2016 Annual Site Management Report

APPENDIX D: Groundwater Monitoring Report

Former Lockheed Martin
French Road Facility
Utica, New York

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ABBREVIATIONS & ACRONYMS

1,1-DCA	1,1-dichloroethane
1,2-DCA	1,2-dichloroethane
ASP	analytical services protocol
BBL	Blasland, Bouck & Lee, Inc.
cis-1,2-DCE	cis-1,2-dichloroethene
CMIP	Corrective Measures Implementation Plan
CMS	Corrective Measures Study
COC	contaminant of concern
CVOC	chlorinated volatile organic compound
DER	[NYSDEC] Division of Environmental Remediation
DO	dissolved oxygen
DUSR	data usability summary report
FNPD	Former Northern Perimeter Ditch
FS	Feasibility Study
ft bgs	feet below ground surface
GCTS	groundwater collection and treatment system
ICM	interim corrective measure
IGWMP	Interim Groundwater Monitoring Program
IRZ	*in-situ* reactive zone
Lockheed Martin	Lockheed Martin Corporation
mg/L	milligrams per liter
MNA	monitored natural attenuation
MW	monitoring well
NYSDEC	New York State Department of Environmental Conservation
ORP	oxidation-reduction potential
PCE	tetrachloroethene
PZ	piezometer
QA/QC	quality assurance/quality control
SB	Statement of Basis
SGV	standards and guidance values
SIR	Supplemental Investigation Report

SMP	Site Management Plan
SPDES	State Pollutant Discharge Elimination System
TCE	trichloroethene
TOGS	Technical and Operational Guidance Series
trans-1,2-DCE	trans-1,2-dichloroethene
µg/L	micrograms per liter
USEPA	United States Environmental Protection Agency
VC	vinyl chloride
VOC	volatile organic compound

1.0 INTRODUCTION

On behalf of Lockheed Martin Corporation (Lockheed Martin), Stantec Consulting Services Inc. (Stantec) has prepared this Groundwater Monitoring Report (report) as an appendix to the *2016 Site Management Report* for the former Lockheed Martin French Road facility (herein, "the site") in Utica, New York. This work was completed as a part of the Corrective Measures Implementation Plan (CMIP) required by the "Order on Consent" (herein, the Order) issued by the New York State Department of Environmental Conservation (NYSDEC) on October 3, 2008 (NYSDEC, 2008). In March 2015, NYSDEC issued the Final Statement of Basis (SB) for the site (NYSDEC, 2015), which selected the corrective measures for site remediation based on findings summarized in the 2013 *Corrective Measures Study* (*CMS 2013 Report*; ARCADIS, 2013). One of the requirements of the SB is continued groundwater monitoring (described further in Section 2.3). Per SB requirements, groundwater monitoring continued throughout 2016. The *Interim Groundwater Monitoring Program* (*IGWMP*) was originally authored in October 2009 by ARCADIS and is the basis for the groundwater monitoring program summarized in the sections below. The *IGWMP* was subsequently revised in February 2012 (ARCADIS, 2012) and in May 2016 (Stantec, 2016a). As stipulated by NYSDEC, alterations to the *IGWMP* will be retained in an internal draft until more substantive changes are adopted and NYSDEC directs that an updated version be submitted for their review. A revised version of the *IGWMP* was included in the Draft Site Management Plan (SMP) provided to NYSDEC in July 2016 (Stantec 2016a).

2.0 DESCRIPTION OF SITE GROUNDWATER IMPACTS

Groundwater beneath the northeast portion of the main manufacturing building and along the Former Northern Perimeter Ditch (FNPD) has been impacted by volatile organic compounds (VOCs). The former Solvent Dock and immediate vicinity (referred to hereafter as the Solvent Dock Area) once contained a 275-gallon underground fiberglass overflow-retention tank. This tank stored spent waste solvents, and upon its removal in June 1990 it was observed that the tank was dented and leaking fluid. The FNPD (running along the northern property boundary) was an open-drainage swale that received stormwater from the area north of the manufacturing building and conveyed the water, along with stormwater from the western portion of the property, to a manhole before discharging it to the municipal storm sewer.

2.1 INVESTIGATION HISTORY

General Electric, Martin Marietta Corporation, and Lockheed Martin have investigated groundwater in these areas since 1991. In November 1994, Blasland, Bouck, & Lee, Inc. (BBL) investigated the facility storm sewer in the Solvent Dock Area. That investigation determined that VOCs detected in the storm sewer are attributable to the discharge of VOC-contaminated groundwater into the FNPD and infiltration of VOC-contaminated groundwater from the Solvent Dock Area into the storm sewer beneath the building.

In 1995 BBL completed a *Storm Sewer Investigation Report* (BBL, 1995a) and a *Storm Sewer Basis of Design Report* (BBL, 1995b), which recommended that the contaminated portion of the storm sewer flow be collected, treated, and discharged to meet proposed State Pollutant Discharge Elimination System (SPDES) VOC-effluent limitations. BBL completed the final design of the French Road facility groundwater collection and treatment system (GCTS) in October 1995 to remedy contaminated groundwater by addressing the source of VOCs entering the storm sewer. The initial system construction was completed in June 1996 as an interim corrective measure (ICM). The GCTS was expanded and upgraded in 2010. See Section 1.3 of the 2016 Annual Site Management Report for details regarding the GCTS.

Lockheed Martin's investigations into the areas of concern identified at the site were presented in the 2009 *Corrective Measures Study Report* (*CMS 2009 Report*; ARCADIS, 2009). The *CMS 2009 Report* selected monitored natural attenuation (MNA) as one of the remedial alternatives to be used as a corrective measure to address site groundwater contamination. Additionally, the *CMS 2009 Report* concluded that supplemental investigations in specific areas of the site were warranted to fully characterize the extent of contamination and to confirm the effectiveness of the remedial action recommendations. These investigations are summarized in the *Former Northern Perimeter Ditch Supplemental Investigation Report* (SIR) (*FNPD SIR*; ARCADIS, 2011a), which confirmed the presence of VOC-contaminated groundwater near the FNPD.

A feasibility study (FS) report (ARCADIS, 2011b) for the FNPD was submitted to NYSDEC in June 2011. The FS concluded that a combination of *in-situ* biological treatment, continued operation

of the GCTS, institutional controls, and MNA was the most feasible remedial alternative for the FNPD groundwater impacts. A bioremediation pilot test, which was implemented in April 2012, evaluated the feasibility of an *in-situ* reactive zone (IRZ) using injected food-grade molasses as a carbon source to facilitate enhanced reductive dechlorination. The low permeability of the soils and the low injection flow rates observed during the IRZ pilot test demonstrated that *in-situ* biological treatment is not a viable component for full-scale application.

Historical data generated as part of the activities referenced above are included in the following appendices: Appendix D-1 presents data collected from 1996–2008; Appendix D-2 presents data collected from 2008–2009; Appendix D-3 presents data collected in 2010; and Appendix D-4 presents data collected in 2011.

The *CMS 2013 Report,* which was prepared to address the requirements of a letter from NYSDEC to Lockheed Martin dated July 16, 2013, evaluated the performance of the ICMs operating at the facility and recommended a corrective measures alternative pertinent to the FNPD. Following its submittal, the *CMS 2013 Report* was reviewed by NYSDEC for use in preparation of the Statement of Basis for the site. NYSDEC issued its Final SB in March 2015, directing the remedial approach necessary to proceed towards site closure. As described in the SB, the major components of the selected site remedy (specifically pertaining to groundwater impacts) include continued periodic groundwater monitoring, operation and maintenance of the existing GCTS, FNPD source-area soil removal, and institutional controls described in the SMP.

2.2 GROUNDWATER CONTAMINANT DISTRIBUTION

Groundwater under the northeast portion of the main manufacturing building and the FNPD has been contaminated by chlorinated VOCs (CVOCs), including tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), 1,1-dichloroethane (1,1-DCA), and vinyl chloride (VC). These constituents generally define the contaminants of concern (COCs) for the site groundwater monitoring program. Depth to groundwater in these areas is shallow and generally ranges from less than one to twelve feet below ground surface (ft bgs).

The source of the groundwater contamination under the northeast portion of the main manufacturing building was most likely the former 275-gallon overflow-retention tank, which was located immediately north of the loading dock along the northern wall of the manufacturing building.

Soil, groundwater, and surface water samples collected along FNPD during initial and supplemental CMS investigations did not identify a specific source of observed groundwater contamination, such as releases from an underground storage tank, related infrastructure, or specific solvent use. However, samples did identify areas of higher relative impacts that are apparently contributing to the continued presence of VOCs in groundwater along the FNPD. These areas are referred to as Area 1 and Area 2. Area 1 is located at the western end of the maintenance building. Area 2 is located to the north of the pole barn.

Groundwater contamination is found primarily in fill and shallow glacial till soils. The water table is encountered near the bottom of the fill, typically within one foot of contact with the underlying till. Groundwater contamination is observed primarily in wells screened either solely within the fill or within the fill and underlying till. Grain size analysis and hydraulic conductivity testing indicate that the fill and till both have a low capacity to transmit water. The limited permeability of the fill and till units appears to have naturally contained the migration of contaminated groundwater within the northeastern portion of the site. Evidence of off-site migration of contaminated groundwater has not been observed.

2.3 GROUNDWATER MONITORING GOALS AND CRITERIA

As described in the SB, the major components of the selected site remedy (pertaining to groundwater impacts) include FNPD source-area impacted soil removal, continued periodic groundwater monitoring, operation and maintenance of the existing GCTS, and institutional controls (in the form of a Site Management Plan). In accordance with the final directive of the SB, groundwater monitoring continues to be a requirement. The goals for groundwater monitoring, per the SB, are as follows:

- Assess contaminant concentrations over time and ensure the plume does not migrate off-site; and
- Monitor the effectiveness of the GCTS with regard to concentrations and plume boundaries.

The regulatory criteria by which groundwater quality is evaluated continue to be NYSDEC's *Technical and Operational Guidance Series* (TOGS) 1.1.1 *Ambient Water Quality Standards and Guidance Values* (SGVs) and associated addenda (NYSDEC, 1998; NYSDEC, 2000; NYSDEC, 2004).

3.0 GROUNDWATER MONITORING PROGRAM

The *IGWMP* specifies sampling locations, monitoring parameters, and sampling frequency, as described in detail below. Monitoring in 2016 included quarterly events performed in January, April, July, and October 2016. Written summaries of the quarterly events were provided to NYSDEC (Stantec, 2016b-e).

3.1 MONITORING PARAMETERS

Groundwater VOCs comprise the parameters currently monitored at the site. All samples were analyzed by TestAmerica Laboratories, Inc. of Amherst, NY using United States Environmental Protection Agency (USEPA) Method 8260c for Target Compound List VOCs.

Biogeochemical analytical data were historically collected through the January 2013 event at monitoring wells MW-1, MW-3, PZ-13R, A1-PZ-2, and A2-PZ-1 including nitrate, ferrous iron, sulfate, methane, total organic carbon (TOC), and total alkalinity. These data, in conjunction with the field parameters collected at the wells were used to draw general conclusions regarding the groundwater geochemistry at each of the wells. For sampling events after January 2013, analysis of groundwater geochemistry was limited to field parameters including pH, conductivity, dissolved oxygen (DO), and oxidation-reduction potential (ORP), consistent with the sampling and analysis requirements of the *IGWMP*.

During the 2016 monitoring events, wells were purged of three well volumes (if possible assuming sufficient recharge) prior to sampling with dedicated bailers. Groundwater field parameters were recording prior to purging and after each well volume. The following parameters were measured and recorded: pH, conductivity, temperature, DO, ORP, turbidity, and water level. Final DO and ORP were measured using downhole probes with one exception. The downhole ORP sensor is not narrow enough to fit in piezometer A1-PZ-2 due to a <1-inch-diameter constriction near the top of the well casing. The singular exception to obtaining downhole ORP is acceptable given the amount of *in-situ* ORP data that is collected from the rest of the sampled locations in the monitoring network, providing sufficient information to effectively characterize the redox conditions of the site groundwater.

Appendix D-6 contains the completed sampling logs for each of the quarterly events in 2016.

3.2 MONITORING LOCATIONS AND OBJECTIVES

The monitoring well network is presented in Table D-1 and shown on Figure D-1. Wells included in the analytical sampling program were selected during development of the *IGWMP* as VOC monitoring points based on the current and anticipated extent of contaminants in groundwater. The rationale for sampling each of the wells is as follows:

Well ID	Rationale
MW-1	Within the Solvent Dock Area of groundwater impacts
MW-2	Within the Solvent Dock Area of groundwater impacts
MW-3	Within the Solvent Dock Area of groundwater impacts
MW-4	At the fringe of Solvent Dock Area groundwater impacts; hydraulically upgradient
MW-10	At the fringe of Solvent Dock Area groundwater impacts; hydraulically upgradient
MW-18	Western fringe of FNPD Area 2 groundwater impacts
MW-20	At the fringe of FNPD Area 1 groundwater impacts; monitors groundwater quality at the western extent of FNPD groundwater impacts
MW-21	At the fringe of FNPD Area 1 groundwater impacts; monitors groundwater quality at the southwestern extent of FNPD groundwater impacts
PZ-5	Within the Solvent Dock Area of groundwater impacts
PZ-6	Within the Solvent Dock Area of groundwater impacts
PZ-8	Within the Solvent Dock Area of groundwater impacts
PZ-11R	Edge of Solvent Dock Area of groundwater impacts
PZ-13R	Edge of Solvent Dock Area of groundwater impacts
A1-PZ-2	At the fringe of FNPD Area 1 groundwater impacts; monitors groundwater quality at the western extent of FNPD impacts
A2-PZ-1	Within FNPD Area 2 groundwater impacts
A2-PZ-2	Within FNPD Area 2 groundwater impacts

As indicated in Table D-1, groundwater elevation measurements were collected for each event before groundwater sampling at all accessible site monitoring wells. Groundwater elevation measurements are provided in Table D-2 and groundwater contour plans for each event are shown on Figure D-2a through Figure D-2d. Table D-3 provides the construction details of the monitoring wells and piezometers in the monitoring well network.

The objectives of the monitoring network wells are:

Objective 1 – Verify that contaminant concentrations are decreasing with time such that cleanup goals will be met. This objective will be met by monitoring those wells where exceedances have been reported. Long-term trend analysis will identify statistically-significant trends in contaminant concentrations.

Objective 2 – Confirm that contamination is not migrating to uncontaminated areas. Contaminants are expected to continue to disperse within known groundwater flow pathways. This objective will be met by monitoring those wells across the site (laterally and vertically) that [generally] yield COC concentrations below cleanup goals. Contamination in these locations is expected to be sometimes detectable but below cleanup goals.

Objective 3 – Monitor contaminant levels at potential exposure points under current land use conditions. The monitoring well network will monitor contaminant levels at the site such that,

in the event that subsurface work is performed in Objective 3 areas, workers may be informed in advance of the types and levels of chemicals present. Based on this information, subsurface work can be performed while employing appropriate worker protection and waste management procedures. Wells selected for this objective are in locations that would cover potential areas of subsurface work, including both interior and exterior areas.

Objective 4 – Monitor site hydrogeologic conditions over time to identify any changes in groundwater flow that might compromise human health or the environment. This includes evaluating groundwater elevations in both the overburden and bedrock monitoring wells. Monitoring wells that support this objective span the site (laterally and vertically) and will detect changes in groundwater flow that might affect contaminant migration. All site monitoring well locations will be monitored quarterly for groundwater elevations, and are therefore included as Objective 4 locations.

As a whole, the four objectives described above are intended to: (1) verify that the contaminant concentrations do not pose a significant risk to human health or the environment; (2) confirm that any changes to contaminant distribution through potential plume migration do not pose a significant risk to human health or the environment; and (3) monitor site hydrogeology to detect changing conditions that might affect future environmental decision-making or present a risk to human health or the environment. Table D-4 identifies the monitoring locations for Objectives 1 through 3, all of which are included within the Objective 4 designation.

4.0 2016 GROUNDWATER MONITORING

In 2016, groundwater monitoring events were conducted on the following dates:

- January 5 - 7;
- April 5 - 7;
- July 11 - 13; and
- October 10 - 11.

Analytical results from the 2016 groundwater sampling events are summarized in Table D-5, and are plotted on Figure D-3a through Figure D-3d. Appendix D-5 contains laboratory analytical reports related to 2016 sampling and Appendix D-6 contains the groundwater sampling logs from the four sampling events.

As prescribed in the *IGWMP*, evaluation of data for each of the four objectives was conducted after each sampling event. An evaluation of the cumulative data including sampling events conducted in 2016 is presented in the following sections. The monitoring locations with sufficient historical data were evaluated against recent results (in accordance with the *IGWMP*) and conclusions and recommendations are presented, where appropriate.

Note that starting in 2017, the groundwater monitoring program has transitioned to annual sampling. This was proposed in the 2015 Annual *Site Management Report* (Stantec 2016f), which was approved by NYSDEC on May 24, 2016.

4.1 EVALUATION OF 2016 GROUNDWATER MONITORING RESULTS

Groundwater quality is assessed by comparing the analytical results to NYSDEC's TOGS 1.1.1 *Ambient Water Quality* SGVs. This comparison is depicted in Table D-5 and on Figure D-3a through Figure D-3d.

The contaminants detected at the site are consistent with those historically present. Chlorinated VOCs including PCE, TCE, cis-1,2-DCE, 1,1-DCA, and VC are the primary COCs reported at concentrations exceeding the respective SGVs. In addition, trans-1,2-dichloroethene (trans-1,2-DCE), 1,2-dichloroethane (1,2-DCA), 1,1-dichloroethene (1,1-DCE), and two Freon compounds (Freon 12 [dichlorodifluoromethane] and Freon 113 [1,1,2-trichloro-1,2,2-trifluoroethane]) were detected at concentrations above the SGVs at sampling location A2-PZ-1. Non-aqueous-phase liquids were not observed in any wells during 2016. COC concentrations in piezometer A2-PZ-1 (an Objective 1 well located in FNPD Area 2) continue to be the highest detected at the site.

The site-wide performance monitoring decision tree (Figure D-4) provides a general process for evaluating statistical results and selecting a response action (when necessary) to ensure the sufficiency and success of the groundwater monitoring program. The monitoring well network and sampling program are designed to monitor long-term trends in groundwater contamination across the site, with specific wells designated based on the objectives stated in the *IGWMP*.

Persistent, increasing trends and/or a sudden increase in individual COC concentrations may signify unexpected changes in the plume and, therefore, trigger a response action according to the decision tree. The following three metrics are used herein for evaluating the analytical groundwater data: (1) Mann-Kendall trend test, (2) sudden increase analysis, and (3) historical maximum comparison.

The initial step of the overall trend analysis was to determine which wells and parameters met the criteria for performing a Mann-Kendall calculation and would therefore be included in the statistical tests. This process included screening COC concentrations against their respective cleanup goals and identifying SGV exceedances and concentration increases. To account for seasonal variations and to detect a current trend, eight consecutive rounds are used for Mann-Kendall statistical analysis. For the wells sampled quarterly, this allows for evaluation of two full years of data. However, three of the wells included in this analysis (MW-2, MW-4, and MW-10) have only been sampled annually; thus, the eight rounds of data used for statistical analysis span eight years (2008 through 2016). Seasonality is not addressed in trend evaluation for the wells sampled annually as the sampling occurs in the same season (fall) each year. Note that 2008 was an exception as there were two rounds of sampling: one in the summer and one in the fall.

Data included in the three statistical metrics were collected from February 1995 through October 2016. Concentration vs. time plots (Figure D-5a through Figure D-5o) of data for each well included in the statistical evaluation were generated to qualitatively identify temporal patterns in the data, such as periodic fluctuations (e.g., seasonality), or an apparent overall trend in the data (e.g., increasing, decreasing, or stable). It should be noted that in some limited instances, additional data beyond those collected as part of the *IGWMP* are included in the concentration vs. time plots. Statistical metrics, however, employ only those data collected during the quarterly, semi-annual, and annual events (Table D-5) of the program plus the historical monitoring results (Appendix D-1 through Appendix D-4).

1. Mann-Kendall Trend Test

The statistics for the Mann-Kendall test were calculated on an Excel spreadsheet following USEPA guidance (USEPA, 2009a). The Mann-Kendall trend test is a non-parametric test that evaluates trends based on concentrations relative to each other in time, rather than absolute concentration values. Mann-Kendall trend tests were conducted to facilitate evaluation of concentration trends in variable data over time at a given location. All possible pairs of data are considered for each analyte in each well. The pairs of data are compared to determine whether the later data point is a higher or lower concentration than the earlier data point, and the pair is scored as follows: -1 for lower, +1 for higher, and 0 for equal. The Mann-Kendall test statistic "S" is computed based on the sum of all the pair scores. The null hypothesis of *no trend* was evaluated at the 90% confidence level.

The p-value of the correlation (based on the calculated Mann-Kendall test statistic S) provides a measure of the level of significance of the statistical test. Existence of a trend

(either increasing or decreasing) was accepted as significant for p-values less than or equal to 0.05 (significant trend at the 90% confidence level for a two-sided test) and not significant for p-values greater than 0.05. The trend direction was then identified based on review of concentration versus time plots for each COC at a given location (Figure D-5a through Figure D-5o).

Where non-detect concentrations were used in computations, the concentrations were assigned a value of 0.9 times the reporting limit of a given analyte. Analytes with greater than 50% non-detects were not included in the trend analysis. The last eight rounds of data were used in the calculations for the Mann-Kendall analysis in order to evaluate current trends of the contaminant concentrations.

2. Sudden Increase Analysis

The sudden increase evaluation identifies an unexpected increase in contaminant concentrations. Evaluation of groundwater analytical data can identify increases that may have occurred since monitoring began. The most recent eight samples (including the Q4 data from October 2016) were used to calculate a COC-specific mean and standard deviation. A result exceeding the mean plus three standard deviations is considered a sudden increase. The most recent concentration of a given COC in a well was compared to this threshold to determine whether a sudden increase had occurred.

3. Historical Maximum Comparison

Determination of a historical maximum is based on comparison to the entire historical data set. The historical maximum was identified for each well and analyte included in the long-term trend analysis and statistics evaluation. The historical maximum was then compared to the most recent result for the given well and analyte to identify whether the most recent result was *less than*, *greater than*, or *equal to* the historical maximum.

The results from these statistical tests were used in conjunction with the performance monitoring decision tree (Figure D-4) to select response actions for further evaluation, if warranted. Based on the decision tree, there are three scenarios in which findings of the statistical evaluation may trigger a response action: (1) a statistically-significant increasing trend; (2) a sudden increase, and/or (3) exceedance of a historical maximum paired with an increasing trend. Findings are summarized in Table D-6 for the October (Q4) 2016 monitoring event. The following sub-sections will discuss and evaluate the groundwater sampling results for each of the Objective 1, Objective 2, and Objective 3 wells. Note that these metrics do not apply to Objective 4, which only monitors the site hydrogeology and not groundwater quality.

4.1.1 Objective 1 Well Results and Evaluation

The Objective 1 monitoring wells are intended to verify that contaminant concentrations are decreasing such that cleanup goals will be met. Most of the Objective 1 wells demonstrate SGV

exceedances for at least one or more analytes. Long-term trend analysis began with Objective 1 wells in order to monitor statistically-significant trends in contaminant concentrations, in response to natural attenuation.

All twelve Objective 1 wells were included in this evaluation: A1-PZ-2, A2-PZ-1, A2-PZ-2, MW-1, MW-3, MW-18, MW-20, PZ-5, PZ-6, PZ-8, PZ-11R, and PZ-13R. Well PZ-13R was included this year due to a slight SGV exceedance in Q4 (October 2016) for TCE. The following summarizes the statistical evaluation of the Objective 1 wells:

- No Q4 results exceeded the historical maxima at any of the Objective 1 wells for any of the included analytes. In Q1 and Q2, the concentration of PCE exceeded the historical maximum at MW-18. In Q1, the concentration of TCE exceeded the historical maximum at MW-18. No other exceedances of historical maxima were observed in 2016.
- No sudden increases were identified at any of the Objective 1 wells for any of the included analytes.
- One statistically-significant increasing trend was identified for cis-1,2-DCE at MW-1, although it appears to be reflective of fluctuations around historically low concentrations. The relatively elevated concentrations observed in Q3 and Q4 do not appear to be related to groundwater geochemistry or water table fluctuations. No other statistically-significant increasing trends were identified.
- One statistically-significant decreasing trend was identified at PZ-5 for PCE. No other statistically-significant decreasing trends were identified.

Overall, 2016 monitoring results for Objective 1 wells indicate that the contaminant levels are either improving or remaining the same, with the exception of the increasing trend for cis-1,2-DCE identified in well MW-1. These results support the interpretation of plume stability.

4.1.2 Objective 2 Well Results and Evaluation

The Objective 2 monitoring well (MW-21) is intended to confirm that contamination is not migrating to other areas of the site beyond those previously identified. VC is the only compound to exhibit SGV exceedances in MW-21. VC was not detected above laboratory reporting limits in Q1 and Q2. The concentration of VC reported in MW-21 was below the SGV in Q3, but slightly exceeded the SGV in Q4 (3.4 µg/L vs. the SGV of 2.0 µg/L). The 2016 results are consistent with previous data exhibiting slight fluctuations of VC concentration around the SGV. The following summarizes the statistical evaluation of VC presence in MW-21:

- No VC results exceeded the historical maximum at MW-21.
- No sudden increases of VC concentration were observed at MW-21.
- The Mann-Kendall analysis did not identify a statistically-significant trend for VC at MW-21.

In summary, the 2016 groundwater sampling results from the Objective 2 monitoring well does not indicate that contamination is migrating beyond the previously-identified areas of impact. These data are indicative of contaminant plume stability.

4.1.3 Objective 3 Well Results and Evaluation

The Objective 3 monitoring wells (MW-2, MW-4, and MW-10) monitor contaminant levels at potential exposure points under current land use conditions such that, in the event that subsurface work is performed in Objective 3 areas, workers may be informed of the types and levels of contaminants present. Based on the information generated from the Objective 3 monitoring wells, subsurface work at or below the water table can be performed as long as workers utilize appropriate personal protective equipment and comply with appropriate waste management procedures. Objective 3 wells are located within areas that may be potential future areas of subsurface work, including both interior and exterior portions of the site. All three Objective 3 wells were included in the Mann-Kendall analysis. The following summarizes the statistical evaluation of MW-2, MW-4, and MW-10:

- No recent results exceeded the historical maxima for any of the included analytes.
- No sudden increases were identified for any of the included analytes.
- No statistically-significant trends were identified for MW-4 and MW-10.
- Statistically-significant decreasing trends were identified at MW-2 for 1,1-DCA and VC, which is consistent with last year's results.

VC continues to be the only COC reported in MW-4 at a concentration exceeding the SGV. Results for groundwater samples collected at MW-2 and MW-10 indicate that the concentration of both cis-1,2-DCE and VC remain above SGVs at levels consistent with the past five annual events, except at MW-2 where Mann-Kendall analysis indicates a statistically-significant decreasing trend for VC. Overall, results from the Objective 3 monitoring wells indicate that the implications for subsurface work have remained relatively unchanged over the past four years.

4.1.4 Objective 4 Well Results and Evaluation

Objective 4 monitoring wells defined in the *IGWMP* monitor hydrogeologic conditions at the site over time to identify any changes in groundwater flow that might alter the basis of the assumptions used to develop the *IGWMP*. This includes evaluating groundwater elevations in both the overburden and bedrock monitoring wells. Monitoring wells that support this objective span the site (laterally and vertically) and will detect changes in groundwater flow and the directions of potential contaminant migration. Monitoring wells have been gauged quarterly for groundwater elevations and are included as Objective 4 locations. Groundwater elevation data from the 2016 monitoring events are summarized in Table D-2 and shown on Figure D-2a through Figure D-2d. As shown on the contour plans, the highest overburden groundwater levels continue to exist in the area immediately north of the pole barn (FNPD Area 2). Groundwater

flow direction continues to maintain an overall east-southeast trend, with localized variations due to groundwater capture by the GCTS, which is consistent with historical observations. No unusual conditions or significant changes to site hydrogeologic conditions were observed in 2016.

The groundwater elevation at bedrock well MW-15BR continues to rise steadily. Water level data indicate that the groundwater elevation at this location has risen by 14.52 ft since September 2011, and by 1.58 ft over the 2016 monitoring year. The other two bedrock wells (MW-13BR and MW-14BR) have not followed this same pattern. At this time, the cause of this pattern is unknown. Note that bedrock well water levels are not used in the development of groundwater contours.

4.2 SITE GEOCHEMISTRY

Field parameters consisting of pH, DO, ORP, specific conductivity, and temperature are periodically collected to evaluate potential for natural attenuation mechanisms to be occurring. In accordance with sampling and analysis requirements of the *IGWMP*, geochemical analyses have been limited to the field parameters pH, conductivity, DO, and ORP since the April 2013 sampling event; the biogeochemical indicators ferrous iron, nitrate, sulfate, total alkalinity, TOC, and methane have not been collected since the January 2013 sampling event. Field parameter geochemistry results for the 2016 sampling events are summarized in Table D-7 and are described below.

- The pH measured was within the neutral to slightly basic range (6.8 - 8.5).
- DO results ranged from <0.01 to 8.07 mg/L. Monitoring locations MW-18, MW-20, MW-21, and A2-PZ-1 demonstrated consistently anoxic conditions during all four 2016 monitoring events. Aerobic conditions were consistently observed during all four 2016 monitoring events at MW-1, MW-3, A2-PZ-2, PZ-11R, and PZ-13R. The remaining wells sampled during each 2016 event demonstrated variable DO content throughout the year.
- ORP results ranged from -167 to +221 mV, with the majority of wells indicating oxidizing to mildly reducing conditions.

A dark gray clay lens in the till has been observed at most site locations while characterizing the geology during site investigations. Gray clay is typically observed in iron-to-sulfate reducing conditions, as iron oxyhydroxide in the aquifer sediment is reduced to Fe(II) minerals. The Fe(II) data collected in 2012 suggested mild reducing conditions at several monitoring locations at the site. The potential presence of reduced-iron minerals suggests that the natural attenuation mechanism for abiotic degradation of chlorinated VOCs may be active at some locations. As demonstrated in many laboratory and field studies reviewed by USEPA (USEPA, 2009b), reactive iron minerals such as iron sulfides, pyrite, magnetite, green rust, and a number of Fe(II) containing clay minerals commonly observed in reducing environments may play a significant role degrading chlorinated solvents through abiotic mechanisms. The combination of site geology

and groundwater geochemical conditions (neutral pH and reducing environment at some locations) may be conducive to the natural degradation of chlorinated VOCs in groundwater by biotic and/or abiotic pathways in portions of the study area. However, the majority of monitored wells do not exhibit decreasing VOC trends, indicating that natural degradative pathways are having no observable impact, for the most part, on groundwater quality.

4.3 DATA VALIDATION

Groundwater sample analyses were performed using USEPA SW-846 Method 8260c. Data for the fourth quarter sampling event (annual event in October 2016) were reviewed in accordance with the USEPA *National Functional Guidelines* (USEPA, 1999), USEPA Region II SOPs, and NYSDEC Analytical Services Protocol (ASP) 2005. Data packages were compiled by a New York State-certified laboratory and prepared as New York State "Analytical Services Protocol Category B" deliverables. The review was conducted as a "NYSDEC Tier III evaluation" and included a review of data package completeness. A data usability summary report (DUSR) was completed in accordance with NYSDEC DER-10 [*Technical Guidance for Site Investigation and Remediation]* (NYSDEC, 2010). In accordance with NYSDEC's written approval in a letter dated May 24, 2012 (NYSDEC, 2012), a DUSR was prepared for the fourth quarter data only. The DUSR is provided in Appendix D-7.

Data review evaluates data technically, rather than simply determining contract compliance. As such, the standards against which the data are weighed may differ from those specified in the contractually-stipulated analytical method. The data package is thus presumed to represent the best efforts of the laboratory, and the data are likewise presumed to have been subjected to adequate and sufficient quality review before submission. During data review, laboratory qualified and unqualified data are verified against the supporting documentation. The data reviewer may add, delete, or modify qualifier codes. The NYSDEC ASP Category B deliverable data review includes checks of the following:

- chain-of-custody forms;
- holding times;
- Gas Chromatography/Mass Spectrometry (GC/MS) instrument performance checks;
- instrument calibration;
- trip- and/or laboratory (method)-blank detected constituents;
- surrogate-spike recoveries;
- laboratory control sample recoveries;
- matrix-spike/matrix-spike-duplicate precision and accuracy;
- internal standards;
- chromatograms/analyte identification;
- checking for transcriptions between quantitation reports and laboratory, hard-copy Form "I"s; and

- blind-duplicate precision.

The data validator performed final validation of data obtained during field sampling and analysis. Laboratory deliverables were reviewed for accuracy, precision, completeness, and overall data quality. All laboratory data were reviewed for adherence to method-specific quality assurance/quality control (QA/QC) guidelines and the data validation guidelines described above.

Data usability – The review classified the data as valid, usable, or unusable. Valid data are data for which all QA/QC review criteria have been met and that are acceptable (as per details outlined in the preceding section). Data were characterized as usable when QA/QC parameters were marginally outside acceptable limits (e.g., sample holding times had been slightly exceeded), such that the data may be questionable, but still usable with limitations. Unusable data are data observed to have gross errors or analytical interference that would render them invalid for any purpose.

Data qualifications resulting from the review are included in the corresponding data tables and figures. Based on the data review and findings of the DUSR, the data are considered valid or usable.

4.4 SUMMARY AND CONCLUSIONS

Groundwater monitoring data collected in 2016 in conjunction with historical site data lead to the following conclusions:

General COC Observations

- The contaminants detected at the site are consistent with those previously identified in earlier investigations.
- COC concentrations detected in piezometer A2-PZ-1 (an Objective 1 location) continue to be the highest of any sampled well; this condition has existed during the last three years of monitoring.

Objective 1 – COC Observations

- The only exceedances of historical maxima observed in 2016 were at MW-18 (PCE and TCE in Q1; PCE in Q2).
- No sudden increases were identified at any of the Objective 1 wells for any of the included analytes.
- One decreasing trend was identified at PZ-5 for PCE.
- One statistically-significant increasing trend was identified for cis-1,2-DCE at MW-1, although it appears to be reflective of fluctuations around historically-low concentrations. None of the 2015-2016 concentrations of cis-1,2-DCE at MW-1 were

sudden increases or exceedances of the historical maximum. These two metrics, in combination with the historical monitoring dataset, support the conclusion that the increasing trend does not indicate a new release or changing plume conditions. Therefore, no additional action is advised at this time. Monitoring data from 2017 will be similarly evaluated according to these statistical criteria.

Objective 2 – COC Observations

- The only COC above SGVs in MW-21 is VC. Overall, results do not indicate that the groundwater plume is migrating beyond the identified impacted areas of the site.

Objective 3 – COC Observations

- Concentrations of two COCs in MW-2 and MW-10 (cis-1,2-DCE and VC), and one COC at MW-4 (VC) remain above SGVs. Mann-Kendall analysis demonstrated that statistically-significant decreasing trends continue at MW-2 for 1,1-DCA and VC.

Hydrogeology

- Results of the 2016 quarterly water level gauging at site monitoring wells indicate that groundwater is generally flowing to the east-southeast, with localized variations due to groundwater capture by the GCTS, which is consistent with historical observations. No significant changes to site hydrogeologic conditions were observed in 2016, however the overall groundwater elevations throughout the year were generally lower than those of 2015. This is presumed to be a result of the moderate drought conditions experienced in the region of the site throughout 2016.
- The GCTS continues to effectively capture groundwater in proximity to storm drains.
- Evidence of plume expansion or offsite migration has not been observed.

Geochemistry

- Geochemistry data from field sampling indicate an oxidizing to mildly-reducing environment at various locations on the site. Reducing conditions are generally conducive to biotic and/or abiotic degradation of chlorinated volatile organic compounds, although there is little to no evidence of such natural degradation in concentration versus time data collected to date.

5.0 RECOMMENDATIONS

As mentioned above in Section 4.0, beginning in 2017 the groundwater monitoring program will be conducted on an annual basis. With the advent of annual groundwater monitoring, the "Decision Tree for Performance Monitoring" (Figure D-4) as developed in the original *IGWMP* (ARCADIS 2012) will no longer be valid, and the following decision process is recommended.

A statistical sudden increase evaluation will be performed on all VOCs of concern whose results are above the method detection limit. Any constituent in any well whose current concentration is greater than the mean plus three standard deviations, as calculated from the eight previous rounds, is considered to show a statistical sudden increase. If a statistical sudden increase is identified, it should be evaluated in fuller context by considering the following:

- *Relative magnitude of VOC concentrations* – If the "sudden increase" is just fluctuation around historical lows, then the concern may be minor.
- *Nearby well data* – Are neighboring wells showing increases in VOC concentrations as well?
- *Potential impact to receptors* – Is there an imminent risk to human health and/or the environment?

If this further review indicates the statistical sudden increase is a significant event, each so-affected well will be resampled no later than the following quarter (within three months of the previous sampling round) and analyzed for VOCs. The resampled data will be evaluated for statistical sudden increase by replacing the original sample results with the new results and again comparing to the mean plus three standard deviations as calculated from the eight previous rounds. In each case where the resampled data still show a statistical sudden increase, the data will be similarly evaluated by consideration of the larger context as described above.

If the further sampling and statistical evaluation described above suggest there is still a potential concern, then quarterly monitoring will be resumed at the affected wells until concentrations of individual VOCs return to levels that indicate minimal risk. If conditions persist, the potential need for remedial actions will be evaluated.

6.0 REFERENCES

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TABLES

Table D-1
Sampling Frequency and Parameters for the Monitoring Well Network
2016 Annual Site Management Report
Former Lockheed Martin French Road Facility
Utica, New York

Monitoring Well	Sampling Frequency	Sampling Parameters
MW - 1	Quarterly*	VOCs, Field Parameters
MW - 2	Annual	VOCs, Field Parameters
MW - 3	Quarterly*	VOCs, Field Parameters
MW - 4	Annual	VOCs, Field Parameters
MW - 5	-	-
MW - 6	-	-
MW - 7	-	-
MW - 9	-	-
MW - 10	Annual	VOCs, Field Parameters
MW - 11	-	-
MW - 12	-	-
MW - 13S	-	-
MW - 13T	-	-
MW - 13BR	-	-
MW - 14S	-	-
MW - 14BR	-	-
MW - 15S	-	-
MW - 15BR	-	-
MW-16	-	-
MW-17	-	-
MW-18	Quarterly*	VOCs, Field Parameters
MW-19	-	-
MW-20	Quarterly*	VOCs, Field Parameters
MW-21	Quarterly*	VOCs, Field Parameters
PZ - 2	-	-
PZ - 4	-	-
PZ - 5	Quarterly*	VOCs, Field Parameters
PZ - 6	Semi-Annual*	VOCs, Field Parameters
PZ - 7	-	-
PZ - 8	Quarterly*	VOCs, Field Parameters
PZ - 9	-	-
PZ - 10	-	-
PZ - 11R	Quarterly*	VOCs, Field Parameters
PZ - 13R	Quarterly*	VOCs, Field Parameters
PZ - 17	-	-
PZ - 18	-	-
PZ - 19	-	-
PZ - 20	-	-
PZ - 21	-	-
PZ - 22	-	-
PZ - 23	-	-
PZ - 24	-	-
PZ - 25	-	-
PZ - 26	-	-
PZ - 27	-	-
PZ - 28	-	-
PZ - 29	-	-
PZ - 30	-	-
PZ - 31	-	-
PZ - 32	-	-
PZ - 33	-	-
PZ - 34	-	-
PZ - 35	-	-
PZ - 36	-	-
PZ - 39	-	-
PZ - 40	-	-
PZ - 41	-	-
PZ - 42	-	-

See next page for notes.

Table D-1
Sampling Frequency and Parameters for the Monitoring Well Network
2016 Annual Site Management Report
Former Lockheed Martin French Road Facility
Utica, New York

Monitoring Well	Sampling Frequency	Sampling Parameters
A1 - PZ - 1	-	-
A1 - PZ - 2	Quarterly*	VOCs, Field Parameters
A2 - PZ - 1	Quarterly*	VOCs, Field Parameters
A2 - PZ - 2	Quarterly*	VOCs, Field Parameters
A2 - PZ - 3	-	-
A2 - PZ - 4	-	-
A2 - PZ - 5	-	-
A2 - PZ - 6	-	-
A2 - PZ - 7	-	-
A2 - PZ - 8	-	-

Notes:

1. All wells and piezometers were measured for groundwater elevations on a quarterly basis during the 2016 monitoring year. Beginning in 2017, the monitoring well network will be gauged annually (see Note 2 below).
2. * Based on the 2015 sampling results, and beginning in 2017, each of the indicated wells switch to annual sampling; the annual sampling frequency was recommended in the *2015 Site Management Report* (Stantec, March 2016), and approved by NYSDEC on May 24, 2016.
3. VOCs = volatile organic compounds
4. - = Not sampled as part of the 2016 groundwater monitoring program.

Table D-2
Groundwater Elevation Measurements
2016 Annual Site Management Report
Former Lockheed Martin French Road Facility
Utica, New York

Well ID	Top of Casing Elevation (ft)	Ground Water Elevation (ft)							
		Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16
Objective 1									
MW-1	507.27	500.45	500.85	499.41	498.93	499.32	499.52	499.06	498.32
MW-3	509.45	499.57	499.85	498.87	498.55	498.78	498.88	497.56	497.91
MW-18	504.97	502.29	502.12	501.89	501.58	502.19	502.00	501.62	501.43
MW-20	503.40	501.86	502.01	501.28	501.00	501.35	501.40	501.06	500.49
PZ-5*	508.20	498.70	498.46	498.73	498.98	499.98	499.31	498.60	498.89
PZ-6*	508.28	499.12	499.01	499.13	499.07	499.99	499.11	499.03	499.05
PZ-8	508.23	499.60	499.68	499.10	498.86	499.21	498.81	498.70	498.53
PZ-11R	504.88	496.83	496.90	496.39	496.32	496.50	496.52	496.24	496.13
PZ-13R	503.98	495.98	495.96	495.81	495.83	495.89	496.00	495.85	495.82
A1-PZ-2	503.00	--	501.73	501.40	500.77	501.15	501.56	500.89	500.62
A2-PZ-1	509.00	--	505.83	504.88	504.40	504.87	505.06	504.78	504.70
A2-PZ-2	509.74	503.59	503.45	503.39	503.32	503.28	503.09	503.16	503.03
Objective 2									
MW-5	504.33	500.78	501.77	500.02	499.49	500.03	500.44	499.46	500.10
MW-13S	505.81	500.21	500.68	499.37	498.93	499.30	499.52	499.06	DRY
MW-14BR	507.95	447.55	453.44	459.39	464.31	447.89	452.18	458.24	462.85
MW-21	503.66	501.41	501.73	501.48	501.09	499.64	500.74	501.15	500.96
PZ-18	504.85	497.27	497.22	496.99	496.94	497.15	497.16	496.94	496.86
PZ-26	510.95	502.23	502.14	501.98	501.68	501.93	501.70	501.66	501.46
Objective 3									
MW-2	504.60	500.43	501.05	499.50	498.95	499.39	499.67	499.15	498.38
MW-4	506.73	497.11	497.02	495.91	495.28	496.08	496.58	495.61	495.13
PZ-7*	508.26	499.44	499.49	499.50	499.48	499.57	499.38	499.38	499.45
MW-10	504.48	501.33	501.86	499.98	499.34	500.02	500.25	499.56	498.71
Others									
IW-1	506.80	505.25	505.73	504.96	505.03	505.19	505.41	504.86	504.48
MW-6	508.06	502.27	502.22	502.00	501.62	502.00	502.06	501.77	501.24
MW-7	506.94	--	498.80	498.96	499.08	498.49	498.41	498.86	498.94
MW-9	504.84	501.73	502.09	501.21	500.93	502.04	502.15	501.40	500.59
MW-11	507.03	499.31	498.70	499.06	499.09	499.18	498.61	498.91	499.03
MW-12	508.30	496.67	497.92	496.64	496.27	496.83	496.92	496.23	495.97
MW-13BR	506.12	495.73	495.28	494.69	495.52	495.20	496.17	495.40	496.17
MW-14S	507.85	498.05	500.13	499.04	498.12	499.32	499.47	498.08	497.27
MW-15S	507.26	--	499.35	498.99	498.92	499.30	499.08	498.78	498.74
MW-15BR	507.24	--	488.47	488.88	489.39	489.84	490.23	490.65	490.97
MW-16	504.69	501.03	503.46	500.76	500.87	501.09	504.14	501.72	500.71
MW-17	504.64	500.95	501.49	500.71	500.95	501.49	501.73	500.95	500.68
MW-19*	503.07	502.58	502.17	502.32	501.83	501.84	501.80	501.94	501.89
PZ-2*	503.76	501.85	502.14	501.46	501.14	501.36	501.79	501.40	500.87
PZ-4	506.13	504.13	504.16	503.74	503.63	503.78	503.76	503.38	502.97
PZ-9	508.08	500.07	499.99	500.22	500.16	500.11	500.07	500.19	500.17
PZ-10	508.14	499.44	499.50	499.30	499.28	499.46	499.11	499.23	499.23
PZ-17	504.05	497.85	497.66	497.06	497.03	497.34	497.09	496.61	496.66
PZ-19	504.60	--	498.06	497.33	497.40	497.55	497.49	497.22	497.13
PZ-20	503.85	--	497.66	497.01	497.02	497.20	497.28	496.92	496.72
PZ-21	505.70	DRY	496.77	DRY	DRY	DRY	DRY	DRY	DRY
PZ-22	508.57	502.02	501.86	501.18	499.80	501.58	501.34	500.34	499.39
PZ-23	510.07	503.96	503.91	503.59	503.31	503.62	503.05	503.18	503.05
PZ-24	504.77	494.49	494.52	494.12	493.79	494.19	494.18	493.83	493.77
PZ-25	510.62	504.56	504.58	504.23	503.86	504.21	503.86	503.83	503.57
PZ-27	504.12	--	495.36	493.70	492.70	494.09	493.64	492.74	492.57
PZ-28	504.12	500.85	500.74	500.42	500.30	500.58	500.77	497.02	500.05
PZ-29	503.84	--	501.80	501.67	501.61	501.64	501.79	501.68	501.19
PZ-30	504.72	501.44	501.45	501.24	500.92	501.17	501.18	500.86	500.77
PZ-31	506.17	505.86	505.87	505.06	505.67	505.77	505.87	505.11	505.47
PZ-32	504.90	504.15	504.11	503.40	503.44	503.51	504.38	502.88	503.53
PZ-33	510.00	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
PZ-34	503.88	502.00	502.09	501.59	501.19	501.36	501.78	501.06	500.77
PZ-35	503.98	502.32	503.30	502.27	501.86	501.74	502.81	501.86	501.54
PZ-36	504.23	--	503.36	502.90	502.51	502.93	503.47	502.79	502.24
PZ-39	504.51	502.49	503.15	501.54	500.93	501.26	501.87	500.92	500.30
PZ-40	506.68	502.51	502.54	502.09	501.83	501.98	502.23	501.87	501.41
PZ-41	506.27	501.97	502.51	502.01	501.58	501.84	501.95	501.63	501.25
PZ-42	505.18	504.63	504.49	504.53	504.63	504.53	504.73	504.53	504.49
A1-PZ-1	503.77	--	502.70	502.62	502.12	501.82	502.75	502.47	502.15
A2-PZ-3	509.46	508.23	508.05	506.98	506.15	507.64	507.53	505.82	505.36
A2-PZ-4	509.40	--	509.20	507.81	507.97	508.12	508.95	507.27	507.62
A2-PZ-5	510.03	--	508.35	503.13	502.38	506.61	508.49	502.33	502.07
A2-PZ-6	509.74	509.24	509.57	508.39	509.09	509.04	509.38	508.90	508.82
A2-PZ-7	509.59	508.85	508.46	503.94	503.41	506.52	507.69	503.47	503.20
A2-PZ-8	509.70	509.50	509.27	506.42	507.75	508.12	509.36	508.53	507.94

Notes:
1. "--" - Not measured due to access
2. DRY - No measurable water
3. All measurements presented above are given in feet Above Mean Sea Level (AMSL), as measured from the July 1997 National Geodetic Survey datum.
4. PZ-11R, MW-2 and MW-19 measurements were unable to be collected on 10/1/2013. The values presented above were calculated from the initial water level collected during the sampling event between 10/2 and 10/4/2013.
5. The Oct. 2014 MW-14BR groundwater elevation was recorded immediately prior to sampling and not during the earlier gauging event, due to instrument malfunction.
6. PZ-11R was inaccessible on 7/11/16 during gauging (car parked on top of piezometer); the water level was measured the next day on 7/12/16 at 7:40 AM.
7. * Indicates a monitoring well or piezometer with an adjusted TOC elevation following the cutting of casing (MW-19, PZ-5, PZ-6, and PZ-7) or the replacement of PVC top (PZ-2) for improved well cover fitting. Repairs were performed on May 27, 2015 (MW-19), June 17, 2015 (PZ-2), and July 11, 2016 (PZ-5, PZ-6, and PZ-7). The casings were re-surveyed on January 21, 2016 (MW-19 and PZ-2) or re-measured on July 11, 2016 (PZ-5, PZ-6, PZ-7). Note that groundwater elevations calculated prior to the July 2015 monitoring event are based on the previous [surveyed] TOC elevations for MW-19 and PZ-2; the groundwater elevations calculated prior to the October 2016 monitoring event are based on the previous [surveyed] TOC elevations for PZ-5, PZ-6, and PZ-7.

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Monitoring Well and Piezometer Construction Details
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Monitoring Well	Diameter/ Material	Screen Length	Ground Surface Elevation	Top of PVC Riser Elevation	Constructed Well Depth (ft bgs)	Screen Depth (ft bgs)			Screen/Borehole Elevation		Hydrogeologic Unit Monitored	Date Installed	Consultant Name
						From (Top)		To (Bottom)	Top	Bottom			
MW - 1	4" PVC	10	507.51	507.27	17.2	7.0	---	17.0	500.5	490.5	Fill/Till	1991	O'Brien & Gere
MW - 2	4" PVC	15	504.95	504.60	16.5	1.5	---	16.5	503.5	488.5	Fill/Till	1991	O'Brien & Gere
MW - 3	2" PVC	10	507.06	509.45	13.0	3.0	---	13.0	504.1	494.1	Fill/Till	1991	O'Brien & Gere
MW - 4	2" PVC	10	506.98	506.73	14.0	4.0	---	14.0	503.0	493.0	Fill/Till	1991	O'Brien & Gere
MW - 5	2" PVC	10	504.72	504.33	14.0	4.0	---	14.0	500.7	490.7	Fill/Till	1991	O'Brien & Gere
MW - 6	2" PVC	10	505.70	508.06	15.0	5.0	---	15.0	500.7	490.7	Fill/Till	--	O'Brien & Gere
MW - 7	2" PVC	15	507.45	506.94	21.0	6.0	---	21.0	501.5	486.5	Fill/Till	1993	O'Brien & Gere
MW - 9	2" PVC	10	505.18	504.84	13.5	3.5	---	13.5	501.7	491.7	Fill/Till	1993	O'Brien & Gere
MW - 10	2" PVC	10	504.83	504.48	14.0	4.0	---	14.0	500.8	490.8	Fill/Till	1993	O'Brien & Gere
MW - 11	2" PVC	20	507.26	507.03	25.0	5.0	---	25.0	502.3	482.3	Fill/Till	1993	O'Brien & Gere
MW - 12	2" PVC	10	508.60	508.30	23.4	13.0	---	23.0	495.6	485.6	Fill/Till	--	--
MW - 13S	2" PVC	5	506.32	505.81	7.0	2.0	---	7.0	504.3	499.3	Fill	2008	ARCADIS
MW - 13T	2" PVC	10	506.11	505.68	20.0	10.0	---	20.0	496.1	486.1	Till	2008	ARCADIS
MW - 13BR	2" PVC	10	506.36	506.12	45.0	35.0	---	45.0	471.4	461.4	Bedrock	2008	ARCADIS
MW - 14S	2" PVC	10	508.22	507.85	16.0	6.0	---	16.0	502.2	492.2	Undifferentiated Overburden	2008	ARCADIS
MW - 14BR	2" PVC	10	508.20	507.95	67.2	57.2	---	67.2	451.0	441.0	Bedrock	2008	ARCADIS
MW - 15S	2" PVC	10	507.60	507.26	20.0	10.0	---	20.0	497.6	487.6	Undifferentiated Overburden	2008	ARCADIS
MW - 15BR	2" PVC	10	507.53	507.24	67.6	57.6	---	67.6	449.9	439.9	Bedrock	2008	ARCADIS
MW- 16	2" PVC	10	505.09	504.69	15.5	4.9	---	14.9	500.2	490.2	Undifferentiated Overburden	2011	ARCADIS
MW- 17	2" PVC	10	505.04	504.64	15.1	5.1	---	15.1	499.9	489.9	Undifferentiated Overburden	2011	ARCADIS
MW- 18	2" PVC	10	505.42	504.97	15.0	5.0	---	15.0	500.4	490.4	Undifferentiated Overburden	2011	ARCADIS
MW- 19*	2" PVC	10	503.43	503.07	15.5	5.0	---	15.0	498.4	488.4	Undifferentiated Overburden	2011	ARCADIS
MW- 20	2" PVC	10	503.70	503.40	14.9	4.9	---	14.9	498.8	488.8	Undifferentiated Overburden	2011	ARCADIS
MW- 21	2" PVC	10	504.16	503.66	14.9	4.9	---	14.9	499.3	489.3	Undifferentiated Overburden	2011	ARCADIS
PZ - 2*	2" PVC	5	504.13	503.76	10.3	5.0	---	10.0	499.1	494.1	Fill/Till	--	--
PZ - 4	1.25" PVC	5	505.49	505.13	14.3	9.0	---	14.0	496.5	491.5	Fill/Till	--	--
PZ - 5*	1.25" PVC	5	508.44	508.20	10.7	5.7	---	10.7	502.7	497.7	Till	--	--
PZ - 6*	1.25" PVC	5	508.52	508.28	10.4	5.4	---	10.4	503.1	498.1	Till	--	--
PZ - 7*	1.25" PVC	5	508.51	508.26	10.2	5.0	---	10.0	503.5	498.5	Till	--	--
PZ - 8	1" PVC	5	508.43	508.23	16.0	6.0	---	11.0	502.4	497.4	Till	2008	ARCADIS
PZ - 9	1" PVC	5	508.55	508.08	10.0	5.0	---	10.0	503.6	498.6	Till	2008	ARCADIS
PZ - 10	1" PVC	5	508.44	508.14	12.0	7.0	---	12.0	501.4	496.4	Fill	2008	ARCADIS
PZ - 11R	1" PVC	5	505.03	504.68	10.0	5.0	---	10.0	500.0	495.0	Fill	2010	ARCADIS
PZ - 13R	1" PVC	5	504.25	503.98	10.0	5.0	---	10.0	499.3	494.3	Fill	2010	ARCADIS
PZ - 17	1" PVC	5	504.40	504.05	8.5	3.5	---	8.5	500.9	495.9	Fill	2009	ARCADIS
PZ - 18	1" PVC	5	504.85	504.20	9.0	4.0	---	9.0	500.9	495.9	Fill	2009	ARCADIS
PZ - 19	1" PVC	5	504.90	504.60	8.5	3.5	---	8.5	501.4	496.4	Fill	2009	ARCADIS
PZ - 20	1" PVC	5	504.10	503.85	8.0	3.0	---	8.0	501.1	496.1	Fill	2009	ARCADIS

See next page for notes.

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Monitoring Well	Diameter/ Material	Screen Length	Ground Surface Elevation	Top of PVC Riser Elevation	Constructed Well Depth (ft bgs)	Screen Depth (ft bgs)			Screen/Borehole Elevation		Hydrogeologic Unit Monitored	Date Installed	Consultant Name
						From (Top)		To (Bottom)	Top	Bottom			
PZ - 21	1" PVC	6.5	506.00	505.70	9.5	3.0	---	9.5	503.0	496.5	Fill	2009	ARCADIS
PZ - 22	1" PVC	10	505.54	508.57	11.5	1.5	---	11.5	504.0	494.0	Fill/Till	2010	ARCADIS
PZ - 23	1" PVC	2	507.05	510.07	20.0	18.0	---	20.0	489.1	487.1	Till	2010	ARCADIS
PZ - 24	1" PVC	10	504.77	504.77	14.0	4.0	---	14.0	500.8	490.8	Fill/Till	2010	ARCADIS
PZ - 25	1" PVC	10	507.54	510.62	20.0	10.0	---	20.0	497.5	487.5	Fill/Till	2010	ARCADIS
PZ - 26	1" PVC	10	507.80	510.95	20.0	10.0	---	20.0	497.8	487.8	Fill/Till	2010	ARCADIS
PZ - 27	1" PVC	10	504.39	504.12	15.0	5.0	---	15.0	499.4	489.4	Fill/Till	2010	ARCADIS
PZ - 28	1" PVC	10	504.39	504.12	12.0	2.0	---	12.0	502.4	492.4	Fill/Till	2010	ARCADIS
PZ - 29	1" PVC	10	504.06	503.84	12.0	2.0	---	12.0	502.1	492.1	Fill/Till	2010	ARCADIS
PZ - 30	1" PVC	8	505.08	504.72	10.0	2.0	---	10.0	503.1	495.1	Fill/Till	2010	ARCADIS
PZ - 31	1" PVC	8	505.56	505.17	10.0	2.0	---	10.0	503.6	495.6	Fill/Till	2010	ARCADIS
PZ - 32	1" PVC	9	505.29	504.90	11.0	2.0	---	11.0	503.3	494.3	Fill/Till	2010	ARCADIS
PZ - 33	1" PVC	4.5	510.27	510.00	6.5	2.0	---	6.5	508.3	503.8	Fill/Till	2010	ARCADIS
PZ - 34	1" PVC	9	504.12	503.88	11.0	2.0	---	11.0	502.1	493.1	Fill/Till	2010	ARCADIS
PZ - 35	1" PVC	8	504.18	503.98	12.0	2.0	---	12.0	502.2	492.2	Fill/Till	2010	ARCADIS
PZ - 36	1" PVC	10	504.23	504.23	12.0	2.0	---	12.0	502.2	492.2	Fill/Till	2010	ARCADIS
PZ - 39	1" PVC	10	504.71	504.51	12.0	2.0	---	12.0	502.7	492.7	Fill/Till	2010	ARCADIS
PZ - 40	1" PVC	10	506.46	506.68	11.5	1.5	---	11.5	505.0	495.0	Fill/Till	2010	ARCADIS
PZ - 41	1" PVC	10	506.55	506.27	11.5	1.5	---	11.5	505.1	495.1	Fill/Till	2010	ARCADIS
PZ - 42	1" PVC	10	505.45	505.18	11.8	1.0	---	11.0	504.5	494.5	Fill/Till	2010	ARCADIS
A1 - PZ - 1	1" PVC	10	503.96	503.77	12.5	2.5	---	12.5	501.5	491.5	Fill/Till	2010	ARCADIS
A1 - PZ - 2	1" PVC	10	503.25	503.00	12.0	2.0	---	12.0	501.3	491.3	Fill/Till	2010	ARCADIS
A2 - PZ - 1	1" PVC	10	510.04	509.00	15.0	5.0	---	15.0	505.0	495.0	Fill/Till	2010	ARCADIS
A2 - PZ - 2	1" PVC	10	509.90	509.74	15.0	5.0	---	15.0	504.9	494.9	Fill/Till	2010	ARCADIS
A2 - PZ - 3	1" PVC	10	509.67	509.46	12.0	2.0	---	12.0	507.7	497.7	Fill/Till	2010	ARCADIS
A2 - PZ - 4	1" PVC	12	509.56	509.40	15.0	3.0	---	15.0	506.6	494.6	Fill/Till	2010	ARCADIS
A2 - PZ - 5	1" PVC	10	510.24	510.03	12.0	2.0	---	12.0	508.2	498.2	Fill/Till	2010	ARCADIS
A2 - PZ - 6	1" PVC	12	509.92	509.74	14.0	2.0	---	14.0	507.9	495.9	Fill/Till	2010	ARCADIS
A2 - PZ - 7	1" PVC	12.5	509.74	509.59	15.0	2.5	---	15.0	507.2	494.7	Fill/Till	2010	ARCADIS
A2 - PZ - 8	1" PVC	12	509.91	509.70	14.5	1.5	---	14.5	508.4	495.4	Fill/Till	2010	ARCADIS
IW-1	4" Steel	9.75	503.70	503.30	14.6	4.9	---	14.6	498.8	489.1	Fill/Till	2011	ARCADIS

Notes:
1. All elevations are reported as feet mean sea level (ft msl).
2. Construction details for MW-1, MW-6, PZ-2, and PZ-4 through PZ-7 estimated based on field measurements.
3. ft bgs = feet below ground surface
4. PVC - polyvinyl chloride
5. Survey data referenced horizontally to the NAD83 and projected on the New York State Plane Coordinate System (Central Zone).
6. The reference vertical benchmark is the finished floor elevation of the southeasterly corner of the Boiler House Building (Elevation 506.50 feet).
7. -- = unknown detail
8. * Indicates a monitoring well or piezometer with an adjusted TOC elevation following the cutting of casing (MW-19, PZ-5, PZ-6, and PZ-7) or the replacement of PVC top (PZ-2) for improved well cover fitting. Repairs were performed on May 27, 2015 (MW-19), June 17, 2015 (PZ-2), and July 11, 2016 (PZ-5, PZ-6, and PZ-7). The casings were re-surveyed on January 21, 2016 (MW-19 and PZ-2) or re-measured on July 11, 2016 (PZ-5, PZ-6, PZ-7).

Table D-4
List of Monitoring Wells Based on Objectives
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Objective 1 Monitoring Network	Objective 2 Monitoring Network	Objective 3 Monitoring Network
MW-1	MW-21	MW-2
MW-3		MW-4
MW-18		MW-10
MW-20		
PZ-5		
PZ-6		
PZ-8		
PZ-11R		
PZ-13R		
A1-PZ-2		
A2-PZ-1		
A2-PZ-2		

Note:
1. All wells will be measured for groundwater elevations on a quarterly basis for Objective 4 requirements.

Table D-5
Groundwater Monitoring Data - September 2011 through October 2016
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	Compound:	**Tetrachloroethene**																				
	NYSDEC TOGS Guidance Value:	**5**																				
	Sampling Date:	Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16
Objective 1	MW-1	**77 [81]**	**78**	**50**	**36**	**99**	**110D [120D]**	**70 [78]**	**69**	**93**	**43 [44]**	**19**	**69 [66]**	**58 [57]**	**48 [48]**	**37 [39]**	**76**	**79**	**48 [52]**	**29**	**32**	**29 [33]**
	MW-3	**9.2**	**22**	**8.2**	**12[12]**	**8.4**	**16**	**12**	**21 [22]**	**9.6 [9.5]**	4.3	**7.9 [8.1]**	**16**	4.2	**7.0**	**25**	**16 [16]**	**12**	**24**	**19 [17]**	**12**	3.3
	MW-18	--	--	**64 D**	**57**	**11**	**130 D**	**95**	**29**	**16 J**	**37**	**180**	**20**	**14**	**56**	**75**	40 U	**18 J**	**290**	**480**	**120**	**85**
	MW-20	--	--	7.2U	5.0 U	1.0 U	1.0 U	0.36 U	0.36 U	1.0 UJ	0.72 U	2.0 U	0.72 U	0.36 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	1.0 U [1.0 U]	5.0 U
	PZ-5	**59**	**170**	**290**	NS	**7.2**	**55**	**5.5**	**130**	**190**	**150**	NS	**340**	**260**	**160**	**300**	**240**	**160**	**160**	**170**	**110**	**11**
	PZ-6	**72**	**--**	**49**	**--**	**7.2**	--	**8.9**	--	**100 D**	--	**19**	--	**81**	**81**	**85**	4.0	**14**	**50**	**33**	--	**7.0**
	PZ-8	**350 D**	**470**	NS	NS	**380**	**450 D**	**350**	**280**	NS	NS	**270**	**280**	NS	**55**	**190**	**210**	NS	**160**	**160**	NS	NS
	PZ-11R	**5.5**	2.2	2.7	**5.2**	2.8	1.9	1.8	4.4	1.4	1.3	0.99 J	1.9	2.4	1.8	1.4	2.9	3.4	2.4	1.9	4.6	4.2
	PZ-13R	1.7	0.98 J	0.75 J	1.1	0.59 J	1.0 U	0.57	0.92	0.59 J	0.49	1.0 U	0.67	0.89	0.66	1.0 U	0.83 J	1.1	0.88 J	0.59 J	1.2	1.3
	A1-PZ-2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.36 U	0.36 U	1.0 U	0.36 U	1.0 U	0.36 U	0.36 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	A2-PZ-1	5	250 U	250 U **[5.3]**	250 U	250 U	1.0 U	90 U	90 U	250 U	90 U	250 U	90 U	180 U	3.2	1.7	4.4	1.8	100 U	200 U	3.2	2.2
	A2-PZ-2	--	--	**2300 D**	**810**	**730**	**1700 D**	**440 D**	**800**	**520**	**310**	**220**	**410**	**120**	**690**	**720**	**650 T**	**340**	**910**	**720**	**1100**	**400**
Objective 2	MW-5	1.0 U	**--**	1.0 U	--	0.55 J	--	0.36 U	--	1.0 UJ	--	1.0 U	--	0.36 U	--	1.0 U	--	1.0 U	--	--	--	--
	MW-13S	1.0 U	NS	NS	NS	NS	1.0 U	0.36 U	0.36 U	NS	NS	1.0 U	0.36 U	NS	1.0 U	1.0 U	1.0 U	NS	1.0 U	--	--	--
	MW-14BR	1.0 U	**--**	--	--	1.0 U	--	--		1.0 U	--	--	--	0.36 U	--	--	--	1.0 U	--	--	--	--
	MW-21	--	**--**	1.0 U	1.0 U	1.0 U	1.0 U	0.36 U	0.36 U	1.0 U	0.36 U	1.0 U	0.36 U	0.36 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U
	PZ-18	1.0 U	**--**	--	--	0.41 J	--	--	--	1.0 U	--	--	--	0.36 U	--	--	--	0.36 J	--	--	--	--
	PZ-26	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.36 U	--	--	--	1.0 U	--	--	--	--
Objective 3	MW-2	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.36 U	--	--	--	1.0 U	--	--	--	1.0 U
	MW-4	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.36 U [3.6 U]	--	--	--	1.0 U	--	--	--	1.0 U
	MW-10	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U [1.0 U]	--	--	--	0.36 U	--	--	--	1.0 U [1.0 U]	--	--	--	1.0 U
	PZ-7	1.0 U	**--**	1.0 U	--	1.0 U	--	0.36 U	--	1.0 U	--	1.0 U	--	0.36 U	--	1.0 U	--	1.0 U	--	--	--	--

See last page for notes.

Table D-5
Groundwater Monitoring Data - September 2011 through October 2016
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	Compound:	Trichloroethene																				
	NYSDEC TOGS Guidance Value:	5																				
	Sampling Date:	Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16
Objective 1	MW-1	18 [19]	23	18	14	25	20 [20]	14 [14]	16	24	13 [14]	7.2	17 [16]	19 [19]	14 [13]	9.7 [10]	14	15	12 [11]	6.8	13	12 [14]
	MW-3	16	24	10	12 [11]	12	13	10	8.9 [9.6]	11 [12]	5.2	3.0 [3.0]	8.3	6.4	6.4	14	9.5 [9.8]	7.2	15	11 [11]	12	6.4
	MW-18	--	--	120 D	220	80	420 D	290	170	160	180	340	140	180	290	470	110	120	510	170	160	120
	MW-20	--	--	170	2.6 J	1.0 U	1.0 U	0.46 U	0.46 U	1.0 UJ	0.92 U	2.0 U	0.92 U	0.46 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	1.0 U [1.0 U]	5.0 U
	PZ-5	91 D	52	61	NS	3.9 J	47	4.5	97	200	89	NS	53	65	86	60	86	70	41	42	75	19
	PZ-6	20	--	44	--	20	--	21	--	25	--	28	--	42	38	36	5.8	14	11	14	--	19
	PZ-8	290 D	410	NS	NS	320	260 D	220	180	NS	NS	210	180	NS	58	230	220	NS	180	120	NS	NS
	PZ-11R	9.0	4.2	4.5	8.7	6	3.9	2.9	5.6	4.7	2.3	1.9	3.8	5.3	3.4	2.0	5.4	5.9	3.3	2.5	5.4	7.2
	PZ-13R	5.5	3.7	3.9	4.3	3.5	3.2 J	2.8	4.1	4.2	2.4	1.0 U	2.3	3.7	2.8	1.7	3.2	4.6	3.1	2.0	4.3	5.1
	A1-PZ-2	1.7	1.0 U	1.2	1.0 U	1.0 U	1.0 U	0.46 U	0.46 U	1.0 U	0.46 U	1.0 U	0.46 U	0.46 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	A2-PZ-1	2100 D	2300	4100 [4800]	2600	1500	1100	2300	2300	1300	1200	1300	5500	2300	880	480	1900	420	520	830	600	530
	A2-PZ-2	--	--	740 D	360	330	580 D	390	380	260	160	100	170	85	270	260	240 T	140	360	260	430	230
Objective 2	MW-5	1.0 U	--	1.0 U	--	1.0 U	--	0.46 U	--	1.0 UJ	--	1.0 U	--	0.46 U	--	1.0 U	--	1.0 U	--	--	--	--
	MW-13S	1.0 U	NS	NS	NS	NS	1.0 U	0.46 U	0.46 U	NS	NS	1.0 U	0.46 U	NS	1.0 U	1.0 U	1.0 U	NS	1.0 U	--	--	--
	MW-14BR	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.46 U	--	--	--	1.0 U	--	--	--	--
	MW-21	--	--	1.0 U	1.0 U	1.0 U	1.0 U	0.46 U	0.46 U	1.0 U	0.46 U	1.0 U	0.46 U	0.46 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U
	PZ-18	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.46 U	--	--	--	0.48 J	--	--	--	--
	PZ-26	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.46 U	--	--	--	1.0 U	--	--	--	--
Objective 3	MW-2	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.46 U	--	--	--	1.0 U	--	--	--	1.0 U
	MW-4	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.46 U [4.6 U]	--	--	--	1.0 U	--	--	--	1.0 U
	MW-10	2.5	--	--	--	1.7	--	--	--	0.72 J [0.79 J]	--	--	--	1.0	--	--	--	0.61 J [0.58 J]	--	--	--	0.87 NJ
	PZ-7	0.58 J	--	1.0 U	--	1.0 U	--	0.46 U	--	1.0 U	--	0.59 J	--	0.46 U	--	1.0 U	--	1.0 U	--	--	--	--

See last page for notes.

Table D-5
Groundwater Monitoring Data - September 2011 through October 2016
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Former Lockheed Martin French Road Facility
Utica, New York

	Compound:	cis-1,2 Dichloroethene																				
	NYSDEC TOGS Guidance Value:	5																				
	Sampling Date:	Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16
Objective 1	MW-1	40 [39]	35	34	40	44	20 [20]	19 [20]	11	19 J	17 [18]	6.2	15 [14]	23 [23 J]	11 [11]	8.7 [8.5]	12	9.1	15 [14]	18	24	23 [25]
	MW-3	68	40	21	23 [23]	46	26	16	15 [15]	28 [29]	15	3.6 [3.9]	17	27	15	12 F1	14 [14]	16	24	13 [14]	19	22
	MW-18	--	--	420 D	890	420	1500 D	1700 D	1400	1700	1100	1200	1000	1600	1500	1900	800	630	670	210	500	780
	MW-20	--	--	1400 J	890 D	1.0 U	1.0 U	1.2	0.93	1.0 UJ	1.6 U	2.0 U	2.4	0.81 U	1.0 U	1.2	1.7	5.0 U	5.0 U	5.0 U	0.92 J [1.1]	5.0 U
	PZ-5	53	41	41	NS	160	88	13	130	64	44	NS	39	46	47	41	43	57	30	24	41	35
	PZ-6	20	--	58	--	21	--	19	--	17	--	18	--	20	21	20	5.8	10	9.6	9.5	--	22
	PZ-8	77	91	NS	NS	56	52	36	26	NS	NS	34	28	NS	14	42	30	NS	34	20	NS	NS
	PZ-11R	5.0	3.3	1.9	2.4	2.8	2.8	2.6	4.3	1.8	1.9	2.3	2.0	1.8	3.3	2.9	2.3	1.7	3.0	1.6	1.8	1.7
	PZ-13R	2.4	1.1	1.2	1.7	1.9		0.81 U	1.3	1.7	0.81 U	1.0 U	1.2	1.7	0.99 J	1.0 U	1.3	2.0	1.3	1.0 U	1.9	2.2
	A1-PZ-2	99	22	58	57	10	11	1.3	2	1.1	0.81 U	1.0 U	1.1	1.2	1.0 U	1.9	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	A2-PZ-1	27000 D	42000 D	24000 [28000 D]	17000	23000	17000	19000	18000	24000	22000	11000	35000	34000	19000	7100 F1	16000	7400	17000	20000	13000	12000 J
	A2-PZ-2	--	--	210 D	130	120	190 D	150	150	95	100	58	100	69	120	120	110	61	150	120	160	82
Objective 2	MW-5	1.0 U	--	1.0 U	--	1.0 U	--	0.81 U	--	1.0 UJ	--	1.0 U	--	0.81 U	--	1.0 U	--	1.0 U	--	--	--	--
	MW-13S	1.0 U	NS	NS	NS	NS	1.0 U	0.81 U	0.81 U	NS	NS	1.0 U	0.81 U	NS	1.0 U	1.0 U	1.0 U	NS	1.0 U	--	--	--
	MW-14BR	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.81 U	--	--	--	1.0 U	--	--	--	--
	MW-21	--	--	1.0 U	1.0 U	1.0 U	1.0 U	0.81 U	0.81 U	1.0 U	0.81 U	1.0 U	0.81 U	0.81 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U
	PZ-18	0.85 J	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.81 U	--	--	--	1.0 U	--	--	--	--
	PZ-26	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.81 U	--	--	--	1.0 U	--	--	--	--
Objective 3	MW-2	13	--	--	--	14	--	--	--	13	--	--	--	10	--	--	--	7.4	--	--	--	6.4
	MW-4	3.3	--	--	--	4.6	--	--	--	4.4	--	--	--	4.4 [8.1 UJ]	--	--	--	3.9	--	--	--	5.0
	MW-10	53	--	--	--	45	--	--	--	35 [34]	--	--	--	33	--	--	--	29 [29]	--	--	--	31
	PZ-7	1.0 U	--	1.0 U	--	1.0 U	--	0.81 U	--	1.0 U	--	1.0 U	--	0.81 U	--	1.0 U	--	1.0 U	--	--	--	--

See last page for notes.

Table D-5
Groundwater Monitoring Data - September 2011 through October 2016
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Former Lockheed Martin French Road Facility
Utica, New York

	Compound:	**trans 1,2-Dichloroethene**																				
	NYSDEC TOGS Guidance Value:	**5**																				
	Sampling Date:	Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16
Objective 1	MW-1	1.0 U [1.3]	1.0 U	1.0 U	1.4	1.0 U	1.0 U	0.90 U	0.90 U	1.0 U	0.90 U [0.90 U]	1.0 U	0.90 U [0.90 U]	0.90 U [0.90 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]
	MW-3	1.0 U	1.1	1.0 U	1.1 [1]	0.91 J	1.0 U	0.90 U	0.90 U [0.90 U]	1.0 U [1.0 U]	0.90 U	1.0 U [1.0 U]	0.90 U	0.91	1.0 U	1.0 UF1	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U
	MW-18	--	--	1.0 U	2.6	5.0 U	4.4	4.5 U	18 U	20 U	9.0 U	20 U	18 U	18 U	4.7	4.9	40 U	20 U	20 U	20 U	20 U	20 U
	MW-20	--	--	18 J	**22**	**7.1**	1.0 U	4.3	3.9	3.6 J	3.1	4.6	**6.6**	3.1	3.5	3.4	3.8	5.0 U	5.0 U	5.0 U	2.4 [2.4]	5.0 U
	PZ-5	1.0 U	3.6 U	4.0 U	NS	4.0 U	1.2	0.90 U	1.1	2.0 U	1.8 U	NS	1.8 U	4.5 U	1.3	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.3	1.0 U
	PZ-6	1.0 U	--	1.0 U	--	1.0 U	--	0.90 U	--	1.0 U	--	1.0 U	--	0.90 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U
	PZ-8	1.0 U	4.5 U	NS	NS	5.0 U	1	4.5 U	4.5 U	NS	NS	5.0 U	4.5 U	NS	1.0 U	1.2	5.0 U	NS	5.0 U	5.0 U	NS	NS
	PZ-11R	1.0 U	0.97	1.0 U	1.0 U	1.0 U	1.0 U	0.9 U	0.90 U	1.0 U	0.90 U	1.0 U	0.90 U	0.90 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-13R	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.9 U	0.90 U	1.0 U	0.90 U	1.0 U	0.90 U	0.90 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	A1-PZ-2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.9 U	0.90 U	1.0 U	0.90 U	1.0 U	0.90 U	0.90 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	A2-PZ-1	**33**	250 U	250 U **[11]**	250 U	250 U	1.0 U	230 U	230 U	250 U	230 U	250 U	230 U	450 U	**19**	**8.0**	**14**	**14**	100 U	200 U	**16**	**9.0**
	A2-PZ-2	--	--	1.0 U	10 U	10 U	1.0 U	4.5 U	9.0 U	10 U	4.5 U	5.0 U	4.5 U	1.8 U	1.0 U	10 U	1.0 U	5.0 U	5.0 U	20 U	20 U	8.0 U
Objective 2	MW-5	1.0 U	--	1.0 U	--	1.0 U	--	0.9 U	--	1.0 UJ	--	1.0 U	--	0.90 U	--	1.0 U	--	1.0 U	--	--	--	--
	MW-13S	1.0 U	NS	NS	NS	NS	1.0 U	0.9 U	0.90 U	NS	NS	1.0 U	0.90 U	NS	1.0 U	1.0 U	1.0 U	NS	1.0 U	--	--	--
	MW-14BR	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.90 U	--	--	--	1.0 U	--	--	--	--
	MW-21	--	--	1.0 U	1.0 U	1.0 U	1.0 U	0.9 U	0.90 U	1.0 U	0.90 U	1.0 U	0.90 U	0.90 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U
	PZ-18	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.90 U	--	--	--	1.0 U	--	--	--	--
	PZ-26	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.90 U	--	--	--	1.0 U	--	--	--	--
Objective 3	MW-2	2.0	--	--	--	1.7	--	--	--	2	--	--	--	1.7	--	--	--	1.4	--	--	--	1.5
	MW-4	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.90 U [9.0 U]	--	--	--	1.0 U	--	--	--	1.0 U
	MW-10	3.4	--	--	--	3.2	--	--	--	2.3 [2.4]	--	--	--	2.6	--	--	--	2.0 [2.3]	--	--	--	2.8
	PZ-7	1.0 U	--	1.0 U	--	1.0 U	--	0.9 U	--	1.0 U	--	1.0 U	--	0.90 U	--	1.0 U	--	1.0 U	--	--	--	--

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Utica, New York

	Compound:	**Vinyl Chloride**																				
	NYSDEC TOGS Guidance Value:	**2**																				
	Sampling Date:	Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16
Objective 1	MW-1	**3.1 [3]**	1.5	1.7	**4.3**	**3.9**	1.0 U	1.0 U [1.0]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U [1.0 U]	0.91 [1.0 J]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 UJ	1.0 U [1.0 U]	1.6	1.0 U	1.0 U [1.0 U]
	MW-3	**5**	**3.8**	**8.4**	**13 [13]**	**9.1**	**4.3**	**7.8**	2.0 [2.0]	**5.2 [5.4]**	**3.8**	1.0 U [1.0 U]	**5.2**	**2.6**	**3.7**	1.3	**3.4 [3.0]**	1.8	1.5	**3.3 [2.1]**	**3.4**	2.0
	MW-18	--	--	**5.5**	**7.6**	5.0 U	**7.6**	**7.9**	20 U	20 U	10 U	20 U	20 U	20 U	**9.0**	**10**	40 U	20 UJ	20 U	20 U	20 U	20 U
	MW-20	--	--	**63**	**680 D**	1.9	1.0 U	0.96 J	1.0 U	1.0 UJ	2.0 U	**2.8**	**3.3**	1.0 U	1.0 U	**2.5**	**3.6**	5.0 U	5.0 U	5.0 U	1.4 [1.1]	5.0 U
	PZ-5	1.0 U	4.0 U	4.0 U	NS	**27**	**68**	**2.8**	**2.4**	**5.9**	2.0 U	NS	2.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.1
	PZ-6	1.0 U	--	**4.9**	--	**2.1**	--	0.95 J	--	1.0 U	--	1.0 U	--	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U
	PZ-8	1.0 U	5.0 U	NS	NS	5.0 U	1.0 U	5.0 U	5.0 U	NS	NS	5.0 U	5.0 U	NS	1.0 U	1.1	5.0 U	NS	5.0 U	5.0 U	NS	NS
	PZ-11R	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-13R	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	A1-PZ-2	**27**	**11**	**24**	**15**	**8.4**	**5.6**	1.0 U	**2.1**	1.0 U	0.97 J	1.3	2.0	1.0 U	1.0 U	**5.5**	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
	A2-PZ-1	**720 D**	**1800**	**940 [1300 D]**	**830**	**1300**	**840**	**900**	**1000**	**1300**	**900**	**670**	**1300**	**1300**	**960**	**460^**	**850**	**460 J**	**690**	**1400**	**600**	**710**
	A2-PZ-2	--	--	**14**	10 U	10 U	**7.8**	**6.7**	10 U	10 U	5.0 U	5.0 U	5.0 U	**2.3**	10 U	10 U	**4.4**	5.0 UJ	**6.4**	20 U	20 U	8.0 U
Objective 2	MW-5	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 UJ	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--
	MW-13S	1.0 U	NS	NS	NS	NS	1.0 U	1.0 U	1.0 U	NS	NS	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	NS	1.0 U	--	--	--
	MW-14BR	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	--
	MW-21	--	--	**9.3**	**6.5**	**13**	1.0 U	**2.1**	**5**	**5.2**	**3.5**	**2.6**	**3.9**	**2.6**	**2.4**	1.7	2.0	1.4	2.0 U	2.0 U	1.8	**3.4**
	PZ-18	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 UJ	--	--	--	--
	PZ-26	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 UJ	--	--	--	--
Objective 3	MW-2	**33**	--	--	--	**38**	--	--	--	**25**	--	--	--	**14**	--	--	--	**14**	--	--	--	**12**
	MW-4	1.4	--	--	--	**4.8**	--	--	--	**4.2**	--	--	--	**2.3 [10 UJ]**	--	--	--	**3.6**	--	--	--	**3.1**
	MW-10	**23**	--	--	--	**38**	--	--	--	**20 [20]**	--	--	--	**19**	--	--	--	**17 [16 J]**	--	--	--	**23**
	PZ-7	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--

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Former Lockheed Martin French Road Facility
Utica, New York

	Compound:	**1,1,1-Trichloroethane**																				
	NYSDEC TOGS Guidance Value:	**5**																				
	Sampling Date:	Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16
Objective 1	MW-1	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.82 U [0.82 U]	0.82 U	1.0 U	0.82 U [0.82 U]	1.0 U	0.82 U [0.82 U]	0.82 U [0.82 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 UT	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]
	MW-3	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	0.82 U	0.82 U [0.82 U]	1.0 U [1.0 U]	0.82 U	1.0 U [1.0 U]	0.82 U	0.82 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U
	MW-18	--	--	1.0 U	1.0 U	5.0 U	1.0 U	4.1 U	16 U	20 U	8.2 U	20 U	16 U	16 U	1.0 U	1.0 U	40 U	20 U	20 U	20 U	20 U	20 U
	MW-20	--	--	16 U	5.0 U	1.0 U	1.0 U	0.82 U	0.82 U	1.0 UJ	1.6 U	2.0 U	1.6 U	0.82 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	1.0 U [1.0 U]	5.0 U
	PZ-5	1.0 U	3.3 U	4.0 U	NS	4.0 U	1.0 U	0.82 U	0.82 U	2.0 U	1.6 U	NS	1.6 U	4.1 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
	PZ-6	1.0 U	--	1.0 U	--	1.0 U	--	0.82 U	--	1.0 U	--	1.0 U	--	0.82 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U
	PZ-8	1.0 U	4.1 U	NS	NS	5.0 U	1.0 U	4.1 U	4.1 U	NS	NS	5.0 U	4.1 U	NS	1.0 U	1.0 U	5.0 U	NS	5.0 U	5.0 U	NS	NS
	PZ-11R	1.0 U	0.82 U	1.0 U	1.0 U	1.0 U	1.0 U	0.82 U	0.82 U	1.0 U	0.82 U	1.0 U	0.82 U	0.82 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-13R	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.82 U	0.82 U	1.0 U	0.82 U	1.0 U	0.82 U	0.82 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	A1-PZ-2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.82 U	0.82 U	1.0 U	0.82 U	1.0 U	0.82 U	0.82 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	A2-PZ-1	1.0 U	250 U	250 U [1.0 U	250 U	250 U	1.0 U	210 U	210 U	250 U	210 U	250 U	210 U	410 U	1.0 U	1.0 U	1.0 U	1.0 U	100 U	200 U	1.0 U	1.0 U
	A2-PZ-2	--	--	1.0 U	10 U	10 U	1.0 U	4.1 U	8.2 U	1.0 U	4.1 U	5.0 U	4.1 U	1.6 U	10 U	10 U	1.0 U	5.0 U	5.0 U	20 U	20 U	8.0 U
Objective 2	MW-5	1.0 U	--	1.0 U	--	1.0 U	--	0.82 U	--	1.0 UJ	--	1.0 U	--	0.82 U	--	1.0 U	--	1.0 U	--	--	--	--
	MW-13S	1.0 U	NS	NS	NS	NS	1.0 U	0.82 U	0.82 U	NS	NS	1.0 U	0.87	NS	1.0 U	1.0 U	1.0 U	NS	1.0 U	--	--	--
	MW-14BR	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.82 U	--	--	--	1.0 U	--	--	--	--
	MW-21	--	--	1.0 U	1.0 U	1.0 U	1.0 U	0.82 U	0.82 U	1.0 U	0.82 U	1.0 U	0.82 U	0.82 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U
	PZ-18	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.82 U	--	--	--	1.0 U	--	--	--	--
	PZ-26	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.82 U	--	--	--	1.0 U	--	--	--	--
Objective 3	MW-2	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.82 U	--	--	--	1.0 U	--	--	--	1.0 U
	MW-4	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.82 U [8.2 U]	--	--	--	1.0 U	--	--	--	1.0 U
	MW-10	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U [1.0 U]	--	--	--	0.82 U	--	--	--	1.0 U [1.0 U]	--	--	--	1.0 U
	PZ-7	1.0 U	--	1.0 U	--	1.0 U	--	0.82 U	--	1.0 U	--	1.0 U	--	0.82 U	--	1.0 U	--	1.0 U	--	--	--	--

See last page for notes.

Table D-5
Groundwater Monitoring Data - September 2011 through October 2016
2016 Annual Site Management Report
Former Lockheed Martin French Road Facility
Utica, New York

	Compound:	1,1-Dichloroethane																				
	NYSDEC TOGS Guidance Value:	5																				
	Sampling Date:	Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16
Objective 1	MW-1	**5.8 [5.5]**	3.8	4.2	**5.9**	**5.7**	2.1 [2.1]	2.4 [2.4]	1.1	2.1	2.1 [2.0]	0.64 J	1.4 [1.4]	2.8 [3.2]	0.99 J [0.94 J]	0.78 J [0.84 J]	1.4	1.3	2.3 [2.3]	2.7	3.0	3.3 [3.5]
	MW-3	**6.8**	4.4	3.6	4.3 [4.1]	**5.4**	3	2.9	1.8 [2.0]	4.2 [4.4]	2.7	0.45 J [1.0 U]	3.8	4.0	2.6	1.3	2.8 [2.8]	2.8	2.6	1.7 [1.6]	2.8	3.1
	MW-18	--	--	**20 D**	**37**	**18**	**40**	**46**	**42**	**43**	**36**	**36**	**31**	**37**	**37**	**41**	**22 J**	**13 J**	**17 J**	20 U	**13 J**	**18 NJ**
	MW-20	--	--	7.6 U	**7.9**	0.41 J	1.0 U	0.38 U	0.7	1.0 UJ	0.76 U	2.0 U	1.2	0.65	0.70 J	1.0 U	1.0	5.0 U	5.0 U	5.0 U	0.81 J [0.85 J]	5.0 U
	PZ-5	1.0 U	1.5 U	4.0 U	NS	4.0 U	1.0 U	0.38 U	0.38 U	2.0 U	0.76 U	NS	0.76 U	1.9 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
	PZ-6	1.0 U	--	1.0 U	--	1.0 U	--	0.38 U	--	1.0 U	--	1.0 U	--	0.38 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U
	PZ-8	4.8	**5.4**	NS	NS	4.2 J	4	3.4	3.4	NS	NS	3.3 J	2.8	NS	1.4	3.7	3.8 J	NS	5.0 U	1.9 J	NS	NS
	PZ-11R	1.0 U	0.38 U	1.0 U	1.0 U	1.0 U	1.0 U	0.38 U	0.38 U	1.0 U	0.38 U	1.0 U	0.38 U	0.38 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-13R	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.38 U	0.38 U	1.0 U	0.38 U	1.0 U	0.38 U	0.38 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	A1-PZ-2	2.1	0.48 J	1.1	1.3	0.49 J	1.0 U	0.38 U	0.38 U	1.0 U	0.38 U	1.0 U	0.38 U	0.38 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
	A2-PZ-1	**1900 D**	**2800**	**1900 [2300 D]**	**1100**	**1300**	**990**	**1200**	**1100**	**1200**	**1300**	**790**	**2200**	**1600**	**890**	**350**	**860**	**370**	**730**	**990**	**600**	**600**
	A2-PZ-2	--	--	**12**	10 U	10 U	**6**	**7.2**	**6.6**	3.9 J	3.1	2.3 J	3.8	1.9	**5.4 J**	4.6 J	**5.1**	5.0 U	**7.4**	20 U	**8.3 J**	3.4 NJ
Objective 2	MW-5	0.69 J	--	1.0 U	--	1.0 U	--	0.38 U	--	1.0 UJ	--	1.0 U	--	0.38 U	--	1.0 U	--	1.0 U	--	--	--	--
	MW-13S	2.4	NS	NS	NS	NS	1.1	1.4	2	NS	NS	1.1	2.6	NS	0.89 J	0.96 J	1.3	NS	0.96 J	--	--	--
	MW-14BR	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.38 U	--	--	--	1.0 U	--	--	--	--
	MW-21	--	--	1.0 U	1.0 U	1.0 U	1.0 U	0.38 U	0.38 U	1.0 U	0.38 U	1.0 U	0.38 U	0.38 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U
	PZ-18	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.38 U	--	--	--	1.0 U	--	--	--	--
	PZ-26	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.38 U	--	--	--	1.0 U	--	--	--	--
Objective 3	MW-2	**5.9**	--	--	--	4.9	--	--	--	4.7	--	--	--	4.3	--	--	--	4.3	--	--	--	3.9
	MW-4	0.70 J	--	--	--	1.0	--	--	--	0.78 J	--	--	--	0.68 [3.8 U]	--	--	--	0.74 J	--	--	--	0.88 NJ
	MW-10	2.6	--	--	--	3.5	--	--	--	2.9 [3.0]	--	--	--	2.3	--	--	--	2.8 [2.8]	--	--	--	3.0
	PZ-7	0.83 J	--	0.69 J	--	0.58 J	--	0.57	--	0.45 J	--	1.0 U	--	0.39	--	0.38 J	--	0.43 J	--	--	--	--

See last page for notes.

Table D-5
Groundwater Monitoring Data - September 2011 through October 2016
2016 Annual Site Management Report
Former Lockheed Martin French Road Facility
Utica, New York

	Compound:	**1,2-Dichloroethane**																				
	NYSDEC TOGS Guidance Value:	**0.6**																				
	Sampling Date:	Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16
Objective 1	MW-1	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]
	MW-3	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U
	MW-18	--	--	1.0 U	1.0 U	5.0 U	1.0 U	5.0 U	20 U	20 U	10 U	20 U	20 U	20 U	1.0 U	1.0 U	40 U	20 U	20 U	20 U	20 U	20 U
	MW-20	--	--	15 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	1.0 U [1.0 U]	5.0 U
	PZ-5	1.0 U	0.76 U	4.0 U	NS	4.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	NS	2.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
	PZ-6	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U
	PZ-8	1.0 U	5.0 U	NS	NS	5.0 U	1.0 U	5.0 U	5.0 U	NS	NS	5.0 U	5.0 U	NS	1.0 U	1.0 U	5.0 U	NS	5.0 U	5.0 U	NS	NS
	PZ-11R	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-13R	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	A1-PZ-2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	A2-PZ-1	**5**	250 U	250 U [1.0 U]	250 U	250 U	1.0 U	250 U	250 U	250 U	250 U	250 U	250 U	500 U	**1.2**	0.39 J	**1.2**	1.0 U	100 U	200 U	**0.95 J**	**0.96 NJ**
	A2-PZ-2	--	--	1.0 U	10 U	10 U	1.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U	2.0 U	10 U	10 U	1.0 U	5.0 U	5.0 U	20 U	20 U	8.0 U
Objective 2	MW-5	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 UJ	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--
	MW-13S	1.0 U	NS	NS	NS	NS	1.0 U	1.0 U	1.0 U	NS	NS	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	NS	1.0 U	--	--	--
	MW-14BR	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	--
	MW-21	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U
	PZ-18	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	--
	PZ-26	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	--
Objective 3	MW-2	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U
	MW-4	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U [10 U]	--	--	--	1.0 U	--	--	--	1.0 U
	MW-10	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U [1.0 U]	--	--	--	1.0 U	--	--	--	1.0 U [1.0 U]	--	--	--	1.0 U
	PZ-7	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--

See last page for notes.

Table D-5
Groundwater Monitoring Data - September 2011 through October 2016
2016 Annual Site Management Report
Former Lockheed Martin French Road Facility
Utica, New York

	Compound:	**1,1-Dichloroethene**																				
	NYSDEC TOGS Guidance Value:	**5**																				
	Sampling Date:	Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16
Objective 1	MW-1	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 UT	1.0 U	1.0 U [1.0 U]	0.29 J	1.0 U	1.0 U [1.0 U]
	MW-3	0.57 J	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U [1.0 U]	1.0 U	0.32 J	1.0 U	1.0 UF1	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U
	MW-18	--	--	1.0 U	1.3	5.0 U	2.2	3.7 J	20 U	20 U	10 U	20 U	20 U	20 U	2.7	3.6	40 U	20 U	20 U	20 U	20 U	20 UJ
	MW-20	--	--	5.8 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	1.0 U [1.0 U]	5.0 UJ
	PZ-5	1.0 U	2.0 U	4.0 U	NS	4.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	NS	2.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
	PZ-6	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U
	PZ-8	1.0 U	5.0 U	NS	NS	5.0 U	1.0 U	5.0 U	5.0 U	NS	NS	5.0 U	5.0 U	NS	1.0 U	0.39 J	5.0 U	NS	5.0 U	5.0 U	NS	NS
	PZ-11R	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
	PZ-13R	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
	A1-PZ-2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	A2-PZ-1	**45**	250 U	250 U **[23]**	250 U	250 U	1.0 U	250 U	250 U	250 U	250 U	250 U	250 U	500 U	**24**	**10**	**18**	**10 J**	100 U	200 U	**15**	**13 J**
	A2-PZ-2	--	--	1.5	10 U	10 U	1.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U	2.0 U	10 U	10 U	0.76 J	5.0 U	5.0 U	20 U	20 U	8.0 U
Objective 2	MW-5	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 UJ	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--
	MW-13S	1.0 U	NS	NS	NS	NS	1.0 U	1.0 U	1.0 U	NS	NS	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	NS	1.0 U	--	--	--
	MW-14BR	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	--
	MW-21	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 UJ
	PZ-18	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	--
	PZ-26	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	--
Objective 3	MW-2	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U
	MW-4	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U [10 U]	--	--	--	1.0 U	--	--	--	1.0 U
	MW-10	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U [1.0 U]	--	--	--	1.0 U	--	--	--	1.0 U [1.0 U]	--	--	--	1.0 UJ
	PZ-7	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--

See last page for notes.

Table D-5
Groundwater Monitoring Data - September 2011 through October 2016
2016 Annual Site Management Report
Former Lockheed Martin French Road Facility
Utica, New York

	Compound:	**1,1,2,Trichloroethane**																				
	NYSDEC TOGS Guidance Value:	**1**																				
	Sampling Date:	Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16
Objective 1	MW-1	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]
	MW-3	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 UF1	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U
	MW-18	--	--	1.0 U	1.0 U	5.0 U	1.0 U	5.0 U	20 U	20 U	10 U	20 U	20 U	20 U	1.0 U	1.0 U	40 U	20 U	20 U	20 U	20 U	20 U
	MW-20	--	--	4.6 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	1.0 U [1.0 U]	5.0 U
	PZ-5	1.0 U	2.0 U	4.0 U	NS	4.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	NS	2.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
	PZ-6	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U
	PZ-8	1.0 U	5.0 U	NS	NS	5.0 U	1.0 U	5.0 U	5.0 U	NS	NS	5.0 U	5.0 U	NS	1.0 U	1.0 U	5.0 U	NS	5.0 U	5.0 U	NS	NS
	PZ-11R	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-13R	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	A1-PZ-2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	A2-PZ-1	**3**	250 U	250 U **[1.7]**	250 U	250 U	1.0 U	250 U	250 U	250 U	250 U	250 U	250 U	500 U	0.28 J	1.0 U	1.0 U	1.0 U	100 U	200 U	1.0 U	1.0 U
	A2-PZ-2	--	--	1.0 U	10 U	10 U	1.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U	2.0 U	**15**	10 U	1.0 U	5.0 U	5.0 U	20 U	20 U	8.0 U
Objective 2	MW-5	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 UJ	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--
	MW-13S	1.0 U	NS	NS	NS	NS	1.0 U	1.0 U	1.0 U	NS	NS	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	NS	1.0 U	--	--	--
	MW-14BR	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	--
	MW-21	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U
	PZ-18	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	--
	PZ-26	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	--
Objective 3	MW-2	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U
	MW-4	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U [10 U]	--	--	--	1.0 U	--	--	--	1.0 U
	MW-10	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U [1.0 U]	--	--	--	1.0 U	--	--	--	1.0 U [1.0 U]	--	--	--	1.0 U
	PZ-7	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--

See last page for notes.

Table D-5
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	Compound:	**1,1,2-trichloro-1,2,2-trifluoroethane (Freon 113)**																				
	NYSDEC TOGS Guidance Value:	**5**																				
	Sampling Date:	Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16
Objective 1	MW-1	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 UJ	1.0 U [1.0 U]	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]
	MW-3	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 UJ [1.0 U]	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U
	MW-18	--	--	1.2	1.0 U	5.0 U	1.0 U	5.0 U	20 U	20 UJ	10 U	20 U	20 U	20 U	2.4	3.4	40 U	20 U	20 U	20 U	20 U	20 UJ
	MW-20	--	--	6.2 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	1.0 U [1.0 U]	5.0 UJ
	PZ-5	1.0 U	2.0 U	4.0 U	NS	4.0 U	1.0 U	1.0 U	1.0 U	2.0 UJ	2.0 U	NS	2.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
	PZ-6	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U		1.0 UJ	--	1.0 U	--	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U
	PZ-8	1.0 U	5.0 U	NS	NS	5.0 U	1.0 U	5.0 U	5.0 U	NS	NS	5.0 U	5.0 U	NS	1.0 U	1.0 U	5.0 U	NS	5.0 U	5.0 U	NS	NS
	PZ-11R	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
	PZ-13R	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
	A1-PZ-2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
	A2-PZ-1	**1600 EJ**	**1900**	**1300 [1100 D]**	**940**	250 U	**680**	**400**	**850**	**550 J**	**660**	**400**	**1200**	**730 J**	**470**	**180**	**520**	**150**	**200**	**260**	**230 J**	**180 NJ**
	A2-PZ-2	--	--	1.0 U	10 U	10 U	1.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U	2.0 UJ	10 U	10 U	1.0 U	5.0 U	5.0 U	20 U	20 U	8.0 U
Objective 2	MW-5	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 UJ	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--
	MW-13S	1.0 U	NS	NS	NS	NS	1.0 U	1.0 U	1.0 U	NS	NS	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	NS	1.0 U	--	--	--
	MW-14BR	1.0 U	--	--	--	1.0 U	--	--	--	1.0 UJ	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	--
	MW-21	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 UJ
	PZ-18	1.0 U	--	--	--	1.0 U	--	--	--	1.0 UJ	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	--
	PZ-26	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	--
Objective 3	MW-2	1.0 U	--	--	--	1.0 U	--	--	--	1.0 UJ	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U
	MW-4	1.0 U	--	--	--	1.0 U	--	--	--	1.0 UJ	--	--	--	1.0 U [10 U]	--	--	--	1.0 U	--	--	--	1.0 U
	MW-10	1.0 U	--	--	--	1.0 U	--	--	--	1.0 UJ [1.0 U]	--	--	--	1.0 U	--	--	--	1.0 U [1.0 U]	--	--	--	1.0 UJ
	PZ-7	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 UJ	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--

See last page for notes.

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	Compound:	Dichloro-difluoromethane (Freon 12)																				
	NYSDEC TOGS Guidance Value:	5																				
	Sampling Date:	Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16
Objective 1	MW-1	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U* [1.0 U*]	1.0 UT	1.0 UJ	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]
	MW-3	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 UJ	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U
	MW-18	--	--	1.0 U	1.0 U	5.0 UJ	0.96 J	5.0 U	20 U	20 U	10 U	20 U	20 U	20 U	1.0 U	1.0 U*	40 U	20 UJ	20 U	20 U	20 U	20 U
	MW-20	--	--	14 UJ	5.0 J	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	1.0 U [1.0 U]	5.0 U
	PZ-5	1.0 U	4.0 U	4.0 U	NS	4.0 UJ	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	NS	2.0 U	5.0 U	1.0 U	5.0 U*	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
	PZ-6	1.0 U	--	1.0 U	--	1.0 UJ	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	1.0 U	2.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U
	PZ-8	1.0 U	5.0 U	NS	NS	5.0 UJ	1.0 U	5.0 U	5.0 U	NS	NS	5.0 U	5.0 U	NS	1.0 U	1.0 U*	5.0 U	NS	5.0 U	5.0 U	NS	NS
	PZ-11R	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-13R	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	A1-PZ-2	1.0 U	1.0 U	1.0 J	1.0 J	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U*	1.0 U	1.0 UJ	1.0 U	1.0 UT	1.0 U	1.0 U
	A2-PZ-1	**960 E**	**1200**	**830 [740 D]**	250 U	250 UJ	1.0 U	250 U	250 U	**560 J**	**440**	**240 J**	**300**	500 UJ	1.0 U	**160**	**460**	1.0 UJ	100 U	200 UT	1.0 U	**320 J**
	A2-PZ-2	--	--	1.0 U	10 U	10 UJ	1.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U	2.0 UJ	10 U	10 U	1.0 U	5.0 U	5.0 U	20 UT	20 U	8.0 U
Objective 2	MW-5	1.0 U	--	1.0 U	--	1.0 UJ	--	1.0 U	--	1.0 UJ	--	1.0 U	--	1.0 U	--	1.0 U*	--	1.0 U	--	--	--	--
	MW-13S	1.0 U	NS	NS	NS	NS	1.0 U	1.0 U	1.0 U	NS	NS	1.0 U	1.0 U	NS	1.0 U	1.0 U*	1.0 U	NS	1.0 U	--	--	--
	MW-14BR	1.0 U	--	--	--	1.0 UJ	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	--
	MW-21	--	--	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U
	PZ-18	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 UJ	--	--	--	--
	PZ-26	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 UJ	--	--	--	--
Objective 3	MW-2	1.0 U	--	--	--	1.0 UJ	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U
	MW-4	1.0 U	--	--	--	1.0 UJ	--	--	--	1.0 U	--	--	--	1.0 U [10 U]	--	--	--	1.0 U	--	--	--	1.0 U
	MW-10	1.0 U	--	--	--	1.0 UJ	--	--	--	1.0 U [1.0 U]	--	--	--	1.0 U	--	--	--	1.0 U [1.0 UJ]	--	--	--	1.0 U
	PZ-7	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U*	--	1.0 U	--	--	--	--

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	Compound:	**Ethylbenzene**																				
	NYSDEC TOGS Guidance Value:	**5**																				
	Sampling Date:	Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16
Objective 1	MW-1	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.74 U [0.74 U]	0.74 U	1.0 U	0.74 U [0.74 U]	1.0 U	0.74 U [0.74 U]	0.74 U [0.74 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]
	MW-3	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	0.74 U	0.74 U [0.74 U]	1.0 U [1.0 U]	0.74 U	1.0 U [1.0 U]	0.74 U	0.74 U	1.0 U	1.0 UF1	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U
	MW-18	--	--	0.91 J	1.4	5.0 U	2.4	3.7 U	15 U	20 U	7.4 U	20 U	15 U	15 U	1.0 U	0.88 J	40 U	20 U	20 U	20 U	20 U	20 U
	MW-20	--	--	15 U	5.0 U	1.0 U	1.0 U	0.74 U	0.74 U	1.0 UJ	1.5 U	2.0 U	1.5 U	0.74 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	1.0 U [1.0 U]	5.0 U
	PZ-5	1.0 U	4.0 U	4.0 U	NS	3.8 J	1.7	4.5	4.3	2.0 U	1.5 U	NS	1.5 U	3.7 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
	PZ-6	1.0 U	--	1.0 U	--	1.0 U	--	0.74 U	--	1.0 U	--	1.0 U	--	0.74 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U
	PZ-8	1.0 U	3.7 U	NS	NS	5.0 U	1.0 U	3.7 U	3.7 U	NS	NS	5.0 U	3.7 U	NS	1.0 U	1.0 U	5.0 U	NS	5.0 U	5.0 U	NS	NS
	PZ-11R	1.0 U	0.74 U	1.0 U	1.0 U	1.0 U	1.0 U	0.74 U	0.74 U	1.0 U	0.74 U	1.0 U	0.74 U	0.74 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-13R	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.74 U	0.74 U	1.0 U	0.74 U	1.0 U	0.74 U	0.74 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	A1-PZ-2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.74 U	0.74 U	1.0 U	0.74 U	1.0 U	0.74 U	0.74 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	A2-PZ-1	1.0 U	250 U	250 U [1.0 U]	250 U	250 U	1.0 U	190 U	190 U	250 U	190 U	250 U	190 U	370 U	1.0 U	1.0 U	1.0 U	1.0 U	100 U	200 U	1.0 U	1.0 U
	A2-PZ-2	--	--	**9.0**	10 U	10 U	1.0 U	3.7 U	7.4 U	10 U	3.7 U	5.0 U	3.7 U	1.5 U	10 U	10 U	2.0	5.0 U	5.0 U	20 U	20 U	8.0 U
Objective 2	MW-5	1.0 U	--	1.0 U	--	1.0 U	--	0.74 U	--	1.0 UJ	--	1.0 U	--	0.74 U	--	1.0 U	--	1.0 U	--	--	--	--
	MW-13S	1.0 U	NS	NS	NS	NS	1.0 U	0.74 U	0.74 U	NS	NS	1.0 U	0.74 U	NS	1.0 U	1.0 U	1.0 U	NS	1.0 U	--	--	--
	MW-14BR	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.74 U	--	--	--	1.0 U	--	--	--	--
	MW-21	--	--	1.0 U	1.0 U	1.0 U	1.0 U	0.74 U	0.74 U	1.0 U	0.74 U	1.0 U	0.74 U	0.74 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U
	PZ-18	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.74 U	--	--	--	1.0 U	--	--	--	--
	PZ-26	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.74 U	--	--	--	1.0 U	--	--	--	--
Objective 3	MW-2	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.74 U	--	--	--	1.0 U	--	--	--	1.0 U
	MW-4	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.74 U [7.4 U]	--	--	--	1.0 U	--	--	--	1.0 U
	MW-10	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U [1.0 U]	--	--	--	0.74 U	--	--	--	1.0 U [1.0 U]	--	--	--	1.0 U
	PZ-7	1.0 U	--	1.0 U	--	1.0 U	--	0.74 U	--	1.0 U	--	1.0 U	--	0.74 U	--	1.0 U	--	1.0 U	--	--	--	--

See last page for notes.

