ID:

Operator ID: RAL

ALS Bottle#: 22 Worklist Smp#: 2

Purge Vol: 5.000 mL

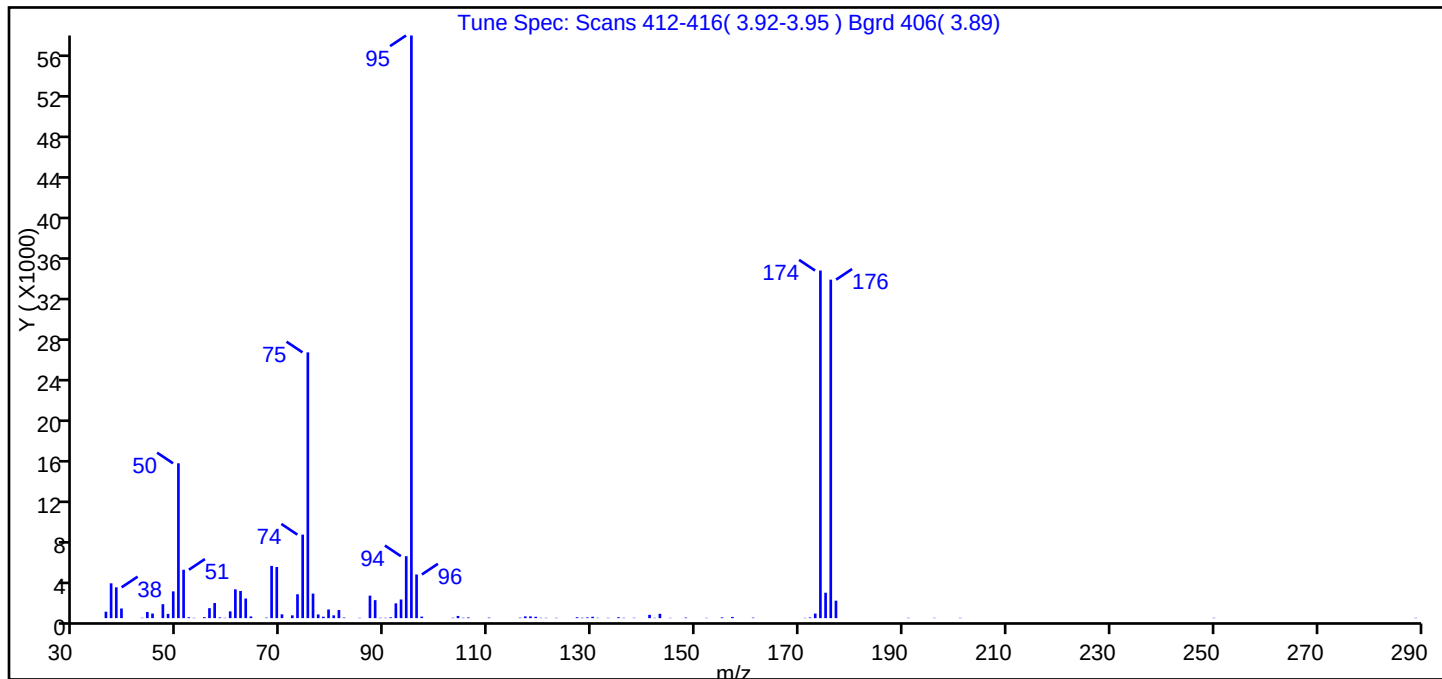
Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Tune Method: BFB Method 8260

\$ 35 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	26.60
75	30.00 - 60.00% of mass 95	45.60
96	5.00 - 9.00% of mass 95	7.50
173	Less than 2.00% of mass 174	0.80 (1.30)
174	50.00 - 120.00% of mass 95	59.70
175	5.00 - 9.00% of mass 174	4.40 (7.30)
176	95.00 - 101.00% of mass 174	58.10 (97.40)
177	5.00 - 9.00% of mass 176	3.00 (5.20)

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29192.D\G-8260.rslt\spectra.d
Injection Date: 12-Apr-2014 09:03:30
Spectrum: Tune Spec: Scans 412-416(3.92-3.95) Bgrd 406(3.89)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 93

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	634	67.00	51	95.00	57192	141.00	324
37.00	3418	68.00	5127	96.00	4287	142.00	32
38.00	3024	69.00	5018	97.00	151	143.00	424
39.00	948	70.00	373	103.00	39	145.00	30
43.00	36	72.00	272	104.00	216	148.00	58
44.00	606	73.00	2343	105.00	39	152.00	30
45.00	452	74.00	8200	106.00	69	155.00	74
47.00	1371	75.00	26088	110.00	52	157.00	118
48.00	418	76.00	2411	116.00	46	161.00	50
49.00	2630	77.00	364	117.00	170	171.00	30
50.00	15196	78.00	139	118.00	170	172.00	66
51.00	4750	79.00	851	119.00	133	173.00	449
52.00	90	80.00	275	120.00	31	174.00	34120
53.00	32	81.00	795	121.00	32	175.00	2495
55.00	97	82.00	57	123.00	33	176.00	33224
56.00	979	85.00	33	127.00	90	177.00	1715
57.00	1483	87.00	2210	128.00	43	191.00	34
58.00	73	88.00	1767	129.00	72	196.00	32
59.00	30	89.00	36	130.00	134	201.00	34
60.00	664	90.00	33	131.00	32	250.00	33
61.00	2827	91.00	79	133.00	36	289.00	34
62.00	2666	92.00	1450	135.00	88		
63.00	1927	93.00	1833	136.00	37		
64.00	166	94.00	6081	138.00	36		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G29232.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 13-Apr-2014 20:50:30 ALS Bottle#: 35 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0031036-002 =480-0031036-002
Operator ID: gtg Instrument ID: HP5973G
Method: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 13-Apr-2014 21:07:40 Calib Date: 10-Apr-2014 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D
Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: goliszekg

Date: 13-Apr-2014 21:07:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags

\$ 35 BFB

95 3.954 3.954 0.0 0 239958 NR

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G29232.D

Injection Date: 13-Apr-2014 20:50:30

Instrument ID: HP5973G

Lims ID: BFB

Client ID:

Operator ID: gtg

ALS Bottle#: 35 Worklist Smp#: 2

Purge Vol: 5.000 mL

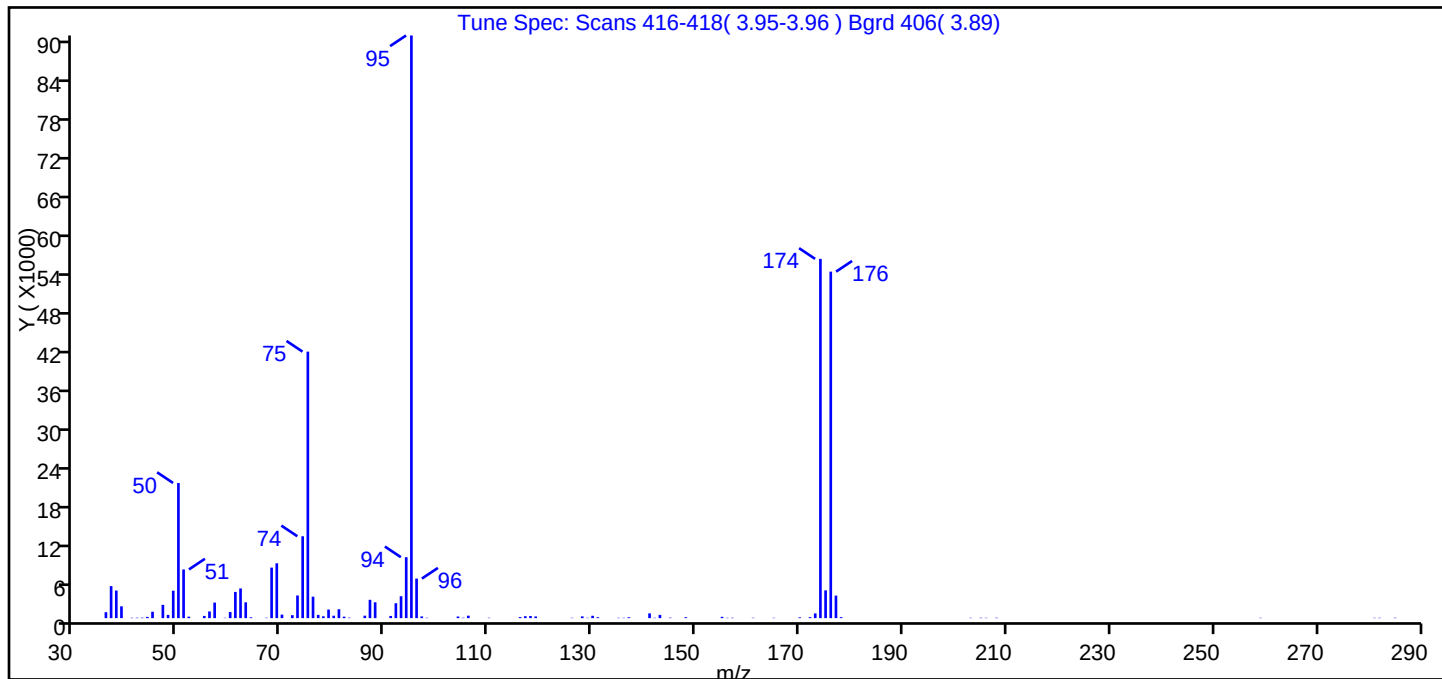
Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Tune Method: BFB Method 8260

\$ 35 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.20
75	30.00 - 60.00% of mass 95	45.70
96	5.00 - 9.00% of mass 95	6.80
173	Less than 2.00% of mass 174	0.80 (1.30)
174	50.00 - 120.00% of mass 95	61.70
175	5.00 - 9.00% of mass 174	4.80 (7.70)
176	95.00 - 101.00% of mass 174	59.50 (96.40)
177	5.00 - 9.00% of mass 176	3.90 (6.50)

Data File: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G29232.D\G-8260.rslt\spectra.d
Injection Date: 13-Apr-2014 20:50:30
Spectrum: Tune Spec: Scans 416-418(3.95-3.96) Bgrd 406(3.89)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 93

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	932	67.00	63	96.00	6172	155.00	205
37.00	4998	68.00	7884	97.00	267	156.00	51
38.00	4312	69.00	8560	98.00	57	157.00	66
39.00	1844	70.00	553	104.00	253	161.00	60
41.00	60	72.00	465	105.00	66	165.00	55
42.00	70	73.00	3537	106.00	384	170.00	121
43.00	79	74.00	12774	110.00	61	172.00	149
44.00	197	75.00	41576	116.00	164	173.00	740
45.00	998	76.00	3351	117.00	299	174.00	56048
47.00	2073	77.00	505	118.00	329	175.00	4334
48.00	503	78.00	286	119.00	262	176.00	54056
49.00	4282	79.00	1340	126.00	59	177.00	3513
50.00	21088	80.00	378	128.00	276	178.00	149
51.00	7595	81.00	1387	129.00	52	203.00	55
52.00	230	82.00	229	130.00	368	205.00	64
55.00	346	83.00	73	131.00	137	206.00	53
56.00	1042	86.00	384	135.00	54	208.00	67
57.00	2427	87.00	2862	136.00	53	259.00	52
59.00	53	88.00	2474	137.00	137	281.00	52
60.00	951	91.00	340	141.00	744	282.00	58
61.00	4092	92.00	2328	142.00	58	285.00	64
62.00	4630	93.00	3417	143.00	508		
63.00	2467	94.00	9508	145.00	73		
64.00	127	95.00	90896	148.00	140		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 480-175447/7

Matrix: Water Lab File ID: G29197.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 04/12/2014 11:22

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.: 175447 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 480-175447/7

Matrix: Water Lab File ID: G29197.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 04/12/2014 11:22

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.: 175447 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		66-137
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
2037-26-5	Toluene-d8 (Surr)	101		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29197.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 12-Apr-2014 11:22:30 ALS Bottle#: 27 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 480-0031015-007 =480-0031015-007
 Operator ID: RAL Instrument ID: HP5973G
 Method: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 12-Apr-2014 11:44:03 Calib Date: 10-Apr-2014 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: larsonr

Date: 12-Apr-2014 11:44:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.0	98	645519	25.0	
* 2 Chlorobenzene-d5	82	8.620	8.620	0.0	88	269671	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.991	10.985	0.006	97	224780	25.0	
\$ 148 Dibromofluoromethane (Surr)	113	5.023	5.023	0.0	57	141429	25.7	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.334	5.334	0.0	0	106536	25.4	
\$ 5 Toluene-d8 (Surr)	98	7.132	7.132	0.0	94	631586	25.2	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.857	9.863	-0.006	80	149946	24.4	
10 Dichlorodifluoromethane	85		1.450					
11 Chlorodifluoromethane	51		1.469					
12 Chloromethane	50		1.591					
13 Vinyl chloride	62		1.713					
144 Butadiene	54		1.731					
14 Bromomethane	94		2.042					
15 Chloroethane	64		2.139					
16 Dichlorofluoromethane	67		2.359					
17 Trichlorofluoromethane	101		2.383					
141 Ethanol	45		2.621					
18 Ethyl ether	59		2.633					
68 Propene oxide	58		2.718					
19 Acrolein	56		2.798					
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.889					
20 1,1-Dichloroethene	96		2.889					
22 Acetone	43		2.956					
23 Iodomethane	142		3.060					
24 Carbon disulfide	76		3.103					
25 Isopropyl alcohol	45		3.133					
26 3-Chloro-1-propene	41		3.218					
28 Methyl acetate	43		3.255					
27 Acetonitrile	40		3.255					
29 Methylene Chloride	84		3.407					
30 2-Methyl-2-propanol	59		3.517					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
31 Methyl tert-butyl ether	73		3.584					
32 trans-1,2-Dichloroethene	96		3.596					
33 Acrylonitrile	53		3.621					
34 Hexane	57		3.810					
36 1,1-Dichloroethane	63		4.005					
37 Isopropyl ether	45		4.041					
38 Vinyl acetate	43		4.060					
39 2-Chloro-1,3-butadiene	53		4.078					
40 1,1-Dimethoxyethane	75		4.102					
41 Tert-butyl ethyl ether	59		4.377					
42 2,2-Dichloropropane	77		4.529					
43 cis-1,2-Dichloroethene	96		4.560					
44 2-Butanone (MEK)	43		4.584					
45 Ethyl acetate	43		4.627					
46 Propionitrile	54		4.675					
47 Methacrylonitrile	41		4.791					
48 Chlorobromomethane	128		4.791					
49 Tetrahydrofuran	42		4.828					
50 Chloroform	85		4.870					
51 1,1,1-Trichloroethane	97		4.999					
52 Cyclohexane	56		5.023					
53 Carbon tetrachloride	117		5.151					
54 1,1-Dichloropropene	75		5.151					
55 Isobutyl alcohol	43		5.334					
56 Benzene	78		5.352					
140 t-Amyl alcohol	59		5.401					
57 1,2-Dichloroethane	62		5.401					
146 Isooctane	57		5.407					
58 Tert-amyl methyl ether	73		5.437					
59 n-Heptane	43		5.553					
1 1,4-Difluorobenzene	114		5.724					
60 n-Butanol	56		5.962					
61 Trichloroethene	95		5.968					
145 Ethyl acrylate	55		6.071					
62 Methylcyclohexane	83		6.102					
63 1,2-Dichloropropane	63		6.193					
64 Methyl methacrylate	41		6.291					
65 Dibromomethane	93		6.328					
66 1,4-Dioxane	88		6.340					
67 Dichlorobromomethane	83		6.480					
69 2-Nitropropane	43		6.712					
70 2-Chloroethyl vinyl ether	63		6.754					
71 Epichlorohydrin	57		6.840					
72 cis-1,3-Dichloropropene	75		6.901					
73 4-Methyl-2-pentanone (MIBK)	43		7.035					
74 Toluene	92		7.199					
75 2-Methylthiophene	97		7.333					
76 trans-1,3-Dichloropropene	75		7.461					
77 3-Methylthiophene	97		7.498					
78 Ethyl methacrylate	69		7.510					
79 1,1,2-Trichloroethane	83		7.650					
80 Tetrachloroethene	166		7.742					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
81 1,3-Dichloropropane	76		7.809					
82 2-Hexanone	43		7.876					
83 Chlorodibromomethane	129		8.053					
84 Ethylene Dibromide	107		8.156					
139 1-Chlorohexane	55		8.595					
85 3-Chlorobenzotrifluoride	180		8.614					
86 Chlorobenzene	112		8.650					
87 4-Chlorobenzotrifluoride	180		8.675					
89 Ethylbenzene	91		8.742					
88 1,1,1,2-Tetrachloroethane	131		8.742					
90 m-Xylene & p-Xylene	106		8.864					
91 o-Xylene	106		9.290					
92 Styrene	104		9.315					
93 Bromoform	173		9.552					
94 2-Chlorobenzotrifluoride	180		9.589					
95 Isopropylbenzene	105		9.674					
96 Cyclohexanone	55		9.821					
97 Bromobenzene	156		10.010					
98 1,1,2,2-Tetrachloroethane	83		10.040					
99 1,2,3-Trichloropropane	110		10.077					
100 trans-1,4-Dichloro-2-butene	53		10.089					
101 N-Propylbenzene	91		10.095					
102 2-Chlorotoluene	126		10.193					
103 3-Chlorotoluene	126		10.260					
104 1,3,5-Trimethylbenzene	105		10.272					
105 4-Chlorotoluene	126		10.302					
106 tert-Butylbenzene	134		10.583					
107 1,2,4-Trimethylbenzene	105		10.638					
108 Pentachloroethane	167		10.638					
109 sec-Butylbenzene	105		10.790					
110 1,3-Dichlorobenzene	146		10.924					
111 4-Isopropyltoluene	119		10.930					
112 Dicyclopentadiene	66		11.003					
113 1,4-Dichlorobenzene	146		11.010					
114 1,2,3-Trimethylbenzene	105		11.040					
143 Benzyl chloride	126		11.150					
115 n-Butylbenzene	91		11.314					
116 1,2-Dichlorobenzene	146		11.357					
117 1,2-Dibromo-3-Chloropropane	75		12.076					
118 1,3,5-Trichlorobenzene	180		12.229					
119 1,2,4-Trichlorobenzene	180		12.765					
120 Hexachlorobutadiene	225		12.881					
121 Naphthalene	128		12.973					
122 1,2,3-Trichlorobenzene	180		13.180					
142 2-Methylnaphthalene	142		13.887					
135 Halothane	1		0.0					
138 Pentachloroethane TIC	1		0.0					
136 1-Bromopropane TIC	1		0.0					
137 Ethylene oxide TIC	1		0.0					
134 Propene oxide TIC	1		0.0					
S 123 Total BTEX	1		30.000					
S 124 Xylenes, Total	1		30.000					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
S 125 1,2-Dichloroethene, Total	1		30.000					
S 126 1,3-Dichloropropene, Total	1		30.000					
T 8 bis(2-chloromethyl)ether TIC	1		0.0					
T 129 tert-amyl alcohol TIC	1		0.0					
T 9 Ethylene oxide	1		0.0					
T 127 Ethanol TIC	45		0.0					
T 132 Bromoethane TIC	1		0.0					
T 128 Hexachloroethane TIC	1		0.0					
T 130 Aziridine TIC	1		0.0					
T 133 1-Bromopropane	1		0.0					
T 131 bis(chloromethyl)ether TIC	1		0.0					

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29197.D

Injection Date: 12-Apr-2014 11:22:30

Instrument ID: HP5973G

Operator ID: RAL

Lims ID: MB

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

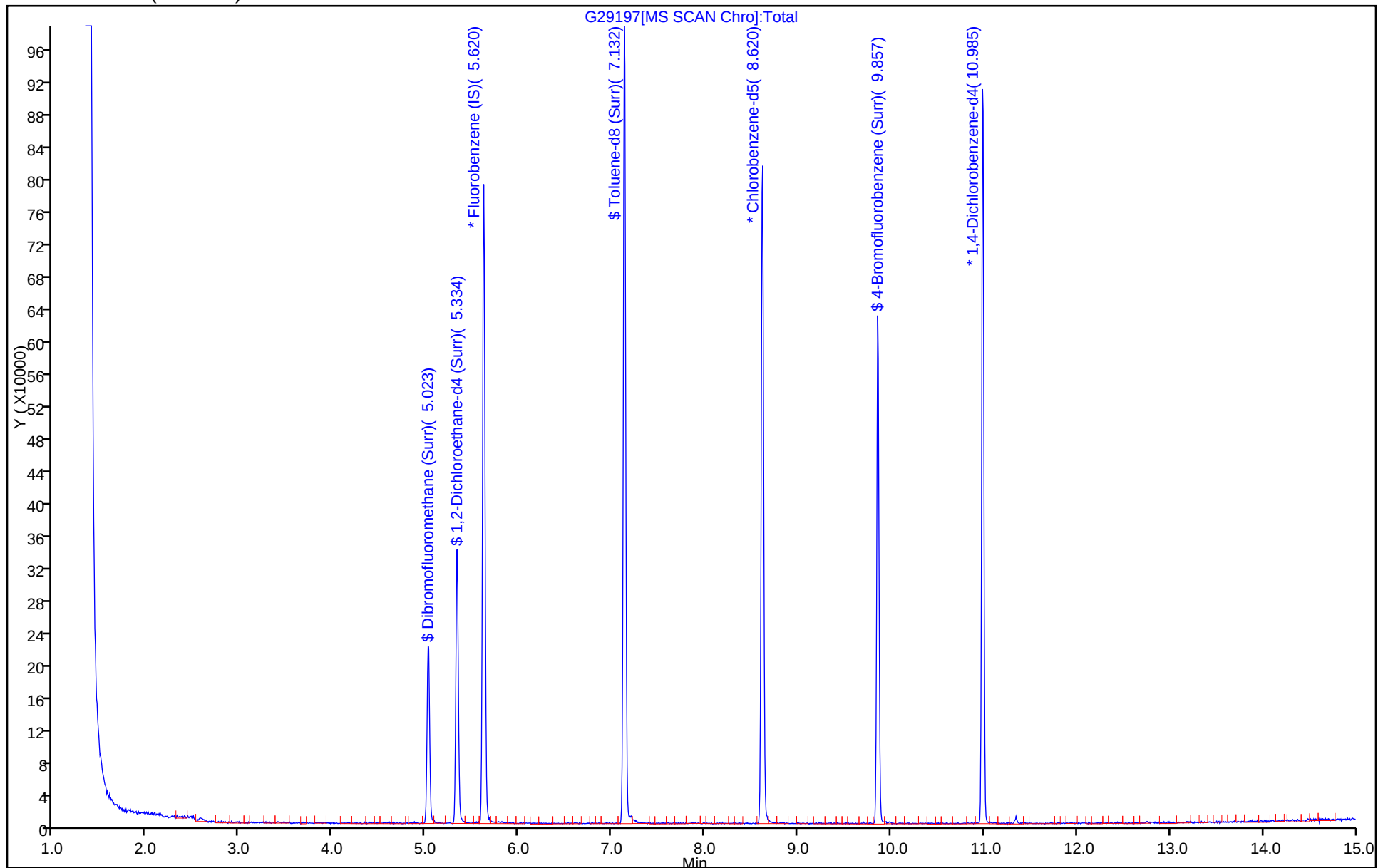
Dil. Factor: 1.0000

ALS Bottle#: 27

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 480-175488/7

Matrix: Water Lab File ID: G29237.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 04/14/2014 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.: 175488 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 480-175488/7

Matrix: Water Lab File ID: G29237.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 04/14/2014 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.: 175488 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		66-137
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
2037-26-5	Toluene-d8 (Surr)	99		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G29237.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 14-Apr-2014 00:25:30 ALS Bottle#: 40 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 480-0031036-007 =480-0031036-007
 Operator ID: gtg Instrument ID: HP5973G
 Method: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 14-Apr-2014 00:58:43 Calib Date: 10-Apr-2014 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: goliszekg

Date: 14-Apr-2014 00:58:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.0	98	623082	25.0	
* 2 Chlorobenzene-d5	82	8.620	8.620	0.0	88	258389	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.991	10.991	0.0	97	220466	25.0	
\$ 148 Dibromofluoromethane (Surr)	113	5.029	5.023	0.006	56	135005	25.4	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.334	5.334	0.0	0	101611	25.1	
\$ 5 Toluene-d8 (Surr)	98	7.138	7.132	0.006	94	594297	24.7	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.863	9.863	0.0	80	147009	24.9	
10 Dichlorodifluoromethane	85		1.444					
11 Chlorodifluoromethane	51		1.475					
12 Chloromethane	50		1.591					
13 Vinyl chloride	62		1.713					
144 Butadiene	54		1.737					
14 Bromomethane	94		2.011					
15 Chloroethane	64		2.152					
16 Dichlorofluoromethane	67		2.359					
17 Trichlorofluoromethane	101		2.383					
141 Ethanol	45		2.627					
18 Ethyl ether	59		2.633					
68 Propene oxide	58		2.719					
19 Acrolein	56		2.798					
20 1,1-Dichloroethene	96		2.889					
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.895					
22 Acetone	43		2.956					
23 Iodomethane	142		3.060					
24 Carbon disulfide	76		3.097					
25 Isopropyl alcohol	45		3.139					
26 3-Chloro-1-propene	41		3.218					
27 Acetonitrile	40		3.255					
28 Methyl acetate	43		3.255					
29 Methylene Chloride	84		3.407					
30 2-Methyl-2-propanol	59		3.517					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
31 Methyl tert-butyl ether	73		3.584					
32 trans-1,2-Dichloroethene	96		3.596					
33 Acrylonitrile	53		3.621					
34 Hexane	57		3.810					
36 1,1-Dichloroethane	63		4.005					
37 Isopropyl ether	45		4.041					
38 Vinyl acetate	43		4.060					
39 2-Chloro-1,3-butadiene	53		4.078					
40 1,1-Dimethoxyethane	75		4.102					
41 Tert-butyl ethyl ether	59		4.377					
42 2,2-Dichloropropane	77		4.535					
43 cis-1,2-Dichloroethene	96		4.560					
44 2-Butanone (MEK)	43		4.590					
45 Ethyl acetate	43		4.627					
46 Propionitrile	54		4.675					
47 Methacrylonitrile	41		4.791					
48 Chlorobromomethane	128		4.791					
49 Tetrahydrofuran	42		4.828					
50 Chloroform	85		4.871					
51 1,1,1-Trichloroethane	97		4.999					
52 Cyclohexane	56		5.029					
53 Carbon tetrachloride	117		5.145					
54 1,1-Dichloropropene	75		5.151					
55 Isobutyl alcohol	43		5.340					
56 Benzene	78		5.352					
140 t-Amyl alcohol	59		5.401					
57 1,2-Dichloroethane	62		5.401					
146 Isooctane	57		5.413					
58 Tert-amyl methyl ether	73		5.431					
59 n-Heptane	43		5.553					
1 1,4-Difluorobenzene	114		5.724					
60 n-Butanol	56		5.956					
61 Trichloroethene	95		5.962					
145 Ethyl acrylate	55		6.072					
62 Methylcyclohexane	83		6.102					
63 1,2-Dichloropropane	63		6.193					
64 Methyl methacrylate	41		6.291					
65 Dibromomethane	93		6.328					
66 1,4-Dioxane	88		6.340					
67 Dichlorobromomethane	83		6.480					
69 2-Nitropropane	43		6.718					
70 2-Chloroethyl vinyl ether	63		6.754					
71 Epichlorohydrin	57		6.840					
72 cis-1,3-Dichloropropene	75		6.901					
73 4-Methyl-2-pentanone (MIBK)	43		7.035					
74 Toluene	92		7.199					
75 2-Methylthiophene	97		7.333					
76 trans-1,3-Dichloropropene	75		7.462					
77 3-Methylthiophene	97		7.498					
78 Ethyl methacrylate	69		7.516					
79 1,1,2-Trichloroethane	83		7.651					
80 Tetrachloroethene	166		7.742					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
81 1,3-Dichloropropane	76		7.809					
82 2-Hexanone	43		7.876					
83 Chlorodibromomethane	129		8.053					
84 Ethylene Dibromide	107		8.163					
139 1-Chlorohexane	55		8.602					
85 3-Chlorobenzotrifluoride	180		8.614					
86 Chlorobenzene	112		8.650					
87 4-Chlorobenzotrifluoride	180		8.675					
88 1,1,1,2-Tetrachloroethane	131		8.742					
89 Ethylbenzene	91		8.742					
90 m-Xylene & p-Xylene	106		8.864					
91 o-Xylene	106		9.290					
92 Styrene	104		9.321					
93 Bromoform	173		9.553					
94 2-Chlorobenzotrifluoride	180		9.589					
95 Isopropylbenzene	105		9.674					
96 Cyclohexanone	55		9.821					
97 Bromobenzene	156		10.010					
98 1,1,2,2-Tetrachloroethane	83		10.040					
99 1,2,3-Trichloropropane	110		10.077					
100 trans-1,4-Dichloro-2-butene	53		10.089					
101 N-Propylbenzene	91		10.095					
102 2-Chlorotoluene	126		10.193					
103 3-Chlorotoluene	126		10.260					
104 1,3,5-Trimethylbenzene	105		10.272					
105 4-Chlorotoluene	126		10.302					
106 tert-Butylbenzene	134		10.589					
108 Pentachloroethane	167		10.638					
107 1,2,4-Trimethylbenzene	105		10.638					
109 sec-Butylbenzene	105		10.790					
112 Dicyclopentadiene	66		10.857					
110 1,3-Dichlorobenzene	146		10.924					
111 4-Isopropyltoluene	119		10.930					
113 1,4-Dichlorobenzene	146		11.010					
114 1,2,3-Trimethylbenzene	105		11.040					
143 Benzyl chloride	126		11.150					
115 n-Butylbenzene	91		11.314					
116 1,2-Dichlorobenzene	146		11.363					
117 1,2-Dibromo-3-Chloropropane	75		12.076					
118 1,3,5-Trichlorobenzene	180		12.229					
119 1,2,4-Trichlorobenzene	180		12.765					
120 Hexachlorobutadiene	225		12.881					
121 Naphthalene	128		12.973					
122 1,2,3-Trichlorobenzene	180		13.180					
142 2-Methylnaphthalene	142		13.887					
135 Halothane	1		0.0					
138 Pentachloroethane TIC	1		0.0					
136 1-Bromopropane TIC	1		0.0					
137 Ethylene oxide TIC	1		0.0					
134 Propene oxide TIC	1		0.0					
S 123 Total BTEX	1		30.000					
S 124 Xylenes, Total	1		30.000					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
S 125 1,2-Dichloroethene, Total	1		30.000					
S 126 1,3-Dichloropropene, Total	1		30.000					
T 8 bis(2-chloromethyl)ether TIC	1		0.0					
T 129 tert-amyl alcohol TIC	1		0.0					
T 9 Ethylene oxide	1		0.0					
T 127 Ethanol TIC	45		0.0					
T 132 Bromoethane TIC	1		0.0					
T 128 Hexachloroethane TIC	1		0.0					
T 130 Aziridine TIC	1		0.0					
T 133 1-Bromopropane	1		0.0					
T 131 bis(chloromethyl)ether TIC	1		0.0					

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G29237.D

Injection Date: 14-Apr-2014 00:25:30

Instrument ID: HP5973G

Operator ID: gtg

Lims ID: MB

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

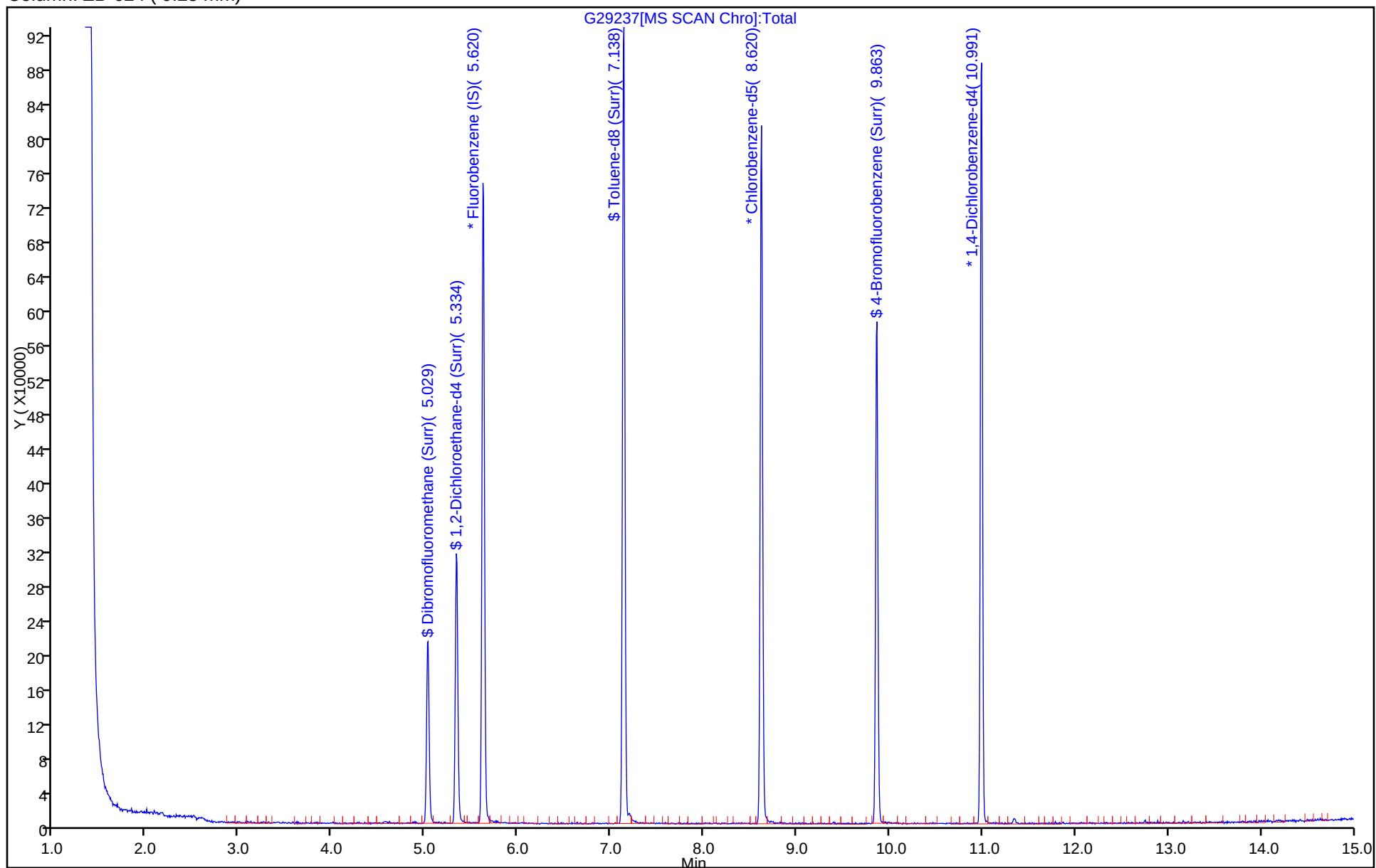
Dil. Factor: 1.0000

ALS Bottle#: 40

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 480-175447/5

Matrix: Water Lab File ID: G29195.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 04/12/2014 10:37

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.: 175447 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	27.3		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	25.5		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	22.1		1.0	0.31
79-00-5	1,1,2-Trichloroethane	23.9		1.0	0.23
75-34-3	1,1-Dichloroethane	25.4		1.0	0.38
75-35-4	1,1-Dichloroethene	22.9		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	25.8		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	23.4		1.0	0.39
106-93-4	1,2-Dibromoethane	24.9		1.0	0.73
95-50-1	1,2-Dichlorobenzene	24.8		1.0	0.79
107-06-2	1,2-Dichloroethane	24.9		1.0	0.21
78-87-5	1,2-Dichloropropane	24.5		1.0	0.72
541-73-1	1,3-Dichlorobenzene	24.8		1.0	0.78
106-46-7	1,4-Dichlorobenzene	24.3		1.0	0.84
78-93-3	2-Butanone (MEK)	127		10	1.3
591-78-6	2-Hexanone	130		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	128		5.0	2.1
67-64-1	Acetone	128		10	3.0
71-43-2	Benzene	24.1		1.0	0.41
75-27-4	Bromodichloromethane	26.1		1.0	0.39
75-25-2	Bromoform	23.4		1.0	0.26
74-83-9	Bromomethane	25.8		1.0	0.69
75-15-0	Carbon disulfide	24.7		1.0	0.19
56-23-5	Carbon tetrachloride	27.9		1.0	0.27
108-90-7	Chlorobenzene	24.0		1.0	0.75
75-00-3	Chloroethane	23.9		1.0	0.32
67-66-3	Chloroform	24.3		1.0	0.34
74-87-3	Chloromethane	23.1		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	23.8		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	26.6		1.0	0.36
110-82-7	Cyclohexane	23.4		1.0	0.18
124-48-1	Dibromochloromethane	23.5		1.0	0.32
75-71-8	Dichlorodifluoromethane	23.1		1.0	0.68
100-41-4	Ethylbenzene	24.5		1.0	0.74
98-82-8	Isopropylbenzene	25.5		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-175447/5
 Matrix: Water Lab File ID: G29195.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 04/12/2014 10:37
 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.: 175447 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	124		2.5	0.50
1634-04-4	Methyl tert-butyl ether	24.7		1.0	0.16
108-87-2	Methylcyclohexane	24.6		1.0	0.16
75-09-2	Methylene Chloride	21.1		1.0	0.44
100-42-5	Styrene	24.8		1.0	0.73
127-18-4	Tetrachloroethene	24.2		1.0	0.36
108-88-3	Toluene	24.2		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	22.8		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	28.1		1.0	0.37
79-01-6	Trichloroethene	23.6		1.0	0.46
75-69-4	Trichlorofluoromethane	26.9		1.0	0.88
75-01-4	Vinyl chloride	23.6		1.0	0.90
1330-20-7	Xylenes, Total	50.2		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		66-137
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
2037-26-5	Toluene-d8 (Surr)	100		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29195.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 12-Apr-2014 10:37:30 ALS Bottle#: 25 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 480-0031015-005 =480-0031015-005
 Operator ID: RAL Instrument ID: HP5973G
 Method: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 12-Apr-2014 11:37:20 Calib Date: 10-Apr-2014 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: larsonr

Date: 12-Apr-2014 11:37:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.614	5.620	-0.006	98	671742	25.0	
* 2 Chlorobenzene-d5	82	8.614	8.620	-0.006	89	280243	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.985	10.985	0.0	76	236407	25.0	
\$ 148 Dibromofluoromethane (Surr)	113	5.023	5.023	0.0	78	146168	25.5	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.334	5.334	0.0	0	108738	24.9	
\$ 5 Toluene-d8 (Surr)	98	7.132	7.132	0.0	93	651222	25.0	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.857	9.863	-0.006	80	159714	25.0	
10 Dichlorodifluoromethane	85	1.444	1.450	-0.006	87	231973	23.1	
12 Chloromethane	50	1.591	1.591	0.0	89	415396	23.1	
13 Vinyl chloride	62	1.719	1.713	0.006	82	299864	23.6	
144 Butadiene	54	1.737	1.731	0.006	90	364572	23.9	
14 Bromomethane	94	2.005	2.042	-0.037	91	110158	25.8	
15 Chloroethane	64	2.139	2.139	0.0	98	162536	23.9	
16 Dichlorofluoromethane	67	2.359	2.359	0.0	83	253773	24.0	
17 Trichlorofluoromethane	101	2.389	2.383	0.006	85	265251	26.9	
18 Ethyl ether	59	2.633	2.633	0.0	98	220178	23.8	
19 Acrolein	56	2.798	2.798	0.0	95	250945	124.0	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.889	2.889	0.0	45	182625	22.1	
20 1,1-Dichloroethene	96	2.889	2.889	0.0	83	211096	22.9	
22 Acetone	43	2.950	2.956	-0.006	99	535880	127.7	
23 Iodomethane	142	3.060	3.060	0.0	98	299047	25.2	
24 Carbon disulfide	76	3.103	3.103	0.0	100	556977	24.7	
26 3-Chloro-1-propene	41	3.212	3.218	-0.006	85	479889	25.9	
28 Methyl acetate	43	3.255	3.255	0.0	98	1438383	123.8	
29 Methylene Chloride	84	3.407	3.407	0.0	86	217301	21.1	
30 2-Methyl-2-propanol	59	3.517	3.517	0.0	98	360801	261.5	
31 Methyl tert-butyl ether	73	3.584	3.584	0.0	89	582416	24.7	
32 trans-1,2-Dichloroethene	96	3.590	3.596	-0.006	87	173767	22.8	
33 Acrylonitrile	53	3.621	3.621	0.0	97	1416206	240.6	
34 Hexane	57	3.810	3.810	0.0	96	400295	23.9	
36 1,1-Dichloroethane	63	4.005	4.005	0.0	85	382337	25.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
38 Vinyl acetate	43	4.060	4.060	0.0	96	1203942	52.0	
42 2,2-Dichloropropane	77	4.535	4.529	0.006	86	113113	26.4	
43 cis-1,2-Dichloroethene	96	4.560	4.560	0.0	73	181746	23.8	
44 2-Butanone (MEK)	43	4.584	4.584	0.0	97	912897	127.2	
48 Chlorobromomethane	128	4.791	4.791	0.0	82	85743	23.6	
49 Tetrahydrofuran	42	4.828	4.828	0.0	95	253720	47.9	
50 Chloroform	85	4.864	4.870	-0.006	83	192159	24.3	
51 1,1,1-Trichloroethane	97	4.999	4.999	0.001	91	213478	27.3	
52 Cyclohexane	56	5.023	5.023	0.0	92	540868	23.4	
53 Carbon tetrachloride	117	5.145	5.151	-0.006	79	191807	27.9	
54 1,1-Dichloropropene	75	5.151	5.151	0.0	90	229338	24.7	
55 Isobutyl alcohol	43	5.334	5.334	0.0	96	511851	592.6	
56 Benzene	78	5.352	5.352	0.0	95	695743	24.1	
57 1,2-Dichloroethane	62	5.401	5.401	0.0	88	300427	24.9	
59 n-Heptane	43	5.547	5.553	-0.006	95	499141	25.6	
61 Trichloroethene	95	5.962	5.968	-0.006	92	171243	23.6	
62 Methylcyclohexane	83	6.102	6.102	0.0	96	337217	24.6	
63 1,2-Dichloropropane	63	6.194	6.193	0.001	91	217532	24.5	
65 Dibromomethane	93	6.328	6.328	0.0	91	101759	24.3	
66 1,4-Dioxane	88	6.340	6.340	0.0	93	51703	578.3	M
67 Dichlorobromomethane	83	6.480	6.480	0.0	91	209692	26.1	
70 2-Chloroethyl vinyl ether	63	6.754	6.754	0.0	85	154831	24.2	
72 cis-1,3-Dichloropropene	75	6.895	6.901	-0.006	86	272330	26.6	
73 4-Methyl-2-pentanone (MIBK)	43	7.035	7.035	0.0	98	1788503	127.7	
74 Toluene	92	7.199	7.199	0.0	97	461065	24.2	
76 trans-1,3-Dichloropropene	75	7.455	7.461	-0.006	94	240548	28.1	
78 Ethyl methacrylate	69	7.510	7.510	0.0	93	256340	25.3	
79 1,1,2-Trichloroethane	83	7.651	7.650	0.001	88	129529	23.9	
80 Tetrachloroethene	166	7.742	7.742	0.0	87	158602	24.2	
81 1,3-Dichloropropane	76	7.809	7.809	0.0	96	296369	24.4	
82 2-Hexanone	43	7.876	7.876	0.0	99	1278555	129.5	
83 Chlorodibromomethane	129	8.053	8.053	0.0	89	146093	23.5	
84 Ethylene Dibromide	107	8.163	8.156	0.007	98	163922	24.9	
86 Chlorobenzene	112	8.644	8.650	-0.006	91	492736	24.0	
89 Ethylbenzene	91	8.742	8.742	0.0	98	858503	24.5	
88 1,1,1,2-Tetrachloroethane	131	8.742	8.742	0.0	83	141482	27.8	
90 m-Xylene & p-Xylene	106	8.864	8.864	0.0	0	342655	24.9	
91 o-Xylene	106	9.290	9.290	0.0	97	331820	25.3	
92 Styrene	104	9.315	9.315	0.0	93	570212	24.8	
93 Bromoform	173	9.553	9.552	0.001	94	74212	23.4	
95 Isopropylbenzene	105	9.675	9.674	0.001	96	869851	25.5	
97 Bromobenzene	156	10.010	10.010	0.0	98	188330	24.6	
98 1,1,2,2-Tetrachloroethane	83	10.040	10.040	0.0	82	224287	25.5	
99 1,2,3-Trichloropropane	110	10.077	10.077	0.0	84	74858	24.2	
100 trans-1,4-Dichloro-2-butene	53	10.089	10.089	0.0	64	106122	28.3	
101 N-Propylbenzene	91	10.095	10.095	0.0	98	1002341	25.0	
102 2-Chlorotoluene	126	10.193	10.193	0.0	95	196778	24.4	
104 1,3,5-Trimethylbenzene	105	10.266	10.272	-0.006	92	752119	25.7	
105 4-Chlorotoluene	126	10.302	10.302	0.0	96	210673	25.1	
106 tert-Butylbenzene	134	10.583	10.583	0.0	94	162549	25.6	
107 1,2,4-Trimethylbenzene	105	10.638	10.638	0.0	97	780417	25.8	
109 sec-Butylbenzene	105	10.790	10.790	0.0	95	951266	25.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
110 1,3-Dichlorobenzene	146	10.924	10.924	0.0	96	383416	24.8	
111 4-Isopropyltoluene	119	10.930	10.930	0.0	97	831961	25.8	
113 1,4-Dichlorobenzene	146	11.010	11.010	0.0	93	391180	24.3	
115 n-Butylbenzene	91	11.314	11.314	0.0	98	762858	26.2	
116 1,2-Dichlorobenzene	146	11.357	11.357	0.0	94	375696	24.8	
117 1,2-Dibromo-3-Chloropropane	75	12.076	12.076	0.0	74	47168	23.4	
119 1,2,4-Trichlorobenzene	180	12.765	12.765	0.0	90	262650	25.8	
120 Hexachlorobutadiene	225	12.881	12.881	0.0	93	104828	24.7	
121 Naphthalene	128	12.973	12.973	0.0	97	925194	25.9	
122 1,2,3-Trichlorobenzene	180	13.180	13.180	0.0	92	252384	25.1	

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140412-31029.b\G29195.D

Injection Date: 12-Apr-2014 10:37:30

Instrument ID: HP5973G

Operator ID: RAL

Lims ID: LCS

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

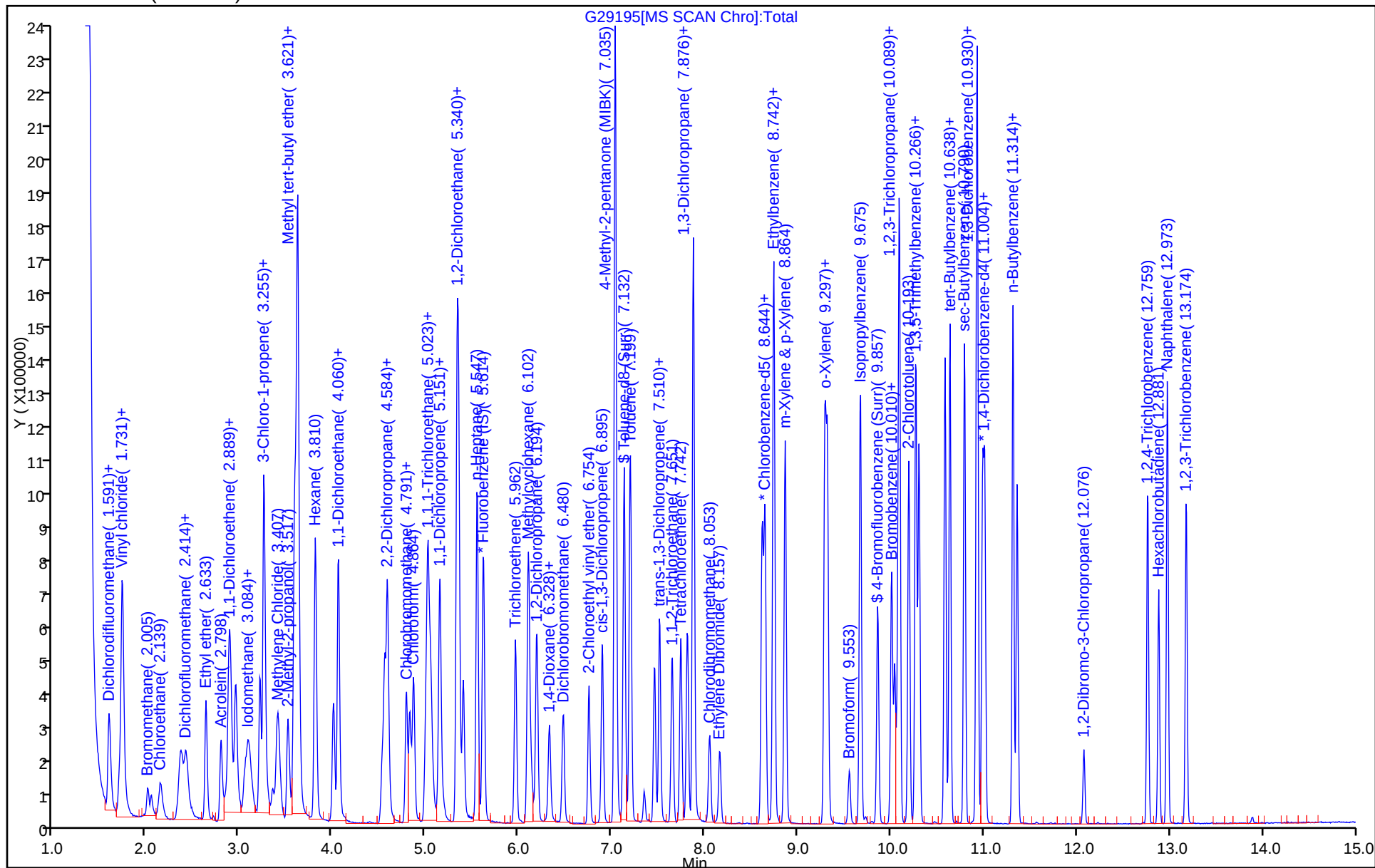
Dil. Factor: 1.0000

ALS Bottle#: 25

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 480-175488/5

Matrix: Water Lab File ID: G29235.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 04/13/2014 23:39

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.: 175488 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	26.5		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	24.1		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	24.4		1.0	0.31
79-00-5	1,1,2-Trichloroethane	23.1		1.0	0.23
75-34-3	1,1-Dichloroethane	23.7		1.0	0.38
75-35-4	1,1-Dichloroethene	24.4		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	25.6		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	23.9		1.0	0.39
106-93-4	1,2-Dibromoethane	25.1		1.0	0.73
95-50-1	1,2-Dichlorobenzene	25.2		1.0	0.79
107-06-2	1,2-Dichloroethane	24.5		1.0	0.21
78-87-5	1,2-Dichloropropane	23.2		1.0	0.72
541-73-1	1,3-Dichlorobenzene	24.6		1.0	0.78
106-46-7	1,4-Dichlorobenzene	23.6		1.0	0.84
78-93-3	2-Butanone (MEK)	122		10	1.3
591-78-6	2-Hexanone	126		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	126		5.0	2.1
67-64-1	Acetone	120		10	3.0
71-43-2	Benzene	23.7		1.0	0.41
75-27-4	Bromodichloromethane	26.5		1.0	0.39
75-25-2	Bromoform	22.7		1.0	0.26
74-83-9	Bromomethane	24.3		1.0	0.69
75-15-0	Carbon disulfide	25.6		1.0	0.19
56-23-5	Carbon tetrachloride	28.0		1.0	0.27
108-90-7	Chlorobenzene	24.3		1.0	0.75
75-00-3	Chloroethane	24.7		1.0	0.32
67-66-3	Chloroform	24.2		1.0	0.34
74-87-3	Chloromethane	24.0		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	23.9		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	25.9		1.0	0.36
110-82-7	Cyclohexane	24.5		1.0	0.18
124-48-1	Dibromochloromethane	22.9		1.0	0.32
75-71-8	Dichlorodifluoromethane	24.6		1.0	0.68
100-41-4	Ethylbenzene	24.7		1.0	0.74
98-82-8	Isopropylbenzene	25.0		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 480-175488/5

Matrix: Water Lab File ID: G29235.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 04/13/2014 23:39

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.: 175488 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	119		2.5	0.50
1634-04-4	Methyl tert-butyl ether	24.0		1.0	0.16
108-87-2	Methylcyclohexane	24.5		1.0	0.16
75-09-2	Methylene Chloride	21.3		1.0	0.44
100-42-5	Styrene	24.4		1.0	0.73
127-18-4	Tetrachloroethene	24.2		1.0	0.36
108-88-3	Toluene	23.8		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	24.5		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	26.7		1.0	0.37
79-01-6	Trichloroethene	23.6		1.0	0.46
75-69-4	Trichlorofluoromethane	29.9		1.0	0.88
75-01-4	Vinyl chloride	24.3		1.0	0.90
1330-20-7	Xylenes, Total	49.8		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		66-137
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
2037-26-5	Toluene-d8 (Surr)	101		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G29235.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 13-Apr-2014 23:39:30 ALS Bottle#: 38 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 480-0031036-005 =480-0031036-005
 Operator ID: gtg Instrument ID: HP5973G
 Method: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 14-Apr-2014 00:05:31 Calib Date: 10-Apr-2014 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: goliszekg

Date: 14-Apr-2014 00:06:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.0	98	639482	25.0	
* 2 Chlorobenzene-d5	82	8.620	8.620	0.0	88	266646	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.991	10.991	0.0	78	232147	25.0	
\$ 148 Dibromofluoromethane (Surr)	113	5.023	5.023	0.0	59	143203	26.2	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.334	5.334	0.0	0	104333	25.1	
\$ 5 Toluene-d8 (Surr)	98	7.132	7.132	0.0	94	625229	25.2	
\$ 6 4-Bromofluorobenzene (Surr)	174	9.864	9.863	0.001	82	154184	25.3	
10 Dichlorodifluoromethane	85	1.444	1.444	0.0	86	234678	24.6	
12 Chloromethane	50	1.591	1.591	0.0	89	410647	24.0	
13 Vinyl chloride	62	1.713	1.713	0.0	83	294085	24.3	
144 Butadiene	54	1.737	1.737	0.0	92	377067	26.0	
14 Bromomethane	94	2.011	2.011	0.0	90	98906	24.3	
15 Chloroethane	64	2.145	2.152	-0.007	93	159761	24.7	
16 Dichlorofluoromethane	67	2.359	2.359	0.0	92	254313	25.3	
17 Trichlorofluoromethane	101	2.377	2.383	-0.006	94	279878	29.9	
18 Ethyl ether	59	2.639	2.633	0.006	97	194359	22.1	
19 Acrolein	56	2.798	2.798	0.0	94	215625	111.9	
20 1,1-Dichloroethene	96	2.889	2.889	0.0	83	214065	24.4	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.889	2.895	-0.006	44	191839	24.4	
22 Acetone	43	2.956	2.956	0.0	99	479602	120.1	
23 Iodomethane	142	3.060	3.060	0.0	97	289028	25.6	
24 Carbon disulfide	76	3.097	3.097	0.001	100	550052	25.6	
26 3-Chloro-1-propene	41	3.218	3.218	0.0	84	443759	25.2	
28 Methyl acetate	43	3.261	3.255	0.006	98	1315835	119.0	
29 Methylene Chloride	84	3.420	3.407	0.013	81	208590	21.3	
30 2-Methyl-2-propanol	59	3.517	3.517	0.0	97	330802	251.9	
31 Methyl tert-butyl ether	73	3.590	3.584	0.006	90	540557	24.0	
32 trans-1,2-Dichloroethene	96	3.596	3.596	0.0	87	177767	24.5	
33 Acrylonitrile	53	3.621	3.621	0.0	99	1329821	237.3	
34 Hexane	57	3.810	3.810	0.0	95	389057	24.4	
36 1,1-Dichloroethane	63	4.011	4.005	0.006	85	338567	23.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
38 Vinyl acetate	43	4.060	4.060	0.0	96	1138553	51.6	
42 2,2-Dichloropropane	77	4.535	4.535	0.0	89	102566	25.2	
43 cis-1,2-Dichloroethene	96	4.560	4.560	0.0	74	173775	23.9	
44 2-Butanone (MEK)	43	4.590	4.590	0.0	97	833070	121.9	
48 Chlorobromomethane	128	4.791	4.791	0.0	81	79776	23.1	
49 Tetrahydrofuran	42	4.828	4.828	0.0	95	236190	46.9	
50 Chloroform	85	4.871	4.871	0.0	83	182202	24.2	
51 1,1,1-Trichloroethane	97	4.999	4.999	0.0	91	197199	26.5	
52 Cyclohexane	56	5.023	5.029	-0.006	92	538874	24.5	
53 Carbon tetrachloride	117	5.145	5.145	0.0	77	183171	28.0	
54 1,1-Dichloropropene	75	5.151	5.151	0.0	90	214961	24.3	
55 Isobutyl alcohol	43	5.340	5.340	0.0	95	458831	559.4	
56 Benzene	78	5.352	5.352	0.0	94	652735	23.7	
57 1,2-Dichloroethane	62	5.407	5.401	0.006	88	281585	24.5	
59 n-Heptane	43	5.553	5.553	0.0	96	460931	24.9	
61 Trichloroethene	95	5.962	5.962	0.0	93	163156	23.6	
62 Methylcyclohexane	83	6.102	6.102	0.0	94	318951	24.5	
63 1,2-Dichloropropane	63	6.193	6.193	0.0	92	196220	23.2	
65 Dibromomethane	93	6.328	6.328	0.0	87	95193	23.9	
66 1,4-Dioxane	88	6.346	6.340	0.006	90	45219	531.6	
67 Dichlorobromomethane	83	6.480	6.480	0.0	91	202463	26.5	
70 2-Chloroethyl vinyl ether	63	6.754	6.754	0.0	85	144502	23.7	
72 cis-1,3-Dichloropropene	75	6.901	6.901	0.0	86	252096	25.9	
73 4-Methyl-2-pentanone (MIBK)	43	7.035	7.035	0.0	98	1680024	126.1	
74 Toluene	92	7.199	7.199	0.0	98	431648	23.8	
76 trans-1,3-Dichloropropene	75	7.462	7.462	0.0	94	217903	26.7	
78 Ethyl methacrylate	69	7.516	7.516	0.0	92	235861	24.5	
79 1,1,2-Trichloroethane	83	7.651	7.651	0.001	90	118832	23.1	
80 Tetrachloroethene	166	7.742	7.742	0.0	86	150860	24.2	
81 1,3-Dichloropropane	76	7.815	7.809	0.006	95	274095	23.7	
82 2-Hexanone	43	7.876	7.876	0.0	99	1182885	125.9	
83 Chlorodibromomethane	129	8.053	8.053	0.0	90	135491	22.9	
84 Ethylene Dibromide	107	8.163	8.163	0.0	98	157067	25.1	
86 Chlorobenzene	112	8.650	8.650	0.0	91	474617	24.3	
88 1,1,1,2-Tetrachloroethane	131	8.742	8.742	0.0	82	135346	27.9	
89 Ethylbenzene	91	8.742	8.742	0.0	98	822718	24.7	
90 m-Xylene & p-Xylene	106	8.864	8.864	0.0	0	325905	24.8	
91 o-Xylene	106	9.290	9.290	0.0	98	312383	25.0	
92 Styrene	104	9.321	9.321	0.0	94	533514	24.4	
93 Bromoform	173	9.553	9.553	0.0	94	68106	22.7	
95 Isopropylbenzene	105	9.675	9.674	0.0	96	837004	25.0	
97 Bromobenzene	156	10.010	10.010	0.0	98	177545	23.6	
98 1,1,2,2-Tetrachloroethane	83	10.040	10.040	0.0	80	208200	24.1	
99 1,2,3-Trichloropropane	110	10.077	10.077	0.0	81	72946	24.1	
100 trans-1,4-Dichloro-2-butene	53	10.089	10.089	0.0	65	84798	23.0	
101 N-Propylbenzene	91	10.095	10.095	0.0	97	970713	24.6	
102 2-Chlorotoluene	126	10.193	10.193	0.0	93	188797	23.8	
104 1,3,5-Trimethylbenzene	105	10.272	10.272	0.0	94	728506	25.3	
105 4-Chlorotoluene	126	10.309	10.302	0.007	98	200170	24.3	
106 tert-Butylbenzene	134	10.589	10.589	0.0	93	160206	25.7	
107 1,2,4-Trimethylbenzene	105	10.638	10.638	0.0	97	739612	24.9	
109 sec-Butylbenzene	105	10.796	10.790	0.006	94	944782	25.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
110 1,3-Dichlorobenzene	146	10.924	10.924	0.0	95	373099	24.6	
111 4-Isopropyltoluene	119	10.930	10.930	0.0	96	831312	26.2	
113 1,4-Dichlorobenzene	146	11.010	11.010	0.0	92	372461	23.6	
115 n-Butylbenzene	91	11.314	11.314	0.0	97	744633	26.1	
116 1,2-Dichlorobenzene	146	11.363	11.363	0.0	94	374200	25.2	
117 1,2-Dibromo-3-Chloropropane	75	12.076	12.076	0.0	71	47268	23.9	
119 1,2,4-Trichlorobenzene	180	12.765	12.765	0.0	93	256264	25.6	
120 Hexachlorobutadiene	225	12.881	12.881	0.0	93	106504	25.6	
121 Naphthalene	128	12.973	12.973	0.0	97	921086	26.3	
122 1,2,3-Trichlorobenzene	180	13.180	13.180	0.0	93	251925	25.5	

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140413-31036.b\G29235.D

Injection Date: 13-Apr-2014 23:39:30

Instrument ID: HP5973G

Operator ID: gtg

Lims ID: LCS

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

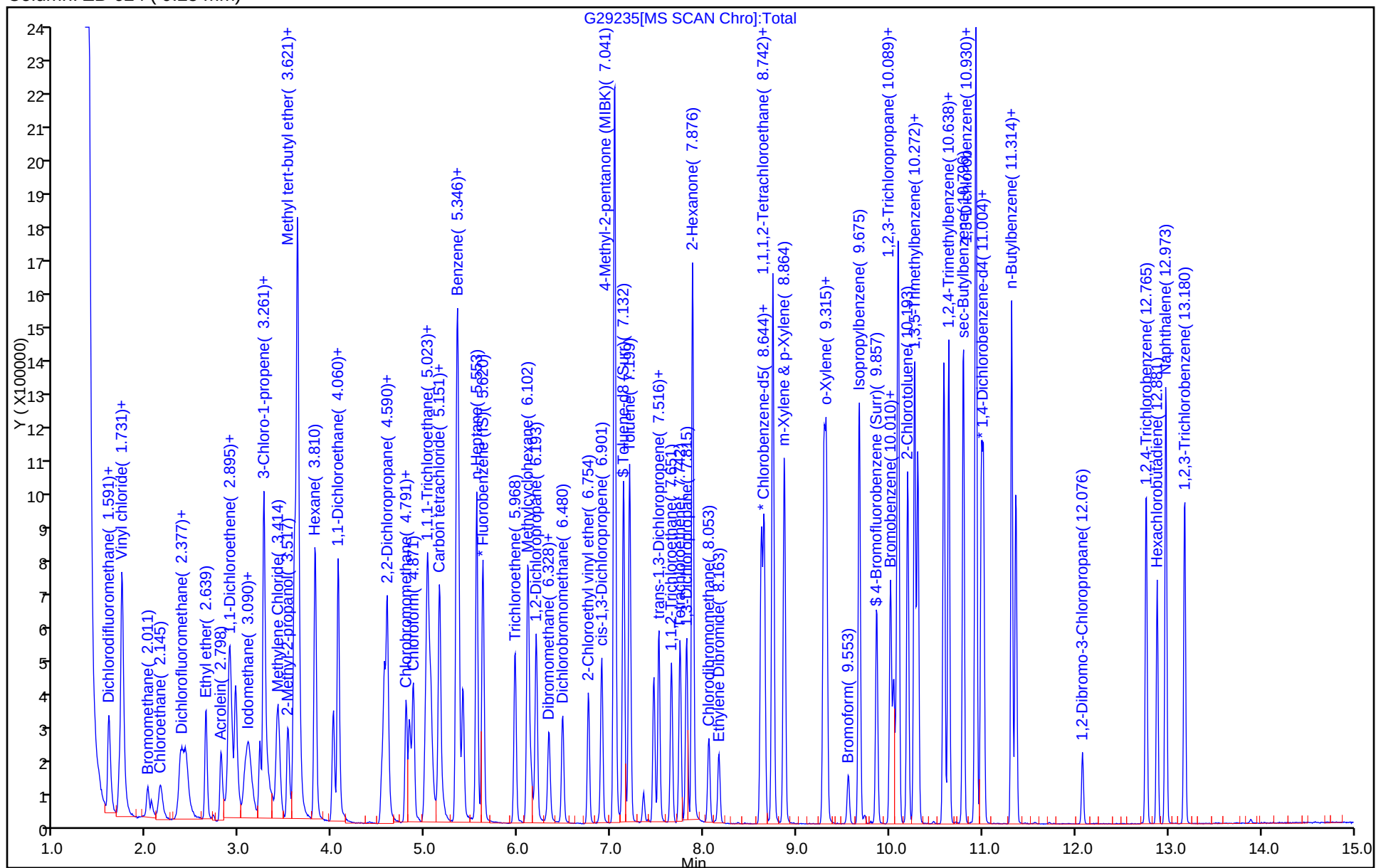
Dil. Factor: 1.0000

ALS Bottle#: 38

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-57666-1

SDG No.: _____

Instrument ID: HP5973GStart Date: 04/12/2014 09:03Analysis Batch Number: 175447End Date: 04/13/2014 00:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-175447/2		04/12/2014 09:03	1	G29192.D	ZB-624 (60) 0.25 (mm)
CCVIS 480-175447/3		04/12/2014 09:28	1	G29193.D	ZB-624 (60) 0.25 (mm)
CCV 480-175447/4		04/12/2014 09:51	1		ZB-624 (60) 0.25 (mm)
LCS 480-175447/5		04/12/2014 10:37	1	G29195.D	ZB-624 (60) 0.25 (mm)
MB 480-175447/7		04/12/2014 11:22	1	G29197.D	ZB-624 (60) 0.25 (mm)
480-57666-1	MW-2	04/12/2014 12:01	1	G29198.D	ZB-624 (60) 0.25 (mm)
480-57666-2	MW-11	04/12/2014 12:24	1	G29199.D	ZB-624 (60) 0.25 (mm)
480-57666-3	MW-10	04/12/2014 12:47	1	G29200.D	ZB-624 (60) 0.25 (mm)
480-57666-4	MW-6	04/12/2014 13:10	1	G29201.D	ZB-624 (60) 0.25 (mm)
480-57666-5	Rinse Blank	04/12/2014 13:32	1	G29202.D	ZB-624 (60) 0.25 (mm)
480-57666-6	Trip	04/12/2014 13:55	1	G29203.D	ZB-624 (60) 0.25 (mm)
480-57666-7	MW-12	04/12/2014 14:18	1	G29204.D	ZB-624 (60) 0.25 (mm)
480-57666-9	MW-9	04/12/2014 15:04	1	G29206.D	ZB-624 (60) 0.25 (mm)
480-57666-11	MW-13D	04/12/2014 15:49	1	G29208.D	ZB-624 (60) 0.25 (mm)
480-57666-12	MW-3	04/12/2014 16:12	1	G29209.D	ZB-624 (60) 0.25 (mm)
480-57666-13	MW-14D	04/12/2014 16:35	1	G29210.D	ZB-624 (60) 0.25 (mm)
480-57666-14	MW-14S	04/12/2014 16:58	1	G29211.D	ZB-624 (60) 0.25 (mm)
480-57666-15	MW-4	04/12/2014 17:21	1000	G29212.D	ZB-624 (60) 0.25 (mm)
480-57666-16	MW-8R	04/12/2014 17:44	1000	G29213.D	ZB-624 (60) 0.25 (mm)
480-57666-17	MW-15S	04/12/2014 18:06	20	G29214.D	ZB-624 (60) 0.25 (mm)
480-57666-18	MW-15D	04/12/2014 18:29	20	G29215.D	ZB-624 (60) 0.25 (mm)
ZZZZZ		04/12/2014 21:09	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/12/2014 21:31	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/12/2014 21:54	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/12/2014 22:17	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/12/2014 22:40	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/12/2014 23:03	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/12/2014 23:25	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/12/2014 23:49	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/13/2014 00:12	4		ZB-624 (60) 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-57666-1

SDG No.: _____

Instrument ID: HP5973G Start Date: 04/13/2014 20:50Analysis Batch Number: 175488 End Date: 04/14/2014 08:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-175488/2		04/13/2014 20:50	1	G29232.D	ZB-624 (60) 0.25 (mm)
CCVIS 480-175488/3		04/13/2014 21:23	1	G29233.D	ZB-624 (60) 0.25 (mm)
CCV 480-175488/4		04/13/2014 23:17	1		ZB-624 (60) 0.25 (mm)
LCS 480-175488/5		04/13/2014 23:39	1	G29235.D	ZB-624 (60) 0.25 (mm)
MB 480-175488/7		04/14/2014 00:25	1	G29237.D	ZB-624 (60) 0.25 (mm)
ZZZZZ		04/14/2014 01:16	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/14/2014 01:39	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/14/2014 02:01	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/14/2014 02:24	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/14/2014 02:47	5		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/14/2014 03:10	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/14/2014 03:33	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/14/2014 03:55	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/14/2014 04:18	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/14/2014 04:41	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/14/2014 05:04	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/14/2014 05:27	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/14/2014 05:51	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/14/2014 06:14	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/14/2014 06:37	20		ZB-624 (60) 0.25 (mm)
480-57666-8	Duplicate	04/14/2014 06:59	500	G29253.D	ZB-624 (60) 0.25 (mm)
480-57666-10	MW-13S	04/14/2014 07:22	500	G29254.D	ZB-624 (60) 0.25 (mm)
480-57666-19	MW-16S	04/14/2014 07:45	1000	G29255.D	ZB-624 (60) 0.25 (mm)
480-57666-20	MW-16D	04/14/2014 08:08	25	G29256.D	ZB-624 (60) 0.25 (mm)
ZZZZZ		04/14/2014 08:31	25		ZB-624 (60) 0.25 (mm)
ZZZZZ		04/14/2014 08:53	25		ZB-624 (60) 0.25 (mm)

GC/MS VOA Worksheet

Batch Number: 480-175447

Method: 8260C

Analyst: Goliszek, Gregory T

Date Open: Apr 12 2014 9:03AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	2MTP_WRK_00030	3MTP_WRK_00033
BFB~480-175447/2		8260C			1 uL	1 uL	HP5973G		
CCVIS~480-175447/3		8260C			5 mL	5 mL	HP5973G		
CCV~480-175447/4		8260C			5 mL	5 mL	HP5973G	12.5 uL	12.5 uL
LCS~480-175447/5		8260C			5 mL	5 mL	HP5973G		
MB~480-175447/7		8260C			5 mL	5 mL	HP5973G		
480-57666-A-1	MW-2	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57666-A-2	MW-11	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57666-A-3	MW-10	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57666-A-4	MW-6	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57666-A-5	Rinse Blank	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57666-A-6	Trip	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57666-A-7	MW-12	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57666-A-9	MW-9	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57666-A-11	MW-13D	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57666-A-12	MW-3	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57666-A-13	MW-14D	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57666-A-14	MW-14S	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57666-A-15	MW-4	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57666-A-16	MW-8R	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57666-A-17	MW-15S	8260C	T	12 SU	5 mL	5 mL	HP5973G		
480-57666-A-18	MW-15D	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57303-A-6	SC #5	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57303-A-7	INC #1	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57303-A-8	INC #3	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57303-A-9	INC #5	8260C	T	<2 SU	5 mL	5 mL	HP5973G		

GC/MS VOA Worksheet

Batch Number: 480-175447

Method: 8260C

Analyst: Goliszek, Gregory T

Date Open: Apr 12 2014 9:03AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	8260 CORP mix_00007	ADD CORP mix_00007	BFB_WRK_00033	Epichloro WRK_00003	G_8260_IS_00043	G_8260_Surr_00064
BFB~480-175447/2		8260C				1 uL			
CCVIS~480-175447/3		8260C		12.5 uL				1 uL	1 uL
CCV~480-175447/4		8260C			12.5 uL		12.5 uL	1 uL	1 uL
LCS~480-175447/5		8260C		12.5 uL				1 uL	1 uL
MB~480-175447/7		8260C						1 uL	1 uL
480-57666-A-1	MW-2	8260C	T					1 uL	1 uL
480-57666-A-2	MW-11	8260C	T					1 uL	1 uL
480-57666-A-3	MW-10	8260C	T					1 uL	1 uL
480-57666-A-4	MW-6	8260C	T					1 uL	1 uL
480-57666-A-5	Rinse Blank	8260C	T					1 uL	1 uL
480-57666-A-6	Trip	8260C	T					1 uL	1 uL
480-57666-A-7	MW-12	8260C	T					1 uL	1 uL
480-57666-A-9	MW-9	8260C	T					1 uL	1 uL
480-57666-A-11	MW-13D	8260C	T					1 uL	1 uL
480-57666-A-12	MW-3	8260C	T					1 uL	1 uL
480-57666-A-13	MW-14D	8260C	T					1 uL	1 uL
480-57666-A-14	MW-14S	8260C	T					1 uL	1 uL
480-57666-A-15	MW-4	8260C	T					1 uL	1 uL
480-57666-A-16	MW-8R	8260C	T					1 uL	1 uL
480-57666-A-17	MW-15S	8260C	T					1 uL	1 uL
480-57666-A-18	MW-15D	8260C	T					1 uL	1 uL
480-57303-A-6	SC #5	8260C	T					1 uL	1 uL
480-57303-A-7	INC #1	8260C	T					1 uL	1 uL
480-57303-A-8	INC #3	8260C	T					1 uL	1 uL
480-57303-A-9	INC #5	8260C	T					1 uL	1 uL

GC/MS VOA Worksheet

Batch Number: 480-175447

Method: 8260C

Analyst: Goliszek, Gregory T

Date Open: Apr 12 2014 9:03AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	GAS CORP mix_00020
BFB~480-175447/2		8260C		
CCVIS~480-175447/3		8260C		12.5 uL
CCV~480-175447/4		8260C		
LCS~480-175447/5		8260C		12.5 uL
MB~480-175447/7		8260C		
480-57666-A-1	MW-2	8260C	T	
480-57666-A-2	MW-11	8260C	T	
480-57666-A-3	MW-10	8260C	T	
480-57666-A-4	MW-6	8260C	T	
480-57666-A-5	Rinse Blank	8260C	T	
480-57666-A-6	Trip	8260C	T	
480-57666-A-7	MW-12	8260C	T	
480-57666-A-9	MW-9	8260C	T	
480-57666-A-11	MW-13D	8260C	T	
480-57666-A-12	MW-3	8260C	T	
480-57666-A-13	MW-14D	8260C	T	
480-57666-A-14	MW-14S	8260C	T	
480-57666-A-15	MW-4	8260C	T	
480-57666-A-16	MW-8R	8260C	T	
480-57666-A-17	MW-15S	8260C	T	
480-57666-A-18	MW-15D	8260C	T	
480-57303-A-6	SC #5	8260C	T	
480-57303-A-7	INC #1	8260C	T	
480-57303-A-8	INC #3	8260C	T	
480-57303-A-9	INC #5	8260C	T	

GC/MS VOA Worksheet

Batch Number: 480-175447

Method: 8260C

Analyst: Goliszek, Gregory T

Date Open: Apr 12 2014 9:03AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	2MTP_WRK_00030	3MTP_WRK_00033
480-57303-A-10	FREEZER #5	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57303-A-11	INC #9	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57303-A-12	FREEZER SC #10	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57172-G-2	G05D	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57288-E-2	LMH10	8260C	T	7 SU	5 mL	5 mL	HP5973G		

GC/MS VOA Worksheet

Batch Number: 480-175447

Method: 8260C

Analyst: Goliszek, Gregory T

Date Open: Apr 12 2014 9:03AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	8260 CORP mix_00007	ADD CORP mix_00007	BFB_WRK_00033	Epichloro WRK_00003	G_8260_IS_00043	G_8260_Surr_00064
480-57303-A-10	FREEZER #5	8260C	T					1 uL	1 uL
480-57303-A-11	INC #9	8260C	T					1 uL	1 uL
480-57303-A-12	FREEZER SC #10	8260C	T					1 uL	1 uL
480-57172-G-2	G05D	8260C	T					1 uL	1 uL
480-57288-E-2	LMH10	8260C	T					1 uL	1 uL

GC/MS VOA Worksheet

Batch Number: 480-175447

Method: 8260C

Analyst: Goliszek, Gregory T

Date Open: Apr 12 2014 9:03AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	GAS CORP mix_00020
480-57303-A-10	FREEZER #5	8260C	T	
480-57303-A-11	INC #9	8260C	T	
480-57303-A-12	FREEZER SC #10	8260C	T	
480-57172-G-2	G05D	8260C	T	
480-57288-E-2	LMH10	8260C	T	

GC/MS VOA Worksheet

Batch Number: 480-175488

Method: 8260C

Analyst: Larson, Renee A

Date Open: Apr 13 2014 8:50PM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	2MTP_WRK_00030	3MTP_WRK_00033
BFB~480-175488/2		8260C			1 uL	1 uL	HP5973G		
CCVIS~480-175488/3		8260C			5 mL	5 mL	HP5973G		
CCV~480-175488/4		8260C			5 mL	5 mL	HP5973G	12.5 uL	12.5 uL
LCS~480-175488/5		8260C			5 mL	5 mL	HP5973G		
MB~480-175488/7		8260C			5 mL	5 mL	HP5973G		
480-57450-X-1	G135	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57450-A-2	TB	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57451-A-1	W1001D	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57451-A-2	W1001S	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57451-A-3	W1002S	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57451-A-4	W1003D	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57451-A-5	W1003S	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57451-A-6	W1004D	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57451-A-7	W1004S	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57451-A-8	DUP2	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57451-A-9	02FB	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57451-A-10	TB	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57458-L-1	OW-15D	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57458-L-2	OW-15S	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57562-E-2	PS-AS-INFLUENT	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57666-B-8	Duplicate	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57666-B-10	MW-13S	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57666-B-19	MW-16S	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57666-B-20	MW-16D	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-57666-B-20~MS		8260C	T	<2 SU	5 mL	5 mL	HP5973G		

GC/MS VOA Worksheet

Batch Number: 480-175488

Method: 8260C

Analyst: Larson, Renee A

Date Open: Apr 13 2014 8:50PM

Batch End:

Lab ID	Client ID	Method Chain	Basis	8260 CORP mix_00007	ADD CORP mix_00007	BFB_WRK_00033	Epichloro WRK_00003	G_8260_IS_00043	G_8260_Surr_00064
BFB~480-175488/2		8260C				1 uL			
CCVIS~480-175488/ 3		8260C		12.5 uL				1 uL	1 uL
CCV~480-175488/4		8260C			12.5 uL		12.5 uL	1 uL	1 uL
LCS~480-175488/5		8260C		12.5 uL				1 uL	1 uL
MB~480-175488/7		8260C						1 uL	1 uL
480-57450-X-1	G135	8260C	T					1 uL	1 uL
480-57450-A-2	TB	8260C	T					1 uL	1 uL
480-57451-A-1	W1001D	8260C	T					1 uL	1 uL
480-57451-A-2	W1001S	8260C	T					1 uL	1 uL
480-57451-A-3	W1002S	8260C	T					1 uL	1 uL
480-57451-A-4	W1003D	8260C	T					1 uL	1 uL
480-57451-A-5	W1003S	8260C	T					1 uL	1 uL
480-57451-A-6	W1004D	8260C	T					1 uL	1 uL
480-57451-A-7	W1004S	8260C	T					1 uL	1 uL
480-57451-A-8	DUP2	8260C	T					1 uL	1 uL
480-57451-A-9	02FB	8260C	T					1 uL	1 uL
480-57451-A-10	TB	8260C	T					1 uL	1 uL
480-57458-L-1	OW-15D	8260C	T					1 uL	1 uL
480-57458-L-2	OW-15S	8260C	T					1 uL	1 uL
480-57562-E-2	PS-AS-INFLUENT	8260C	T					1 uL	1 uL
480-57666-B-8	Duplicate	8260C	T					1 uL	1 uL
480-57666-B-10	MW-13S	8260C	T					1 uL	1 uL
480-57666-B-19	MW-16S	8260C	T					1 uL	1 uL
480-57666-B-20	MW-16D	8260C	T					1 uL	1 uL
480-57666-B-20~MS		8260C	T	12.5 uL				1 uL	1 uL

GC/MS VOA Worksheet

Batch Number: 480-175488

Method: 8260C

Analyst: Larson, Renee A

Date Open: Apr 13 2014 8:50PM

Batch End:

Lab ID	Client ID	Method Chain	Basis	GAS CORP mix_00020
BFB~480-175488/2		8260C		
CCVIS~480-175488/3		8260C		12.5 uL
CCV~480-175488/4		8260C		
LCS~480-175488/5		8260C		12.5 uL
MB~480-175488/7		8260C		
480-57450-X-1	G135	8260C	T	
480-57450-A-2	TB	8260C	T	
480-57451-A-1	W1001D	8260C	T	
480-57451-A-2	W1001S	8260C	T	
480-57451-A-3	W1002S	8260C	T	
480-57451-A-4	W1003D	8260C	T	
480-57451-A-5	W1003S	8260C	T	
480-57451-A-6	W1004D	8260C	T	
480-57451-A-7	W1004S	8260C	T	
480-57451-A-8	DUP2	8260C	T	
480-57451-A-9	02FB	8260C	T	
480-57451-A-10	TB	8260C	T	
480-57458-L-1	OW-15D	8260C	T	
480-57458-L-2	OW-15S	8260C	T	
480-57562-E-2	PS-AS-INFLUENT	8260C	T	
480-57666-B-8	Duplicate	8260C	T	
480-57666-B-10	MW-13S	8260C	T	
480-57666-B-19	MW-16S	8260C	T	
480-57666-B-20	MW-16D	8260C	T	
480-57666-B-20~MS		8260C	T	12.5 uL

GC/MS VOA Worksheet

Batch Number: 480-175488

Method: 8260C

Analyst: Larson, Renee A

Date Open: Apr 13 2014 8:50PM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	2MTP_WRK_00030	3MTP_WRK_00033
480-57666-B-20~MS D		8260C	T	<2 SU	5 mL	5 mL	HP5973G		

GC/MS VOA Worksheet

Batch Number: 480-175488

Method: 8260C

Analyst: Larson, Renee A

Date Open: Apr 13 2014 8:50PM

Batch End:

Lab ID	Client ID	Method Chain	Basis	8260 CORP mix_00007	ADD CORP mix_00007	BFB_WRK_00033	Epichloro WRK_00003	G_8260_IS_00043	G_8260_Surr_00064
480-57666-B-20~MS D		8260C	T	12.5 uL				1 uL	1 uL

GC/MS VOA Worksheet

Batch Number: 480-175488

Method: 8260C

Analyst: Larson, Renee A

Date Open: Apr 13 2014 8:50PM

Batch End:

Lab ID	Client ID	Method Chain	Basis	GAS CORP mix_00020
480-57666-B-20~MS D		8260C	T	12.5 uL

Shipping and Receiving Documents



THE LEADER IN ENV

Temperature on Receipt _____
Drinking Water? Yes ☐ No ☒

Chain of
Custody Record

480-57666 Chain of Custody

TAL-4124 (1007)

Client		AECOM		Project Manager		Dino Zach		Project Number		280307	
Address		100 Corporate Plaza Suite 341		Telephone Number (Area Code)/Fax Number		716-836-4506		Lab Number		Bulfinch	
City		Amherst		Site Contact		D. Zach		Lab Contact		B. Fischer	
State		NY		Zip Code		14226		Carrier/Waybill Number			
Project Name and Location (State)		Scott Avenue 2014						Analysis (Attach list if more space is needed)		Page 1 of 2	
Contract/Purchase Order/Quote No.											