Table D-5
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Former Lockheed Martin French Road Facility
Utica, New York

	Compound:	**Toluene**																				
	NYSDEC TOGS Guidance Value:	**5**																				
	Sampling Date:	Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16
Objective 1	MW-1	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.51 U [0.51 U]	0.51 U	1.0 U	0.51 U [0.51 U]	1.0 U	0.51 U [0.51 U]	0.51 U [0.51 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]
	MW-3	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	0.51 U	0.51 U [0.51 U]	1.0 U [1.0 U]	0.51 U	1.0 U [1.0 U]	0.51 U	0.51 U	1.0 U	1.0 UF1	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U
	MW-18	--	--	1.9	1.4	5.0 U	1.7	2.6 U	10 U	20 U	5.1 U	20 U	10 U	10 U	0.94 J	1.1	40 U	20 U	20 U	20 U	20 U	20 U
	MW-20	--	--	10 U	5.0 U	1.0 U	1.0 U	0.51 U	0.51 U	1.0 UJ	1.0 U	2.0 U	1.0 U	0.51 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	1.0 U [1.0 U]	5.0 U
	PZ-5	1.0 U	2.0 U	4.0 U	NS	4.0 U	1.0 U	0.51 U	0.51 U	2.0 U	1.0 U	NS	1.0 U	2.6 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
	PZ-6	1.0 U	--	1.0 U	--	1.0 U	--	0.51 U	--	1.0 U	--	1.0 U	--	0.51 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U
	PZ-8	1.0 U	2.6 U	NS	NS	5.0 U	1.0 U	2.6 U	2.6 U	NS	NS	5.0 U	2.6 U	NS	1.0 U	1.0 U	5.0 U	NS	5.0 U	5.0 U	NS	NS
	PZ-11R	1.0 U	0.51 U	1.0 U	1.0 U	1.0 U	1.0 U	0.51 U	0.51 U	1.0 U	0.51 U	1.0 U	0.51 U	0.51 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-13R	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.51 U	0.51 U	1.0 U	0.51 U	1.0 U	0.51 U	0.51 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	A1-PZ-2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.51 U	0.51 U	1.0 U	0.51 U	1.0 U	0.51 U	0.51 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	A2-PZ-1	**5**	250 U	250 U [4.6]	250 U	250 U	1.0 U	130 U	130 U	250 U	130 U	250 U	130 U	260 U	3.6	1.7	5.0	1.8	100 U	200 U	3.3	2.7
	A2-PZ-2	--	--	1.0 U	10 U	10 U	1.0 U	2.6 U	5.1 U	10 U	2.6 U	5.0 U	2.6 U	1.0 U	10 U	10 U	1.0 U	5.0 U	5.0 U	20 U	20 U	8.0 U
Objective 2	MW-5	1.0 U	--	1.0 U	--	1.0 U	--	0.51 U	--	1.0 UJ	--	1.0 U	--	0.51 U	--	1.0 U	--	1.0 U	--	--	--	--
	MW-13S	1.0 U	NS	NS	NS	NS	1.0 U	0.51 U	0.51 U	NS	NS	1.0 U	0.51 U	NS	1.0 U	1.0 U	1.0 U	NS	1.0 U	--	--	--
	MW-14BR	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.51 U	--	--	--	1.0 U	--	--	--	--
	MW-21	--	--	1.0 U	1.0 U	1.0 U	1.0 U	0.51 U	0.51 U	1.0 U	0.51 U	1.0 U	0.51 U	0.51 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U
	PZ-18	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.51 U	--	--	--	1.0 U	--	--	--	--
	PZ-26	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.51 U	--	--	--	1.0 U	--	--	--	--
Objective 3	MW-2	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.51 U	--	--	--	1.0 U	--	--	--	1.0 U
	MW-4	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.51 U [5.1 U]	--	--	--	1.0 U	--	--	--	1.0 U
	MW-10	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U [1.0 U]	--	--	--	0.51 U	--	--	--	1.0 U [1.0 U]	--	--	--	1.0 U
	PZ-7	1.0 U	--	1.0 U	--	1.0 U	--	0.51 U	--	1.0 U	--	1.0 U	--	0.51 U	--	1.0 U	--	1.0 U	--	--	--	--

See last page for notes.

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Utica, New York

	Compound:	**Xylenes, total**																				
	NYSDEC TOGS Guidance Value:	**5**																				
	Sampling Date:	Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16
Objective 1	MW-1	2.0 U [2.0U]	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	2.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	2.0 U [2.0 U]	2.0 U [2.0 U]	2.0 U	2.0 U	2.0 U [2.0 U]	2.0 U	2.0 U	2.0 U [2.0 U]
	MW-3	2.0 U	2.0 U	2.0 U	2.0 U [2.0U]	2.0 U	2.0 U	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	2.0 U [2.0 U]	1.0 U	1.0 U	2.0 U	2.0 UF1	2.0 U [2.0 U]	2.0 U	2.0 U	2.0 U [2.0 U]	2.0 U	2.0 U
	MW-18	--	--	1.3 J	1.0 J	10 U	2.0 U	5.0 U	20 U	20 U	10 U	40 U	20 U	20 U	2.0 U	2.0 U	80 U	40 U	40 U	40 U	40 U	40 U
	MW-20	--	--	13 U	10 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	4.0 U	2.0 U	1.0 U	2.0 U	2.0 U	2.0 U	10 U	10 U	10 U	2.0 U [2.0 U]	10 U
	PZ-5	2.0 U	4.0 U	8.0 U	NS	**14**	**5.7**	**18**	**13**	2.0 U	2.0 U	NS	2.0 U	5.0 U	2.0 U	10 U	10 U	10 U	10 U	10 U	2.0 U	2.0 U
	PZ-6	2.0 U	--	1.0 U	--	2.0 U	--	0.74 J	--	1.0 U	--	2.0 U	--	1.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	--	2.0 U
	PZ-8	2.0 U	5.0 U	NS	NS	10 U	2.0 U	5.0 U	5.0 U	NS	NS	10 U	5.0 U	NS	2.0 U	2.0 U	10 U	NS	10 U	10 U	NS	NS
	PZ-11R	2.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	PZ-13R	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	A1-PZ-2	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	A2-PZ-1	2.0 U	500 U	500 U [2.0U]	500 U	500 U	2.0 U	250 U	250 U	250 U	250 U	500 U	250 U	250 U	2.0 U	2.0 U	2.0 U	2.0 U	200 U	400 U	2.0 U	2.0 U
	A2-PZ-2	--	--	2.0 U	20 U	20 U	2.0 U	5.0 U	10 U	10 U	5.0 U	10 U	5.0 U	2.0 U	20 U	20 U	2.0 U	10 U	10 U	40 U	40 U	16 U
Objective 2	MW-5	2.0 U	--	1.0 U	--	2.0 U	--	1.0 U	--	1.0 UJ	--	2.0 U	--	1.0 U	--	2.0 U	--	2.0 U	--	--	--	--
	MW-13S	2.0 U	NS	NS	NS	NS	2.0 U	1.0 U	1.0 U	NS	NS	2.0 U	1.0 U	NS	2.0 U	2.0 U	2.0 U	NS	2.0 U	--	--	--
	MW-14BR	2.0 U	--	--	--	2.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	2.0 U	--	--	--	--
	MW-21	--	--	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	4.0 U	2.0 U	2.0 U
	PZ-18	2.0 U	--	--	--	2.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	2.0 U	--	--	--	--
	PZ-26	2.0 U	--	--	--	2.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	2.0 U	--	--	--	--
Objective 3	MW-2	2.0 U	--	--	--	2.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	2.0 U	--	--	--	2.0 U
	MW-4	2.0 U	--	--	--	2.0 U	--	--	--	1.0 U	--	--	--	1.0 U [10 U]	--	--	--	2.0 U	--	--	--	2.0 U
	MW-10	2.0 U	--	--	--	2.0 U	--	--	--	1.0 U [1.0 U]	--	--	--	1.0 U	--	--	--	2.0 U [2.0 U]	--	--	--	2.0 U
	PZ-7	2.0 U	--	1.0 U	--	2.0 U	--	1.0 U	--	1.0 U	--	2.0 U	--	1.0 U	--	2.0 U	--	2.0 U	--	--	--	--

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	Compound:	**Acetone**																				
	NYSDEC TOGS Guidance Value:	**50**																				
	Sampling Date:	Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16
Objective 1	MW-1	10 U [10U]	10 U	10 U	8.8 J	10 U	10 U	10 U [10 U]	10 U	10 U	10 U [10 U]	10 U	10 U [10 U]	10 U [10 U]	10 U [10 U]	10 U [10 U]	10 U	10 U	10 U [10 U]	10 U	10 U	10 U [10 U]
	MW-3	10 U	10 U	10 U	1.0 U [1.0 U]	10 U	10 U	10 U	10 U [10 U]	10 U [10 U]	10 U	10 U [10 U]	10 U	10 U	10 U	10 U	10 U [10 U]	10 U	10 U	10 U [10 U]	3.8 J	10 U
	MW-18	--	--	10 U	9.1 J	50 U	10 U	50 U	200 U	200 U	100 U	200 U	200 U	200 U	10 U	10 U	400 U	200 U	200 U	200 U	200 U	200 UJ
	MW-20	--	--	200	**400**	**78**	10 U	4.5 J	8.7 J	10 UJ	20 U	20 U	20 U	10 U	10 U	10 U	4.7 J	50 U	50 U	50 U	5.2 J [3.1 J]	50 UJ
	PZ-5	3.1 J	16	40 U	NS	40 U	10 U	6.1 J	3.1 J	20 U	6.6 J	NS	20 U	50 U	10 U	50 U	50 U	50 U	50 U	50 U	10 U	10 U
	PZ-6	10 U	--	3.8 J	--	10 U	--	10 U	--	10 U	--	10 U	--	10 U	10 U	20 U	10 U	10 U	5.5 J	3.4 J	--	10 U
	PZ-8	10 U	50 U	NS	NS	50 U	10 U	50 U	50 U	NS	NS	50 U	50 U	NS	3.0	3.8 J	50 U	NS	50 U	50 U	NS	NS
	PZ-11R	10 U	10 U	10 U	9.4 J	10 U	10 U	3.1 J	10 U	17	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
	PZ-13R	10 U	10 U	10 U	9.3 J	10 U	10 U	3.2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
	A1-PZ-2	6.6 J	10 U	10 UB	16 UB	10 U	10 U	10 U	9.2 J	10 U	10 U	10 U	4.9 J	44	3.8	3.7 J	4.5 J	3.0 J	10 U	4.4 J	10 U	10 UJ
	A2-PZ-1	9.5 J	2500 U	2500 U [14]	2500 U	2500 U	10 U	2500 U	2500 U	2500 U	2500 U	2500 U	2500 U	5000 U	10 U	10 U	6.9 J	10 U	1000 U	2000 U	3.9 J	10 UJ
	A2-PZ-2	--	--	10 U	100 U	100 U	10 U	50 U	100 U	100 U	50 U	50 U	50 U	20 U	100 U	100 U	10 U	50 U	50 U	200 U	200 U	80 UJ
Objective 2	MW-5	10 U	--	10 U	--	10 U	--	6.8 J	--	4.5 J	--	10 U	--	10 U	--	10 U	--	10 U	--	--	--	--
	MW-13S	10 U	NS	NS	NS	NS	10 U	10 U	10 U	NS	NS	10 U	10 U	NS	10 U	10 U	10 U	NS	10 U	--	--	--
	MW-14BR	10 U	--	--	--	16	--	--	--	19	--	--	--	18	--	--	--	15	--	--	--	--
	MW-21	--	--	10 U	8.8 J	10 U	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	24	10 U	10 U	20 U	20 U	10 U	10 UJ
	PZ-18	10 U	--	--	--	10 U	--	--	--	10 U	--	--	--	10 U	--	--	--	10 U	--	--	--	--
	PZ-26	10 U	--	--	--	10 U	--	--	--	10 U	--	--	--	10 U	--	--	--	10 U	--	--	--	--
Objective 3	MW-2	10 U	--	--	--	10 U	--	--	--	10 U	--	--	--	10 U	--	--	--	10 U	--	--	--	10 U
	MW-4	10 U	--	--	--	10 U	--	--	--	10 U	--	--	--	10 U [100 U]	--	--	--	10 U	--	--	--	10 U
	MW-10	10 U	--	--	--	10 U	--	--	--	10 U [10 U]	--	--	--	10 U	--	--	--	10 U [10 U]	--	--	--	10 UJ
	PZ-7	10 U	--	4.2 J	--	10 U	--	10 U	--	10 U	--	5.5 J	--	10 U	--	7.3 J	--	10 U	--	--	--	--

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	Compound:	**Methylene Chloride**																				
	NYSDEC TOGS Guidance Value:	**5**																				
	Sampling Date:	Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16
Objective 1	MW-1	10 U [10 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U [10 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]
	MW-3	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U
	MW-18	--	--	1.0 U	1.0 U	5.0 U	1.0 U	5.0 U	20 U	20 U	10 U	20 U	20 U	20 U	1.0 U	1.0 U	**20 J**	20 U	20 U	20 U	20 U	20 U
	MW-20	--	--	8.8 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	1.0 U [1.0 U]	5.0 U
	PZ-5	1.0 U	4.0 U	4.0 U	NS	4.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	NS	2.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U
	PZ-6	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	1.0 U	2.0 U	0.56 J	1.0 U	1.0 U	1.0 U	--	1.0 U
	PZ-8	1.0 U	5.0 U	NS	NS	5.0 U	1.0 U	5.0 U	5.0 U	NS	NS	5.0 U	5.0 U	NS	1.0 U	1.0 U	3.1 J	NS	5.0 U	5.0 U	NS	NS
	PZ-11R	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-13R	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	A1-PZ-2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	A2-PZ-1	1.0 U	250 U	250 U [14]	250 U	250 U	110 JB	250 U	250 U	250 U	250 U	250 U	250 U	500 U	1.0 U	0.85 J	1.1	1.0 U	100 U	200 U	0.50 J	1.0 U
	A2-PZ-2	--	--	1.0 U	10 U	10 U	1.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U	2.0 U	10 U	10 U	1.0 U	5.0 U	5.0 U	20 U	20 U	8.0 U
Objective 2	MW-5	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 UJ	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--
	MW-13S	1.0 U	NS	NS	NS	NS	1.0 U	1.0 U	1.0 U	NS	NS	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	NS	1.0 U	--	--	--
	MW-14BR	0.57 J	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	--
	MW-21	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U
	PZ-18	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	--
	PZ-26	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	--
Objective 3	MW-2	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U
	MW-4	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U [10 U]	--	--	--	1.0 U	--	--	--	1.0 U
	MW-10	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U [1.0 U]	--	--	--	1.0 U	--	--	--	1.0 U [1.0 U]	--	--	--	1.0 U
	PZ-7	1.0 U	--	0.55 J	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--

Notes:
1. B = The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspected.
2. D = Diluted sample result within calibration range
3. E = Analyte exceeded calibration range.
4. F1 or T or * = MS and/or MSD Recovery or LCS or LCSD is outside acceptance limits.
5. ^ = ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
6. J = Indicates an estimated value.
7. NYSDEC TOGS = New York State Department of Environmental Conservation Technical and Operational Guidance Series
8. U = The compound was analyzed for but not detected. The associated value is the compound Reporting Limit.
9. "--" indicates not measured
10. "NS" indicates insufficient groundwater was available for sampling
11. "Green font" indicates sampled as part of the pilot test; the pilot test sampling was performed post-injection on 4/24/12 and 7/12/12.
12. **Bold** indicates concentration above NYSDEC TOGS Value
13. All units in micrograms per liter (µg/l)
14. [ ] = Field duplicate results
15. Potential exists that an air bubble in the PZ-6 sampling vial (collected July 2015) resulted in underestimated VOC concentrations (see Q3 2015 data summary).
16. NJ = The analysis indicates the presence of a compound that has been "tentatively identified"; the associated numerical value represents its approximate concentration.

Table D-6
Summary of Mann-Kendall Trend Analysis of Groundwater Analytical Data
2016 Annual Site Management Report
Former Lockheed Martin French Road Facility
Utica, New York

Monitoring Well Objective	Location ID[A]	Analyte	Cleanup Goal (µg/L)	Data Range							Mann-Kendall Analysis[B]		Sudden Increase Evaluation			
				Start Date	End Date	Min[B] (µg/L)	Max[B] (µg/L)	Historic Maximum[C] (µg/L)	Most recent result[D] (µg/L)	Comparison of the most recent data with Historic Maximum[D]	p Value	Data Trend[D]	Mean[B]	Std Dev[B]	Mean[B] +3xSTDV[B]	October 2016 Results
Objective 1	MW-1	cis-1,2-Dichloroethene	5	06/20/96	10/10/16	8.7	25	390	25	Less than	0.0028	Increasing Trend	15	6.4	35	No Sudden Increase
	MW-1	Tetrachloroethene	5	06/20/96	10/10/16	29	79	11000	33	Less than	0.1990	No Trend	49	20	107	No Sudden Increase
	MW-1	Trichloroethene	5	06/20/96	10/10/16	6.8	15	830	14	Less than	0.4770	No Trend	12	2.7	21	No Sudden Increase
	MW-3	cis-1,2-Dichloroethene	5	08/22/96	10/10/16	12	24	510	22	Less than	0.0890	No Trend	17	4.2	30	No Sudden Increase
	MW-3	Tetrachloroethene	5	08/22/96	10/10/16	3.3	25	73	3.3	Less than	0.2365	No Trend	15	7.7	38	No Sudden Increase
	MW-3	Trichloroethene	5	05/19/98	10/10/16	6.4	15	430	6.4	Less than	0.4770	No Trend	10.2	3.4	20	No Sudden Increase
	MW-3	Vinyl Chloride	2	08/22/96	10/10/16	1.3	3.7	94	2.0	Less than	0.4770	No Trend	2.6	1.0	5.5	No Sudden Increase
	MW-18	1,1-Dichloroethane	5	11/30/11	10/11/16	13	41	46	18 NJ	Less than	0.0890	No Trend	22	11	55	No Sudden Increase
	MW-18	cis-1,2-Dichloroethene	5	11/30/11	10/11/16	210	1900	1900	780	Less than	0.0540	No Trend	874	553	2533	No Sudden Increase
	MW-18	Tetrachloroethene	5	11/30/11	10/11/16	18	480	480	85	Less than	0.1990	No Trend	145	160	624	No Sudden Increase
	MW-18	Trichloroethene	5	11/30/11	10/11/16	110	510	510	120	Less than	0.3170	No Trend	244	163	732	No Sudden Increase
	MW-18	Vinyl Chloride	2	11/30/11	10/11/16	9.0	10	10	20 U	ND	0.1990	No Trend	18	8.2	43	No Sudden Increase
	MW-20	Vinyl Chloride	2	04/11/12	10/11/16	0.90	4.5	680	5.0 U	ND	0.0890	No Trend	3.3	1.5	7.8	No Sudden Increase
	PZ-5	cis-1,2-Dichloroethene	5	06/20/96	10/10/16	24	57	500	35	Less than	0.1135	No Trend	40	10	70	No Sudden Increase
	PZ-5	Tetrachloroethene	5	06/20/96	10/10/16	11	300	350	11	Less than	0.0425	Decreasing Trend	164	85	419	No Sudden Increase
	PZ-5	Trichloroethene	5	06/20/96	10/10/16	19	86	330	19	Less than	0.0715	No Trend	60	24	132	No Sudden Increase
	PZ-6	cis-1,2-Dichloroethene	5	02/09/95	10/10/16	5.8	22	97	22	Less than	0.3170	No Trend	15	6.6	34	No Sudden Increase
	PZ-6	Tetrachloroethene	5	02/09/95	10/10/16	4.0	85	350	7.0	Less than	0.1135	No Trend	44	35	149	No Sudden Increase
	PZ-6	Trichloroethene	5	02/09/95	10/10/16	5.8	42	140	19	Less than	0.1135	No Trend	22	14	64	No Sudden Increase
	PZ-8	cis-1,2-Dichloroethene	5	08/06/08	04/07/16	14	42	91	20	Less than	0.4770	No Trend	29	8.7	55	No Sudden Increase
	PZ-8	Tetrachloroethene	5	08/06/08	04/07/16	55	280	470	160	Less than	0.0540	No Trend	201	78	433	No Sudden Increase
	PZ-8	Trichloroethene	5	08/06/08	04/07/16	58	230	410	120	Less than	0.4060	No Trend	172	57	344	No Sudden Increase
	PZ-11R	Trichloroethene	5	09/29/11	10/11/16	2.0	7.2	9.0	7.2	Less than	0.1685	No Trend	4.4	1.8	9.9	No Sudden Increase
	PZ-13R	Trichloroethene	5	09/27/11	10/11/16	1.7	5.1	5.5	5.1	Less than	0.5480	No Trend	3.4	1.2	7.0	No Sudden Increase
	A1-PZ-2	Vinyl Chloride	2	06/28/10	10/11/16	0.90	5.5	27	1.0 U	ND	0.3170	No Trend	1.5	1.6	6.4	No Sudden Increase
	A2-PZ-1	1,1-Dichloroethane	5	06/25/10	10/11/16	350	990	2800	600	Less than	0.4770	No Trend	674	237	1384	No Sudden Increase
	A2-PZ-1	1,2-Dichloroethane	0.6	06/25/10	10/11/16	0.39	1.2	5.0	0.96 NJ	Less than	0.4770	No Trend	34	67	234	No Sudden Increase
	A2-PZ-1	1,1-Dichloroethene	5	06/25/10	10/11/16	10	24	45	13 J	Less than	0.4770	No Trend	45	61	227	No Sudden Increase
	A2-PZ-1	1,1,2-trichloro-1,2,2-trifluoroethane	5	06/25/10	10/11/16	150	520	1900	180 NJ	Less than	0.3170	No Trend	274	141	697	No Sudden Increase
	A2-PZ-1	cis-1,2-Dichloroethene	5	06/25/10	10/11/16	7100	20000	42000	12000 J	Less than	0.5480	No Trend	13938	4930	28728	No Sudden Increase
	A2-PZ-1	Dichlorodifluoromethane	5	06/25/10	10/11/16	0.90	460	1200	320 J	Less than	0.3170	No Trend	152	167	654	No Sudden Increase
	A2-PZ-1	trans 1,2-Dichloroethene	5	06/25/10	10/11/16	8.0	19	33	9.0	Less than	0.4770	No Trend	44	61	228	No Sudden Increase
	A2-PZ-1	Trichloroethene	5	06/25/10	10/11/16	420	1900	5500	530	Less than	0.4520	No Trend	770	485	2226	No Sudden Increase
	A2-PZ-1	Vinyl Chloride	2	06/25/10	10/11/16	460	1400	1800	710	Less than	0.4770	No Trend	766	309	1695	No Sudden Increase
	A2-PZ-2	1,1-Dichloroethane	5	06/25/10	10/11/16	3.4	8.3	12	3.4 NJ	Less than	0.4520	No Trend	7.1	4.7	21	No Sudden Increase
	A2-PZ-2	cis-1,2-Dichloroethene	5	06/25/10	10/11/16	61	160	290	82	Less than	0.4770	No Trend	115	32	213	No Sudden Increase
	A2-PZ-2	Tetrachloroethene	5	06/25/10	10/11/16	340	1100	2300	400	Less than	0.4060	No Trend	691	247	1432	No Sudden Increase
	A2-PZ-2	Trichloroethene	5	06/25/10	10/11/16	140	430	740	230	Less than	0.4770	No Trend	274	87	535	No Sudden Increase
	A2-PZ-2	Vinyl Chloride	2	06/25/10	10/11/16	4.4	6.4	14	8.0 U	ND	0.2740	No Trend	9.6	5.5	26	No Sudden Increase
Objective 2	MW-21	Vinyl Chloride	2	04/11/12	10/11/16	1.4	3.4	13	3.4	Less than	0.4060	No Trend	2.0	0.62	3.9	No Sudden Increase
Objective 3	MW-2	1,1-Dichloroethane	5	08/22/96	10/10/16	3.9	7	87	3.9	Less than	0.0006	Decreasing Trend	5.0	1.0	8.1	No Sudden Increase
	MW-2	cis-1,2-Dichloroethene	5	08/22/96	10/10/16	6.4	14	390	6.4	Less than	0.0715	No Trend	11	2.8	19	No Sudden Increase
	MW-2	Vinyl Chloride	2	08/22/96	10/10/16	12	38	78	12	Less than	0.0116	Decreasing Trend	25	11	57	No Sudden Increase
	MW-4	cis-1,2-Dichloroethene	5	08/22/96	10/10/16	3.3	7.1	7.4	5.0	Less than	0.3600	No Trend	4.7	1.1	8.0	No Sudden Increase
	MW-4	Vinyl Chloride	2	08/22/96	10/10/16	1.4	4.8	6.4	3.1	Less than	0.3600	No Trend	3.1	1.1	6.5	No Sudden Increase
	MW-10	1,1-Dichloroethane	5	06/20/96	10/11/16	2.0	6.9	280	3.0	Less than	0.4770	No Trend	3.3	1.5	7.9	No Sudden Increase
	MW-10	cis-1,2-Dichloroethene	5	06/20/96	10/11/16	25	53	1700	31	Less than	0.1380	No Trend	37	9.2	64	No Sudden Increase
	MW-10	Vinyl Chloride	2	06/20/96	10/11/16	16.5	38	320	23	Less than	0.0890	No Trend	25	8.4	50	No Sudden Increase

Notes:

[A] Locations were excluded if: more than half of the last eight rounds were non-detect or if there were no exceedances in the last eight rounds. Piezometer PZ-8 was not sampled during Q4 (October 2016) due to insufficient water column, and is not included in this table.

[B] Indicates a calculation based on the eight most recent rounds of data.

[C] Historical maximum provided is based on all available data (excluding the most recent round).

[D] For non-detect results, 90% of the reportling limit (RL) is used for calculations. However, the "greater than" distinction for the Historic Maximum comparison is only applied if the most recent result is above the reporting limit (i.e. a "non-detect" with higher reporting limit will not trigger a "greater than" result as the value is not representative of a detected contaminant concentration). Similarly, a statistically-significant increasing or decreasing trend is only shown if detections (not modified reporting limits) contribute to the trend's statistical significance (i.e. an "increasing trend" is not representative of groundwater conditions if the trend is caused by non-detect results with elevated reporting limits).

Abbreviations:

J	Indicates an estimated value.
ND	Indicates a non-detect result with an elevated reporting limit for the most recent sampling event that would cause mis-identification of new Historical Maxima and/or statistically-significant trends. See Note [D] above.
NJ	The analysis indicates the presence of a compound that has been "tentatively identified"; the associated numerical value represents its approximate concentration.
U	The compound was analyzed for but not detected. The associated value is the compound Reporting Limit.

DRAFT

Table D-7
Groundwater Sampling Field Parameters - September 2011 through October 2016
2016 Annual Site Management Report
Former Lockheed Martin French Road Facility
Utica, New York

	Well ID	pH (s.u.)																				
Sampling Date		Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16
Objective 1	MW-1	6.92	7.52	7.20	7.36	7.03	7.19	6.92	7.08	7.10	7.30	7.37	7.24	7.18	7.35	7.51	7.06	6.96	7.78	7.39	7.55	7.46
	MW-3	6.93	7.57	7.27	7.33	7.15	7.38	6.98	6.95	7.15	7.35	7.14	6.74	7.25	7.34	7.19	7.10	6.92	7.47	7.52	7.48	7.37
	MW-18	--	--	7.51	7.41	7.5	7.17	7.53	7.32	7.59	7.57	7.30	7.91	7.62	7.63	7.53	7.41	7.49	7.73	7.54	7.56	7.76
	MW-20	--	--	--	6.24	6.85	6.78	6.82	6.75	7.3	6.87	6.75	7.1	7.10	6.95	7.03	6.98	6.95	7.11	7.20	7.12	7.04
	PZ-5	7.79	8.04	7.79	--	7.59	7.85	8.44	7.5	7.59	7.72	NA	7.64	7.89	7.77	8.03	NA	NA	NA	NA	NA	NA
	PZ-6	7.11	--	7.62	--	7.82	--	8.1	--	7.15	--	7.81	--	7.95	7.90	7.82	NA	NA	NA	NA	--	NA
	PZ-8	6.76	7.43	--	--	NA	7.16	NA	7.09	NA	NA	7.30	7.28	NA	NA	7.18	NA	NA	NA	NA	NA	NA
	PZ-11R	7.24	7.56	7.07	6.93	7.07	6.51	7.12	7.54	7.18	7.11	6.78	7.49	7.14	7.03	7.21	6.92	7.18	7.36	7.50	6.77	7.05
	PZ-13R	6.70	7.60	6.85	6.67	6.85	6.79	7.19	6.79	8.18	7.00	6.93	7.89	7.14	7.45	7.08	6.84	6.95	7.46	7.24	7.04	7.14
	A1-PZ-2	6.90	7.68	7.42	2.25*	7.25	7.49	7.74	8.13	7.85	7.88	7.42	7.33	7.95	7.99	7.24	7.42	7.68	8.47	8.04	7.77	8.08
	A2-PZ-1	6.90	7.42	7.12	7.25	6.95	7.07	7.34	7.10	7.09	7.22	6.99	6.73	7.11	7.21	7.16	7.02	6.94	7.47	7.60	7.45	7.17
	A2-PZ-2	--	--	--	7.18	6.94	7.24	7.38	7.15	7.14	7.14	7.12	6.53	7.13	7.32	7.19	7.11	7.14	7.47	7.63	7.59	7.49
Objective 2	MW-5	6.81	--	6.91	--	7.17	--	7.29	--	7.42	--	7.36	--	7.52	--	7.44	--	7.36	--	--	--	--
	MW-13S	6.97	--	--	--	--	6.58	7.31	7.05	NA	NA	7.30	7.26	NA	7.49	7.35	7.52	NA	7.42	--	--	--
	MW-14BR	9.67	--	--	--	7.64	--	--	--	7.25	--	--	--	7.42	--	--	--	7.65	--	--	--	--
	MW-21	--	--	7.35	7.13	7.23	7.55	7.81	7.38	7.66	7.50	7.48	7.62	7.63	7.72	7.73	7.82	7.50	7.76	8.06	7.65	7.54
	PZ-18	6.78	--	--	--	6.9	--	--	--	6.99	--	--	--	7.23	--	--	--	7.00	--	--	--	--
	PZ-26	7.72	--	--	--	7.66	--	--	--	8.11	--	--	--	8.21	--	--	--	7.79	--	--	--	--
Objective 3	MW-2	7.29	--	--	--	7.3	--	--	--	7.61	--	--	--	7.70	--	--	--	7.41	--	--	--	7.49
	MW-4	6.83	--	--	--	7.11	--	--	--	7.26	--	--	--	7.37	--	--	--	7.02	--	--	--	7.36
	MW-10	7.30	--	--	--	7.37	--	--	--	7.44	--	--	--	7.46	--	--	--	7.30	--	--	--	7.50
	PZ-7	7.18	--	7.21	--	7.13	--	7.27	--	7.07	--	7.00	--	7.69	--	7.47	--	NA	--	--	--	--

See last page for notes.

Table D-7
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Utica, New York

	Well ID	Specific Conductivity (mS/cm)																				
Sampling Date		Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16
Objective 1	MW-1	1.764	1.123	1.816	1.625	1.173	0.658	1.217	0.868	0.983	0.722	0.740	0.780	1.220	0.780	0.750	0.870	0.910	0.81	1.47	1.62	1.23
	MW-3	1.966	1.435	2.514	1.919	1.299	0.829	3.563	1.182	1.455	1.031	0.530	0.007	1.790	1.730	1.600	1.940	1.320	0.94	3.38	2.06	1.13
	MW-18	--	--	0.836	0.696	0.759	0.689	0.966	0.929	0.736	0.570	0.810	0.780	0.770	0.655	0.720	0.444	0.490	0.497	0.389	1.08	0.79
	MW-20	--	--	--	8.13	5.737	5.153	6.672	6.010	5.082	4.258	9.130	9.060	7.740	7.360	9.130	8.420	3.240	7.69	9.05	8.98	8.13
	PZ-5	1.372	1.193	1.527	--	1.533	1.364	0.815	1.745	1.832	1.634	NA	1.800	1.740	1.590	1.020	NA	NA	NA	NA	NA	NA
	PZ-6	1.666	--	1.445	--	1.774	--	1.573	--	1.727	--	1.720	--	1.800	1.630	0.990	NA	NA	NA	NA	--	NA
	PZ-8	1.316	1.021	--	--	NA	0.942	NA	1.380	NA	NA	0.900	0.522	NA	NA	0.550	NA	NA	NA	NA	NA	NA
	PZ-11R	3.222	1.398	4.986	3.639	2.867	2.846	6.129	4.125	3.180	3.200	8.940	4.930	3.620	5.110	8.880	5.630	4.050	4.82	7.94	7.15	4.71
	PZ-13R	7.593	2.762	5.503	7.164	6.601	4.704	6.226	9.009	6.874	4.840	12.700	9.350	7.320	6.720	14.460	9.540	8.640	8.30	16.01	10.09	9.57
	A1-PZ-2	2.397	1.096	1.262	1.828	1.214	0.859	0.659	0.648	0.512	0.477	1.100	0.476	0.511	0.583	2.510	1.040	1.020	0.672	0.542	0.310	0.492
	A2-PZ-1	1.271	0.709	1.247	1.22	1.097	0.769	1.186	1.097	0.931	0.638	1.180	1.450	1.380	1.020	1.060	1.120	1.110	1.04	0.97	1.07	0.94
	A2-PZ-2	--	--	--	1.738	1.134	0.826	1.015	1.081	1.023	0.699	0.770	1.140	1.200	0.990	1.190	1.230	1.110	1.13	1.21	1.54	1.14
Objective 2	MW-5	9.422	--	8.55	--	5.004	--	5.690	--	6.862	--	7.060	--	5.890	--	3.510	--	5.060	--	--	--	--
	MW-13S	1.756	--	--	--	--	0.885	1.417	0.878	NA	NA	1.130	1.180	NA	0.920	0.744	0.403	NA	0.85	--	--	--
	MW-14BR	8.862	--	--	--	11.57	--	--	--	8.825	--	--	--	10.790	--	--	--	8.940	--	--	--	--
	MW-21	--	--	9.773	8.36	12.15	5.203	4.104	4.588	5.891	4.514	8.650	6.450	5.760	4.570	5.310	4.760	5.340	3.01	2.81	2.15	5.63
	PZ-18	6.487	--	--	--	3.062	--	--	--	0.102	--	--	--	3.41	--	--	--	3.770	--	--	--	--
	PZ-26	0.636	--	--	--	0.67	--	--	--	0.599	--	--	--	0.740	--	--	--	0.740	--	--	--	--
Objective 3	MW-2	1.831	--	--	--	2.003	--	--	--	1.715	--	--	--	1.870	--	--	--	2.360	--	--	--	2.34
	MW-4	1.729	--	--	--	2.164	--	--	--	1.544	--	--	--	2.510	--	--	--	2.580	--	--	--	2.90
	MW-10	1.751	--	--	--	2.722	--	--	--	2.634	--	--	--	2.980	--	--	--	2.920	--	--	--	2.92
	PZ-7	1.389	--	1.063	--	1.22	--	1.091	--	1.019	--	1.030	--	0.930	--	0.980	--	NA	--	--	--	--

See last page for notes.

Table D-7
Groundwater Sampling Field Parameters - September 2011 through October 2016
2016 Annual Site Management Report
Former Lockheed Martin French Road Facility
Utica, New York

	Well ID	DO (mg/L)																				
Sampling Date		Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16
Objective 1	MW-1	0.24	2.90	1.69	0.52	0.80	3.25	4.30	3.59	1.06	3.91	8.52	2.49	0.27	5.78	6.90	2.02	1.74	8.07	7.58	4.43	6.06
	MW-3	0.71	1.01	1.76	0.46	0.68	1.06	2.71	0.86	0.33	0.39	6.13	1.14	0.14	0.45	3.35	0.53	0.18	3.20	3.57	1.75	5.71
	MW-18	--	--	0.82	1.03	0.2	0.16	4.4	0.64	0.33	1.04	0.75	0.21	0.16	2.80	0.33	2.30[A]	0.75	0.00	0.70	0.53	0.53
	MW-20	--	--	--	0.55	0.62	4.5	1.28	1.95	0.21	2.1	0.78	0.27	3.62	1.06	0.61	1.99[A]	0.30	0.42	0.70	0.25	0.93
	PZ-5	0.85	2.40	2.59	--	0.68	0.6	2.45	1.14	2.15	2.38	NA	4.8	3.57**	3.24	1.60	NA	NA	1.89	NA	NA	NA
	PZ-6	1.70	--	1.55	--	0.89	--	NA	--	2.39	--	0.52	--	2.28**	4.57**	2.51	NA	NA	2.75	NA	--	NA
	PZ-8	0.89	1.58	--	--	NA	1.48	NA	4.01	NA	NA	2.61	6.19	NA	NA	3.58	NA	NA	5.25	NA	NA	NA
	PZ-11R	0.60	4.34	7.45	5.19	2.91	3.31	8.82	2.30	3.94	4.31	7.48	6.27	1.92**	3.40**	8.92	0.84**	1.78	4.43***	2.64***	3.88***	3.48***
	PZ-13R	0.04	2.48	3.44	2.09	0.80	2.83	3.52	2.89	2.34	4.58	2.53	3.85	4.40**	5.72**	9.02	1.07**	2.81	4.33***	3.16***	1.37***	3.65***
	A1-PZ-2	1.31	8.24	0.51	0.16	0.10	1.02	0.88	5.37	0.10	2.62	0.88	0.80	0.035**	3.60**	0.10	0.38	0.02	1.23	1.47	2.07	0.39
	A2-PZ-1	0.43	1.07	0.86	0.65	0.80	5.4	1.09	0.09	0.49	0.08	0.69	0.02	1.97	0.70	0.10	0.09	0.13	0.47	0.30	0.43	0.86
	A2-PZ-2	--	--	--	1.10	1.40	0.87	2.6	1.07	2.17	1.52	8.14	2.33	2.87**	6.45**	2.28	1.34	1.32	3.47	4.16	1.49	2.45
Objective 2	MW-5	0.03	--	1.04	--	0.22	--	3.67	--	1.54	--	1.73	--	1.18	--	1.27	--	1.45	--	--	--	--
	MW-13S	1.52	--	--	--	--	2.95	1.97	0.77	NA	NA	5.82	1.21	NA	3.97	2.87	3.47**	NA	7.20***	--	--	--
	MW-14BR	1.90	--	--	--	4.17	--	--	--	1.59	--	--	--	1.93	--	--	--	0.64	--	--	--	--
	MW-21	--	--	0.54	0.33	0.89	0.15	0.57	0.53	0.13	2.7	2.75	0.5	0.37	0.85	0.31	1.23[A]	0.20	0.21	0.62	0.54	0.22
	PZ-18	0.12	--	--	--	4.34	--	--	--	2.44	--	--	--	1.94**	--	--	--	0.56	--	--	--	--
	PZ-26	0.08	--	--	--	0.2	--	--	--	2.39	--	--	--	0.17	--	--	--	0.20	--	--	--	--
Objective 3	MW-2	0.60	--	--	--	0.2	--	--	--	0.18	--	--	--	0.76	--	--	--	0.67	--	--	--	0.25
	MW-4	0.57	--	--	--	0.4	--	--	--	2.19	--	--	--	3.74	--	--	--	1.08	--	--	--	1.54
	MW-10	0.09	--	--	--	0.2	--		--	0.15	--	--	--	0.08	--	--	--	0.00	--	--	--	0.37
	PZ-7	1.81	--	1.6	--	0.75	--	1.46	--	2.17	--	1.91	--	2.71**	--	2.05	--	NA	--	--	--	--

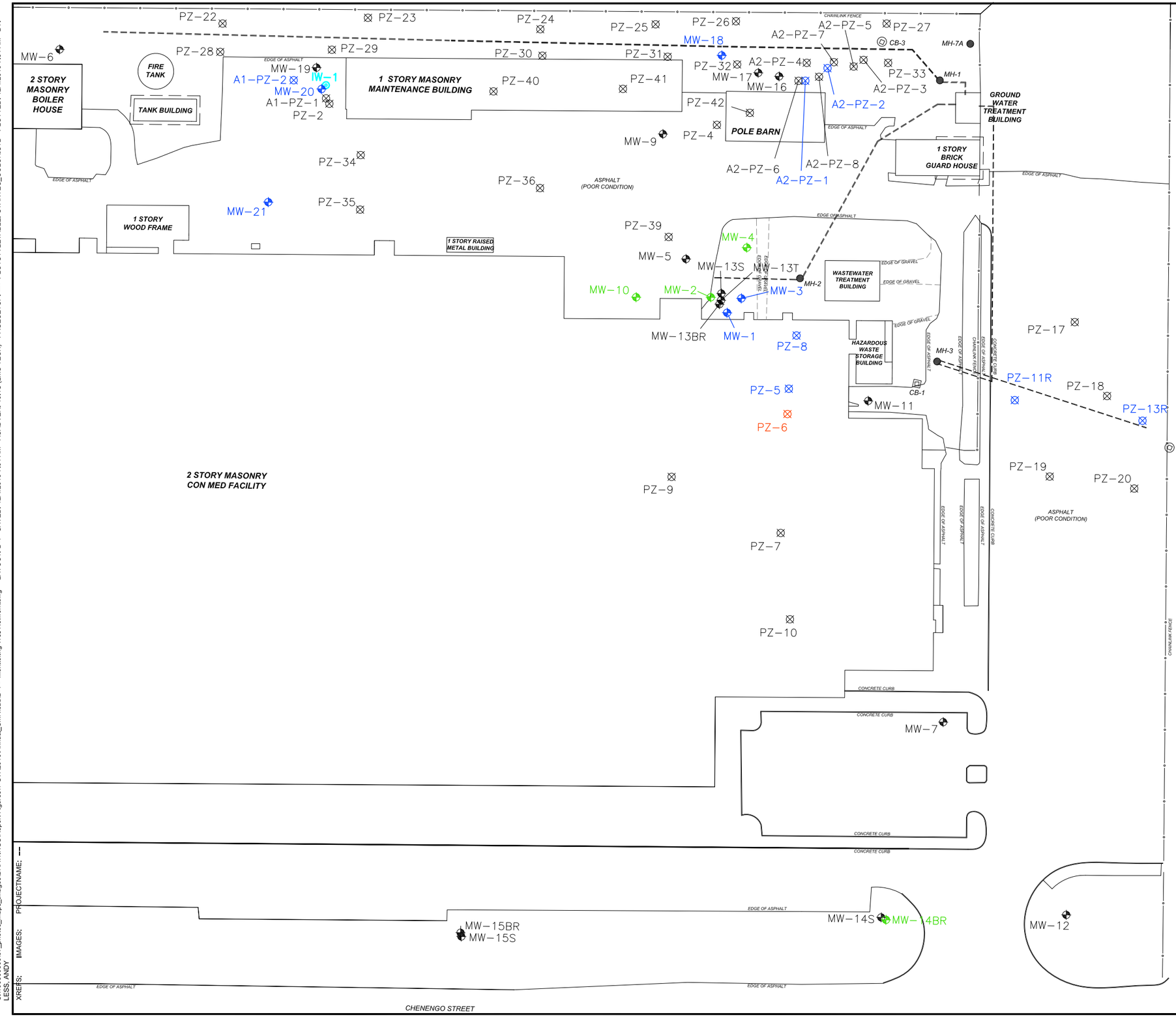
See last page for notes.

Table D-7
Groundwater Sampling Field Parameters - September 2011 through October 2016
2016 Annual Site Management Report
Former Lockheed Martin French Road Facility
Utica, New York

	Well ID	ORP (mV)																				
Sampling Date		Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16
Objective 1	MW-1	121.2	-42.7	46.9	63.1	-203.6	82.0	97.30	69.0	50.7	32.3	202.1	151.7	150.9	111.7	115.0	125.6	171.8	65.2	70.7	212.5	3
	MW-3	89.6	-42.9	59.3	62.4	-216.6	119.6	81.20	70.3	62.7	29.2	208.6	127.4	177.1	120.9	84.9	147.5	129.1	105.0	104.0	220.9	80
	MW-18	--	--	-77.4	92.8	-73.8	-53.8	-35.0	-84.3	-35.2	-94.5	40.2	-74.1	-76.9	-46.6	-30.6	-44.9	-82.6	-79.3	-2.0	90.7	-82
	MW-20	--	--	--	-100	-160.6	-67.4	-63.5	-114.3	-94.4	-98.4	-51.1	-92	60.3	-69.3	-88.0	-103.0	-106.0	-61.8	-78.5	-80.2	-57
	PZ-5	-139.2	-88.3	-84.3	--	-132	121.16	92.40	-75.9	-48.6	-90.0	NA	181.20	53.4	86.0	63.8	NA	NA	127.2	NA	NA	NA
	PZ-6	12.4	--	-74	--	-58.6	--	16.1	--	-40	--	30.3	--	30.2	51.6	71.1	NA	NA	106.5	NA	--	NA
	PZ-8	73.7	-23.4	--	--	NA	115.4	NA	102.0	NA	NA	-19.3	241.7	NA	NA	227.3	NA	NA	136.5	NA	NA	NA
	PZ-11R	33.0	-70.7	-2.1	104.2	-2.0	146.6	44.50	88.5	62.2	61.4	2.40	125.00	204.1	118.6	85.4	55.5	146.0	126.3***	111.2***	161.3***	92***
	PZ-13R	-28.2	-28.1	201.3	-35.0	-18.5	3.3	5.30	83.5	-52.9	22.5	-23.40	-110.10	34.4	103.3	39.1	67.8	35.7	133.3***	138.9***	118.3***	78***
	A1-PZ-2	-96.0	-39.2	-63.1	-78.3	-190.7	-28.9	186.90	-41.7	-178.5	-104.1	-115.70	-126.70	-149.6	-75.0	-121.6	-121.8	-198.7	-107.7	-72.8	40.9	-160
	A2-PZ-1	-48.4	-87.9	-91.4	50.4	-208.2	-39.7	-36.90	-110.3	-111.1	-112.1	-90.60	-99.80	-68.8	-74.7	-49.0	-109.6	-104.6	-43.8	-86.2	203.5	-86
	A2-PZ-2	--	--	--	-78.3	-16.8	25.3	96.0	-16.0	-53.6	-1.1	60.9	-41.9	-10.0	21.3	-15.5	-55.4	44.6	1.4	26.6	84.5	-23.7
Objective 2	MW-5	-55.1	--	-83.6	--	-97.2	--	20.4	--	-21.8	--	-10.7	--	-63.1	--	-80.1	--	-110.7	--	--	--	--
	MW-13S	83.2	--	--	--	--	160.7	65.2	153.7	NA	NA	215.8	109.8	NA	175.6	98.5	107.9	NA	133.7***	--	--	--
	MW-14BR	-27.4	--	--	--	-254.5	--	--	--	-141.3	--	--	--	-105.4	--	--	--	-204.5	--	--	--	--
	MW-21	--	--	-98.8	90.4	-112.7	-101.9	-85.6	-110.1	-68.5	-113.6	-77.2	-116.5	-86.7	-86.6	-112.3	-19.6	-131.1	-143.3	-102.6	58.7	-102
	PZ-18	-17.9	--	--	--	-48.4	--	--	--	-61.1	--	--	--	37.4	--	--	--	-81.6	--	--	--	--
	PZ-26	-55.6	--	--	--	-27.8	--	--	--	-40.9	--	--	--	-59.9	--	--	--	-89.0	--	--	--	--
Objective 3	MW-2	-122.4	--	--	--	-108	--	--	--	-52.9	--	--	--	-66.9	--	--	--	-98.9	--	--	--	-147
	MW-4	68.8	--	--	--	-53	--	--	--	-12.7	--	--	--	41.4	--	--	--	-1.1	--	--	--	-147
	MW-10	-145.3	--	--	--	-254.2	--	--	--	-118.3	--	--	--	-110.4	--	--	--	-134.8	--	--	--	-167
	PZ-7	-20.0	--	-97.8	--	-88	--	-31.0	--	-60.9	--	-41.0	--	67.5	--	98.8	--	NA	--	--	--	--

See last page for notes.

FIGURES



LEGEND:

IW-1	INJECTION WELL LOCATION
MW-10	MONITORING WELL LOCATION
PZ-9	PIEZOMETER LOCATION
	QUARTERLY SAMPLING LOCATION
	SEMI ANNUAL SAMPLING LOCATION
	ANNUAL SAMPLING LOCATION
	GROUNDWATER COLLECTION TRENCH
	FENCE LINE
MH-2	GROUNDWATER COLLECTION MANHOLE LOCATION
CB-2	CATCH BASIN WITH INLET GRATE LOCATION

NOTES:

1. GROUNDWATER ELEVATIONS TO BE COLLECTED QUARTERLY FROM ALL SITE WELLS.

0 40' 80'
SCALE IN FEET

2016 ANNUAL SITE MANAGEMENT REPORT
APPENDIX D: Groundwater Monitoring Report
FORMER LOCKHEED MARTIN, FRENCH ROAD FACILITY
UTICA, NEW YORK

MONITORING WELL NETWORK

Stantec

FIGURE
D-1

CITY:MAHWAH DIV/GROUP:ENVIRONMENTAL DB:J.GONZALEZ LD:J.BONSTEEL PIC:L.MCBURNEY PM:C.MOTTA TM:J.BONSTEEL LYR:(Opt)ON=*;OFF=*REF*
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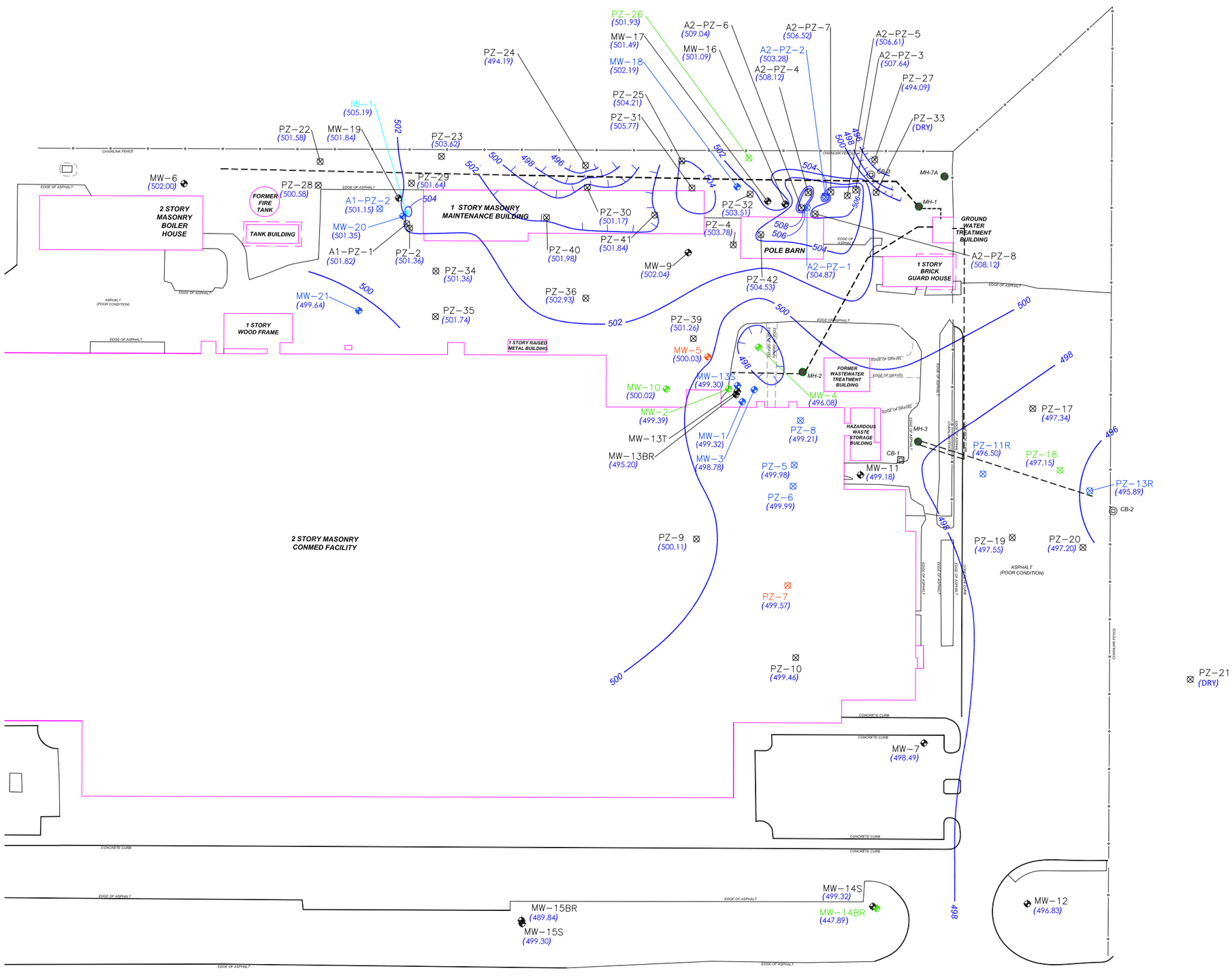

LEGEND:

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- MW-10 — MONITORING WELL LOCATION
- PZ-9 — PIEZOMETER LOCATION
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- ANNUAL SAMPLING LOCATION
- (501.52) — QUARTERLY GROUNDWATER ELEVATION POINT (AMSL)
- 500 — GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- GCTS UNDERDRAIN
- FENCE LINE
- MH-2 — GROUNDWATER COLLECTION MANHOLE LOCATION
- CB-2 — CATCH BASIN OR MANHOLE WITH INLET GRATE LOCATION

NOTES:

1. BASE PLAN ADAPTED FROM DRAWING ENTITLED "2013 ANNUAL GROUNDWATER MONITORING REPORT, JANUARY 2013 GROUNDWATER CONTOURS" PREPARED BY ARCADIS.
2. THIS DRAWING IS REFERENCED HORIZONTALLY TO THE NORTH AMERICAN DATUM OF 1983 (NAD83) AND PROJECTED ON THE NEW YORK STATE PLAN COORDINATE SYSTEM (CENTRAL ZONE).
3. THE REFERENCED HORIZONTAL CONTROL STATION IS A GPS CONTINUOUSLY OPERATING REFERENCE STATION (CORS) DESIGNATED AS "ROME CORS ARP" (NYRM). NYRM IS A SPECIAL HORIZONTAL AND VERTICAL CONTROL STATION ESTABLISHED BY NATIONAL GEODETIC SURVEY IN JULY 1997.
4. CONTOURS WERE DEVELOPED USING WATER LEVEL DATA FROM JANUARY 5, 2016.
5. PZ-21 AND PZ-33 WERE GAUGED BUT DRY.

0 50 100
SCALE IN FEET

2016 ANNUAL SITE MANAGEMENT REPORT
APPENDIX D: Groundwater Monitoring Report
FORMER LOCKHEED MARTIN, FRENCH ROAD FACILITY
UTICA, NEW YORK

GROUNDWATER CONTOURS JANUARY 2016

Stantec

D-2A

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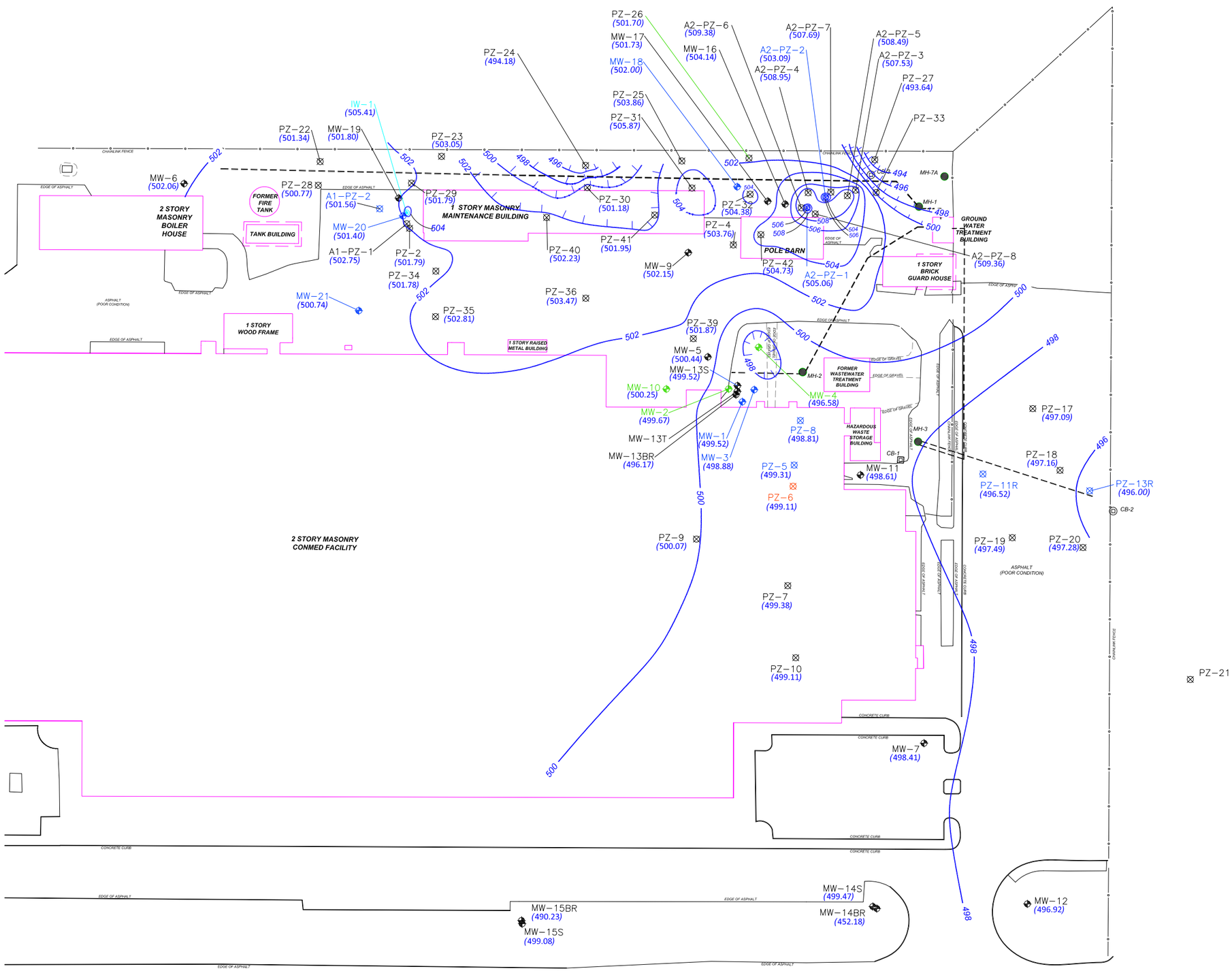

LEGEND:

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4. CONTOURS WERE DEVELOPED USING WATER LEVEL DATA FROM APRIL 5, 2016.
5. PZ-21 AND PZ-33 WERE GAUGED BUT DRY.
6. BEDROCK GROUNDWATER LEVELS WERE NOT USED IN THE DEVELOPMENT OF THE CONTOUR PLAN.

0 50 100
SCALE IN FEET

2016 ANNUAL SITE MANAGEMENT REPORT
APPENDIX D: Groundwater Monitoring Report
FORMER LOCKHEED MARTIN, FRENCH ROAD FACILITY
UTICA, NEW YORK

GROUNDWATER CONTOURS APRIL 2016

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D-2B

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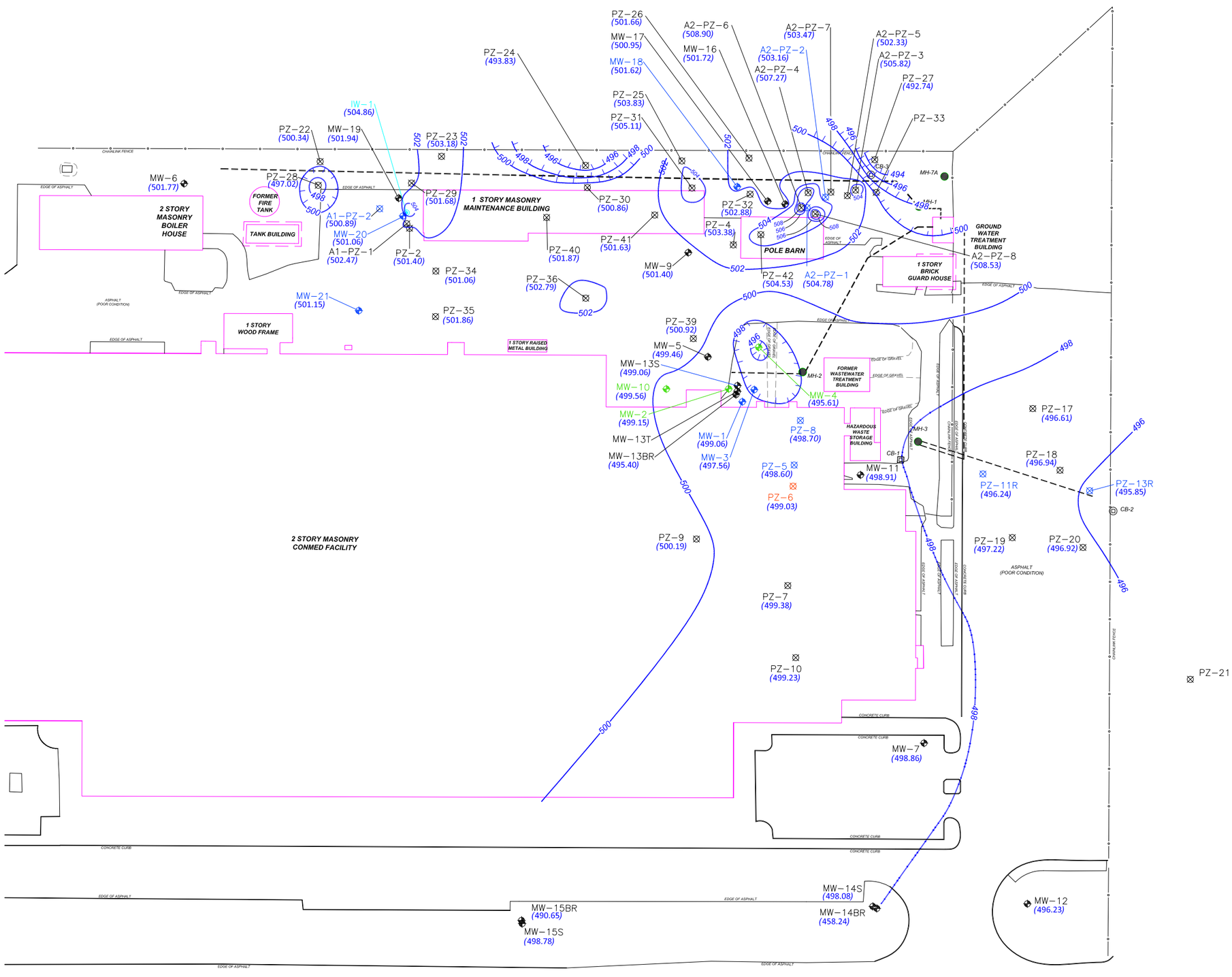

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4. CONTOURS WERE DEVELOPED USING WATER LEVEL DATA FROM JULY 11, 2016.
5. PZ-21 AND PZ-33 WERE GAUGED BUT DID NOT CONTAIN MEASURABLE WATER.
6. BEDROCK GROUNDWATER LEVELS WERE NOT USED IN THE DEVELOPMENT OF THE CONTOUR PLAN.

0 50 100
SCALE IN FEET

2016 ANNUAL SITE MANAGEMENT REPORT
APPENDIX D: Groundwater Monitoring Report
FORMER LOCKHEED MARTIN, FRENCH ROAD FACILITY
UTICA, NEW YORK

GROUNDWATER CONTOURS JULY 2016

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D-2C

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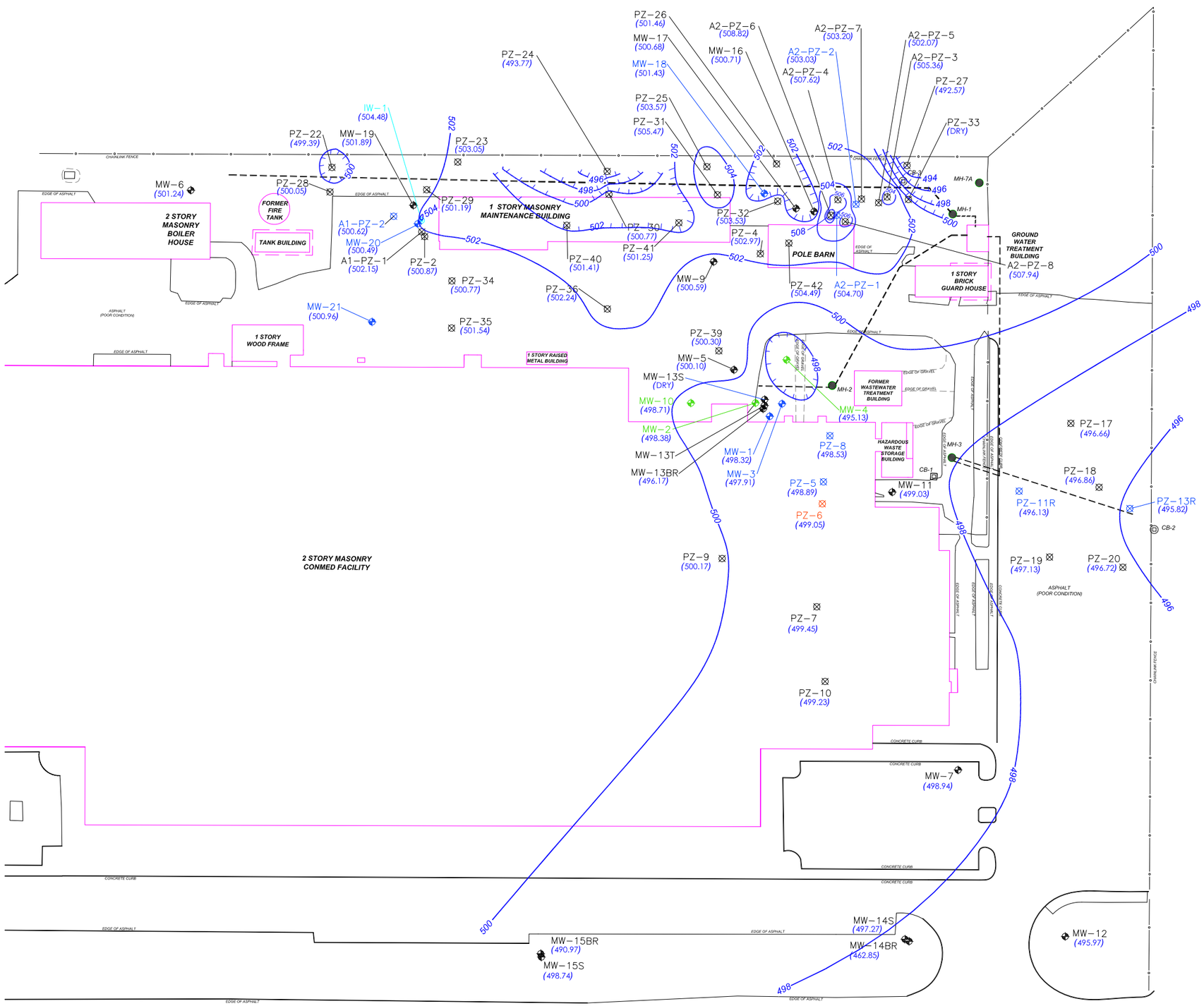

LEGEND:

- IW-1 — INJECTION WELL LOCATION
- MW-10 — MONITORING WELL LOCATION
- PZ-9 — PIEZOMETER LOCATION
- QUARTERLY SAMPLING LOCATION
- SEMI-ANNUAL SAMPLING LOCATION
- ANNUAL SAMPLING LOCATION
- (501.52) — QUARTERLY GROUNDWATER ELEVATION POINT (AMSL)
- 500 — GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- GCTS UNDERDRAIN
- FENCE LINE
- MH-2 — GROUNDWATER COLLECTION MANHOLE LOCATION
- CB-2 — CATCH BASIN OR MANHOLE WITH INLET GRATE LOCATION

NOTES:

1. BASE PLAN ADAPTED FROM DRAWING ENTITLED "2013 ANNUAL GROUNDWATER MONITORING REPORT, JANUARY 2013 GROUNDWATER CONTOURS" PREPARED BY ARCADIS.
2. THIS DRAWING IS REFERENCED HORIZONTALLY TO THE NORTH AMERICAN DATUM OF 1983 (NAD83) AND PROJECTED ON THE NEW YORK STATE PLAN COORDINATE SYSTEM (CENTRAL ZONE).
3. THE REFERENCED HORIZONTAL CONTROL STATION IS A GPS CONTINUOUSLY OPERATING REFERENCE STATION (CORS) DESIGNATED AS "ROME CORS ARP" (NYRM). NYRM IS A SPECIAL HORIZONTAL AND VERTICAL CONTROL STATION ESTABLISHED BY NATIONAL GEODETIC SURVEY IN JULY 1997.
4. CONTOURS WERE DEVELOPED USING WATER LEVEL DATA FROM OCTOBER 10, 2016.
5. PZ-21, PZ-33, AND MW-13S WERE GAUGED BUT DID NOT CONTAIN MEASURABLE WATER.
6. BEDROCK GROUNDWATER LEVELS WERE NOT USED IN THE DEVELOPMENT OF THE CONTOUR PLAN.

0 50 100
SCALE IN FEET

2016 ANNUAL SITE MANAGEMENT REPORT
APPENDIX D: Groundwater Monitoring Report
FORMER LOCKHEED MARTIN, FRENCH ROAD FACILITY
UTICA, NEW YORK

GROUNDWATER CONTOURS OCTOBER 2016

Stantec

D-2D

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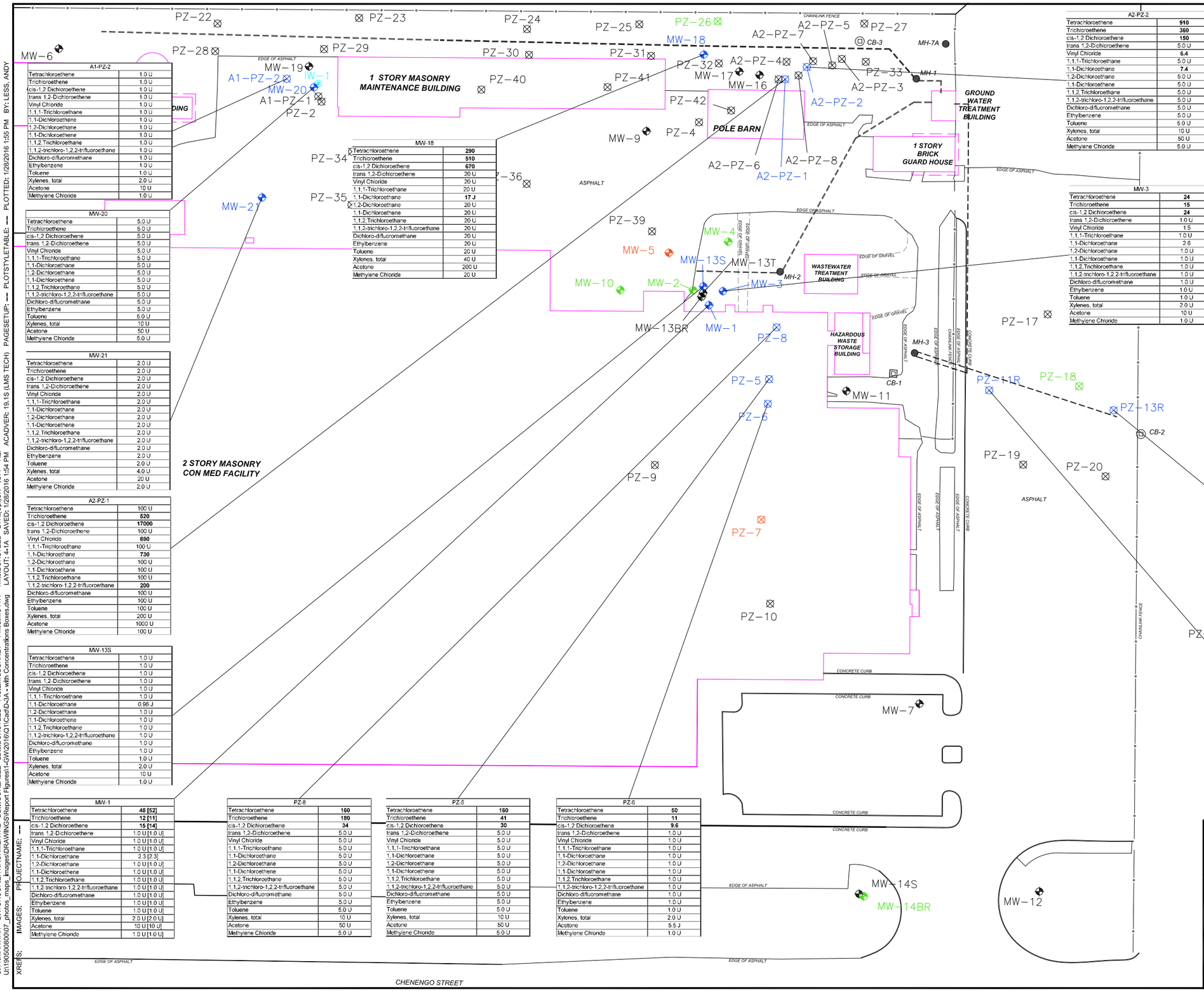

A1-PZ-2	
Tetrachloroethene	1.0 U
Trichloroethene	1.0 U
cis-1,2 Dichloroethene	1.0 U
trans 1,2-Dichloroethene	1.0 U
Vinyl Chloride	1.0 U
1,1,1-Trichloroethane	1.0 U
1,1-Dichloroethane	1.0 U
1,2-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 U
1,1,2,Trichloroethane	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	1.0 U
Dichloro-difluoromethane	1.0 U
Ethylbenzene	1.0 U
Toluene	1.0 U
Xylenes, total	2.0 U
Acetone	10 U
Methylene Chloride	1.0 U

MW-20	
Tetrachloroethene	5.0 U
Trichloroethene	5.0 U
cis-1,2 Dichloroethene	5.0 U
trans 1,2-Dichloroethene	5.0 U
Vinyl Chloride	5.0 U
1,1,1-Trichloroethane	5.0 U
1,1-Dichloroethane	5.0 U
1,2-Dichloroethane	5.0 U
1,1-Dichloroethene	5.0 U
1,1,2,Trichloroethane	5.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	5.0 U
Dichloro-difluoromethane	5.0 U
Ethylbenzene	5.0 U
Toluene	5.0 U
Xylenes, total	10 U
Acetone	50 U
Methylene Chloride	5.0 U

MW-21	
Tetrachloroethene	2.0 U
Trichloroethene	2.0 U
cis-1,2 Dichloroethene	2.0 U
trans 1,2-Dichloroethene	2.0 U
Vinyl Chloride	2.0 U
1,1,1-Trichloroethane	2.0 U
1,1-Dichloroethane	2.0 U
1,2-Dichloroethane	2.0 U
1,1-Dichloroethene	2.0 U
1,1,2,Trichloroethane	2.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	2.0 U
Dichloro-difluoromethane	2.0 U
Ethylbenzene	2.0 U
Toluene	2.0 U
Xylenes, total	4.0 U
Acetone	20 U
Methylene Chloride	2.0 U

A2-PZ-1	
Tetrachloroethene	100 U
Trichloroethene	**520**
cis-1,2 Dichloroethene	**17000**
trans 1,2-Dichloroethene	100 U
Vinyl Chloride	**690**
1,1,1-Trichloroethane	100 U
1,1-Dichloroethane	**730**
1,2-Dichloroethane	100 U
1,1-Dichloroethene	100 U
1,1,2,Trichloroethane	100 U
1,1,2-trichloro-1,2,2-trifluoroethane	**200**
Dichloro-difluoromethane	100 U
Ethylbenzene	100 U
Toluene	100 U
Xylenes, total	200 U
Acetone	1000 U
Methylene Chloride	100 U

MW-13S	
Tetrachloroethene	1.0 U
Trichloroethene	1.0 U
cis-1,2 Dichloroethene	1.0 U
trans 1,2-Dichloroethene	1.0 U
Vinyl Chloride	1.0 U
1,1,1-Trichloroethane	1.0 U
1,1-Dichloroethane	0.96 J
1,2-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 U
1,1,2,Trichloroethane	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	1.0 U
Dichloro-difluoromethane	1.0 U
Ethylbenzene	1.0 U
Toluene	1.0 U
Xylenes, total	2.0 U
Acetone	10 U
Methylene Chloride	1.0 U

MW-18	
Tetrachloroethene	**290**
Trichloroethene	**510**
cis-1,2 Dichloroethene	**670**
trans 1,2-Dichloroethene	20 U
Vinyl Chloride	20 U
1,1,1-Trichloroethane	20 U
1,1-Dichloroethane	**17 J**
1,2-Dichloroethane	20 U
1,1-Dichloroethene	20 U
1,1,2,Trichloroethane	20 U
1,1,2-trichloro-1,2,2-trifluoroethane	20 U
Dichloro-difluoromethane	20 U
Ethylbenzene	20 U
Toluene	20 U
Xylenes, total	40 U
Acetone	200 U
Methylene Chloride	20 U

A2-PZ-2	
Tetrachloroethene	**910**
Trichloroethene	**350**
cis-1,2 Dichloroethene	**150**
trans 1,2-Dichloroethene	5.0 U
Vinyl Chloride	**6.4**
1,1,1-Trichloroethane	5.0 U
1,1-Dichloroethane	**7.4**
1,2-Dichloroethane	5.0 U
1,1-Dichloroethene	5.0 U
1,1,2,Trichloroethane	5.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	5.0 U
Dichloro-difluoromethane	5.0 U
Ethylbenzene	5.0 U
Toluene	5.0 U
Xylenes, total	10 U
Acetone	50 U
Methylene Chloride	5.0 U

MW-3	
Tetrachloroethene	**24**
Trichloroethene	**15**
cis-1,2 Dichloroethene	**24**
trans 1,2-Dichloroethene	1.0 U
Vinyl Chloride	1.5
1,1,1-Trichloroethane	1.0 U
1,1-Dichloroethane	2.6
1,2-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 U
1,1,2,Trichloroethane	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	1.0 U
Dichloro-difluoromethane	1.0 U
Ethylbenzene	1.0 U
Toluene	1.0 U
Xylenes, total	2.0 U
Acetone	10 U
Methylene Chloride	1.0 U

PZ-13R	
Tetrachloroethene	0.88 J
Trichloroethene	3.1
cis-1,2 Dichloroethene	1.3
trans 1,2-Dichloroethene	1.0 U
Vinyl Chloride	1.0 U
1,1,1-Trichloroethane	1.0 U
1,1-Dichloroethane	1.0 U
1,2-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 U
1,1,2,Trichloroethane	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	1.0 U
Dichloro-difluoromethane	1.0 U
Ethylbenzene	1.0 U
Toluene	1.0 U
Xylenes, total	2.0 U
Acetone	10 U
Methylene Chloride	1.0 U

PZ-11R	
Tetrachloroethene	2.4
Trichloroethene	3.3
cis-1,2 Dichloroethene	3.0
trans 1,2-Dichloroethene	1.0 U
Vinyl Chloride	1.0 U
1,1,1-Trichloroethane	1.0 U
1,1-Dichloroethane	1.0 U
1,2-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 U
1,1,2,Trichloroethane	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	1.0 U
Dichloro-difluoromethane	1.0 U
Ethylbenzene	1.0 U
Toluene	1.0 U
Xylenes, total	2.0 U
Acetone	10 U
Methylene Chloride	1.0 U

MW-1	
Tetrachloroethene	**48 [52]**
Trichloroethene	**12 [11]**
cis-1,2 Dichloroethene	**15 [14]**
trans 1,2-Dichloroethene	1.0 U [1.0 U]
Vinyl Chloride	1.0 U [1.0 U]
1,1,1-Trichloroethane	1.0 U [1.0 U]
1,1-Dichloroethane	2.3 [2.3]
1,2-Dichloroethane	1.0 U [1.0 U]
1,1-Dichloroethene	1.0 U [1.0 U]
1,1,2,Trichloroethane	1.0 U [1.0 U]
1,1,2-trichloro-1,2,2-trifluoroethane	1.0 U [1.0 U]
Dichloro-difluoromethane	1.0 U [1.0 U]
Ethylbenzene	1.0 U [1.0 U]
Toluene	1.0 U [1.0 U]
Xylenes, total	2.0 U [2.0 U]
Acetone	10 U [10 U]
Methylene Chloride	1.0 U [1.0 U]

PZ-8	
Tetrachloroethene	**160**
Trichloroethene	**180**
cis-1,2 Dichloroethene	**34**
trans 1,2-Dichloroethene	5.0 U
Vinyl Chloride	5.0 U
1,1,1-Trichloroethane	5.0 U
1,1-Dichloroethane	5.0 U
1,2-Dichloroethane	5.0 U
1,1-Dichloroethene	5.0 U
1,1,2,Trichloroethane	5.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	5.0 U
Dichloro-difluoromethane	5.0 U
Ethylbenzene	5.0 U
Toluene	5.0 U
Xylenes, total	10 U
Acetone	50 U
Methylene Chloride	5.0 U

PZ-5	
Tetrachloroethene	**160**
Trichloroethene	**41**
cis-1,2 Dichloroethene	**30**
trans 1,2-Dichloroethene	5.0 U
Vinyl Chloride	5.0 U
1,1,1-Trichloroethane	5.0 U
1,1-Dichloroethane	5.0 U
1,2-Dichloroethane	5.0 U
1,1-Dichloroethene	5.0 U
1,1,2,Trichloroethane	5.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	5.0 U
Dichloro-difluoromethane	5.0 U
Ethylbenzene	5.0 U
Toluene	5.0 U
Xylenes, total	10 U
Acetone	50 U
Methylene Chloride	5.0 U

PZ-6	
Tetrachloroethene	**50**
Trichloroethene	**11**
cis-1,2 Dichloroethene	**9.6**
trans 1,2-Dichloroethene	1.0 U
Vinyl Chloride	1.0 U
1,1,1-Trichloroethane	1.0 U
1,1-Dichloroethane	1.0 U
1,2-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 U
1,1,2,Trichloroethane	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	1.0 U
Dichloro-difluoromethane	1.0 U
Ethylbenzene	1.0 U
Toluene	1.0 U
Xylenes, total	2.0 U
Acetone	5.5 J
Methylene Chloride	1.0 U

LEGEND:

- IW-1 — INJECTION WELL LOCATION
- MW-10 — MONITORING WELL LOCATION
- PZ-9 — PIEZOMETER LOCATION
- QUARTERLY SAMPLING LOCATION
- SEMI-ANNUAL SAMPLING LOCATION
- ANNUAL SAMPLING LOCATION
- GROUNDWATER COLLECTION TRENCH AND PIPING
- FENCE LINE
- MH-2 — GROUNDWATER COLLECTION MANHOLE LOCATION
- CB-2 — CATCHBASIN WITH INLET GRATE LOCATION

NOTES:

1. LABORATORY ANALYTICAL METHOD : USEPA METHOD 8260C.
2. CONCENTRATIONS IN MICROGRAMS PER LITER (ug/l).
3. DATA COMPARED TO NYSDEC TOGS 1.1.1 AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES.
4. EXCEEDENCES OF GROUNDWATER STANDARDS SHOWN IN BOLD
5. QUALIFIERS:
   - J FLAG IDENTIFIES ESTIMATED CONCENTRATION.
   - U FLAG IDENTIFIES COMPOUND NOT DETECTED; ASSOCIATED VALUE IS ANALYTE REPORTING LIMIT.
6. NOTE THAT THE SAMPLING FREQUENCY OF PZ-6 INCREASED FROM SEMI-ANNUAL TO QUARTERLY BASED ON FINDINGS IN THE 2014 ANNUAL GROUNDWATER MONITORING REPORT (STANTEC, FEBRUARY 2015). LOCATION PZ-6 IS NOW SHOWN IN BLUE DUE TO ITS INCLUSION IN QUARTERLY SAMPLING EVENTS.
7. FIELD DUPLICATE RESULTS ARE SHOWN IN BRACKETS.

0 40 80
SCALE IN FEET

2016 ANNUAL SITE MANAGEMENT REPORT
APPENDIX D: Groundwater Monitoring Report
FORMER LOCKHEED MARTIN, FRENCH ROAD FACILITY
UTICA, NEW YORK

GROUNDWATER MONITORING DATA JANUARY 2016

Stantec

D-3A

CITY:MAHWAH DIV/GROUP:ENVIRONMENTAL DB:J.GONZALEZ LD:J.BONSTEEL PIC:L.MCBURNEY PM:C.MOTTA TM:J.BONSTEEL LYR:(Opt)0=*;OFF=*REF*
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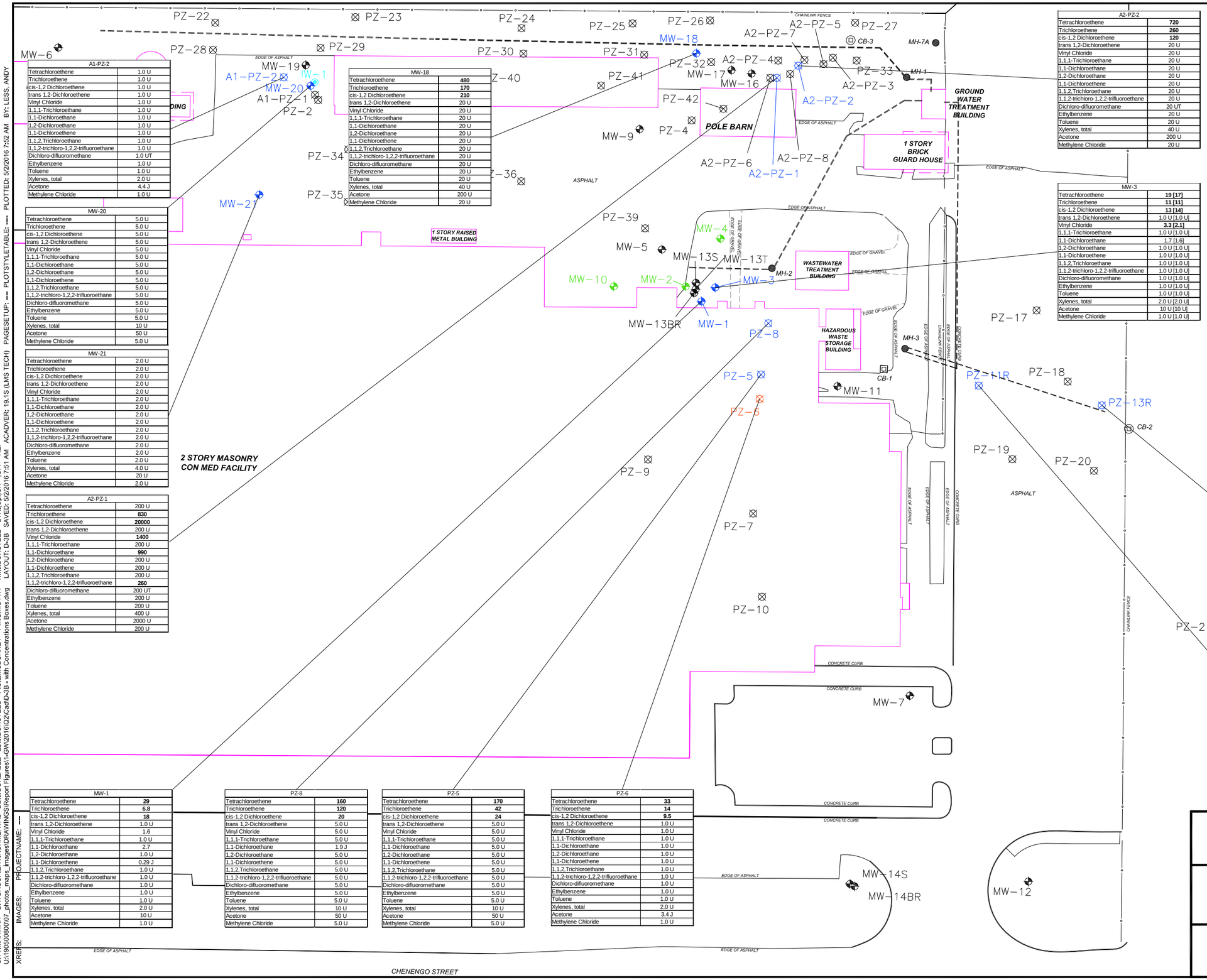

A1-PZ-2	
Tetrachloroethene	1.0 U
Trichloroethene	1.0 U
cis-1,2 Dichloroethene	1.0 U
trans 1,2-Dichloroethene	1.0 U
Vinyl Chloride	1.0 U
1,1,1-Trichloroethane	1.0 U
1,1-Dichloroethane	1.0 U
1,2-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 U
1,1,2,Trichloroethane	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	1.0 U
Dichloro-difluoromethane	1.0 UT
Ethylbenzene	1.0 U
Toluene	1.0 U
Xylenes, total	2.0 U
Acetone	4.4 J
Methylene Chloride	1.0 U

MW-18	
Tetrachloroethene	**480**
Trichloroethene	**170**
cis-1,2 Dichloroethene	**210**
trans 1,2-Dichloroethene	20 U
Vinyl Chloride	20 U
1,1,1-Trichloroethane	20 U
1,1-Dichloroethane	20 U
1,2-Dichloroethane	20 U
1,1-Dichloroethene	20 U
1,1,2,Trichloroethane	20 U
1,1,2-trichloro-1,2,2-trifluoroethane	20 U
Dichloro-difluoromethane	20 U
Ethylbenzene	20 U
Toluene	20 U
Xylenes, total	40 U
Acetone	200 U
Methylene Chloride	20 U

A2-PZ-2	
Tetrachloroethene	**720**
Trichloroethene	**260**
cis-1,2 Dichloroethene	**120**
trans 1,2-Dichloroethene	20 U
Vinyl Chloride	20 U
1,1,1-Trichloroethane	20 U
1,1-Dichloroethane	20 U
1,2-Dichloroethane	20 U
1,1-Dichloroethene	20 U
1,1,2,Trichloroethane	20 U
1,1,2-trichloro-1,2,2-trifluoroethane	20 U
Dichloro-difluoromethane	20 UT
Ethylbenzene	20 U
Toluene	20 U
Xylenes, total	40 U
Acetone	200 U
Methylene Chloride	20 U

MW-3	
Tetrachloroethene	**19 [17]**
Trichloroethene	**11 [11]**
cis-1,2 Dichloroethene	**13 [14]**
trans 1,2-Dichloroethene	1.0 U [1.0 U]
Vinyl Chloride	**3.3 [2.1]**
1,1,1-Trichloroethane	1.0 U [1.0 U]
1,1-Dichloroethane	1.7 [1.6]
1,2-Dichloroethane	1.0 U [1.0 U]
1,1-Dichloroethene	1.0 U [1.0 U]
1,1,2,Trichloroethane	1.0 U [1.0 U]
1,1,2-trichloro-1,2,2-trifluoroethane	1.0 U [1.0 U]
Dichloro-difluoromethane	1.0 U [1.0 U]
Ethylbenzene	1.0 U [1.0 U]
Toluene	1.0 U [1.0 U]
Xylenes, total	2.0 U [2.0 U]
Acetone	10 U [10 U]
Methylene Chloride	1.0 U [1.0 U]

MW-20	
Tetrachloroethene	5.0 U
Trichloroethene	5.0 U
cis-1,2 Dichloroethene	5.0 U
trans 1,2-Dichloroethene	5.0 U
Vinyl Chloride	5.0 U
1,1,1-Trichloroethane	5.0 U
1,1-Dichloroethane	5.0 U
1,2-Dichloroethane	5.0 U
1,1-Dichloroethene	5.0 U
1,1,2,Trichloroethane	5.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	5.0 U
Dichloro-difluoromethane	5.0 U
Ethylbenzene	5.0 U
Toluene	5.0 U
Xylenes, total	10 U
Acetone	50 U
Methylene Chloride	5.0 U

MW-21	
Tetrachloroethene	2.0 U
Trichloroethene	2.0 U
cis-1,2 Dichloroethene	2.0 U
trans 1,2-Dichloroethene	2.0 U
Vinyl Chloride	2.0 U
1,1,1-Trichloroethane	2.0 U
1,1-Dichloroethane	2.0 U
1,2-Dichloroethane	2.0 U
1,1-Dichloroethene	2.0 U
1,1,2,Trichloroethane	2.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	2.0 U
Dichloro-difluoromethane	2.0 U
Ethylbenzene	2.0 U
Toluene	2.0 U
Xylenes, total	4.0 U
Acetone	20 U
Methylene Chloride	2.0 U

A2-PZ-1	
Tetrachloroethene	200 U
Trichloroethene	**830**
cis-1,2 Dichloroethene	**20000**
trans 1,2-Dichloroethene	200 U
Vinyl Chloride	**1400**
1,1,1-Trichloroethane	200 U
1,1-Dichloroethane	**990**
1,2-Dichloroethane	200 U
1,1-Dichloroethene	200 U
1,1,2,Trichloroethane	200 U
1,1,2-trichloro-1,2,2-trifluoroethane	**260**
Dichloro-difluoromethane	200 UT
Ethylbenzene	200 U
Toluene	200 U
Xylenes, total	400 U
Acetone	2000 U
Methylene Chloride	200 U

PZ-13R	
Tetrachloroethene	0.59 J
Trichloroethene	2.0
cis-1,2 Dichloroethene	1.0 U
trans 1,2-Dichloroethene	1.0 U
Vinyl Chloride	1.0 U
1,1,1-Trichloroethane	1.0 U
1,1-Dichloroethane	1.0 U
1,2-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 U
1,1,2,Trichloroethane	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	1.0 U
Dichloro-difluoromethane	1.0 U
Ethylbenzene	1.0 U
Toluene	1.0 U
Xylenes, total	2.0 U
Acetone	10 U
Methylene Chloride	1.0 U

PZ-11R	
Tetrachloroethene	1.9
Trichloroethene	2.5
cis-1,2 Dichloroethene	1.6
trans 1,2-Dichloroethene	1.0 U
Vinyl Chloride	1.0 U
1,1,1-Trichloroethane	1.0 U
1,1-Dichloroethane	1.0 U
1,2-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 U
1,1,2,Trichloroethane	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	1.0 U
Dichloro-difluoromethane	1.0 U
Ethylbenzene	1.0 U
Toluene	1.0 U
Xylenes, total	2.0 U
Acetone	10 U
Methylene Chloride	1.0 U

MW-1	
Tetrachloroethene	**29**
Trichloroethene	**6.8**
cis-1,2 Dichloroethene	**18**
trans 1,2-Dichloroethene	1.0 U
Vinyl Chloride	1.6
1,1,1-Trichloroethane	1.0 U
1,1-Dichloroethane	2.7
1,2-Dichloroethane	1.0 U
1,1-Dichloroethene	0.29 J
1,1,2,Trichloroethane	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	1.0 U
Dichloro-difluoromethane	1.0 U
Ethylbenzene	1.0 U
Toluene	1.0 U
Xylenes, total	2.0 U
Acetone	10 U
Methylene Chloride	1.0 U

PZ-8	
Tetrachloroethene	**160**
Trichloroethene	**120**
cis-1,2 Dichloroethene	**20**
trans 1,2-Dichloroethene	5.0 U
Vinyl Chloride	5.0 U
1,1,1-Trichloroethane	5.0 U
1,1-Dichloroethane	1.9 J
1,2-Dichloroethane	5.0 U
1,1-Dichloroethene	5.0 U
1,1,2,Trichloroethane	5.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	5.0 U
Dichloro-difluoromethane	5.0 U
Ethylbenzene	5.0 U
Toluene	5.0 U
Xylenes, total	10 U
Acetone	50 U
Methylene Chloride	5.0 U

PZ-5	
Tetrachloroethene	**170**
Trichloroethene	**42**
cis-1,2 Dichloroethene	**24**
trans 1,2-Dichloroethene	5.0 U
Vinyl Chloride	5.0 U
1,1,1-Trichloroethane	5.0 U
1,1-Dichloroethane	5.0 U
1,2-Dichloroethane	5.0 U
1,1-Dichloroethene	5.0 U
1,1,2,Trichloroethane	5.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	5.0 U
Dichloro-difluoromethane	5.0 U
Ethylbenzene	5.0 U
Toluene	5.0 U
Xylenes, total	10 U
Acetone	50 U
Methylene Chloride	5.0 U

PZ-6	
Tetrachloroethene	**33**
Trichloroethene	**14**
cis-1,2 Dichloroethene	**9.5**
trans 1,2-Dichloroethene	1.0 U
Vinyl Chloride	1.0 U
1,1,1-Trichloroethane	1.0 U
1,1-Dichloroethane	1.0 U
1,2-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 U
1,1,2,Trichloroethane	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	1.0 U
Dichloro-difluoromethane	1.0 U
Ethylbenzene	1.0 U
Toluene	1.0 U
Xylenes, total	2.0 U
Acetone	3.4 J
Methylene Chloride	1.0 U

LEGEND:

- IW-1 — INJECTION WELL LOCATION
- MW-10 — MONITORING WELL LOCATION
- PZ-9 — PIEZOMETER LOCATION
- QUARTERLY SAMPLING LOCATION
- SEMI-ANNUAL SAMPLING LOCATION
- ANNUAL SAMPLING LOCATION
- GROUNDWATER COLLECTION TRENCH AND PIPING
- FENCE LINE
- MH-2 — GROUNDWATER COLLECTION MANHOLE LOCATION
- CB-2 — CATCHBASIN WITH INLET GRATE LOCATION

NOTES:

1. LABORATORY ANALYTICAL METHOD : USEPA METHOD 8260C.
2. CONCENTRATIONS IN MICROGRAMS PER LITER (ug/l).
3. DATA COMPARED TO NYSDEC TOGS 1.1.1 AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES.
4. EXCEEDENCES OF GROUNDWATER STANDARDS SHOWN IN BOLD
5. QUALIFIERS:
   - J FLAG IDENTIFIES ESTIMATED CONCENTRATION.
   - U FLAG IDENTIFIES COMPOUND NOT DETECTED; ASSOCIATED VALUE IS ANALYTE REPORTING LIMIT.
   - T FLAG INDICATES LCS AND/OR LCSD RECOVERY IS OUTSIDE ACCEPTANCE LIMITS.
6. FIELD DUPLICATE RESULTS ARE SHOWN IN BRACKETS.

0 40 80
SCALE IN FEET

2016 ANNUAL SITE MANAGEMENT REPORT
APPENDIX D: Groundwater Monitoring Report
FORMER LOCKHEED MARTIN, FRENCH ROAD FACILITY
UTICA, NEW YORK

GROUNDWATER MONITORING DATA APRIL 2016

Stantec

D-3B

CITY:MAHWAH DIV/GROUP:ENVIRONMENTAL DB:J.GONZALEZ LD:J.BONSTEEL PIC:L.MCBURNEY PM:C.MOTTA TM:J.BONSTEEL LYR:{Opt}ON=*;OFF=*REF*
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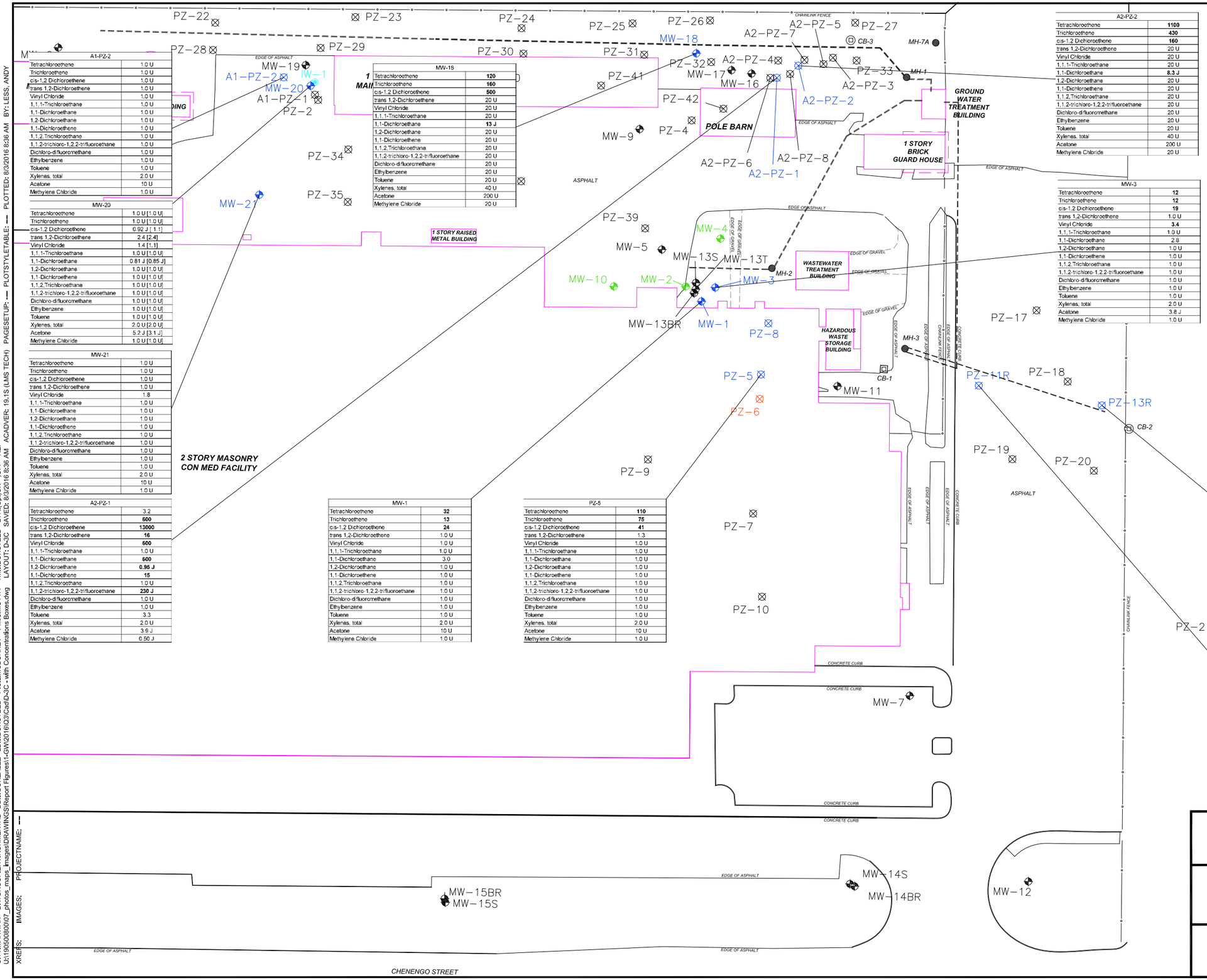

A1-PZ-2	
Tetrachloroethene	1.0 U
Trichloroethene	1.0 U
cis-1,2 Dichloroethene	1.0 U
trans 1,2-Dichloroethene	1.0 U
Vinyl Chloride	1.0 U
1,1,1-Trichloroethane	1.0 U
1,1-Dichloroethane	1.0 U
1,2-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 U
1,1,2,Trichloroethane	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	1.0 U
Dichloro-difluoromethane	1.0 U
Ethylbenzene	1.0 U
Toluene	1.0 U
Xylenes, total	2.0 U
Acetone	10 U
Methylene Chloride	1.0 U

MW-16	
Tetrachloroethene	**120**
Trichloroethene	**160**
cis-1,2 Dichloroethene	**500**
trans 1,2-Dichloroethene	20 U
Vinyl Chloride	20 U
1,1,1-Trichloroethane	20 U
1,1-Dichloroethane	**13 J**
1,2-Dichloroethane	20 U
1,1-Dichloroethene	20 U
1,1,2,Trichloroethane	20 U
1,1,2-trichloro-1,2,2-trifluoroethane	20 U
Dichloro-difluoromethane	20 U
Ethylbenzene	20 U
Toluene	20 U
Xylenes, total	40 U
Acetone	200 U
Methylene Chloride	20 U

A2-PZ-2	
Tetrachloroethene	**1100**
Trichloroethene	**430**
cis-1,2 Dichloroethene	**160**
trans 1,2-Dichloroethene	20 U
Vinyl Chloride	20 U
1,1,1-Trichloroethane	20 U
1,1-Dichloroethane	**8.3 J**
1,2-Dichloroethane	20 U
1,1-Dichloroethene	20 U
1,1,2,Trichloroethane	20 U
1,1,2-trichloro-1,2,2-trifluoroethane	20 U
Dichloro-difluoromethane	20 U
Ethylbenzene	20 U
Toluene	20 U
Xylenes, total	40 U
Acetone	200 U
Methylene Chloride	20 U

MW-3	
Tetrachloroethene	**12**
Trichloroethene	**12**
cis-1,2 Dichloroethene	**19**
trans 1,2-Dichloroethene	1.0 U
Vinyl Chloride	**3.4**
1,1,1-Trichloroethane	1.0 U
1,1-Dichloroethane	2.8
1,2-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 U
1,1,2,Trichloroethane	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	1.0 U
Dichloro-difluoromethane	1.0 U
Ethylbenzene	1.0 U
Toluene	1.0 U
Xylenes, total	2.0 U
Acetone	3.8 J
Methylene Chloride	1.0 U

MW-20	
Tetrachloroethene	1.0 U [1.0 U]
Trichloroethene	1.0 U [1.0 U]
cis-1,2 Dichloroethene	0.92 J [1.1]
trans 1,2-Dichloroethene	2.4 [2.4]
Vinyl Chloride	1.4 [1.1]
1,1,1-Trichloroethane	1.0 U [1.0 U]
1,1-Dichloroethane	0.81 J [0.85 J]
1,2-Dichloroethane	1.0 U [1.0 U]
1,1-Dichloroethene	1.0 U [1.0 U]
1,1,2,Trichloroethane	1.0 U [1.0 U]
1,1,2-trichloro-1,2,2-trifluoroethane	1.0 U [1.0 U]
Dichloro-difluoromethane	1.0 U [1.0 U]
Ethylbenzene	1.0 U [1.0 U]
Toluene	1.0 U [1.0 U]
Xylenes, total	2.0 U [2.0 U]
Acetone	5.2 J [3.1 J]
Methylene Chloride	1.0 U [1.0 U]

MW-21	
Tetrachloroethene	1.0 U
Trichloroethene	1.0 U
cis-1,2 Dichloroethene	1.0 U
trans 1,2-Dichloroethene	1.0 U
Vinyl Chloride	1.8
1,1,1-Trichloroethane	1.0 U
1,1-Dichloroethane	1.0 U
1,2-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 U
1,1,2,Trichloroethane	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	1.0 U
Dichloro-difluoromethane	1.0 U
Ethylbenzene	1.0 U
Toluene	1.0 U
Xylenes, total	2.0 U
Acetone	10 U
Methylene Chloride	1.0 U

A2-PZ-1	
Tetrachloroethene	3.2
Trichloroethene	**500**
cis-1,2 Dichloroethene	**13000**
trans 1,2-Dichloroethene	**16**
Vinyl Chloride	**600**
1,1,1-Trichloroethane	1.0 U
1,1-Dichloroethane	**600**
1,2-Dichloroethane	**0.95 J**
1,1-Dichloroethene	**15**
1,1,2,Trichloroethane	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	**230 J**
Dichloro-difluoromethane	1.0 U
Ethylbenzene	1.0 U
Toluene	3.3
Xylenes, total	2.0 U
Acetone	3.9 J
Methylene Chloride	0.50 J

MW-1	
Tetrachloroethene	**32**
Trichloroethene	**13**
cis-1,2 Dichloroethene	**24**
trans 1,2-Dichloroethene	1.0 U
Vinyl Chloride	1.0 U
1,1,1-Trichloroethane	1.0 U
1,1-Dichloroethane	3.0
1,2-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 U
1,1,2,Trichloroethane	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	1.0 U
Dichloro-difluoromethane	1.0 U
Ethylbenzene	1.0 U
Toluene	1.0 U
Xylenes, total	2.0 U
Acetone	10 U
Methylene Chloride	1.0 U

PZ-5	
Tetrachloroethene	**110**
Trichloroethene	**75**
cis-1,2 Dichloroethene	**41**
trans 1,2-Dichloroethene	1.3
Vinyl Chloride	1.0 U
1,1,1-Trichloroethane	1.0 U
1,1-Dichloroethane	1.0 U
1,2-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 U
1,1,2,Trichloroethane	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	1.0 U
Dichloro-difluoromethane	1.0 U
Ethylbenzene	1.0 U
Toluene	1.0 U
Xylenes, total	2.0 U
Acetone	10 U
Methylene Chloride	1.0 U

PZ-13R	
Tetrachloroethene	1.2
Trichloroethene	4.3
cis-1,2 Dichloroethene	1.9
trans 1,2-Dichloroethene	1.0 U
Vinyl Chloride	1.0 U
1,1,1-Trichloroethane	1.0 U
1,1-Dichloroethane	1.0 U
1,2-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 U
1,1,2,Trichloroethane	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	1.0 U
Dichloro-difluoromethane	1.0 U
Ethylbenzene	1.0 U
Toluene	1.0 U
Xylenes, total	2.0 U
Acetone	10 U
Methylene Chloride	1.0 U

PZ-11R	
Tetrachloroethene	4.6
Trichloroethene	**5.4**
cis-1,2 Dichloroethene	1.8
trans 1,2-Dichloroethene	1.0 U
Vinyl Chloride	1.0 U
1,1,1-Trichloroethane	1.0 U
1,1-Dichloroethane	1.0 U
1,2-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 U
1,1,2,Trichloroethane	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	1.0 U
Dichloro-difluoromethane	1.0 U
Ethylbenzene	1.0 U
Toluene	1.0 U
Xylenes, total	2.0 U
Acetone	10 U
Methylene Chloride	1.0 U

LEGEND:

- IW-1 — INJECTION WELL LOCATION
- MW-10 — MONITORING WELL LOCATION
- PZ-9 — PIEZOMETER LOCATION
- QUARTERLY SAMPLING LOCATION
- SEMI-ANNUAL SAMPLING LOCATION
- ANNUAL SAMPLING LOCATION
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- FENCE LINE
- MH-2 — GROUNDWATER COLLECTION MANHOLE LOCATION
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NOTES:

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2. CONCENTRATIONS IN MICROGRAMS PER LITER (ug/l).
3. DATA COMPARED TO NYSDEC TOGS 1.1.1 AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES.
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6. FIELD DUPLICATE RESULTS ARE SHOWN IN BRACKETS.

0 40 80
SCALE IN FEET

2016 ANNUAL SITE MANAGEMENT REPORT
APPENDIX D: Groundwater Monitoring Report
FORMER LOCKHEED MARTIN, FRENCH ROAD FACILITY
UTICA, NEW YORK

GROUNDWATER MONITORING DATA JULY 2016

Stantec

D-3C

CITY:MAHWAH DIV/GROUP:ENVIRONMENTAL DB:J.GONZALEZ LD:J.BONSTEEL PIC:L.MCBURNEY PM:C.MOTTA TM:J.BONSTEEL LYR:(Opt)ON=*;OFF=*REF*
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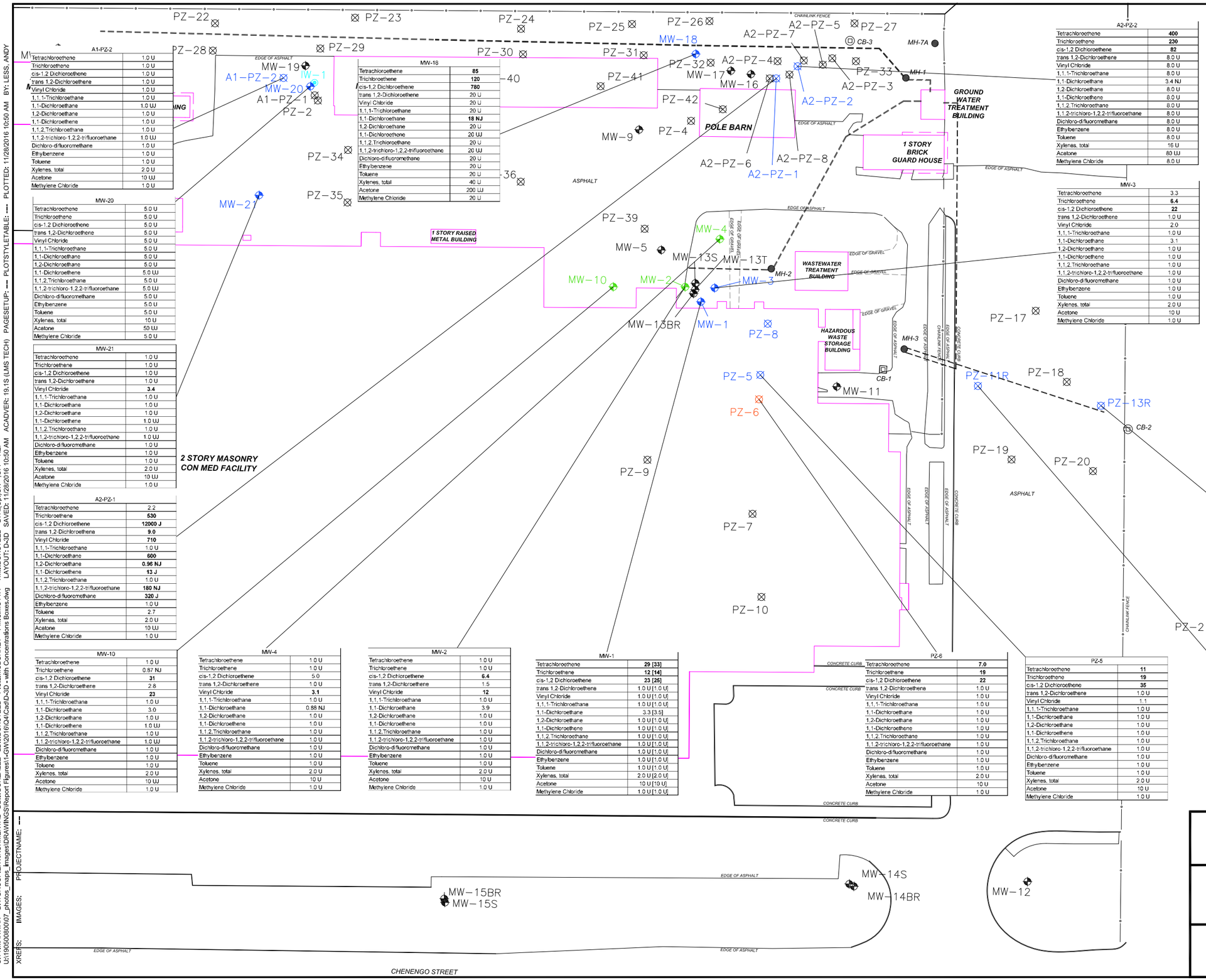


A1-PZ-2	
Tetrachloroethene	1.0 U
Trichloroethene	1.0 U
cis-1,2 Dichloroethene	1.0 U
trans 1,2-Dichloroethene	1.0 U
Vinyl Chloride	1.0 U
1,1,1-Trichloroethane	1.0 U
1,1-Dichloroethane	1.0 UJ
1,2-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 U
1,1,2,Trichloroethane	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	1.0 UJ
Dichloro-difluoromethane	1.0 U
Ethylbenzene	1.0 U
Toluene	1.0 U
Xylenes, total	2.0 U
Acetone	10 UJ
Methylene Chloride	1.0 U

MW-18	
Tetrachloroethene	**85**
Trichloroethene	**120**
cis-1,2 Dichloroethene	**780**
trans 1,2-Dichloroethene	20 U
Vinyl Chloride	20 U
1,1,1-Trichloroethane	20 U
1,1-Dichloroethane	**18 NJ**
1,2-Dichloroethane	20 U
1,1-Dichloroethene	20 UJ
1,1,2,Trichloroethane	20 U
1,1,2-trichloro-1,2,2-trifluoroethane	20 UJ
Dichloro-difluoromethane	20 U
Ethylbenzene	20 U
Toluene	20 U
Xylenes, total	40 U
Acetone	200 UJ
Methylene Chloride	20 U

A2-PZ-2	
Tetrachloroethene	**400**
Trichloroethene	**230**
cis-1,2 Dichloroethene	**82**
trans 1,2-Dichloroethene	8.0 U
Vinyl Chloride	8.0 U
1,1,1-Trichloroethane	8.0 U
1,1-Dichloroethane	3.4 NJ
1,2-Dichloroethane	8.0 U
1,1-Dichloroethene	8.0 U
1,1,2,Trichloroethane	8.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	8.0 U
Dichloro-difluoromethane	8.0 U
Ethylbenzene	8.0 U
Toluene	8.0 U
Xylenes, total	16 U
Acetone	80 UJ
Methylene Chloride	8.0 U

MW-3	
Tetrachloroethene	3.3
Trichloroethene	**6.4**
cis-1,2 Dichloroethene	**22**
trans 1,2-Dichloroethene	1.0 U
Vinyl Chloride	2.0
1,1,1-Trichloroethane	1.0 U
1,1-Dichloroethane	3.1
1,2-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 U
1,1,2,Trichloroethane	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	1.0 U
Dichloro-difluoromethane	1.0 U
Ethylbenzene	1.0 U
Toluene	1.0 U
Xylenes, total	2.0 U
Acetone	10 U
Methylene Chloride	1.0 U

MW-20	
Tetrachloroethene	5.0 U
Trichloroethene	5.0 U
cis-1,2 Dichloroethene	5.0 U
trans 1,2-Dichloroethene	5.0 U
Vinyl Chloride	5.0 U
1,1,1-Trichloroethane	5.0 U
1,1-Dichloroethane	5.0 U
1,2-Dichloroethane	5.0 U
1,1-Dichloroethene	5.0 UJ
1,1,2,Trichloroethane	5.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	5.0 UJ
Dichloro-difluoromethane	5.0 U
Ethylbenzene	5.0 U
Toluene	5.0 U
Xylenes, total	10 U
Acetone	50 UJ
Methylene Chloride	5.0 U

MW-21	
Tetrachloroethene	1.0 U
Trichloroethene	1.0 U
cis-1,2 Dichloroethene	1.0 U
trans 1,2-Dichloroethene	1.0 U
Vinyl Chloride	**3.4**
1,1,1-Trichloroethane	1.0 U
1,1-Dichloroethane	1.0 U
1,2-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 UJ
1,1,2,Trichloroethane	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	1.0 UJ
Dichloro-difluoromethane	1.0 U
Ethylbenzene	1.0 U
Toluene	1.0 U
Xylenes, total	2.0 U
Acetone	10 UJ
Methylene Chloride	1.0 U

A2-PZ-1	
Tetrachloroethene	2.2
Trichloroethene	**530**
cis-1,2 Dichloroethene	**12000 J**
trans 1,2-Dichloroethene	**9.0**
Vinyl Chloride	**710**
1,1,1-Trichloroethane	1.0 U
1,1-Dichloroethane	**600**
1,2-Dichloroethane	**0.96 NJ**
1,1-Dichloroethene	**13 J**
1,1,2,Trichloroethane	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	**180 NJ**
Dichloro-difluoromethane	**320 J**
Ethylbenzene	1.0 U
Toluene	2.7
Xylenes, total	2.0 U
Acetone	10 UJ
Methylene Chloride	1.0 U

MW-10	
Tetrachloroethene	1.0 U
Trichloroethene	0.87 NJ
cis-1,2 Dichloroethene	**31**
trans 1,2-Dichloroethene	2.8
Vinyl Chloride	**23**
1,1,1-Trichloroethane	1.0 U
1,1-Dichloroethane	3.0
1,2-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 UJ
1,1,2,Trichloroethane	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	1.0 UJ
Dichloro-difluoromethane	1.0 U
Ethylbenzene	1.0 U
Toluene	1.0 U
Xylenes, total	2.0 U
Acetone	10 UJ
Methylene Chloride	1.0 U

MW-4	
Tetrachloroethene	1.0 U
Trichloroethene	1.0 U
cis-1,2 Dichloroethene	5.0
trans 1,2-Dichloroethene	1.0 U
Vinyl Chloride	**3.1**
1,1,1-Trichloroethane	1.0 U
1,1-Dichloroethane	0.88 NJ
1,2-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 U
1,1,2,Trichloroethane	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	1.0 U
Dichloro-difluoromethane	1.0 U
Ethylbenzene	1.0 U
Toluene	1.0 U
Xylenes, total	2.0 U
Acetone	10 U
Methylene Chloride	1.0 U

MW-2	
Tetrachloroethene	1.0 U
Trichloroethene	1.0 U
cis-1,2 Dichloroethene	**6.4**
trans 1,2-Dichloroethene	1.5
Vinyl Chloride	**12**
1,1,1-Trichloroethane	1.0 U
1,1-Dichloroethane	3.9
1,2-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 U
1,1,2,Trichloroethane	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	1.0 U
Dichloro-difluoromethane	1.0 U
Ethylbenzene	1.0 U
Toluene	1.0 U
Xylenes, total	2.0 U
Acetone	10 U
Methylene Chloride	1.0 U

MW-1	
Tetrachloroethene	**29 [33]**
Trichloroethene	**12 [14]**
cis-1,2 Dichloroethene	**23 [25]**
trans 1,2-Dichloroethene	1.0 U [1.0 U]
Vinyl Chloride	1.0 U [1.0 U]
1,1,1-Trichloroethane	1.0 U [1.0 U]
1,1-Dichloroethane	3.3 [3.5]
1,2-Dichloroethane	1.0 U [1.0 U]
1,1-Dichloroethene	1.0 U [1.0 U]
1,1,2,Trichloroethane	1.0 U [1.0 U]
1,1,2-trichloro-1,2,2-trifluoroethane	1.0 U [1.0 U]
Dichloro-difluoromethane	1.0 U [1.0 U]
Ethylbenzene	1.0 U [1.0 U]
Toluene	1.0 U [1.0 U]
Xylenes, total	2.0 U [2.0 U]
Acetone	10 U [10 U]
Methylene Chloride	1.0 U [1.0 U]

PZ-6	
Tetrachloroethene	**7.0**
Trichloroethene	**19**
cis-1,2 Dichloroethene	**22**
trans 1,2-Dichloroethene	1.0 U
Vinyl Chloride	1.0 U
1,1,1-Trichloroethane	1.0 U
1,1-Dichloroethane	1.0 U
1,2-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 U
1,1,2,Trichloroethane	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	1.0 U
Dichloro-difluoromethane	1.0 U
Ethylbenzene	1.0 U
Toluene	1.0 U
Xylenes, total	2.0 U
Acetone	10 U
Methylene Chloride	1.0 U

PZ-5	
Tetrachloroethene	**11**
Trichloroethene	**19**
cis-1,2 Dichloroethene	**35**
trans 1,2-Dichloroethene	1.0 U
Vinyl Chloride	1.1
1,1,1-Trichloroethane	1.0 U
1,1-Dichloroethane	1.0 U
1,2-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 U
1,1,2,Trichloroethane	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	1.0 U
Dichloro-difluoromethane	1.0 U
Ethylbenzene	1.0 U
Toluene	1.0 U
Xylenes, total	2.0 U
Acetone	10 U
Methylene Chloride	1.0 U

PZ-13R	
Tetrachloroethene	1.3
Trichloroethene	**5.1**
cis-1,2 Dichloroethene	2.2
trans 1,2-Dichloroethene	1.0 U
Vinyl Chloride	1.0 U
1,1,1-Trichloroethane	1.0 U
1,1-Dichloroethane	1.0 U
1,2-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 UJ
1,1,2,Trichloroethane	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	1.0 UJ
Dichloro-difluoromethane	1.0 U
Ethylbenzene	1.0 U
Toluene	1.0 U
Xylenes, total	2.0 U
Acetone	10 UJ
Methylene Chloride	1.0 U

PZ-11R	
Tetrachloroethene	4.2
Trichloroethene	**7.2**
cis-1,2 Dichloroethene	1.7
trans 1,2-Dichloroethene	1.0 U
Vinyl Chloride	1.0 U
1,1,1-Trichloroethane	1.0 U
1,1-Dichloroethane	1.0 U
1,2-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 UJ
1,1,2,Trichloroethane	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	1.0 UJ
Dichloro-difluoromethane	1.0 U
Ethylbenzene	1.0 U
Toluene	1.0 U
Xylenes, total	2.0 U
Acetone	10 UJ
Methylene Chloride	1.0 U

LEGEND:

- IW-1 — INJECTION WELL LOCATION
- MW-10 — MONITORING WELL LOCATION
- PZ-9 — PIEZOMETER LOCATION
- QUARTERLY SAMPLING LOCATION
- SEMI-ANNUAL SAMPLING LOCATION
- ANNUAL SAMPLING LOCATION
- GROUNDWATER COLLECTION TRENCH AND PIPING
- FENCE LINE
- MH-2 — GROUNDWATER COLLECTION MANHOLE LOCATION
- CB-2 — CATCHBASIN WITH INLET GRATE LOCATION

NOTES:

1. LABORATORY ANALYTICAL METHOD : USEPA METHOD 8260C.
2. CONCENTRATIONS IN MICROGRAMS PER LITER (ug/l).
3. DATA COMPARED TO NYSDEC TOGS 1.1.1 AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES.
4. EXCEEDENCES OF GROUNDWATER STANDARDS SHOWN IN BOLD
5. QUALIFIERS:
   - J FLAG IDENTIFIES ESTIMATED CONCENTRATION.
   - NJ FLAG INDICATES THE COMPOUND HAS BEEN "TENTATIVELY IDENTIFIED"; THE ASSOCIATED NUMERICAL VALUE REPRESENTS ITS APPROXIMATE CONCENTRATION.
   - U FLAG IDENTIFIES COMPOUND NOT DETECTED; ASSOCIATED VALUE IS ANALYTE REPORTING LIMIT.
6. FIELD DUPLICATE RESULTS ARE SHOWN IN BRACKETS.

0 40 80
SCALE IN FEET

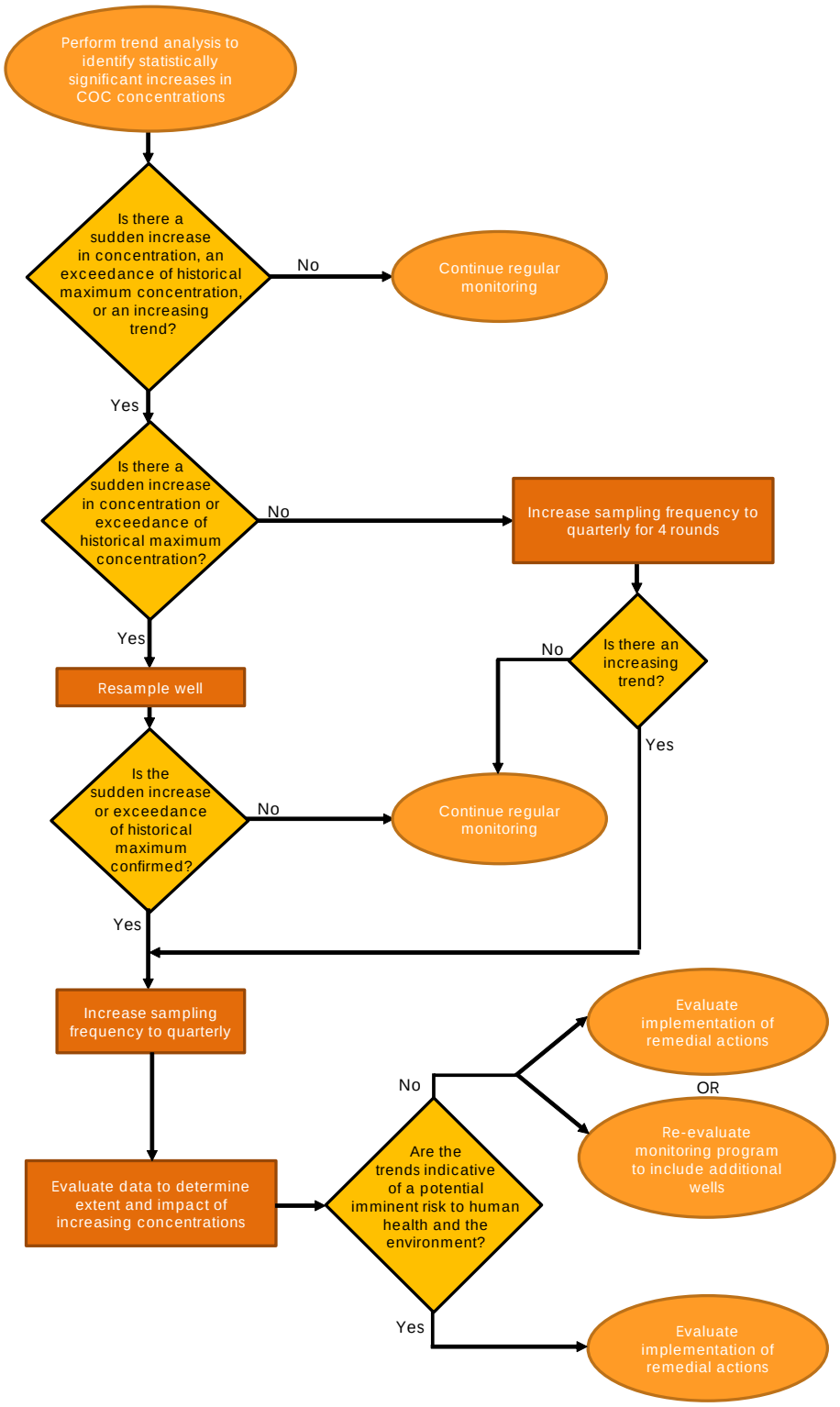
2016 ANNUAL SITE MANAGEMENT REPORT
APPENDIX D: Groundwater Monitoring Report
FORMER LOCKHEED MARTIN, FRENCH ROAD FACILITY
UTICA, NEW YORK

GROUNDWATER MONITORING DATA OCTOBER 2016

Stantec

D-3D

CITY:MAHWAH DIV/GROUP:ENVIRONMENTAL DB:J.GONZALEZ LD:J.BONSTEEL PIC:L.MCBURNEY PM:C.MOTTA TM:J.BONSTEEL LYR:(Opt)ON=*;OFF=*REF*
U:\190500800\07_photos_maps_Images\DRAWINGS\Report Figures\1-GW2016\Q4\Cad\D-3D - with Concentrations Boxes.dwg LAYOUT: D-3D SAVED: 11/28/2016 10:50 AM PLOTSTYLETABLE: ---- PLOTTED: 11/28/2016 10:50 AM BY: LESS, ANDY
XREFS: IMAGES: PROJECTNAME: ACADVER: 19.1S (LMS TECH) PAGESETUP: ----



Project Location: 525 French Road, Utica, New York	Prepared by LB on 2016-11-23 Technical Review by RJM on 2017-01-xx Independent Review by PN on 2017-01-xx
	190500800

Client/Project

2016 Annual Site Management Report
Former Lockheed Martin French Road Facility
Utica, NY

Figure No.

D-4

Title

Decision Tree for Performance Monitoring

Stantec

61 Commercial Street, Suite 100
Rochester NY
www.stantec.com

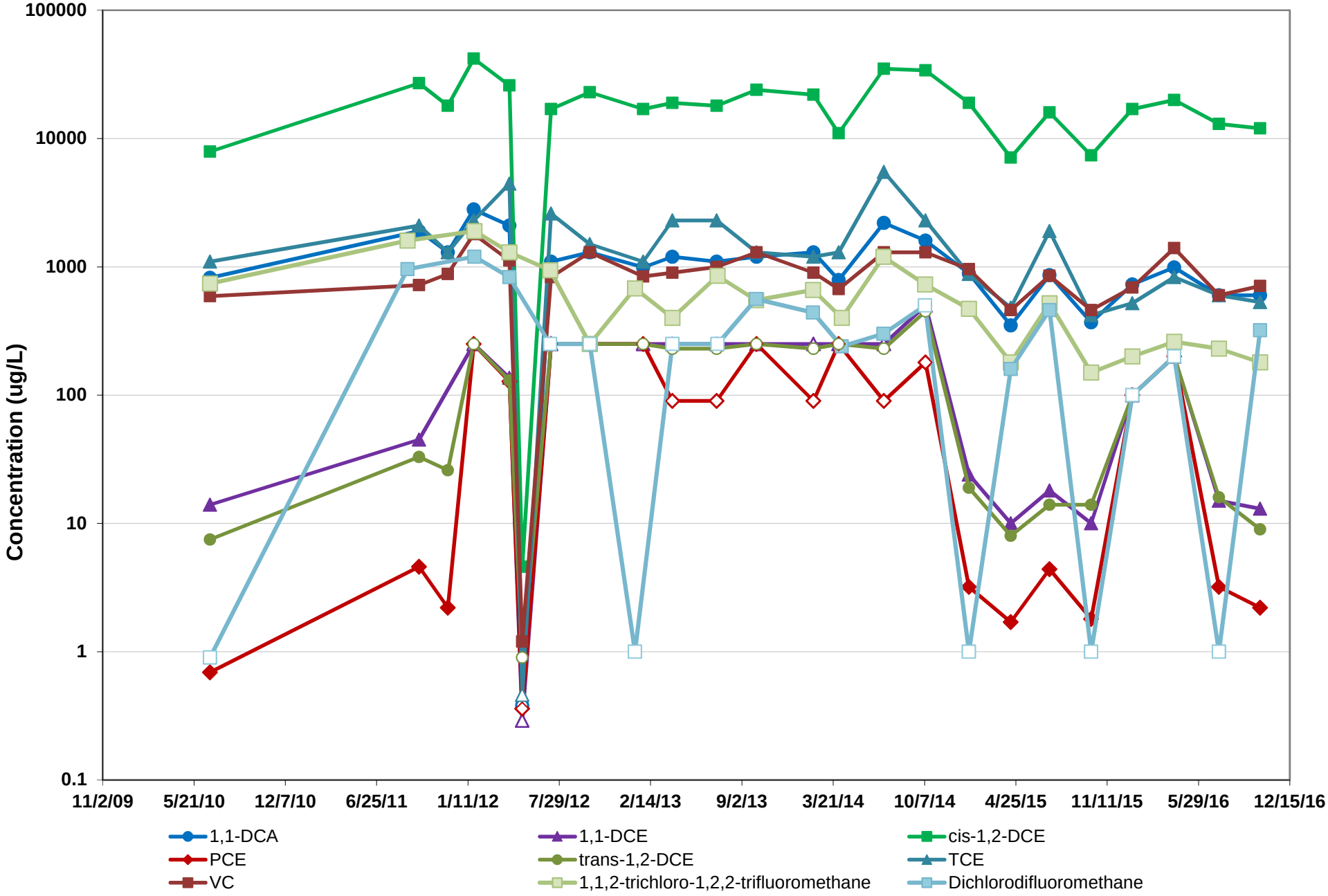
Appendix D: 2016 Annual Groundwater Monitoring Report

Figure D-5a: Well A1-PZ-2 Groundwater Volatile Organic Compound Concentration Trends
Former Lockheed Martin Facility, Utica, New York

Stantec

Non-detect sample results are represented with open symbols.

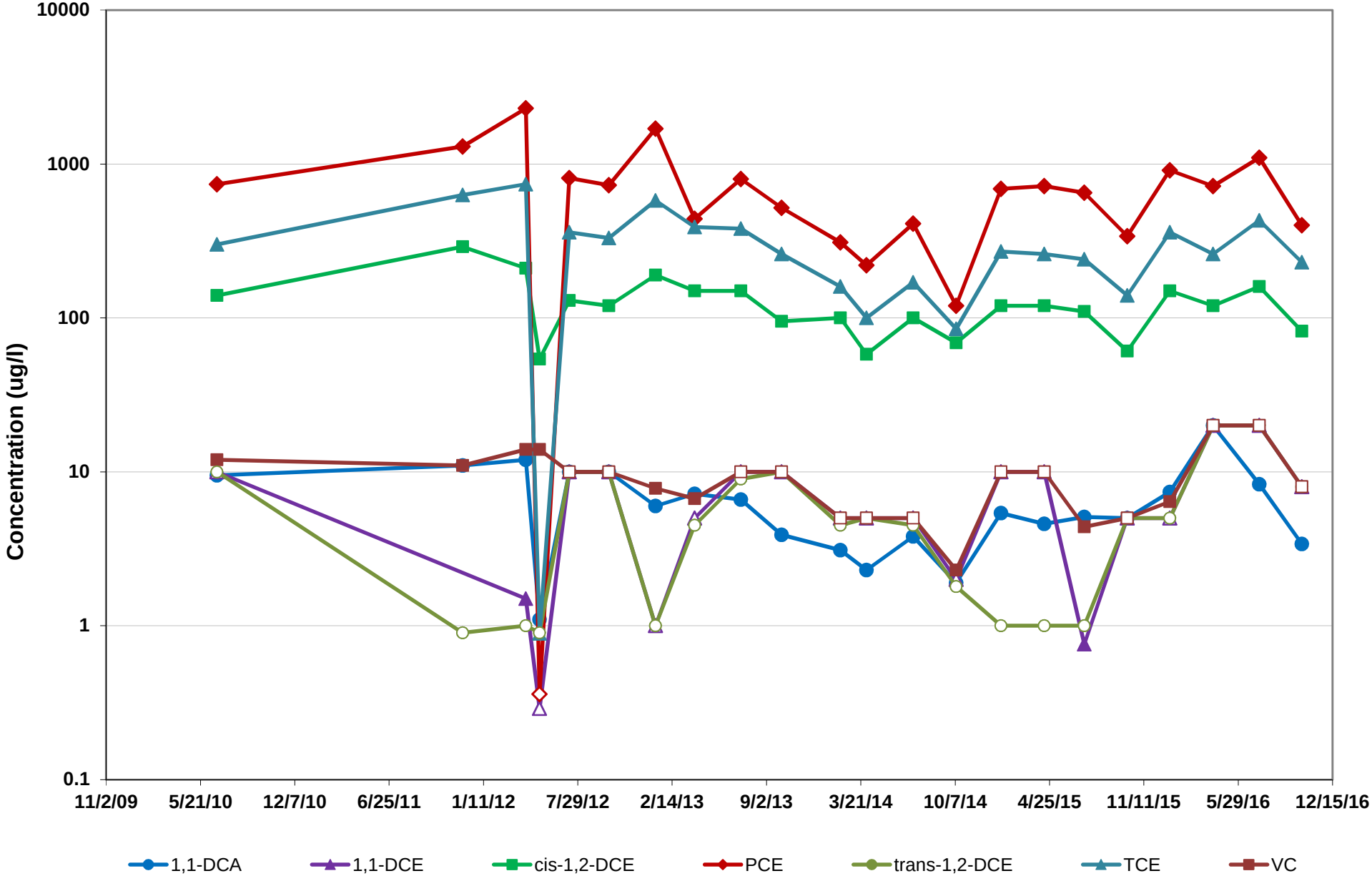
Figure D-5b: Well A2-PZ-1 Groundwater Volatile Organic Compound Concentration Trends
Former Lockheed Martin Facility, Utica, New York



Stantec

Non-detect sample results are represented with open symbols.

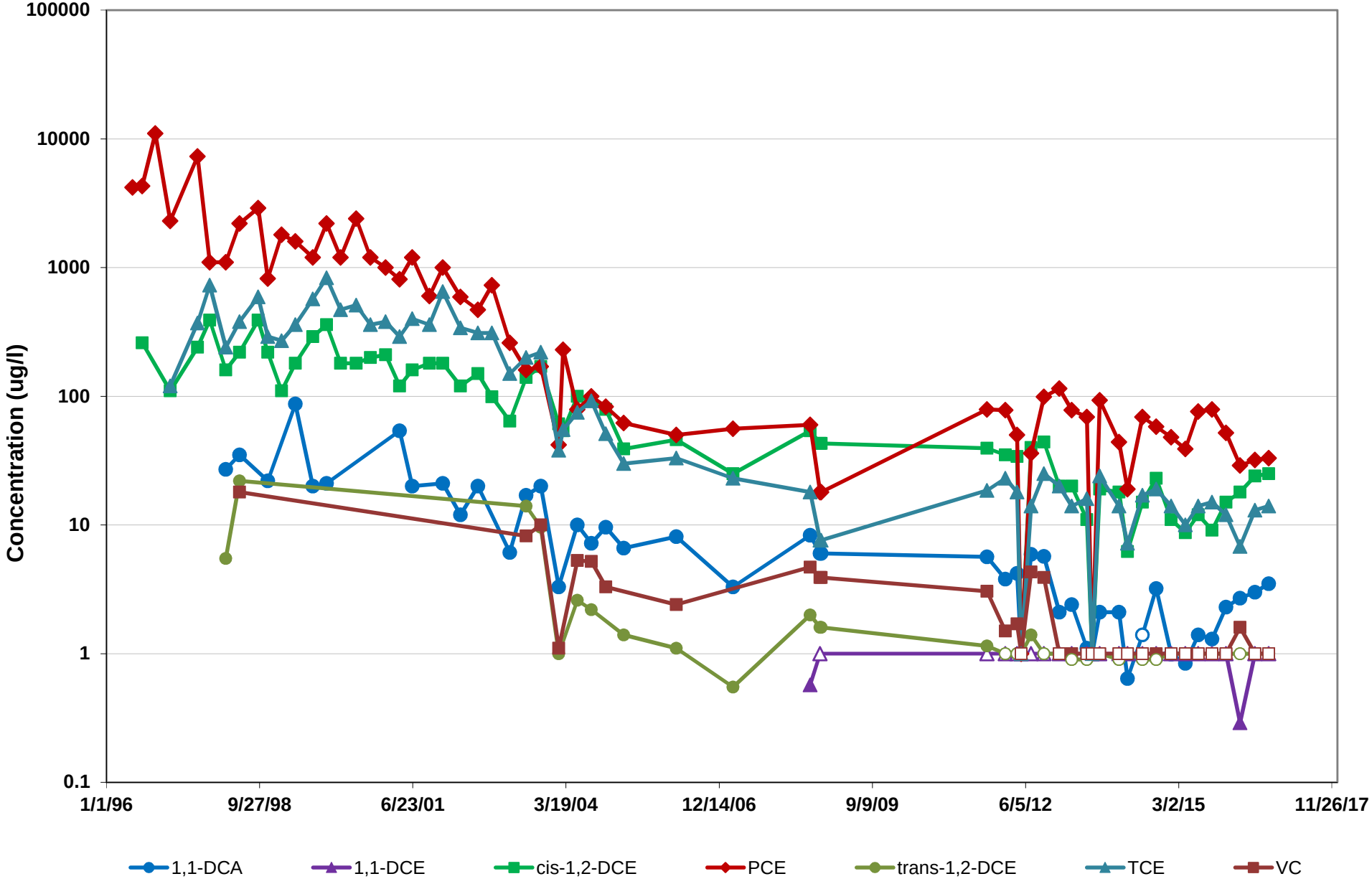
Figure D-5c: Well A2-PZ-2 Groundwater Volatile Organic Compound Concentration Trends
Former Lockheed Martin Facility, Utica, New York



Stantec

Non-detect sample results are represented with open symbols.

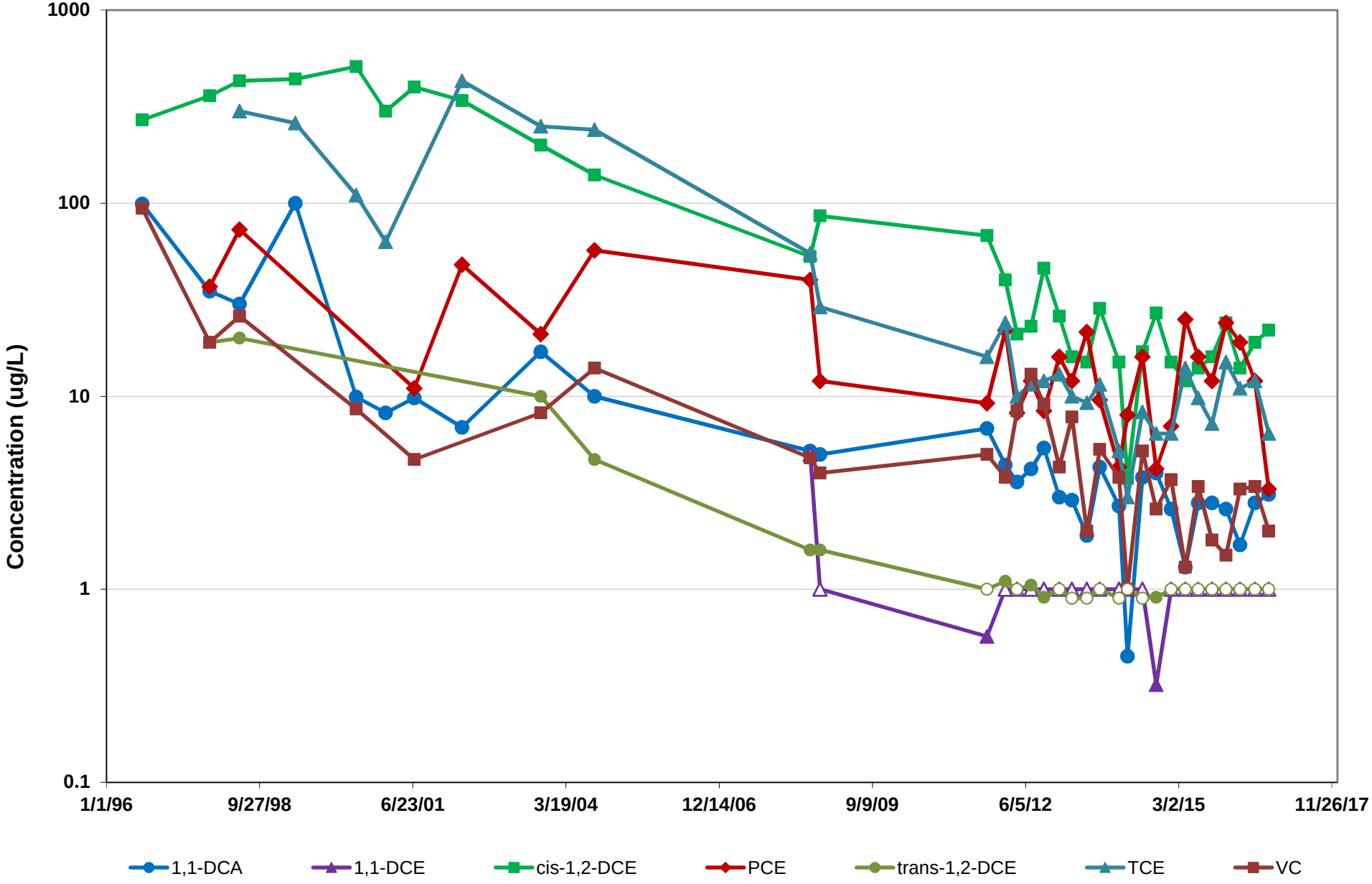
Figure D-5d: Well MW-1 Groundwater Volatile Organic Compound Concentration Trends
Former Lockheed Martin Facility, Utica, New York



Stantec

Non-detect sample results are represented with open symbols.

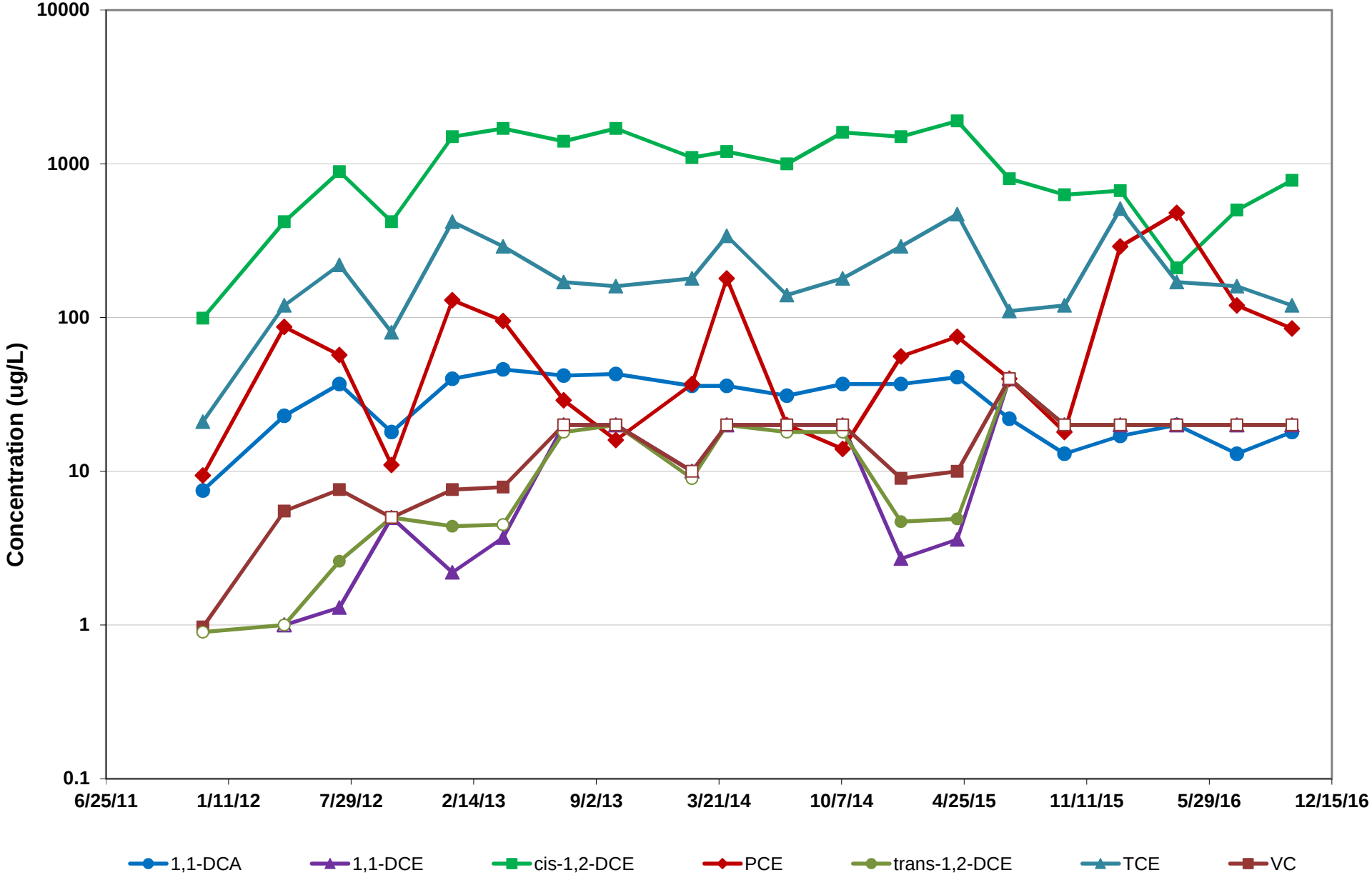
Figure D-5e: Well MW-3 Groundwater Volatile Organic Compound Concentration Trends
Former Lockheed Martin Facility, Utica, New York



Stantec

Non-detect sample results are represented with open symbols.

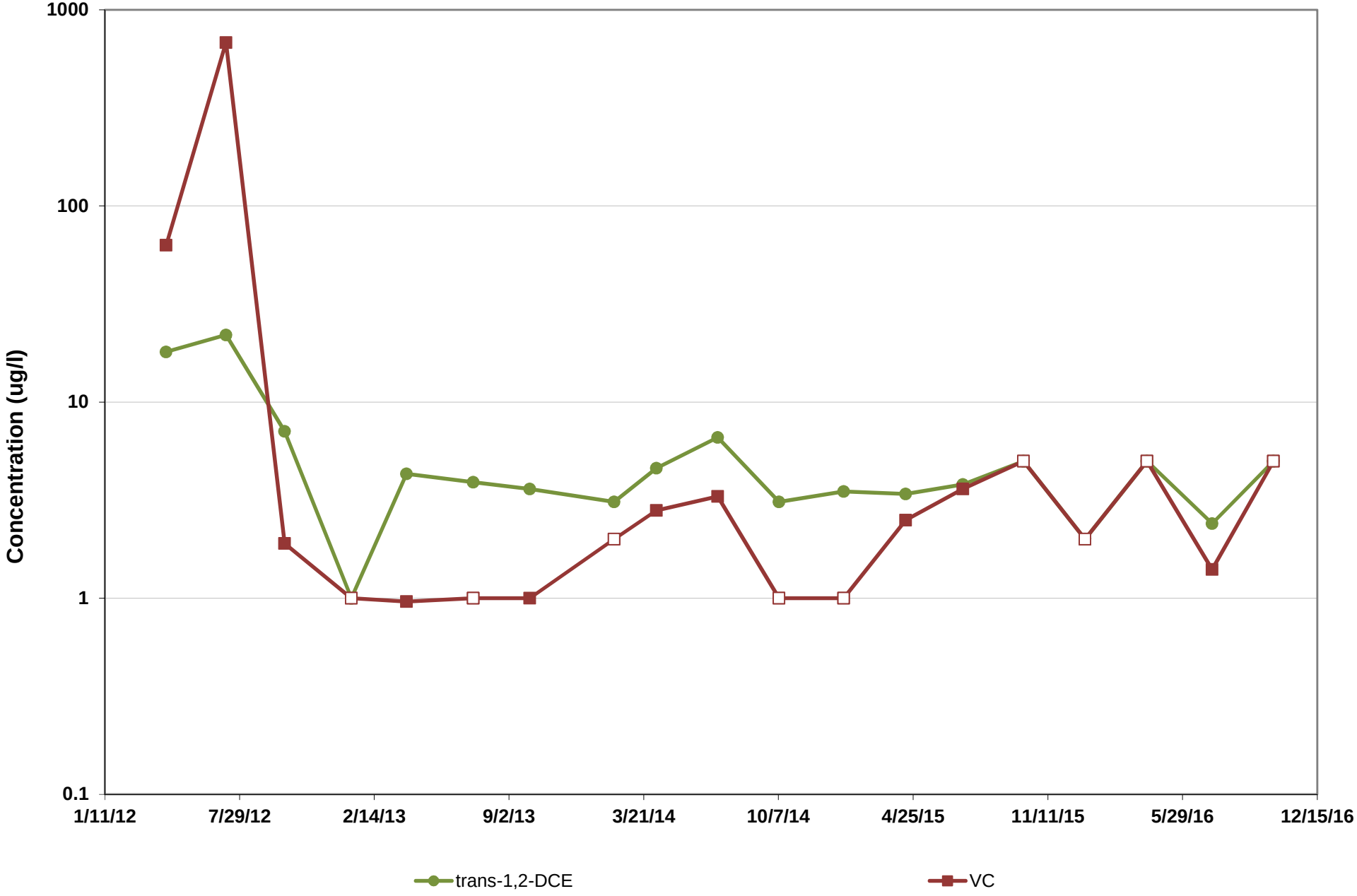
Figure D-5f: Well MW-18 Groundwater Volatile Organic Compound Concentration Trends
Former Lockheed Martin Facility, Utica, New York



Stantec

Non-detect sample results are represented with open symbols.

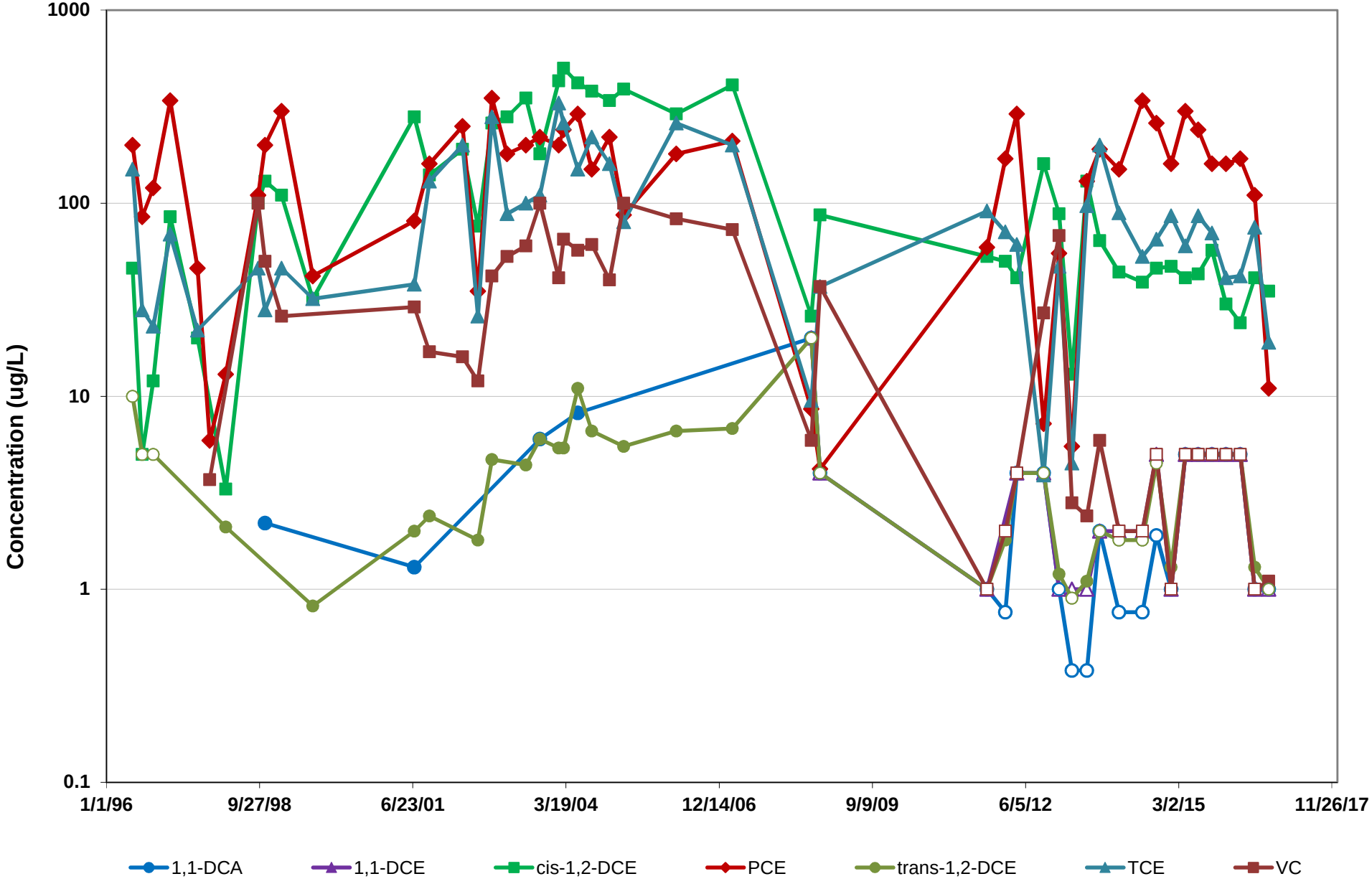
Figure D-5g: Well MW-20 Groundwater Volatile Organic Compound Concentration Trends
Former Lockheed Martin Facility, Utica, New York



Stantec

Non-detect sample results are represented with open symbols.

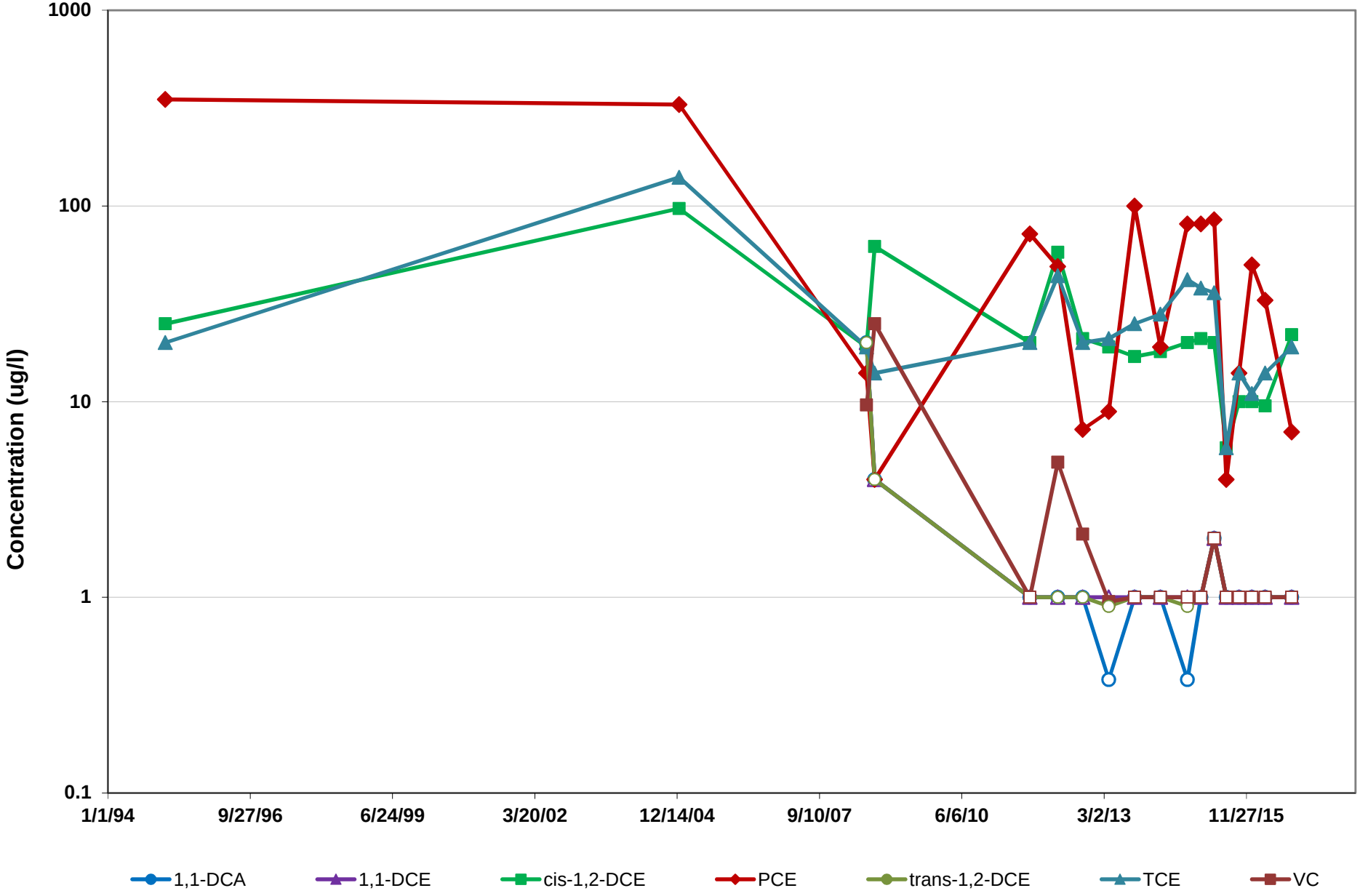
Figure D-5h: Well PZ-5 Groundwater Volatile Organic Compound Concentration Trends
Former Lockheed Martin Facility, Utica, New York



Stantec

Non-detect sample results are represented with open symbols.

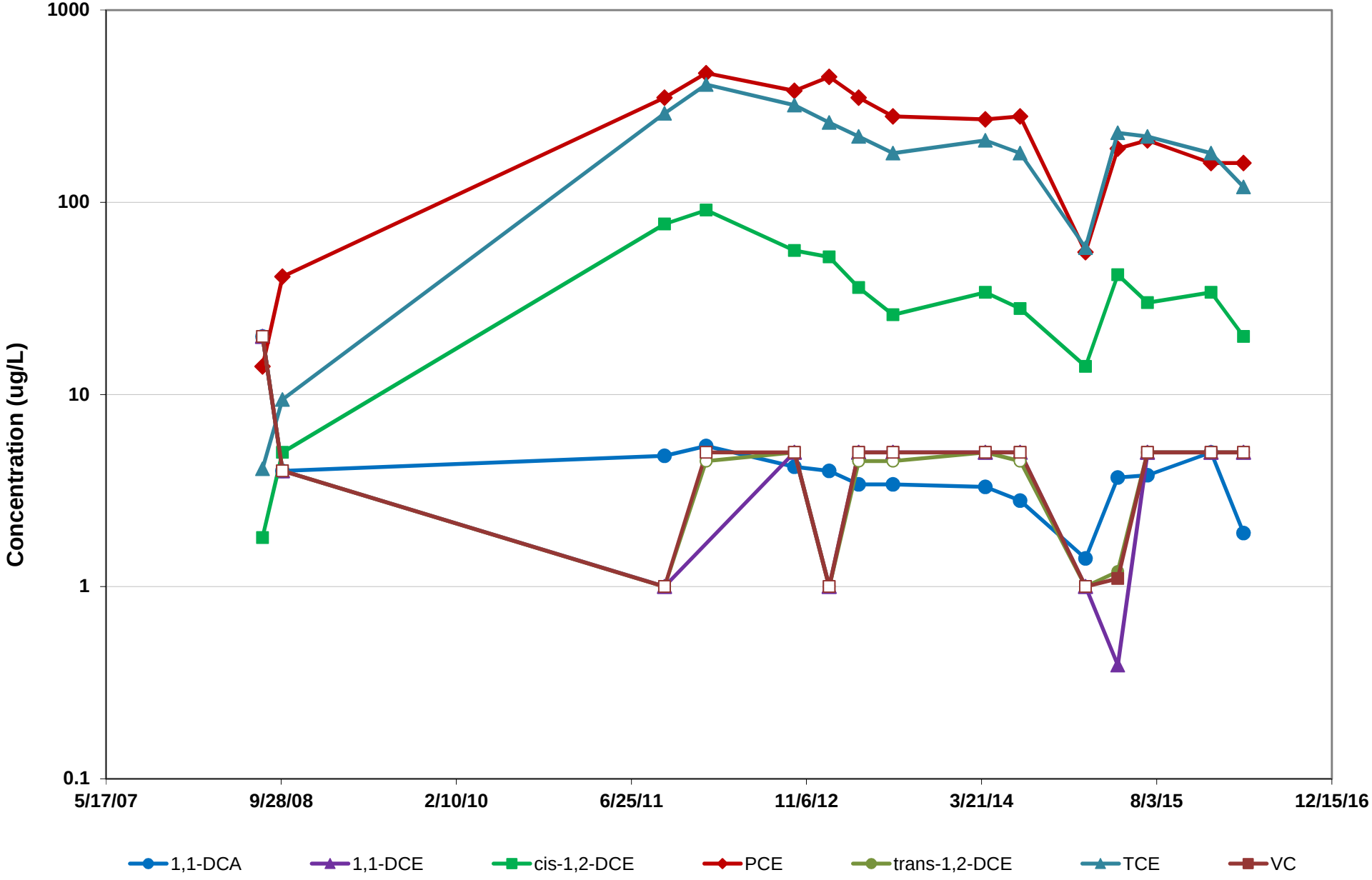
Figure D-5i: Well PZ-6 Groundwater Volatile Organic Compound Concentration Trends
Former Lockheed Martin Facility, Utica, New York



Stantec

Non-detect sample results are represented with open symbols.

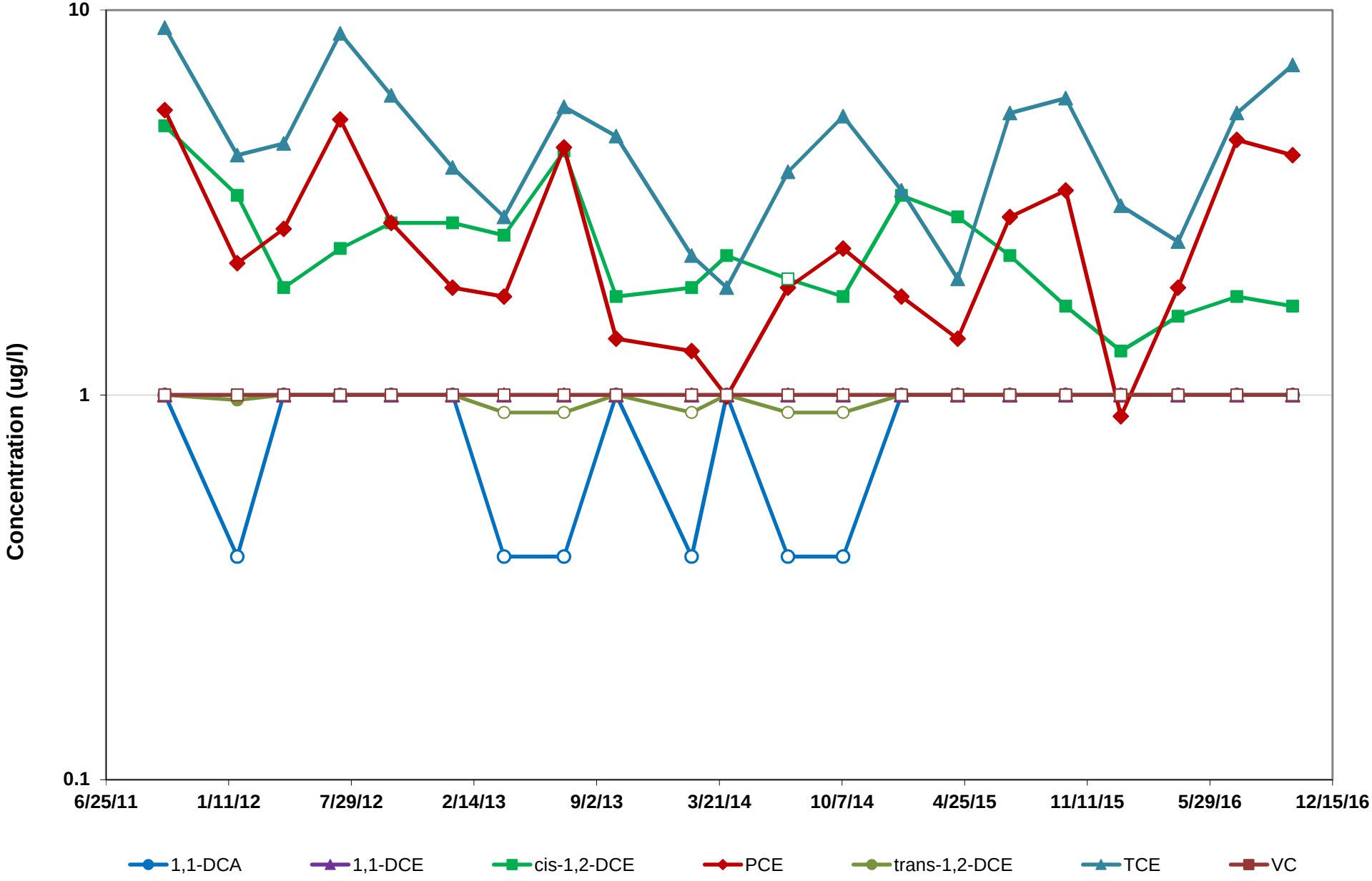
Figure D-5j: Well PZ-8 Groundwater Volatile Organic Compound Concentration Trends
Former Lockheed Martin Facility, Utica, New York



Stantec

Non-detect sample results are represented with open symbols.

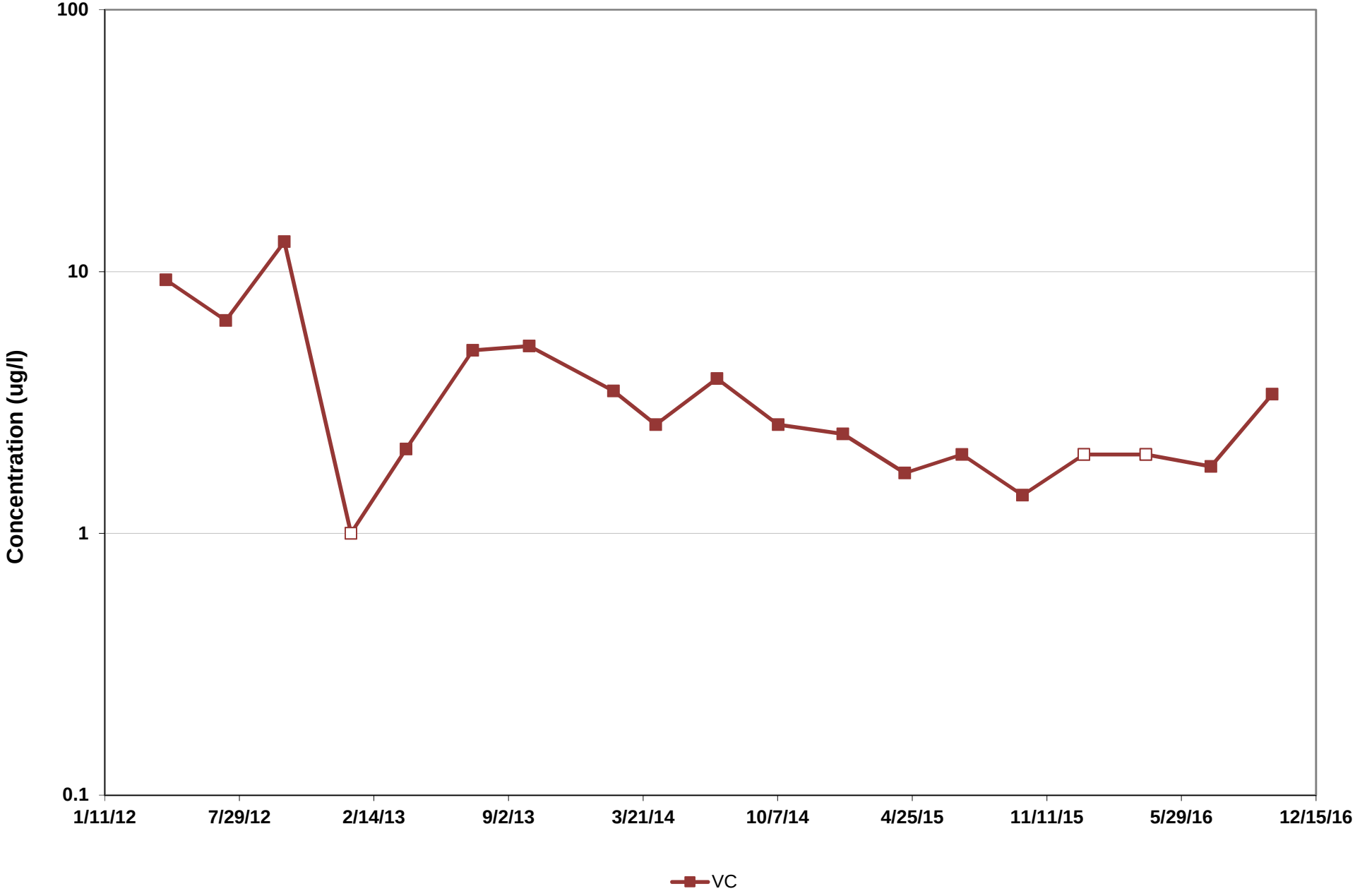
Figure D-5k: Well PZ-11R Groundwater Volatile Organic Compound Concentration Trends
Former Lockheed Martin Facility, Utica, New York



Stantec

Non-detect sample results are represented with open symbols.

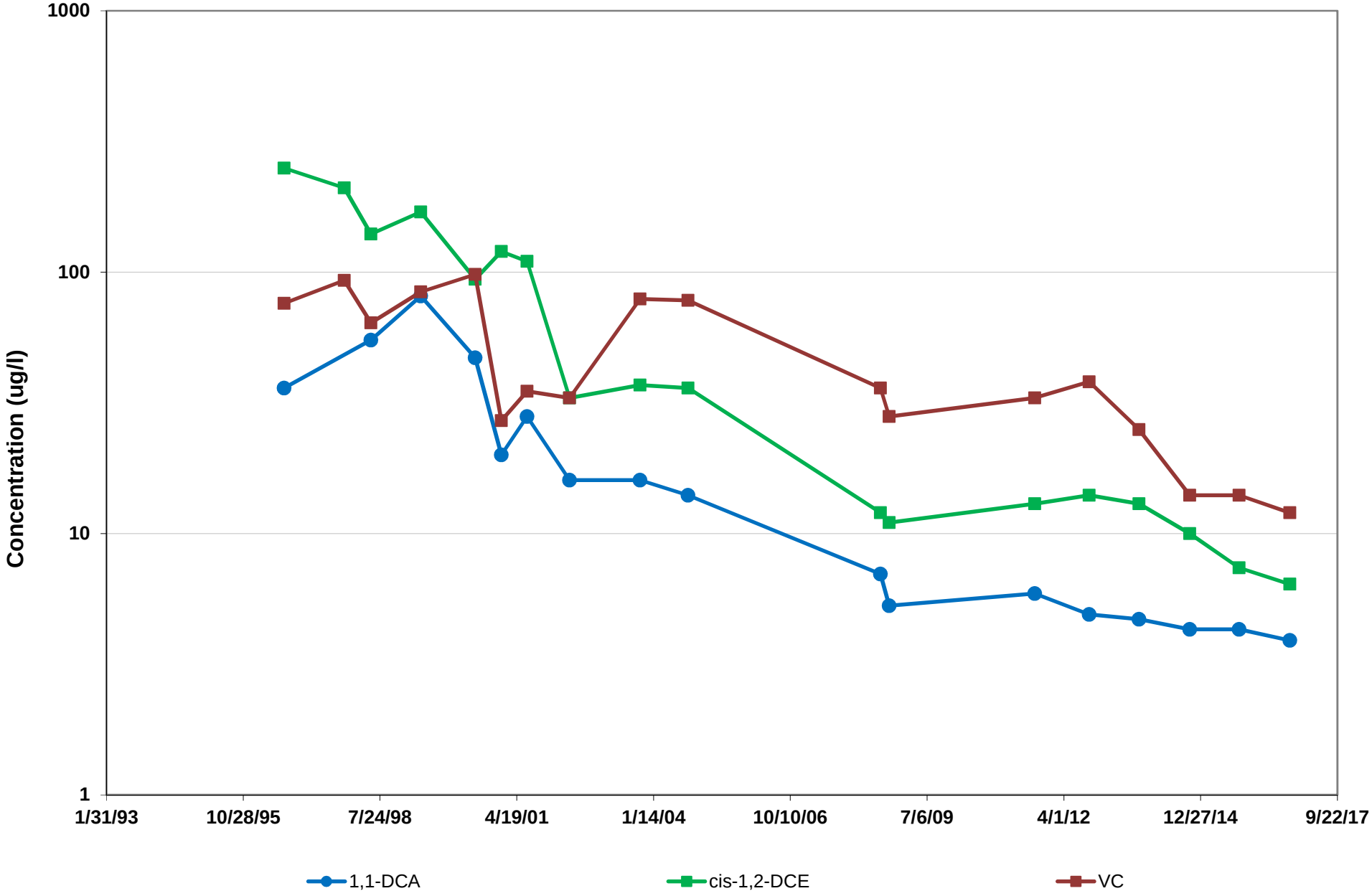
Figure D-5l: Well MW-21 Groundwater Volatile Organic Compound Concentration Trends
Former Lockheed Martin Facility, Utica, New York



Stantec

Non-detect sample results are represented with open symbols.

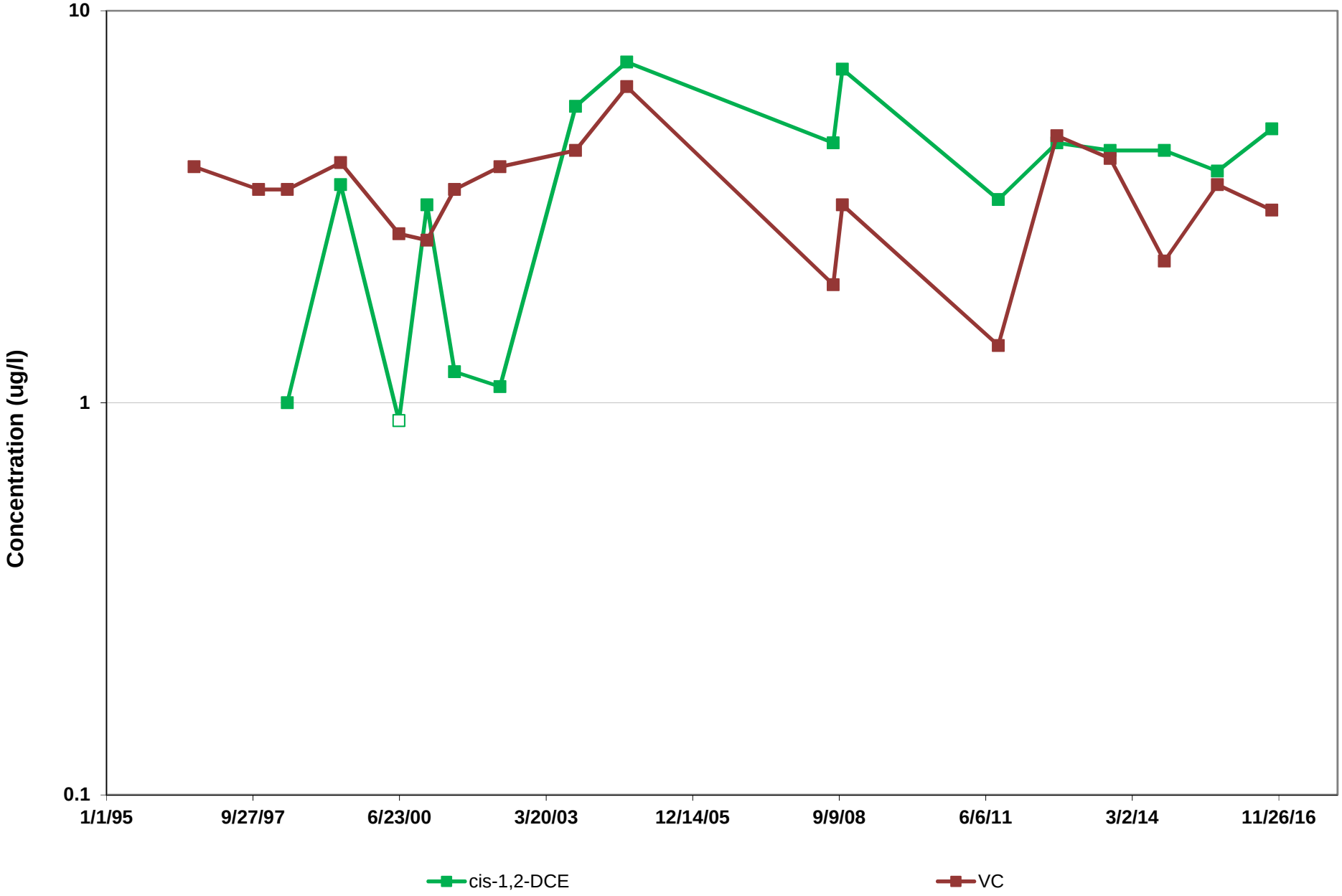
Figure D-5m: Well MW-2 Groundwater Volatile Organic Compound Concentration Trends
Former Lockheed Martin Facility, Utica, New York



Stantec

Non-detect sample results are represented with open symbols.

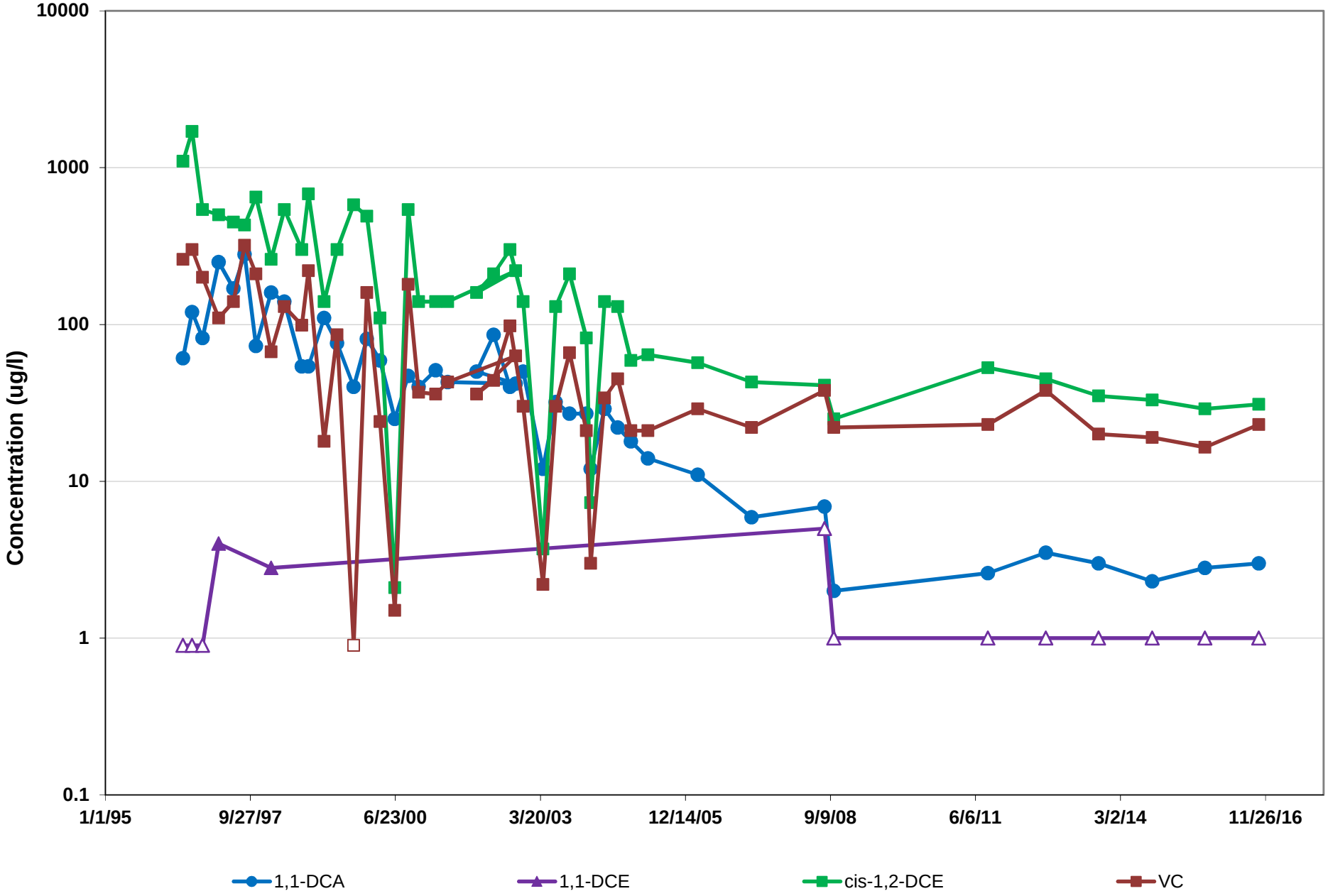
Figure D-5n: Well MW-4 Groundwater Volatile Organic Compound Concentration Trends
Former Lockheed Martin Facility, Utica, New York



Stantec

Non-detect sample results are represented with open symbols.

Figure D-5o: Well MW-10 Groundwater Volatile Organic Compound Concentration Trends
Former Lockheed Martin Facility, Utica, New York



Stantec

Non-detect sample results are represented with open symbols.

APPENDICES

Appendix D-1

Historical Groundwater Data, 1996-2008

Appendix D-1
Historical Groundwater Data, 1996 to 2008

Former Lockheed Martin French Road Facility
Utica, New York

Location		Tetrachloroethene	Trichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride	1,1,1-Trichloroethane	1,1-Dichloroethane	Benzene	Methylene Chloride	Chloroform	Chloroethane	Toluene	Chlorobenzene
	NYSDEC TOGS	5	5	5	5	2	5	5	1	5	7	5	5	5
MW-1	Jun-96	4200	0	0	0	--	--	0	0	0	0	--	--	--
	Aug-96	4300	0	0	260	--	--	0	0	0	0	--	--	--
	Nov-96	11000	0	0	0	--	--	0	0	0	0	--	--	--
	Feb-97	2300	120	0	110	--	--	0	0	62	73	--	--	--
	Jun-97	--	--	--	--	--	--	--	--	--	--	5000	--	--
	Aug-97	7300	370	--	240	--	--	--	--	--	--	--	--	--
	Nov-97	1100	730	--	390	--	--	--	--	--	--	--	--	--
	Feb-98	1100	240	5.5	160	--	--	27	0.24	6.6	0	--	--	--
	May-98	2200	380	22	220	18	--	35	0	--	--	--	--	--
	Sep-98	2900	590	0	390	0	--	0	0	--	--	--	--	--
	Nov-98	820	290	0	220	0	--	22	0	--	--	--	--	--
	Feb-99	1800	270	0	110	0	--	0	0	--	--	--	--	--
	May-99	1600	360	0	180	0	--	87	0	--	--	--	--	--
	Sep-99	1200	570	0	290	0	--	20	0.48	--	--	--	--	--
	Dec-99	2200	830	0	360	0	--	21	0.36	--	--	--	--	--
	Mar-00	1200	470	0	180	0	--	0	0	--	--	--	--	--
	Jun-00	2400	510	0	180	0	--	0	0	--	--	--	--	--
	Sep-00	1200	360	0	200	0	0	0	0	--	--	0	--	--
	Dec-00	1000	380	0	210	0	0	0	0	--	--	0	--	--
	Mar-01	810	290	0	120	0	0	54	--	--	--	0	--	--
	Jun-01	1200	400	--	160	--	--	20	--	--	--	--	--	--
	Oct-01	600	360	0	180	0		17	0	--	--	--	--	--
	Jan-02	1000	650	0	180	0	0	21	0	0	0	0	--	--
	May-02	590	340	--	120	--	--	12	--	--	--	--	--	--
	Aug-02	470	310	0	150	0	0	20	0	--	--	0	--	--
	Nov-02	730	310	0	99	0	0	0	0	--	--	0	--	--
	Mar-03	260	150	0	64	0	0	6.1	0	--	--	0	--	--
	Jul-03	160	200	14	140	8.2	0	17	0	--	--	0	--	--
	Oct-03	170	220	9.6	170	10	0	20	0	--	--	0	--	--
	Feb-04	42	38	1.00	61.00	1.10	0	3.30	0	--	--	0	--	--
	Mar-04	230	55	0	54	0	0	0	0	--	--	0	--	--
	Jun-04	79	75	2.6	100	5.3	0	10	0	--	--	0	--	--
	Sep-04	100	92	2.2	92	5.2	0	7.2	0	--	--	0	--	--
	Dec-04	83	51	0	79	3.3	0	9.6	0	--	--	0	--	--
	Mar-05	62	30	1.4	39	0	0	6.6	0	--	--	0	--	--
	Mar-06	50	33	1.1	46	2.4	0	8.1	0	--	--	0	--	--
	Mar-07	56	23	0.55	25	0	--	3.3	0	--	--	--	--	--
	Jul-08	60	18	2	54	4.7	0	8.3	--	--	--	--	--	--
	Oct-08	18	7.6	1.6	43	3.9	0	6	--	--	--	--	--	--
MW-2	Aug-96	0	0	17	250	76	--	36	--	--	--	--	--	--
	Nov-97	25	47	--	210	93	--	--	--	--	--	--	--	--
	May-98	48	63	17	140	64	2.5	55	0	--	--	2.1	--	--
	May-99	0	68	0	170	84	0	81	0.74	--	--	0	--	--
	Jun-00	0	0	4.3	94	98	0	47	0	--	--	0	--	--
	Dec-00	0	29	2.7	120	27	0	20	0	--	--	0	4.1	--
	Jul-01	--	--	5.4	110	35	--	28	--	--	--	--	--	--
	May-02	--	1.8	2.9	33	33	--	16	--	--	--	--	--	--
	Oct-03	--	0.39	5	37	79	--	16	--	--	--	--	--	--
	Sep-04	0	0	3.4	36	78	0	14	0	--	--	--	0	--
	Jul-08	0	0.62	2.1	12	36	0.57	7	--	--	--	--	--	--
	Oct-08	0	0	2.1	11	28	0	5.3	--	--	--	--	--	--
MW-3	Aug-96	0	--	0	270	94	--	99	--	--	--	--	--	--
	Nov-97	37	--	19	360	19	--	35	--	--	--	--	--	--
	May-98	73	300	20	430	26	--	30	0	--	--	--	--	0.36
	May-99	0	260	0	440	0	--	100	0.71	--	--	--	--	0.49
	Jun-00	0	110	0	510	8.6	--	9.9	0	--	--	--	--	0
	Dec-00	0	63	0	300	0	--	8.2	0	--	--	--	--	0
	Jul-01	11	--	--	400	4.7	--	9.8	--	--	--	--	--	--
	May-02	48	430	0	340	0	--	6.9	0	--	--	--	--	0
	Oct-03	21	250	10	200	8.2	--	17	--	--	--	--	--	--
	Sep-04	57	240	4.7	140	14	--	10	0	--	--	--	--	0
	Jul-08	40	55	1.6	53	4.8	--	5.2	--	--	--	--	--	--
	Oct-08	12	29	1.6	86	4	--	5	0	--	--	--	--	0

Appendix D-1
Historical Groundwater Data, 1996 to 2008

Former Lockheed Martin French Road Facility
Utica, New York

Location		Tetrachloroethene	Trichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride	1,1,1-Trichloroethane	1,1-Dichloroethane	Benzene	Methylene Chloride	Chloroform	Chloroethane	Toluene	Chlorobenzene
	NYSDEC TOGS	5	5	5	5	2	5	5	1	5	7	5	5	5
MW-4	Aug-96	--	--	--	--	**4**	--	--	--	--	--	--	--	--
	Nov-97	--	--	--	--	**3.5**	--	--	--	--	--	--	--	--
	May-98	--	0	--	1	**3.5**	--	0	--	--	--	--	--	--
	May-99	--	1.1	--	3.6	**4.1**	--	1.3	--	--	--	--	--	--
	Jun-00	--	0	--	0	**2.7**	--	0	--	--	--	--	--	--
	Dec-00	--	0	--	3.2	**2.6**	--	0.55	--	--	--	--	2.6	--
	Jul-01	--	--	--	1.2	**3.5**	--	--	--	--	--	--	--	--
	May-02	--	0	--	1.1	**4**	--	0	--	--	--	--	0	--
	Oct-03	--	0	--	**5.7**	**4.4**	--	1.4	--	--	--	--	--	--
	Sep-04	--	0	--	**7.4**	**6.4**	--	1.2	--	--	--	--	0	--
	Jul-08	--	0	--	4.6	**2**	--	1.1	--	--	--	--	--	--
	Oct-08	--	0	--	**7.1**	**3.2**	--	1.9	--	--	--	--	0	--
MW-9	May-98	--	--	--	0.29	**9.8**	--	0	--	--	--	--	--	--
	May-99	--	--	--	1.1	**2.1**	--	1	--	--	--	--	--	--
	Jun-00	--	--	--	0.22	1.1	--	0	--	--	--	--	--	--
	Jul-01	--	--	--	0.29	**2.7**	--	0.32	--	--	--	--	--	--
	May-02	--	--	--	0.52	**4.4**	--	0.22	--	--	--	--	--	--
	Oct-03	--	--	0.42	1.8	0.58	--	0.92	--	--	--	1.4	--	--
	Sep-04	--	--	0	2	1.4	--	0.9	--	--	--	0.62	--	--
	Jul-08	--	--	1.2	2.5	**7.8**	--	0.88	--	--	--	--	--	--
	Oct-08	0	0	0	0	0	0	0	--	--	--	--	--	--
MW-10	Jun-96	--	0	**67**	**1100**	**260**	0	**61**	--	0	0	0	--	--
	Aug-96	--	0	0	**1700**	**300**	0	**120**	--	0	0	0	--	--
	Nov-96	--	0	**37**	**540**	**200**	0	**82**	--	0	0	0	--	--
	Feb-97	--	**12**	**42**	**500**	**110**	**16**	**250**	--	**14**	**9**	**20**	--	--
	Jun-97	--	**12**	**30**	**450**	**140**	--	**170**	--	--	--	--	--	--
	Aug-97	--	0	**27**	**430**	**320**	0	**280**	--	--	--	0	--	--
	Nov-97	--	--	**39**	**650**	**210**	--	**73**	--	--	--	--	--	--
	Feb-98	--	1.9	**20**	**260**	**67**	0	**160**	--	2.9	0	**18**	--	--
	May-98	--	3	**40**	**540**	**130**	4.5	**140**	--	--	--	**14**	--	--
	Sep-98	--	0	**20**	**300**	**99**	0	**54**	--	--	--	0	--	--
	Nov-98	--	0	**39**	**680**	**220**	0	**54**	--	--	--	0	--	--
	Feb-99	--	0	**7.1**	**140**	**18**	5	**110**	--	--	--	**14**	--	--
	May-99	--	**11**	**22**	**300**	**86**	0	**76**	--	--	--	**11**	--	--
	Sep-99	--	0	**23**	**580**	0	0	**40**	--	--	--	0	--	--
	Dec-99	--	0	**21**	**490**	**160**	0	**81**	--	--	--	0	--	--
	Mar-00	--	0	**7.8**	**110**	**24**	0	**59**	--	--	--	0	--	--
	Jun-00	--	0	0	2.1	1.5	0	**25**	--	--	--	0	--	--
	Sep-00	--	0	**24**	**540**	**180**	0	**47**	--	--	--	0	--	--
	Dec-00	--	0	**7.4**	**140**	**37**	0	**40**	--	--	--	2.3	--	--
	Mar-01	--	0	**12**	**140**	**36**	2.4	**51**	--	--	--	0	--	--
	Jun-01	--	--	**7.5**	**140**	**43**	--	**43**	--	--	--		--	--
	Oct-02	--	2.4	**14**	**220**	**63**	0	**42**	--	--	--	0	--	--
	Jan-02	--	0	**9.8**	**160**	**36**	0	**50**	--	--	--	0	--	--
	May-02	--	2.9	**10**	**210**	**44**	0	**86**	--	--	--		--	--
	Aug-02	--	**6.2**	**17**	**300**	**98**	0	**40**	--	--	--	0	--	--
	Nov-02	--	3.6	**8.2**	**140**	**30**	0	**50**	--	--	--	0	--	--
	Apr-03	--	0	0.39	3.7	**2.2**	0	**12**	--	--	--	0	--	--
	Jul-03	--	4.2	**7.5**	**130**	**30**	0	**32**	--	--	--	0	--	--
	Oct-03	--	**6.2**	11	**210**	**66**	--	**27**	--	--	--		--	--
	Feb-04	--	4.50	4.40	**82**	**21**	0	**27**	--	--	--	0	--	--
MW-10	Mar-04	--	0	0.64	**7.3**	**3**	0	**12**	--	--	--	0	--	--
	Jun-04	--	**11**	10	**140**	**34**	0	**29**	--	--	--	0	--	--
	Sep-04	--	**7.2**	**6.2**	**130**	**45**	0	**22**	--	--	--	0	--	--
	Dec-04	--	2.6	3.1	**59**	**21**	0	**18**	--	--	--	0	--	--
	Mar-05	--	3.5	3.3	**64**	**21**	0	**14**	--	--	--	0	--	--
	Mar-06	--	3.1	3.8	**57**	**29**	0	**11**	--	--	--	0	--	--
	Mar-07	--	1.9	2.8	**43**	**22**	0	**5.9**	--	--	--	0	--	--
	Jul-08	--	3.9	3.3	**41**	**38**	--	**6.9**	--	--	--	--	--	--
	Oct-08	--	1.7	1.6	**25**	**22**	--	2	--	--	--	--	--	--

Appendix D-1
Historical Groundwater Data, 1996 to 2008

Former Lockheed Martin French Road Facility
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Location		Tetrachloroethene	Trichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride	1,1,1-Trichloroethane	1,1-Dichloroethane	Benzene	Methylene Chloride	Chloroform	Chloroethane	Toluene	Chlorobenzene
	NYSDEC TOGS	5	5	5	5	2	5	5	1	5	7	5	5	5
PZ-2	Jun-96	0	0	--	**28**	**14**	--	0	--	0	--	--	--	--
	Aug-96	0	0	--	0	0	--	0	--	0	--	--	--	--
	Nov-96	0	0	--	**15**	**11**	--	0	--	0	--	--	--	--
	Feb-97	0	1.2	--	**12**	**11**	--	0	--	4.1	--	--	--	--
	Jun-97	--	--	--	**16**	**17**	--	--	--	--	--	--	--	--
	Aug-97	**12**	**6**	--	**9**	**7**	--	--	--	--	--	--	--	--
	Nov-97	**6**		--	--	**4.3**	--	--	--	--	--	--	--	--
	Feb-98	**52**	**13**	--	**20**	**7.3**	--	0.44	--	0.68	--			0
	May-98	1.3	1.2	1.2	**14**	**14**	--	0.28	--	0	--	0.8	0	0
	Sep-98	0	0	0	2	0	--	0	--	0	--	0	0	1.9
	Nov-98	0.78	0.53	0	0.96	0.75	--	0	--	0	--	0	1.9	**9.2**
	Feb-99	1.3	1.2	0	2	**2.2**	--	0.21	--	0	--	0	0	2.8
	May-99	1	1.4	0.22	1.6	1.3	--	1.1	--	0	--	0	0	6
	Sep-99	0	0.28	0.2	1.8	1.7	--	0	--	0	--	0	0	4.5
	Dec-99	0.24	1.2	0	2	1.9	--	0	--	0	--	0	0	0.48
	Mar-00	0	0	0	**6**	**2**	--	0	--	0	--	0	0	1.1
	Jun-00	**13**	0.51	0	1.4	0	--	0	--	0	--	0	**7**	0
	Sep-00	0.2	0	0	2.5	1.6	--	0	--	0	--	0	0.29	2.7
	Dec-00	**8.5**	3.5	0	1.8	0.7	--	0	--	0	--	0	0	0.63
	Mar-01	0.35	1.6	0	4.6	**3.4**	--	--	--	--	--		1.5	0.77
	Jun-01	0.68	1.4	--	4.8	**2**	--	--	--	--	--		0.21	1.3
	Oct-01	0	0	0	0.47	0.77	--	0	--	--	--	0	0.2	**5.4**
	Jan-02	0	0.34	0	1.4	1.6	--	0	--	--	--	0	--	1.6
	May-02	0.27	0	0	0.3	0.51	--	0	--	--	--		0.25	0.32
	Aug-02	0.27	0.25	0	0.37	0.3	--	0	--	--	--	0	1.8	**7.4**
	Nov-02	0	0.82	0.21	18	**3.8**	--	0	--	--	--	0	0	2.6
	Mar-03	0.67	0.61	0	10	**3.6**	--	0	--	--	--	0	0.21	1.2
	Jul-03	1.7	0.55	0	**5.1**	**3**	--	0	--	--	--	0	0	1
	Oct-03	0.2	0.25	0.44	0.78	0.63	--	0	--	--	--	0	--	**9.5**
	Feb-04	0.61	1.20	0	3.80	1.40	--	0	--	--	--	0	0.00	0.86
	Mar-04	0.92	0	0	0	0.87	--	0	--	--	--	0	0	0.25
	Jun-04	0.54	0	0	1.3	1.1	--	0	--	--	--	0	0	0.5
	Sep-04	0	0.22	0	1.2	0.97	--	0	--	--	--	0	0	2.5
	Dec-04	0	0.24	0	1.5	0.89	--	0	--	--	--	0	0	0.76
	Mar-05		0.21	0	2	1.9	--	0	--	--	--	0	0	0.33
	Mar-06	1	0	0	0	0	--	0	--	--	--	0	0	0
	Jul-08	0.43	0	0	0	0	--	--	--	--	--	--	--	--
	Oct-08	0.52	0	--	0	0	--	0	--	--	--	--	--	--
PZ-4	Aug-96	--	--	--	0	--	--	--	--	--	12	--	--	--
	Nov-97	--	--	--	**8.1**	--	--	--	--	--	--	--	--	--
	May-98	4.4	0.43	--	4.9	--	0.76	1.2	--	--	--	--	--	--
	May-99	2.8	1.2	--	3.4	--	1.4	1.4	--	--	--	--	--	--
	Jun-00	1.9	0	--	3	--	0.55	1	--	--	--	--	**42**	--
	Dec-00	0	0	--	2.2	--	0	0	--	--	--	--	0	--
	Jul-01	0.69	--	--	1.6	--	--	0.52	--	--	--	--	--	--
	May-02	1.8	0	--	**9.2**	--	0.68	1.6	--	--	--	--	0.93	--
	Oct-03	0.35	0	--	1.6	--	0	1	--	--	--	--	--	--
	Sep-04	0.22	0	--	1.3	--	0	0.52	--	--	--	--	0	--
	Jul-08	0.8	0	--	2.7	--	0	0.9	--	--	--	--	--	--

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Location		Tetrachloroethene	Trichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride	1,1,1-Trichloroethane	1,1-Dichloroethane	Benzene	Methylene Chloride	Chloroform	Chloroethane	Toluene	Chlorobenzene
	NYSDEC TOGS	5	5	5	5	2	5	5	1	5	7	5	5	5
PZ-5	Jun-96	**200**	**150**	<10	**46**	0	--	0	--	<50	--	--	0	0
	Aug-96	**85**	**28**	<5	**5**	0	--	0	16	<25	13	--	0	0
	Nov-96	**120**	**23**	<5	**12**	0	--	0	0	<25	--	--	**8**	0
	Feb-97	**340**	**69**	--	**85**	--	--	--	0	--	6.7	--	0	--
	Jun-97	--	--	--	--	--	--	--	--	--	--	--	--	--
	Aug-97	**46**	**22**	--	**20**		--	--	--	--	--	--	--	--
	Nov-97	**5.9**	--	--	--	**3.7**	--	--	--	--	--	--	--	--
	Feb-98	**13**	--	2.1	3.3	0	--	0	0	3.1	--	--	0	**8.7**
	May-98	--	--	--	--	--	--	--	--	--	--	--	--	--
	Sep-98	**110**	**46**	0	**100**	**100**	--	0	0	--	--	--	0	0
	Nov-98	**200**	**28**	0	**130**	**50**	--	2.2	0	--	--	--	0	0
	Feb-99	**300**	**46**	0	**110**	**26**	--	0	0	--	--	--	0	0
	May-99	--	--	--	--	--	--	--	--	--	--	--	--	--
	Sep-99	**42**	**32**	0.82	**32**	0	--	0	0	--	--	--	0	0
	Dec-99	--	--	--	--	--	--	--	--	--	--	--	--	--
	Mar-00	--	--	--	--	--	--	--	--	--	--	--	--	--
	Jun-00	--	--	--	--	--	--	--	--	--	--	--	--	--
	Sep-00	--	--	--	--	--	--	--	--	--	--	--	--	--
	Dec-00	--	--	--	--	--	--	--	--	--	--	--	--	--
	Mar-01	--	--	--	--	--	--	--	--	--	--	--	--	--
	Jul-01	**81**	**38**	2	**280**	**29**	--	1.3	0	--	--	--	0	0
	Oct-01	**160**	**130**	2.4	**140**	**17**	--	0	0	--	--	--	0	0
	Jan-02	--	--	--	--	--	--	--	--	--	--	--	--	--
	May-02	**250**	**200**	0	**190**	**16**	--	0	0	--	--	--	0	0
	Aug-02	**35**	**26**	1.8	**76**	**12**	--	0	0	--	--	--	0	0
	Nov-02	**350**	**280**	4.7	**260**	**42**	--	0	0	--	--	--	0	0
	Mar-03	**180**	**88**	0	**280**	**53**	--	0	0	--	--	--	0	0
	Jul-03	**200**	**100**	4.4	**350**	**60**	--	0	0	--	--	--	0	0
	Oct-03	**220**	**110**	6	**180**	**100**	--	**6**	0	--	--	--	0	0
	Feb-04	**200**	**330**	5.40	**430**	**41**	--	0	0	--	--	--	0	0
	Mar-04	**240**	**260**	5.4	**500**	**65**	--	0	0	--	--	--	0	0
	Jun-04	**290**	**150**	11	**420**	**57**	--	**8.2**	0	--	--	--	**15**	**9.3**
	Sep-04	**150**	**220**	6.6	**380**	**61**	--	0	0	--	--	--	0	0
	Dec-04	**220**	**160**	0	**340**	**40**	--	0	0	--	--	--	0	0
	Mar-05	**87**	**80**	5.5	**390**	**100**	--	0	0	--	--	--	0	0
	Mar-06	**180**	**260**	6.6	**290**	**83**	--	0	0	--	--	--	0	0
	Mar-07	**210**	**200**	6.8	**410**	**73**	--	0	0	--	--	--	0	0
	Aug-08	**8.6**	**9.5**	--	**26**	**5.9**	--	0	--	--	--	--	--	--
	Oct-08	4.2	**37**	--	**87**	**37**	--	0	--	--	--	--	--	--
PZ-6	Feb-95	**350**	**20**	--	**25**	--	--	--	--	--	24	--	--	--
	Dec-04	**330**	**140**	--	**97**	--	--	--	--	--	--	--	--	--
	Aug-08	**14**	**19**	--	**19**	**9.6**	--	--	--	--	--	--	--	--
	Oct-08	0	**14**	--	**62**	**25**	--	--	--	--	--	--	--	--

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Historical Groundwater Data, 1996 to 2008