Special Instructions/
Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives				
			Aqueous	Soil	Sed.	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc	HOAc
MW-2	4/7/14	1310	X						3			
MW-11	4/7/14	1350	X						3			
MW-10	4/7/14	1425	X						3			
MW-6	4/7/14	1450	X						3			
Rinse	4/7/14	0800	X						3			
Trip	4/7/14		X						2			
MW-12	4/8/14	1315	X						3			
Duplicate	4/8/14	0800	X						3			
MW-9	4/8/14	1050	X						3			
MW-13S	4/8/14	1355	X						3			
MW-13D	4/8/14	1430	X						3			
MW-3	4/8/14	0930	X						3			

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown
Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other

Sample Disposal
☒ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

1. Relinquished By		Date	4/10/14	Time	1100hr
2. Relinquished By		Date	4/10/14	Time	1320
3. Relinquished By		Date		Time	

Comments
#2 3.1

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

Chain of Custody Record

TAL-4124 (1007)

Client	Address	City	State	Zip Code	Project Name and Location (State)	Contract/Purchase Order/Quote No.	Project Manager	Telephone Number (Area Code)/Fax Number	Site Contact	Lab Contact	Carrier/Waybill Number	Date	Chain of Custody Number
AECOM	100 Corporate Plaza	Amherst	NY	14226	Scott Avishon 2014		Dino Zack	716-836-4506	Budha	B. Fischer		4/10/14	280311
													Page 2 of 2

Analysis (Attach list if more space is needed)

Special Instructions/
Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	
MW-14D	4/9/14	0840	X							3			
MW-14S	4/9/14	0915	X							3			
MW-4	4/9/14	1325	X							3			
MW-8R	4/9/14	1230	X							3			
MW-15S	4/10/14	1050	X				3			3			X No preservative
MW-15D	4/10/14	1000	X							3			X No preservative
MW-16S	4/10/14	0910	X							3			X No preservative
MW-16D	4/10/14	0835	X							3			X No preservative

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Possible Hazard Identification	Sample Disposal	QC Requirements (Specify)
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown	☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months	(A fee may be assessed if samples are retained longer than 1 month)
Turn Around Time Required	Other STD	
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days	1. Relinquished By _____ Date 4/10/14 Time 1100hrs 2. Relinquished By _____ Date 4/10/14 Time 1300 3. Relinquished By _____ Date _____ Time _____	1. Received By _____ Date 4/10/14 Time 1035 2. Received By _____ Date 4-10-14 Time 1300 3. Received By _____ Date _____ Time _____

Comments: Note MW 15S and MW 16S have no preservative due to high pH of sample. 3.1#2

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

04/15/2014

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 480-57666-1

Login Number: 57666

List Source: TestAmerica Buffalo

List Number: 1

Creator: Stau, Brandon M

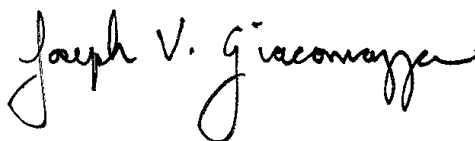
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature 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.	True	
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	aecom
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

Job Number: 480-57563-1

Job Description: Scott Aviation site

For:
AECOM, Inc.
100 Corporate Parkway
Suite 341
Amherst, NY 14226
Attention: Mr. Dino Zack



Approved for release.
Joe V Giacomazza
Project Management Assistant II
4/15/2014 12:13 PM

Designee for
Brian J Fischer, Manager of Project Management
10 Hazelwood Drive, Amherst, NY, 14228-2298
(716)504-9835
brian.fischer@testamericainc.com
04/15/2014

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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Job Narrative
480-57563-1

Receipt

The samples were received on 4/9/2014 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

Air Toxics

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

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57563-1

Client Sample ID: AS Effluent 2Q14

Lab Sample ID: 480-57563-21

Date Sampled: 04/07/2014 0800

Client Matrix: Air

Date Received: 04/09/2014 1030

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-70664	Instrument ID:	CHB.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	7003_017.D
Dilution:	289			Initial Weight/Volume:	35 mL
Analysis Date:	04/12/2014 0148			Final Weight/Volume:	200 mL
Prep Date:	04/12/2014 0148			Injection Volume:	5 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
1,1,1-Trichloroethane	ND		58	58
1,1,2,2-Tetrachloroethane	ND		58	58
1,1,2-Trichloroethane	ND		58	58
1,1-Dichloroethane	150		58	58
1,1-Dichloroethene	ND		58	58
1,2,4-Trichlorobenzene	ND		140	140
1,2,4-Trimethylbenzene	ND		58	58
1,2-Dibromoethane	ND		58	58
1,2-Dichlorobenzene	ND		58	58
1,2-Dichloroethane	ND		58	58
1,2-Dichloroethene, Total	5700		58	58
1,2-Dichloropropane	ND		58	58
1,2-Dichlorotetrafluoroethane	ND		58	58
1,3,5-Trimethylbenzene	ND		58	58
1,3-Butadiene	ND		58	58
1,3-Dichlorobenzene	ND		58	58
1,4-Dichlorobenzene	ND		58	58
1,4-Dioxane	ND		1400	1400
2,2,4-Trimethylpentane	ND		58	58
2-Chlorotoluene	ND		58	58
3-Chloropropene	ND		140	140
4-Ethyltoluene	ND		58	58
Acetone	ND		1400	1400
Benzene	ND		58	58
Bromodichloromethane	ND		58	58
Bromoethene(Vinyl Bromide)	ND		58	58
Bromoform	ND		58	58
Bromomethane	ND		58	58
Carbon disulfide	ND		140	140
Carbon tetrachloride	ND		58	58
Chlorobenzene	ND		58	58
Chloroethane	ND		140	140
Chloroform	ND		58	58
Chloromethane	ND		140	140
cis-1,2-Dichloroethene	5700		58	58
cis-1,3-Dichloropropene	ND		58	58
Cyclohexane	ND		58	58
Dibromochloromethane	ND		58	58
Dichlorodifluoromethane	ND		140	140
Ethylbenzene	ND		58	58
Freon TF	ND		58	58
Hexachlorobutadiene	ND		58	58
Isopropyl alcohol	ND		1400	1400
m,p-Xylene	ND		140	140
Methyl Butyl Ketone (2-Hexanone)	ND		140	140
Methyl Ethyl Ketone	ND		140	140

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57563-1

Client Sample ID: AS Effluent 2Q14

Lab Sample ID: 480-57563-21

Date Sampled: 04/07/2014 0800

Client Matrix: Air

Date Received: 04/09/2014 1030

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-70664	Instrument ID:	CHB.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	7003_017.D
Dilution:	289			Initial Weight/Volume:	35 mL
Analysis Date:	04/12/2014 0148			Final Weight/Volume:	200 mL
Prep Date:	04/12/2014 0148			Injection Volume:	5 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
methyl isobutyl ketone	ND		140	140
Methyl tert-butyl ether	ND		58	58
Methylene Chloride	ND		140	140
n-Heptane	ND		58	58
n-Hexane	ND		58	58
Styrene	ND		58	58
tert-Butyl alcohol	ND		1400	1400
Tetrachloroethene	ND		58	58
Tetrahydrofuran	ND		1400	1400
Toluene	ND		58	58
trans-1,2-Dichloroethene	ND		58	58
trans-1,3-Dichloropropene	ND		58	58
Trichloroethene	6300		58	58
Trichlorofluoromethane	ND		58	58
Vinyl chloride	390		58	58
Xylene (total)	ND		58	58
Xylene, o-	ND		58	58

Analyte	Result (ug/m3)	Qualifier	RL	RL
1,1,1-Trichloroethane	ND		320	320
1,1,2,2-Tetrachloroethane	ND		400	400
1,1,2-Trichloroethane	ND		320	320
1,1-Dichloroethane	610		230	230
1,1-Dichloroethene	ND		230	230
1,2,4-Trichlorobenzene	ND		1100	1100
1,2,4-Trimethylbenzene	ND		280	280
1,2-Dibromoethane	ND		440	440
1,2-Dichlorobenzene	ND		350	350
1,2-Dichloroethane	ND		230	230
1,2-Dichloroethene, Total	23000		230	230
1,2-Dichloropropane	ND		270	270
1,2-Dichlorotetrafluoroethane	ND		400	400
1,3,5-Trimethylbenzene	ND		280	280
1,3-Butadiene	ND		130	130
1,3-Dichlorobenzene	ND		350	350
1,4-Dichlorobenzene	ND		350	350
1,4-Dioxane	ND		5200	5200
2,2,4-Trimethylpentane	ND		270	270
2-Chlorotoluene	ND		300	300
3-Chloropropene	ND		450	450
4-Ethyltoluene	ND		280	280
Acetone	ND		3400	3400
Benzene	ND		180	180
Bromodichloromethane	ND		390	390
Bromoethene(Vinyl Bromide)	ND		250	250
Bromoform	ND		600	600

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57563-1

Client Sample ID: AS Effluent 2Q14

Lab Sample ID: 480-57563-21

Date Sampled: 04/07/2014 0800

Client Matrix: Air

Date Received: 04/09/2014 1030

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-70664	Instrument ID:	CHB.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	7003_017.D
Dilution:	289			Initial Weight/Volume:	35 mL
Analysis Date:	04/12/2014 0148			Final Weight/Volume:	200 mL
Prep Date:	04/12/2014 0148			Injection Volume:	5 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
Bromomethane	ND		220	220
Carbon disulfide	ND		450	450
Carbon tetrachloride	ND		360	360
Chlorobenzene	ND		270	270
Chloroethane	ND		380	380
Chloroform	ND		280	280
Chloromethane	ND		300	300
cis-1,2-Dichloroethene	23000		230	230
cis-1,3-Dichloropropene	ND		260	260
Cyclohexane	ND		200	200
Dibromochloromethane	ND		490	490
Dichlorodifluoromethane	ND		710	710
Ethylbenzene	ND		250	250
Freon TF	ND		440	440
Hexachlorobutadiene	ND		620	620
Isopropyl alcohol	ND		3600	3600
m,p-Xylene	ND		630	630
Methyl Butyl Ketone (2-Hexanone)	ND		590	590
Methyl Ethyl Ketone	ND		430	430
methyl isobutyl ketone	ND		590	590
Methyl tert-butyl ether	ND		210	210
Methylene Chloride	ND		500	500
n-Heptane	ND		240	240
n-Hexane	ND		200	200
Styrene	ND		250	250
tert-Butyl alcohol	ND		4400	4400
Tetrachloroethene	ND		390	390
Tetrahydrofuran	ND		4300	4300
Toluene	ND		220	220
trans-1,2-Dichloroethene	ND		230	230
trans-1,3-Dichloropropene	ND		260	260
Trichloroethene	34000		310	310
Trichlorofluoromethane	ND		320	320
Vinyl chloride	990		150	150
Xylene (total)	ND		250	250
Xylene, o-	ND		250	250

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57563-1

Client Sample ID: LRP Effluent 2Q14

Lab Sample ID: 480-57563-22

Date Sampled: 04/07/2014 0800

Client Matrix: Air

Date Received: 04/09/2014 1030

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-70664	Instrument ID:	CHB.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	7003_018.D
Dilution:	4.55			Initial Weight/Volume:	44 mL
Analysis Date:	04/12/2014 0240			Final Weight/Volume:	200 mL
Prep Date:	04/12/2014 0240			Injection Volume:	5 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
1,1,1-Trichloroethane	ND		0.91	0.91
1,1,2,2-Tetrachloroethane	ND		0.91	0.91
1,1,2-Trichloroethane	ND		0.91	0.91
1,1-Dichloroethane	2.2		0.91	0.91
1,1-Dichloroethene	ND		0.91	0.91
1,2,4-Trichlorobenzene	ND		2.3	2.3
1,2,4-Trimethylbenzene	ND		0.91	0.91
1,2-Dibromoethane	ND		0.91	0.91
1,2-Dichlorobenzene	ND		0.91	0.91
1,2-Dichloroethane	ND		0.91	0.91
1,2-Dichloroethene, Total	110		0.91	0.91
1,2-Dichloropropane	ND		0.91	0.91
1,2-Dichlorotetrafluoroethane	ND		0.91	0.91
1,3,5-Trimethylbenzene	ND		0.91	0.91
1,3-Butadiene	ND		0.91	0.91
1,3-Dichlorobenzene	ND		0.91	0.91
1,4-Dichlorobenzene	ND		0.91	0.91
1,4-Dioxane	ND		23	23
2,2,4-Trimethylpentane	ND		0.91	0.91
2-Chlorotoluene	ND		0.91	0.91
3-Chloropropene	ND		2.3	2.3
4-Ethyltoluene	ND		0.91	0.91
Acetone	ND		23	23
Benzene	ND		0.91	0.91
Bromodichloromethane	ND		0.91	0.91
Bromoethene(Vinyl Bromide)	ND		0.91	0.91
Bromoform	ND		0.91	0.91
Bromomethane	ND		0.91	0.91
Carbon disulfide	2.5		2.3	2.3
Carbon tetrachloride	ND		0.91	0.91
Chlorobenzene	ND		0.91	0.91
Chloroethane	ND		2.3	2.3
Chloroform	ND		0.91	0.91
Chloromethane	ND		2.3	2.3
cis-1,2-Dichloroethene	110		0.91	0.91
cis-1,3-Dichloropropene	ND		0.91	0.91
Cyclohexane	ND		0.91	0.91
Dibromochloromethane	ND		0.91	0.91
Dichlorodifluoromethane	ND		2.3	2.3
Ethylbenzene	ND		0.91	0.91
Freon TF	ND		0.91	0.91
Hexachlorobutadiene	ND		0.91	0.91
Isopropyl alcohol	ND		23	23
m,p-Xylene	ND		2.3	2.3
Methyl Butyl Ketone (2-Hexanone)	ND		2.3	2.3
Methyl Ethyl Ketone	ND		2.3	2.3

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57563-1

Client Sample ID: LRP Effluent 2Q14

Lab Sample ID: 480-57563-22

Date Sampled: 04/07/2014 0800

Client Matrix: Air

Date Received: 04/09/2014 1030

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-70664	Instrument ID:	CHB.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	7003_018.D
Dilution:	4.55			Initial Weight/Volume:	44 mL
Analysis Date:	04/12/2014 0240			Final Weight/Volume:	200 mL
Prep Date:	04/12/2014 0240			Injection Volume:	5 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
methyl isobutyl ketone	ND		2.3	2.3
Methyl tert-butyl ether	ND		0.91	0.91
Methylene Chloride	ND		2.3	2.3
n-Heptane	ND		0.91	0.91
n-Hexane	ND		0.91	0.91
Styrene	ND		0.91	0.91
tert-Butyl alcohol	ND		23	23
Tetrachloroethene	ND		0.91	0.91
Tetrahydrofuran	ND		23	23
Toluene	1.2		0.91	0.91
trans-1,2-Dichloroethene	ND		0.91	0.91
trans-1,3-Dichloropropene	ND		0.91	0.91
Trichloroethene	41		0.91	0.91
Trichlorofluoromethane	ND		0.91	0.91
Vinyl chloride	ND		0.91	0.91
Xylene (total)	ND		0.91	0.91
Xylene, o-	ND		0.91	0.91

Analyte	Result (ug/m3)	Qualifier	RL	RL
1,1,1-Trichloroethane	ND		5.0	5.0
1,1,2,2-Tetrachloroethane	ND		6.2	6.2
1,1,2-Trichloroethane	ND		5.0	5.0
1,1-Dichloroethane	9.1		3.7	3.7
1,1-Dichloroethene	ND		3.6	3.6
1,2,4-Trichlorobenzene	ND		17	17
1,2,4-Trimethylbenzene	ND		4.5	4.5
1,2-Dibromoethane	ND		7.0	7.0
1,2-Dichlorobenzene	ND		5.5	5.5
1,2-Dichloroethane	ND		3.7	3.7
1,2-Dichloroethene, Total	440		3.6	3.6
1,2-Dichloropropane	ND		4.2	4.2
1,2-Dichlorotetrafluoroethane	ND		6.4	6.4
1,3,5-Trimethylbenzene	ND		4.5	4.5
1,3-Butadiene	ND		2.0	2.0
1,3-Dichlorobenzene	ND		5.5	5.5
1,4-Dichlorobenzene	ND		5.5	5.5
1,4-Dioxane	ND		82	82
2,2,4-Trimethylpentane	ND		4.3	4.3
2-Chlorotoluene	ND		4.7	4.7
3-Chloropropene	ND		7.1	7.1
4-Ethyltoluene	ND		4.5	4.5
Acetone	ND		54	54
Benzene	ND		2.9	2.9
Bromodichloromethane	ND		6.1	6.1
Bromoethene(Vinyl Bromide)	ND		4.0	4.0
Bromoform	ND		9.4	9.4

Analytical Data

Client: AECOM, Inc.

Job Number: 480-57563-1

Client Sample ID: LRP Effluent 2Q14

Lab Sample ID: 480-57563-22

Date Sampled: 04/07/2014 0800

Client Matrix: Air

Date Received: 04/09/2014 1030

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-70664	Instrument ID:	CHB.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	7003_018.D
Dilution:	4.55			Initial Weight/Volume:	44 mL
Analysis Date:	04/12/2014 0240			Final Weight/Volume:	200 mL
Prep Date:	04/12/2014 0240			Injection Volume:	5 mL

Analyte	Result (ug/m3)	Qualifier	RL	RL
Bromomethane	ND		3.5	3.5
Carbon disulfide	7.8		7.1	7.1
Carbon tetrachloride	ND		5.7	5.7
Chlorobenzene	ND		4.2	4.2
Chloroethane	ND		6.0	6.0
Chloroform	ND		4.4	4.4
Chloromethane	ND		4.7	4.7
cis-1,2-Dichloroethene	450		3.6	3.6
cis-1,3-Dichloropropene	ND		4.1	4.1
Cyclohexane	ND		3.1	3.1
Dibromochloromethane	ND		7.8	7.8
Dichlorodifluoromethane	ND		11	11
Ethylbenzene	ND		4.0	4.0
Freon TF	ND		7.0	7.0
Hexachlorobutadiene	ND		9.7	9.7
Isopropyl alcohol	ND		56	56
m,p-Xylene	ND		9.9	9.9
Methyl Butyl Ketone (2-Hexanone)	ND		9.3	9.3
Methyl Ethyl Ketone	ND		6.7	6.7
methyl isobutyl ketone	ND		9.3	9.3
Methyl tert-butyl ether	ND		3.3	3.3
Methylene Chloride	ND		7.9	7.9
n-Heptane	ND		3.7	3.7
n-Hexane	ND		3.2	3.2
Styrene	ND		3.9	3.9
tert-Butyl alcohol	ND		69	69
Tetrachloroethene	ND		6.2	6.2
Tetrahydrofuran	ND		67	67
Toluene	4.5		3.4	3.4
trans-1,2-Dichloroethene	ND		3.6	3.6
trans-1,3-Dichloropropene	ND		4.1	4.1
Trichloroethene	220		4.9	4.9
Trichlorofluoromethane	ND		5.1	5.1
Vinyl chloride	ND		2.3	2.3
Xylene (total)	ND		4.0	4.0
Xylene, o-	ND		4.0	4.0

TO15

Volatile Organic Compounds in
Ambient Air

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 480-57563-1
SDG No.: _____
Matrix: Air Level: Low Lab File ID: 7003_003.D
Lab ID: LCS 200-70664/3 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	10.0	9.88	99	70-130	
1,1,2,2-Tetrachloroethane	10.0	9.40	94	70-130	
1,1,2-Trichloroethane	10.0	9.32	93	70-130	
1,1-Dichloroethane	10.0	8.61	86	70-130	
1,1-Dichloroethene	10.0	8.77	88	70-130	
1,2,4-Trichlorobenzene	10.0	9.08	91	70-130	
1,2,4-Trimethylbenzene	10.0	9.31	93	70-130	
1,2-Dibromoethane	10.0	9.64	96	70-130	
1,2-Dichlorobenzene	10.0	9.54	95	70-130	
1,2-Dichloroethane	10.0	9.79	98	70-130	
1,2-Dichloropropane	10.0	9.07	91	70-130	
1,2-Dichlorotetrafluoroethane	10.0	9.41	94	70-130	
1,3,5-Trimethylbenzene	10.0	9.57	96	70-130	
1,3-Butadiene	10.0	7.99	80	70-130	
1,3-Dichlorobenzene	10.0	9.55	96	70-130	
1,4-Dichlorobenzene	10.0	9.63	96	70-130	
1,4-Dioxane	10.0	8.71	87	70-130	
2,2,4-Trimethylpentane	10.0	9.31	93	70-130	
2-Chlorotoluene	10.0	9.44	94	70-130	
3-Chloropropene	10.0	8.01	80	70-130	
4-Ethyltoluene	10.0	9.80	98	70-130	
Acetone	10.0	9.79	98	70-130	
Benzene	10.0	9.11	91	70-130	
Bromodichloromethane	10.0	9.55	96	70-130	
Bromoethene (Vinyl Bromide)	10.0	8.62	86	70-130	
Bromoform	10.0	9.66	97	70-130	
Bromomethane	10.0	8.46	85	70-130	
Carbon disulfide	10.0	10.2	102	70-130	
Carbon tetrachloride	10.0	9.53	95	70-130	
Chlorobenzene	10.0	9.38	94	70-130	
Chloroethane	10.0	8.78	88	70-130	
Chloroform	10.0	9.23	92	70-130	
Chloromethane	10.0	7.99	80	70-130	
cis-1,2-Dichloroethene	10.0	8.84	88	70-130	
cis-1,3-Dichloropropene	10.0	9.58	96	70-130	
Cyclohexane	10.0	9.60	96	70-130	
Dibromochloromethane	10.0	9.61	96	70-130	
Dichlorodifluoromethane	10.0	9.05	91	70-130	
Ethylbenzene	10.0	9.45	95	70-130	
Freon TF	10.0	8.87	89	70-130	
Hexachlorobutadiene	10.0	8.94	89	70-130	
Isopropyl alcohol	10.0	8.09	81	70-130	

Column to be used to flag recovery and RPD values

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 480-57563-1
 SDG No.: _____
 Matrix: Air Level: Low Lab File ID: 7003_003.D
 Lab ID: LCS 200-70664/3 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
m,p-Xylene	20.0	19.1	95	70-130	
Methyl Butyl Ketone (2-Hexanone)	10.0	9.34	93	70-130	
Methyl Ethyl Ketone	10.0	8.42	84	70-130	
methyl isobutyl ketone	10.0	9.44	94	70-130	
Methyl tert-butyl ether	10.0	9.19	92	70-130	
Methylene Chloride	10.0	8.88	89	70-130	
n-Heptane	10.0	8.99	90	70-130	
n-Hexane	10.0	9.36	94	70-130	
Styrene	10.0	9.47	95	70-130	
tert-Butyl alcohol	10.0	8.65	87	70-130	
Tetrachloroethene	10.0	9.32	93	70-130	
Tetrahydrofuran	10.0	10.0	100	70-130	
Toluene	10.0	9.30	93	70-130	
trans-1,2-Dichloroethene	10.0	9.64	96	70-130	
trans-1,3-Dichloropropene	10.0	9.75	97	70-130	
Trichloroethene	10.0	9.18	92	70-130	
Trichlorofluoromethane	10.0	9.01	90	70-130	
Vinyl chloride	10.0	7.98	80	70-130	
Xylene, o-	10.0	9.35	94	70-130	

Column to be used to flag recovery and RPD values

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 480-57563-1
SDG No.: _____
Lab File ID: 7003_004.D Lab Sample ID: MB 200-70664/4
Matrix: Air Heated Purge: (Y/N) N
Instrument ID: CHB.i Date Analyzed: 04/11/2014 14:31
GC Column: RTX-624 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-70664/3	7003_003.D	04/11/2014 13:39
AS Effluent 2Q14	480-57563-21	7003_017.D	04/12/2014 01:48
LRP Effluent 2Q14	480-57563-22	7003_018.D	04/12/2014 02:40

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 480-57563-1
 SDG No.: _____
 Lab File ID: 6557_001.D BFB Injection Date: 03/14/2014
 Instrument ID: CHB.i BFB Injection Time: 10:21
 Analysis Batch No.: 69511

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	10.4
75	30.0 - 66.0% of mass 95	38.6
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 - 120.0% of mass 95	102.0
175	4.0 - 9.0 % of mass 174	7.3 (7.1)1
176	93.0 - 101.0% of mass 174	98.9 (97.0)1
177	5.0 - 9.0% of mass 176	6.5 (6.6)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 200-69511/3	6557_003.D	03/14/2014	12:11
	IC 200-69511/4	6557_004.D	03/14/2014	13:03
	IC 200-69511/5	6557_005.D	03/14/2014	13:55
	IC 200-69511/6	6557_006.D	03/14/2014	14:47
	ICIS 200-69511/7	6557_007.D	03/14/2014	15:39
	IC 200-69511/8	6557_008.D	03/14/2014	16:31
	IC 200-69511/9	6557_009.D	03/14/2014	17:24
	IC 200-69511/10	6557_010.D	03/14/2014	18:16
	ICV 200-69511/13	6557_013.D	03/14/2014	20:54

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 480-57563-1
 SDG No.: _____
 Lab File ID: 7003_001.D BFB Injection Date: 04/11/2014
 Instrument ID: CHB.i BFB Injection Time: 11:58
 Analysis Batch No.: 70664

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	11.3
75	30.0 - 66.0% of mass 95	41.0
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 - 120.0% of mass 95	98.5
175	4.0 - 9.0 % of mass 174	7.1 (7.2)1
176	93.0 - 101.0% of mass 174	95.1 (96.6)1
177	5.0 - 9.0% of mass 176	6.3 (6.6)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 200-70664/2	7003_002.D	04/11/2014	12:47
	LCS 200-70664/3	7003_003.D	04/11/2014	13:39
	MB 200-70664/4	7003_004.D	04/11/2014	14:31
AS Effluent 2Q14	480-57563-21	7003_017.D	04/12/2014	01:48
LRP Effluent 2Q14	480-57563-22	7003_018.D	04/12/2014	02:40

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

Lab Name: TestAmerica Burlington Job No.: 480-57563-1
 SDG No.: _____
 Sample No.: ICIS 200-69511/7 Date Analyzed: 03/14/2014 15:39
 Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm)
 Lab File ID (Standard): 6557_007.D Heated Purge: (Y/N) N
 Calibration ID: 25935

	BCM		DFB		CBZ	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	675362	9.96	3332868	11.37	2921558	15.46
UPPER LIMIT	945507	10.29	4666015	11.70	4090181	15.79
LOWER LIMIT	405217	9.63	1999721	11.04	1752935	15.13
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 200-69511/13		693647	9.96	3447206	11.37	2967928
						15.46

BCM = Bromochloromethane
 DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
 RT Limit = $\pm$ 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Burlington Job No.: 480-57563-1
 SDG No.: _____
 Sample No.: CCVIS 200-70664/2 Date Analyzed: 04/11/2014 12:47
 Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm)
 Lab File ID (Standard): 7003_002.D Heated Purge: (Y/N) N
 Calibration ID: 25935

	BCM		DFB		CBZ		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	773626	9.96	3662676	11.36	3207625	15.45	
UPPER LIMIT	1083076	10.29	5127746	11.69	4490675	15.78	
LOWER LIMIT	464176	9.63	2197606	11.03	1924575	15.12	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 200-70664/3		792133	9.96	3780025	11.36	3290507	15.45
MB 200-70664/4		764477	9.96	3697150	11.36	3188761	15.45
480-57563-21	AS Effluent 2Q14	720922	9.96	3412362	11.36	2969889	15.45
480-57563-22	LRP Effluent 2Q14	710628	9.96	3357080	11.36	2897711	15.45

BCM = Bromochloromethane
 DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
 RT Limit = $\pm$ 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 480-57563-1

SDG No.: _____

Client Sample ID: AS Effluent 2Q14 Lab Sample ID: 480-57563-21

Matrix: Air Lab File ID: 7003_017.D

Analysis Method: TO-15 Date Collected: 04/07/2014 08:00

Sample wt/vol: 35 (mL) Date Analyzed: 04/12/2014 01:48

Soil Aliquot Vol: _____ Dilution Factor: 289

Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)

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

Analysis Batch No.: 70664 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		58	58
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		58	58
79-00-5	1,1,2-Trichloroethane	133.41	ND		58	58
75-34-3	1,1-Dichloroethane	98.96	150		58	58
75-35-4	1,1-Dichloroethene	96.94	ND		58	58
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		140	140
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		58	58
106-93-4	1,2-Dibromoethane	187.87	ND		58	58
95-50-1	1,2-Dichlorobenzene	147.00	ND		58	58
107-06-2	1,2-Dichloroethane	98.96	ND		58	58
540-59-0	1,2-Dichloroethene, Total	96.94	5700		58	58
78-87-5	1,2-Dichloropropane	112.99	ND		58	58
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		58	58
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		58	58
106-99-0	1,3-Butadiene	54.09	ND		58	58
541-73-1	1,3-Dichlorobenzene	147.00	ND		58	58
106-46-7	1,4-Dichlorobenzene	147.00	ND		58	58
123-91-1	1,4-Dioxane	88.11	ND		1400	1400
540-84-1	2,2,4-Trimethylpentane	114.23	ND		58	58
95-49-8	2-Chlorotoluene	126.59	ND		58	58
107-05-1	3-Chloropropene	76.53	ND		140	140
622-96-8	4-Ethyltoluene	120.20	ND		58	58
67-64-1	Acetone	58.08	ND		1400	1400
71-43-2	Benzene	78.11	ND		58	58
75-27-4	Bromodichloromethane	163.83	ND		58	58
593-60-2	Bromoethene (Vinyl Bromide)	106.96	ND		58	58
75-25-2	Bromoform	252.75	ND		58	58
74-83-9	Bromomethane	94.94	ND		58	58
75-15-0	Carbon disulfide	76.14	ND		140	140
56-23-5	Carbon tetrachloride	153.81	ND		58	58
108-90-7	Chlorobenzene	112.56	ND		58	58
75-00-3	Chloroethane	64.52	ND		140	140
67-66-3	Chloroform	119.38	ND		58	58

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 480-57563-1

SDG No.: _____

Client Sample ID: AS Effluent 2Q14 Lab Sample ID: 480-57563-21

Matrix: Air Lab File ID: 7003_017.D

Analysis Method: TO-15 Date Collected: 04/07/2014 08:00

Sample wt/vol: 35 (mL) Date Analyzed: 04/12/2014 01:48

Soil Aliquot Vol: _____ Dilution Factor: 289

Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)

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

Analysis Batch No.: 70664 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
74-87-3	Chloromethane	50.49	ND		140	140
156-59-2	cis-1,2-Dichloroethene	96.94	5700		58	58
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		58	58
110-82-7	Cyclohexane	84.16	ND		58	58
124-48-1	Dibromochloromethane	208.29	ND		58	58
75-71-8	Dichlorodifluoromethane	120.91	ND		140	140
100-41-4	Ethylbenzene	106.17	ND		58	58
76-13-1	Freon TF	187.38	ND		58	58
87-68-3	Hexachlorobutadiene	260.76	ND		58	58
67-63-0	Isopropyl alcohol	60.10	ND		1400	1400
179601-23-1	m,p-Xylene	106.17	ND		140	140
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	ND		140	140
78-93-3	Methyl Ethyl Ketone	72.11	ND		140	140
108-10-1	methyl isobutyl ketone	100.16	ND		140	140
1634-04-4	Methyl tert-butyl ether	88.15	ND		58	58
75-09-2	Methylene Chloride	84.93	ND		140	140
142-82-5	n-Heptane	100.21	ND		58	58
110-54-3	n-Hexane	86.17	ND		58	58
100-42-5	Styrene	104.15	ND		58	58
75-65-0	tert-Butyl alcohol	74.12	ND		1400	1400
127-18-4	Tetrachloroethene	165.83	ND		58	58
109-99-9	Tetrahydrofuran	72.11	ND		1400	1400
108-88-3	Toluene	92.14	ND		58	58
156-60-5	trans-1,2-Dichloroethene	96.94	ND		58	58
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		58	58
79-01-6	Trichloroethene	131.39	6300		58	58
75-69-4	Trichlorofluoromethane	137.37	ND		58	58
75-01-4	Vinyl chloride	62.50	390		58	58
1330-20-7	Xylene (total)	106.17	ND		58	58
95-47-6	Xylene, o-	106.17	ND		58	58

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 480-57563-1

SDG No.: _____

Client Sample ID: AS Effluent 2Q14 Lab Sample ID: 480-57563-21

Matrix: Air Lab File ID: 7003_017.D

Analysis Method: TO-15 Date Collected: 04/07/2014 08:00

Sample wt/vol: 35 (mL) Date Analyzed: 04/12/2014 01:48

Soil Aliquot Vol: _____ Dilution Factor: 289

Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)

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

Analysis Batch No.: 70664 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		320	320
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		400	400
79-00-5	1,1,2-Trichloroethane	133.41	ND		320	320
75-34-3	1,1-Dichloroethane	98.96	610		230	230
75-35-4	1,1-Dichloroethene	96.94	ND		230	230
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1100	1100
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		280	280
106-93-4	1,2-Dibromoethane	187.87	ND		440	440
95-50-1	1,2-Dichlorobenzene	147.00	ND		350	350
107-06-2	1,2-Dichloroethane	98.96	ND		230	230
540-59-0	1,2-Dichloroethene, Total	96.94	23000		230	230
78-87-5	1,2-Dichloropropane	112.99	ND		270	270
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		400	400
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		280	280
106-99-0	1,3-Butadiene	54.09	ND		130	130
541-73-1	1,3-Dichlorobenzene	147.00	ND		350	350
106-46-7	1,4-Dichlorobenzene	147.00	ND		350	350
123-91-1	1,4-Dioxane	88.11	ND		5200	5200
540-84-1	2,2,4-Trimethylpentane	114.23	ND		270	270
95-49-8	2-Chlorotoluene	126.59	ND		300	300
107-05-1	3-Chloropropene	76.53	ND		450	450
622-96-8	4-Ethyltoluene	120.20	ND		280	280
67-64-1	Acetone	58.08	ND		3400	3400
71-43-2	Benzene	78.11	ND		180	180
75-27-4	Bromodichloromethane	163.83	ND		390	390
593-60-2	Bromoethene (Vinyl Bromide)	106.96	ND		250	250
75-25-2	Bromoform	252.75	ND		600	600
74-83-9	Bromomethane	94.94	ND		220	220
75-15-0	Carbon disulfide	76.14	ND		450	450
56-23-5	Carbon tetrachloride	153.81	ND		360	360
108-90-7	Chlorobenzene	112.56	ND		270	270
75-00-3	Chloroethane	64.52	ND		380	380
67-66-3	Chloroform	119.38	ND		280	280

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 480-57563-1

SDG No.: _____

Client Sample ID: AS Effluent 2Q14 Lab Sample ID: 480-57563-21

Matrix: Air Lab File ID: 7003_017.D

Analysis Method: TO-15 Date Collected: 04/07/2014 08:00

Sample wt/vol: 35 (mL) Date Analyzed: 04/12/2014 01:48

Soil Aliquot Vol: _____ Dilution Factor: 289

Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)

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

Analysis Batch No.: 70664 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
74-87-3	Chloromethane	50.49	ND		300	300
156-59-2	cis-1,2-Dichloroethene	96.94	23000		230	230
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		260	260
110-82-7	Cyclohexane	84.16	ND		200	200
124-48-1	Dibromochloromethane	208.29	ND		490	490
75-71-8	Dichlorodifluoromethane	120.91	ND		710	710
100-41-4	Ethylbenzene	106.17	ND		250	250
76-13-1	Freon TF	187.38	ND		440	440
87-68-3	Hexachlorobutadiene	260.76	ND		620	620
67-63-0	Isopropyl alcohol	60.10	ND		3600	3600
179601-23-1	m,p-Xylene	106.17	ND		630	630
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	ND		590	590
78-93-3	Methyl Ethyl Ketone	72.11	ND		430	430
108-10-1	methyl isobutyl ketone	100.16	ND		590	590
1634-04-4	Methyl tert-butyl ether	88.15	ND		210	210
75-09-2	Methylene Chloride	84.93	ND		500	500
142-82-5	n-Heptane	100.21	ND		240	240
110-54-3	n-Hexane	86.17	ND		200	200
100-42-5	Styrene	104.15	ND		250	250
75-65-0	tert-Butyl alcohol	74.12	ND		4400	4400
127-18-4	Tetrachloroethene	165.83	ND		390	390
109-99-9	Tetrahydrofuran	72.11	ND		4300	4300
108-88-3	Toluene	92.14	ND		220	220
156-60-5	trans-1,2-Dichloroethene	96.94	ND		230	230
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		260	260
79-01-6	Trichloroethene	131.39	34000		310	310
75-69-4	Trichlorofluoromethane	137.37	ND		320	320
75-01-4	Vinyl chloride	62.50	990		150	150
1330-20-7	Xylene (total)	106.17	ND		250	250
95-47-6	Xylene, o-	106.17	ND		250	250

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\Btv-lims1\chromdata\CHB.i\20140411-7003.b\7003_017.D
 Lims ID: 480-57563-A-21 Lab Sample ID: 200-57563-21
 Client ID: AS Effluent 2Q14
 Sample Type: Client
 Inject. Date: 12-Apr-2014 01:48:30 ALS Bottle#: 15 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 289.0000
 Sample Info: 200-0007003-017
 Misc. Info.: 57563-21
 Operator ID: pad Instrument ID: CHB.i
 Method: \\Btv-lims1\chromdata\CHB.i\20140411-7003.b\TO15_LLNJ_TO3.m
 Limit Group: AI_TO15_ICAL
 Last Update: 14-Apr-2014 11:42:40 Calib Date: 14-Mar-2014 18:16:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal/External Standard Quant By: Initial Calibration
 Last ICal File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: daiglep

Date: 14-Apr-2014 10:44:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
5 Dichlorodifluoromethane	85		3.235					
7 1,2-Dichloro-1,1,2,2-tetra	85		3.464					
8 Chloromethane	50		3.603					
10 Vinyl chloride	62	3.832	3.832	0.000	82	44599	1.34	
11 Butadiene	54		3.902					
12 Bromomethane	94		4.622					
14 Chloroethane	64		4.868					
16 Vinyl bromide	106		5.295					
17 Trichlorofluoromethane	101		5.385					
23 1,1,2-Trichloro-1,2,2-trif	101		6.437					
24 1,1-Dichloroethene	96	6.527	6.522	0.005	69	10592	0.1344	
25 Acetone	43		6.709					
26 Isopropyl alcohol	45		6.906					
27 Carbon disulfide	76		6.949					
29 3-Chloro-1-propene	41		7.248					
31 Methylene Chloride	49		7.515					
32 2-Methyl-2-propanol	59		7.616					
33 Methyl tert-butyl ether	73		7.840					
34 trans-1,2-Dichloroethene	61		7.910					
36 Hexane	57		8.219					
* 44 Chlorobromomethane	128	9.959	9.959	0.000	68	720922	10.0	
37 1,1-Dichloroethane	63	8.678	8.678	0.000	94	56437	0.5172	
39 cis-1,2-Dichloroethene	96	9.585	9.585	0.000	87	1734549	19.8	
40 2-Butanone (MEK)	72		9.591					
43 Tetrahydrofuran	42		9.954					
S 42 1,2-Dichloroethene, Total	61				0		19.8	
45 Chloroform	83		10.028					
46 Cyclohexane	84		10.269					
47 1,1,1-Trichloroethane	97		10.279					
48 Carbon tetrachloride	117		10.471					
49 Isooctane	57		10.744					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
50 Benzene	78		10.813					
51 1,2-Dichloroethane	62		10.930					
52 n-Heptane	43		10.989					
* 54 1,4-Difluorobenzene	114	11.357	11.357	0.000	91	3412362	10.0	
57 Trichloroethene	95	11.715	11.715	0.000	93	2408692	21.7	
58 1,2-Dichloropropane	63		12.110					
60 1,4-Dioxane	88		12.227					
62 Dichlorobromomethane	83		12.462					
64 cis-1,3-Dichloropropene	75		13.092					
65 4-Methyl-2-pentanone (MIBK)	43		13.247					
68 Toluene	92	13.508	13.519	-0.011	66	8232	0.0448	
70 trans-1,3-Dichloropropene	75		13.892					
71 1,1,2-Trichloroethane	83		14.165					
72 Tetrachloroethene	166		14.271					
73 2-Hexanone	43		14.415					
74 Chlorodibromomethane	129		14.704					
75 Ethylene Dibromide	107		14.906					
* 76 Chlorobenzene-d5	117	15.445	15.445	0.000	81	2969889	10.0	
77 Chlorobenzene	112		15.488					
79 Ethylbenzene	91		15.547					
80 m-Xylene & p-Xylene	106		15.691					
S 81 Xylenes, Total	106		16.000					
82 o-Xylene	106		16.198					
83 Styrene	104		16.225					
84 Bromoform	173		16.523					
\$ 86 4-Bromofluorobenzene	95	16.865	16.865	0.000	98	1869117	NC	
87 1,1,2,2-Tetrachloroethane	83		17.020					
91 4-Ethyltoluene	105		17.201					
92 2-Chlorotoluene	91		17.249					
93 1,3,5-Trimethylbenzene	105		17.271					
96 1,2,4-Trimethylbenzene	105		17.724					
99 1,3-Dichlorobenzene	146		18.151					
100 1,4-Dichlorobenzene	146		18.269					
104 1,2-Dichlorobenzene	146		18.770					
107 1,2,4-Trichlorobenzene	180		21.215					
108 Hexachlorobutadiene	225		21.375					

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140411-7003.b\7003_017.D

Injection Date: 12-Apr-2014 01:48:30

Instrument ID: CHB.i

Operator ID: pad

Lims ID: 480-57563-A-21

Lab Sample ID: 200-57563-21

Worklist Smp#: 17

Client ID: AS Effluent 2Q14

Purge Vol: 5.000 mL

Dil. Factor: 289.0000

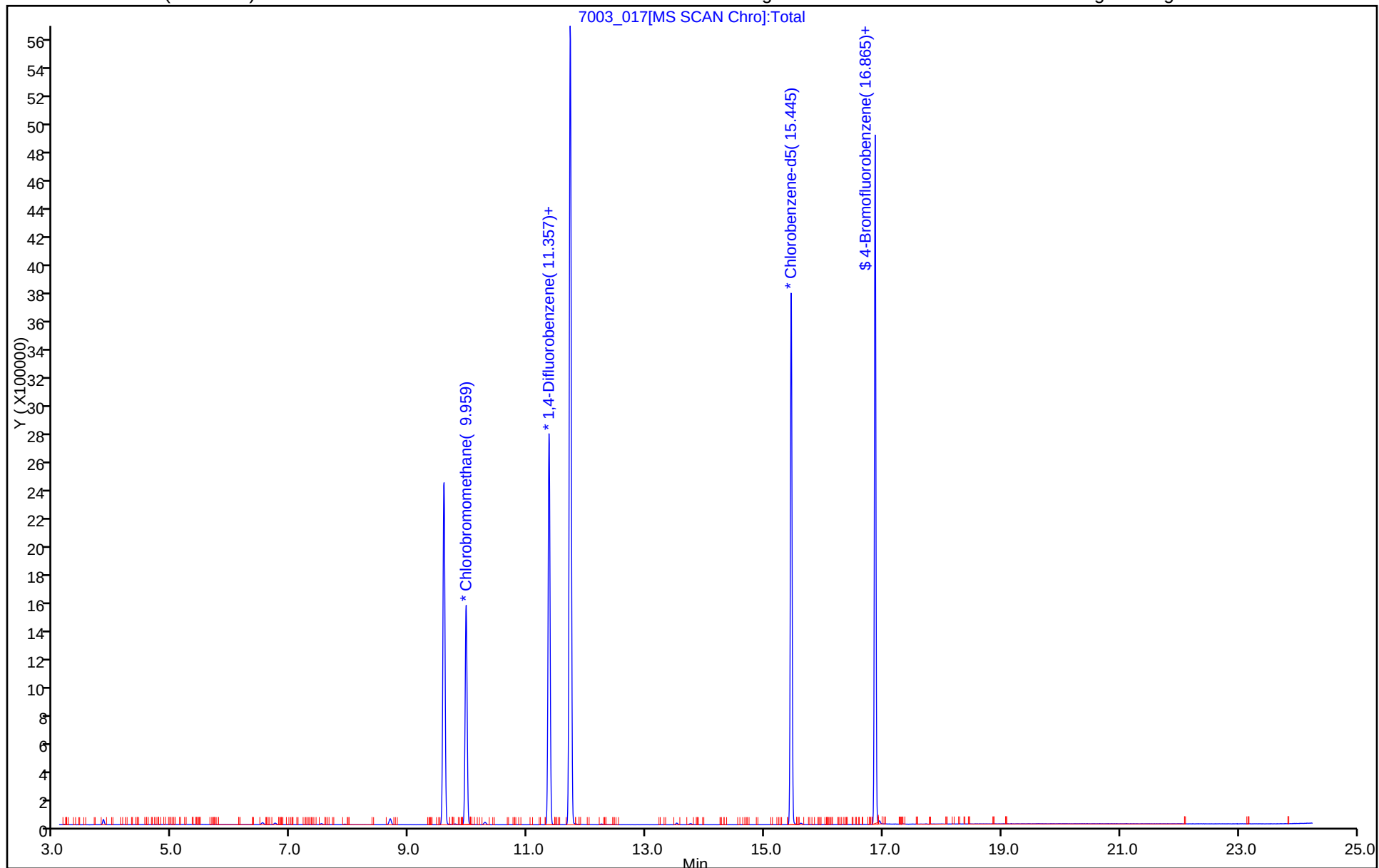
ALS Bottle#: 15

Method: TO15_LL NJ_TO3

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140411-7003.b\7003_017.D

Injection Date: 12-Apr-2014 01:48:30

Instrument ID: CHB.i

Lims ID: 480-57563-A-21

Lab Sample ID: 200-57563-21

Client ID: AS Effluent 2Q14

Operator ID: pad

ALS Bottle#: 15

Worklist Smp#: 17

Purge Vol: 5.000 mL

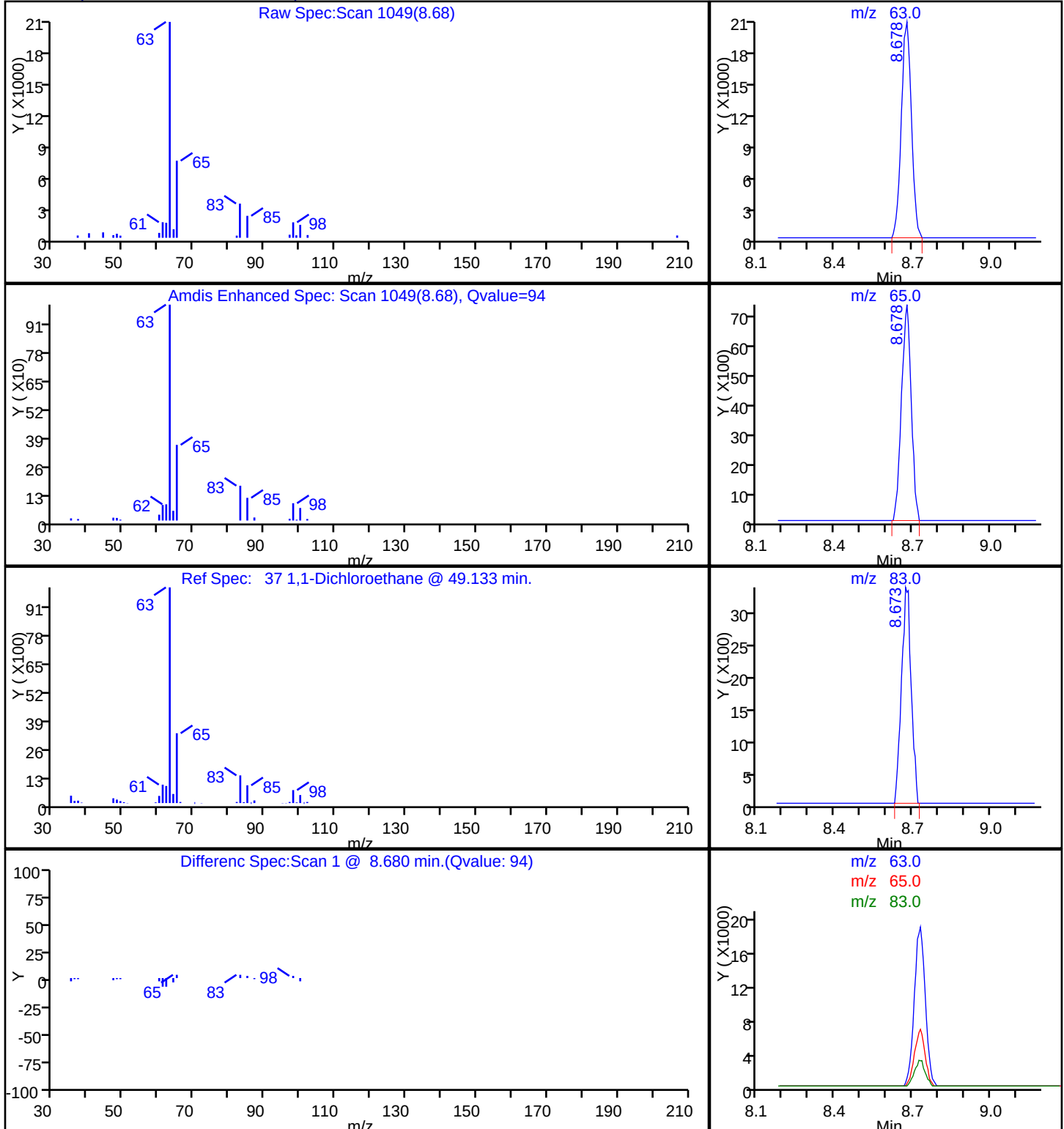
Dil. Factor: 289.0000

Method: TO15_LLNJ_TO3

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

37 1,1-Dichloroethane, CAS: 75-34-3

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140411-7003.b\7003_017.D

Injection Date: 12-Apr-2014 01:48:30

Instrument ID: CHB.i

Lims ID: 480-57563-A-21

Lab Sample ID: 200-57563-21

Client ID: AS Effluent 2Q14

Operator ID: pad

ALS Bottle#: 15

Worklist Smp#: 17

Purge Vol: 5.000 mL

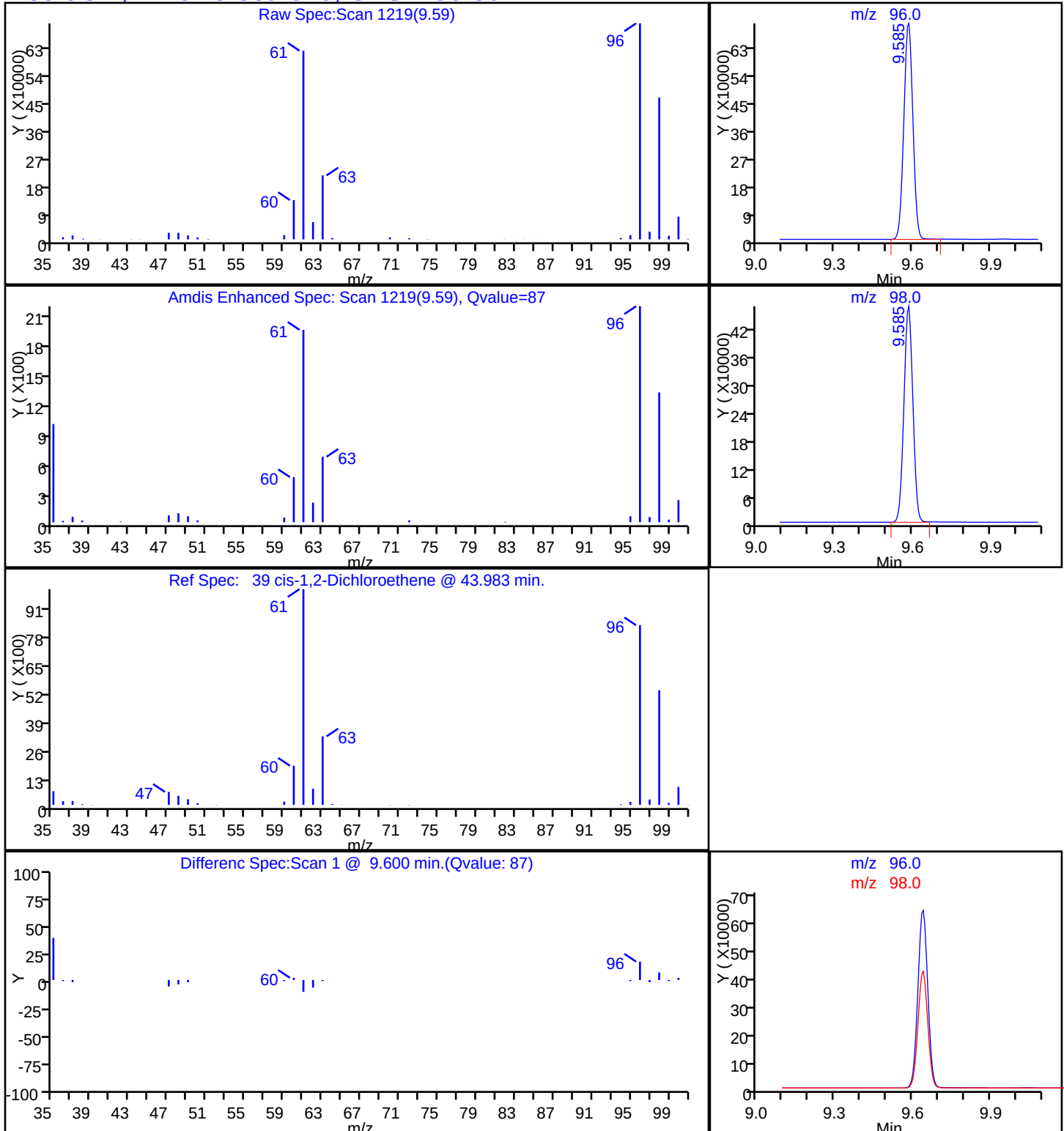
Dil. Factor: 289.0000

Method: TO15_LLNJ_TO3

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

39 cis-1,2-Dichloroethene, CAS: 156-59-2

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140411-7003.b\7003_017.D

Injection Date: 12-Apr-2014 01:48:30

Instrument ID: CHB.i

Lims ID: 480-57563-A-21

Lab Sample ID: 200-57563-21

Client ID: AS Effluent 2Q14

Operator ID: pad

ALS Bottle#: 15

Worklist Smp#: 17

Purge Vol: 5.000 mL

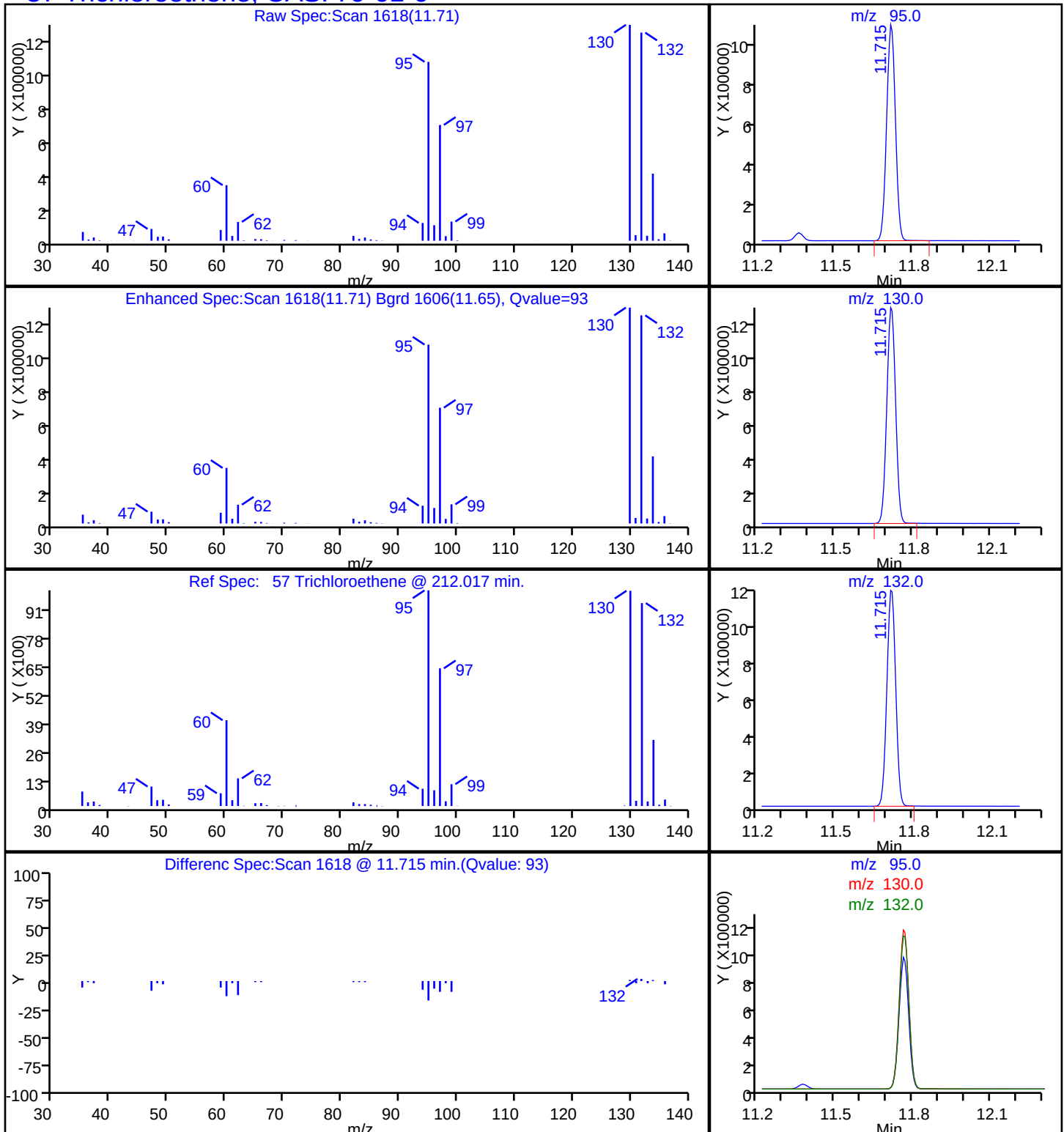
Dil. Factor: 289.0000

Method: TO15_LLNI_TO3

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

57 Trichloroethene, CAS: 79-01-6

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140411-7003.b\7003_017.D

Injection Date: 12-Apr-2014 01:48:30

Instrument ID: CHB.i

Lims ID: 480-57563-A-21

Lab Sample ID: 200-57563-21

Client ID: AS Effluent 2Q14

Operator ID: pad

ALS Bottle#: 15

Worklist Smp#: 17

Purge Vol: 5.000 mL

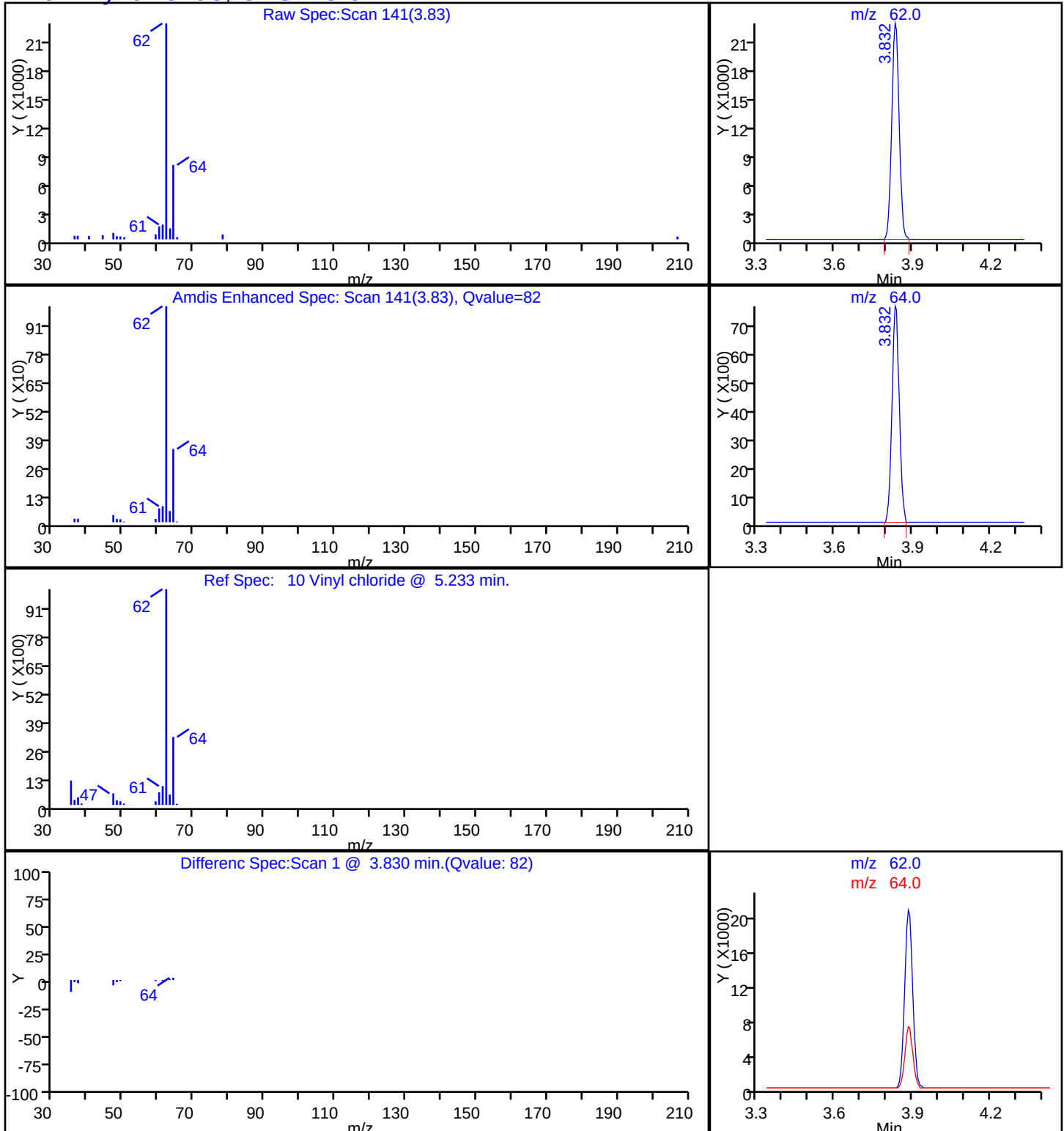
Dil. Factor: 289.0000

Method: TO15_LLNJ_TO3

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

10 Vinyl chloride, CAS: 75-01-4

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 480-57563-1

SDG No.: _____

Client Sample ID: LRP Effluent 2Q14 Lab Sample ID: 480-57563-22

Matrix: Air Lab File ID: 7003_018.D

Analysis Method: TO-15 Date Collected: 04/07/2014 08:00

Sample wt/vol: 44 (mL) Date Analyzed: 04/12/2014 02:40

Soil Aliquot Vol: _____ Dilution Factor: 4.55

Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)

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

Analysis Batch No.: 70664 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.91	0.91
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.91	0.91
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.91	0.91
75-34-3	1,1-Dichloroethane	98.96	2.2		0.91	0.91
75-35-4	1,1-Dichloroethene	96.94	ND		0.91	0.91
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		2.3	2.3
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.91	0.91
106-93-4	1,2-Dibromoethane	187.87	ND		0.91	0.91
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.91	0.91
107-06-2	1,2-Dichloroethane	98.96	ND		0.91	0.91
540-59-0	1,2-Dichloroethene, Total	96.94	110		0.91	0.91
78-87-5	1,2-Dichloropropane	112.99	ND		0.91	0.91
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.91	0.91
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.91	0.91
106-99-0	1,3-Butadiene	54.09	ND		0.91	0.91
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.91	0.91
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.91	0.91
123-91-1	1,4-Dioxane	88.11	ND		23	23
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.91	0.91
95-49-8	2-Chlorotoluene	126.59	ND		0.91	0.91
107-05-1	3-Chloropropene	76.53	ND		2.3	2.3
622-96-8	4-Ethyltoluene	120.20	ND		0.91	0.91
67-64-1	Acetone	58.08	ND		23	23
71-43-2	Benzene	78.11	ND		0.91	0.91
75-27-4	Bromodichloromethane	163.83	ND		0.91	0.91
593-60-2	Bromoethene (Vinyl Bromide)	106.96	ND		0.91	0.91
75-25-2	Bromoform	252.75	ND		0.91	0.91
74-83-9	Bromomethane	94.94	ND		0.91	0.91
75-15-0	Carbon disulfide	76.14	2.5		2.3	2.3
56-23-5	Carbon tetrachloride	153.81	ND		0.91	0.91
108-90-7	Chlorobenzene	112.56	ND		0.91	0.91
75-00-3	Chloroethane	64.52	ND		2.3	2.3
67-66-3	Chloroform	119.38	ND		0.91	0.91

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 480-57563-1

SDG No.: _____

Client Sample ID: LRP Effluent 2Q14 Lab Sample ID: 480-57563-22

Matrix: Air Lab File ID: 7003_018.D

Analysis Method: TO-15 Date Collected: 04/07/2014 08:00

Sample wt/vol: 44 (mL) Date Analyzed: 04/12/2014 02:40

Soil Aliquot Vol: _____ Dilution Factor: 4.55

Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)

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

Analysis Batch No.: 70664 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
74-87-3	Chloromethane	50.49	ND		2.3	2.3
156-59-2	cis-1,2-Dichloroethene	96.94	110		0.91	0.91
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.91
110-82-7	Cyclohexane	84.16	ND		0.91	0.91
124-48-1	Dibromochloromethane	208.29	ND		0.91	0.91
75-71-8	Dichlorodifluoromethane	120.91	ND		2.3	2.3
100-41-4	Ethylbenzene	106.17	ND		0.91	0.91
76-13-1	Freon TF	187.38	ND		0.91	0.91
87-68-3	Hexachlorobutadiene	260.76	ND		0.91	0.91
67-63-0	Isopropyl alcohol	60.10	ND		23	23
179601-23-1	m,p-Xylene	106.17	ND		2.3	2.3
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	ND		2.3	2.3
78-93-3	Methyl Ethyl Ketone	72.11	ND		2.3	2.3
108-10-1	methyl isobutyl ketone	100.16	ND		2.3	2.3
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.91	0.91
75-09-2	Methylene Chloride	84.93	ND		2.3	2.3
142-82-5	n-Heptane	100.21	ND		0.91	0.91
110-54-3	n-Hexane	86.17	ND		0.91	0.91
100-42-5	Styrene	104.15	ND		0.91	0.91
75-65-0	tert-Butyl alcohol	74.12	ND		23	23
127-18-4	Tetrachloroethene	165.83	ND		0.91	0.91
109-99-9	Tetrahydrofuran	72.11	ND		23	23
108-88-3	Toluene	92.14	1.2		0.91	0.91
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.91	0.91
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.91
79-01-6	Trichloroethene	131.39	41		0.91	0.91
75-69-4	Trichlorofluoromethane	137.37	ND		0.91	0.91
75-01-4	Vinyl chloride	62.50	ND		0.91	0.91
1330-20-7	Xylene (total)	106.17	ND		0.91	0.91
95-47-6	Xylene, o-	106.17	ND		0.91	0.91

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 480-57563-1

SDG No.: _____

Client Sample ID: LRP Effluent 2Q14 Lab Sample ID: 480-57563-22

Matrix: Air Lab File ID: 7003_018.D

Analysis Method: TO-15 Date Collected: 04/07/2014 08:00

Sample wt/vol: 44 (mL) Date Analyzed: 04/12/2014 02:40

Soil Aliquot Vol: _____ Dilution Factor: 4.55

Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)