Former Lockheed Martin French Road Facility
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Location		Ethylbenzene	1,1-Dichloroethene	1,2-Dichlorobenzene	1,4-Dichlorobenzene	m-Xylene	o-Xylene	Trichloroflouromethane	Bromodichloromethane	Dibromochloromethane	1,1,2,2-Tetrachloroethane
	NYSDEC TOGS	5	0.7	3	3			5	50		5
MW-1	Jun-96	--	--	--	--	--	--	--	--	--	--
	Aug-96	--	--	--	--	--	--	--	--	--	--
	Nov-96	--	--	--	--	--	--	--	--	--	--
	Feb-97	--	--	--	--	--	--	--	--	--	--
	Jun-97	--	--	--	--	--	--	--	--	--	--
	Aug-97	--	--	--	--	--	--	--	--	--	--
	Nov-97	--	--	--	--	--	--	--	--	--	--
	Feb-98	--	--	--	--	--	--	--	--	--	--
	May-98	--	--	--	--	--	--	--	--	--	--
	Sep-98	--	--	--	--	--	--	--	--	--	--
	Nov-98	--	--	--	--	--	--	--	--	--	--
	Feb-99	--	--	--	--	--	--	--	--	--	--
	May-99	--	--	--	--	--	--	--	--	--	--
	Sep-99	--	--	--	--	--	--	--	--	--	--
	Dec-99	--	--	--	--	--	--	--	--	--	--
	Mar-00	--	--	--	--	--	--	--	--	--	--
	Jun-00	--	--	--	--	--	--	--	--	--	--
	Sep-00	--	--	--	--	--	--	--	--	--	--
	Dec-00	--	--	--	--	--	--	--	--	--	--
	Mar-01	--	--	--	--	--	--	--	--	--	--
	Jun-01	--	--	--	--	--	--	--	--	--	--
	Oct-01	--	--	--	--	--	--	--	--	--	--
	Jan-02	--	--	--	--	--	--	--	--	--	--
	May-02	--	--	--	--	--	--	--	--	--	--
	Aug-02	--	--	--	--	--	--	--	--	--	--
	Nov-02	--	--	--	--	--	--	--	--	--	--
	Mar-03	--	--	--	--	--	--	--	--	--	--
	Jul-03	--	--	--	--	--	--	--	--	--	--
	Oct-03	--	--	--	--	--	--	--	--	--	--
	Feb-04	--	--	--	--	--	--	--	--	--	--
	Mar-04	--	--	--	--	--	--	--	--	--	--
	Jun-04	--	--	--	--	--	--	--	--	--	--
	Sep-04	--	--	--	--	--	--	--	--	--	--
	Dec-04	--	--	--	--	--	--	--	--	--	--
	Mar-05	--	--	--	--	--	--	--	--	--	--
	Mar-06	--	--	--	--	--	--	--	--	--	--
	Mar-07	--	--	--	--	--	--	--	--	--	--
	Jul-08	--	--	--	--	--	--	--	--	--	--
	Oct-08	--	--	--	--	--	--	--	--	--	--
MW-2	Aug-96	--	--	--	--	--	--	--	--	--	--
	Nov-97	--	--	--	--	--	--	--	--	--	--
	May-98	--	--	--	--	--	--	--	--	--	--
	May-99	--	--	--	--	--	--	--	--	--	--
	Jun-00	--	--	--	--	--	--	--	--	--	--
	Dec-00	--	--	--	--	--	--	--	--	--	--
	Jul-01	--	--	--	--	--	--	--	--	--	--
	May-02	--	--	--	--	--	--	--	--	--	--
	Oct-03	--	--	--	--	--	--	--	--	--	--
	Sep-04	--	--	--	--	--	--	--	--	--	--
	Jul-08	--	--	--	--	--	--	--	--	--	--
	Oct-08	--	--	--	--	--	--	--	--	--	--
MW-3	Aug-96	--	--	--	--	--	--	--	--	--	--
	Nov-97	--	--	--	--	--	--	--	--	--	--
	May-98	--	--	--	--	--	--	--	--	--	--
	May-99	--	--	--	--	--	--	--	--	--	--
	Jun-00	--	--	--	--	--	--	--	--	--	--
	Dec-00	--	--	--	--	--	--	--	--	--	--
	Jul-01	--	--	--	--	--	--	--	--	--	--
	May-02	--	--	--	--	--	--	--	--	--	--
	Oct-03	--	--	--	--	--	--	--	--	--	--
	Sep-04	--	--	--	--	--	--	--	--	--	--
	Jul-08	--	--	--	--	--	--	--	--	--	--
	Oct-08	--	--	--	--	--	--	--	--	--	--

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Former Lockheed Martin French Road Facility
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Location		Ethylbenzene	1,1-Dichloroethene	1,2-Dichlorobenzene	1,4-Dichlorobenzene	m-Xylene	o-Xylene	Trichloroflouromethane	Bromodichloromethane	Dibromochloromethane	1,1,2,2-Tetrachloroethane
	NYSDEC TOGS	5	0.7	3	3			5	50		5
MW-4	Aug-96	--	--	--	--	--	--	--	--	--	--
	Nov-97	--	--	--	--	--	--	--	--	--	--
	May-98	--	--	--	--	--	--	--	--	--	--
	May-99	--	--	--	--	--	--	--	--	--	--
	Jun-00	--	--	--	--	--	--	--	--	--	--
	Dec-00	--	--	--	--	--	--	--	--	--	--
	Jul-01	--	--	--	--	--	--	--	--	--	--
	May-02	--	--	--	--	--	--	--	--	--	--
	Oct-03	--	--	--	--	--	--	--	--	--	--
	Sep-04	--	--	--	--	--	--	--	--	--	--
	Jul-08	--	--	--	--	--	--	--	--	--	--
	Oct-08	--	--	--	--	--	--	--	--	--	--
MW-9	May-98	--	--	--	--	--	--	--	--	--	--
	May-99	--	--	--	--	--	--	--	--	--	--
	Jun-00	--	--	--	--	--	--	--	--	--	--
	Jul-01	--	--	--	--	--	--	--	--	--	--
	May-02	--	--	--	--	--	--	--	--	--	--
	Oct-03	--	--	--	--	--	--	--	--	--	--
	Sep-04	--	--	--	--	--	--	--	--	--	--
	Jul-08	--	--	--	--	--	--	--	--	--	--
	Oct-08	--	--	--	--	--	--	--	--	--	--
MW-10	Jun-96	0	0	--	--	--	--	--	--	--	--
	Aug-96	0	0	--	--	--	--	--	--	--	--
	Nov-96	0	0	--	--	--	--	--	--	--	--
	Feb-97	0	**4**	--	--	--	--	--	--	--	--
	Jun-97	--	--	--	--	--	--	--	--	--	--
	Aug-97	--	--	--	--	--	--	--	--	--	--
	Nov-97	--	--	--	--	--	--	--	--	--	--
	Feb-98	1.2	**2.8**	--	--	--	--	--	--	--	--
	May-98	0	--	--	--	--	--	--	--	--	--
	Sep-98	0	--	--	--	--	--	--	--	--	--
	Nov-98	0	--	--	--	--	--	--	--	--	--
	Feb-99	0	--	--	--	--	--	--	--	--	--
	May-99	0	--	--	--	--	--	--	--	--	--
	Sep-99	0.69	--	--	--	--	--	--	--	--	--
	Dec-99	0.59	--	--	--	--	--	--	--	--	--
	Mar-00	0	--	--	--	--	--	--	--	--	--
	Jun-00	0	--	--	--	--	--	--	--	--	--
	Sep-00	0	--	--	--	--	--	--	--	--	--
	Dec-00	0	--	--	--	--	--	--	--	--	--
	Mar-01	--	--	--	--	--	--	--	--	--	--
	Jun-01	--	--	--	--	--	--	--	--	--	--
	Oct-02	0	--	--	--	--	--	--	--	--	--
	Jan-02	--	--	--	--	--	--	--	--	--	--
	May-02	0	--	--	--	--	--	--	--	--	--
	Aug-02	0	--	--	--	--	--	--	--	--	--
	Nov-02	0	--	--	--	--	--	--	--	--	--
	Apr-03	0	--	--	--	--	--	--	--	--	--
	Jul-03	0	--	--	--	--	--	--	--	--	--
	Oct-03	--	--	--	--	--	--	--	--	--	--
	Feb-04	0	--	--	--	--	--	--	--	--	--
MW-10	Mar-04	--	--	--	--	--	--	--	--	--	--
	Jun-04	0	--	--	--	--	--	--	--	--	--
	Sep-04	0	--	--	--	--	--	--	--	--	--
	Dec-04	0	--	--	--	--	--	--	--	--	--
	Mar-05	0	--	--	--	--	--	--	--	--	--
	Mar-06	0	--	--	--	--	--	--	--	--	--
	Mar-07	0.7	--	--	--	--	--	--	--	--	--
	Jul-08	--	--	--	--	--	--	--	--	--	--
	Oct-08	--	--	--	--	--	--	--	--	--	--

Appendix D-1
Historical Groundwater Data, 1996 to 2008

Former Lockheed Martin French Road Facility
Utica, New York

Location		Ethylbenzene	1,1-Dichloroethene	1,2-Dichlorobenzene	1,4-Dichlorobenzene	m-Xylene	o-Xylene	Trichloroflouromethane	Bromodichloromethane	Dibromochloromethane	1,1,2,2-Tetrachloroethane
	NYSDEC TOGS	5	0.7	3	3			5	50		5
PZ-2	Jun-96	--	--	--	--	--	--	--	--	--	--
	Aug-96	--	--	--	--	--	--	--	--	--	--
	Nov-96	--	--	--	--	--	--	--	--	--	--
	Feb-97	--	--	--	--	--	--	--	--	--	--
	Jun-97	--	--	--	--	--	--	--	--	--	--
	Aug-97	--	--	--	--	--	--	--	--	--	--
	Nov-97	--	--	--	--	--	--	--	--	--	--
	Feb-98	--	--	0	--	--	--	--	--	--	--
	May-98	--	--	**22**	0	0	0	--	--	--	--
	Sep-98	--	--	**36**	0	0	0	--	--	--	--
	Nov-98	--	--	**7.6**	0	2.4	9	--	--	--	--
	Feb-99	--	--	**11**	0.43	0.61	0.51	--	--	--	--
	May-99	--	--	**15**	0.22	1.3	0	--	--	--	--
	Sep-99	--	--	**20**	0.31	0	0	--	--	--	--
	Dec-99	--	--	**6.7**	0	0	0	--	--	--	--
	Mar-00	--	--	**4.9**	0	0	0	--	--	--	--
	Jun-00	--	--	0.98	0	0	0	--	--	--	--
	Sep-00	--	--	7	0	0	0	--	--	--	--
	Dec-00	--	--	2.6	0	0	0	--	--	--	--
	Mar-01	--	--	**3.1**	--	--	--	--	--	--	--
	Jun-01	--	--	**5.3**	--	--	--	--	--	--	--
	Oct-01	--	--	**5.8**	0	0	0	--	--	--	--
	Jan-02	--	--	**3.8**	--	--	--	--	--	--	--
	May-02	--	--	1.2	0	0	0	--	--	--	--
	Aug-02	--	--	**8.7**	0.22	1.2	4.8	--	--	--	--
	Nov-02	--	--	**3.1**	0	0.35	0.38	--	--	--	--
	Mar-03	--	--	1.7	0	0.25	0.24	--	--	--	--
	Jul-03	--	--	2.2	0	0	0	--	--	--	--
	Oct-03	--	--	**3.7**	--	--	0.22	--	--	--	--
	Feb-04	--	--	1.60	0.00	0.00	0.00	--	--	--	--
	Mar-04	--	--	0.78	0	0	0	--	--	--	--
	Jun-04	--	--	1.1	0	0	0	--	--	--	--
	Sep-04	--	--	1.2	0	0	0	--	--	--	--
	Dec-04	--	--	1.6	0	0	0	--	--	--	--
	Mar-05	--	--	0.79	0	0	0	--	--	--	--
	Mar-06	--	--	0	0	0	0	--	--	--	--
	Jul-08	--	--	--	--	--	--	--	--	--	--
	Oct-08	--	--	--	--	--	--	--	--	--	--
PZ-4	Aug-96	--	--	--	--	--	--	2	5	3	--
	Nov-97	--	--	--	--	--	--	--	--	--	--
	May-98	--	--	--	--	--	--	--	--	--	--
	May-99	--	--	--	--	--	--	--	--	--	--
	Jun-00	--	--	--	--	--	--	--	--	--	--
	Dec-00	--	--	--	--	--	--	--	--	--	--
	Jul-01	--	--	--	--	--	--	--	--	--	--
	May-02	--	--	--	--	--	--	--	--	--	--
	Oct-03	--	--	--	--	--	--	--	--	--	--
	Sep-04	--	--	--	--	--	--	--	--	--	--
	Jul-08	--	--	--	--	--	--	--	--	--	--

Appendix D-1
Historical Groundwater Data, 1996 to 2008

Former Lockheed Martin French Road Facility
Utica, New York

Location		Ethylbenzene	1,1-Dichloroethene	1,2-Dichlorobenzene	1,4-Dichlorobenzene	m-Xylene	o-Xylene	Trichloroflouromethane	Bromodichloromethane	Dibromochloromethane	1,1,2,2-Tetrachloroethane
	NYSDEC TOGS	5	0.7	3	3			5	50		5
PZ-5	Jun-96	--	--	0	--	--	--	--	--	--	--
	Aug-96	--	--	0	--	--	--	--	--	--	--
	Nov-96	--	--	0	--	--	--	--	--	--	--
	Feb-97	--	--	--	--	--	--	--	--	--	--
	Jun-97	--	--	--	--	--	--	--	--	--	--
	Aug-97	--	--	--	--	--	--	--	--	--	--
	Nov-97	--	--	--	--	--	--	--	--	--	--
	Feb-98	--	--	**260**	--	--	--	--	--	--	--
	May-98	--	--	--	--	--	--	--	--	--	--
	Sep-98	--	--	**11**	--	--	--	--	--	--	--
	Nov-98	--	--	0	--	--	--	--	--	--	--
	Feb-99	--	--	0	--	--	--	--	--	--	--
	May-99	--	--	--	--	--	--	--	--	--	--
	Sep-99	--	--	0	--	--	--	--	--	--	--
	Dec-99	--	--	--	--	--	--	--	--	--	--
	Mar-00	--	--	--	--	--	--	--	--	--	--
	Jun-00	--	--	--	--	--	--	--	--	--	--
	Sep-00	--	--	--	--	--	--	--	--	--	--
	Dec-00	--	--	--	--	--	--	--	--	--	--
	Mar-01	--	--	--	--	--	--	--	--	--	--
	Jul-01	--	--	0	--	--	--	--	--	--	--
	Oct-01	--	--	0	--	--	--	--	--	--	--
	Jan-02	--	--	--	--	--	--	--	--	--	--
	May-02	--	--	0	--	--	--	--	--	--	--
	Aug-02	--	--	0	--	--	--	--	--	--	--
	Nov-02	--	--	0	--	--	--	--	--	--	--
	Mar-03	--	--	0	--	--	--	--	--	--	--
	Jul-03	--	--	0	--	--	--	--	--	--	--
	Oct-03	--	--	--	--	--	--	--	--	--	--
	Feb-04	--	--	0	--	--	--	--	--	--	--
	Mar-04	--	--	0	--	--	--	--	--	--	--
	Jun-04	--	--	**7.2**	--	--	--	--	--	--	--
	Sep-04	--	--	0	--	--	--	--	--	--	--
	Dec-04	--	--	0	--	--	--	--	--	--	--
	Mar-05	--	--	0	--	--	--	--	--	--	--
	Mar-06	--	--	0	--	--	--	--	--	--	--
	Mar-07	--	--	0	--	--	--	--	--	--	--
	Aug-08	--	--	--	--	--	--	--	--	--	--
	Oct-08	--	--	--	--	--	--	--	--	--	--
PZ-6	Feb-95	--	--	--	--	--	--	--	--	--	--
	Dec-04	--	--	--	--	--	--	--	--	--	--
	Aug-08	--	--	--	--	--	--	--	--	--	--
	Oct-08	--	--	--	--	--	--	--	--	--	--

Appendix D-2

Historical Groundwater Data, 2008-2009

Appendix D-2
Historical Groundwater Data, 2008-2009

Former Lockheed Martin, French Road Facility
Utica, New York

CONSTITUENT	NYSDEC GW STANDARDS	PZ-2		PZ-4	PZ-5		PZ-6		PZ-7		PZ-8		PZ-9			PZ-10		MW-1	
		7/29/2008	10/2/2008	7/30/2008	8/6/2008	10/2/2008	8/6/2008	10/2/2008	8/6/2008	10/2/2008	8/6/2008	10/2/2008	8/6/2008	10/2/2008	2/5/2009	8/6/2008	10/2/2008	7/30/2008	10/3/2008
1,1,1-TRICHLOROETHANE	5	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4	1.1 J	< 1	< 20 J	< 4	< 5	< 1	<1	< 5	< 1	< 5	< 1
1,1,2,2-TETRACHLOROETHANE	5	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4	< 5	< 1	< 20 J	< 4	< 5	< 1	<1	< 5	< 1	< 5	< 1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5	< 5 J	< 1	1.7 J	< 20 J	< 4	< 20 J	< 4	< 5 J	< 1	< 20 J	< 4	< 5 J	< 1	<1	< 5 J	< 1	< 5	< 1
1,1,2-TRICHLOROETHANE	1	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4	< 5	< 1	< 20 J	< 4	< 5	< 1	<1	< 5	< 1	< 5	< 1
1,1-DICHLOROETHANE	5	< 5 J	< 1	0.90 J	< 20 J	< 4	< 20 J	< 4	0.91 J	< 1	< 20 J	< 4	3.0 J	1.9	1.3	1.3	< 1	**8.3**	**6.0**
1,1-DICHLOROETHENE	0.7	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4	< 5	< 1	< 20 J	< 4	< 5	< 1	<1	< 5	< 1	0.57 J	< 1
1,2,4-TRICHLOROBENZENE	5	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4	< 5	< 1	< 20 J	< 4	< 5	< 1	<1	< 5	< 1	< 5	< 1
1,2-DIBROMO-3-CHLOROPROPANE	0.04	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4	< 5	< 1	< 20 J	< 4	< 5	< 1	<1	< 5	< 1	< 5	< 1
1,2-DIBROMOETHANE	NS	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4	< 5	< 1	< 20 J	< 4	< 5	< 1	<1	< 5	< 1	< 5	< 1
1,2-DICHLOROBENZENE	3	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4	< 5	< 1	< 20 J	< 4	< 5	< 1	<1	< 5	< 1	< 5	< 1
1,2-DICHLOROETHANE	0.6	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4	< 5	< 1	< 20 J	< 4	< 5	< 1	<1	< 5	< 1	< 5	< 1
1,2-DICHLOROPROPANE	1	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4	< 5	< 1	< 20 J	< 4	< 5	< 1	<1	< 5	< 1	< 5	< 1
1,3-DICHLOROBENZENE	3	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4	< 5	< 1	< 20 J	< 4	< 5	< 1	<1	< 5	< 1	< 5	< 1
1,4-DICHLOROBENZENE	3	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4	< 5	< 1	< 20 J	< 4	< 5	< 1	<1	< 5	< 1	< 5	< 1
2-BUTANONE	50	2.6 J	< 5	< 25	< 100 J	< 20	< 100 J	< 20	< 25	< 5	< 100 J	< 20	2.6 J	< 5	<5	2.7 J	< 5	< 25	< 5
2-HEXANONE	50	< 25 J	< 5	< 25	< 100 J	< 20	< 100 J	< 20	< 25	< 5	< 100 J	< 20	< 25	< 5	<5	< 25	< 5	< 25	< 5
4-METHYL-2-PENTANONE	NS	< 25 J	< 5	< 25	< 100 J	< 20	< 100 J	< 20	< 25	< 5	< 100 J	< 20	< 25	< 5	<5	< 25	< 5	< 25	< 5
ACETONE	50	17 J	11	< 25	41 J	< 20	45 J	< 20	33	13	**770 J**	37	**150**	6.9	6.3	26	7.2	< 25	< 5
BENZENE	1	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4	< 5	< 1	< 20 J	< 4	< 5	< 1	<1	< 5	< 1	< 5	< 1
BROMODICHLOROMETHANE	50	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4	< 5	< 1	< 20 J	< 4	< 5	< 1	<1	< 5	< 1	< 5	< 1
BROMOFORM	50	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4	< 5	< 1	< 20 J	< 4	< 5	< 1	<1	< 5	< 1	< 5	< 1
BROMOMETHANE	5	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4	< 5	< 1	< 20 J	< 4	< 5	< 1	<1	< 5	< 1	< 5	< 1
CARBON DISULFIDE	NS	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4	< 5	< 1	< 20 J	< 4	< 5	3.2	0.45 J	< 5	2.6	< 5	< 1
CARBON TETRACHLORIDE	5	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4	< 5	< 1	< 20 J	< 4	< 5	< 1	<1	< 5	< 1	< 5	< 1
CHLOROBENZENE	5	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4	< 5	< 1	< 20 J	< 4	< 5	< 1	<1	< 5	< 1	< 5	< 1
CHLOROETHANE	5	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4	< 5	< 1	< 20 J	< 4	< 5	< 1	<1	< 5	< 1	< 5	< 1
CHLOROFORM	7	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4	< 5	< 1	**20 J**	**8.2**	0.40 J	< 1	<1	< 5	< 1	< 5	< 1
CHLOROMETHANE	NS	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4	< 5	< 1	< 20 J	< 4	< 5	< 1	<1	< 5	< 1	< 5	< 1
CIS-1,2-DICHLOROETHENE	5	< 5 J	< 1	2.7 J	**26 J**	**87**	**19 J**	**62**	< 5	< 1	1.8 J	5.0	< 5	< 1	<1	< 5	< 1	**54**	**43**
CIS-1,3-DICHLOROPROPENE	0.4	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4	< 5	< 1	< 20 J	< 4	< 5	< 1	<1	< 5	< 1	< 5	< 1
CYCLOHEXANE	NS	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4	< 5	< 1	< 20 J	< 4	< 5	< 1	<1	< 5	< 1	< 5	< 1
DIBROMOCHLOROMETHANE	5	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4	< 5	< 1	< 20 J	< 4	< 5	< 1	<1	< 5	< 1	< 5	< 1
DICHLORODIFLUOROMETHANE	5	< 5 J	< 1	3.0 J	< 20 J	< 4	< 20 J	< 4	< 5	< 1	< 20 J	< 4	< 5	< 1	<1	< 5	< 1	< 5	< 1
ETHYLBENZENE	5	< 5 J	< 1	< 5	**10 J**	1.7 J	< 20 J	< 4	< 5	< 1	< 20 J	< 4	< 5	< 1	<1	< 5	< 1	< 5	< 1
ISOPROPYLBENZENE	5	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4	< 5	< 1	< 20 J	< 4	< 5	< 1	<1	< 5	< 1	< 5	< 1
METHYL ACETATE	NS	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4	< 5	< 1	< 20 J	< 4	< 5	< 1	<1	< 5	< 1	< 5	< 1
METHYL-T-BUTYL ETHER (MTBE)	NS	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4	< 5	< 1	< 20 J	< 4	< 5	< 1	<1	< 5	< 1	< 5	< 1
METHYLCYCLOHEXANE	NS	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4	< 5	< 1	< 20 J	< 4	< 5	< 1	<1	< 5	< 1	< 5	< 1
METHYLENE CHLORIDE	5	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4	< 5	< 1	< 20 J	4.8	1.5 J	< 1	**8.6**	< 5	< 1	< 5	< 1
STYRENE (MONOMER)	5	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4	< 5	< 1	< 20 J	< 4	< 5	< 1	<1	< 5	< 1	< 5	< 1
TETRACHLOROETHENE	5	0.43 J	0.52 J	0.80 J	**8.6 J**	4.2	**14 J**	< 4	< 5	< 1	**14 J**	**41**	< 5	< 1	<1	< 5	< 1	**60**	**18**
TOLUENE	5	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4	< 5	< 1	< 20 J	< 4	< 5	< 1	<1	< 5	< 1	< 5	< 1
XYLENE (TOTAL)	5	< 15 J	< 3	< 15	**34 J**	3.9 J	< 20 J	< 12	< 15	< 3	< 60 J	< 12	< 15	< 3	<3	< 15	< 3	< 15	< 3
TRANS-1,2-DICHLOROETHENE	5	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4	< 5	< 1	< 20 J	< 4	< 5	< 1	<1	< 5	< 1	2.0 J	1.6
TRANS-1,3-DICHLOROPROPENE	0.4	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4	< 5	< 1	< 20 J	< 4	< 5	< 1	<1	< 5	< 1	< 5	< 1
TRICHLOROETHENE	5	< 5 J	< 1	< 5	**9.5 J**	**37**	**19 J**	**14**	0.94 J	< 1	4.1 J	**9.4**	< 5	< 1	0.27 J	< 5	0.54 J	**18**	**7.6**
TRICHLOROFLUOROMETHANE	5	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4	< 5	< 1	< 20 J	< 4	< 5	< 1	<1	< 5	< 1	< 5	< 1
VINYL CHLORIDE	2	< 5 J	< 1	< 5	**5.9 J**	**37**	**9.6 J**	**25**	< 5	< 1	< 20 J	< 4	< 5	< 1	<1	< 5	< 1	**4.7 J**	**3.9**

Notes:
Data compared to TOGS 1.1.1 Ambient
Water Quality Standards and Guidance Values
NS - No Standard
All units are ug/L unless otherwise noted
Exceedences noted in **bold**.
J - Estimated Value

Appendix D-2
Historical Groundwater Data, 2008-2009

Former Lockheed Martin, French Road Facility
Utica, New York

CONSTITUENT	NYSDEC GW STANDARDS	MW-2		MW-3		MW-4		MW-5		MW-7		MW-9		MW-10		MW-11		MW-13S
		7/30/2008	10/2/2008	7/30/2008	10/2/2008	7/30/2008	10/2/2008	7/30/2008	10/3/2008	7/29/2008	10/1/2008	7/30/2008	10/2/2008	7/30/2008	10/3/2008	7/29/2008	10/1/2008	7/30/2008
1,1,1-TRICHLOROETHANE	5	0.57 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1	1.2 J
1,1,2,2-TETRACHLOROETHANE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
1,1,2-TRICHLOROETHANE	1	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
1,1-DICHLOROETHANE	5	**7.0**	**5.3**	**5.2**	5.0	1.1 J	1.9	< 5	< 1	< 5 J	< 1	0.88 J	< 1	6.9	2.0	< 5	< 1	4.6 J
1,1-DICHLOROETHENE	0.7	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
1,2,4-TRICHLOROBENZENE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
1,2-DIBROMO-3-CHLOROPROPANE	0.04	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
1,2-DIBROMOETHANE	NS	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
1,2-DICHLOROBENZENE	3	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
1,2-DICHLOROETHANE	0.6	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
1,2-DICHLOROPROPANE	1	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
1,3-DICHLOROBENZENE	3	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
1,4-DICHLOROBENZENE	3	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
2-BUTANONE	50	< 25	< 5	< 25	< 5	< 25	< 5	< 25	< 5	< 25 J	< 5	< 25	< 5	< 25	< 5	< 25	< 5	< 25
2-HEXANONE	50	< 25	< 5	< 25	< 5	< 25	< 5	< 25	< 5	< 25 J	< 5	< 25	< 5	< 25	< 5	< 25	< 5	< 25
4-METHYL-2-PENTANONE	NS	< 25	< 5	< 25	< 5	< 25	< 5	< 25	< 5	< 25 J	< 5	< 25	< 5	< 25	< 5	< 25	< 5	< 25
ACETONE	50	< 25	< 5	< 25	< 5	< 25	< 5	< 25	14	4.4 J	6.1	< 25	12	< 25	< 5	< 25	< 5	< 25
BENZENE	1	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
BROMODICHLOROMETHANE	50	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
BROMOFORM	50	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
BROMOMETHANE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
CARBON DISULFIDE	NS	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	2.8	< 5
CARBON TETRACHLORIDE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
CHLOROBENZENE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
CHLOROETHANE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
CHLOROFORM	7	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
CHLOROMETHANE	NS	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
CIS-1,2-DICHLOROETHENE	5	**12**	**11**	**53**	**86**	4.6 J	**7.1**	< 5	< 1	< 5 J	< 1	2.5 J	< 1	**41**	**25**	< 5	< 1	< 5
CIS-1,3-DICHLOROPROPENE	0.4	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
CYCLOHEXANE	NS	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
DIBROMOCHLOROMETHANE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
DICHLORODIFLUOROMETHANE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
ETHYLBENZENE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
ISOPROPYLBENZENE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
METHYL ACETATE	NS	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
METHYL-T-BUTYL ETHER (MTBE)	NS	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
METHYLCYCLOHEXANE	NS	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
METHYLENE CHLORIDE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
STYRENE (MONOMER)	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
TETRACHLOROETHENE	5	< 5	< 1	**40**	**12**	< 5	< 1	< 5	< 1	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
TOLUENE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
XYLENE (TOTAL)	5	< 15	< 3	< 15	< 3	< 15	< 3	< 15	< 3	< 15 J	< 3	< 15	< 3	< 5	< 3	< 15	< 3	< 15
TRANS-1,2-DICHLOROETHENE	5	2.1 J	2.1	1.6 J	1.6	< 5	< 1	< 5	< 1	< 5 J	< 1	1.2 J	< 1	3.3 J	1.6	< 5	< 1	< 5
TRANS-1,3-DICHLOROPROPENE	0.4	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
TRICHLOROETHENE	5	0.62 J	< 1	**55**	**29**	< 5	< 1	< 5	< 1	0.68 J	0.98 J	< 5	< 1	3.9 J	1.7	< 5	< 1	0.53 J
TRICHLOROFLUOROMETHANE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
VINYL CHLORIDE	2	**36**	**28**	**4.8 J**	**4.0**	2.0 J	**3.2**	< 5	< 1	< 5 J	< 1	**7.8**	< 1	**38**	**22**	< 5	< 1	< 5

Notes:
Data compared to TOGS 1.1.1 Ambient
Water Quality Standards and Guidance Values
NS - No Standard
All units are ug/L unless otherwise noted
Exceedences noted in **bold**.
J - Estimated Value

Appendix D-2
Historical Groundwater Data, 2008-2009

Former Lockheed Martin, French Road Facility
Utica, New York

CONSTITUENT	NYSDEC GW STANDARDS	MW-13T		MW-13BR			MW-14S		MW-14BR			MW-15S		MW-15BR		
		7/30/2008	10/3/2008	7/30/2008	10/3/2008	2/5/2009	7/29/2008	10/1/2008	7/29/2008	10/1/2008	2/5/2009	7/29/2008	10/3/2008	7/29/2008	10/1/2008	2/5/2009
1,1,1-TRICHLOROETHANE	5	< 5	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
1,1,2,2-TETRACHLOROETHANE	5	< 5	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5	< 5	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
1,1,2-TRICHLOROETHANE	1	< 5	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
1,1-DICHLOROETHANE	5	**6.2**	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
1,1-DICHLOROETHENE	0.7	< 5	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
1,2,4-TRICHLOROBENZENE	5	< 5	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
1,2-DIBROMO-3-CHLOROPROPANE	0.04	< 5	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
1,2-DIBROMOETHANE	NS	< 5	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
1,2-DICHLOROBENZENE	3	< 5	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
1,2-DICHLOROETHANE	0.6	< 5	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
1,2-DICHLOROPROPANE	1	< 5	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
1,3-DICHLOROBENZENE	3	< 5	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
1,4-DICHLOROBENZENE	3	< 5	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
2-BUTANONE	50	< 25	< 5	< 25	< 5	<5	< 25	< 5	< 200	< 5	<5	< 25	< 5	< 25	< 5	1.4 J
2-HEXANONE	50	< 25	< 5	< 25	< 5	<5	< 25	< 5	< 200	< 5	<5	< 25	< 5	< 25	< 5	<5
4-METHYL-2-PENTANONE	NS	< 25	< 5	< 25	< 5	<5	< 25	< 5	< 200	< 5	<5	< 25	< 5	< 25	< 5	<5
ACETONE	50	< 25	10	< 25	< 5	3.8 J	2.3 J	< 5	**2100**	**380**	25	1.3 J	5.0	6.0 J	5.8	7.2
BENZENE	1	< 5	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
BROMODICHLOROMETHANE	50	< 5	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
BROMOFORM	50	< 5	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
BROMOMETHANE	5	< 5	< 1	< 5	< 1	<1	< 5 J	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
CARBON DISULFIDE	NS	< 5	< 1	< 5	< 1	<1	0.26 J	2.8	< 40	3.0	<1	< 5	2.8	0.30 J	2.6	<1
CARBON TETRACHLORIDE	5	< 5	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
CHLOROBENZENE	5	< 5	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
CHLOROETHANE	5	< 5	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
CHLOROFORM	7	< 5	< 1	< 5	< 1	<1	2.2 J	2.1	**14 J**	**7.5**	3.3	4.3 J	4.5	**11**	5.4	1.1
CHLOROMETHANE	NS	< 5	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
CIS-1,2-DICHLOROETHENE	5	2.5 J	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
CIS-1,3-DICHLOROPROPENE	0.4	< 5	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
CYCLOHEXANE	NS	< 5	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
DIBROMOCHLOROMETHANE	5	< 5	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
DICHLORODIFLUOROMETHANE	5	< 5	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
ETHYLBENZENE	5	< 5	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
ISOPROPYLBENZENE	5	< 5	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
METHYL ACETATE	NS	< 5	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
METHYL-T-BUTYL ETHER (MTBE)	NS	< 5	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
METHYLCYCLOHEXANE	NS	< 5	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
METHYLENE CHLORIDE	5	< 5	< 1	< 5	< 1	<1	< 5	< 1	< 40	1.4	<1	< 5	< 1	< 5	0.73 J	<1
STYRENE (MONOMER)	5	< 5	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
TETRACHLOROETHENE	5	< 5	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
TOLUENE	5	< 5	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
XYLENE (TOTAL)	5	< 15	< 3	< 15	< 3	<3	< 15	< 3	< 120	< 3	<3	< 15	< 3	< 15	< 3	<3
TRANS-1,2-DICHLOROETHENE	5	0.71 J	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
TRANS-1,3-DICHLOROPROPENE	0.4	< 5	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
TRICHLOROETHENE	5	< 5	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
TRICHLOROFLUOROMETHANE	5	< 5	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1
VINYL CHLORIDE	2	**26**	< 1	< 5	< 1	<1	< 5	< 1	< 40	< 1	<1	< 5	< 1	< 5	< 1	<1

Notes:
Data compared to TOGS 1.1.1 Ambient
Water Quality Standards and Guidance Values
NS - No Standard
All units are ug/L unless otherwise noted
Exceedences noted in **bold**.
J - Estimated Value

Appendix D-3

Historical Groundwater Data, June 2010

Stantec

Appendix D-3
Historical Groundwater Data, June 2010

Former Lockheed Martin, French Road Facility
Utica, New York

CONSTITUENT	NYSDEC GW STANDARDS	A1-PZ1 6/28/2010	A1-PZ2 6/28/2010	A2-PZ1 6/25/2010	A2-PZ2 6/25/2010	A2-PZ3 6/25/2010	A2-PZ4 6/25/2010	A2-PZ5 6/25/2010	A2-PZ6 6/25/2010	A2-PZ7 6/25/2010	A2-PZ8 6/25/2010	PZ-2 6/24/2010	PZ-4 6/28/2010
1,1,2-Trichlorotrifluoroethane	NS	ND J	ND J	740 DJ	ND	ND	ND	ND	6.0 J	ND	ND	ND	ND J
Bromodichloromethane	50	ND J	ND J	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND J
Bromoform	50	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	NS	ND J	ND J	0.6 J	ND	ND	ND	ND	ND	ND	ND	ND	ND J
Carbon Tetrachloride	5	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	NS	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	0.64 J	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	**820 D**	**9.5 J**	ND	ND	ND	**88**	**66**	ND	ND	ND
Chloromethane	NS	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J
cis-1,2-Dichloroethene	5	**32**	**140**	**7900 D**	**140**	0.89 J	ND	ND	**670 D**	**870 D**	6.6	1.7	ND
cis-1,3-Dichloropropene	0.4	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J
Cyclohexane	NS	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J
Dichlorodifluoromethane	5	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J
1,1-Dichloroethene	0.7	ND	ND	**14**	ND	ND	ND	ND	ND	**6.5**	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	**7.1**	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Acetate	NS	ND J	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND J	ND J
Methyl tert-Butyl Ether	NS	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J
Methylcyclohexane	NS	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J
Methylene Chloride	5	ND	ND	4.6	ND	ND	ND	ND	2.2	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	0.69 J	**740**	1.1	ND	ND	2.1	**2400 D**	ND	ND	ND
Toluene	5	ND J	ND J	0.89 J	ND	ND	ND	ND	ND	2.2	ND	ND	ND J
trans-1,2-Dichloroethene	5	ND	ND	**7.5**	ND	ND	ND	ND	1.1	**5.4**	ND	ND	ND
trans-1,3-Dichloropropene	0.4	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J
Trichloroethene	5	ND	ND	**1100 D**	**300**	1.7	ND	ND	**79**	**2700 D**	ND	ND	ND
Trichlorofluoromethane	5	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J
Vinyl chloride	2	ND	**21**	**590 D**	**12**	ND	ND	ND	**37**	**42**	ND	1.1	ND
Xylenes, total	5	ND	ND	ND	ND	ND	ND	ND	ND	2.5	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J
1,2-Dibromo-3-chloropropane	0.04	ND J	ND J	ND J	ND	ND	ND J	ND J	ND J	ND J	ND J	ND J	ND J
1,2-Dibromoethane (EDB)	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.87 J	ND
1,2-Dichloroethane	0.6	ND	ND	**1.8**	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene, Total	5	**32**	**140**	**7900 D**	**140**	0.89 J	ND	ND	**670 D**	**870 D**	6.6	1.7 J	ND
1,1,1-Trichloroethane	5	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	50	ND	ND	ND	ND	ND	ND	ND	7.0 J	ND	ND	ND	ND
2-Hexanone	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	0.78 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	NS	ND	ND	3.9 J	ND	ND	ND	ND	2.7 J	ND	ND	ND	ND
Acetone	50	ND J	ND J	7.5 J	ND	ND	3.2 J	ND J	26 J	ND J	ND J	5.1 J	ND J
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
Data compared to TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values
NS - No Standard
All units are ug/L unless otherwise noted
bgs - below ground surface
Exceedences noted in **bold** and highlighted.
J - Estimated Value
D -Diluted Value

Appendix D-3
Historical Groundwater Data, June 2010

Former Lockheed Martin, French Road Facility
Utica, New York

CONSTITUENT	NYSDEC GW STANDARDS	PZ-22 6/28/2010	PZ-23 6/28/2010	PZ-24 6/25/410	PZ-25 6/25/2010	PZ-26 6/25/2010	PZ-27 6/25/2010	PZ-28 6/25/2010	PZ-29 6/28/2010	PZ-30 6/25/2010	PZ-31 6/25/2010	PZ-32 6/25/2010	PZ-34 6/24/2010
1,1,2-Trichlorotrifluoroethane	NS	ND J	ND J	ND	ND	ND J	ND J	ND	ND J	ND	ND J	34 J	ND
Bromodichloromethane	50	ND J	ND J	ND	ND	ND J	ND J	ND	ND J	ND	ND J	ND	ND
Bromoform	50	ND J	ND J	ND	ND	ND J	ND J	ND	ND J	ND	ND J	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	NS	ND J	ND J	ND	ND	ND J	ND J	ND	ND J	ND	ND J	ND	ND
Carbon Tetrachloride	5	ND J	ND J	ND	ND	ND J	ND J	ND	ND J	ND	ND J	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	NS	ND J	ND J	ND	ND	ND J	ND J	ND	ND J	ND	ND J	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.8	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8	**16**	ND
Chloromethane	NS	ND J	ND J	ND	ND	ND J	ND J	ND	ND J	ND	ND J	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	**6.6**	4.8	ND	ND	**8.5**	**370**
cis-1,3-Dichloropropene	0.4	ND J	ND J	ND	ND	ND J	ND J	ND	ND J	ND	ND J	ND	ND
Cyclohexane	NS	ND J	ND J	ND	ND	ND J	ND J	ND	ND J	ND	ND J	ND	ND
Dichlorodifluoromethane	5	ND J	ND J	ND	ND	ND J	ND J	ND	ND J	ND	ND J	ND	ND
1,1-Dichloroethene	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**6.9**	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Acetate	NS	ND J	ND J	ND	ND	ND J	ND J	ND	ND J	ND	ND J	ND	ND J
Methyl tert-Butyl Ether	NS	ND J	ND J	ND	ND	ND J	ND J	ND	ND J	ND	ND J	1.4	ND
Methylcyclohexane	NS	ND J	ND J	ND	ND	ND J	ND J	ND	ND J	ND	ND J	ND	ND
Methylene Chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	**5.8**	ND	ND	**43**	ND
Toluene	5	ND J	ND J	ND	ND	ND J	ND J	ND	ND J	ND	ND J	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.4	ND J	ND J	ND	ND	ND J	ND J	ND	ND J	ND	ND J	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	0.84 J	ND	ND	**49**	**12**
Trichlorofluoromethane	5	ND J	ND J	ND	ND	ND J	ND J	ND	ND J	ND	ND J	ND	ND
Vinyl chloride	2	ND	ND	ND	ND	ND	ND	ND	**12 J**	ND	ND	ND	**130**
Xylenes, total	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND J	ND J	ND	ND	ND	ND	ND	ND J	ND	ND J	ND	ND
1,2-Dibromo-3-chloropropane	0.04	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J
1,2-Dibromoethane (EDB)	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene, Total	5	ND	ND	ND	ND	ND	ND	**6.6**	4.8	ND	ND	**8.5**	**370**
1,1,1-Trichloroethane	5	ND J	ND J	ND	ND	ND	ND	ND	ND J	ND	ND J	**11**	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	8.5 J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
Data compared to TOGS 1.1.1 Ambient Water Quality
NS - No Standard
All units are ug/L unless otherwise noted
bgs - below ground surface
Exceedences noted in **bold** and highlighted.
J - Estimated Value
D -Diluted Value

Appendix D-3
Historical Groundwater Data, June 2010

Former Lockheed Martin, French Road Facility
Utica, New York

CONSTITUENT	NYSDEC GW STANDARDS	PZ-35 6/24/2010	PZ-36 6/24/2010	PZ-39 6/24/2010	PZ-40 6/24/2010	PZ-41 6/24/2010	PZ-42 6/24/2010	MW-6 6/30/2010	MW-9 6/24/2010
1,1,2-Trichlorotrifluoroethane	NS	ND	ND	ND	ND	ND	ND	ND J	ND J
Bromodichloromethane	50	ND	ND	ND	ND	ND	ND	ND J	ND
Bromoform	50	ND	ND	ND	ND	ND	ND	ND J	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	NS	ND	ND	ND	0.62 J	ND	ND	ND J	ND
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND J	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	NS	ND	ND	ND	ND	ND	ND	ND J	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	2.0 J	1.9	1.0	ND	ND	**21**	ND	0.62
Chloromethane	NS	ND	ND	ND	ND	ND	ND	ND J	ND
cis-1,2-Dichloroethene	5	**10 J**	**6.3**	3.0	ND	ND	**31**	ND	ND
cis-1,3-Dichloropropene	0.4	ND	ND	ND	ND	ND	ND	ND J	ND
Cyclohexane	NS	ND	ND	ND	ND	ND	ND	ND J	ND
Dichlorodifluoromethane	5	ND	ND	ND	ND	ND	ND	ND J	ND
1,1-Dichloroethene	0.7	0.73 J	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND J	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Acetate	NS	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J
Methyl tert-Butyl Ether	NS	ND	ND	ND	ND	ND	ND	ND J	ND J
Methylcyclohexane	NS	ND	ND	ND	ND	ND	ND	ND J	ND
Methylene Chloride	5	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	0.77	ND	**7.4**	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND	ND J	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.4	ND	ND	ND	ND	ND	ND	ND J	ND
Trichloroethene	5	**7.1 J**	1.2	**6.5**	ND	ND	**18**	ND	ND
Trichlorofluoromethane	5	ND	ND	ND	ND	ND	ND	ND J	ND
Vinyl chloride	2	**2.9**	ND	**3.6**	ND	ND	ND	ND	ND
Xylenes, total	5	ND J	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND J	ND
1,2-Dibromo-3-chloropropane	0.04	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND
1,2-Dibromoethane (EDB)	NS	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene, Total	5	**11**	**6.3**	3.0	ND	ND	**31**	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND J	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	50	ND	ND	ND	ND	ND	ND	3.2 J	ND
2-Hexanone	50	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	NS	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	4.2 J	3.3 J	7.5 J	ND	ND	5.5 J	26
Benzene	1	ND J	ND	ND	ND	ND	ND	ND	ND

Notes:
Data compared to TOGS 1.1.1 Ambient Water Quality
NS - No Standard
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Exceedences noted in **bold** and highlighted.
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D -Diluted Value

Appendix D-4

Annual Groundwater Sampling Data, September 2011

Appendix D
Annual Groundwater Sampling Data, September 2011

Former Lockheed Martin, French Road Facility
Utica, New York

Location ID: / Date Collected:	Water Guidance Values	Units	A1-PZ-2 09/27/11	A2-PZ-1 09/26/11	A2-PZ-7 09/26/11	MW-1 09/28/11	MW-2 09/27/11	MW-3 09/28/11	MW-4 09/27/11	MW-5 09/28/11	MW-10 09/29/11	MW-13S 09/27/11	MW-14BR 09/29/11	PZ-5 09/28/11	PZ-6 09/28/11	PZ-7 09/28/11	PZ-8 09/28/11	PZ-11R 09/29/11	PZ-13R 09/27/11	PZ-18 09/27/11	PZ-26 09/26/11	PZ-27 09/27/11
Volatile Organics																						
1,1,1-Trichloroethane	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	1.0 U	**1600 EJ**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	ug/L	1.0 U	**3.0**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	ug/L	2.1	**1,900 D**	**9.8**	**5.8**	**5.9**	**6.8**	0.70 J	0.69 J	2.6	2.4	1.0 U	1.0 U	1.0 U	0.83 J	4.8	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	ug/L	1.0 U	**45**	0.73 J	1.0 U	1.0 U	0.57 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	0.04	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	0.0006	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	ug/L	1.0 U	**5.1**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	50	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone	- -	ug/L	5.0 U	6.2	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50	ug/L	6.6 J	9.5 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	16	3.1 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	1	ug/L	1.0 U	0.52 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	ug/L	1.0 U	1.0 U	1.0 U	1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	60	ug/L	1.0 U	1.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	ug/L	**99**	**27,000 D**	**120 D**	**40**	**13**	**68**	3.3	1.0 U	**53**	1.0 U	1.0 U	**53**	**20**	1.0 U	**77**	5.0	2.4	0.85 J	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	- -	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	ug/L	1.0 U	960 EJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	- -	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert-butyl ether	10	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	- -	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.57 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	ug/L	1.0 U	4.6	**360 D**	**77**	1.0 U	**9.2**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**59**	**72**	1.0 U	**350 D**	**5.5**	1.7	1.0 U	1.0 U	1.0 U
Toluene	5	ug/L	1.0 U	**5.1**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	ug/L	1.0 U	**33**	1.0 U	1.0 U	2.0	1.0 U	1.0 U	1.0 U	3.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	ug/L	1.7	**2,100 D**	**280 D**	**18**	1.0 U	**16**	1.0 U	1.0 U	2.5	1.0 U	1.0 U	**91 D**	**20**	0.58 J	**290 D**	**9.0**	**5.5**	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	2	ug/L	**27**	**720 D**	**6.5**	**3.1**	**33**	**5.0**	1.4	1.0 U	**23**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	5	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.70 J	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Miscellaneous																						
Alkalinity	- -	mg/L	425	482	NA	338	NA	356	NA	NA	211	NA	NA	NA	NA	NA	NA	NA	390	NA	NA	NA
Nitrate	10	mg/L	0.05 UJ	0.05 UJ	NA	0.73 [0.76]	NA	0.091	NA	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	0.063	NA	NA	NA
Sulfate	250	mg/L	2.4 UB	36.2 UB	NA	166 [167]	NA	160	NA	NA	108	NA	NA	NA	NA	NA	NA	NA	42.1	NA	NA	NA
Dissolved Gases (GC)																						
Methane	- -	ug/L	710 D	1,200 D	NA	130 [66]	NA	57	NA	NA	97 D	NA	NA	NA	NA	NA	NA	NA	120 D	NA	NA	NA

Notes:
NA: Not Analyzed.
U: The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
J: Indicates an estimated value.
B: Indicates an estimated value between the instrument detection limit and the Reporting Limit (RL).

Appendix D-5

2016 Groundwater Laboratory Analysis Reports

Appendix D-5

2016 Groundwater Laboratory Analysis Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-93653-1
Client Project/Site: Lockheed Martin Corporation- Groundwater

For:
Stantec Consulting Services Inc
61 Commercial Street
Rochester, New York 14614

Attn: Bob Mahoney

Authorized for release by:
1/22/2016 3:02:40 PM
Anne Pridgeon, Project Management Assistant I
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Designee for

Ryan VanDette, Project Manager II
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LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-93653-1	TRIP BLANK	Water	01/05/16 09:00	01/08/16 01:25
480-93653-2	MW-3	Water	01/06/16 09:32	01/08/16 01:25
480-93653-3	MW-1	Water	01/06/16 14:40	01/08/16 01:25
480-93653-4	MW-13S	Water	01/07/16 09:10	01/08/16 01:25
480-93653-5	MW-18	Water	01/06/16 14:20	01/08/16 01:25
480-93653-6	MW-20	Water	01/07/16 09:50	01/08/16 01:25
480-93653-7	MW-21	Water	01/06/16 12:00	01/08/16 01:25
480-93653-8	PZ-5	Water	01/06/16 15:35	01/08/16 01:25
480-93653-9	PZ-6	Water	01/06/16 15:30	01/08/16 01:25
480-93653-10	PZ-8	Water	01/05/16 15:35	01/08/16 01:25
480-93653-11	PZ-11R	Water	01/07/16 11:45	01/08/16 01:25
480-93653-12	PZ-13R	Water	01/07/16 11:55	01/08/16 01:25
480-93653-13	A2-PZ-1	Water	01/06/16 11:15	01/08/16 01:25
480-93653-14	A2-PZ-2	Water	01/06/16 13:50	01/08/16 01:25
480-93653-15	A1-PZ-2	Water	01/07/16 10:10	01/08/16 01:25
480-93653-16	MW-1-S/D	Water	01/06/16 14:45	01/08/16 01:25

Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-93653-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-93653-1

Comments
No additional comments.

Receipt
The samples were received on 1/8/2016 1:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.5º C.

GC/MS VOA
Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-18 (480-93653-5), PZ-5 (480-93653-8) and PZ-8 (480-93653-10). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: MW-20 (480-93653-6), MW-21 (480-93653-7), MW-21 (480-93653-7[MS]) and MW-21 (480-93653-7[MSD]). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-283295 recovered outside acceptance criteria, low biased, for Chloromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. PZ-13R (480-93653-12), A2-PZ-1 (480-93653-13), A2-PZ-2 (480-93653-14), A1-PZ-2 (480-93653-15) and MW-1-S/D (480-93653-16).

Method(s) 8260C: The following sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: A1-PZ-2 (480-93653-15).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-283332 recovered outside acceptance criteria, low biased, for Chloromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following samples are impacted:A2-PZ-1 (480-93653-13) and A2-PZ-2 (480-93653-14).

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: A2-PZ-1 (480-93653-13) and A2-PZ-2 (480-93653-14). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following samples was diluted to bring the concentration of target analytes within the calibration range: A2-PZ-1 (480-93653-13) and A2-PZ-2 (480-93653-14). Elevated reporting limits (RLs) are provided.

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

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-93653-1

No Detections.

Client Sample ID: MW-3 — Lab Sample ID: 480-93653-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.6		1.0	0.38	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	24		1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	24		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	15		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	1.5		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: MW-1 — Lab Sample ID: 480-93653-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.3		1.0	0.38	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	15		1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	48		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	12		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: MW-13S — Lab Sample ID: 480-93653-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.96	J	1.0	0.38	ug/L	1		8260C	Total/NA

Client Sample ID: MW-18 — Lab Sample ID: 480-93653-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	17	J	20	7.6	ug/L	20		8260C	Total/NA
cis-1,2-Dichloroethene	670		20	16	ug/L	20		8260C	Total/NA
Tetrachloroethene	290		20	7.2	ug/L	20		8260C	Total/NA
Trichloroethene	510		20	9.2	ug/L	20		8260C	Total/NA

Client Sample ID: MW-20 — Lab Sample ID: 480-93653-6

No Detections.

Client Sample ID: MW-21 — Lab Sample ID: 480-93653-7

No Detections.

Client Sample ID: PZ-5 — Lab Sample ID: 480-93653-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	30		5.0	4.1	ug/L	5		8260C	Total/NA
Tetrachloroethene	160		5.0	1.8	ug/L	5		8260C	Total/NA
Trichloroethene	41		5.0	2.3	ug/L	5		8260C	Total/NA

Client Sample ID: PZ-6 — Lab Sample ID: 480-93653-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.5	J	10	3.0	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	9.6		1.0	0.81	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: PZ-6 (Continued) — Lab Sample ID: 480-93653-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	50		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	11		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: PZ-8 — Lab Sample ID: 480-93653-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	34		5.0	4.1	ug/L	5		8260C	Total/NA
Tetrachloroethene	160		5.0	1.8	ug/L	5		8260C	Total/NA
Trichloroethene	180		5.0	2.3	ug/L	5		8260C	Total/NA

Client Sample ID: PZ-11R — Lab Sample ID: 480-93653-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.0		1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	2.4		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	3.3		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: PZ-13R — Lab Sample ID: 480-93653-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.3		1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.88	J	1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	3.1		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: A2-PZ-1 — Lab Sample ID: 480-93653-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	200		100	31	ug/L	100		8260C	Total/NA
1,1-Dichloroethane	730		100	38	ug/L	100		8260C	Total/NA
cis-1,2-Dichloroethene	15000	E	100	81	ug/L	100		8260C	Total/NA
Trichloroethene	520		100	46	ug/L	100		8260C	Total/NA
Vinyl chloride	690		100	90	ug/L	100		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane - DL	260		200	62	ug/L	200		8260C	Total/NA
1,1-Dichloroethane - DL	830		200	76	ug/L	200		8260C	Total/NA
cis-1,2-Dichloroethene - DL	17000		200	160	ug/L	200		8260C	Total/NA
Trichloroethene - DL	660		200	92	ug/L	200		8260C	Total/NA
Vinyl chloride - DL	720		200	180	ug/L	200		8260C	Total/NA

Client Sample ID: A2-PZ-2 — Lab Sample ID: 480-93653-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	7.4		5.0	1.9	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	150		5.0	4.1	ug/L	5		8260C	Total/NA
Tetrachloroethene	900	E	5.0	1.8	ug/L	5		8260C	Total/NA
Trichloroethene	360		5.0	2.3	ug/L	5		8260C	Total/NA
Vinyl chloride	6.4		5.0	4.5	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene - DL	180		20	16	ug/L	20		8260C	Total/NA
Tetrachloroethene - DL	910		20	7.2	ug/L	20		8260C	Total/NA
Trichloroethene - DL	370		20	9.2	ug/L	20		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: A1-PZ-2 — Lab Sample ID: 480-93653-15

No Detections.

Client Sample ID: MW-1-S/D — Lab Sample ID: 480-93653-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.3		1.0	0.38	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	14		1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	52		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	11		1.0	0.46	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-93653-1

Date Collected: 01/05/16 09:00

Matrix: Water

Date Received: 01/08/16 01:25

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/12/16 15:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/12/16 15:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			01/12/16 15:30	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/12/16 15:30	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/12/16 15:30	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/12/16 15:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			01/12/16 15:30	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/12/16 15:30	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/12/16 15:30	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/12/16 15:30	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/12/16 15:30	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/12/16 15:30	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			01/12/16 15:30	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/12/16 15:30	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/12/16 15:30	1
2-Hexanone	ND		5.0	1.2	ug/L			01/12/16 15:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/12/16 15:30	1
Acetone	ND		10	3.0	ug/L			01/12/16 15:30	1
Benzene	ND		1.0	0.41	ug/L			01/12/16 15:30	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/12/16 15:30	1
Bromoform	ND		1.0	0.26	ug/L			01/12/16 15:30	1
Bromomethane	ND		1.0	0.69	ug/L			01/12/16 15:30	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/12/16 15:30	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/12/16 15:30	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/12/16 15:30	1
Chloroethane	ND		1.0	0.32	ug/L			01/12/16 15:30	1
Chloroform	ND		1.0	0.34	ug/L			01/12/16 15:30	1
Chloromethane	ND		1.0	0.35	ug/L			01/12/16 15:30	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/12/16 15:30	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/12/16 15:30	1
Cyclohexane	ND		1.0	0.18	ug/L			01/12/16 15:30	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/12/16 15:30	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/12/16 15:30	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/12/16 15:30	1
Isopropylbenzene	ND		1.0	0.79	ug/L			01/12/16 15:30	1
Methyl acetate	ND		2.5	1.3	ug/L			01/12/16 15:30	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			01/12/16 15:30	1
Methylcyclohexane	ND		1.0	0.16	ug/L			01/12/16 15:30	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/12/16 15:30	1
Styrene	ND		1.0	0.73	ug/L			01/12/16 15:30	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/12/16 15:30	1
Toluene	ND		1.0	0.51	ug/L			01/12/16 15:30	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/12/16 15:30	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/12/16 15:30	1
Trichloroethene	ND		1.0	0.46	ug/L			01/12/16 15:30	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/12/16 15:30	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/12/16 15:30	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/12/16 15:30	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-93653-1

Date Collected: 01/05/16 09:00

Matrix: Water

Date Received: 01/08/16 01:25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		66 - 137		01/12/16 15:30	1
4-Bromofluorobenzene (Surr)	107		73 - 120		01/12/16 15:30	1
Toluene-d8 (Surr)	94		71 - 126		01/12/16 15:30	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: MW-3

Date Collected: 01/06/16 09:32
Date Received: 01/08/16 01:25

Lab Sample ID: 480-93653-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/12/16 15:55	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/12/16 15:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			01/12/16 15:55	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/12/16 15:55	1
1,1-Dichloroethane	**2.6**		1.0	0.38	ug/L			01/12/16 15:55	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/12/16 15:55	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			01/12/16 15:55	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/12/16 15:55	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/12/16 15:55	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/12/16 15:55	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/12/16 15:55	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/12/16 15:55	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			01/12/16 15:55	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/12/16 15:55	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/12/16 15:55	1
2-Hexanone	ND		5.0	1.2	ug/L			01/12/16 15:55	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/12/16 15:55	1
Acetone	ND		10	3.0	ug/L			01/12/16 15:55	1
Benzene	ND		1.0	0.41	ug/L			01/12/16 15:55	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/12/16 15:55	1
Bromoform	ND		1.0	0.26	ug/L			01/12/16 15:55	1
Bromomethane	ND		1.0	0.69	ug/L			01/12/16 15:55	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/12/16 15:55	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/12/16 15:55	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/12/16 15:55	1
Chloroethane	ND		1.0	0.32	ug/L			01/12/16 15:55	1
Chloroform	ND		1.0	0.34	ug/L			01/12/16 15:55	1
Chloromethane	ND		1.0	0.35	ug/L			01/12/16 15:55	1
cis-1,2-Dichloroethene	**24**		1.0	0.81	ug/L			01/12/16 15:55	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/12/16 15:55	1
Cyclohexane	ND		1.0	0.18	ug/L			01/12/16 15:55	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/12/16 15:55	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/12/16 15:55	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/12/16 15:55	1
Isopropylbenzene	ND		1.0	0.79	ug/L			01/12/16 15:55	1
Methyl acetate	ND		2.5	1.3	ug/L			01/12/16 15:55	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			01/12/16 15:55	1
Methylcyclohexane	ND		1.0	0.16	ug/L			01/12/16 15:55	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/12/16 15:55	1
Styrene	ND		1.0	0.73	ug/L			01/12/16 15:55	1
Tetrachloroethene	**24**		1.0	0.36	ug/L			01/12/16 15:55	1
Toluene	ND		1.0	0.51	ug/L			01/12/16 15:55	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/12/16 15:55	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/12/16 15:55	1
Trichloroethene	**15**		1.0	0.46	ug/L			01/12/16 15:55	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/12/16 15:55	1
Vinyl chloride	**1.5**		1.0	0.90	ug/L			01/12/16 15:55	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/12/16 15:55	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: MW-3

Date Collected: 01/06/16 09:32
Date Received: 01/08/16 01:25

Lab Sample ID: 480-93653-2

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		66 - 137		01/12/16 15:55	1
4-Bromofluorobenzene (Surr)	107		73 - 120		01/12/16 15:55	1
Toluene-d8 (Surr)	97		71 - 126		01/12/16 15:55	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: MW-1

Date Collected: 01/06/16 14:40
Date Received: 01/08/16 01:25

Lab Sample ID: 480-93653-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/12/16 16:21	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/12/16 16:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			01/12/16 16:21	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/12/16 16:21	1
1,1-Dichloroethane	**2.3**		1.0	0.38	ug/L			01/12/16 16:21	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/12/16 16:21	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			01/12/16 16:21	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/12/16 16:21	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/12/16 16:21	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/12/16 16:21	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/12/16 16:21	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/12/16 16:21	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			01/12/16 16:21	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/12/16 16:21	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/12/16 16:21	1
2-Hexanone	ND		5.0	1.2	ug/L			01/12/16 16:21	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/12/16 16:21	1
Acetone	ND		10	3.0	ug/L			01/12/16 16:21	1
Benzene	ND		1.0	0.41	ug/L			01/12/16 16:21	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/12/16 16:21	1
Bromoform	ND		1.0	0.26	ug/L			01/12/16 16:21	1
Bromomethane	ND		1.0	0.69	ug/L			01/12/16 16:21	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/12/16 16:21	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/12/16 16:21	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/12/16 16:21	1
Chloroethane	ND		1.0	0.32	ug/L			01/12/16 16:21	1
Chloroform	ND		1.0	0.34	ug/L			01/12/16 16:21	1
Chloromethane	ND		1.0	0.35	ug/L			01/12/16 16:21	1
cis-1,2-Dichloroethene	**15**		1.0	0.81	ug/L			01/12/16 16:21	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/12/16 16:21	1
Cyclohexane	ND		1.0	0.18	ug/L			01/12/16 16:21	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/12/16 16:21	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/12/16 16:21	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/12/16 16:21	1
Isopropylbenzene	ND		1.0	0.79	ug/L			01/12/16 16:21	1
Methyl acetate	ND		2.5	1.3	ug/L			01/12/16 16:21	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			01/12/16 16:21	1
Methylcyclohexane	ND		1.0	0.16	ug/L			01/12/16 16:21	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/12/16 16:21	1
Styrene	ND		1.0	0.73	ug/L			01/12/16 16:21	1
Tetrachloroethene	**48**		1.0	0.36	ug/L			01/12/16 16:21	1
Toluene	ND		1.0	0.51	ug/L			01/12/16 16:21	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/12/16 16:21	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/12/16 16:21	1
Trichloroethene	**12**		1.0	0.46	ug/L			01/12/16 16:21	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/12/16 16:21	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/12/16 16:21	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/12/16 16:21	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: MW-1

Date Collected: 01/06/16 14:40
Date Received: 01/08/16 01:25

Lab Sample ID: 480-93653-3

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		66 - 137		01/12/16 16:21	1
4-Bromofluorobenzene (Surr)	108		73 - 120		01/12/16 16:21	1
Toluene-d8 (Surr)	96		71 - 126		01/12/16 16:21	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: MW-13S

Date Collected: 01/07/16 09:10
Date Received: 01/08/16 01:25

Lab Sample ID: 480-93653-4

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/12/16 16:46	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/12/16 16:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			01/12/16 16:46	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/12/16 16:46	1
1,1-Dichloroethane	**0.96**	**J**	1.0	0.38	ug/L			01/12/16 16:46	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/12/16 16:46	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			01/12/16 16:46	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/12/16 16:46	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/12/16 16:46	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/12/16 16:46	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/12/16 16:46	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/12/16 16:46	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			01/12/16 16:46	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/12/16 16:46	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/12/16 16:46	1
2-Hexanone	ND		5.0	1.2	ug/L			01/12/16 16:46	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/12/16 16:46	1
Acetone	ND		10	3.0	ug/L			01/12/16 16:46	1
Benzene	ND		1.0	0.41	ug/L			01/12/16 16:46	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/12/16 16:46	1
Bromoform	ND		1.0	0.26	ug/L			01/12/16 16:46	1
Bromomethane	ND		1.0	0.69	ug/L			01/12/16 16:46	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/12/16 16:46	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/12/16 16:46	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/12/16 16:46	1
Chloroethane	ND		1.0	0.32	ug/L			01/12/16 16:46	1
Chloroform	ND		1.0	0.34	ug/L			01/12/16 16:46	1
Chloromethane	ND		1.0	0.35	ug/L			01/12/16 16:46	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/12/16 16:46	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/12/16 16:46	1
Cyclohexane	ND		1.0	0.18	ug/L			01/12/16 16:46	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/12/16 16:46	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/12/16 16:46	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/12/16 16:46	1
Isopropylbenzene	ND		1.0	0.79	ug/L			01/12/16 16:46	1
Methyl acetate	ND		2.5	1.3	ug/L			01/12/16 16:46	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			01/12/16 16:46	1
Methylcyclohexane	ND		1.0	0.16	ug/L			01/12/16 16:46	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/12/16 16:46	1
Styrene	ND		1.0	0.73	ug/L			01/12/16 16:46	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/12/16 16:46	1
Toluene	ND		1.0	0.51	ug/L			01/12/16 16:46	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/12/16 16:46	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/12/16 16:46	1
Trichloroethene	ND		1.0	0.46	ug/L			01/12/16 16:46	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/12/16 16:46	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/12/16 16:46	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/12/16 16:46	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: MW-13S

Date Collected: 01/07/16 09:10
Date Received: 01/08/16 01:25

Lab Sample ID: 480-93653-4

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		66 - 137		01/12/16 16:46	1
4-Bromofluorobenzene (Surr)	107		73 - 120		01/12/16 16:46	1
Toluene-d8 (Surr)	94		71 - 126		01/12/16 16:46	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: MW-18

Date Collected: 01/06/16 14:20
Date Received: 01/08/16 01:25

Lab Sample ID: 480-93653-5

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		20	16	ug/L			01/12/16 17:12	20
1,1,2,2-Tetrachloroethane	ND		20	4.2	ug/L			01/12/16 17:12	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	6.2	ug/L			01/12/16 17:12	20
1,1,2-Trichloroethane	ND		20	4.6	ug/L			01/12/16 17:12	20
1,1-Dichloroethane	**17**	**J**	20	7.6	ug/L			01/12/16 17:12	20
1,1-Dichloroethene	ND		20	5.8	ug/L			01/12/16 17:12	20
1,2,4-Trichlorobenzene	ND		20	8.2	ug/L			01/12/16 17:12	20
1,2-Dibromo-3-Chloropropane	ND		20	7.8	ug/L			01/12/16 17:12	20
1,2-Dibromoethane	ND		20	15	ug/L			01/12/16 17:12	20
1,2-Dichlorobenzene	ND		20	16	ug/L			01/12/16 17:12	20
1,2-Dichloroethane	ND		20	4.2	ug/L			01/12/16 17:12	20
1,2-Dichloropropane	ND		20	14	ug/L			01/12/16 17:12	20
1,3-Dichlorobenzene	ND		20	16	ug/L			01/12/16 17:12	20
1,4-Dichlorobenzene	ND		20	17	ug/L			01/12/16 17:12	20
2-Butanone (MEK)	ND		200	26	ug/L			01/12/16 17:12	20
2-Hexanone	ND		100	25	ug/L			01/12/16 17:12	20
4-Methyl-2-pentanone (MIBK)	ND		100	42	ug/L			01/12/16 17:12	20
Acetone	ND		200	60	ug/L			01/12/16 17:12	20
Benzene	ND		20	8.2	ug/L			01/12/16 17:12	20
Bromodichloromethane	ND		20	7.8	ug/L			01/12/16 17:12	20
Bromoform	ND		20	5.2	ug/L			01/12/16 17:12	20
Bromomethane	ND		20	14	ug/L			01/12/16 17:12	20
Carbon disulfide	ND		20	3.8	ug/L			01/12/16 17:12	20
Carbon tetrachloride	ND		20	5.4	ug/L			01/12/16 17:12	20
Chlorobenzene	ND		20	15	ug/L			01/12/16 17:12	20
Chloroethane	ND		20	6.4	ug/L			01/12/16 17:12	20
Chloroform	ND		20	6.8	ug/L			01/12/16 17:12	20
Chloromethane	ND		20	7.0	ug/L			01/12/16 17:12	20
cis-1,2-Dichloroethene	**670**		20	16	ug/L			01/12/16 17:12	20
cis-1,3-Dichloropropene	ND		20	7.2	ug/L			01/12/16 17:12	20
Cyclohexane	ND		20	3.6	ug/L			01/12/16 17:12	20
Dibromochloromethane	ND		20	6.4	ug/L			01/12/16 17:12	20
Dichlorodifluoromethane	ND		20	14	ug/L			01/12/16 17:12	20
Ethylbenzene	ND		20	15	ug/L			01/12/16 17:12	20
Isopropylbenzene	ND		20	16	ug/L			01/12/16 17:12	20
Methyl acetate	ND		50	26	ug/L			01/12/16 17:12	20
Methyl tert-butyl ether	ND		20	3.2	ug/L			01/12/16 17:12	20
Methylcyclohexane	ND		20	3.2	ug/L			01/12/16 17:12	20
Methylene Chloride	ND		20	8.8	ug/L			01/12/16 17:12	20
Styrene	ND		20	15	ug/L			01/12/16 17:12	20
Tetrachloroethene	**290**		20	7.2	ug/L			01/12/16 17:12	20
Toluene	ND		20	10	ug/L			01/12/16 17:12	20
trans-1,2-Dichloroethene	ND		20	18	ug/L			01/12/16 17:12	20
trans-1,3-Dichloropropene	ND		20	7.4	ug/L			01/12/16 17:12	20
Trichloroethene	**510**		20	9.2	ug/L			01/12/16 17:12	20
Trichlorofluoromethane	ND		20	18	ug/L			01/12/16 17:12	20
Vinyl chloride	ND		20	18	ug/L			01/12/16 17:12	20
Xylenes, Total	ND		40	13	ug/L			01/12/16 17:12	20

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: MW-18

Date Collected: 01/06/16 14:20
Date Received: 01/08/16 01:25

Lab Sample ID: 480-93653-5

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		66 - 137		01/12/16 17:12	20
4-Bromofluorobenzene (Surr)	110		73 - 120		01/12/16 17:12	20
Toluene-d8 (Surr)	98		71 - 126		01/12/16 17:12	20

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: MW-20

Date Collected: 01/07/16 09:50
Date Received: 01/08/16 01:25

Lab Sample ID: 480-93653-6

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			01/12/16 17:37	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			01/12/16 17:37	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			01/12/16 17:37	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			01/12/16 17:37	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			01/12/16 17:37	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			01/12/16 17:37	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			01/12/16 17:37	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			01/12/16 17:37	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			01/12/16 17:37	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			01/12/16 17:37	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			01/12/16 17:37	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			01/12/16 17:37	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			01/12/16 17:37	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			01/12/16 17:37	5
2-Butanone (MEK)	ND		50	6.6	ug/L			01/12/16 17:37	5
2-Hexanone	ND		25	6.2	ug/L			01/12/16 17:37	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			01/12/16 17:37	5
Acetone	ND		50	15	ug/L			01/12/16 17:37	5
Benzene	ND		5.0	2.1	ug/L			01/12/16 17:37	5
Bromodichloromethane	ND		5.0	2.0	ug/L			01/12/16 17:37	5
Bromoform	ND		5.0	1.3	ug/L			01/12/16 17:37	5
Bromomethane	ND		5.0	3.5	ug/L			01/12/16 17:37	5
Carbon disulfide	ND		5.0	0.95	ug/L			01/12/16 17:37	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			01/12/16 17:37	5
Chlorobenzene	ND		5.0	3.8	ug/L			01/12/16 17:37	5
Chloroethane	ND		5.0	1.6	ug/L			01/12/16 17:37	5
Chloroform	ND		5.0	1.7	ug/L			01/12/16 17:37	5
Chloromethane	ND		5.0	1.8	ug/L			01/12/16 17:37	5
cis-1,2-Dichloroethene	ND		5.0	4.1	ug/L			01/12/16 17:37	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			01/12/16 17:37	5
Cyclohexane	ND		5.0	0.90	ug/L			01/12/16 17:37	5
Dibromochloromethane	ND		5.0	1.6	ug/L			01/12/16 17:37	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			01/12/16 17:37	5
Ethylbenzene	ND		5.0	3.7	ug/L			01/12/16 17:37	5
Isopropylbenzene	ND		5.0	4.0	ug/L			01/12/16 17:37	5
Methyl acetate	ND		13	6.5	ug/L			01/12/16 17:37	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			01/12/16 17:37	5
Methylcyclohexane	ND		5.0	0.80	ug/L			01/12/16 17:37	5
Methylene Chloride	ND		5.0	2.2	ug/L			01/12/16 17:37	5
Styrene	ND		5.0	3.7	ug/L			01/12/16 17:37	5
Tetrachloroethene	ND		5.0	1.8	ug/L			01/12/16 17:37	5
Toluene	ND		5.0	2.6	ug/L			01/12/16 17:37	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			01/12/16 17:37	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			01/12/16 17:37	5
Trichloroethene	ND		5.0	2.3	ug/L			01/12/16 17:37	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			01/12/16 17:37	5
Vinyl chloride	ND		5.0	4.5	ug/L			01/12/16 17:37	5
Xylenes, Total	ND		10	3.3	ug/L			01/12/16 17:37	5

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: MW-20

Date Collected: 01/07/16 09:50
Date Received: 01/08/16 01:25

Lab Sample ID: 480-93653-6

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		66 - 137		01/12/16 17:37	5
4-Bromofluorobenzene (Surr)	109		73 - 120		01/12/16 17:37	5
Toluene-d8 (Surr)	95		71 - 126		01/12/16 17:37	5

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: MW-21

Date Collected: 01/06/16 12:00
Date Received: 01/08/16 01:25

Lab Sample ID: 480-93653-7

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			01/12/16 18:02	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			01/12/16 18:02	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			01/12/16 18:02	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			01/12/16 18:02	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			01/12/16 18:02	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			01/12/16 18:02	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			01/12/16 18:02	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			01/12/16 18:02	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			01/12/16 18:02	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			01/12/16 18:02	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			01/12/16 18:02	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			01/12/16 18:02	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			01/12/16 18:02	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			01/12/16 18:02	2
2-Butanone (MEK)	ND		20	2.6	ug/L			01/12/16 18:02	2
2-Hexanone	ND		10	2.5	ug/L			01/12/16 18:02	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			01/12/16 18:02	2
Acetone	ND		20	6.0	ug/L			01/12/16 18:02	2
Benzene	ND		2.0	0.82	ug/L			01/12/16 18:02	2
Bromodichloromethane	ND		2.0	0.78	ug/L			01/12/16 18:02	2
Bromoform	ND		2.0	0.52	ug/L			01/12/16 18:02	2
Bromomethane	ND		2.0	1.4	ug/L			01/12/16 18:02	2
Carbon disulfide	ND		2.0	0.38	ug/L			01/12/16 18:02	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			01/12/16 18:02	2
Chlorobenzene	ND		2.0	1.5	ug/L			01/12/16 18:02	2
Chloroethane	ND		2.0	0.64	ug/L			01/12/16 18:02	2
Chloroform	ND		2.0	0.68	ug/L			01/12/16 18:02	2
Chloromethane	ND		2.0	0.70	ug/L			01/12/16 18:02	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			01/12/16 18:02	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			01/12/16 18:02	2
Cyclohexane	ND		2.0	0.36	ug/L			01/12/16 18:02	2
Dibromochloromethane	ND		2.0	0.64	ug/L			01/12/16 18:02	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			01/12/16 18:02	2
Ethylbenzene	ND		2.0	1.5	ug/L			01/12/16 18:02	2
Isopropylbenzene	ND		2.0	1.6	ug/L			01/12/16 18:02	2
Methyl acetate	ND		5.0	2.6	ug/L			01/12/16 18:02	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			01/12/16 18:02	2
Methylcyclohexane	ND		2.0	0.32	ug/L			01/12/16 18:02	2
Methylene Chloride	ND		2.0	0.88	ug/L			01/12/16 18:02	2
Styrene	ND		2.0	1.5	ug/L			01/12/16 18:02	2
Tetrachloroethene	ND		2.0	0.72	ug/L			01/12/16 18:02	2
Toluene	ND		2.0	1.0	ug/L			01/12/16 18:02	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			01/12/16 18:02	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			01/12/16 18:02	2
Trichloroethene	ND		2.0	0.92	ug/L			01/12/16 18:02	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			01/12/16 18:02	2
Vinyl chloride	ND		2.0	1.8	ug/L			01/12/16 18:02	2
Xylenes, Total	ND		4.0	1.3	ug/L			01/12/16 18:02	2

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: MW-21

Date Collected: 01/06/16 12:00
Date Received: 01/08/16 01:25

Lab Sample ID: 480-93653-7

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		66 - 137		01/12/16 18:02	2
4-Bromofluorobenzene (Surr)	108		73 - 120		01/12/16 18:02	2
Toluene-d8 (Surr)	96		71 - 126		01/12/16 18:02	2

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: PZ-5

Date Collected: 01/06/16 15:35
Date Received: 01/08/16 01:25

Lab Sample ID: 480-93653-8

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			01/12/16 18:27	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			01/12/16 18:27	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			01/12/16 18:27	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			01/12/16 18:27	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			01/12/16 18:27	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			01/12/16 18:27	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			01/12/16 18:27	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			01/12/16 18:27	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			01/12/16 18:27	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			01/12/16 18:27	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			01/12/16 18:27	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			01/12/16 18:27	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			01/12/16 18:27	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			01/12/16 18:27	5
2-Butanone (MEK)	ND		50	6.6	ug/L			01/12/16 18:27	5
2-Hexanone	ND		25	6.2	ug/L			01/12/16 18:27	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			01/12/16 18:27	5
Acetone	ND		50	15	ug/L			01/12/16 18:27	5
Benzene	ND		5.0	2.1	ug/L			01/12/16 18:27	5
Bromodichloromethane	ND		5.0	2.0	ug/L			01/12/16 18:27	5
Bromoform	ND		5.0	1.3	ug/L			01/12/16 18:27	5
Bromomethane	ND		5.0	3.5	ug/L			01/12/16 18:27	5
Carbon disulfide	ND		5.0	0.95	ug/L			01/12/16 18:27	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			01/12/16 18:27	5
Chlorobenzene	ND		5.0	3.8	ug/L			01/12/16 18:27	5
Chloroethane	ND		5.0	1.6	ug/L			01/12/16 18:27	5
Chloroform	ND		5.0	1.7	ug/L			01/12/16 18:27	5
Chloromethane	ND		5.0	1.8	ug/L			01/12/16 18:27	5
cis-1,2-Dichloroethene	**30**		5.0	4.1	ug/L			01/12/16 18:27	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			01/12/16 18:27	5
Cyclohexane	ND		5.0	0.90	ug/L			01/12/16 18:27	5
Dibromochloromethane	ND		5.0	1.6	ug/L			01/12/16 18:27	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			01/12/16 18:27	5
Ethylbenzene	ND		5.0	3.7	ug/L			01/12/16 18:27	5
Isopropylbenzene	ND		5.0	4.0	ug/L			01/12/16 18:27	5
Methyl acetate	ND		13	6.5	ug/L			01/12/16 18:27	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			01/12/16 18:27	5
Methylcyclohexane	ND		5.0	0.80	ug/L			01/12/16 18:27	5
Methylene Chloride	ND		5.0	2.2	ug/L			01/12/16 18:27	5
Styrene	ND		5.0	3.7	ug/L			01/12/16 18:27	5
Tetrachloroethene	**160**		5.0	1.8	ug/L			01/12/16 18:27	5
Toluene	ND		5.0	2.6	ug/L			01/12/16 18:27	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			01/12/16 18:27	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			01/12/16 18:27	5
Trichloroethene	**41**		5.0	2.3	ug/L			01/12/16 18:27	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			01/12/16 18:27	5
Vinyl chloride	ND		5.0	4.5	ug/L			01/12/16 18:27	5
Xylenes, Total	ND		10	3.3	ug/L			01/12/16 18:27	5

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: PZ-5

Date Collected: 01/06/16 15:35
Date Received: 01/08/16 01:25

Lab Sample ID: 480-93653-8

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		66 - 137		01/12/16 18:27	5
4-Bromofluorobenzene (Surr)	106		73 - 120		01/12/16 18:27	5
Toluene-d8 (Surr)	95		71 - 126		01/12/16 18:27	5

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: PZ-6

Date Collected: 01/06/16 15:30
Date Received: 01/08/16 01:25

Lab Sample ID: 480-93653-9

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/12/16 18:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/12/16 18:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			01/12/16 18:53	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/12/16 18:53	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/12/16 18:53	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/12/16 18:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			01/12/16 18:53	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/12/16 18:53	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/12/16 18:53	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/12/16 18:53	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/12/16 18:53	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/12/16 18:53	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			01/12/16 18:53	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/12/16 18:53	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/12/16 18:53	1
2-Hexanone	ND		5.0	1.2	ug/L			01/12/16 18:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/12/16 18:53	1
Acetone	**5.5**	**J**	10	3.0	ug/L			01/12/16 18:53	1
Benzene	ND		1.0	0.41	ug/L			01/12/16 18:53	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/12/16 18:53	1
Bromoform	ND		1.0	0.26	ug/L			01/12/16 18:53	1
Bromomethane	ND		1.0	0.69	ug/L			01/12/16 18:53	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/12/16 18:53	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/12/16 18:53	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/12/16 18:53	1
Chloroethane	ND		1.0	0.32	ug/L			01/12/16 18:53	1
Chloroform	ND		1.0	0.34	ug/L			01/12/16 18:53	1
Chloromethane	ND		1.0	0.35	ug/L			01/12/16 18:53	1
cis-1,2-Dichloroethene	**9.6**		1.0	0.81	ug/L			01/12/16 18:53	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/12/16 18:53	1
Cyclohexane	ND		1.0	0.18	ug/L			01/12/16 18:53	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/12/16 18:53	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/12/16 18:53	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/12/16 18:53	1
Isopropylbenzene	ND		1.0	0.79	ug/L			01/12/16 18:53	1
Methyl acetate	ND		2.5	1.3	ug/L			01/12/16 18:53	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			01/12/16 18:53	1
Methylcyclohexane	ND		1.0	0.16	ug/L			01/12/16 18:53	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/12/16 18:53	1
Styrene	ND		1.0	0.73	ug/L			01/12/16 18:53	1
Tetrachloroethene	**50**		1.0	0.36	ug/L			01/12/16 18:53	1
Toluene	ND		1.0	0.51	ug/L			01/12/16 18:53	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/12/16 18:53	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/12/16 18:53	1
Trichloroethene	**11**		1.0	0.46	ug/L			01/12/16 18:53	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/12/16 18:53	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/12/16 18:53	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/12/16 18:53	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: PZ-6

Date Collected: 01/06/16 15:30
Date Received: 01/08/16 01:25

Lab Sample ID: 480-93653-9

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		66 - 137		01/12/16 18:53	1
4-Bromofluorobenzene (Surr)	108		73 - 120		01/12/16 18:53	1
Toluene-d8 (Surr)	95		71 - 126		01/12/16 18:53	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: PZ-8

Date Collected: 01/05/16 15:35
Date Received: 01/08/16 01:25

Lab Sample ID: 480-93653-10

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			01/12/16 19:18	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			01/12/16 19:18	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			01/12/16 19:18	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			01/12/16 19:18	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			01/12/16 19:18	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			01/12/16 19:18	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			01/12/16 19:18	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			01/12/16 19:18	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			01/12/16 19:18	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			01/12/16 19:18	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			01/12/16 19:18	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			01/12/16 19:18	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			01/12/16 19:18	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			01/12/16 19:18	5
2-Butanone (MEK)	ND		50	6.6	ug/L			01/12/16 19:18	5
2-Hexanone	ND		25	6.2	ug/L			01/12/16 19:18	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			01/12/16 19:18	5
Acetone	ND		50	15	ug/L			01/12/16 19:18	5
Benzene	ND		5.0	2.1	ug/L			01/12/16 19:18	5
Bromodichloromethane	ND		5.0	2.0	ug/L			01/12/16 19:18	5
Bromoform	ND		5.0	1.3	ug/L			01/12/16 19:18	5
Bromomethane	ND		5.0	3.5	ug/L			01/12/16 19:18	5
Carbon disulfide	ND		5.0	0.95	ug/L			01/12/16 19:18	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			01/12/16 19:18	5
Chlorobenzene	ND		5.0	3.8	ug/L			01/12/16 19:18	5
Chloroethane	ND		5.0	1.6	ug/L			01/12/16 19:18	5
Chloroform	ND		5.0	1.7	ug/L			01/12/16 19:18	5
Chloromethane	ND		5.0	1.8	ug/L			01/12/16 19:18	5
cis-1,2-Dichloroethene	**34**		5.0	4.1	ug/L			01/12/16 19:18	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			01/12/16 19:18	5
Cyclohexane	ND		5.0	0.90	ug/L			01/12/16 19:18	5
Dibromochloromethane	ND		5.0	1.6	ug/L			01/12/16 19:18	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			01/12/16 19:18	5
Ethylbenzene	ND		5.0	3.7	ug/L			01/12/16 19:18	5
Isopropylbenzene	ND		5.0	4.0	ug/L			01/12/16 19:18	5
Methyl acetate	ND		13	6.5	ug/L			01/12/16 19:18	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			01/12/16 19:18	5
Methylcyclohexane	ND		5.0	0.80	ug/L			01/12/16 19:18	5
Methylene Chloride	ND		5.0	2.2	ug/L			01/12/16 19:18	5
Styrene	ND		5.0	3.7	ug/L			01/12/16 19:18	5
Tetrachloroethene	**160**		5.0	1.8	ug/L			01/12/16 19:18	5
Toluene	ND		5.0	2.6	ug/L			01/12/16 19:18	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			01/12/16 19:18	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			01/12/16 19:18	5
Trichloroethene	**180**		5.0	2.3	ug/L			01/12/16 19:18	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			01/12/16 19:18	5
Vinyl chloride	ND		5.0	4.5	ug/L			01/12/16 19:18	5
Xylenes, Total	ND		10	3.3	ug/L			01/12/16 19:18	5

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: PZ-8

Date Collected: 01/05/16 15:35
Date Received: 01/08/16 01:25

Lab Sample ID: 480-93653-10

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		66 - 137		01/12/16 19:18	5
4-Bromofluorobenzene (Surr)	109		73 - 120		01/12/16 19:18	5
Toluene-d8 (Surr)	96		71 - 126		01/12/16 19:18	5

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: PZ-11R

Date Collected: 01/07/16 11:45
Date Received: 01/08/16 01:25

Lab Sample ID: 480-93653-11

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/12/16 19:43	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/12/16 19:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			01/12/16 19:43	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/12/16 19:43	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/12/16 19:43	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/12/16 19:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			01/12/16 19:43	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/12/16 19:43	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/12/16 19:43	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/12/16 19:43	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/12/16 19:43	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/12/16 19:43	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			01/12/16 19:43	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/12/16 19:43	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/12/16 19:43	1
2-Hexanone	ND		5.0	1.2	ug/L			01/12/16 19:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/12/16 19:43	1
Acetone	ND		10	3.0	ug/L			01/12/16 19:43	1
Benzene	ND		1.0	0.41	ug/L			01/12/16 19:43	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/12/16 19:43	1
Bromoform	ND		1.0	0.26	ug/L			01/12/16 19:43	1
Bromomethane	ND		1.0	0.69	ug/L			01/12/16 19:43	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/12/16 19:43	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/12/16 19:43	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/12/16 19:43	1
Chloroethane	ND		1.0	0.32	ug/L			01/12/16 19:43	1
Chloroform	ND		1.0	0.34	ug/L			01/12/16 19:43	1
Chloromethane	ND		1.0	0.35	ug/L			01/12/16 19:43	1
cis-1,2-Dichloroethene	**3.0**		1.0	0.81	ug/L			01/12/16 19:43	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/12/16 19:43	1
Cyclohexane	ND		1.0	0.18	ug/L			01/12/16 19:43	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/12/16 19:43	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/12/16 19:43	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/12/16 19:43	1
Isopropylbenzene	ND		1.0	0.79	ug/L			01/12/16 19:43	1
Methyl acetate	ND		2.5	1.3	ug/L			01/12/16 19:43	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			01/12/16 19:43	1
Methylcyclohexane	ND		1.0	0.16	ug/L			01/12/16 19:43	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/12/16 19:43	1
Styrene	ND		1.0	0.73	ug/L			01/12/16 19:43	1
Tetrachloroethene	**2.4**		1.0	0.36	ug/L			01/12/16 19:43	1
Toluene	ND		1.0	0.51	ug/L			01/12/16 19:43	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/12/16 19:43	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/12/16 19:43	1
Trichloroethene	**3.3**		1.0	0.46	ug/L			01/12/16 19:43	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/12/16 19:43	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/12/16 19:43	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/12/16 19:43	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: PZ-11R

Date Collected: 01/07/16 11:45
Date Received: 01/08/16 01:25

Lab Sample ID: 480-93653-11

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		66 - 137		01/12/16 19:43	1
4-Bromofluorobenzene (Surr)	109		73 - 120		01/12/16 19:43	1
Toluene-d8 (Surr)	95		71 - 126		01/12/16 19:43	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: PZ-13R

Date Collected: 01/07/16 11:55
Date Received: 01/08/16 01:25

Lab Sample ID: 480-93653-12

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/13/16 03:39	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/13/16 03:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			01/13/16 03:39	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/13/16 03:39	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/13/16 03:39	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/13/16 03:39	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			01/13/16 03:39	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/13/16 03:39	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/13/16 03:39	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/13/16 03:39	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/13/16 03:39	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/13/16 03:39	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			01/13/16 03:39	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/13/16 03:39	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/13/16 03:39	1
2-Hexanone	ND		5.0	1.2	ug/L			01/13/16 03:39	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/13/16 03:39	1
Acetone	ND		10	3.0	ug/L			01/13/16 03:39	1
Benzene	ND		1.0	0.41	ug/L			01/13/16 03:39	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/13/16 03:39	1
Bromoform	ND		1.0	0.26	ug/L			01/13/16 03:39	1
Bromomethane	ND		1.0	0.69	ug/L			01/13/16 03:39	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/13/16 03:39	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/13/16 03:39	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/13/16 03:39	1
Chloroethane	ND		1.0	0.32	ug/L			01/13/16 03:39	1
Chloroform	ND		1.0	0.34	ug/L			01/13/16 03:39	1
Chloromethane	ND		1.0	0.35	ug/L			01/13/16 03:39	1
cis-1,2-Dichloroethene	**1.3**		1.0	0.81	ug/L			01/13/16 03:39	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/13/16 03:39	1
Cyclohexane	ND		1.0	0.18	ug/L			01/13/16 03:39	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/13/16 03:39	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/13/16 03:39	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/13/16 03:39	1
Isopropylbenzene	ND		1.0	0.79	ug/L			01/13/16 03:39	1
Methyl acetate	ND		2.5	1.3	ug/L			01/13/16 03:39	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			01/13/16 03:39	1
Methylcyclohexane	ND		1.0	0.16	ug/L			01/13/16 03:39	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/13/16 03:39	1
Styrene	ND		1.0	0.73	ug/L			01/13/16 03:39	1
Tetrachloroethene	**0.88**	**J**	1.0	0.36	ug/L			01/13/16 03:39	1
Toluene	ND		1.0	0.51	ug/L			01/13/16 03:39	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/13/16 03:39	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/13/16 03:39	1
Trichloroethene	**3.1**		1.0	0.46	ug/L			01/13/16 03:39	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/13/16 03:39	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/13/16 03:39	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/13/16 03:39	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: PZ-13R

Date Collected: 01/07/16 11:55
Date Received: 01/08/16 01:25

Lab Sample ID: 480-93653-12

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		66 - 137		01/13/16 03:39	1
4-Bromofluorobenzene (Surr)	103		73 - 120		01/13/16 03:39	1
Toluene-d8 (Surr)	101		71 - 126		01/13/16 03:39	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: A2-PZ-1

Date Collected: 01/06/16 11:15
Date Received: 01/08/16 01:25

Lab Sample ID: 480-93653-13

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	82	ug/L			01/13/16 04:04	100
1,1,2,2-Tetrachloroethane	ND		100	21	ug/L			01/13/16 04:04	100
1,1,2-Trichloro-1,2,2-trifluoroethane	**200**		100	31	ug/L			01/13/16 04:04	100
1,1,2-Trichloroethane	ND		100	23	ug/L			01/13/16 04:04	100
1,1-Dichloroethane	**730**		100	38	ug/L			01/13/16 04:04	100
1,1-Dichloroethene	ND		100	29	ug/L			01/13/16 04:04	100
1,2,4-Trichlorobenzene	ND		100	41	ug/L			01/13/16 04:04	100
1,2-Dibromo-3-Chloropropane	ND		100	39	ug/L			01/13/16 04:04	100
1,2-Dibromoethane	ND		100	73	ug/L			01/13/16 04:04	100
1,2-Dichlorobenzene	ND		100	79	ug/L			01/13/16 04:04	100
1,2-Dichloroethane	ND		100	21	ug/L			01/13/16 04:04	100
1,2-Dichloropropane	ND		100	72	ug/L			01/13/16 04:04	100
1,3-Dichlorobenzene	ND		100	78	ug/L			01/13/16 04:04	100
1,4-Dichlorobenzene	ND		100	84	ug/L			01/13/16 04:04	100
2-Butanone (MEK)	ND		1000	130	ug/L			01/13/16 04:04	100
2-Hexanone	ND		500	120	ug/L			01/13/16 04:04	100
4-Methyl-2-pentanone (MIBK)	ND		500	210	ug/L			01/13/16 04:04	100
Acetone	ND		1000	300	ug/L			01/13/16 04:04	100
Benzene	ND		100	41	ug/L			01/13/16 04:04	100
Bromodichloromethane	ND		100	39	ug/L			01/13/16 04:04	100
Bromoform	ND		100	26	ug/L			01/13/16 04:04	100
Bromomethane	ND		100	69	ug/L			01/13/16 04:04	100
Carbon disulfide	ND		100	19	ug/L			01/13/16 04:04	100
Carbon tetrachloride	ND		100	27	ug/L			01/13/16 04:04	100
Chlorobenzene	ND		100	75	ug/L			01/13/16 04:04	100
Chloroethane	ND		100	32	ug/L			01/13/16 04:04	100
Chloroform	ND		100	34	ug/L			01/13/16 04:04	100
Chloromethane	ND		100	35	ug/L			01/13/16 04:04	100
cis-1,2-Dichloroethene	**15000**	**E**	100	81	ug/L			01/13/16 04:04	100
cis-1,3-Dichloropropene	ND		100	36	ug/L			01/13/16 04:04	100
Cyclohexane	ND		100	18	ug/L			01/13/16 04:04	100
Dibromochloromethane	ND		100	32	ug/L			01/13/16 04:04	100
Dichlorodifluoromethane	ND		100	68	ug/L			01/13/16 04:04	100
Ethylbenzene	ND		100	74	ug/L			01/13/16 04:04	100
Isopropylbenzene	ND		100	79	ug/L			01/13/16 04:04	100
Methyl acetate	ND		250	130	ug/L			01/13/16 04:04	100
Methyl tert-butyl ether	ND		100	16	ug/L			01/13/16 04:04	100
Methylcyclohexane	ND		100	16	ug/L			01/13/16 04:04	100
Methylene Chloride	ND		100	44	ug/L			01/13/16 04:04	100
Styrene	ND		100	73	ug/L			01/13/16 04:04	100
Tetrachloroethene	ND		100	36	ug/L			01/13/16 04:04	100
Toluene	ND		100	51	ug/L			01/13/16 04:04	100
trans-1,2-Dichloroethene	ND		100	90	ug/L			01/13/16 04:04	100
trans-1,3-Dichloropropene	ND		100	37	ug/L			01/13/16 04:04	100
Trichloroethene	**520**		100	46	ug/L			01/13/16 04:04	100
Trichlorofluoromethane	ND		100	88	ug/L			01/13/16 04:04	100
Vinyl chloride	**690**		100	90	ug/L			01/13/16 04:04	100
Xylenes, Total	ND		200	66	ug/L			01/13/16 04:04	100

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: A2-PZ-1

Date Collected: 01/06/16 11:15
Date Received: 01/08/16 01:25

Lab Sample ID: 480-93653-13

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*66 - 137*		*01/13/16 04:04*	*100*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*01/13/16 04:04*	*100*
Toluene-d8 (Surr)	*103*		*71 - 126*		*01/13/16 04:04*	*100*

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		200	160	ug/L			01/13/16 13:54	200
1,1,2,2-Tetrachloroethane	ND		200	42	ug/L			01/13/16 13:54	200
1,1,2-Trichloro-1,2,2-trifluoroethane	**260**		200	62	ug/L			01/13/16 13:54	200
1,1,2-Trichloroethane	ND		200	46	ug/L			01/13/16 13:54	200
1,1-Dichloroethane	**830**		200	76	ug/L			01/13/16 13:54	200
1,1-Dichloroethene	ND		200	58	ug/L			01/13/16 13:54	200
1,2,4-Trichlorobenzene	ND		200	82	ug/L			01/13/16 13:54	200
1,2-Dibromo-3-Chloropropane	ND		200	78	ug/L			01/13/16 13:54	200
1,2-Dibromoethane	ND		200	150	ug/L			01/13/16 13:54	200
1,2-Dichlorobenzene	ND		200	160	ug/L			01/13/16 13:54	200
1,2-Dichloroethane	ND		200	42	ug/L			01/13/16 13:54	200
1,2-Dichloropropane	ND		200	140	ug/L			01/13/16 13:54	200
1,3-Dichlorobenzene	ND		200	160	ug/L			01/13/16 13:54	200
1,4-Dichlorobenzene	ND		200	170	ug/L			01/13/16 13:54	200
2-Butanone (MEK)	ND		2000	260	ug/L			01/13/16 13:54	200
2-Hexanone	ND		1000	250	ug/L			01/13/16 13:54	200
4-Methyl-2-pentanone (MIBK)	ND		1000	420	ug/L			01/13/16 13:54	200
Acetone	ND		2000	600	ug/L			01/13/16 13:54	200
Benzene	ND		200	82	ug/L			01/13/16 13:54	200
Bromodichloromethane	ND		200	78	ug/L			01/13/16 13:54	200
Bromoform	ND		200	52	ug/L			01/13/16 13:54	200
Bromomethane	ND		200	140	ug/L			01/13/16 13:54	200
Carbon disulfide	ND		200	38	ug/L			01/13/16 13:54	200
Carbon tetrachloride	ND		200	54	ug/L			01/13/16 13:54	200
Chlorobenzene	ND		200	150	ug/L			01/13/16 13:54	200
Chloroethane	ND		200	64	ug/L			01/13/16 13:54	200
Chloroform	ND		200	68	ug/L			01/13/16 13:54	200
Chloromethane	ND		200	70	ug/L			01/13/16 13:54	200
cis-1,2-Dichloroethene	**17000**		200	160	ug/L			01/13/16 13:54	200
cis-1,3-Dichloropropene	ND		200	72	ug/L			01/13/16 13:54	200
Cyclohexane	ND		200	36	ug/L			01/13/16 13:54	200
Dibromochloromethane	ND		200	64	ug/L			01/13/16 13:54	200
Dichlorodifluoromethane	ND		200	140	ug/L			01/13/16 13:54	200
Ethylbenzene	ND		200	150	ug/L			01/13/16 13:54	200
Isopropylbenzene	ND		200	160	ug/L			01/13/16 13:54	200
Methyl acetate	ND		500	260	ug/L			01/13/16 13:54	200
Methyl tert-butyl ether	ND		200	32	ug/L			01/13/16 13:54	200
Methylcyclohexane	ND		200	32	ug/L			01/13/16 13:54	200
Methylene Chloride	ND		200	88	ug/L			01/13/16 13:54	200
Styrene	ND		200	150	ug/L			01/13/16 13:54	200
Tetrachloroethene	ND		200	72	ug/L			01/13/16 13:54	200
Toluene	ND		200	100	ug/L			01/13/16 13:54	200
trans-1,2-Dichloroethene	ND		200	180	ug/L			01/13/16 13:54	200

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: A2-PZ-1

Date Collected: 01/06/16 11:15
Date Received: 01/08/16 01:25

Lab Sample ID: 480-93653-13

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		200	74	ug/L			01/13/16 13:54	200
Trichloroethene	**660**		200	92	ug/L			01/13/16 13:54	200
Trichlorofluoromethane	ND		200	180	ug/L			01/13/16 13:54	200
Vinyl chloride	**720**		200	180	ug/L			01/13/16 13:54	200
Xylenes, Total	ND		400	130	ug/L			01/13/16 13:54	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*66 - 137*		*01/13/16 13:54*	*200*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*01/13/16 13:54*	*200*
Toluene-d8 (Surr)	*100*		*71 - 126*		*01/13/16 13:54*	*200*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: A2-PZ-2

Date Collected: 01/06/16 13:50
Date Received: 01/08/16 01:25

Lab Sample ID: 480-93653-14

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			01/13/16 04:30	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			01/13/16 04:30	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			01/13/16 04:30	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			01/13/16 04:30	5
1,1-Dichloroethane	**7.4**		5.0	1.9	ug/L			01/13/16 04:30	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			01/13/16 04:30	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			01/13/16 04:30	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			01/13/16 04:30	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			01/13/16 04:30	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			01/13/16 04:30	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			01/13/16 04:30	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			01/13/16 04:30	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			01/13/16 04:30	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			01/13/16 04:30	5
2-Butanone (MEK)	ND		50	6.6	ug/L			01/13/16 04:30	5
2-Hexanone	ND		25	6.2	ug/L			01/13/16 04:30	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			01/13/16 04:30	5
Acetone	ND		50	15	ug/L			01/13/16 04:30	5
Benzene	ND		5.0	2.1	ug/L			01/13/16 04:30	5
Bromodichloromethane	ND		5.0	2.0	ug/L			01/13/16 04:30	5
Bromoform	ND		5.0	1.3	ug/L			01/13/16 04:30	5
Bromomethane	ND		5.0	3.5	ug/L			01/13/16 04:30	5
Carbon disulfide	ND		5.0	0.95	ug/L			01/13/16 04:30	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			01/13/16 04:30	5
Chlorobenzene	ND		5.0	3.8	ug/L			01/13/16 04:30	5
Chloroethane	ND		5.0	1.6	ug/L			01/13/16 04:30	5
Chloroform	ND		5.0	1.7	ug/L			01/13/16 04:30	5
Chloromethane	ND		5.0	1.8	ug/L			01/13/16 04:30	5
cis-1,2-Dichloroethene	**150**		5.0	4.1	ug/L			01/13/16 04:30	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			01/13/16 04:30	5
Cyclohexane	ND		5.0	0.90	ug/L			01/13/16 04:30	5
Dibromochloromethane	ND		5.0	1.6	ug/L			01/13/16 04:30	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			01/13/16 04:30	5
Ethylbenzene	ND		5.0	3.7	ug/L			01/13/16 04:30	5
Isopropylbenzene	ND		5.0	4.0	ug/L			01/13/16 04:30	5
Methyl acetate	ND		13	6.5	ug/L			01/13/16 04:30	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			01/13/16 04:30	5
Methylcyclohexane	ND		5.0	0.80	ug/L			01/13/16 04:30	5
Methylene Chloride	ND		5.0	2.2	ug/L			01/13/16 04:30	5
Styrene	ND		5.0	3.7	ug/L			01/13/16 04:30	5
Tetrachloroethene	**900**	**E**	5.0	1.8	ug/L			01/13/16 04:30	5
Toluene	ND		5.0	2.6	ug/L			01/13/16 04:30	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			01/13/16 04:30	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			01/13/16 04:30	5
Trichloroethene	**360**		5.0	2.3	ug/L			01/13/16 04:30	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			01/13/16 04:30	5
Vinyl chloride	**6.4**		5.0	4.5	ug/L			01/13/16 04:30	5
Xylenes, Total	ND		10	3.3	ug/L			01/13/16 04:30	5

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: A2-PZ-2

Date Collected: 01/06/16 13:50
Date Received: 01/08/16 01:25

Lab Sample ID: 480-93653-14

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*66 - 137*		*01/13/16 04:30*	*5*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*01/13/16 04:30*	*5*
Toluene-d8 (Surr)	*102*		*71 - 126*		*01/13/16 04:30*	*5*