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

Analysis Batch No.: 70664 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		5.0	5.0
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		6.2	6.2
79-00-5	1,1,2-Trichloroethane	133.41	ND		5.0	5.0
75-34-3	1,1-Dichloroethane	98.96	9.1		3.7	3.7
75-35-4	1,1-Dichloroethene	96.94	ND		3.6	3.6
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		17	17
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		4.5	4.5
106-93-4	1,2-Dibromoethane	187.87	ND		7.0	7.0
95-50-1	1,2-Dichlorobenzene	147.00	ND		5.5	5.5
107-06-2	1,2-Dichloroethane	98.96	ND		3.7	3.7
540-59-0	1,2-Dichloroethene, Total	96.94	440		3.6	3.6
78-87-5	1,2-Dichloropropane	112.99	ND		4.2	4.2
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		6.4	6.4
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		4.5	4.5
106-99-0	1,3-Butadiene	54.09	ND		2.0	2.0
541-73-1	1,3-Dichlorobenzene	147.00	ND		5.5	5.5
106-46-7	1,4-Dichlorobenzene	147.00	ND		5.5	5.5
123-91-1	1,4-Dioxane	88.11	ND		82	82
540-84-1	2,2,4-Trimethylpentane	114.23	ND		4.3	4.3
95-49-8	2-Chlorotoluene	126.59	ND		4.7	4.7
107-05-1	3-Chloropropene	76.53	ND		7.1	7.1
622-96-8	4-Ethyltoluene	120.20	ND		4.5	4.5
67-64-1	Acetone	58.08	ND		54	54
71-43-2	Benzene	78.11	ND		2.9	2.9
75-27-4	Bromodichloromethane	163.83	ND		6.1	6.1
593-60-2	Bromoethene (Vinyl Bromide)	106.96	ND		4.0	4.0
75-25-2	Bromoform	252.75	ND		9.4	9.4
74-83-9	Bromomethane	94.94	ND		3.5	3.5
75-15-0	Carbon disulfide	76.14	7.8		7.1	7.1
56-23-5	Carbon tetrachloride	153.81	ND		5.7	5.7
108-90-7	Chlorobenzene	112.56	ND		4.2	4.2
75-00-3	Chloroethane	64.52	ND		6.0	6.0
67-66-3	Chloroform	119.38	ND		4.4	4.4

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 480-57563-1

SDG No.: _____

Client Sample ID: LRP Effluent 2Q14 Lab Sample ID: 480-57563-22

Matrix: Air Lab File ID: 7003_018.D

Analysis Method: TO-15 Date Collected: 04/07/2014 08:00

Sample wt/vol: 44 (mL) Date Analyzed: 04/12/2014 02:40

Soil Aliquot Vol: _____ Dilution Factor: 4.55

Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)

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

Analysis Batch No.: 70664 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
74-87-3	Chloromethane	50.49	ND		4.7	4.7
156-59-2	cis-1,2-Dichloroethene	96.94	450		3.6	3.6
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		4.1	4.1
110-82-7	Cyclohexane	84.16	ND		3.1	3.1
124-48-1	Dibromochloromethane	208.29	ND		7.8	7.8
75-71-8	Dichlorodifluoromethane	120.91	ND		11	11
100-41-4	Ethylbenzene	106.17	ND		4.0	4.0
76-13-1	Freon TF	187.38	ND		7.0	7.0
87-68-3	Hexachlorobutadiene	260.76	ND		9.7	9.7
67-63-0	Isopropyl alcohol	60.10	ND		56	56
179601-23-1	m,p-Xylene	106.17	ND		9.9	9.9
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	ND		9.3	9.3
78-93-3	Methyl Ethyl Ketone	72.11	ND		6.7	6.7
108-10-1	methyl isobutyl ketone	100.16	ND		9.3	9.3
1634-04-4	Methyl tert-butyl ether	88.15	ND		3.3	3.3
75-09-2	Methylene Chloride	84.93	ND		7.9	7.9
142-82-5	n-Heptane	100.21	ND		3.7	3.7
110-54-3	n-Hexane	86.17	ND		3.2	3.2
100-42-5	Styrene	104.15	ND		3.9	3.9
75-65-0	tert-Butyl alcohol	74.12	ND		69	69
127-18-4	Tetrachloroethene	165.83	ND		6.2	6.2
109-99-9	Tetrahydrofuran	72.11	ND		67	67
108-88-3	Toluene	92.14	4.5		3.4	3.4
156-60-5	trans-1,2-Dichloroethene	96.94	ND		3.6	3.6
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		4.1	4.1
79-01-6	Trichloroethene	131.39	220		4.9	4.9
75-69-4	Trichlorofluoromethane	137.37	ND		5.1	5.1
75-01-4	Vinyl chloride	62.50	ND		2.3	2.3
1330-20-7	Xylene (total)	106.17	ND		4.0	4.0
95-47-6	Xylene, o-	106.17	ND		4.0	4.0

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\Btv-lims1\chromdata\CHB.i\20140411-7003.b\7003_018.D
 Lims ID: 480-57563-A-22 Lab Sample ID: 200-57563-22
 Client ID: LRP Effluent 2Q14
 Sample Type: Client
 Inject. Date: 12-Apr-2014 02:40:30 ALS Bottle#: 16 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 4.5500
 Sample Info: 200-0007003-018
 Misc. Info.: 57563-22
 Operator ID: pad Instrument ID: CHB.i
 Method: \\Btv-lims1\chromdata\CHB.i\20140411-7003.b\TO15_LLNJ_TO3.m
 Limit Group: AI_TO15_ICAL
 Last Update: 14-Apr-2014 11:42:40 Calib Date: 14-Mar-2014 18:16:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal/External Standard Quant By: Initial Calibration
 Last ICal File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: daiglep

Date: 14-Apr-2014 10:46:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
5 Dichlorodifluoromethane	85	3.235	3.235	-0.001	74	9877	0.0952	
7 1,2-Dichloro-1,1,2,2-tetra	85		3.464					
8 Chloromethane	50		3.603					
10 Vinyl chloride	62	3.832	3.832	0.000	33	4063	0.1239	
11 Butadiene	54		3.902					
12 Bromomethane	94		4.622					
14 Chloroethane	64	4.868	4.868	0.000	69	8212	0.3291	
16 Vinyl bromide	106		5.295					
17 Trichlorofluoromethane	101		5.385					
23 1,1,2-Trichloro-1,2,2-trif	101		6.437					
24 1,1-Dichloroethene	96		6.522					
25 Acetone	43		6.709					
26 Isopropyl alcohol	45		6.906					
27 Carbon disulfide	76	6.949	6.949	0.000	97	96225	0.5523	
29 3-Chloro-1-propene	41		7.248					
31 Methylene Chloride	49		7.515					
32 2-Methyl-2-propanol	59		7.616					
33 Methyl tert-butyl ether	73		7.840					
34 trans-1,2-Dichloroethene	61		7.910					
36 Hexane	57		8.219					
* 44 Chlorobromomethane	128	9.959	9.959	0.000	68	710628	10.0	
37 1,1-Dichloroethane	63	8.673	8.678	-0.005	90	52984	0.4926	
39 cis-1,2-Dichloroethene	96	9.585	9.585	0.000	86	2156816	25.0	
40 2-Butanone (MEK)	72		9.591					
43 Tetrahydrofuran	42		9.954					
S 42 1,2-Dichloroethene, Total	61				0		25.0	
45 Chloroform	83		10.028					
46 Cyclohexane	84		10.269					
47 1,1,1-Trichloroethane	97		10.279					
48 Carbon tetrachloride	117		10.471					
49 Isooctane	57		10.744					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
50 Benzene	78	10.813	10.813	0.000	70	15018	0.0685	
51 1,2-Dichloroethane	62		10.930					
52 n-Heptane	43		10.989					
* 54 1,4-Difluorobenzene	114	11.357	11.357	0.000	91	3357080	10.0	
57 Trichloroethene	95	11.715	11.715	0.000	93	977222	8.94	
58 1,2-Dichloropropane	63		12.110					
60 1,4-Dioxane	88		12.227					
62 Dichlorobromomethane	83		12.462					
64 cis-1,3-Dichloropropene	75		13.092					
65 4-Methyl-2-pentanone (MIBK)	43		13.247					
68 Toluene	92	13.519	13.519	0.000	92	47369	0.2640	
70 trans-1,3-Dichloropropene	75		13.892					
71 1,1,2-Trichloroethane	83		14.165					
72 Tetrachloroethene	166		14.271					
73 2-Hexanone	43		14.415					
74 Chlorodibromomethane	129		14.704					
75 Ethylene Dibromide	107		14.906					
* 76 Chlorobenzene-d5	117	15.445	15.445	0.000	79	2897711	10.0	
77 Chlorobenzene	112		15.488					
79 Ethylbenzene	91	15.547	15.547	0.000	81	16301	0.0452	
80 m-Xylene & p-Xylene	106	15.691	15.691	0.000	99	25612	0.1615	
S 81 Xylenes, Total	106				0		0.2084	
82 o-Xylene	106	16.203	16.198	0.005	83	7711	0.0469	
83 Styrene	104		16.225					
84 Bromoform	173		16.523					
\$ 86 4-Bromofluorobenzene	95	16.865	16.865	0.000	98	1818704	NC	
87 1,1,2,2-Tetrachloroethane	83		17.020					
91 4-Ethyltoluene	105		17.201					
92 2-Chlorotoluene	91		17.249					
93 1,3,5-Trimethylbenzene	105		17.271					
96 1,2,4-Trimethylbenzene	105	17.719	17.724	-0.005	86	20601	0.0511	
99 1,3-Dichlorobenzene	146		18.151					
100 1,4-Dichlorobenzene	146		18.269					
104 1,2-Dichlorobenzene	146		18.770					
107 1,2,4-Trichlorobenzene	180		21.215					
108 Hexachlorobutadiene	225		21.375					

Report Date: 14-Apr-2014 11:43:01

Chrom Revision: 2.2 10-Apr-2014 15:11:30

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140411-7003.b\7003_018.D

Injection Date: 12-Apr-2014 02:40:30

Instrument ID: CHB.i

Operator ID: pad

Lims ID: 480-57563-A-22

Lab Sample ID: 200-57563-22

Worklist Smp#: 18

Client ID: LRP Effluent 2Q14

Purge Vol: 5.000 mL

Dil. Factor: 4.5500

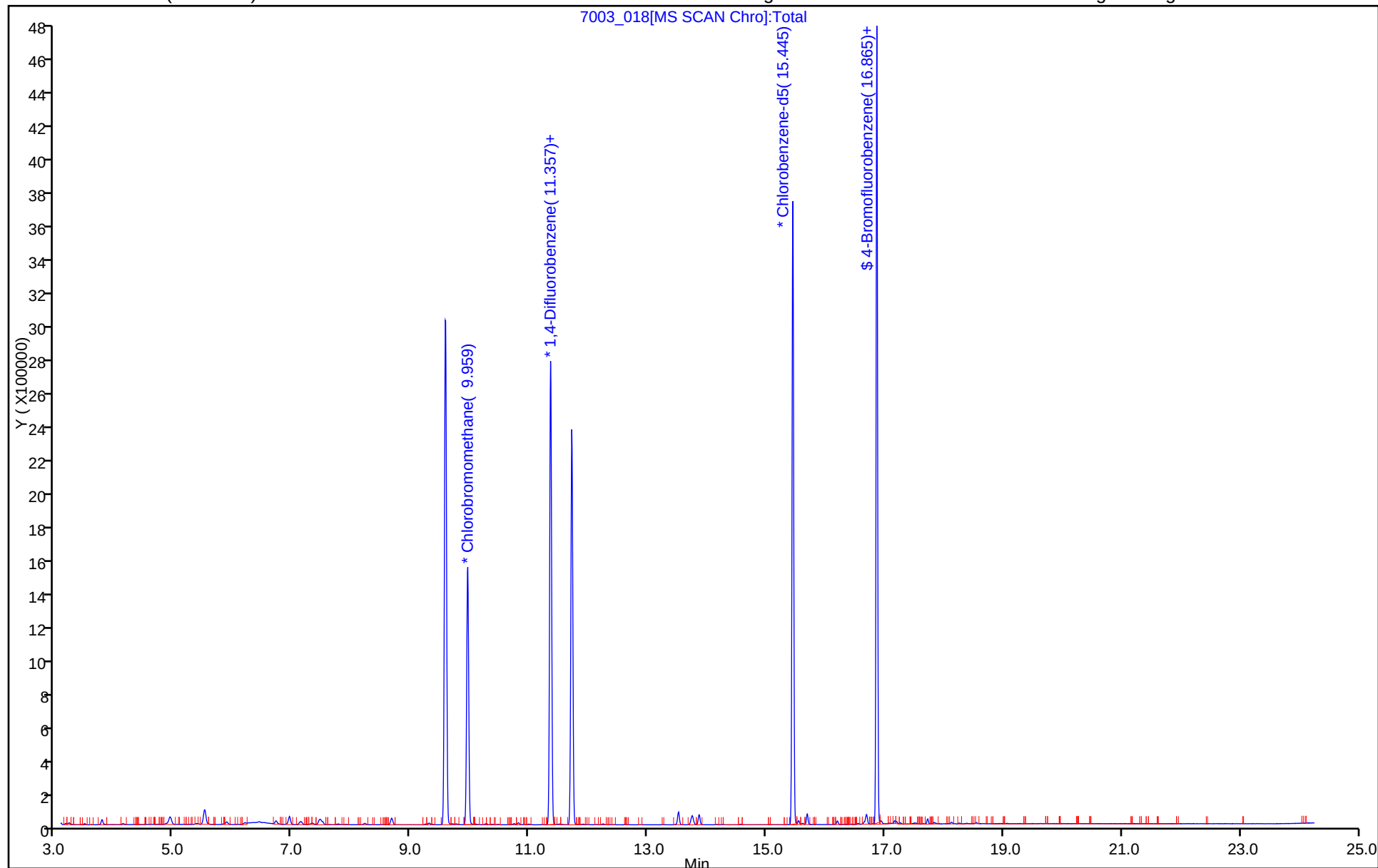
ALS Bottle#: 16

Method: TO15_LLNJ_TO3

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140411-7003.b\7003_018.D

Injection Date: 12-Apr-2014 02:40:30

Instrument ID: CHB.i

Lims ID: 480-57563-A-22

Lab Sample ID: 200-57563-22

Client ID: LRP Effluent 2Q14

Operator ID: pad

ALS Bottle#: 16

Worklist Smp#: 18

Purge Vol: 5.000 mL

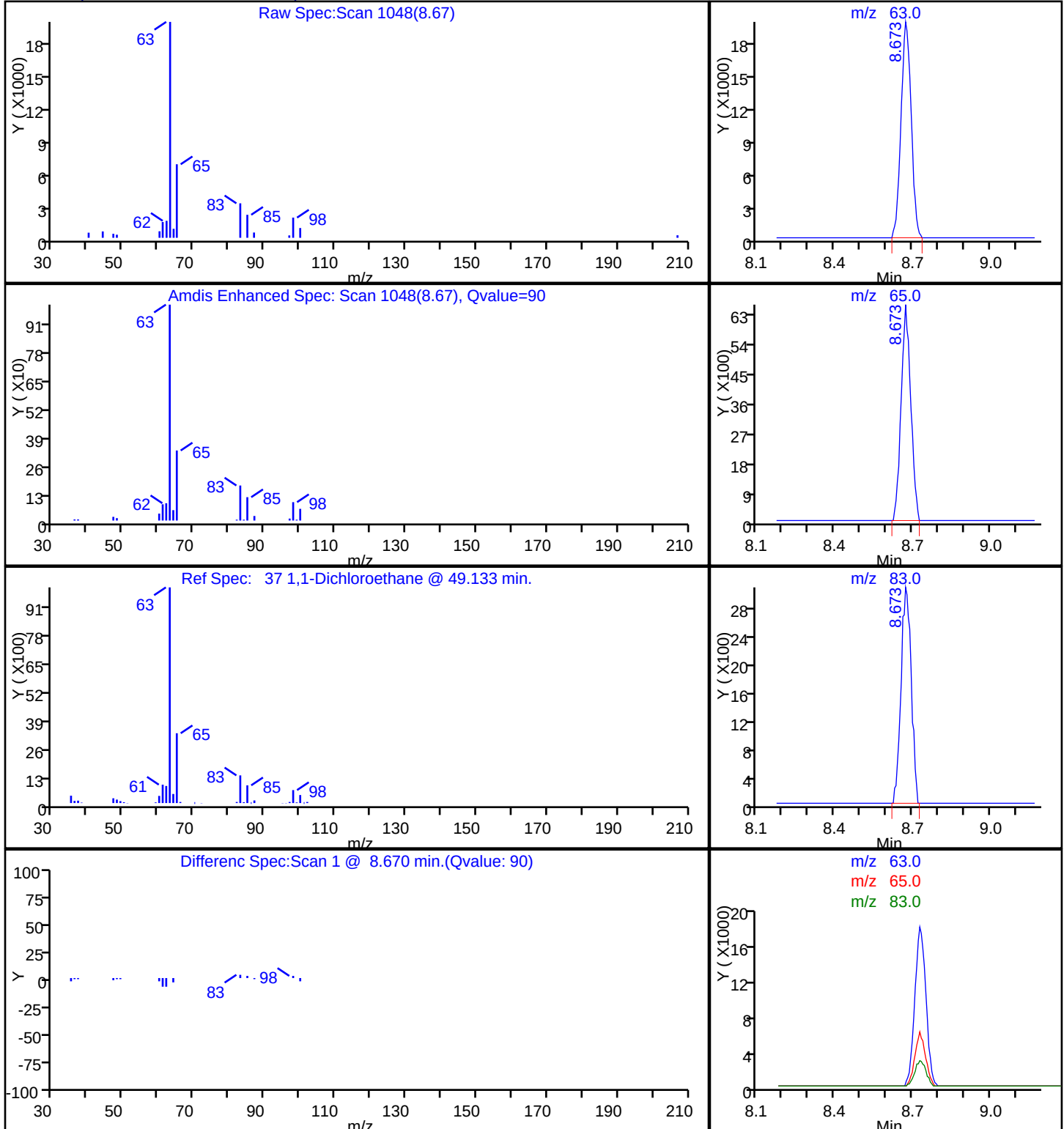
Dil. Factor: 4.5500

Method: TO15_LLNJ_TO3

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

37 1,1-Dichloroethane, CAS: 75-34-3

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140411-7003.b\7003_018.D

Injection Date: 12-Apr-2014 02:40:30

Instrument ID: CHB.i

Lims ID: 480-57563-A-22

Lab Sample ID: 200-57563-22

Client ID: LRP Effluent 2Q14

Operator ID: pad

ALS Bottle#: 16

Worklist Smp#: 18

Purge Vol: 5.000 mL

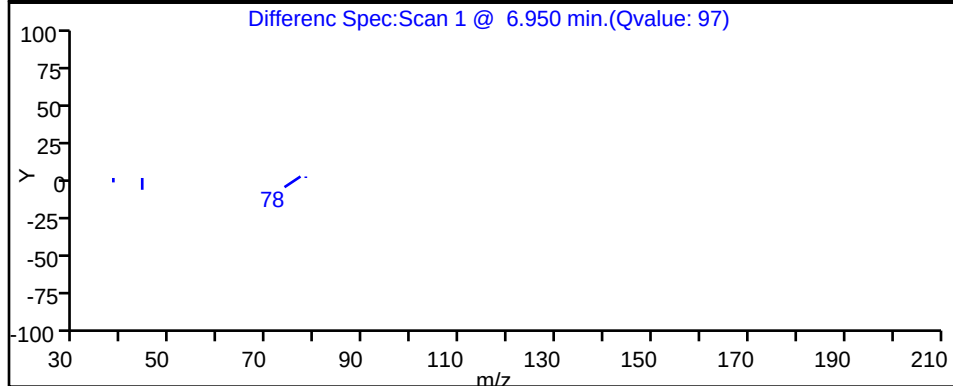
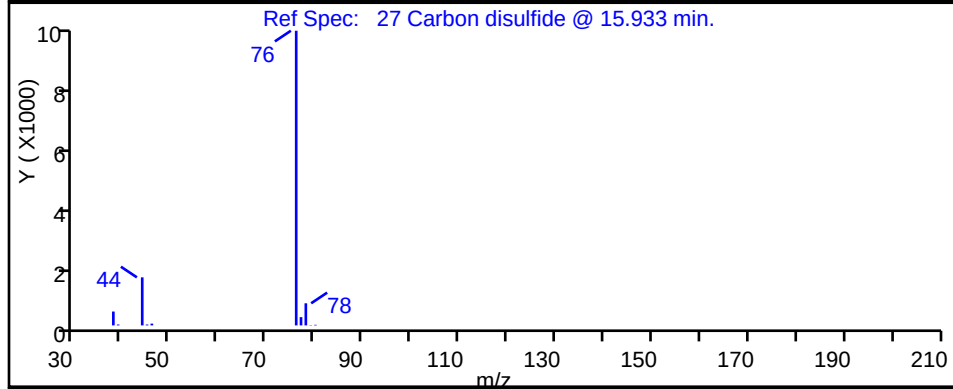
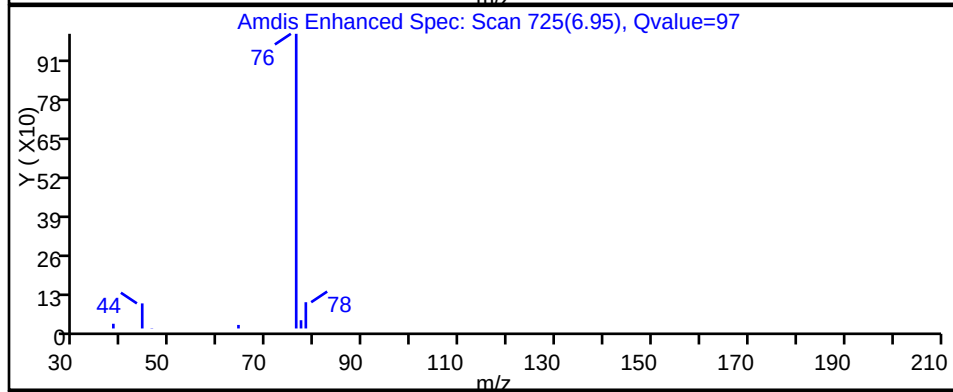
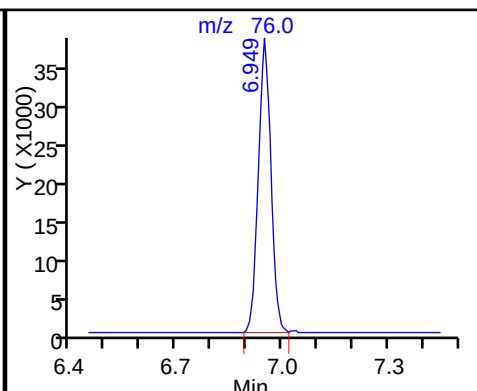
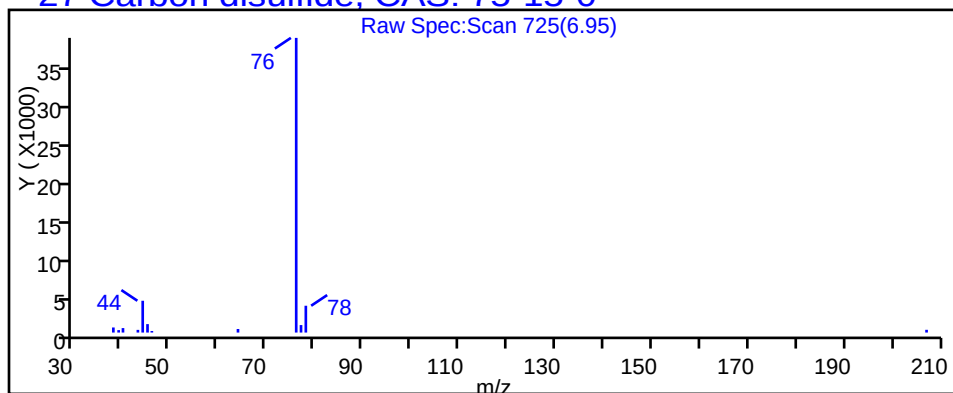
Dil. Factor: 4.5500

Method: TO15_LLNJ_TO3

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

27 Carbon disulfide, CAS: 75-15-0

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140411-7003.b\7003_018.D

Injection Date: 12-Apr-2014 02:40:30

Instrument ID: CHB.i

Lims ID: 480-57563-A-22

Lab Sample ID: 200-57563-22

Client ID: LRP Effluent 2Q14

Operator ID: pad

ALS Bottle#: 16

Worklist Smp#: 18

Purge Vol: 5.000 mL

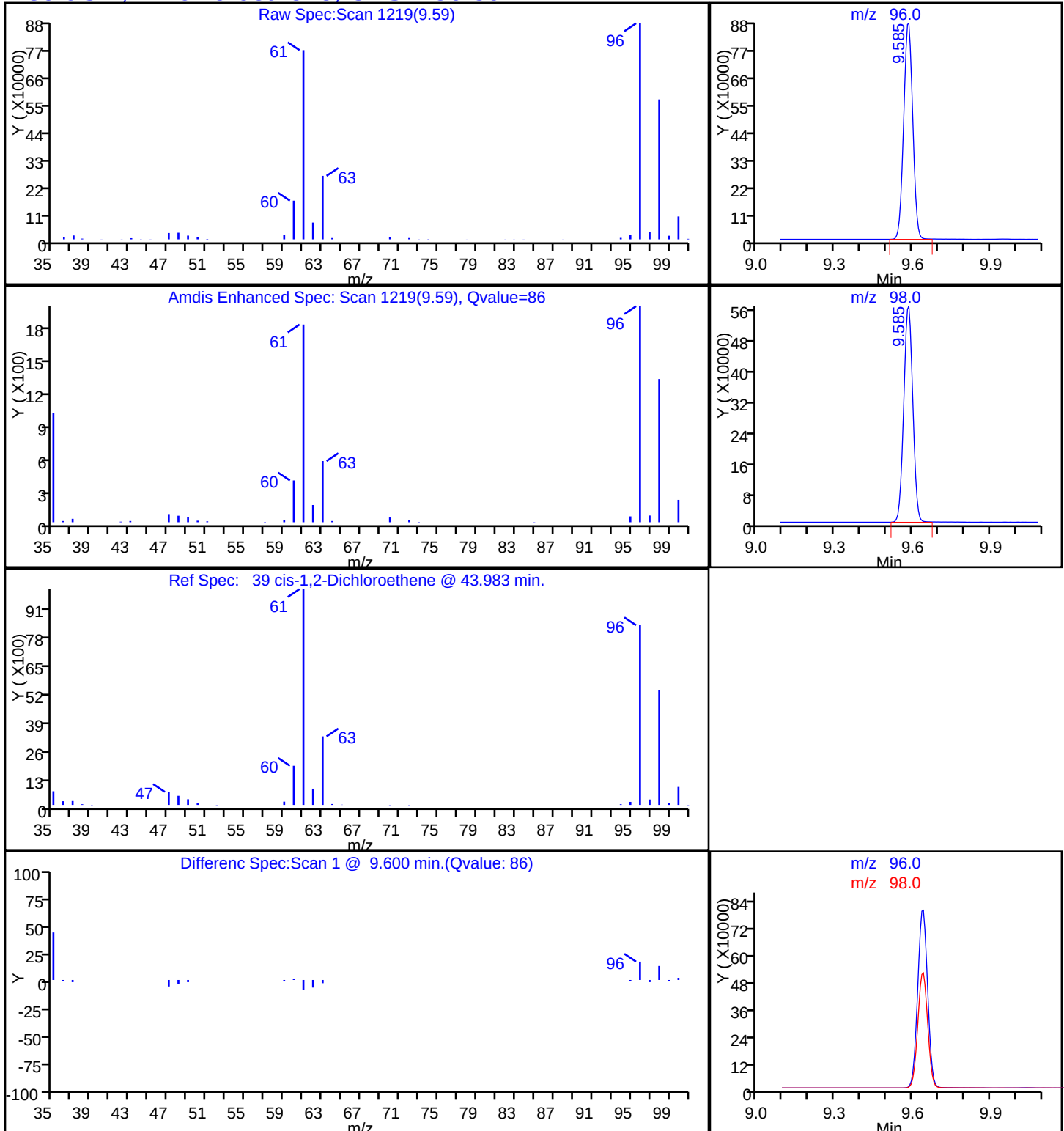
Dil. Factor: 4.5500

Method: TO15_LLNJ_TO3

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

39 cis-1,2-Dichloroethene, CAS: 156-59-2

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140411-7003.b\7003_018.D

Injection Date: 12-Apr-2014 02:40:30

Instrument ID: CHB.i

Lims ID: 480-57563-A-22

Lab Sample ID: 200-57563-22

Client ID: LRP Effluent 2Q14

Operator ID: pad

ALS Bottle#: 16

Worklist Smp#: 18

Purge Vol: 5.000 mL

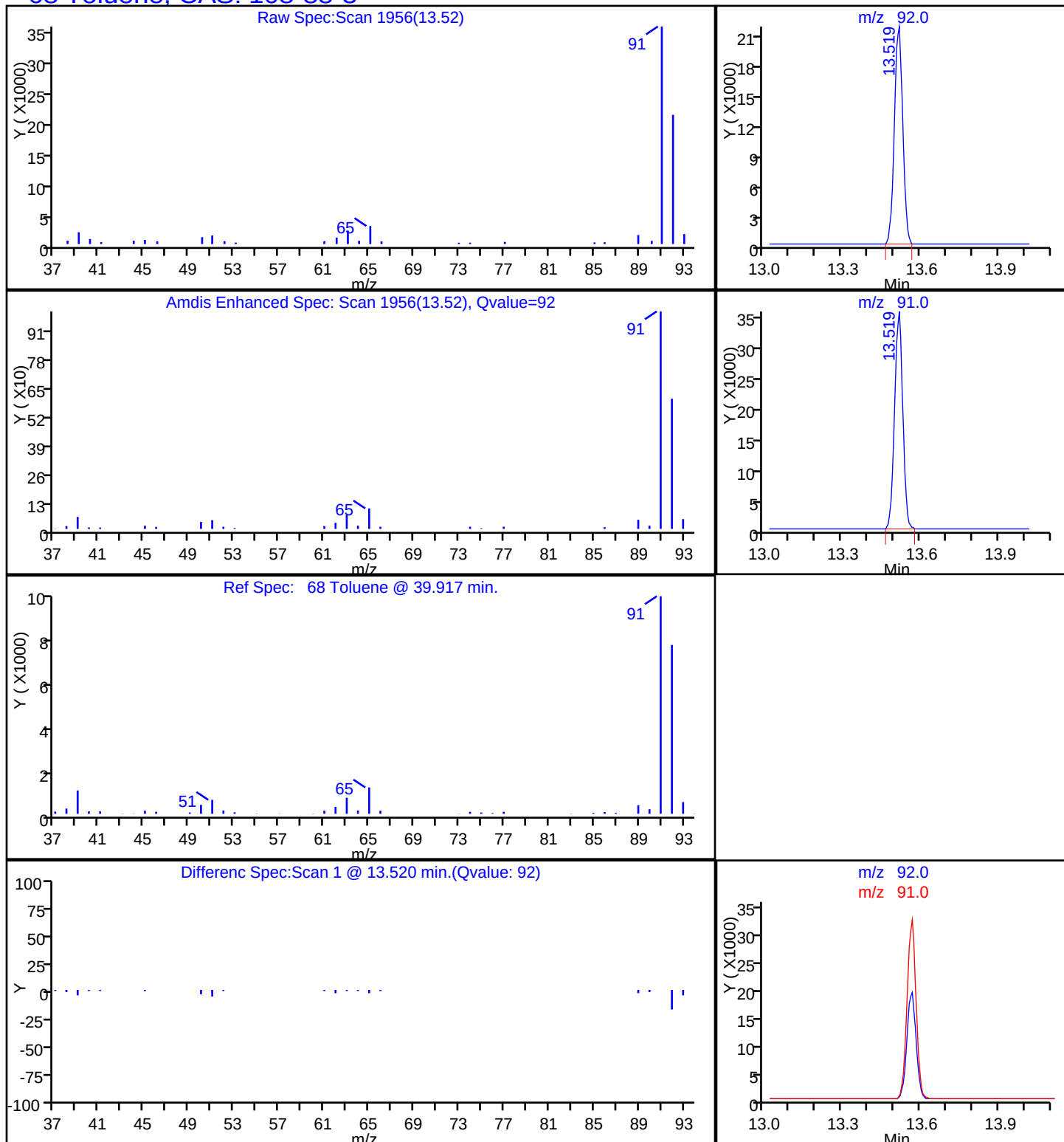
Dil. Factor: 4.5500

Method: TO15_LL NJ_TO3

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

68 Toluene, CAS: 108-88-3

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140411-7003.b\7003_018.D

Injection Date: 12-Apr-2014 02:40:30

Instrument ID: CHB.i

Lims ID: 480-57563-A-22

Lab Sample ID: 200-57563-22

Client ID: LRP Effluent 2Q14

Operator ID: pad

ALS Bottle#: 16

Worklist Smp#: 18

Purge Vol: 5.000 mL

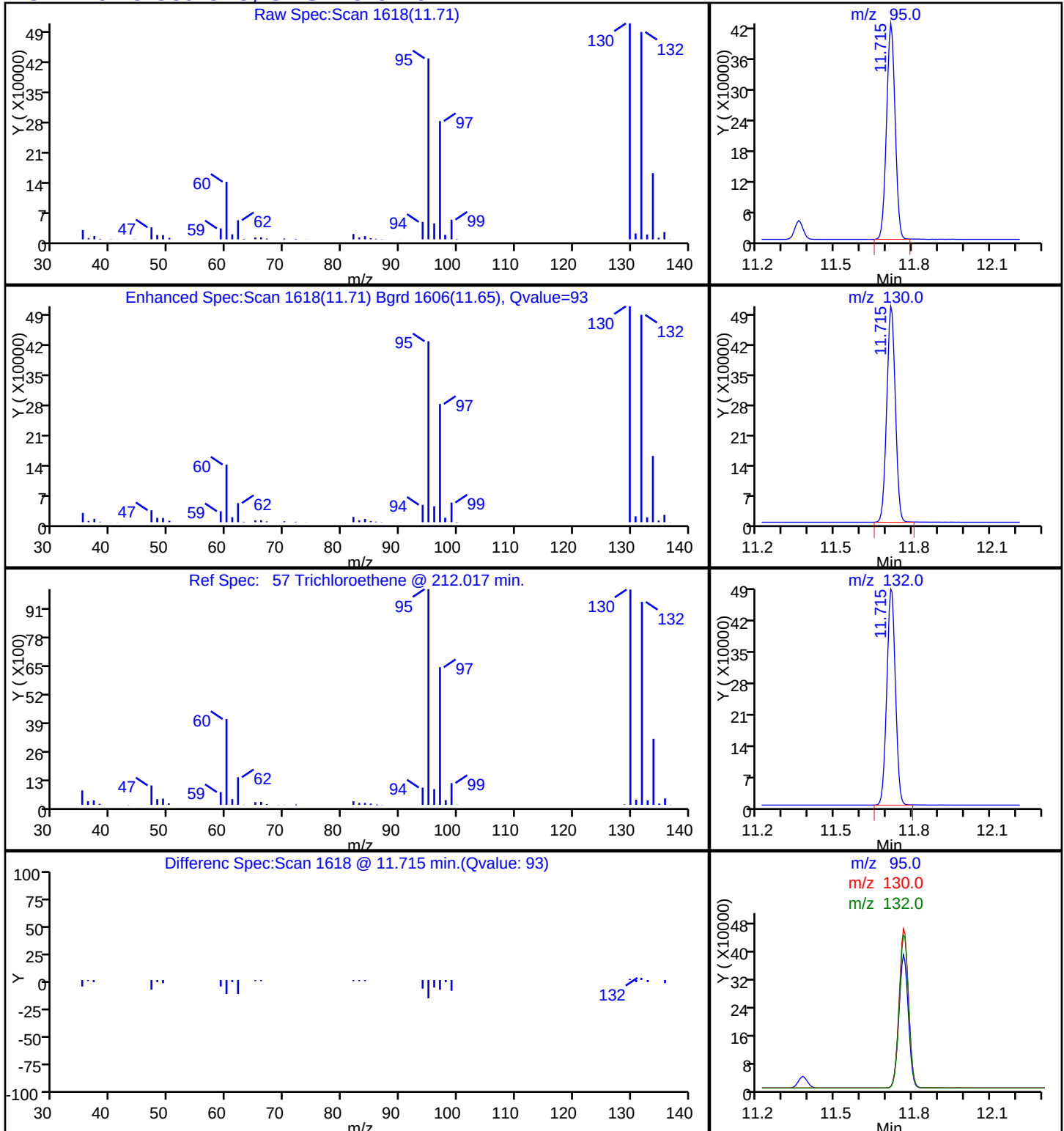
Dil. Factor: 4.5500

Method: TO15_LLNJ_TO3

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

57 Trichloroethene, CAS: 79-01-6

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

Lab Name: TestAmerica Burlington Job No.: 480-57563-1 Analy Batch No.: 69511

SDG No.: _____

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2014 12:11 Calibration End Date: 03/14/2014 18:16 Calibration ID: 25935

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-69511/3	6557_003.D
Level 2	IC 200-69511/4	6557_004.D
Level 3	IC 200-69511/5	6557_005.D
Level 4	IC 200-69511/6	6557_006.D
Level 5	ICIS 200-69511/7	6557_007.D
Level 6	IC 200-69511/8	6557_008.D
Level 7	IC 200-69511/9	6557_009.D
Level 8	IC 200-69511/10	6557_010.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Propylene	++++ 0.0649	++++ 0.1841	0.2747 0.1762	0.1803	0.1655	Ave		0.1743				38.0	*	30.0			
Dichlorodifluoromethane	++++ 1.3843	++++ 1.3872	1.8631 1.2626	1.5008	1.3628	Ave		1.4601				14.0		30.0			
Freon 22	++++ 0.5192	++++ 0.5365	0.6606 0.5110	0.5312	0.4957	Ave		0.5424				11.0		30.0			
1,2-Dichlorotetrafluoroethane	++++ 1.2780	1.8021 1.2832	1.6866 1.1718	1.3580	1.2404	Ave		1.4029				17.0		30.0			
Chloromethane	++++ 0.2557	++++ 0.2673	0.3374 0.2600	0.2602	0.2420	Ave		0.2704				13.0		30.0			
n-Butane	++++ 0.4273	++++ 0.4393	0.5808 0.4225	0.4325	0.4000	Ave		0.4504				14.0		30.0			
Vinyl chloride	0.5225 0.4164	0.5335 0.4378	0.5208 0.4226	0.4337	0.4051	Ave		0.4616				12.0		30.0			
1,3-Butadiene	++++ 0.2876	0.3548 0.3051	0.3419 0.2945	0.2998	0.2829	Ave		0.3095				9.0		30.0			
Bromomethane	++++ 0.7524	1.1260 0.8320	1.0784 0.8050	0.8720	0.8046	Ave		0.8958				16.0		30.0			
Chloroethane	++++ 0.2970	++++ 0.3413	0.4466 0.3316	0.3583	0.3322	Ave		0.3512				14.0		30.0			
Isopentane	++++ 0.3975	0.7623 0.4509	0.6503 0.4306	0.4854	0.4419	Ave		0.5170				26.0		30.0			
Bromoethene (Vinyl Bromide)	++++ 0.8584	1.2481 0.9721	1.2192 0.9407	1.0078	0.9503	Ave		1.0281				14.0		30.0			
Trichlorofluoromethane	++++ 2.1822	3.1363 2.3916	3.0562 2.2829	2.4875	2.3177	Ave		2.5506				15.0		30.0			
n-Pentane	++++ 0.8182	++++ 0.8524	1.2155 0.7879	0.9202	0.8292	Ave		0.9039				18.0		30.0			

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

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

Lab Name: TestAmerica Burlington Job No.: 480-57563-1 Analy Batch No.: 69511

SDG No.: _____

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2014 12:11 Calibration End Date: 03/14/2014 18:16 Calibration ID: 25935

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Ethanol	+++++ 0.2119	+++++ 0.2032	0.2546 0.1803	0.2678	0.2387	Ave		0.2261				15.0		30.0			
Ethyl ether	+++++ 0.5071	0.6258 0.5140	0.6097 0.4844	0.5187	0.4844	Ave		0.5349				11.0		30.0			
Acrolein	+++++ 0.2139	+++++ 0.2216	+++++ 0.1893	0.2500	0.2275	Ave		0.2205				10.0		30.0			
Freon TF	+++++ 2.1092	2.7871 2.1282	2.5294 1.9482	2.0951	1.9898	Ave		2.2267				14.0		30.0			
1,1-Dichloroethene	+++++ 1.0535	1.2832 1.0739	1.2156 1.0189	1.0212	0.9878	Ave		1.0935				10.0		30.0			
Acetone	+++++ 0.8094	+++++ 0.9469	+++++ 0.7397	0.8184	0.7368	Ave		0.8103				11.0		30.0			
Isopropyl alcohol	+++++ 0.7740	+++++ 0.7401	+++++ 0.6297	0.7768	0.6980	Ave		0.7237				8.5		30.0			
Carbon disulfide	+++++ 2.6094	+++++ 2.3649	2.9253 2.1891	2.3918	2.2306	Ave		2.4519				11.0		30.0			
3-Chloropropene	+++++ 0.6495	0.9517 0.6571	0.8494 0.6082	0.7102	0.6364	Ave		0.7232				18.0		30.0			
Acetonitrile	+++++ 0.3643	+++++ 0.3670	+++++ 0.3327	0.3813	0.3412	Ave		0.3573				5.6		30.0			
Methylene Chloride	+++++ 0.6091	+++++ 0.6107	0.9661 0.5657	0.6695	0.5945	Ave		0.6693				22.0		30.0			
tert-Butyl alcohol	+++++ 1.4216	+++++ 1.4670	+++++ 1.2786	1.3753	1.2864	Ave		1.3658				6.1		30.0			
Methyl tert-butyl ether	+++++ 2.5967	3.0850 2.6664	2.9368 2.5416	2.5317	2.4407	Ave		2.6856				8.8		30.0			
trans-1,2-Dichloroethene	+++++ 1.0190	1.3452 1.0305	1.2687 0.9642	1.0569	0.9749	Ave		1.0942				14.0		30.0			
Acrylonitrile	+++++ 0.4677	+++++ 0.4811	0.5705 0.4538	0.4844	0.4427	Ave		0.4834				9.4		30.0			
n-Hexane	+++++ 1.0545	1.4421 1.0531	1.3195 0.9671	1.0960	1.0084	Ave		1.1344				16.0		30.0			
1,1-Dichloroethane	1.9343 1.3399	1.8300 1.3466	1.7175 1.2355	1.4109	1.2937	Ave		1.5135				18.0		30.0			
Vinyl acetate	+++++ 1.3834	+++++ 1.3742	+++++ 1.2295	1.4803	1.3402	Ave		1.3615				6.6		30.0			
cis-1,2-Dichloroethene	+++++ 1.1542	1.5159 1.1410	1.3928 0.9995	1.1741	1.1102	Ave		1.2125				15.0		30.0			
Ethyl acetate	+++++ 0.0916	+++++ 0.0920	+++++ 0.0807	0.0909	0.0869	Ave		0.0884				5.4		30.0			

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

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

Lab Name: TestAmerica Burlington Job No.: 480-57563-1 Analy Batch No.: 69511

SDG No.: _____

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2014 12:11 Calibration End Date: 03/14/2014 18:16 Calibration ID: 25935

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Methyl Ethyl Ketone	++++ 0.4418	++++ 0.4450	0.8399 0.3800	0.4577	0.4251	Ave		0.4983				34.0	*	30.0			
Tetrahydrofuran	++++ 0.1117	++++ 0.1099	0.1178 0.0985	0.1178	0.1074	Ave		0.1091				6.4		30.0			
Chloroform	++++ 1.9716	2.5748 2.0083	2.3925 1.8935	1.9886	1.8740	Ave		2.1005				13.0		30.0			
Cyclohexane	++++ 0.2828	0.3575 0.2783	0.3407 0.2402	0.2887	0.2710	Ave		0.2942				14.0		30.0			
1,1,1-Trichloroethane	++++ 0.4425	0.5572 0.4388	0.5158 0.3914	0.4421	0.4164	Ave		0.4577				13.0		30.0			
Carbon tetrachloride	0.6115 0.4897	0.5836 0.4916	0.5501 0.4547	0.4723	0.4552	Ave		0.5136				12.0		30.0			
2,2,4-Trimethylpentane	++++ 0.7071	0.9184 0.6918	0.8763 0.6075	0.7453	0.6773	Ave		0.7462				15.0		30.0			
Benzene	++++ 0.6129	0.8222 0.6130	0.7646 0.5549	0.6220	0.5801	Ave		0.6528				15.0		30.0			
1,2-Dichloroethane	++++ 0.2090	0.2697 0.2119	0.2546 0.1999	0.2114	0.1969	Ave		0.2219				13.0		30.0			
n-Heptane	++++ 0.1925	0.2935 0.1873	0.2683 0.1621	0.2119	0.1869	Ave		0.2147				22.0		30.0			
n-Butanol	++++ 0.0900	++++ 0.0818	++++ 0.0739	0.0788	0.0745	Ave		0.0798				8.2		30.0			
Trichloroethene	0.4028 0.3019	0.3870 0.3006	0.3557 0.2688	0.3022	0.2852	Ave		0.3255				15.0		30.0			
1,2-Dichloropropane	++++ 0.1758	0.2441 0.1728	0.2297 0.1506	0.1858	0.1701	Ave		0.1898				18.0		30.0			
Methyl methacrylate	++++ 0.1989	++++ 0.1964	0.2206 0.1742	0.2006	0.1891	Ave		0.1966				7.7		30.0			
1,4-Dioxane	++++ 0.1171	++++ 0.1126	++++ 0.0963	0.1078	0.1028	Ave		0.1073				7.6		30.0			
Dibromomethane	++++ 0.3359	0.4116 0.3256	0.3834 0.2694	0.3341	0.3200	Ave		0.3400				14.0		30.0			
Bromodichloromethane	++++ 0.4522	0.5578 0.4529	0.5174 0.4105	0.4540	0.4263	Ave		0.4673				11.0		30.0			
cis-1,3-Dichloropropene	++++ 0.3350	0.3894 0.3372	0.3708 0.3102	0.3287	0.3124	Ave		0.3405				8.6		30.0			
methyl isobutyl ketone	++++ 0.2607	++++ 0.2567	0.3111 0.2275	0.2738	0.2506	Ave		0.2634				11.0		30.0			
n-Octane	++++ 0.2612	0.3942 0.2518	0.3649 0.2117	0.2958	0.2582	Ave		0.2911				23.0		30.0			

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

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

Lab Name: TestAmerica Burlington Job No.: 480-57563-1 Analy Batch No.: 69511

SDG No.: _____

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2014 12:11 Calibration End Date: 03/14/2014 18:16 Calibration ID: 25935

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Toluene	+++++ 0.5970	0.7615 0.5874	0.7191 0.5196	0.5897	0.5594	Ave		0.6191				14.0		30.0			
trans-1,3-Dichloropropene	+++++ 0.3462	0.3935 0.3526	0.3730 0.3248	0.3402	0.3244	Ave		0.3507				7.2		30.0			
1,1,2-Trichloroethane	+++++ 0.2627	0.3410 0.2609	0.3149 0.2324	0.2612	0.2455	Ave		0.2741				14.0		30.0			
Tetrachloroethene	0.7247 0.5842	0.7375 0.5564	0.6887 0.4519	0.5833	0.5594	Ave		0.6108				16.0		30.0			
Methyl Butyl Ketone (2-Hexanone)	+++++ 0.2938	+++++ 0.2917	0.3696 0.2590	0.3014	0.2767	Ave		0.2987				13.0		30.0			
Dibromochloromethane	+++++ 0.6735	0.7625 0.6601	0.7350 0.5663	0.6524	0.6277	Ave		0.6682				9.8		30.0			
1,2-Dibromoethane	+++++ 0.5787	0.6818 0.5704	0.6501 0.4959	0.5602	0.5401	Ave		0.5825				11.0		30.0			
Chlorobenzene	+++++ 0.8982	1.1090 0.8842	1.0589 0.7705	0.8777	0.8385	Ave		0.9196				13.0		30.0			
n-Nonane	+++++ 0.3486	0.5649 0.3289	0.5273 0.2622	0.4026	0.3510	Ave		0.3979				28.0		30.0			
Ethylbenzene	+++++ 1.1589	1.6628 1.0903	1.5460 0.8425	1.2646	1.1447	Ave		1.2443				22.0		30.0			
m,p-Xylene	+++++ 0.5184	0.7038 0.4856	0.6724 0.3785	0.5592	0.5136	Ave		0.5474				20.0		30.0			
Xylene, o-	+++++ 0.5564	0.6892 0.5317	0.6641 0.4362	0.5615	0.5306	Ave		0.5671				15.0		30.0			
Styrene	+++++ 0.8692	0.9959 0.8315	0.9712 0.6853	0.8775	0.8314	Ave		0.8660				12.0		30.0			
Bromoform	+++++ 0.6692	0.7623 0.6207	0.7321 0.4621	0.6894	0.6561	Ave		0.6560				15.0		30.0			
Cumene	+++++ 1.5777	1.9416 1.5216	1.8811 1.2487	1.5915	1.5051	Ave		1.6096				15.0		30.0			
1,1,2,2-Tetrachloroethane	+++++ 0.6810	0.9050 0.6626	0.8540 0.5389	0.7067	0.6560	Ave		0.7149				17.0		30.0			
n-Propylbenzene	+++++ 1.7154	2.2503 1.6359	2.1406 1.2486	1.7994	1.6710	Ave		1.7802				19.0		30.0			
1,2,3-Trichloropropane	+++++ 0.4550	+++++ 0.4346	0.6354 0.3300	0.5042	0.4511	Ave		0.4684				21.0		30.0			
n-Decane	+++++ 0.4603	+++++ 0.4181	0.6818 0.3259	0.5380	0.4668	Ave		0.4818				25.0		30.0			
4-Ethyltoluene	+++++ 1.5866	2.0056 1.5185	1.8864 1.1917	1.6161	1.5173	Ave		1.6175				16.0		30.0			

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

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

Lab Name: TestAmerica Burlington Job No.: 480-57563-1 Analy Batch No.: 69511

SDG No.: _____

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2014 12:11 Calibration End Date: 03/14/2014 18:16 Calibration ID: 25935

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Chlorotoluene	+++++ 1.1711	1.5843 1.1243	1.4684 0.8735	1.2239	1.1356	Ave		1.2259				19.0		30.0			
1,3,5-Trimethylbenzene	+++++ 1.2780	1.8405 1.2058	1.5800 0.9213	1.3418	1.2470	Ave		1.3449				22.0		30.0			
Alpha Methyl Styrene	+++++ 0.7427	0.7643 0.6795	0.7608 0.5905	0.7410	0.7166	Ave		0.7136				8.6		30.0			
tert-Butylbenzene	+++++ 1.3383	1.6500 1.2797	1.6121 1.0206	1.3623	1.2752	Ave		1.3626				16.0		30.0			
1,2,4-Trimethylbenzene	+++++ 1.3474	1.8414 1.2725	1.5907 1.0374	1.3632	1.2794	Ave		1.3903				18.0		30.0			
sec-Butylbenzene	+++++ 1.9256	2.4847 1.7896	2.4436 1.4307	1.9983	1.8528	Ave		1.9893				19.0		30.0			
4-Isopropyltoluene	+++++ 1.7011	2.1051 1.5215	2.0199 1.2747	1.7276	1.6212	Ave		1.7102				17.0		30.0			
1,3-Dichlorobenzene	+++++ 1.0335	1.2027 0.9692	1.2192 0.7673	1.0283	0.9819	Ave		1.0289				15.0		30.0			
1,4-Dichlorobenzene	+++++ 1.0392	1.2010 0.9620	1.1836 0.7732	1.0284	0.9835	Ave		1.0244				14.0		30.0			
Benzyl chloride	+++++ 1.1308	1.1119 1.1332	1.1776 1.0055	1.1545	1.1243	Ave		1.1197				4.9		30.0			
n-Undecane	+++++ 0.5446	+++++ 0.5062	+++++ 0.4288	0.6090	0.5128	Ave		0.5203				13.0		30.0			
n-Butylbenzene	+++++ 1.3839	1.6578 1.2166	1.6667 1.0709	1.4202	1.3172	Ave		1.3905				16.0		30.0			
1,2-Dichlorobenzene	+++++ 0.9948	1.1501 0.9058	1.1433 0.7600	0.9847	0.9365	Ave		0.9822				14.0		30.0			
n-Dodecane	+++++ 0.5175	+++++ 0.4807	+++++ 0.3797	0.4243	0.4502	Ave		0.4505				12.0		30.0			
1,2,4-Trichlorobenzene	+++++ 0.7506	+++++ 0.7623	0.6249 0.6384	0.6713	0.6625	Ave		0.6850				8.5		30.0			
Hexachlorobutadiene	+++++ 0.5154	0.7227 0.4881	0.7125 0.3436	0.5561	0.5114	Ave		0.5499				24.0		30.0			
Naphthalene	+++++ 1.8127	+++++ 1.7883	1.3094 1.6270	1.6060	1.5881	Ave		1.6219				11.0		30.0			
1,2,3-Trichlorobenzene	+++++ 0.7150	0.3477 0.7206	0.5376 0.6158	0.5638	0.6165	Ave		0.5882				22.0		30.0			

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

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

Lab Name: TestAmerica Burlington Job No.: 480-57563-1 Analy Batch No.: 69511

SDG No.: _____

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2014 12:11 Calibration End Date: 03/14/2014 18:16 Calibration ID: 25935

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-69511/3	6557_003.D
Level 2	IC 200-69511/4	6557_004.D
Level 3	IC 200-69511/5	6557_005.D
Level 4	IC 200-69511/6	6557_006.D
Level 5	ICIS 200-69511/7	6557_007.D
Level 6	IC 200-69511/8	6557_008.D
Level 7	IC 200-69511/9	6557_009.D
Level 8	IC 200-69511/10	6557_010.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Propylene	BCM	Ave	++++ 68669	++++ 255405	8571 494024	57846	111743	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.00
Dichlorodifluoromethane	BCM	Ave	++++ 1465088	++++ 1924684	58127 3540616	481596	920185	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.00
Freon 22	BCM	Ave	++++ 549505	++++ 744372	20609 1432858	170467	334727	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.00
1,2-Dichlorotetrafluoroethane	BCM	Ave	++++ 1352587	++++ 1780420	52621 3286009	435762	837587	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Chloromethane	BCM	Ave	++++ 270601	++++ 370938	10528 728978	83492	163438	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.00
n-Butane	BCM	Ave	++++ 452265	++++ 609510	18121 1184752	138783	270060	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.00
Vinyl chloride	BCM	Ave	1331 440686	6759 607381	16249 1184971	139181	273563	0.0401 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,3-Butadiene	BCM	Ave	++++ 304353	4495 423287	10668 825788	96202	191019	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Bromomethane	BCM	Ave	++++ 796315	14266 1154441	33647 2257298	279835	543316	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Chloroethane	BCM	Ave	++++ 314310	++++ 473613	13933 929992	114968	224337	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.00
Isopentane	BCM	Ave	++++ 420737	9658 625662	20288 1207411	155767	298374	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Bromoethene (Vinyl Bromide)	BCM	Ave	++++ 908458	15813 1348796	38039 2637985	323401	641650	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Trichlorofluoromethane	BCM	Ave	++++ 2309499	39736 3318292	95353 6401573	798212	1564955	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
n-Pentane	BCM	Ave	++++ 865938	++++ 1182737	37924 2209554	295295	559900	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.00
Ethanol	BCM	Ave	++++ 299678	++++ 563864	79522 1263924	128955	241834	++++ 20.0	++++ 40.0	5.01 100.0	7.50	15.0

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

Lab Name: TestAmerica Burlington Job No.: 480-57563-1 Analy Batch No.: 69511

SDG No.: _____

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2014 12:11 Calibration End Date: 03/14/2014 18:16 Calibration ID: 25935

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Ethyl ether	BCM	Ave	++++ 536655	7929 713148	19022 1358409	166445	327105	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Acrolein	BCM	Ave	++++ 226399	++++ 307411	++++ 530924	80218	153606	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.00
Freon TF	BCM	Ave	++++ 2232253	35311 2952854	78917 5463001	672307	1343543	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,1-Dichloroethene	BCM	Ave	++++ 1115004	16258 1490003	37925 2857246	327709	667016	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Acetone	BCM	Ave	++++ 856670	++++ 1313841	++++ 2074276	262630	497524	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.00
Isopropyl alcohol	BCM	Ave	++++ 819186	++++ 1026923	++++ 1765711	249273	471335	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.00
Carbon disulfide	BCM	Ave	++++ 2761642	++++ 3281323	91269 6138624	767517	1506201	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.00
3-Chloropropene	BCM	Ave	++++ 687372	12058 911683	26500 1705527	227884	429698	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Acetonitrile	BCM	Ave	++++ 385574	++++ 509211	++++ 933071	122363	230402	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.00
Methylene Chloride	BCM	Ave	++++ 644656	++++ 847304	30143 1586209	214839	401417	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.00
tert-Butyl alcohol	BCM	Ave	++++ 1504559	++++ 2035444	++++ 3585393	441312	868611	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.00
Methyl tert-butyl ether	BCM	Ave	++++ 2748228	39086 3699655	91627 7127075	812400	1648054	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
trans-1,2-Dichloroethene	BCM	Ave	++++ 1078469	17043 1429875	39584 2703787	339144	658313	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Acrylonitrile	BCM	Ave	++++ 495022	++++ 667510	17800 1272502	155452	298927	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.00
n-Hexane	BCM	Ave	++++ 1115992	18271 1461195	41169 2711842	351686	680918	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,1-Dichloroethane	BCM	Ave	4927 1418035	23185 1868454	53584 3464607	452748	873545	0.0401 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Vinyl acetate	BCM	Ave	++++ 1464152	++++ 1906704	++++ 3447819	475027	904975	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.00
cis-1,2-Dichloroethene	BCM	Ave	++++ 1221577	19206 1583080	43454 2802676	376774	749642	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Ethyl acetate	BCM	Ave	++++ 96943	++++ 127711	++++ 226393	29154	58667	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.00
Methyl Ethyl Ketone	BCM	Ave	++++ 467560	++++ 617414	26204 1065698	146884	287042	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.00
Tetrahydrofuran	DFB	Ave	++++ 580459	++++ 759097	++++ 1410138	184951	357806	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.00

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

Lab Name: TestAmerica Burlington Job No.: 480-57563-1 Analy Batch No.: 69511

SDG No.: _____

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2014 12:11 Calibration End Date: 03/14/2014 18:16 Calibration ID: 25935

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chloroform	BCM	Ave	++++ 2086637	32622 2786507	74646 5309881	638145	1265393	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Cyclohexane	DFB	Ave	++++ 1469351	22263 1923315	52451 3438058	453345	902914	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,1,1-Trichloroethane	DFB	Ave	++++ 2299185	34702 3032003	79404 5601171	694187	1387581	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Carbon tetrachloride	DFB	Ave	7688 2544730	36346 3397109	84690 6507101	741752	1516732	0.0401 15.0	0.200 20.0	0.500 40.0	5.00	10.00
2,2,4-Trimethylpentane	DFB	Ave	++++ 3674073	57197 4780267	134899 8692904	1170360	2256830	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Benzene	DFB	Ave	++++ 3184914	51207 4236294	117698 7941325	976766	1932969	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,2-Dichloroethane	DFB	Ave	++++ 1086275	16799 1464050	39188 2860834	332018	656142	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
n-Heptane	DFB	Ave	++++ 1000301	18279 1294563	41308 2319165	332828	622895	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
n-Butanol	DFB	Ave	++++ 467587	++++ 565060	++++ 1057428	123822	248283	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.00
Trichloroethene	DFB	Ave	5064 1568848	24102 2077327	54752 3845972	474548	950435	0.0401 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,2-Dichloropropane	DFB	Ave	++++ 913733	15200 1194267	35366 2154445	291733	566681	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Methyl methacrylate	DFB	Ave	++++ 1033432	++++ 1357006	33960 2492241	315002	630238	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.00
1,4-Dioxane	DFB	Ave	++++ 608623	++++ 777877	++++ 1377573	169229	342447	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.00
Dibromomethane	DFB	Ave	++++ 1745664	25631 2250293	59019 3855401	524669	1066343	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Bromodichloromethane	DFB	Ave	++++ 2349823	34739 3129985	79649 5874293	712958	1420398	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
cis-1,3-Dichloropropene	DFB	Ave	++++ 1740534	24251 2329911	57084 4438475	516162	1040993	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
methyl isobutyl ketone	DFB	Ave	++++ 1354524	++++ 1773942	47898 3256051	429924	834973	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.00
n-Octane	DFB	Ave	++++ 1357409	24552 1740122	56176 3029042	464584	860496	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Toluene	CBZ	Ave	++++ 2674219	40930 3499416	95787 6361095	816354	1633881	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
trans-1,3-Dichloropropene	DFB	Ave	++++ 1798875	24509 2436771	57421 4648506	534250	1080930	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,1,2-Trichloroethane	CBZ	Ave	++++ 1176628	18328 1554181	41944 2845144	361660	717177	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00

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

Lab Name: TestAmerica Burlington Job No.: 480-57563-1 Analy Batch No.: 69511

SDG No.: _____

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2014 12:11 Calibration End Date: 03/14/2014 18:16 Calibration ID: 25935

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Tetrachloroethene	CBZ	Ave	7833 2616855	39642 3314444	91737 5532199	807492	1633959	0.0401 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Methyl Butyl Ketone (2-Hexanone)	CBZ	Ave	++++ 1316006	++++ 1737767	49225 3170989	417306	808379	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.00
Dibromochloromethane	CBZ	Ave	++++ 3017034	40982 3932354	97899 6932737	903205	1833432	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,2-Dibromoethane	CBZ	Ave	++++ 2592310	36645 3398396	86600 6070004	775530	1577770	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Chlorobenzene	CBZ	Ave	++++ 4023470	59607 5267778	141044 9431276	1215122	2449145	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
n-Nonane	CBZ	Ave	++++ 1561478	30365 1959601	70239 3209594	557391	1025407	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Ethylbenzene	CBZ	Ave	++++ 5191461	89374 6495489	205924 10312987	1750749	3343755	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
m,p-Xylene	CBZ	Ave	++++ 4644341	75656 5786128	179129 9266378	1548469	3000428	++++ 30.0	0.401 40.0	1.00 80.0	10.00	20.0
Xylene, o-	CBZ	Ave	++++ 2492466	37045 3167400	88465 5339938	777411	1549988	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Styrene	CBZ	Ave	++++ 3893795	53527 4953505	129371 8389157	1214818	2428442	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Bromoform	CBZ	Ave	++++ 2997727	40971 3697642	97515 5656651	954393	1916394	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Cumene	CBZ	Ave	++++ 7067549	104358 9064997	250560 15285968	2203399	4396476	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,1,2,2-Tetrachloroethane	CBZ	Ave	++++ 3050605	48641 3947404	113755 6596922	978332	1916061	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
n-Propylbenzene	CBZ	Ave	++++ 7684271	120949 9745592	285137 15283787	2491172	4881105	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,2,3-Trichloropropane	CBZ	Ave	++++ 2038241	++++ 2588942	84639 4039768	698070	1317531	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.00
n-Decane	CBZ	Ave	++++ 2062173	++++ 2490757	90811 3988912	744811	1363532	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.00
4-Ethyltoluene	CBZ	Ave	++++ 7107273	107800 9046481	251275 14587801	2237468	4432110	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
2-Chlorotoluene	CBZ	Ave	++++ 5246023	85154 6698226	195591 10693128	1694435	3317018	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,3,5-Trimethylbenzene	CBZ	Ave	++++ 5725056	98925 7183369	210455 11277858	1857598	3642511	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Alpha Methyl Styrene	CBZ	Ave	++++ 3326924	41079 4047851	101344 7228062	1025925	2093076	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
tert-Butylbenzene	CBZ	Ave	++++ 5995016	88687 7624038	214734 12493741	1886002	3724879	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00

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

Lab Name: TestAmerica Burlington Job No.: 480-57563-1 Analy Batch No.: 69511

SDG No.: _____

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/14/2014 12:11 Calibration End Date: 03/14/2014 18:16 Calibration ID: 25935

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2,4-Trimethylbenzene	CBZ	Ave	++++ 6036071	98972 7580704	211879 12699315	1887274	3737027	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
sec-Butylbenzene	CBZ	Ave	++++ 8626253	133548 10661494	325491 17513133	2766537	5412056	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
4-Isopropyltoluene	CBZ	Ave	++++ 7620158	113149 9064508	269051 15603740	2391787	4735407	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,3-Dichlorobenzene	CBZ	Ave	++++ 4629709	64644 5773886	162406 9392266	1423576	2868077	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,4-Dichlorobenzene	CBZ	Ave	++++ 4655273	64551 5731284	157663 9464364	1423820	2872688	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Benzyl chloride	CBZ	Ave	++++ 5065652	59765 6751126	156864 12308288	1598301	3284040	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
n-Undecane	CBZ	Ave	++++ 2439571	++++ 3015477	++++ 5248772	843164	1497753	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.00
n-Butylbenzene	CBZ	Ave	++++ 6199465	89107 7247969	222001 13108720	1966195	3847571	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,2-Dichlorobenzene	CBZ	Ave	++++ 4456201	61816 5396501	152286 9303927	1363193	2735633	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
n-Dodecane	CBZ	Ave	++++ 2318147	++++ 2863895	++++ 4647868	587452	1315124	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.00
1,2,4-Trichlorobenzene	CBZ	Ave	++++ 3362637	++++ 4541232	83237 7814515	929365	1935193	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.00
Hexachlorobutadiene	CBZ	Ave	++++ 2308722	38842 2907662	94901 4206355	769824	1493683	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Naphthalene	CBZ	Ave	++++ 8120457	++++ 10653795	174415 19916995	2223399	4638967	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.00
1,2,3-Trichlorobenzene	CBZ	Ave	++++ 3203028	18691 4293018	71612 7538008	780543	1800836	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00

Curve Type Legend:

Ave = Average ISTD

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_003.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 14-Mar-2014 12:11:30 ALS Bottle#: 1 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 200-0006557-003
 Misc. Info.: level 1
 Operator ID: pad Instrument ID: CHB.i
 Sublist: chrom-TO15_LLNJ_TO3*sub5
 Method: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\TO15_LLNJ_TO3.m
 Limit Group: AI_TO15_ICAL
 Last Update: 17-Mar-2014 10:55:04 Calib Date: 14-Mar-2014 18:16:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal/External Standard Quant By: Initial Calibration
 Last ICal File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: daiglep

Date: 17-Mar-2014 10:07:25

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
4 Propene	41	3.170	3.170	0.0	77	1861	0.1681	
5 Dichlorodifluoromethane	85	3.234	3.235	-0.001	69	4961	0.0535	
6 Chlorodifluoromethane	51	3.272	3.272	0.0	29	2025	0.0588	
7 1,2-Dichloro-1,1,2,2-tetrafluoro	85	3.464	3.464	0.0	69	4797	0.0538	
8 Chloromethane	50	3.608	3.603	0.005	37	952	0.0554	
9 Butane	43	3.779	3.784	-0.005	74	2071	0.0724	
10 Vinyl chloride	62	3.843	3.832	0.011	22	1331	0.0454	
11 Butadiene	54	3.907	3.902	0.005	58	923	0.0469	
12 Bromomethane	94	4.633	4.627	0.006	80	3197	0.0562	
13 BFB								
14 Chloroethane	64	4.868	4.873	-0.005	16	1061	0.0476	
15 2-Methylbutane	43	4.942	4.937	0.005	74	3019	0.0919	
16 Vinyl bromide	106	5.294	5.295	-0.001	69	3648	0.0558	
17 Trichlorofluoromethane	101	5.380	5.385	-0.005	54	8804	0.0543	
18 Pentane	43	5.519	5.524	-0.005	84	5022	0.0874	
19 Ethanol	45	5.898	5.887	0.011	73	1124	0.0783	
21 Ethyl ether	59	6.026	6.020	0.006	55	1631	0.0480	
22 Acrolein	56	6.447	6.437	0.010	1	1384	0.0988	
23 1,1,2-Trichloro-1,2,2-trifluoro	101	6.442	6.442	0.0	68	7292	0.0515	
24 1,1-Dichloroethene	96	6.517	6.522	-0.005	51	3666	0.0528	
25 Acetone	43	6.730	6.714	0.016	76	19888	0.3863	
26 Isopropyl alcohol	45	6.928	6.917	0.011	62	3869	0.0841	
27 Carbon disulfide	76	6.954	6.954	0.0	85	9544	0.0613	
29 3-Chloro-1-propene	41	7.242	7.253	-0.011	39	2615	0.0569	
30 Acetonitrile	41	7.376	7.371	0.005	77	2263	0.0997	
31 Methylene Chloride	49	7.525	7.520	0.005	57	4383	0.1031	
32 2-Methyl-2-propanol	59	7.627	7.621	0.006	49	4358	0.0502	
33 Methyl tert-butyl ether	73	7.856	7.846	0.010	60	8164	0.0478	
34 trans-1,2-Dichloroethene	61	7.904	7.915	-0.011	40	3485	0.0501	
35 Acrylonitrile	53	8.048	8.043	0.005	62	991	0.0323	

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags			
36	Hexane		57	8.224	8.230	-0.006	73	4402	0.0611	
37	1,1-Dichloroethane		63	8.673	8.684	-0.011	59	4927	0.0512	
38	Vinyl acetate		43	8.683	8.689	-0.006	96	4606	0.0532	
39	cis-1,2-Dichloroethene		96	9.585	9.591	-0.006	14	3836	0.0498	
41	Ethyl acetate		88		9.591					
40	2-Butanone (MEK)		72	9.601	9.596	0.005	93	6139	0.1939	
43	Tetrahydrofuran		42	9.970	9.959	0.011	19	2559	0.0748	
* 44	Chlorobromomethane		128	9.964	8.558	1.406	68	635388	10.0	
S 42	1,2-Dichloroethene, Total		61				0		0.0999	
45	Chloroform		83	10.028	10.034	-0.006	32	6755	0.0506	
46	Cyclohexane		84	10.274	10.274	0.0	36	4638	0.0503	
47	1,1,1-Trichloroethane		97	10.279	10.285	-0.006	60	7106	0.0495	
48	Carbon tetrachloride		117	10.477	10.477	0.0	75	7688	0.0477	
49	Isooctane		57	10.743	10.749	-0.006	90	12251	0.0523	
50	Benzene		78	10.813	10.824	-0.011	62	11488	0.0561	
51	1,2-Dichloroethane		62	10.936	10.941	-0.005	66	3647	0.0524	
52	n-Heptane		43	10.989	11.000	-0.011	65	3852	0.0572	
A 53	GRO		1	11.032	4.927 - 17.137		0	1843153	0	
* 54	1,4-Difluorobenzene		114	11.363	11.368	-0.005	91	3136422	10.0	
56	n-Butanol		56	11.555	11.544	0.011	61	2918	0.1166	
57	Trichloroethene		95	11.725	11.726	-0.001	64	5064	0.0496	
58	1,2-Dichloropropane		63	12.115	12.120	-0.005	46	3330	0.0559	
59	Methyl methacrylate		69		12.147					
60	1,4-Dioxane		88	12.259	12.238	0.021	35	2141	0.0636	
61	Dibromomethane		174	12.297	12.307	-0.010	81	5588	0.0524	
62	Dichlorobromomethane		83	12.462	12.473	-0.011	66	7099	0.0484	
A 63	TVOC as Toluene		1	12.705	3.160 - 22.249		0	2777462	14.3	
64	cis-1,3-Dichloropropene		75	13.092	13.102	-0.010	42	4850	0.0454	
65	4-Methyl-2-pentanone (MIBK)		43	13.263	13.257	0.005	71	6861	0.0830	
67	n-Octane		43	13.471	13.476	-0.005	70	5405	0.0592	
68	Toluene		92	13.513	13.524	-0.011	71	8267	0.0495	
70	trans-1,3-Dichloropropene		75	13.898	13.898	0.0	38	4947	0.0450	
71	1,1,2-Trichloroethane		83		14.175					
72	Tetrachloroethene		166	14.282	14.277	0.005	71	7833	0.0476	M
73	2-Hexanone		43	14.426	14.426	0.0	68	4492	0.0558	
74	Chlorodibromomethane		129	14.703	14.709	-0.006	60	8288	0.0460	
75	Ethylene Dibromide		107	14.912	14.917	-0.005	60	7418	0.0472	
* 76	Chlorobenzene-d5		117	15.451	15.456	-0.005	80	2696067	10.0	
77	Chlorobenzene		112	15.488	15.493	-0.005	21	12607	0.0509	
78	n-Nonane		57	15.547	15.547	0.0	69	6671	0.0622	
79	Ethylbenzene		91	15.552	15.557	-0.005	79	18617	0.0555	
80	m-Xylene & p-Xylene		106	15.696	15.702	-0.006	97	16259	0.1102	
S 81	Xylenes, Total		106				0		0.1614	
82	o-Xylene		106	16.203	16.209	-0.006	81	7834	0.0512	
83	Styrene		104	16.230	16.235	-0.005	88	10490	0.0449	
84	Bromoform		173	16.523	16.529	-0.006	89	8428	0.0477	
85	Isopropylbenzene		105	16.609	16.609	0.0	75	21196	0.0488	
\$ 86	4-Bromofluorobenzene		95	16.870	16.870	0.0	98	1678041	NC	
87	1,1,2,2-Tetrachloroethane		83	17.025	17.025	0.0	76	9910	0.0514	
88	N-Propylbenzene		91	17.078	17.084	-0.006	92	26207	0.0546	
89	1,2,3-Trichloropropane		75	17.110	17.116	-0.006	76	8059	0.0638	
90	n-Decane		57	17.126	17.127	0.0	76	8135	0.0626	

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response		On-Col Amt ppb v/v	Flags	
91	4-Ethyltoluene		105	17.206	17.207	-0.001	76	22188	0.0509
92	2-Chlorotoluene		91	17.255	17.255	-0.001	69	16933	0.0512
93	1,3,5-Trimethylbenzene		105	17.271	17.276	-0.005	86	19944	0.0550
94	Alpha Methyl Styrene		118	17.553	17.553	0.0	79	8189	0.0426
95	tert-Butylbenzene		119	17.655	17.660	-0.005	81	18912	0.0515
96	1,2,4-Trimethylbenzene		105	17.729	17.730	-0.001	70	19716	0.0526
97	sec-Butylbenzene		105	17.922	17.922	0.0	86	27546	0.0514
98	4-Isopropyltoluene		119	18.076	18.076	0.0	73	23640	0.0513
99	1,3-Dichlorobenzene		146	18.156	18.162	-0.006	87	12941	0.0467
100	1,4-Dichlorobenzene		146	18.269	18.274	-0.005	85	12921	0.0468
101	Benzyl chloride		91	18.439	18.445	-0.006	75	11990	0.0397
102	Undecane		57	18.535	18.535	0.0	82	6924	0.0494
103	n-Butylbenzene		91	18.589	18.594	-0.005	78	16395	0.0437
104	1,2-Dichlorobenzene		146	18.776	18.781	-0.005	80	12239	0.0462
106	Dodecane		57		20.046				
107	1,2,4-Trichlorobenzene		180	21.225	21.225	0.0	1	1332	0.007212
108	Hexachlorobutadiene		225	21.380	21.385	-0.005	55	6634	0.0447
109	Naphthalene		128	21.748	21.748	0.0	1	2406	0.005502
110	1,2,3-Trichlorobenzene		180		22.239				

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_003.D

Injection Date: 14-Mar-2014 12:11:30

Instrument ID: CHB.i

Operator ID: pad

Lims ID: IC

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

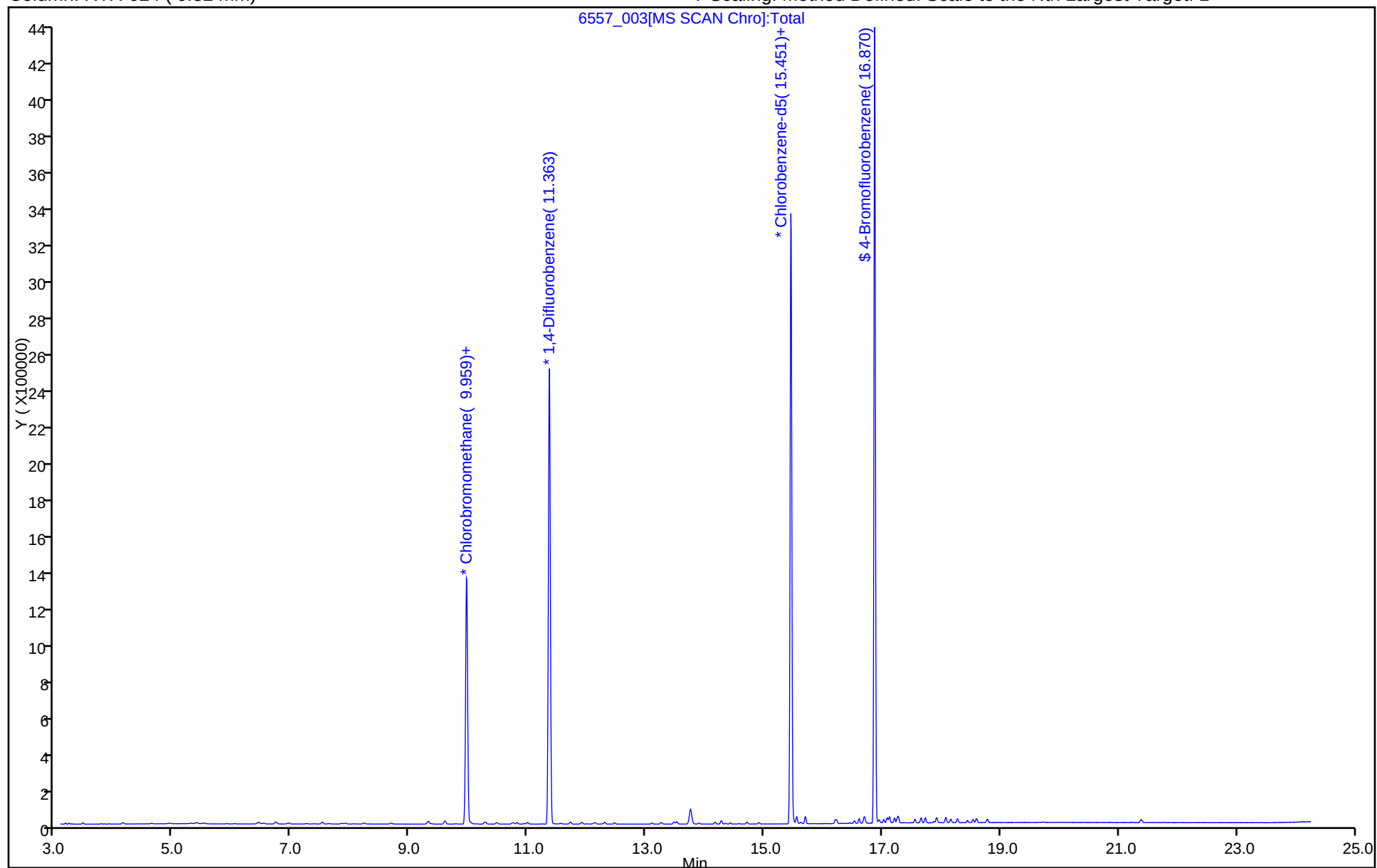
ALS Bottle#: 1

Method: TO15_LL NJ_TO3

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



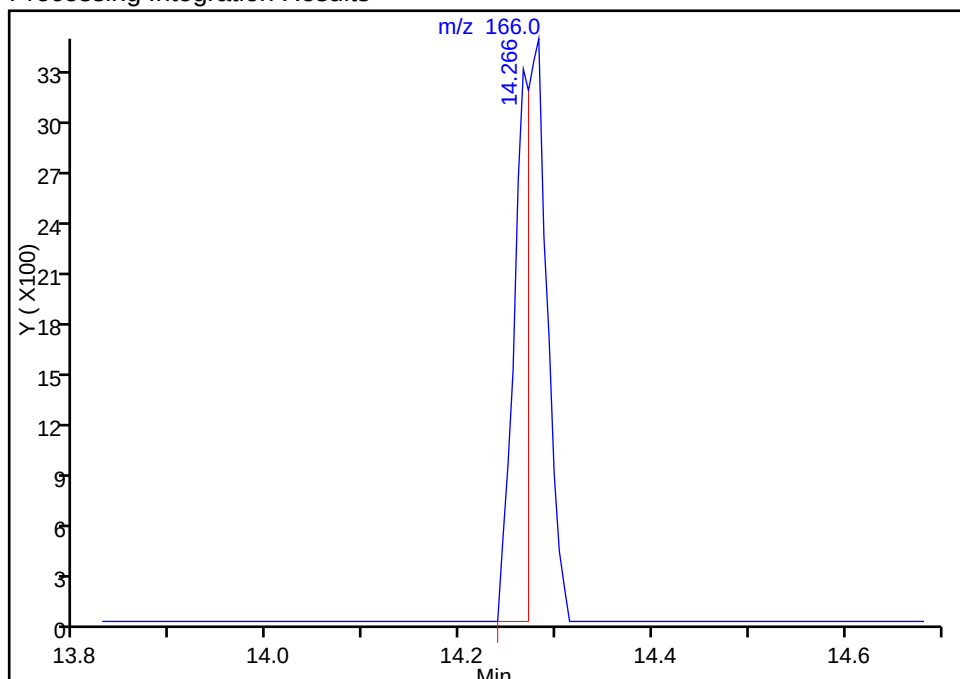
TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_003.D
Injection Date: 14-Mar-2014 12:11:30 Instrument ID: CHB.i
Lims ID: IC
Client ID:
Operator ID: pad ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_LLNJ_TO3 Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector: MS SCAN

72 Tetrachloroethene, CAS: 127-18-4

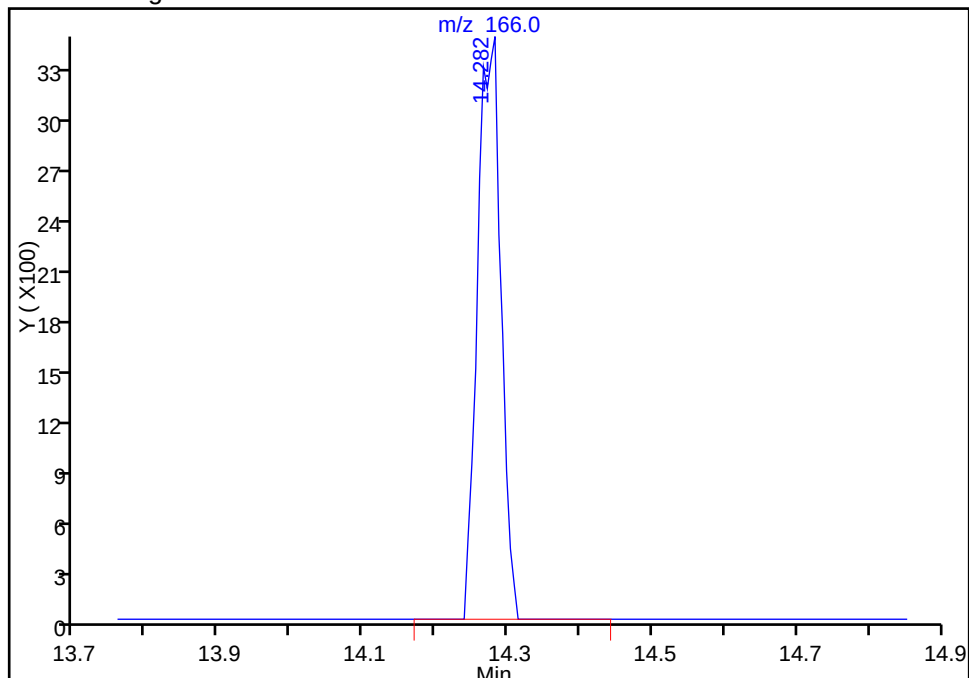
RT: 14.27
Response: 3865
Amount: 0.025379

Processing Integration Results



RT: 14.28
Response: 7833
Amount: 0.047569

Manual Integration Results



Reviewer: daiglep, 17-Mar-2014 10:07:25
Audit Action: Manually Integrated
Audit Reason: Baseline Event

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_004.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 14-Mar-2014 13:03:30 ALS Bottle#: 2 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 200-0006557-004
 Misc. Info.: level 2
 Operator ID: pad Instrument ID: CHB.i
 Sublist: chrom-TO15_LLNJ_TO3*sub5
 Method: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\TO15_LLNJ_TO3.m
 Limit Group: AI_TO15_ICAL
 Last Update: 17-Mar-2014 10:55:06 Calib Date: 14-Mar-2014 18:16:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal/External Standard Quant By: Initial Calibration
 Last ICal File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
4 Propene	41	3.165	3.170	-0.005	87	4452	0.4042	
5 Dichlorodifluoromethane	85	3.229	3.235	-0.006	95	25424	0.2755	
6 Chlorodifluoromethane	51	3.272	3.272	0.0	66	8901	0.2596	
7 1,2-Dichloro-1,1,2,2-tetrafluoro	85	3.459	3.464	-0.005	81	22832	0.2575	
8 Chloromethane	50	3.603	3.603	0.0	70	4732	0.2768	
9 Butane	43	3.784	3.784	0.0	83	8276	0.2907	
10 Vinyl chloride	62	3.832	3.832	0.0	52	6759	0.2317	
11 Butadiene	54	3.896	3.902	-0.006	80	4495	0.2298	
12 Bromomethane	94	4.628	4.627	0.001	90	14266	0.2520	
13 BFB								
14 Chloroethane	64	4.868	4.873	-0.005	68	5956	0.2683	
15 2-Methylbutane	43	4.926	4.937	-0.011	82	9658	0.2955	
16 Vinyl bromide	106	5.289	5.295	-0.006	94	15813	0.2433	
17 Trichlorofluoromethane	101	5.385	5.385	0.0	94	39736	0.2465	
18 Pentane	43	5.513	5.524	-0.011	91	17399	0.3045	
19 Ethanol	45	5.887	5.887	0.0	93	11619	0.8131	
21 Ethyl ether	59	6.026	6.020	0.006	77	7929	0.2345	
22 Acrolein	56	6.431	6.437	-0.006	17	6450	0.4629	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.431	6.442	-0.011	91	35311	0.2509	
24 1,1-Dichloroethene	96	6.517	6.522	-0.005	79	16258	0.2352	
25 Acetone	43	6.720	6.714	0.006	90	86377	1.69	
26 Isopropyl alcohol	45	6.912	6.917	-0.005	86	16758	0.3663	
27 Carbon disulfide	76	6.949	6.954	-0.005	96	47217	0.3047	
29 3-Chloro-1-propene	41	7.248	7.253	-0.005	76	12058	0.2638	
30 Acetonitrile	41	7.376	7.371	0.005	93	8875	0.3929	
31 Methylene Chloride	49	7.515	7.520	-0.005	72	15966	0.3774	
32 2-Methyl-2-propanol	59	7.616	7.621	-0.005	92	21332	0.2471	
33 Methyl tert-butyl ether	73	7.846	7.846	0.0	93	39086	0.2303	
34 trans-1,2-Dichloroethene	61	7.910	7.915	-0.005	73	17043	0.2464	
35 Acrylonitrile	53	8.043	8.043	0.0	80	7588	0.2484	
36 Hexane	57	8.225	8.230	-0.005	79	18271	0.2548	

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response		On-Col Amt ppb v/v	Flags	
* 44	Chlorobromomethane		128	9.959	8.558	1.401	68	632086	10.0
37	1,1-Dichloroethane		63	8.678	8.684	-0.006	79	23185	0.2423
38	Vinyl acetate		43	8.684	8.689	-0.005	98	22330	0.2595
41	Ethyl acetate		88		9.591				
39	cis-1,2-Dichloroethene		96	9.586	9.591	-0.005	87	19206	0.2506
40	2-Butanone (MEK)		72	9.591	9.596	-0.005	98	30365	0.9642
43	Tetrahydrofuran		42	9.964	9.959	0.005	30	11597	0.3423
S 42	1,2-Dichloroethene, Total		61				0		0.4970
45	Chloroform		83	10.029	10.034	-0.006	87	32622	0.2457
46	Cyclohexane		84	10.274	10.274	0.0	65	22263	0.2436
47	1,1,1-Trichloroethane		97	10.274	10.285	-0.011	87	34702	0.2440
48	Carbon tetrachloride		117	10.471	10.477	-0.006	95	36346	0.2278
49	Isooctane		57	10.744	10.749	-0.005	96	57197	0.2467
50	Benzene		78	10.818	10.824	-0.006	91	51207	0.2525
51	1,2-Dichloroethane		62	10.930	10.941	-0.011	85	16799	0.2436
52	n-Heptane		43	10.994	11.000	-0.006	74	18279	0.2741
A 53	GRO		1	11.032	4.927 - 17.137		0	7228199	0
* 54	1,4-Difluorobenzene		114	11.363	11.368	-0.005	91	3107031	10.0
56	n-Butanol		56	11.544	11.544	0.0	77	12811	0.5167
57	Trichloroethene		95	11.720	11.726	-0.006	87	24102	0.2383
58	1,2-Dichloropropane		63	12.115	12.120	-0.005	87	15200	0.2577
59	Methyl methacrylate		69	12.142	12.147	-0.005	85	14685	0.2404
60	1,4-Dioxane		88	12.238	12.238	0.0	67	9726	0.2917
61	Dibromomethane		174	12.302	12.307	-0.005	90	25631	0.2426
62	Dichlorobromomethane		83	12.467	12.473	-0.006	94	34739	0.2393
A 63	TVOC as Toluene		1	12.705	3.160 - 22.249		0	11725467	61.0
64	cis-1,3-Dichloropropene		75	13.097	13.102	-0.005	70	24251	0.2292
65	4-Methyl-2-pentanone (MIBK)		43	13.252	13.257	-0.005	87	34962	0.4272
67	n-Octane		43	13.476	13.476	0.0	76	24552	0.2714
68	Toluene		92	13.519	13.524	-0.005	89	40930	0.2465
70	trans-1,3-Dichloropropene		75	13.892	13.898	-0.006	86	24509	0.2249
71	1,1,2-Trichloroethane		83	14.170	14.175	-0.005	91	18328	0.2494
72	Tetrachloroethene		166	14.277	14.277	0.0	95	39642	0.2420
73	2-Hexanone		43	14.426	14.426	0.0	83	23571	0.2943
74	Chlorodibromomethane		129	14.704	14.709	-0.005	94	40982	0.2287
75	Ethylene Dibromide		107	14.912	14.917	-0.005	96	36645	0.2346
* 76	Chlorobenzene-d5		117	15.451	15.456	-0.005	80	2681551	10.0
77	Chlorobenzene		112	15.488	15.493	-0.005	87	59607	0.2417
78	n-Nonane		57	15.547	15.547	0.0	80	30365	0.2846
79	Ethylbenzene		91	15.552	15.557	-0.005	95	89374	0.2679
80	m-Xylene & p-Xylene		106	15.696	15.702	-0.006	98	75656	0.5154
S 81	Xylenes, Total		106				0		0.7590
82	o-Xylene		106	16.203	16.209	-0.006	92	37045	0.2436
83	Styrene		104	16.230	16.235	-0.005	96	53527	0.2305
84	Bromoform		173	16.524	16.529	-0.005	98	40971	0.2329
85	Isopropylbenzene		105	16.604	16.609	-0.005	91	104358	0.2418
\$ 86	4-Bromofluorobenzene		95	16.870	16.870	0.0	99	1676356	NC
87	1,1,2,2-Tetrachloroethane		83	17.020	17.025	-0.005	92	48641	0.2537
88	N-Propylbenzene		91	17.079	17.084	-0.005	96	120949	0.2534
89	1,2,3-Trichloropropane		75	17.111	17.116	-0.005	91	37223	0.2964
90	n-Decane		57	17.127	17.127	0.001	79	40816	0.3159
91	4-Ethyltoluene		105	17.207	17.207	0.0	96	107800	0.2485

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags		
92	2-Chlorotoluene		91	17.249	17.255	-0.006	88	85154	0.2590
93	1,3,5-Trimethylbenzene		105	17.271	17.276	-0.005	94	98925	0.2743
94	Alpha Methyl Styrene		118	17.554	17.553	0.001	90	41079	0.2147
95	tert-Butylbenzene		119	17.655	17.660	-0.005	93	88687	0.2427
96	1,2,4-Trimethylbenzene		105	17.730	17.730	0.0	94	98972	0.2655
97	sec-Butylbenzene		105	17.916	17.922	-0.006	95	133548	0.2503
98	4-Isopropyltoluene		119	18.071	18.076	-0.005	82	113149	0.2467
99	1,3-Dichlorobenzene		146	18.157	18.162	-0.005	98	64644	0.2343
100	1,4-Dichlorobenzene		146	18.269	18.274	-0.005	96	64551	0.2350
101	Benzyl chloride		91	18.439	18.445	-0.006	97	59765	0.1990
102	Undecane		57	18.530	18.535	-0.005	88	43249	0.3100
103	n-Butylbenzene		91	18.594	18.594	0.0	93	89107	0.2390
104	1,2-Dichlorobenzene		146	18.776	18.781	-0.005	98	61816	0.2347
106	Dodecane		57	20.041	20.046	-0.005	83	15158	0.1255
107	1,2,4-Trichlorobenzene		180	21.225	21.225	0.0	80	23801	0.1296
108	Hexachlorobutadiene		225	21.380	21.385	-0.005	88	38842	0.2634
109	Naphthalene		128	21.748	21.748	0.0	94	48063	0.1105
110	1,2,3-Trichlorobenzene		180	22.239	22.239	0.0	77	18691	0.1185

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_004.D

Injection Date: 14-Mar-2014 13:03:30

Instrument ID: CHB.i

Operator ID: pad

Lims ID: IC

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

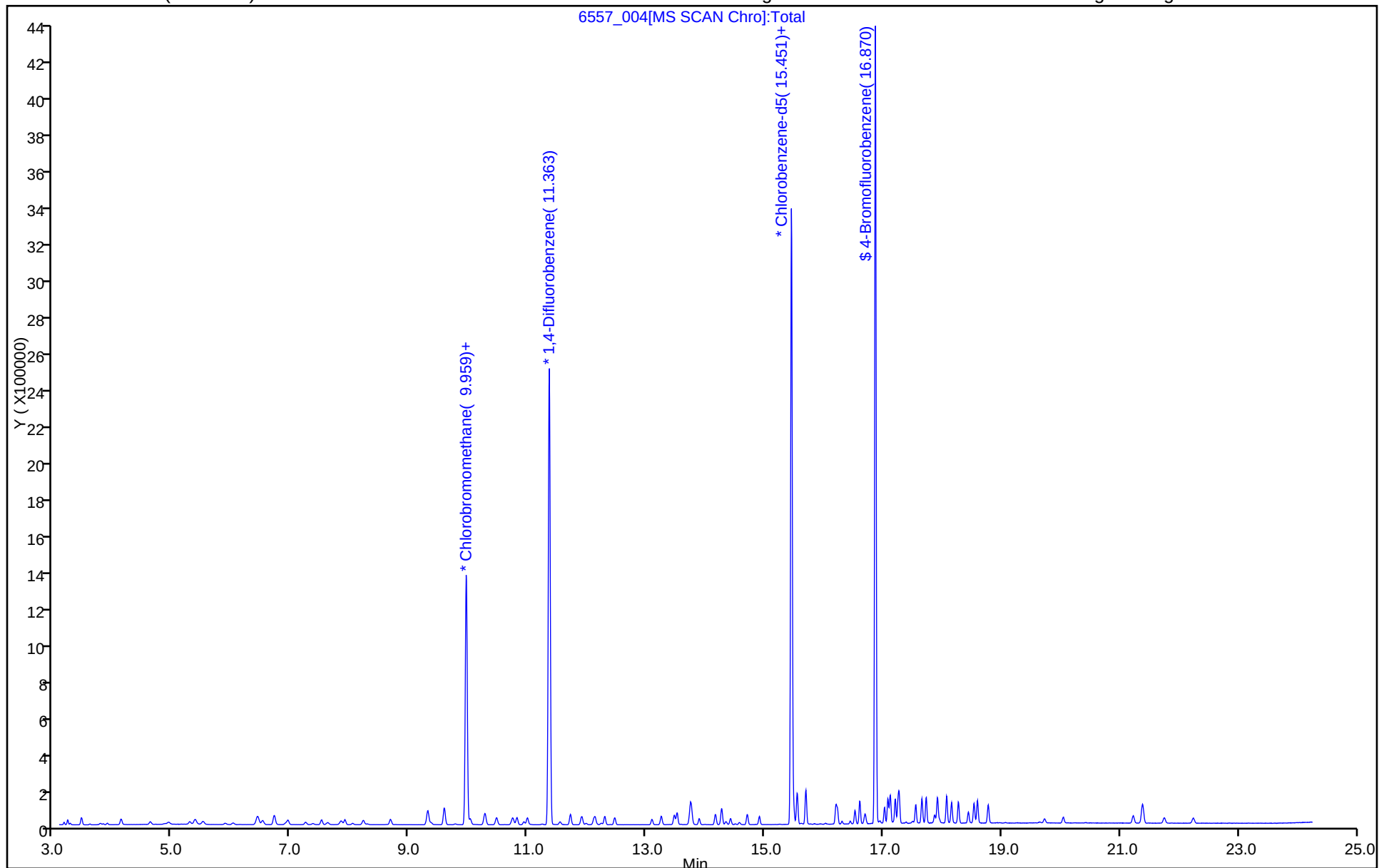
ALS Bottle#: 2

Method: TO15_LL NJ_TO3

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_005.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 14-Mar-2014 13:55:30 ALS Bottle#: 3 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 200-0006557-005
 Misc. Info.: level 3
 Operator ID: pad Instrument ID: CHB.i
 Sublist: chrom-TO15_LLNJ_TO3*sub5
 Method: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\TO15_LLNJ_TO3.m
 Limit Group: AI_TO15_ICAL
 Last Update: 17-Mar-2014 10:55:08 Calib Date: 14-Mar-2014 18:16:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal/External Standard Quant By: Initial Calibration
 Last ICal File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
4 Propene	41	3.176	3.170	0.006	92	8571	0.7889	
5 Dichlorodifluoromethane	85	3.234	3.235	-0.001	98	58127	0.6386	
6 Chlorodifluoromethane	51	3.277	3.272	0.005	84	20609	0.6095	
7 1,2-Dichloro-1,1,2,2-tetrafluoro	85	3.464	3.464	0.0	85	52621	0.6017	
8 Chloromethane	50	3.608	3.603	0.005	92	10528	0.6244	
9 Butane	43	3.790	3.784	0.006	93	18121	0.6454	
10 Vinyl chloride	62	3.832	3.832	0.0	79	16249	0.5647	
11 Butadiene	54	3.907	3.902	0.005	84	10668	0.5529	
12 Bromomethane	94	4.633	4.627	0.006	93	33647	0.6025	
13 BFB								
14 Chloroethane	64	4.878	4.873	0.005	87	13933	0.6364	
15 2-Methylbutane	43	4.942	4.937	0.005	86	20288	0.6295	
16 Vinyl bromide	106	5.300	5.295	0.005	95	38039	0.5935	
17 Trichlorofluoromethane	101	5.391	5.385	0.006	94	95353	0.5997	
18 Pentane	43	5.519	5.524	-0.005	96	37924	0.6730	
19 Ethanol	45	5.887	5.887	0.0	99	79522	5.64	
21 Ethyl ether	59	6.026	6.020	0.006	88	19022	0.5704	
22 Acrolein	56	6.437	6.437	0.0	29	11858	0.8628	
23 1,1,2-Trichloro-1,2,2-trifluoro	101	6.442	6.442	0.0	95	78917	0.5685	
24 1,1-Dichloroethene	96	6.522	6.522	0.0	87	37925	0.5563	
25 Acetone	43	6.719	6.714	0.005	90	111952	2.22	
26 Isopropyl alcohol	45	6.912	6.917	-0.005	95	30782	0.6822	
27 Carbon disulfide	76	6.954	6.954	0.0	96	91269	0.5971	
29 3-Chloro-1-propene	41	7.253	7.253	0.0	84	26500	0.5878	
30 Acetonitrile	41	7.376	7.371	0.005	99	18378	0.8250	
31 Methylene Chloride	49	7.520	7.520	0.0	75	30143	0.7224	
32 2-Methyl-2-propanol	59	7.627	7.621	0.006	94	49491	0.5812	
33 Methyl tert-butyl ether	73	7.851	7.846	0.005	93	91627	0.5473	
34 trans-1,2-Dichloroethene	61	7.915	7.915	0.0	78	39584	0.5803	
35 Acrylonitrile	53	8.048	8.043	0.005	94	17800	0.5907	
36 Hexane	57	8.230	8.230	0.0	83	41169	0.5821	

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response		On-Col Amt ppb v/v		Flags	
* 44	Chlorobromomethane			128	9.964	8.558	1.406	68	623430	10.0
37	1,1-Dichloroethane			63	8.678	8.684	-0.006	94	53584	0.5679
38	Vinyl acetate			43	8.689	8.689	0.0	98	53083	0.6254
41	Ethyl acetate			88		9.591				
39	cis-1,2-Dichloroethene			96	9.585	9.591	-0.006	90	43454	0.5748
40	2-Butanone (MEK)			72	9.596	9.596	0.0	100	26204	0.8436
43	Tetrahydrofuran			42	9.970	9.959	0.011	32	22320	0.6654
S 42	1,2-Dichloroethene, Total			61				0		1.16
45	Chloroform			83	10.034	10.034	0.0	89	74646	0.5700
46	Cyclohexane			84	10.274	10.274	0.0	78	52451	0.5796
47	1,1,1-Trichloroethane			97	10.285	10.285	0.0	93	79404	0.5639
48	Carbon tetrachloride			117	10.477	10.477	0.0	97	84690	0.5361
49	Isooctane			57	10.749	10.749	0.0	98	134899	0.5877
50	Benzene			78	10.818	10.824	-0.006	91	117698	0.5861
51	1,2-Dichloroethane			62	10.936	10.941	-0.005	87	39188	0.5741
52	n-Heptane			43	10.994	11.000	-0.006	78	41308	0.6256
A 53	GRO			1	11.032	4.927 -	17.137	0	16491845	0
* 54	1,4-Difluorobenzene			114	11.363	11.368	-0.005	91	3076020	10.0
56	n-Butanol			56	11.549	11.544	0.005	80	16303	0.6642
57	Trichloroethene			95	11.720	11.726	-0.006	92	54752	0.5468
58	1,2-Dichloropropane			63	12.115	12.120	-0.005	87	35366	0.6056
59	Methyl methacrylate			69	12.136	12.147	-0.011	85	33960	0.5615
60	1,4-Dioxane			88	12.238	12.238	0.0	81	20810	0.6305
61	Dibromomethane			174	12.302	12.307	-0.005	91	59019	0.5643
62	Dichlorobromomethane			83	12.467	12.473	-0.006	96	79649	0.5541
A 63	TVOC as Toluene			1	12.705	3.160 -	22.249	0	26958727	141.6
64	cis-1,3-Dichloropropene			75	13.097	13.102	-0.005	84	57084	0.5450
65	4-Methyl-2-pentanone (MIBK)			43	13.252	13.257	-0.005	88	47898	0.5912
67	n-Octane			43	13.476	13.476	0.0	78	56176	0.6273
68	Toluene			92	13.524	13.524	0.0	90	95787	0.5813
70	trans-1,3-Dichloropropene			75	13.898	13.898	0.0	90	57421	0.5323
71	1,1,2-Trichloroethane			83	14.170	14.175	-0.005	92	41944	0.5750
72	Tetrachloroethene			166	14.277	14.277	0.0	96	91737	0.5643
73	2-Hexanone			43	14.426	14.426	0.0	87	49225	0.6191
74	Chlorodibromomethane			129	14.709	14.709	0.0	96	97899	0.5505
75	Ethylene Dibromide			107	14.912	14.917	-0.005	98	86600	0.5586
* 76	Chlorobenzene-d5			117	15.456	15.456	0.0	79	2661622	10.0
77	Chlorobenzene			112	15.493	15.493	0.0	60	141044	0.5763
78	n-Nonane			57	15.547	15.547	0.0	79	70239	0.6631
79	Ethylbenzene			91	15.552	15.557	-0.005	96	205924	0.6218
80	m-Xylene & p-Xylene			106	15.696	15.702	-0.006	98	179129	1.23
S 81	Xylenes, Total			106				0		1.82
82	o-Xylene			106	16.203	16.209	-0.006	94	88465	0.5861
83	Styrene			104	16.230	16.235	-0.005	98	129371	0.5613
84	Bromoform			173	16.529	16.529	0.0	99	97515	0.5585
85	Isopropylbenzene			105	16.609	16.609	0.0	93	250560	0.5848
\$ 86	4-Bromofluorobenzene			95	16.870	16.870	0.0	98	1709570	NC
87	1,1,2,2-Tetrachloroethane			83	17.025	17.025	0.0	96	113755	0.5979
88	N-Propylbenzene			91	17.078	17.084	-0.006	95	285137	0.6018
89	1,2,3-Trichloropropane			75	17.110	17.116	-0.006	90	84639	0.6789
90	n-Decane			57	17.126	17.127	0.0	79	90811	0.7081
91	4-Ethyltoluene			105	17.207	17.207	0.0	97	251275	0.5837

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags		
92	2-Chlorotoluene		91	17.255	17.255	0.0	94	195591	0.5995
93	1,3,5-Trimethylbenzene		105	17.271	17.276	-0.005	93	210455	0.5879
94	Alpha Methyl Styrene		118	17.553	17.553	0.0	90	101344	0.5336
95	tert-Butylbenzene		119	17.655	17.660	-0.005	91	214734	0.5921
96	1,2,4-Trimethylbenzene		105	17.730	17.730	0.0	95	211879	0.5726
97	sec-Butylbenzene		105	17.916	17.922	-0.006	98	325491	0.6147
98	4-Isopropyltoluene		119	18.076	18.076	0.0	85	269051	0.5911
99	1,3-Dichlorobenzene		146	18.156	18.162	-0.006	98	162406	0.5931
100	1,4-Dichlorobenzene		146	18.274	18.274	0.0	97	157663	0.5782
101	Benzyl chloride		91	18.439	18.445	-0.006	100	156864	0.5264
102	Undecane		57	18.535	18.535	0.0	88	100102	0.7229
103	n-Butylbenzene		91	18.594	18.594	0.0	94	222001	0.5999
104	1,2-Dichlorobenzene		146	18.776	18.781	-0.005	99	152286	0.5825
106	Dodecane		57	20.040	20.046	-0.006	89	58070	0.4843
107	1,2,4-Trichlorobenzene		180	21.225	21.225	0.0	91	83237	0.4565
108	Hexachlorobutadiene		225	21.380	21.385	-0.005	93	94901	0.6483
109	Naphthalene		128	21.748	21.748	0.0	99	174415	0.4040
110	1,2,3-Trichlorobenzene		180	22.239	22.239	0.0	95	71612	0.4575

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_005.D

Injection Date: 14-Mar-2014 13:55:30

Instrument ID: CHB.i

Operator ID: pad

Lims ID: IC

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

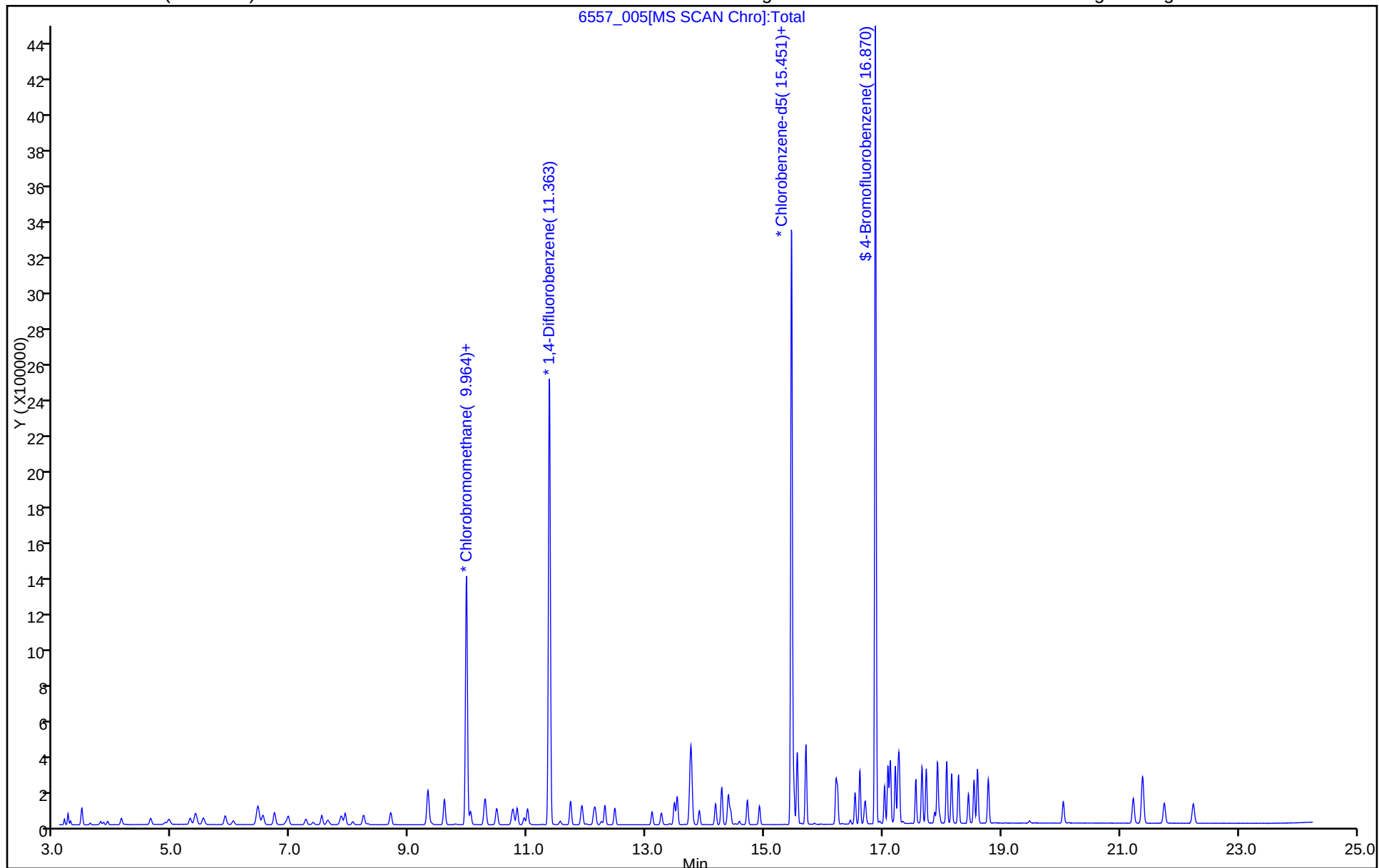
ALS Bottle#: 3

Method: TO15_LL NJ_TO3

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_006.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 14-Mar-2014 14:47:30 ALS Bottle#: 4 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 200-0006557-006
 Misc. Info.: level 4
 Operator ID: pad Instrument ID: CHB.i
 Sublist: chrom-TO15_LLNJ_TO3*sub5
 Method: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\TO15_LLNJ_TO3.m
 Limit Group: AI_TO15_ICAL
 Last Update: 17-Mar-2014 10:55:10 Calib Date: 14-Mar-2014 18:16:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal/External Standard Quant By: Initial Calibration
 Last ICal File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
4 Propene	41	3.170	3.170	0.0	97	57846	5.17	
5 Dichlorodifluoromethane	85	3.234	3.235	-0.001	95	481596	5.14	
6 Chlorodifluoromethane	51	3.277	3.272	0.005	93	170467	4.90	
7 1,2-Dichloro-1,1,2,2-tetrafluoro	85	3.464	3.464	0.0	88	435762	4.84	
8 Chloromethane	50	3.608	3.603	0.005	99	83492	4.81	
9 Butane	43	3.784	3.784	0.0	95	138783	4.80	
10 Vinyl chloride	62	3.832	3.832	0.0	87	139181	4.70	
11 Butadiene	54	3.901	3.902	-0.001	90	96202	4.84	
12 Bromomethane	94	4.627	4.627	0.0	99	279835	4.87	
13 BFB								
14 Chloroethane	64	4.873	4.873	0.0	97	114968	5.10	
15 2-Methylbutane	43	4.937	4.937	0.0	87	155767	4.69	
16 Vinyl bromide	106	5.294	5.295	-0.001	97	323401	4.90	
17 Trichlorofluoromethane	101	5.390	5.385	0.005	97	798212	4.88	
18 Pentane	43	5.524	5.524	0.0	95	295295	5.09	
19 Ethanol	45	5.887	5.887	0.0	99	128955	8.89	
21 Ethyl ether	59	6.020	6.020	0.0	89	166445	4.85	
22 Acrolein	56	6.437	6.437	0.0	96	80218	5.67	
23 1,1,2-Trichloro-1,2,2-trifluoro	101	6.442	6.442	0.0	96	672307	4.70	
24 1,1-Dichloroethene	96	6.527	6.522	0.005	87	327709	4.67	
25 Acetone	43	6.719	6.714	0.005	91	262630	5.05	
26 Isopropyl alcohol	45	6.917	6.917	0.0	98	249273	5.37	
27 Carbon disulfide	76	6.954	6.954	0.0	97	767517	4.88	
29 3-Chloro-1-propene	41	7.253	7.253	0.0	85	227884	4.91	
30 Acetonitrile	41	7.370	7.371	-0.001	100	122363	5.33	
31 Methylene Chloride	49	7.520	7.520	0.0	76	214839	5.00	
32 2-Methyl-2-propanol	59	7.621	7.621	0.0	98	441312	5.03	
33 Methyl tert-butyl ether	73	7.851	7.846	0.005	95	812400	4.71	
34 trans-1,2-Dichloroethene	61	7.915	7.915	0.0	82	339144	4.83	
35 Acrylonitrile	53	8.043	8.043	0.0	96	155452	5.01	
36 Hexane	57	8.230	8.230	0.0	85	351686	4.83	

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags		
* 44	Chlorobromomethane		128	9.964	8.558	1.406	68	641912	10.0
37	1,1-Dichloroethane		63	8.683	8.684	-0.001	99	452748	4.66
38	Vinyl acetate		43	8.689	8.689	0.0	98	475027	5.44
41	Ethyl acetate		88	9.591	9.591	0.0	89	29154	5.14
39	cis-1,2-Dichloroethene		96	9.591	9.591	0.0	96	376774	4.84
40	2-Butanone (MEK)		72	9.596	9.596	0.0	99	146884	4.59
43	Tetrahydrofuran		42	9.959	9.959	0.0	82	184951	5.40
S 42	1,2-Dichloroethene, Total		61				0		9.67
45	Chloroform		83	10.034	10.034	0.0	92	638145	4.73
46	Cyclohexane		84	10.274	10.274	0.0	78	453345	4.91
47	1,1,1-Trichloroethane		97	10.284	10.285	-0.001	94	694187	4.83
48	Carbon tetrachloride		117	10.477	10.477	0.0	97	741752	4.60
49	Isooctane		57	10.749	10.749	0.0	98	1170360	4.99
50	Benzene		78	10.823	10.824	-0.001	92	976766	4.76
51	1,2-Dichloroethane		62	10.941	10.941	0.0	98	332018	4.76
52	n-Heptane		43	10.994	11.000	-0.006	78	332828	4.94
A 53	GRO		1	11.032	4.927 - 17.137		0	118434293	0
* 54	1,4-Difluorobenzene		114	11.368	11.368	0.0	91	3141317	10.0
56	n-Butanol		56	11.544	11.544	0.0	79	123822	4.94
57	Trichloroethene		95	11.725	11.726	-0.001	92	474548	4.64
58	1,2-Dichloropropane		63	12.120	12.120	0.0	92	291733	4.89
59	Methyl methacrylate		69	12.142	12.147	-0.005	83	315002	5.10
60	1,4-Dioxane		88	12.238	12.238	0.0	83	169229	5.02
61	Dibromomethane		174	12.302	12.307	-0.005	91	524669	4.91
62	Dichlorobromomethane		83	12.473	12.473	0.0	97	712958	4.86
A 63	TVOC as Toluene		1	12.705	3.160 - 22.249		0	209444866	1077.0
64	cis-1,3-Dichloropropene		75	13.102	13.102	0.0	85	516162	4.83
65	4-Methyl-2-pentanone (MIBK)		43	13.257	13.257	0.0	88	429924	5.20
A 66	C8 Range		1	13.457	13.426 -13.506		0	2353773	NC
67	n-Octane		43	13.476	13.476	0.0	78	464584	5.08
68	Toluene		92	13.524	13.524	0.0	91	816354	4.76
A 69	Toluene Range		1	13.539	13.514 -13.564		0	3073033	NC
70	trans-1,3-Dichloropropene		75	13.898	13.898	0.0	91	534250	4.85
71	1,1,2-Trichloroethane		83	14.175	14.175	0.0	92	361660	4.76
72	Tetrachloroethene		166	14.276	14.277	-0.001	96	807492	4.77
73	2-Hexanone		43	14.426	14.426	0.0	87	417306	5.04
74	Chlorodibromomethane		129	14.709	14.709	0.0	97	903205	4.88
75	Ethylene Dibromide		107	14.912	14.917	-0.005	99	775530	4.81
* 76	Chlorobenzene-d5		117	15.456	15.456	0.0	78	2769425	10.0
77	Chlorobenzene		112	15.493	15.493	0.0	95	1215122	4.77
78	n-Nonane		57	15.547	15.547	0.0	78	557391	5.06
79	Ethylbenzene		91	15.557	15.557	0.0	96	1750749	5.08
80	m-Xylene & p-Xylene		106	15.701	15.702	-0.001	98	1548469	10.2
S 81	Xylenes, Total		106				0		15.2
82	o-Xylene		106	16.208	16.209	-0.001	95	777411	4.95
83	Styrene		104	16.230	16.235	-0.005	97	1214818	5.07
84	Bromoform		173	16.529	16.529	0.0	99	954393	5.25
85	Isopropylbenzene		105	16.609	16.609	0.0	93	2203399	4.94
\$ 86	4-Bromofluorobenzene		95	16.870	16.870	0.0	98	1789645	NC
87	1,1,2,2-Tetrachloroethane		83	17.025	17.025	0.0	95	978332	4.94
88	N-Propylbenzene		91	17.084	17.084	0.0	96	2491172	5.05
89	1,2,3-Trichloropropane		75	17.116	17.116	0.0	89	698070	5.38

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags		
90	n-Decane		57	17.126	17.127	0.0	77	744811	5.58
91	4-Ethyltoluene		105	17.206	17.207	-0.001	85	2237468	4.99
92	2-Chlorotoluene		91	17.254	17.255	-0.001	94	1694435	4.99
93	1,3,5-Trimethylbenzene		105	17.276	17.276	0.0	94	1857598	4.99
94	Alpha Methyl Styrene		118	17.553	17.553	0.0	90	1025925	5.19
95	tert-Butylbenzene		119	17.660	17.660	0.0	91	1886002	5.00
96	1,2,4-Trimethylbenzene		105	17.729	17.730	-0.001	95	1887274	4.90
97	sec-Butylbenzene		105	17.922	17.922	0.0	99	2766537	5.02
98	4-Isopropyltoluene		119	18.076	18.076	0.0	86	2391787	5.05
99	1,3-Dichlorobenzene		146	18.162	18.162	0.0	99	1423576	5.00
100	1,4-Dichlorobenzene		146	18.274	18.274	0.0	97	1423820	5.02
101	Benzyl chloride		91	18.445	18.445	0.0	99	1598301	5.15
102	Undecane		57	18.535	18.535	0.0	87	843164	5.85
103	n-Butylbenzene		91	18.594	18.594	0.0	90	1966195	5.11
104	1,2-Dichlorobenzene		146	18.781	18.781	0.0	99	1363193	5.01
106	Dodecane		57	20.046	20.046	0.0	88	587452	4.71
107	1,2,4-Trichlorobenzene		180	21.225	21.225	0.0	93	929365	4.90
108	Hexachlorobutadiene		225	21.385	21.385	0.0	93	769824	5.05
109	Naphthalene		128	21.748	21.748	0.0	99	2223399	4.95
110	1,2,3-Trichlorobenzene		180	22.239	22.239	0.0	95	780543	4.79

Report Date: 17-Mar-2014 10:55:10

Chrom Revision: 2.2 28-Feb-2014 15:12:04

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_006.D

Injection Date: 14-Mar-2014 14:47:30

Instrument ID: CHB.i

Operator ID: pad

Lims ID: IC

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

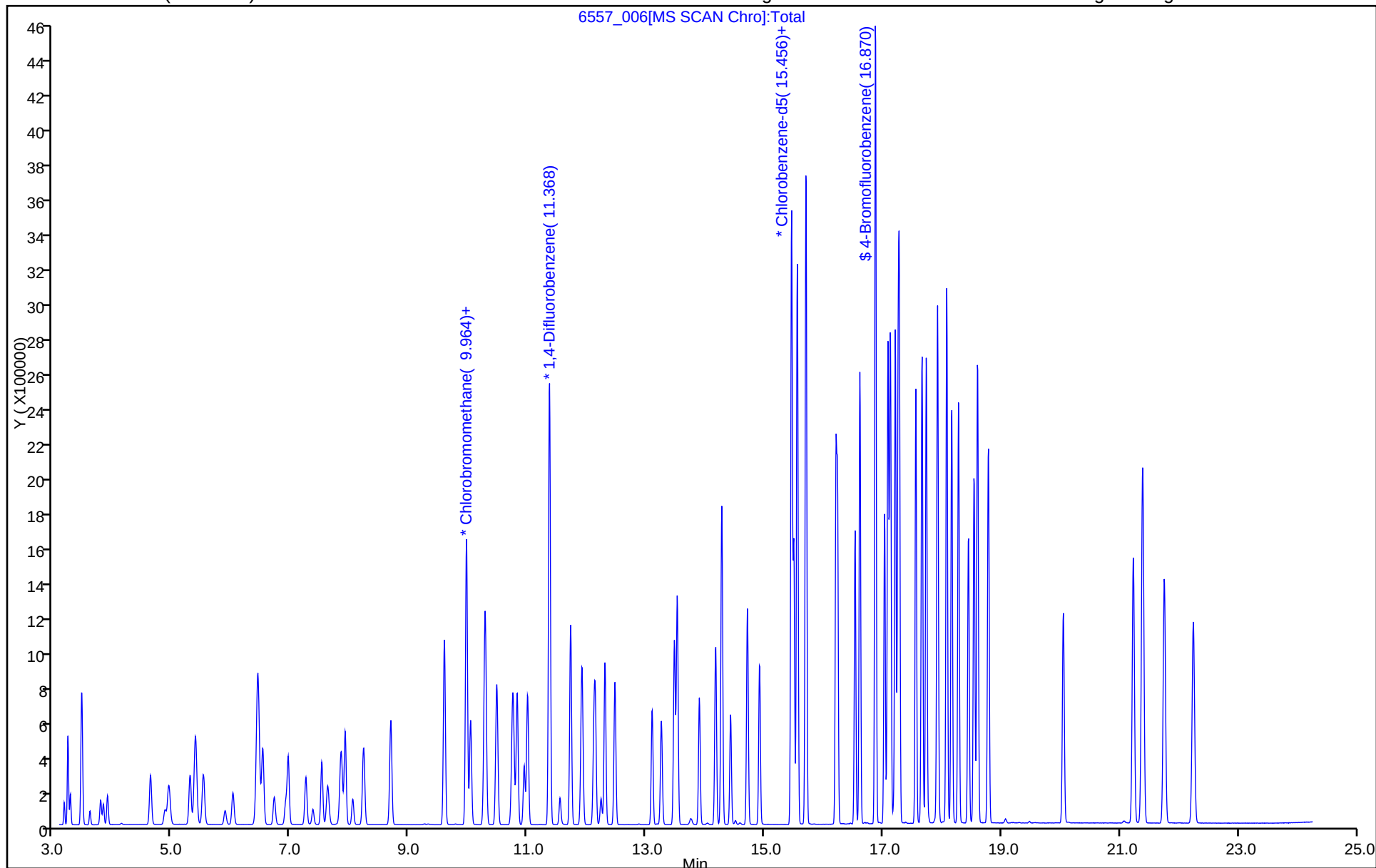
ALS Bottle#: 4

Method: TO15_LLNJ_TO3

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_007.D
 Lims ID: ICIS
 Client ID:
 Sample Type: ICIS Calib Level: 5
 Inject. Date: 14-Mar-2014 15:39:30 ALS Bottle#: 5 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 200-0006557-007
 Misc. Info.: level 5
 Operator ID: pad Instrument ID: CHB.i
 Sublist: chrom-TO15_LLNJ_TO3*sub5
 Method: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\TO15_LLNJ_TO3.m
 Limit Group: AI_TO15_ICAL
 Last Update: 17-Mar-2014 10:55:11 Calib Date: 14-Mar-2014 18:16:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal/External Standard Quant By: Initial Calibration
 Last ICal File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: daiglep

Date: 17-Mar-2014 08:54:47

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
4 Propene	41	3.170	3.170	0.0	97	111743	9.49	
5 Dichlorodifluoromethane	85	3.235	3.235	0.0	99	920185	9.33	
6 Chlorodifluoromethane	51	3.272	3.272	0.0	77	334727	9.14	
7 1,2-Dichloro-1,1,2,2-tetrafluoro	85	3.464	3.464	0.0	81	837587	8.84	
8 Chloromethane	50	3.603	3.603	0.0	99	163438	8.95	
9 Butane	43	3.784	3.784	0.0	96	270060	8.88	
10 Vinyl chloride	62	3.832	3.832	0.0	96	273563	8.78	
11 Butadiene	54	3.902	3.902	0.0	89	191019	9.14	
12 Bromomethane	94	4.627	4.627	0.0	99	543316	8.98	
13 BFB								
14 Chloroethane	64	4.873	4.873	0.0	95	224337	9.46	
15 2-Methylbutane	43	4.937	4.937	0.0	86	298374	8.55	
16 Vinyl bromide	106	5.295	5.295	0.0	97	641650	9.24	
17 Trichlorofluoromethane	101	5.385	5.385	0.0	96	1564955	9.08	
18 Pentane	43	5.524	5.524	0.0	95	559900	9.17	
19 Ethanol	45	5.887	5.887	0.0	99	241834	15.8	
21 Ethyl ether	59	6.020	6.020	0.0	88	327105	9.06	
22 Acrolein	56	6.437	6.437	0.0	38	153606	10.3	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.442	6.442	0.0	96	1343543	8.93	
24 1,1-Dichloroethene	96	6.522	6.522	0.0	86	667016	9.03	
25 Acetone	43	6.714	6.714	0.0	91	497524	9.09	
26 Isopropyl alcohol	45	6.917	6.917	0.0	98	471335	9.64	
27 Carbon disulfide	76	6.954	6.954	0.0	97	1506201	9.10	
29 3-Chloro-1-propene	41	7.253	7.253	0.0	84	429698	8.80	
30 Acetonitrile	41	7.371	7.371	0.0	99	230402	9.55	
31 Methylene Chloride	49	7.520	7.520	0.0	70	401417	8.88	
32 2-Methyl-2-propanol	59	7.621	7.621	0.0	97	868611	9.42	
33 Methyl tert-butyl ether	73	7.846	7.846	0.0	94	1648054	9.09	
34 trans-1,2-Dichloroethene	61	7.915	7.915	0.0	81	658313	8.91	
35 Acrylonitrile	53	8.043	8.043	0.0	95	298927	9.16	

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response		On-Col Amt ppb v/v		Flags
	36	Hexane	57	8.230	8.230	0.0	84	680918	8.89
*	44	Chlorobromomethane	128	9.964	9.964	0.0	67	675362	10.0
	37	1,1-Dichloroethane	63	8.684	8.684	0.0	97	873545	8.55
	38	Vinyl acetate	43	8.689	8.689	0.0	98	904975	9.84
	41	Ethyl acetate	88	9.591	9.591	0.0	89	58667	9.82
	39	cis-1,2-Dichloroethene	96	9.591	9.591	0.0	74	749642	9.15
	40	2-Butanone (MEK)	72	9.596	9.596	0.0	99	287042	8.53
	43	Tetrahydrofuran	42	9.959	9.959	0.0	69	357806	9.84
S	42	1,2-Dichloroethene, Total	61				0		18.1
	45	Chloroform	83	10.034	10.034	0.0	90	1265393	8.92
	46	Cyclohexane	84	10.274	10.274	0.0	72	902914	9.21
	47	1,1,1-Trichloroethane	97	10.285	10.285	0.0	93	1387581	9.10
	48	Carbon tetrachloride	117	10.477	10.477	0.0	97	1516732	8.86
	49	Isooctane	57	10.749	10.749	0.0	98	2256830	9.07
	50	Benzene	78	10.824	10.824	0.0	89	1932969	8.88
	51	1,2-Dichloroethane	62	10.941	10.941	0.0	98	656142	8.87
	52	n-Heptane	43	11.000	11.000	0.0	75	622895	8.71
A	53	GRO	1	11.032	4.927 - 17.137		0	232329310	0
*	54	1,4-Difluorobenzene	114	11.368	11.368	0.0	91	3332868	10.0
	56	n-Butanol	56	11.544	11.544	0.0	79	248283	9.34
	57	Trichloroethene	95	11.726	11.726	0.0	92	950435	8.76
	58	1,2-Dichloropropane	63	12.120	12.120	0.0	86	566681	8.96
	59	Methyl methacrylate	69	12.147	12.147	0.0	72	630238	9.62
	60	1,4-Dioxane	88	12.238	12.238	0.0	79	342447	9.58
	61	Dibromomethane	174	12.307	12.307	0.0	89	1066343	9.41
	62	Dichlorobromomethane	83	12.473	12.473	0.0	97	1420398	9.12
A	63	TVOC as Toluene	1	12.705	3.160 - 22.249		0	414064909	2006.8
	64	cis-1,3-Dichloropropene	75	13.102	13.102	0.0	84	1040993	9.17
	65	4-Methyl-2-pentanone (MIBK)	43	13.257	13.257	0.0	87	834973	9.51
A	66	C8 Range	1	13.459	13.426 -13.506		0	4492335	NC
	67	n-Octane	43	13.476	13.476	0.0	74	860496	8.87
	68	Toluene	92	13.524	13.524	0.0	91	1633881	9.03
A	69	Toluene Range	1	13.539	13.514 -13.564		0	5691776	NC
	70	trans-1,3-Dichloropropene	75	13.898	13.898	0.0	90	1080930	9.25
	71	1,1,2-Trichloroethane	83	14.175	14.175	0.0	92	717177	8.96
	72	Tetrachloroethene	166	14.277	14.277	0.0	95	1633959	9.16
	73	2-Hexanone	43	14.426	14.426	0.0	86	808379	9.26
	74	Chlorodibromomethane	129	14.709	14.709	0.0	97	1833432	9.39
	75	Ethylene Dibromide	107	14.917	14.917	0.0	98	1577770	9.27
*	76	Chlorobenzene-d5	117	15.456	15.456	0.0	76	2921558	10.0
	77	Chlorobenzene	112	15.493	15.493	0.0	84	2449145	9.12
	78	n-Nonane	57	15.547	15.547	0.0	64	1025407	8.82
	79	Ethylbenzene	91	15.557	15.557	0.0	68	3343755	9.20
	80	m-Xylene & p-Xylene	106	15.702	15.702	0.0	98	3000428	18.8
S	81	Xylenes, Total	106				0		28.1
	82	o-Xylene	106	16.209	16.209	0.0	95	1549988	9.35
	83	Styrene	104	16.235	16.235	0.0	98	2428442	9.60
	84	Bromoform	173	16.529	16.529	0.0	97	1916394	10.0
	85	Isopropylbenzene	105	16.609	16.609	0.0	93	4396476	9.35
\$	86	4-Bromofluorobenzene	95	16.870	16.870	0.0	97	1869556	NC
	87	1,1,2,2-Tetrachloroethane	83	17.025	17.025	0.0	93	1916061	9.17
	88	N-Propylbenzene	91	17.084	17.084	0.0	98	4881105	9.39

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags	
89	1,2,3-Trichloropropane	75	17.116	17.116	0.0	83	1317531	9.63
90	n-Decane	57	17.127	17.127	0.0	77	1363532	9.69
91	4-Ethyltoluene	105	17.207	17.207	0.0	67	4432110	9.38
92	2-Chlorotoluene	91	17.255	17.255	0.0	94	3317018	9.26
93	1,3,5-Trimethylbenzene	105	17.276	17.276	0.0	94	3642511	9.27
94	Alpha Methyl Styrene	118	17.553	17.553	0.0	90	2093076	10.0
95	tert-Butylbenzene	119	17.660	17.660	0.0	92	3724879	9.36
96	1,2,4-Trimethylbenzene	105	17.730	17.730	0.0	75	3737027	9.20
97	sec-Butylbenzene	105	17.922	17.922	0.0	99	5412056	9.31
98	4-Isopropyltoluene	119	18.076	18.076	0.0	84	4735407	9.48
99	1,3-Dichlorobenzene	146	18.162	18.162	0.0	98	2868077	9.54
100	1,4-Dichlorobenzene	146	18.274	18.274	0.0	97	2872688	9.60
101	Benzyl chloride	91	18.445	18.445	0.0	97	3284040	10.0
102	Undecane	57	18.535	18.535	0.0	86	1497753	9.85
103	n-Butylbenzene	91	18.594	18.594	0.0	89	3847571	9.47
104	1,2-Dichlorobenzene	146	18.781	18.781	0.0	99	2735633	9.53
106	Dodecane	57	20.046	20.046	0.0	87	1315124	10.0
107	1,2,4-Trichlorobenzene	180	21.225	21.225	0.0	93	1935193	9.67
108	Hexachlorobutadiene	225	21.385	21.385	0.0	91	1493683	9.30
109	Naphthalene	128	21.748	21.748	0.0	99	4638967	9.79
110	1,2,3-Trichlorobenzene	180	22.239	22.239	0.0	95	1800836	10.5

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_007.D

Injection Date: 14-Mar-2014 15:39:30

Instrument ID: CHB.i

Operator ID: pad

Lims ID: ICIS

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

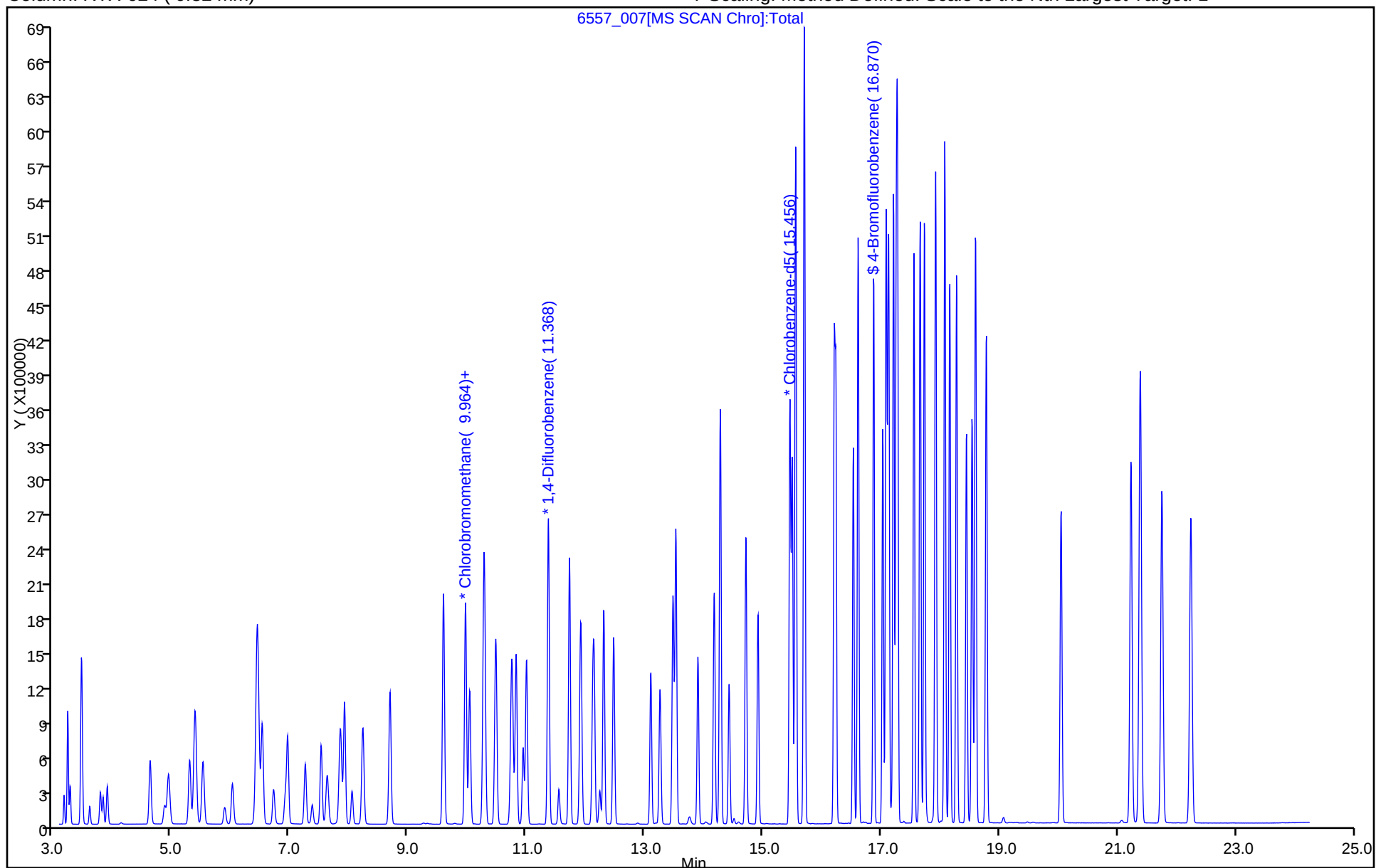
ALS Bottle#: 5

Method: TO15_LLNJ_TO3

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_008.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 14-Mar-2014 16:31:30 ALS Bottle#: 6 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 200-0006557-008
 Misc. Info.: level 6
 Operator ID: pad Instrument ID: CHB.i
 Sublist: chrom-TO15_LLNJ_TO3*sub5
 Method: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\TO15_LLNJ_TO3.m
 Limit Group: AI_TO15_ICAL
 Last Update: 17-Mar-2014 10:55:14 Calib Date: 14-Mar-2014 18:16:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal/External Standard Quant By: Initial Calibration
 Last ICal File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
4 Propene	41	3.160	3.170	-0.010	97	68669	5.59	
5 Dichlorodifluoromethane	85	3.229	3.235	-0.006	99	1465088	14.2	
6 Chlorodifluoromethane	51	3.266	3.272	-0.006	94	549505	14.4	
7 1,2-Dichloro-1,1,2,2-tetrafluoro	85	3.459	3.464	-0.005	90	1352587	13.7	
8 Chloromethane	50	3.597	3.603	-0.006	99	270601	14.2	
9 Butane	43	3.779	3.784	-0.005	96	452265	14.2	
10 Vinyl chloride	62	3.827	3.832	-0.005	96	440686	13.5	
11 Butadiene	54	3.896	3.902	-0.006	90	304353	13.9	
12 Bromomethane	94	4.622	4.627	-0.005	99	796315	12.6	
13 BFB								
14 Chloroethane	64	4.867	4.873	-0.006	98	314310	12.7	
15 2-Methylbutane	43	4.937	4.937	0.0	86	420737	11.5	
16 Vinyl bromide	106	5.289	5.295	-0.006	98	908458	12.5	
17 Trichlorofluoromethane	101	5.380	5.385	-0.005	97	2309499	12.8	
18 Pentane	43	5.519	5.524	-0.005	94	865938	13.6	
19 Ethanol	45	5.887	5.887	0.0	99	299678	18.8	
21 Ethyl ether	59	6.015	6.020	-0.005	88	536655	14.2	
22 Acrolein	56	6.431	6.437	-0.006	95	226399	14.6	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.437	6.442	-0.005	96	2232253	14.2	
24 1,1-Dichloroethene	96	6.522	6.522	0.0	85	1115004	14.5	
25 Acetone	43	6.714	6.714	0.0	91	856670	15.0	
26 Isopropyl alcohol	45	6.917	6.917	0.0	98	819186	16.0	
27 Carbon disulfide	76	6.949	6.954	-0.005	97	2761642	16.0	
29 3-Chloro-1-propene	41	7.248	7.253	-0.005	82	687372	13.5	
30 Acetonitrile	41	7.370	7.371	-0.001	99	385574	15.3	
31 Methylene Chloride	49	7.520	7.520	0.0	73	644656	13.7	
32 2-Methyl-2-propanol	59	7.621	7.621	0.0	98	1504559	15.6	
33 Methyl tert-butyl ether	73	7.845	7.846	-0.001	94	2748228	14.5	
34 trans-1,2-Dichloroethene	61	7.915	7.915	0.0	81	1078469	14.0	
35 Acrylonitrile	53	8.043	8.043	0.0	96	495022	14.5	
36 Hexane	57	8.224	8.230	-0.006	83	1115992	13.9	

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags		
* 44	Chlorobromomethane		128	9.964	9.964	0.0	66	705392	10.0
37	1,1-Dichloroethane		63	8.683	8.684	-0.001	99	1418035	13.3
38	Vinyl acetate		43	8.689	8.689	0.0	98	1464152	15.2
41	Ethyl acetate		88	9.591	9.591	0.0	93	96943	15.5
39	cis-1,2-Dichloroethene		96	9.591	9.591	0.0	93	1221577	14.3
40	2-Butanone (MEK)		72	9.596	9.596	0.0	99	467560	13.3
43	Tetrahydrofuran		42	9.959	9.959	0.0	78	580459	15.4
S 42	1,2-Dichloroethene, Total		61				0		28.3
45	Chloroform		83	10.034	10.034	0.0	98	2086637	14.1
46	Cyclohexane		84	10.274	10.274	0.0	75	1469351	14.4
47	1,1,1-Trichloroethane		97	10.284	10.285	-0.001	95	2299185	14.5
48	Carbon tetrachloride		117	10.477	10.477	0.0	97	2544730	14.3
49	Isooctane		57	10.749	10.749	0.0	98	3674073	14.2
50	Benzene		78	10.818	10.824	-0.006	91	3184914	14.1
51	1,2-Dichloroethane		62	10.941	10.941	0.0	98	1086275	14.1
52	n-Heptane		43	10.994	11.000	-0.006	76	1000301	13.5
A 53	GRO		1	11.032	4.927 - 17.137		0	354082227	0
* 54	1,4-Difluorobenzene		114	11.368	11.368	0.0	91	3463368	10.0
56	n-Butanol		56	11.544	11.544	0.0	79	467587	16.9
57	Trichloroethene		95	11.725	11.726	-0.001	91	1568848	13.9
58	1,2-Dichloropropane		63	12.120	12.120	0.0	92	913733	13.9
59	Methyl methacrylate		69	12.142	12.147	-0.005	80	1033432	15.2
60	1,4-Dioxane		88	12.238	12.238	0.0	82	608623	16.4
61	Dibromomethane		174	12.307	12.307	0.0	90	1745664	14.8
62	Dichlorobromomethane		83	12.473	12.473	0.0	97	2349823	14.5
A 63	TVOC as Toluene		1	12.705	3.160 - 22.249		0	663758643	3095.7
64	cis-1,3-Dichloropropene		75	13.102	13.102	0.0	84	1740534	14.8
65	4-Methyl-2-pentanone (MIBK)		43	13.257	13.257	0.0	86	1354524	14.8
A 66	C8 Range		1	13.459	13.426 -13.506		0	7246285	NC
67	n-Octane		43	13.476	13.476	0.0	74	1357409	13.5
68	Toluene		92	13.524	13.524	0.0	91	2674219	14.5
A 69	Toluene Range		1	13.539	13.514 -13.564		0	9320496	NC
70	trans-1,3-Dichloropropene		75	13.898	13.898	0.0	90	1798875	14.8
71	1,1,2-Trichloroethane		83	14.175	14.175	0.0	92	1176628	14.4
72	Tetrachloroethene		166	14.276	14.277	-0.001	96	2616855	14.4
73	2-Hexanone		43	14.426	14.426	0.0	85	1316006	14.8
74	Chlorodibromomethane		129	14.709	14.709	0.0	96	3017034	15.1
75	Ethylene Dibromide		107	14.917	14.917	0.0	98	2592310	14.9
* 76	Chlorobenzene-d5		117	15.456	15.456	0.0	78	2985737	10.0
77	Chlorobenzene		112	15.493	15.493	0.0	91	4023470	14.7
78	n-Nonane		57	15.547	15.547	0.0	78	1561478	13.1
79	Ethylbenzene		91	15.557	15.557	0.0	96	5191461	14.0
80	m-Xylene & p-Xylene		106	15.701	15.702	-0.001	98	4644341	28.4
S 81	Xylenes, Total		106				0		43.1
82	o-Xylene		106	16.208	16.209	-0.001	95	2492466	14.7
83	Styrene		104	16.235	16.235	0.0	98	3893795	15.1
84	Bromoform		173	16.529	16.529	0.0	97	2997727	15.3
85	Isopropylbenzene		105	16.609	16.609	0.0	93	7067549	14.7
\$ 86	4-Bromofluorobenzene		95	16.870	16.870	0.0	98	1901545	NC
87	1,1,2,2-Tetrachloroethane		83	17.025	17.025	0.0	95	3050605	14.3
88	N-Propylbenzene		91	17.084	17.084	0.0	95	7684271	14.5
89	1,2,3-Trichloropropane		75	17.116	17.116	0.0	90	2038241	14.6

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response		On-Col Amt ppb v/v	Flags	
90	n-Decane		57	17.132	17.127	0.006	76	2062173	14.3
91	4-Ethyltoluene		105	17.206	17.207	-0.001	86	7107273	14.7
92	2-Chlorotoluene		91	17.254	17.255	-0.001	93	5246023	14.3
93	1,3,5-Trimethylbenzene		105	17.276	17.276	0.0	94	5725056	14.3
94	Alpha Methyl Styrene		118	17.553	17.553	0.0	90	3326924	15.6
95	tert-Butylbenzene		119	17.660	17.660	0.0	91	5995016	14.7
96	1,2,4-Trimethylbenzene		105	17.729	17.730	-0.001	95	6036071	14.5
97	sec-Butylbenzene		105	17.922	17.922	0.0	98	8626253	14.5
98	4-Isopropyltoluene		119	18.076	18.076	0.0	88	7620158	14.9
99	1,3-Dichlorobenzene		146	18.162	18.162	0.0	98	4629709	15.1
100	1,4-Dichlorobenzene		146	18.279	18.274	0.005	96	4655273	15.2
101	Benzyl chloride		91	18.445	18.445	0.0	99	5065652	15.2
102	Undecane		57	18.535	18.535	0.0	85	2439571	15.7
103	n-Butylbenzene		91	18.599	18.594	0.005	96	6199465	14.9
104	1,2-Dichlorobenzene		146	18.781	18.781	0.0	99	4456201	15.2
106	Dodecane		57	20.046	20.046	0.0	86	2318147	17.2
107	1,2,4-Trichlorobenzene		180	21.230	21.225	0.005	93	3362637	16.4
108	Hexachlorobutadiene		225	21.385	21.385	0.0	89	2308722	14.1
109	Naphthalene		128	21.753	21.748	0.005	99	8120457	16.8
110	1,2,3-Trichlorobenzene		180	22.239	22.239	0.0	95	3203028	18.2

Report Date: 17-Mar-2014 10:55:14

Chrom Revision: 2.2 28-Feb-2014 15:12:04

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_008.D

Injection Date: 14-Mar-2014 16:31:30

Instrument ID: CHB.i

Operator ID: pad

Lims ID: IC

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

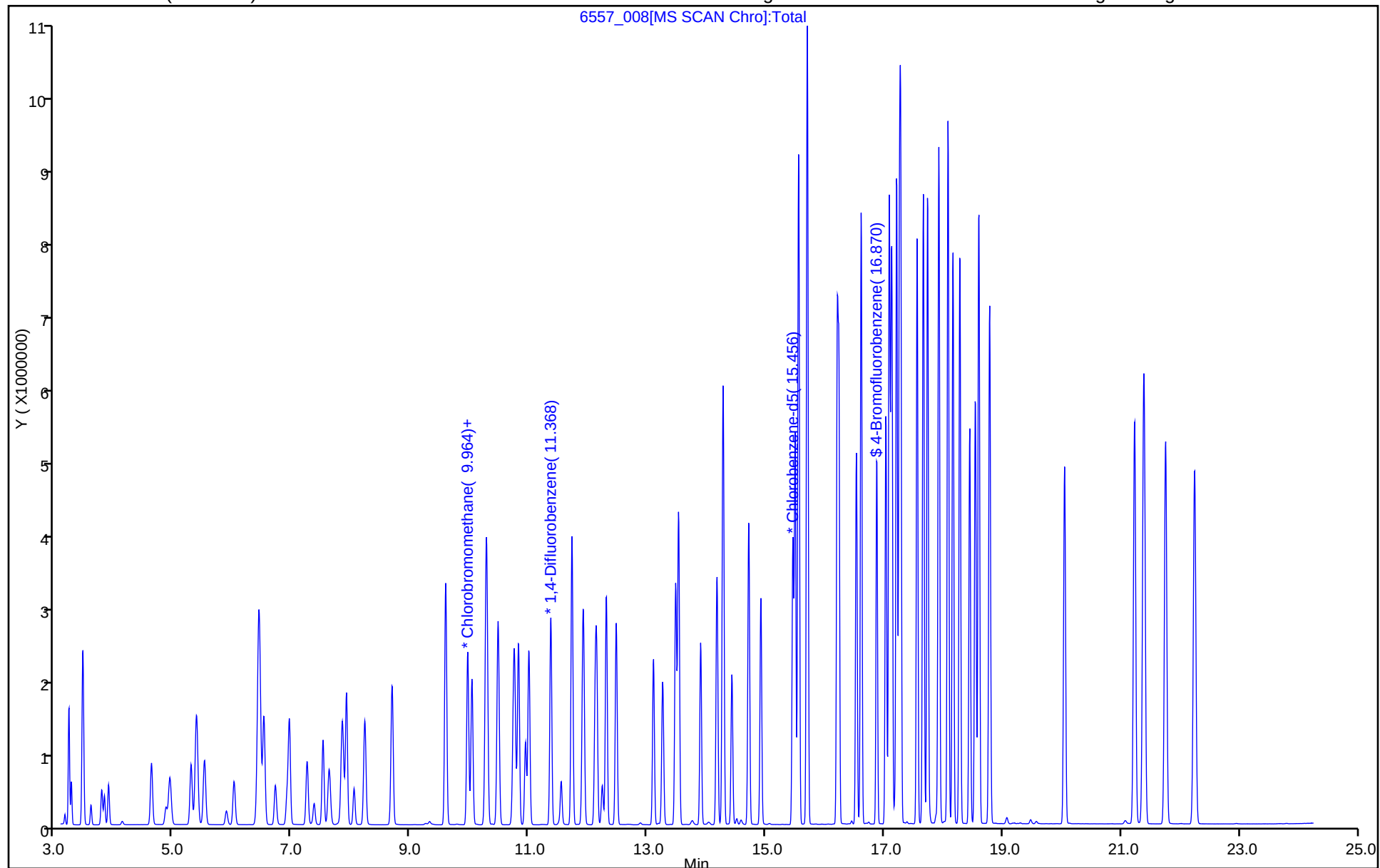
ALS Bottle#: 6

Method: TO15_LLNJ_TO3

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_009.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 14-Mar-2014 17:24:30 ALS Bottle#: 7 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 200-0006557-009
 Misc. Info.: level 7
 Operator ID: pad Instrument ID: CHB.i
 Sublist: chrom-TO15_LLNJ_TO3*sub5
 Method: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\TO15_LLNJ_TO3.m
 Limit Group: AI_TO15_ICAL
 Last Update: 17-Mar-2014 10:55:15 Calib Date: 14-Mar-2014 18:16:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal/External Standard Quant By: Initial Calibration
 Last ICal File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
4 Propene	41	3.171	3.170	0.001	97	255405	21.1	
5 Dichlorodifluoromethane	85	3.229	3.235	-0.006	99	1924684	19.0	
6 Chlorodifluoromethane	51	3.272	3.272	0.0	96	744372	19.8	
7 1,2-Dichloro-1,1,2,2-tetrafluoro	85	3.464	3.464	0.0	82	1780420	18.3	
8 Chloromethane	50	3.603	3.603	0.0	99	370938	19.8	
9 Butane	43	3.784	3.784	0.0	95	609510	19.5	
10 Vinyl chloride	62	3.832	3.832	0.0	96	607381	19.0	
11 Butadiene	54	3.902	3.902	0.0	89	423287	19.7	
12 Bromomethane	94	4.627	4.627	0.0	99	1154441	18.6	
13 BFB								
14 Chloroethane	64	4.873	4.873	0.0	96	473613	19.4	
15 2-Methylbutane	43	4.937	4.937	0.0	86	625662	17.4	
16 Vinyl bromide	106	5.295	5.295	0.0	99	1348796	18.9	
17 Trichlorofluoromethane	101	5.385	5.385	0.0	96	3318292	18.7	
18 Pentane	43	5.519	5.524	-0.005	95	1182737	18.9	
19 Ethanol	45	5.892	5.887	0.005	99	563864	35.9	
21 Ethyl ether	59	6.020	6.020	0.0	87	713148	19.2	
22 Acrolein	56	6.431	6.437	-0.006	37	307411	20.1	
23 1,1,2-Trichloro-1,2,2-trifluoro	101	6.442	6.442	0.0	95	2952854	19.1	
24 1,1-Dichloroethene	96	6.522	6.522	0.0	84	1490003	19.6	
25 Acetone	43	6.714	6.714	0.0	91	1313841	23.4	
26 Isopropyl alcohol	45	6.922	6.917	0.005	98	1026923	20.4	
27 Carbon disulfide	76	6.954	6.954	0.0	97	3281323	19.3	
29 3-Chloro-1-propene	41	7.253	7.253	0.0	82	911683	18.2	
30 Acetonitrile	41	7.371	7.371	0.0	99	509211	20.5	
31 Methylene Chloride	49	7.520	7.520	0.0	66	847304	18.2	
32 2-Methyl-2-propanol	59	7.632	7.621	0.011	96	2035444	21.5	
33 Methyl tert-butyl ether	73	7.846	7.846	0.0	93	3699655	19.9	
34 trans-1,2-Dichloroethene	61	7.915	7.915	0.0	79	1429875	18.8	
35 Acrylonitrile	53	8.048	8.043	0.005	96	667510	19.9	
36 Hexane	57	8.225	8.230	-0.005	83	1461195	18.6	