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		20	16	ug/L			01/13/16 14:20	20
1,1,2,2-Tetrachloroethane	ND		20	4.2	ug/L			01/13/16 14:20	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	6.2	ug/L			01/13/16 14:20	20
1,1,2-Trichloroethane	ND		20	4.6	ug/L			01/13/16 14:20	20
1,1-Dichloroethane	ND		20	7.6	ug/L			01/13/16 14:20	20
1,1-Dichloroethene	ND		20	5.8	ug/L			01/13/16 14:20	20
1,2,4-Trichlorobenzene	ND		20	8.2	ug/L			01/13/16 14:20	20
1,2-Dibromo-3-Chloropropane	ND		20	7.8	ug/L			01/13/16 14:20	20
1,2-Dibromoethane	ND		20	15	ug/L			01/13/16 14:20	20
1,2-Dichlorobenzene	ND		20	16	ug/L			01/13/16 14:20	20
1,2-Dichloroethane	ND		20	4.2	ug/L			01/13/16 14:20	20
1,2-Dichloropropane	ND		20	14	ug/L			01/13/16 14:20	20
1,3-Dichlorobenzene	ND		20	16	ug/L			01/13/16 14:20	20
1,4-Dichlorobenzene	ND		20	17	ug/L			01/13/16 14:20	20
2-Butanone (MEK)	ND		200	26	ug/L			01/13/16 14:20	20
2-Hexanone	ND		100	25	ug/L			01/13/16 14:20	20
4-Methyl-2-pentanone (MIBK)	ND		100	42	ug/L			01/13/16 14:20	20
Acetone	ND		200	60	ug/L			01/13/16 14:20	20
Benzene	ND		20	8.2	ug/L			01/13/16 14:20	20
Bromodichloromethane	ND		20	7.8	ug/L			01/13/16 14:20	20
Bromoform	ND		20	5.2	ug/L			01/13/16 14:20	20
Bromomethane	ND		20	14	ug/L			01/13/16 14:20	20
Carbon disulfide	ND		20	3.8	ug/L			01/13/16 14:20	20
Carbon tetrachloride	ND		20	5.4	ug/L			01/13/16 14:20	20
Chlorobenzene	ND		20	15	ug/L			01/13/16 14:20	20
Chloroethane	ND		20	6.4	ug/L			01/13/16 14:20	20
Chloroform	ND		20	6.8	ug/L			01/13/16 14:20	20
Chloromethane	ND		20	7.0	ug/L			01/13/16 14:20	20
cis-1,2-Dichloroethene	**180**		20	16	ug/L			01/13/16 14:20	20
cis-1,3-Dichloropropene	ND		20	7.2	ug/L			01/13/16 14:20	20
Cyclohexane	ND		20	3.6	ug/L			01/13/16 14:20	20
Dibromochloromethane	ND		20	6.4	ug/L			01/13/16 14:20	20
Dichlorodifluoromethane	ND		20	14	ug/L			01/13/16 14:20	20
Ethylbenzene	ND		20	15	ug/L			01/13/16 14:20	20
Isopropylbenzene	ND		20	16	ug/L			01/13/16 14:20	20
Methyl acetate	ND		50	26	ug/L			01/13/16 14:20	20
Methyl tert-butyl ether	ND		20	3.2	ug/L			01/13/16 14:20	20
Methylcyclohexane	ND		20	3.2	ug/L			01/13/16 14:20	20
Methylene Chloride	ND		20	8.8	ug/L			01/13/16 14:20	20
Styrene	ND		20	15	ug/L			01/13/16 14:20	20
Tetrachloroethene	**910**		20	7.2	ug/L			01/13/16 14:20	20
Toluene	ND		20	10	ug/L			01/13/16 14:20	20
trans-1,2-Dichloroethene	ND		20	18	ug/L			01/13/16 14:20	20
trans-1,3-Dichloropropene	ND		20	7.4	ug/L			01/13/16 14:20	20

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: A2-PZ-2

Date Collected: 01/06/16 13:50
Date Received: 01/08/16 01:25

Lab Sample ID: 480-93653-14

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**370**		20	9.2	ug/L			01/13/16 14:20	20
Trichlorofluoromethane	ND		20	18	ug/L			01/13/16 14:20	20
Vinyl chloride	ND		20	18	ug/L			01/13/16 14:20	20
Xylenes, Total	ND		40	13	ug/L			01/13/16 14:20	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*66 - 137*		*01/13/16 14:20*	*20*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*01/13/16 14:20*	*20*
Toluene-d8 (Surr)	*102*		*71 - 126*		*01/13/16 14:20*	*20*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: A1-PZ-2

Date Collected: 01/07/16 10:10
Date Received: 01/08/16 01:25

Lab Sample ID: 480-93653-15

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/13/16 04:55	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/13/16 04:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			01/13/16 04:55	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/13/16 04:55	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/13/16 04:55	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/13/16 04:55	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			01/13/16 04:55	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/13/16 04:55	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/13/16 04:55	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/13/16 04:55	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/13/16 04:55	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/13/16 04:55	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			01/13/16 04:55	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/13/16 04:55	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/13/16 04:55	1
2-Hexanone	ND		5.0	1.2	ug/L			01/13/16 04:55	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/13/16 04:55	1
Acetone	ND		10	3.0	ug/L			01/13/16 04:55	1
Benzene	ND		1.0	0.41	ug/L			01/13/16 04:55	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/13/16 04:55	1
Bromoform	ND		1.0	0.26	ug/L			01/13/16 04:55	1
Bromomethane	ND		1.0	0.69	ug/L			01/13/16 04:55	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/13/16 04:55	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/13/16 04:55	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/13/16 04:55	1
Chloroethane	ND		1.0	0.32	ug/L			01/13/16 04:55	1
Chloroform	ND		1.0	0.34	ug/L			01/13/16 04:55	1
Chloromethane	ND		1.0	0.35	ug/L			01/13/16 04:55	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/13/16 04:55	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/13/16 04:55	1
Cyclohexane	ND		1.0	0.18	ug/L			01/13/16 04:55	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/13/16 04:55	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/13/16 04:55	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/13/16 04:55	1
Isopropylbenzene	ND		1.0	0.79	ug/L			01/13/16 04:55	1
Methyl acetate	ND		2.5	1.3	ug/L			01/13/16 04:55	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			01/13/16 04:55	1
Methylcyclohexane	ND		1.0	0.16	ug/L			01/13/16 04:55	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/13/16 04:55	1
Styrene	ND		1.0	0.73	ug/L			01/13/16 04:55	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/13/16 04:55	1
Toluene	ND		1.0	0.51	ug/L			01/13/16 04:55	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/13/16 04:55	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/13/16 04:55	1
Trichloroethene	ND		1.0	0.46	ug/L			01/13/16 04:55	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/13/16 04:55	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/13/16 04:55	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/13/16 04:55	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: A1-PZ-2

Date Collected: 01/07/16 10:10
Date Received: 01/08/16 01:25

Lab Sample ID: 480-93653-15

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		66 - 137		01/13/16 04:55	1
4-Bromofluorobenzene (Surr)	102		73 - 120		01/13/16 04:55	1
Toluene-d8 (Surr)	102		71 - 126		01/13/16 04:55	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: MW-1-S/D

Date Collected: 01/06/16 14:45
Date Received: 01/08/16 01:25

Lab Sample ID: 480-93653-16

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/13/16 05:21	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/13/16 05:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			01/13/16 05:21	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/13/16 05:21	1
1,1-Dichloroethane	**2.3**		1.0	0.38	ug/L			01/13/16 05:21	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/13/16 05:21	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			01/13/16 05:21	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/13/16 05:21	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/13/16 05:21	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/13/16 05:21	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/13/16 05:21	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/13/16 05:21	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			01/13/16 05:21	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/13/16 05:21	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/13/16 05:21	1
2-Hexanone	ND		5.0	1.2	ug/L			01/13/16 05:21	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/13/16 05:21	1
Acetone	ND		10	3.0	ug/L			01/13/16 05:21	1
Benzene	ND		1.0	0.41	ug/L			01/13/16 05:21	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/13/16 05:21	1
Bromoform	ND		1.0	0.26	ug/L			01/13/16 05:21	1
Bromomethane	ND		1.0	0.69	ug/L			01/13/16 05:21	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/13/16 05:21	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/13/16 05:21	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/13/16 05:21	1
Chloroethane	ND		1.0	0.32	ug/L			01/13/16 05:21	1
Chloroform	ND		1.0	0.34	ug/L			01/13/16 05:21	1
Chloromethane	ND		1.0	0.35	ug/L			01/13/16 05:21	1
cis-1,2-Dichloroethene	**14**		1.0	0.81	ug/L			01/13/16 05:21	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/13/16 05:21	1
Cyclohexane	ND		1.0	0.18	ug/L			01/13/16 05:21	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/13/16 05:21	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/13/16 05:21	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/13/16 05:21	1
Isopropylbenzene	ND		1.0	0.79	ug/L			01/13/16 05:21	1
Methyl acetate	ND		2.5	1.3	ug/L			01/13/16 05:21	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			01/13/16 05:21	1
Methylcyclohexane	ND		1.0	0.16	ug/L			01/13/16 05:21	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/13/16 05:21	1
Styrene	ND		1.0	0.73	ug/L			01/13/16 05:21	1
Tetrachloroethene	**52**		1.0	0.36	ug/L			01/13/16 05:21	1
Toluene	ND		1.0	0.51	ug/L			01/13/16 05:21	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/13/16 05:21	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/13/16 05:21	1
Trichloroethene	**11**		1.0	0.46	ug/L			01/13/16 05:21	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/13/16 05:21	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/13/16 05:21	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/13/16 05:21	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: MW-1-S/D

Date Collected: 01/06/16 14:45
Date Received: 01/08/16 01:25

Lab Sample ID: 480-93653-16

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		66 - 137		01/13/16 05:21	1
4-Bromofluorobenzene (Surr)	101		73 - 120		01/13/16 05:21	1
Toluene-d8 (Surr)	101		71 - 126		01/13/16 05:21	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-283132/7
Matrix: Water
Analysis Batch: 283132

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/12/16 11:43	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/12/16 11:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			01/12/16 11:43	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/12/16 11:43	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/12/16 11:43	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/12/16 11:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			01/12/16 11:43	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/12/16 11:43	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/12/16 11:43	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/12/16 11:43	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/12/16 11:43	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/12/16 11:43	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			01/12/16 11:43	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/12/16 11:43	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/12/16 11:43	1
2-Hexanone	ND		5.0	1.2	ug/L			01/12/16 11:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/12/16 11:43	1
Acetone	ND		10	3.0	ug/L			01/12/16 11:43	1
Benzene	ND		1.0	0.41	ug/L			01/12/16 11:43	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/12/16 11:43	1
Bromoform	ND		1.0	0.26	ug/L			01/12/16 11:43	1
Bromomethane	ND		1.0	0.69	ug/L			01/12/16 11:43	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/12/16 11:43	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/12/16 11:43	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/12/16 11:43	1
Chloroethane	ND		1.0	0.32	ug/L			01/12/16 11:43	1
Chloroform	ND		1.0	0.34	ug/L			01/12/16 11:43	1
Chloromethane	ND		1.0	0.35	ug/L			01/12/16 11:43	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/12/16 11:43	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/12/16 11:43	1
Cyclohexane	ND		1.0	0.18	ug/L			01/12/16 11:43	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/12/16 11:43	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/12/16 11:43	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/12/16 11:43	1
Isopropylbenzene	ND		1.0	0.79	ug/L			01/12/16 11:43	1
Methyl acetate	ND		2.5	1.3	ug/L			01/12/16 11:43	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			01/12/16 11:43	1
Methylcyclohexane	ND		1.0	0.16	ug/L			01/12/16 11:43	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/12/16 11:43	1
Styrene	ND		1.0	0.73	ug/L			01/12/16 11:43	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/12/16 11:43	1
Toluene	ND		1.0	0.51	ug/L			01/12/16 11:43	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/12/16 11:43	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/12/16 11:43	1
Trichloroethene	ND		1.0	0.46	ug/L			01/12/16 11:43	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/12/16 11:43	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/12/16 11:43	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/12/16 11:43	1

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		66 - 137		01/12/16 11:43	1
4-Bromofluorobenzene (Surr)	109		73 - 120		01/12/16 11:43	1
Toluene-d8 (Surr)	96		71 - 126		01/12/16 11:43	1

Lab Sample ID: LCS 480-283132/5
Matrix: Water
Analysis Batch: 283132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	25.7		ug/L		103	71 - 129
1,1-Dichloroethene	25.0	25.9		ug/L		104	58 - 121
1,2-Dichlorobenzene	25.0	23.1		ug/L		92	80 - 124
1,2-Dichloroethane	25.0	23.4		ug/L		94	75 - 127
Benzene	25.0	27.4		ug/L		110	71 - 124
Chlorobenzene	25.0	24.5		ug/L		98	72 - 120
cis-1,2-Dichloroethene	25.0	27.7		ug/L		111	74 - 124
Ethylbenzene	25.0	22.9		ug/L		92	77 - 123
Methyl tert-butyl ether	25.0	25.5		ug/L		102	64 - 127
Tetrachloroethene	25.0	25.8		ug/L		103	74 - 122
Toluene	25.0	24.0		ug/L		96	80 - 122
trans-1,2-Dichloroethene	25.0	26.9		ug/L		108	73 - 127
Trichloroethene	25.0	26.7		ug/L		107	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		66 - 137
4-Bromofluorobenzene (Surr)	111		73 - 120
Toluene-d8 (Surr)	98		71 - 126

Lab Sample ID: 480-93653-7 MS
Matrix: Water
Analysis Batch: 283132

Client Sample ID: MW-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	ND		50.0	56.0		ug/L		112	71 - 129
1,1-Dichloroethene	ND		50.0	55.9		ug/L		112	58 - 121
1,2-Dichlorobenzene	ND		50.0	47.2		ug/L		94	80 - 124
1,2-Dichloroethane	ND		50.0	49.2		ug/L		98	75 - 127
Benzene	ND		50.0	59.1		ug/L		118	71 - 124
Chlorobenzene	ND		50.0	52.4		ug/L		105	72 - 120
cis-1,2-Dichloroethene	ND		50.0	57.7		ug/L		115	74 - 124
Ethylbenzene	ND		50.0	48.4		ug/L		97	77 - 123
Methyl tert-butyl ether	ND		50.0	50.8		ug/L		102	64 - 127
Tetrachloroethene	ND		50.0	56.4		ug/L		113	74 - 122
Toluene	ND		50.0	51.2		ug/L		102	80 - 122
trans-1,2-Dichloroethene	ND		50.0	58.0		ug/L		116	73 - 127
Trichloroethene	ND		50.0	55.9		ug/L		112	74 - 123

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		66 - 137
4-Bromofluorobenzene (Surr)	115		73 - 120
Toluene-d8 (Surr)	100		71 - 126

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

Lab Sample ID: 480-93653-7 MSD
Matrix: Water
Analysis Batch: 283132

Client Sample ID: MW-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	ND		50.0	53.0		ug/L		106	71 - 129	5	20
1,1-Dichloroethene	ND		50.0	51.6		ug/L		103	58 - 121	8	16
1,2-Dichlorobenzene	ND		50.0	44.5		ug/L		89	80 - 124	6	20
1,2-Dichloroethane	ND		50.0	47.8		ug/L		96	75 - 127	3	20
Benzene	ND		50.0	55.8		ug/L		112	71 - 124	6	13
Chlorobenzene	ND		50.0	50.0		ug/L		100	72 - 120	5	25
cis-1,2-Dichloroethene	ND		50.0	55.3		ug/L		111	74 - 124	4	15
Ethylbenzene	ND		50.0	46.4		ug/L		93	77 - 123	4	15
Methyl tert-butyl ether	ND		50.0	50.4		ug/L		101	64 - 127	1	37
Tetrachloroethene	ND		50.0	52.2		ug/L		104	74 - 122	8	20
Toluene	ND		50.0	48.3		ug/L		97	80 - 122	6	15
trans-1,2-Dichloroethene	ND		50.0	55.6		ug/L		111	73 - 127	4	20
Trichloroethene	ND		50.0	53.7		ug/L		107	74 - 123	4	16

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*66 - 137*
4-Bromofluorobenzene (Surr)	*113*		*73 - 120*
Toluene-d8 (Surr)	*97*		*71 - 126*

Lab Sample ID: MB 480-283295/6
Matrix: Water
Analysis Batch: 283295

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/12/16 23:13	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/12/16 23:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			01/12/16 23:13	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/12/16 23:13	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/12/16 23:13	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/12/16 23:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			01/12/16 23:13	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/12/16 23:13	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/12/16 23:13	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/12/16 23:13	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/12/16 23:13	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/12/16 23:13	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			01/12/16 23:13	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/12/16 23:13	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/12/16 23:13	1
2-Hexanone	ND		5.0	1.2	ug/L			01/12/16 23:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/12/16 23:13	1
Acetone	ND		10	3.0	ug/L			01/12/16 23:13	1
Benzene	ND		1.0	0.41	ug/L			01/12/16 23:13	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/12/16 23:13	1
Bromoform	ND		1.0	0.26	ug/L			01/12/16 23:13	1
Bromomethane	ND		1.0	0.69	ug/L			01/12/16 23:13	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/12/16 23:13	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/12/16 23:13	1

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

Lab Sample ID: MB 480-283295/6
Matrix: Water
Analysis Batch: 283295

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0	0.75	ug/L			01/12/16 23:13	1
Chloroethane	ND		1.0	0.32	ug/L			01/12/16 23:13	1
Chloroform	ND		1.0	0.34	ug/L			01/12/16 23:13	1
Chloromethane	ND		1.0	0.35	ug/L			01/12/16 23:13	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/12/16 23:13	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/12/16 23:13	1
Cyclohexane	ND		1.0	0.18	ug/L			01/12/16 23:13	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/12/16 23:13	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/12/16 23:13	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/12/16 23:13	1
Isopropylbenzene	ND		1.0	0.79	ug/L			01/12/16 23:13	1
Methyl acetate	ND		2.5	1.3	ug/L			01/12/16 23:13	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			01/12/16 23:13	1
Methylcyclohexane	ND		1.0	0.16	ug/L			01/12/16 23:13	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/12/16 23:13	1
Styrene	ND		1.0	0.73	ug/L			01/12/16 23:13	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/12/16 23:13	1
Toluene	ND		1.0	0.51	ug/L			01/12/16 23:13	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/12/16 23:13	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/12/16 23:13	1
Trichloroethene	ND		1.0	0.46	ug/L			01/12/16 23:13	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/12/16 23:13	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/12/16 23:13	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/12/16 23:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*66 - 137*		*01/12/16 23:13*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*01/12/16 23:13*	*1*
Toluene-d8 (Surr)	*103*		*71 - 126*		*01/12/16 23:13*	*1*

Lab Sample ID: LCS 480-283295/4
Matrix: Water
Analysis Batch: 283295

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	23.4		ug/L		94	71 - 129
1,1-Dichloroethene	25.0	22.9		ug/L		92	58 - 121
1,2-Dichlorobenzene	25.0	23.5		ug/L		94	80 - 124
1,2-Dichloroethane	25.0	21.2		ug/L		85	75 - 127
Benzene	25.0	24.7		ug/L		99	71 - 124
Chlorobenzene	25.0	25.1		ug/L		100	72 - 120
cis-1,2-Dichloroethene	25.0	24.4		ug/L		98	74 - 124
Ethylbenzene	25.0	22.7		ug/L		91	77 - 123
Methyl tert-butyl ether	25.0	22.6		ug/L		90	64 - 127
Tetrachloroethene	25.0	26.2		ug/L		105	74 - 122
Toluene	25.0	24.0		ug/L		96	80 - 122
trans-1,2-Dichloroethene	25.0	24.2		ug/L		97	73 - 127
Trichloroethene	25.0	23.3		ug/L		93	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*96*		*66 - 137*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*
Toluene-d8 (Surr)	*103*		*71 - 126*

Lab Sample ID: MB 480-283332/6
Matrix: Water
Analysis Batch: 283332

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/13/16 10:36	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/13/16 10:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			01/13/16 10:36	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/13/16 10:36	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/13/16 10:36	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/13/16 10:36	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			01/13/16 10:36	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/13/16 10:36	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/13/16 10:36	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/13/16 10:36	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/13/16 10:36	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/13/16 10:36	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			01/13/16 10:36	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/13/16 10:36	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/13/16 10:36	1
2-Hexanone	ND		5.0	1.2	ug/L			01/13/16 10:36	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/13/16 10:36	1
Acetone	ND		10	3.0	ug/L			01/13/16 10:36	1
Benzene	ND		1.0	0.41	ug/L			01/13/16 10:36	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/13/16 10:36	1
Bromoform	ND		1.0	0.26	ug/L			01/13/16 10:36	1
Bromomethane	ND		1.0	0.69	ug/L			01/13/16 10:36	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/13/16 10:36	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/13/16 10:36	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/13/16 10:36	1
Chloroethane	ND		1.0	0.32	ug/L			01/13/16 10:36	1
Chloroform	ND		1.0	0.34	ug/L			01/13/16 10:36	1
Chloromethane	ND		1.0	0.35	ug/L			01/13/16 10:36	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/13/16 10:36	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/13/16 10:36	1
Cyclohexane	ND		1.0	0.18	ug/L			01/13/16 10:36	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/13/16 10:36	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/13/16 10:36	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/13/16 10:36	1
Isopropylbenzene	ND		1.0	0.79	ug/L			01/13/16 10:36	1
Methyl acetate	ND		2.5	1.3	ug/L			01/13/16 10:36	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			01/13/16 10:36	1
Methylcyclohexane	ND		1.0	0.16	ug/L			01/13/16 10:36	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/13/16 10:36	1
Styrene	ND		1.0	0.73	ug/L			01/13/16 10:36	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/13/16 10:36	1
Toluene	ND		1.0	0.51	ug/L			01/13/16 10:36	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/13/16 10:36	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/13/16 10:36	1
Trichloroethene	ND		1.0	0.46	ug/L			01/13/16 10:36	1

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

Lab Sample ID: MB 480-283332/6
Matrix: Water
Analysis Batch: 283332

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/13/16 10:36	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/13/16 10:36	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/13/16 10:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*66 - 137*		*01/13/16 10:36*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*01/13/16 10:36*	*1*
Toluene-d8 (Surr)	*102*		*71 - 126*		*01/13/16 10:36*	*1*

Lab Sample ID: LCS 480-283332/4
Matrix: Water
Analysis Batch: 283332

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	23.5		ug/L		94	71 - 129
1,1-Dichloroethene	25.0	22.4		ug/L		90	58 - 121
1,2-Dichlorobenzene	25.0	24.4		ug/L		97	80 - 124
1,2-Dichloroethane	25.0	21.6		ug/L		86	75 - 127
Benzene	25.0	24.9		ug/L		100	71 - 124
Chlorobenzene	25.0	25.7		ug/L		103	72 - 120
cis-1,2-Dichloroethene	25.0	24.8		ug/L		99	74 - 124
Ethylbenzene	25.0	23.7		ug/L		95	77 - 123
Methyl tert-butyl ether	25.0	23.4		ug/L		94	64 - 127
Tetrachloroethene	25.0	26.9		ug/L		108	74 - 122
Toluene	25.0	24.8		ug/L		99	80 - 122
trans-1,2-Dichloroethene	25.0	24.5		ug/L		98	73 - 127
Trichloroethene	25.0	24.2		ug/L		97	74 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*66 - 137*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*
Toluene-d8 (Surr)	*102*		*71 - 126*

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

GC/MS VOA

Analysis Batch: 283132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-93653-1	TRIP BLANK	Total/NA	Water	8260C	
480-93653-2	MW-3	Total/NA	Water	8260C	
480-93653-3	MW-1	Total/NA	Water	8260C	
480-93653-4	MW-13S	Total/NA	Water	8260C	
480-93653-5	MW-18	Total/NA	Water	8260C	
480-93653-6	MW-20	Total/NA	Water	8260C	
480-93653-7	MW-21	Total/NA	Water	8260C	
480-93653-7 MS	MW-21	Total/NA	Water	8260C	
480-93653-7 MSD	MW-21	Total/NA	Water	8260C	
480-93653-8	PZ-5	Total/NA	Water	8260C	
480-93653-9	PZ-6	Total/NA	Water	8260C	
480-93653-10	PZ-8	Total/NA	Water	8260C	
480-93653-11	PZ-11R	Total/NA	Water	8260C	
LCS 480-283132/5	Lab Control Sample	Total/NA	Water	8260C	
MB 480-283132/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 283295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-93653-12	PZ-13R	Total/NA	Water	8260C	
480-93653-13	A2-PZ-1	Total/NA	Water	8260C	
480-93653-14	A2-PZ-2	Total/NA	Water	8260C	
480-93653-15	A1-PZ-2	Total/NA	Water	8260C	
480-93653-16	MW-1-S/D	Total/NA	Water	8260C	
LCS 480-283295/4	Lab Control Sample	Total/NA	Water	8260C	
MB 480-283295/6	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 283332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-93653-13 - DL	A2-PZ-1	Total/NA	Water	8260C	
480-93653-14 - DL	A2-PZ-2	Total/NA	Water	8260C	
LCS 480-283332/4	Lab Control Sample	Total/NA	Water	8260C	
MB 480-283332/6	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-93653-1

Date Collected: 01/05/16 09:00 — **Matrix: Water**
Date Received: 01/08/16 01:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	283132	01/12/16 15:30	SWO	TAL BUF

Client Sample ID: MW-3 — Lab Sample ID: 480-93653-2

Date Collected: 01/06/16 09:32 — **Matrix: Water**
Date Received: 01/08/16 01:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	283132	01/12/16 15:55	SWO	TAL BUF

Client Sample ID: MW-1 — Lab Sample ID: 480-93653-3

Date Collected: 01/06/16 14:40 — **Matrix: Water**
Date Received: 01/08/16 01:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	283132	01/12/16 16:21	SWO	TAL BUF

Client Sample ID: MW-13S — Lab Sample ID: 480-93653-4

Date Collected: 01/07/16 09:10 — **Matrix: Water**
Date Received: 01/08/16 01:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	283132	01/12/16 16:46	SWO	TAL BUF

Client Sample ID: MW-18 — Lab Sample ID: 480-93653-5

Date Collected: 01/06/16 14:20 — **Matrix: Water**
Date Received: 01/08/16 01:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	283132	01/12/16 17:12	SWO	TAL BUF

Client Sample ID: MW-20 — Lab Sample ID: 480-93653-6

Date Collected: 01/07/16 09:50 — **Matrix: Water**
Date Received: 01/08/16 01:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	283132	01/12/16 17:37	SWO	TAL BUF

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: MW-21
Lab Sample ID: 480-93653-7
Date Collected: 01/06/16 12:00
Matrix: Water
Date Received: 01/08/16 01:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	283132	01/12/16 18:02	SWO	TAL BUF

Client Sample ID: PZ-5
Lab Sample ID: 480-93653-8
Date Collected: 01/06/16 15:35
Matrix: Water
Date Received: 01/08/16 01:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	283132	01/12/16 18:27	SWO	TAL BUF

Client Sample ID: PZ-6
Lab Sample ID: 480-93653-9
Date Collected: 01/06/16 15:30
Matrix: Water
Date Received: 01/08/16 01:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	283132	01/12/16 18:53	SWO	TAL BUF

Client Sample ID: PZ-8
Lab Sample ID: 480-93653-10
Date Collected: 01/05/16 15:35
Matrix: Water
Date Received: 01/08/16 01:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	283132	01/12/16 19:18	SWO	TAL BUF

Client Sample ID: PZ-11R
Lab Sample ID: 480-93653-11
Date Collected: 01/07/16 11:45
Matrix: Water
Date Received: 01/08/16 01:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	283132	01/12/16 19:43	SWO	TAL BUF

Client Sample ID: PZ-13R
Lab Sample ID: 480-93653-12
Date Collected: 01/07/16 11:55
Matrix: Water
Date Received: 01/08/16 01:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	283295	01/13/16 03:39	GTG	TAL BUF

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Client Sample ID: A2-PZ-1
Lab Sample ID: 480-93653-13
Date Collected: 01/06/16 11:15
Matrix: Water
Date Received: 01/08/16 01:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		100	283295	01/13/16 04:04	GTG	TAL BUF
Total/NA	Analysis	8260C	DL	200	283332	01/13/16 13:54	SWO	TAL BUF

Client Sample ID: A2-PZ-2
Lab Sample ID: 480-93653-14
Date Collected: 01/06/16 13:50
Matrix: Water
Date Received: 01/08/16 01:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	283295	01/13/16 04:30	GTG	TAL BUF
Total/NA	Analysis	8260C	DL	20	283332	01/13/16 14:20	SWO	TAL BUF

Client Sample ID: A1-PZ-2
Lab Sample ID: 480-93653-15
Date Collected: 01/07/16 10:10
Matrix: Water
Date Received: 01/08/16 01:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	283295	01/13/16 04:55	GTG	TAL BUF

Client Sample ID: MW-1-S/D
Lab Sample ID: 480-93653-16
Date Collected: 01/06/16 14:45
Matrix: Water
Date Received: 01/08/16 01:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	283295	01/13/16 05:21	GTG	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-16

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation- Groundwater

TestAmerica Job ID: 480-93653-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF

Protocol References:

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: L. Best	Lab PM: VanDette, Ryan T	Carrier Tracking No(s):	COC No: 480-75901-19158.1
Client Contact: Bob Mahoney	Phone: (585) 301-0166	E-Mail: ryan.vandette@testamericainc.com		Page:
Company: Stantec Consulting Services Inc				
Address: 61 Commercial Street	Due Date Requested:			
City: Rochester	TAT Requested (days): 10			
State, Zip: NY, 14614				
Phone: (585) 413-5301	PO #: Purchase Order not required			
Email: bob.mahoney@stantec.com	WO #: 10137			
Project Name: LMC - Quarterly Event Desc: Lockeed Martin Corp - Quarterly	Project #: 48002828			
Site: New York	SSOW#:			

Analysis

480-93653 Chain of Custody

- Hexane
- None
- AsNaO2
- Na2O4S
- Na2SO4
- Q - Na2SO3
- R - Na2S2SO3
- S - H2SO4
- T - TSP Dodecahydrate
- U - Acetone
- V - MCAA
- W - ph 4-5
- Z - other (specify)
- F - MeOH
- G - Amchlor
- H - Ascorbic Acid
- I - Ice
- J - DI Water
- K - EDTA
- L - EDA

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL list OLM04.2	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
~~TRIP BLANK~~				~~Water~~					
~~Trip Blank~~ TRIP BLANK	1/5/16	09:00	G	Water			X	2	
MW-3	1/6/16	09:32	G	Water			X	3	
MW-1	1/6/16	14:40	G	Water			X	3	
MW-13S	1/7/16	09:10	G	Water			X	1	
MW-18	1/6/16	14:20	G	Water			X	3	
MW-20	1/7/16	09:50	G	Water			X	3	
MW-21	1/6/16	12:00	G	Water			X	9	MS/MSD
PZ-5	1/6/16	15:35	G	Water			X	1	
PZ-6	1/6/16	15:30	G	Water			X	2	
PZ-8	1/5/16	15:35	G	Water			X	1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) NYSDEC Category B deliverables + NYSDEC EQUIS EDD

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Lana Best	1/7/16 15:02	Stantec	Alexander Rey	1/7/16 1502	SXR
Alexander Rey	1/7/16 1900	SXR	[illegible]	1/8/16 0125	TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.5 #2

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: L. Best	Lab PM: VanDette, Ryan T	Carrier Tracking No(s):	COC No: 480-75901-19158.2
Client Contact: Bob Mahoney	Phone: (585) 301-0166	E-Mail: ryan.vandette@testamericainc.com		Page: Page 2 of 2
Company: Stantec Consulting Services Inc				Job #:
Address: 61 Commercial Street	Due Date Requested:			
City: Rochester	TAT Requested (days): 10			
State, Zip: NY, 14614				
Phone: (585) 413-5301	PO #: Purchase Order not required			
Email: bob.mahoney@stantec.com	WO #: 10137			
Project Name: LMC - Quarterly Event Desc: Lockeed Martin Corp - Quarterly	Project #: 48002828			
Site: New York	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL list OLM04.2	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
PZ-11R	1/7/16	11:45	G	Water			X		
PZ-13R	1/7/16	11:55	G	Water			X		
A2-PZ-1	1/6/16	11:15	G	Water			X	3	
A2-PZ-2	1/6/16	13:50	G	Water			X	3	
A1-PZ-2	1/7/16	10:10	G	Water			X	3	
MW-1-S/D	1/6/16	14:45	G	Water			X	3	
PZ-5*	1/5/16	15:25	G	Water			X	3	ON HOLD* (only analyze if PZ-5 sample from 1/6/16 does not have enough volume)
				Water					
				Water					
	Laura Best	1/7/16		Water					
				Water					

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, (IV), Other (specify) NYSDEC ASP Category B deliverables + NYSDEC EQuIS EDD

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Laura Best	1/7/16 15:02	Stantec	Alexander Perez	1/7/16 1502	SVR
Alexander Perez	1/7/16 1900	SVR	[illegible]	1/8/16 0125	TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		4.2

483325 - Syracuse SC
483325 - Syracuse SC
Page 56 of 57
1/22/2016

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 480-93653-1

Login Number: 93653
List Number: 1
Creator: Williams, Christopher S

List Source: TestAmerica Buffalo

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	STANTEC
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	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-97868-1
Client Project/Site: Lockheed Martin Corp - Quarterly
Sampling Event: Lockheed Martin Corp - Quarterly

For:
Stantec Consulting Services Inc
61 Commercial Street
Rochester, New York 14614

Attn: Bob Mahoney

Authorized for release by:
4/21/2016 5:26:37 PM

Ryan VanDette, Project Manager II
(716)504-9830
ryan.vandette@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-97868-1	Trip Blank	Water	04/06/16 08:00	04/08/16 02:45
480-97868-2	MW-3	WATER	04/06/16 09:50	04/08/16 02:45
480-97868-3	MW-1	Water	04/06/16 13:10	04/08/16 02:45
480-97868-4	MW-18	Water	04/06/16 13:50	04/08/16 02:45
480-97868-5	MW-20	Water	04/06/16 14:55	04/08/16 02:45
480-97868-6	MW-21	Water	04/06/16 16:25	04/08/16 02:45
480-97868-7	PZ-5	Water	04/07/16 08:25	04/08/16 02:45
480-97868-8	PZ-6	Water	04/07/16 08:35	04/08/16 02:45
480-97868-9	PZ-8	Water	04/07/16 08:15	04/08/16 02:45
480-97868-10	PZ-11R	Water	04/07/16 10:00	04/08/16 02:45
480-97868-11	PZ-13R	Water	04/07/16 10:15	04/08/16 02:45
480-97868-12	A2-PZ-1	Water	04/06/16 11:25	04/08/16 02:45
480-97868-13	A2-PZ-2	Water	04/06/16 11:30	04/08/16 02:45
480-97868-14	A1-PZ-2	Water	04/06/16 15:10	04/08/16 02:45
480-97868-15	MW-3-S/D	Water	04/06/16 09:55	04/08/16 02:45

Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-97868-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-97868-1

Comments
No additional comments.

Receipt
The samples were received on 4/8/2016 2:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.1º C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-295816 recovered above the upper control limit for Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The following samples are impacted: Trip Blank (480-97868-1), MW-3 (480-97868-2), MW-1 (480-97868-3), MW-18 (480-97868-4), MW-20 (480-97868-5), MW-21 (480-97868-6), PZ-5 (480-97868-7), PZ-6 (480-97868-8), PZ-8 (480-97868-9), PZ-11R (480-97868-10) and PZ-13R (480-97868-11).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-295816 recovered outside acceptance criteria, low biased, for 1,1,2,2-Tetrachloroethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. Trip Blank (480-97868-1), MW-3 (480-97868-2), MW-1 (480-97868-3), MW-18 (480-97868-4), MW-20 (480-97868-5), MW-21 (480-97868-6), PZ-5 (480-97868-7), PZ-6 (480-97868-8), PZ-8 (480-97868-9), PZ-11R (480-97868-10) and PZ-13R (480-97868-11).

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-18 (480-97868-4), MW-18 (480-97868-4[MS]), MW-18 (480-97868-4[MSD]), PZ-5 (480-97868-7) and PZ-8 (480-97868-9). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: MW-20 (480-97868-5) and MW-21 (480-97868-6). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: PZ-11R (480-97868-10). The sample was analyzed within 7 days per EPA recommendation.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-296032 recovered outside acceptance criteria, low biased, for 1,1,2,2-Tetrachloroethane, 4-Methyl-2-pentanone (MIBK) and 2-Hexanone. A reporting limit (RL) standard was analyzed, and the target analytes were detected. Since the associated samples were non-detect for these analytes, the data have been reported. The following samples are impacted: A2-PZ-1 (480-97868-12), A2-PZ-2 (480-97868-13) and A1-PZ-2 (480-97868-14).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-296032 recovered above the upper control limit for Trichlorofluoromethane. The samples associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported. The following samples are impacted: A2-PZ-1 (480-97868-12), A2-PZ-2 (480-97868-13) and A1-PZ-2 (480-97868-14).

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 480-296032 recovered outside control limits for the following analyte: Dichlorodifluoromethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. The following samples are impacted: A2-PZ-1 (480-97868-12), A2-PZ-2 (480-97868-13) and A1-PZ-2 (480-97868-14).

Method(s) 8260C: The following samples were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: A2-PZ-2 (480-97868-13) and A1-PZ-2 (480-97868-14).

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: A2-PZ-1 (480-97868-12) and A2-PZ-2 (480-97868-13). Elevated reporting limits (RLs) are provided.

Job ID: 480-97868-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

Method(s) 8260C: The results reported for the following sample do not concur with results previously reported for this site: MW-18 (480-97868-4). Reanalysis was performed, and the results confirmed.

Method(s) 8260C: The results reported for the following sample does not concur with results previously reported for this site: MW-3-S/D (480-97868-15). Reanalysis was performed, and the results confirmed.

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

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Client Sample ID: Trip Blank — Lab Sample ID: 480-97868-1

No Detections.

Client Sample ID: MW-3 — Lab Sample ID: 480-97868-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.7		1.0	0.38	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	13		1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	19		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	11		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	3.3		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: MW-1 — Lab Sample ID: 480-97868-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.7		1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	0.29	J	1.0	0.29	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	18		1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	29		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	6.8		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	1.6		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: MW-18 — Lab Sample ID: 480-97868-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	210		20	16	ug/L	20		8260C	Total/NA
Tetrachloroethene	480		20	7.2	ug/L	20		8260C	Total/NA
Trichloroethene	170		20	9.2	ug/L	20		8260C	Total/NA

Client Sample ID: MW-20 — Lab Sample ID: 480-97868-5

No Detections.

Client Sample ID: MW-21 — Lab Sample ID: 480-97868-6

No Detections.

Client Sample ID: PZ-5 — Lab Sample ID: 480-97868-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	24		5.0	4.1	ug/L	5		8260C	Total/NA
Tetrachloroethene	170		5.0	1.8	ug/L	5		8260C	Total/NA
Trichloroethene	42		5.0	2.3	ug/L	5		8260C	Total/NA

Client Sample ID: PZ-6 — Lab Sample ID: 480-97868-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.4	J	10	3.0	ug/L	1		8260C	Total/NA
Carbon disulfide	0.26	J	1.0	0.19	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	9.5		1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	33		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	14		1.0	0.46	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Client Sample ID: PZ-8 — Lab Sample ID: 480-97868-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.9	J	5.0	1.9	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	20		5.0	4.1	ug/L	5		8260C	Total/NA
Tetrachloroethene	160		5.0	1.8	ug/L	5		8260C	Total/NA
Trichloroethene	120		5.0	2.3	ug/L	5		8260C	Total/NA

Client Sample ID: PZ-11R — Lab Sample ID: 480-97868-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.6		1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	1.9		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	2.5		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: PZ-13R — Lab Sample ID: 480-97868-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.59	J	1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	2.0		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: A2-PZ-1 — Lab Sample ID: 480-97868-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	260		200	62	ug/L	200		8260C	Total/NA
1,1-Dichloroethane	990		200	76	ug/L	200		8260C	Total/NA
cis-1,2-Dichloroethene	20000		200	160	ug/L	200		8260C	Total/NA
Trichloroethene	830		200	92	ug/L	200		8260C	Total/NA
Vinyl chloride	1400		200	180	ug/L	200		8260C	Total/NA

Client Sample ID: A2-PZ-2 — Lab Sample ID: 480-97868-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	120		20	16	ug/L	20		8260C	Total/NA
Tetrachloroethene	720		20	7.2	ug/L	20		8260C	Total/NA
Trichloroethene	260		20	9.2	ug/L	20		8260C	Total/NA

Client Sample ID: A1-PZ-2 — Lab Sample ID: 480-97868-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.4	J	10	3.0	ug/L	1		8260C	Total/NA

Client Sample ID: MW-3-S/D — Lab Sample ID: 480-97868-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.6		1.0	0.38	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	14		1.0	0.81	ug/L	1		8260C	Total/NA
Methylcyclohexane	0.51	J	1.0	0.16	ug/L	1		8260C	Total/NA
Tetrachloroethene	17		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	11		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	2.1		1.0	0.90	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-97868-1

Date Collected: 04/06/16 08:00

Matrix: Water

Date Received: 04/08/16 02:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/14/16 14:21	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/14/16 14:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/14/16 14:21	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/14/16 14:21	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/14/16 14:21	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/14/16 14:21	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/14/16 14:21	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/14/16 14:21	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/14/16 14:21	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/14/16 14:21	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/14/16 14:21	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/14/16 14:21	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/14/16 14:21	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/14/16 14:21	1
2-Butanone (MEK)	ND		10	1.3	ug/L			04/14/16 14:21	1
2-Hexanone	ND		5.0	1.2	ug/L			04/14/16 14:21	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/14/16 14:21	1
Acetone	ND		10	3.0	ug/L			04/14/16 14:21	1
Benzene	ND		1.0	0.41	ug/L			04/14/16 14:21	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/14/16 14:21	1
Bromoform	ND		1.0	0.26	ug/L			04/14/16 14:21	1
Bromomethane	ND		1.0	0.69	ug/L			04/14/16 14:21	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/14/16 14:21	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/14/16 14:21	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/14/16 14:21	1
Chloroethane	ND		1.0	0.32	ug/L			04/14/16 14:21	1
Chloroform	ND		1.0	0.34	ug/L			04/14/16 14:21	1
Chloromethane	ND		1.0	0.35	ug/L			04/14/16 14:21	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/14/16 14:21	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/14/16 14:21	1
Cyclohexane	ND		1.0	0.18	ug/L			04/14/16 14:21	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/14/16 14:21	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/14/16 14:21	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/14/16 14:21	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/14/16 14:21	1
Methyl acetate	ND		2.5	1.3	ug/L			04/14/16 14:21	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/14/16 14:21	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/14/16 14:21	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/14/16 14:21	1
Styrene	ND		1.0	0.73	ug/L			04/14/16 14:21	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/14/16 14:21	1
Toluene	ND		1.0	0.51	ug/L			04/14/16 14:21	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/14/16 14:21	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/14/16 14:21	1
Trichloroethene	ND		1.0	0.46	ug/L			04/14/16 14:21	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/14/16 14:21	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/14/16 14:21	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/14/16 14:21	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-97868-1

Date Collected: 04/06/16 08:00

Matrix: Water

Date Received: 04/08/16 02:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		66 - 137		04/14/16 14:21	1
4-Bromofluorobenzene (Surr)	103		73 - 120		04/14/16 14:21	1
Toluene-d8 (Surr)	101		71 - 126		04/14/16 14:21	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Client Sample ID: MW-3

Date Collected: 04/06/16 09:50
Date Received: 04/08/16 02:45

Lab Sample ID: 480-97868-2

Matrix: WATER

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/14/16 14:48	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/14/16 14:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/14/16 14:48	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/14/16 14:48	1
1,1-Dichloroethane	**1.7**		1.0	0.38	ug/L			04/14/16 14:48	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/14/16 14:48	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/14/16 14:48	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/14/16 14:48	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/14/16 14:48	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/14/16 14:48	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/14/16 14:48	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/14/16 14:48	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/14/16 14:48	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/14/16 14:48	1
2-Butanone (MEK)	ND		10	1.3	ug/L			04/14/16 14:48	1
2-Hexanone	ND		5.0	1.2	ug/L			04/14/16 14:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/14/16 14:48	1
Acetone	ND		10	3.0	ug/L			04/14/16 14:48	1
Benzene	ND		1.0	0.41	ug/L			04/14/16 14:48	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/14/16 14:48	1
Bromoform	ND		1.0	0.26	ug/L			04/14/16 14:48	1
Bromomethane	ND		1.0	0.69	ug/L			04/14/16 14:48	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/14/16 14:48	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/14/16 14:48	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/14/16 14:48	1
Chloroethane	ND		1.0	0.32	ug/L			04/14/16 14:48	1
Chloroform	ND		1.0	0.34	ug/L			04/14/16 14:48	1
Chloromethane	ND		1.0	0.35	ug/L			04/14/16 14:48	1
cis-1,2-Dichloroethene	**13**		1.0	0.81	ug/L			04/14/16 14:48	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/14/16 14:48	1
Cyclohexane	ND		1.0	0.18	ug/L			04/14/16 14:48	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/14/16 14:48	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/14/16 14:48	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/14/16 14:48	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/14/16 14:48	1
Methyl acetate	ND		2.5	1.3	ug/L			04/14/16 14:48	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/14/16 14:48	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/14/16 14:48	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/14/16 14:48	1
Styrene	ND		1.0	0.73	ug/L			04/14/16 14:48	1
Tetrachloroethene	**19**		1.0	0.36	ug/L			04/14/16 14:48	1
Toluene	ND		1.0	0.51	ug/L			04/14/16 14:48	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/14/16 14:48	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/14/16 14:48	1
Trichloroethene	**11**		1.0	0.46	ug/L			04/14/16 14:48	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/14/16 14:48	1
Vinyl chloride	**3.3**		1.0	0.90	ug/L			04/14/16 14:48	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/14/16 14:48	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Client Sample ID: MW-3

Date Collected: 04/06/16 09:50
Date Received: 04/08/16 02:45

Lab Sample ID: 480-97868-2

Matrix: WATER

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		66 - 137		04/14/16 14:48	1
4-Bromofluorobenzene (Surr)	101		73 - 120		04/14/16 14:48	1
Toluene-d8 (Surr)	101		71 - 126		04/14/16 14:48	1

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Client Sample ID: MW-1

Lab Sample ID: 480-97868-3

Date Collected: 04/06/16 13:10

Matrix: Water

Date Received: 04/08/16 02:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/14/16 15:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/14/16 15:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/14/16 15:15	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/14/16 15:15	1
1,1-Dichloroethane	**2.7**		1.0	0.38	ug/L			04/14/16 15:15	1
1,1-Dichloroethene	**0.29**	**J**	1.0	0.29	ug/L			04/14/16 15:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/14/16 15:15	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/14/16 15:15	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/14/16 15:15	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/14/16 15:15	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/14/16 15:15	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/14/16 15:15	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/14/16 15:15	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/14/16 15:15	1
2-Butanone (MEK)	ND		10	1.3	ug/L			04/14/16 15:15	1
2-Hexanone	ND		5.0	1.2	ug/L			04/14/16 15:15	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/14/16 15:15	1
Acetone	ND		10	3.0	ug/L			04/14/16 15:15	1
Benzene	ND		1.0	0.41	ug/L			04/14/16 15:15	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/14/16 15:15	1
Bromoform	ND		1.0	0.26	ug/L			04/14/16 15:15	1
Bromomethane	ND		1.0	0.69	ug/L			04/14/16 15:15	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/14/16 15:15	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/14/16 15:15	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/14/16 15:15	1
Chloroethane	ND		1.0	0.32	ug/L			04/14/16 15:15	1
Chloroform	ND		1.0	0.34	ug/L			04/14/16 15:15	1
Chloromethane	ND		1.0	0.35	ug/L			04/14/16 15:15	1
cis-1,2-Dichloroethene	**18**		1.0	0.81	ug/L			04/14/16 15:15	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/14/16 15:15	1
Cyclohexane	ND		1.0	0.18	ug/L			04/14/16 15:15	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/14/16 15:15	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/14/16 15:15	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/14/16 15:15	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/14/16 15:15	1
Methyl acetate	ND		2.5	1.3	ug/L			04/14/16 15:15	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/14/16 15:15	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/14/16 15:15	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/14/16 15:15	1
Styrene	ND		1.0	0.73	ug/L			04/14/16 15:15	1
Tetrachloroethene	**29**		1.0	0.36	ug/L			04/14/16 15:15	1
Toluene	ND		1.0	0.51	ug/L			04/14/16 15:15	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/14/16 15:15	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/14/16 15:15	1
Trichloroethene	**6.8**		1.0	0.46	ug/L			04/14/16 15:15	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/14/16 15:15	1
Vinyl chloride	**1.6**		1.0	0.90	ug/L			04/14/16 15:15	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/14/16 15:15	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Client Sample ID: MW-1

Lab Sample ID: 480-97868-3

Date Collected: 04/06/16 13:10

Matrix: Water

Date Received: 04/08/16 02:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		66 - 137		04/14/16 15:15	1
4-Bromofluorobenzene (Surr)	104		73 - 120		04/14/16 15:15	1
Toluene-d8 (Surr)	102		71 - 126		04/14/16 15:15	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Client Sample ID: MW-18

Lab Sample ID: 480-97868-4

Date Collected: 04/06/16 13:50
Matrix: Water
Date Received: 04/08/16 02:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		20	16	ug/L			04/14/16 15:42	20
1,1,2,2-Tetrachloroethane	ND		20	4.2	ug/L			04/14/16 15:42	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	6.2	ug/L			04/14/16 15:42	20
1,1,2-Trichloroethane	ND		20	4.6	ug/L			04/14/16 15:42	20
1,1-Dichloroethane	ND		20	7.6	ug/L			04/14/16 15:42	20
1,1-Dichloroethene	ND		20	5.8	ug/L			04/14/16 15:42	20
1,2,4-Trichlorobenzene	ND		20	8.2	ug/L			04/14/16 15:42	20
1,2-Dibromo-3-Chloropropane	ND		20	7.8	ug/L			04/14/16 15:42	20
1,2-Dibromoethane	ND		20	15	ug/L			04/14/16 15:42	20
1,2-Dichlorobenzene	ND		20	16	ug/L			04/14/16 15:42	20
1,2-Dichloroethane	ND		20	4.2	ug/L			04/14/16 15:42	20
1,2-Dichloropropane	ND		20	14	ug/L			04/14/16 15:42	20
1,3-Dichlorobenzene	ND		20	16	ug/L			04/14/16 15:42	20
1,4-Dichlorobenzene	ND		20	17	ug/L			04/14/16 15:42	20
2-Butanone (MEK)	ND		200	26	ug/L			04/14/16 15:42	20
2-Hexanone	ND		100	25	ug/L			04/14/16 15:42	20
4-Methyl-2-pentanone (MIBK)	ND		100	42	ug/L			04/14/16 15:42	20
Acetone	ND		200	60	ug/L			04/14/16 15:42	20
Benzene	ND		20	8.2	ug/L			04/14/16 15:42	20
Bromodichloromethane	ND		20	7.8	ug/L			04/14/16 15:42	20
Bromoform	ND		20	5.2	ug/L			04/14/16 15:42	20
Bromomethane	ND		20	14	ug/L			04/14/16 15:42	20
Carbon disulfide	ND		20	3.8	ug/L			04/14/16 15:42	20
Carbon tetrachloride	ND		20	5.4	ug/L			04/14/16 15:42	20
Chlorobenzene	ND		20	15	ug/L			04/14/16 15:42	20
Chloroethane	ND		20	6.4	ug/L			04/14/16 15:42	20
Chloroform	ND		20	6.8	ug/L			04/14/16 15:42	20
Chloromethane	ND		20	7.0	ug/L			04/14/16 15:42	20
cis-1,2-Dichloroethene	**210**		20	16	ug/L			04/14/16 15:42	20
cis-1,3-Dichloropropene	ND		20	7.2	ug/L			04/14/16 15:42	20
Cyclohexane	ND		20	3.6	ug/L			04/14/16 15:42	20
Dibromochloromethane	ND		20	6.4	ug/L			04/14/16 15:42	20
Dichlorodifluoromethane	ND		20	14	ug/L			04/14/16 15:42	20
Ethylbenzene	ND		20	15	ug/L			04/14/16 15:42	20
Isopropylbenzene	ND		20	16	ug/L			04/14/16 15:42	20
Methyl acetate	ND	F1	50	26	ug/L			04/14/16 15:42	20
Methyl tert-butyl ether	ND		20	3.2	ug/L			04/14/16 15:42	20
Methylcyclohexane	ND		20	3.2	ug/L			04/14/16 15:42	20
Methylene Chloride	ND		20	8.8	ug/L			04/14/16 15:42	20
Styrene	ND		20	15	ug/L			04/14/16 15:42	20
Tetrachloroethene	**480**		20	7.2	ug/L			04/14/16 15:42	20
Toluene	ND		20	10	ug/L			04/14/16 15:42	20
trans-1,2-Dichloroethene	ND		20	18	ug/L			04/14/16 15:42	20
trans-1,3-Dichloropropene	ND		20	7.4	ug/L			04/14/16 15:42	20
Trichloroethene	**170**		20	9.2	ug/L			04/14/16 15:42	20
Trichlorofluoromethane	ND		20	18	ug/L			04/14/16 15:42	20
Vinyl chloride	ND		20	18	ug/L			04/14/16 15:42	20
Xylenes, Total	ND		40	13	ug/L			04/14/16 15:42	20

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Client Sample ID: MW-18
Date Collected: 04/06/16 13:50
Date Received: 04/08/16 02:45

Lab Sample ID: 480-97868-4
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		66 - 137		04/14/16 15:42	20
4-Bromofluorobenzene (Surr)	104		73 - 120		04/14/16 15:42	20
Toluene-d8 (Surr)	101		71 - 126		04/14/16 15:42	20

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Client Sample ID: MW-20

Lab Sample ID: 480-97868-5

Date Collected: 04/06/16 14:55

Matrix: Water

Date Received: 04/08/16 02:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			04/14/16 16:08	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			04/14/16 16:08	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			04/14/16 16:08	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			04/14/16 16:08	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			04/14/16 16:08	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			04/14/16 16:08	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			04/14/16 16:08	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			04/14/16 16:08	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			04/14/16 16:08	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			04/14/16 16:08	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			04/14/16 16:08	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			04/14/16 16:08	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			04/14/16 16:08	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			04/14/16 16:08	5
2-Butanone (MEK)	ND		50	6.6	ug/L			04/14/16 16:08	5
2-Hexanone	ND		25	6.2	ug/L			04/14/16 16:08	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			04/14/16 16:08	5
Acetone	ND		50	15	ug/L			04/14/16 16:08	5
Benzene	ND		5.0	2.1	ug/L			04/14/16 16:08	5
Bromodichloromethane	ND		5.0	2.0	ug/L			04/14/16 16:08	5
Bromoform	ND		5.0	1.3	ug/L			04/14/16 16:08	5
Bromomethane	ND		5.0	3.5	ug/L			04/14/16 16:08	5
Carbon disulfide	ND		5.0	0.95	ug/L			04/14/16 16:08	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			04/14/16 16:08	5
Chlorobenzene	ND		5.0	3.8	ug/L			04/14/16 16:08	5
Chloroethane	ND		5.0	1.6	ug/L			04/14/16 16:08	5
Chloroform	ND		5.0	1.7	ug/L			04/14/16 16:08	5
Chloromethane	ND		5.0	1.8	ug/L			04/14/16 16:08	5
cis-1,2-Dichloroethene	ND		5.0	4.1	ug/L			04/14/16 16:08	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			04/14/16 16:08	5
Cyclohexane	ND		5.0	0.90	ug/L			04/14/16 16:08	5
Dibromochloromethane	ND		5.0	1.6	ug/L			04/14/16 16:08	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			04/14/16 16:08	5
Ethylbenzene	ND		5.0	3.7	ug/L			04/14/16 16:08	5
Isopropylbenzene	ND		5.0	4.0	ug/L			04/14/16 16:08	5
Methyl acetate	ND		13	6.5	ug/L			04/14/16 16:08	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			04/14/16 16:08	5
Methylcyclohexane	ND		5.0	0.80	ug/L			04/14/16 16:08	5
Methylene Chloride	ND		5.0	2.2	ug/L			04/14/16 16:08	5
Styrene	ND		5.0	3.7	ug/L			04/14/16 16:08	5
Tetrachloroethene	ND		5.0	1.8	ug/L			04/14/16 16:08	5
Toluene	ND		5.0	2.6	ug/L			04/14/16 16:08	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			04/14/16 16:08	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			04/14/16 16:08	5
Trichloroethene	ND		5.0	2.3	ug/L			04/14/16 16:08	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			04/14/16 16:08	5
Vinyl chloride	ND		5.0	4.5	ug/L			04/14/16 16:08	5
Xylenes, Total	ND		10	3.3	ug/L			04/14/16 16:08	5

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Client Sample ID: MW-20

Date Collected: 04/06/16 14:55
Date Received: 04/08/16 02:45

Lab Sample ID: 480-97868-5

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		66 - 137		04/14/16 16:08	5
4-Bromofluorobenzene (Surr)	102		73 - 120		04/14/16 16:08	5
Toluene-d8 (Surr)	101		71 - 126		04/14/16 16:08	5

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Client Sample ID: MW-21

Date Collected: 04/06/16 16:25
Date Received: 04/08/16 02:45

Lab Sample ID: 480-97868-6

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			04/14/16 16:35	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			04/14/16 16:35	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			04/14/16 16:35	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			04/14/16 16:35	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			04/14/16 16:35	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			04/14/16 16:35	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			04/14/16 16:35	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			04/14/16 16:35	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			04/14/16 16:35	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			04/14/16 16:35	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			04/14/16 16:35	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			04/14/16 16:35	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			04/14/16 16:35	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			04/14/16 16:35	2
2-Butanone (MEK)	ND		20	2.6	ug/L			04/14/16 16:35	2
2-Hexanone	ND		10	2.5	ug/L			04/14/16 16:35	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			04/14/16 16:35	2
Acetone	ND		20	6.0	ug/L			04/14/16 16:35	2
Benzene	ND		2.0	0.82	ug/L			04/14/16 16:35	2
Bromodichloromethane	ND		2.0	0.78	ug/L			04/14/16 16:35	2
Bromoform	ND		2.0	0.52	ug/L			04/14/16 16:35	2
Bromomethane	ND		2.0	1.4	ug/L			04/14/16 16:35	2
Carbon disulfide	ND		2.0	0.38	ug/L			04/14/16 16:35	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			04/14/16 16:35	2
Chlorobenzene	ND		2.0	1.5	ug/L			04/14/16 16:35	2
Chloroethane	ND		2.0	0.64	ug/L			04/14/16 16:35	2
Chloroform	ND		2.0	0.68	ug/L			04/14/16 16:35	2
Chloromethane	ND		2.0	0.70	ug/L			04/14/16 16:35	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			04/14/16 16:35	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			04/14/16 16:35	2
Cyclohexane	ND		2.0	0.36	ug/L			04/14/16 16:35	2
Dibromochloromethane	ND		2.0	0.64	ug/L			04/14/16 16:35	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			04/14/16 16:35	2
Ethylbenzene	ND		2.0	1.5	ug/L			04/14/16 16:35	2
Isopropylbenzene	ND		2.0	1.6	ug/L			04/14/16 16:35	2
Methyl acetate	ND		5.0	2.6	ug/L			04/14/16 16:35	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			04/14/16 16:35	2
Methylcyclohexane	ND		2.0	0.32	ug/L			04/14/16 16:35	2
Methylene Chloride	ND		2.0	0.88	ug/L			04/14/16 16:35	2
Styrene	ND		2.0	1.5	ug/L			04/14/16 16:35	2
Tetrachloroethene	ND		2.0	0.72	ug/L			04/14/16 16:35	2
Toluene	ND		2.0	1.0	ug/L			04/14/16 16:35	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			04/14/16 16:35	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			04/14/16 16:35	2
Trichloroethene	ND		2.0	0.92	ug/L			04/14/16 16:35	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			04/14/16 16:35	2
Vinyl chloride	ND		2.0	1.8	ug/L			04/14/16 16:35	2
Xylenes, Total	ND		4.0	1.3	ug/L			04/14/16 16:35	2

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Client Sample ID: MW-21

Lab Sample ID: 480-97868-6

Date Collected: 04/06/16 16:25

Matrix: Water

Date Received: 04/08/16 02:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		66 - 137		04/14/16 16:35	2
4-Bromofluorobenzene (Surr)	103		73 - 120		04/14/16 16:35	2
Toluene-d8 (Surr)	100		71 - 126		04/14/16 16:35	2

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Client Sample ID: PZ-5

Lab Sample ID: 480-97868-7

Date Collected: 04/07/16 08:25

Matrix: Water

Date Received: 04/08/16 02:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			04/14/16 17:02	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			04/14/16 17:02	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			04/14/16 17:02	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			04/14/16 17:02	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			04/14/16 17:02	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			04/14/16 17:02	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			04/14/16 17:02	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			04/14/16 17:02	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			04/14/16 17:02	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			04/14/16 17:02	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			04/14/16 17:02	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			04/14/16 17:02	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			04/14/16 17:02	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			04/14/16 17:02	5
2-Butanone (MEK)	ND		50	6.6	ug/L			04/14/16 17:02	5
2-Hexanone	ND		25	6.2	ug/L			04/14/16 17:02	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			04/14/16 17:02	5
Acetone	ND		50	15	ug/L			04/14/16 17:02	5
Benzene	ND		5.0	2.1	ug/L			04/14/16 17:02	5
Bromodichloromethane	ND		5.0	2.0	ug/L			04/14/16 17:02	5
Bromoform	ND		5.0	1.3	ug/L			04/14/16 17:02	5
Bromomethane	ND		5.0	3.5	ug/L			04/14/16 17:02	5
Carbon disulfide	ND		5.0	0.95	ug/L			04/14/16 17:02	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			04/14/16 17:02	5
Chlorobenzene	ND		5.0	3.8	ug/L			04/14/16 17:02	5
Chloroethane	ND		5.0	1.6	ug/L			04/14/16 17:02	5
Chloroform	ND		5.0	1.7	ug/L			04/14/16 17:02	5
Chloromethane	ND		5.0	1.8	ug/L			04/14/16 17:02	5
cis-1,2-Dichloroethene	**24**		5.0	4.1	ug/L			04/14/16 17:02	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			04/14/16 17:02	5
Cyclohexane	ND		5.0	0.90	ug/L			04/14/16 17:02	5
Dibromochloromethane	ND		5.0	1.6	ug/L			04/14/16 17:02	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			04/14/16 17:02	5
Ethylbenzene	ND		5.0	3.7	ug/L			04/14/16 17:02	5
Isopropylbenzene	ND		5.0	4.0	ug/L			04/14/16 17:02	5
Methyl acetate	ND		13	6.5	ug/L			04/14/16 17:02	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			04/14/16 17:02	5
Methylcyclohexane	ND		5.0	0.80	ug/L			04/14/16 17:02	5
Methylene Chloride	ND		5.0	2.2	ug/L			04/14/16 17:02	5
Styrene	ND		5.0	3.7	ug/L			04/14/16 17:02	5
Tetrachloroethene	**170**		5.0	1.8	ug/L			04/14/16 17:02	5
Toluene	ND		5.0	2.6	ug/L			04/14/16 17:02	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			04/14/16 17:02	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			04/14/16 17:02	5
Trichloroethene	**42**		5.0	2.3	ug/L			04/14/16 17:02	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			04/14/16 17:02	5
Vinyl chloride	ND		5.0	4.5	ug/L			04/14/16 17:02	5
Xylenes, Total	ND		10	3.3	ug/L			04/14/16 17:02	5

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Client Sample ID: PZ-5

Lab Sample ID: 480-97868-7

Date Collected: 04/07/16 08:25

Matrix: Water

Date Received: 04/08/16 02:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		66 - 137		04/14/16 17:02	5
4-Bromofluorobenzene (Surr)	104		73 - 120		04/14/16 17:02	5
Toluene-d8 (Surr)	103		71 - 126		04/14/16 17:02	5

Client Sample ID: PZ-6

Lab Sample ID: 480-97868-8

Date Collected: 04/07/16 08:35

Matrix: Water

Date Received: 04/08/16 02:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/14/16 17:29	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/14/16 17:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/14/16 17:29	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/14/16 17:29	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/14/16 17:29	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/14/16 17:29	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/14/16 17:29	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/14/16 17:29	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/14/16 17:29	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/14/16 17:29	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/14/16 17:29	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/14/16 17:29	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/14/16 17:29	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/14/16 17:29	1
2-Butanone (MEK)	ND		10	1.3	ug/L			04/14/16 17:29	1
2-Hexanone	ND		5.0	1.2	ug/L			04/14/16 17:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/14/16 17:29	1
Acetone	**3.4**	**J**	10	3.0	ug/L			04/14/16 17:29	1
Benzene	ND		1.0	0.41	ug/L			04/14/16 17:29	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/14/16 17:29	1
Bromoform	ND		1.0	0.26	ug/L			04/14/16 17:29	1
Bromomethane	ND		1.0	0.69	ug/L			04/14/16 17:29	1
Carbon disulfide	**0.26**	**J**	1.0	0.19	ug/L			04/14/16 17:29	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/14/16 17:29	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/14/16 17:29	1
Chloroethane	ND		1.0	0.32	ug/L			04/14/16 17:29	1
Chloroform	ND		1.0	0.34	ug/L			04/14/16 17:29	1
Chloromethane	ND		1.0	0.35	ug/L			04/14/16 17:29	1
cis-1,2-Dichloroethene	**9.5**		1.0	0.81	ug/L			04/14/16 17:29	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/14/16 17:29	1
Cyclohexane	ND		1.0	0.18	ug/L			04/14/16 17:29	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/14/16 17:29	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/14/16 17:29	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/14/16 17:29	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/14/16 17:29	1
Methyl acetate	ND		2.5	1.3	ug/L			04/14/16 17:29	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/14/16 17:29	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/14/16 17:29	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/14/16 17:29	1
Styrene	ND		1.0	0.73	ug/L			04/14/16 17:29	1
Tetrachloroethene	**33**		1.0	0.36	ug/L			04/14/16 17:29	1
Toluene	ND		1.0	0.51	ug/L			04/14/16 17:29	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/14/16 17:29	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/14/16 17:29	1
Trichloroethene	**14**		1.0	0.46	ug/L			04/14/16 17:29	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/14/16 17:29	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/14/16 17:29	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/14/16 17:29	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Client Sample ID: PZ-6

Lab Sample ID: 480-97868-8

Date Collected: 04/07/16 08:35

Matrix: Water

Date Received: 04/08/16 02:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		66 - 137		04/14/16 17:29	1
4-Bromofluorobenzene (Surr)	106		73 - 120		04/14/16 17:29	1
Toluene-d8 (Surr)	103		71 - 126		04/14/16 17:29	1

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Client Sample ID: PZ-8

Lab Sample ID: 480-97868-9

Date Collected: 04/07/16 08:15

Matrix: Water

Date Received: 04/08/16 02:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			04/14/16 17:55	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			04/14/16 17:55	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			04/14/16 17:55	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			04/14/16 17:55	5
1,1-Dichloroethane	**1.9**	**J**	5.0	1.9	ug/L			04/14/16 17:55	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			04/14/16 17:55	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			04/14/16 17:55	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			04/14/16 17:55	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			04/14/16 17:55	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			04/14/16 17:55	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			04/14/16 17:55	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			04/14/16 17:55	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			04/14/16 17:55	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			04/14/16 17:55	5
2-Butanone (MEK)	ND		50	6.6	ug/L			04/14/16 17:55	5
2-Hexanone	ND		25	6.2	ug/L			04/14/16 17:55	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			04/14/16 17:55	5
Acetone	ND		50	15	ug/L			04/14/16 17:55	5
Benzene	ND		5.0	2.1	ug/L			04/14/16 17:55	5
Bromodichloromethane	ND		5.0	2.0	ug/L			04/14/16 17:55	5
Bromoform	ND		5.0	1.3	ug/L			04/14/16 17:55	5
Bromomethane	ND		5.0	3.5	ug/L			04/14/16 17:55	5
Carbon disulfide	ND		5.0	0.95	ug/L			04/14/16 17:55	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			04/14/16 17:55	5
Chlorobenzene	ND		5.0	3.8	ug/L			04/14/16 17:55	5
Chloroethane	ND		5.0	1.6	ug/L			04/14/16 17:55	5
Chloroform	ND		5.0	1.7	ug/L			04/14/16 17:55	5
Chloromethane	ND		5.0	1.8	ug/L			04/14/16 17:55	5
cis-1,2-Dichloroethene	**20**		5.0	4.1	ug/L			04/14/16 17:55	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			04/14/16 17:55	5
Cyclohexane	ND		5.0	0.90	ug/L			04/14/16 17:55	5
Dibromochloromethane	ND		5.0	1.6	ug/L			04/14/16 17:55	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			04/14/16 17:55	5
Ethylbenzene	ND		5.0	3.7	ug/L			04/14/16 17:55	5
Isopropylbenzene	ND		5.0	4.0	ug/L			04/14/16 17:55	5
Methyl acetate	ND		13	6.5	ug/L			04/14/16 17:55	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			04/14/16 17:55	5
Methylcyclohexane	ND		5.0	0.80	ug/L			04/14/16 17:55	5
Methylene Chloride	ND		5.0	2.2	ug/L			04/14/16 17:55	5
Styrene	ND		5.0	3.7	ug/L			04/14/16 17:55	5
Tetrachloroethene	**160**		5.0	1.8	ug/L			04/14/16 17:55	5
Toluene	ND		5.0	2.6	ug/L			04/14/16 17:55	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			04/14/16 17:55	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			04/14/16 17:55	5
Trichloroethene	**120**		5.0	2.3	ug/L			04/14/16 17:55	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			04/14/16 17:55	5
Vinyl chloride	ND		5.0	4.5	ug/L			04/14/16 17:55	5
Xylenes, Total	ND		10	3.3	ug/L			04/14/16 17:55	5

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Client Sample ID: PZ-8

Lab Sample ID: 480-97868-9

Date Collected: 04/07/16 08:15

Matrix: Water

Date Received: 04/08/16 02:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		66 - 137		04/14/16 17:55	5
4-Bromofluorobenzene (Surr)	101		73 - 120		04/14/16 17:55	5
Toluene-d8 (Surr)	99		71 - 126		04/14/16 17:55	5

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Client Sample ID: PZ-11R

Lab Sample ID: 480-97868-10

Date Collected: 04/07/16 10:00

Matrix: Water

Date Received: 04/08/16 02:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/14/16 18:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/14/16 18:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/14/16 18:22	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/14/16 18:22	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/14/16 18:22	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/14/16 18:22	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/14/16 18:22	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/14/16 18:22	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/14/16 18:22	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/14/16 18:22	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/14/16 18:22	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/14/16 18:22	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/14/16 18:22	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/14/16 18:22	1
2-Butanone (MEK)	ND		10	1.3	ug/L			04/14/16 18:22	1
2-Hexanone	ND		5.0	1.2	ug/L			04/14/16 18:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/14/16 18:22	1
Acetone	ND		10	3.0	ug/L			04/14/16 18:22	1
Benzene	ND		1.0	0.41	ug/L			04/14/16 18:22	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/14/16 18:22	1
Bromoform	ND		1.0	0.26	ug/L			04/14/16 18:22	1
Bromomethane	ND		1.0	0.69	ug/L			04/14/16 18:22	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/14/16 18:22	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/14/16 18:22	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/14/16 18:22	1
Chloroethane	ND		1.0	0.32	ug/L			04/14/16 18:22	1
Chloroform	ND		1.0	0.34	ug/L			04/14/16 18:22	1
Chloromethane	ND		1.0	0.35	ug/L			04/14/16 18:22	1
cis-1,2-Dichloroethene	**1.6**		1.0	0.81	ug/L			04/14/16 18:22	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/14/16 18:22	1
Cyclohexane	ND		1.0	0.18	ug/L			04/14/16 18:22	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/14/16 18:22	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/14/16 18:22	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/14/16 18:22	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/14/16 18:22	1
Methyl acetate	ND		2.5	1.3	ug/L			04/14/16 18:22	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/14/16 18:22	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/14/16 18:22	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/14/16 18:22	1
Styrene	ND		1.0	0.73	ug/L			04/14/16 18:22	1
Tetrachloroethene	**1.9**		1.0	0.36	ug/L			04/14/16 18:22	1
Toluene	ND		1.0	0.51	ug/L			04/14/16 18:22	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/14/16 18:22	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/14/16 18:22	1
Trichloroethene	**2.5**		1.0	0.46	ug/L			04/14/16 18:22	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/14/16 18:22	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/14/16 18:22	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/14/16 18:22	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Client Sample ID: PZ-11R
Date Collected: 04/07/16 10:00
Date Received: 04/08/16 02:45

Lab Sample ID: 480-97868-10
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		66 - 137		04/14/16 18:22	1
4-Bromofluorobenzene (Surr)	104		73 - 120		04/14/16 18:22	1
Toluene-d8 (Surr)	102		71 - 126		04/14/16 18:22	1

Client Sample ID: PZ-13R

Lab Sample ID: 480-97868-11

Date Collected: 04/07/16 10:15

Matrix: Water

Date Received: 04/08/16 02:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/14/16 18:49	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/14/16 18:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/14/16 18:49	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/14/16 18:49	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/14/16 18:49	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/14/16 18:49	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/14/16 18:49	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/14/16 18:49	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/14/16 18:49	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/14/16 18:49	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/14/16 18:49	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/14/16 18:49	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/14/16 18:49	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/14/16 18:49	1
2-Butanone (MEK)	ND		10	1.3	ug/L			04/14/16 18:49	1
2-Hexanone	ND		5.0	1.2	ug/L			04/14/16 18:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/14/16 18:49	1
Acetone	ND		10	3.0	ug/L			04/14/16 18:49	1
Benzene	ND		1.0	0.41	ug/L			04/14/16 18:49	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/14/16 18:49	1
Bromoform	ND		1.0	0.26	ug/L			04/14/16 18:49	1
Bromomethane	ND		1.0	0.69	ug/L			04/14/16 18:49	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/14/16 18:49	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/14/16 18:49	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/14/16 18:49	1
Chloroethane	ND		1.0	0.32	ug/L			04/14/16 18:49	1
Chloroform	ND		1.0	0.34	ug/L			04/14/16 18:49	1
Chloromethane	ND		1.0	0.35	ug/L			04/14/16 18:49	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/14/16 18:49	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/14/16 18:49	1
Cyclohexane	ND		1.0	0.18	ug/L			04/14/16 18:49	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/14/16 18:49	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/14/16 18:49	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/14/16 18:49	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/14/16 18:49	1
Methyl acetate	ND		2.5	1.3	ug/L			04/14/16 18:49	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/14/16 18:49	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/14/16 18:49	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/14/16 18:49	1
Styrene	ND		1.0	0.73	ug/L			04/14/16 18:49	1
Tetrachloroethene	**0.59**	**J**	1.0	0.36	ug/L			04/14/16 18:49	1
Toluene	ND		1.0	0.51	ug/L			04/14/16 18:49	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/14/16 18:49	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/14/16 18:49	1
Trichloroethene	**2.0**		1.0	0.46	ug/L			04/14/16 18:49	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/14/16 18:49	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/14/16 18:49	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/14/16 18:49	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Client Sample ID: PZ-13R
Date Collected: 04/07/16 10:15
Date Received: 04/08/16 02:45

Lab Sample ID: 480-97868-11
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		66 - 137		04/14/16 18:49	1
4-Bromofluorobenzene (Surr)	103		73 - 120		04/14/16 18:49	1
Toluene-d8 (Surr)	101		71 - 126		04/14/16 18:49	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Client Sample ID: A2-PZ-1

Date Collected: 04/06/16 11:25
Date Received: 04/08/16 02:45

Lab Sample ID: 480-97868-12

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		200	160	ug/L			04/15/16 06:15	200
1,1,2,2-Tetrachloroethane	ND		200	42	ug/L			04/15/16 06:15	200
1,1,2-Trichloro-1,2,2-trifluoroethane	**260**		200	62	ug/L			04/15/16 06:15	200
1,1,2-Trichloroethane	ND		200	46	ug/L			04/15/16 06:15	200
1,1-Dichloroethane	**990**		200	76	ug/L			04/15/16 06:15	200
1,1-Dichloroethene	ND		200	58	ug/L			04/15/16 06:15	200
1,2,4-Trichlorobenzene	ND		200	82	ug/L			04/15/16 06:15	200
1,2-Dibromo-3-Chloropropane	ND		200	78	ug/L			04/15/16 06:15	200
1,2-Dibromoethane	ND		200	150	ug/L			04/15/16 06:15	200
1,2-Dichlorobenzene	ND		200	160	ug/L			04/15/16 06:15	200
1,2-Dichloroethane	ND		200	42	ug/L			04/15/16 06:15	200
1,2-Dichloropropane	ND		200	140	ug/L			04/15/16 06:15	200
1,3-Dichlorobenzene	ND		200	160	ug/L			04/15/16 06:15	200
1,4-Dichlorobenzene	ND		200	170	ug/L			04/15/16 06:15	200
2-Butanone (MEK)	ND		2000	260	ug/L			04/15/16 06:15	200
2-Hexanone	ND		1000	250	ug/L			04/15/16 06:15	200
4-Methyl-2-pentanone (MIBK)	ND		1000	420	ug/L			04/15/16 06:15	200
Acetone	ND		2000	600	ug/L			04/15/16 06:15	200
Benzene	ND		200	82	ug/L			04/15/16 06:15	200
Bromodichloromethane	ND		200	78	ug/L			04/15/16 06:15	200
Bromoform	ND		200	52	ug/L			04/15/16 06:15	200
Bromomethane	ND		200	140	ug/L			04/15/16 06:15	200
Carbon disulfide	ND		200	38	ug/L			04/15/16 06:15	200
Carbon tetrachloride	ND		200	54	ug/L			04/15/16 06:15	200
Chlorobenzene	ND		200	150	ug/L			04/15/16 06:15	200
Chloroethane	ND		200	64	ug/L			04/15/16 06:15	200
Chloroform	ND		200	68	ug/L			04/15/16 06:15	200
Chloromethane	ND		200	70	ug/L			04/15/16 06:15	200
cis-1,2-Dichloroethene	**20000**		200	160	ug/L			04/15/16 06:15	200
cis-1,3-Dichloropropene	ND		200	72	ug/L			04/15/16 06:15	200
Cyclohexane	ND		200	36	ug/L			04/15/16 06:15	200
Dibromochloromethane	ND		200	64	ug/L			04/15/16 06:15	200
Dichlorodifluoromethane	ND	*	200	140	ug/L			04/15/16 06:15	200
Ethylbenzene	ND		200	150	ug/L			04/15/16 06:15	200
Isopropylbenzene	ND		200	160	ug/L			04/15/16 06:15	200
Methyl acetate	ND		500	260	ug/L			04/15/16 06:15	200
Methyl tert-butyl ether	ND		200	32	ug/L			04/15/16 06:15	200
Methylcyclohexane	ND		200	32	ug/L			04/15/16 06:15	200
Methylene Chloride	ND		200	88	ug/L			04/15/16 06:15	200
Styrene	ND		200	150	ug/L			04/15/16 06:15	200
Tetrachloroethene	ND		200	72	ug/L			04/15/16 06:15	200
Toluene	ND		200	100	ug/L			04/15/16 06:15	200
trans-1,2-Dichloroethene	ND		200	180	ug/L			04/15/16 06:15	200
trans-1,3-Dichloropropene	ND		200	74	ug/L			04/15/16 06:15	200
Trichloroethene	**830**		200	92	ug/L			04/15/16 06:15	200
Trichlorofluoromethane	ND		200	180	ug/L			04/15/16 06:15	200
Vinyl chloride	**1400**		200	180	ug/L			04/15/16 06:15	200
Xylenes, Total	ND		400	130	ug/L			04/15/16 06:15	200

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Client Sample ID: A2-PZ-1
Date Collected: 04/06/16 11:25
Date Received: 04/08/16 02:45

Lab Sample ID: 480-97868-12
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		66 - 137		04/15/16 06:15	200
4-Bromofluorobenzene (Surr)	100		73 - 120		04/15/16 06:15	200
Toluene-d8 (Surr)	99		71 - 126		04/15/16 06:15	200

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Client Sample ID: A2-PZ-2

Lab Sample ID: 480-97868-13

Date Collected: 04/06/16 11:30

Matrix: Water

Date Received: 04/08/16 02:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		20	16	ug/L			04/15/16 06:42	20
1,1,2,2-Tetrachloroethane	ND		20	4.2	ug/L			04/15/16 06:42	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	6.2	ug/L			04/15/16 06:42	20
1,1,2-Trichloroethane	ND		20	4.6	ug/L			04/15/16 06:42	20
1,1-Dichloroethane	ND		20	7.6	ug/L			04/15/16 06:42	20
1,1-Dichloroethene	ND		20	5.8	ug/L			04/15/16 06:42	20
1,2,4-Trichlorobenzene	ND		20	8.2	ug/L			04/15/16 06:42	20
1,2-Dibromo-3-Chloropropane	ND		20	7.8	ug/L			04/15/16 06:42	20
1,2-Dibromoethane	ND		20	15	ug/L			04/15/16 06:42	20
1,2-Dichlorobenzene	ND		20	16	ug/L			04/15/16 06:42	20
1,2-Dichloroethane	ND		20	4.2	ug/L			04/15/16 06:42	20
1,2-Dichloropropane	ND		20	14	ug/L			04/15/16 06:42	20
1,3-Dichlorobenzene	ND		20	16	ug/L			04/15/16 06:42	20
1,4-Dichlorobenzene	ND		20	17	ug/L			04/15/16 06:42	20
2-Butanone (MEK)	ND		200	26	ug/L			04/15/16 06:42	20
2-Hexanone	ND		100	25	ug/L			04/15/16 06:42	20
4-Methyl-2-pentanone (MIBK)	ND		100	42	ug/L			04/15/16 06:42	20
Acetone	ND		200	60	ug/L			04/15/16 06:42	20
Benzene	ND		20	8.2	ug/L			04/15/16 06:42	20
Bromodichloromethane	ND		20	7.8	ug/L			04/15/16 06:42	20
Bromoform	ND		20	5.2	ug/L			04/15/16 06:42	20
Bromomethane	ND		20	14	ug/L			04/15/16 06:42	20
Carbon disulfide	ND		20	3.8	ug/L			04/15/16 06:42	20
Carbon tetrachloride	ND		20	5.4	ug/L			04/15/16 06:42	20
Chlorobenzene	ND		20	15	ug/L			04/15/16 06:42	20
Chloroethane	ND		20	6.4	ug/L			04/15/16 06:42	20
Chloroform	ND		20	6.8	ug/L			04/15/16 06:42	20
Chloromethane	ND		20	7.0	ug/L			04/15/16 06:42	20
cis-1,2-Dichloroethene	**120**		20	16	ug/L			04/15/16 06:42	20
cis-1,3-Dichloropropene	ND		20	7.2	ug/L			04/15/16 06:42	20
Cyclohexane	ND		20	3.6	ug/L			04/15/16 06:42	20
Dibromochloromethane	ND		20	6.4	ug/L			04/15/16 06:42	20
Dichlorodifluoromethane	ND	*	20	14	ug/L			04/15/16 06:42	20
Ethylbenzene	ND		20	15	ug/L			04/15/16 06:42	20
Isopropylbenzene	ND		20	16	ug/L			04/15/16 06:42	20
Methyl acetate	ND		50	26	ug/L			04/15/16 06:42	20
Methyl tert-butyl ether	ND		20	3.2	ug/L			04/15/16 06:42	20
Methylcyclohexane	ND		20	3.2	ug/L			04/15/16 06:42	20
Methylene Chloride	ND		20	8.8	ug/L			04/15/16 06:42	20
Styrene	ND		20	15	ug/L			04/15/16 06:42	20
Tetrachloroethene	**720**		20	7.2	ug/L			04/15/16 06:42	20
Toluene	ND		20	10	ug/L			04/15/16 06:42	20
trans-1,2-Dichloroethene	ND		20	18	ug/L			04/15/16 06:42	20
trans-1,3-Dichloropropene	ND		20	7.4	ug/L			04/15/16 06:42	20
Trichloroethene	**260**		20	9.2	ug/L			04/15/16 06:42	20
Trichlorofluoromethane	ND		20	18	ug/L			04/15/16 06:42	20
Vinyl chloride	ND		20	18	ug/L			04/15/16 06:42	20
Xylenes, Total	ND		40	13	ug/L			04/15/16 06:42	20

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Client Sample ID: A2-PZ-2

Date Collected: 04/06/16 11:30
Date Received: 04/08/16 02:45

Lab Sample ID: 480-97868-13

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		66 - 137		04/15/16 06:42	20
4-Bromofluorobenzene (Surr)	102		73 - 120		04/15/16 06:42	20
Toluene-d8 (Surr)	101		71 - 126		04/15/16 06:42	20

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Client Sample ID: A1-PZ-2

Lab Sample ID: 480-97868-14

Date Collected: 04/06/16 15:10

Matrix: Water

Date Received: 04/08/16 02:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/15/16 07:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/15/16 07:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/15/16 07:09	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/15/16 07:09	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/15/16 07:09	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/15/16 07:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/15/16 07:09	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/15/16 07:09	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/15/16 07:09	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/15/16 07:09	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/15/16 07:09	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/15/16 07:09	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/15/16 07:09	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/15/16 07:09	1
2-Butanone (MEK)	ND		10	1.3	ug/L			04/15/16 07:09	1
2-Hexanone	ND		5.0	1.2	ug/L			04/15/16 07:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/15/16 07:09	1
Acetone	**4.4**	**J**	10	3.0	ug/L			04/15/16 07:09	1
Benzene	ND		1.0	0.41	ug/L			04/15/16 07:09	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/15/16 07:09	1
Bromoform	ND		1.0	0.26	ug/L			04/15/16 07:09	1
Bromomethane	ND		1.0	0.69	ug/L			04/15/16 07:09	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/15/16 07:09	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/15/16 07:09	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/15/16 07:09	1
Chloroethane	ND		1.0	0.32	ug/L			04/15/16 07:09	1
Chloroform	ND		1.0	0.34	ug/L			04/15/16 07:09	1
Chloromethane	ND		1.0	0.35	ug/L			04/15/16 07:09	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/15/16 07:09	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/15/16 07:09	1
Cyclohexane	ND		1.0	0.18	ug/L			04/15/16 07:09	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/15/16 07:09	1
Dichlorodifluoromethane	ND	*	1.0	0.68	ug/L			04/15/16 07:09	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/15/16 07:09	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/15/16 07:09	1
Methyl acetate	ND		2.5	1.3	ug/L			04/15/16 07:09	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/15/16 07:09	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/15/16 07:09	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/15/16 07:09	1
Styrene	ND		1.0	0.73	ug/L			04/15/16 07:09	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/15/16 07:09	1
Toluene	ND		1.0	0.51	ug/L			04/15/16 07:09	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/15/16 07:09	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/15/16 07:09	1
Trichloroethene	ND		1.0	0.46	ug/L			04/15/16 07:09	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/15/16 07:09	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/15/16 07:09	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/15/16 07:09	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Client Sample ID: A1-PZ-2

Date Collected: 04/06/16 15:10
Date Received: 04/08/16 02:45

Lab Sample ID: 480-97868-14

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		66 - 137		04/15/16 07:09	1
4-Bromofluorobenzene (Surr)	103		73 - 120		04/15/16 07:09	1
Toluene-d8 (Surr)	102		71 - 126		04/15/16 07:09	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Client Sample ID: MW-3-S/D

Date Collected: 04/06/16 09:55
Date Received: 04/08/16 02:45

Lab Sample ID: 480-97868-15
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/15/16 16:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/15/16 16:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/15/16 16:22	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/15/16 16:22	1
1,1-Dichloroethane	**1.6**		1.0	0.38	ug/L			04/15/16 16:22	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/15/16 16:22	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/15/16 16:22	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/15/16 16:22	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/15/16 16:22	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/15/16 16:22	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/15/16 16:22	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/15/16 16:22	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/15/16 16:22	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/15/16 16:22	1
2-Butanone (MEK)	ND		10	1.3	ug/L			04/15/16 16:22	1
2-Hexanone	ND		5.0	1.2	ug/L			04/15/16 16:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/15/16 16:22	1
Acetone	ND		10	3.0	ug/L			04/15/16 16:22	1
Benzene	ND		1.0	0.41	ug/L			04/15/16 16:22	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/15/16 16:22	1
Bromoform	ND		1.0	0.26	ug/L			04/15/16 16:22	1
Bromomethane	ND		1.0	0.69	ug/L			04/15/16 16:22	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/15/16 16:22	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/15/16 16:22	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/15/16 16:22	1
Chloroethane	ND		1.0	0.32	ug/L			04/15/16 16:22	1
Chloroform	ND		1.0	0.34	ug/L			04/15/16 16:22	1
Chloromethane	ND		1.0	0.35	ug/L			04/15/16 16:22	1
cis-1,2-Dichloroethene	**14**		1.0	0.81	ug/L			04/15/16 16:22	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/15/16 16:22	1
Cyclohexane	ND		1.0	0.18	ug/L			04/15/16 16:22	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/15/16 16:22	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/15/16 16:22	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/15/16 16:22	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/15/16 16:22	1
Methyl acetate	ND		2.5	1.3	ug/L			04/15/16 16:22	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/15/16 16:22	1
Methylcyclohexane	**0.51**	**J**	1.0	0.16	ug/L			04/15/16 16:22	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/15/16 16:22	1
Styrene	ND		1.0	0.73	ug/L			04/15/16 16:22	1
Tetrachloroethene	**17**		1.0	0.36	ug/L			04/15/16 16:22	1
Toluene	ND		1.0	0.51	ug/L			04/15/16 16:22	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/15/16 16:22	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/15/16 16:22	1
Trichloroethene	**11**		1.0	0.46	ug/L			04/15/16 16:22	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/15/16 16:22	1
Vinyl chloride	**2.1**		1.0	0.90	ug/L			04/15/16 16:22	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/15/16 16:22	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Client Sample ID: MW-3-S/D

Lab Sample ID: 480-97868-15

Date Collected: 04/06/16 09:55

Matrix: Water

Date Received: 04/08/16 02:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		66 - 137		04/15/16 16:22	1
4-Bromofluorobenzene (Surr)	113		73 - 120		04/15/16 16:22	1
Toluene-d8 (Surr)	96		71 - 126		04/15/16 16:22	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-295816/7
Matrix: Water
Analysis Batch: 295816

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/14/16 11:06	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/14/16 11:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/14/16 11:06	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/14/16 11:06	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/14/16 11:06	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/14/16 11:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/14/16 11:06	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/14/16 11:06	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/14/16 11:06	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/14/16 11:06	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/14/16 11:06	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/14/16 11:06	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/14/16 11:06	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/14/16 11:06	1
2-Butanone (MEK)	ND		10	1.3	ug/L			04/14/16 11:06	1
2-Hexanone	ND		5.0	1.2	ug/L			04/14/16 11:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/14/16 11:06	1
Acetone	ND		10	3.0	ug/L			04/14/16 11:06	1
Benzene	ND		1.0	0.41	ug/L			04/14/16 11:06	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/14/16 11:06	1
Bromoform	ND		1.0	0.26	ug/L			04/14/16 11:06	1
Bromomethane	ND		1.0	0.69	ug/L			04/14/16 11:06	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/14/16 11:06	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/14/16 11:06	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/14/16 11:06	1
Chloroethane	ND		1.0	0.32	ug/L			04/14/16 11:06	1
Chloroform	ND		1.0	0.34	ug/L			04/14/16 11:06	1
Chloromethane	ND		1.0	0.35	ug/L			04/14/16 11:06	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/14/16 11:06	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/14/16 11:06	1
Cyclohexane	ND		1.0	0.18	ug/L			04/14/16 11:06	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/14/16 11:06	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/14/16 11:06	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/14/16 11:06	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/14/16 11:06	1
Methyl acetate	ND		2.5	1.3	ug/L			04/14/16 11:06	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/14/16 11:06	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/14/16 11:06	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/14/16 11:06	1
Styrene	ND		1.0	0.73	ug/L			04/14/16 11:06	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/14/16 11:06	1
Toluene	ND		1.0	0.51	ug/L			04/14/16 11:06	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/14/16 11:06	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/14/16 11:06	1
Trichloroethene	ND		1.0	0.46	ug/L			04/14/16 11:06	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/14/16 11:06	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/14/16 11:06	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/14/16 11:06	1

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		66 - 137		04/14/16 11:06	1
4-Bromofluorobenzene (Surr)	105		73 - 120		04/14/16 11:06	1
Toluene-d8 (Surr)	102		71 - 126		04/14/16 11:06	1

Lab Sample ID: LCS 480-295816/5
Matrix: Water
Analysis Batch: 295816

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	22.3		ug/L		89	71 - 129
1,1-Dichloroethene	25.0	20.6		ug/L		82	58 - 121
1,2-Dichlorobenzene	25.0	23.6		ug/L		94	80 - 124
1,2-Dichloroethane	25.0	23.1		ug/L		92	75 - 127
Benzene	25.0	22.4		ug/L		89	71 - 124
Chlorobenzene	25.0	23.3		ug/L		93	72 - 120
cis-1,2-Dichloroethene	25.0	23.3		ug/L		93	74 - 124
Ethylbenzene	25.0	22.0		ug/L		88	77 - 123
Methyl tert-butyl ether	25.0	21.9		ug/L		88	64 - 127
Tetrachloroethene	25.0	24.1		ug/L		97	74 - 122
Toluene	25.0	22.5		ug/L		90	80 - 122
trans-1,2-Dichloroethene	25.0	23.0		ug/L		92	73 - 127
Trichloroethene	25.0	23.2		ug/L		93	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		66 - 137
4-Bromofluorobenzene (Surr)	110		73 - 120
Toluene-d8 (Surr)	101		71 - 126

Lab Sample ID: 480-97868-4 MS
Matrix: Water
Analysis Batch: 295816

Client Sample ID: MW-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	ND		500	476		ug/L		95	71 - 129
1,1-Dichloroethene	ND		500	438		ug/L		88	58 - 121
1,2-Dichlorobenzene	ND		500	478		ug/L		96	80 - 124
1,2-Dichloroethane	ND		500	465		ug/L		93	75 - 127
Benzene	ND		500	476		ug/L		95	71 - 124
Chlorobenzene	ND		500	483		ug/L		97	72 - 120
cis-1,2-Dichloroethene	210		500	649		ug/L		87	74 - 124
Ethylbenzene	ND		500	454		ug/L		91	77 - 123
Methyl tert-butyl ether	ND		500	425		ug/L		85	64 - 127
Tetrachloroethene	480		500	863		ug/L		76	74 - 122
Toluene	ND		500	446		ug/L		89	80 - 122
trans-1,2-Dichloroethene	ND		500	480		ug/L		96	73 - 127
Trichloroethene	170		500	622		ug/L		90	74 - 123

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

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

Lab Sample ID: 480-97868-4 MSD
Matrix: Water
Analysis Batch: 295816

Client Sample ID: MW-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	ND		500	464		ug/L		93	71 - 129	3	20
1,1-Dichloroethene	ND		500	441		ug/L		88	58 - 121	1	16
1,2-Dichlorobenzene	ND		500	461		ug/L		92	80 - 124	3	20
1,2-Dichloroethane	ND		500	472		ug/L		94	75 - 127	1	20
Benzene	ND		500	459		ug/L		92	71 - 124	4	13
Chlorobenzene	ND		500	472		ug/L		94	72 - 120	2	25
cis-1,2-Dichloroethene	210		500	659		ug/L		89	74 - 124	2	15
Ethylbenzene	ND		500	446		ug/L		89	77 - 123	2	15
Methyl tert-butyl ether	ND		500	435		ug/L		87	64 - 127	2	37
Tetrachloroethene	480		500	863		ug/L		76	74 - 122	0	20
Toluene	ND		500	452		ug/L		90	80 - 122	1	15
trans-1,2-Dichloroethene	ND		500	471		ug/L		94	73 - 127	2	20
Trichloroethene	170		500	612		ug/L		88	74 - 123	2	16

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*66 - 137*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*
Toluene-d8 (Surr)	*102*		*71 - 126*

Lab Sample ID: MB 480-296032/7
Matrix: Water
Analysis Batch: 296032

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/14/16 23:43	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/14/16 23:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/14/16 23:43	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/14/16 23:43	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/14/16 23:43	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/14/16 23:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/14/16 23:43	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/14/16 23:43	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/14/16 23:43	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/14/16 23:43	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/14/16 23:43	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/14/16 23:43	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/14/16 23:43	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/14/16 23:43	1
2-Butanone (MEK)	ND		10	1.3	ug/L			04/14/16 23:43	1
2-Hexanone	ND		5.0	1.2	ug/L			04/14/16 23:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/14/16 23:43	1
Acetone	ND		10	3.0	ug/L			04/14/16 23:43	1
Benzene	ND		1.0	0.41	ug/L			04/14/16 23:43	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/14/16 23:43	1
Bromoform	ND		1.0	0.26	ug/L			04/14/16 23:43	1
Bromomethane	ND		1.0	0.69	ug/L			04/14/16 23:43	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/14/16 23:43	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/14/16 23:43	1

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

Lab Sample ID: MB 480-296032/7
Matrix: Water
Analysis Batch: 296032

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0	0.75	ug/L			04/14/16 23:43	1
Chloroethane	ND		1.0	0.32	ug/L			04/14/16 23:43	1
Chloroform	ND		1.0	0.34	ug/L			04/14/16 23:43	1
Chloromethane	ND		1.0	0.35	ug/L			04/14/16 23:43	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/14/16 23:43	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/14/16 23:43	1
Cyclohexane	ND		1.0	0.18	ug/L			04/14/16 23:43	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/14/16 23:43	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/14/16 23:43	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/14/16 23:43	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/14/16 23:43	1
Methyl acetate	ND		2.5	1.3	ug/L			04/14/16 23:43	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/14/16 23:43	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/14/16 23:43	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/14/16 23:43	1
Styrene	ND		1.0	0.73	ug/L			04/14/16 23:43	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/14/16 23:43	1
Toluene	ND		1.0	0.51	ug/L			04/14/16 23:43	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/14/16 23:43	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/14/16 23:43	1
Trichloroethene	ND		1.0	0.46	ug/L			04/14/16 23:43	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/14/16 23:43	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/14/16 23:43	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/14/16 23:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*66 - 137*		*04/14/16 23:43*	*1*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*04/14/16 23:43*	*1*
Toluene-d8 (Surr)	*104*		*71 - 126*		*04/14/16 23:43*	*1*

Lab Sample ID: LCS 480-296032/5
Matrix: Water
Analysis Batch: 296032

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	23.2		ug/L		93	71 - 129
1,1-Dichloroethene	25.0	22.8		ug/L		91	58 - 121
1,2-Dichlorobenzene	25.0	23.8		ug/L		95	80 - 124
1,2-Dichloroethane	25.0	23.7		ug/L		95	75 - 127
Benzene	25.0	24.0		ug/L		96	71 - 124
Chlorobenzene	25.0	24.2		ug/L		97	72 - 120
cis-1,2-Dichloroethene	25.0	24.4		ug/L		98	74 - 124
Ethylbenzene	25.0	23.0		ug/L		92	77 - 123
Methyl tert-butyl ether	25.0	22.2		ug/L		89	64 - 127
Tetrachloroethene	25.0	26.6		ug/L		106	74 - 122
Toluene	25.0	23.3		ug/L		93	80 - 122
trans-1,2-Dichloroethene	25.0	24.8		ug/L		99	73 - 127
Trichloroethene	25.0	25.0		ug/L		100	74 - 123

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*103*		*66 - 137*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*
Toluene-d8 (Surr)	*102*		*71 - 126*

Lab Sample ID: MB 480-296116/6
Matrix: Water
Analysis Batch: 296116

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/15/16 11:47	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/15/16 11:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/15/16 11:47	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/15/16 11:47	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/15/16 11:47	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/15/16 11:47	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/15/16 11:47	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/15/16 11:47	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/15/16 11:47	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/15/16 11:47	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/15/16 11:47	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/15/16 11:47	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/15/16 11:47	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/15/16 11:47	1
2-Butanone (MEK)	ND		10	1.3	ug/L			04/15/16 11:47	1
2-Hexanone	ND		5.0	1.2	ug/L			04/15/16 11:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/15/16 11:47	1
Acetone	ND		10	3.0	ug/L			04/15/16 11:47	1
Benzene	ND		1.0	0.41	ug/L			04/15/16 11:47	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/15/16 11:47	1
Bromoform	ND		1.0	0.26	ug/L			04/15/16 11:47	1
Bromomethane	ND		1.0	0.69	ug/L			04/15/16 11:47	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/15/16 11:47	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/15/16 11:47	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/15/16 11:47	1
Chloroethane	ND		1.0	0.32	ug/L			04/15/16 11:47	1
Chloroform	ND		1.0	0.34	ug/L			04/15/16 11:47	1
Chloromethane	ND		1.0	0.35	ug/L			04/15/16 11:47	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/15/16 11:47	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/15/16 11:47	1
Cyclohexane	ND		1.0	0.18	ug/L			04/15/16 11:47	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/15/16 11:47	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/15/16 11:47	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/15/16 11:47	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/15/16 11:47	1
Methyl acetate	ND		2.5	1.3	ug/L			04/15/16 11:47	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/15/16 11:47	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/15/16 11:47	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/15/16 11:47	1
Styrene	ND		1.0	0.73	ug/L			04/15/16 11:47	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/15/16 11:47	1
Toluene	ND		1.0	0.51	ug/L			04/15/16 11:47	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/15/16 11:47	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/15/16 11:47	1
Trichloroethene	ND		1.0	0.46	ug/L			04/15/16 11:47	1

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

Lab Sample ID: MB 480-296116/6
Matrix: Water
Analysis Batch: 296116

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/15/16 11:47	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/15/16 11:47	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/15/16 11:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*66 - 137*		*04/15/16 11:47*	*1*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*		*04/15/16 11:47*	*1*
Toluene-d8 (Surr)	*94*		*71 - 126*		*04/15/16 11:47*	*1*

Lab Sample ID: LCS 480-296116/4
Matrix: Water
Analysis Batch: 296116

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	24.0		ug/L		96	71 - 129
1,1-Dichloroethene	25.0	23.7		ug/L		95	58 - 121
1,2-Dichlorobenzene	25.0	23.9		ug/L		96	80 - 124
1,2-Dichloroethane	25.0	24.7		ug/L		99	75 - 127
Benzene	25.0	24.0		ug/L		96	71 - 124
Chlorobenzene	25.0	24.5		ug/L		98	72 - 120
cis-1,2-Dichloroethene	25.0	25.1		ug/L		100	74 - 124
Ethylbenzene	25.0	25.0		ug/L		100	77 - 123
Methyl tert-butyl ether	25.0	25.9		ug/L		104	64 - 127
Tetrachloroethene	25.0	25.8		ug/L		103	74 - 122
Toluene	25.0	23.9		ug/L		96	80 - 122
trans-1,2-Dichloroethene	25.0	23.8		ug/L		95	73 - 127
Trichloroethene	25.0	24.9		ug/L		100	74 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*66 - 137*
4-Bromofluorobenzene (Surr)	*115*		*73 - 120*
Toluene-d8 (Surr)	*100*		*71 - 126*

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

GC/MS VOA

Analysis Batch: 295816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-97868-1	Trip Blank	Total/NA	Water	8260C	
480-97868-2	MW-3	Total/NA	WATER	8260C	
480-97868-3	MW-1	Total/NA	Water	8260C	
480-97868-4	MW-18	Total/NA	Water	8260C	
480-97868-4 MS	MW-18	Total/NA	Water	8260C	
480-97868-4 MSD	MW-18	Total/NA	Water	8260C	
480-97868-5	MW-20	Total/NA	Water	8260C	
480-97868-6	MW-21	Total/NA	Water	8260C	
480-97868-7	PZ-5	Total/NA	Water	8260C	
480-97868-8	PZ-6	Total/NA	Water	8260C	
480-97868-9	PZ-8	Total/NA	Water	8260C	
480-97868-10	PZ-11R	Total/NA	Water	8260C	
480-97868-11	PZ-13R	Total/NA	Water	8260C	
LCS 480-295816/5	Lab Control Sample	Total/NA	Water	8260C	
MB 480-295816/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 296032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-97868-12	A2-PZ-1	Total/NA	Water	8260C	
480-97868-13	A2-PZ-2	Total/NA	Water	8260C	
480-97868-14	A1-PZ-2	Total/NA	Water	8260C	
LCS 480-296032/5	Lab Control Sample	Total/NA	Water	8260C	
MB 480-296032/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 296116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-97868-15	MW-3-S/D	Total/NA	Water	8260C	
LCS 480-296116/4	Lab Control Sample	Total/NA	Water	8260C	
MB 480-296116/6	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Client Sample ID: Trip Blank — Lab Sample ID: 480-97868-1

Date Collected: 04/06/16 08:00 — **Matrix: Water**
Date Received: 04/08/16 02:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	295816	04/14/16 14:21	RRS	TAL BUF

Client Sample ID: MW-3 — Lab Sample ID: 480-97868-2

Date Collected: 04/06/16 09:50 — **Matrix: WATER**
Date Received: 04/08/16 02:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	295816	04/14/16 14:48	RRS	TAL BUF

Client Sample ID: MW-1 — Lab Sample ID: 480-97868-3

Date Collected: 04/06/16 13:10 — **Matrix: Water**
Date Received: 04/08/16 02:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	295816	04/14/16 15:15	RRS	TAL BUF

Client Sample ID: MW-18 — Lab Sample ID: 480-97868-4

Date Collected: 04/06/16 13:50 — **Matrix: Water**
Date Received: 04/08/16 02:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	295816	04/14/16 15:42	RRS	TAL BUF

Client Sample ID: MW-20 — Lab Sample ID: 480-97868-5

Date Collected: 04/06/16 14:55 — **Matrix: Water**
Date Received: 04/08/16 02:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	295816	04/14/16 16:08	RRS	TAL BUF

Client Sample ID: MW-21 — Lab Sample ID: 480-97868-6

Date Collected: 04/06/16 16:25 — **Matrix: Water**
Date Received: 04/08/16 02:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	295816	04/14/16 16:35	RRS	TAL BUF

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Client Sample ID: PZ-5 — Lab Sample ID: 480-97868-7

Date Collected: 04/07/16 08:25 — **Matrix: Water**
Date Received: 04/08/16 02:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	295816	04/14/16 17:02	RRS	TAL BUF

Client Sample ID: PZ-6 — Lab Sample ID: 480-97868-8

Date Collected: 04/07/16 08:35 — **Matrix: Water**
Date Received: 04/08/16 02:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	295816	04/14/16 17:29	RRS	TAL BUF

Client Sample ID: PZ-8 — Lab Sample ID: 480-97868-9

Date Collected: 04/07/16 08:15 — **Matrix: Water**
Date Received: 04/08/16 02:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	295816	04/14/16 17:55	RRS	TAL BUF

Client Sample ID: PZ-11R — Lab Sample ID: 480-97868-10

Date Collected: 04/07/16 10:00 — **Matrix: Water**
Date Received: 04/08/16 02:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	295816	04/14/16 18:22	RRS	TAL BUF

Client Sample ID: PZ-13R — Lab Sample ID: 480-97868-11

Date Collected: 04/07/16 10:15 — **Matrix: Water**
Date Received: 04/08/16 02:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	295816	04/14/16 18:49	RRS	TAL BUF

Client Sample ID: A2-PZ-1 — Lab Sample ID: 480-97868-12

Date Collected: 04/06/16 11:25 — **Matrix: Water**
Date Received: 04/08/16 02:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		200	296032	04/15/16 06:15	SWO	TAL BUF

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Client Sample ID: A2-PZ-2

Lab Sample ID: 480-97868-13

Date Collected: 04/06/16 11:30
Matrix: Water
Date Received: 04/08/16 02:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	296032	04/15/16 06:42	SWO	TAL BUF

Client Sample ID: A1-PZ-2

Lab Sample ID: 480-97868-14

Date Collected: 04/06/16 15:10
Matrix: Water
Date Received: 04/08/16 02:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	296032	04/15/16 07:09	SWO	TAL BUF

Client Sample ID: MW-3-S/D

Lab Sample ID: 480-97868-15

Date Collected: 04/06/16 09:55
Matrix: Water
Date Received: 04/08/16 02:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	296116	04/15/16 16:22	GVF	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-97868-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF

Protocol References:

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: L. Best	Lab PM: VanDette, Ryan T	Carrier Tracking No(s):	COC No: 480-81341-19158.1
Client Contact: Bob Mahoney	Phone: (585) 301-0166	E-Mail: ryan.vandette@testamericainc.com		Page: Page 1 of 2
Company: Stantec Consulting Services Inc				Job #:
Address: 61 Commercial Street	Due Date Requested:			
City: Rochester	TAT Requested (days): 10			
State, Zip: NY, 14614				
Phone: (585) 413-5301	PO #: Purchase Order not required			
Email: bob.mahoney@stantec.com	WO #: 10137			
Project Name: LMC - Quarterly Event Desc: Lockheed Martin Corp - Quarterly	Project #: 48002828			
Site: New York	SSOW#:			

Analysis Requested

480-97868 Chain of Custody

G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL list OLM04.2	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
~~TRIP BLANK~~				~~Water~~					
Trip Blank	4/6/16	0800	G	Water			X	3	
MW-3	4/6/16	0950	G	Water			X	3	
MW-1	4/6/16	1310	G	Water			X	3	
~~MW-13S~~				~~Water~~					
MW-18	4/6/16	1350	G	Water			X	9	MS/MSD
MW-20	4/6/16	1455	G	Water			X	3	
MW-21	4/6/16	1625	G	Water			X	3	
PZ-5	4/7/16	0825	G	Water			X	1	
PZ-6	4/7/16	0835	G	Water			X	1	
PZ-8	4/7/16	0815	G	Water			X	1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, (IV) Other (specify) NYSDEC ASP category B deliverables + NYSDEC EQUIS EDD

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Laura Best	4/7/16 17:15	Stantec	[signature]	4/7/16 1715	SVR
[signature]	4/7/16 1900	SVR	[signature]	4-8-16 0245	TMB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 1.1 #1

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: L. Best	Lab PM: VanDette, Ryan T	Carrier Tracking No(s):	COC No: 480-81341-19158.2
Client Contact: Bob Mahoney	Phone: (585) 301-0166	E-Mail: ryan.vandette@testamericainc.com		Page: Page 2 of 2
Company: Stantec Consulting Services Inc				Job #:
Address: 61 Commercial Street	Due Date Requested:			
City: Rochester	TAT Requested (days): 10			
State, Zip: NY, 14614				
Phone: (585) 413-5301	PO #: Purchase Order not required			
Email: bob.mahoney@stantec.com	WO #: 10137			
Project Name: LMC - Quarterly Event Desc: Lockheed Martin Corp - Quarterly	Project #: 48002828			
Site: New York	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL list OLM04.2	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
PZ-11R	4/7/16	1000	G	Water			X	3	
PZ-13R	4/7/16	1015	G	Water			X	3	
A2-PZ-1	4/6/16	1125	G	Water			X	3	
A2-PZ-2	4/6/16	1130	G	Water			X	3	
A1-PZ-2	4/6/16	1510	G	Water			X	3	
MW-3-S/D	4/6/16	0955	G	Water			X	3	
PZ-5*	4/6/16	0845	G	Water			X	3	ON HOLD* (only analyze if PZ-5, -6, or -8 from 4/7/16 do not have enough volume)
PZ-6*	4/6/16	0830	G	Water			X	3	ON HOLD*
PZ-8*	4/6/16	0815	G	Water			X	1	ON HOLD*
Laura Best 4/8/16				Water					
				Water					

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, (IV), Other (specify) NYSDEC ASP category B deliverables + NYSDEC EQUISEDD

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Laura Best	4/7/16 17:15	Stantec	[illegible]	4/7/16 1715	SVL
[illegible]	4/7/16 1900	SVL	[illegible]	4-8-16 0245	TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 1.1 #1

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 480-97868-1

Login Number: 97868

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl 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 (Excluding tests with immediate HTs)..	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	STANTEC
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	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-103053-1
TestAmerica Sample Delivery Group: 103053
Client Project/Site: Lockheed Martin Corp - Quarterly
Sampling Event: Lockheed Martin Corp - Quarterly

For:
Stantec Consulting Services Inc
61 Commercial Street
Rochester, New York 14614

Attn: Bob Mahoney

Authorized for release by:
7/21/2016 4:09:39 PM
Denise Giglia, Project Management Assistant II
denise.giglia@testamericainc.com

Designee for

Ryan VanDette, Project Manager II
(716)504-9830
ryan.vandette@testamericainc.com

LINKS

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Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-103053-1	TRIP BLANK	Water	07/11/16 16:00	07/14/16 01:45
480-103053-2	MW-3	WATER	07/12/16 15:00	07/14/16 01:45
480-103053-3	MW-1	Water	07/12/16 15:10	07/14/16 01:45
480-103053-4	MW-18	Water	07/13/16 09:31	07/14/16 01:45
480-103053-5	MW-20	Water	07/12/16 11:30	07/14/16 01:45
480-103053-6	MW-21	Water	07/12/16 09:30	07/14/16 01:45
480-103053-7	PZ-5	Water	07/11/16 16:15	07/14/16 01:45
480-103053-8	PZ-11R	Water	07/12/16 13:15	07/14/16 01:45
480-103053-9	PZ-13R	Water	07/12/16 13:35	07/14/16 01:45
480-103053-10	A2-PZ-1	Water	07/13/16 08:35	07/14/16 01:45
480-103053-11	A2-PZ-2	Water	07/13/16 09:50	07/14/16 01:45
480-103053-12	A1-PZ-2	Water	07/12/16 11:45	07/14/16 01:45
480-103053-13	MW-20-S/D	Water	07/12/16 11:35	07/14/16 01:45

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-103053-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-103053-1

Comments
No additional comments.