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags	
37	1,1-Dichloroethane	63	8.684	8.684	0.0	99	1868454	17.8
38	Vinyl acetate	43	8.694	8.689	0.005	98	1906704	20.2
41	Ethyl acetate	88	9.596	9.591	0.005	89	127711	20.8
39	cis-1,2-Dichloroethene	96	9.591	9.591	0.0	77	1583080	18.8
40	2-Butanone (MEK)	72	9.596	9.596	0.0	99	617414	17.9
43	Tetrahydrofuran	42	9.959	9.959	0.0	77	759097	20.1
* 44	Chlorobromomethane	128	9.970	9.964	0.006	49	693879	10.0
S 42	1,2-Dichloroethene, Total	61				0		37.6
45	Chloroform	83	10.034	10.034	0.0	90	2786507	19.1
46	Cyclohexane	84	10.274	10.274	0.0	71	1923315	18.9
47	1,1,1-Trichloroethane	97	10.285	10.285	0.0	93	3032003	19.2
48	Carbon tetrachloride	117	10.477	10.477	0.0	97	3397109	19.1
49	Isooctane	57	10.749	10.749	0.0	98	4780267	18.5
50	Benzene	78	10.824	10.824	0.0	83	4236294	18.8
51	1,2-Dichloroethane	62	10.941	10.941	0.0	98	1464050	19.1
52	n-Heptane	43	11.000	11.000	0.0	75	1294563	17.5
A 53	GRO	1	11.032	4.927 - 17.137		0	463859596	0
* 54	1,4-Difluorobenzene	114	11.368	11.368	0.0	90	3455795	10.0
56	n-Butanol	56	11.549	11.544	0.005	79	565060	20.5
57	Trichloroethene	95	11.726	11.726	0.0	91	2077327	18.5
58	1,2-Dichloropropane	63	12.121	12.120	0.001	86	1194267	18.2
59	Methyl methacrylate	69	12.147	12.147	0.0	73	1357006	20.0
60	1,4-Dioxane	88	12.238	12.238	0.0	79	777877	21.0
61	Dibromomethane	174	12.307	12.307	0.0	90	2250293	19.2
62	Dichlorobromomethane	83	12.473	12.473	0.0	97	3129985	19.4
A 63	TVOC as Toluene	1	12.705	3.160 - 22.249		0	858362003	4012.1
64	cis-1,3-Dichloropropene	75	13.103	13.102	0.0	84	2329911	19.8
65	4-Methyl-2-pentanone (MIBK)	43	13.257	13.257	0.0	86	1773942	19.5
A 66	C8 Range	1	13.459	13.426 -13.506		0	9248180	NC
67	n-Octane	43	13.476	13.476	0.0	74	1740122	17.3
68	Toluene	92	13.524	13.524	0.0	92	3499416	19.0
A 69	Toluene Range	1	13.539	13.514 -13.564		0	12371923	NC
70	trans-1,3-Dichloropropene	75	13.898	13.898	0.0	90	2436771	20.1
71	1,1,2-Trichloroethane	83	14.175	14.175	0.0	92	1554181	19.0
72	Tetrachloroethene	166	14.277	14.277	0.0	95	3314444	18.2
73	2-Hexanone	43	14.426	14.426	0.0	85	1737767	19.5
74	Chlorodibromomethane	129	14.714	14.709	0.005	96	3932354	19.8
75	Ethylene Dibromide	107	14.917	14.917	0.0	98	3398396	19.6
* 76	Chlorobenzene-d5	117	15.456	15.456	0.0	51	2979300	10.0
77	Chlorobenzene	112	15.493	15.493	0.0	84	5267778	19.2
78	n-Nonane	57	15.547	15.547	0.0	65	1959601	16.5
79	Ethylbenzene	91	15.557	15.557	0.0	68	6495489	17.5
80	m-Xylene & p-Xylene	106	15.702	15.702	0.0	98	5786128	35.5
S 81	Xylenes, Total	106				0		54.2
82	o-Xylene	106	16.209	16.209	0.0	95	3167400	18.7
83	Styrene	104	16.235	16.235	0.0	97	4953505	19.2
84	Bromoform	173	16.529	16.529	0.0	96	3697642	18.9
85	Isopropylbenzene	105	16.609	16.609	0.0	93	9064997	18.9
\$ 86	4-Bromofluorobenzene	95	16.876	16.870	0.006	97	1921376	NC
87	1,1,2,2-Tetrachloroethane	83	17.030	17.025	0.005	92	3947404	18.5
88	N-Propylbenzene	91	17.084	17.084	0.0	95	9745592	18.4
89	1,2,3-Trichloropropane	75	17.116	17.116	0.0	83	2588942	18.6

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response		On-Col Amt ppb v/v	Flags	
90	n-Decane		57	17.132	17.127	0.006	76	2490757	17.4
91	4-Ethyltoluene		105	17.212	17.207	0.005	67	9046481	18.8
92	2-Chlorotoluene		91	17.255	17.255	0.0	92	6698226	18.3
93	1,3,5-Trimethylbenzene		105	17.281	17.276	0.005	86	7183369	17.9
94	Alpha Methyl Styrene		118	17.559	17.553	0.006	89	4047851	19.0
95	tert-Butylbenzene		119	17.660	17.660	0.0	94	7624038	18.8
96	1,2,4-Trimethylbenzene		105	17.735	17.730	0.005	83	7580704	18.3
97	sec-Butylbenzene		105	17.922	17.922	0.0	98	10661494	18.0
98	4-Isopropyltoluene		119	18.077	18.076	0.0	83	9064508	17.8
99	1,3-Dichlorobenzene		146	18.162	18.162	0.0	97	5773886	18.8
100	1,4-Dichlorobenzene		146	18.279	18.274	0.005	96	5731284	18.8
101	Benzyl chloride		91	18.445	18.445	0.0	98	6751126	20.2
102	Undecane		57	18.541	18.535	0.006	85	3015477	19.5
103	n-Butylbenzene		91	18.600	18.594	0.006	89	7247969	17.5
104	1,2-Dichlorobenzene		146	18.781	18.781	0.0	98	5396501	18.4
106	Dodecane		57	20.046	20.046	0.0	86	2863895	21.3
107	1,2,4-Trichlorobenzene		180	21.231	21.225	0.006	94	4541232	22.3
108	Hexachlorobutadiene		225	21.385	21.385	0.0	87	2907662	17.7
109	Naphthalene		128	21.754	21.748	0.006	99	10653795	22.0
110	1,2,3-Trichlorobenzene		180	22.245	22.239	0.006	96	4293018	24.5

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_009.D

Injection Date: 14-Mar-2014 17:24:30

Instrument ID: CHB.i

Operator ID: pad

Lims ID: IC

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

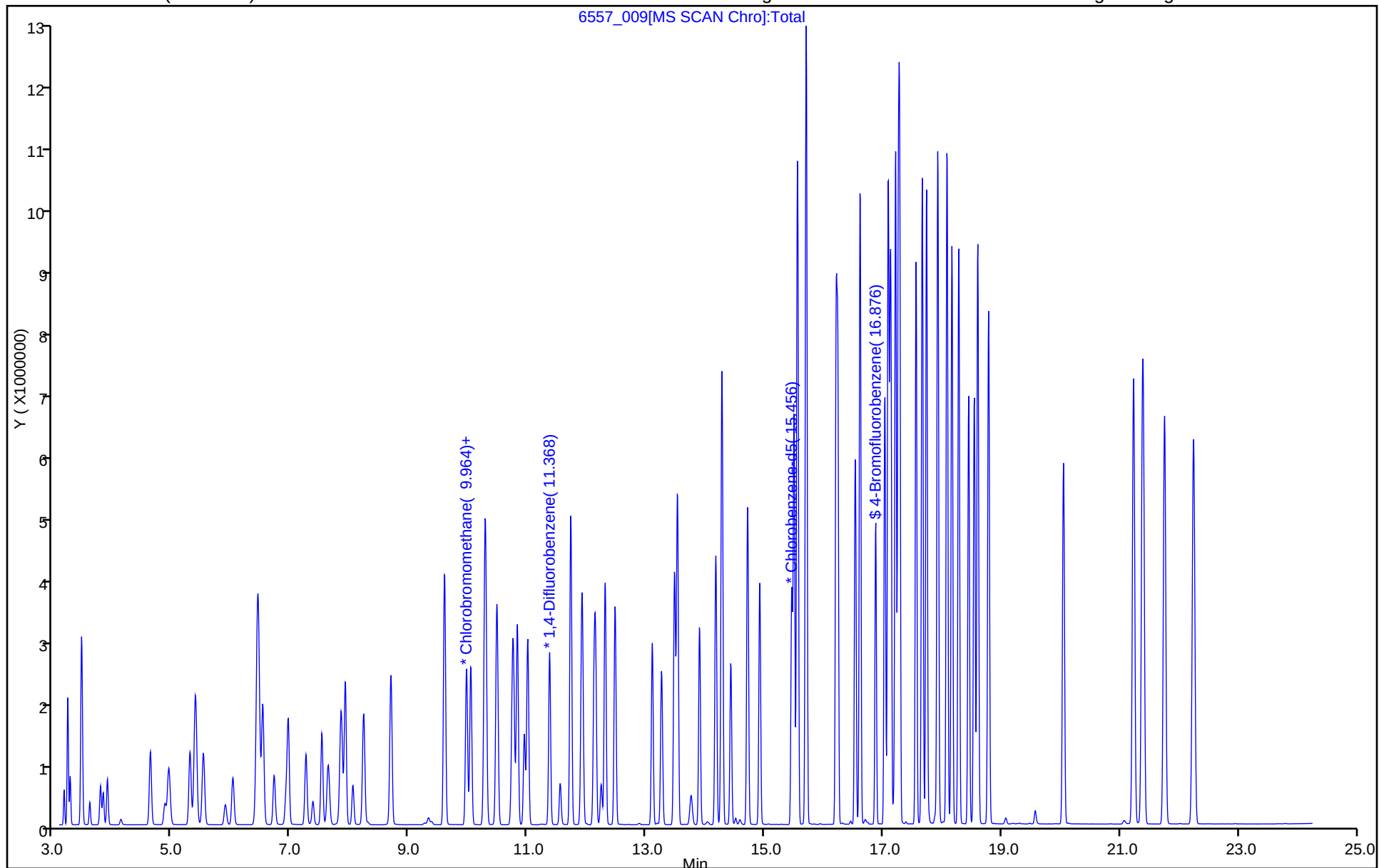
ALS Bottle#: 7

Method: TO15_LLNJ_TO3

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 14-Mar-2014 18:16:30 ALS Bottle#: 8 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 200-0006557-010
 Misc. Info.: level 8
 Operator ID: pad Instrument ID: CHB.i
 Sublist: chrom-TO15_LLNJ_TO3*sub5
 Method: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\TO15_LLNJ_TO3.m
 Limit Group: AI_TO15_ICAL
 Last Update: 17-Mar-2014 10:55:17 Calib Date: 14-Mar-2014 18:16:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal/External Standard Quant By: Initial Calibration
 Last ICal File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
4 Propene	41	3.176	3.170	0.006	97	494024	40.4	
5 Dichlorodifluoromethane	85	3.234	3.235	-0.001	99	3540616	34.6	
6 Chlorodifluoromethane	51	3.277	3.272	0.005	71	1432858	37.7	
7 1,2-Dichloro-1,1,2,2-tetrafluoro	85	3.469	3.464	0.005	91	3286009	33.4	
8 Chloromethane	50	3.608	3.603	0.005	99	728978	38.4	
9 Butane	43	3.789	3.784	0.005	95	1184752	37.5	
10 Vinyl chloride	62	3.838	3.832	0.006	96	1184971	36.6	
11 Butadiene	54	3.907	3.902	0.005	89	825788	38.1	
12 Bromomethane	94	4.633	4.627	0.006	96	2257298	35.9	
13 BFB								
14 Chloroethane	64	4.878	4.873	0.005	98	929992	37.8	
15 2-Methylbutane	43	4.948	4.937	0.011	85	1207411	33.3	
16 Vinyl bromide	106	5.305	5.295	0.010	100	2637985	36.6	
17 Trichlorofluoromethane	101	5.396	5.385	0.011	97	6401573	35.8	
18 Pentane	43	5.529	5.524	0.005	94	2209554	34.9	
19 Ethanol	45	5.908	5.887	0.021	99	1263924	79.7	
21 Ethyl ether	59	6.026	6.020	0.006	82	1358409	36.2	
22 Acrolein	56	6.442	6.437	0.005	36	530924	34.3	
23 1,1,2-Trichloro-1,2,2-trifluoroe	101	6.447	6.442	0.005	96	5463001	35.0	
24 1,1-Dichloroethene	96	6.533	6.522	0.011	85	2857246	37.3	
25 Acetone	43	6.725	6.714	0.011	91	2074276	36.5	
26 Isopropyl alcohol	45	6.933	6.917	0.016	87	1765711	34.8	
27 Carbon disulfide	76	6.960	6.954	0.006	97	6138624	35.7	
29 3-Chloro-1-propene	41	7.258	7.253	0.005	80	1705527	33.6	
30 Acetonitrile	41	7.376	7.371	0.005	99	933071	37.2	
31 Methylene Chloride	49	7.525	7.520	0.005	69	1586209	33.8	
32 2-Methyl-2-propanol	59	7.648	7.621	0.027	96	3585393	37.4	
33 Methyl tert-butyl ether	73	7.856	7.846	0.010	93	7127075	37.8	
34 trans-1,2-Dichloroethene	61	7.926	7.915	0.011	78	2703787	35.2	
35 Acrylonitrile	53	8.054	8.043	0.011	96	1272502	37.5	
36 Hexane	57	8.235	8.230	0.005	83	2711842	34.1	

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags	
37	1,1-Dichloroethane	63	8.689	8.684	0.005	99	3464607	32.6
38	Vinyl acetate	43	8.699	8.689	0.010	98	3447819	36.1
41	Ethyl acetate	88	9.601	9.591	0.010	88	226393	36.5
39	cis-1,2-Dichloroethene	96	9.596	9.591	0.005	80	2802676	33.0
40	2-Butanone (MEK)	72	9.607	9.596	0.011	99	1065698	30.5
43	Tetrahydrofuran	42	9.964	9.959	0.005	73	1410138	36.1
* 44	Chlorobromomethane	128	9.975	9.964	0.011	55	701185	10.0
S 42	1,2-Dichloroethene, Total	61				0		68.2
45	Chloroform	83	10.039	10.034	0.005	98	5309881	36.1
46	Cyclohexane	84	10.279	10.274	0.005	69	3438058	32.7
47	1,1,1-Trichloroethane	97	10.290	10.285	0.005	93	5601171	34.2
48	Carbon tetrachloride	117	10.482	10.477	0.005	96	6507101	35.4
49	Isooctane	57	10.754	10.749	0.005	97	8692904	32.6
50	Benzene	78	10.829	10.824	0.005	85	7941325	34.0
51	1,2-Dichloroethane	62	10.946	10.941	0.005	98	2860834	36.0
52	n-Heptane	43	11.005	11.000	0.005	75	2319165	30.2
A 53	GRO	1	11.032	4.927 - 17.137		0	797280296	0
* 54	1,4-Difluorobenzene	114	11.373	11.368	0.005	90	3578300	10.0
56	n-Butanol	56	11.555	11.544	0.011	76	1057428	37.0
57	Trichloroethene	95	11.731	11.726	0.005	92	3845972	33.0
58	1,2-Dichloropropane	63	12.126	12.120	0.006	86	2154445	31.7
59	Methyl methacrylate	69	12.152	12.147	0.005	71	2492241	35.4
60	1,4-Dioxane	88	12.248	12.238	0.010	74	1377573	35.9
61	Dibromomethane	174	12.313	12.307	0.006	91	3855401	31.7
62	Dichlorobromomethane	83	12.478	12.473	0.005	97	5874293	35.1
A 63	TVOC as Toluene	1	12.705	3.160 - 22.249		0	1470746957	6639.0
64	cis-1,3-Dichloropropene	75	13.108	13.102	0.006	84	4438475	36.4
65	4-Methyl-2-pentanone (MIBK)	43	13.263	13.257	0.005	85	3256051	34.5
A 66	C8 Range	1	13.459	13.426 - 13.506		0	16843391	NC
67	n-Octane	43	13.481	13.476	0.005	73	3029042	29.1
68	Toluene	92	13.529	13.524	0.005	92	6361095	33.6
A 69	Toluene Range	1	13.539	13.514 - 13.564		0	22137957	NC
70	trans-1,3-Dichloropropene	75	13.903	13.898	0.005	90	4648506	37.0
71	1,1,2-Trichloroethane	83	14.180	14.175	0.005	92	2845144	33.9
72	Tetrachloroethene	166	14.282	14.277	0.005	94	5532199	29.6
73	2-Hexanone	43	14.431	14.426	0.005	85	3170989	34.7
74	Chlorodibromomethane	129	14.714	14.709	0.005	95	6932737	33.9
75	Ethylene Dibromide	107	14.922	14.917	0.005	98	6070004	34.0
* 76	Chlorobenzene-d5	117	15.461	15.456	0.005	44	3060897	10.0
77	Chlorobenzene	112	15.499	15.493	0.006	85	9431276	33.5
78	n-Nonane	57	15.552	15.547	0.005	65	3209594	26.3
79	Ethylbenzene	91	15.563	15.557	0.006	68	10312987	27.1
80	m-Xylene & p-Xylene	106	15.707	15.702	0.005	98	9266378	55.3
S 81	Xylenes, Total	106				0		86.1
82	o-Xylene	106	16.208	16.209	-0.001	95	5339938	30.8
83	Styrene	104	16.240	16.235	0.005	97	8389157	31.6
84	Bromoform	173	16.534	16.529	0.005	93	5656651	28.2
85	Isopropylbenzene	105	16.614	16.609	0.005	93	15285968	31.0
\$ 86	4-Bromofluorobenzene	95	16.876	16.870	0.006	95	2004344	NC
87	1,1,2,2-Tetrachloroethane	83	17.030	17.025	0.005	92	6596922	30.1
88	N-Propylbenzene	91	17.089	17.084	0.005	94	15283787	28.0
89	1,2,3-Trichloropropane	75	17.116	17.116	0.0	82	4039768	28.2

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response		On-Col Amt ppb v/v	Flags	
90	n-Decane		57	17.137	17.127	0.011	77	3988912	27.0
91	4-Ethyltoluene		105	17.212	17.207	0.005	66	14587801	29.5
92	2-Chlorotoluene		91	17.260	17.255	0.005	94	10693128	28.5
93	1,3,5-Trimethylbenzene		105	17.281	17.276	0.005	93	11277858	27.4
94	Alpha Methyl Styrene		118	17.559	17.553	0.006	89	7228062	33.1
95	tert-Butylbenzene		119	17.665	17.660	0.005	90	12493741	30.0
96	1,2,4-Trimethylbenzene		105	17.740	17.730	0.010	71	12699315	29.8
97	sec-Butylbenzene		105	17.927	17.922	0.005	98	17513133	28.8
98	4-Isopropyltoluene		119	18.082	18.076	0.006	82	15603740	29.8
99	1,3-Dichlorobenzene		146	18.167	18.162	0.005	96	9392266	29.8
100	1,4-Dichlorobenzene		146	18.279	18.274	0.005	95	9464364	30.2
101	Benzyl chloride		91	18.450	18.445	0.005	98	12308288	35.9
102	Undecane		57	18.541	18.535	0.006	85	5248772	33.0
103	n-Butylbenzene		91	18.599	18.594	0.005	89	13108720	30.8
104	1,2-Dichlorobenzene		146	18.786	18.781	0.005	97	9303927	30.9
106	Dodecane		57	20.046	20.046	0.0	85	4647868	33.7
107	1,2,4-Trichlorobenzene		180	21.231	21.225	0.005	91	7814515	37.3
108	Hexachlorobutadiene		225	21.391	21.385	0.006	80	4206355	25.0
109	Naphthalene		128	21.754	21.748	0.006	99	19916995	40.1
110	1,2,3-Trichlorobenzene		180	22.245	22.239	0.006	96	7538008	41.9

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D

Injection Date: 14-Mar-2014 18:16:30

Instrument ID: CHB.i

Operator ID: pad

Lims ID: IC

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

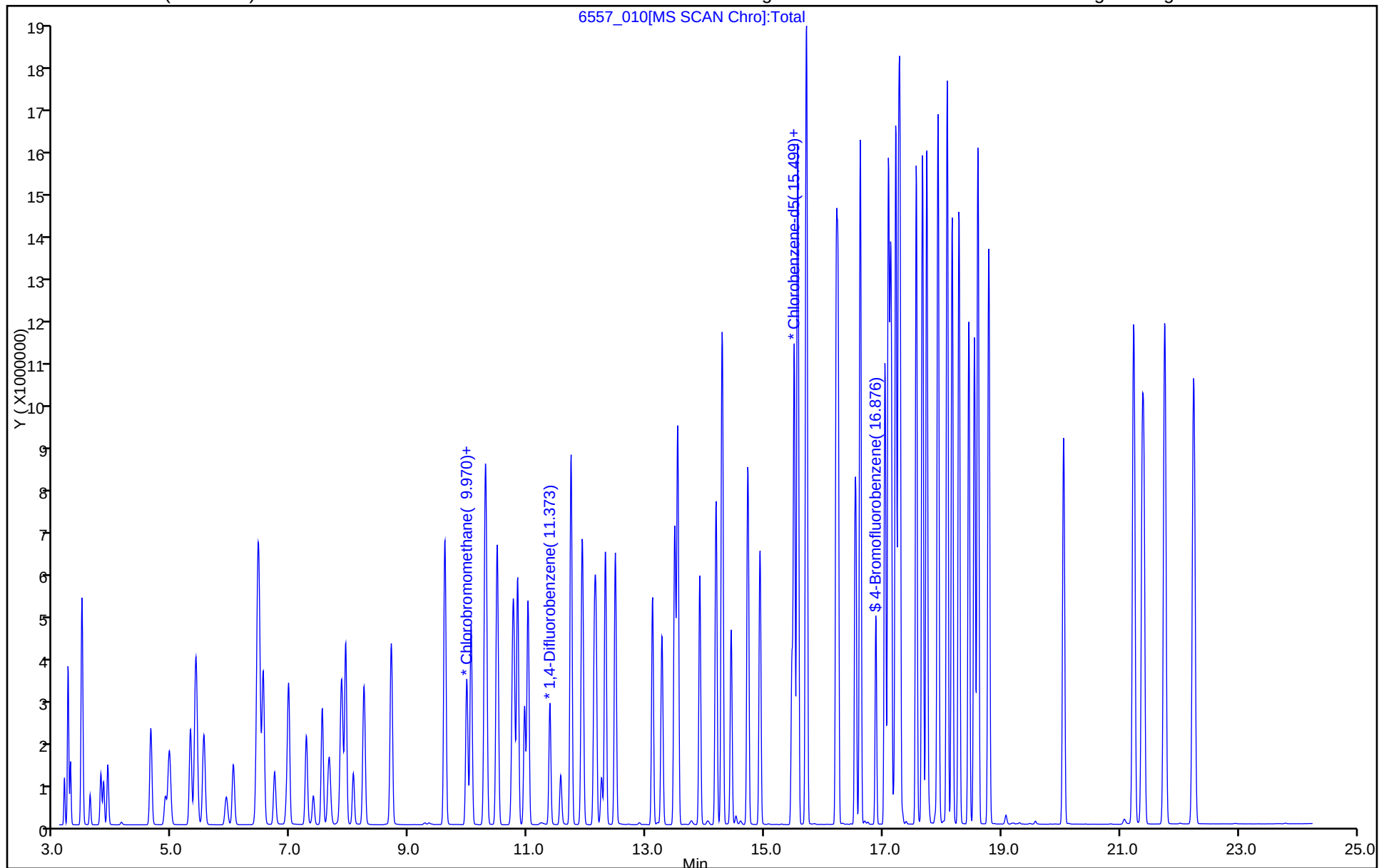
ALS Bottle#: 8

Method: TO15_LLNJ_TO3

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 480-57563-1
 SDG No.: _____
 Lab Sample ID: ICV 200-69511/13 Calibration Date: 03/14/2014 20:54
 Instrument ID: CHB.i Calib Start Date: 03/14/2014 12:11
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 03/14/2014 18:16
 Lab File ID: 6557_013.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.1743	0.1689		9.69	10.0	-3.1	30.0
Dichlorodifluoromethane	Ave	1.460	1.279		8.76	10.0	-12.4	30.0
Freon 22	Ave	0.5424	0.4978		9.18	10.0	-8.2	30.0
1,2-Dichlorotetrafluoroethane	Ave	1.403	1.345		9.59	10.0	-4.1	30.0
Chloromethane	Ave	0.2704	0.2466		9.12	10.0	-8.8	30.0
n-Butane	Ave	0.4504	0.4212		9.35	10.0	-6.5	30.0
Vinyl chloride	Ave	0.4616	0.4030		8.73	10.0	-12.7	30.0
1,3-Butadiene	Ave	0.3095	0.2794		9.02	10.0	-9.7	30.0
Bromomethane	Ave	0.8958	0.7559		8.44	10.0	-15.6	30.0
Chloroethane	Ave	0.3512	0.3075		8.75	10.0	-12.4	30.0
Isopentane	Ave	0.5170	0.4479		8.66	10.0	-13.4	30.0
Bromoethene (Vinyl Bromide)	Ave	1.028	0.8848		8.60	10.0	-13.9	30.0
Trichlorofluoromethane	Ave	2.551	2.176		8.53	10.0	-14.7	30.0
n-Pentane	Ave	0.9039	0.8825		9.76	10.0	-2.4	30.0
Ethanol	Ave	0.2261	0.1994		13.2	15.0	-11.8	30.0
Ethyl ether	Ave	0.5349	0.5438		10.2	10.0	1.7	30.0
Acrolein	Ave	0.2205	0.2504		11.4	10.0	13.6	30.0
Freon TF	Ave	2.227	2.041		9.17	10.0	-8.3	30.0
1,1-Dichloroethene	Ave	1.093	1.011		9.24	10.0	-7.6	30.0
Acetone	Ave	0.8103	0.7894		9.74	10.0	-2.6	30.0
Isopropyl alcohol	Ave	0.7237	0.6152		8.50	10.0	-15.0	30.0
Carbon disulfide	Ave	2.452	2.593		10.6	10.0	5.7	30.0
3-Chloropropene	Ave	0.7232	0.5910		8.17	10.0	-18.3	30.0
Acetonitrile	Ave	0.3573	0.3550		9.93	10.0	-0.7	30.0
Methylene Chloride	Ave	0.6693	0.5862		8.76	10.0	-12.4	30.0
tert-Butyl alcohol	Ave	1.366	1.236		9.05	10.0	-9.5	30.0
Methyl tert-butyl ether	Ave	2.686	2.536		9.44	10.0	-5.6	30.0
trans-1,2-Dichloroethene	Ave	1.094	1.049		9.58	10.0	-4.2	30.0
Acrylonitrile	Ave	0.4834	0.4667		9.65	10.0	-3.5	30.0
n-Hexane	Ave	1.134	1.098		9.68	10.0	-3.2	30.0
1,1-Dichloroethane	Ave	1.514	1.332		8.80	10.0	-12.0	30.0
Vinyl acetate	Ave	1.362	1.294		9.50	10.0	-5.0	30.0
cis-1,2-Dichloroethene	Ave	1.213	1.115		9.19	10.0	-8.1	30.0
Ethyl acetate	Ave	0.0884	0.0977		11.0	10.0	10.5	30.0
Methyl Ethyl Ketone	Ave	0.4983	0.4376		8.78	10.0	-12.2	30.0
Tetrahydrofuran	Ave	0.1091	0.1069		9.80	10.0	-2.0	30.0
Chloroform	Ave	2.101	1.932		9.20	10.0	-8.0	30.0
Cyclohexane	Ave	0.2942	0.2818		9.58	10.0	-4.2	30.0
1,1,1-Trichloroethane	Ave	0.4577	0.4252		9.29	10.0	-7.1	30.0
Carbon tetrachloride	Ave	0.5136	0.4633		9.02	10.0	-9.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 480-57563-1

SDG No.: _____

Lab Sample ID: ICV 200-69511/13 Calibration Date: 03/14/2014 20:54

Instrument ID: CHB.i Calib Start Date: 03/14/2014 12:11

GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 03/14/2014 18:16

Lab File ID: 6557_013.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,2,4-Trimethylpentane	Ave	0.7462	0.6797		9.11	10.0	-8.9	30.0
Benzene	Ave	0.6528	0.5963		9.13	10.0	-8.7	30.0
1,2-Dichloroethane	Ave	0.2219	0.2030		9.14	10.0	-8.5	30.0
n-Heptane	Ave	0.2147	0.1858		8.65	10.0	-13.5	30.0
n-Butanol	Ave	0.0798	0.0756		9.47	10.0	-5.3	30.0
Trichloroethene	Ave	0.3255	0.2936		9.02	10.0	-9.8	30.0
1,2-Dichloropropane	Ave	0.1898	0.1693		8.92	10.0	-10.8	30.0
Methyl methacrylate	Ave	0.1966	0.1967		10.0	10.0	0.0	30.0
1,4-Dioxane	Ave	0.1073	0.0999		9.31	10.0	-6.9	30.0
Dibromomethane	Ave	0.3400	0.3116		9.16	10.0	-8.4	30.0
Bromodichloromethane	Ave	0.4673	0.4270		9.14	10.0	-8.6	30.0
cis-1,3-Dichloropropene	Ave	0.3405	0.3234		9.49	10.0	-5.0	30.0
methyl isobutyl ketone	Ave	0.2634	0.2425		9.20	10.0	-7.9	30.0
n-Octane	Ave	0.2911	0.2555		8.77	10.0	-12.2	30.0
Toluene	Ave	0.6191	0.5824		9.41	10.0	-5.9	30.0
trans-1,3-Dichloropropene	Ave	0.3507	0.3327		9.49	10.0	-5.1	30.0
1,1,2-Trichloroethane	Ave	0.2741	0.2551		9.31	10.0	-6.9	30.0
Tetrachloroethene	Ave	0.6108	0.5573		9.12	10.0	-8.8	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.2987	0.2754		9.22	10.0	-7.8	30.0
Dibromochloromethane	Ave	0.6682	0.6141		9.19	10.0	-8.1	30.0
1,2-Dibromoethane	Ave	0.5825	0.5540		9.51	10.0	-4.9	30.0
Chlorobenzene	Ave	0.9196	0.8582		9.33	10.0	-6.7	30.0
n-Nonane	Ave	0.3979	0.3537		8.89	10.0	-11.1	30.0
Ethylbenzene	Ave	1.244	1.159		9.31	10.0	-6.9	30.0
m,p-Xylene	Ave	0.5474	0.5133		18.8	20.0	-6.2	30.0
Xylene, o-	Ave	0.5671	0.5291		9.33	10.0	-6.7	30.0
Styrene	Ave	0.8660	0.8276		9.55	10.0	-4.4	30.0
Bromoform	Ave	0.6560	0.6113		9.32	10.0	-6.8	30.0
Cumene	Ave	1.610	1.497		9.30	10.0	-7.0	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7149	0.6624		9.26	10.0	-7.3	30.0
n-Propylbenzene	Ave	1.780	1.657		9.31	10.0	-6.9	30.0
1,2,3-Trichloropropane	Ave	0.4684	0.4462		9.52	10.0	-4.7	30.0
n-Decane	Ave	0.4818	0.4674		9.70	10.0	-3.0	30.0
4-Ethyltoluene	Ave	1.617	1.544		9.55	10.0	-4.5	30.0
2-Chlorotoluene	Ave	1.226	1.123		9.16	10.0	-8.4	30.0
1,3,5-Trimethylbenzene	Ave	1.345	1.234		9.18	10.0	-8.2	30.0
Alpha Methyl Styrene	Ave	0.7136	0.7155		10.0	10.0	0.3	30.0
tert-Butylbenzene	Ave	1.363	1.262		9.26	10.0	-7.4	30.0
1,2,4-Trimethylbenzene	Ave	1.390	1.267		9.11	10.0	-8.8	30.0
sec-Butylbenzene	Ave	1.989	1.837		9.23	10.0	-7.7	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 480-57563-1
 SDG No.: _____
 Lab Sample ID: ICV 200-69511/13 Calibration Date: 03/14/2014 20:54
 Instrument ID: CHB.i Calib Start Date: 03/14/2014 12:11
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 03/14/2014 18:16
 Lab File ID: 6557_013.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	1.710	1.598		9.34	10.0	-6.5	30.0
1,3-Dichlorobenzene	Ave	1.029	0.9614		9.34	10.0	-6.6	30.0
1,4-Dichlorobenzene	Ave	1.024	0.9608		9.38	10.0	-6.2	30.0
Benzyl chloride	Ave	1.120	1.023		9.14	10.0	-8.6	30.0
n-Undecane	Ave	0.5203	0.5218		10.0	10.0	0.3	30.0
n-Butylbenzene	Ave	1.390	1.297		9.33	10.0	-6.7	30.0
1,2-Dichlorobenzene	Ave	0.9822	0.9137		9.30	10.0	-7.0	30.0
n-Dodecane	Ave	0.4505	0.3911		8.68	10.0	-13.2	30.0
1,2,4-Trichlorobenzene	Ave	0.6850	0.5823		8.50	10.0	-15.0	30.0
Hexachlorobutadiene	Ave	0.5499	0.4604		8.37	10.0	-16.3	30.0
Naphthalene	Ave	1.622	1.262		7.78	10.0	-22.2	30.0
1,2,3-Trichlorobenzene	Ave	0.5882	0.5106		8.68	10.0	-13.2	30.0

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_013.D

Lims ID: ICV

Client ID:

Sample Type: ICV

Inject. Date: 14-Mar-2014 20:54:30

ALS Bottle#:

2

Worklist Smp#:

13

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Sample Info: 200-0006557-013

Misc. Info.: icv

Operator ID: pad

Instrument ID:

CHB.i

Sublist:

Method: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\TO15_LLNJ_TO3.m

Limit Group: AI_TO15_ICAL

Last Update: 17-Mar-2014 10:55:17

Calib Date:

14-Mar-2014 18:16:30

Integrator: RTE

ID Type:

Deconvolution ID

Quant Method: Internal/External Standard

Quant By:

Initial Calibration

Last ICal File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D

Column 1 : RTX-624 (0.32 mm)

Det: MS SCAN

Process Host: XAWRK051

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
4 Propene	41	3.165	3.170	-0.005	97	117164	9.69	
5 Dichlorodifluoromethane	85	3.229	3.235	-0.006	99	887031	8.76	
6 Chlorodifluoromethane	51	3.272	3.272	0.0	94	345218	9.18	
7 1,2-Dichloro-1,1,2,2-tetrafluoro	85	3.459	3.464	-0.005	95	933058	9.59	
8 Chloromethane	50	3.603	3.603	0.0	99	171019	9.12	
9 Butane	43	3.784	3.784	0.0	96	292094	9.35	
10 Vinyl chloride	62	3.827	3.832	-0.005	96	279503	8.73	
11 Butadiene	54	3.896	3.902	-0.006	89	193730	9.02	
12 Bromomethane	94	4.622	4.627	-0.005	99	524190	8.44	
13 BFB								
14 Chloroethane	64	4.867	4.873	-0.006	96	213230	8.75	
15 2-Methylbutane	43	4.932	4.937	-0.005	86	310637	8.66	
16 Vinyl bromide	106	5.289	5.295	-0.006	97	613607	8.60	
17 Trichlorofluoromethane	101	5.380	5.385	-0.005	98	1508955	8.53	
18 Pentane	43	5.519	5.524	-0.005	95	612005	9.76	
19 Ethanol	45	5.887	5.887	0.0	99	207550	13.2	
21 Ethyl ether	59	6.015	6.020	-0.005	88	377147	10.2	
22 Acrolein	56	6.431	6.437	-0.006	95	173656	11.4	
23 1,1,2-Trichloro-1,2,2-trifluoro	101	6.437	6.442	-0.006	96	1415647	9.17	
24 1,1-Dichloroethene	96	6.522	6.522	0.0	85	701053	9.24	
25 Acetone	43	6.714	6.714	0.0	92	547431	9.74	
26 Isopropyl alcohol	45	6.912	6.917	-0.005	98	426659	8.50	
27 Carbon disulfide	76	6.949	6.954	-0.005	97	1798170	10.6	
29 3-Chloro-1-propene	41	7.248	7.253	-0.005	83	409880	8.17	
30 Acetonitrile	41	7.370	7.371	-0.001	99	246165	9.93	
31 Methylene Chloride	49	7.520	7.520	0.0	73	406522	8.76	
32 2-Methyl-2-propanol	59	7.621	7.621	0.0	98	856893	9.05	
33 Methyl tert-butyl ether	73	7.845	7.846	-0.001	94	1758706	9.44	
34 trans-1,2-Dichloroethene	61	7.915	7.915	0.0	80	727195	9.58	
35 Acrylonitrile	53	8.043	8.043	0.0	95	323653	9.65	
36 Hexane	57	8.224	8.230	-0.006	83	761390	9.68	

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags	
37	1,1-Dichloroethane	63	8.683	8.684	-0.001	99	923834	8.80
38	Vinyl acetate	43	8.689	8.689	0.0	98	897199	9.50
41	Ethyl acetate	88	9.591	9.591	0.0	90	67749	11.0
39	cis-1,2-Dichloroethene	96	9.591	9.591	0.0	96	773131	9.19
40	2-Butanone (MEK)	72	9.591	9.596	-0.005	99	303506	8.78
43	Tetrahydrofuran	42	9.959	9.959	0.0	76	368418	9.80
* 44	Chlorobromomethane	128	9.964	9.964	0.0	66	693647	10.0
S 42	1,2-Dichloroethene, Total	61				0		18.8
45	Chloroform	83	10.034	10.034	0.0	90	1339754	9.20
46	Cyclohexane	84	10.274	10.274	0.0	74	971149	9.58
47	1,1,1-Trichloroethane	97	10.284	10.285	-0.001	95	1465290	9.29
48	Carbon tetrachloride	117	10.477	10.477	0.0	97	1596865	9.02
49	Isooctane	57	10.749	10.749	0.0	98	2342436	9.11
50	Benzene	78	10.818	10.824	-0.006	91	2055266	9.13
51	1,2-Dichloroethane	62	10.936	10.941	-0.005	98	699508	9.14
52	n-Heptane	43	10.994	11.000	-0.006	75	640238	8.65
A 53	GRO	1	11.032	4.927 - 17.137		0	232638442	0
* 54	1,4-Difluorobenzene	114	11.368	11.368	0.0	91	3447206	10.0
56	n-Butanol	56	11.544	11.544	0.0	78	260404	9.47
57	Trichloroethene	95	11.725	11.726	-0.001	92	1011722	9.02
58	1,2-Dichloropropane	63	12.115	12.120	-0.005	92	583450	8.92
59	Methyl methacrylate	69	12.142	12.147	-0.005	79	677862	10.0
60	1,4-Dioxane	88	12.238	12.238	0.0	82	344341	9.31
61	Dibromomethane	174	12.307	12.307	0.0	90	1073958	9.16
62	Dichlorobromomethane	83	12.473	12.473	0.0	97	1471607	9.14
A 63	TVOC as Toluene	1	12.705	3.160 - 22.249		0	409432873	1918.5
64	cis-1,3-Dichloropropene	75	13.102	13.102	0.0	84	1114501	9.49
65	4-Methyl-2-pentanone (MIBK)	43	13.257	13.257	0.0	86	835696	9.20
A 66	C8 Range	1	13.457	13.426 -13.506		0	4704741	NC
67	n-Octane	43	13.476	13.476	0.0	75	880577	8.77
68	Toluene	92	13.524	13.524	0.0	91	1728162	9.41
A 69	Toluene Range	1	13.539	13.514 -13.564		0	6369725	NC
70	trans-1,3-Dichloropropene	75	13.898	13.898	0.0	90	1146790	9.49
71	1,1,2-Trichloroethane	83	14.175	14.175	0.0	92	756974	9.31
72	Tetrachloroethene	166	14.276	14.277	-0.001	96	1653633	9.12
73	2-Hexanone	43	14.426	14.426	0.0	86	817322	9.22
74	Chlorodibromomethane	129	14.709	14.709	0.0	96	1822161	9.19
75	Ethylene Dibromide	107	14.917	14.917	0.0	98	1643952	9.51
* 76	Chlorobenzene-d5	117	15.456	15.456	0.0	78	2967928	10.0
77	Chlorobenzene	112	15.493	15.493	0.0	90	2546593	9.33
78	n-Nonane	57	15.547	15.547	0.0	76	1049533	8.89
79	Ethylbenzene	91	15.557	15.557	0.0	96	3438012	9.31
80	m-Xylene & p-Xylene	106	15.701	15.702	-0.001	98	3046127	18.8
S 81	Xylenes, Total	106				0		28.1
82	o-Xylene	106	16.208	16.209	-0.001	95	1570045	9.33
83	Styrene	104	16.235	16.235	0.0	98	2455692	9.55
84	Bromoform	173	16.529	16.529	0.0	97	1813916	9.32
85	Isopropylbenzene	105	16.609	16.609	0.0	93	4442474	9.30
\$ 86	4-Bromofluorobenzene	95	16.870	16.870	0.0	96	1899865	NC
87	1,1,2,2-Tetrachloroethane	83	17.025	17.025	0.0	96	1965498	9.26
88	N-Propylbenzene	91	17.084	17.084	0.0	98	4916784	9.31
89	1,2,3-Trichloropropane	75	17.116	17.116	0.0	84	1323964	9.52

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response		On-Col Amt ppb v/v	Flags	
90	n-Decane		57	17.126	17.127	0.0	77	1386846	9.70
91	4-Ethyltoluene		105	17.206	17.207	-0.001	81	4582305	9.55
92	2-Chlorotoluene		91	17.254	17.255	-0.001	95	3332059	9.16
93	1,3,5-Trimethylbenzene		105	17.276	17.276	0.0	94	3662635	9.18
94	Alpha Methyl Styrene		118	17.553	17.553	0.0	90	2123197	10.0
95	tert-Butylbenzene		119	17.660	17.660	0.0	92	3743526	9.26
96	1,2,4-Trimethylbenzene		105	17.729	17.730	-0.001	95	3761035	9.11
97	sec-Butylbenzene		105	17.922	17.922	0.0	99	5451230	9.23
98	4-Isopropyltoluene		119	18.076	18.076	0.0	87	4742327	9.34
99	1,3-Dichlorobenzene		146	18.162	18.162	0.0	98	2852693	9.34
100	1,4-Dichlorobenzene		146	18.274	18.274	0.0	97	2851129	9.38
101	Benzyl chloride		91	18.445	18.445	0.0	99	3036526	9.14
102	Undecane		57	18.535	18.535	0.0	86	1548329	10.0
103	n-Butylbenzene		91	18.594	18.594	0.0	93	3848935	9.33
104	1,2-Dichlorobenzene		146	18.781	18.781	0.0	98	2711280	9.30
106	Dodecane		57	20.046	20.046	0.0	87	1160453	8.68
107	1,2,4-Trichlorobenzene		180	21.225	21.225	0.0	91	1727917	8.50
108	Hexachlorobutadiene		225	21.385	21.385	0.0	91	1366299	8.37
109	Naphthalene		128	21.753	21.748	0.005	99	3745985	7.78
110	1,2,3-Trichlorobenzene		180	22.244	22.239	0.005	95	1515132	8.68

WorkSheet Quantitation Report

Sig	RT	Lower RT	Upper RT	Q	Response	On-Col Amt ppb v/v	Ratio Range	Ratio	Flags

Report Date: 17-Mar-2014 10:55:22

Chrom Revision: 2.2 28-Feb-2014 15:12:04

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_013.D

Injection Date: 14-Mar-2014 20:54:30

Instrument ID: CHB.i

Operator ID: pad

Lims ID: ICV

Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

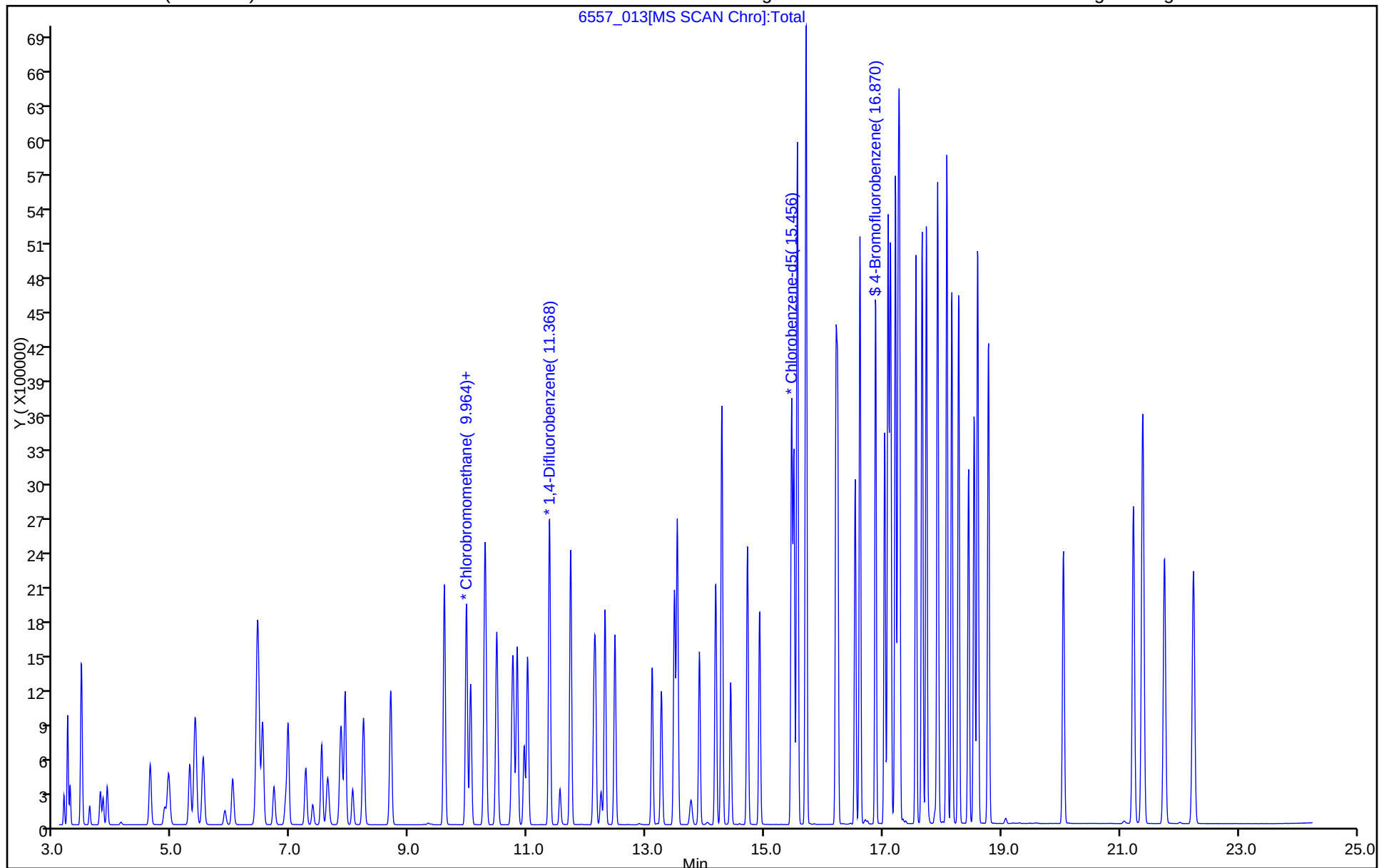
ALS Bottle#: 2

Method: TO15_LL NJ_TO3

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 480-57563-1

SDG No.: _____

Lab Sample ID: CCVIS 200-70664/2 Calibration Date: 04/11/2014 12:47

Instrument ID: CHB.i Calib Start Date: 03/14/2014 12:11

GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 03/14/2014 18:16

Lab File ID: 7003_002.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.1743	0.1458		8.36	10.0	-16.3	30.0
Dichlorodifluoromethane	Ave	1.460	1.303		8.92	10.0	-10.8	30.0
Freon 22	Ave	0.5424	0.4481		8.26	10.0	-17.4	30.0
1,2-Dichlorotetrafluoroethane	Ave	1.403	1.137		8.11	10.0	-18.9	30.0
Chloromethane	Ave	0.2704	0.2177		8.05	10.0	-19.5	30.0
n-Butane	Ave	0.4504	0.3607		8.01	10.0	-19.9	30.0
Vinyl chloride	Ave	0.4616	0.3570		7.73	10.0	-22.7	30.0
1,3-Butadiene	Ave	0.3095	0.2455		7.93	10.0	-20.7	30.0
Bromomethane	Ave	0.8958	0.7148		7.98	10.0	-20.2	30.0
Chloroethane	Ave	0.3512	0.2986		8.50	10.0	-15.0	30.0
Isopentane	Ave	0.5170	0.4072		7.87	10.0	-21.2	30.0
Bromoethene (Vinyl Bromide)	Ave	1.028	0.8314		8.09	10.0	-19.1	30.0
Trichlorofluoromethane	Ave	2.551	2.192		8.59	10.0	-14.1	30.0
n-Pentane	Ave	0.9039	0.8052		8.91	10.0	-10.9	30.0
Ethanol	Ave	0.2261	0.2381		15.8	15.0	5.3	30.0
Ethyl ether	Ave	0.5349	0.4585		8.57	10.0	-14.3	30.0
Acrolein	Ave	0.2205	0.1685		7.64	10.0	-23.6	30.0
Freon TF	Ave	2.227	1.866		8.38	10.0	-16.2	30.0
1,1-Dichloroethene	Ave	1.093	0.9286		8.49	10.0	-15.1	30.0
Acetone	Ave	0.8103	0.7771		9.59	10.0	-4.1	30.0
Isopropyl alcohol	Ave	0.7237	0.6821		9.42	10.0	-5.7	30.0
Carbon disulfide	Ave	2.452	2.132		8.69	10.0	-13.0	30.0
3-Chloropropene	Ave	0.7232	0.6161		8.52	10.0	-14.8	30.0
Acetonitrile	Ave	0.3573	0.3287		9.20	10.0	-8.0	30.0
Methylene Chloride	Ave	0.6693	0.5894		8.81	10.0	-11.9	30.0
tert-Butyl alcohol	Ave	1.366	1.246		9.12	10.0	-8.8	30.0
Methyl tert-butyl ether	Ave	2.686	2.355		8.77	10.0	-12.3	30.0
trans-1,2-Dichloroethene	Ave	1.094	0.9686		8.85	10.0	-11.5	30.0
Acrylonitrile	Ave	0.4834	0.4182		8.65	10.0	-13.5	30.0
n-Hexane	Ave	1.134	0.9670		8.52	10.0	-14.8	30.0
1,1-Dichloroethane	Ave	1.514	1.263		8.34	10.0	-16.6	30.0
Vinyl acetate	Ave	1.362	1.252		9.19	10.0	-8.0	30.0
cis-1,2-Dichloroethene	Ave	1.213	1.041		8.59	10.0	-14.1	30.0
Ethyl acetate	Ave	0.0884	0.0789		8.92	10.0	-10.8	30.0
Methyl Ethyl Ketone	Ave	0.4983	0.4021		8.07	10.0	-19.3	30.0
Tetrahydrofuran	Ave	0.1091	0.1082		9.92	10.0	-0.8	30.0
Chloroform	Ave	2.101	1.833		8.73	10.0	-12.7	30.0
Cyclohexane	Ave	0.2942	0.2673		9.09	10.0	-9.1	30.0
1,1,1-Trichloroethane	Ave	0.4577	0.4279		9.35	10.0	-6.5	30.0
Carbon tetrachloride	Ave	0.5136	0.4623		9.00	10.0	-10.0	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 480-57563-1

SDG No.: _____

Lab Sample ID: CCVIS 200-70664/2 Calibration Date: 04/11/2014 12:47

Instrument ID: CHB.i Calib Start Date: 03/14/2014 12:11

GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 03/14/2014 18:16

Lab File ID: 7003_002.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,2,4-Trimethylpentane	Ave	0.7462	0.6841		9.17	10.0	-8.3	30.0
Benzene	Ave	0.6528	0.5718		8.76	10.0	-12.4	30.0
1,2-Dichloroethane	Ave	0.2219	0.2077		9.36	10.0	-6.4	30.0
n-Heptane	Ave	0.2147	0.1930		8.99	10.0	-10.1	30.0
n-Butanol	Ave	0.0798	0.0722		9.05	10.0	-9.5	30.0
Trichloroethene	Ave	0.3255	0.2821		8.66	10.0	-13.4	30.0
1,2-Dichloropropane	Ave	0.1898	0.1694		8.92	10.0	-10.7	30.0
Methyl methacrylate	Ave	0.1966	0.1815		9.23	10.0	-7.7	30.0
1,4-Dioxane	Ave	0.1073	0.0999		9.31	10.0	-6.9	30.0
Dibromomethane	Ave	0.3400	0.3042		8.94	10.0	-10.5	30.0
Bromodichloromethane	Ave	0.4673	0.4334		9.27	10.0	-7.2	30.0
cis-1,3-Dichloropropene	Ave	0.3405	0.3115		9.15	10.0	-8.5	30.0
methyl isobutyl ketone	Ave	0.2634	0.2479		9.41	10.0	-5.9	30.0
n-Octane	Ave	0.2911	0.2649		9.10	10.0	-9.0	30.0
Toluene	Ave	0.6191	0.5435		8.78	10.0	-12.2	30.0
trans-1,3-Dichloropropene	Ave	0.3507	0.3261		9.30	10.0	-7.0	30.0
1,1,2-Trichloroethane	Ave	0.2741	0.2439		8.90	10.0	-11.0	30.0
Tetrachloroethene	Ave	0.6108	0.5346		8.75	10.0	-12.5	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.2987	0.2714		9.08	10.0	-9.2	30.0
Dibromochloromethane	Ave	0.6682	0.6322		9.46	10.0	-5.4	30.0
1,2-Dibromoethane	Ave	0.5825	0.5286		9.07	10.0	-9.2	30.0
Chlorobenzene	Ave	0.9196	0.8171		8.88	10.0	-11.1	30.0
n-Nonane	Ave	0.3979	0.3540		8.89	10.0	-11.0	30.0
Ethylbenzene	Ave	1.244	1.134		9.11	10.0	-8.9	30.0
m,p-Xylene	Ave	0.5474	0.5011		18.3	20.0	-8.5	30.0
Xylene, o-	Ave	0.5671	0.5135		9.05	10.0	-9.5	30.0
Styrene	Ave	0.8660	0.7844		9.06	10.0	-9.4	30.0
Bromoform	Ave	0.6560	0.6272		9.56	10.0	-4.4	30.0
Cumene	Ave	1.610	1.485		9.22	10.0	-7.8	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7149	0.6431		8.99	10.0	-10.0	30.0
n-Propylbenzene	Ave	1.780	1.648		9.26	10.0	-7.4	30.0
1,2,3-Trichloropropane	Ave	0.4684	0.4528		9.66	10.0	-3.3	30.0
n-Decane	Ave	0.4818	0.4710		9.77	10.0	-2.2	30.0
4-Ethyltoluene	Ave	1.617	1.491		9.22	10.0	-7.8	30.0
2-Chlorotoluene	Ave	1.226	1.121		9.15	10.0	-8.5	30.0
1,3,5-Trimethylbenzene	Ave	1.345	1.237		9.19	10.0	-8.1	30.0
Alpha Methyl Styrene	Ave	0.7136	0.6678		9.36	10.0	-6.4	30.0
tert-Butylbenzene	Ave	1.363	1.242		9.12	10.0	-8.8	30.0
1,2,4-Trimethylbenzene	Ave	1.390	1.247		8.97	10.0	-10.3	30.0
sec-Butylbenzene	Ave	1.989	1.804		9.06	10.0	-9.3	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 480-57563-1
 SDG No.: _____
 Lab Sample ID: CCVIS 200-70664/2 Calibration Date: 04/11/2014 12:47
 Instrument ID: CHB.i Calib Start Date: 03/14/2014 12:11
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 03/14/2014 18:16
 Lab File ID: 7003_002.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	1.710	1.570		9.18	10.0	-8.2	30.0
1,3-Dichlorobenzene	Ave	1.029	0.9315		9.05	10.0	-9.5	30.0
1,4-Dichlorobenzene	Ave	1.024	0.9344		9.12	10.0	-8.8	30.0
Benzyl chloride	Ave	1.120	1.032		9.22	10.0	-7.8	30.0
n-Undecane	Ave	0.5203	0.5226		10.0	10.0	0.5	30.0
n-Butylbenzene	Ave	1.390	1.280		9.20	10.0	-7.9	30.0
1,2-Dichlorobenzene	Ave	0.9822	0.8894		9.05	10.0	-9.4	30.0
n-Dodecane	Ave	0.4505	0.3972		8.82	10.0	-11.8	30.0
1,2,4-Trichlorobenzene	Ave	0.6850	0.5575		8.14	10.0	-18.6	30.0
Hexachlorobutadiene	Ave	0.5499	0.4591		8.35	10.0	-16.5	30.0
Naphthalene	Ave	1.622	1.258		7.75	10.0	-22.4	30.0
1,2,3-Trichlorobenzene	Ave	0.5882	0.4998		8.50	10.0	-15.0	30.0

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\Btv-lims1\chromdata\CHB.i\20140411-7003.b\7003_002.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 11-Apr-2014 12:47:30 ALS Bottle#: 1 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 200-0007003-002
 Misc. Info.: ccvis
 Operator ID: pad Instrument ID: CHB.i
 Sublist: chrom-TO15_LLNJ_TO3*sub5
 Method: \\Btv-lims1\chromdata\CHB.i\20140411-7003.b\TO15_LLNJ_TO3.m
 Limit Group: AI_TO15_ICAL
 Last Update: 14-Apr-2014 11:42:40 Calib Date: 14-Mar-2014 18:16:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal/External Standard Quant By: Initial Calibration
 Last ICal File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: daiglep

Date: 11-Apr-2014 14:31:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
4 Propene	41	3.170	3.170	0.000	96	112770	10.0	8.36	
5 Dichlorodifluoromethane	85	3.235	3.235	0.000	88	1007694	10.0	8.92	
6 Chlorodifluoromethane	51	3.272	3.272	0.000	74	346588	10.0	8.26	
7 1,2-Dichloro-1,1,2,2-tetra	85	3.464	3.464	0.000	88	879700	10.0	8.11	
8 Chloromethane	50	3.603	3.603	0.000	88	168371	10.0	8.05	
9 Butane	43	3.784	3.784	0.000	95	279010	10.0	8.01	
10 Vinyl chloride	62	3.832	3.832	0.000	81	276114	10.0	7.73	
11 Butadiene	54	3.902	3.902	0.000	89	189919	10.0	7.93	
12 Bromomethane	94	4.622	4.622	0.000	99	552839	10.0	7.98	
13 BFB									
14 Chloroethane	64	4.868	4.868	0.000	96	230970	10.0	8.50	
15 2-Methylbutane	43	4.937	4.937	0.000	87	314942	10.0	7.87	
16 Vinyl bromide	106	5.295	5.295	0.000	97	643055	10.0	8.09	
17 Trichlorofluoromethane	101	5.385	5.385	0.000	96	1695589	10.0	8.59	
18 Pentane	43	5.519	5.519	0.000	94	622768	10.0	8.91	
19 Ethanol	45	5.882	5.882	0.000	99	276335	15.0	15.8	
21 Ethyl ether	59	6.015	6.015	0.000	89	354620	10.0	8.57	
22 Acrolein	56	6.426	6.426	0.000	94	130359	10.0	7.64	
23 1,1,2-Trichloro-1,2,2-trif	101	6.437	6.437	0.000	96	1443343	10.0	8.38	
24 1,1-Dichloroethene	96	6.522	6.522	0.000	88	718283	10.0	8.49	
25 Acetone	43	6.709	6.709	0.000	90	601086	10.0	9.59	
26 Isopropyl alcohol	45	6.906	6.906	0.000	98	527614	10.0	9.42	
27 Carbon disulfide	76	6.949	6.949	0.000	98	1649018	10.0	8.69	
29 3-Chloro-1-propene	41	7.248	7.248	0.000	83	476542	10.0	8.52	
30 Acetonitrile	41	7.365	7.365	0.000	99	254246	10.0	9.20	
31 Methylene Chloride	49	7.515	7.515	0.000	71	455919	10.0	8.81	
32 2-Methyl-2-propanol	59	7.616	7.616	0.000	98	963650	10.0	9.12	
33 Methyl tert-butyl ether	73	7.840	7.840	0.000	94	1821500	10.0	8.77	
34 trans-1,2-Dichloroethene	61	7.910	7.910	0.000	83	749200	10.0	8.85	
35 Acrylonitrile	53	8.038	8.038	0.000	96	323462	10.0	8.65	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
36 Hexane	57	8.219	8.219	0.000	85	747979	10.0	8.52	
37 1,1-Dichloroethane	63	8.678	8.678	0.000	94	976934	10.0	8.34	
38 Vinyl acetate	43	8.684	8.684	0.000	98	968362	10.0	9.19	
39 cis-1,2-Dichloroethene	96	9.585	9.585	0.000	87	805538	10.0	8.59	
41 Ethyl acetate	88	9.585	9.585	0.000	89	61013	10.0	8.92	
40 2-Butanone (MEK)	72	9.591	9.591	0.000	99	310999	10.0	8.07	
43 Tetrahydrofuran	42	9.954	9.954	0.000	79	396110	10.0	9.92	
* 44 Chlorobromomethane	128	9.959	9.959	0.000	66	773626	10.0	10.0	
S 42 1,2-Dichloroethene, Total	61				0		20.0	17.4	
45 Chloroform	83	10.028	10.028	0.000	90	1418057	10.0	8.73	
46 Cyclohexane	84	10.269	10.269	0.000	77	978941	10.0	9.09	
47 1,1,1-Trichloroethane	97	10.279	10.279	0.000	93	1566868	10.0	9.35	
48 Carbon tetrachloride	117	10.471	10.471	0.000	97	1692734	10.0	9.00	
49 Isooctane	57	10.744	10.744	0.000	98	2505184	10.0	9.17	
50 Benzene	78	10.813	10.813	0.000	92	2093902	10.0	8.76	
51 1,2-Dichloroethane	62	10.930	10.930	0.000	99	760413	10.0	9.36	
52 n-Heptane	43	10.989	10.989	0.000	76	706623	10.0	8.99	
A 53 GRO	1	11.504	(4.927-17.131)		0	245923284	10.0	0	
* 54 1,4-Difluorobenzene	114	11.357	11.357	0.000	91	3662676	10.0	10.0	
56 n-Butanol	56	11.533	11.533	0.000	80	264526	10.0	9.05	
57 Trichloroethene	95	11.715	11.715	0.000	93	1032862	10.0	8.66	
58 1,2-Dichloropropane	63	12.110	12.110	0.000	91	620489	10.0	8.92	
59 Methyl methacrylate	69	12.136	12.136	0.000	84	664659	10.0	9.23	
60 1,4-Dioxane	88	12.227	12.227	0.000	82	365989	10.0	9.31	
61 Dibromomethane	174	12.297	12.297	0.000	91	1113848	10.0	8.94	
62 Dichlorobromomethane	83	12.462	12.462	0.000	94	1587222	10.0	9.27	
A 63 TVOC as Toluene	1	13.006	(3.160-22.239)		0	437097659	10.0	1927.6	
64 cis-1,3-Dichloropropene	75	13.092	13.092	0.000	85	1140845	10.0	9.15	
65 4-Methyl-2-pentanone (MIBK)	43	13.247	13.247	0.000	88	907915	10.0	9.41	
A 66 C8 Range	1	13.451	(13.421-13.501)		0	5191665	NC	NC	
67 n-Octane	43	13.471	13.471	0.000	75	969948	10.0	9.10	
68 Toluene	92	13.519	13.519	0.000	91	1743127	10.0	8.78	
A 69 Toluene Range	1	13.534	(13.509-13.559)		0	6416019	NC	NC	
70 trans-1,3-Dichloropropene	75	13.892	13.892	0.000	91	1194200	10.0	9.30	
71 1,1,2-Trichloroethane	83	14.165	14.165	0.000	92	782285	10.0	8.90	
72 Tetrachloroethene	166	14.271	14.271	0.000	91	1714472	10.0	8.75	
73 2-Hexanone	43	14.415	14.415	0.000	87	870230	10.0	9.08	
74 Chlorodibromomethane	129	14.704	14.704	0.000	96	2027441	10.0	9.46	
75 Ethylene Dibromide	107	14.906	14.906	0.000	98	1695236	10.0	9.07	
* 76 Chlorobenzene-d5	117	15.445	15.445	0.000	79	3207625	10.0	10.0	
77 Chlorobenzene	112	15.488	15.488	0.000	96	2620322	10.0	8.88	
78 n-Nonane	57	15.541	15.541	0.000	78	1135355	10.0	8.89	
79 Ethylbenzene	91	15.547	15.547	0.000	96	3635910	10.0	9.11	
80 m-Xylene & p-Xylene	106	15.691	15.691	0.000	98	3213936	20.0	18.3	
S 81 Xylenes, Total	106				0		30.0	27.4	
82 o-Xylene	106	16.198	16.198	0.000	95	1646721	10.0	9.05	
83 Styrene	104	16.225	16.225	0.000	97	2515496	10.0	9.06	
84 Bromoform	173	16.523	16.523	0.000	99	2011420	10.0	9.56	
85 Isopropylbenzene	105	16.603	16.603	0.000	93	4760970	10.0	9.22	
\$ 86 4-Bromofluorobenzene	95	16.865	16.865	0.000	97	2038053	NC	NC	
87 1,1,2,2-Tetrachloroethane	83	17.020	17.020	0.000	96	2062342	10.0	8.99	
88 N-Propylbenzene	91	17.078	17.078	0.000	96	5286063	10.0	9.26	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
89 1,2,3-Trichloropropane	75	17.105	17.105	0.000	90	1451995	10.0	9.66	
90 n-Decane	57	17.121	17.121	0.000	78	1510498	10.0	9.77	
91 4-Ethyltoluene	105	17.201	17.201	0.000	85	4781923	10.0	9.22	
92 2-Chlorotoluene	91	17.249	17.249	0.000	94	3596080	10.0	9.15	
93 1,3,5-Trimethylbenzene	105	17.271	17.271	0.000	94	3965573	10.0	9.19	
94 Alpha Methyl Styrene	118	17.548	17.548	0.000	90	2141558	10.0	9.36	
95 tert-Butylbenzene	119	17.650	17.650	0.000	92	3984476	10.0	9.12	
96 1,2,4-Trimethylbenzene	105	17.724	17.724	0.000	95	3998203	10.0	8.97	
97 sec-Butylbenzene	105	17.911	17.911	0.000	99	5784197	10.0	9.06	
98 4-Isopropyltoluene	119	18.071	18.071	0.000	88	5035424	10.0	9.18	
99 1,3-Dichlorobenzene	146	18.151	18.151	0.000	98	2987282	10.0	9.05	
100 1,4-Dichlorobenzene	146	18.269	18.269	0.000	96	2996452	10.0	9.12	
101 Benzyl chloride	91	18.434	18.434	0.000	100	3310698	10.0	9.22	
102 Undecane	57	18.530	18.530	0.000	86	1676115	10.0	10.0	
103 n-Butylbenzene	91	18.589	18.589	0.000	94	4105451	10.0	9.20	
104 1,2-Dichlorobenzene	146	18.770	18.770	0.000	98	2852202	10.0	9.05	
106 Dodecane	57	20.035	20.035	0.000	88	1273960	10.0	8.82	
107 1,2,4-Trichlorobenzene	180	21.215	21.215	0.000	91	1787998	10.0	8.14	
108 Hexachlorobutadiene	225	21.375	21.375	0.000	92	1472190	10.0	8.35	
109 Naphthalene	128	21.738	21.738	0.000	99	4034275	10.0	7.75	
110 1,2,3-Trichlorobenzene	180	22.229	22.229	0.000	95	1602973	10.0	8.50	

Report Date: 14-Apr-2014 11:42:41

Chrom Revision: 2.2 10-Apr-2014 15:11:30

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140411-7003.b\7003_002.D

Injection Date: 11-Apr-2014 12:47:30

Instrument ID: CHB.i

Operator ID: pad

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

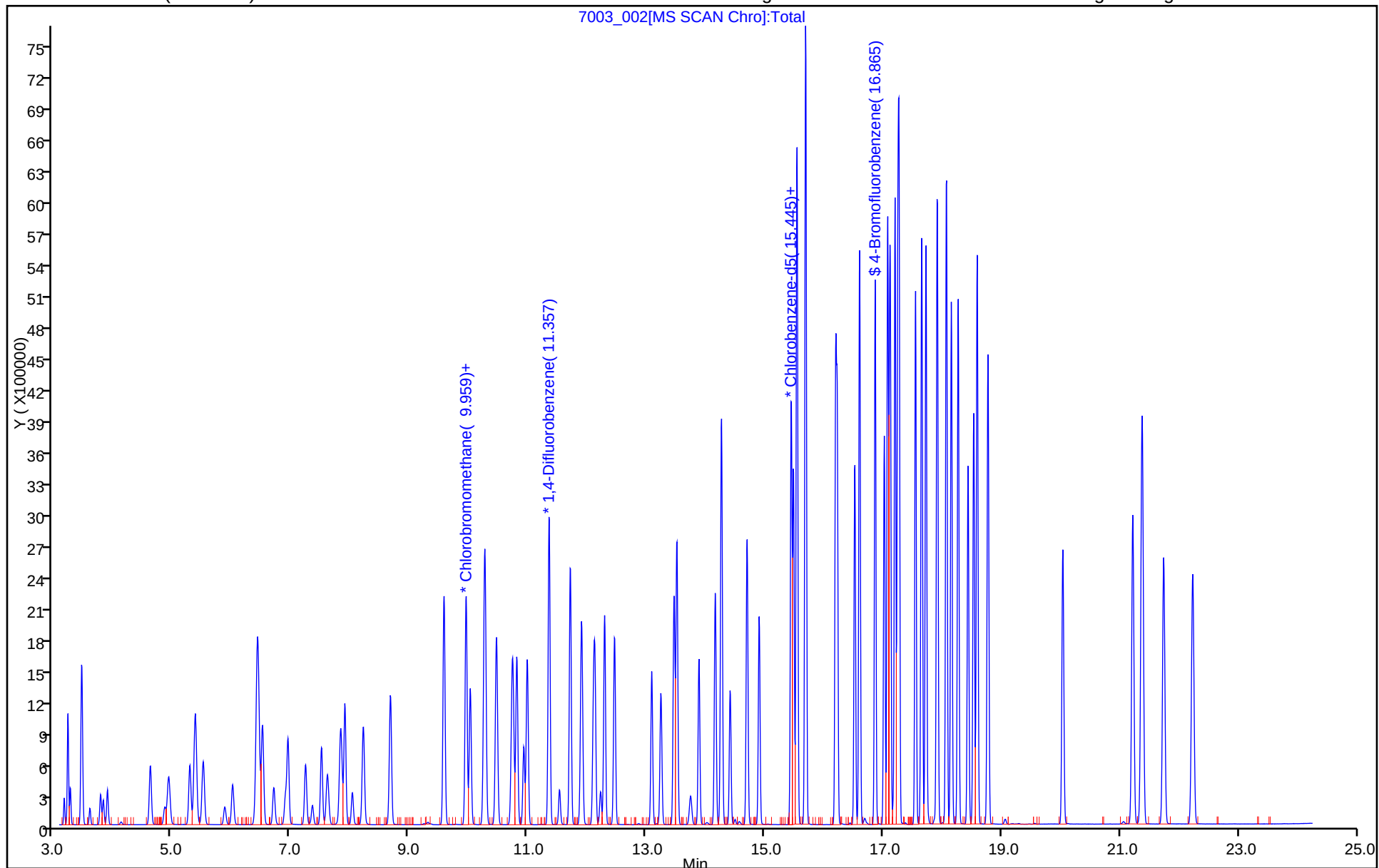
ALS Bottle#: 1

Method: TO15_LLNJ_TO3

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_001.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 14-Mar-2014 10:21:30 ALS Bottle#: 1 Worklist Smp#: 1
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 200-0006557-001
Misc. Info.: bfb
Operator ID: pad Instrument ID: CHB.i
Method: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\TO15_LLNJ_TO3.m
Limit Group: AI_TO15_ICAL
Last Update: 17-Mar-2014 10:55:01 Calib Date: 14-Mar-2014 18:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D
Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK051

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
13 BFB								
* 44 Chlorobromomethane	128	8.558	8.558	0.0	1	35	10.0	s
* 54 1,4-Difluorobenzene	114		11.368					
* 76 Chlorobenzene-d5	117		15.456					
\$ 86 4-Bromofluorobenzene	95		16.870					

QC Flag Legend

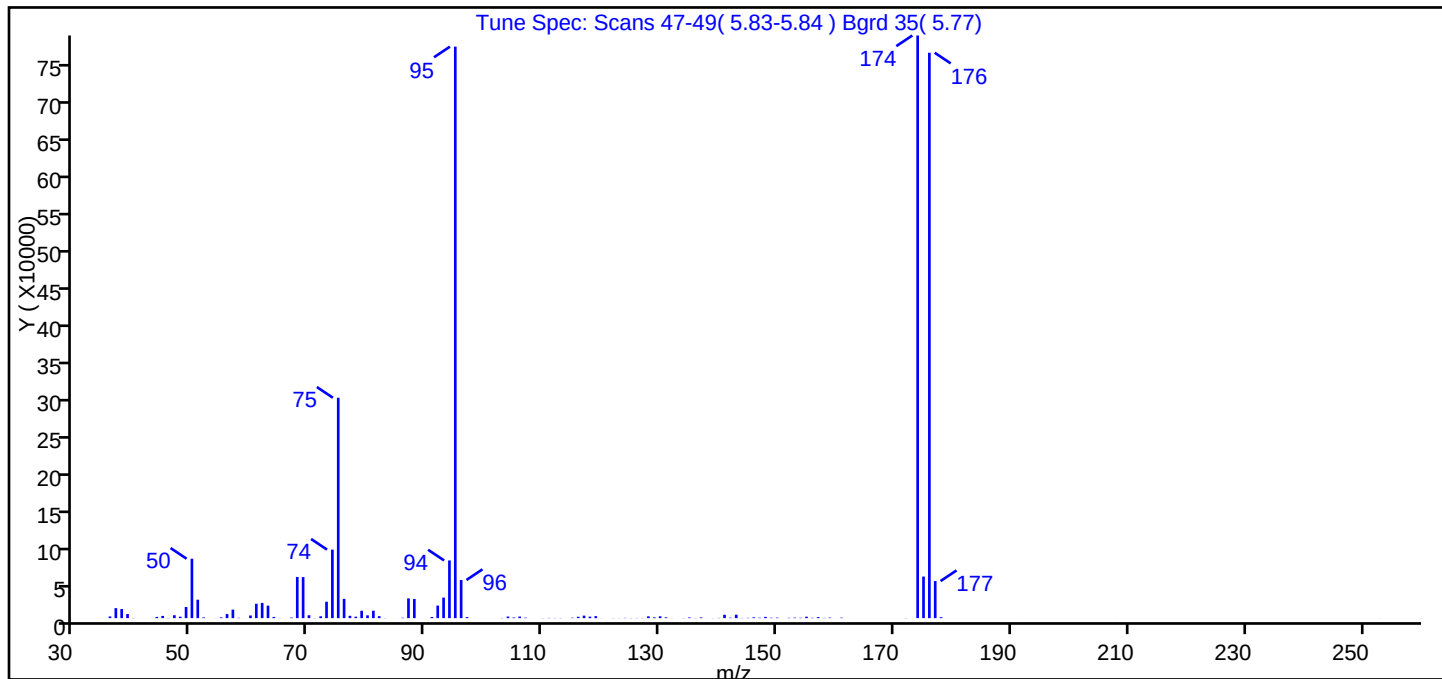
Processing Flags

s - Failed ISTD Recovery Test

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_001.D
Injection Date: 14-Mar-2014 10:21:30 Instrument ID: CHB.i
Lims ID: BFB
Client ID:
Operator ID: pad ALS Bottle#: 1 Worklist Smp#: 1
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_LLNJ_TO3 Limit Group: AI_TO15_ICAL
Tune Method: BFB Method TO-15

13 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	10.40
75	30.00 - 66.00% of mass 95	38.60
96	5.00 - 9.00% of mass 95	6.70
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	102.00
175	4.00 - 9.00% of mass 174	7.30 (7.10)
176	93.00 - 101.00% of mass 174	98.90 (97.00)
177	5.00 - 9.00% of mass 176	6.50 (6.60)

Data File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_001.D\TO15_LL NJ_TO3.rslt\spectra.d
Injection Date: 14-Mar-2014 10:21:30
Spectrum: Tune Spec: Scans 47-49(5.83-5.84) Bgrd 35(5.77)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 121

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2250	71.00	180	111.00	329	144.00	256
37.00	13448	72.00	2438	112.00	225	145.00	432
38.00	12293	73.00	22112	113.00	237	146.00	1104
39.00	5536	74.00	92272	115.00	575	147.00	588
40.00	293	75.00	296832	116.00	1856	148.00	1722
43.00	46	76.00	26000	117.00	3376	149.00	555
44.00	1687	77.00	3143	118.00	2013	150.00	709
45.00	3018	78.00	1984	119.00	2673	152.00	453
46.00	240	79.00	9938	120.00	137	153.00	693
47.00	3951	80.00	3784	122.00	156	154.00	543
48.00	1938	81.00	10006	123.00	167	155.00	1956
49.00	15077	82.00	2639	124.00	348	156.00	476
50.00	80016	83.00	230	125.00	230	157.00	1368
51.00	24840	86.00	562	126.00	235	158.00	302
52.00	970	87.00	26640	127.00	234	159.00	702
54.00	91	88.00	25824	128.00	2411	161.00	674
55.00	1022	89.00	41	129.00	1078	163.00	39
56.00	5541	91.00	1504	130.00	2465	172.00	221
57.00	11479	92.00	16912	131.00	1075	174.00	784704
58.00	442	93.00	27640	132.00	105	175.00	56008
59.00	34	94.00	77704	133.00	29	176.00	761472
60.00	3553	95.00	769664	134.00	169	177.00	49936
61.00	19392	96.00	51392	135.00	907	178.00	1312
62.00	20512	97.00	1412	136.00	188	191.00	30
63.00	16792	98.00	34	137.00	961	208.00	54
64.00	1613	103.00	264	138.00	34	209.00	6
65.00	156	104.00	2119	139.00	171	253.00	67
67.00	792	105.00	885	140.00	312	260.00	137
68.00	55480	106.00	2124	141.00	4559		
69.00	55272	107.00	675	142.00	611		
70.00	3920	110.00	196	143.00	4620		

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\Btv-lims1\chromdata\CHB.i\20140411-7003.b\7003_001.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 11-Apr-2014 11:58:30 ALS Bottle#: 1 Worklist Smp#: 1
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 200-0007003-001
Misc. Info.: bfb
Operator ID: pad Instrument ID: CHB.i
Method: \\Btv-lims1\chromdata\CHB.i\20140411-7003.b\TO15_LLNJ_TO3.m
Limit Group: AI_TO15_ICAL
Last Update: 14-Apr-2014 11:42:39 Calib Date: 14-Mar-2014 18:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D
Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK051

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
13 BFB									
* 44 Chlorobromomethane	128	8.414	8.414	0.000	1	71	10.0	10.0	s
* 54 1,4-Difluorobenzene	114		11.357						
* 76 Chlorobenzene-d5	117		15.445						
\$ 86 4-Bromofluorobenzene	95		16.865						

QC Flag Legend

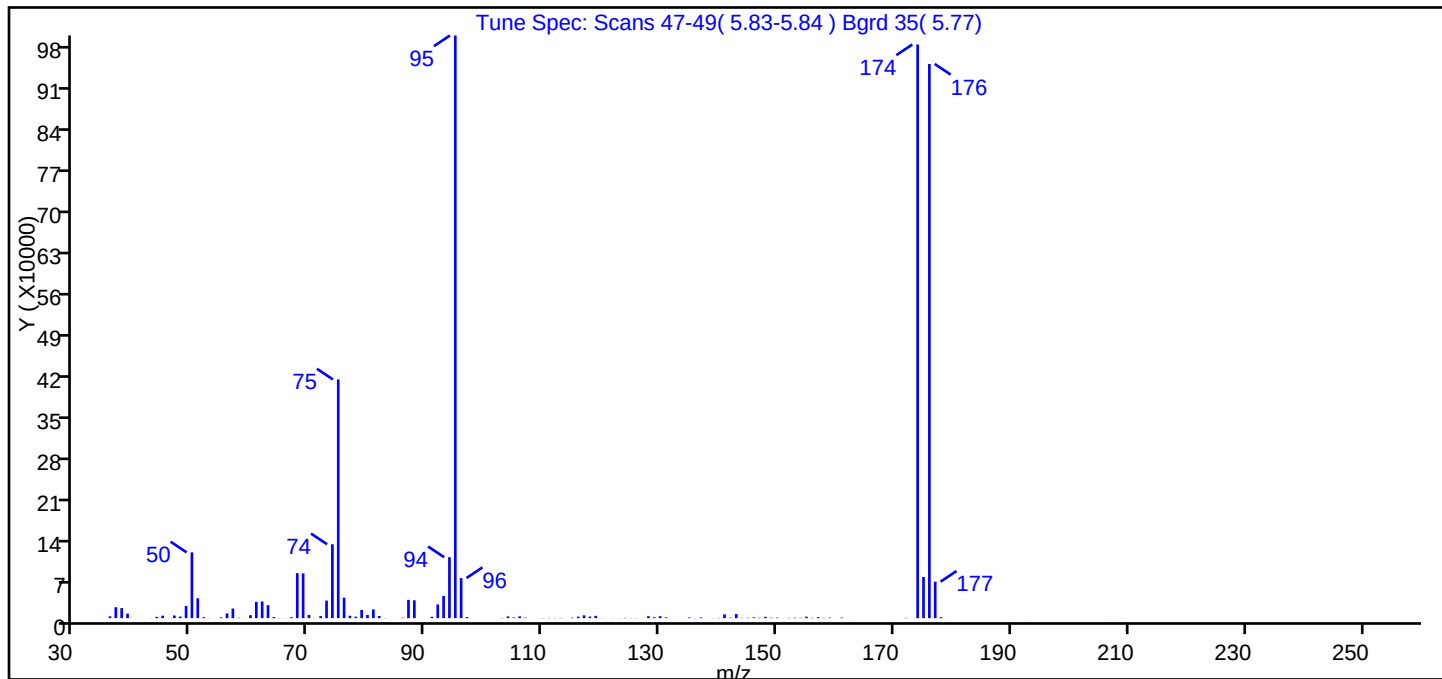
Processing Flags

s - Failed ISTD Recovery Test

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140411-7003.b\7003_001.D
Injection Date: 11-Apr-2014 11:58:30 Instrument ID: CHB.i
Lims ID: BFB
Client ID:
Operator ID: pad ALS Bottle#: 1 Worklist Smp#: 1
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_LLNJ_TO3 Limit Group: AI_TO15_ICAL
Tune Method: BFB Method TO-15

13 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	11.30
75	30.00 - 66.00% of mass 95	41.00
96	5.00 - 9.00% of mass 95	6.90
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	98.50
175	4.00 - 9.00% of mass 174	7.10 (7.20)
176	93.00 - 101.00% of mass 174	95.10 (96.60)
177	5.00 - 9.00% of mass 176	6.30 (6.60)

Data File: \\Btv-lims1\chromdata\CHB.i\20140411-7003.b\7003_001.D\TO15_LL NJ_TO3.rslt\spectra.d
Injection Date: 11-Apr-2014 11:58:30
Spectrum: Tune Spec: Scans 47-49(5.83-5.84) Bgrd 35(5.77)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 126

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3091	72.00	3420	113.00	379	148.00	2300
37.00	18632	73.00	29872	115.00	772	149.00	650
38.00	17112	74.00	125856	116.00	2553	150.00	1006
39.00	7619	75.00	406528	117.00	4859	151.00	35
41.00	79	76.00	34880	118.00	2693	152.00	486
43.00	175	77.00	4028	119.00	3895	153.00	834
44.00	2233	78.00	2533	120.00	172	154.00	545
45.00	4269	79.00	13851	122.00	187	155.00	2449
46.00	113	80.00	5364	123.00	232	156.00	568
47.00	4474	81.00	14893	124.00	501	157.00	1799
48.00	2725	82.00	3704	125.00	261	158.00	424
49.00	20664	83.00	375	126.00	312	159.00	982
50.00	112040	86.00	708	127.00	126	161.00	932
51.00	33896	87.00	31104	128.00	3320	162.00	36
52.00	1615	88.00	30408	129.00	1572	163.00	36
53.00	169	89.00	34	130.00	3391	170.00	41
55.00	1335	91.00	2239	131.00	1367	172.00	543
56.00	8013	92.00	23240	132.00	196	174.00	976960
57.00	16368	93.00	37808	134.00	100	175.00	70072
58.00	610	94.00	103800	135.00	1173	176.00	943808
60.00	5080	95.00	992320	136.00	228	177.00	62112
61.00	27736	96.00	68272	137.00	1166	178.00	1679
62.00	28472	97.00	1940	138.00	34	179.00	41
63.00	22136	103.00	351	139.00	238	190.00	114
64.00	1949	104.00	2903	140.00	409	191.00	25
65.00	270	105.00	1162	141.00	6411	193.00	77
66.00	138	106.00	3061	142.00	784	207.00	99
67.00	1648	107.00	809	143.00	6910	208.00	57
68.00	76704	109.00	37	144.00	485	209.00	197
69.00	76208	110.00	269	145.00	616	260.00	21
70.00	5619	111.00	486	146.00	1274		
71.00	182	112.00	327	147.00	695		

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 480-57563-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 200-70664/4

Matrix: Air Lab File ID: 7003_004.D

Analysis Method: TO-15 Date Collected: _____

Sample wt/vol: 200 (mL) Date Analyzed: 04/11/2014 14:31

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)

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

Analysis Batch No.: 70664 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.20
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.20
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.20
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.20
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		0.50	0.50
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.20
106-93-4	1,2-Dibromoethane	187.87	ND		0.20	0.20
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.20
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.20
540-59-0	1,2-Dichloroethene, Total	96.94	ND		0.20	0.20
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.20
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		0.20	0.20
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.20
106-99-0	1,3-Butadiene	54.09	ND		0.20	0.20
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.20
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.20
123-91-1	1,4-Dioxane	88.11	ND		5.0	5.0
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.20	0.20
95-49-8	2-Chlorotoluene	126.59	ND		0.20	0.20
107-05-1	3-Chloropropene	76.53	ND		0.50	0.50
622-96-8	4-Ethyltoluene	120.20	ND		0.20	0.20
67-64-1	Acetone	58.08	ND		5.0	5.0
71-43-2	Benzene	78.11	ND		0.20	0.20
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.20
593-60-2	Bromoethene (Vinyl Bromide)	106.96	ND		0.20	0.20
75-25-2	Bromoform	252.75	ND		0.20	0.20
74-83-9	Bromomethane	94.94	ND		0.20	0.20
75-15-0	Carbon disulfide	76.14	ND		0.50	0.50
56-23-5	Carbon tetrachloride	153.81	ND		0.20	0.20
108-90-7	Chlorobenzene	112.56	ND		0.20	0.20
75-00-3	Chloroethane	64.52	ND		0.50	0.50
67-66-3	Chloroform	119.38	ND		0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 480-57563-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 200-70664/4

Matrix: Air Lab File ID: 7003_004.D

Analysis Method: TO-15 Date Collected: _____

Sample wt/vol: 200 (mL) Date Analyzed: 04/11/2014 14:31

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)

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

Analysis Batch No.: 70664 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
74-87-3	Chloromethane	50.49	ND		0.50	0.50
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.20
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.20
110-82-7	Cyclohexane	84.16	ND		0.20	0.20
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.20
75-71-8	Dichlorodifluoromethane	120.91	ND		0.50	0.50
100-41-4	Ethylbenzene	106.17	ND		0.20	0.20
76-13-1	Freon TF	187.38	ND		0.20	0.20
87-68-3	Hexachlorobutadiene	260.76	ND		0.20	0.20
67-63-0	Isopropyl alcohol	60.10	ND		5.0	5.0
179601-23-1	m,p-Xylene	106.17	ND		0.50	0.50
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	ND		0.50	0.50
78-93-3	Methyl Ethyl Ketone	72.11	ND		0.50	0.50
108-10-1	methyl isobutyl ketone	100.16	ND		0.50	0.50
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.20	0.20
75-09-2	Methylene Chloride	84.93	ND		0.50	0.50
142-82-5	n-Heptane	100.21	ND		0.20	0.20
110-54-3	n-Hexane	86.17	ND		0.20	0.20
100-42-5	Styrene	104.15	ND		0.20	0.20
75-65-0	tert-Butyl alcohol	74.12	ND		5.0	5.0
127-18-4	Tetrachloroethene	165.83	ND		0.20	0.20
109-99-9	Tetrahydrofuran	72.11	ND		5.0	5.0
108-88-3	Toluene	92.14	ND		0.20	0.20
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.20
79-01-6	Trichloroethene	131.39	ND		0.20	0.20
75-69-4	Trichlorofluoromethane	137.37	ND		0.20	0.20
75-01-4	Vinyl chloride	62.50	ND		0.20	0.20
1330-20-7	Xylene (total)	106.17	ND		0.20	0.20
95-47-6	Xylene, o-	106.17	ND		0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 480-57563-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 200-70664/4

Matrix: Air Lab File ID: 7003_004.D

Analysis Method: TO-15 Date Collected: _____

Sample wt/vol: 200 (mL) Date Analyzed: 04/11/2014 14:31

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)

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

Analysis Batch No.: 70664 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	1.1
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	1.4
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	1.1
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.81
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.79
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		3.7	3.7
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.98
106-93-4	1,2-Dibromoethane	187.87	ND		1.5	1.5
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	1.2
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.81
540-59-0	1,2-Dichloroethene, Total	96.94	ND		0.79	0.79
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.92
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	ND		1.4	1.4
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.98
106-99-0	1,3-Butadiene	54.09	ND		0.44	0.44
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	1.2
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	1.2
123-91-1	1,4-Dioxane	88.11	ND		18	18
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.93	0.93
95-49-8	2-Chlorotoluene	126.59	ND		1.0	1.0
107-05-1	3-Chloropropene	76.53	ND		1.6	1.6
622-96-8	4-Ethyltoluene	120.20	ND		0.98	0.98
67-64-1	Acetone	58.08	ND		12	12
71-43-2	Benzene	78.11	ND		0.64	0.64
75-27-4	Bromodichloromethane	163.83	ND		1.3	1.3
593-60-2	Bromoethene (Vinyl Bromide)	106.96	ND		0.87	0.87
75-25-2	Bromoform	252.75	ND		2.1	2.1
74-83-9	Bromomethane	94.94	ND		0.78	0.78
75-15-0	Carbon disulfide	76.14	ND		1.6	1.6
56-23-5	Carbon tetrachloride	153.81	ND		1.3	1.3
108-90-7	Chlorobenzene	112.56	ND		0.92	0.92
75-00-3	Chloroethane	64.52	ND		1.3	1.3
67-66-3	Chloroform	119.38	ND		0.98	0.98

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 480-57563-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 200-70664/4

Matrix: Air Lab File ID: 7003_004.D

Analysis Method: TO-15 Date Collected: _____

Sample wt/vol: 200 (mL) Date Analyzed: 04/11/2014 14:31

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)

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

Analysis Batch No.: 70664 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
74-87-3	Chloromethane	50.49	ND		1.0	1.0
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.79
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.91
110-82-7	Cyclohexane	84.16	ND		0.69	0.69
124-48-1	Dibromochloromethane	208.29	ND		1.7	1.7
75-71-8	Dichlorodifluoromethane	120.91	ND		2.5	2.5
100-41-4	Ethylbenzene	106.17	ND		0.87	0.87
76-13-1	Freon TF	187.38	ND		1.5	1.5
87-68-3	Hexachlorobutadiene	260.76	ND		2.1	2.1
67-63-0	Isopropyl alcohol	60.10	ND		12	12
179601-23-1	m,p-Xylene	106.17	ND		2.2	2.2
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	ND		2.0	2.0
78-93-3	Methyl Ethyl Ketone	72.11	ND		1.5	1.5
108-10-1	methyl isobutyl ketone	100.16	ND		2.0	2.0
1634-04-4	Methyl tert-butyl ether	88.15	ND		0.72	0.72
75-09-2	Methylene Chloride	84.93	ND		1.7	1.7
142-82-5	n-Heptane	100.21	ND		0.82	0.82
110-54-3	n-Hexane	86.17	ND		0.70	0.70
100-42-5	Styrene	104.15	ND		0.85	0.85
75-65-0	tert-Butyl alcohol	74.12	ND		15	15
127-18-4	Tetrachloroethene	165.83	ND		1.4	1.4
109-99-9	Tetrahydrofuran	72.11	ND		15	15
108-88-3	Toluene	92.14	ND		0.75	0.75
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.79
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.91
79-01-6	Trichloroethene	131.39	ND		1.1	1.1
75-69-4	Trichlorofluoromethane	137.37	ND		1.1	1.1
75-01-4	Vinyl chloride	62.50	ND		0.51	0.51
1330-20-7	Xylene (total)	106.17	ND		0.87	0.87
95-47-6	Xylene, o-	106.17	ND		0.87	0.87

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\Btv-lims1\chromdata\CHB.i\20140411-7003.b\7003_004.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 11-Apr-2014 14:31:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 200-0007003-004
 Misc. Info.: mb
 Operator ID: pad Instrument ID: CHB.i
 Method: \\Btv-lims1\chromdata\CHB.i\20140411-7003.b\TO15_LLNJ_TO3.m
 Limit Group: AI_TO15_ICAL
 Last Update: 14-Apr-2014 11:42:40 Calib Date: 14-Mar-2014 18:16:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal/External Standard Quant By: Initial Calibration
 Last ICal File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: daiglep

Date: 14-Apr-2014 09:50:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Difluoroethane TIC	51		3.150					
2 Chlorotrifluoroethene TIC	116		3.162					
4 Propene	41		3.170					
3 Freon 115 TIC	85		3.180					
5 Dichlorodifluoromethane	85		3.235					
6 Chlorodifluoromethane	51		3.272					
7 1,2-Dichloro-1,1,2,2-tetra	85		3.464					
8 Chloromethane	50		3.603					
9 Butane	43		3.784					
10 Vinyl chloride	62		3.832					
11 Butadiene	54		3.902					
12 Bromomethane	94		4.622					
14 Chloroethane	64		4.868					
15 2-Methylbutane	43		4.937					
16 Vinyl bromide	106		5.295					
17 Trichlorofluoromethane	101		5.385					
18 Pentane	43		5.519					
19 Ethanol	45		5.882					
21 Ethyl ether	59		6.015					
22 Acrolein	56		6.426					
20 1,1,1-Trifluoro-2,2-dichlo	83		6.430					
23 1,1,2-Trichloro-1,2,2-trif	101		6.437					
24 1,1-Dichloroethene	96		6.522					
25 Acetone	43		6.709					
26 Isopropyl alcohol	45		6.906					
27 Carbon disulfide	76		6.949					
28 Methyl Acetate TIC	43		7.200					
29 3-Chloro-1-propene	41		7.248					
30 Acetonitrile	41		7.365					
31 Methylene Chloride	49		7.515					
32 2-Methyl-2-propanol	59		7.616					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
33 Methyl tert-butyl ether	73		7.840					
34 trans-1,2-Dichloroethene	61		7.910					
35 Acrylonitrile	53		8.038					
36 Hexane	57		8.219					
* 44 Chlorobromomethane	128	9.959	9.959	0.000	65	764477	10.0	
37 1,1-Dichloroethane	63		8.678					
38 Vinyl acetate	43		8.684					
41 Ethyl acetate	88		9.585					
39 cis-1,2-Dichloroethene	96		9.585					
40 2-Butanone (MEK)	72		9.591					
43 Tetrahydrofuran	42		9.954					
S 42 1,2-Dichloroethene, Total	61		10.000					
45 Chloroform	83		10.028					
46 Cyclohexane	84		10.269					
47 1,1,1-Trichloroethane	97		10.279					
48 Carbon tetrachloride	117		10.471					
49 Isooctane	57		10.744					
50 Benzene	78		10.813					
51 1,2-Dichloroethane	62		10.930					
52 n-Heptane	43		10.989					
A 53 GRO	1	11.029	(4.927-17.131)		0	394714	0	
* 54 1,4-Difluorobenzene	114	11.357	11.357	0.000	91	3697150	10.0	
55 Methyl cyclohexane TIC	55		11.500					
56 n-Butanol	56		11.533					
57 Trichloroethene	95		11.715					
58 1,2-Dichloropropane	63		12.110					
59 Methyl methacrylate	69		12.136					
60 1,4-Dioxane	88		12.227					
61 Dibromomethane	174		12.297					
62 Dichlorobromomethane	83		12.462					
A 63 TVOC as Toluene	1	12.700	(3.160-22.239)		0	528531	2.31	
64 cis-1,3-Dichloropropene	75		13.092					
65 4-Methyl-2-pentanone (MIBK)	43		13.247					
A 66 C8 Range	1	13.468	(13.421-13.501)		0	587	NC	
67 n-Octane	43		13.471					
68 Toluene	92		13.519					
A 69 Toluene Range	1	13.534	(13.509-13.559)		0	4557	NC	
70 trans-1,3-Dichloropropene	75		13.892					
71 1,1,2-Trichloroethane	83		14.165					
72 Tetrachloroethene	166		14.271					
73 2-Hexanone	43		14.415					
74 Chlorodibromomethane	129		14.704					
75 Ethylene Dibromide	107		14.906					
* 76 Chlorobenzene-d5	117	15.445	15.445	0.000	79	3188761	10.0	
77 Chlorobenzene	112		15.488					
78 n-Nonane	57		15.541					
79 Ethylbenzene	91		15.547					
80 m-Xylene & p-Xylene	106		15.691					
S 81 Xylenes, Total	106		16.000					
82 o-Xylene	106		16.198					
83 Styrene	104		16.225					
84 Bromoform	173		16.523					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
85 Isopropylbenzene	105		16.603					
\$ 86 4-Bromofluorobenzene	95	16.865	16.865	0.000	97	1816723	NC	
87 1,1,2,2-Tetrachloroethane	83		17.020					
88 N-Propylbenzene	91		17.078					
89 1,2,3-Trichloropropane	75		17.105					
90 n-Decane	57		17.121					
91 4-Ethyltoluene	105		17.201					
92 2-Chlorotoluene	91		17.249					
93 1,3,5-Trimethylbenzene	105		17.271					
94 Alpha Methyl Styrene	118		17.548					
95 tert-Butylbenzene	119		17.650					
96 1,2,4-Trimethylbenzene	105		17.724					
97 sec-Butylbenzene	105		17.911					
98 4-Isopropyltoluene	119		18.071					
99 1,3-Dichlorobenzene	146		18.151					
100 1,4-Dichlorobenzene	146		18.269					
101 Benzyl chloride	91		18.434					
102 Undecane	57		18.530					
103 n-Butylbenzene	91		18.589					
104 1,2-Dichlorobenzene	146		18.770					
105 1,2-Dibromo-3-Chloropropan	75		19.300					
106 Dodecane	57		20.035					
107 1,2,4-Trichlorobenzene	180		21.215					
108 Hexachlorobutadiene	225		21.375					
109 Naphthalene	128		21.738					
110 1,2,3-Trichlorobenzene	180		22.229					
111 Total Alkanes	1		0.000					

Report Date: 14-Apr-2014 11:42:43

Chrom Revision: 2.2 10-Apr-2014 15:11:30

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140411-7003.b\7003_004.D

Injection Date: 11-Apr-2014 14:31:30

Instrument ID: CHB.i

Operator ID: pad

Lims ID: MB

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

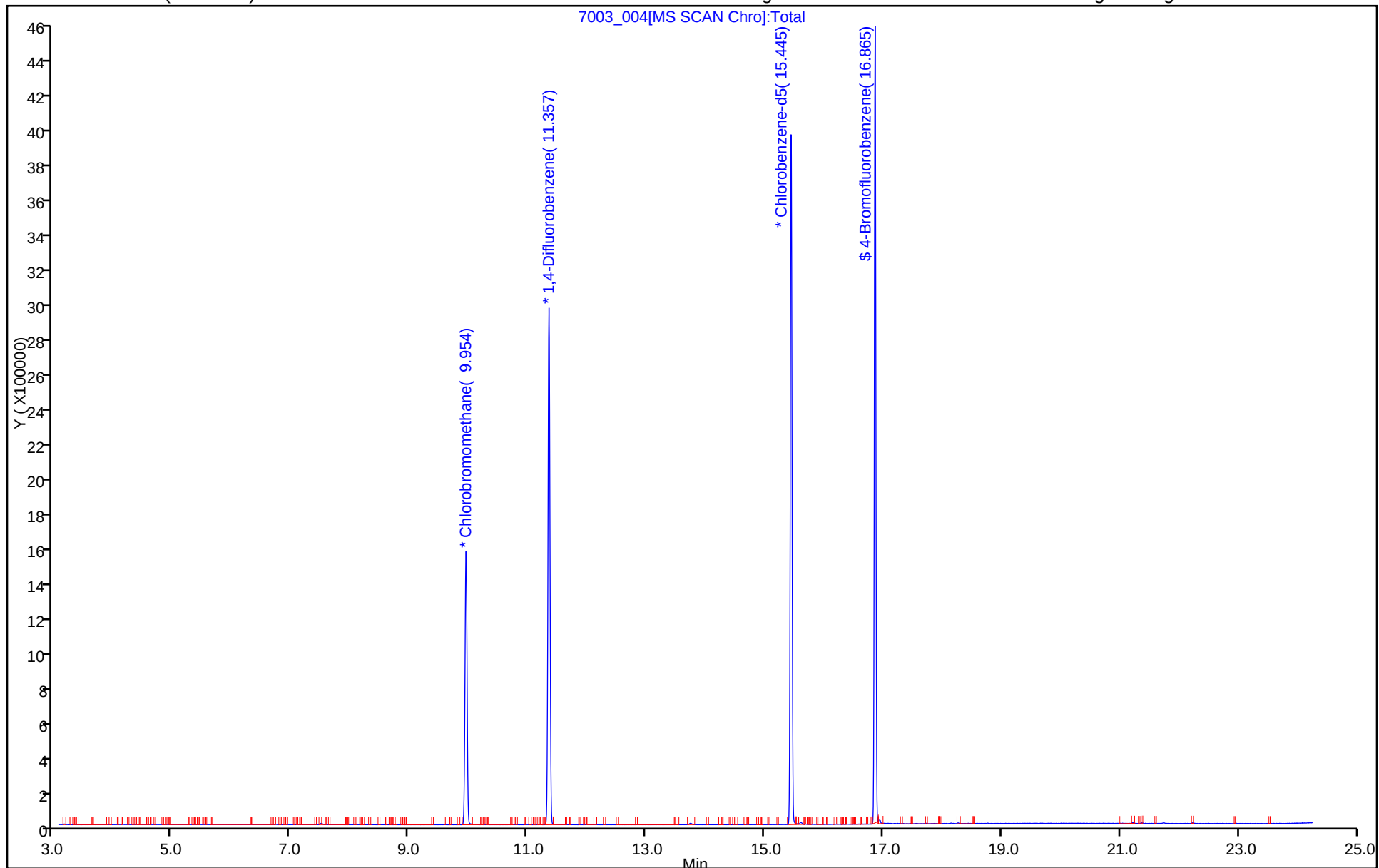
ALS Bottle#: 3

Method: TO15_LLNJ_TO3

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 480-57563-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 200-70664/3

Matrix: Air Lab File ID: 7003_003.D

Analysis Method: TO-15 Date Collected: _____

Sample wt/vol: 200 (mL) Date Analyzed: 04/11/2014 13:39

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)

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

Analysis Batch No.: 70664 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
71-55-6	1,1,1-Trichloroethane	133.41	9.88		0.20	0.20
79-34-5	1,1,2,2-Tetrachloroethane	167.85	9.40		0.20	0.20
79-00-5	1,1,2-Trichloroethane	133.41	9.32		0.20	0.20
75-34-3	1,1-Dichloroethane	98.96	8.61		0.20	0.20
75-35-4	1,1-Dichloroethene	96.94	8.77		0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	181.45	9.08		0.50	0.50
95-63-6	1,2,4-Trimethylbenzene	120.20	9.31		0.20	0.20
106-93-4	1,2-Dibromoethane	187.87	9.64		0.20	0.20
95-50-1	1,2-Dichlorobenzene	147.00	9.54		0.20	0.20
107-06-2	1,2-Dichloroethane	98.96	9.79		0.20	0.20
540-59-0	1,2-Dichloroethene, Total	96.94	18.5		0.20	0.20
78-87-5	1,2-Dichloropropane	112.99	9.07		0.20	0.20
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	9.41		0.20	0.20
108-67-8	1,3,5-Trimethylbenzene	120.20	9.57		0.20	0.20
106-99-0	1,3-Butadiene	54.09	7.99		0.20	0.20
541-73-1	1,3-Dichlorobenzene	147.00	9.55		0.20	0.20
106-46-7	1,4-Dichlorobenzene	147.00	9.63		0.20	0.20
123-91-1	1,4-Dioxane	88.11	8.71		5.0	5.0
540-84-1	2,2,4-Trimethylpentane	114.23	9.31		0.20	0.20
95-49-8	2-Chlorotoluene	126.59	9.44		0.20	0.20
107-05-1	3-Chloropropene	76.53	8.01		0.50	0.50
622-96-8	4-Ethyltoluene	120.20	9.80		0.20	0.20
67-64-1	Acetone	58.08	9.79		5.0	5.0
71-43-2	Benzene	78.11	9.11		0.20	0.20
75-27-4	Bromodichloromethane	163.83	9.55		0.20	0.20
593-60-2	Bromoethene (Vinyl Bromide)	106.96	8.62		0.20	0.20
75-25-2	Bromoform	252.75	9.66		0.20	0.20
74-83-9	Bromomethane	94.94	8.46		0.20	0.20
75-15-0	Carbon disulfide	76.14	10.2		0.50	0.50
56-23-5	Carbon tetrachloride	153.81	9.53		0.20	0.20
108-90-7	Chlorobenzene	112.56	9.38		0.20	0.20
75-00-3	Chloroethane	64.52	8.78		0.50	0.50
67-66-3	Chloroform	119.38	9.23		0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 480-57563-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 200-70664/3

Matrix: Air Lab File ID: 7003_003.D

Analysis Method: TO-15 Date Collected: _____

Sample wt/vol: 200 (mL) Date Analyzed: 04/11/2014 13:39

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)

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

Analysis Batch No.: 70664 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
74-87-3	Chloromethane	50.49	7.99		0.50	0.50
156-59-2	cis-1,2-Dichloroethene	96.94	8.84		0.20	0.20
10061-01-5	cis-1,3-Dichloropropene	110.97	9.58		0.20	0.20
110-82-7	Cyclohexane	84.16	9.60		0.20	0.20
124-48-1	Dibromochloromethane	208.29	9.61		0.20	0.20
75-71-8	Dichlorodifluoromethane	120.91	9.05		0.50	0.50
100-41-4	Ethylbenzene	106.17	9.45		0.20	0.20
76-13-1	Freon TF	187.38	8.87		0.20	0.20
87-68-3	Hexachlorobutadiene	260.76	8.94		0.20	0.20
67-63-0	Isopropyl alcohol	60.10	8.09		5.0	5.0
179601-23-1	m,p-Xylene	106.17	19.1		0.50	0.50
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	9.34		0.50	0.50
78-93-3	Methyl Ethyl Ketone	72.11	8.42		0.50	0.50
108-10-1	methyl isobutyl ketone	100.16	9.44		0.50	0.50
1634-04-4	Methyl tert-butyl ether	88.15	9.19		0.20	0.20
75-09-2	Methylene Chloride	84.93	8.88		0.50	0.50
142-82-5	n-Heptane	100.21	8.99		0.20	0.20
110-54-3	n-Hexane	86.17	9.36		0.20	0.20
100-42-5	Styrene	104.15	9.47		0.20	0.20
75-65-0	tert-Butyl alcohol	74.12	8.65		5.0	5.0
127-18-4	Tetrachloroethene	165.83	9.32		0.20	0.20
109-99-9	Tetrahydrofuran	72.11	10.0		5.0	5.0
108-88-3	Toluene	92.14	9.30		0.20	0.20
156-60-5	trans-1,2-Dichloroethene	96.94	9.64		0.20	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	9.75		0.20	0.20
79-01-6	Trichloroethene	131.39	9.18		0.20	0.20
75-69-4	Trichlorofluoromethane	137.37	9.01		0.20	0.20
75-01-4	Vinyl chloride	62.50	7.98		0.20	0.20
1330-20-7	Xylene (total)	106.17	28.5		0.20	0.20
95-47-6	Xylene, o-	106.17	9.35		0.20	0.20

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\Btv-lims1\chromdata\CHB.i\20140411-7003.b\7003_003.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 11-Apr-2014 13:39:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 200-0007003-003
 Misc. Info.: lcs
 Operator ID: pad Instrument ID: CHB.i
 Method: \\Btv-lims1\chromdata\CHB.i\20140411-7003.b\TO15_LLNJ_TO3.m
 Limit Group: AI_TO15_ICAL
 Last Update: 14-Apr-2014 11:42:40 Calib Date: 14-Mar-2014 18:16:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal/External Standard Quant By: Initial Calibration
 Last ICal File: \\Btv-lims1\chromdata\CHB.i\20140314-6557.b\6557_010.D
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: daiglep

Date: 11-Apr-2014 14:26:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
4 Propene	41	3.176	3.170	0.006	95	114444	10.0	8.29	
5 Dichlorodifluoromethane	85	3.234	3.235	-0.001	88	1046686	10.0	9.05	
6 Chlorodifluoromethane	51	3.277	3.272	0.005	74	360945	10.0	8.40	
7 1,2-Dichloro-1,1,2,2-tetra	85	3.464	3.464	0.000	91	1045451	10.0	9.41	
8 Chloromethane	50	3.608	3.603	0.005	88	171117	10.0	7.99	
9 Butane	43	3.784	3.784	0.000	92	294380	10.0	8.25	
10 Vinyl chloride	62	3.832	3.832	0.000	88	291887	10.0	7.98	
11 Butadiene	54	3.902	3.902	0.000	90	195816	10.0	7.99	
12 Bromomethane	94	4.627	4.622	0.005	99	600451	10.0	8.46	
13 BFB									
14 Chloroethane	64	4.873	4.868	0.005	98	244252	10.0	8.78	
15 2-Methylbutane	43	4.942	4.937	0.005	87	363180	10.0	8.87	
16 Vinyl bromide	106	5.295	5.295	-0.001	97	702217	10.0	8.62	
17 Trichlorofluoromethane	101	5.385	5.385	0.000	85	1820226	10.0	9.01	
18 Pentane	43	5.519	5.519	0.000	95	705668	10.0	9.86	
19 Ethanol	45	5.887	5.882	0.005	99	242659	15.0	13.6	
21 Ethyl ether	59	6.015	6.015	0.000	88	410837	10.0	9.70	
22 Acrolein	56	6.431	6.426	0.005	38	181629	10.0	10.4	
23 1,1,2-Trichloro-1,2,2-trif	101	6.437	6.437	0.000	96	1564337	10.0	8.87	
24 1,1-Dichloroethene	96	6.522	6.522	0.000	79	760042	10.0	8.77	
25 Acetone	43	6.714	6.709	0.005	90	628529	10.0	9.79	
26 Isopropyl alcohol	45	6.912	6.906	0.006	98	464032	10.0	8.09	
27 Carbon disulfide	76	6.954	6.949	0.005	97	1983222	10.0	10.2	
29 3-Chloro-1-propene	41	7.248	7.248	0.000	82	458680	10.0	8.01	
30 Acetonitrile	41	7.365	7.365	0.000	99	271782	10.0	9.60	
31 Methylene Chloride	49	7.520	7.515	0.005	70	470760	10.0	8.88	
32 2-Methyl-2-propanol	59	7.616	7.616	0.000	96	936295	10.0	8.65	
33 Methyl tert-butyl ether	73	7.846	7.840	0.006	94	1954925	10.0	9.19	
34 trans-1,2-Dichloroethene	61	7.915	7.910	0.005	74	835613	10.0	9.64	
35 Acrylonitrile	53	8.038	8.038	0.000	95	349482	10.0	9.13	
36 Hexane	57	8.224	8.219	0.005	85	840687	10.0	9.36	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
* 44 Chlorobromomethane	128	9.959	9.959	0.000	65	792133	10.0	10.0	
37 1,1-Dichloroethane	63	8.678	8.678	0.000	99	1032220	10.0	8.61	
38 Vinyl acetate	43	8.683	8.684	-0.001	98	1000853	10.0	9.28	
41 Ethyl acetate	88	9.585	9.585	0.000	89	70704	10.0	10.1	
39 cis-1,2-Dichloroethene	96	9.585	9.585	0.000	71	849543	10.0	8.84	
40 2-Butanone (MEK)	72	9.591	9.591	0.000	99	332482	10.0	8.42	
43 Tetrahydrofuran	42	9.954	9.954	0.000	68	413186	10.0	10.0	
S 42 1,2-Dichloroethene, Total	61				0		20.0	18.5	
45 Chloroform	83	10.028	10.028	0.000	90	1535088	10.0	9.23	
46 Cyclohexane	84	10.269	10.269	-0.001	71	1067468	10.0	9.60	
47 1,1,1-Trichloroethane	97	10.279	10.279	0.000	93	1709535	10.0	9.88	
48 Carbon tetrachloride	117	10.471	10.471	0.000	97	1849279	10.0	9.53	
49 Isooctane	57	10.743	10.744	-0.001	98	2625494	10.0	9.31	
50 Benzene	78	10.813	10.813	0.000	83	2248746	10.0	9.11	
51 1,2-Dichloroethane	62	10.936	10.930	0.006	93	821472	10.0	9.79	
52 n-Heptane	43	10.994	10.989	0.005	76	729545	10.0	8.99	
A 53 GRO	1	11.029	(4.927-17.131)		0	265368618	10.0	0	
* 54 1,4-Difluorobenzene	114	11.363	11.357	0.006	91	3780025	10.0	10.0	
56 n-Butanol	56	11.539	11.533	0.006	80	273916	10.0	9.08	
57 Trichloroethene	95	11.715	11.715	0.000	93	1129914	10.0	9.18	
58 1,2-Dichloropropane	63	12.110	12.110	0.000	87	651049	10.0	9.07	
59 Methyl methacrylate	69	12.136	12.136	0.000	74	733529	10.0	9.87	
60 1,4-Dioxane	88	12.227	12.227	0.000	80	353181	10.0	8.71	
61 Dibromomethane	174	12.297	12.297	0.000	91	1204393	10.0	9.37	
62 Dichlorobromomethane	83	12.467	12.462	0.005	94	1687380	10.0	9.55	
A 63 TVOC as Toluene	1	12.700	(3.160-22.239)		0	469748865	10.0	2007.3	
64 cis-1,3-Dichloropropene	75	13.092	13.092	0.000	80	1233583	10.0	9.58	
65 4-Methyl-2-pentanone (MIBK)	43	13.247	13.247	-0.001	87	939833	10.0	9.44	
A 66 C8 Range	1	13.451	(13.421-13.501)		0	5392931	NC	NC	
67 n-Octane	43	13.471	13.471	0.000	75	1007095	10.0	9.15	
68 Toluene	92	13.519	13.519	0.000	91	1894702	10.0	9.30	
A 69 Toluene Range	1	13.534	(13.509-13.559)		0	6993143	NC	NC	
70 trans-1,3-Dichloropropene	75	13.892	13.892	0.000	90	1292194	10.0	9.75	
71 1,1,2-Trichloroethane	83	14.164	14.165	-0.001	92	840362	10.0	9.32	
72 Tetrachloroethene	166	14.271	14.271	0.000	90	1873866	10.0	9.32	
73 2-Hexanone	43	14.415	14.415	0.000	86	917696	10.0	9.34	
74 Chlorodibromomethane	129	14.703	14.704	-0.001	97	2113391	10.0	9.61	
75 Ethylene Dibromide	107	14.906	14.906	0.000	98	1846644	10.0	9.64	
* 76 Chlorobenzene-d5	117	15.451	15.445	0.006	71	3290507	10.0	10.0	
77 Chlorobenzene	112	15.488	15.488	0.000	84	2838398	10.0	9.38	
78 n-Nonane	57	15.541	15.541	0.000	62	1186062	10.0	9.06	
79 Ethylbenzene	91	15.547	15.547	0.000	68	3871075	10.0	9.45	
80 m-Xylene & p-Xylene	106	15.691	15.691	0.000	98	3436819	20.0	19.1	
S 81 Xylenes, Total	106				0		30.0	28.4	
82 o-Xylene	106	16.198	16.198	0.000	95	1745050	10.0	9.35	
83 Styrene	104	16.224	16.225	-0.001	97	2698370	10.0	9.47	
84 Bromoform	173	16.523	16.523	0.000	98	2084857	10.0	9.66	
85 Isopropylbenzene	105	16.603	16.603	0.000	93	5045268	10.0	9.53	
\$ 86 4-Bromofluorobenzene	95	16.865	16.865	0.000	96	2111214	NC	NC	
87 1,1,2,2-Tetrachloroethane	83	17.020	17.020	0.000	93	2211652	10.0	9.40	
88 N-Propylbenzene	91	17.078	17.078	0.000	98	5582818	10.0	9.53	
89 1,2,3-Trichloropropane	75	17.105	17.105	0.000	83	1516943	10.0	9.84	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
90 n-Decane	57	17.121	17.121	0.000	77	1584698	10.0	10.0	
91 4-Ethyltoluene	105	17.201	17.201	0.000	67	5214925	10.0	9.80	
92 2-Chlorotoluene	91	17.249	17.249	0.000	94	3809542	10.0	9.44	
93 1,3,5-Trimethylbenzene	105	17.271	17.271	0.000	94	4232963	10.0	9.57	
94 Alpha Methyl Styrene	118	17.548	17.548	0.000	90	2363774	10.0	10.1	
95 tert-Butylbenzene	119	17.655	17.650	0.005	92	4242885	10.0	9.46	
96 1,2,4-Trimethylbenzene	105	17.724	17.724	0.000	75	4260258	10.0	9.31	
97 sec-Butylbenzene	105	17.916	17.911	0.005	99	6147820	10.0	9.39	
98 4-Isopropyltoluene	119	18.071	18.071	0.000	84	5348561	10.0	9.50	
99 1,3-Dichlorobenzene	146	18.151	18.151	0.000	98	3233604	10.0	9.55	
100 1,4-Dichlorobenzene	146	18.269	18.269	0.000	97	3246932	10.0	9.63	
101 Benzyl chloride	91	18.434	18.434	0.000	97	3360762	10.0	9.12	
102 Undecane	57	18.530	18.530	0.000	86	1776578	10.0	10.4	
103 n-Butylbenzene	91	18.589	18.589	0.000	89	4369092	10.0	9.55	
104 1,2-Dichlorobenzene	146	18.770	18.770	0.000	99	3084506	10.0	9.54	
106 Dodecane	57	20.035	20.035	0.000	87	1507332	10.0	10.2	
107 1,2,4-Trichlorobenzene	180	21.220	21.215	0.005	93	2047266	10.0	9.08	
108 Hexachlorobutadiene	225	21.375	21.375	0.000	91	1617343	10.0	8.94	
109 Naphthalene	128	21.738	21.738	0.000	99	4674091	10.0	8.76	
110 1,2,3-Trichlorobenzene	180	22.229	22.229	0.000	96	1858956	10.0	9.61	

Report Date: 14-Apr-2014 11:42:42

Chrom Revision: 2.2 10-Apr-2014 15:11:30

TestAmerica Burlington

Data File: \\Btv-lims1\chromdata\CHB.i\20140411-7003.b\7003_003.D

Injection Date: 11-Apr-2014 13:39:30

Instrument ID: CHB.i

Operator ID: pad

Lims ID: LCS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

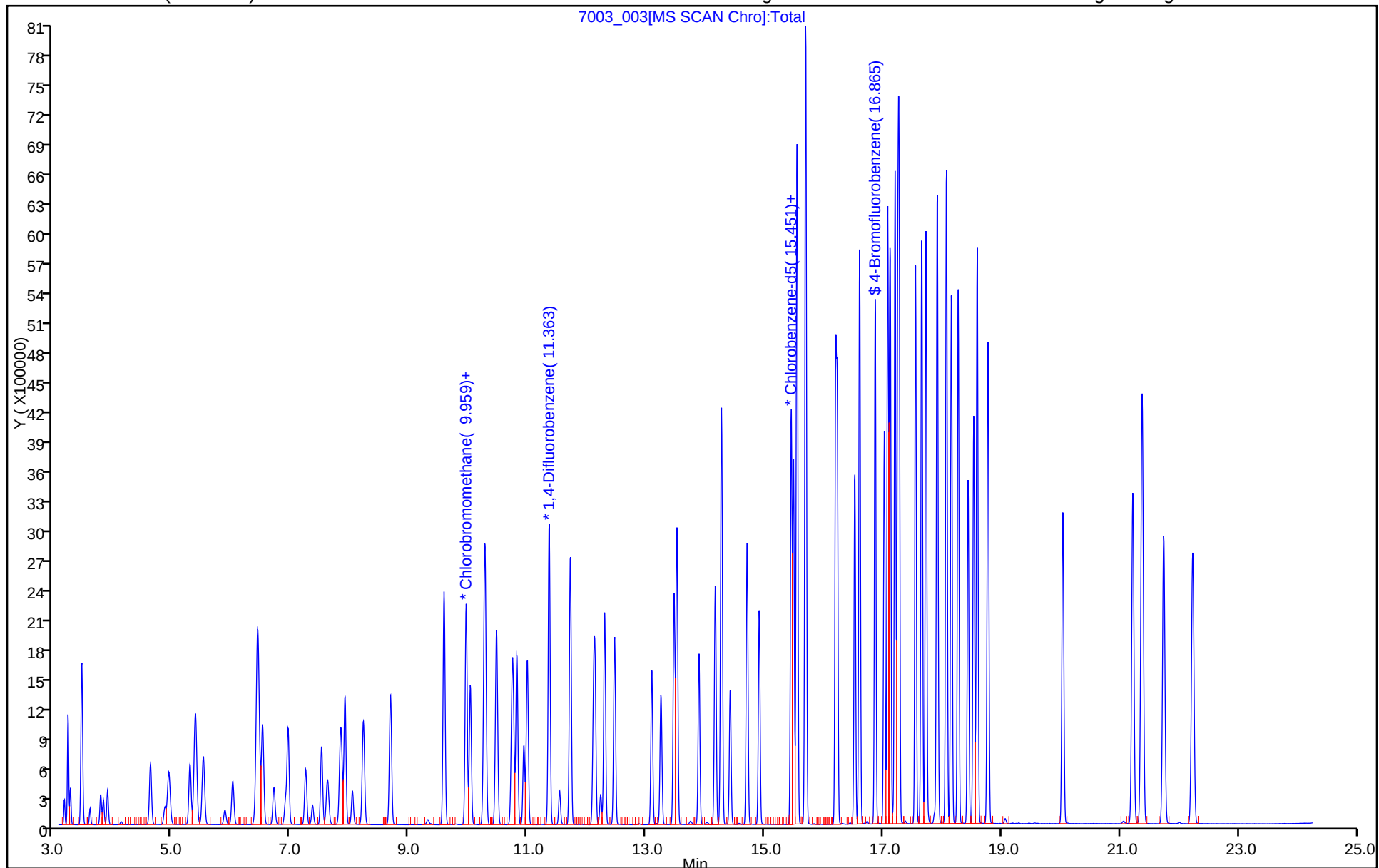
ALS Bottle#: 2

Method: TO15_LLNJ_TO3

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BurlingtonJob No.: 480-57563-1

SDG No.: _____

Instrument ID: CHB.iStart Date: 03/14/2014 10:21Analysis Batch Number: 69511End Date: 03/15/2014 04:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-69511/1		03/14/2014 10:21	1	6557_001.D	RTX-624 0.32 (mm)
VIBLK 200-69511/2		03/14/2014 11:18	1		RTX-624 0.32 (mm)
IC 200-69511/3		03/14/2014 12:11	1	6557_003.D	RTX-624 0.32 (mm)
IC 200-69511/4		03/14/2014 13:03	1	6557_004.D	RTX-624 0.32 (mm)
IC 200-69511/5		03/14/2014 13:55	1	6557_005.D	RTX-624 0.32 (mm)
IC 200-69511/6		03/14/2014 14:47	1	6557_006.D	RTX-624 0.32 (mm)
ICIS 200-69511/7		03/14/2014 15:39	1	6557_007.D	RTX-624 0.32 (mm)
IC 200-69511/8		03/14/2014 16:31	1	6557_008.D	RTX-624 0.32 (mm)
IC 200-69511/9		03/14/2014 17:24	1	6557_009.D	RTX-624 0.32 (mm)
IC 200-69511/10		03/14/2014 18:16	1	6557_010.D	RTX-624 0.32 (mm)
VIBLK 200-69511/11		03/14/2014 19:08	1		RTX-624 0.32 (mm)
VIBLK 200-69511/12		03/14/2014 20:01	1		RTX-624 0.32 (mm)
ICV 200-69511/13		03/14/2014 20:54	1	6557_013.D	RTX-624 0.32 (mm)
VIBLK 200-69511/14		03/14/2014 21:46	1		RTX-624 0.32 (mm)
ZZZZZ		03/14/2014 22:39	1		RTX-624 0.32 (mm)
ZZZZZ		03/14/2014 23:31	1		RTX-624 0.32 (mm)
ZZZZZ		03/15/2014 00:30	0.2		RTX-624 0.32 (mm)
ZZZZZ		03/15/2014 01:29	0.2		RTX-624 0.32 (mm)
ZZZZZ		03/15/2014 02:28	0.2		RTX-624 0.32 (mm)
ZZZZZ		03/15/2014 03:27	0.2		RTX-624 0.32 (mm)
ZZZZZ		03/15/2014 04:26	0.2		RTX-624 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BurlingtonJob No.: 480-57563-1

SDG No.: _____

Instrument ID: CHB.iStart Date: 04/11/2014 11:58Analysis Batch Number: 70664End Date: 04/12/2014 09:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-70664/1		04/11/2014 11:58	1	7003_001.D	RTX-624 0.32 (mm)
CCVIS 200-70664/2		04/11/2014 12:47	1	7003_002.D	RTX-624 0.32 (mm)
LCS 200-70664/3		04/11/2014 13:39	1	7003_003.D	RTX-624 0.32 (mm)
MB 200-70664/4		04/11/2014 14:31	1	7003_004.D	RTX-624 0.32 (mm)
ZZZZZ		04/11/2014 15:23	6.06		RTX-624 0.32 (mm)
ZZZZZ		04/11/2014 16:15	24.9		RTX-624 0.32 (mm)
ZZZZZ		04/11/2014 17:07	140		RTX-624 0.32 (mm)
ZZZZZ		04/11/2014 17:59	2030		RTX-624 0.32 (mm)
ZZZZZ		04/11/2014 18:51	10		RTX-624 0.32 (mm)
ZZZZZ		04/11/2014 19:43	10		RTX-624 0.32 (mm)
ZZZZZ		04/11/2014 20:35	10		RTX-624 0.32 (mm)
ZZZZZ		04/11/2014 21:27	10		RTX-624 0.32 (mm)
ZZZZZ		04/11/2014 22:19	10		RTX-624 0.32 (mm)
ZZZZZ		04/11/2014 23:11	10		RTX-624 0.32 (mm)
ZZZZZ		04/12/2014 00:04	1.5		RTX-624 0.32 (mm)
ZZZZZ		04/12/2014 00:56	1		RTX-624 0.32 (mm)
480-57563-21	AS Effluent 2Q14	04/12/2014 01:48	289	7003_017.D	RTX-624 0.32 (mm)
480-57563-22	LRP Effluent 2Q14	04/12/2014 02:40	4.55	7003_018.D	RTX-624 0.32 (mm)
ZZZZZ		04/12/2014 03:32	1		RTX-624 0.32 (mm)
ZZZZZ		04/12/2014 04:24	1		RTX-624 0.32 (mm)
ZZZZZ		04/12/2014 05:16	1		RTX-624 0.32 (mm)
ZZZZZ		04/12/2014 06:08	1		RTX-624 0.32 (mm)
ZZZZZ		04/12/2014 07:00	1		RTX-624 0.32 (mm)
ZZZZZ		04/12/2014 07:52	1		RTX-624 0.32 (mm)
ZZZZZ		04/12/2014 08:44	281		RTX-624 0.32 (mm)
ZZZZZ		04/12/2014 09:36	1		RTX-624 0.32 (mm)

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-21554-1
SDG No.: _____
Matrix: Air Level: Low Lab File ID: 6759_03.D
Lab ID: LCS 200-70021/3 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Propylene	10.0	8.60	86	70-130	
Dichlorodifluoromethane	10.0	9.73	97	70-130	
Freon 22	10.0	9.45	95	70-130	
1,2-Dichlorotetrafluoroethane	10.0	10.3	103	70-130	
Chloromethane	10.0	8.99	90	70-130	
n-Butane	10.0	8.98	90	70-130	
Vinyl chloride	10.0	8.43	84	70-130	
1,3-Butadiene	10.0	8.83	88	70-130	
Bromomethane	10.0	9.31	93	70-130	
Chloroethane	10.0	9.66	97	70-130	
Bromoethene (Vinyl Bromide)	10.0	9.27	93	70-130	
Trichlorofluoromethane	10.0	8.94	89	70-130	
Ethanol	15.0	13.9	93	70-130	
Freon TF	10.0	9.27	93	70-130	
1,1-Dichloroethene	10.0	9.32	93	70-130	
Acetone	10.0	9.26	93	70-130	
Isopropyl alcohol	10.0	8.60	86	70-130	
Carbon disulfide	10.0	11.0	110	70-130	
3-Chloropropene	10.0	8.24	82	70-130	
Methylene Chloride	10.0	9.14	91	70-130	
tert-Butyl alcohol	10.0	9.34	93	70-130	
Methyl tert-butyl ether	10.0	9.36	94	70-130	
trans-1,2-Dichloroethene	10.0	9.77	98	70-130	
n-Hexane	10.0	9.54	95	70-130	
1,1-Dichloroethane	10.0	8.98	90	70-130	
Vinyl acetate	10.0	9.15	92	70-130	
Ethyl acetate	10.0	10.7	107	70-130	
Methyl Ethyl Ketone	10.0	8.99	90	70-130	
cis-1,2-Dichloroethene	10.0	9.22	92	70-130	
Chloroform	10.0	9.27	93	70-130	
Tetrahydrofuran	10.0	8.40	84	70-130	
1,1,1-Trichloroethane	10.0	9.10	91	70-130	
Cyclohexane	10.0	9.22	92	70-130	
Carbon tetrachloride	10.0	8.90	89	70-130	
2,2,4-Trimethylpentane	10.0	8.97	90	70-130	
Benzene	10.0	9.15	92	70-130	
1,2-Dichloroethane	10.0	8.97	90	70-130	
n-Heptane	10.0	8.73	87	70-130	
Trichloroethene	10.0	8.95	89	70-130	
Methyl methacrylate	10.0	9.91	99	70-130	
1,2-Dichloropropane	10.0	9.04	90	70-130	
1,4-Dioxane	10.0	9.84	98	70-130	

Column to be used to flag recovery and RPD values

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-21554-1
 SDG No.: _____
 Matrix: Air Level: Low Lab File ID: 6759_03.D
 Lab ID: LCS 200-70021/3 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Bromodichloromethane	10.0	9.11	91	70-130	
cis-1,3-Dichloropropene	10.0	9.56	96	70-130	
methyl isobutyl ketone	10.0	9.38	94	70-130	
Toluene	10.0	9.27	93	70-130	
trans-1,3-Dichloropropene	10.0	9.11	91	70-130	
1,1,2-Trichloroethane	10.0	9.43	94	70-130	
Tetrachloroethene	10.0	8.98	90	70-130	
Methyl Butyl Ketone (2-Hexanone)	10.0	9.21	92	70-130	
Dibromochloromethane	10.0	8.94	89	70-130	
1,2-Dibromoethane	10.0	9.27	93	70-130	
Chlorobenzene	10.0	9.09	91	70-130	
Ethylbenzene	10.0	9.06	91	70-130	
m,p-Xylene	20.0	18.6	93	70-130	
Xylene, o-	10.0	9.13	91	70-130	
Styrene	10.0	9.24	92	70-130	
Bromoform	10.0	9.12	91	70-130	
Cumene	10.0	9.25	93	70-130	
1,1,2,2-Tetrachloroethane	10.0	9.33	93	70-130	
n-Propylbenzene	10.0	9.25	93	70-130	
4-Ethyltoluene	10.0	9.60	96	70-130	
1,3,5-Trimethylbenzene	10.0	9.13	91	70-130	
2-Chlorotoluene	10.0	9.17	92	70-130	
tert-Butylbenzene	10.0	9.18	92	70-130	
1,2,4-Trimethylbenzene	10.0	9.03	90	70-130	
sec-Butylbenzene	10.0	9.44	94	70-130	
4-Isopropyltoluene	10.0	9.40	94	70-130	
1,3-Dichlorobenzene	10.0	9.18	92	70-130	
1,4-Dichlorobenzene	10.0	9.06	91	70-130	
Benzyl chloride	10.0	8.98	90	70-130	
n-Butylbenzene	10.0	9.31	93	70-130	
1,2-Dichlorobenzene	10.0	9.09	91	70-130	
1,2,4-Trichlorobenzene	10.0	9.45	95	70-130	
Hexachlorobutadiene	10.0	9.40	94	70-130	
Naphthalene	10.0	9.14	91	70-130	

Column to be used to flag recovery and RPD values

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-21554-1
SDG No.: _____
Lab File ID: 6759_04.D Lab Sample ID: MB 200-70021/4
Matrix: Air Heated Purge: (Y/N) N
Instrument ID: CHC.i Date Analyzed: 03/28/2014 12:14
GC Column: RTX-624 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-70021/3	6759_03.D	03/28/2014 11:22
4373	200-21554-9	6759_05.D	03/28/2014 13:13

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-21554-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 200-70021/4

Matrix: Air Lab File ID: 6759_04.D

Analysis Method: TO-15 Date Collected: _____

Sample wt/vol: 200 (mL) Date Analyzed: 03/28/2014 12:14

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)

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

Analysis Batch No.: 70021 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	5.0	U	5.0	5.0
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	0.50
75-45-6	Freon 22	0.50	U	0.50	0.50
76-14-2	1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20
74-87-3	Chloromethane	0.50	U	0.50	0.50
106-97-8	n-Butane	0.50	U	0.50	0.50
75-01-4	Vinyl chloride	0.20	U	0.20	0.20
106-99-0	1,3-Butadiene	0.20	U	0.20	0.20
74-83-9	Bromomethane	0.20	U	0.20	0.20
75-00-3	Chloroethane	0.50	U	0.50	0.50
593-60-2	Bromoethene (Vinyl Bromide)	0.20	U	0.20	0.20
75-69-4	Trichlorofluoromethane	0.20	U	0.20	0.20
64-17-5	Ethanol	5.0	U	5.0	5.0
76-13-1	Freon TF	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.20
67-64-1	Acetone	5.0	U	5.0	5.0
67-63-0	Isopropyl alcohol	5.0	U	5.0	5.0
75-15-0	Carbon disulfide	0.50	U	0.50	0.50
107-05-1	3-Chloropropene	0.50	U	0.50	0.50
75-09-2	Methylene Chloride	0.50	U	0.50	0.50
75-65-0	tert-Butyl alcohol	5.0	U	5.0	5.0
1634-04-4	Methyl tert-butyl ether	0.20	U	0.20	0.20
156-60-5	trans-1,2-Dichloroethene	0.20	U	0.20	0.20
110-54-3	n-Hexane	0.20	U	0.20	0.20
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.20
108-05-4	Vinyl acetate	5.0	U	5.0	5.0
141-78-6	Ethyl acetate	5.0	U	5.0	5.0
78-93-3	Methyl Ethyl Ketone	0.50	U	0.50	0.50
156-59-2	cis-1,2-Dichloroethene	0.20	U	0.20	0.20
540-59-0	1,2-Dichloroethene, Total	0.20	U	0.20	0.20
67-66-3	Chloroform	0.20	U	0.20	0.20
109-99-9	Tetrahydrofuran	5.0	U	5.0	5.0
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.20
110-82-7	Cyclohexane	0.20	U	0.20	0.20
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.20
540-84-1	2,2,4-Trimethylpentane	0.20	U	0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-21554-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 200-70021/4

Matrix: Air Lab File ID: 6759_04.D

Analysis Method: TO-15 Date Collected: _____

Sample wt/vol: 200 (mL) Date Analyzed: 03/28/2014 12:14

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)

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

Analysis Batch No.: 70021 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.20	U	0.20	0.20
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.20
142-82-5	n-Heptane	0.20	U	0.20	0.20
79-01-6	Trichloroethene	0.20	U	0.20	0.20
80-62-6	Methyl methacrylate	0.50	U	0.50	0.50
78-87-5	1,2-Dichloropropane	0.20	U	0.20	0.20
123-91-1	1,4-Dioxane	5.0	U	5.0	5.0
75-27-4	Bromodichloromethane	0.20	U	0.20	0.20
10061-01-5	cis-1,3-Dichloropropene	0.20	U	0.20	0.20
108-10-1	methyl isobutyl ketone	0.50	U	0.50	0.50
108-88-3	Toluene	0.20	U	0.20	0.20
10061-02-6	trans-1,3-Dichloropropene	0.20	U	0.20	0.20
79-00-5	1,1,2-Trichloroethane	0.20	U	0.20	0.20
127-18-4	Tetrachloroethene	0.20	U	0.20	0.20
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.50
124-48-1	Dibromochloromethane	0.20	U	0.20	0.20
106-93-4	1,2-Dibromoethane	0.20	U	0.20	0.20
108-90-7	Chlorobenzene	0.20	U	0.20	0.20
100-41-4	Ethylbenzene	0.20	U	0.20	0.20
179601-23-1	m,p-Xylene	0.50	U	0.50	0.50
95-47-6	Xylene, o-	0.20	U	0.20	0.20
1330-20-7	Xylene (total)	0.20	U	0.20	0.20
100-42-5	Styrene	0.20	U	0.20	0.20
75-25-2	Bromoform	0.20	U	0.20	0.20
98-82-8	Cumene	0.20	U	0.20	0.20
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20
103-65-1	n-Propylbenzene	0.20	U	0.20	0.20
622-96-8	4-Ethyltoluene	0.20	U	0.20	0.20
108-67-8	1,3,5-Trimethylbenzene	0.20	U	0.20	0.20
95-49-8	2-Chlorotoluene	0.20	U	0.20	0.20
98-06-6	tert-Butylbenzene	0.20	U	0.20	0.20
95-63-6	1,2,4-Trimethylbenzene	0.20	U	0.20	0.20
135-98-8	sec-Butylbenzene	0.20	U	0.20	0.20
99-87-6	4-Isopropyltoluene	0.20	U	0.20	0.20
541-73-1	1,3-Dichlorobenzene	0.20	U	0.20	0.20
106-46-7	1,4-Dichlorobenzene	0.20	U	0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-21554-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 200-70021/4
Matrix: Air Lab File ID: 6759_04.D
Analysis Method: TO-15 Date Collected: _____
Sample wt/vol: 200 (mL) Date Analyzed: 03/28/2014 12:14
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 70021 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.20	U	0.20	0.20
104-51-8	n-Butylbenzene	0.20	U	0.20	0.20
95-50-1	1,2-Dichlorobenzene	0.20	U	0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	0.50
87-68-3	Hexachlorobutadiene	0.20	U	0.20	0.20
91-20-3	Naphthalene	0.50	U	0.50	0.50

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CHC.i\20140328-6759.b\6759_04.D
 Lims ID: mb
 Client ID:
 Sample Type: MB
 Inject. Date: 28-Mar-2014 12:14:30 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 200.000 mL Dil. Factor: 1.0000
 Sample Info: 200-0006759-004
 Misc. Info.: mb
 Operator ID: wrd Instrument ID: CHC.i
 Method: \\BTV-LIMS1\ChromData\CHC.i\20140328-6759.b\TO15_LLNJ_TO3_CHC.m
 Limit Group: AI_TO15_ICAL
 Last Update: 28-Mar-2014 11:58:26 Calib Date: 18-Mar-2014 16:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal/External Standard Quant By: Initial Calibration
 Last ICal File: \\BTV-LIMS1\ChromData\CHC.i\20140317-6584.b\6584_10.D
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK029

First Level Reviewer: desjardinsb

Date: 28-Mar-2014 13:59:58

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
4 Chlorotrifluoroethene TIC	116		3.162					
1 Propene	41		3.181					
2 Dichlorodifluoromethane	85		3.256					
5 Freon 115 TIC	85		3.261					
3 Difluoroethane TIC	51		3.272					
6 Chlorodifluoromethane	51		3.315					
7 1,2-Dichloro-1,1,2,2-tetrafluoro	85		3.544					
8 Chloromethane	50		3.699					
9 Butane	43		3.918					
10 Vinyl chloride	62		3.966					
11 Butadiene	54		4.051					
12 Bromomethane	94		4.788					
13 Chloroethane	64		5.049					
14 2-Methylbutane	43		5.124					
15 Vinyl bromide	106		5.465					
16 Trichlorofluoromethane	101		5.572					
17 Pentane	43		5.721					
20 1,1,1-Trifluoro-2,2-dichloroetha	83		6.000					
19 Ethanol	45		6.229					
21 Ethyl ether	59		6.287					
22 Acrolein	56		6.703					
23 1,1,2-Trichloro-1,2,2-trifluoroe	101		6.714					
24 1,1-Dichloroethene	96		6.757					
25 Acetone	43		7.034					
28 Methyl Acetate TIC	43	7.056	7.040	0.016	35	3898	NC	
26 Carbon disulfide	76		7.141					
27 Isopropyl alcohol	45		7.360					
29 3-Chloro-1-propene	41		7.589					
30 Acetonitrile	41		7.755					
31 Methylene Chloride	49		7.899					
32 2-Methyl-2-propanol	59		8.155					

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
	33			73	8.315		
	34			61	8.342		
	35			53	8.534		
	36			57	8.737		
	37			63	9.260		
	38			43	9.356		
S	41			61	10.200		
	39			96	10.423		
	40			72	10.498		
	42			88	10.535		
*	43			128	10.904	10.914 -0.010	64 713775 10.0
	44			42	10.930		
	45			83	11.053		
	46			84	11.283		
	49			55	11.293		
	47			97	11.331		
	48			117	11.581		
	51			57	12.040		
	50			78	12.083		
	52			62	12.291		
	53			43	12.451		
*	54			114	12.974	12.980 -0.006	91 4023938 10.0
	55			56	13.428		
	56			95	13.465		
A	57			1	13.489	5.114 - 21.865	0 1044163 0
	58			63	14.063		
	59			69	14.245		
	60			88	14.309		
	61			174	14.330		
	62			83	14.634		
A	63			1	15.269	3.171 - 27.367	0 1227675 5.35
	64			75	15.589		
	65			43	15.899		
	66			92	16.187		
A	67			1	16.187	16.147 -16.227	0 5849 NC
	68			43	16.230		
A	69			1	16.236	16.208 -16.280	0 6963 NC
	70			75	16.801		
	71			83	17.180		
	72			166	17.271		
	73			43	17.644		
	74			129	17.948		
	75			107	18.226		
*	76			117	19.117	19.122 -0.005	79 3958655 10.0
	77			112	19.181		
	78			91	19.331		
	80			75	19.112	19.331 -0.219	1 44853 NC
	79			57	19.432		
	81			106	19.581		
S	82			106	20.100		
	83			106	20.393		
	84			104	20.441		

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
	85			173	20.841		
	86			105	21.022		
\$	87			95	21.375	21.380	-0.005 96 2382280 NC
	88			83	21.647		
	90			91	21.706		
	89			75	21.743		
	93			57	21.855		
	91			105	21.887		
	92			91	21.903		
	94			105	21.988		
	95			118	22.341		
	96			119	22.458		
	97			105	22.554		
	98			105	22.773		
	99			119	22.970		
	100			146	23.008		
	101			146	23.146		
	102			91	23.355		
	103			91	23.557		
	104			57	23.563		
	105			146	23.702		
	106			57	25.217		
	107			180	26.327		
	108			225	26.514		
	109			128	26.856		
	110			180	27.357		
	111			1	0.0		

WorkSheet Quantitation Report

Sig	RT	Lower RT	Upper RT	Q	Response	On-Col Amt ppb v/v	Ratio Range	Ratio	Flags

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CHC.i\20140328-6759.b\6759_04.D

Injection Date: 28-Mar-2014 12:14:30

Instrument ID: CHC.i

Operator ID: wrd

Lims ID: mb

Worklist Smp#: 4

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

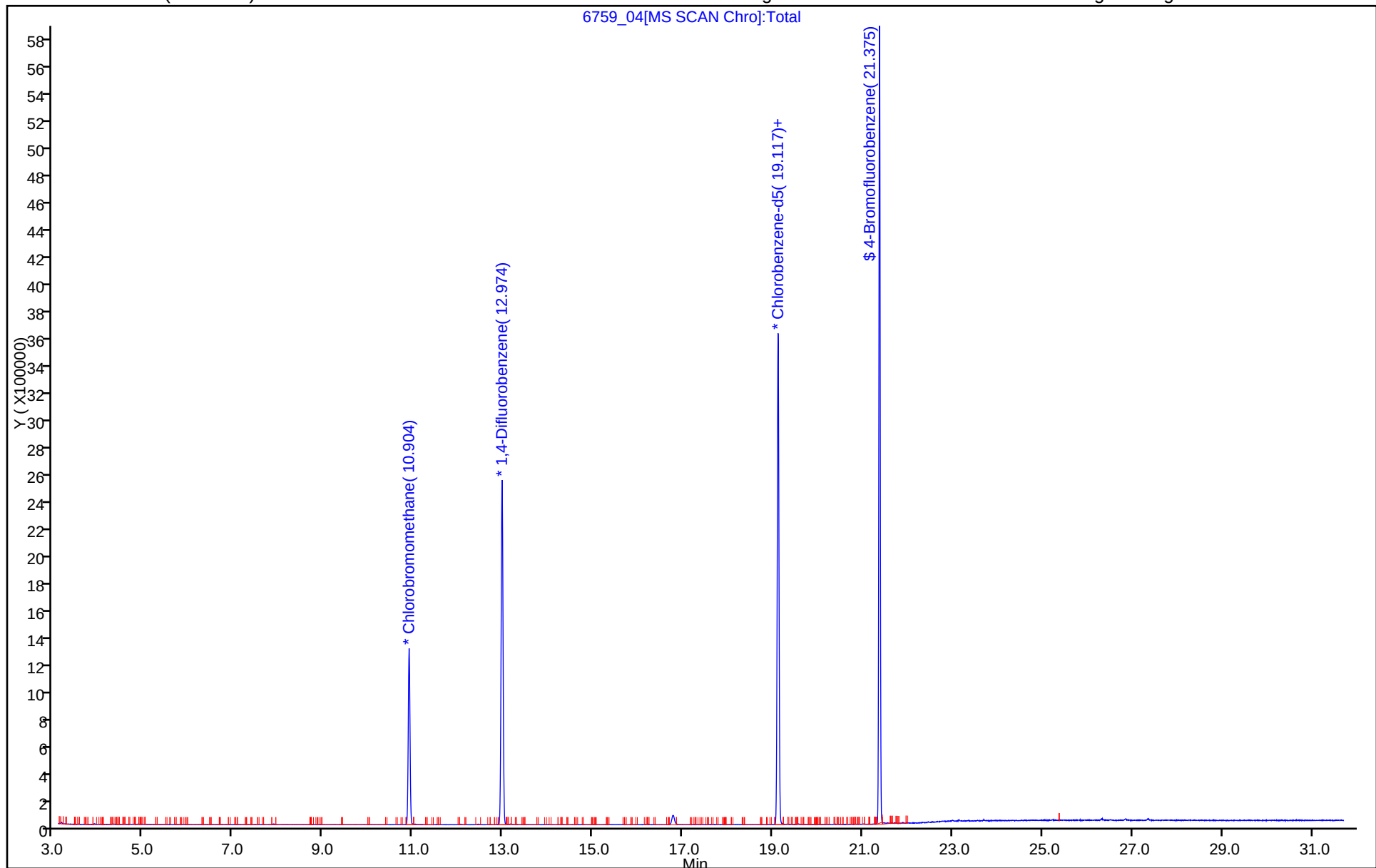
ALS Bottle#: 4

Method: TO15_LLNJ_TO3_CHC

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-21554-1
 SDG No.: _____
 Lab File ID: 6584_01.D BFB Injection Date: 03/18/2014
 Instrument ID: CHC.i BFB Injection Time: 07:56
 Analysis Batch No.: 69583

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	15.8
75	30.0 - 66.0% of mass 95	46.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.4 (0.5) 1
174	50.0 - 120.0% of mass 95	77.1
175	4.0 - 9.0 % of mass 174	5.4 (7.0) 1
176	93.0 - 101.0% of mass 174	74.6 (96.8) 1
177	5.0 - 9.0% of mass 176	4.8 (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
	IC 200-69583/3	6584_03.D	03/18/2014	09:42
	IC 200-69583/4	6584_04.D	03/18/2014	10:34
	IC 200-69583/6	6584_06.D	03/18/2014	12:18
	ICIS 200-69583/7	6584_07.D	03/18/2014	13:10
	IC 200-69583/8	6584_08.D	03/18/2014	14:03
	IC 200-69583/17	6584_17.D	03/18/2014	14:55
	IC 200-69583/9	6584_09.D	03/18/2014	15:47
	IC 200-69583/10	6584_10.D	03/18/2014	16:40
	ICV 200-69583/13	6584_13.D	03/18/2014	19:09