Receipt
The samples were received on 7/14/2016 1:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.3º C.

GC/MS VOA
Method(s) 8260C: The following sample were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: A1-PZ-2 (480-103053-12).
The sample was analyzed within 7 days per EPA recommendation.

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-18 (480-103053-4). 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: PZ-5 (480-103053-7) and A2-PZ-2 (480-103053-11). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: A2-PZ-1 (480-103053-10). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The results reported for the following sample do not concur with results previously reported for this site: A2-PZ-1 (480-103053-10). Reanalysis was performed, and the results confirmed.

Method(s) 8260C: The continuing calibration verification (CCV) associated with analytical batch 311270 recovered above the upper control limit for the analyte Trichlorofluoromethane. The sample associated with this CCV was non-detect for the affected analyte; therefore, the data have been reported. The following sample was impacted: A2-PZ-1 (480-103053-10).

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

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-103053-1

No Detections.

Client Sample ID: MW-3 — Lab Sample ID: 480-103053-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.8		1.0	0.38	ug/L	1		8260C	Total/NA
Acetone	3.8	J	10	3.0	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	19		1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	12		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	12		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	3.4		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: MW-1 — Lab Sample ID: 480-103053-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	3.0		1.0	0.38	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	24		1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	32		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	13		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: MW-18 — Lab Sample ID: 480-103053-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	13	J	20	7.6	ug/L	20		8260C	Total/NA
cis-1,2-Dichloroethene	500		20	16	ug/L	20		8260C	Total/NA
Tetrachloroethene	120		20	7.2	ug/L	20		8260C	Total/NA
Trichloroethene	160		20	9.2	ug/L	20		8260C	Total/NA

Client Sample ID: MW-20 — Lab Sample ID: 480-103053-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.81	J	1.0	0.38	ug/L	1		8260C	Total/NA
Acetone	5.2	J	10	3.0	ug/L	1		8260C	Total/NA
Chloroethane	0.65	J	1.0	0.32	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	0.92	J	1.0	0.81	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	2.4		1.0	0.90	ug/L	1		8260C	Total/NA
Vinyl chloride	1.4		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: MW-21 — Lab Sample ID: 480-103053-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	1.8		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: PZ-5 — Lab Sample ID: 480-103053-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	41		1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	150	E	1.0	0.36	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.3		1.0	0.90	ug/L	1		8260C	Total/NA
Trichloroethene	75		1.0	0.46	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene - DL	37		2.0	1.6	ug/L	2		8260C	Total/NA
Tetrachloroethene - DL	110		2.0	0.72	ug/L	2		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

Client Sample ID: PZ-5 (Continued) — Lab Sample ID: 480-103053-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene - DL	61		2.0	0.92	ug/L	2		8260C	Total/NA

Client Sample ID: PZ-11R — Lab Sample ID: 480-103053-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.8		1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	4.6		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	5.4		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: PZ-13R — Lab Sample ID: 480-103053-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.9		1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	1.2		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	4.3		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: A2-PZ-1 — Lab Sample ID: 480-103053-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	180	E	1.0	0.31	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	470	E	1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	15		1.0	0.29	ug/L	1		8260C	Total/NA
1,2-Dichloroethane	0.95	J	1.0	0.21	ug/L	1		8260C	Total/NA
Acetone	3.9	J	10	3.0	ug/L	1		8260C	Total/NA
Carbon disulfide	0.41	J	1.0	0.19	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	2100	E	1.0	0.81	ug/L	1		8260C	Total/NA
Methylene Chloride	0.50	J	1.0	0.44	ug/L	1		8260C	Total/NA
Tetrachloroethene	3.2		1.0	0.36	ug/L	1		8260C	Total/NA
Toluene	3.3		1.0	0.51	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	16		1.0	0.90	ug/L	1		8260C	Total/NA
Trichloroethene	470	E	1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	490	E	1.0	0.90	ug/L	1		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane - DL	230	J	400	120	ug/L	400		8260C	Total/NA
1,1-Dichloroethane - DL	600		400	150	ug/L	400		8260C	Total/NA
cis-1,2-Dichloroethene - DL	13000		400	320	ug/L	400		8260C	Total/NA
Trichloroethene - DL	600		400	180	ug/L	400		8260C	Total/NA
Vinyl chloride - DL	600		400	360	ug/L	400		8260C	Total/NA

Client Sample ID: A2-PZ-2 — Lab Sample ID: 480-103053-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	8.3	J	20	7.6	ug/L	20		8260C	Total/NA
cis-1,2-Dichloroethene	160		20	16	ug/L	20		8260C	Total/NA
Tetrachloroethene	1100		20	7.2	ug/L	20		8260C	Total/NA
Trichloroethene	430		20	9.2	ug/L	20		8260C	Total/NA

Client Sample ID: A1-PZ-2 — Lab Sample ID: 480-103053-12

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

Client Sample ID: MW-20-S/D

Lab Sample ID: 480-103053-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.85	J	1.0	0.38	ug/L	1		8260C	Total/NA
Acetone	3.1	J	10	3.0	ug/L	1		8260C	Total/NA
Chloroethane	0.92	J	1.0	0.32	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.1		1.0	0.81	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	2.4		1.0	0.90	ug/L	1		8260C	Total/NA
Vinyl chloride	1.1		1.0	0.90	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-103053-1

Date Collected: 07/11/16 16:00
Matrix: Water
Date Received: 07/14/16 01:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/14/16 13:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/14/16 13:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/14/16 13:07	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/14/16 13:07	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/14/16 13:07	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/14/16 13:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/14/16 13:07	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/14/16 13:07	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/14/16 13:07	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/14/16 13:07	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/14/16 13:07	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/14/16 13:07	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/14/16 13:07	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/14/16 13:07	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/14/16 13:07	1
2-Hexanone	ND		5.0	1.2	ug/L			07/14/16 13:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/14/16 13:07	1
Acetone	ND		10	3.0	ug/L			07/14/16 13:07	1
Benzene	ND		1.0	0.41	ug/L			07/14/16 13:07	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/14/16 13:07	1
Bromoform	ND		1.0	0.26	ug/L			07/14/16 13:07	1
Bromomethane	ND		1.0	0.69	ug/L			07/14/16 13:07	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/14/16 13:07	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/14/16 13:07	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/14/16 13:07	1
Chloroethane	ND		1.0	0.32	ug/L			07/14/16 13:07	1
Chloroform	ND		1.0	0.34	ug/L			07/14/16 13:07	1
Chloromethane	ND		1.0	0.35	ug/L			07/14/16 13:07	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/14/16 13:07	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/14/16 13:07	1
Cyclohexane	ND		1.0	0.18	ug/L			07/14/16 13:07	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/14/16 13:07	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/14/16 13:07	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/14/16 13:07	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/14/16 13:07	1
Methyl acetate	ND		2.5	1.3	ug/L			07/14/16 13:07	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/14/16 13:07	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/14/16 13:07	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/14/16 13:07	1
Styrene	ND		1.0	0.73	ug/L			07/14/16 13:07	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/14/16 13:07	1
Toluene	ND		1.0	0.51	ug/L			07/14/16 13:07	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/14/16 13:07	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/14/16 13:07	1
Trichloroethene	ND		1.0	0.46	ug/L			07/14/16 13:07	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/14/16 13:07	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/14/16 13:07	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/14/16 13:07	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

Client Sample ID: TRIP BLANK

Date Collected: 07/11/16 16:00
Date Received: 07/14/16 01:45

Lab Sample ID: 480-103053-1

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		66 - 137		07/14/16 13:07	1
4-Bromofluorobenzene (Surr)	102		73 - 120		07/14/16 13:07	1
Toluene-d8 (Surr)	97		71 - 126		07/14/16 13:07	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

Client Sample ID: MW-3

Date Collected: 07/12/16 15:00
Date Received: 07/14/16 01:45

Lab Sample ID: 480-103053-2

Matrix: WATER

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/14/16 13:34	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/14/16 13:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/14/16 13:34	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/14/16 13:34	1
1,1-Dichloroethane	**2.8**		1.0	0.38	ug/L			07/14/16 13:34	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/14/16 13:34	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/14/16 13:34	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/14/16 13:34	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/14/16 13:34	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/14/16 13:34	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/14/16 13:34	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/14/16 13:34	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/14/16 13:34	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/14/16 13:34	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/14/16 13:34	1
2-Hexanone	ND		5.0	1.2	ug/L			07/14/16 13:34	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/14/16 13:34	1
Acetone	**3.8**	**J**	10	3.0	ug/L			07/14/16 13:34	1
Benzene	ND		1.0	0.41	ug/L			07/14/16 13:34	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/14/16 13:34	1
Bromoform	ND		1.0	0.26	ug/L			07/14/16 13:34	1
Bromomethane	ND		1.0	0.69	ug/L			07/14/16 13:34	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/14/16 13:34	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/14/16 13:34	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/14/16 13:34	1
Chloroethane	ND		1.0	0.32	ug/L			07/14/16 13:34	1
Chloroform	ND		1.0	0.34	ug/L			07/14/16 13:34	1
Chloromethane	ND		1.0	0.35	ug/L			07/14/16 13:34	1
cis-1,2-Dichloroethene	**19**		1.0	0.81	ug/L			07/14/16 13:34	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/14/16 13:34	1
Cyclohexane	ND		1.0	0.18	ug/L			07/14/16 13:34	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/14/16 13:34	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/14/16 13:34	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/14/16 13:34	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/14/16 13:34	1
Methyl acetate	ND		2.5	1.3	ug/L			07/14/16 13:34	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/14/16 13:34	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/14/16 13:34	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/14/16 13:34	1
Styrene	ND		1.0	0.73	ug/L			07/14/16 13:34	1
Tetrachloroethene	**12**		1.0	0.36	ug/L			07/14/16 13:34	1
Toluene	ND		1.0	0.51	ug/L			07/14/16 13:34	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/14/16 13:34	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/14/16 13:34	1
Trichloroethene	**12**		1.0	0.46	ug/L			07/14/16 13:34	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/14/16 13:34	1
Vinyl chloride	**3.4**		1.0	0.90	ug/L			07/14/16 13:34	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/14/16 13:34	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

Client Sample ID: MW-3
Date Collected: 07/12/16 15:00
Date Received: 07/14/16 01:45

Lab Sample ID: 480-103053-2
Matrix: WATER

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		66 - 137		07/14/16 13:34	1
4-Bromofluorobenzene (Surr)	100		73 - 120		07/14/16 13:34	1
Toluene-d8 (Surr)	95		71 - 126		07/14/16 13:34	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

Client Sample ID: MW-1

Date Collected: 07/12/16 15:10
Date Received: 07/14/16 01:45

Lab Sample ID: 480-103053-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/14/16 14:01	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/14/16 14:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/14/16 14:01	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/14/16 14:01	1
1,1-Dichloroethane	**3.0**		1.0	0.38	ug/L			07/14/16 14:01	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/14/16 14:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/14/16 14:01	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/14/16 14:01	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/14/16 14:01	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/14/16 14:01	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/14/16 14:01	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/14/16 14:01	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/14/16 14:01	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/14/16 14:01	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/14/16 14:01	1
2-Hexanone	ND		5.0	1.2	ug/L			07/14/16 14:01	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/14/16 14:01	1
Acetone	ND		10	3.0	ug/L			07/14/16 14:01	1
Benzene	ND		1.0	0.41	ug/L			07/14/16 14:01	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/14/16 14:01	1
Bromoform	ND		1.0	0.26	ug/L			07/14/16 14:01	1
Bromomethane	ND		1.0	0.69	ug/L			07/14/16 14:01	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/14/16 14:01	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/14/16 14:01	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/14/16 14:01	1
Chloroethane	ND		1.0	0.32	ug/L			07/14/16 14:01	1
Chloroform	ND		1.0	0.34	ug/L			07/14/16 14:01	1
Chloromethane	ND		1.0	0.35	ug/L			07/14/16 14:01	1
cis-1,2-Dichloroethene	**24**		1.0	0.81	ug/L			07/14/16 14:01	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/14/16 14:01	1
Cyclohexane	ND		1.0	0.18	ug/L			07/14/16 14:01	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/14/16 14:01	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/14/16 14:01	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/14/16 14:01	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/14/16 14:01	1
Methyl acetate	ND		2.5	1.3	ug/L			07/14/16 14:01	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/14/16 14:01	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/14/16 14:01	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/14/16 14:01	1
Styrene	ND		1.0	0.73	ug/L			07/14/16 14:01	1
Tetrachloroethene	**32**		1.0	0.36	ug/L			07/14/16 14:01	1
Toluene	ND		1.0	0.51	ug/L			07/14/16 14:01	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/14/16 14:01	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/14/16 14:01	1
Trichloroethene	**13**		1.0	0.46	ug/L			07/14/16 14:01	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/14/16 14:01	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/14/16 14:01	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/14/16 14:01	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

Client Sample ID: MW-1

Date Collected: 07/12/16 15:10
Date Received: 07/14/16 01:45

Lab Sample ID: 480-103053-3

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		66 - 137		07/14/16 14:01	1
4-Bromofluorobenzene (Surr)	102		73 - 120		07/14/16 14:01	1
Toluene-d8 (Surr)	97		71 - 126		07/14/16 14:01	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

Client Sample ID: MW-18

Date Collected: 07/13/16 09:31
Date Received: 07/14/16 01:45

Lab Sample ID: 480-103053-4

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		20	16	ug/L			07/14/16 14:28	20
1,1,2,2-Tetrachloroethane	ND		20	4.2	ug/L			07/14/16 14:28	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	6.2	ug/L			07/14/16 14:28	20
1,1,2-Trichloroethane	ND		20	4.6	ug/L			07/14/16 14:28	20
1,1-Dichloroethane	**13**	**J**	20	7.6	ug/L			07/14/16 14:28	20
1,1-Dichloroethene	ND		20	5.8	ug/L			07/14/16 14:28	20
1,2,4-Trichlorobenzene	ND		20	8.2	ug/L			07/14/16 14:28	20
1,2-Dibromo-3-Chloropropane	ND		20	7.8	ug/L			07/14/16 14:28	20
1,2-Dibromoethane	ND		20	15	ug/L			07/14/16 14:28	20
1,2-Dichlorobenzene	ND		20	16	ug/L			07/14/16 14:28	20
1,2-Dichloroethane	ND		20	4.2	ug/L			07/14/16 14:28	20
1,2-Dichloropropane	ND		20	14	ug/L			07/14/16 14:28	20
1,3-Dichlorobenzene	ND		20	16	ug/L			07/14/16 14:28	20
1,4-Dichlorobenzene	ND		20	17	ug/L			07/14/16 14:28	20
2-Butanone (MEK)	ND		200	26	ug/L			07/14/16 14:28	20
2-Hexanone	ND		100	25	ug/L			07/14/16 14:28	20
4-Methyl-2-pentanone (MIBK)	ND		100	42	ug/L			07/14/16 14:28	20
Acetone	ND		200	60	ug/L			07/14/16 14:28	20
Benzene	ND		20	8.2	ug/L			07/14/16 14:28	20
Bromodichloromethane	ND		20	7.8	ug/L			07/14/16 14:28	20
Bromoform	ND		20	5.2	ug/L			07/14/16 14:28	20
Bromomethane	ND		20	14	ug/L			07/14/16 14:28	20
Carbon disulfide	ND		20	3.8	ug/L			07/14/16 14:28	20
Carbon tetrachloride	ND		20	5.4	ug/L			07/14/16 14:28	20
Chlorobenzene	ND		20	15	ug/L			07/14/16 14:28	20
Chloroethane	ND		20	6.4	ug/L			07/14/16 14:28	20
Chloroform	ND		20	6.8	ug/L			07/14/16 14:28	20
Chloromethane	ND		20	7.0	ug/L			07/14/16 14:28	20
cis-1,2-Dichloroethene	**500**		20	16	ug/L			07/14/16 14:28	20
cis-1,3-Dichloropropene	ND		20	7.2	ug/L			07/14/16 14:28	20
Cyclohexane	ND		20	3.6	ug/L			07/14/16 14:28	20
Dibromochloromethane	ND		20	6.4	ug/L			07/14/16 14:28	20
Dichlorodifluoromethane	ND		20	14	ug/L			07/14/16 14:28	20
Ethylbenzene	ND		20	15	ug/L			07/14/16 14:28	20
Isopropylbenzene	ND		20	16	ug/L			07/14/16 14:28	20
Methyl acetate	ND		50	26	ug/L			07/14/16 14:28	20
Methyl tert-butyl ether	ND		20	3.2	ug/L			07/14/16 14:28	20
Methylcyclohexane	ND		20	3.2	ug/L			07/14/16 14:28	20
Methylene Chloride	ND		20	8.8	ug/L			07/14/16 14:28	20
Styrene	ND		20	15	ug/L			07/14/16 14:28	20
Tetrachloroethene	**120**		20	7.2	ug/L			07/14/16 14:28	20
Toluene	ND		20	10	ug/L			07/14/16 14:28	20
trans-1,2-Dichloroethene	ND		20	18	ug/L			07/14/16 14:28	20
trans-1,3-Dichloropropene	ND		20	7.4	ug/L			07/14/16 14:28	20
Trichloroethene	**160**		20	9.2	ug/L			07/14/16 14:28	20
Trichlorofluoromethane	ND		20	18	ug/L			07/14/16 14:28	20
Vinyl chloride	ND		20	18	ug/L			07/14/16 14:28	20
Xylenes, Total	ND		40	13	ug/L			07/14/16 14:28	20

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

Client Sample ID: MW-18

Date Collected: 07/13/16 09:31
Date Received: 07/14/16 01:45

Lab Sample ID: 480-103053-4

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		66 - 137		07/14/16 14:28	20
4-Bromofluorobenzene (Surr)	101		73 - 120		07/14/16 14:28	20
Toluene-d8 (Surr)	97		71 - 126		07/14/16 14:28	20

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

Client Sample ID: MW-20

Date Collected: 07/12/16 11:30
Date Received: 07/14/16 01:45

Lab Sample ID: 480-103053-5

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/15/16 01:52	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/15/16 01:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/15/16 01:52	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/15/16 01:52	1
1,1-Dichloroethane	**0.81**	**J**	1.0	0.38	ug/L			07/15/16 01:52	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/15/16 01:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/15/16 01:52	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/15/16 01:52	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/15/16 01:52	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/15/16 01:52	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/15/16 01:52	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/15/16 01:52	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/15/16 01:52	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/15/16 01:52	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/15/16 01:52	1
2-Hexanone	ND		5.0	1.2	ug/L			07/15/16 01:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/15/16 01:52	1
Acetone	**5.2**	**J**	10	3.0	ug/L			07/15/16 01:52	1
Benzene	ND		1.0	0.41	ug/L			07/15/16 01:52	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/15/16 01:52	1
Bromoform	ND		1.0	0.26	ug/L			07/15/16 01:52	1
Bromomethane	ND		1.0	0.69	ug/L			07/15/16 01:52	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/15/16 01:52	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/15/16 01:52	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/15/16 01:52	1
Chloroethane	**0.65**	**J**	1.0	0.32	ug/L			07/15/16 01:52	1
Chloroform	ND		1.0	0.34	ug/L			07/15/16 01:52	1
Chloromethane	ND		1.0	0.35	ug/L			07/15/16 01:52	1
cis-1,2-Dichloroethene	**0.92**	**J**	1.0	0.81	ug/L			07/15/16 01:52	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/15/16 01:52	1
Cyclohexane	ND		1.0	0.18	ug/L			07/15/16 01:52	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/15/16 01:52	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/15/16 01:52	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/15/16 01:52	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/15/16 01:52	1
Methyl acetate	ND		2.5	1.3	ug/L			07/15/16 01:52	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/15/16 01:52	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/15/16 01:52	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/15/16 01:52	1
Styrene	ND		1.0	0.73	ug/L			07/15/16 01:52	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/15/16 01:52	1
Toluene	ND		1.0	0.51	ug/L			07/15/16 01:52	1
trans-1,2-Dichloroethene	**2.4**		1.0	0.90	ug/L			07/15/16 01:52	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/15/16 01:52	1
Trichloroethene	ND		1.0	0.46	ug/L			07/15/16 01:52	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/15/16 01:52	1
Vinyl chloride	**1.4**		1.0	0.90	ug/L			07/15/16 01:52	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/15/16 01:52	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

Client Sample ID: MW-20

Date Collected: 07/12/16 11:30
Date Received: 07/14/16 01:45

Lab Sample ID: 480-103053-5

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		66 - 137		07/15/16 01:52	1
4-Bromofluorobenzene (Surr)	104		73 - 120		07/15/16 01:52	1
Toluene-d8 (Surr)	96		71 - 126		07/15/16 01:52	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

Client Sample ID: MW-21

Date Collected: 07/12/16 09:30
Date Received: 07/14/16 01:45

Lab Sample ID: 480-103053-6

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/15/16 02:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/15/16 02:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/15/16 02:19	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/15/16 02:19	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/15/16 02:19	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/15/16 02:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/15/16 02:19	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/15/16 02:19	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/15/16 02:19	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/15/16 02:19	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/15/16 02:19	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/15/16 02:19	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/15/16 02:19	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/15/16 02:19	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/15/16 02:19	1
2-Hexanone	ND		5.0	1.2	ug/L			07/15/16 02:19	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/15/16 02:19	1
Acetone	ND		10	3.0	ug/L			07/15/16 02:19	1
Benzene	ND		1.0	0.41	ug/L			07/15/16 02:19	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/15/16 02:19	1
Bromoform	ND		1.0	0.26	ug/L			07/15/16 02:19	1
Bromomethane	ND		1.0	0.69	ug/L			07/15/16 02:19	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/15/16 02:19	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/15/16 02:19	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/15/16 02:19	1
Chloroethane	ND		1.0	0.32	ug/L			07/15/16 02:19	1
Chloroform	ND		1.0	0.34	ug/L			07/15/16 02:19	1
Chloromethane	ND		1.0	0.35	ug/L			07/15/16 02:19	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/15/16 02:19	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/15/16 02:19	1
Cyclohexane	ND		1.0	0.18	ug/L			07/15/16 02:19	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/15/16 02:19	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/15/16 02:19	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/15/16 02:19	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/15/16 02:19	1
Methyl acetate	ND		2.5	1.3	ug/L			07/15/16 02:19	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/15/16 02:19	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/15/16 02:19	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/15/16 02:19	1
Styrene	ND		1.0	0.73	ug/L			07/15/16 02:19	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/15/16 02:19	1
Toluene	ND		1.0	0.51	ug/L			07/15/16 02:19	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/15/16 02:19	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/15/16 02:19	1
Trichloroethene	ND		1.0	0.46	ug/L			07/15/16 02:19	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/15/16 02:19	1
Vinyl chloride	**1.8**		1.0	0.90	ug/L			07/15/16 02:19	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/15/16 02:19	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

Client Sample ID: MW-21

Date Collected: 07/12/16 09:30
Date Received: 07/14/16 01:45

Lab Sample ID: 480-103053-6

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		66 - 137		07/15/16 02:19	1
4-Bromofluorobenzene (Surr)	105		73 - 120		07/15/16 02:19	1
Toluene-d8 (Surr)	96		71 - 126		07/15/16 02:19	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

Client Sample ID: PZ-5

Date Collected: 07/11/16 16:15
Date Received: 07/14/16 01:45

Lab Sample ID: 480-103053-7

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/14/16 15:48	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/14/16 15:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/14/16 15:48	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/14/16 15:48	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/14/16 15:48	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/14/16 15:48	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/14/16 15:48	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/14/16 15:48	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/14/16 15:48	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/14/16 15:48	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/14/16 15:48	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/14/16 15:48	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/14/16 15:48	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/14/16 15:48	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/14/16 15:48	1
2-Hexanone	ND		5.0	1.2	ug/L			07/14/16 15:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/14/16 15:48	1
Acetone	ND		10	3.0	ug/L			07/14/16 15:48	1
Benzene	ND		1.0	0.41	ug/L			07/14/16 15:48	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/14/16 15:48	1
Bromoform	ND		1.0	0.26	ug/L			07/14/16 15:48	1
Bromomethane	ND		1.0	0.69	ug/L			07/14/16 15:48	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/14/16 15:48	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/14/16 15:48	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/14/16 15:48	1
Chloroethane	ND		1.0	0.32	ug/L			07/14/16 15:48	1
Chloroform	ND		1.0	0.34	ug/L			07/14/16 15:48	1
Chloromethane	ND		1.0	0.35	ug/L			07/14/16 15:48	1
cis-1,2-Dichloroethene	**41**		1.0	0.81	ug/L			07/14/16 15:48	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/14/16 15:48	1
Cyclohexane	ND		1.0	0.18	ug/L			07/14/16 15:48	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/14/16 15:48	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/14/16 15:48	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/14/16 15:48	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/14/16 15:48	1
Methyl acetate	ND		2.5	1.3	ug/L			07/14/16 15:48	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/14/16 15:48	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/14/16 15:48	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/14/16 15:48	1
Styrene	ND		1.0	0.73	ug/L			07/14/16 15:48	1
Tetrachloroethene	**150**	**E**	1.0	0.36	ug/L			07/14/16 15:48	1
Toluene	ND		1.0	0.51	ug/L			07/14/16 15:48	1
trans-1,2-Dichloroethene	**1.3**		1.0	0.90	ug/L			07/14/16 15:48	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/14/16 15:48	1
Trichloroethene	**75**		1.0	0.46	ug/L			07/14/16 15:48	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/14/16 15:48	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/14/16 15:48	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/14/16 15:48	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

Client Sample ID: PZ-5

Date Collected: 07/11/16 16:15
Date Received: 07/14/16 01:45

Lab Sample ID: 480-103053-7

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*66 - 137*		*07/14/16 15:48*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*07/14/16 15:48*	*1*
Toluene-d8 (Surr)	*95*		*71 - 126*		*07/14/16 15:48*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			07/15/16 02:46	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			07/15/16 02:46	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			07/15/16 02:46	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			07/15/16 02:46	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			07/15/16 02:46	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			07/15/16 02:46	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			07/15/16 02:46	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			07/15/16 02:46	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			07/15/16 02:46	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			07/15/16 02:46	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			07/15/16 02:46	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			07/15/16 02:46	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			07/15/16 02:46	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			07/15/16 02:46	2
2-Butanone (MEK)	ND		20	2.6	ug/L			07/15/16 02:46	2
2-Hexanone	ND		10	2.5	ug/L			07/15/16 02:46	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			07/15/16 02:46	2
Acetone	ND		20	6.0	ug/L			07/15/16 02:46	2
Benzene	ND		2.0	0.82	ug/L			07/15/16 02:46	2
Bromodichloromethane	ND		2.0	0.78	ug/L			07/15/16 02:46	2
Bromoform	ND		2.0	0.52	ug/L			07/15/16 02:46	2
Bromomethane	ND		2.0	1.4	ug/L			07/15/16 02:46	2
Carbon disulfide	ND		2.0	0.38	ug/L			07/15/16 02:46	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			07/15/16 02:46	2
Chlorobenzene	ND		2.0	1.5	ug/L			07/15/16 02:46	2
Chloroethane	ND		2.0	0.64	ug/L			07/15/16 02:46	2
Chloroform	ND		2.0	0.68	ug/L			07/15/16 02:46	2
Chloromethane	ND		2.0	0.70	ug/L			07/15/16 02:46	2
cis-1,2-Dichloroethene	**37**		2.0	1.6	ug/L			07/15/16 02:46	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			07/15/16 02:46	2
Cyclohexane	ND		2.0	0.36	ug/L			07/15/16 02:46	2
Dibromochloromethane	ND		2.0	0.64	ug/L			07/15/16 02:46	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			07/15/16 02:46	2
Ethylbenzene	ND		2.0	1.5	ug/L			07/15/16 02:46	2
Isopropylbenzene	ND		2.0	1.6	ug/L			07/15/16 02:46	2
Methyl acetate	ND		5.0	2.6	ug/L			07/15/16 02:46	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			07/15/16 02:46	2
Methylcyclohexane	ND		2.0	0.32	ug/L			07/15/16 02:46	2
Methylene Chloride	ND		2.0	0.88	ug/L			07/15/16 02:46	2
Styrene	ND		2.0	1.5	ug/L			07/15/16 02:46	2
Tetrachloroethene	**110**		2.0	0.72	ug/L			07/15/16 02:46	2
Toluene	ND		2.0	1.0	ug/L			07/15/16 02:46	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			07/15/16 02:46	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			07/15/16 02:46	2

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

Client Sample ID: PZ-5

Lab Sample ID: 480-103053-7

Date Collected: 07/11/16 16:15
Matrix: Water
Date Received: 07/14/16 01:45

Method: 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**61**		2.0	0.92	ug/L			07/15/16 02:46	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			07/15/16 02:46	2
Vinyl chloride	ND		2.0	1.8	ug/L			07/15/16 02:46	2
Xylenes, Total	ND		4.0	1.3	ug/L			07/15/16 02:46	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*66 - 137*		*07/15/16 02:46*	*2*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*07/15/16 02:46*	*2*
Toluene-d8 (Surr)	*93*		*71 - 126*		*07/15/16 02:46*	*2*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

Client Sample ID: PZ-11R

Date Collected: 07/12/16 13:15
Date Received: 07/14/16 01:45

Lab Sample ID: 480-103053-8

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/14/16 16:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/14/16 16:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/14/16 16:15	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/14/16 16:15	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/14/16 16:15	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/14/16 16:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/14/16 16:15	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/14/16 16:15	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/14/16 16:15	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/14/16 16:15	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/14/16 16:15	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/14/16 16:15	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/14/16 16:15	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/14/16 16:15	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/14/16 16:15	1
2-Hexanone	ND		5.0	1.2	ug/L			07/14/16 16:15	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/14/16 16:15	1
Acetone	ND		10	3.0	ug/L			07/14/16 16:15	1
Benzene	ND		1.0	0.41	ug/L			07/14/16 16:15	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/14/16 16:15	1
Bromoform	ND		1.0	0.26	ug/L			07/14/16 16:15	1
Bromomethane	ND		1.0	0.69	ug/L			07/14/16 16:15	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/14/16 16:15	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/14/16 16:15	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/14/16 16:15	1
Chloroethane	ND		1.0	0.32	ug/L			07/14/16 16:15	1
Chloroform	ND		1.0	0.34	ug/L			07/14/16 16:15	1
Chloromethane	ND		1.0	0.35	ug/L			07/14/16 16:15	1
cis-1,2-Dichloroethene	**1.8**		1.0	0.81	ug/L			07/14/16 16:15	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/14/16 16:15	1
Cyclohexane	ND		1.0	0.18	ug/L			07/14/16 16:15	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/14/16 16:15	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/14/16 16:15	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/14/16 16:15	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/14/16 16:15	1
Methyl acetate	ND		2.5	1.3	ug/L			07/14/16 16:15	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/14/16 16:15	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/14/16 16:15	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/14/16 16:15	1
Styrene	ND		1.0	0.73	ug/L			07/14/16 16:15	1
Tetrachloroethene	**4.6**		1.0	0.36	ug/L			07/14/16 16:15	1
Toluene	ND		1.0	0.51	ug/L			07/14/16 16:15	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/14/16 16:15	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/14/16 16:15	1
Trichloroethene	**5.4**		1.0	0.46	ug/L			07/14/16 16:15	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/14/16 16:15	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/14/16 16:15	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/14/16 16:15	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

Client Sample ID: PZ-11R

Date Collected: 07/12/16 13:15
Date Received: 07/14/16 01:45

Lab Sample ID: 480-103053-8

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		66 - 137		07/14/16 16:15	1
4-Bromofluorobenzene (Surr)	101		73 - 120		07/14/16 16:15	1
Toluene-d8 (Surr)	94		71 - 126		07/14/16 16:15	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

Client Sample ID: PZ-13R

Date Collected: 07/12/16 13:35
Date Received: 07/14/16 01:45

Lab Sample ID: 480-103053-9

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/14/16 16:42	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/14/16 16:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/14/16 16:42	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/14/16 16:42	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/14/16 16:42	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/14/16 16:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/14/16 16:42	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/14/16 16:42	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/14/16 16:42	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/14/16 16:42	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/14/16 16:42	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/14/16 16:42	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/14/16 16:42	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/14/16 16:42	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/14/16 16:42	1
2-Hexanone	ND		5.0	1.2	ug/L			07/14/16 16:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/14/16 16:42	1
Acetone	ND		10	3.0	ug/L			07/14/16 16:42	1
Benzene	ND		1.0	0.41	ug/L			07/14/16 16:42	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/14/16 16:42	1
Bromoform	ND		1.0	0.26	ug/L			07/14/16 16:42	1
Bromomethane	ND		1.0	0.69	ug/L			07/14/16 16:42	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/14/16 16:42	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/14/16 16:42	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/14/16 16:42	1
Chloroethane	ND		1.0	0.32	ug/L			07/14/16 16:42	1
Chloroform	ND		1.0	0.34	ug/L			07/14/16 16:42	1
Chloromethane	ND		1.0	0.35	ug/L			07/14/16 16:42	1
cis-1,2-Dichloroethene	**1.9**		1.0	0.81	ug/L			07/14/16 16:42	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/14/16 16:42	1
Cyclohexane	ND		1.0	0.18	ug/L			07/14/16 16:42	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/14/16 16:42	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/14/16 16:42	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/14/16 16:42	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/14/16 16:42	1
Methyl acetate	ND		2.5	1.3	ug/L			07/14/16 16:42	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/14/16 16:42	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/14/16 16:42	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/14/16 16:42	1
Styrene	ND		1.0	0.73	ug/L			07/14/16 16:42	1
Tetrachloroethene	**1.2**		1.0	0.36	ug/L			07/14/16 16:42	1
Toluene	ND		1.0	0.51	ug/L			07/14/16 16:42	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/14/16 16:42	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/14/16 16:42	1
Trichloroethene	**4.3**		1.0	0.46	ug/L			07/14/16 16:42	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/14/16 16:42	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/14/16 16:42	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/14/16 16:42	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

Client Sample ID: PZ-13R

Date Collected: 07/12/16 13:35
Date Received: 07/14/16 01:45

Lab Sample ID: 480-103053-9

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		66 - 137		07/14/16 16:42	1
4-Bromofluorobenzene (Surr)	101		73 - 120		07/14/16 16:42	1
Toluene-d8 (Surr)	95		71 - 126		07/14/16 16:42	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

Client Sample ID: A2-PZ-1

Date Collected: 07/13/16 08:35
Date Received: 07/14/16 01:45

Lab Sample ID: 480-103053-10

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/14/16 17:08	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/14/16 17:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**180**	**E**	1.0	0.31	ug/L			07/14/16 17:08	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/14/16 17:08	1
1,1-Dichloroethane	**470**	**E**	1.0	0.38	ug/L			07/14/16 17:08	1
1,1-Dichloroethene	**15**		1.0	0.29	ug/L			07/14/16 17:08	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/14/16 17:08	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/14/16 17:08	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/14/16 17:08	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/14/16 17:08	1
1,2-Dichloroethane	**0.95**	**J**	1.0	0.21	ug/L			07/14/16 17:08	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/14/16 17:08	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/14/16 17:08	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/14/16 17:08	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/14/16 17:08	1
2-Hexanone	ND		5.0	1.2	ug/L			07/14/16 17:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/14/16 17:08	1
Acetone	**3.9**	**J**	10	3.0	ug/L			07/14/16 17:08	1
Benzene	ND		1.0	0.41	ug/L			07/14/16 17:08	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/14/16 17:08	1
Bromoform	ND		1.0	0.26	ug/L			07/14/16 17:08	1
Bromomethane	ND		1.0	0.69	ug/L			07/14/16 17:08	1
Carbon disulfide	**0.41**	**J**	1.0	0.19	ug/L			07/14/16 17:08	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/14/16 17:08	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/14/16 17:08	1
Chloroethane	ND		1.0	0.32	ug/L			07/14/16 17:08	1
Chloroform	ND		1.0	0.34	ug/L			07/14/16 17:08	1
Chloromethane	ND		1.0	0.35	ug/L			07/14/16 17:08	1
cis-1,2-Dichloroethene	**2100**	**E**	1.0	0.81	ug/L			07/14/16 17:08	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/14/16 17:08	1
Cyclohexane	ND		1.0	0.18	ug/L			07/14/16 17:08	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/14/16 17:08	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/14/16 17:08	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/14/16 17:08	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/14/16 17:08	1
Methyl acetate	ND		2.5	1.3	ug/L			07/14/16 17:08	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/14/16 17:08	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/14/16 17:08	1
Methylene Chloride	**0.50**	**J**	1.0	0.44	ug/L			07/14/16 17:08	1
Styrene	ND		1.0	0.73	ug/L			07/14/16 17:08	1
Tetrachloroethene	**3.2**		1.0	0.36	ug/L			07/14/16 17:08	1
Toluene	**3.3**		1.0	0.51	ug/L			07/14/16 17:08	1
trans-1,2-Dichloroethene	**16**		1.0	0.90	ug/L			07/14/16 17:08	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/14/16 17:08	1
Trichloroethene	**470**	**E**	1.0	0.46	ug/L			07/14/16 17:08	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/14/16 17:08	1
Vinyl chloride	**490**	**E**	1.0	0.90	ug/L			07/14/16 17:08	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/14/16 17:08	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

Client Sample ID: A2-PZ-1

Date Collected: 07/13/16 08:35
Date Received: 07/14/16 01:45

Lab Sample ID: 480-103053-10

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*66 - 137*		*07/14/16 17:08*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*07/14/16 17:08*	*1*
Toluene-d8 (Surr)	*96*		*71 - 126*		*07/14/16 17:08*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		400	330	ug/L			07/15/16 11:00	400
1,1,2,2-Tetrachloroethane	ND		400	84	ug/L			07/15/16 11:00	400
1,1,2-Trichloro-1,2,2-trifluoroethane	**230**	**J**	400	120	ug/L			07/15/16 11:00	400
1,1,2-Trichloroethane	ND		400	92	ug/L			07/15/16 11:00	400
1,1-Dichloroethane	**600**		400	150	ug/L			07/15/16 11:00	400
1,1-Dichloroethene	ND		400	120	ug/L			07/15/16 11:00	400
1,2,4-Trichlorobenzene	ND		400	160	ug/L			07/15/16 11:00	400
1,2-Dibromo-3-Chloropropane	ND		400	160	ug/L			07/15/16 11:00	400
1,2-Dibromoethane	ND		400	290	ug/L			07/15/16 11:00	400
1,2-Dichlorobenzene	ND		400	320	ug/L			07/15/16 11:00	400
1,2-Dichloroethane	ND		400	84	ug/L			07/15/16 11:00	400
1,2-Dichloropropane	ND		400	290	ug/L			07/15/16 11:00	400
1,3-Dichlorobenzene	ND		400	310	ug/L			07/15/16 11:00	400
1,4-Dichlorobenzene	ND		400	340	ug/L			07/15/16 11:00	400
2-Butanone (MEK)	ND		4000	530	ug/L			07/15/16 11:00	400
2-Hexanone	ND		2000	500	ug/L			07/15/16 11:00	400
4-Methyl-2-pentanone (MIBK)	ND		2000	840	ug/L			07/15/16 11:00	400
Acetone	ND		4000	1200	ug/L			07/15/16 11:00	400
Benzene	ND		400	160	ug/L			07/15/16 11:00	400
Bromodichloromethane	ND		400	160	ug/L			07/15/16 11:00	400
Bromoform	ND		400	100	ug/L			07/15/16 11:00	400
Bromomethane	ND		400	280	ug/L			07/15/16 11:00	400
Carbon disulfide	ND		400	76	ug/L			07/15/16 11:00	400
Carbon tetrachloride	ND		400	110	ug/L			07/15/16 11:00	400
Chlorobenzene	ND		400	300	ug/L			07/15/16 11:00	400
Chloroethane	ND		400	130	ug/L			07/15/16 11:00	400
Chloroform	ND		400	140	ug/L			07/15/16 11:00	400
Chloromethane	ND		400	140	ug/L			07/15/16 11:00	400
cis-1,2-Dichloroethene	**13000**		400	320	ug/L			07/15/16 11:00	400
cis-1,3-Dichloropropene	ND		400	140	ug/L			07/15/16 11:00	400
Cyclohexane	ND		400	72	ug/L			07/15/16 11:00	400
Dibromochloromethane	ND		400	130	ug/L			07/15/16 11:00	400
Dichlorodifluoromethane	ND		400	270	ug/L			07/15/16 11:00	400
Ethylbenzene	ND		400	300	ug/L			07/15/16 11:00	400
Isopropylbenzene	ND		400	320	ug/L			07/15/16 11:00	400
Methyl acetate	ND		1000	520	ug/L			07/15/16 11:00	400
Methyl tert-butyl ether	ND		400	64	ug/L			07/15/16 11:00	400
Methylcyclohexane	ND		400	64	ug/L			07/15/16 11:00	400
Methylene Chloride	ND		400	180	ug/L			07/15/16 11:00	400
Styrene	ND		400	290	ug/L			07/15/16 11:00	400
Tetrachloroethene	ND		400	140	ug/L			07/15/16 11:00	400
Toluene	ND		400	200	ug/L			07/15/16 11:00	400
trans-1,2-Dichloroethene	ND		400	360	ug/L			07/15/16 11:00	400

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

Client Sample ID: A2-PZ-1

Date Collected: 07/13/16 08:35
Date Received: 07/14/16 01:45

Lab Sample ID: 480-103053-10

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		400	150	ug/L			07/15/16 11:00	400
Trichloroethene	**600**		400	180	ug/L			07/15/16 11:00	400
Trichlorofluoromethane	ND		400	350	ug/L			07/15/16 11:00	400
Vinyl chloride	**600**		400	360	ug/L			07/15/16 11:00	400
Xylenes, Total	ND		800	260	ug/L			07/15/16 11:00	400

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*66 - 137*		*07/15/16 11:00*	*400*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*07/15/16 11:00*	*400*
Toluene-d8 (Surr)	*94*		*71 - 126*		*07/15/16 11:00*	*400*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

Client Sample ID: A2-PZ-2

Date Collected: 07/13/16 09:50
Date Received: 07/14/16 01:45

Lab Sample ID: 480-103053-11

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		20	16	ug/L			07/15/16 03:40	20
1,1,2,2-Tetrachloroethane	ND		20	4.2	ug/L			07/15/16 03:40	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	6.2	ug/L			07/15/16 03:40	20
1,1,2-Trichloroethane	ND		20	4.6	ug/L			07/15/16 03:40	20
1,1-Dichloroethane	**8.3**	**J**	20	7.6	ug/L			07/15/16 03:40	20
1,1-Dichloroethene	ND		20	5.8	ug/L			07/15/16 03:40	20
1,2,4-Trichlorobenzene	ND		20	8.2	ug/L			07/15/16 03:40	20
1,2-Dibromo-3-Chloropropane	ND		20	7.8	ug/L			07/15/16 03:40	20
1,2-Dibromoethane	ND		20	15	ug/L			07/15/16 03:40	20
1,2-Dichlorobenzene	ND		20	16	ug/L			07/15/16 03:40	20
1,2-Dichloroethane	ND		20	4.2	ug/L			07/15/16 03:40	20
1,2-Dichloropropane	ND		20	14	ug/L			07/15/16 03:40	20
1,3-Dichlorobenzene	ND		20	16	ug/L			07/15/16 03:40	20
1,4-Dichlorobenzene	ND		20	17	ug/L			07/15/16 03:40	20
2-Butanone (MEK)	ND		200	26	ug/L			07/15/16 03:40	20
2-Hexanone	ND		100	25	ug/L			07/15/16 03:40	20
4-Methyl-2-pentanone (MIBK)	ND		100	42	ug/L			07/15/16 03:40	20
Acetone	ND		200	60	ug/L			07/15/16 03:40	20
Benzene	ND		20	8.2	ug/L			07/15/16 03:40	20
Bromodichloromethane	ND		20	7.8	ug/L			07/15/16 03:40	20
Bromoform	ND		20	5.2	ug/L			07/15/16 03:40	20
Bromomethane	ND		20	14	ug/L			07/15/16 03:40	20
Carbon disulfide	ND		20	3.8	ug/L			07/15/16 03:40	20
Carbon tetrachloride	ND		20	5.4	ug/L			07/15/16 03:40	20
Chlorobenzene	ND		20	15	ug/L			07/15/16 03:40	20
Chloroethane	ND		20	6.4	ug/L			07/15/16 03:40	20
Chloroform	ND		20	6.8	ug/L			07/15/16 03:40	20
Chloromethane	ND		20	7.0	ug/L			07/15/16 03:40	20
cis-1,2-Dichloroethene	**160**		20	16	ug/L			07/15/16 03:40	20
cis-1,3-Dichloropropene	ND		20	7.2	ug/L			07/15/16 03:40	20
Cyclohexane	ND		20	3.6	ug/L			07/15/16 03:40	20
Dibromochloromethane	ND		20	6.4	ug/L			07/15/16 03:40	20
Dichlorodifluoromethane	ND		20	14	ug/L			07/15/16 03:40	20
Ethylbenzene	ND		20	15	ug/L			07/15/16 03:40	20
Isopropylbenzene	ND		20	16	ug/L			07/15/16 03:40	20
Methyl acetate	ND		50	26	ug/L			07/15/16 03:40	20
Methyl tert-butyl ether	ND		20	3.2	ug/L			07/15/16 03:40	20
Methylcyclohexane	ND		20	3.2	ug/L			07/15/16 03:40	20
Methylene Chloride	ND		20	8.8	ug/L			07/15/16 03:40	20
Styrene	ND		20	15	ug/L			07/15/16 03:40	20
Tetrachloroethene	**1100**		20	7.2	ug/L			07/15/16 03:40	20
Toluene	ND		20	10	ug/L			07/15/16 03:40	20
trans-1,2-Dichloroethene	ND		20	18	ug/L			07/15/16 03:40	20
trans-1,3-Dichloropropene	ND		20	7.4	ug/L			07/15/16 03:40	20
Trichloroethene	**430**		20	9.2	ug/L			07/15/16 03:40	20
Trichlorofluoromethane	ND		20	18	ug/L			07/15/16 03:40	20
Vinyl chloride	ND		20	18	ug/L			07/15/16 03:40	20
Xylenes, Total	ND		40	13	ug/L			07/15/16 03:40	20

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

Client Sample ID: A2-PZ-2

Date Collected: 07/13/16 09:50
Date Received: 07/14/16 01:45

Lab Sample ID: 480-103053-11

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		66 - 137		07/15/16 03:40	20
4-Bromofluorobenzene (Surr)	105		73 - 120		07/15/16 03:40	20
Toluene-d8 (Surr)	96		71 - 126		07/15/16 03:40	20

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

Client Sample ID: A1-PZ-2

Date Collected: 07/12/16 11:45
Date Received: 07/14/16 01:45

Lab Sample ID: 480-103053-12

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/14/16 18:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/14/16 18:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/14/16 18:02	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/14/16 18:02	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/14/16 18:02	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/14/16 18:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/14/16 18:02	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/14/16 18:02	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/14/16 18:02	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/14/16 18:02	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/14/16 18:02	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/14/16 18:02	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/14/16 18:02	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/14/16 18:02	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/14/16 18:02	1
2-Hexanone	ND		5.0	1.2	ug/L			07/14/16 18:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/14/16 18:02	1
Acetone	ND		10	3.0	ug/L			07/14/16 18:02	1
Benzene	ND		1.0	0.41	ug/L			07/14/16 18:02	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/14/16 18:02	1
Bromoform	ND		1.0	0.26	ug/L			07/14/16 18:02	1
Bromomethane	ND		1.0	0.69	ug/L			07/14/16 18:02	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/14/16 18:02	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/14/16 18:02	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/14/16 18:02	1
Chloroethane	ND		1.0	0.32	ug/L			07/14/16 18:02	1
Chloroform	ND		1.0	0.34	ug/L			07/14/16 18:02	1
Chloromethane	ND		1.0	0.35	ug/L			07/14/16 18:02	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/14/16 18:02	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/14/16 18:02	1
Cyclohexane	ND		1.0	0.18	ug/L			07/14/16 18:02	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/14/16 18:02	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/14/16 18:02	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/14/16 18:02	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/14/16 18:02	1
Methyl acetate	ND		2.5	1.3	ug/L			07/14/16 18:02	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/14/16 18:02	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/14/16 18:02	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/14/16 18:02	1
Styrene	ND		1.0	0.73	ug/L			07/14/16 18:02	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/14/16 18:02	1
Toluene	ND		1.0	0.51	ug/L			07/14/16 18:02	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/14/16 18:02	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/14/16 18:02	1
Trichloroethene	ND		1.0	0.46	ug/L			07/14/16 18:02	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/14/16 18:02	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/14/16 18:02	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/14/16 18:02	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

Client Sample ID: A1-PZ-2

Date Collected: 07/12/16 11:45
Date Received: 07/14/16 01:45

Lab Sample ID: 480-103053-12

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		66 - 137		07/14/16 18:02	1
4-Bromofluorobenzene (Surr)	101		73 - 120		07/14/16 18:02	1
Toluene-d8 (Surr)	94		71 - 126		07/14/16 18:02	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

Client Sample ID: MW-20-S/D

Date Collected: 07/12/16 11:35
Date Received: 07/14/16 01:45

Lab Sample ID: 480-103053-13

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/14/16 18:29	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/14/16 18:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/14/16 18:29	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/14/16 18:29	1
1,1-Dichloroethane	**0.85**	**J**	1.0	0.38	ug/L			07/14/16 18:29	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/14/16 18:29	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/14/16 18:29	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/14/16 18:29	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/14/16 18:29	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/14/16 18:29	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/14/16 18:29	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/14/16 18:29	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/14/16 18:29	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/14/16 18:29	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/14/16 18:29	1
2-Hexanone	ND		5.0	1.2	ug/L			07/14/16 18:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/14/16 18:29	1
Acetone	**3.1**	**J**	10	3.0	ug/L			07/14/16 18:29	1
Benzene	ND		1.0	0.41	ug/L			07/14/16 18:29	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/14/16 18:29	1
Bromoform	ND		1.0	0.26	ug/L			07/14/16 18:29	1
Bromomethane	ND		1.0	0.69	ug/L			07/14/16 18:29	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/14/16 18:29	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/14/16 18:29	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/14/16 18:29	1
Chloroethane	**0.92**	**J**	1.0	0.32	ug/L			07/14/16 18:29	1
Chloroform	ND		1.0	0.34	ug/L			07/14/16 18:29	1
Chloromethane	ND		1.0	0.35	ug/L			07/14/16 18:29	1
cis-1,2-Dichloroethene	**1.1**		1.0	0.81	ug/L			07/14/16 18:29	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/14/16 18:29	1
Cyclohexane	ND		1.0	0.18	ug/L			07/14/16 18:29	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/14/16 18:29	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/14/16 18:29	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/14/16 18:29	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/14/16 18:29	1
Methyl acetate	ND		2.5	1.3	ug/L			07/14/16 18:29	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/14/16 18:29	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/14/16 18:29	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/14/16 18:29	1
Styrene	ND		1.0	0.73	ug/L			07/14/16 18:29	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/14/16 18:29	1
Toluene	ND		1.0	0.51	ug/L			07/14/16 18:29	1
trans-1,2-Dichloroethene	**2.4**		1.0	0.90	ug/L			07/14/16 18:29	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/14/16 18:29	1
Trichloroethene	ND		1.0	0.46	ug/L			07/14/16 18:29	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/14/16 18:29	1
Vinyl chloride	**1.1**		1.0	0.90	ug/L			07/14/16 18:29	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/14/16 18:29	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

Client Sample ID: MW-20-S/D

Date Collected: 07/12/16 11:35
Date Received: 07/14/16 01:45

Lab Sample ID: 480-103053-13

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		66 - 137		07/14/16 18:29	1
4-Bromofluorobenzene (Surr)	99		73 - 120		07/14/16 18:29	1
Toluene-d8 (Surr)	95		71 - 126		07/14/16 18:29	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-311052/6
Matrix: Water
Analysis Batch: 311052

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/14/16 10:45	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/14/16 10:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/14/16 10:45	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/14/16 10:45	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/14/16 10:45	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/14/16 10:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/14/16 10:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/14/16 10:45	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/14/16 10:45	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/14/16 10:45	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/14/16 10:45	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/14/16 10:45	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/14/16 10:45	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/14/16 10:45	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/14/16 10:45	1
2-Hexanone	ND		5.0	1.2	ug/L			07/14/16 10:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/14/16 10:45	1
Acetone	ND		10	3.0	ug/L			07/14/16 10:45	1
Benzene	ND		1.0	0.41	ug/L			07/14/16 10:45	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/14/16 10:45	1
Bromoform	ND		1.0	0.26	ug/L			07/14/16 10:45	1
Bromomethane	ND		1.0	0.69	ug/L			07/14/16 10:45	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/14/16 10:45	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/14/16 10:45	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/14/16 10:45	1
Chloroethane	ND		1.0	0.32	ug/L			07/14/16 10:45	1
Chloroform	ND		1.0	0.34	ug/L			07/14/16 10:45	1
Chloromethane	ND		1.0	0.35	ug/L			07/14/16 10:45	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/14/16 10:45	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/14/16 10:45	1
Cyclohexane	ND		1.0	0.18	ug/L			07/14/16 10:45	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/14/16 10:45	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/14/16 10:45	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/14/16 10:45	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/14/16 10:45	1
Methyl acetate	ND		2.5	1.3	ug/L			07/14/16 10:45	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/14/16 10:45	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/14/16 10:45	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/14/16 10:45	1
Styrene	ND		1.0	0.73	ug/L			07/14/16 10:45	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/14/16 10:45	1
Toluene	ND		1.0	0.51	ug/L			07/14/16 10:45	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/14/16 10:45	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/14/16 10:45	1
Trichloroethene	ND		1.0	0.46	ug/L			07/14/16 10:45	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/14/16 10:45	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/14/16 10:45	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/14/16 10:45	1

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		66 - 137		07/14/16 10:45	1
4-Bromofluorobenzene (Surr)	100		73 - 120		07/14/16 10:45	1
Toluene-d8 (Surr)	95		71 - 126		07/14/16 10:45	1

Lab Sample ID: LCS 480-311052/4
Matrix: Water
Analysis Batch: 311052

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	21.8		ug/L		87	73 - 126
1,1,2,2-Tetrachloroethane	25.0	21.1		ug/L		85	70 - 126
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	20.9		ug/L		83	52 - 148
1,1,2-Trichloroethane	25.0	23.2		ug/L		93	76 - 122
1,1-Dichloroethane	25.0	23.3		ug/L		93	71 - 129
1,1-Dichloroethene	25.0	21.2		ug/L		85	58 - 121
1,2,4-Trichlorobenzene	25.0	21.6		ug/L		86	70 - 122
1,2-Dibromo-3-Chloropropane	25.0	17.6		ug/L		71	56 - 134
1,2-Dibromoethane	25.0	22.8		ug/L		91	77 - 120
1,2-Dichlorobenzene	25.0	24.3		ug/L		97	80 - 124
1,2-Dichloroethane	25.0	24.3		ug/L		97	75 - 127
1,2-Dichloropropane	25.0	24.9		ug/L		99	76 - 120
1,3-Dichlorobenzene	25.0	24.2		ug/L		97	77 - 120
1,4-Dichlorobenzene	25.0	23.8		ug/L		95	75 - 120
2-Butanone (MEK)	125	124		ug/L		100	57 - 140
2-Hexanone	125	112		ug/L		90	65 - 127
4-Methyl-2-pentanone (MIBK)	125	105		ug/L		84	71 - 125
Acetone	125	142		ug/L		114	56 - 142
Benzene	25.0	23.3		ug/L		93	71 - 124
Bromodichloromethane	25.0	22.7		ug/L		91	80 - 122
Bromoform	25.0	20.2		ug/L		81	52 - 132
Bromomethane	25.0	19.1		ug/L		76	55 - 144
Carbon disulfide	25.0	19.9		ug/L		80	59 - 134
Carbon tetrachloride	25.0	21.0		ug/L		84	72 - 134
Chlorobenzene	25.0	23.4		ug/L		93	72 - 120
Chloroethane	25.0	19.0		ug/L		76	69 - 136
Chloroform	25.0	22.9		ug/L		92	73 - 127
Chloromethane	25.0	20.8		ug/L		83	68 - 124
cis-1,2-Dichloroethene	25.0	24.4		ug/L		98	74 - 124
cis-1,3-Dichloropropene	25.0	23.8		ug/L		95	74 - 124
Cyclohexane	25.0	20.0		ug/L		80	59 - 135
Dibromochloromethane	25.0	22.0		ug/L		88	75 - 125
Dichlorodifluoromethane	25.0	21.1		ug/L		84	59 - 135
Ethylbenzene	25.0	21.8		ug/L		87	77 - 123
Isopropylbenzene	25.0	21.7		ug/L		87	77 - 122
Methyl acetate	125	104		ug/L		83	74 - 133
Methyl tert-butyl ether	25.0	21.8		ug/L		87	64 - 127
Methylcyclohexane	25.0	22.1		ug/L		88	61 - 138
Methylene Chloride	25.0	23.0		ug/L		92	57 - 132
Styrene	25.0	22.6		ug/L		90	70 - 130
Tetrachloroethene	25.0	22.9		ug/L		92	74 - 122
Toluene	25.0	22.3		ug/L		89	80 - 122
trans-1,2-Dichloroethene	25.0	22.3		ug/L		89	73 - 127
trans-1,3-Dichloropropene	25.0	22.6		ug/L		90	72 - 123

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

Lab Sample ID: LCS 480-311052/4
Matrix: Water
Analysis Batch: 311052

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	25.0	23.1		ug/L		92	74 - 123
Trichlorofluoromethane	25.0	22.6		ug/L		91	62 - 152
Vinyl chloride	25.0	19.7		ug/L		79	65 - 133

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

Lab Sample ID: MB 480-311196/6
Matrix: Water
Analysis Batch: 311196

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/14/16 23:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/14/16 23:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/14/16 23:53	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/14/16 23:53	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/14/16 23:53	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/14/16 23:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/14/16 23:53	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/14/16 23:53	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/14/16 23:53	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/14/16 23:53	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/14/16 23:53	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/14/16 23:53	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/14/16 23:53	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/14/16 23:53	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/14/16 23:53	1
2-Hexanone	ND		5.0	1.2	ug/L			07/14/16 23:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/14/16 23:53	1
Acetone	ND		10	3.0	ug/L			07/14/16 23:53	1
Benzene	ND		1.0	0.41	ug/L			07/14/16 23:53	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/14/16 23:53	1
Bromoform	ND		1.0	0.26	ug/L			07/14/16 23:53	1
Bromomethane	ND		1.0	0.69	ug/L			07/14/16 23:53	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/14/16 23:53	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/14/16 23:53	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/14/16 23:53	1
Chloroethane	ND		1.0	0.32	ug/L			07/14/16 23:53	1
Chloroform	ND		1.0	0.34	ug/L			07/14/16 23:53	1
Chloromethane	ND		1.0	0.35	ug/L			07/14/16 23:53	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/14/16 23:53	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/14/16 23:53	1
Cyclohexane	ND		1.0	0.18	ug/L			07/14/16 23:53	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/14/16 23:53	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/14/16 23:53	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/14/16 23:53	1

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

Lab Sample ID: MB 480-311196/6
Matrix: Water
Analysis Batch: 311196

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0	0.79	ug/L			07/14/16 23:53	1
Methyl acetate	ND		2.5	1.3	ug/L			07/14/16 23:53	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/14/16 23:53	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/14/16 23:53	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/14/16 23:53	1
Styrene	ND		1.0	0.73	ug/L			07/14/16 23:53	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/14/16 23:53	1
Toluene	ND		1.0	0.51	ug/L			07/14/16 23:53	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/14/16 23:53	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/14/16 23:53	1
Trichloroethene	ND		1.0	0.46	ug/L			07/14/16 23:53	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/14/16 23:53	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/14/16 23:53	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/14/16 23:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*66 - 137*		*07/14/16 23:53*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*07/14/16 23:53*	*1*
Toluene-d8 (Surr)	*96*		*71 - 126*		*07/14/16 23:53*	*1*

Lab Sample ID: LCS 480-311196/4
Matrix: Water
Analysis Batch: 311196

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	25.0		ug/L		100	73 - 126
1,1,2,2-Tetrachloroethane	25.0	20.2		ug/L		81	70 - 126
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	27.2		ug/L		109	52 - 148
1,1,2-Trichloroethane	25.0	22.4		ug/L		90	76 - 122
1,1-Dichloroethane	25.0	24.7		ug/L		99	71 - 129
1,1-Dichloroethene	25.0	25.4		ug/L		102	58 - 121
1,2,4-Trichlorobenzene	25.0	23.1		ug/L		93	70 - 122
1,2-Dibromo-3-Chloropropane	25.0	17.0		ug/L		68	56 - 134
1,2-Dibromoethane	25.0	21.2		ug/L		85	77 - 120
1,2-Dichlorobenzene	25.0	24.0		ug/L		96	80 - 124
1,2-Dichloroethane	25.0	23.8		ug/L		95	75 - 127
1,2-Dichloropropane	25.0	25.7		ug/L		103	76 - 120
1,3-Dichlorobenzene	25.0	24.4		ug/L		98	77 - 120
1,4-Dichlorobenzene	25.0	23.9		ug/L		96	75 - 120
2-Butanone (MEK)	125	103		ug/L		82	57 - 140
2-Hexanone	125	100		ug/L		80	65 - 127
4-Methyl-2-pentanone (MIBK)	125	100		ug/L		80	71 - 125
Acetone	125	112		ug/L		90	56 - 142
Benzene	25.0	24.5		ug/L		98	71 - 124
Bromodichloromethane	25.0	22.2		ug/L		89	80 - 122
Bromoform	25.0	19.0		ug/L		76	52 - 132
Bromomethane	25.0	22.0		ug/L		88	55 - 144

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

Lab Sample ID: LCS 480-311196/4
Matrix: Water
Analysis Batch: 311196

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	25.0	23.6		ug/L		94	59 - 134
Carbon tetrachloride	25.0	25.2		ug/L		101	72 - 134
Chlorobenzene	25.0	23.9		ug/L		96	72 - 120
Chloroethane	25.0	24.2		ug/L		97	69 - 136
Chloroform	25.0	23.9		ug/L		96	73 - 127
Chloromethane	25.0	23.7		ug/L		95	68 - 124
cis-1,2-Dichloroethene	25.0	25.7		ug/L		103	74 - 124
cis-1,3-Dichloropropene	25.0	23.5		ug/L		94	74 - 124
Cyclohexane	25.0	25.9		ug/L		104	59 - 135
Dibromochloromethane	25.0	21.5		ug/L		86	75 - 125
Dichlorodifluoromethane	25.0	26.8		ug/L		107	59 - 135
Ethylbenzene	25.0	23.5		ug/L		94	77 - 123
Isopropylbenzene	25.0	23.7		ug/L		95	77 - 122
Methyl acetate	125	101		ug/L		81	74 - 133
Methyl tert-butyl ether	25.0	21.3		ug/L		85	64 - 127
Methylcyclohexane	25.0	26.6		ug/L		107	61 - 138
Methylene Chloride	25.0	23.9		ug/L		96	57 - 132
Styrene	25.0	22.6		ug/L		90	70 - 130
Tetrachloroethene	25.0	26.6		ug/L		106	74 - 122
Toluene	25.0	24.0		ug/L		96	80 - 122
trans-1,2-Dichloroethene	25.0	25.2		ug/L		101	73 - 127
trans-1,3-Dichloropropene	25.0	21.6		ug/L		86	72 - 123
Trichloroethene	25.0	25.1		ug/L		100	74 - 123
Trichlorofluoromethane	25.0	29.0		ug/L		116	62 - 152
Vinyl chloride	25.0	24.4		ug/L		98	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*66 - 137*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*
Toluene-d8 (Surr)	*98*		*71 - 126*

Lab Sample ID: 480-103053-6 MS
Matrix: Water
Analysis Batch: 311196

Client Sample ID: MW-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		25.0	22.5		ug/L		90	73 - 126
1,1,2,2-Tetrachloroethane	ND		25.0	20.3		ug/L		81	70 - 126
1,1,2-Trichloro-1,2,2-trifluoroetha ne	ND		25.0	19.5		ug/L		78	52 - 148
1,1,2-Trichloroethane	ND		25.0	22.9		ug/L		92	76 - 122
1,1-Dichloroethane	ND		25.0	24.4		ug/L		98	71 - 129
1,1-Dichloroethene	ND		25.0	22.9		ug/L		92	58 - 121
1,2,4-Trichlorobenzene	ND		25.0	21.5		ug/L		86	70 - 122
1,2-Dibromo-3-Chloropropane	ND		25.0	16.0		ug/L		64	56 - 134
1,2-Dibromoethane	ND		25.0	22.7		ug/L		91	77 - 120
1,2-Dichlorobenzene	ND		25.0	23.4		ug/L		94	80 - 124
1,2-Dichloroethane	ND		25.0	23.3		ug/L		93	75 - 127

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

Lab Sample ID: 480-103053-6 MS
Matrix: Water
Analysis Batch: 311196

Client Sample ID: MW-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	ND		25.0	24.3		ug/L		97	76 - 120
1,3-Dichlorobenzene	ND		25.0	23.5		ug/L		94	77 - 120
1,4-Dichlorobenzene	ND		25.0	23.2		ug/L		93	75 - 120
2-Butanone (MEK)	ND		125	106		ug/L		85	57 - 140
2-Hexanone	ND		125	107		ug/L		86	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		125	107		ug/L		86	71 - 125
Acetone	ND		125	97.2		ug/L		78	56 - 142
Benzene	ND		25.0	23.7		ug/L		95	71 - 124
Bromodichloromethane	ND		25.0	21.4		ug/L		85	80 - 122
Bromoform	ND		25.0	17.4		ug/L		70	52 - 132
Bromomethane	ND		25.0	20.5		ug/L		82	55 - 144
Carbon disulfide	ND		25.0	20.9		ug/L		84	59 - 134
Carbon tetrachloride	ND		25.0	22.0		ug/L		88	72 - 134
Chlorobenzene	ND		25.0	24.5		ug/L		98	72 - 120
Chloroethane	ND		25.0	22.5		ug/L		90	69 - 136
Chloroform	ND		25.0	23.4		ug/L		94	73 - 127
Chloromethane	ND		25.0	20.0		ug/L		80	68 - 124
cis-1,2-Dichloroethene	ND		25.0	25.1		ug/L		100	74 - 124
cis-1,3-Dichloropropene	ND		25.0	22.1		ug/L		88	74 - 124
Cyclohexane	ND		25.0	19.3		ug/L		77	59 - 135
Dibromochloromethane	ND		25.0	20.7		ug/L		83	75 - 125
Dichlorodifluoromethane	ND		25.0	19.1		ug/L		76	59 - 135
Ethylbenzene	ND		25.0	23.3		ug/L		93	77 - 123
Isopropylbenzene	ND		25.0	22.7		ug/L		91	77 - 122
Methyl acetate	ND		125	98.4		ug/L		79	74 - 133
Methyl tert-butyl ether	ND		25.0	21.6		ug/L		86	64 - 127
Methylcyclohexane	ND		25.0	19.6		ug/L		78	61 - 138
Methylene Chloride	ND		25.0	23.4		ug/L		94	57 - 132
Styrene	ND		25.0	22.9		ug/L		92	70 - 130
Tetrachloroethene	ND		25.0	25.2		ug/L		101	74 - 122
Toluene	ND		25.0	24.0		ug/L		96	80 - 122
trans-1,2-Dichloroethene	ND		25.0	24.4		ug/L		97	73 - 127
trans-1,3-Dichloropropene	ND		25.0	21.3		ug/L		85	72 - 123
Trichloroethene	ND		25.0	23.4		ug/L		94	74 - 123
Trichlorofluoromethane	ND		25.0	21.4		ug/L		86	62 - 152
Vinyl chloride	1.8		25.0	21.3		ug/L		78	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*66 - 137*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*
Toluene-d8 (Surr)	*97*		*71 - 126*

Lab Sample ID: 480-103053-6 MSD
Matrix: Water
Analysis Batch: 311196

Client Sample ID: MW-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		25.0	22.7		ug/L		91	73 - 126	1	15

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

Lab Sample ID: 480-103053-6 MSD
Matrix: Water
Analysis Batch: 311196

Client Sample ID: MW-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane	ND		25.0	20.7		ug/L		83	70 - 126	2	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	19.1		ug/L		76	52 - 148	2	20
1,1,2-Trichloroethane	ND		25.0	23.3		ug/L		93	76 - 122	2	15
1,1-Dichloroethane	ND		25.0	25.1		ug/L		101	71 - 129	3	20
1,1-Dichloroethene	ND		25.0	22.9		ug/L		92	58 - 121	0	16
1,2,4-Trichlorobenzene	ND		25.0	21.5		ug/L		86	70 - 122	0	20
1,2-Dibromo-3-Chloropropane	ND		25.0	16.6		ug/L		67	56 - 134	4	15
1,2-Dibromoethane	ND		25.0	23.2		ug/L		93	77 - 120	2	15
1,2-Dichlorobenzene	ND		25.0	23.7		ug/L		95	80 - 124	1	20
1,2-Dichloroethane	ND		25.0	24.0		ug/L		96	75 - 127	3	20
1,2-Dichloropropane	ND		25.0	25.5		ug/L		102	76 - 120	5	20
1,3-Dichlorobenzene	ND		25.0	23.9		ug/L		96	77 - 120	2	20
1,4-Dichlorobenzene	ND		25.0	23.4		ug/L		94	75 - 120	1	20
2-Butanone (MEK)	ND		125	116		ug/L		93	57 - 140	9	20
2-Hexanone	ND		125	111		ug/L		89	65 - 127	4	15
4-Methyl-2-pentanone (MIBK)	ND		125	110		ug/L		88	71 - 125	2	35
Acetone	ND		125	110		ug/L		88	56 - 142	12	15
Benzene	ND		25.0	24.5		ug/L		98	71 - 124	3	13
Bromodichloromethane	ND		25.0	22.0		ug/L		88	80 - 122	3	15
Bromoform	ND		25.0	17.4		ug/L		70	52 - 132	0	15
Bromomethane	ND		25.0	21.2		ug/L		85	55 - 144	3	15
Carbon disulfide	ND		25.0	21.4		ug/L		86	59 - 134	2	15
Carbon tetrachloride	ND		25.0	21.8		ug/L		87	72 - 134	1	15
Chlorobenzene	ND		25.0	24.1		ug/L		96	72 - 120	2	25
Chloroethane	ND		25.0	22.5		ug/L		90	69 - 136	0	15
Chloroform	ND		25.0	23.7		ug/L		95	73 - 127	1	20
Chloromethane	ND		25.0	21.7		ug/L		87	68 - 124	8	15
cis-1,2-Dichloroethene	ND		25.0	26.6		ug/L		106	74 - 124	6	15
cis-1,3-Dichloropropene	ND		25.0	22.4		ug/L		90	74 - 124	1	15
Cyclohexane	ND		25.0	19.3		ug/L		77	59 - 135	0	20
Dibromochloromethane	ND		25.0	20.3		ug/L		81	75 - 125	2	15
Dichlorodifluoromethane	ND		25.0	18.5		ug/L		74	59 - 135	3	20
Ethylbenzene	ND		25.0	22.9		ug/L		91	77 - 123	2	15
Isopropylbenzene	ND		25.0	22.3		ug/L		89	77 - 122	2	20
Methyl acetate	ND		125	102		ug/L		81	74 - 133	3	20
Methyl tert-butyl ether	ND		25.0	22.8		ug/L		91	64 - 127	5	37
Methylcyclohexane	ND		25.0	19.1		ug/L		77	61 - 138	2	20
Methylene Chloride	ND		25.0	23.5		ug/L		94	57 - 132	1	15
Styrene	ND		25.0	22.5		ug/L		90	70 - 130	2	20
Tetrachloroethene	ND		25.0	24.0		ug/L		96	74 - 122	5	20
Toluene	ND		25.0	23.2		ug/L		93	80 - 122	4	15
trans-1,2-Dichloroethene	ND		25.0	24.2		ug/L		97	73 - 127	1	20
trans-1,3-Dichloropropene	ND		25.0	21.4		ug/L		86	72 - 123	1	15
Trichloroethene	ND		25.0	24.4		ug/L		98	74 - 123	4	16
Trichlorofluoromethane	ND		25.0	20.9		ug/L		84	62 - 152	2	20
Vinyl chloride	1.8		25.0	21.8		ug/L		80	65 - 133	2	15

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

Lab Sample ID: 480-103053-6 MSD
Matrix: Water
Analysis Batch: 311196

Client Sample ID: MW-21
Prep Type: Total/NA

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*66 - 137*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*
Toluene-d8 (Surr)	*97*		*71 - 126*

Lab Sample ID: MB 480-311270/6
Matrix: Water
Analysis Batch: 311270

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/15/16 10:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/15/16 10:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/15/16 10:30	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/15/16 10:30	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/15/16 10:30	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/15/16 10:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/15/16 10:30	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/15/16 10:30	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/15/16 10:30	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/15/16 10:30	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/15/16 10:30	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/15/16 10:30	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/15/16 10:30	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/15/16 10:30	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/15/16 10:30	1
2-Hexanone	ND		5.0	1.2	ug/L			07/15/16 10:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/15/16 10:30	1
Acetone	ND		10	3.0	ug/L			07/15/16 10:30	1
Benzene	ND		1.0	0.41	ug/L			07/15/16 10:30	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/15/16 10:30	1
Bromoform	ND		1.0	0.26	ug/L			07/15/16 10:30	1
Bromomethane	ND		1.0	0.69	ug/L			07/15/16 10:30	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/15/16 10:30	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/15/16 10:30	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/15/16 10:30	1
Chloroethane	ND		1.0	0.32	ug/L			07/15/16 10:30	1
Chloroform	ND		1.0	0.34	ug/L			07/15/16 10:30	1
Chloromethane	ND		1.0	0.35	ug/L			07/15/16 10:30	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/15/16 10:30	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/15/16 10:30	1
Cyclohexane	ND		1.0	0.18	ug/L			07/15/16 10:30	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/15/16 10:30	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/15/16 10:30	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/15/16 10:30	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/15/16 10:30	1
Methyl acetate	ND		2.5	1.3	ug/L			07/15/16 10:30	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/15/16 10:30	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/15/16 10:30	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/15/16 10:30	1

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

Lab Sample ID: MB 480-311270/6
Matrix: Water
Analysis Batch: 311270

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0	0.73	ug/L			07/15/16 10:30	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/15/16 10:30	1
Toluene	ND		1.0	0.51	ug/L			07/15/16 10:30	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/15/16 10:30	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/15/16 10:30	1
Trichloroethene	ND		1.0	0.46	ug/L			07/15/16 10:30	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/15/16 10:30	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/15/16 10:30	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/15/16 10:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*66 - 137*		*07/15/16 10:30*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*07/15/16 10:30*	*1*
Toluene-d8 (Surr)	*94*		*71 - 126*		*07/15/16 10:30*	*1*

Lab Sample ID: LCS 480-311270/4
Matrix: Water
Analysis Batch: 311270

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	24.7		ug/L		99	73 - 126
1,1,2,2-Tetrachloroethane	25.0	21.1		ug/L		84	70 - 126
1,1,2-Trichloro-1,2,2-trifluoroetha ne	25.0	25.2		ug/L		101	52 - 148
1,1,2-Trichloroethane	25.0	23.1		ug/L		92	76 - 122
1,1-Dichloroethane	25.0	24.6		ug/L		98	71 - 129
1,1-Dichloroethene	25.0	24.6		ug/L		98	58 - 121
1,2,4-Trichlorobenzene	25.0	22.9		ug/L		92	70 - 122
1,2-Dibromo-3-Chloropropane	25.0	17.1		ug/L		68	56 - 134
1,2-Dibromoethane	25.0	22.7		ug/L		91	77 - 120
1,2-Dichlorobenzene	25.0	24.6		ug/L		98	80 - 124
1,2-Dichloroethane	25.0	24.1		ug/L		96	75 - 127
1,2-Dichloropropane	25.0	25.4		ug/L		102	76 - 120
1,3-Dichlorobenzene	25.0	24.7		ug/L		99	77 - 120
1,4-Dichlorobenzene	25.0	24.2		ug/L		97	75 - 120
2-Butanone (MEK)	125	119		ug/L		95	57 - 140
2-Hexanone	125	112		ug/L		90	65 - 127
4-Methyl-2-pentanone (MIBK)	125	106		ug/L		84	71 - 125
Acetone	125	139		ug/L		111	56 - 142
Benzene	25.0	24.5		ug/L		98	71 - 124
Bromodichloromethane	25.0	23.3		ug/L		93	80 - 122
Bromoform	25.0	19.9		ug/L		80	52 - 132
Bromomethane	25.0	22.2		ug/L		89	55 - 144
Carbon disulfide	25.0	22.9		ug/L		92	59 - 134
Carbon tetrachloride	25.0	24.4		ug/L		98	72 - 134
Chlorobenzene	25.0	24.5		ug/L		98	72 - 120
Chloroethane	25.0	22.8		ug/L		91	69 - 136
Chloroform	25.0	24.1		ug/L		96	73 - 127

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

Lab Sample ID: LCS 480-311270/4
Matrix: Water
Analysis Batch: 311270

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	25.0	23.6		ug/L		94	68 - 124
cis-1,2-Dichloroethene	25.0	25.8		ug/L		103	74 - 124
cis-1,3-Dichloropropene	25.0	23.4		ug/L		93	74 - 124
Cyclohexane	25.0	24.7		ug/L		99	59 - 135
Dibromochloromethane	25.0	22.1		ug/L		89	75 - 125
Dichlorodifluoromethane	25.0	26.8		ug/L		107	59 - 135
Ethylbenzene	25.0	23.3		ug/L		93	77 - 123
Isopropylbenzene	25.0	23.4		ug/L		93	77 - 122
Methyl acetate	125	103		ug/L		82	74 - 133
Methyl tert-butyl ether	25.0	22.0		ug/L		88	64 - 127
Methylcyclohexane	25.0	26.2		ug/L		105	61 - 138
Methylene Chloride	25.0	24.3		ug/L		97	57 - 132
Styrene	25.0	23.7		ug/L		95	70 - 130
Tetrachloroethene	25.0	25.5		ug/L		102	74 - 122
Toluene	25.0	23.8		ug/L		95	80 - 122
trans-1,2-Dichloroethene	25.0	25.2		ug/L		101	73 - 127
trans-1,3-Dichloropropene	25.0	22.6		ug/L		90	72 - 123
Trichloroethene	25.0	24.7		ug/L		99	74 - 123
Trichlorofluoromethane	25.0	26.2		ug/L		105	62 - 152
Vinyl chloride	25.0	22.6		ug/L		90	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*66 - 137*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*
Toluene-d8 (Surr)	*96*		*71 - 126*

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

GC/MS VOA

Analysis Batch: 311052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-103053-1	TRIP BLANK	Total/NA	Water	8260C	
480-103053-2	MW-3	Total/NA	WATER	8260C	
480-103053-3	MW-1	Total/NA	Water	8260C	
480-103053-4	MW-18	Total/NA	Water	8260C	
480-103053-7	PZ-5	Total/NA	Water	8260C	
480-103053-8	PZ-11R	Total/NA	Water	8260C	
480-103053-9	PZ-13R	Total/NA	Water	8260C	
480-103053-10	A2-PZ-1	Total/NA	Water	8260C	
480-103053-12	A1-PZ-2	Total/NA	Water	8260C	
480-103053-13	MW-20-S/D	Total/NA	Water	8260C	
MB 480-311052/6	Method Blank	Total/NA	Water	8260C	
LCS 480-311052/4	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 311196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-103053-5	MW-20	Total/NA	Water	8260C	
480-103053-6	MW-21	Total/NA	Water	8260C	
480-103053-7 - DL	PZ-5	Total/NA	Water	8260C	
480-103053-11	A2-PZ-2	Total/NA	Water	8260C	
MB 480-311196/6	Method Blank	Total/NA	Water	8260C	
LCS 480-311196/4	Lab Control Sample	Total/NA	Water	8260C	
480-103053-6 MS	MW-21	Total/NA	Water	8260C	
480-103053-6 MSD	MW-21	Total/NA	Water	8260C	

Analysis Batch: 311270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-103053-10 - DL	A2-PZ-1	Total/NA	Water	8260C	
MB 480-311270/6	Method Blank	Total/NA	Water	8260C	
LCS 480-311270/4	Lab Control Sample	Total/NA	Water	8260C	

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-103053-1

Date Collected: 07/11/16 16:00 — **Matrix: Water**
Date Received: 07/14/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	311052	07/14/16 13:07	GVF	TAL BUF

Client Sample ID: MW-3 — Lab Sample ID: 480-103053-2

Date Collected: 07/12/16 15:00 — **Matrix: WATER**
Date Received: 07/14/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	311052	07/14/16 13:34	GVF	TAL BUF

Client Sample ID: MW-1 — Lab Sample ID: 480-103053-3

Date Collected: 07/12/16 15:10 — **Matrix: Water**
Date Received: 07/14/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	311052	07/14/16 14:01	GVF	TAL BUF

Client Sample ID: MW-18 — Lab Sample ID: 480-103053-4

Date Collected: 07/13/16 09:31 — **Matrix: Water**
Date Received: 07/14/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	311052	07/14/16 14:28	GVF	TAL BUF

Client Sample ID: MW-20 — Lab Sample ID: 480-103053-5

Date Collected: 07/12/16 11:30 — **Matrix: Water**
Date Received: 07/14/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	311196	07/15/16 01:52	SWO	TAL BUF

Client Sample ID: MW-21 — Lab Sample ID: 480-103053-6

Date Collected: 07/12/16 09:30 — **Matrix: Water**
Date Received: 07/14/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	311196	07/15/16 02:19	SWO	TAL BUF

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

Client Sample ID: PZ-5
Lab Sample ID: 480-103053-7
Date Collected: 07/11/16 16:15
Matrix: Water
Date Received: 07/14/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	311052	07/14/16 15:48	GVF	TAL BUF
Total/NA	Analysis	8260C	DL	2	311196	07/15/16 02:46	SWO	TAL BUF

Client Sample ID: PZ-11R
Lab Sample ID: 480-103053-8
Date Collected: 07/12/16 13:15
Matrix: Water
Date Received: 07/14/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	311052	07/14/16 16:15	GVF	TAL BUF

Client Sample ID: PZ-13R
Lab Sample ID: 480-103053-9
Date Collected: 07/12/16 13:35
Matrix: Water
Date Received: 07/14/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	311052	07/14/16 16:42	GVF	TAL BUF

Client Sample ID: A2-PZ-1
Lab Sample ID: 480-103053-10
Date Collected: 07/13/16 08:35
Matrix: Water
Date Received: 07/14/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	311052	07/14/16 17:08	GVF	TAL BUF
Total/NA	Analysis	8260C	DL	400	311270	07/15/16 11:00	GVF	TAL BUF

Client Sample ID: A2-PZ-2
Lab Sample ID: 480-103053-11
Date Collected: 07/13/16 09:50
Matrix: Water
Date Received: 07/14/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	311196	07/15/16 03:40	SWO	TAL BUF

Client Sample ID: A1-PZ-2
Lab Sample ID: 480-103053-12
Date Collected: 07/12/16 11:45
Matrix: Water
Date Received: 07/14/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	311052	07/14/16 18:02	GVF	TAL BUF

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

Client Sample ID: MW-20-S/D

Date Collected: 07/12/16 11:35
Date Received: 07/14/16 01:45

Lab Sample ID: 480-103053-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	311052	07/14/16 18:29	GVF	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corp - Quarterly

TestAmerica Job ID: 480-103053-1
SDG: 103053

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF

Protocol References:

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

480-103053 Chain of Custody

Client Information

Client Contact: Bob Mahoney
Company: Stantec Consulting Services Inc
Address: 61 Commercial Street
City: Rochester
State, Zip: NY, 14614
Phone: (585) 413-5301
Email: bob.mahoney@stantec.com
Project Name: LMC - Quarterly Event Desc: Lockheed Martin Corp - Quarterly
Site: New York

Sampler: L. Best
Phone: (585)413-5327
Lab PM: VanDette, Ryan T
E-Mail: ryan.vandette@testamericainc.com

Due Date Requested:
TAT Requested (days): Std 10day
PO #: Purchase Order not required
WO #: 10137
Project #: 48002828
SSOW#:

COC No: 480-85004-19158.1
Page: Page 1 of 2
Job #:

Analysis Re

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL list OLM04.2	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
TRIP BLANK	7/11/16	16:00	G	Water			X	3	
MW-3	7/12/16	15:00	G	Water			X	3	
MW-1	7/12/16	15:10	G	Water			X	3	
~~MW-13S~~			G	~~Water~~					(12)
MW-18	7/13/16	09:31	G	Water			X	3	
MW-20	7/12/16	11:30	G	Water			X	3	
MW-21	7/12/16	09:30	G	Water			X	9	MS/MSD
PZ-5	7/11/16	16:15	G	Water			X	3	
~~PZ-6~~				~~Water~~					(12)
~~PZ-8~~				~~Water~~					(12)
PZ-11R	7/12/16	13:15	G	Water			X	3	

Possible Hazard Identification
[X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
[ ] Return To Client [X] Disposal By Lab [ ] Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) NYSDEC ASP Category B deliverables; NYSDEC EQUIS EDD

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Laura Best	7/13/16 13:15	Stantec	Robert English	7-13-16, 13:15	Syr
R English	7-13-16, 19:00	Syr	H Will	7-14-16 0145	TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 0.3 #1

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: L. Best	Lab PM: VanDette, Ryan T	Carrier Tracking No(s):	COC No: 480-85004-19158.2
Client Contact: Bob Mahoney	Phone: (585) 413-5327	E-Mail: ryan.vandette@testamericainc.com		Page: Page 2 of 2
Company: Stantec Consulting Services Inc				Job #:
Address: 61 Commercial Street	Due Date Requested:			
City: Rochester	TAT Requested (days): Std 10day			
State, Zip: NY, 14614				
Phone: (585) 413-5301	PO #: Purchase Order not required			
Email: bob.mahoney@stantec.com	WO #: 10137			
Project Name: LMC - Quarterly Event Desc: Lockheed Martin Corp - Quarterly	Project #: 48002828			
Site: New York	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL list OLM04.2	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
PZ-13R	7/12/16	13:35	G	Water			X	3	
A2-PZ-1	7/13/16	08:35	G	Water			X	3	
A2-PZ-2	7/13/16	09:50	G	Water			X	3	
A1-PZ-2	7/12/16	11:45	G	Water			X	3	
MW-20-S/D	7/12/16	11:35	G	Water			X	3	
				Water					
				Water					
				Water					
				Water					
				Water					

Lena Best 7/13/16

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) NYSDEC ASP Category B deliverables; NYSDEC EQuIS EDD

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company		Date/Time:	Company
Relinquished by: Lena Best	7/13/16 13:15	Stantec	Received by: Rasto Engloth	7-13-16, 13:15	SYR
Relinquished by: R English	7-13-16, 18:00	SYR	Received by: [illegible]	7-14-16 0145	TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 0.3 #1

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 480-103053-1
SDG Number: 103053

Login Number: 103053
List Number: 1
Creator: Williams, Christopher S

List Source: TestAmerica Buffalo

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 (Excluding tests with immediate HTs)..	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	STANTEC
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: 480-107471-1

Job Description: Lockheed Martin Corporation - Quarterly

Sampling Event: Lockheed Martin Corp - Quarterly

For:
Stantec Consulting Services Inc
61 Commercial Street
Rochester, NY 14614

Attention: Bob Mahoney

Approved for release.
Denise L Giglia
Project Management Assistant II
10/24/2016 2:47 PM

Designee for
Ryan T VanDette, Project Manager II
10 Hazelwood Drive, Amherst, NY, 14228-2298
(716)504-9830
ryan.vandette@testamericainc.com
10/24/2016

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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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
*	LCS or LCSD is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job Narrative
480-107471-1

Comments
No additional comments.

Receipt
The samples were received on 10/12/2016 12:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3º C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-325584 recovered outside acceptance criteria, low biased, for Methylcyclohexane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following samples are impacted: TRIP BLANK (480-107471-1), MW-3 (480-107471-2), MW-1 (480-107471-3), PZ-6 (480-107471-8), MW-2 (480-107471-14), MW-4 (480-107471-15) and MW-1-S/D (480-107471-17).

Method(s) 8260C: The results reported for the following sample do not concur with results previously reported for this site: MW-1-S/D (480-107471-17). Reanalysis was performed, and the results confirmed.

Method(s) 8260C: The following samples were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: A2-PZ-1 (480-107471-11) and A1-PZ-2 (480-107471-13).
The sample was analyzed within 7 days per EPA recommendation.

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-18 (480-107471-4). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: MW-20 (480-107471-5). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 480-325847 was outside the method criteria for the following analytes: Carbon disulfide and 1,1-Dichloroethene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated. A2-PZ-1 (480-107471-11).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-325847 recovered outside acceptance criteria, low biased, for Cyclohexane, Methylcyclohexane and 1,1,2-Trichloro-1,2,2-trifluoroethane. A reporting limit (RL) standard was analyzed, and the target analytes were detected. Since the associated sample was non-detect for these analytes, the data have been reported. A2-PZ-1 (480-107471-11).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-325847 recovered outside acceptance criteria, low biased, for 1,1-Dichloroethene, Carbon disulfide, Cyclohexane, 1,1,2-trichloro-1,2,2-trifluoroethane and Methylcyclohexane. A reporting limit (RL) standard was analyzed, and the target analytes were detected. Since the associated samples were non-detect for these analytes, the data have been reported. MW-18 (480-107471-4), MW-20 (480-107471-5), MW-21 (480-107471-6), PZ-11R (480-107471-9), PZ-13R (480-107471-10), A1-PZ-2 (480-107471-13) and MW-10 (480-107471-16).

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: A2-PZ-2 (480-107471-12), (480-107471-B-12 MS) and (480-107471-B-12 MSD). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-325887 recovered outside acceptance criteria, low biased, for 1,1,2,2-Tetrachloroethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following sample is impacted: A2-PZ-2 (480-107471-12).

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 480-325887 recovered outside control limits for the following analytes: Dichlorodifluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The following sample is impacted: A2-PZ-2 (480-107471-12)

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: A2-PZ-1 (480-107471-11), (480-107471-C-11 MS) and (480-107471-C-11 MSD). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following samples were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: A2-PZ-1 (480-107471-11), (480-107471-C-11 MS) and (480-107471-C-11 MSD). The samples were analyzed within 7 days per EPA recommendation.

Method(s) 8260C: The results reported for the following sample do not concur with results previously reported for this site: A2-PZ-1 (480-107471-11). Reanalysis was performed, and the results confirmed.

Method(s) 8260C: Dichlorodifluoromethane was detected in the sample at a concentration above the linear range of the initial calibration curve. Due to the high dilution dictated by other target compounds, this analyte was diluted out in the re-analysis of the sample. Therefore, the value being reported is from the original analysis and is qualified as estimated with an E flag. The following sample is impacted: A2-PZ-1 (480-107471-11).

Method(s) 8260C: The continuing calibration verification (CCV) associated with analytical batch 480-325955 recovered above the upper control limit for the analyte Trichlorofluoromethane. The sample associated with this CCV was non-detect for the affected analyte; therefore, the data have been reported. The following sample is impacted: A2-PZ-1 (480-107471-11).

Method(s) 8260C: The continuing calibration verification (CCV) associated with analytical batch 480-325955 recovered outside acceptance criteria, low biased, for the analyte 1,1,2,2-Tetrachloroethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated sample was non-detect for this analyte, the data have been reported. A2-PZ-1 (480-107471-11).

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

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation - Quarterly

TestAmerica Job ID: 480-107471-1

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-107471-1

No Detections.

Client Sample ID: MW-3 — Lab Sample ID: 480-107471-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	3.1		1.0	0.38	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	22		1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	3.3		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	6.4		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	2.0		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: MW-1 — Lab Sample ID: 480-107471-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	3.3		1.0	0.38	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	23		1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	29		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	12		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: MW-18 — Lab Sample ID: 480-107471-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	18	J	20	7.6	ug/L	20		8260C	Total/NA
cis-1,2-Dichloroethene	780		20	16	ug/L	20		8260C	Total/NA
Tetrachloroethene	85		20	7.2	ug/L	20		8260C	Total/NA
Trichloroethene	120		20	9.2	ug/L	20		8260C	Total/NA

Client Sample ID: MW-20 — Lab Sample ID: 480-107471-5

No Detections.

Client Sample ID: MW-21 — Lab Sample ID: 480-107471-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	3.4		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: PZ-5 — Lab Sample ID: 480-107471-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	35		1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	11		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	19		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	1.1		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: PZ-6 — Lab Sample ID: 480-107471-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.22	J	1.0	0.19	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	22		1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	7.0		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	19		1.0	0.46	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation - Quarterly

TestAmerica Job ID: 480-107471-1

Client Sample ID: PZ-11R — Lab Sample ID: 480-107471-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.7		1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	4.2		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	7.2		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: PZ-13R — Lab Sample ID: 480-107471-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.2		1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	1.3		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	5.1		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: A2-PZ-1 — Lab Sample ID: 480-107471-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	140	E	1.0	0.31	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	400	E	1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	13		1.0	0.29	ug/L	1		8260C	Total/NA
1,2-Dichloroethane	0.96	J	1.0	0.21	ug/L	1		8260C	Total/NA
Carbon disulfide	1.3		1.0	0.19	ug/L	1		8260C	Total/NA
Chloroethane	0.92	J	1.0	0.32	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1900	E	1.0	0.81	ug/L	1		8260C	Total/NA
Dichlorodifluoromethane	320	E	1.0	0.68	ug/L	1		8260C	Total/NA
Tetrachloroethene	2.2		1.0	0.36	ug/L	1		8260C	Total/NA
Toluene	2.7		1.0	0.51	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	9.0		1.0	0.90	ug/L	1		8260C	Total/NA
Trichloroethene	390	E	1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	520	E	1.0	0.90	ug/L	1		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane - DL	180	J	200	62	ug/L	200		8260C	Total/NA
1,1-Dichloroethane - DL	600		200	76	ug/L	200		8260C	Total/NA
cis-1,2-Dichloroethene - DL	12000	F1	200	160	ug/L	200		8260C	Total/NA
Trichloroethene - DL	530		200	92	ug/L	200		8260C	Total/NA
Vinyl chloride - DL	710		200	180	ug/L	200		8260C	Total/NA

Client Sample ID: A2-PZ-2 — Lab Sample ID: 480-107471-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	3.4	J	8.0	3.0	ug/L	8		8260C	Total/NA
cis-1,2-Dichloroethene	82		8.0	6.5	ug/L	8		8260C	Total/NA
Tetrachloroethene	400	F1	8.0	2.9	ug/L	8		8260C	Total/NA
Trichloroethene	230		8.0	3.7	ug/L	8		8260C	Total/NA

Client Sample ID: A1-PZ-2 — Lab Sample ID: 480-107471-13

No Detections.