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-21554-1
 SDG No.: _____
 Lab File ID: 6759_01.D BFB Injection Date: 03/28/2014
 Instrument ID: CHC.i BFB Injection Time: 09:42
 Analysis Batch No.: 70021

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	14.3
75	30.0 - 66.0% of mass 95	44.8
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	0.4 (0.5) 1
174	50.0 - 120.0% of mass 95	80.3
175	4.0 - 9.0 % of mass 174	5.5 (6.9) 1
176	93.0 - 101.0% of mass 174	77.0 (95.9) 1
177	5.0 - 9.0% of mass 176	5.1 (6.6) 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 200-70021/2	6759_02.D	03/28/2014	10:30
	LCS 200-70021/3	6759_03.D	03/28/2014	11:22
	MB 200-70021/4	6759_04.D	03/28/2014	12:14
4373	200-21554-9	6759_05.D	03/28/2014	13:13

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

Lab Name: TestAmerica Burlington Job No.: 200-21554-1
 SDG No.: _____
 Sample No.: ICIS 200-69583/7 Date Analyzed: 03/18/2014 13:10
 Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32 (mm)
 Lab File ID (Standard): 6584_07.D Heated Purge: (Y/N) N
 Calibration ID: 26036

	BCM		DFB		CBZ		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	599013	10.92	3215123	12.99	3281594	19.13	
UPPER LIMIT	838618	11.25	4501172	13.32	4594232	19.46	
LOWER LIMIT	359408	10.59	1929074	12.66	1968956	18.80	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 200-69583/13		695752	10.91	3933850	12.98	4013451	19.12

BCM = Bromochloromethane
 DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
 RT Limit = $\pm$ 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Burlington Job No.: 200-21554-1
 SDG No.: _____
 Sample No.: CCVIS 200-70021/2 Date Analyzed: 03/28/2014 10:30
 Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32 (mm)
 Lab File ID (Standard): 6759_02.D Heated Purge: (Y/N) N
 Calibration ID: 26036

		BCM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		671144	10.91	3623428	12.98	3773765	19.12
UPPER LIMIT		939602	11.24	5072799	13.31	5283271	19.45
LOWER LIMIT		402686	10.58	2174057	12.65	2264259	18.79
LAB SAMPLE ID		CLIENT SAMPLE ID					
LCS 200-70021/3		724820	10.91	4013198	12.98	4140911	19.12
MB 200-70021/4		713775	10.90	4023938	12.97	3958655	19.12
200-21554-9	4373	717385	10.91	4017514	12.98	3973388	19.12

BCM = Bromochloromethane
 DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
 RT Limit = $\pm$ 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-21554-1

SDG No.: _____

Client Sample ID: 4373 Lab Sample ID: 200-21554-9

Matrix: Air Lab File ID: 6759_05.D

Analysis Method: TO-15 Date Collected: 03/26/2014 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 03/28/2014 13:13

Soil Aliquot Vol: _____ Dilution Factor: 0.2

Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)

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

Analysis Batch No.: 70021 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.040	U	0.040	0.040
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-21554-1

SDG No.: _____

Client Sample ID: 4373 Lab Sample ID: 200-21554-9

Matrix: Air Lab File ID: 6759_05.D

Analysis Method: TO-15 Date Collected: 03/26/2014 00:00

Sample wt/vol: 1000 (mL) Date Analyzed: 03/28/2014 13:13

Soil Aliquot Vol: _____ Dilution Factor: 0.2

Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)

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

Analysis Batch No.: 70021 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.040	U	0.040	0.040
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-21554-1
SDG No.: _____
Client Sample ID: 4373 Lab Sample ID: 200-21554-9
Matrix: Air Lab File ID: 6759_05.D
Analysis Method: TO-15 Date Collected: 03/26/2014 00:00
Sample wt/vol: 1000 (mL) Date Analyzed: 03/28/2014 13:13
Soil Aliquot Vol: _____ Dilution Factor: 0.2
Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 70021 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CHC.i\20140328-6759.b\6759_05.D
 Lims ID: 200-21554-A-9 Lab Sample ID: 200-21554-9
 Client ID: 4373
 Sample Type: Client
 Inject. Date: 28-Mar-2014 13:13:30 ALS Bottle#: 5 Worklist Smp#: 5
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Sample Info: 200-0006759-005
 Misc. Info.: 21554-9
 Operator ID: wrd Instrument ID: CHC.i
 Method: \\BTV-LIMS1\ChromData\CHC.i\20140328-6759.b\TO15_LLNJ_TO3_CHC.m
 Limit Group: AI_TO15_ICAL
 Last Update: 28-Mar-2014 11:58:26 Calib Date: 18-Mar-2014 16:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal/External Standard Quant By: Initial Calibration
 Last ICal File: \\BTV-LIMS1\ChromData\CHC.i\20140317-6584.b\6584_10.D
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK029

First Level Reviewer: desjardinsb

Date: 28-Mar-2014 14:00:42

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
1 Propene	41		3.181					
2 Dichlorodifluoromethane	85		3.256					
6 Chlorodifluoromethane	51		3.315					
7 1,2-Dichloro-1,1,2,2-tetrafluoro	85		3.544					
8 Chloromethane	50		3.699					
9 Butane	43		3.918					
10 Vinyl chloride	62		3.966					
11 Butadiene	54		4.051					
12 Bromomethane	94		4.788					
13 Chloroethane	64		5.049					
15 Vinyl bromide	106		5.465					
16 Trichlorofluoromethane	101		5.572					
19 Ethanol	45		6.229					
23 1,1,2-Trichloro-1,2,2-trifluoroe	101		6.714					
24 1,1-Dichloroethene	96		6.757					
25 Acetone	43		7.034					
26 Carbon disulfide	76		7.141					
27 Isopropyl alcohol	45		7.360					
29 3-Chloro-1-propene	41		7.589					
31 Methylene Chloride	49		7.899					
32 2-Methyl-2-propanol	59		8.155					
33 Methyl tert-butyl ether	73		8.315					
34 trans-1,2-Dichloroethene	61		8.342					
36 Hexane	57		8.737					
37 1,1-Dichloroethane	63		9.260					
38 Vinyl acetate	43		9.356					
S 41 1,2-Dichloroethene, Total	61		10.200					
39 cis-1,2-Dichloroethene	96		10.423					
40 2-Butanone (MEK)	72		10.498					
42 Ethyl acetate	88		10.535					
* 43 Chlorobromomethane	128	10.914	10.914	0.0	65	717385	10.0	

Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
44	Tetrahydrofuran		42	10.930			
45	Chloroform		83	11.053			
46	Cyclohexane		84	11.283			
47	1,1,1-Trichloroethane		97	11.331			
48	Carbon tetrachloride		117	11.581			
51	Isooctane		57	12.040			
50	Benzene		78	12.083			
52	1,2-Dichloroethane		62	12.291			
53	n-Heptane		43	12.451			
* 54	1,4-Difluorobenzene		114	12.980	12.980 0.0	91	4017514 10.0
56	Trichloroethene		95	13.465			
58	1,2-Dichloropropane		63	14.063			
59	Methyl methacrylate		69	14.245			
60	1,4-Dioxane		88	14.309			
61	Dibromomethane		174	14.330			
62	Dichlorobromomethane		83	14.634			
64	cis-1,3-Dichloropropene		75	15.589			
65	4-Methyl-2-pentanone (MIBK)		43	15.899			
66	Toluene		92	16.187			
70	trans-1,3-Dichloropropene		75	16.801			
71	1,1,2-Trichloroethane		83	17.180			
72	Tetrachloroethene		166	17.271			
73	2-Hexanone		43	17.644			
74	Chlorodibromomethane		129	17.948			
75	Ethylene Dibromide		107	18.226			
* 76	Chlorobenzene-d5		117	19.122	19.122 0.0	80	3973388 10.0
77	Chlorobenzene		112	19.181			
78	Ethylbenzene		91	19.331			
81	m-Xylene & p-Xylene		106	19.581			
S 82	Xylenes, Total		106	20.100			
83	o-Xylene		106	20.393			
84	Styrene		104	20.441			
85	Bromoform		173	20.841			
86	Isopropylbenzene		105	21.022			
\$ 87	4-Bromofluorobenzene		95	21.375	21.380 -0.005	96	2430977 NC
88	1,1,2,2-Tetrachloroethane		83	21.647			
90	N-Propylbenzene		91	21.706			
91	4-Ethyltoluene		105	21.887			
92	2-Chlorotoluene		91	21.903			
94	1,3,5-Trimethylbenzene		105	21.988			
96	tert-Butylbenzene		119	22.458			
97	1,2,4-Trimethylbenzene		105	22.554			
98	sec-Butylbenzene		105	22.773			
99	4-Isopropyltoluene		119	22.970			
100	1,3-Dichlorobenzene		146	23.008			
101	1,4-Dichlorobenzene		146	23.146			
102	Benzyl chloride		91	23.355			
103	n-Butylbenzene		91	23.557			
105	1,2-Dichlorobenzene		146	23.702			
107	1,2,4-Trichlorobenzene		180	26.327			
108	Hexachlorobutadiene		225	26.514			
109	Naphthalene		128	26.856			

WorkSheet Quantitation Report

Sig	RT	Lower RT	Upper RT	Q	Response	On-Col Amt ppb v/v	Ratio Range	Ratio	Flags

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CHC.i\20140328-6759.b\6759_05.D

Injection Date: 28-Mar-2014 13:13:30

Instrument ID: CHC.i

Operator ID: wrd

Lims ID: 200-21554-A-9

Lab Sample ID: 200-21554-9

Worklist Smp#: 5

Client ID: 4373

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

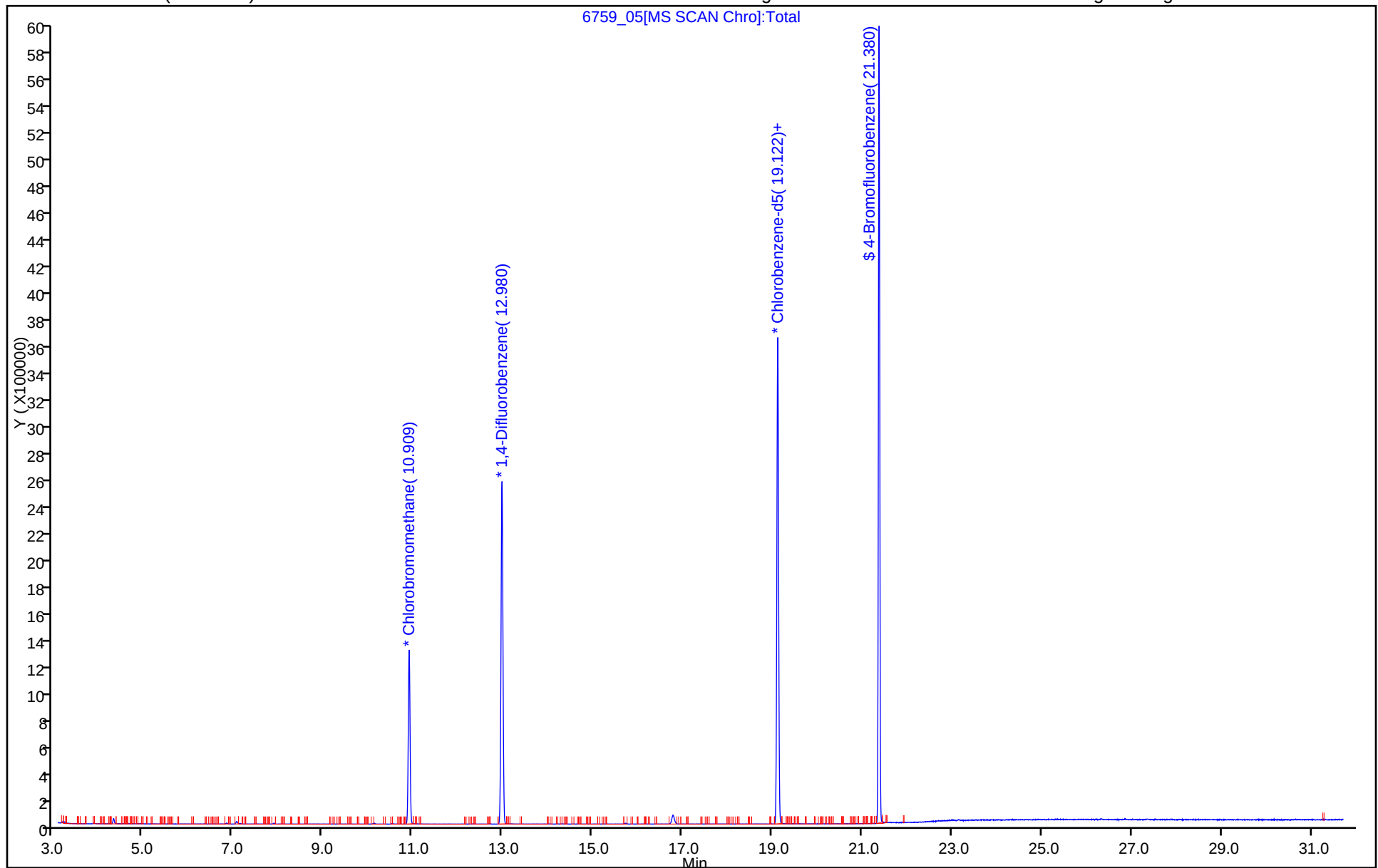
ALS Bottle#: 5

Method: TO15_LL NJ_TO3_CHC

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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

Lab Name: TestAmerica Burlington Job No.: 200-21554-1 Analy Batch No.: 69583

SDG No.: _____

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/18/2014 09:42 Calibration End Date: 03/18/2014 16:40 Calibration ID: 26036

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-69583/3	6584_03.D
Level 2	IC 200-69583/4	6584_04.D
Level 3	IC 200-69583/17	6584_17.D
Level 4	IC 200-69583/6	6584_06.D
Level 5	ICIS 200-69583/7	6584_07.D
Level 6	IC 200-69583/8	6584_08.D
Level 7	IC 200-69583/9	6584_09.D
Level 8	IC 200-69583/10	6584_10.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Propylene	++++ 0.3196	++++ 0.3194	0.5199 0.2866	0.3351	0.3036	Ave		0.3474				25.0		30.0			
Dichlorodifluoromethane	++++ 2.4800	++++ 2.5571	3.0704 2.2713	2.6666	2.4118	Ave		2.5762				11.0		30.0			
Freon 22	++++ 0.8200	++++ 0.8420	1.0817 0.7507	0.9056	0.7955	Ave		0.8659				14.0		30.0			
1,2-Dichlorotetrafluoroethane	++++ 2.0553	3.0069 2.1144	2.5463 1.8719	2.1938	1.9755	Ave		2.2520				18.0		30.0			
Chloromethane	++++ 0.3997	++++ 0.4105	0.5586 0.3719	0.4319	0.3832	Ave		0.4260				16.0		30.0			
n-Butane	++++ 0.6596	++++ 0.6604	0.8617 0.5967	0.6884	0.6159	Ave		0.6804				14.0		30.0			
Vinyl chloride	0.8371 0.5617	0.8399 0.5788	0.7072 0.5303	0.5958	0.5282	Ave		0.6474				20.0		30.0			
1,3-Butadiene	++++ 0.3853	0.5403 0.4032	0.4714 0.3691	0.4099	0.3757	Ave		0.4221				15.0		30.0			
Bromomethane	++++ 0.7586	1.1699 0.7812	0.9599 0.7225	0.7898	0.7169	Ave		0.8427				20.0		30.0			
Chloroethane	++++ 0.2640	++++ 0.2706	0.3494 0.2467	0.2822	0.2519	Ave		0.2775				14.0		30.0			
Isopentane	++++ 0.4139	0.7197 0.4171	0.5457 0.3848	0.4477	0.3948	Ave		0.4748				25.0		30.0			
Bromoethene (Vinyl Bromide)	++++ 0.9620	1.3025 1.0025	1.1507 0.9311	0.9775	0.9047	Ave		1.0330				14.0		30.0			
Trichlorofluoromethane	++++ 2.9242	4.2280 3.0424	3.5416 2.7858	3.0509	2.7691	Ave		3.1917				16.0		30.0			
n-Pentane	++++ 0.7040	++++ 0.7109	0.8790 0.6452	0.7312	0.6564	Ave		0.7211				12.0		30.0			

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

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

Lab Name: TestAmerica Burlington Job No.: 200-21554-1 Analy Batch No.: 69583

SDG No.: _____

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/18/2014 09:42 Calibration End Date: 03/18/2014 16:40 Calibration ID: 26036

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Ethanol	+++++ 0.1375	+++++ 0.1393	0.1645 0.1287	0.2036	0.1762	Ave		0.1583				18.0		30.0			
Ethyl ether	+++++ 0.3625	0.4839 0.3745	0.4394 0.3454	0.3805	0.3460	Ave		0.3903				13.0		30.0			
Acrolein	+++++ 0.1538	+++++ 0.1618	0.2662 0.1439	0.1723	0.1581	Ave		0.1760				26.0		30.0			
Freon TF	+++++ 1.7666	2.5125 1.8407	2.1665 1.6855	1.8304	1.6812	Ave		1.9262				16.0		30.0			
1,1-Dichloroethene	+++++ 0.8203	1.0878 0.8564	0.9775 0.7864	0.8424	0.7683	Ave		0.8770				13.0		30.0			
Acetone	+++++ 0.7307	+++++ 0.8562	+++++ 0.6387	0.7799	0.7071	Ave		0.7425				11.0		30.0			
Carbon disulfide	+++++ 1.9783	+++++ 1.8419	2.0254 1.6969	1.7981	1.6500	Ave		1.8317				8.1		30.0			
Isopropyl alcohol	+++++ 0.5444	+++++ 0.5849	+++++ 0.4894	0.5938	0.5126	Ave		0.5450				8.3		30.0			
3-Chloropropene	+++++ 0.5390	0.7361 0.5649	0.6297 0.5125	0.5659	0.5166	Ave		0.5807				14.0		30.0			
Acetonitrile	+++++ 0.2790	+++++ 0.2875	+++++ 0.2564	0.2578	0.2500	Ave		0.2661				6.1		30.0			
Methylene Chloride	+++++ 0.5081	+++++ 0.5243	0.6930 0.4703	0.5443	0.4782	Ave		0.5364				15.0		30.0			
tert-Butyl alcohol	+++++ 1.0129	+++++ 1.1519	+++++ 0.9531	1.0906	0.9553	Ave		1.0327				8.4		30.0			
Methyl tert-butyl ether	+++++ 2.1128	2.7396 2.2060	2.4146 2.0120	2.1558	1.9807	Ave		2.2316				12.0		30.0			
trans-1,2-Dichloroethene	+++++ 0.8435	1.1315 0.8679	0.9617 0.7756	0.8801	0.7941	Ave		0.8935				14.0		30.0			
Acrylonitrile	+++++ 0.3380	+++++ 0.3525	0.3646 0.3274	0.3295	0.3118	Ave		0.3373				5.6		30.0			
n-Hexane	+++++ 0.8039	1.0992 0.8148	0.9558 0.7415	0.8078	0.7377	Ave		0.8515				15.0		30.0			
1,1-Dichloroethane	1.6056 1.1315	1.6001 1.1883	1.3346 1.0835	1.1752	1.0842	Ave		1.2754				17.0		30.0			
Vinyl acetate	+++++ 1.2834	+++++ 1.3398	+++++ 1.2349	1.2842	1.1867	Ave		1.2658				4.6		30.0			
cis-1,2-Dichloroethene	+++++ 1.0491	1.4559 1.1082	1.2405 1.0337	1.0461	0.9802	Ave		1.1305				15.0		30.0			
Methyl Ethyl Ketone	+++++ 0.3754	+++++ 0.4020	0.6735 0.3624	0.3706	0.3487	Ave		0.4221				29.0		30.0			

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

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

Lab Name: TestAmerica Burlington Job No.: 200-21554-1 Analy Batch No.: 69583

SDG No.: _____

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/18/2014 09:42 Calibration End Date: 03/18/2014 16:40 Calibration ID: 26036

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Ethyl acetate	+++++ 0.0779	+++++ 0.0825	+++++ 0.0766	0.0751	0.0710	Ave		0.0766				5.5		30.0			
Tetrahydrofuran	+++++ 0.1002	+++++ 0.1051	+++++ 0.0950	0.1070	0.0959	Ave		0.1007				5.3		30.0			
Chloroform	+++++ 2.1921	3.0283 2.2930	2.5359 2.0884	2.2342	2.0569	Ave		2.3470				14.0		30.0			
Cyclohexane	+++++ 0.2403	0.3391 0.2525	0.2811 0.2273	0.2460	0.2278	Ave		0.2591				15.0		30.0			
1,1,1-Trichloroethane	+++++ 0.5194	0.7058 0.5479	0.5856 0.4934	0.5392	0.4992	Ave		0.5558				13.0		30.0			
Carbon tetrachloride	0.8018 0.6311	0.7997 0.6600	0.6832 0.6034	0.6419	0.5989	Ave		0.6775				12.0		30.0			
2,2,4-Trimethylpentane	+++++ 0.6654	0.8970 0.6858	0.7578 0.6129	0.6910	0.6340	Ave		0.7063				14.0		30.0			
Benzene	+++++ 0.5460	0.7714 0.5768	0.6578 0.5243	0.5611	0.5168	Ave		0.5935				15.0		30.0			
1,2-Dichloroethane	+++++ 0.2548	0.3616 0.2664	0.2856 0.2368	0.2751	0.2482	Ave		0.2755				15.0		30.0			
n-Heptane	+++++ 0.2133	0.3080 0.2195	0.2517 0.1932	0.2246	0.2059	Ave		0.2309				17.0		30.0			
n-Butanol	+++++ 0.0734	+++++ 0.0781	+++++ 0.0657	0.0796	0.0680	Ave		0.0730				8.3		30.0			
Trichloroethene	0.4498 0.3299	0.4371 0.3498	0.3874 0.3191	0.3314	0.3109	Ave		0.3644				15.0		30.0			
1,2-Dichloropropane	+++++ 0.1906	0.2702 0.2029	0.2207 0.1831	0.2010	0.1823	Ave		0.2073				15.0		30.0			
Methyl methacrylate	+++++ 0.2154	+++++ 0.2287	0.2216 0.2091	0.2125	0.2012	Ave		0.2148				4.5		30.0			
1,4-Dioxane	+++++ 0.1082	+++++ 0.1140	+++++ 0.0921	0.1092	0.0964	Ave		0.1040				8.9		30.0			
Dibromomethane	+++++ 0.4621	0.5462 0.5008	0.5284 0.4765	0.4191	0.4143	Ave		0.4782				11.0		30.0			
Bromodichloromethane	+++++ 0.5635	0.7145 0.5943	0.6183 0.5386	0.5695	0.5310	Ave		0.5900				11.0		30.0			
cis-1,3-Dichloropropene	+++++ 0.3636	0.4344 0.3870	0.3986 0.3588	0.3639	0.3417	Ave		0.3783				8.2		30.0			
methyl isobutyl ketone	+++++ 0.3293	+++++ 0.3464	0.3520 0.3080	0.3426	0.3134	Ave		0.3319				5.5		30.0			
Toluene	+++++ 0.5401	0.7081 0.5718	0.6265 0.5133	0.5271	0.5019	Ave		0.5698				13.0		30.0			

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

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

Lab Name: TestAmerica Burlington Job No.: 200-21554-1 Analy Batch No.: 69583

SDG No.: _____

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/18/2014 09:42 Calibration End Date: 03/18/2014 16:40 Calibration ID: 26036

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
n-Octane	++++ 0.3485	0.5318 0.3532	0.4010 0.2985	0.3727	0.3386	Ave		0.3778				20.0		30.0			
trans-1,3-Dichloropropene	++++ 0.4074	0.5310 0.4347	0.5211 0.3969	0.4034	0.3856	Ave		0.4400				14.0		30.0			
1,1,2-Trichloroethane	++++ 0.2386	0.3065 0.2515	0.2756 0.2246	0.2406	0.2231	Ave		0.2515				12.0		30.0			
Tetrachloroethene	0.8566 0.6979	0.8218 0.7487	0.7929 0.6999	0.6317	0.6244	Ave		0.7342				12.0		30.0			
Methyl Butyl Ketone (2-Hexanone)	++++ 0.3218	++++ 0.3350	0.3428 0.2933	0.3372	0.3072	Ave		0.3229				6.0		30.0			
Dibromochloromethane	++++ 0.7641	0.8693 0.8206	0.8009 0.7531	0.7309	0.7043	Ave		0.7776				7.3		30.0			
1,2-Dibromoethane	++++ 0.5699	0.6858 0.6082	0.6337 0.5575	0.5468	0.5266	Ave		0.5898				9.5		30.0			
Chlorobenzene	++++ 0.8562	1.1188 0.9104	1.0232 0.8452	0.8257	0.7873	Ave		0.9095				13.0		30.0			
Ethylbenzene	++++ 1.2698	1.6720 1.3446	1.4720 1.2248	1.2486	1.1807	Ave		1.3446				13.0		30.0			
n-Nonane	++++ 0.4006	0.5706 0.4074	0.4779 0.3484	0.4278	0.3819	Ave		0.4307				17.0		30.0			
m,p-Xylene	++++ 0.5571	0.7010 0.5853	0.6413 0.5125	0.5460	0.5179	Ave		0.5802				12.0		30.0			
Xylene, o-	++++ 0.5455	0.6834 0.5770	0.6137 0.5231	0.5249	0.5019	Ave		0.5671				11.0		30.0			
Styrene	++++ 0.8656	0.9541 0.9204	0.9136 0.8555	0.8263	0.8014	Ave		0.8767				6.3		30.0			
Bromoform	++++ 0.9241	0.8994 0.9992	0.8780 0.9155	0.8414	0.8278	Ave		0.8979				6.4		30.0			
Cumene	++++ 1.6499	1.9796 1.7556	1.8282 1.4434	1.5979	1.5225	Ave		1.6824				11.0		30.0			
1,1,2,2-Tetrachloroethane	++++ 0.6366	0.8702 0.6690	0.7530 0.5785	0.6621	0.6048	Ave		0.6820				15.0		30.0			
n-Propylbenzene	++++ 1.7908	2.3733 1.8744	2.0490 1.3850	1.7812	1.6659	Ave		1.8457				17.0		30.0			
1,2,3-Trichloropropane	++++ 0.4947	++++ 0.5134	0.6030 0.4371	0.5238	0.4745	Ave		0.5078				11.0		30.0			
n-Decane	++++ 0.5014	++++ 0.4980	0.6337 0.3936	0.5623	0.4929	Ave		0.5136				16.0		30.0			
4-Ethyltoluene	++++ 1.6369	2.1566 1.6893	1.9088 1.2571	1.6564	1.5395	Ave		1.6921				17.0		30.0			

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

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

Lab Name: TestAmerica Burlington Job No.: 200-21554-1 Analy Batch No.: 69583

SDG No.: _____

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/18/2014 09:42 Calibration End Date: 03/18/2014 16:40 Calibration ID: 26036

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Chlorotoluene	++++ 1.2472	1.7057 1.2872	1.4812 1.0531	1.2999	1.1899	Ave		1.3234				16.0		30.0			
1,3,5-Trimethylbenzene	++++ 1.4390	1.9397 1.5255	1.5897 1.2536	1.4136	1.3255	Ave		1.4981				15.0		30.0			
Alpha Methyl Styrene	++++ 0.7626	0.7974 0.7588	0.7821 0.7610	0.7257	0.7018	Ave		0.7556				4.3		30.0			
tert-Butylbenzene	++++ 1.4924	1.8359 1.5835	1.6778 1.2837	1.4517	1.3741	Ave		1.5284				12.0		30.0			
1,2,4-Trimethylbenzene	++++ 1.4637	2.0433 1.5524	1.6062 1.2229	1.4348	1.3561	Ave		1.5256				17.0		30.0			
sec-Butylbenzene	++++ 2.0632	2.5547 2.1789	2.3154 1.4251	2.0262	1.9086	Ave		2.0674				17.0		30.0			
4-Isopropyltoluene	++++ 1.9534	2.4113 2.0603	2.1698 1.3537	1.8760	1.7911	Ave		1.9451				17.0		30.0			
1,3-Dichlorobenzene	++++ 1.2534	1.4162 1.3444	1.3973 1.1335	1.1669	1.1261	Ave		1.2626				9.9		30.0			
1,4-Dichlorobenzene	++++ 1.2542	1.4128 1.3584	1.4064 1.1452	1.1687	1.1304	Ave		1.2680				9.8		30.0			
Benzyl chloride	++++ 1.1916	1.2858 1.3735	1.2706 1.1528	1.2727	1.2001	Ave		1.2496				5.9		30.0			
n-Butylbenzene	++++ 1.3908	1.8725 1.4049	1.6769 1.0929	1.4753	1.3414	Ave		1.4650				17.0		30.0			
n-Undecane	++++ 0.5277	++++ 0.5058	++++ 0.3515	0.6195	0.5279	Ave		0.5065				19.0		30.0			
1,2-Dichlorobenzene	++++ 1.1834	1.3600 1.2792	1.2972 1.1327	1.1061	1.0608	Ave		1.2028				9.2		30.0			
n-Dodecane	++++ 0.4939	++++ 0.4800	++++ 0.1856	0.4763	0.4344	Ave		0.4140				31.0	*	30.0			
1,2,4-Trichlorobenzene	++++ 1.0788	++++ 1.1347	1.0891 0.6344	0.8954	0.9152	Ave		0.9580				19.0		30.0			
Hexachlorobutadiene	++++ 0.9028	1.1167 0.9583	1.0331 0.4810	0.8767	0.8299	Ave		0.8855				23.0		30.0			
Naphthalene	++++ 2.1568	++++ 2.1180	1.9061 1.2421	1.7343	1.7510	Ave		1.8180				18.0		30.0			
1,2,3-Trichlorobenzene	++++ 0.9830	0.7869 1.0166	0.9715 0.4350	0.7937	0.8142	Ave		0.8287				24.0		30.0			

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

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

Lab Name: TestAmerica Burlington Job No.: 200-21554-1 Analy Batch No.: 69583

SDG No.: _____

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/18/2014 09:42 Calibration End Date: 03/18/2014 16:40 Calibration ID: 26036

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-69583/3	6584_03.D
Level 2	IC 200-69583/4	6584_04.D
Level 3	IC 200-69583/17	6584_17.D
Level 4	IC 200-69583/6	6584_06.D
Level 5	ICIS 200-69583/7	6584_07.D
Level 6	IC 200-69583/8	6584_08.D
Level 7	IC 200-69583/9	6584_09.D
Level 8	IC 200-69583/10	6584_10.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Propylene	BCM	Ave	++++ 298868	++++ 408082	16016 809124	90335	181800	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.00
Dichlorodifluoromethane	BCM	Ave	++++ 2318990	++++ 3267185	94592 6412714	718864	1444396	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.00
Freon 22	BCM	Ave	++++ 766711	++++ 1075776	33325 2119536	244137	476447	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.00
1,2-Dichlorotetrafluoroethane	BCM	Ave	++++ 1921803	30966 2701591	78444 5285181	591393	1183101	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Chloromethane	BCM	Ave	++++ 373710	++++ 524548	17209 1050091	116419	229477	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.00
n-Butane	BCM	Ave	++++ 616806	++++ 843803	26546 1684776	185566	368841	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.00
Vinyl chloride	BCM	Ave	1767 525225	8649 739494	21787 1497291	160603	316364	0.0401 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,3-Butadiene	BCM	Ave	++++ 360241	5564 515134	14522 1042017	110497	225019	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Bromomethane	BCM	Ave	++++ 709332	12048 998133	29573 2040013	212908	429354	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Chloroethane	BCM	Ave	++++ 246857	++++ 345796	10765 696405	76075	150856	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.00
Isopentane	BCM	Ave	++++ 387033	7412 532924	16813 1086291	120683	236450	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Bromoethene (Vinyl Bromide)	BCM	Ave	++++ 899568	13413 1280905	35451 2628769	263513	541836	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Trichlorofluoromethane	BCM	Ave	++++ 2734267	43541 3887278	109106 7865204	822444	1658401	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
n-Pentane	BCM	Ave	++++ 658272	++++ 908364	27079 1821586	197113	393101	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.00
Ethanol	BCM	Ave	++++ 171760	++++ 356128	50748 908250	82364	158331	++++ 20.0	++++ 40.0	5.01 100.0	7.50	15.0

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

Lab Name: TestAmerica Burlington Job No.: 200-21554-1 Analy Batch No.: 69583

SDG No.: _____

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/18/2014 09:42 Calibration End Date: 03/18/2014 16:40 Calibration ID: 26036

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Ethyl ether	BCM	Ave	++++ 338969	4983 478561	13536 975060	102562	207229	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Acrolein	BCM	Ave	++++ 143767	++++ 206776	8200 406405	46452	94670	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.00
Freon TF	BCM	Ave	++++ 1651853	25874 2351895	66744 4758714	493432	1006861	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,1-Dichloroethene	BCM	Ave	++++ 767018	11202 1094257	30114 2220318	227098	460152	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Acetone	BCM	Ave	++++ 683269	++++ 1093966	++++ 1803417	210248	423482	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.00
Carbon disulfide	BCM	Ave	++++ 1849794	++++ 2353435	62396 4790875	484724	988159	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.00
Isopropyl alcohol	BCM	Ave	++++ 509071	++++ 747347	++++ 1381834	160073	306988	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.00
3-Chloropropene	BCM	Ave	++++ 503999	7581 721771	19400 1447049	152541	309412	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Acetonitrile	BCM	Ave	++++ 260894	++++ 367368	++++ 723819	69510	149718	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.00
Methylene Chloride	BCM	Ave	++++ 475096	++++ 669926	21351 1327962	146744	286418	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.00
tert-Butyl alcohol	BCM	Ave	++++ 947102	++++ 1471769	++++ 2690824	294004	572145	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.00
Methyl tert-butyl ether	BCM	Ave	++++ 1975578	28213 2818621	74387 5680600	581168	1186227	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
trans-1,2-Dichloroethene	BCM	Ave	++++ 788753	11652 1108915	29628 2189873	237263	475571	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Acrylonitrile	BCM	Ave	++++ 316036	++++ 450337	11233 924437	88837	186728	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.00
n-Hexane	BCM	Ave	++++ 751733	11320 1041087	29445 2093609	217778	441793	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,1-Dichloroethane	BCM	Ave	3389 1057988	16478 1518338	41116 3059145	316815	649312	0.0401 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Vinyl acetate	BCM	Ave	++++ 1200019	++++ 1711893	++++ 3486674	346192	710683	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.00
cis-1,2-Dichloroethene	BCM	Ave	++++ 980984	14993 1416015	38215 2918433	281994	587020	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Methyl Ethyl Ketone	BCM	Ave	++++ 350986	++++ 513694	20748 1023216	99907	208818	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.00
Ethyl acetate	BCM	Ave	++++ 72861	++++ 105391	++++ 216153	20246	42532	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.00
Tetrahydrofuran	DFB	Ave	++++ 513368	++++ 734029	++++ 1485013	153459	308296	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.00

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

Lab Name: TestAmerica Burlington Job No.: 200-21554-1 Analy Batch No.: 69583

SDG No.: _____

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/18/2014 09:42 Calibration End Date: 03/18/2014 16:40 Calibration ID: 26036

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chloroform	BCM	Ave	++++ 2049741	31186 2929800	78125 5896383	602303	1231884	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Cyclohexane	DFB	Ave	++++ 1231641	18485 1762668	48024 3552587	352757	732126	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,1,1-Trichloroethane	DFB	Ave	++++ 2662058	38477 3825219	100051 7710854	773006	1604820	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Carbon tetrachloride	DFB	Ave	9057 3234907	43596 4607835	116734 9431564	920235	1925143	0.0401 15.0	0.200 20.0	0.500 40.0	5.00	10.00
2,2,4-Trimethylpentane	DFB	Ave	++++ 3410430	48904 4788117	129481 9579174	990661	2038101	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Benzene	DFB	Ave	++++ 2798383	42054 4026626	112391 8195140	804505	1661370	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,2-Dichloroethane	DFB	Ave	++++ 1306248	19712 1859756	48796 3701240	394381	797724	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
n-Heptane	DFB	Ave	++++ 1093472	16789 1532398	43011 3020158	321999	661942	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
n-Butanol	DFB	Ave	++++ 376202	++++ 545253	++++ 1027530	114152	218697	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.00
Trichloroethene	DFB	Ave	5081 1690800	23830 2442289	66198 4987397	475168	999506	0.0401 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,2-Dichloropropane	DFB	Ave	++++ 977106	14730 1416549	37712 2861195	288170	586002	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Methyl methacrylate	DFB	Ave	++++ 1103836	++++ 1596837	37867 3268669	304656	646744	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.00
1,4-Dioxane	DFB	Ave	++++ 554620	++++ 796044	++++ 1438986	156549	309787	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.00
Dibromomethane	DFB	Ave	++++ 2368531	29779 3496533	90280 7447254	600831	1331677	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Bromodichloromethane	DFB	Ave	++++ 2888098	38954 4148989	105647 8418584	816562	1706882	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
cis-1,3-Dichloropropene	DFB	Ave	++++ 1863705	23682 2702065	68103 5607337	521704	1098440	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
methyl isobutyl ketone	DFB	Ave	++++ 1687707	++++ 2418457	60143 4813145	491217	1007405	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.00
Toluene	CBZ	Ave	++++ 2827714	38081 4099784	108049 8323022	764912	1646550	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
n-Octane	DFB	Ave	++++ 1786298	28994 2465548	68522 4665401	534374	1088585	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
trans-1,3-Dichloropropene	DFB	Ave	++++ 2088223	28948 3034935	89036 6203417	578372	1239483	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,1,2-Trichloroethane	CBZ	Ave	++++ 1249163	16485 1803469	47530 3642125	349164	732074	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00

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

Lab Name: TestAmerica Burlington Job No.: 200-21554-1 Analy Batch No.: 69583

SDG No.: _____

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/18/2014 09:42 Calibration End Date: 03/18/2014 16:40 Calibration ID: 26036

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Tetrachloroethene	CBZ	Ave	9482 3654072	44193 5368390	136752 11348332	916685	2048531	0.0401 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Methyl Butyl Ketone (2-Hexanone)	CBZ	Ave	++++ 1685045	++++ 2402133	59117 4755940	489293	1008004	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.00
Dibromochloromethane	CBZ	Ave	++++ 4001001	46748 5884399	138118 12210435	1060517	2310784	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,2-Dibromoethane	CBZ	Ave	++++ 2983971	36880 4361203	109295 9038760	793470	1727868	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Chlorobenzene	CBZ	Ave	++++ 4482844	60168 6527834	176457 13702992	1198049	2583151	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Ethylbenzene	CBZ	Ave	++++ 6648515	89919 9641279	253859 19858506	1811692	3873875	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
n-Nonane	CBZ	Ave	++++ 2097528	30686 2921141	82426 5648557	620747	1252845	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
m,p-Xylene	CBZ	Ave	++++ 5833710	75394 8393442	221218 16617718	1584540	3398649	++++ 30.0	0.401 40.0	1.00 80.0	10.00	20.0
Xylene, o-	CBZ	Ave	++++ 2856396	36754 4137056	105847 8482008	761697	1646637	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Styrene	CBZ	Ave	++++ 4532103	51308 6599709	157564 13870189	1198984	2629466	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Bromoform	CBZ	Ave	++++ 4838505	48367 7164917	151426 14843248	1220937	2715969	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Cumene	CBZ	Ave	++++ 8638636	106461 12588419	315300 23402938	2318545	4995109	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,1,2,2-Tetrachloroethane	CBZ	Ave	++++ 3333370	46798 4796715	129867 9380368	960760	1984252	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
n-Propylbenzene	CBZ	Ave	++++ 9376775	127633 13440119	353372 22456625	2584629	5465656	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,2,3-Trichloropropane	CBZ	Ave	++++ 2590452	++++ 3681350	103993 7086669	760035	1556943	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.00
n-Decane	CBZ	Ave	++++ 2625161	++++ 3571110	109292 6381846	815848	1617231	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.00
4-Ethyltoluene	CBZ	Ave	++++ 8570668	115977 12113148	329202 20381969	2403448	5050904	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
2-Chlorotoluene	CBZ	Ave	++++ 6530371	91731 9229458	255453 17074124	1886220	3903850	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,3,5-Trimethylbenzene	CBZ	Ave	++++ 7534716	104311 10938649	274169 20325838	2051127	4349072	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Alpha Methyl Styrene	CBZ	Ave	++++ 3992968	42880 5440923	134876 12338930	1052980	2302482	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
tert-Butylbenzene	CBZ	Ave	++++ 7814140	98732 11354634	289364 20813054	2106452	4508300	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00

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

Lab Name: TestAmerica Burlington Job No.: 200-21554-1 Analy Batch No.: 69583

SDG No.: _____

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/18/2014 09:42 Calibration End Date: 03/18/2014 16:40 Calibration ID: 26036

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2,4-Trimethylbenzene	CBZ	Ave	++++ 7663747	109884 11131626	277006 19827314	2081904	4449383	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
sec-Butylbenzene	CBZ	Ave	++++ 10802817	137389 15624004	399320 23106044	2940059	6262027	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
4-Isopropyltoluene	CBZ	Ave	++++ 10228064	129674 14773079	374207 21948463	2722086	5876655	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,3-Dichlorobenzene	CBZ	Ave	++++ 6562820	76163 9640118	240985 18378150	1693161	3694730	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
1,4-Dichlorobenzene	CBZ	Ave	++++ 6566876	75976 9740625	242550 18567371	1695765	3708759	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Benzyl chloride	CBZ	Ave	++++ 6239168	69148 9848355	219132 18690693	1846791	3937421	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
n-Butylbenzene	CBZ	Ave	++++ 7282002	100697 10073920	289207 17720284	2140730	4400974	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
n-Undecane	CBZ	Ave	++++ 2763255	++++ 3626991	++++ 5698616	898858	1732014	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.00
1,2-Dichlorobenzene	CBZ	Ave	++++ 6196158	73137 9172151	223715 18364719	1604939	3480544	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
n-Dodecane	CBZ	Ave	++++ 2586228	++++ 3441646	++++ 3009118	691167	1425197	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.00
1,2,4-Trichlorobenzene	CBZ	Ave	++++ 5648414	++++ 8136405	187836 10286355	1299301	3002882	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.00
Hexachlorobutadiene	CBZ	Ave	++++ 4727211	60053 6871598	178170 7798873	1272119	2722961	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00
Naphthalene	CBZ	Ave	++++ 11293279	++++ 15186624	328732 20138429	2516517	5744919	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.00
1,2,3-Trichlorobenzene	CBZ	Ave	++++ 5146910	42316 7289294	167553 7052922	1151653	2671513	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.00

Curve Type Legend:

Ave = Average ISTD

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-21554-1

SDG No.: _____

Lab Sample ID: ICV 200-69583/13 Calibration Date: 03/18/2014 19:09

Instrument ID: CHC.i Calib Start Date: 03/18/2014 09:42

GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 03/18/2014 16:40

Lab File ID: 6584_13.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.3474	0.2752		7.92	10.0	-20.8	30.0
Dichlorodifluoromethane	Ave	2.576	2.210		8.58	10.0	-14.2	30.0
Freon 22	Ave	0.8659	0.7282		8.41	10.0	-15.9	30.0
1,2-Dichlorotetrafluoroethane	Ave	2.252	2.056		9.13	10.0	-8.7	30.0
Chloromethane	Ave	0.4260	0.3487		8.19	10.0	-18.1	30.0
n-Butane	Ave	0.6804	0.5684		8.35	10.0	-16.5	30.0
Vinyl chloride	Ave	0.6474	0.4951		7.65	10.0	-23.5	30.0
1,3-Butadiene	Ave	0.4221	0.3339		7.91	10.0	-20.9	30.0
Bromomethane	Ave	0.8427	0.6939		8.23	10.0	-17.7	30.0
Chloroethane	Ave	0.2775	0.2350		8.47	10.0	-15.3	30.0
Isopentane	Ave	0.4748	0.3981		8.38	10.0	-16.2	30.0
Bromoethene (Vinyl Bromide)	Ave	1.033	0.8790		8.51	10.0	-14.9	30.0
Trichlorofluoromethane	Ave	3.192	2.618		8.20	10.0	-18.0	30.0
n-Pentane	Ave	0.7211	0.6838		9.48	10.0	-5.2	30.0
Ethanol	Ave	0.1583	0.1389		13.2	15.0	-12.3	30.0
Ethyl ether	Ave	0.3903	0.3686		9.44	10.0	-5.6	30.0
Acrolein	Ave	0.1760	0.1731		9.83	10.0	-1.7	30.0
Freon TF	Ave	1.926	1.657		8.60	10.0	-14.0	30.0
1,1-Dichloroethene	Ave	0.8770	0.7547		8.60	10.0	-13.9	30.0
Acetone	Ave	0.7425	0.6207		8.36	10.0	-16.4	30.0
Carbon disulfide	Ave	1.832	1.859		10.1	10.0	1.5	30.0
Isopropyl alcohol	Ave	0.5450	0.4471		8.20	10.0	-18.0	30.0
3-Chloropropene	Ave	0.5807	0.4558		7.85	10.0	-21.5	30.0
Acetonitrile	Ave	0.2661	0.2625		9.86	10.0	-1.4	30.0
Methylene Chloride	Ave	0.5364	0.4605		8.58	10.0	-14.1	30.0
tert-Butyl alcohol	Ave	1.033	0.8670		8.39	10.0	-16.0	30.0
Methyl tert-butyl ether	Ave	2.232	1.909		8.55	10.0	-14.5	30.0
trans-1,2-Dichloroethene	Ave	0.8935	0.8086		9.05	10.0	-9.5	30.0
Acrylonitrile	Ave	0.3373	0.3246		9.62	10.0	-3.8	30.0
n-Hexane	Ave	0.8515	0.7719		9.06	10.0	-9.4	30.0
1,1-Dichloroethane	Ave	1.275	1.047		8.21	10.0	-17.9	30.0
Vinyl acetate	Ave	1.266	1.105		8.73	10.0	-12.7	30.0
cis-1,2-Dichloroethene	Ave	1.131	0.9796		8.66	10.0	-13.4	30.0
Methyl Ethyl Ketone	Ave	0.4221	0.3552		8.41	10.0	-15.9	30.0
Ethyl acetate	Ave	0.0766	0.0781		10.2	10.0	1.9	30.0
Tetrahydrofuran	Ave	0.1007	0.0917		9.11	10.0	-8.9	30.0
Chloroform	Ave	2.347	2.038		8.68	10.0	-13.2	30.0
Cyclohexane	Ave	0.2591	0.2216		8.55	10.0	-14.5	30.0
1,1,1-Trichloroethane	Ave	0.5558	0.4674		8.41	10.0	-15.9	30.0
Carbon tetrachloride	Ave	0.6775	0.5587		8.25	10.0	-17.5	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-21554-1
 SDG No.: _____
 Lab Sample ID: ICV 200-69583/13 Calibration Date: 03/18/2014 19:09
 Instrument ID: CHC.i Calib Start Date: 03/18/2014 09:42
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 03/18/2014 16:40
 Lab File ID: 6584_13.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,2,4-Trimethylpentane	Ave	0.7063	0.5934		8.40	10.0	-16.0	30.0
Benzene	Ave	0.5935	0.5053		8.51	10.0	-14.9	30.0
1,2-Dichloroethane	Ave	0.2755	0.2247		8.15	10.0	-18.4	30.0
n-Heptane	Ave	0.2309	0.1879		8.14	10.0	-18.6	30.0
n-Butanol	Ave	0.0730	0.0674		9.24	10.0	-7.6	30.0
Trichloroethene	Ave	0.3644	0.3095		8.49	10.0	-15.1	30.0
1,2-Dichloropropane	Ave	0.2073	0.1748		8.43	10.0	-15.7	30.0
Methyl methacrylate	Ave	0.2148	0.2008		9.35	10.0	-6.5	30.0
1,4-Dioxane	Ave	0.1040	0.0965		9.27	10.0	-7.2	30.0
Dibromomethane	Ave	0.4782	0.4314		9.02	10.0	-9.8	30.0
Bromodichloromethane	Ave	0.5900	0.4964		8.41	10.0	-15.9	30.0
cis-1,3-Dichloropropene	Ave	0.3783	0.3367		8.90	10.0	-11.0	30.0
methyl isobutyl ketone	Ave	0.3319	0.2866		8.63	10.0	-13.7	30.0
Toluene	Ave	0.5698	0.5091		8.93	10.0	-10.6	30.0
n-Octane	Ave	0.3778	0.3081		8.15	10.0	-18.4	30.0
trans-1,3-Dichloropropene	Ave	0.4400	0.3679		8.36	10.0	-16.4	30.0
1,1,2-Trichloroethane	Ave	0.2515	0.2217		8.81	10.0	-11.9	30.0
Tetrachloroethene	Ave	0.7342	0.6571		8.95	10.0	-10.5	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.3229	0.2809		8.70	10.0	-13.0	30.0
Dibromochloromethane	Ave	0.7776	0.6736		8.66	10.0	-13.4	30.0
1,2-Dibromoethane	Ave	0.5898	0.5286		8.96	10.0	-10.4	30.0
Chlorobenzene	Ave	0.9095	0.7982		8.77	10.0	-12.2	30.0
Ethylbenzene	Ave	1.345	1.150		8.55	10.0	-14.5	30.0
n-Nonane	Ave	0.4307	0.3597		8.35	10.0	-16.5	30.0
m,p-Xylene	Ave	0.5802	0.5139		17.7	20.0	-11.4	30.0
Xylene, o-	Ave	0.5671	0.4937		8.70	10.0	-12.9	30.0
Styrene	Ave	0.8767	0.7827		8.93	10.0	-10.7	30.0
Bromoform	Ave	0.8979	0.8014		8.92	10.0	-10.8	30.0
Cumene	Ave	1.682	1.466		8.71	10.0	-12.9	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6820	0.5898		8.65	10.0	-13.5	30.0
n-Propylbenzene	Ave	1.846	1.575		8.53	10.0	-14.7	30.0
1,2,3-Trichloropropane	Ave	0.5078	0.4396		8.66	10.0	-13.4	30.0
n-Decane	Ave	0.5136	0.4530		8.82	10.0	-11.8	30.0
4-Ethyltoluene	Ave	1.692	1.493		8.82	10.0	-11.8	30.0
2-Chlorotoluene	Ave	1.323	1.105		8.35	10.0	-16.5	30.0
1,3,5-Trimethylbenzene	Ave	1.498	1.277		8.53	10.0	-14.7	30.0
Alpha Methyl Styrene	Ave	0.7556	0.7036		9.31	10.0	-6.9	30.0
tert-Butylbenzene	Ave	1.528	1.319		8.63	10.0	-13.7	30.0
1,2,4-Trimethylbenzene	Ave	1.526	1.279		8.38	10.0	-16.2	30.0
sec-Butylbenzene	Ave	2.067	1.810		8.75	10.0	-12.5	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-21554-1
 SDG No.: _____
 Lab Sample ID: ICV 200-69583/13 Calibration Date: 03/18/2014 19:09
 Instrument ID: CHC.i Calib Start Date: 03/18/2014 09:42
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 03/18/2014 16:40
 Lab File ID: 6584_13.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	1.945	1.700		8.74	10.0	-12.6	30.0
1,3-Dichlorobenzene	Ave	1.263	1.093		8.66	10.0	-13.4	30.0
1,4-Dichlorobenzene	Ave	1.268	1.093		8.62	10.0	-13.8	30.0
Benzyl chloride	Ave	1.250	1.019		8.15	10.0	-18.5	30.0
n-Butylbenzene	Ave	1.465	1.229		8.39	10.0	-16.1	30.0
n-Undecane	Ave	0.5065	0.4870		9.61	10.0	-3.8	30.0
1,2-Dichlorobenzene	Ave	1.203	1.029		8.55	10.0	-14.4	30.0
n-Dodecane	Ave	0.4140	0.3932		9.49	10.0	-5.0	30.0
1,2,4-Trichlorobenzene	Ave	0.9580	0.8525		8.90	10.0	-11.0	30.0
Hexachlorobutadiene	Ave	0.8855	0.7759		8.76	10.0	-12.4	30.0
Naphthalene	Ave	1.818	1.527		8.40	10.0	-16.0	30.0
1,2,3-Trichlorobenzene	Ave	0.8287	0.7404		8.93	10.0	-10.7	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-21554-1

SDG No.: _____

Lab Sample ID: CCVIS 200-70021/2 Calibration Date: 03/28/2014 10:30

Instrument ID: CHC.i Calib Start Date: 03/18/2014 09:42

GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 03/18/2014 16:40

Lab File ID: 6759_02.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.3474	0.3522		10.1	10.0	1.4	30.0
Dichlorodifluoromethane	Ave	2.576	2.815		10.9	10.0	9.3	30.0
Freon 22	Ave	0.8659	0.9433		10.9	10.0	8.9	30.0
1,2-Dichlorotetrafluoroethane	Ave	2.252	2.295		10.2	10.0	1.9	30.0
Chloromethane	Ave	0.4260	0.4507		10.6	10.0	5.8	30.0
n-Butane	Ave	0.6804	0.6989		10.3	10.0	2.7	30.0
Vinyl chloride	Ave	0.6474	0.6207		9.59	10.0	-4.1	30.0
1,3-Butadiene	Ave	0.4221	0.4334		10.3	10.0	2.7	30.0
Bromomethane	Ave	0.8427	0.8300		9.85	10.0	-1.5	30.0
Chloroethane	Ave	0.2775	0.2900		10.4	10.0	4.5	30.0
Isopentane	Ave	0.4748	0.4365		9.19	10.0	-8.1	30.0
Bromoethene (Vinyl Bromide)	Ave	1.033	1.016		9.84	10.0	-1.6	30.0
Trichlorofluoromethane	Ave	3.192	3.046		9.54	10.0	-4.6	30.0
n-Pentane	Ave	0.7211	0.7098		9.84	10.0	-1.6	30.0
Ethanol	Ave	0.1583	0.1978		18.9	15.0	25.0	30.0
Ethyl ether	Ave	0.3903	0.3868		9.91	10.0	-0.9	30.0
Acrolein	Ave	0.1760	0.1762		11.2	10.0	0.1	30.0
Freon TF	Ave	1.926	1.851		9.61	10.0	-3.9	30.0
1,1-Dichloroethene	Ave	0.8770	0.8626		9.83	10.0	-1.6	30.0
Acetone	Ave	0.7425	0.8333		11.2	10.0	12.2	30.0
Carbon disulfide	Ave	1.832	1.865		10.2	10.0	1.8	30.0
Isopropyl alcohol	Ave	0.5450	0.5468		10.0	10.0	0.3	30.0
3-Chloropropene	Ave	0.5807	0.5511		9.49	10.0	-5.1	30.0
Acetonitrile	Ave	0.2661	0.2655		9.97	10.0	-0.3	30.0
Methylene Chloride	Ave	0.5364	0.5251		9.79	10.0	-2.1	30.0
tert-Butyl alcohol	Ave	1.033	1.058		10.2	10.0	2.4	30.0
Methyl tert-butyl ether	Ave	2.232	2.192		9.82	10.0	-1.8	30.0
trans-1,2-Dichloroethene	Ave	0.8935	0.8793		9.84	10.0	-1.6	30.0
Acrylonitrile	Ave	0.3373	0.3415		10.1	10.0	1.3	30.0
n-Hexane	Ave	0.8515	0.8084		9.49	10.0	-5.1	30.0
1,1-Dichloroethane	Ave	1.275	1.185		9.29	10.0	-7.1	30.0
Vinyl acetate	Ave	1.266	1.278		10.1	10.0	1.0	30.0
cis-1,2-Dichloroethene	Ave	1.131	1.075		9.51	10.0	-4.9	30.0
Methyl Ethyl Ketone	Ave	0.4221	0.3936		9.32	10.0	-6.7	30.0
Ethyl acetate	Ave	0.0766	0.0759		9.90	10.0	-0.9	30.0
Tetrahydrofuran	Ave	0.1007	0.1042		9.05	10.0	3.6	30.0
Chloroform	Ave	2.347	2.258		9.62	10.0	-3.8	30.0
Cyclohexane	Ave	0.2591	0.2471		9.53	10.0	-4.7	30.0
1,1,1-Trichloroethane	Ave	0.5558	0.5306		9.55	10.0	-4.5	30.0
Carbon tetrachloride	Ave	0.6775	0.6278		9.26	10.0	-7.3	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-21554-1
 SDG No.: _____
 Lab Sample ID: CCVIS 200-70021/2 Calibration Date: 03/28/2014 10:30
 Instrument ID: CHC.i Calib Start Date: 03/18/2014 09:42
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 03/18/2014 16:40
 Lab File ID: 6759_02.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,2,4-Trimethylpentane	Ave	0.7063	0.6900		9.77	10.0	-2.3	30.0
Benzene	Ave	0.5935	0.5682		9.57	10.0	-4.3	30.0
1,2-Dichloroethane	Ave	0.2755	0.2697		9.79	10.0	-2.1	30.0
n-Heptane	Ave	0.2309	0.2247		9.73	10.0	-2.7	30.0
n-Butanol	Ave	0.0730	0.0730		9.99	10.0	-0.0	30.0
Trichloroethene	Ave	0.3644	0.3346		9.18	10.0	-8.2	30.0
1,2-Dichloropropane	Ave	0.2073	0.2046		9.87	10.0	-1.3	30.0
Methyl methacrylate	Ave	0.2148	0.2176		10.1	10.0	1.3	30.0
1,4-Dioxane	Ave	0.1040	0.1041		10.0	10.0	0.2	30.0
Dibromomethane	Ave	0.4782	0.4174		8.73	10.0	-12.7	30.0
Bromodichloromethane	Ave	0.5900	0.5736		9.72	10.0	-2.8	30.0
cis-1,3-Dichloropropene	Ave	0.3783	0.3756		9.93	10.0	-0.7	30.0
methyl isobutyl ketone	Ave	0.3319	0.3485		10.5	10.0	5.0	30.0
Toluene	Ave	0.5698	0.5330		9.35	10.0	-6.5	30.0
n-Octane	Ave	0.3778	0.3749		9.92	10.0	-0.7	30.0
trans-1,3-Dichloropropene	Ave	0.4400	0.4228		9.61	10.0	-3.9	30.0
1,1,2-Trichloroethane	Ave	0.2515	0.2415		9.60	10.0	-4.0	30.0
Tetrachloroethene	Ave	0.7342	0.6282		8.55	10.0	-14.4	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.3229	0.3302		10.2	10.0	2.3	30.0
Dibromochloromethane	Ave	0.7776	0.7226		9.29	10.0	-7.1	30.0
1,2-Dibromoethane	Ave	0.5898	0.5462		9.26	10.0	-7.4	30.0
Chlorobenzene	Ave	0.9095	0.8272		9.09	10.0	-9.0	30.0
Ethylbenzene	Ave	1.345	1.255		9.34	10.0	-6.6	30.0
n-Nonane	Ave	0.4307	0.4177		9.70	10.0	-3.0	30.0
m,p-Xylene	Ave	0.5802	0.5481		18.9	20.0	-5.5	30.0
Xylene, o-	Ave	0.5671	0.5363		9.45	10.0	-5.4	30.0
Styrene	Ave	0.8767	0.8283		9.45	10.0	-5.5	30.0
Bromoform	Ave	0.8979	0.8443		9.40	10.0	-6.0	30.0
Cumene	Ave	1.682	1.615		9.60	10.0	-4.0	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6820	0.6607		9.69	10.0	-3.1	30.0
n-Propylbenzene	Ave	1.846	1.805		9.78	10.0	-2.2	30.0
1,2,3-Trichloropropane	Ave	0.5078	0.5198		10.2	10.0	2.4	30.0
n-Decane	Ave	0.5136	0.5424		10.6	10.0	5.6	30.0
4-Ethyltoluene	Ave	1.692	1.656		9.79	10.0	-2.1	30.0
2-Chlorotoluene	Ave	1.323	1.292		9.76	10.0	-2.4	30.0
1,3,5-Trimethylbenzene	Ave	1.498	1.421		9.48	10.0	-5.2	30.0
Alpha Methyl Styrene	Ave	0.7556	0.6866		9.08	10.0	-9.1	30.0
tert-Butylbenzene	Ave	1.528	1.459		9.54	10.0	-4.6	30.0
1,2,4-Trimethylbenzene	Ave	1.526	1.455		9.53	10.0	-4.7	30.0
sec-Butylbenzene	Ave	2.067	2.055		9.94	10.0	-0.6	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-21554-1
 SDG No.: _____
 Lab Sample ID: CCVIS 200-70021/2 Calibration Date: 03/28/2014 10:30
 Instrument ID: CHC.i Calib Start Date: 03/18/2014 09:42
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 03/18/2014 16:40
 Lab File ID: 6759_02.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	1.945	1.901		9.77	10.0	-2.3	30.0
1,3-Dichlorobenzene	Ave	1.263	1.186		9.39	10.0	-6.1	30.0
1,4-Dichlorobenzene	Ave	1.268	1.188		9.37	10.0	-6.3	30.0
Benzyl chloride	Ave	1.250	1.308		10.5	10.0	4.7	30.0
n-Butylbenzene	Ave	1.465	1.455		9.93	10.0	-0.7	30.0
n-Undecane	Ave	0.5065	0.5677		10.5	10.0	12.1	30.0
1,2-Dichlorobenzene	Ave	1.203	1.126		9.36	10.0	-6.4	30.0
n-Dodecane	Ave	0.4140	0.4417		10.7	10.0	6.7	30.0
1,2,4-Trichlorobenzene	Ave	0.9580	0.9391		9.80	10.0	-2.0	30.0
Hexachlorobutadiene	Ave	0.8855	0.8231		9.29	10.0	-7.0	30.0
Naphthalene	Ave	1.818	1.836		10.1	10.0	1.0	30.0
1,2,3-Trichlorobenzene	Ave	0.8287	0.8294		10.0	10.0	0.0	30.0

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BurlingtonJob No.: 200-21554-1

SDG No.: _____

Instrument ID: CHC.iStart Date: 03/18/2014 07:56Analysis Batch Number: 69583End Date: 03/19/2014 07:29

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-69583/1		03/18/2014 07:56	1	6584_01.D	RTX-624 0.32 (mm)
VIBLK 200-69583/2		03/18/2014 08:50	1		RTX-624 0.32 (mm)
IC 200-69583/3		03/18/2014 09:42	1	6584_03.D	RTX-624 0.32 (mm)
IC 200-69583/4		03/18/2014 10:34	1	6584_04.D	RTX-624 0.32 (mm)
ZZZZZ		03/18/2014 11:26	1		RTX-624 0.32 (mm)
IC 200-69583/6		03/18/2014 12:18	1	6584_06.D	RTX-624 0.32 (mm)
ICIS 200-69583/7		03/18/2014 13:10	1	6584_07.D	RTX-624 0.32 (mm)
IC 200-69583/8		03/18/2014 14:03	1	6584_08.D	RTX-624 0.32 (mm)
IC 200-69583/17		03/18/2014 14:55	1	6584_17.D	RTX-624 0.32 (mm)
IC 200-69583/9		03/18/2014 15:47	1	6584_09.D	RTX-624 0.32 (mm)
IC 200-69583/10		03/18/2014 16:40	1	6584_10.D	RTX-624 0.32 (mm)
VIBLK 200-69583/11		03/18/2014 17:25	1		RTX-624 0.32 (mm)
VIBLK 200-69583/12		03/18/2014 18:17	1		RTX-624 0.32 (mm)
ICV 200-69583/13		03/18/2014 19:09	1	6584_13.D	RTX-624 0.32 (mm)
VIBLK 200-69583/14		03/18/2014 20:01	1		RTX-624 0.32 (mm)
ZZZZZ		03/18/2014 20:53	1		RTX-624 0.32 (mm)
ZZZZZ		03/18/2014 21:44	1		RTX-624 0.32 (mm)
ZZZZZ		03/18/2014 22:43	0.2		RTX-624 0.32 (mm)
ZZZZZ		03/18/2014 23:42	0.2		RTX-624 0.32 (mm)
ZZZZZ		03/19/2014 00:40	0.2		RTX-624 0.32 (mm)
ZZZZZ		03/19/2014 01:39	0.2		RTX-624 0.32 (mm)
ZZZZZ		03/19/2014 02:37	0.2		RTX-624 0.32 (mm)
ZZZZZ		03/19/2014 03:36	0.2		RTX-624 0.32 (mm)
ZZZZZ		03/19/2014 04:34	0.2		RTX-624 0.32 (mm)
ZZZZZ		03/19/2014 05:32	0.2		RTX-624 0.32 (mm)
ZZZZZ		03/19/2014 06:30	0.2		RTX-624 0.32 (mm)
ZZZZZ		03/19/2014 07:29	0.2		RTX-624 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BurlingtonJob No.: 200-21554-1

SDG No.: _____

Instrument ID: CHC.iStart Date: 03/28/2014 09:42Analysis Batch Number: 70021End Date: 03/29/2014 07:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-70021/1		03/28/2014 09:42	1	6759_01.D	RTX-624 0.32 (mm)
CCVIS 200-70021/2		03/28/2014 10:30	1	6759_02.D	RTX-624 0.32 (mm)
LCS 200-70021/3		03/28/2014 11:22	1	6759_03.D	RTX-624 0.32 (mm)
MB 200-70021/4		03/28/2014 12:14	1	6759_04.D	RTX-624 0.32 (mm)
200-21554-9	4373	03/28/2014 13:13	0.2	6759_05.D	RTX-624 0.32 (mm)
ZZZZZ		03/28/2014 14:11	0.2		RTX-624 0.32 (mm)
ZZZZZ		03/28/2014 15:02	1		RTX-624 0.32 (mm)
ZZZZZ		03/28/2014 15:55	1		RTX-624 0.32 (mm)
ZZZZZ		03/28/2014 16:47	1		RTX-624 0.32 (mm)
ZZZZZ		03/28/2014 17:39	1		RTX-624 0.32 (mm)
ZZZZZ		03/28/2014 18:31	10		RTX-624 0.32 (mm)
ZZZZZ		03/28/2014 19:23	10		RTX-624 0.32 (mm)
ZZZZZ		03/28/2014 20:15	1		RTX-624 0.32 (mm)
ZZZZZ		03/28/2014 21:08	1		RTX-624 0.32 (mm)
ZZZZZ		03/28/2014 21:59	10		RTX-624 0.32 (mm)
ZZZZZ		03/28/2014 22:51	10		RTX-624 0.32 (mm)
ZZZZZ		03/28/2014 23:44	10		RTX-624 0.32 (mm)
ZZZZZ		03/29/2014 00:36	10		RTX-624 0.32 (mm)
ZZZZZ		03/29/2014 01:28	10		RTX-624 0.32 (mm)
ZZZZZ		03/29/2014 02:20	10		RTX-624 0.32 (mm)
ZZZZZ		03/29/2014 03:12	10		RTX-624 0.32 (mm)
ZZZZZ		03/29/2014 04:04	10		RTX-624 0.32 (mm)
ZZZZZ		03/29/2014 04:56	10		RTX-624 0.32 (mm)
ZZZZZ		03/29/2014 05:48	10		RTX-624 0.32 (mm)
ZZZZZ		03/29/2014 06:46	0.2		RTX-624 0.32 (mm)
ZZZZZ		03/29/2014 07:38	1.5		RTX-624 0.32 (mm)

phone 802-860-1990



Water Samples Chain of Custody Record

if Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

[illegible]

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 480-57563-1

Login Number: 57563
List Number: 2
Creator: Marion, Greg T

List Source: TestAmerica Burlington
List Creation: 04/10/14 08:43 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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 $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

TestAmerica Burlington

30 Community Drive

Suite 11

South Burlington, VT 05403

phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information Company: <u>AECOM</u> Address: <u>100 Corporate Parkway Suite 391</u> City/State/Zip: <u>Amherst, NY 14226</u> Phone: <u>716-836-4506</u> FAX: <u></u> Project Name: <u>Soil Aviation 2014</u> Site: <u></u> PO #: <u></u>		Project Manager: <u>Vincent Zach</u> Phone: <u>716 836 4506</u> Email: <u>vincent.zach@aecom.com</u> Site Contact: <u>B. D. Zach</u> TA Contact: <u>B. Fisher</u> Analysis Turnaround Time: <u>STD</u> Standard (Specify): <u></u> Rush (Specify): <u></u>		Samples Collected By: <u>Dur</u> (of) <u>1</u> COCs															
Sample Identification <u>AS Effluent 2014</u> <u>LRP Effluent 2014</u> <u></u> <u></u> <u></u> <u></u> <u></u>	Sample Date(s) <u>4/7/14</u> <u>4/7/14</u> <u></u> <u></u> <u></u> <u></u> <u></u>	Time Start <u>0800</u> <u>0800</u> <u></u> <u></u> <u></u> <u></u> <u></u>	Time Stop <u>0800</u> <u>0800</u> <u></u> <u></u> <u></u> <u></u> <u></u>	Canister Vacuum in Field, "Hg (Start) <u>-29.9</u> <u>-29.9</u> <u></u> <u></u> <u></u> <u></u> <u></u>	Canister Vacuum in Field, "Hg (Stop) <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u>	Flow Controller ID <u>NA</u> <u>NA</u> <u></u> <u></u> <u></u> <u></u> <u></u>	Canister ID <u>3614</u> <u>5163</u> <u></u> <u></u> <u></u> <u></u> <u></u>	TO-15 <u>X</u> <u>X</u> <u></u> <u></u> <u></u> <u></u> <u></u>	MA-APH <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u>	EPA 3C <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u>	EPA 25C <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u>	ASTM D-1946 <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u>	Other (Please specify in notes section) <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u>	Sample Type <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u>	Indoor Air <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u>	Ambient Air <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u>	Soil Gas <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u>	Landfill Gas <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u>	Other (Please specify in notes section) <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u>
	Special Instructions/QC Requirements & Comments:  480-57563 COC																		
Samples Shipped by: <u>Dur</u>		Date/Time: <u>4/7/14 0830hrs</u>		Samples Received by: <u>TA BURLINGHAM</u>		Date/Time: <u>4/8/14 0930hrs</u>		11:20											
Samples Relinquished by:		Date/Time:		Reviewed by:		Date/Time:		Relinquished by:											
Relinquished by:		Date/Time:		Received by:		Date/Time:		Relinquished by:											
Lab Use Only		Shipper Name:		Opened by:		Condition:		Relinquished by:											

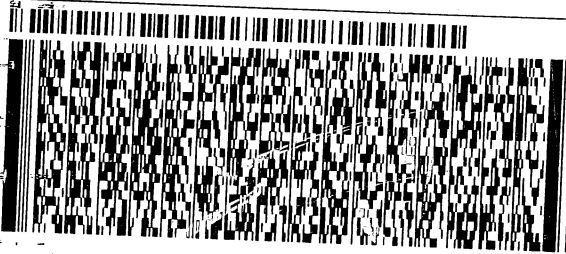
ORIGIN ID:DKKA (716) 691-2600
KEN KINECKI
TESTAMERICA
10 HAZELWOOD DR

AMHERST, NY 14228
UNITED STATES US

SHIP DATE: 08APR14
ACTWGT: 14.0 LB MAN
CAD: 735603/CAFE2704
DIMS: 21x17x10 IN

BILL RECIPIENT

TO MARK PHILLIPS
TA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990 REF: BURLINGTON
DEPT: SAMPLE CONTROL



FedEx
Express



TRK#
0201 4485 0268 8967

WED - 09 APR 10:30A
PRIORITY OVERNIGHT

EK BTVA

05403
VT-US BTV



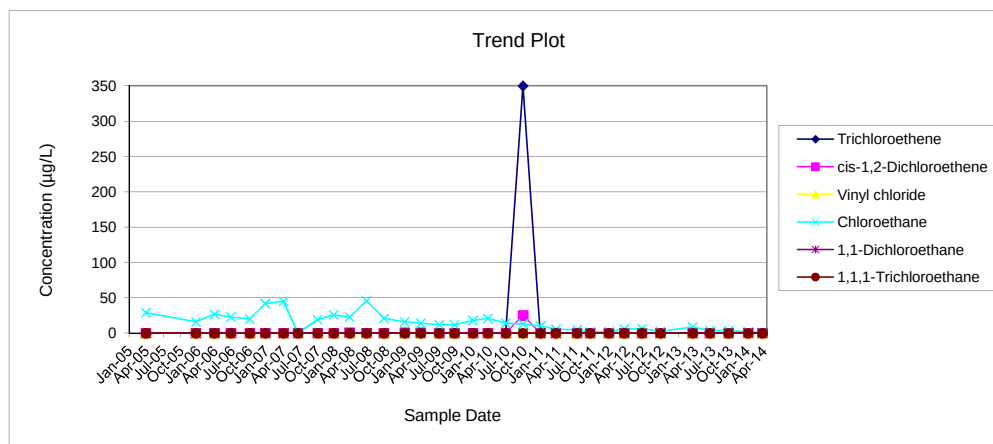
Appendix E

Current and Historical Summary of VOCs in Groundwater

MONITORING WELL MW-2
SUMMARY OF VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Sample Date	Analytical Results (µg/L)					
	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane
4/14/2005	< 10	< 10	< 10	29	< 10	<10
1/5/2006	< 25	< 25	< 25	16	< 25	< 25
4/14/2006	< 25	< 25	< 25	27	< 25	< 25
7/10/2006	< 25	< 25	< 25	23	< 25	< 25
10/19/2006	< 5	< 5	< 5	20	< 5	< 5
1/9/2007	< 5	< 5	< 5	42	< 5	< 5
4/16/2007	< 20	< 20	< 20	45	< 20	< 20
7/2/2007	< 5	< 5	< 5	< 5	< 5	< 5
10/15/2007	< 5	< 5	< 5	19	< 5	< 5
1/8/2008	< 5	< 5	< 5	26	< 5	< 5
4/2/2008	< 5	0.48	< 5	23	1	< 5
7/1/2008	< 5	< 5	< 5	46	0.65	< 5
10/1/2008	< 5	< 5	< 5	21	< 5	< 5
1/20/2009	< 5	0	< 5	16	< 5	< 5
4/15/2009	< 5	0	< 5	14	< 5	< 5
7/22/2009	< 5	< 5	< 5	12	< 5	< 5
10/12/2009	< 5	< 5	< 5	12	< 5	< 5
1/18/2010	< 25	< 25	< 25	18	< 25	< 25
4/7/2010	< 25	< 25	< 25	21	< 25	< 25
7/12/2010	< 25	< 25	< 25	14	< 25	< 25
10/11/2010	350	25	< 25	13	< 25	< 25
1/12/2011	<1	<1	<1	10	<1	<1
4/4/2011	<1	<1	<1	5.4	<1	<1
7/25/2011	<1	<1	<1	4.5	<1	<1
10/3/2011	<1	<1	<1	2.1	<1	<1
1/11/2012	<1	<1	<1	2	<1	<1
4/2/2012	<1	<1	<1	5.8	<1	<1
7/5/2012	<1	<1	<1	6.3	<1	<1
10/11/2012	<1	<1	<1	2.4	<1	<1
4/1/2013	<1	<1	<1	8.8	<1	<1
7/1/2013	<1	<1	<1	3.6	<1	<1
10/9/2013	<1	<1	<1	3.9	<1	<1
1/21/2014	<1	<1	<1	1.9	0.67	<1
4/7/2014	<1	<1	<1	0.68	<1	<1

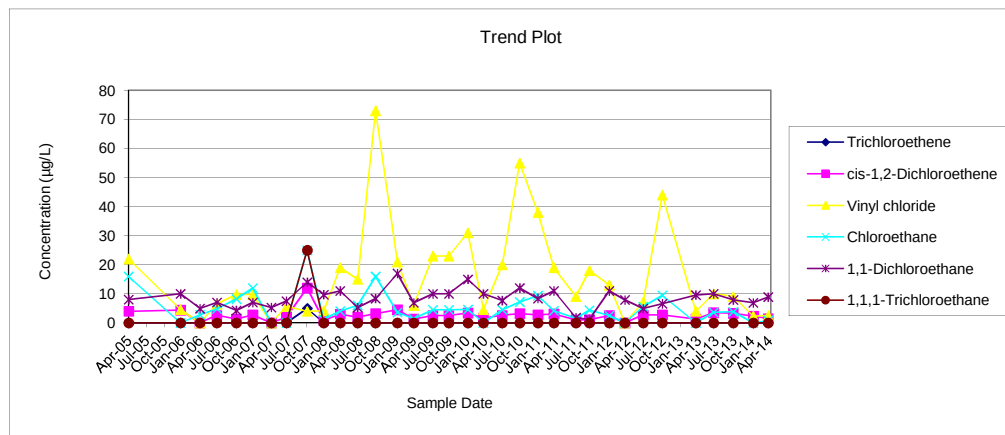
MONITORING WELL MW-2
SUMMARY OF VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York



**MONITORING WELL MW-3
SUMMARY OF VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York**

Sample Date	Analytical Results (µg/L)					
	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane
4/14/2005	< 10	4	22	16	8	<10
1/5/2006	< 25	4.4	4.6	< 25	10	< 25
4/14/2006	< 25	< 25	< 25	2.8	4.9	< 25
7/10/2006	< 25	2.6	6.5	4.8	7	< 25
10/18/2006	< 5	1.3	9.8	8.2	4.3	< 5
1/10/2007	< 5	2.8	9.8	12	7	< 5
4/16/2007	< 20	< 20	< 20	< 20	5.3	< 20
7/2/2007	< 5	2	5.7	< 5	7.5	< 5
10/17/2007	5	12	4	25	14	25
1/9/2008	< 5	0.9	4.2	1.2	9.7	<5
4/3/2008	<5	3	19	4.1	11	<5
7/1/2008	<5	2	15	6	5.3	<5
10/1/2008	<5	3.2	73	16	8.4	<5
1/21/2009	<5	4.5	21	3.6	17	<5
4/15/2009	<5	1.3	6	1.4	6.9	<5
7/22/2009	<5	2.5	23	4.5	10	<5
10/12/2009	<5	2.5	23	4.5	10	<5
1/18/2010	<5	3.4	31	4.6	15	<5
4/7/2010	<5	1.7	4.6	<5	10	<5
7/13/2010	<5	2.6	20	4.5	7.7	<5
10/11/2010	<5	3.2	55	7.2	12	<5
1/12/2011	<1	2.8	38	9.4	8.4	<1
4/4/2011	<1	3.1	19	4.2	11	<1
7/26/2011	<1	0.98	9.1	1.5	1.8	<1
10/3/2011	<1	1.1	18	4.4	1.2	<1
1/13/2012	<1	2.5	13	2.5	11	<1
4/2/2012	<1	<1	<1	<1	7.9	<1
7/5/2012	<1	2.7	7.2	5.6	4.9	<1
10/11/2012	<1	2.8	44	9.5	6.6	<1
4/1/2013	<1	1.3	4	<1	9.6	<1
7/1/2013	<1	3.5	10	3.6	10	<1
10/10/2013	<1	3.3	9.1	3.8	7.9	<1
1/21/2014	<1	2.3	2.3	<1	6.9	<1
4/7/2014	<1	1.5	2.5	0.82	8.9	<1

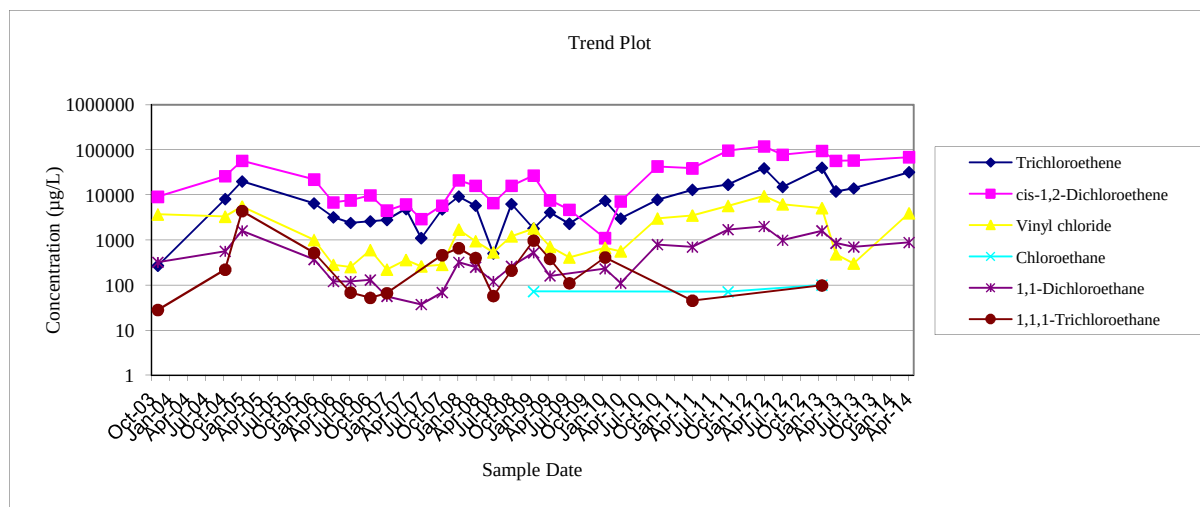
**MONITORING WELL MW-3
SUMMARY OF VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York**



MONITORING WELL MW-4
SUMMARY OF VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Sample Date	Analytical Results (µg/L)					
	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1,1-Tetrachloroethane
11/7/2003	270	9,100	3,700	< 10	320	28
10/13/2004	8,100	26,000	3,300	< 1000	560	220
1/7/2005	20,000	57,000	5,500	< 2000	1,600	4,400
1/6/2006	6,500	22,000	1,000	< 2000	370	520
4/14/2006	3,200	6,800	280	<500	120	<500
7/10/2006	2,400	7,600	250	<500	120	68
10/18/2006	2,600	9,800	600	<5	130	52
1/10/2007	2,800	4,500	220	<400	56	66
4/17/2007	4,900	6,200	360	<500	<500	<500
7/3/2007	1,100	2,900	260	<200	37	<200
10/17/2007	4,800	5,800	280	<500	68	460
1/9/2008	9,200	21,000	1,700	<500	320	660
4/3/2008	5,800	16,000	940	<1200	250	400
7/2/2008	500	6,600	530	<500	120	57
10/2/2008	6,300	16,000	1,200	<500	260	210
1/22/2009	1,800	27,000	1,800	72	520	970
4/15/2009	4,100	7,600	710	<200	160	380
7/22/2009	2,300	4,700	410	<250	<250	110
1/19/2010	7,400	1,100	670	<1000	230	410
4/8/2010	3,000	7,200	560	<500	110	<500
10/11/2010	7,800	43,000	3,000	<4,000	790	<4,000
4/6/2011	13,000	39,000	3,500	<40	700	45
10/4/2011	17,000	97,000	5,700	71	1700	<1
4/3/2012	39,000	120,000	9,400	<200	2000	<200
7/6/2012	15,000	78,000	6,200	<1000	990	<1000
1/21/2013	40,000	95,000	5,100	100	1600	98
4/2/2013	12,000	57,000	480	<40	850	<40
7/1/2013	14,000	58,000	300	<100	700	<100
4/7/2014	32,000	69,000	3,900	<1000	880	<1000

**MONITORING WELL MW-4
SUMMARY OF VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York**

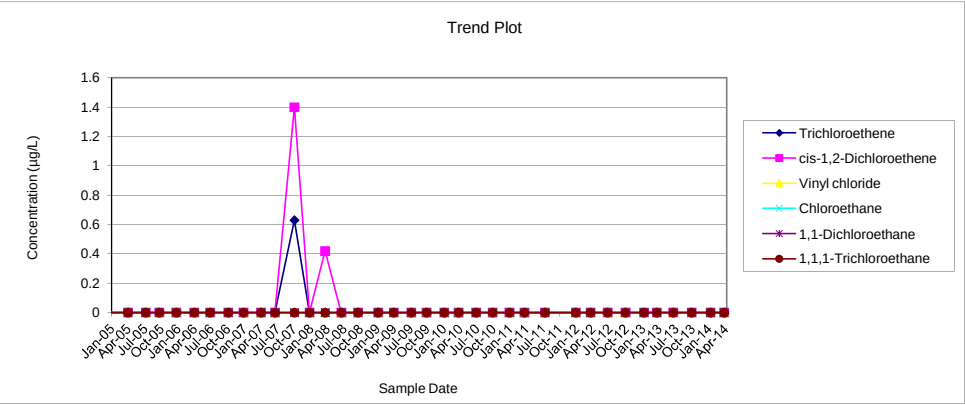


Note: LNAPL was present in MW-4 during the October 2004 and January 2005 groundwater sampling events.

MONITORING WELL MW-6
SUMMARY OF VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Sample Date	Analytical Results (µg/L)					
	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane
11/7/2003	< 10	< 10	< 10	< 10	< 10	< 6
10/12/2004	< 10	< 10	< 10	< 10	< 10	< 10
1/6/2005	< 10	< 10	< 10	< 10	< 10	< 10
4/14/2005	< 10	< 10	< 10	< 10	< 10	< 10
7/21/2005	< 5	< 5	< 5	< 5	< 5	< 5
10/4/2005	< 5	< 5	< 5	< 5	< 5	< 5
1/5/2006	< 5	< 5	< 5	< 5	< 5	< 5
4/14/2006	< 5	< 5	< 5	< 5	< 5	< 5
7/10/2006	< 5	< 5	< 5	< 5	< 5	< 5
10/18/2006	< 5	< 5	< 5	< 5	< 5	< 5
1/10/2007	< 5	< 5	< 5	< 5	< 5	< 5
4/16/2007	< 5	< 5	< 5	< 5	< 5	< 5
7/2/2007	< 5	< 5	< 5	< 5	< 5	< 5
10/17/2007	0.63	1.4	< 5	< 5	< 5	< 5
1/8/2008	<5	<5	<5	<5	<5	<5
4/3/2008	<5	0.42	<5	<5	<5	<5
7/1/2008	<5	<5	<5	<5	<5	<5
10/1/2008	<5	<5	<5	<5	<5	<5
1/20/2009	<5	<5	<5	<5	<5	<5
4/15/2009	<5	<5	<5	<5	<5	<5
7/21/2009	<5	<5	<5	<5	<5	<5
10/13/2009	<5	<5	<5	<5	<5	<5
1/18/2010	<5	<5	<5	<5	<5	<5
4/7/2010	<5	<5	<5	<5	<5	<5
7/13/2010	<5	<5	<5	<5	<5	<5
10/11/2010	<5	<5	<5	<5	<5	<5
1/12/2011	<1	<1	<1	<1	<1	<1
4/4/2011	<1	<1	<1	<1	<1	<1
7/26/2011	<1	<1	<1	<1	<1	<1
1/12/2012	<1	<1	<1	<1	<1	<1
4/2/2012	<1	<1	<1	<1	<1	<1
7/5/2012	<1	<1	<1	<1	<1	<1
10/11/2012	<1	<1	<1	<1	<1	<1
1/21/2013	<1	<1	<1	<1	<1	<1
4/1/2013	<1	<1	<1	<1	<1	<1
7/1/2013	<1	<1	<1	<1	<1	<1
10/10/2013	<1	<1	<1	<1	<1	<1
1/22/2014	<1	<1	<1	<1	<1	<1
4/7/2014	<1	<1	<1	<1	<1	<1

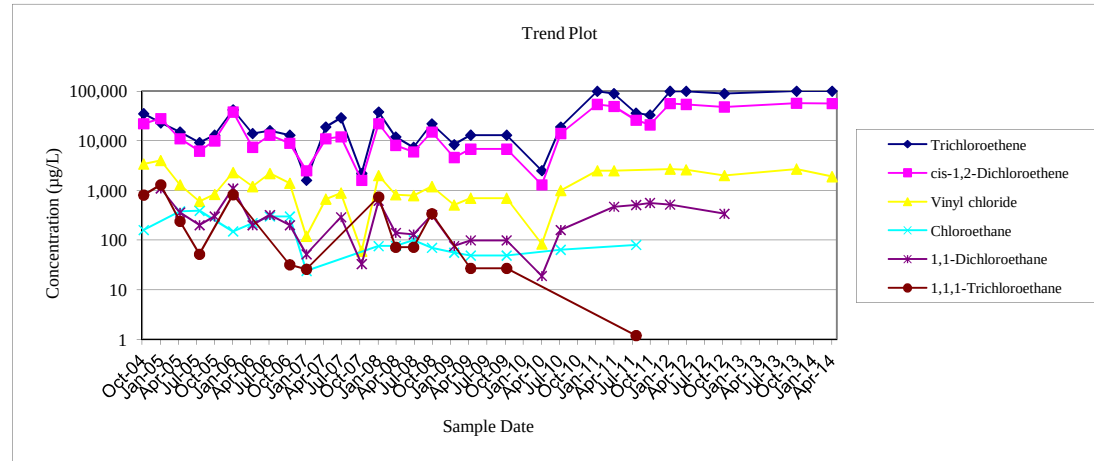
MONITORING WELL MW-6
SUMMARY OF VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York



MONITORING WELL MW-8R
SUMMARY OF VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Sample Date	Analytical Results (µg/L)					
	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane
10/13/2004	35,000	22,000	3,400	160	< 5,000	810
1/7/2005	23,000	28,000	4,000	< 2,000	1,100	1,300
4/14/2005	15,000	11,000	1,300	380	360	240
7/21/2005	9,200	6,200	600	390	200	52
10/5/2005	13,000	10,000	830	< 1,000	300	<1,000
1/6/2006	42,000	38,000	2,300	150	1100	820
4/14/2006	14,000	7,400	1,200	220	200	< 1,000
7/10/2006	16,000	13,000	2,200	300	320	< 1,000
10/18/2006	13,000	8,900	1,400	300	200	32
1/10/2007	1,600	2,500	120	24	52	26
4/17/2007	19,000	11,000	670	< 1,000	< 1,000	< 1,000
7/3/2007	29,000	12,000	890	< 1,000	290	< 1,000
10/15/2007	2,200	1,600	60	< 200	33	< 200
1/8/2008	38,000	22,000	2,000	76	620	740
4/3/2008	12,000	8,100	820	77	140	72
7/2/2008	7,400	6,000	790	100	130	72
10/2/2008	22,000	15,000	1,200	70	320	340
1/22/2009	8,400	4,600	510	56	76	<100
4/15/2009	13,000	6,800	700	49	99	27
10/13/2009	13,000	6,800	700	49	99	27
4/8/2010	2,500	1,300	84	<100	19	<100
7/12/2010	19,000	14,000	1,000	64	160	<100
1/12/2011	99,000	54,000	2,500	<2000	<2000	<2000
4/6/2011	89,000	49,000	2,500	<800	470	<800
7/26/2011	36,000	26,000	<800	80	510	1.2
10/4/2011	33,000	21,000	<400	<400	560	<400
1/13/2012	99,000	56,000	2,700	<800	520	<800
4/3/2012	99,000	54,000	2,600	<2000	<2000	<2000
10/12/2012	89,000	48,000	2,000	<800	340	<800
10/10/2013	100,000	57,000	2,700	<1000	<1000	<1000
4/7/2014	100,000	56,000	1,900	<1000	<1000	<1000

MONITORING WELL MW-8R
SUMMARY OF VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

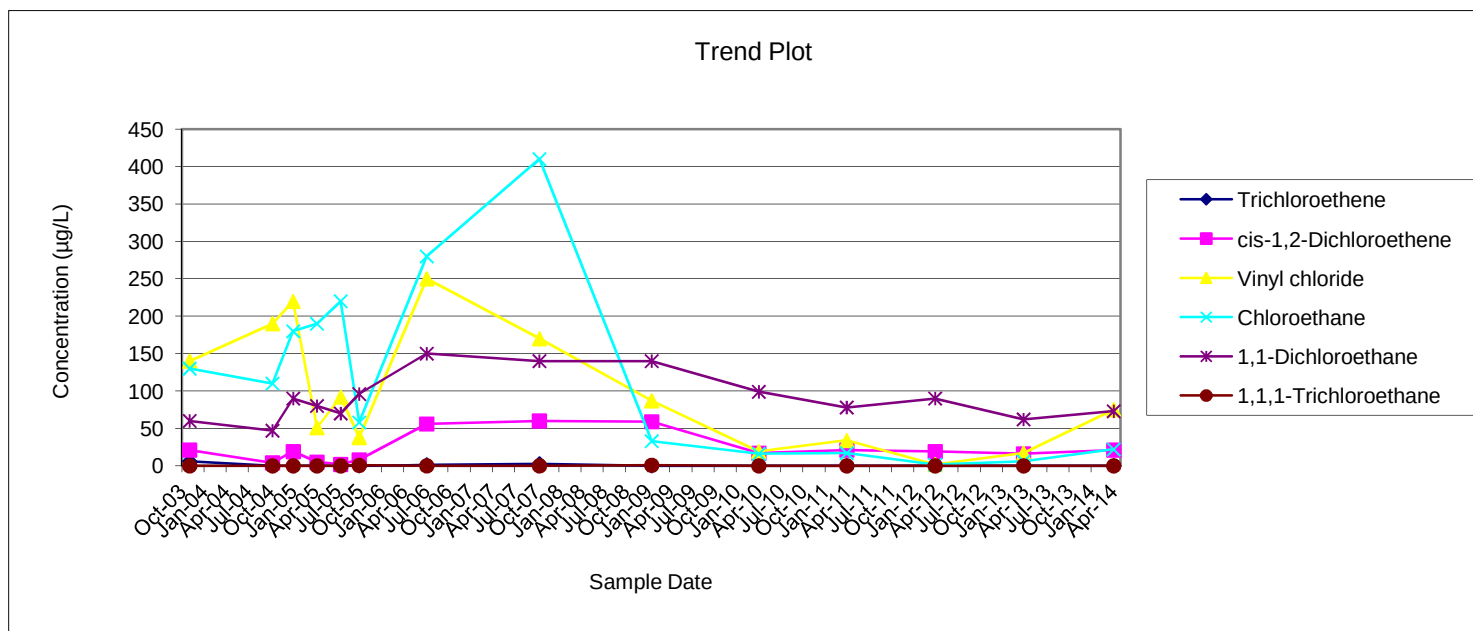


Note: LNAPL was present in MW-4 during the October 2004 and January 2005 groundwater sampling events.

MONITORING WELL MW-9
SUMMARY OF VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Sample Date	Analytical Results (µg/L)					
	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane
11/7/2003	6	21	140	130	60	< 10
10/13/2004	< 10	4	190	110	47	< 10
1/6/2005	< 10	19	220	180	90	< 10
4/14/2005	< 10	5	51	190	80	< 10
7/21/2005	< 5	2	92	220	70	< 5
10/5/2005	< 5	8	38	58	96	0.68
7/10/2006	1.3	56	250	280	150	< 5
10/17/2007	2.6	60	170	410	140	< 25
1/21/2009	<5	59	87	33	140	0.81
4/7/2010	<5	17	19	16	99	< 5
4/4/2011	<1	21	34	17	78	<1
4/2/2012	<1	19	1.8	1.5	90	<1
4/1/2013	<1	16	17	5.9	62	<1
4/7/2014	<1	21	75	22	73	<1

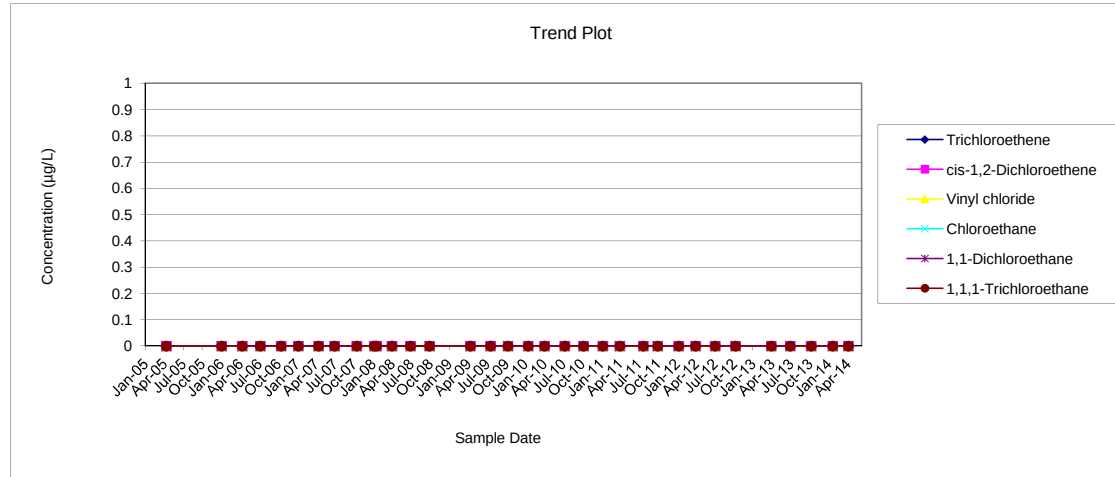
MONITORING WELL MW-9
SUMMARY OF VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York



MONITORING WELL MW-10
SUMMARY OF VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Sample Date	Analytical Results (µg/L)					
	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane
4/14/2005	< 10	< 10	< 10	< 10	< 10	<10
1/5/2006	< 5	< 5	< 5	< 5	< 5	< 5
4/14/2006	< 5	< 5	< 5	< 5	< 5	< 5
7/10/2006	< 5	< 5	< 5	< 5	< 5	< 5
10/18/2006	< 5	< 5	< 5	< 5	< 5	< 5
1/9/2007	< 5	< 5	< 5	< 5	< 5	< 5
4/16/2007	< 5	< 5	< 5	< 5	< 5	< 5
7/2/2007	< 5	< 5	< 5	< 5	< 5	< 5
10/17/2007	< 5	< 5	< 5	< 5	< 5	< 5
1/9/2008	< 5	< 5	< 5	< 5	< 5	< 5
4/3/2008	< 5	< 5	< 5	< 5	< 5	< 5
7/1/2008	< 5	< 5	< 5	< 5	< 5	< 5
10/1/2008	< 5	< 5	< 5	< 5	< 5	< 5
1/20/2008	< 5	< 5	< 5	< 5	< 5	< 5
4/15/2009	< 5	< 5	< 5	< 5	< 5	< 5
7/21/2009	< 5	< 5	< 5	< 5	< 5	< 5
10/13/2009	< 5	< 5	< 5	< 5	< 5	< 5
1/18/2010	< 5	< 5	< 5	< 5	< 5	< 5
4/7/2010	< 5	< 5	< 5	< 5	< 5	< 5
7/13/2010	< 5	< 5	< 5	< 5	< 5	< 5
10/11/2010	< 5	< 5	< 5	< 5	< 5	< 5
1/12/2011	<1	<1	<1	<1	<1	<1
4/4/2011	<1	<1	<1	<1	<1	<1
7/26/2011	<1	<1	<1	<1	<1	<1
10/3/2011	<1	<1	<1	<1	<1	<1
1/12/2012	<1	<1	<1	<1	<1	<1
4/2/2012	<1	<1	<1	<1	<1	<1
7/5/2012	<1	<1	<1	<1	<1	<1
10/11/2012	<1	<1	<1	<1	<1	<1
4/1/2013	<1	<1	<1	<1	<1	<1
7/1/2013	<1	<1	<1	<1	<1	<1
10/10/2013	<1	<1	<1	<1	<1	<1
1/22/2014	<1	<1	<1	<1	<1	<1
4/7/2014	<1	<1	<1	<1	<1	<1

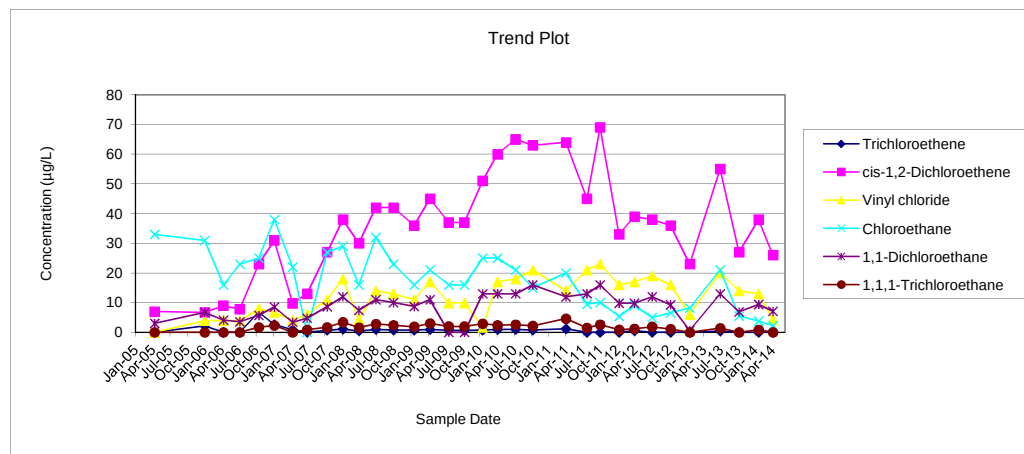
MONITORING WELL MW-10
SUMMARY OF VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York



MONITORING WELL MW-11
SUMMARY OF VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Sample Date	Analytical Results (µg/L)					
	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane
4/14/2005	< 10	7	< 10	33	3	< 10
1/5/2006	2.2	6.7	3.9	31	6.7	<20
4/14/2006	< 20	9	4	16	4.1	< 20
7/10/2006	< 20	7.8	3.9	23	3.6	< 20
10/19/2006	6.8	23	7.9	25	5.7	1.7
1/9/2007	2.6	31	6.7	38	8.5	2.3
4/16/2007	0.89	9.8	4.1	22	3.4	<5
7/2/2007	< 5	13	6.1	< 5	4.8	0.84
10/16/2007	0.71	27	11	27	8.6	1.7
1/8/2008	1.1	38	18	29	12	3.4
4/2/2008	0.49	30	4.3	16	7.4	1.6
7/1/2008	1	42	14	32	11	2.8
10/2/2008	0.81	42	13	23	10	2.4
1/20/2009	0.77	36	11	16	8.7	1.9
4/14/2009	0.95	45	17	21	11	3
7/22/2009	0.69	37	9.9	16	<5	2
10/13/2009	0.69	37	9.9	16	<5	2
1/18/2010	0.77	51	1.7	25	13	2.9
4/7/2010	0.95	60	17	25	13	2.4
7/12/2010	1	65	18	21	13	2.6
10/11/2010	0.8	63	21	15	16	2.2
4/5/2011	1.2	64	14	20	12	4.6
7/25/2011	<1	45	21	9.5	13	1.5
10/3/2011	<1	69	23	10	16	2.6
1/12/2012	<1	33	16	5.4	9.8	0.88
4/2/2012	0.51	39	17	9.1	9.8	1.2
7/5/2012	<1	38	19	5	12	1.9
10/11/2012	<1	36	16	6.6	9.3	1.1
1/21/2013	<1	23	6	8.2	0.64	<1
7/1/2013	0.46	55	20	21	13	1.4
10/9/2013	<1	27	14	5.5	6.9	<1
1/21/2014	<1	38	13	3.8	9.4	0.85
4/7/2014	<1	26	4.3	2.3	7.1	<1

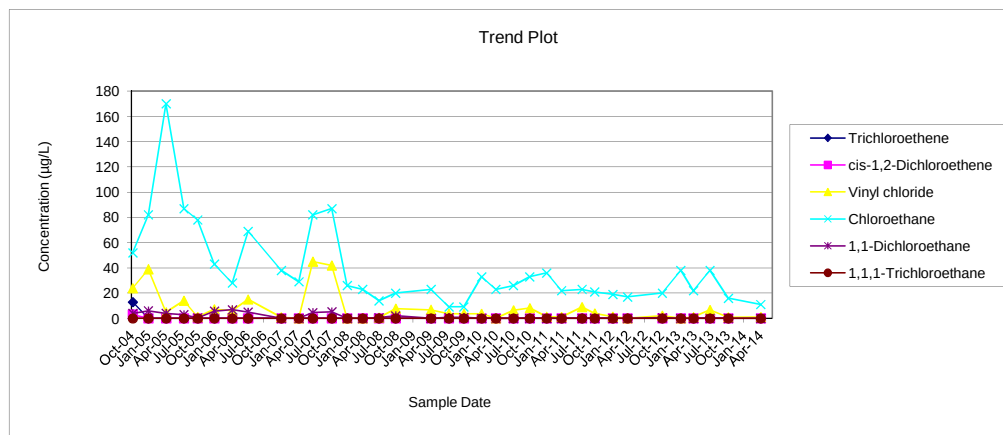
MONITORING WELL MW-11
SUMMARY OF VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York



MONITORING WELL MW-12
SUMMARY OF VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Sample Date	Analytical Results (µg/L)					
	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane
10/12/2004	13	3	24	52	4	< 10
1/6/2005	< 10	< 10	39	82	6	< 10
4/14/2005	< 10	< 10	5	170	4	< 10
7/21/2005	< 5	< 5	14	87	3	<
10/5/2005	< 5	< 5	1.2	78	0.43	< 5
1/5/2006	< 25	< 25	7.2	43	5.8	< 25
4/14/2006	< 25	< 25	6.3	28	6.9	< 25
7/10/2006	< 25	< 25	15	69	5	< 25
1/9/2007	< 5	< 5	0.83	38	< 5	< 5
4/16/2007	< 20	< 20	< 20	29	< 20	< 20
7/2/2007	< 5	< 5	45	82	4.6	< 5
10/15/2007	< 5	< 5	42	87	5.2	< 5
1/8/2008	< 5	< 5	< 5	26	< 5	< 5
4/2/2008	< 5	< 5	< 5	23	< 5	< 5
7/1/2008	< 5	< 5	0.64	14	0.55	< 5
10/1/2008	< 5	< 5	7.8	20	2.1	< 5
4/14/2009	< 5	< 5	6.8	23	< 5	< 5
7/22/2009	< 5	< 5	3.6	9.2	0.79	< 5
10/12/2009	< 5	< 5	3.6	9.2	0.79	< 5
1/18/2010	< 5	< 5	3.6	33	< 5	< 5
4/7/2010	< 5	< 5	< 5	23	< 5	< 5
7/13/2010	< 5	< 5	6.4	26	< 5	< 5
10/11/2010	< 5	< 5	8.1	33	< 5	< 5
1/12/2011	< 1	< 1	1.3	36	< 1	< 1
4/4/2011	< 1	< 1	1.1	22	< 1	< 1
7/26/2011	< 1	< 1	8.9	23	< 1	< 1
10/4/2011	< 1	< 1	3.9	21	< 1	< 1
1/12/2012	< 1	< 1	1.4	19	< 1	< 1
4/2/2012	< 1	< 1	< 1	17	< 1	< 1
10/11/2012	< 1	< 1	2.1	20	0.49	< 1
1/21/2013	< 1	< 1	< 1	38	< 1	< 1
4/1/2013	< 1	< 1	1.1	22	< 1	< 1
7/1/2013	< 1	< 1	6.6	38	< 1	< 1
10/10/2013	< 1	< 1	0.95	16	< 1	< 1
4/7/2014	< 1	< 1	1.2	11	< 1	< 1

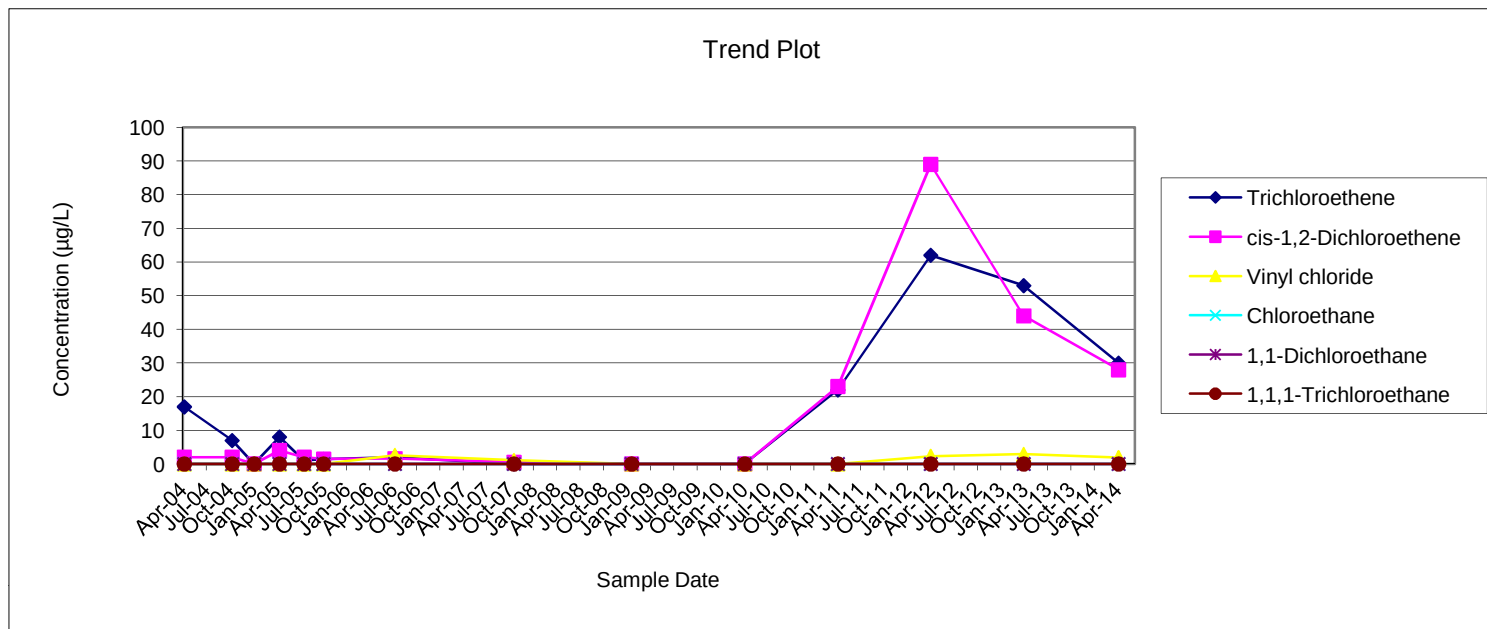
MONITORING WELL MW-12
SUMMARY OF VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York



PIEZOMETER MW-13D
SUMMARY OF VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Sample Date	Analytical Results (µg/L)					
	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane
4/8/2004	17	2	< 10	< 10	< 10	< 10
10/12/2004	7	2	< 10	< 10	< 10	< 10
1/6/2005	< 10	< 10	< 10	< 10	< 10	< 10
4/15/2005	8	4	< 10	< 10	< 10	< 10
7/20/2005	1	2	< 5	< 5	< 5	< 5
10/4/2005	1.4	1.5	< 5	< 5	< 5	< 5
7/10/2006	2	1.6	2.6	< 5	< 5	< 5
10/18/2007	<5	0.55	1.1	< 5	< 5	< 5
1/20/2009	<5	<5	<5	<5	<5	<5
4/7/2010	<5	<5	<5	<5	<5	<5
4/6/2011	22	23	<1	<1	<1	<1
4/3/2012	62	89	2.3	<1	<1	<1
4/1/2013	53	44	2.9	<1	<1	<1
4/7/2014	30	28	1.9	<1	<1	<1

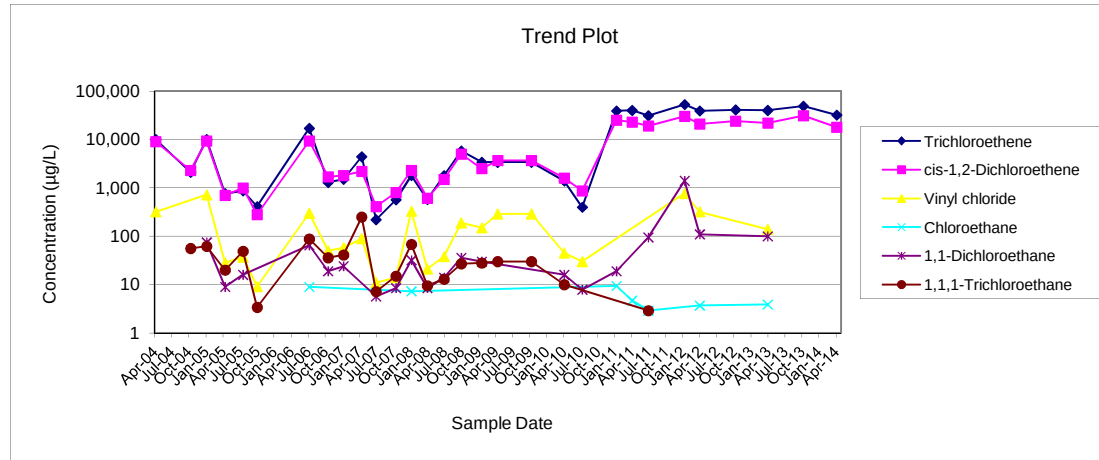
PIEZOMETER MW-13D
SUMMARY OF VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York



PIEZOMETER MW-13S
SUMMARY OF VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Sample Date	Analytical Results (µg/L)					
	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane
4/8/2004	10,000	9,000	320	< 100	< 100	< 100
10/12/2004	2,100	2,300	< 200	< 200	< 200	56
1/6/2005	10,000	9,400	720	< 200	75	62
4/15/2005	760	700	28	< 50	9	20
7/20/2005	870	990	37	< 40	16	49
10/4/2005	410	280	9.1	< 40	< 40	3.4
7/10/2006	17,000	9,400	300	9	65	88
10/19/2006	1,300	1,700	50	<100	19	36
1/10/2007	1,500	1,800	58	<100	24	41
4/17/2007	4,400	2,200	90	< 250	< 250	250
7/3/2007	220	410	11	< 25	5.7	7.2
10/18/2007	570	800	14	< 25	8.5	15
1/9/2008	1800	2300	330	7.3	32	68
4/3/2008	580	610	21	<50	8.5	9.5
7/2/2008	1,800	1,500	38	<120	14	13
10/2/2008	5,800	5,000	190	<120	36	27
1/20/2009	3,400	2,500	150	<10	30	28
4/15/2009	3,400	3,700	290	<40	<40	30
10/13/2009	3,400	3,700	290	<40	<40	30
4/7/2010	1,400	1,600	45	<50	16	10
7/13/2010	400	870	30	<50	7.9	<50
1/12/2011	39,000	25,000	<500	9.4	19	<1
4/6/2011	40,000	23,000	<800	4.7	<800	<800
7/2/2011	31,000	19,000	<800	2.9	95	2.9
1/13/2012	53,000	30,000	770	<800	1400	<800
4/3/2012	39,000	21,000	320	3.7	110	<1
10/12/2012	41,000	24,000	<800	<800	<800	<800
4/2/2013	40,000	22,000	140	3.9	100	<1
10/10/2013	49,000	31,000	<1	<1	<1	<1
4/7/2014	32,000	18,000	<500	<500	<500	<500

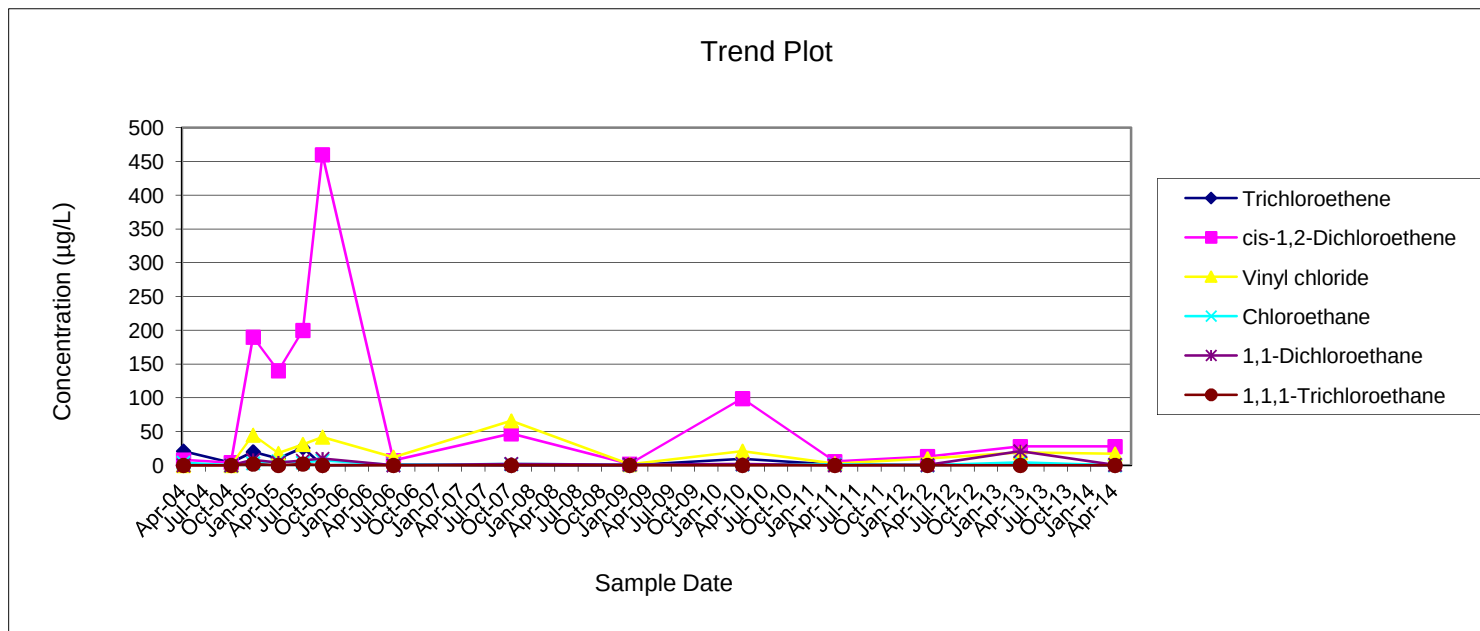
PIEZOMETER MW-13S
SUMMARY OF VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York



PIEZOMETER MW-14D
SUMMARY OF VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Sample Date	Analytical Results (µg/L)					
	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1,1-Tetrachloroethane
4/8/2004	21	8	< 10	4	< 10	< 10
10/12/2004	4	4	< 10	< 10	< 10	< 10
1/6/2005	20	190	45	3	8	2
4/15/2005	10	140	18	6	4	< 10
7/20/2005	26	200	31	4	7	2
10/5/2005	< 10	460	42	7.2	9.9	<10
7/10/2006	0.96	7.2	12	0.82	< 5	< 5
10/15/2007	< 5	47	66	1.8	2.2	< 5
1/21/2009	<5	2	1.4	0.91	1.3	<5
4/8/2010	9.4	99	21	1.5	2	<5
4/5/2011	0.97	5.6	2.6	1.5	<1	<1
4/2/2012	0.64	13	9.9	<1	0.44	<1
4/1/2013	0.99	28	19	4.6	21	<1
4/7/2014	<1	28	17	<1	0.82	<1

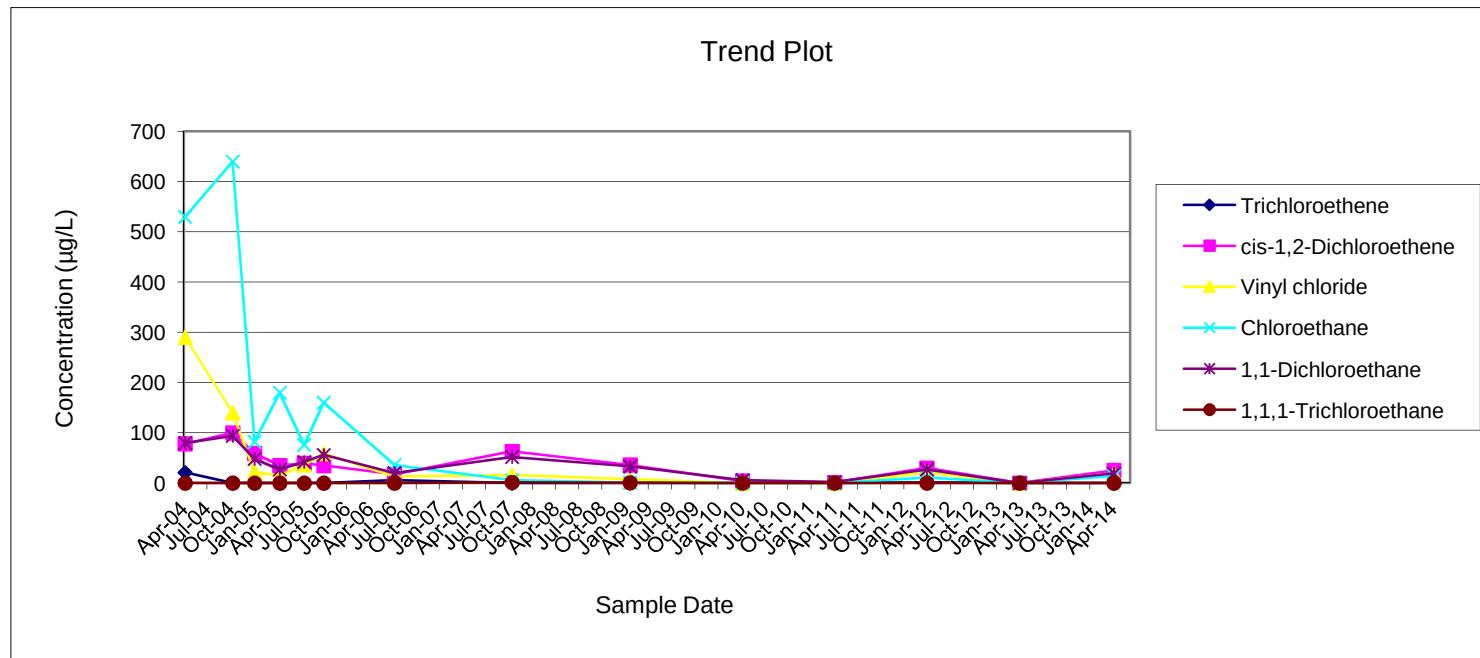
PIEZOMETER MW-14D
SUMMARY OF VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York



PIEZOMETER MW-14S
SUMMARY OF VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Sample Date	Analytical Results (µg/L)					
	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1,1-Tetrachloroethane
4/8/2004	21	78	290	530	80	< 20
10/12/2004	< 10	100	140	640	94	< 10
1/6/2005	< 10	59	22	82	48	< 10
4/15/2005	< 10	35	15	180	27	< 10
7/20/2005	< 5	39	36	76	42	< 5
10/5/2005	< 5	35	59	160	56	<5
7/10/2006	5.7	17	13	36	20	< 25
10/15/2007	< 5	63	16	5.7	52	1.3
1/21/2009	0.38	36	7.9	0.87	33	0.63
4/8/2010	< 5	4	< 5	0.62	5.9	<5
4/5/2011	< 1	1.1	<1	<1	1.9	<1
4/2/2012	1.3	30	21	11	27	<1
4/1/2013	<1	<1	<1	<1	<1	<1
4/7/2014	<1	25	19	14	19	<1

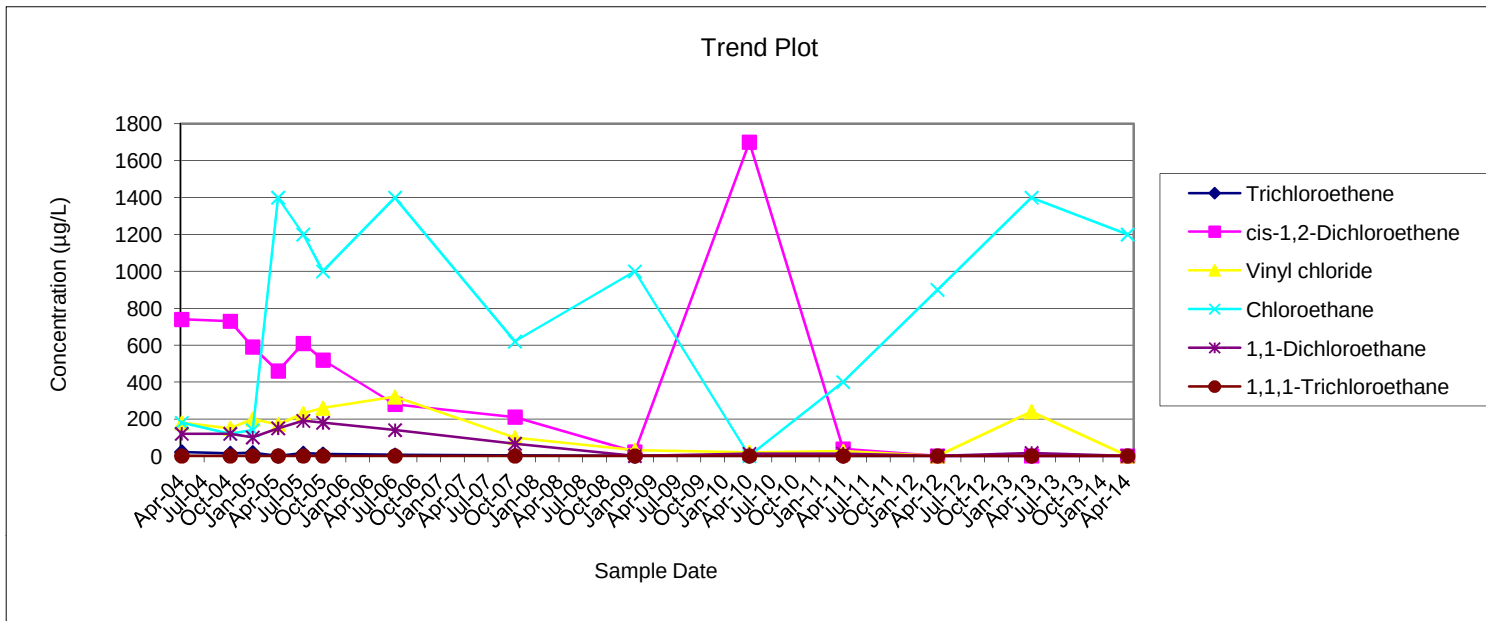
**PIEZOMETER MW-14S
SUMMARY OF VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York**



PIEZOMETER MW-15D
SUMMARY OF VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Sample Date	Analytical Results (µg/L)					
	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1,1-Tetrachloroethane
4/8/2004	21	740	180	180	120	< 10
10/12/2004	14	730	150	120	120	< 50
1/7/2005	18	590	200	140	100	< 50
4/15/2005	< 50	460	170	1,400	150	< 50
7/21/2005	15	610	230	1,200	190	< 25
10/5/2005	10	520	260	1,000	180	<50
7/10/2006	4.9	280	320	1,400	140	< 5
10/16/2007	3.6	210	99	620	66	< 5
1/21/2009	<25	22	32	1000	<25	<25
4/8/2010	<5	1700	19	<5	12	<5
4/5/2011	<8	38	26	400	13	<8
4/3/2012	<10	<10	<10	900	<10	<10
4/1/2013	<8	<8	240	1400	16	<8
4/7/2014	<20	<20	<20	1200	<20	<20

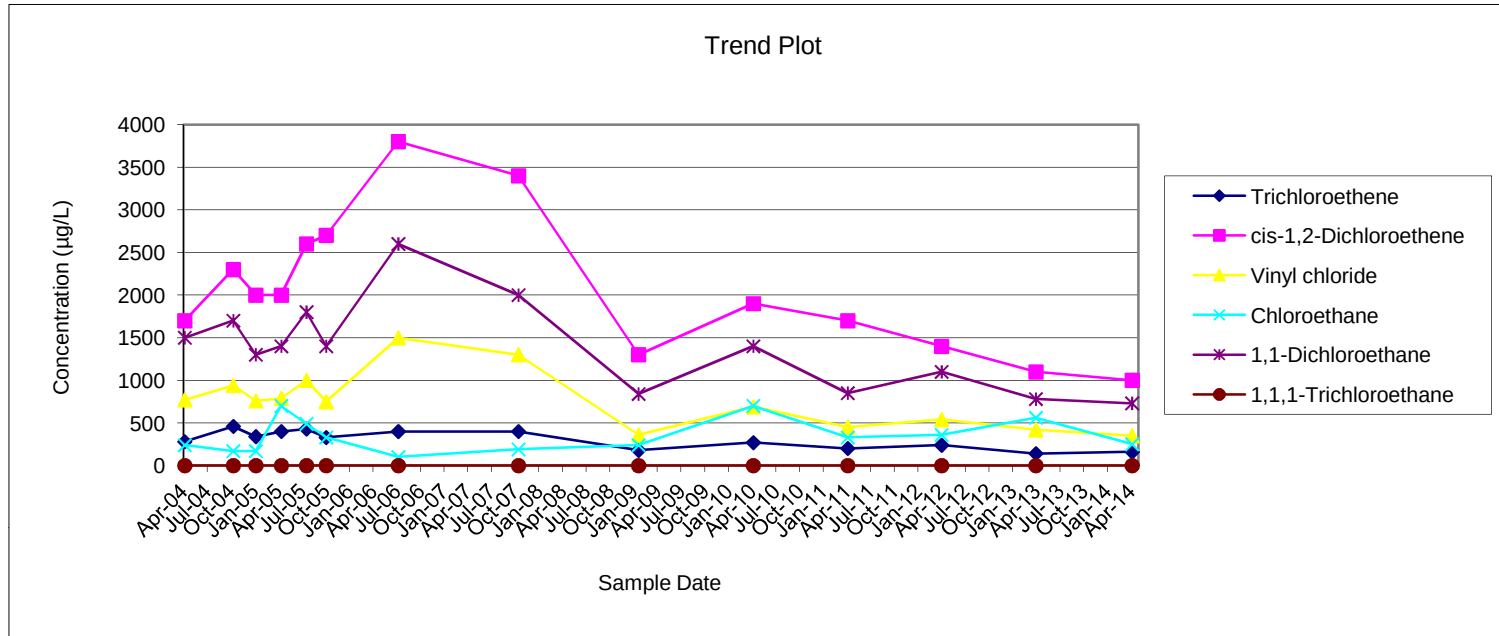
PIEZOMETER MW-15D
SUMMARY OF VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York



PIEZOMETER MW-15S
SUMMARY OF VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Sample Date	Analytical Results (µg/L)					
	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1,1-Tetrachloroethane
4/8/2004	280	1,700	770	240	1,500	< 250
10/12/2004	460	2,300	940	170	1,700	< 250
1/7/2005	340	2,000	760	170	1,300	< 250
4/15/2005	400	2,000	790	700	1,400	< 200
7/21/2005	430	2,600	1,000	490	1,800	< 120
10/5/2005	330	2,700	750	330	1,400	<100
7/10/2006	400	3,800	1,500	100	2,600	< 25
10/16/2007	400	3400	1300	190	2000	< 200
1/21/2009	180	1300	360	240	840	<5
4/8/2010	270	1900	690	700	1400	<10
4/7/2011	200	1700	450	330	850	<1
4/3/2012	240	1400	540	360	1100	<1
4/1/2013	140	1100	420	560	780	<20
4/7/2014	160	1000	350	250	730	<20

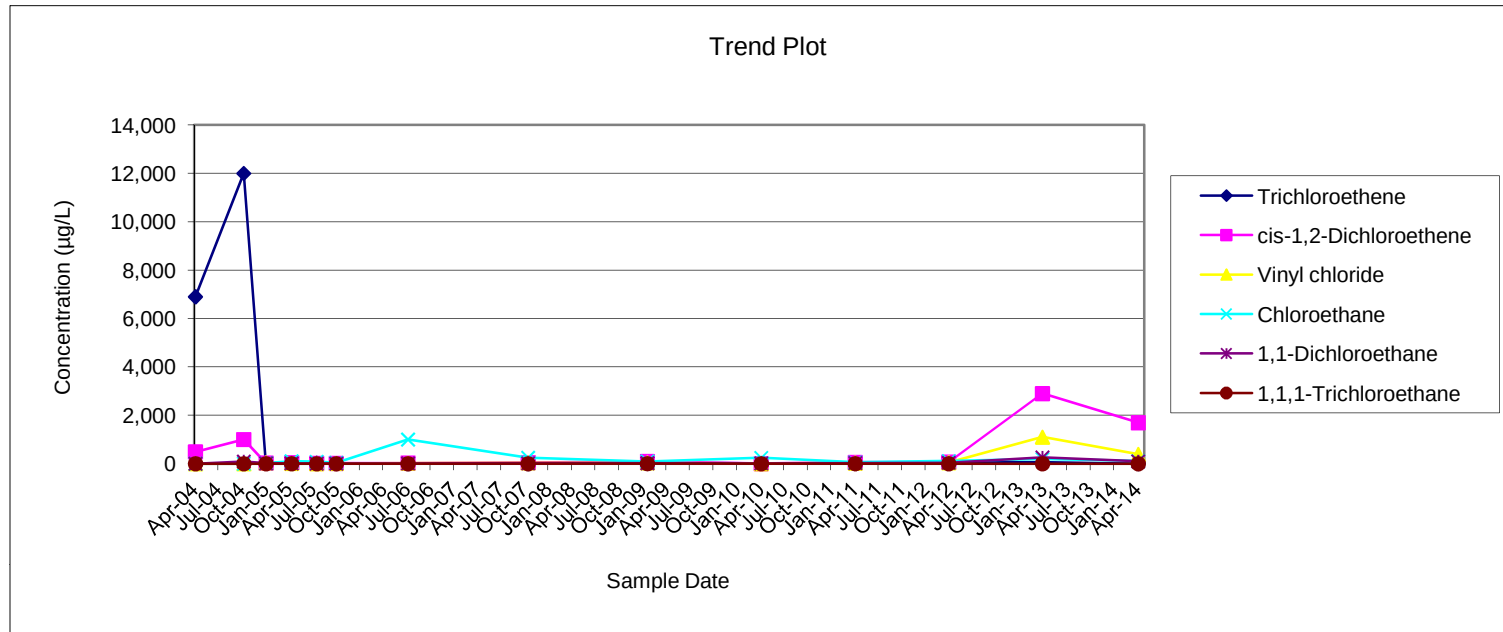
PIEZOMETER MW-15S
SUMMARY OF VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York



PIEZOMETER MW-16D
SUMMARY OF VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York

Sample Date	Analytical Results (µg/L)					
	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane
4/8/2004	6,900	490	< 500	< 500	< 500	< 500
10/12/2004	12,000	1,000	< 500	< 500	91	< 500
1/6/2005	9	27	39	22	15	< 10
4/15/2005	32	36	17	100	10	< 10
7/21/2005	25	12	4	84	2	< 10
10/5/2005	1.3	16	10	41	5	<5
7/10/2006	6.1	27	21	1,000	9.7	< 5
10/18/2007	6	48	39	250	16	< 20
1/22/2009	52	92	39	90	21	1.9
4/8/2010	12	6.9	3.6	240	8.7	< 10
4/7/2011	22	59	33	59	27	1.2
4/3/2012	42	66	46	110	35	<1
4/1/2013	57	2900	1100	190	260	<1
4/7/2014	<25	1700	390	110	99	<25

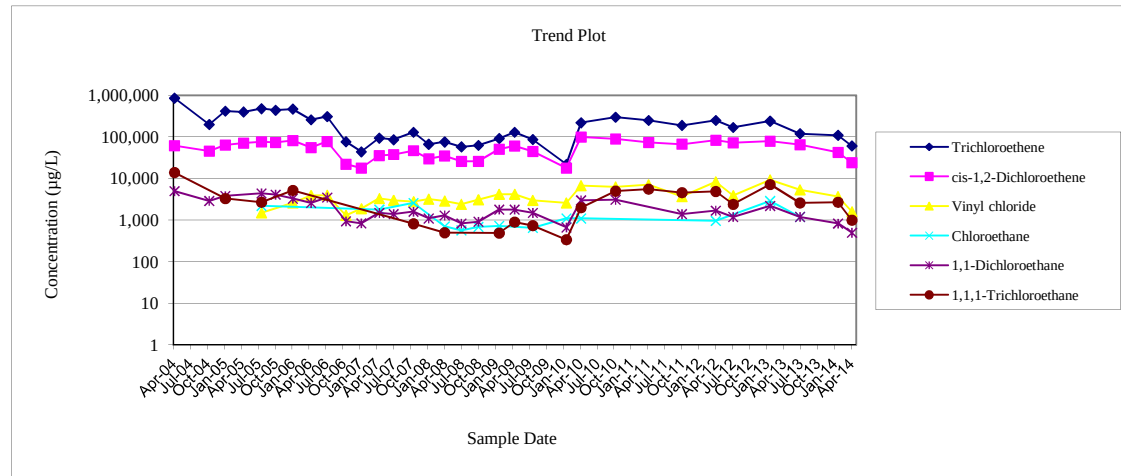
PIEZOMETER MW-16D
SUMMARY OF VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York



**PIEZOMETER MW-16S
SUMMARY OF VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York**

Sample Date	Analytical Results (µg/L)					
	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride	Chloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane
4/8/2004	860,000	62,000	< 20,000	< 20,000	5,000	14,000
10/12/2004	200,000	46,000	< 10,000	< 10,000	2,900	< 10,000
1/7/2005	420,000	64,000	< 10,000	< 10,000	3,800	3,300
4/15/2005	400,000	71,000	< 25,000	< 25,000	< 25,000	< 25,000
7/21/2005	480,000	76,000	1,500	2,200	4,400	2,700
10/5/2005	440,000	74,000	< 25,000	< 25,000	4,100	< 25,000
1/6/2006	470,000	82,000	2,600	< 20,000	3,300	5,200
4/14/2006	260,000	56,000	3,900	< 20,000	2,600	< 20,000
7/10/2006	310,000	78,000	4,000	< 20,000	3,500	< 20,000
10/19/2006	77,000	22,000	1,300	< 5,000	940	< 5,000
1/10/2007	44,000	18,000	1,900	< 2,500	840	< 2,500
4/17/2007	94,000	36,000	3,300	1,800	1,500	< 5,000
7/3/2007	86,000	38,000	3,000	< 5,000	1,400	< 5,000
10/18/2007	130000	47000	2800	2600	1600	820
1/8/2008	67000	30000	3200	< 5000	1100	< 5000
4/3/2008	76,000	35,000	2,900	710	1,300	500
7/2/2008	58,000	26,000	2,400	570	830	<5000
10/2/2008	63,000	26,000	3,100	690	920	<5000
1/22/2009	92,000	51,000	4,200	730	1,800	490
4/15/2009	130,000	61,000	4,200	<2000	1,800	900
7/22/2009	87,000	45,000	3,000	650	1,500	740
1/19/2010	22,000	18,000	2,600	1,100	670	340
4/8/2010	220,000	99,000	6,800	1,100	3,000	2,000
10/11/2010	300,000	90,000	6,300	<20,000	3,100	5,000
4/7/2011	250,000	74,000	7,100	<4,000	<4,000	5,600
10/4/2011	190,000	67,000	3,700	<800	1,400	4,600
4/3/2012	250,000	84,000	8,400	960	1,700	4,900
7/6/2012	170,000	72,000	3,900	<2000	1,200	2,400
1/21/2013	240,000	79,000	9,300	2,900	2,200	7,200
7/1/2013	120,000	65,000	5,400	1,200	1,200	2,600
1/22/2014	110,000	43,000	3,700	<2,000	830	2,700
4/7/2014	61,000	24,000	1,600	<1000	500	1,000

**PIEZOMETER MW-16S
SUMMARY OF VOCs IN GROUNDWATER
Former Scott Aviation Site
Lancaster, New York**



Appendix F

Completed Institutional and Engineering Controls Certification Form

New York State Department of Environmental Conservation

Division of Environmental Remediation, 11th Floor

625 Broadway, Albany, New York 12233

Phone: (518) 402-9553 Fax: (518) 402-9577

Website: www.dec.ny.gov



Joseph J. Martens
Commissioner

rec'd 7/11/14

6/30/2014

Joseph Janeczek, P.E.
Director, Environmental Affairs
Tyco International
9 Roszel Road
Princeton, NJ 08540

Re: Reminder Notice: Site Management Periodic Review Report and IC/EC Certification Submittal

Site Name: Scott Aviation

Site No.: 915149

Site Address: 225 Erie Street
Lancaster, NY 14086

Dear Mr. Janeczek:

This letter serves as a reminder that sites in active Site Management (SM) require the submittal of a periodic progress report. This report, referred to as the Periodic Review Report (PRR), must document the implementation of, and compliance with, site specific SM requirements. Section 6.3(b) of DER-10 *Technical Guidance for Site Investigation and Remediation* (available online at <http://www.dec.ny.gov/regulations/67386.html>) provides guidance regarding the information that must be included in the PRR. Further, if the site is comprised of multiple parcels, then you as the Certifying Party must arrange to submit one PRR for all parcels that comprise the site. The PRR must be received by the Department no later than **August 14, 2014**. Guidance on the content of a PRR is enclosed.

Site Management is defined in regulation (6 NYCRR 375-1.2(at)) and in Chapter 6 of DER-10. Depending on when the remedial program for your site was completed, SM may be governed by multiple documents (e.g., Operation, Maintenance, and Monitoring Plan; Soil Management Plan) or one comprehensive Site Management Plan.

A Site Management Plan (SMP) may contain one or all of the following elements, as applicable to the site: a plan to maintain institutional controls and/or engineering controls ("IC/EC Plan"); a plan for monitoring the performance and effectiveness of the selected remedy ("Monitoring Plan"); and/or a plan for the operation and maintenance of the selected remedy ("O&M Plan"). Additionally, the technical requirements for SM are stated in the decision document (e.g., Record of Decision) and, in some cases, the legal agreement directing the remediation of the site (e.g., order on consent, voluntary agreement, etc.).

When you submit the PRR (by the due date above), include the enclosed forms documenting that all SM requirements are being met. The Institutional Controls (ICs) portion of the form (Box 6) must be signed by you or your designated representative. The Engineering Controls (ECs) portion of the form (Box 7) must be signed by a Professional Engineer (PE). If you cannot certify that all SM requirements are being met, you must submit a Corrective Measures Work Plan that identifies the actions to be taken to restore compliance. The work plan must include a schedule to be approved by the Department. The Periodic Review process will not be considered complete until all necessary corrective measures are completed and all required controls are certified. Instructions for completing the certifications are enclosed.

All site-related documents and data, including the PRR, are to be submitted in electronic format to the Department of Environmental Conservation. The Department will not approve the PRR unless all documents and data generated in support of that report have been submitted in accordance with the electronic submissions protocol. In addition, the certification forms are required to be submitted in both paper and electronic formats.

Information on the format of the data submissions can be found at:
<http://www.dec.ny.gov/regulations/2586.html>

The signed certification forms should be sent to Glenn May, Project Manager, at the following address:

New York State Department of Environmental Conservation
270 Michigan Ave
Buffalo, NY 14203-2915

Phone number: 716-851-7220. E-mail: gmmay@gw.dec.state.ny.us

The contact information above is also provided so that you may notify the project manager about upcoming inspections, or for any other questions or concerns that may arise in regard to the site.

Enclosures

PRR General Guidance
Certification Form Instructions
Certification Forms

cc: w/ enclosures

Avox Systems

ec: w/ enclosures

Glenn May, Project Manager
Greg Sutton, Hazardous Waste Remediation Engineer, Region 9

Enclosure 1

Certification Instructions

I. Verification of Site Details (Box 1 and Box 2):

Answer the three questions in the Verification of Site Details Section. The Owner and/or Qualified Environmental Professional (QEP) may include handwritten changes and/or other supporting documentation, as necessary.

II. Certification of Institutional Controls/ Engineering Controls (IC/ECs)(Boxes 3, 4, and 5)

1.1.1. Review the listed IC/ECs, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Owner / Remedial Party should petition the Department separately to request approval to remove the control.

2. In Box 5, complete certifications for all Plan components, as applicable, by checking the corresponding checkbox.

3. If you cannot certify "YES" for each Control listed in Box 3 & Box 4, sign and date the form in Box 5. Attach supporting documentation that explains why the **Certification** cannot be rendered, as well as a plan of proposed corrective measures, and an associated schedule for completing the corrective measures. Note that this **Certification** form must be submitted even if an IC or EC cannot be certified; however, the certification process will not be considered complete until corrective action is completed.

If the Department concurs with the explanation, the proposed corrective measures, and the proposed schedule, a letter authorizing the implementation of those corrective measures will be issued by the Department's Project Manager. Once the corrective measures are complete, a new Periodic Review Report (with IC/EC Certification) must be submitted within 45 days to the Department. If the Department has any questions or concerns regarding the PRR and/or completion of the IC/EC Certification, the Project Manager will contact you.

III. IC/EC Certification by Signature (Box 6 and Box 7):

If you certified "YES" for each Control, please complete and sign the IC/EC Certifications page as follows:

- For the Institutional Controls on the use of the property, the certification statement in Box 6 shall be completed and may be made by the property owner or designated representative.
- For the Engineering Controls, the certification statement in Box 7 must be completed by a Professional Engineer or Qualified Environmental Professional, as noted on the form.



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



Site Details		Box 1	
Site No.	915149		
Site Name Scott Aviation			
Site Address: 225 Erie Street		Zip Code: 14086	
City/Town: Lancaster			
County: Erie			
Site Acreage: 1.0			
Reporting Period: ~~July 31, 2013 to July 15, 2014~~ APRIL 3, 2013 to APRIL 7, 2014			
		YES	NO
1. Is the information above correct?		☒	☐
If NO, include handwritten above or on a separate sheet.			
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?		☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?		☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?		☐	☒
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.			
5. Is the site currently undergoing development?		☐	☒

Box 2	
	YES NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	☒ ☐
7. Are all ICs/ECs in place and functioning as designed?	☒ ☐
IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.	
A Corrective Measures Work Plan must be submitted along with this form to address these issues.	
_____ Signature of Owner, Remedial Party or Designated Representative	_____ Date

SITE NO. 915149

Box 3

Description of Institutional Controls

Parcel

104.16-4-8.1

Owner

AVOX Systems

Institutional Control

Monitoring Plan
O&M Plan

A long-term monitoring program is in place and includes: (1) quarterly sampling of groundwater to monitor the effectiveness of the treatment systems, and (2) ~~monthly~~ ^{quarterly} sampling of the treatment systems to ensure compliance with discharge limits.

Description of Engineering Controls

Parcel

104.16-4-8.1

Engineering Control

Groundwater Treatment System
Vapor Mitigation
Cover System
Groundwater Containment

In accordance with the ROD, a 200-foot long groundwater collection trench was constructed approximately 90 feet west of Plant 2 during February 1996. The purpose of the trench is to maintain hydraulic control of VOC-impacted groundwater. The groundwater treatment system consists of a low-profile shallow tray air stripper (AS) unit. Treated water from the AS unit is discharged under a City of Buffalo Pollutant Discharge Elimination System permit. The groundwater treatment system began operation on March 1 1996.

The groundwater collection trench system was subsequently combined with a dual phase extraction system installed at the Site between February and May 2004. The combined remediation system began operation on May 14, 2004.

A long-term operation and maintenance program is in place and includes: (1) long-term operation and maintenance of the groundwater collection and treatment system, and (2) long-term operation and maintenance of the dual phase extraction system.

*Under EC/BPOES permit
No. 14-04-E4045*

DC2 7/15/14

Box 4

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

☒ ☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

(a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

☒ ☐

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. 915149

Box 6

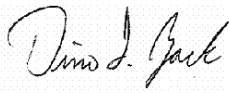
SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Dino L. Zack at 100 Corporate Parkway, Amherst, NY 14226,
print name print business address

am certifying as AECOM Technical Services, Inc. (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.



Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

7/15/14

Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I SCOTT A. UNDERHILL at 40 BRITISH AMERICAN BLVD, LATHAM NY
print name print business address

am certifying as a Professional Engineer for the REMEDIAL PARTY
(Owner or Remedial Party)



Scott A. Underhill

Signature of Professional Engineer for the Owner or Remedial Party, Rendering Certification

Stamp
(Required for PE)

7/29/14

Date

Enclosure 3
Periodic Review Report (PRR) General Guidance

- I. Executive Summary: (1/2-page or less)
 - A. Provide a brief summary of site, nature and extent of contamination, and remedial history.
 - B. Effectiveness of the Remedial Program - Provide overall conclusions regarding:
 1. progress made during the reporting period toward meeting the remedial objectives for the site
 2. the ultimate ability of the remedial program to achieve the remedial objectives for the site.
 - C. Compliance
 1. Identify any areas of non-compliance regarding the major elements of the Site Management Plan (SMP, i.e., the Institutional/Engineering Control (IC/EC) Plan, the Monitoring Plan, and the Operation & Maintenance (O&M) Plan).
 2. Propose steps to be taken and a schedule to correct any areas of non-compliance.
 - D. Recommendations
 1. recommend whether any changes to the SMP are needed
 2. recommend any changes to the frequency for submittal of PRRs (increase, decrease)
 3. recommend whether the requirements for discontinuing site management have been met.
- II. Site Overview (one page or less)
 - A. Describe the site location, boundaries (figure), significant features, surrounding area, and the nature and extent of contamination prior to site remediation.
 - B. Describe the chronology of the main features of the remedial program for the site, the components of the selected remedy, cleanup goals, site closure criteria, and any significant changes to the selected remedy that have been made since remedy selection.
- III. Evaluate Remedy Performance, Effectiveness, and Protectiveness
Using tables, graphs, charts and bulleted text to the extent practicable, describe the effectiveness of the remedy in achieving the remedial goals for the site. Base findings, recommendations, and conclusions on objective data. Evaluations should be presented simply and concisely.
- IV. IC/EC Plan Compliance Report (if applicable)
 - A. IC/EC Requirements and Compliance
 1. Describe each control, its objective, and how performance of the control is evaluated.
 2. Summarize the status of each goal (whether it is fully in place and its effectiveness).
 3. Corrective Measures: describe steps proposed to address any deficiencies in ICECs.
 4. Conclusions and recommendations for changes.
 - B. IC/EC Certification
 1. The certification must be complete (even if there are IC/EC deficiencies), and certified by the appropriate party as set forth in a Department-approved certification form(s).
- V. Monitoring Plan Compliance Report (if applicable)
 - A. Components of the Monitoring Plan (tabular presentations preferred) - Describe the requirements of the monitoring plan by media (i.e., soil, groundwater, sediment, etc.) and by any remedial technologies being used at the site.
 - B. Summary of Monitoring Completed During Reporting Period - Describe the monitoring tasks actually completed during this PRR reporting period. Tables and/or figures should be used to show all data.
 - C. Comparisons with Remedial Objectives - Compare the results of all monitoring with the remedial objectives for the site. Include trend analyses where possible.
 - D. Monitoring Deficiencies - Describe any ways in which monitoring did not fully comply with the monitoring plan.
 - E. Conclusions and Recommendations for Changes - Provide overall conclusions regarding the monitoring completed and the resulting evaluations regarding remedial effectiveness.
- VI. Operation & Maintenance (O&M) Plan Compliance Report (if applicable)
 - A. Components of O&M Plan - Describe the requirements of the O&M plan including required activities, frequencies, recordkeeping, etc.
 - B. Summary of O&M Completed During Reporting Period - Describe the O&M tasks actually completed during this PRR reporting period.
 - C. Evaluation of Remedial Systems - Based upon the results of the O&M activities completed, evaluate the ability of each component of the remedy subject to O&M requirements to perform as

designed/expected.

- D. O&M Deficiencies - Identify any deficiencies in complying with the O&M plan during this PRR reporting period.
- E. Conclusions and Recommendations for Improvements - Provide an overall conclusion regarding O&M for the site and identify any suggested improvements requiring changes in the O&M Plan.

VII. Overall PRR Conclusions and Recommendations

- A. Compliance with SMP - For each component of the SMP (i.e., IC/EC, monitoring, O&M), summarize;
 - 1. whether all requirements of each plan were met during the reporting period
 - 2. any requirements not met
 - 3. proposed plans and a schedule for coming into full compliance.
- B. Performance and Effectiveness of the Remedy - Based upon your evaluation of the components of the SMP, form conclusions about the performance of each component and the ability of the remedy to achieve the remedial objectives for the site.
- C. Future PRR Submittals
 - 1. Recommend, with supporting justification, whether the frequency of the submittal of PRRs should be changed (either increased or decreased).
 - 2. If the requirements for site closure have been achieved, contact the Departments Project Manager for the site to determine what, if any, additional documentation is needed to support a decision to discontinue site management.

VIII. Additional Guidance

Additional guidance regarding the preparation and submittal of an acceptable PRR can be obtained from the Departments Project Manager for the site.