Client Sample ID: MW-2 — Lab Sample ID: 480-107471-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	3.9		1.0	0.38	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	6.4		1.0	0.81	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation - Quarterly

TestAmerica Job ID: 480-107471-1

Client Sample ID: MW-2 (Continued) — Lab Sample ID: 480-107471-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	1.5		1.0	0.90	ug/L	1		8260C	Total/NA
Vinyl chloride	12		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: MW-4 — Lab Sample ID: 480-107471-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.88	J	1.0	0.38	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	5.0		1.0	0.81	ug/L	1		8260C	Total/NA
Vinyl chloride	3.1		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: MW-10 — Lab Sample ID: 480-107471-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	3.0		1.0	0.38	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	31		1.0	0.81	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	2.8		1.0	0.90	ug/L	1		8260C	Total/NA
Trichloroethene	0.87	J	1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	23		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: MW-1-S/D — Lab Sample ID: 480-107471-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	3.5		1.0	0.38	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	25		1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	33		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	14		1.0	0.46	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation - Quarterly

TestAmerica Job ID: 480-107471-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-107471-1

Date Collected: 10/10/16 12:00
Date Received: 10/12/16 00:45

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/14/16 14:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/14/16 14:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/14/16 14:32	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/14/16 14:32	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/14/16 14:32	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/14/16 14:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/14/16 14:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/14/16 14:32	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/14/16 14:32	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/14/16 14:32	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/14/16 14:32	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/14/16 14:32	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/14/16 14:32	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/14/16 14:32	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/14/16 14:32	1
2-Hexanone	ND		5.0	1.2	ug/L			10/14/16 14:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/14/16 14:32	1
Acetone	ND		10	3.0	ug/L			10/14/16 14:32	1
Benzene	ND		1.0	0.41	ug/L			10/14/16 14:32	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/14/16 14:32	1
Bromoform	ND		1.0	0.26	ug/L			10/14/16 14:32	1
Bromomethane	ND		1.0	0.69	ug/L			10/14/16 14:32	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/14/16 14:32	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/14/16 14:32	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/14/16 14:32	1
Chloroethane	ND		1.0	0.32	ug/L			10/14/16 14:32	1
Chloroform	ND		1.0	0.34	ug/L			10/14/16 14:32	1
Chloromethane	ND		1.0	0.35	ug/L			10/14/16 14:32	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/14/16 14:32	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/14/16 14:32	1
Cyclohexane	ND		1.0	0.18	ug/L			10/14/16 14:32	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/14/16 14:32	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/14/16 14:32	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/14/16 14:32	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/14/16 14:32	1
Methyl acetate	ND		2.5	1.3	ug/L			10/14/16 14:32	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/14/16 14:32	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/14/16 14:32	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/14/16 14:32	1
Styrene	ND		1.0	0.73	ug/L			10/14/16 14:32	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/14/16 14:32	1
Toluene	ND		1.0	0.51	ug/L			10/14/16 14:32	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/14/16 14:32	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/14/16 14:32	1
Trichloroethene	ND		1.0	0.46	ug/L			10/14/16 14:32	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/14/16 14:32	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/14/16 14:32	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/14/16 14:32	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-107471-1

Date Collected: 10/10/16 12:00

Matrix: Water

Date Received: 10/12/16 00:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*10/14/16 14:32*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*10/14/16 14:32*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/14/16 14:32*	*1*

Client Sample ID: MW-3

Lab Sample ID: 480-107471-2

Date Collected: 10/10/16 15:20

Matrix: WATER

Date Received: 10/12/16 00:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/14/16 14:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/14/16 14:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/14/16 14:59	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/14/16 14:59	1
1,1-Dichloroethane	**3.1**		1.0	0.38	ug/L			10/14/16 14:59	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/14/16 14:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/14/16 14:59	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/14/16 14:59	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/14/16 14:59	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/14/16 14:59	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/14/16 14:59	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/14/16 14:59	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/14/16 14:59	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/14/16 14:59	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/14/16 14:59	1
2-Hexanone	ND		5.0	1.2	ug/L			10/14/16 14:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/14/16 14:59	1
Acetone	ND		10	3.0	ug/L			10/14/16 14:59	1
Benzene	ND		1.0	0.41	ug/L			10/14/16 14:59	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/14/16 14:59	1
Bromoform	ND		1.0	0.26	ug/L			10/14/16 14:59	1
Bromomethane	ND		1.0	0.69	ug/L			10/14/16 14:59	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/14/16 14:59	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/14/16 14:59	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/14/16 14:59	1
Chloroethane	ND		1.0	0.32	ug/L			10/14/16 14:59	1
Chloroform	ND		1.0	0.34	ug/L			10/14/16 14:59	1
Chloromethane	ND		1.0	0.35	ug/L			10/14/16 14:59	1
cis-1,2-Dichloroethene	**22**		1.0	0.81	ug/L			10/14/16 14:59	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/14/16 14:59	1
Cyclohexane	ND		1.0	0.18	ug/L			10/14/16 14:59	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/14/16 14:59	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/14/16 14:59	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/14/16 14:59	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/14/16 14:59	1
Methyl acetate	ND		2.5	1.3	ug/L			10/14/16 14:59	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/14/16 14:59	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/14/16 14:59	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/14/16 14:59	1
Styrene	ND		1.0	0.73	ug/L			10/14/16 14:59	1

Client Sample ID: MW-3

Lab Sample ID: 480-107471-2

Date Collected: 10/10/16 15:20

Matrix: WATER

Date Received: 10/12/16 00:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**3.3**		1.0	0.36	ug/L			10/14/16 14:59	1
Toluene	ND		1.0	0.51	ug/L			10/14/16 14:59	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/14/16 14:59	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/14/16 14:59	1
Trichloroethene	**6.4**		1.0	0.46	ug/L			10/14/16 14:59	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/14/16 14:59	1
Vinyl chloride	**2.0**		1.0	0.90	ug/L			10/14/16 14:59	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/14/16 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*10/14/16 14:59*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*10/14/16 14:59*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/14/16 14:59*	*1*

Client Sample ID: MW-1

Lab Sample ID: 480-107471-3

Date Collected: 10/10/16 16:45

Matrix: Water

Date Received: 10/12/16 00:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/14/16 15:26	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/14/16 15:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/14/16 15:26	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/14/16 15:26	1
1,1-Dichloroethane	**3.3**		1.0	0.38	ug/L			10/14/16 15:26	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/14/16 15:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/14/16 15:26	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/14/16 15:26	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/14/16 15:26	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/14/16 15:26	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/14/16 15:26	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/14/16 15:26	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/14/16 15:26	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/14/16 15:26	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/14/16 15:26	1
2-Hexanone	ND		5.0	1.2	ug/L			10/14/16 15:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/14/16 15:26	1
Acetone	ND		10	3.0	ug/L			10/14/16 15:26	1
Benzene	ND		1.0	0.41	ug/L			10/14/16 15:26	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/14/16 15:26	1
Bromoform	ND		1.0	0.26	ug/L			10/14/16 15:26	1
Bromomethane	ND		1.0	0.69	ug/L			10/14/16 15:26	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/14/16 15:26	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/14/16 15:26	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/14/16 15:26	1
Chloroethane	ND		1.0	0.32	ug/L			10/14/16 15:26	1
Chloroform	ND		1.0	0.34	ug/L			10/14/16 15:26	1
Chloromethane	ND		1.0	0.35	ug/L			10/14/16 15:26	1
cis-1,2-Dichloroethene	**23**		1.0	0.81	ug/L			10/14/16 15:26	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/14/16 15:26	1

Client Sample ID: MW-1

Lab Sample ID: 480-107471-3

Date Collected: 10/10/16 16:45
Matrix: Water
Date Received: 10/12/16 00:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		1.0	0.18	ug/L			10/14/16 15:26	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/14/16 15:26	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/14/16 15:26	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/14/16 15:26	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/14/16 15:26	1
Methyl acetate	ND		2.5	1.3	ug/L			10/14/16 15:26	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/14/16 15:26	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/14/16 15:26	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/14/16 15:26	1
Styrene	ND		1.0	0.73	ug/L			10/14/16 15:26	1
Tetrachloroethene	**29**		1.0	0.36	ug/L			10/14/16 15:26	1
Toluene	ND		1.0	0.51	ug/L			10/14/16 15:26	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/14/16 15:26	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/14/16 15:26	1
Trichloroethene	**12**		1.0	0.46	ug/L			10/14/16 15:26	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/14/16 15:26	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/14/16 15:26	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/14/16 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*10/14/16 15:26*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*10/14/16 15:26*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/14/16 15:26*	*1*

Client Sample ID: MW-18

Lab Sample ID: 480-107471-4

Date Collected: 10/11/16 14:10
Matrix: Water
Date Received: 10/12/16 00:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		20	16	ug/L			10/15/16 20:28	20
1,1,2,2-Tetrachloroethane	ND		20	4.2	ug/L			10/15/16 20:28	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	6.2	ug/L			10/15/16 20:28	20
1,1,2-Trichloroethane	ND		20	4.6	ug/L			10/15/16 20:28	20
1,1-Dichloroethane	**18**	**J**	20	7.6	ug/L			10/15/16 20:28	20
1,1-Dichloroethene	ND		20	5.8	ug/L			10/15/16 20:28	20
1,2,4-Trichlorobenzene	ND		20	8.2	ug/L			10/15/16 20:28	20
1,2-Dibromo-3-Chloropropane	ND		20	7.8	ug/L			10/15/16 20:28	20
1,2-Dibromoethane	ND		20	15	ug/L			10/15/16 20:28	20
1,2-Dichlorobenzene	ND		20	16	ug/L			10/15/16 20:28	20
1,2-Dichloroethane	ND		20	4.2	ug/L			10/15/16 20:28	20
1,2-Dichloropropane	ND		20	14	ug/L			10/15/16 20:28	20
1,3-Dichlorobenzene	ND		20	16	ug/L			10/15/16 20:28	20
1,4-Dichlorobenzene	ND		20	17	ug/L			10/15/16 20:28	20
2-Butanone (MEK)	ND		200	26	ug/L			10/15/16 20:28	20
2-Hexanone	ND		100	25	ug/L			10/15/16 20:28	20
4-Methyl-2-pentanone (MIBK)	ND		100	42	ug/L			10/15/16 20:28	20
Acetone	ND		200	60	ug/L			10/15/16 20:28	20
Benzene	ND		20	8.2	ug/L			10/15/16 20:28	20
Bromodichloromethane	ND		20	7.8	ug/L			10/15/16 20:28	20

Client Sample ID: MW-18

Lab Sample ID: 480-107471-4

Date Collected: 10/11/16 14:10

Matrix: Water

Date Received: 10/12/16 00:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		20	5.2	ug/L			10/15/16 20:28	20
Bromomethane	ND		20	14	ug/L			10/15/16 20:28	20
Carbon disulfide	ND		20	3.8	ug/L			10/15/16 20:28	20
Carbon tetrachloride	ND		20	5.4	ug/L			10/15/16 20:28	20
Chlorobenzene	ND		20	15	ug/L			10/15/16 20:28	20
Chloroethane	ND		20	6.4	ug/L			10/15/16 20:28	20
Chloroform	ND		20	6.8	ug/L			10/15/16 20:28	20
Chloromethane	ND		20	7.0	ug/L			10/15/16 20:28	20
cis-1,2-Dichloroethene	**780**		20	16	ug/L			10/15/16 20:28	20
cis-1,3-Dichloropropene	ND		20	7.2	ug/L			10/15/16 20:28	20
Cyclohexane	ND		20	3.6	ug/L			10/15/16 20:28	20
Dibromochloromethane	ND		20	6.4	ug/L			10/15/16 20:28	20
Dichlorodifluoromethane	ND		20	14	ug/L			10/15/16 20:28	20
Ethylbenzene	ND		20	15	ug/L			10/15/16 20:28	20
Isopropylbenzene	ND		20	16	ug/L			10/15/16 20:28	20
Methyl acetate	ND		50	26	ug/L			10/15/16 20:28	20
Methyl tert-butyl ether	ND		20	3.2	ug/L			10/15/16 20:28	20
Methylcyclohexane	ND		20	3.2	ug/L			10/15/16 20:28	20
Methylene Chloride	ND		20	8.8	ug/L			10/15/16 20:28	20
Styrene	ND		20	15	ug/L			10/15/16 20:28	20
Tetrachloroethene	**85**		20	7.2	ug/L			10/15/16 20:28	20
Toluene	ND		20	10	ug/L			10/15/16 20:28	20
trans-1,2-Dichloroethene	ND		20	18	ug/L			10/15/16 20:28	20
trans-1,3-Dichloropropene	ND		20	7.4	ug/L			10/15/16 20:28	20
Trichloroethene	**120**		20	9.2	ug/L			10/15/16 20:28	20
Trichlorofluoromethane	ND		20	18	ug/L			10/15/16 20:28	20
Vinyl chloride	ND		20	18	ug/L			10/15/16 20:28	20
Xylenes, Total	ND		40	13	ug/L			10/15/16 20:28	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*10/15/16 20:28*	*20*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*10/15/16 20:28*	*20*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/15/16 20:28*	*20*

Client Sample ID: MW-20

Lab Sample ID: 480-107471-5

Date Collected: 10/11/16 10:05

Matrix: Water

Date Received: 10/12/16 00:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			10/15/16 20:55	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			10/15/16 20:55	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			10/15/16 20:55	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			10/15/16 20:55	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			10/15/16 20:55	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			10/15/16 20:55	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			10/15/16 20:55	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			10/15/16 20:55	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			10/15/16 20:55	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			10/15/16 20:55	5

Client Sample ID: MW-20

Date Collected: 10/11/16 10:05
Date Received: 10/12/16 00:45

Lab Sample ID: 480-107471-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		5.0	1.1	ug/L			10/15/16 20:55	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			10/15/16 20:55	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			10/15/16 20:55	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			10/15/16 20:55	5
2-Butanone (MEK)	ND		50	6.6	ug/L			10/15/16 20:55	5
2-Hexanone	ND		25	6.2	ug/L			10/15/16 20:55	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			10/15/16 20:55	5
Acetone	ND		50	15	ug/L			10/15/16 20:55	5
Benzene	ND		5.0	2.1	ug/L			10/15/16 20:55	5
Bromodichloromethane	ND		5.0	2.0	ug/L			10/15/16 20:55	5
Bromoform	ND		5.0	1.3	ug/L			10/15/16 20:55	5
Bromomethane	ND		5.0	3.5	ug/L			10/15/16 20:55	5
Carbon disulfide	ND		5.0	0.95	ug/L			10/15/16 20:55	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			10/15/16 20:55	5
Chlorobenzene	ND		5.0	3.8	ug/L			10/15/16 20:55	5
Chloroethane	ND		5.0	1.6	ug/L			10/15/16 20:55	5
Chloroform	ND		5.0	1.7	ug/L			10/15/16 20:55	5
Chloromethane	ND		5.0	1.8	ug/L			10/15/16 20:55	5
cis-1,2-Dichloroethene	ND		5.0	4.1	ug/L			10/15/16 20:55	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			10/15/16 20:55	5
Cyclohexane	ND		5.0	0.90	ug/L			10/15/16 20:55	5
Dibromochloromethane	ND		5.0	1.6	ug/L			10/15/16 20:55	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			10/15/16 20:55	5
Ethylbenzene	ND		5.0	3.7	ug/L			10/15/16 20:55	5
Isopropylbenzene	ND		5.0	4.0	ug/L			10/15/16 20:55	5
Methyl acetate	ND		13	6.5	ug/L			10/15/16 20:55	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			10/15/16 20:55	5
Methylcyclohexane	ND		5.0	0.80	ug/L			10/15/16 20:55	5
Methylene Chloride	ND		5.0	2.2	ug/L			10/15/16 20:55	5
Styrene	ND		5.0	3.7	ug/L			10/15/16 20:55	5
Tetrachloroethene	ND		5.0	1.8	ug/L			10/15/16 20:55	5
Toluene	ND		5.0	2.6	ug/L			10/15/16 20:55	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			10/15/16 20:55	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			10/15/16 20:55	5
Trichloroethene	ND		5.0	2.3	ug/L			10/15/16 20:55	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			10/15/16 20:55	5
Vinyl chloride	ND		5.0	4.5	ug/L			10/15/16 20:55	5
Xylenes, Total	ND		10	3.3	ug/L			10/15/16 20:55	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*77 - 120*		*10/15/16 20:55*	*5*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*10/15/16 20:55*	*5*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/15/16 20:55*	*5*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation - Quarterly

TestAmerica Job ID: 480-107471-1

Client Sample ID: MW-21

Date Collected: 10/11/16 09:25
Date Received: 10/12/16 00:45

Lab Sample ID: 480-107471-6

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/15/16 21:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/15/16 21:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/15/16 21:22	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/15/16 21:22	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/15/16 21:22	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/15/16 21:22	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/15/16 21:22	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/15/16 21:22	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/15/16 21:22	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/15/16 21:22	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/15/16 21:22	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/15/16 21:22	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/15/16 21:22	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/15/16 21:22	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/15/16 21:22	1
2-Hexanone	ND		5.0	1.2	ug/L			10/15/16 21:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/15/16 21:22	1
Acetone	ND		10	3.0	ug/L			10/15/16 21:22	1
Benzene	ND		1.0	0.41	ug/L			10/15/16 21:22	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/15/16 21:22	1
Bromoform	ND		1.0	0.26	ug/L			10/15/16 21:22	1
Bromomethane	ND		1.0	0.69	ug/L			10/15/16 21:22	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/15/16 21:22	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/15/16 21:22	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/15/16 21:22	1
Chloroethane	ND		1.0	0.32	ug/L			10/15/16 21:22	1
Chloroform	ND		1.0	0.34	ug/L			10/15/16 21:22	1
Chloromethane	ND		1.0	0.35	ug/L			10/15/16 21:22	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/15/16 21:22	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/15/16 21:22	1
Cyclohexane	ND		1.0	0.18	ug/L			10/15/16 21:22	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/15/16 21:22	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/15/16 21:22	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/15/16 21:22	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/15/16 21:22	1
Methyl acetate	ND		2.5	1.3	ug/L			10/15/16 21:22	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/15/16 21:22	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/15/16 21:22	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/15/16 21:22	1
Styrene	ND		1.0	0.73	ug/L			10/15/16 21:22	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/15/16 21:22	1
Toluene	ND		1.0	0.51	ug/L			10/15/16 21:22	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/15/16 21:22	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/15/16 21:22	1
Trichloroethene	ND		1.0	0.46	ug/L			10/15/16 21:22	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/15/16 21:22	1
Vinyl chloride	**3.4**		1.0	0.90	ug/L			10/15/16 21:22	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/15/16 21:22	1

Client Sample ID: MW-21

Lab Sample ID: 480-107471-6

Date Collected: 10/11/16 09:25
Matrix: Water
Date Received: 10/12/16 00:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*77 - 120*		*10/15/16 21:22*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*10/15/16 21:22*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/15/16 21:22*	*1*

Client Sample ID: PZ-5

Lab Sample ID: 480-107471-7

Date Collected: 10/10/16 13:55
Matrix: Water
Date Received: 10/12/16 00:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/15/16 03:52	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/15/16 03:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/15/16 03:52	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/15/16 03:52	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/15/16 03:52	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/15/16 03:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/15/16 03:52	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/15/16 03:52	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/15/16 03:52	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/15/16 03:52	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/15/16 03:52	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/15/16 03:52	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/15/16 03:52	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/15/16 03:52	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/15/16 03:52	1
2-Hexanone	ND		5.0	1.2	ug/L			10/15/16 03:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/15/16 03:52	1
Acetone	ND		10	3.0	ug/L			10/15/16 03:52	1
Benzene	ND		1.0	0.41	ug/L			10/15/16 03:52	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/15/16 03:52	1
Bromoform	ND		1.0	0.26	ug/L			10/15/16 03:52	1
Bromomethane	ND		1.0	0.69	ug/L			10/15/16 03:52	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/15/16 03:52	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/15/16 03:52	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/15/16 03:52	1
Chloroethane	ND		1.0	0.32	ug/L			10/15/16 03:52	1
Chloroform	ND		1.0	0.34	ug/L			10/15/16 03:52	1
Chloromethane	ND		1.0	0.35	ug/L			10/15/16 03:52	1
cis-1,2-Dichloroethene	**35**		1.0	0.81	ug/L			10/15/16 03:52	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/15/16 03:52	1
Cyclohexane	ND		1.0	0.18	ug/L			10/15/16 03:52	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/15/16 03:52	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/15/16 03:52	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/15/16 03:52	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/15/16 03:52	1
Methyl acetate	ND		2.5	1.3	ug/L			10/15/16 03:52	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/15/16 03:52	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/15/16 03:52	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/15/16 03:52	1
Styrene	ND		1.0	0.73	ug/L			10/15/16 03:52	1

Client Sample ID: PZ-5

Lab Sample ID: 480-107471-7

Date Collected: 10/10/16 13:55

Matrix: Water

Date Received: 10/12/16 00:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**11**		1.0	0.36	ug/L			10/15/16 03:52	1
Toluene	ND		1.0	0.51	ug/L			10/15/16 03:52	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/15/16 03:52	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/15/16 03:52	1
Trichloroethene	**19**		1.0	0.46	ug/L			10/15/16 03:52	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/15/16 03:52	1
Vinyl chloride	**1.1**		1.0	0.90	ug/L			10/15/16 03:52	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/15/16 03:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*10/15/16 03:52*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*10/15/16 03:52*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/15/16 03:52*	*1*

Client Sample ID: PZ-6

Lab Sample ID: 480-107471-8

Date Collected: 10/10/16 13:40

Matrix: Water

Date Received: 10/12/16 00:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/14/16 16:21	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/14/16 16:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/14/16 16:21	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/14/16 16:21	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/14/16 16:21	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/14/16 16:21	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/14/16 16:21	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/14/16 16:21	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/14/16 16:21	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/14/16 16:21	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/14/16 16:21	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/14/16 16:21	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/14/16 16:21	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/14/16 16:21	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/14/16 16:21	1
2-Hexanone	ND		5.0	1.2	ug/L			10/14/16 16:21	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/14/16 16:21	1
Acetone	ND		10	3.0	ug/L			10/14/16 16:21	1
Benzene	ND		1.0	0.41	ug/L			10/14/16 16:21	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/14/16 16:21	1
Bromoform	ND		1.0	0.26	ug/L			10/14/16 16:21	1
Bromomethane	ND		1.0	0.69	ug/L			10/14/16 16:21	1
Carbon disulfide	**0.22**	**J**	1.0	0.19	ug/L			10/14/16 16:21	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/14/16 16:21	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/14/16 16:21	1
Chloroethane	ND		1.0	0.32	ug/L			10/14/16 16:21	1
Chloroform	ND		1.0	0.34	ug/L			10/14/16 16:21	1
Chloromethane	ND		1.0	0.35	ug/L			10/14/16 16:21	1
cis-1,2-Dichloroethene	**22**		1.0	0.81	ug/L			10/14/16 16:21	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/14/16 16:21	1

Client Sample ID: PZ-6

Lab Sample ID: 480-107471-8

Date Collected: 10/10/16 13:40
Matrix: Water
Date Received: 10/12/16 00:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		1.0	0.18	ug/L			10/14/16 16:21	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/14/16 16:21	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/14/16 16:21	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/14/16 16:21	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/14/16 16:21	1
Methyl acetate	ND		2.5	1.3	ug/L			10/14/16 16:21	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/14/16 16:21	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/14/16 16:21	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/14/16 16:21	1
Styrene	ND		1.0	0.73	ug/L			10/14/16 16:21	1
Tetrachloroethene	**7.0**		1.0	0.36	ug/L			10/14/16 16:21	1
Toluene	ND		1.0	0.51	ug/L			10/14/16 16:21	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/14/16 16:21	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/14/16 16:21	1
Trichloroethene	**19**		1.0	0.46	ug/L			10/14/16 16:21	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/14/16 16:21	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/14/16 16:21	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/14/16 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*10/14/16 16:21*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*10/14/16 16:21*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/14/16 16:21*	*1*

Client Sample ID: PZ-11R

Lab Sample ID: 480-107471-9

Date Collected: 10/11/16 14:45
Matrix: Water
Date Received: 10/12/16 00:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/15/16 21:49	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/15/16 21:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/15/16 21:49	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/15/16 21:49	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/15/16 21:49	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/15/16 21:49	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/15/16 21:49	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/15/16 21:49	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/15/16 21:49	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/15/16 21:49	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/15/16 21:49	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/15/16 21:49	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/15/16 21:49	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/15/16 21:49	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/15/16 21:49	1
2-Hexanone	ND		5.0	1.2	ug/L			10/15/16 21:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/15/16 21:49	1
Acetone	ND		10	3.0	ug/L			10/15/16 21:49	1
Benzene	ND		1.0	0.41	ug/L			10/15/16 21:49	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/15/16 21:49	1

Client Sample ID: PZ-11R

Date Collected: 10/11/16 14:45
Date Received: 10/12/16 00:45

Lab Sample ID: 480-107471-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		1.0	0.26	ug/L			10/15/16 21:49	1
Bromomethane	ND		1.0	0.69	ug/L			10/15/16 21:49	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/15/16 21:49	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/15/16 21:49	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/15/16 21:49	1
Chloroethane	ND		1.0	0.32	ug/L			10/15/16 21:49	1
Chloroform	ND		1.0	0.34	ug/L			10/15/16 21:49	1
Chloromethane	ND		1.0	0.35	ug/L			10/15/16 21:49	1
cis-1,2-Dichloroethene	**1.7**		1.0	0.81	ug/L			10/15/16 21:49	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/15/16 21:49	1
Cyclohexane	ND		1.0	0.18	ug/L			10/15/16 21:49	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/15/16 21:49	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/15/16 21:49	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/15/16 21:49	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/15/16 21:49	1
Methyl acetate	ND		2.5	1.3	ug/L			10/15/16 21:49	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/15/16 21:49	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/15/16 21:49	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/15/16 21:49	1
Styrene	ND		1.0	0.73	ug/L			10/15/16 21:49	1
Tetrachloroethene	**4.2**		1.0	0.36	ug/L			10/15/16 21:49	1
Toluene	ND		1.0	0.51	ug/L			10/15/16 21:49	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/15/16 21:49	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/15/16 21:49	1
Trichloroethene	**7.2**		1.0	0.46	ug/L			10/15/16 21:49	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/15/16 21:49	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/15/16 21:49	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/15/16 21:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*77 - 120*		*10/15/16 21:49*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*10/15/16 21:49*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/15/16 21:49*	*1*

Client Sample ID: PZ-13R

Date Collected: 10/11/16 15:00
Date Received: 10/12/16 00:45

Lab Sample ID: 480-107471-10

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/15/16 22:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/15/16 22:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/15/16 22:15	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/15/16 22:15	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/15/16 22:15	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/15/16 22:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/15/16 22:15	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/15/16 22:15	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/15/16 22:15	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/15/16 22:15	1

Client Sample ID: PZ-13R

Date Collected: 10/11/16 15:00
Date Received: 10/12/16 00:45

Lab Sample ID: 480-107471-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/15/16 22:15	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/15/16 22:15	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/15/16 22:15	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/15/16 22:15	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/15/16 22:15	1
2-Hexanone	ND		5.0	1.2	ug/L			10/15/16 22:15	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/15/16 22:15	1
Acetone	ND		10	3.0	ug/L			10/15/16 22:15	1
Benzene	ND		1.0	0.41	ug/L			10/15/16 22:15	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/15/16 22:15	1
Bromoform	ND		1.0	0.26	ug/L			10/15/16 22:15	1
Bromomethane	ND		1.0	0.69	ug/L			10/15/16 22:15	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/15/16 22:15	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/15/16 22:15	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/15/16 22:15	1
Chloroethane	ND		1.0	0.32	ug/L			10/15/16 22:15	1
Chloroform	ND		1.0	0.34	ug/L			10/15/16 22:15	1
Chloromethane	ND		1.0	0.35	ug/L			10/15/16 22:15	1
cis-1,2-Dichloroethene	**2.2**		1.0	0.81	ug/L			10/15/16 22:15	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/15/16 22:15	1
Cyclohexane	ND		1.0	0.18	ug/L			10/15/16 22:15	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/15/16 22:15	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/15/16 22:15	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/15/16 22:15	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/15/16 22:15	1
Methyl acetate	ND		2.5	1.3	ug/L			10/15/16 22:15	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/15/16 22:15	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/15/16 22:15	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/15/16 22:15	1
Styrene	ND		1.0	0.73	ug/L			10/15/16 22:15	1
Tetrachloroethene	**1.3**		1.0	0.36	ug/L			10/15/16 22:15	1
Toluene	ND		1.0	0.51	ug/L			10/15/16 22:15	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/15/16 22:15	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/15/16 22:15	1
Trichloroethene	**5.1**		1.0	0.46	ug/L			10/15/16 22:15	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/15/16 22:15	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/15/16 22:15	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/15/16 22:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*10/15/16 22:15*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*10/15/16 22:15*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/15/16 22:15*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation - Quarterly

TestAmerica Job ID: 480-107471-1

Client Sample ID: A2-PZ-1

Date Collected: 10/11/16 11:25
Date Received: 10/12/16 00:45

Lab Sample ID: 480-107471-11

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/15/16 22:42	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/15/16 22:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**140**	**E**	1.0	0.31	ug/L			10/15/16 22:42	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/15/16 22:42	1
1,1-Dichloroethane	**400**	**E**	1.0	0.38	ug/L			10/15/16 22:42	1
1,1-Dichloroethene	**13**		1.0	0.29	ug/L			10/15/16 22:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/15/16 22:42	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/15/16 22:42	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/15/16 22:42	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/15/16 22:42	1
1,2-Dichloroethane	**0.96**	**J**	1.0	0.21	ug/L			10/15/16 22:42	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/15/16 22:42	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/15/16 22:42	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/15/16 22:42	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/15/16 22:42	1
2-Hexanone	ND		5.0	1.2	ug/L			10/15/16 22:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/15/16 22:42	1
Acetone	ND		10	3.0	ug/L			10/15/16 22:42	1
Benzene	ND		1.0	0.41	ug/L			10/15/16 22:42	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/15/16 22:42	1
Bromoform	ND		1.0	0.26	ug/L			10/15/16 22:42	1
Bromomethane	ND		1.0	0.69	ug/L			10/15/16 22:42	1
Carbon disulfide	**1.3**		1.0	0.19	ug/L			10/15/16 22:42	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/15/16 22:42	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/15/16 22:42	1
Chloroethane	**0.92**	**J**	1.0	0.32	ug/L			10/15/16 22:42	1
Chloroform	ND		1.0	0.34	ug/L			10/15/16 22:42	1
Chloromethane	ND		1.0	0.35	ug/L			10/15/16 22:42	1
cis-1,2-Dichloroethene	**1900**	**E**	1.0	0.81	ug/L			10/15/16 22:42	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/15/16 22:42	1
Cyclohexane	ND		1.0	0.18	ug/L			10/15/16 22:42	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/15/16 22:42	1
Dichlorodifluoromethane	**320**	**E**	1.0	0.68	ug/L			10/15/16 22:42	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/15/16 22:42	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/15/16 22:42	1
Methyl acetate	ND		2.5	1.3	ug/L			10/15/16 22:42	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/15/16 22:42	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/15/16 22:42	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/15/16 22:42	1
Styrene	ND		1.0	0.73	ug/L			10/15/16 22:42	1
Tetrachloroethene	**2.2**		1.0	0.36	ug/L			10/15/16 22:42	1
Toluene	**2.7**		1.0	0.51	ug/L			10/15/16 22:42	1
trans-1,2-Dichloroethene	**9.0**		1.0	0.90	ug/L			10/15/16 22:42	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/15/16 22:42	1
Trichloroethene	**390**	**E**	1.0	0.46	ug/L			10/15/16 22:42	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/15/16 22:42	1
Vinyl chloride	**520**	**E**	1.0	0.90	ug/L			10/15/16 22:42	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/15/16 22:42	1

Client Sample ID: A2-PZ-1

Date Collected: 10/11/16 11:25
Date Received: 10/12/16 00:45

Lab Sample ID: 480-107471-11

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*77 - 120*		*10/15/16 22:42*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*10/15/16 22:42*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/15/16 22:42*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		200	160	ug/L			10/17/16 11:03	200
1,1,2,2-Tetrachloroethane	ND		200	42	ug/L			10/17/16 11:03	200
1,1,2-Trichloro-1,2,2-trifluoroethane	**180**	**J**	200	62	ug/L			10/17/16 11:03	200
1,1,2-Trichloroethane	ND		200	46	ug/L			10/17/16 11:03	200
1,1-Dichloroethane	**600**		200	76	ug/L			10/17/16 11:03	200
1,1-Dichloroethene	ND		200	58	ug/L			10/17/16 11:03	200
1,2,4-Trichlorobenzene	ND		200	82	ug/L			10/17/16 11:03	200
1,2-Dibromo-3-Chloropropane	ND		200	78	ug/L			10/17/16 11:03	200
1,2-Dibromoethane	ND		200	150	ug/L			10/17/16 11:03	200
1,2-Dichlorobenzene	ND		200	160	ug/L			10/17/16 11:03	200
1,2-Dichloroethane	ND		200	42	ug/L			10/17/16 11:03	200
1,2-Dichloropropane	ND		200	140	ug/L			10/17/16 11:03	200
1,3-Dichlorobenzene	ND		200	160	ug/L			10/17/16 11:03	200
1,4-Dichlorobenzene	ND		200	170	ug/L			10/17/16 11:03	200
2-Butanone (MEK)	ND		2000	260	ug/L			10/17/16 11:03	200
2-Hexanone	ND		1000	250	ug/L			10/17/16 11:03	200
4-Methyl-2-pentanone (MIBK)	ND		1000	420	ug/L			10/17/16 11:03	200
Acetone	ND		2000	600	ug/L			10/17/16 11:03	200
Benzene	ND		200	82	ug/L			10/17/16 11:03	200
Bromodichloromethane	ND		200	78	ug/L			10/17/16 11:03	200
Bromoform	ND		200	52	ug/L			10/17/16 11:03	200
Bromomethane	ND		200	140	ug/L			10/17/16 11:03	200
Carbon disulfide	ND		200	38	ug/L			10/17/16 11:03	200
Carbon tetrachloride	ND		200	54	ug/L			10/17/16 11:03	200
Chlorobenzene	ND		200	150	ug/L			10/17/16 11:03	200
Chloroethane	ND		200	64	ug/L			10/17/16 11:03	200
Chloroform	ND		200	68	ug/L			10/17/16 11:03	200
Chloromethane	ND		200	70	ug/L			10/17/16 11:03	200
cis-1,2-Dichloroethene	**12000**	**F1**	200	160	ug/L			10/17/16 11:03	200
cis-1,3-Dichloropropene	ND		200	72	ug/L			10/17/16 11:03	200
Cyclohexane	ND		200	36	ug/L			10/17/16 11:03	200
Dibromochloromethane	ND		200	64	ug/L			10/17/16 11:03	200
Dichlorodifluoromethane	ND		200	140	ug/L			10/17/16 11:03	200
Ethylbenzene	ND		200	150	ug/L			10/17/16 11:03	200
Isopropylbenzene	ND		200	160	ug/L			10/17/16 11:03	200
Methyl acetate	ND		500	260	ug/L			10/17/16 11:03	200
Methyl tert-butyl ether	ND		200	32	ug/L			10/17/16 11:03	200
Methylcyclohexane	ND		200	32	ug/L			10/17/16 11:03	200
Methylene Chloride	ND		200	88	ug/L			10/17/16 11:03	200
Styrene	ND		200	150	ug/L			10/17/16 11:03	200
Tetrachloroethene	ND		200	72	ug/L			10/17/16 11:03	200
Toluene	ND		200	100	ug/L			10/17/16 11:03	200
trans-1,2-Dichloroethene	ND		200	180	ug/L			10/17/16 11:03	200

Client Sample ID: A2-PZ-1

Lab Sample ID: 480-107471-11

Date Collected: 10/11/16 11:25
Matrix: Water
Date Received: 10/12/16 00:45

Method: 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		200	74	ug/L			10/17/16 11:03	200
Trichloroethene	**530**		200	92	ug/L			10/17/16 11:03	200
Trichlorofluoromethane	ND		200	180	ug/L			10/17/16 11:03	200
Vinyl chloride	**710**		200	180	ug/L			10/17/16 11:03	200
Xylenes, Total	ND		400	130	ug/L			10/17/16 11:03	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*77 - 120*		*10/17/16 11:03*	*200*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*10/17/16 11:03*	*200*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/17/16 11:03*	*200*

Client Sample ID: A2-PZ-2

Lab Sample ID: 480-107471-12

Date Collected: 10/11/16 14:25
Matrix: Water
Date Received: 10/12/16 00:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		8.0	6.6	ug/L			10/16/16 22:21	8
1,1,2,2-Tetrachloroethane	ND		8.0	1.7	ug/L			10/16/16 22:21	8
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.0	2.5	ug/L			10/16/16 22:21	8
1,1,2-Trichloroethane	ND		8.0	1.8	ug/L			10/16/16 22:21	8
1,1-Dichloroethane	**3.4**	**J**	8.0	3.0	ug/L			10/16/16 22:21	8
1,1-Dichloroethene	ND		8.0	2.3	ug/L			10/16/16 22:21	8
1,2,4-Trichlorobenzene	ND		8.0	3.3	ug/L			10/16/16 22:21	8
1,2-Dibromo-3-Chloropropane	ND		8.0	3.1	ug/L			10/16/16 22:21	8
1,2-Dibromoethane	ND		8.0	5.8	ug/L			10/16/16 22:21	8
1,2-Dichlorobenzene	ND		8.0	6.3	ug/L			10/16/16 22:21	8
1,2-Dichloroethane	ND		8.0	1.7	ug/L			10/16/16 22:21	8
1,2-Dichloropropane	ND		8.0	5.8	ug/L			10/16/16 22:21	8
1,3-Dichlorobenzene	ND		8.0	6.2	ug/L			10/16/16 22:21	8
1,4-Dichlorobenzene	ND		8.0	6.7	ug/L			10/16/16 22:21	8
2-Butanone (MEK)	ND		80	11	ug/L			10/16/16 22:21	8
2-Hexanone	ND		40	9.9	ug/L			10/16/16 22:21	8
4-Methyl-2-pentanone (MIBK)	ND		40	17	ug/L			10/16/16 22:21	8
Acetone	ND		80	24	ug/L			10/16/16 22:21	8
Benzene	ND		8.0	3.3	ug/L			10/16/16 22:21	8
Bromodichloromethane	ND		8.0	3.1	ug/L			10/16/16 22:21	8
Bromoform	ND		8.0	2.1	ug/L			10/16/16 22:21	8
Bromomethane	ND		8.0	5.5	ug/L			10/16/16 22:21	8
Carbon disulfide	ND		8.0	1.5	ug/L			10/16/16 22:21	8
Carbon tetrachloride	ND		8.0	2.2	ug/L			10/16/16 22:21	8
Chlorobenzene	ND		8.0	6.0	ug/L			10/16/16 22:21	8
Chloroethane	ND		8.0	2.6	ug/L			10/16/16 22:21	8
Chloroform	ND		8.0	2.7	ug/L			10/16/16 22:21	8
Chloromethane	ND		8.0	2.8	ug/L			10/16/16 22:21	8
cis-1,2-Dichloroethene	**82**		8.0	6.5	ug/L			10/16/16 22:21	8
cis-1,3-Dichloropropene	ND		8.0	2.9	ug/L			10/16/16 22:21	8
Cyclohexane	ND		8.0	1.4	ug/L			10/16/16 22:21	8
Dibromochloromethane	ND		8.0	2.6	ug/L			10/16/16 22:21	8
Dichlorodifluoromethane	ND	*	8.0	5.4	ug/L			10/16/16 22:21	8

Client Sample ID: A2-PZ-2

Lab Sample ID: 480-107471-12

Date Collected: 10/11/16 14:25

Matrix: Water

Date Received: 10/12/16 00:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		8.0	5.9	ug/L			10/16/16 22:21	8
Isopropylbenzene	ND		8.0	6.3	ug/L			10/16/16 22:21	8
Methyl acetate	ND		20	10	ug/L			10/16/16 22:21	8
Methyl tert-butyl ether	ND		8.0	1.3	ug/L			10/16/16 22:21	8
Methylcyclohexane	ND		8.0	1.3	ug/L			10/16/16 22:21	8
Methylene Chloride	ND		8.0	3.5	ug/L			10/16/16 22:21	8
Styrene	ND		8.0	5.8	ug/L			10/16/16 22:21	8
Tetrachloroethene	**400**	**F1**	8.0	2.9	ug/L			10/16/16 22:21	8
Toluene	ND		8.0	4.1	ug/L			10/16/16 22:21	8
trans-1,2-Dichloroethene	ND		8.0	7.2	ug/L			10/16/16 22:21	8
trans-1,3-Dichloropropene	ND		8.0	3.0	ug/L			10/16/16 22:21	8
Trichloroethene	**230**		8.0	3.7	ug/L			10/16/16 22:21	8
Trichlorofluoromethane	ND		8.0	7.0	ug/L			10/16/16 22:21	8
Vinyl chloride	ND		8.0	7.2	ug/L			10/16/16 22:21	8
Xylenes, Total	ND		16	5.3	ug/L			10/16/16 22:21	8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*77 - 120*		*10/16/16 22:21*	*8*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*10/16/16 22:21*	*8*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/16/16 22:21*	*8*

Client Sample ID: A1-PZ-2

Lab Sample ID: 480-107471-13

Date Collected: 10/11/16 10:45

Matrix: Water

Date Received: 10/12/16 00:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/15/16 23:36	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/15/16 23:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/15/16 23:36	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/15/16 23:36	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/15/16 23:36	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/15/16 23:36	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/15/16 23:36	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/15/16 23:36	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/15/16 23:36	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/15/16 23:36	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/15/16 23:36	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/15/16 23:36	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/15/16 23:36	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/15/16 23:36	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/15/16 23:36	1
2-Hexanone	ND		5.0	1.2	ug/L			10/15/16 23:36	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/15/16 23:36	1
Acetone	ND		10	3.0	ug/L			10/15/16 23:36	1
Benzene	ND		1.0	0.41	ug/L			10/15/16 23:36	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/15/16 23:36	1
Bromoform	ND		1.0	0.26	ug/L			10/15/16 23:36	1
Bromomethane	ND		1.0	0.69	ug/L			10/15/16 23:36	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/15/16 23:36	1

Client Sample ID: A1-PZ-2

Lab Sample ID: 480-107471-13

Date Collected: 10/11/16 10:45
Matrix: Water
Date Received: 10/12/16 00:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/15/16 23:36	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/15/16 23:36	1
Chloroethane	ND		1.0	0.32	ug/L			10/15/16 23:36	1
Chloroform	ND		1.0	0.34	ug/L			10/15/16 23:36	1
Chloromethane	ND		1.0	0.35	ug/L			10/15/16 23:36	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/15/16 23:36	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/15/16 23:36	1
Cyclohexane	ND		1.0	0.18	ug/L			10/15/16 23:36	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/15/16 23:36	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/15/16 23:36	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/15/16 23:36	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/15/16 23:36	1
Methyl acetate	ND		2.5	1.3	ug/L			10/15/16 23:36	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/15/16 23:36	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/15/16 23:36	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/15/16 23:36	1
Styrene	ND		1.0	0.73	ug/L			10/15/16 23:36	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/15/16 23:36	1
Toluene	ND		1.0	0.51	ug/L			10/15/16 23:36	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/15/16 23:36	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/15/16 23:36	1
Trichloroethene	ND		1.0	0.46	ug/L			10/15/16 23:36	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/15/16 23:36	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/15/16 23:36	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/15/16 23:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*77 - 120*		*10/15/16 23:36*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*10/15/16 23:36*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/15/16 23:36*	*1*

Client Sample ID: MW-2

Lab Sample ID: 480-107471-14

Date Collected: 10/10/16 16:50
Matrix: Water
Date Received: 10/12/16 00:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	F1	1.0	0.82	ug/L			10/14/16 16:48	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/14/16 16:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/14/16 16:48	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/14/16 16:48	1
1,1-Dichloroethane	**3.9**		1.0	0.38	ug/L			10/14/16 16:48	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/14/16 16:48	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/14/16 16:48	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/14/16 16:48	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/14/16 16:48	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/14/16 16:48	1
1,2-Dichloroethane	ND	F1	1.0	0.21	ug/L			10/14/16 16:48	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/14/16 16:48	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/14/16 16:48	1

Client Sample ID: MW-2

Lab Sample ID: 480-107471-14

Date Collected: 10/10/16 16:50

Matrix: Water

Date Received: 10/12/16 00:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/14/16 16:48	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/14/16 16:48	1
2-Hexanone	ND		5.0	1.2	ug/L			10/14/16 16:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/14/16 16:48	1
Acetone	ND		10	3.0	ug/L			10/14/16 16:48	1
Benzene	ND		1.0	0.41	ug/L			10/14/16 16:48	1
Bromodichloromethane	ND	F1	1.0	0.39	ug/L			10/14/16 16:48	1
Bromoform	ND		1.0	0.26	ug/L			10/14/16 16:48	1
Bromomethane	ND	F1	1.0	0.69	ug/L			10/14/16 16:48	1
Carbon disulfide	ND	F1	1.0	0.19	ug/L			10/14/16 16:48	1
Carbon tetrachloride	ND	F1	1.0	0.27	ug/L			10/14/16 16:48	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/14/16 16:48	1
Chloroethane	ND	F1	1.0	0.32	ug/L			10/14/16 16:48	1
Chloroform	ND	F1	1.0	0.34	ug/L			10/14/16 16:48	1
Chloromethane	ND		1.0	0.35	ug/L			10/14/16 16:48	1
cis-1,2-Dichloroethene	**6.4**		1.0	0.81	ug/L			10/14/16 16:48	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/14/16 16:48	1
Cyclohexane	ND		1.0	0.18	ug/L			10/14/16 16:48	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/14/16 16:48	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/14/16 16:48	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/14/16 16:48	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/14/16 16:48	1
Methyl acetate	ND		2.5	1.3	ug/L			10/14/16 16:48	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/14/16 16:48	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/14/16 16:48	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/14/16 16:48	1
Styrene	ND		1.0	0.73	ug/L			10/14/16 16:48	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/14/16 16:48	1
Toluene	ND		1.0	0.51	ug/L			10/14/16 16:48	1
trans-1,2-Dichloroethene	**1.5**		1.0	0.90	ug/L			10/14/16 16:48	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/14/16 16:48	1
Trichloroethene	ND		1.0	0.46	ug/L			10/14/16 16:48	1
Trichlorofluoromethane	ND	F1	1.0	0.88	ug/L			10/14/16 16:48	1
Vinyl chloride	**12**		1.0	0.90	ug/L			10/14/16 16:48	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/14/16 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*		*10/14/16 16:48*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*10/14/16 16:48*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/14/16 16:48*	*1*

Client Sample ID: MW-4

Lab Sample ID: 480-107471-15

Date Collected: 10/10/16 16:00

Matrix: Water

Date Received: 10/12/16 00:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/14/16 17:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/14/16 17:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/14/16 17:15	1

Client Sample ID: MW-4

Date Collected: 10/10/16 16:00
Date Received: 10/12/16 00:45

Lab Sample ID: 480-107471-15

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/14/16 17:15	1
1,1-Dichloroethane	**0.88**	**J**	1.0	0.38	ug/L			10/14/16 17:15	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/14/16 17:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/14/16 17:15	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/14/16 17:15	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/14/16 17:15	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/14/16 17:15	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/14/16 17:15	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/14/16 17:15	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/14/16 17:15	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/14/16 17:15	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/14/16 17:15	1
2-Hexanone	ND		5.0	1.2	ug/L			10/14/16 17:15	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/14/16 17:15	1
Acetone	ND		10	3.0	ug/L			10/14/16 17:15	1
Benzene	ND		1.0	0.41	ug/L			10/14/16 17:15	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/14/16 17:15	1
Bromoform	ND		1.0	0.26	ug/L			10/14/16 17:15	1
Bromomethane	ND		1.0	0.69	ug/L			10/14/16 17:15	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/14/16 17:15	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/14/16 17:15	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/14/16 17:15	1
Chloroethane	ND		1.0	0.32	ug/L			10/14/16 17:15	1
Chloroform	ND		1.0	0.34	ug/L			10/14/16 17:15	1
Chloromethane	ND		1.0	0.35	ug/L			10/14/16 17:15	1
cis-1,2-Dichloroethene	**5.0**		1.0	0.81	ug/L			10/14/16 17:15	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/14/16 17:15	1
Cyclohexane	ND		1.0	0.18	ug/L			10/14/16 17:15	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/14/16 17:15	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/14/16 17:15	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/14/16 17:15	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/14/16 17:15	1
Methyl acetate	ND		2.5	1.3	ug/L			10/14/16 17:15	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/14/16 17:15	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/14/16 17:15	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/14/16 17:15	1
Styrene	ND		1.0	0.73	ug/L			10/14/16 17:15	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/14/16 17:15	1
Toluene	ND		1.0	0.51	ug/L			10/14/16 17:15	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/14/16 17:15	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/14/16 17:15	1
Trichloroethene	ND		1.0	0.46	ug/L			10/14/16 17:15	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/14/16 17:15	1
Vinyl chloride	**3.1**		1.0	0.90	ug/L			10/14/16 17:15	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/14/16 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*10/14/16 17:15*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*10/14/16 17:15*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/14/16 17:15*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation - Quarterly

TestAmerica Job ID: 480-107471-1

Client Sample ID: MW-10

Date Collected: 10/11/16 08:50
Date Received: 10/12/16 00:45

Lab Sample ID: 480-107471-16

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/16/16 00:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/16/16 00:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/16/16 00:03	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/16/16 00:03	1
1,1-Dichloroethane	**3.0**		1.0	0.38	ug/L			10/16/16 00:03	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/16/16 00:03	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/16/16 00:03	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/16/16 00:03	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/16/16 00:03	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/16/16 00:03	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/16/16 00:03	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/16/16 00:03	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/16/16 00:03	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/16/16 00:03	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/16/16 00:03	1
2-Hexanone	ND		5.0	1.2	ug/L			10/16/16 00:03	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/16/16 00:03	1
Acetone	ND		10	3.0	ug/L			10/16/16 00:03	1
Benzene	ND		1.0	0.41	ug/L			10/16/16 00:03	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/16/16 00:03	1
Bromoform	ND		1.0	0.26	ug/L			10/16/16 00:03	1
Bromomethane	ND		1.0	0.69	ug/L			10/16/16 00:03	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/16/16 00:03	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/16/16 00:03	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/16/16 00:03	1
Chloroethane	ND		1.0	0.32	ug/L			10/16/16 00:03	1
Chloroform	ND		1.0	0.34	ug/L			10/16/16 00:03	1
Chloromethane	ND		1.0	0.35	ug/L			10/16/16 00:03	1
cis-1,2-Dichloroethene	**31**		1.0	0.81	ug/L			10/16/16 00:03	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/16/16 00:03	1
Cyclohexane	ND		1.0	0.18	ug/L			10/16/16 00:03	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/16/16 00:03	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/16/16 00:03	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/16/16 00:03	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/16/16 00:03	1
Methyl acetate	ND		2.5	1.3	ug/L			10/16/16 00:03	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/16/16 00:03	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/16/16 00:03	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/16/16 00:03	1
Styrene	ND		1.0	0.73	ug/L			10/16/16 00:03	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/16/16 00:03	1
Toluene	ND		1.0	0.51	ug/L			10/16/16 00:03	1
trans-1,2-Dichloroethene	**2.8**		1.0	0.90	ug/L			10/16/16 00:03	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/16/16 00:03	1
Trichloroethene	**0.87**	**J**	1.0	0.46	ug/L			10/16/16 00:03	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/16/16 00:03	1
Vinyl chloride	**23**		1.0	0.90	ug/L			10/16/16 00:03	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/16/16 00:03	1

Client Sample ID: MW-10

Lab Sample ID: 480-107471-16

Date Collected: 10/11/16 08:50
Matrix: Water
Date Received: 10/12/16 00:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		77 - 120		10/16/16 00:03	1
4-Bromofluorobenzene (Surr)	99		73 - 120		10/16/16 00:03	1
Toluene-d8 (Surr)	101		80 - 120		10/16/16 00:03	1

Client Sample ID: MW-1-S/D

Lab Sample ID: 480-107471-17

Date Collected: 10/10/16 16:50
Matrix: Water
Date Received: 10/12/16 00:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/14/16 17:42	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/14/16 17:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/14/16 17:42	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/14/16 17:42	1
1,1-Dichloroethane	**3.5**		1.0	0.38	ug/L			10/14/16 17:42	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/14/16 17:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/14/16 17:42	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/14/16 17:42	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/14/16 17:42	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/14/16 17:42	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/14/16 17:42	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/14/16 17:42	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/14/16 17:42	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/14/16 17:42	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/14/16 17:42	1
2-Hexanone	ND		5.0	1.2	ug/L			10/14/16 17:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/14/16 17:42	1
Acetone	ND		10	3.0	ug/L			10/14/16 17:42	1
Benzene	ND		1.0	0.41	ug/L			10/14/16 17:42	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/14/16 17:42	1
Bromoform	ND		1.0	0.26	ug/L			10/14/16 17:42	1
Bromomethane	ND		1.0	0.69	ug/L			10/14/16 17:42	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/14/16 17:42	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/14/16 17:42	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/14/16 17:42	1
Chloroethane	ND		1.0	0.32	ug/L			10/14/16 17:42	1
Chloroform	ND		1.0	0.34	ug/L			10/14/16 17:42	1
Chloromethane	ND		1.0	0.35	ug/L			10/14/16 17:42	1
cis-1,2-Dichloroethene	**25**		1.0	0.81	ug/L			10/14/16 17:42	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/14/16 17:42	1
Cyclohexane	ND		1.0	0.18	ug/L			10/14/16 17:42	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/14/16 17:42	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/14/16 17:42	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/14/16 17:42	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/14/16 17:42	1
Methyl acetate	ND		2.5	1.3	ug/L			10/14/16 17:42	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/14/16 17:42	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/14/16 17:42	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/14/16 17:42	1
Styrene	ND		1.0	0.73	ug/L			10/14/16 17:42	1

Client Sample ID: MW-1-S/D

Lab Sample ID: 480-107471-17

Date Collected: 10/10/16 16:50

Matrix: Water

Date Received: 10/12/16 00:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**33**		1.0	0.36	ug/L			10/14/16 17:42	1
Toluene	ND		1.0	0.51	ug/L			10/14/16 17:42	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/14/16 17:42	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/14/16 17:42	1
Trichloroethene	**14**		1.0	0.46	ug/L			10/14/16 17:42	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/14/16 17:42	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/14/16 17:42	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/14/16 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*10/14/16 17:42*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*10/14/16 17:42*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/14/16 17:42*	*1*

Action Limit Summary

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation - Quarterly

TestAmerica Job ID: 480-107471-1

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-107471-1

480 - MCL (Primary)

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
1,1,1-Trichloroethane	ND		ug/L	200.00	1.0	8260C	Total/NA
1,1,2-Trichloroethane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,1-Dichloroethene	ND		ug/L	7.0000	1.0	8260C	Total/NA
1,2,4-Trichlorobenzene	ND		ug/L	70.000	1.0	8260C	Total/NA
1,2-Dibromo-3-Chloropropane	ND		ug/L	**0.20000**	**1.0**	8260C	Total/NA
1,2-Dibromoethane	ND		ug/L	**0.050000**	**1.0**	8260C	Total/NA
1,2-Dichlorobenzene	ND		ug/L	600.00	1.0	8260C	Total/NA
1,2-Dichloroethane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,2-Dichloropropane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,4-Dichlorobenzene	ND		ug/L	75.000	1.0	8260C	Total/NA
Benzene	ND		ug/L	5.0000	1.0	8260C	Total/NA
Carbon tetrachloride	ND		ug/L	5.0000	1.0	8260C	Total/NA
Chlorobenzene	ND		ug/L	100.00	1.0	8260C	Total/NA
cis-1,2-Dichloroethene	ND		ug/L	70.000	1.0	8260C	Total/NA
Ethylbenzene	ND		ug/L	700.00	1.0	8260C	Total/NA
Methylene Chloride	ND		ug/L	5.0000	1.0	8260C	Total/NA
Styrene	ND		ug/L	100.00	1.0	8260C	Total/NA
Tetrachloroethene	ND		ug/L	5.0000	1.0	8260C	Total/NA
Toluene	ND		ug/L	1000.0	1.0	8260C	Total/NA
trans-1,2-Dichloroethene	ND		ug/L	100.00	1.0	8260C	Total/NA
Trichloroethene	ND		ug/L	5.0000	1.0	8260C	Total/NA
Vinyl chloride	ND		ug/L	2.0000	1.0	8260C	Total/NA
Xylenes, Total	ND		ug/L	10000	2.0	8260C	Total/NA

Client Sample ID: MW-3 — Lab Sample ID: 480-107471-2

480 - MCL (Primary)

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
1,1,1-Trichloroethane	ND		ug/L	200.00	1.0	8260C	Total/NA
1,1,2-Trichloroethane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,1-Dichloroethene	ND		ug/L	7.0000	1.0	8260C	Total/NA
1,2,4-Trichlorobenzene	ND		ug/L	70.000	1.0	8260C	Total/NA
1,2-Dibromo-3-Chloropropane	ND		ug/L	**0.20000**	**1.0**	8260C	Total/NA
1,2-Dibromoethane	ND		ug/L	**0.050000**	**1.0**	8260C	Total/NA
1,2-Dichlorobenzene	ND		ug/L	600.00	1.0	8260C	Total/NA
1,2-Dichloroethane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,2-Dichloropropane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,4-Dichlorobenzene	ND		ug/L	75.000	1.0	8260C	Total/NA
Benzene	ND		ug/L	5.0000	1.0	8260C	Total/NA
Carbon tetrachloride	ND		ug/L	5.0000	1.0	8260C	Total/NA
Chlorobenzene	ND		ug/L	100.00	1.0	8260C	Total/NA
cis-1,2-Dichloroethene	22		ug/L	70.000	1.0	8260C	Total/NA
Ethylbenzene	ND		ug/L	700.00	1.0	8260C	Total/NA
Methylene Chloride	ND		ug/L	5.0000	1.0	8260C	Total/NA
Styrene	ND		ug/L	100.00	1.0	8260C	Total/NA
Tetrachloroethene	3.3		ug/L	5.0000	1.0	8260C	Total/NA
Toluene	ND		ug/L	1000.0	1.0	8260C	Total/NA
trans-1,2-Dichloroethene	ND		ug/L	100.00	1.0	8260C	Total/NA
Trichloroethene	**6.4**		ug/L	**5.0000**	1.0	8260C	Total/NA

Client Sample ID: MW-3 (Continued) — Lab Sample ID: 480-107471-2

480 - MCL (Primary)

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Vinyl chloride	**2.0**		ug/L	**2.0000**	1.0	8260C	Total/NA
Xylenes, Total	ND		ug/L	10000	2.0	8260C	Total/NA

Client Sample ID: MW-1 — Lab Sample ID: 480-107471-3

480 - MCL (Primary)

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
1,1,1-Trichloroethane	ND		ug/L	200.00	1.0	8260C	Total/NA
1,1,2-Trichloroethane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,1-Dichloroethene	ND		ug/L	7.0000	1.0	8260C	Total/NA
1,2,4-Trichlorobenzene	ND		ug/L	70.000	1.0	8260C	Total/NA
1,2-Dibromo-3-Chloropropane	ND		ug/L	**0.20000**	**1.0**	8260C	Total/NA
1,2-Dibromoethane	ND		ug/L	**0.050000**	**1.0**	8260C	Total/NA
1,2-Dichlorobenzene	ND		ug/L	600.00	1.0	8260C	Total/NA
1,2-Dichloroethane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,2-Dichloropropane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,4-Dichlorobenzene	ND		ug/L	75.000	1.0	8260C	Total/NA
Benzene	ND		ug/L	5.0000	1.0	8260C	Total/NA
Carbon tetrachloride	ND		ug/L	5.0000	1.0	8260C	Total/NA
Chlorobenzene	ND		ug/L	100.00	1.0	8260C	Total/NA
cis-1,2-Dichloroethene	23		ug/L	70.000	1.0	8260C	Total/NA
Ethylbenzene	ND		ug/L	700.00	1.0	8260C	Total/NA
Methylene Chloride	ND		ug/L	5.0000	1.0	8260C	Total/NA
Styrene	ND		ug/L	100.00	1.0	8260C	Total/NA
Tetrachloroethene	**29**		ug/L	**5.0000**	1.0	8260C	Total/NA
Toluene	ND		ug/L	1000.0	1.0	8260C	Total/NA
trans-1,2-Dichloroethene	ND		ug/L	100.00	1.0	8260C	Total/NA
Trichloroethene	**12**		ug/L	**5.0000**	1.0	8260C	Total/NA
Vinyl chloride	ND		ug/L	2.0000	1.0	8260C	Total/NA
Xylenes, Total	ND		ug/L	10000	2.0	8260C	Total/NA

Client Sample ID: MW-18 — Lab Sample ID: 480-107471-4

480 - MCL (Primary)

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
1,1,1-Trichloroethane	ND		ug/L	200.00	20	8260C	Total/NA
1,1,2-Trichloroethane	ND		ug/L	5.0000	20	8260C	Total/NA
1,1-Dichloroethene	ND		ug/L	7.0000	20	8260C	Total/NA
1,2,4-Trichlorobenzene	ND		ug/L	70.000	20	8260C	Total/NA
1,2-Dibromo-3-Chloropropane	ND		ug/L	**0.20000**	**20**	8260C	Total/NA
1,2-Dibromoethane	ND		ug/L	**0.050000**	**20**	8260C	Total/NA
1,2-Dichlorobenzene	ND		ug/L	600.00	20	8260C	Total/NA
1,2-Dichloroethane	ND		ug/L	5.0000	20	8260C	Total/NA
1,2-Dichloropropane	ND		ug/L	**5.0000**	**20**	8260C	Total/NA
1,4-Dichlorobenzene	ND		ug/L	75.000	20	8260C	Total/NA
Benzene	ND		ug/L	**5.0000**	**20**	8260C	Total/NA
Carbon tetrachloride	ND		ug/L	**5.0000**	**20**	8260C	Total/NA
Chlorobenzene	ND		ug/L	100.00	20	8260C	Total/NA

Client Sample ID: MW-18 (Continued) — Lab Sample ID: 480-107471-4

480 - MCL (Primary)

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
cis-1,2-Dichloroethene	**780**		ug/L	**70.000**	20	8260C	Total/NA
Ethylbenzene	ND		ug/L	700.00	20	8260C	Total/NA
Methylene Chloride	ND		ug/L	**5.0000**	**20**	8260C	Total/NA
Styrene	ND		ug/L	100.00	20	8260C	Total/NA
Tetrachloroethene	**85**		ug/L	**5.0000**	20	8260C	Total/NA
Toluene	ND		ug/L	1000.0	20	8260C	Total/NA
trans-1,2-Dichloroethene	ND		ug/L	100.00	20	8260C	Total/NA
Trichloroethene	**120**		ug/L	**5.0000**	20	8260C	Total/NA
Vinyl chloride	ND		ug/L	**2.0000**	**20**	8260C	Total/NA
Xylenes, Total	ND		ug/L	10000	40	8260C	Total/NA

Client Sample ID: MW-20 — Lab Sample ID: 480-107471-5

480 - MCL (Primary)

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
1,1,1-Trichloroethane	ND		ug/L	200.00	5.0	8260C	Total/NA
1,1,2-Trichloroethane	ND		ug/L	5.0000	5.0	8260C	Total/NA
1,1-Dichloroethene	ND		ug/L	7.0000	5.0	8260C	Total/NA
1,2,4-Trichlorobenzene	ND		ug/L	70.000	5.0	8260C	Total/NA
1,2-Dibromo-3-Chloropropane	ND		ug/L	**0.20000**	**5.0**	8260C	Total/NA
1,2-Dibromoethane	ND		ug/L	**0.050000**	**5.0**	8260C	Total/NA
1,2-Dichlorobenzene	ND		ug/L	600.00	5.0	8260C	Total/NA
1,2-Dichloroethane	ND		ug/L	5.0000	5.0	8260C	Total/NA
1,2-Dichloropropane	ND		ug/L	5.0000	5.0	8260C	Total/NA
1,4-Dichlorobenzene	ND		ug/L	75.000	5.0	8260C	Total/NA
Benzene	ND		ug/L	5.0000	5.0	8260C	Total/NA
Carbon tetrachloride	ND		ug/L	5.0000	5.0	8260C	Total/NA
Chlorobenzene	ND		ug/L	100.00	5.0	8260C	Total/NA
cis-1,2-Dichloroethene	ND		ug/L	70.000	5.0	8260C	Total/NA
Ethylbenzene	ND		ug/L	700.00	5.0	8260C	Total/NA
Methylene Chloride	ND		ug/L	5.0000	5.0	8260C	Total/NA
Styrene	ND		ug/L	100.00	5.0	8260C	Total/NA
Tetrachloroethene	ND		ug/L	5.0000	5.0	8260C	Total/NA
Toluene	ND		ug/L	1000.0	5.0	8260C	Total/NA
trans-1,2-Dichloroethene	ND		ug/L	100.00	5.0	8260C	Total/NA
Trichloroethene	ND		ug/L	5.0000	5.0	8260C	Total/NA
Vinyl chloride	ND		ug/L	**2.0000**	**5.0**	8260C	Total/NA
Xylenes, Total	ND		ug/L	10000	10	8260C	Total/NA

Client Sample ID: MW-21 — Lab Sample ID: 480-107471-6

480 - MCL (Primary)

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
1,1,1-Trichloroethane	ND		ug/L	200.00	1.0	8260C	Total/NA
1,1,2-Trichloroethane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,1-Dichloroethene	ND		ug/L	7.0000	1.0	8260C	Total/NA
1,2,4-Trichlorobenzene	ND		ug/L	70.000	1.0	8260C	Total/NA
1,2-Dibromo-3-Chloropropane	ND		ug/L	**0.20000**	**1.0**	8260C	Total/NA

Action Limit Summary

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation - Quarterly

TestAmerica Job ID: 480-107471-1

Client Sample ID: MW-21 (Continued) — Lab Sample ID: 480-107471-6

480 - MCL (Primary)

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
1,2-Dibromoethane	ND		ug/L	**0.050000**	**1.0**	8260C	Total/NA
1,2-Dichlorobenzene	ND		ug/L	600.00	1.0	8260C	Total/NA
1,2-Dichloroethane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,2-Dichloropropane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,4-Dichlorobenzene	ND		ug/L	75.000	1.0	8260C	Total/NA
Benzene	ND		ug/L	5.0000	1.0	8260C	Total/NA
Carbon tetrachloride	ND		ug/L	5.0000	1.0	8260C	Total/NA
Chlorobenzene	ND		ug/L	100.00	1.0	8260C	Total/NA
cis-1,2-Dichloroethene	ND		ug/L	70.000	1.0	8260C	Total/NA
Ethylbenzene	ND		ug/L	700.00	1.0	8260C	Total/NA
Methylene Chloride	ND		ug/L	5.0000	1.0	8260C	Total/NA
Styrene	ND		ug/L	100.00	1.0	8260C	Total/NA
Tetrachloroethene	ND		ug/L	5.0000	1.0	8260C	Total/NA
Toluene	ND		ug/L	1000.0	1.0	8260C	Total/NA
trans-1,2-Dichloroethene	ND		ug/L	100.00	1.0	8260C	Total/NA
Trichloroethene	ND		ug/L	5.0000	1.0	8260C	Total/NA
Vinyl chloride	**3.4**		ug/L	**2.0000**	1.0	8260C	Total/NA
Xylenes, Total	ND		ug/L	10000	2.0	8260C	Total/NA

Client Sample ID: PZ-5 — Lab Sample ID: 480-107471-7

480 - MCL (Primary)

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
1,1,1-Trichloroethane	ND		ug/L	200.00	1.0	8260C	Total/NA
1,1,2-Trichloroethane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,1-Dichloroethene	ND		ug/L	7.0000	1.0	8260C	Total/NA
1,2,4-Trichlorobenzene	ND		ug/L	70.000	1.0	8260C	Total/NA
1,2-Dibromo-3-Chloropropane	ND		ug/L	**0.20000**	**1.0**	8260C	Total/NA
1,2-Dibromoethane	ND		ug/L	**0.050000**	**1.0**	8260C	Total/NA
1,2-Dichlorobenzene	ND		ug/L	600.00	1.0	8260C	Total/NA
1,2-Dichloroethane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,2-Dichloropropane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,4-Dichlorobenzene	ND		ug/L	75.000	1.0	8260C	Total/NA
Benzene	ND		ug/L	5.0000	1.0	8260C	Total/NA
Carbon tetrachloride	ND		ug/L	5.0000	1.0	8260C	Total/NA
Chlorobenzene	ND		ug/L	100.00	1.0	8260C	Total/NA
cis-1,2-Dichloroethene	35		ug/L	70.000	1.0	8260C	Total/NA
Ethylbenzene	ND		ug/L	700.00	1.0	8260C	Total/NA
Methylene Chloride	ND		ug/L	5.0000	1.0	8260C	Total/NA
Styrene	ND		ug/L	100.00	1.0	8260C	Total/NA
Tetrachloroethene	**11**		ug/L	**5.0000**	1.0	8260C	Total/NA
Toluene	ND		ug/L	1000.0	1.0	8260C	Total/NA
trans-1,2-Dichloroethene	ND		ug/L	100.00	1.0	8260C	Total/NA
Trichloroethene	**19**		ug/L	**5.0000**	1.0	8260C	Total/NA
Vinyl chloride	1.1		ug/L	2.0000	1.0	8260C	Total/NA
Xylenes, Total	ND		ug/L	10000	2.0	8260C	Total/NA

Action Limit Summary

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation - Quarterly

TestAmerica Job ID: 480-107471-1

Client Sample ID: PZ-6 — Lab Sample ID: 480-107471-8

480 - MCL (Primary)

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
1,1,1-Trichloroethane	ND		ug/L	200.00	1.0	8260C	Total/NA
1,1,2-Trichloroethane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,1-Dichloroethene	ND		ug/L	7.0000	1.0	8260C	Total/NA
1,2,4-Trichlorobenzene	ND		ug/L	70.000	1.0	8260C	Total/NA
1,2-Dibromo-3-Chloropropane	ND		ug/L	**0.20000**	**1.0**	8260C	Total/NA
1,2-Dibromoethane	ND		ug/L	**0.050000**	**1.0**	8260C	Total/NA
1,2-Dichlorobenzene	ND		ug/L	600.00	1.0	8260C	Total/NA
1,2-Dichloroethane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,2-Dichloropropane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,4-Dichlorobenzene	ND		ug/L	75.000	1.0	8260C	Total/NA
Benzene	ND		ug/L	5.0000	1.0	8260C	Total/NA
Carbon tetrachloride	ND		ug/L	5.0000	1.0	8260C	Total/NA
Chlorobenzene	ND		ug/L	100.00	1.0	8260C	Total/NA
cis-1,2-Dichloroethene	22		ug/L	70.000	1.0	8260C	Total/NA
Ethylbenzene	ND		ug/L	700.00	1.0	8260C	Total/NA
Methylene Chloride	ND		ug/L	5.0000	1.0	8260C	Total/NA
Styrene	ND		ug/L	100.00	1.0	8260C	Total/NA
Tetrachloroethene	**7.0**		ug/L	**5.0000**	1.0	8260C	Total/NA
Toluene	ND		ug/L	1000.0	1.0	8260C	Total/NA
trans-1,2-Dichloroethene	ND		ug/L	100.00	1.0	8260C	Total/NA
Trichloroethene	**19**		ug/L	**5.0000**	1.0	8260C	Total/NA
Vinyl chloride	ND		ug/L	2.0000	1.0	8260C	Total/NA
Xylenes, Total	ND		ug/L	10000	2.0	8260C	Total/NA

Client Sample ID: PZ-11R — Lab Sample ID: 480-107471-9

480 - MCL (Primary)

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
1,1,1-Trichloroethane	ND		ug/L	200.00	1.0	8260C	Total/NA
1,1,2-Trichloroethane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,1-Dichloroethene	ND		ug/L	7.0000	1.0	8260C	Total/NA
1,2,4-Trichlorobenzene	ND		ug/L	70.000	1.0	8260C	Total/NA
1,2-Dibromo-3-Chloropropane	ND		ug/L	**0.20000**	**1.0**	8260C	Total/NA
1,2-Dibromoethane	ND		ug/L	**0.050000**	**1.0**	8260C	Total/NA
1,2-Dichlorobenzene	ND		ug/L	600.00	1.0	8260C	Total/NA
1,2-Dichloroethane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,2-Dichloropropane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,4-Dichlorobenzene	ND		ug/L	75.000	1.0	8260C	Total/NA
Benzene	ND		ug/L	5.0000	1.0	8260C	Total/NA
Carbon tetrachloride	ND		ug/L	5.0000	1.0	8260C	Total/NA
Chlorobenzene	ND		ug/L	100.00	1.0	8260C	Total/NA
cis-1,2-Dichloroethene	1.7		ug/L	70.000	1.0	8260C	Total/NA
Ethylbenzene	ND		ug/L	700.00	1.0	8260C	Total/NA
Methylene Chloride	ND		ug/L	5.0000	1.0	8260C	Total/NA
Styrene	ND		ug/L	100.00	1.0	8260C	Total/NA
Tetrachloroethene	4.2		ug/L	5.0000	1.0	8260C	Total/NA
Toluene	ND		ug/L	1000.0	1.0	8260C	Total/NA
trans-1,2-Dichloroethene	ND		ug/L	100.00	1.0	8260C	Total/NA
Trichloroethene	**7.2**		ug/L	**5.0000**	1.0	8260C	Total/NA

Client Sample ID: PZ-11R (Continued) — Lab Sample ID: 480-107471-9

480 - MCL (Primary)

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Vinyl chloride	ND		ug/L	2.0000	1.0	8260C	Total/NA
Xylenes, Total	ND		ug/L	10000	2.0	8260C	Total/NA

Client Sample ID: PZ-13R — Lab Sample ID: 480-107471-10

480 - MCL (Primary)

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
1,1,1-Trichloroethane	ND		ug/L	200.00	1.0	8260C	Total/NA
1,1,2-Trichloroethane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,1-Dichloroethene	ND		ug/L	7.0000	1.0	8260C	Total/NA
1,2,4-Trichlorobenzene	ND		ug/L	70.000	1.0	8260C	Total/NA
1,2-Dibromo-3-Chloropropane	ND		ug/L	**0.20000**	**1.0**	8260C	Total/NA
1,2-Dibromoethane	ND		ug/L	**0.050000**	**1.0**	8260C	Total/NA
1,2-Dichlorobenzene	ND		ug/L	600.00	1.0	8260C	Total/NA
1,2-Dichloroethane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,2-Dichloropropane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,4-Dichlorobenzene	ND		ug/L	75.000	1.0	8260C	Total/NA
Benzene	ND		ug/L	5.0000	1.0	8260C	Total/NA
Carbon tetrachloride	ND		ug/L	5.0000	1.0	8260C	Total/NA
Chlorobenzene	ND		ug/L	100.00	1.0	8260C	Total/NA
cis-1,2-Dichloroethene	2.2		ug/L	70.000	1.0	8260C	Total/NA
Ethylbenzene	ND		ug/L	700.00	1.0	8260C	Total/NA
Methylene Chloride	ND		ug/L	5.0000	1.0	8260C	Total/NA
Styrene	ND		ug/L	100.00	1.0	8260C	Total/NA
Tetrachloroethene	1.3		ug/L	5.0000	1.0	8260C	Total/NA
Toluene	ND		ug/L	1000.0	1.0	8260C	Total/NA
trans-1,2-Dichloroethene	ND		ug/L	100.00	1.0	8260C	Total/NA
Trichloroethene	**5.1**		ug/L	**5.0000**	1.0	8260C	Total/NA
Vinyl chloride	ND		ug/L	2.0000	1.0	8260C	Total/NA
Xylenes, Total	ND		ug/L	10000	2.0	8260C	Total/NA

Client Sample ID: A2-PZ-1 — Lab Sample ID: 480-107471-11

480 - MCL (Primary)

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
1,1,1-Trichloroethane	ND		ug/L	200.00	1.0	8260C	Total/NA
1,1,2-Trichloroethane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,1-Dichloroethene	**13**		ug/L	**7.0000**	1.0	8260C	Total/NA
1,2,4-Trichlorobenzene	ND		ug/L	70.000	1.0	8260C	Total/NA
1,2-Dibromo-3-Chloropropane	ND		ug/L	**0.20000**	**1.0**	8260C	Total/NA
1,2-Dibromoethane	ND		ug/L	**0.050000**	**1.0**	8260C	Total/NA
1,2-Dichlorobenzene	ND		ug/L	600.00	1.0	8260C	Total/NA
1,2-Dichloroethane	0.96	J	ug/L	5.0000	1.0	8260C	Total/NA
1,2-Dichloropropane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,4-Dichlorobenzene	ND		ug/L	75.000	1.0	8260C	Total/NA
Benzene	ND		ug/L	5.0000	1.0	8260C	Total/NA
Carbon tetrachloride	ND		ug/L	5.0000	1.0	8260C	Total/NA
Chlorobenzene	ND		ug/L	100.00	1.0	8260C	Total/NA

Client Sample ID: A2-PZ-1 (Continued) — Lab Sample ID: 480-107471-11

480 - MCL (Primary)

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
cis-1,2-Dichloroethene	**1900**	**E**	ug/L	**70.000**	1.0	8260C	Total/NA
Ethylbenzene	ND		ug/L	700.00	1.0	8260C	Total/NA
Methylene Chloride	ND		ug/L	5.0000	1.0	8260C	Total/NA
Styrene	ND		ug/L	100.00	1.0	8260C	Total/NA
Tetrachloroethene	2.2		ug/L	5.0000	1.0	8260C	Total/NA
Toluene	2.7		ug/L	1000.0	1.0	8260C	Total/NA
trans-1,2-Dichloroethene	9.0		ug/L	100.00	1.0	8260C	Total/NA
Trichloroethene	**390**	**E**	ug/L	**5.0000**	1.0	8260C	Total/NA
Vinyl chloride	**520**	**E**	ug/L	**2.0000**	1.0	8260C	Total/NA
Xylenes, Total	ND		ug/L	10000	2.0	8260C	Total/NA
1,1,1-Trichloroethane - DL	ND		ug/L	200.00	200	8260C	Total/NA
1,1,2-Trichloroethane - DL	ND		ug/L	**5.0000**	**200**	8260C	Total/NA
1,1-Dichloroethene - DL	ND		ug/L	**7.0000**	**200**	8260C	Total/NA
1,2,4-Trichlorobenzene - DL	ND		ug/L	**70.000**	**200**	8260C	Total/NA
1,2-Dibromo-3-Chloropropane - DL	ND		ug/L	**0.20000**	**200**	8260C	Total/NA
1,2-Dibromoethane - DL	ND		ug/L	**0.050000**	**200**	8260C	Total/NA
1,2-Dichlorobenzene - DL	ND		ug/L	600.00	200	8260C	Total/NA
1,2-Dichloroethane - DL	ND		ug/L	**5.0000**	**200**	8260C	Total/NA
1,2-Dichloropropane - DL	ND		ug/L	**5.0000**	**200**	8260C	Total/NA
1,4-Dichlorobenzene - DL	ND		ug/L	**75.000**	**200**	8260C	Total/NA
Benzene - DL	ND		ug/L	**5.0000**	**200**	8260C	Total/NA
Carbon tetrachloride - DL	ND		ug/L	**5.0000**	**200**	8260C	Total/NA
Chlorobenzene - DL	ND		ug/L	**100.00**	**200**	8260C	Total/NA
cis-1,2-Dichloroethene - DL	**12000**	**F1**	ug/L	**70.000**	200	8260C	Total/NA
Ethylbenzene - DL	ND		ug/L	700.00	200	8260C	Total/NA
Methylene Chloride - DL	ND		ug/L	**5.0000**	**200**	8260C	Total/NA
Styrene - DL	ND		ug/L	**100.00**	**200**	8260C	Total/NA
Tetrachloroethene - DL	ND		ug/L	**5.0000**	**200**	8260C	Total/NA
Toluene - DL	ND		ug/L	1000.0	200	8260C	Total/NA
trans-1,2-Dichloroethene - DL	ND		ug/L	**100.00**	**200**	8260C	Total/NA
Trichloroethene - DL	**530**		ug/L	**5.0000**	200	8260C	Total/NA
Vinyl chloride - DL	**710**		ug/L	**2.0000**	200	8260C	Total/NA
Xylenes, Total - DL	ND		ug/L	10000	400	8260C	Total/NA

Client Sample ID: A2-PZ-2 — Lab Sample ID: 480-107471-12

480 - MCL (Primary)

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
1,1,1-Trichloroethane	ND		ug/L	200.00	8.0	8260C	Total/NA
1,1,2-Trichloroethane	ND		ug/L	5.0000	8.0	8260C	Total/NA
1,1-Dichloroethene	ND		ug/L	7.0000	8.0	8260C	Total/NA
1,2,4-Trichlorobenzene	ND		ug/L	70.000	8.0	8260C	Total/NA
1,2-Dibromo-3-Chloropropane	ND		ug/L	**0.20000**	**8.0**	8260C	Total/NA
1,2-Dibromoethane	ND		ug/L	**0.050000**	**8.0**	8260C	Total/NA
1,2-Dichlorobenzene	ND		ug/L	600.00	8.0	8260C	Total/NA
1,2-Dichloroethane	ND		ug/L	5.0000	8.0	8260C	Total/NA
1,2-Dichloropropane	ND		ug/L	**5.0000**	**8.0**	8260C	Total/NA
1,4-Dichlorobenzene	ND		ug/L	75.000	8.0	8260C	Total/NA
Benzene	ND		ug/L	5.0000	8.0	8260C	Total/NA

Client Sample ID: A2-PZ-2 (Continued) — Lab Sample ID: 480-107471-12

480 - MCL (Primary)

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Carbon tetrachloride	ND		ug/L	5.0000	8.0	8260C	Total/NA
Chlorobenzene	ND		ug/L	100.00	8.0	8260C	Total/NA
cis-1,2-Dichloroethene	**82**		ug/L	**70.000**	8.0	8260C	Total/NA
Ethylbenzene	ND		ug/L	700.00	8.0	8260C	Total/NA
Methylene Chloride	ND		ug/L	5.0000	8.0	8260C	Total/NA
Styrene	ND		ug/L	100.00	8.0	8260C	Total/NA
Tetrachloroethene	**400**	**F1**	ug/L	**5.0000**	8.0	8260C	Total/NA
Toluene	ND		ug/L	1000.0	8.0	8260C	Total/NA
trans-1,2-Dichloroethene	ND		ug/L	100.00	8.0	8260C	Total/NA
Trichloroethene	**230**		ug/L	**5.0000**	8.0	8260C	Total/NA
Vinyl chloride	ND		ug/L	**2.0000**	**8.0**	8260C	Total/NA
Xylenes, Total	ND		ug/L	10000	16	8260C	Total/NA

Client Sample ID: A1-PZ-2 — Lab Sample ID: 480-107471-13

480 - MCL (Primary)

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
1,1,1-Trichloroethane	ND		ug/L	200.00	1.0	8260C	Total/NA
1,1,2-Trichloroethane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,1-Dichloroethene	ND		ug/L	7.0000	1.0	8260C	Total/NA
1,2,4-Trichlorobenzene	ND		ug/L	70.000	1.0	8260C	Total/NA
1,2-Dibromo-3-Chloropropane	ND		ug/L	**0.20000**	**1.0**	8260C	Total/NA
1,2-Dibromoethane	ND		ug/L	**0.050000**	**1.0**	8260C	Total/NA
1,2-Dichlorobenzene	ND		ug/L	600.00	1.0	8260C	Total/NA
1,2-Dichloroethane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,2-Dichloropropane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,4-Dichlorobenzene	ND		ug/L	75.000	1.0	8260C	Total/NA
Benzene	ND		ug/L	5.0000	1.0	8260C	Total/NA
Carbon tetrachloride	ND		ug/L	5.0000	1.0	8260C	Total/NA
Chlorobenzene	ND		ug/L	100.00	1.0	8260C	Total/NA
cis-1,2-Dichloroethene	ND		ug/L	70.000	1.0	8260C	Total/NA
Ethylbenzene	ND		ug/L	700.00	1.0	8260C	Total/NA
Methylene Chloride	ND		ug/L	5.0000	1.0	8260C	Total/NA
Styrene	ND		ug/L	100.00	1.0	8260C	Total/NA
Tetrachloroethene	ND		ug/L	5.0000	1.0	8260C	Total/NA
Toluene	ND		ug/L	1000.0	1.0	8260C	Total/NA
trans-1,2-Dichloroethene	ND		ug/L	100.00	1.0	8260C	Total/NA
Trichloroethene	ND		ug/L	5.0000	1.0	8260C	Total/NA
Vinyl chloride	ND		ug/L	2.0000	1.0	8260C	Total/NA
Xylenes, Total	ND		ug/L	10000	2.0	8260C	Total/NA

Client Sample ID: MW-2 — Lab Sample ID: 480-107471-14

480 - MCL (Primary)

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
1,1,1-Trichloroethane	ND	F1	ug/L	200.00	1.0	8260C	Total/NA
1,1,2-Trichloroethane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,1-Dichloroethene	ND		ug/L	7.0000	1.0	8260C	Total/NA

Client Sample ID: MW-2 (Continued) — Lab Sample ID: 480-107471-14

480 - MCL (Primary)

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
1,2,4-Trichlorobenzene	ND		ug/L	70.000	1.0	8260C	Total/NA
1,2-Dibromo-3-Chloropropane	ND		ug/L	**0.20000**	**1.0**	8260C	Total/NA
1,2-Dibromoethane	ND		ug/L	**0.050000**	**1.0**	8260C	Total/NA
1,2-Dichlorobenzene	ND		ug/L	600.00	1.0	8260C	Total/NA
1,2-Dichloroethane	ND	F1	ug/L	5.0000	1.0	8260C	Total/NA
1,2-Dichloropropane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,4-Dichlorobenzene	ND		ug/L	75.000	1.0	8260C	Total/NA
Benzene	ND		ug/L	5.0000	1.0	8260C	Total/NA
Carbon tetrachloride	ND	F1	ug/L	5.0000	1.0	8260C	Total/NA
Chlorobenzene	ND		ug/L	100.00	1.0	8260C	Total/NA
cis-1,2-Dichloroethene	6.4		ug/L	70.000	1.0	8260C	Total/NA
Ethylbenzene	ND		ug/L	700.00	1.0	8260C	Total/NA
Methylene Chloride	ND		ug/L	5.0000	1.0	8260C	Total/NA
Styrene	ND		ug/L	100.00	1.0	8260C	Total/NA
Tetrachloroethene	ND		ug/L	5.0000	1.0	8260C	Total/NA
Toluene	ND		ug/L	1000.0	1.0	8260C	Total/NA
trans-1,2-Dichloroethene	1.5		ug/L	100.00	1.0	8260C	Total/NA
Trichloroethene	ND		ug/L	5.0000	1.0	8260C	Total/NA
Vinyl chloride	**12**		ug/L	**2.0000**	1.0	8260C	Total/NA
Xylenes, Total	ND		ug/L	10000	2.0	8260C	Total/NA

Client Sample ID: MW-4 — Lab Sample ID: 480-107471-15

480 - MCL (Primary)

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
1,1,1-Trichloroethane	ND		ug/L	200.00	1.0	8260C	Total/NA
1,1,2-Trichloroethane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,1-Dichloroethene	ND		ug/L	7.0000	1.0	8260C	Total/NA
1,2,4-Trichlorobenzene	ND		ug/L	70.000	1.0	8260C	Total/NA
1,2-Dibromo-3-Chloropropane	ND		ug/L	**0.20000**	**1.0**	8260C	Total/NA
1,2-Dibromoethane	ND		ug/L	**0.050000**	**1.0**	8260C	Total/NA
1,2-Dichlorobenzene	ND		ug/L	600.00	1.0	8260C	Total/NA
1,2-Dichloroethane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,2-Dichloropropane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,4-Dichlorobenzene	ND		ug/L	75.000	1.0	8260C	Total/NA
Benzene	ND		ug/L	5.0000	1.0	8260C	Total/NA
Carbon tetrachloride	ND		ug/L	5.0000	1.0	8260C	Total/NA
Chlorobenzene	ND		ug/L	100.00	1.0	8260C	Total/NA
cis-1,2-Dichloroethene	5.0		ug/L	70.000	1.0	8260C	Total/NA
Ethylbenzene	ND		ug/L	700.00	1.0	8260C	Total/NA
Methylene Chloride	ND		ug/L	5.0000	1.0	8260C	Total/NA
Styrene	ND		ug/L	100.00	1.0	8260C	Total/NA
Tetrachloroethene	ND		ug/L	5.0000	1.0	8260C	Total/NA
Toluene	ND		ug/L	1000.0	1.0	8260C	Total/NA
trans-1,2-Dichloroethene	ND		ug/L	100.00	1.0	8260C	Total/NA
Trichloroethene	ND		ug/L	5.0000	1.0	8260C	Total/NA
Vinyl chloride	**3.1**		ug/L	**2.0000**	1.0	8260C	Total/NA
Xylenes, Total	ND		ug/L	10000	2.0	8260C	Total/NA

Action Limit Summary

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation - Quarterly

TestAmerica Job ID: 480-107471-1

Client Sample ID: MW-10 — Lab Sample ID: 480-107471-16

480 - MCL (Primary)

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
1,1,1-Trichloroethane	ND		ug/L	200.00	1.0	8260C	Total/NA
1,1,2-Trichloroethane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,1-Dichloroethene	ND		ug/L	7.0000	1.0	8260C	Total/NA
1,2,4-Trichlorobenzene	ND		ug/L	70.000	1.0	8260C	Total/NA
1,2-Dibromo-3-Chloropropane	ND		ug/L	**0.20000**	**1.0**	8260C	Total/NA
1,2-Dibromoethane	ND		ug/L	**0.050000**	**1.0**	8260C	Total/NA
1,2-Dichlorobenzene	ND		ug/L	600.00	1.0	8260C	Total/NA
1,2-Dichloroethane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,2-Dichloropropane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,4-Dichlorobenzene	ND		ug/L	75.000	1.0	8260C	Total/NA
Benzene	ND		ug/L	5.0000	1.0	8260C	Total/NA
Carbon tetrachloride	ND		ug/L	5.0000	1.0	8260C	Total/NA
Chlorobenzene	ND		ug/L	100.00	1.0	8260C	Total/NA
cis-1,2-Dichloroethene	31		ug/L	70.000	1.0	8260C	Total/NA
Ethylbenzene	ND		ug/L	700.00	1.0	8260C	Total/NA
Methylene Chloride	ND		ug/L	5.0000	1.0	8260C	Total/NA
Styrene	ND		ug/L	100.00	1.0	8260C	Total/NA
Tetrachloroethene	ND		ug/L	5.0000	1.0	8260C	Total/NA
Toluene	ND		ug/L	1000.0	1.0	8260C	Total/NA
trans-1,2-Dichloroethene	2.8		ug/L	100.00	1.0	8260C	Total/NA
Trichloroethene	0.87	J	ug/L	5.0000	1.0	8260C	Total/NA
Vinyl chloride	**23**		ug/L	**2.0000**	1.0	8260C	Total/NA
Xylenes, Total	ND		ug/L	10000	2.0	8260C	Total/NA

Client Sample ID: MW-1-S/D — Lab Sample ID: 480-107471-17

480 - MCL (Primary)

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
1,1,1-Trichloroethane	ND		ug/L	200.00	1.0	8260C	Total/NA
1,1,2-Trichloroethane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,1-Dichloroethene	ND		ug/L	7.0000	1.0	8260C	Total/NA
1,2,4-Trichlorobenzene	ND		ug/L	70.000	1.0	8260C	Total/NA
1,2-Dibromo-3-Chloropropane	ND		ug/L	**0.20000**	**1.0**	8260C	Total/NA
1,2-Dibromoethane	ND		ug/L	**0.050000**	**1.0**	8260C	Total/NA
1,2-Dichlorobenzene	ND		ug/L	600.00	1.0	8260C	Total/NA
1,2-Dichloroethane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,2-Dichloropropane	ND		ug/L	5.0000	1.0	8260C	Total/NA
1,4-Dichlorobenzene	ND		ug/L	75.000	1.0	8260C	Total/NA
Benzene	ND		ug/L	5.0000	1.0	8260C	Total/NA
Carbon tetrachloride	ND		ug/L	5.0000	1.0	8260C	Total/NA
Chlorobenzene	ND		ug/L	100.00	1.0	8260C	Total/NA
cis-1,2-Dichloroethene	25		ug/L	70.000	1.0	8260C	Total/NA
Ethylbenzene	ND		ug/L	700.00	1.0	8260C	Total/NA
Methylene Chloride	ND		ug/L	5.0000	1.0	8260C	Total/NA
Styrene	ND		ug/L	100.00	1.0	8260C	Total/NA
Tetrachloroethene	**33**		ug/L	**5.0000**	1.0	8260C	Total/NA
Toluene	ND		ug/L	1000.0	1.0	8260C	Total/NA
trans-1,2-Dichloroethene	ND		ug/L	100.00	1.0	8260C	Total/NA
Trichloroethene	**14**		ug/L	**5.0000**	1.0	8260C	Total/NA

Action Limit Summary

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation - Quarterly

TestAmerica Job ID: 480-107471-1

Client Sample ID: MW-1-S/D (Continued)

Lab Sample ID: 480-107471-17

480 - MCL (Primary)

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Vinyl chloride	ND		ug/L	2.0000	1.0	8260C	Total/NA
Xylenes, Total	ND		ug/L	10000	2.0	8260C	Total/NA

Default Detection Limits

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation - Quarterly

TestAmerica Job ID: 480-107471-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	RL	MDL	Units	Method
1,1,1-Trichloroethane	1.0	0.82	ug/L	8260C
1,1,1-Trichloroethane	1.0	0.82	ug/L	8260C
1,1,2,2-Tetrachloroethane	1.0	0.21	ug/L	8260C
1,1,2,2-Tetrachloroethane	1.0	0.21	ug/L	8260C
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	0.31	ug/L	8260C
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	0.31	ug/L	8260C
1,1,2-Trichloroethane	1.0	0.23	ug/L	8260C
1,1,2-Trichloroethane	1.0	0.23	ug/L	8260C
1,1-Dichloroethane	1.0	0.38	ug/L	8260C
1,1-Dichloroethane	1.0	0.38	ug/L	8260C
1,1-Dichloroethene	1.0	0.29	ug/L	8260C
1,1-Dichloroethene	1.0	0.29	ug/L	8260C
1,2,4-Trichlorobenzene	1.0	0.41	ug/L	8260C
1,2,4-Trichlorobenzene	1.0	0.41	ug/L	8260C
1,2-Dibromo-3-Chloropropane	1.0	0.39	ug/L	8260C
1,2-Dibromo-3-Chloropropane	1.0	0.39	ug/L	8260C
1,2-Dibromoethane	1.0	0.73	ug/L	8260C
1,2-Dibromoethane	1.0	0.73	ug/L	8260C
1,2-Dichlorobenzene	1.0	0.79	ug/L	8260C
1,2-Dichlorobenzene	1.0	0.79	ug/L	8260C
1,2-Dichloroethane	1.0	0.21	ug/L	8260C
1,2-Dichloroethane	1.0	0.21	ug/L	8260C
1,2-Dichloropropane	1.0	0.72	ug/L	8260C
1,2-Dichloropropane	1.0	0.72	ug/L	8260C
1,3-Dichlorobenzene	1.0	0.78	ug/L	8260C
1,3-Dichlorobenzene	1.0	0.78	ug/L	8260C
1,4-Dichlorobenzene	1.0	0.84	ug/L	8260C
1,4-Dichlorobenzene	1.0	0.84	ug/L	8260C
2-Butanone (MEK)	10	1.3	ug/L	8260C
2-Butanone (MEK)	10	1.3	ug/L	8260C
2-Hexanone	5.0	1.2	ug/L	8260C
2-Hexanone	5.0	1.2	ug/L	8260C
4-Methyl-2-pentanone (MIBK)	5.0	2.1	ug/L	8260C
4-Methyl-2-pentanone (MIBK)	5.0	2.1	ug/L	8260C
Acetone	10	3.0	ug/L	8260C
Acetone	10	3.0	ug/L	8260C
Benzene	1.0	0.41	ug/L	8260C
Benzene	1.0	0.41	ug/L	8260C
Bromodichloromethane	1.0	0.39	ug/L	8260C
Bromodichloromethane	1.0	0.39	ug/L	8260C
Bromoform	1.0	0.26	ug/L	8260C
Bromoform	1.0	0.26	ug/L	8260C
Bromomethane	1.0	0.69	ug/L	8260C
Bromomethane	1.0	0.69	ug/L	8260C
Carbon disulfide	1.0	0.19	ug/L	8260C
Carbon disulfide	1.0	0.19	ug/L	8260C
Carbon tetrachloride	1.0	0.27	ug/L	8260C
Carbon tetrachloride	1.0	0.27	ug/L	8260C
Chlorobenzene	1.0	0.75	ug/L	8260C
Chlorobenzene	1.0	0.75	ug/L	8260C
Chloroethane	1.0	0.32	ug/L	8260C
Chloroethane	1.0	0.32	ug/L	8260C

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

Analyte	RL	MDL	Units	Method
Chloroform	1.0	0.34	ug/L	8260C
Chloroform	1.0	0.34	ug/L	8260C
Chloromethane	1.0	0.35	ug/L	8260C
Chloromethane	1.0	0.35	ug/L	8260C
cis-1,2-Dichloroethene	1.0	0.81	ug/L	8260C
cis-1,2-Dichloroethene	1.0	0.81	ug/L	8260C
cis-1,3-Dichloropropene	1.0	0.36	ug/L	8260C
cis-1,3-Dichloropropene	1.0	0.36	ug/L	8260C
Cyclohexane	1.0	0.18	ug/L	8260C
Cyclohexane	1.0	0.18	ug/L	8260C
Dibromochloromethane	1.0	0.32	ug/L	8260C
Dibromochloromethane	1.0	0.32	ug/L	8260C
Dichlorodifluoromethane	1.0	0.68	ug/L	8260C
Dichlorodifluoromethane	1.0	0.68	ug/L	8260C
Ethylbenzene	1.0	0.74	ug/L	8260C
Ethylbenzene	1.0	0.74	ug/L	8260C
Isopropylbenzene	1.0	0.79	ug/L	8260C
Isopropylbenzene	1.0	0.79	ug/L	8260C
Methyl acetate	2.5	1.3	ug/L	8260C
Methyl acetate	2.5	1.3	ug/L	8260C
Methyl tert-butyl ether	1.0	0.16	ug/L	8260C
Methyl tert-butyl ether	1.0	0.16	ug/L	8260C
Methylcyclohexane	1.0	0.16	ug/L	8260C
Methylcyclohexane	1.0	0.16	ug/L	8260C
Methylene Chloride	1.0	0.44	ug/L	8260C
Methylene Chloride	1.0	0.44	ug/L	8260C
Styrene	1.0	0.73	ug/L	8260C
Styrene	1.0	0.73	ug/L	8260C
Tetrachloroethene	1.0	0.36	ug/L	8260C
Tetrachloroethene	1.0	0.36	ug/L	8260C
Toluene	1.0	0.51	ug/L	8260C
Toluene	1.0	0.51	ug/L	8260C
trans-1,2-Dichloroethene	1.0	0.90	ug/L	8260C
trans-1,2-Dichloroethene	1.0	0.90	ug/L	8260C
trans-1,3-Dichloropropene	1.0	0.37	ug/L	8260C
trans-1,3-Dichloropropene	1.0	0.37	ug/L	8260C
Trichloroethene	1.0	0.46	ug/L	8260C
Trichloroethene	1.0	0.46	ug/L	8260C
Trichlorofluoromethane	1.0	0.88	ug/L	8260C
Trichlorofluoromethane	1.0	0.88	ug/L	8260C
Vinyl chloride	1.0	0.90	ug/L	8260C
Vinyl chloride	1.0	0.90	ug/L	8260C
Xylenes, Total	2.0	0.66	ug/L	8260C
Xylenes, Total	2.0	0.66	ug/L	8260C

Surrogate Summary

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation - Quarterly

TestAmerica Job ID: 480-107471-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		12DCE	BFB	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)
480-107471-1	TRIP BLANK	109	100	95
480-107471-3	MW-1	109	100	97
480-107471-4	MW-18	106	102	100
480-107471-5	MW-20	113	101	99
480-107471-6	MW-21	113	98	99
480-107471-7	PZ-5	111	98	96
480-107471-8	PZ-6	107	97	97
480-107471-9	PZ-11R	114	101	99
480-107471-10	PZ-13R	108	102	100
480-107471-11	A2-PZ-1	114	98	100
480-107471-11 - DL	A2-PZ-1	113	101	99
480-107471-11 MS	A2-PZ-1	111	106	102
480-107471-11 MSD	A2-PZ-1	109	103	101
480-107471-12	A2-PZ-2	116	99	97
480-107471-12 MS	A2-PZ-2	105	102	100
480-107471-12 MSD	A2-PZ-2	109	100	100
480-107471-13	A1-PZ-2	113	96	98
480-107471-14	MW-2	110	102	96
480-107471-14 MS	MW-2MS	111	105	98
480-107471-14 MSD	MW-2MSD	108	104	98
480-107471-15	MW-4	105	99	97
480-107471-16	MW-10	117	99	101
480-107471-17	MW-1-S/D	107	97	96
LCS 480-325584/4	Lab Control Sample	101	105	98
LCS 480-325765/4	Lab Control Sample	103	104	99
LCS 480-325847/4	Lab Control Sample	110	100	99
LCS 480-325887/26	Lab Control Sample	111	102	99
LCS 480-325955/5	Lab Control Sample	108	101	100
MB 480-325584/6	Method Blank	102	101	95
MB 480-325765/6	Method Blank	107	100	98
MB 480-325847/6	Method Blank	111	97	98
MB 480-325887/6	Method Blank	116	103	101
MB 480-325955/7	Method Blank	116	99	101

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: WATER **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		12DCE	BFB	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)
480-107471-2	MW-3	109	101	95

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Surrogate Summary

Client: Stantec Consulting Services Inc

TestAmerica Job ID: 480-107471-1

Project/Site: Lockheed Martin Corporation - Quarterly

TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-325584/6
Matrix: Water
Analysis Batch: 325584

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/14/16 11:27	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/14/16 11:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/14/16 11:27	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/14/16 11:27	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/14/16 11:27	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/14/16 11:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/14/16 11:27	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/14/16 11:27	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/14/16 11:27	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/14/16 11:27	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/14/16 11:27	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/14/16 11:27	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/14/16 11:27	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/14/16 11:27	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/14/16 11:27	1
2-Hexanone	ND		5.0	1.2	ug/L			10/14/16 11:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/14/16 11:27	1
Acetone	ND		10	3.0	ug/L			10/14/16 11:27	1
Benzene	ND		1.0	0.41	ug/L			10/14/16 11:27	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/14/16 11:27	1
Bromoform	ND		1.0	0.26	ug/L			10/14/16 11:27	1
Bromomethane	ND		1.0	0.69	ug/L			10/14/16 11:27	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/14/16 11:27	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/14/16 11:27	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/14/16 11:27	1
Chloroethane	ND		1.0	0.32	ug/L			10/14/16 11:27	1
Chloroform	ND		1.0	0.34	ug/L			10/14/16 11:27	1
Chloromethane	ND		1.0	0.35	ug/L			10/14/16 11:27	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/14/16 11:27	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/14/16 11:27	1
Cyclohexane	ND		1.0	0.18	ug/L			10/14/16 11:27	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/14/16 11:27	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/14/16 11:27	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/14/16 11:27	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/14/16 11:27	1
Methyl acetate	ND		2.5	1.3	ug/L			10/14/16 11:27	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/14/16 11:27	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/14/16 11:27	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/14/16 11:27	1
Styrene	ND		1.0	0.73	ug/L			10/14/16 11:27	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/14/16 11:27	1
Toluene	ND		1.0	0.51	ug/L			10/14/16 11:27	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/14/16 11:27	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/14/16 11:27	1
Trichloroethene	ND		1.0	0.46	ug/L			10/14/16 11:27	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/14/16 11:27	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/14/16 11:27	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/14/16 11:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		10/14/16 11:27	1
4-Bromofluorobenzene (Surr)	101		73 - 120		10/14/16 11:27	1
Toluene-d8 (Surr)	95		80 - 120		10/14/16 11:27	1

Lab Sample ID: LCS 480-325584/4
Matrix: Water
Analysis Batch: 325584

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	25.3		ug/L		101	73 - 126
1,1,2,2-Tetrachloroethane	25.0	20.5		ug/L		82	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.3		ug/L		97	61 - 148
1,1,2-Trichloroethane	25.0	22.8		ug/L		91	76 - 122
1,1-Dichloroethane	25.0	22.3		ug/L		89	77 - 120
1,1-Dichloroethene	25.0	22.7		ug/L		91	66 - 127
1,2,4-Trichlorobenzene	25.0	21.4		ug/L		86	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	18.5		ug/L		74	56 - 134
1,2-Dibromoethane	25.0	23.2		ug/L		93	77 - 120
1,2-Dichlorobenzene	25.0	22.5		ug/L		90	80 - 124
1,2-Dichloroethane	25.0	25.3		ug/L		101	75 - 120
1,2-Dichloropropane	25.0	22.1		ug/L		88	76 - 120
1,3-Dichlorobenzene	25.0	22.4		ug/L		90	77 - 120
1,4-Dichlorobenzene	25.0	22.9		ug/L		91	80 - 120
2-Butanone (MEK)	125	110		ug/L		88	57 - 140
2-Hexanone	125	109		ug/L		87	65 - 127
4-Methyl-2-pentanone (MIBK)	125	99.2		ug/L		79	71 - 125
Acetone	125	142		ug/L		114	56 - 142
Benzene	25.0	22.2		ug/L		89	71 - 124
Bromodichloromethane	25.0	24.4		ug/L		98	80 - 122
Bromoform	25.0	24.5		ug/L		98	61 - 132
Bromomethane	25.0	29.4		ug/L		118	55 - 144
Carbon disulfide	25.0	25.9		ug/L		103	59 - 134
Carbon tetrachloride	25.0	26.8		ug/L		107	72 - 134
Chlorobenzene	25.0	23.5		ug/L		94	80 - 120
Chloroethane	25.0	28.1		ug/L		112	69 - 136
Chloroform	25.0	23.9		ug/L		96	73 - 127
Chloromethane	25.0	19.9		ug/L		80	68 - 124
cis-1,2-Dichloroethene	25.0	23.1		ug/L		93	74 - 124
cis-1,3-Dichloropropene	25.0	23.2		ug/L		93	74 - 124
Cyclohexane	25.0	21.2		ug/L		85	59 - 135
Dibromochloromethane	25.0	24.8		ug/L		99	75 - 125
Dichlorodifluoromethane	25.0	22.4		ug/L		90	59 - 135
Ethylbenzene	25.0	23.0		ug/L		92	77 - 123
Isopropylbenzene	25.0	20.9		ug/L		83	77 - 122
Methyl acetate	125	99.9		ug/L		80	74 - 133
Methyl tert-butyl ether	25.0	23.5		ug/L		94	77 - 120
Methylcyclohexane	25.0	20.8		ug/L		83	68 - 134
Methylene Chloride	25.0	23.6		ug/L		94	75 - 124
Styrene	25.0	22.4		ug/L		90	80 - 120
Tetrachloroethene	25.0	24.3		ug/L		97	74 - 122
Toluene	25.0	22.2		ug/L		89	80 - 122
trans-1,2-Dichloroethene	25.0	22.7		ug/L		91	73 - 127
trans-1,3-Dichloropropene	25.0	24.1		ug/L		96	80 - 120

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

Lab Sample ID: LCS 480-325584/4
Matrix: Water
Analysis Batch: 325584

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	25.0	22.4		ug/L		89	74 - 123
Trichlorofluoromethane	25.0	25.6		ug/L		102	62 - 150
Vinyl chloride	25.0	21.4		ug/L		85	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: MB 480-325765/6
Matrix: Water
Analysis Batch: 325765

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/14/16 23:05	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/14/16 23:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/14/16 23:05	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/14/16 23:05	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/14/16 23:05	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/14/16 23:05	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/14/16 23:05	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/14/16 23:05	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/14/16 23:05	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/14/16 23:05	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/14/16 23:05	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/14/16 23:05	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/14/16 23:05	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/14/16 23:05	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/14/16 23:05	1
2-Hexanone	ND		5.0	1.2	ug/L			10/14/16 23:05	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/14/16 23:05	1
Acetone	ND		10	3.0	ug/L			10/14/16 23:05	1
Benzene	ND		1.0	0.41	ug/L			10/14/16 23:05	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/14/16 23:05	1
Bromoform	ND		1.0	0.26	ug/L			10/14/16 23:05	1
Bromomethane	ND		1.0	0.69	ug/L			10/14/16 23:05	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/14/16 23:05	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/14/16 23:05	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/14/16 23:05	1
Chloroethane	ND		1.0	0.32	ug/L			10/14/16 23:05	1
Chloroform	ND		1.0	0.34	ug/L			10/14/16 23:05	1
Chloromethane	ND		1.0	0.35	ug/L			10/14/16 23:05	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/14/16 23:05	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/14/16 23:05	1
Cyclohexane	ND		1.0	0.18	ug/L			10/14/16 23:05	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/14/16 23:05	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/14/16 23:05	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/14/16 23:05	1

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

Lab Sample ID: MB 480-325765/6
Matrix: Water
Analysis Batch: 325765

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0	0.79	ug/L			10/14/16 23:05	1
Methyl acetate	ND		2.5	1.3	ug/L			10/14/16 23:05	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/14/16 23:05	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/14/16 23:05	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/14/16 23:05	1
Styrene	ND		1.0	0.73	ug/L			10/14/16 23:05	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/14/16 23:05	1
Toluene	ND		1.0	0.51	ug/L			10/14/16 23:05	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/14/16 23:05	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/14/16 23:05	1
Trichloroethene	ND		1.0	0.46	ug/L			10/14/16 23:05	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/14/16 23:05	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/14/16 23:05	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/14/16 23:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*10/14/16 23:05*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*10/14/16 23:05*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/14/16 23:05*	*1*

Lab Sample ID: LCS 480-325765/4
Matrix: Water
Analysis Batch: 325765

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	26.8		ug/L		107	73 - 126
1,1,2,2-Tetrachloroethane	25.0	21.3		ug/L		85	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroetha ne	25.0	25.6		ug/L		103	61 - 148
1,1,2-Trichloroethane	25.0	23.8		ug/L		95	76 - 122
1,1-Dichloroethane	25.0	23.1		ug/L		92	77 - 120
1,1-Dichloroethene	25.0	24.0		ug/L		96	66 - 127
1,2,4-Trichlorobenzene	25.0	22.0		ug/L		88	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	19.9		ug/L		79	56 - 134
1,2-Dibromoethane	25.0	25.1		ug/L		100	77 - 120
1,2-Dichlorobenzene	25.0	23.2		ug/L		93	80 - 124
1,2-Dichloroethane	25.0	26.8		ug/L		107	75 - 120
1,2-Dichloropropane	25.0	22.5		ug/L		90	76 - 120
1,3-Dichlorobenzene	25.0	23.2		ug/L		93	77 - 120
1,4-Dichlorobenzene	25.0	23.3		ug/L		93	80 - 120
2-Butanone (MEK)	125	117		ug/L		94	57 - 140
2-Hexanone	125	117		ug/L		94	65 - 127
4-Methyl-2-pentanone (MIBK)	125	107		ug/L		86	71 - 125
Acetone	125	153		ug/L		123	56 - 142
Benzene	25.0	23.2		ug/L		93	71 - 124
Bromodichloromethane	25.0	26.2		ug/L		105	80 - 122
Bromoform	25.0	26.1		ug/L		104	61 - 132
Bromomethane	25.0	27.9		ug/L		111	55 - 144

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

Lab Sample ID: LCS 480-325765/4
Matrix: Water
Analysis Batch: 325765

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	25.0	27.3		ug/L		109	59 - 134
Carbon tetrachloride	25.0	28.6		ug/L		114	72 - 134
Chlorobenzene	25.0	25.2		ug/L		101	80 - 120
Chloroethane	25.0	30.0		ug/L		120	69 - 136
Chloroform	25.0	25.5		ug/L		102	73 - 127
Chloromethane	25.0	20.6		ug/L		83	68 - 124
cis-1,2-Dichloroethene	25.0	23.6		ug/L		94	74 - 124
cis-1,3-Dichloropropene	25.0	23.6		ug/L		94	74 - 124
Cyclohexane	25.0	21.8		ug/L		87	59 - 135
Dibromochloromethane	25.0	26.8		ug/L		107	75 - 125
Dichlorodifluoromethane	25.0	23.1		ug/L		92	59 - 135
Ethylbenzene	25.0	24.3		ug/L		97	77 - 123
Isopropylbenzene	25.0	21.3		ug/L		85	77 - 122
Methyl acetate	125	104		ug/L		83	74 - 133
Methyl tert-butyl ether	25.0	24.1		ug/L		97	77 - 120
Methylcyclohexane	25.0	21.0		ug/L		84	68 - 134
Methylene Chloride	25.0	24.4		ug/L		98	75 - 124
Styrene	25.0	23.8		ug/L		95	80 - 120
Tetrachloroethene	25.0	25.1		ug/L		101	74 - 122
Toluene	25.0	23.1		ug/L		92	80 - 122
trans-1,2-Dichloroethene	25.0	23.5		ug/L		94	73 - 127
trans-1,3-Dichloropropene	25.0	25.5		ug/L		102	80 - 120
Trichloroethene	25.0	24.1		ug/L		97	74 - 123
Trichlorofluoromethane	25.0	26.9		ug/L		107	62 - 150
Vinyl chloride	25.0	21.1		ug/L		84	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: 480-107471-14 MS
Matrix: Water
Analysis Batch: 325765

Client Sample ID: MW-2MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND	F1	25.0	34.8	F1	ug/L		139	73 - 126
1,1,2,2-Tetrachloroethane	ND		25.0	23.2		ug/L		93	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	33.2		ug/L		133	61 - 148
1,1,2-Trichloroethane	ND		25.0	26.7		ug/L		107	76 - 122
1,1-Dichloroethane	3.9		25.0	32.4		ug/L		114	77 - 120
1,1-Dichloroethene	ND		25.0	31.1		ug/L		124	66 - 127
1,2,4-Trichlorobenzene	ND		25.0	23.6		ug/L		94	79 - 122
1,2-Dibromo-3-Chloropropane	ND		25.0	21.7		ug/L		87	56 - 134
1,2-Dibromoethane	ND		25.0	27.5		ug/L		110	77 - 120
1,2-Dichlorobenzene	ND		25.0	26.1		ug/L		104	80 - 124
1,2-Dichloroethane	ND	F1	25.0	32.3	F1	ug/L		129	75 - 120

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

Lab Sample ID: 480-107471-14 MS
Matrix: Water
Analysis Batch: 325765

Client Sample ID: MW-2MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	ND		25.0	26.1		ug/L		104	76 - 120
1,3-Dichlorobenzene	ND		25.0	25.5		ug/L		102	77 - 120
1,4-Dichlorobenzene	ND		25.0	26.1		ug/L		104	78 - 124
2-Butanone (MEK)	ND		125	115		ug/L		92	57 - 140
2-Hexanone	ND		125	121		ug/L		97	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		125	115		ug/L		92	71 - 125
Acetone	ND		125	135		ug/L		108	56 - 142
Benzene	ND		25.0	28.0		ug/L		112	71 - 124
Bromodichloromethane	ND	F1	25.0	31.3	F1	ug/L		125	80 - 122
Bromoform	ND		25.0	27.8		ug/L		111	61 - 132
Bromomethane	ND	F1	25.0	46.9	F1	ug/L		188	55 - 144
Carbon disulfide	ND	F1	25.0	34.5	F1	ug/L		138	59 - 134
Carbon tetrachloride	ND	F1	25.0	38.6	F1	ug/L		154	72 - 134
Chlorobenzene	ND		25.0	28.7		ug/L		115	80 - 120
Chloroethane	ND	F1	25.0	38.7	F1	ug/L		155	69 - 136
Chloroform	ND	F1	25.0	31.9	F1	ug/L		128	73 - 127
Chloromethane	ND		25.0	24.6		ug/L		98	68 - 124
cis-1,2-Dichloroethene	6.4		25.0	36.2		ug/L		119	74 - 124
cis-1,3-Dichloropropene	ND		25.0	25.2		ug/L		101	74 - 124
Cyclohexane	ND		25.0	26.3		ug/L		105	59 - 135
Dibromochloromethane	ND		25.0	30.2		ug/L		121	75 - 125
Dichlorodifluoromethane	ND		25.0	28.7		ug/L		115	59 - 135
Ethylbenzene	ND		25.0	27.9		ug/L		112	77 - 123
Isopropylbenzene	ND		25.0	23.7		ug/L		95	77 - 122
Methyl acetate	ND		125	114		ug/L		91	74 - 133
Methyl tert-butyl ether	ND		25.0	27.4		ug/L		110	77 - 120
Methylcyclohexane	ND		25.0	24.7		ug/L		99	68 - 134
Methylene Chloride	ND		25.0	29.8		ug/L		119	75 - 124
Styrene	ND		25.0	26.5		ug/L		106	80 - 120
Tetrachloroethene	ND		25.0	30.2		ug/L		121	74 - 122
Toluene	ND		25.0	26.1		ug/L		104	80 - 122
trans-1,2-Dichloroethene	1.5		25.0	31.7		ug/L		121	73 - 127
trans-1,3-Dichloropropene	ND		25.0	27.1		ug/L		108	80 - 120
Trichloroethene	ND		25.0	29.2		ug/L		117	74 - 123
Trichlorofluoromethane	ND	F1	25.0	39.4	F1	ug/L		158	62 - 150
Vinyl chloride	12		25.0	39.7		ug/L		110	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: 480-107471-14 MSD
Matrix: Water
Analysis Batch: 325765

Client Sample ID: MW-2MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND	F1	25.0	33.9	F1	ug/L		136	73 - 126	3	15

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

Lab Sample ID: 480-107471-14 MSD
Matrix: Water
Analysis Batch: 325765

Client Sample ID: MW-2MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane	ND		25.0	23.4		ug/L		94	76 - 120	1	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	30.5		ug/L		122	61 - 148	8	20
1,1,2-Trichloroethane	ND		25.0	26.5		ug/L		106	76 - 122	1	15
1,1-Dichloroethane	3.9		25.0	32.3		ug/L		113	77 - 120	0	20
1,1-Dichloroethene	ND		25.0	30.6		ug/L		122	66 - 127	2	16
1,2,4-Trichlorobenzene	ND		25.0	23.8		ug/L		95	79 - 122	1	20
1,2-Dibromo-3-Chloropropane	ND		25.0	21.5		ug/L		86	56 - 134	1	15
1,2-Dibromoethane	ND		25.0	27.0		ug/L		108	77 - 120	2	15
1,2-Dichlorobenzene	ND		25.0	25.9		ug/L		103	80 - 124	1	20
1,2-Dichloroethane	ND	F1	25.0	31.9	F1	ug/L		128	75 - 120	1	20
1,2-Dichloropropane	ND		25.0	26.6		ug/L		106	76 - 120	2	20
1,3-Dichlorobenzene	ND		25.0	25.5		ug/L		102	77 - 120	0	20
1,4-Dichlorobenzene	ND		25.0	25.9		ug/L		104	78 - 124	1	20
2-Butanone (MEK)	ND		125	115		ug/L		92	57 - 140	0	20
2-Hexanone	ND		125	122		ug/L		97	65 - 127	1	15
4-Methyl-2-pentanone (MIBK)	ND		125	117		ug/L		93	71 - 125	2	35
Acetone	ND		125	134		ug/L		107	56 - 142	1	15
Benzene	ND		25.0	27.6		ug/L		110	71 - 124	2	13
Bromodichloromethane	ND	F1	25.0	30.7	F1	ug/L		123	80 - 122	2	15
Bromoform	ND		25.0	27.6		ug/L		110	61 - 132	1	15
Bromomethane	ND	F1	25.0	45.4	F1	ug/L		182	55 - 144	3	15
Carbon disulfide	ND	F1	25.0	33.8	F1	ug/L		135	59 - 134	2	15
Carbon tetrachloride	ND	F1	25.0	37.6	F1	ug/L		151	72 - 134	2	15
Chlorobenzene	ND		25.0	28.3		ug/L		113	80 - 120	2	25
Chloroethane	ND	F1	25.0	37.5	F1	ug/L		150	69 - 136	3	15
Chloroform	ND	F1	25.0	30.8		ug/L		123	73 - 127	3	20
Chloromethane	ND		25.0	24.7		ug/L		99	68 - 124	0	15
cis-1,2-Dichloroethene	6.4		25.0	36.3		ug/L		120	74 - 124	0	15
cis-1,3-Dichloropropene	ND		25.0	25.6		ug/L		102	74 - 124	2	15
Cyclohexane	ND		25.0	26.0		ug/L		104	59 - 135	1	20
Dibromochloromethane	ND		25.0	30.0		ug/L		120	75 - 125	1	15
Dichlorodifluoromethane	ND		25.0	26.2		ug/L		105	59 - 135	9	20
Ethylbenzene	ND		25.0	28.1		ug/L		113	77 - 123	1	15
Isopropylbenzene	ND		25.0	24.3		ug/L		97	77 - 122	2	20
Methyl acetate	ND		125	112		ug/L		90	74 - 133	2	20
Methyl tert-butyl ether	ND		25.0	27.7		ug/L		111	77 - 120	1	37
Methylcyclohexane	ND		25.0	23.9		ug/L		96	68 - 134	3	20
Methylene Chloride	ND		25.0	29.0		ug/L		116	75 - 124	3	15
Styrene	ND		25.0	26.3		ug/L		105	80 - 120	1	20
Tetrachloroethene	ND		25.0	29.4		ug/L		118	74 - 122	3	20
Toluene	ND		25.0	26.2		ug/L		105	80 - 122	0	15
trans-1,2-Dichloroethene	1.5		25.0	31.2		ug/L		119	73 - 127	2	20
trans-1,3-Dichloropropene	ND		25.0	27.1		ug/L		108	80 - 120	0	15
Trichloroethene	ND		25.0	28.1		ug/L		113	74 - 123	4	16
Trichlorofluoromethane	ND	F1	25.0	36.3		ug/L		145	62 - 150	8	20
Vinyl chloride	12		25.0	39.8		ug/L		111	65 - 133	0	15

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

Lab Sample ID: 480-107471-14 MSD
Matrix: Water
Analysis Batch: 325765

Client Sample ID: MW-2MSD
Prep Type: Total/NA

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: MB 480-325847/6
Matrix: Water
Analysis Batch: 325847

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/15/16 19:23	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/15/16 19:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/15/16 19:23	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/15/16 19:23	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/15/16 19:23	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/15/16 19:23	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/15/16 19:23	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/15/16 19:23	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/15/16 19:23	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/15/16 19:23	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/15/16 19:23	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/15/16 19:23	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/15/16 19:23	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/15/16 19:23	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/15/16 19:23	1
2-Hexanone	ND		5.0	1.2	ug/L			10/15/16 19:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/15/16 19:23	1
Acetone	ND		10	3.0	ug/L			10/15/16 19:23	1
Benzene	ND		1.0	0.41	ug/L			10/15/16 19:23	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/15/16 19:23	1
Bromoform	ND		1.0	0.26	ug/L			10/15/16 19:23	1
Bromomethane	ND		1.0	0.69	ug/L			10/15/16 19:23	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/15/16 19:23	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/15/16 19:23	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/15/16 19:23	1
Chloroethane	ND		1.0	0.32	ug/L			10/15/16 19:23	1
Chloroform	ND		1.0	0.34	ug/L			10/15/16 19:23	1
Chloromethane	ND		1.0	0.35	ug/L			10/15/16 19:23	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/15/16 19:23	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/15/16 19:23	1
Cyclohexane	ND		1.0	0.18	ug/L			10/15/16 19:23	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/15/16 19:23	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/15/16 19:23	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/15/16 19:23	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/15/16 19:23	1
Methyl acetate	ND		2.5	1.3	ug/L			10/15/16 19:23	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/15/16 19:23	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/15/16 19:23	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/15/16 19:23	1

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

Lab Sample ID: MB 480-325847/6
Matrix: Water
Analysis Batch: 325847

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0	0.73	ug/L			10/15/16 19:23	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/15/16 19:23	1
Toluene	ND		1.0	0.51	ug/L			10/15/16 19:23	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/15/16 19:23	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/15/16 19:23	1
Trichloroethene	ND		1.0	0.46	ug/L			10/15/16 19:23	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/15/16 19:23	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/15/16 19:23	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/15/16 19:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*10/15/16 19:23*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*10/15/16 19:23*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/15/16 19:23*	*1*

Lab Sample ID: LCS 480-325847/4
Matrix: Water
Analysis Batch: 325847

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	23.8		ug/L		95	73 - 126
1,1,2,2-Tetrachloroethane	25.0	20.2		ug/L		81	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.8		ug/L		91	61 - 148
1,1,2-Trichloroethane	25.0	21.6		ug/L		86	76 - 122
1,1-Dichloroethane	25.0	21.8		ug/L		87	77 - 120
1,1-Dichloroethene	25.0	20.6		ug/L		83	66 - 127
1,2,4-Trichlorobenzene	25.0	24.0		ug/L		96	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	19.7		ug/L		79	56 - 134
1,2-Dibromoethane	25.0	22.9		ug/L		92	77 - 120
1,2-Dichlorobenzene	25.0	23.1		ug/L		92	80 - 124
1,2-Dichloroethane	25.0	24.5		ug/L		98	75 - 120
1,2-Dichloropropane	25.0	23.2		ug/L		93	76 - 120
1,3-Dichlorobenzene	25.0	23.0		ug/L		92	77 - 120
1,4-Dichlorobenzene	25.0	23.6		ug/L		94	80 - 120
2-Butanone (MEK)	125	109		ug/L		87	57 - 140
2-Hexanone	125	112		ug/L		90	65 - 127
4-Methyl-2-pentanone (MIBK)	125	107		ug/L		86	71 - 125
Acetone	125	91.8		ug/L		73	56 - 142
Benzene	25.0	22.9		ug/L		91	71 - 124
Bromodichloromethane	25.0	24.9		ug/L		100	80 - 122
Bromoform	25.0	23.0		ug/L		92	61 - 132
Bromomethane	25.0	22.6		ug/L		91	55 - 144
Carbon disulfide	25.0	19.7		ug/L		79	59 - 134
Carbon tetrachloride	25.0	24.1		ug/L		97	72 - 134
Chlorobenzene	25.0	22.6		ug/L		90	80 - 120
Chloroethane	25.0	22.4		ug/L		90	69 - 136
Chloroform	25.0	22.3		ug/L		89	73 - 127

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

Lab Sample ID: LCS 480-325847/4
Matrix: Water
Analysis Batch: 325847

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	25.0	20.2		ug/L		81	68 - 124
cis-1,2-Dichloroethene	25.0	22.2		ug/L		89	74 - 124
cis-1,3-Dichloropropene	25.0	23.4		ug/L		94	74 - 124
Cyclohexane	25.0	22.6		ug/L		91	59 - 135
Dibromochloromethane	25.0	24.0		ug/L		96	75 - 125
Dichlorodifluoromethane	25.0	22.1		ug/L		88	59 - 135
Ethylbenzene	25.0	22.2		ug/L		89	77 - 123
Isopropylbenzene	25.0	22.6		ug/L		91	77 - 122
Methyl acetate	125	106		ug/L		85	74 - 133
Methyl tert-butyl ether	25.0	21.7		ug/L		87	77 - 120
Methylcyclohexane	25.0	21.7		ug/L		87	68 - 134
Methylene Chloride	25.0	22.5		ug/L		90	75 - 124
Styrene	25.0	21.7		ug/L		87	80 - 120
Tetrachloroethene	25.0	24.2		ug/L		97	74 - 122
Toluene	25.0	22.0		ug/L		88	80 - 122
trans-1,2-Dichloroethene	25.0	22.2		ug/L		89	73 - 127
trans-1,3-Dichloropropene	25.0	22.2		ug/L		89	80 - 120
Trichloroethene	25.0	24.6		ug/L		98	74 - 123
Trichlorofluoromethane	25.0	23.2		ug/L		93	62 - 150
Vinyl chloride	25.0	21.5		ug/L		86	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: MB 480-325887/6
Matrix: Water
Analysis Batch: 325887

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/16/16 21:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/16/16 21:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/16/16 21:09	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/16/16 21:09	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/16/16 21:09	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/16/16 21:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/16/16 21:09	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/16/16 21:09	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/16/16 21:09	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/16/16 21:09	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/16/16 21:09	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/16/16 21:09	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/16/16 21:09	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/16/16 21:09	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/16/16 21:09	1
2-Hexanone	ND		5.0	1.2	ug/L			10/16/16 21:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/16/16 21:09	1

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

Lab Sample ID: MB 480-325887/6
Matrix: Water
Analysis Batch: 325887

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	3.0	ug/L			10/16/16 21:09	1
Benzene	ND		1.0	0.41	ug/L			10/16/16 21:09	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/16/16 21:09	1
Bromoform	ND		1.0	0.26	ug/L			10/16/16 21:09	1
Bromomethane	ND		1.0	0.69	ug/L			10/16/16 21:09	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/16/16 21:09	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/16/16 21:09	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/16/16 21:09	1
Chloroethane	ND		1.0	0.32	ug/L			10/16/16 21:09	1
Chloroform	ND		1.0	0.34	ug/L			10/16/16 21:09	1
Chloromethane	ND		1.0	0.35	ug/L			10/16/16 21:09	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/16/16 21:09	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/16/16 21:09	1
Cyclohexane	ND		1.0	0.18	ug/L			10/16/16 21:09	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/16/16 21:09	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/16/16 21:09	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/16/16 21:09	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/16/16 21:09	1
Methyl acetate	ND		2.5	1.3	ug/L			10/16/16 21:09	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/16/16 21:09	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/16/16 21:09	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/16/16 21:09	1
Styrene	ND		1.0	0.73	ug/L			10/16/16 21:09	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/16/16 21:09	1
Toluene	ND		1.0	0.51	ug/L			10/16/16 21:09	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/16/16 21:09	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/16/16 21:09	1
Trichloroethene	ND		1.0	0.46	ug/L			10/16/16 21:09	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/16/16 21:09	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/16/16 21:09	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/16/16 21:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*77 - 120*		*10/16/16 21:09*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*10/16/16 21:09*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/16/16 21:09*	*1*

Lab Sample ID: LCS 480-325887/26
Matrix: Water
Analysis Batch: 325887

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	27.6		ug/L		110	73 - 126
1,1,2,2-Tetrachloroethane	25.0	20.5		ug/L		82	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	27.8		ug/L		111	61 - 148
1,1,2-Trichloroethane	25.0	23.9		ug/L		96	76 - 122
1,1-Dichloroethane	25.0	23.6		ug/L		94	77 - 120

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

Lab Sample ID: LCS 480-325887/26
Matrix: Water
Analysis Batch: 325887

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	25.0	24.6		ug/L		98	66 - 127
1,2,4-Trichlorobenzene	25.0	26.1		ug/L		104	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	19.5		ug/L		78	56 - 134
1,2-Dibromoethane	25.0	23.8		ug/L		95	77 - 120
1,2-Dichlorobenzene	25.0	24.7		ug/L		99	80 - 124
1,2-Dichloroethane	25.0	26.7		ug/L		107	75 - 120
1,2-Dichloropropane	25.0	25.0		ug/L		100	76 - 120
1,3-Dichlorobenzene	25.0	24.2		ug/L		97	77 - 120
1,4-Dichlorobenzene	25.0	25.3		ug/L		101	80 - 120
2-Butanone (MEK)	125	113		ug/L		90	57 - 140
2-Hexanone	125	115		ug/L		92	65 - 127
4-Methyl-2-pentanone (MIBK)	125	109		ug/L		87	71 - 125
Acetone	125	98.2		ug/L		79	56 - 142
Benzene	25.0	25.0		ug/L		100	71 - 124
Bromodichloromethane	25.0	26.5		ug/L		106	80 - 122
Bromoform	25.0	23.9		ug/L		96	61 - 132
Bromomethane	25.0	25.7		ug/L		103	55 - 144
Carbon disulfide	25.0	23.9		ug/L		96	59 - 134
Carbon tetrachloride	25.0	28.9		ug/L		116	72 - 134
Chlorobenzene	25.0	24.8		ug/L		99	80 - 120
Chloroethane	25.0	26.1		ug/L		104	69 - 136
Chloroform	25.0	24.9		ug/L		100	73 - 127
Chloromethane	25.0	24.7		ug/L		99	68 - 124
cis-1,2-Dichloroethene	25.0	23.8		ug/L		95	74 - 124
cis-1,3-Dichloropropene	25.0	25.3		ug/L		101	74 - 124
Cyclohexane	25.0	27.4		ug/L		110	59 - 135
Dibromochloromethane	25.0	25.6		ug/L		102	75 - 125
Dichlorodifluoromethane	25.0	34.8	*	ug/L		139	59 - 135
Ethylbenzene	25.0	24.5		ug/L		98	77 - 123
Isopropylbenzene	25.0	24.8		ug/L		99	77 - 122
Methyl acetate	125	110		ug/L		88	74 - 133
Methyl tert-butyl ether	25.0	23.5		ug/L		94	77 - 120
Methylcyclohexane	25.0	25.4		ug/L		102	68 - 134
Methylene Chloride	25.0	23.8		ug/L		95	75 - 124
Styrene	25.0	23.5		ug/L		94	80 - 120
Tetrachloroethene	25.0	27.5		ug/L		110	74 - 122
Toluene	25.0	24.5		ug/L		98	80 - 122
trans-1,2-Dichloroethene	25.0	24.5		ug/L		98	73 - 127
trans-1,3-Dichloropropene	25.0	23.5		ug/L		94	80 - 120
Trichloroethene	25.0	27.0		ug/L		108	74 - 123
Trichlorofluoromethane	25.0	31.6		ug/L		126	62 - 150
Vinyl chloride	25.0	27.2		ug/L		109	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

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

Lab Sample ID: 480-107471-12 MS
Matrix: Water
Analysis Batch: 325887

Client Sample ID: A2-PZ-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		200	205		ug/L		102	73 - 126
1,1,2,2-Tetrachloroethane	ND		200	155		ug/L		78	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		200	192		ug/L		96	61 - 148
1,1,2-Trichloroethane	ND		200	180		ug/L		90	76 - 122
1,1-Dichloroethane	3.4	J	200	183		ug/L		90	77 - 120
1,1-Dichloroethene	ND		200	176		ug/L		88	66 - 127
1,2,4-Trichlorobenzene	ND		200	181		ug/L		91	79 - 122
1,2-Dibromo-3-Chloropropane	ND		200	133		ug/L		66	56 - 134
1,2-Dibromoethane	ND		200	181		ug/L		91	77 - 120
1,2-Dichlorobenzene	ND		200	188		ug/L		94	80 - 124
1,2-Dichloroethane	ND		200	204		ug/L		102	75 - 120
1,2-Dichloropropane	ND		200	181		ug/L		90	76 - 120
1,3-Dichlorobenzene	ND		200	187		ug/L		94	77 - 120
1,4-Dichlorobenzene	ND		200	193		ug/L		97	78 - 124
2-Butanone (MEK)	ND		1000	900		ug/L		90	57 - 140
2-Hexanone	ND		1000	867		ug/L		87	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		1000	803		ug/L		80	71 - 125
Acetone	ND		1000	831		ug/L		83	56 - 142
Benzene	ND		200	191		ug/L		96	71 - 124
Bromodichloromethane	ND		200	194		ug/L		97	80 - 122
Bromoform	ND		200	155		ug/L		77	61 - 132
Bromomethane	ND		200	195		ug/L		98	55 - 144
Carbon disulfide	ND		200	152		ug/L		76	59 - 134
Carbon tetrachloride	ND		200	205		ug/L		103	72 - 134
Chlorobenzene	ND		200	187		ug/L		94	80 - 120
Chloroethane	ND		200	202		ug/L		101	69 - 136
Chloroform	ND		200	183		ug/L		92	73 - 127
Chloromethane	ND		200	176		ug/L		88	68 - 124
cis-1,2-Dichloroethene	82		200	244		ug/L		81	74 - 124
cis-1,3-Dichloropropene	ND		200	169		ug/L		84	74 - 124
Cyclohexane	ND		200	195		ug/L		98	59 - 135
Dibromochloromethane	ND		200	180		ug/L		90	75 - 125
Dichlorodifluoromethane	ND	*	200	229		ug/L		115	59 - 135
Ethylbenzene	ND		200	184		ug/L		92	77 - 123
Isopropylbenzene	ND		200	190		ug/L		95	77 - 122
Methyl acetate	ND		1000	788		ug/L		79	74 - 133
Methyl tert-butyl ether	ND		200	168		ug/L		84	77 - 120
Methylcyclohexane	ND		200	183		ug/L		92	68 - 134
Methylene Chloride	ND		200	178		ug/L		89	75 - 124
Styrene	ND		200	176		ug/L		88	80 - 120
Tetrachloroethene	400	F1	200	555		ug/L		77	74 - 122
Toluene	ND		200	182		ug/L		91	80 - 122
trans-1,2-Dichloroethene	ND		200	186		ug/L		93	73 - 127
trans-1,3-Dichloropropene	ND		200	166		ug/L		83	80 - 120
Trichloroethene	230		200	382		ug/L		78	74 - 123
Trichlorofluoromethane	ND		200	235		ug/L		118	62 - 150
Vinyl chloride	ND		200	207		ug/L		104	65 - 133

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

Lab Sample ID: 480-107471-12 MS
Matrix: Water
Analysis Batch: 325887

Client Sample ID: A2-PZ-2
Prep Type: Total/NA

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: 480-107471-12 MSD
Matrix: Water
Analysis Batch: 325887

Client Sample ID: A2-PZ-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		200	203		ug/L		102	73 - 126	1	15
1,1,2,2-Tetrachloroethane	ND		200	159		ug/L		79	76 - 120	2	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		200	191		ug/L		95	61 - 148	1	20
1,1,2-Trichloroethane	ND		200	180		ug/L		90	76 - 122	0	15
1,1-Dichloroethane	3.4	J	200	179		ug/L		88	77 - 120	2	20
1,1-Dichloroethene	ND		200	177		ug/L		88	66 - 127	1	16
1,2,4-Trichlorobenzene	ND		200	202		ug/L		101	79 - 122	11	20
1,2-Dibromo-3-Chloropropane	ND		200	142		ug/L		71	56 - 134	7	15
1,2-Dibromoethane	ND		200	183		ug/L		92	77 - 120	1	15
1,2-Dichlorobenzene	ND		200	190		ug/L		95	80 - 124	1	20
1,2-Dichloroethane	ND		200	197		ug/L		99	75 - 120	3	20
1,2-Dichloropropane	ND		200	188		ug/L		94	76 - 120	4	20
1,3-Dichlorobenzene	ND		200	186		ug/L		93	77 - 120	0	20
1,4-Dichlorobenzene	ND		200	191		ug/L		95	78 - 124	1	20
2-Butanone (MEK)	ND		1000	906		ug/L		91	57 - 140	1	20
2-Hexanone	ND		1000	890		ug/L		89	65 - 127	3	15
4-Methyl-2-pentanone (MIBK)	ND		1000	819		ug/L		82	71 - 125	2	35
Acetone	ND		1000	842		ug/L		84	56 - 142	1	15
Benzene	ND		200	187		ug/L		93	71 - 124	2	13
Bromodichloromethane	ND		200	192		ug/L		96	80 - 122	1	15
Bromoform	ND		200	155		ug/L		77	61 - 132	0	15
Bromomethane	ND		200	195		ug/L		98	55 - 144	0	15
Carbon disulfide	ND		200	150		ug/L		75	59 - 134	2	15
Carbon tetrachloride	ND		200	205		ug/L		102	72 - 134	0	15
Chlorobenzene	ND		200	183		ug/L		91	80 - 120	3	25
Chloroethane	ND		200	203		ug/L		102	69 - 136	1	15
Chloroform	ND		200	178		ug/L		89	73 - 127	3	20
Chloromethane	ND		200	177		ug/L		89	68 - 124	1	15
cis-1,2-Dichloroethene	82		200	245		ug/L		81	74 - 124	0	15
cis-1,3-Dichloropropene	ND		200	170		ug/L		85	74 - 124	1	15
Cyclohexane	ND		200	192		ug/L		96	59 - 135	2	20
Dibromochloromethane	ND		200	176		ug/L		88	75 - 125	2	15
Dichlorodifluoromethane	ND	*	200	230		ug/L		115	59 - 135	0	20
Ethylbenzene	ND		200	183		ug/L		91	77 - 123	1	15
Isopropylbenzene	ND		200	187		ug/L		94	77 - 122	1	20
Methyl acetate	ND		1000	807		ug/L		81	74 - 133	2	20
Methyl tert-butyl ether	ND		200	167		ug/L		84	77 - 120	0	37
Methylcyclohexane	ND		200	182		ug/L		91	68 - 134	1	20

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

Lab Sample ID: 480-107471-12 MSD
Matrix: Water
Analysis Batch: 325887

Client Sample ID: A2-PZ-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride	ND		200	173		ug/L		87	75 - 124	3	15
Styrene	ND		200	177		ug/L		88	80 - 120	0	20
Tetrachloroethene	400	F1	200	535	F1	ug/L		67	74 - 122	4	20
Toluene	ND		200	182		ug/L		91	80 - 122	0	15
trans-1,2-Dichloroethene	ND		200	179		ug/L		90	73 - 127	4	20
trans-1,3-Dichloropropene	ND		200	164		ug/L		82	80 - 120	1	15
Trichloroethene	230		200	381		ug/L		78	74 - 123	0	16
Trichlorofluoromethane	ND		200	236		ug/L		118	62 - 150	0	20
Vinyl chloride	ND		200	200		ug/L		100	65 - 133	4	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: MB 480-325955/7
Matrix: Water
Analysis Batch: 325955

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/17/16 10:21	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/17/16 10:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/17/16 10:21	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/17/16 10:21	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/17/16 10:21	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/17/16 10:21	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/17/16 10:21	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/17/16 10:21	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/17/16 10:21	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/17/16 10:21	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/17/16 10:21	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/17/16 10:21	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/17/16 10:21	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/17/16 10:21	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/17/16 10:21	1
2-Hexanone	ND		5.0	1.2	ug/L			10/17/16 10:21	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/17/16 10:21	1
Acetone	ND		10	3.0	ug/L			10/17/16 10:21	1
Benzene	ND		1.0	0.41	ug/L			10/17/16 10:21	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/17/16 10:21	1
Bromoform	ND		1.0	0.26	ug/L			10/17/16 10:21	1
Bromomethane	ND		1.0	0.69	ug/L			10/17/16 10:21	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/17/16 10:21	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/17/16 10:21	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/17/16 10:21	1
Chloroethane	ND		1.0	0.32	ug/L			10/17/16 10:21	1
Chloroform	ND		1.0	0.34	ug/L			10/17/16 10:21	1
Chloromethane	ND		1.0	0.35	ug/L			10/17/16 10:21	1

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

Lab Sample ID: MB 480-325955/7
Matrix: Water
Analysis Batch: 325955

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/17/16 10:21	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/17/16 10:21	1
Cyclohexane	ND		1.0	0.18	ug/L			10/17/16 10:21	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/17/16 10:21	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/17/16 10:21	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/17/16 10:21	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/17/16 10:21	1
Methyl acetate	ND		2.5	1.3	ug/L			10/17/16 10:21	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/17/16 10:21	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/17/16 10:21	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/17/16 10:21	1
Styrene	ND		1.0	0.73	ug/L			10/17/16 10:21	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/17/16 10:21	1
Toluene	ND		1.0	0.51	ug/L			10/17/16 10:21	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/17/16 10:21	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/17/16 10:21	1
Trichloroethene	ND		1.0	0.46	ug/L			10/17/16 10:21	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/17/16 10:21	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/17/16 10:21	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/17/16 10:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*77 - 120*		*10/17/16 10:21*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*10/17/16 10:21*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/17/16 10:21*	*1*

Lab Sample ID: LCS 480-325955/5
Matrix: Water
Analysis Batch: 325955

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	25.8		ug/L		103	73 - 126
1,1,2,2-Tetrachloroethane	25.0	20.0		ug/L		80	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroetha ne	25.0	24.5		ug/L		98	61 - 148
1,1,2-Trichloroethane	25.0	22.6		ug/L		90	76 - 122
1,1-Dichloroethane	25.0	22.2		ug/L		89	77 - 120
1,1-Dichloroethene	25.0	22.3		ug/L		89	66 - 127
1,2,4-Trichlorobenzene	25.0	23.9		ug/L		96	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	17.0		ug/L		68	56 - 134
1,2-Dibromoethane	25.0	22.7		ug/L		91	77 - 120
1,2-Dichlorobenzene	25.0	23.7		ug/L		95	80 - 124
1,2-Dichloroethane	25.0	24.7		ug/L		99	75 - 120
1,2-Dichloropropane	25.0	23.0		ug/L		92	76 - 120
1,3-Dichlorobenzene	25.0	23.3		ug/L		93	77 - 120
1,4-Dichlorobenzene	25.0	23.6		ug/L		94	80 - 120
2-Butanone (MEK)	125	129		ug/L		103	57 - 140
2-Hexanone	125	120		ug/L		96	65 - 127

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

Lab Sample ID: LCS 480-325955/5
Matrix: Water
Analysis Batch: 325955

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Methyl-2-pentanone (MIBK)	125	104		ug/L		83	71 - 125
Acetone	125	149		ug/L		119	56 - 142
Benzene	25.0	23.5		ug/L		94	71 - 124
Bromodichloromethane	25.0	24.9		ug/L		100	80 - 122
Bromoform	25.0	22.0		ug/L		88	61 - 132
Bromomethane	25.0	24.2		ug/L		97	55 - 144
Carbon disulfide	25.0	19.4		ug/L		78	59 - 134
Carbon tetrachloride	25.0	25.3		ug/L		101	72 - 134
Chlorobenzene	25.0	23.1		ug/L		93	80 - 120
Chloroethane	25.0	25.1		ug/L		100	69 - 136
Chloroform	25.0	23.4		ug/L		94	73 - 127
Chloromethane	25.0	22.3		ug/L		89	68 - 124
cis-1,2-Dichloroethene	25.0	22.2		ug/L		89	74 - 124
cis-1,3-Dichloropropene	25.0	22.9		ug/L		92	74 - 124
Cyclohexane	25.0	23.6		ug/L		94	59 - 135
Dibromochloromethane	25.0	24.1		ug/L		96	75 - 125
Dichlorodifluoromethane	25.0	28.2		ug/L		113	59 - 135
Ethylbenzene	25.0	22.5		ug/L		90	77 - 123
Isopropylbenzene	25.0	23.1		ug/L		92	77 - 122
Methyl acetate	125	103		ug/L		83	74 - 133
Methyl tert-butyl ether	25.0	21.3		ug/L		85	77 - 120
Methylcyclohexane	25.0	23.2		ug/L		93	68 - 134
Methylene Chloride	25.0	22.2		ug/L		89	75 - 124
Styrene	25.0	22.6		ug/L		90	80 - 120
Tetrachloroethene	25.0	26.0		ug/L		104	74 - 122
Toluene	25.0	22.7		ug/L		91	80 - 122
trans-1,2-Dichloroethene	25.0	22.8		ug/L		91	73 - 127
trans-1,3-Dichloropropene	25.0	21.0		ug/L		84	80 - 120
Trichloroethene	25.0	25.8		ug/L		103	74 - 123
Trichlorofluoromethane	25.0	29.6		ug/L		118	62 - 150
Vinyl chloride	25.0	25.7		ug/L		103	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: 480-107471-11 MS
Matrix: Water
Analysis Batch: 325955

Client Sample ID: A2-PZ-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		5000	5190		ug/L		104	73 - 126
1,1,2,2-Tetrachloroethane	ND		5000	3960		ug/L		79	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	180	J	5000	5270		ug/L		102	61 - 148
1,1,2-Trichloroethane	ND		5000	4380		ug/L		88	76 - 122
1,1-Dichloroethane	600		5000	4900		ug/L		86	77 - 120

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

Lab Sample ID: 480-107471-11 MS
Matrix: Water
Analysis Batch: 325955

Client Sample ID: A2-PZ-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	ND		5000	4510		ug/L		90	66 - 127
1,2,4-Trichlorobenzene	ND		5000	4650		ug/L		93	79 - 122
1,2-Dibromo-3-Chloropropane	ND		5000	3460		ug/L		69	56 - 134
1,2-Dibromoethane	ND		5000	4440		ug/L		89	77 - 120
1,2-Dichlorobenzene	ND		5000	4740		ug/L		95	80 - 124
1,2-Dichloroethane	ND		5000	5000		ug/L		100	75 - 120
1,2-Dichloropropane	ND		5000	4530		ug/L		91	76 - 120
1,3-Dichlorobenzene	ND		5000	4570		ug/L		91	77 - 120
1,4-Dichlorobenzene	ND		5000	4680		ug/L		94	78 - 124
2-Butanone (MEK)	ND		25000	24100		ug/L		96	57 - 140
2-Hexanone	ND		25000	23300		ug/L		93	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		25000	21000		ug/L		84	71 - 125
Acetone	ND		25000	25700		ug/L		103	56 - 142
Benzene	ND		5000	4810		ug/L		96	71 - 124
Bromodichloromethane	ND		5000	4830		ug/L		97	80 - 122
Bromoform	ND		5000	4240		ug/L		85	61 - 132
Bromomethane	ND		5000	5180		ug/L		104	55 - 144
Carbon disulfide	ND		5000	3830		ug/L		77	59 - 134
Carbon tetrachloride	ND		5000	5000		ug/L		100	72 - 134
Chlorobenzene	ND		5000	4670		ug/L		93	80 - 120
Chloroethane	ND		5000	5230		ug/L		105	69 - 136
Chloroform	ND		5000	4550		ug/L		91	73 - 127
Chloromethane	ND		5000	4660		ug/L		93	68 - 124
cis-1,2-Dichloroethene	12000	F1	5000	15000	F1	ug/L		59	74 - 124
cis-1,3-Dichloropropene	ND		5000	4430		ug/L		89	74 - 124
Cyclohexane	ND		5000	4870		ug/L		97	59 - 135
Dibromochloromethane	ND		5000	4630		ug/L		93	75 - 125
Dichlorodifluoromethane	ND		5000	6450		ug/L		129	59 - 135
Ethylbenzene	ND		5000	4560		ug/L		91	77 - 123
Isopropylbenzene	ND		5000	4670		ug/L		93	77 - 122
Methyl acetate	ND		25000	20200		ug/L		81	74 - 133
Methyl tert-butyl ether	ND		5000	4320		ug/L		86	77 - 120
Methylcyclohexane	ND		5000	4550		ug/L		91	68 - 134
Methylene Chloride	ND		5000	4580		ug/L		92	75 - 124
Styrene	ND		5000	4490		ug/L		90	80 - 120
Tetrachloroethene	ND		5000	5160		ug/L		103	74 - 122
Toluene	ND		5000	4570		ug/L		91	80 - 122
trans-1,2-Dichloroethene	ND		5000	4630		ug/L		93	73 - 127
trans-1,3-Dichloropropene	ND		5000	4090		ug/L		82	80 - 120
Trichloroethene	530		5000	5550		ug/L		100	74 - 123
Trichlorofluoromethane	ND		5000	5980		ug/L		120	62 - 150
Vinyl chloride	710		5000	5830		ug/L		102	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*

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

Lab Sample ID: 480-107471-11 MSD
Matrix: Water
Analysis Batch: 325955

Client Sample ID: A2-PZ-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		5000	4880		ug/L		98	73 - 126	6	15
1,1,2,2-Tetrachloroethane	ND		5000	3880		ug/L		78	76 - 120	2	15
1,1,2-Trichloro-1,2,2-trifluoroethane	180	J	5000	4710		ug/L		91	61 - 148	11	20
1,1,2-Trichloroethane	ND		5000	4160		ug/L		83	76 - 122	5	15
1,1-Dichloroethane	600		5000	4750		ug/L		83	77 - 120	3	20
1,1-Dichloroethene	ND		5000	4190		ug/L		84	66 - 127	7	16
1,2,4-Trichlorobenzene	ND		5000	4590		ug/L		92	79 - 122	1	20
1,2-Dibromo-3-Chloropropane	ND		5000	3510		ug/L		70	56 - 134	2	15
1,2-Dibromoethane	ND		5000	4450		ug/L		89	77 - 120	0	15
1,2-Dichlorobenzene	ND		5000	4610		ug/L		92	80 - 124	3	20
1,2-Dichloroethane	ND		5000	4810		ug/L		96	75 - 120	4	20
1,2-Dichloropropane	ND		5000	4530		ug/L		91	76 - 120	0	20
1,3-Dichlorobenzene	ND		5000	4540		ug/L		91	77 - 120	1	20
1,4-Dichlorobenzene	ND		5000	4610		ug/L		92	78 - 124	2	20
2-Butanone (MEK)	ND		25000	23100		ug/L		92	57 - 140	4	20
2-Hexanone	ND		25000	23500		ug/L		94	65 - 127	1	15
4-Methyl-2-pentanone (MIBK)	ND		25000	21100		ug/L		84	71 - 125	0	35
Acetone	ND		25000	23400		ug/L		93	56 - 142	10	15
Benzene	ND		5000	4480		ug/L		90	71 - 124	7	13
Bromodichloromethane	ND		5000	4670		ug/L		93	80 - 122	3	15
Bromoform	ND		5000	4200		ug/L		84	61 - 132	1	15
Bromomethane	ND		5000	4890		ug/L		98	55 - 144	6	15
Carbon disulfide	ND		5000	3760		ug/L		75	59 - 134	2	15
Carbon tetrachloride	ND		5000	4860		ug/L		97	72 - 134	3	15
Chlorobenzene	ND		5000	4520		ug/L		90	80 - 120	3	25
Chloroethane	ND		5000	4840		ug/L		97	69 - 136	8	15
Chloroform	ND		5000	4350		ug/L		87	73 - 127	5	20
Chloromethane	ND		5000	4460		ug/L		89	68 - 124	4	15
cis-1,2-Dichloroethene	12000	F1	5000	14600	F1	ug/L		50	74 - 124	3	15
cis-1,3-Dichloropropene	ND		5000	4310		ug/L		86	74 - 124	3	15
Cyclohexane	ND		5000	4540		ug/L		91	59 - 135	7	20
Dibromochloromethane	ND		5000	4530		ug/L		91	75 - 125	2	15
Dichlorodifluoromethane	ND		5000	5560		ug/L		111	59 - 135	15	20
Ethylbenzene	ND		5000	4330		ug/L		87	77 - 123	5	15
Isopropylbenzene	ND		5000	4460		ug/L		89	77 - 122	4	20
Methyl acetate	ND		25000	20900		ug/L		84	74 - 133	3	20
Methyl tert-butyl ether	ND		5000	4250		ug/L		85	77 - 120	2	37
Methylcyclohexane	ND		5000	4440		ug/L		89	68 - 134	2	20
Methylene Chloride	ND		5000	4350		ug/L		87	75 - 124	5	15
Styrene	ND		5000	4420		ug/L		88	80 - 120	2	20
Tetrachloroethene	ND		5000	5020		ug/L		100	74 - 122	3	20
Toluene	ND		5000	4370		ug/L		87	80 - 122	4	15
trans-1,2-Dichloroethene	ND		5000	4370		ug/L		87	73 - 127	6	20
trans-1,3-Dichloropropene	ND		5000	4170		ug/L		83	80 - 120	2	15
Trichloroethene	530		5000	5320		ug/L		96	74 - 123	4	16
Trichlorofluoromethane	ND		5000	5510		ug/L		110	62 - 150	8	20
Vinyl chloride	710		5000	5370		ug/L		93	65 - 133	8	15

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

Lab Sample ID: 480-107471-11 MSD
Matrix: Water
Analysis Batch: 325955

Client Sample ID: A2-PZ-1
Prep Type: Total/NA

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation - Quarterly

TestAmerica Job ID: 480-107471-1

GC/MS VOA

Analysis Batch: 325584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107471-1	TRIP BLANK	Total/NA	Water	8260C	
480-107471-2	MW-3	Total/NA	WATER	8260C	
480-107471-3	MW-1	Total/NA	Water	8260C	
480-107471-8	PZ-6	Total/NA	Water	8260C	
480-107471-14	MW-2	Total/NA	Water	8260C	
480-107471-15	MW-4	Total/NA	Water	8260C	
480-107471-17	MW-1-S/D	Total/NA	Water	8260C	
MB 480-325584/6	Method Blank	Total/NA	Water	8260C	
LCS 480-325584/4	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 325765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107471-7	PZ-5	Total/NA	Water	8260C	
MB 480-325765/6	Method Blank	Total/NA	Water	8260C	
LCS 480-325765/4	Lab Control Sample	Total/NA	Water	8260C	
480-107471-14 MS	MW-2MS	Total/NA	Water	8260C	
480-107471-14 MSD	MW-2MSD	Total/NA	Water	8260C	

Analysis Batch: 325847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107471-4	MW-18	Total/NA	Water	8260C	
480-107471-5	MW-20	Total/NA	Water	8260C	
480-107471-6	MW-21	Total/NA	Water	8260C	
480-107471-9	PZ-11R	Total/NA	Water	8260C	
480-107471-10	PZ-13R	Total/NA	Water	8260C	
480-107471-11	A2-PZ-1	Total/NA	Water	8260C	
480-107471-13	A1-PZ-2	Total/NA	Water	8260C	
480-107471-16	MW-10	Total/NA	Water	8260C	
MB 480-325847/6	Method Blank	Total/NA	Water	8260C	
LCS 480-325847/4	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 325887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107471-12	A2-PZ-2	Total/NA	Water	8260C	
MB 480-325887/6	Method Blank	Total/NA	Water	8260C	
LCS 480-325887/26	Lab Control Sample	Total/NA	Water	8260C	
480-107471-12 MS	A2-PZ-2	Total/NA	Water	8260C	
480-107471-12 MSD	A2-PZ-2	Total/NA	Water	8260C	

Analysis Batch: 325955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107471-11 - DL	A2-PZ-1	Total/NA	Water	8260C	
MB 480-325955/7	Method Blank	Total/NA	Water	8260C	
LCS 480-325955/5	Lab Control Sample	Total/NA	Water	8260C	
480-107471-11 MS	A2-PZ-1	Total/NA	Water	8260C	
480-107471-11 MSD	A2-PZ-1	Total/NA	Water	8260C	

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation - Quarterly

TestAmerica Job ID: 480-107471-1

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-107471-1

Date Collected: 10/10/16 12:00 — **Matrix: Water**
Date Received: 10/12/16 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	325584	10/14/16 14:32	SMY	TAL BUF

Client Sample ID: MW-3 — Lab Sample ID: 480-107471-2

Date Collected: 10/10/16 15:20 — **Matrix: WATER**
Date Received: 10/12/16 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	325584	10/14/16 14:59	SMY	TAL BUF

Client Sample ID: MW-1 — Lab Sample ID: 480-107471-3

Date Collected: 10/10/16 16:45 — **Matrix: Water**
Date Received: 10/12/16 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	325584	10/14/16 15:26	SMY	TAL BUF

Client Sample ID: MW-18 — Lab Sample ID: 480-107471-4

Date Collected: 10/11/16 14:10 — **Matrix: Water**
Date Received: 10/12/16 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	325847	10/15/16 20:28	JWG	TAL BUF

Client Sample ID: MW-20 — Lab Sample ID: 480-107471-5

Date Collected: 10/11/16 10:05 — **Matrix: Water**
Date Received: 10/12/16 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	325847	10/15/16 20:55	JWG	TAL BUF

Client Sample ID: MW-21 — Lab Sample ID: 480-107471-6

Date Collected: 10/11/16 09:25 — **Matrix: Water**
Date Received: 10/12/16 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	325847	10/15/16 21:22	JWG	TAL BUF

Client Sample ID: PZ-5
Lab Sample ID: 480-107471-7

Date Collected: 10/10/16 13:55
Matrix: Water
Date Received: 10/12/16 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	325765	10/15/16 03:52	RJF	TAL BUF

Client Sample ID: PZ-6
Lab Sample ID: 480-107471-8

Date Collected: 10/10/16 13:40
Matrix: Water
Date Received: 10/12/16 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	325584	10/14/16 16:21	SMY	TAL BUF

Client Sample ID: PZ-11R
Lab Sample ID: 480-107471-9

Date Collected: 10/11/16 14:45
Matrix: Water
Date Received: 10/12/16 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	325847	10/15/16 21:49	JWG	TAL BUF

Client Sample ID: PZ-13R
Lab Sample ID: 480-107471-10

Date Collected: 10/11/16 15:00
Matrix: Water
Date Received: 10/12/16 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	325847	10/15/16 22:15	JWG	TAL BUF

Client Sample ID: A2-PZ-1
Lab Sample ID: 480-107471-11

Date Collected: 10/11/16 11:25
Matrix: Water
Date Received: 10/12/16 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	325847	10/15/16 22:42	JWG	TAL BUF
Total/NA	Analysis	8260C	DL	200	325955	10/17/16 11:03	SMY	TAL BUF

Client Sample ID: A2-PZ-2
Lab Sample ID: 480-107471-12

Date Collected: 10/11/16 14:25
Matrix: Water
Date Received: 10/12/16 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		8	325887	10/16/16 22:21	NEA	TAL BUF

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation - Quarterly

TestAmerica Job ID: 480-107471-1

Client Sample ID: A1-PZ-2 — Lab Sample ID: 480-107471-13

Date Collected: 10/11/16 10:45
Date Received: 10/12/16 00:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	325847	10/15/16 23:36	JWG	TAL BUF

Client Sample ID: MW-2 — Lab Sample ID: 480-107471-14

Date Collected: 10/10/16 16:50
Date Received: 10/12/16 00:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	325584	10/14/16 16:48	SMY	TAL BUF

Client Sample ID: MW-4 — Lab Sample ID: 480-107471-15

Date Collected: 10/10/16 16:00
Date Received: 10/12/16 00:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	325584	10/14/16 17:15	SMY	TAL BUF

Client Sample ID: MW-10 — Lab Sample ID: 480-107471-16

Date Collected: 10/11/16 08:50
Date Received: 10/12/16 00:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	325847	10/16/16 00:03	JWG	TAL BUF

Client Sample ID: MW-1-S/D — Lab Sample ID: 480-107471-17

Date Collected: 10/10/16 16:50
Date Received: 10/12/16 00:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	325584	10/14/16 17:42	SMY	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation - Quarterly

TestAmerica Job ID: 480-107471-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation - Quarterly

TestAmerica Job ID: 480-107471-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF

Protocol References:

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: Lockheed Martin Corporation - Quarterly

TestAmerica Job ID: 480-107471-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-107471-1	TRIP BLANK	Water	10/10/16 12:00	10/12/16 00:45
480-107471-2	MW-3	WATER	10/10/16 15:20	10/12/16 00:45
480-107471-3	MW-1	Water	10/10/16 16:45	10/12/16 00:45
480-107471-4	MW-18	Water	10/11/16 14:10	10/12/16 00:45
480-107471-5	MW-20	Water	10/11/16 10:05	10/12/16 00:45
480-107471-6	MW-21	Water	10/11/16 09:25	10/12/16 00:45
480-107471-7	PZ-5	Water	10/10/16 13:55	10/12/16 00:45
480-107471-8	PZ-6	Water	10/10/16 13:40	10/12/16 00:45
480-107471-9	PZ-11R	Water	10/11/16 14:45	10/12/16 00:45
480-107471-10	PZ-13R	Water	10/11/16 15:00	10/12/16 00:45
480-107471-11	A2-PZ-1	Water	10/11/16 11:25	10/12/16 00:45
480-107471-12	A2-PZ-2	Water	10/11/16 14:25	10/12/16 00:45
480-107471-13	A1-PZ-2	Water	10/11/16 10:45	10/12/16 00:45
480-107471-14	MW-2	Water	10/10/16 16:50	10/12/16 00:45
480-107471-15	MW-4	Water	10/10/16 16:00	10/12/16 00:45
480-107471-16	MW-10	Water	10/11/16 08:50	10/12/16 00:45
480-107471-17	MW-1-S/D	Water	10/10/16 16:50	10/12/16 00:45

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Instrument ID: HP5973N Analysis Batch Number: 324022

Lab Sample ID: IC 480-324022/5 Client Sample ID:

Date Analyzed: 10/05/16 23:21 Lab File ID: N8456.D GC Column: ZB-624 (20) ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acrolein	2.72	Poor chromatography	gentilej	10/06/16 13:41
1,4-Dioxane	6.24	Poor chromatography	gentilej	10/06/16 12:56
1,2-Dibromo-3-Chloropropane	12.00	Poor chromatography	gentilej	10/06/16 12:56

Lab Sample ID: IC 480-324022/6 Client Sample ID:

Date Analyzed: 10/05/16 23:48 Lab File ID: N8457.D GC Column: ZB-624 (20) ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	6.25	Poor chromatography	gentilej	10/06/16 12:57

Lab Sample ID: IC 480-324022/7 Client Sample ID:

Date Analyzed: 10/06/16 00:14 Lab File ID: N8458.D GC Column: ZB-624 (20) ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acrolein	2.72	Poor chromatography	gentilej	10/06/16 13:31
1,4-Dioxane	6.25	Poor chromatography	gentilej	10/06/16 12:57

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Instrument ID: HP5973N Analysis Batch Number: 325847

Lab Sample ID: 480-107471-4 Client Sample ID: MW-18

Date Analyzed: 10/15/16 20:28 Lab File ID: N8918.D GC Column: ZB-624 (20) ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	1.63	Poor chromatography	gentilej	10/16/16 16:41

Lab Sample ID: 480-107471-5 Client Sample ID: MW-20

Date Analyzed: 10/15/16 20:55 Lab File ID: N8919.D GC Column: ZB-624 (20) ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroform	4.78	Poor chromatography	gentilej	10/16/16 16:42

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Instrument ID: HP5973P Analysis Batch Number: 320502

Lab Sample ID: IC 480-320502/5 Client Sample ID:

Date Analyzed: 09/15/16 15:01 Lab File ID: P0159.D GC Column: ZB-624 (60) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Methyl-2-propanol	6.95	Incomplete Integration	cwiklinc	09/16/16 13:04
1,4-Dioxane	10.71	Poor chromatography	gentilej	09/16/16 10:28

Lab Sample ID: IC 480-320502/6 Client Sample ID:

Date Analyzed: 09/15/16 15:28 Lab File ID: P0160.D GC Column: ZB-624 (60) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Methyl-2-propanol	6.94	Other	cwiklinc	09/16/16 13:03
Cyclohexane	9.14	Other	cwiklinc	09/16/16 12:58
1,2-Dibromo-3-Chloropropane	18.24	Poor chromatography	gentilej	09/16/16 10:38

Lab Sample ID: IC 480-320502/7 Client Sample ID:

Date Analyzed: 09/15/16 15:55 Lab File ID: P0161.D GC Column: ZB-624 (60) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Cyclohexane	9.14	Other	cwiklinc	09/16/16 13:08
trans-1,4-Dichloro-2-butene	15.48	Incomplete Integration	cwiklinc	09/16/16 13:13

Lab Sample ID: ICIS 480-320502/9 Client Sample ID:

Date Analyzed: 09/15/16 16:50 Lab File ID: P0163.D GC Column: ZB-624 (60) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Methyl-2-propanol	6.94	Other	cwiklinc	09/16/16 13:05
Cyclohexane	9.14	Other	cwiklinc	09/16/16 12:56
trans-1,4-Dichloro-2-butene	15.49	Incomplete Integration	cwiklinc	09/16/16 13:13

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Instrument ID: HP5973P Analysis Batch Number: 320502

Lab Sample ID: IC 480-320502/10 Client Sample ID:

Date Analyzed: 09/15/16 17:17 Lab File ID: P0164.D GC Column: ZB-624 (60) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Methyl-2-propanol	6.94	Other	cwiklinc	09/16/16 13:02

Lab Sample ID: IC 480-320502/11 Client Sample ID:

Date Analyzed: 09/15/16 17:44 Lab File ID: P0165.D GC Column: ZB-624 (60) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Methyl-2-propanol	6.95	Other	cwiklinc	09/16/16 13:01
trans-1,4-Dichloro-2-butene	15.49	Incomplete Integration	cwiklinc	09/16/16 13:13

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Instrument ID: HP5973P Analysis Batch Number: 325584

Lab Sample ID: 480-107471-3 Client Sample ID: MW-1

Date Analyzed: 10/14/16 15:26 Lab File ID: P1402.D GC Column: ZB-624 (60) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	6.34	Missed Peak	youngmans	10/14/16 16:41

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
8260 CORP mix_00082	10/31/16	09/15/16	Methanol, Lot 127999	20 mL	2-CEVE_00050	800 uL	2-Chloroethyl vinyl ether	100 mg/L
					Acrolein Mix_00178	500 uL	Acrolein	500 mg/L
					Ketones_00051	800 uL	2-Butanone (MEK)	500 mg/L
							2-Hexanone	500 mg/L
							4-Methyl-2-pentanone (MIBK)	500 mg/L
							Acetone	500 mg/L
					MegaMix_00051	800 uL	1,1,1,2-Tetrachloroethane	100 mg/L
							1,1,1-Trichloroethane	100 mg/L
							1,1,2,2-Tetrachloroethane	100 mg/L
							1,1,2-Trichloro-1,2,2-trifluor oethane	100 mg/L
							1,1,2-Trichloroethane	100 mg/L
							1,1-Dichloroethane	100 mg/L
							1,1-Dichloroethene	100 mg/L
							1,1-Dichloropropene	100 mg/L
							1,2,3-Trichlorobenzene	100 mg/L
							1,2,3-Trichloropropane	100 mg/L
							1,2,4-Trichlorobenzene	100 mg/L
							1,2,4-Trimethylbenzene	100 mg/L
							1,2-Dibromo-3-Chloropropane	100 mg/L
							1,2-Dibromoethane	100 mg/L
							1,2-Dichlorobenzene	100 mg/L
							1,2-Dichloroethane	100 mg/L
							1,2-Dichloropropane	100 mg/L
							1,3,5-Trimethylbenzene	100 mg/L
							1,3-Dichlorobenzene	100 mg/L
							1,3-Dichloropropane	100 mg/L
							1,4-Dichlorobenzene	100 mg/L
							1,4-Dioxane	2000 mg/L
							2,2-Dichloropropane	100 mg/L
							2-Chlorotoluene	100 mg/L
							2-Methyl-2-propanol	1000 mg/L
							3-Chloro-1-propene	100 mg/L
							4-Chlorotoluene	100 mg/L
							4-Isopropyltoluene	100 mg/L
							Acrylonitrile	1000 mg/L
							Benzene	100 mg/L
							Bromobenzene	100 mg/L
							Bromodichloromethane	100 mg/L
							Bromoform	100 mg/L
							Carbon disulfide	100 mg/L
							Carbon tetrachloride	100 mg/L
							Chlorobenzene	100 mg/L
							Chlorobromomethane	100 mg/L
							Chloroform	100 mg/L
							cis-1,2-Dichloroethene	100 mg/L
							cis-1,3-Dichloropropene	100 mg/L
							Cyclohexane	100 mg/L

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromochloromethane	100 mg/L
							Dibromomethane	100 mg/L
							Ethyl ether	100 mg/L
							Ethyl methacrylate	100 mg/L
							Ethylbenzene	100 mg/L
							Hexachlorobutadiene	100 mg/L
							Hexane	100 mg/L
							Iodomethane	100 mg/L
							Isobutyl alcohol	2500 mg/L
							Isopropylbenzene	100 mg/L
							m-Xylene & p-Xylene	100 mg/L
							Methyl acetate	500 mg/L
							Methyl tert-butyl ether	100 mg/L
							Methylcyclohexane	100 mg/L
							Methylene Chloride	100 mg/L
							n-Butylbenzene	100 mg/L
							n-Heptane	100 mg/L
							N-Propylbenzene	100 mg/L
							Naphthalene	100 mg/L
							o-Xylene	100 mg/L
							sec-Butylbenzene	100 mg/L
							Styrene	100 mg/L
							tert-Butylbenzene	100 mg/L
							Tetrachloroethene	100 mg/L
							Tetrahydrofuran	200 mg/L
							Toluene	100 mg/L
							trans-1,2-Dichloroethene	100 mg/L
							trans-1,3-Dichloropropene	100 mg/L
							trans-1,4-Dichloro-2-butene	100 mg/L
							Trichloroethene	100 mg/L
					Vinyl Acetate_00067	800 uL	Vinyl acetate	200 mg/L
.2-CEVE_00050	03/15/17		Restek, Lot A0115628		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.Acrolein Mix_00178	10/31/16		Restek, Lot A0119846		(Purchased Reagent)		Acrolein	20000 ug/mL
.Ketones_00051	03/15/17		Restek, Lot A0115554		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.MegaMix_00051	03/15/17		Restek, Lot A0108166		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.Vinyl Acetate_00067	10/31/16	Restek, Lot A0118759			(Purchased Reagent)		Vinyl acetate	5000 ug/mL
8260 CORP mix_00083	10/31/16	09/15/16	Methanol, Lot 127999	20 mL	2-CEVE_00051	800 uL	2-Chloroethyl vinyl ether	100 mg/L
					Acrolein Mix_00179	500 uL	Acrolein	500 mg/L
					Ketones_00052	800 uL	2-Butanone (MEK)	500 mg/L
							2-Hexanone	500 mg/L
							4-Methyl-2-pentanone (MIBK)	500 mg/L
							Acetone	500 mg/L
					MegaMix_00052	800 uL	1,1,1,2-Tetrachloroethane	100 mg/L
							1,1,1-Trichloroethane	100 mg/L
							1,1,2,2-Tetrachloroethane	100 mg/L
							1,1,2-Trichloro-1,2,2-trifluor oethane	100 mg/L
							1,1,2-Trichloroethane	100 mg/L
							1,1-Dichloroethane	100 mg/L
							1,1-Dichloroethene	100 mg/L
							1,1-Dichloropropene	100 mg/L
							1,2,3-Trichlorobenzene	100 mg/L
							1,2,3-Trichloropropane	100 mg/L
							1,2,4-Trichlorobenzene	100 mg/L
							1,2,4-Trimethylbenzene	100 mg/L
							1,2-Dibromo-3-Chloropropane	100 mg/L
							1,2-Dibromoethane	100 mg/L
							1,2-Dichlorobenzene	100 mg/L
							1,2-Dichloroethane	100 mg/L
							1,2-Dichloropropane	100 mg/L
							1,3,5-Trimethylbenzene	100 mg/L
							1,3-Dichlorobenzene	100 mg/L
							1,3-Dichloropropane	100 mg/L
							1,4-Dichlorobenzene	100 mg/L
							1,4-Dioxane	2000 mg/L
							2,2-Dichloropropane	100 mg/L
							2-Chlorotoluene	100 mg/L
							2-Methyl-2-propanol	1000 mg/L
							3-Chloro-1-propene	100 mg/L
							4-Chlorotoluene	100 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Isopropyltoluene	100 mg/L
							Acrylonitrile	1000 mg/L
							Benzene	100 mg/L
							Bromobenzene	100 mg/L
							Bromodichloromethane	100 mg/L
							Bromoform	100 mg/L
							Carbon disulfide	100 mg/L
							Carbon tetrachloride	100 mg/L
							Chlorobenzene	100 mg/L
							Chlorobromomethane	100 mg/L
							Chloroform	100 mg/L
							cis-1,2-Dichloroethene	100 mg/L
							cis-1,3-Dichloropropene	100 mg/L
							Cyclohexane	100 mg/L
							Dibromochloromethane	100 mg/L
							Dibromomethane	100 mg/L
							Ethyl ether	100 mg/L
							Ethyl methacrylate	100 mg/L
							Ethylbenzene	100 mg/L
							Hexachlorobutadiene	100 mg/L
							Hexane	100 mg/L
							Iodomethane	100 mg/L
							Isobutyl alcohol	2500 mg/L
							Isopropylbenzene	100 mg/L
							m-Xylene & p-Xylene	100 mg/L
							Methyl acetate	500 mg/L
							Methyl tert-butyl ether	100 mg/L
							Methylcyclohexane	100 mg/L
							Methylene Chloride	100 mg/L
							n-Butylbenzene	100 mg/L
							n-Heptane	100 mg/L
							N-Propylbenzene	100 mg/L
							Naphthalene	100 mg/L
							o-Xylene	100 mg/L
							sec-Butylbenzene	100 mg/L
							Styrene	100 mg/L
							tert-Butylbenzene	100 mg/L
							Tetrachloroethene	100 mg/L
							Tetrahydrofuran	200 mg/L
							Toluene	100 mg/L
							trans-1,2-Dichloroethene	100 mg/L
							trans-1,3-Dichloropropene	100 mg/L
							trans-1,4-Dichloro-2-butene	100 mg/L
							Trichloroethene	100 mg/L
					Vinyl Acetate_00068	800 uL	Vinyl acetate	200 mg/L
.2-CEVE_00051	03/28/17		Restek, Lot A0115628		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.Acrolein Mix_00179	10/31/16		Restek, Lot A0119846		(Purchased Reagent)		Acrolein	20000 ug/mL
.Ketones_00052	03/28/17		Restek, Lot A0115554		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.MegaMix_00052	01/31/17	Restek, Lot A0108166			(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.Vinyl Acetate_00068	10/31/16	Restek, Lot A0118759			(Purchased Reagent)		Vinyl acetate	5000 ug/mL
GAS CORP mix_00178	09/19/16	09/12/16	Methanol, Lot 0000127999	20 mL	8260/624-Gas_00088	800 uL	Bromomethane	100 ug/mL
							Butadiene	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Dichlorofluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.8260/624-Gas_00088	09/19/16	Restek, Lot A0115012			(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
GAS CORP mix_00182	10/10/16	10/03/16	Methanol, Lot 0000136118	20 mL	8260/624-Gas_00091	800 uL	Bromomethane	100 ug/mL

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Butadiene	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Dichlorofluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.8260/624-Gas_00091	10/31/18	Restek, Lot A0115012			(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
GAS CORP mix_00183	10/16/16	10/09/16	Methanol, Lot 0000136118	20 mL	8260/624-Gas_00093	800 uL	Bromomethane	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.8260/624-Gas_00093	10/16/16	Restek, Lot A0118719			(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
GAS CORP mix_00184	10/23/16	10/16/16	Methanol, Lot 0000136118	20 mL	8260/624-Gas_00094	800 uL	Bromomethane	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.8260/624-Gas_00094	04/30/19	Restek, Lot A0118719			(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
N 8260 IS_00036	12/05/16	10/05/16	P&T Methanol, Lot 136118	10 mL	IS_STK_00551	500 uL	1,4-Dichlorobenzene-d4	125 ug/mL
							Chlorobenzene-d5	125 ug/mL
							Fluorobenzene (IS)	125 ug/mL
.IS_STK_00551	04/05/17	Restek, Lot A0117358			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorobenzene (IS)	2500 ug/mL
N 8260 IS_00038	12/14/16	10/14/16	P&T Methanol, Lot 136118	10 mL	IS_STK_00595	500 uL	1,4-Dichlorobenzene-d4	125 ug/mL
							Chlorobenzene-d5	125 ug/mL
							Fluorobenzene (IS)	125 ug/mL
.IS_STK_00595	04/14/17		Restek, Lot A0117358		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
N_8260_Surr_00208	12/05/16	10/05/16	P&T Methanol, Lot 136118	10 mL	SURR_STK_00154	500 uL	1,2-Dichloroethane-d4 (Surr)	125 ug/mL
							4-Bromofluorobenzene (Surr)	125 ug/mL
							Dibromofluoromethane (Surr)	125 ug/mL
							Toluene-d8 (Surr)	125 ug/mL
.SURR_STK_00154	04/02/17		Restek, Lot A0115812		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
N_8260_Surr_00210	12/12/16	10/12/16	P&T Methanol, Lot 136118	10 mL	SURR_STK_00154	500 uL	1,2-Dichloroethane-d4 (Surr)	125 ug/mL
							4-Bromofluorobenzene (Surr)	125 ug/mL
							Dibromofluoromethane (Surr)	125 ug/mL
							Toluene-d8 (Surr)	125 ug/mL
.SURR_STK_00154	04/02/17		Restek, Lot A0115812		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
N_8260_Surr_00211	12/15/16	10/15/16	P&T Methanol, Lot 136118	10 mL	SURR_STK_00168	500 uL	1,2-Dichloroethane-d4 (Surr)	125 ug/mL
							4-Bromofluorobenzene (Surr)	125 ug/mL
							Dibromofluoromethane (Surr)	125 ug/mL
							Toluene-d8 (Surr)	125 ug/mL
.SURR_STK_00168	04/11/17		Restek, Lot A0115812		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
P 8260 IS_00166	11/13/16	09/13/16	Methanol, Lot 127999	5 mL	IS_STK_00541	200 uL	1,4-Dichlorobenzene-d4	100 ug/mL
							Chlorobenzene-d5	100 ug/mL
							Fluorobenzene (IS)	100 ug/mL
.IS_STK_00541	03/13/17		Restek, Lot A0117358		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
P 8260 IS_00173	12/12/16	10/12/16	Methanol, Lot 127999	5 mL	IS_STK_00594	200 uL	1,4-Dichlorobenzene-d4	100 ug/mL
							Chlorobenzene-d5	100 ug/mL
							Fluorobenzene (IS)	100 ug/mL
.IS_STK_00594	04/09/17		Restek, Lot A0117358		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorobenzene (IS)	2500 ug/mL
P 8260 Surr._00195	11/13/16	09/13/16	Methanol, Lot 127999	5 mL	SURR_STK_00153	200 uL	1,2-Dichloroethane-d4 (Surr)	100 ug/mL
							4-Bromofluorobenzene (Surr)	100 ug/mL
							Dibromofluoromethane (Surr)	100 ug/mL
							Toluene-d8 (Surr)	100 ug/mL
.SURR_STK_00153	03/09/17		Restek, Lot A0115812		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
P 8260 Surr._00197	12/07/16	10/07/16	Methanol, Lot 127999	5 mL	SURR_STK_00154	200 uL	1,2-Dichloroethane-d4 (Surr)	100 ug/mL
							4-Bromofluorobenzene (Surr)	100 ug/mL
							Dibromofluoromethane (Surr)	100 ug/mL
							Toluene-d8 (Surr)	100 ug/mL
.SURR_STK_00154	04/02/17		Restek, Lot A0115812		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL

Reagent

SURR_STK_00153

Surr STK 153 → 162

RESTEK® CERTIFIED REFERENCE MATERIAL

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Tel: (800)356-1688
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Certificate of Analysis

ACCREDITED ISO Guide 34 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567650 **Lot No.:** A0115812

Description : 8260 Surrogate Standard

8260 Surrogate Standard 2,500 ug/ml, P&T Methanol, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2020 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dibromofluoromethane **CAS #** 1868-53-7 (Lot 022012) **Purity** 99%	2,503.1 µg/mL	+/- 14.5534 µg/mL +/- 140.3482 µg/mL +/- 143.6322 µg/mL	Gravimetric Unstressed Stressed
2	1,2-Dichloroethane-d4 **CAS #** 17060-07-0 (Lot 14C-191) **Purity** 99%	2,500.1 µg/mL	+/- 14.5360 µg/mL +/- 140.1800 µg/mL +/- 143.4600 µg/mL	Gravimetric Unstressed Stressed
3	Toluene-d8 **CAS #** 2037-26-5 (Lot PR-26282) **Purity** 99%	2,505.0 µg/mL	+/- 14.5643 µg/mL +/- 140.4529 µg/mL +/- 143.7393 µg/mL	Gravimetric Unstressed Stressed
4	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 (Lot 20401KOV) **Purity** 99%	2,501.1 µg/mL	+/- 14.5418 µg/mL +/- 140.2361 µg/mL +/- 143.5174 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

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 #
TRIP BLANK	480-107471-1	109	95	100
MW-3	480-107471-2	109	95	101
MW-1	480-107471-3	109	97	100
MW-18	480-107471-4	106	100	102
MW-20	480-107471-5	113	99	101
MW-21	480-107471-6	113	99	98
PZ-5	480-107471-7	111	96	98
PZ-6	480-107471-8	107	97	97
PZ-11R	480-107471-9	114	99	101
PZ-13R	480-107471-10	108	100	102
A2-PZ-1	480-107471-11	114	100	98
A2-PZ-1 DL	480-107471-11 DL	113	99	101
A2-PZ-2	480-107471-12	116	97	99
A1-PZ-2	480-107471-13	113	98	96
MW-2	480-107471-14	110	96	102
MW-4	480-107471-15	105	97	99
MW-10	480-107471-16	117	101	99
MW-1-S/D	480-107471-17	107	96	97
	MB 480-325584/6	102	95	101
	MB 480-325765/6	107	98	100
	MB 480-325847/6	111	98	97
	MB 480-325887/6	116	101	103
	MB 480-325955/7	116	101	99
	LCS 480-325584/4	101	98	105
	LCS 480-325765/4	103	99	104
	LCS 480-325847/4	110	99	100
	LCS 480-325887/26	111	99	102
	LCS 480-325955/5	108	100	101
A2-PZ-1 MS	480-107471-11 MS	111	102	106
A2-PZ-2 MS	480-107471-12 MS	105	100	102
MW-2MS MS	480-107471-14 MS	111	98	105
A2-PZ-1 MSD	480-107471-11 MSD	109	101	103
A2-PZ-2 MSD	480-107471-12 MSD	109	100	100

	QC LIMITS
DCA = 1,2-Dichloroethane-d4 (Surr)	77-120
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	73-120

Column to be used to flag recovery values

FORM II 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

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-2MSD MSD	480-107471-14 MSD	108	98	104

	QC LIMITS
DCA = 1,2-Dichloroethane-d4 (Surr)	77-120
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	73-120

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P1392.D

Lab ID: LCS 480-325584/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	25.3	101	73-126	
1,1,2,2-Tetrachloroethane	25.0	20.5	82	76-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.3	97	61-148	
1,1,2-Trichloroethane	25.0	22.8	91	76-122	
1,1-Dichloroethane	25.0	22.3	89	77-120	
1,1-Dichloroethene	25.0	22.7	91	66-127	
1,2,4-Trichlorobenzene	25.0	21.4	86	79-122	
1,2-Dibromo-3-Chloropropane	25.0	18.5	74	56-134	
1,2-Dibromoethane	25.0	23.2	93	77-120	
1,2-Dichlorobenzene	25.0	22.5	90	80-124	
1,2-Dichloroethane	25.0	25.3	101	75-120	
1,2-Dichloropropane	25.0	22.1	88	76-120	
1,3-Dichlorobenzene	25.0	22.4	90	77-120	
1,4-Dichlorobenzene	25.0	22.9	91	80-120	
2-Butanone (MEK)	125	110	88	57-140	
2-Hexanone	125	109	87	65-127	
4-Methyl-2-pentanone (MIBK)	125	99.2	79	71-125	
Acetone	125	142	114	56-142	
Benzene	25.0	22.2	89	71-124	
Bromodichloromethane	25.0	24.4	98	80-122	
Bromoform	25.0	24.5	98	61-132	
Bromomethane	25.0	29.4	118	55-144	
Carbon disulfide	25.0	25.9	103	59-134	
Carbon tetrachloride	25.0	26.8	107	72-134	
Chlorobenzene	25.0	23.5	94	80-120	
Chloroethane	25.0	28.1	112	69-136	
Chloroform	25.0	23.9	96	73-127	
Chloromethane	25.0	19.9	80	68-124	
cis-1,2-Dichloroethene	25.0	23.1	93	74-124	
cis-1,3-Dichloropropene	25.0	23.2	93	74-124	
Cyclohexane	25.0	21.2	85	59-135	
Dibromochloromethane	25.0	24.8	99	75-125	
Dichlorodifluoromethane	25.0	22.4	90	59-135	
Ethylbenzene	25.0	23.0	92	77-123	
Isopropylbenzene	25.0	20.9	83	77-122	
Methyl acetate	125	99.9	80	74-133	
Methyl tert-butyl ether	25.0	23.5	94	77-120	
Methylcyclohexane	25.0	20.8	83	68-134	
Methylene Chloride	25.0	23.6	94	75-124	
Styrene	25.0	22.4	90	80-120	
Tetrachloroethene	25.0	24.3	97	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P1392.D

Lab ID: LCS 480-325584/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	22.2	89	80-122	
trans-1,2-Dichloroethene	25.0	22.7	91	73-127	
trans-1,3-Dichloropropene	25.0	24.1	96	80-120	
Trichloroethene	25.0	22.4	89	74-123	
Trichlorofluoromethane	25.0	25.6	102	62-150	
Vinyl chloride	25.0	21.4	85	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P1416.D

Lab ID: LCS 480-325765/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	26.8	107	73-126	
1,1,2,2-Tetrachloroethane	25.0	21.3	85	76-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.6	103	61-148	
1,1,2-Trichloroethane	25.0	23.8	95	76-122	
1,1-Dichloroethane	25.0	23.1	92	77-120	
1,1-Dichloroethene	25.0	24.0	96	66-127	
1,2,4-Trichlorobenzene	25.0	22.0	88	79-122	
1,2-Dibromo-3-Chloropropane	25.0	19.9	79	56-134	
1,2-Dibromoethane	25.0	25.1	100	77-120	
1,2-Dichlorobenzene	25.0	23.2	93	80-124	
1,2-Dichloroethane	25.0	26.8	107	75-120	
1,2-Dichloropropane	25.0	22.5	90	76-120	
1,3-Dichlorobenzene	25.0	23.2	93	77-120	
1,4-Dichlorobenzene	25.0	23.3	93	80-120	
2-Butanone (MEK)	125	117	94	57-140	
2-Hexanone	125	117	94	65-127	
4-Methyl-2-pentanone (MIBK)	125	107	86	71-125	
Acetone	125	153	123	56-142	
Benzene	25.0	23.2	93	71-124	
Bromodichloromethane	25.0	26.2	105	80-122	
Bromoform	25.0	26.1	104	61-132	
Bromomethane	25.0	27.9	111	55-144	
Carbon disulfide	25.0	27.3	109	59-134	
Carbon tetrachloride	25.0	28.6	114	72-134	
Chlorobenzene	25.0	25.2	101	80-120	
Chloroethane	25.0	30.0	120	69-136	
Chloroform	25.0	25.5	102	73-127	
Chloromethane	25.0	20.6	83	68-124	
cis-1,2-Dichloroethene	25.0	23.6	94	74-124	
cis-1,3-Dichloropropene	25.0	23.6	94	74-124	
Cyclohexane	25.0	21.8	87	59-135	
Dibromochloromethane	25.0	26.8	107	75-125	
Dichlorodifluoromethane	25.0	23.1	92	59-135	
Ethylbenzene	25.0	24.3	97	77-123	
Isopropylbenzene	25.0	21.3	85	77-122	
Methyl acetate	125	104	83	74-133	
Methyl tert-butyl ether	25.0	24.1	97	77-120	
Methylcyclohexane	25.0	21.0	84	68-134	
Methylene Chloride	25.0	24.4	98	75-124	
Styrene	25.0	23.8	95	80-120	
Tetrachloroethene	25.0	25.1	101	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P1416.D

Lab ID: LCS 480-325765/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	23.1	92	80-122	
trans-1,2-Dichloroethene	25.0	23.5	94	73-127	
trans-1,3-Dichloropropene	25.0	25.5	102	80-120	
Trichloroethene	25.0	24.1	97	74-123	
Trichlorofluoromethane	25.0	26.9	107	62-150	
Vinyl chloride	25.0	21.1	84	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N8914.D

Lab ID: LCS 480-325847/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	23.8	95	73-126	
1,1,2,2-Tetrachloroethane	25.0	20.2	81	76-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.8	91	61-148	
1,1,2-Trichloroethane	25.0	21.6	86	76-122	
1,1-Dichloroethane	25.0	21.8	87	77-120	
1,1-Dichloroethene	25.0	20.6	83	66-127	
1,2,4-Trichlorobenzene	25.0	24.0	96	79-122	
1,2-Dibromo-3-Chloropropane	25.0	19.7	79	56-134	
1,2-Dibromoethane	25.0	22.9	92	77-120	
1,2-Dichlorobenzene	25.0	23.1	92	80-124	
1,2-Dichloroethane	25.0	24.5	98	75-120	
1,2-Dichloropropane	25.0	23.2	93	76-120	
1,3-Dichlorobenzene	25.0	23.0	92	77-120	
1,4-Dichlorobenzene	25.0	23.6	94	80-120	
2-Butanone (MEK)	125	109	87	57-140	
2-Hexanone	125	112	90	65-127	
4-Methyl-2-pentanone (MIBK)	125	107	86	71-125	
Acetone	125	91.8	73	56-142	
Benzene	25.0	22.9	91	71-124	
Bromodichloromethane	25.0	24.9	100	80-122	
Bromoform	25.0	23.0	92	61-132	
Bromomethane	25.0	22.6	91	55-144	
Carbon disulfide	25.0	19.7	79	59-134	
Carbon tetrachloride	25.0	24.1	97	72-134	
Chlorobenzene	25.0	22.6	90	80-120	
Chloroethane	25.0	22.4	90	69-136	
Chloroform	25.0	22.3	89	73-127	
Chloromethane	25.0	20.2	81	68-124	
cis-1,2-Dichloroethene	25.0	22.2	89	74-124	
cis-1,3-Dichloropropene	25.0	23.4	94	74-124	
Cyclohexane	25.0	22.6	91	59-135	
Dibromochloromethane	25.0	24.0	96	75-125	
Dichlorodifluoromethane	25.0	22.1	88	59-135	
Ethylbenzene	25.0	22.2	89	77-123	
Isopropylbenzene	25.0	22.6	91	77-122	
Methyl acetate	125	106	85	74-133	
Methyl tert-butyl ether	25.0	21.7	87	77-120	
Methylcyclohexane	25.0	21.7	87	68-134	
Methylene Chloride	25.0	22.5	90	75-124	
Styrene	25.0	21.7	87	80-120	
Tetrachloroethene	25.0	24.2	97	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N8914.D

Lab ID: LCS 480-325847/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	22.0	88	80-122	
trans-1,2-Dichloroethene	25.0	22.2	89	73-127	
trans-1,3-Dichloropropene	25.0	22.2	89	80-120	
Trichloroethene	25.0	24.6	98	74-123	
Trichlorofluoromethane	25.0	23.2	93	62-150	
Vinyl chloride	25.0	21.5	86	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N8942.D

Lab ID: LCS 480-325887/26 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	27.6	110	73-126	
1,1,2,2-Tetrachloroethane	25.0	20.5	82	76-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	27.8	111	61-148	
1,1,2-Trichloroethane	25.0	23.9	96	76-122	
1,1-Dichloroethane	25.0	23.6	94	77-120	
1,1-Dichloroethene	25.0	24.6	98	66-127	
1,2,4-Trichlorobenzene	25.0	26.1	104	79-122	
1,2-Dibromo-3-Chloropropane	25.0	19.5	78	56-134	
1,2-Dibromoethane	25.0	23.8	95	77-120	
1,2-Dichlorobenzene	25.0	24.7	99	80-124	
1,2-Dichloroethane	25.0	26.7	107	75-120	
1,2-Dichloropropane	25.0	25.0	100	76-120	
1,3-Dichlorobenzene	25.0	24.2	97	77-120	
1,4-Dichlorobenzene	25.0	25.3	101	80-120	
2-Butanone (MEK)	125	113	90	57-140	
2-Hexanone	125	115	92	65-127	
4-Methyl-2-pentanone (MIBK)	125	109	87	71-125	
Acetone	125	98.2	79	56-142	
Benzene	25.0	25.0	100	71-124	
Bromodichloromethane	25.0	26.5	106	80-122	
Bromoform	25.0	23.9	96	61-132	
Bromomethane	25.0	25.7	103	55-144	
Carbon disulfide	25.0	23.9	96	59-134	
Carbon tetrachloride	25.0	28.9	116	72-134	
Chlorobenzene	25.0	24.8	99	80-120	
Chloroethane	25.0	26.1	104	69-136	
Chloroform	25.0	24.9	100	73-127	
Chloromethane	25.0	24.7	99	68-124	
cis-1,2-Dichloroethene	25.0	23.8	95	74-124	
cis-1,3-Dichloropropene	25.0	25.3	101	74-124	
Cyclohexane	25.0	27.4	110	59-135	
Dibromochloromethane	25.0	25.6	102	75-125	
Dichlorodifluoromethane	25.0	34.8	139	59-135	*
Ethylbenzene	25.0	24.5	98	77-123	
Isopropylbenzene	25.0	24.8	99	77-122	
Methyl acetate	125	110	88	74-133	
Methyl tert-butyl ether	25.0	23.5	94	77-120	
Methylcyclohexane	25.0	25.4	102	68-134	
Methylene Chloride	25.0	23.8	95	75-124	
Styrene	25.0	23.5	94	80-120	
Tetrachloroethene	25.0	27.5	110	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N8942.D

Lab ID: LCS 480-325887/26 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	24.5	98	80-122	
trans-1,2-Dichloroethene	25.0	24.5	98	73-127	
trans-1,3-Dichloropropene	25.0	23.5	94	80-120	
Trichloroethene	25.0	27.0	108	74-123	
Trichlorofluoromethane	25.0	31.6	126	62-150	
Vinyl chloride	25.0	27.2	109	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N8970.D

Lab ID: LCS 480-325955/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	25.8	103	73-126	
1,1,2,2-Tetrachloroethane	25.0	20.0	80	76-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.5	98	61-148	
1,1,2-Trichloroethane	25.0	22.6	90	76-122	
1,1-Dichloroethane	25.0	22.2	89	77-120	
1,1-Dichloroethene	25.0	22.3	89	66-127	
1,2,4-Trichlorobenzene	25.0	23.9	96	79-122	
1,2-Dibromo-3-Chloropropane	25.0	17.0	68	56-134	
1,2-Dibromoethane	25.0	22.7	91	77-120	
1,2-Dichlorobenzene	25.0	23.7	95	80-124	
1,2-Dichloroethane	25.0	24.7	99	75-120	
1,2-Dichloropropane	25.0	23.0	92	76-120	
1,3-Dichlorobenzene	25.0	23.3	93	77-120	
1,4-Dichlorobenzene	25.0	23.6	94	80-120	
2-Butanone (MEK)	125	129	103	57-140	
2-Hexanone	125	120	96	65-127	
4-Methyl-2-pentanone (MIBK)	125	104	83	71-125	
Acetone	125	149	119	56-142	
Benzene	25.0	23.5	94	71-124	
Bromodichloromethane	25.0	24.9	100	80-122	
Bromoform	25.0	22.0	88	61-132	
Bromomethane	25.0	24.2	97	55-144	
Carbon disulfide	25.0	19.4	78	59-134	
Carbon tetrachloride	25.0	25.3	101	72-134	
Chlorobenzene	25.0	23.1	93	80-120	
Chloroethane	25.0	25.1	100	69-136	
Chloroform	25.0	23.4	94	73-127	
Chloromethane	25.0	22.3	89	68-124	
cis-1,2-Dichloroethene	25.0	22.2	89	74-124	
cis-1,3-Dichloropropene	25.0	22.9	92	74-124	
Cyclohexane	25.0	23.6	94	59-135	
Dibromochloromethane	25.0	24.1	96	75-125	
Dichlorodifluoromethane	25.0	28.2	113	59-135	
Ethylbenzene	25.0	22.5	90	77-123	
Isopropylbenzene	25.0	23.1	92	77-122	
Methyl acetate	125	103	83	74-133	
Methyl tert-butyl ether	25.0	21.3	85	77-120	
Methylcyclohexane	25.0	23.2	93	68-134	
Methylene Chloride	25.0	22.2	89	75-124	
Styrene	25.0	22.6	90	80-120	
Tetrachloroethene	25.0	26.0	104	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N8970.D

Lab ID: LCS 480-325955/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	22.7	91	80-122	
trans-1,2-Dichloroethene	25.0	22.8	91	73-127	
trans-1,3-Dichloropropene	25.0	21.0	84	80-120	
Trichloroethene	25.0	25.8	103	74-123	
Trichlorofluoromethane	25.0	29.6	118	62-150	
Vinyl chloride	25.0	25.7	103	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N8991.D

Lab ID: 480-107471-11 MS Client ID: A2-PZ-1 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	5000	ND	5190	104	73-126	
1,1,2,2-Tetrachloroethane	5000	ND	3960	79	76-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	5000	180 J	5270	102	61-148	
1,1,2-Trichloroethane	5000	ND	4380	88	76-122	
1,1-Dichloroethane	5000	600	4900	86	77-120	
1,1-Dichloroethene	5000	ND	4510	90	66-127	
1,2,4-Trichlorobenzene	5000	ND	4650	93	79-122	
1,2-Dibromo-3-Chloropropane	5000	ND	3460	69	56-134	
1,2-Dibromoethane	5000	ND	4440	89	77-120	
1,2-Dichlorobenzene	5000	ND	4740	95	80-124	
1,2-Dichloroethane	5000	ND	5000	100	75-120	
1,2-Dichloropropane	5000	ND	4530	91	76-120	
1,3-Dichlorobenzene	5000	ND	4570	91	77-120	
1,4-Dichlorobenzene	5000	ND	4680	94	78-124	
2-Butanone (MEK)	25000	ND	24100	96	57-140	
2-Hexanone	25000	ND	23300	93	65-127	
4-Methyl-2-pentanone (MIBK)	25000	ND	21000	84	71-125	
Acetone	25000	ND	25700	103	56-142	
Benzene	5000	ND	4810	96	71-124	
Bromodichloromethane	5000	ND	4830	97	80-122	
Bromoform	5000	ND	4240	85	61-132	
Bromomethane	5000	ND	5180	104	55-144	
Carbon disulfide	5000	ND	3830	77	59-134	
Carbon tetrachloride	5000	ND	5000	100	72-134	
Chlorobenzene	5000	ND	4670	93	80-120	
Chloroethane	5000	ND	5230	105	69-136	
Chloroform	5000	ND	4550	91	73-127	
Chloromethane	5000	ND	4660	93	68-124	
cis-1,2-Dichloroethene	5000	12000	15000	59	74-124	F1
cis-1,3-Dichloropropene	5000	ND	4430	89	74-124	
Cyclohexane	5000	ND	4870	97	59-135	
Dibromochloromethane	5000	ND	4630	93	75-125	
Dichlorodifluoromethane	5000	ND	6450	129	59-135	
Ethylbenzene	5000	ND	4560	91	77-123	
Isopropylbenzene	5000	ND	4670	93	77-122	
Methyl acetate	25000	ND	20200	81	74-133	
Methyl tert-butyl ether	5000	ND	4320	86	77-120	
Methylcyclohexane	5000	ND	4550	91	68-134	
Methylene Chloride	5000	ND	4580	92	75-124	
Styrene	5000	ND	4490	90	80-120	
Tetrachloroethene	5000	ND	5160	103	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N8991.D

Lab ID: 480-107471-11 MS Client ID: A2-PZ-1 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Toluene	5000	ND	4570	91	80-122	
trans-1,2-Dichloroethene	5000	ND	4630	93	73-127	
trans-1,3-Dichloropropene	5000	ND	4090	82	80-120	
Trichloroethene	5000	530	5550	100	74-123	
Trichlorofluoromethane	5000	ND	5980	120	62-150	
Vinyl chloride	5000	710	5830	102	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N8961.D

Lab ID: 480-107471-12 MS Client ID: A2-PZ-2 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	200	ND	205	102	73-126	
1,1,2,2-Tetrachloroethane	200	ND	155	78	76-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	200	ND	192	96	61-148	
1,1,2-Trichloroethane	200	ND	180	90	76-122	
1,1-Dichloroethane	200	3.4 J	183	90	77-120	
1,1-Dichloroethene	200	ND	176	88	66-127	
1,2,4-Trichlorobenzene	200	ND	181	91	79-122	
1,2-Dibromo-3-Chloropropane	200	ND	133	66	56-134	
1,2-Dibromoethane	200	ND	181	91	77-120	
1,2-Dichlorobenzene	200	ND	188	94	80-124	
1,2-Dichloroethane	200	ND	204	102	75-120	
1,2-Dichloropropane	200	ND	181	90	76-120	
1,3-Dichlorobenzene	200	ND	187	94	77-120	
1,4-Dichlorobenzene	200	ND	193	97	78-124	
2-Butanone (MEK)	1000	ND	900	90	57-140	
2-Hexanone	1000	ND	867	87	65-127	
4-Methyl-2-pentanone (MIBK)	1000	ND	803	80	71-125	
Acetone	1000	ND	831	83	56-142	
Benzene	200	ND	191	96	71-124	
Bromodichloromethane	200	ND	194	97	80-122	
Bromoform	200	ND	155	77	61-132	
Bromomethane	200	ND	195	98	55-144	
Carbon disulfide	200	ND	152	76	59-134	
Carbon tetrachloride	200	ND	205	103	72-134	
Chlorobenzene	200	ND	187	94	80-120	
Chloroethane	200	ND	202	101	69-136	
Chloroform	200	ND	183	92	73-127	
Chloromethane	200	ND	176	88	68-124	
cis-1,2-Dichloroethene	200	82	244	81	74-124	
cis-1,3-Dichloropropene	200	ND	169	84	74-124	
Cyclohexane	200	ND	195	98	59-135	
Dibromochloromethane	200	ND	180	90	75-125	
Dichlorodifluoromethane	200	ND	229	115	59-135	
Ethylbenzene	200	ND	184	92	77-123	
Isopropylbenzene	200	ND	190	95	77-122	
Methyl acetate	1000	ND	788	79	74-133	
Methyl tert-butyl ether	200	ND	168	84	77-120	
Methylcyclohexane	200	ND	183	92	68-134	
Methylene Chloride	200	ND	178	89	75-124	
Styrene	200	ND	176	88	80-120	
Tetrachloroethene	200	400	555	77	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N8961.D

Lab ID: 480-107471-12 MS Client ID: A2-PZ-2 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Toluene	200	ND	182	91	80-122	
trans-1,2-Dichloroethene	200	ND	186	93	73-127	
trans-1,3-Dichloropropene	200	ND	166	83	80-120	
Trichloroethene	200	230	382	78	74-123	
Trichlorofluoromethane	200	ND	235	118	62-150	
Vinyl chloride	200	ND	207	104	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P1435.D

Lab ID: 480-107471-14 MS Client ID: MW-2MS MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	ND	34.8	139	73-126	F1
1,1,2,2-Tetrachloroethane	25.0	ND	23.2	93	76-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	ND	33.2	133	61-148	
1,1,2-Trichloroethane	25.0	ND	26.7	107	76-122	
1,1-Dichloroethane	25.0	3.9	32.4	114	77-120	
1,1-Dichloroethene	25.0	ND	31.1	124	66-127	
1,2,4-Trichlorobenzene	25.0	ND	23.6	94	79-122	
1,2-Dibromo-3-Chloropropane	25.0	ND	21.7	87	56-134	
1,2-Dibromoethane	25.0	ND	27.5	110	77-120	
1,2-Dichlorobenzene	25.0	ND	26.1	104	80-124	
1,2-Dichloroethane	25.0	ND	32.3	129	75-120	F1
1,2-Dichloropropane	25.0	ND	26.1	104	76-120	
1,3-Dichlorobenzene	25.0	ND	25.5	102	77-120	
1,4-Dichlorobenzene	25.0	ND	26.1	104	78-124	
2-Butanone (MEK)	125	ND	115	92	57-140	
2-Hexanone	125	ND	121	97	65-127	
4-Methyl-2-pentanone (MIBK)	125	ND	115	92	71-125	
Acetone	125	ND	135	108	56-142	
Benzene	25.0	ND	28.0	112	71-124	
Bromodichloromethane	25.0	ND	31.3	125	80-122	F1
Bromoform	25.0	ND	27.8	111	61-132	
Bromomethane	25.0	ND	46.9	188	55-144	F1
Carbon disulfide	25.0	ND	34.5	138	59-134	F1
Carbon tetrachloride	25.0	ND	38.6	154	72-134	F1
Chlorobenzene	25.0	ND	28.7	115	80-120	
Chloroethane	25.0	ND	38.7	155	69-136	F1
Chloroform	25.0	ND	31.9	128	73-127	F1
Chloromethane	25.0	ND	24.6	98	68-124	
cis-1,2-Dichloroethene	25.0	6.4	36.2	119	74-124	
cis-1,3-Dichloropropene	25.0	ND	25.2	101	74-124	
Cyclohexane	25.0	ND	26.3	105	59-135	
Dibromochloromethane	25.0	ND	30.2	121	75-125	
Dichlorodifluoromethane	25.0	ND	28.7	115	59-135	
Ethylbenzene	25.0	ND	27.9	112	77-123	
Isopropylbenzene	25.0	ND	23.7	95	77-122	
Methyl acetate	125	ND	114	91	74-133	
Methyl tert-butyl ether	25.0	ND	27.4	110	77-120	
Methylcyclohexane	25.0	ND	24.7	99	68-134	
Methylene Chloride	25.0	ND	29.8	119	75-124	
Styrene	25.0	ND	26.5	106	80-120	
Tetrachloroethene	25.0	ND	30.2	121	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P1435.D

Lab ID: 480-107471-14 MS Client ID: MW-2MS MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Toluene	25.0	ND	26.1	104	80-122	
trans-1,2-Dichloroethene	25.0	1.5	31.7	121	73-127	
trans-1,3-Dichloropropene	25.0	ND	27.1	108	80-120	
Trichloroethene	25.0	ND	29.2	117	74-123	
Trichlorofluoromethane	25.0	ND	39.4	158	62-150	F1
Vinyl chloride	25.0	12	39.7	110	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N8992.D

Lab ID: 480-107471-11 MSD Client ID: A2-PZ-1 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	5000	4880	98	6	15	73-126	
1,1,2,2-Tetrachloroethane	5000	3880	78	2	15	76-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	5000	4710	91	11	20	61-148	
1,1,2-Trichloroethane	5000	4160	83	5	15	76-122	
1,1-Dichloroethane	5000	4750	83	3	20	77-120	
1,1-Dichloroethene	5000	4190	84	7	16	66-127	
1,2,4-Trichlorobenzene	5000	4590	92	1	20	79-122	
1,2-Dibromo-3-Chloropropane	5000	3510	70	2	15	56-134	
1,2-Dibromoethane	5000	4450	89	0	15	77-120	
1,2-Dichlorobenzene	5000	4610	92	3	20	80-124	
1,2-Dichloroethane	5000	4810	96	4	20	75-120	
1,2-Dichloropropane	5000	4530	91	0	20	76-120	
1,3-Dichlorobenzene	5000	4540	91	1	20	77-120	
1,4-Dichlorobenzene	5000	4610	92	2	20	78-124	
2-Butanone (MEK)	25000	23100	92	4	20	57-140	
2-Hexanone	25000	23500	94	1	15	65-127	
4-Methyl-2-pentanone (MIBK)	25000	21100	84	0	35	71-125	
Acetone	25000	23400	93	10	15	56-142	
Benzene	5000	4480	90	7	13	71-124	
Bromodichloromethane	5000	4670	93	3	15	80-122	
Bromoform	5000	4200	84	1	15	61-132	
Bromomethane	5000	4890	98	6	15	55-144	
Carbon disulfide	5000	3760	75	2	15	59-134	
Carbon tetrachloride	5000	4860	97	3	15	72-134	
Chlorobenzene	5000	4520	90	3	25	80-120	
Chloroethane	5000	4840	97	8	15	69-136	
Chloroform	5000	4350	87	5	20	73-127	
Chloromethane	5000	4460	89	4	15	68-124	
cis-1,2-Dichloroethene	5000	14600	50	3	15	74-124	F1
cis-1,3-Dichloropropene	5000	4310	86	3	15	74-124	
Cyclohexane	5000	4540	91	7	20	59-135	
Dibromochloromethane	5000	4530	91	2	15	75-125	
Dichlorodifluoromethane	5000	5560	111	15	20	59-135	
Ethylbenzene	5000	4330	87	5	15	77-123	
Isopropylbenzene	5000	4460	89	4	20	77-122	
Methyl acetate	25000	20900	84	3	20	74-133	
Methyl tert-butyl ether	5000	4250	85	2	37	77-120	
Methylcyclohexane	5000	4440	89	2	20	68-134	
Methylene Chloride	5000	4350	87	5	15	75-124	
Styrene	5000	4420	88	2	20	80-120	
Tetrachloroethene	5000	5020	100	3	20	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N8992.D

Lab ID: 480-107471-11 MSD Client ID: A2-PZ-1 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Toluene	5000	4370	87	4	15	80-122	
trans-1,2-Dichloroethene	5000	4370	87	6	20	73-127	
trans-1,3-Dichloropropene	5000	4170	83	2	15	80-120	
Trichloroethene	5000	5320	96	4	16	74-123	
Trichlorofluoromethane	5000	5510	110	8	20	62-150	
Vinyl chloride	5000	5370	93	8	15	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N8962.D

Lab ID: 480-107471-12 MSD Client ID: A2-PZ-2 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	200	203	102	1	15	73-126	
1,1,2,2-Tetrachloroethane	200	159	79	2	15	76-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	200	191	95	1	20	61-148	
1,1,2-Trichloroethane	200	180	90	0	15	76-122	
1,1-Dichloroethane	200	179	88	2	20	77-120	
1,1-Dichloroethene	200	177	88	1	16	66-127	
1,2,4-Trichlorobenzene	200	202	101	11	20	79-122	
1,2-Dibromo-3-Chloropropane	200	142	71	7	15	56-134	
1,2-Dibromoethane	200	183	92	1	15	77-120	
1,2-Dichlorobenzene	200	190	95	1	20	80-124	
1,2-Dichloroethane	200	197	99	3	20	75-120	
1,2-Dichloropropane	200	188	94	4	20	76-120	
1,3-Dichlorobenzene	200	186	93	0	20	77-120	
1,4-Dichlorobenzene	200	191	95	1	20	78-124	
2-Butanone (MEK)	1000	906	91	1	20	57-140	
2-Hexanone	1000	890	89	3	15	65-127	
4-Methyl-2-pentanone (MIBK)	1000	819	82	2	35	71-125	
Acetone	1000	842	84	1	15	56-142	
Benzene	200	187	93	2	13	71-124	
Bromodichloromethane	200	192	96	1	15	80-122	
Bromoform	200	155	77	0	15	61-132	
Bromomethane	200	195	98	0	15	55-144	
Carbon disulfide	200	150	75	2	15	59-134	
Carbon tetrachloride	200	205	102	0	15	72-134	
Chlorobenzene	200	183	91	3	25	80-120	
Chloroethane	200	203	102	1	15	69-136	
Chloroform	200	178	89	3	20	73-127	
Chloromethane	200	177	89	1	15	68-124	
cis-1,2-Dichloroethene	200	245	81	0	15	74-124	
cis-1,3-Dichloropropene	200	170	85	1	15	74-124	
Cyclohexane	200	192	96	2	20	59-135	
Dibromochloromethane	200	176	88	2	15	75-125	
Dichlorodifluoromethane	200	230	115	0	20	59-135	
Ethylbenzene	200	183	91	1	15	77-123	
Isopropylbenzene	200	187	94	1	20	77-122	
Methyl acetate	1000	807	81	2	20	74-133	
Methyl tert-butyl ether	200	167	84	0	37	77-120	
Methylcyclohexane	200	182	91	1	20	68-134	
Methylene Chloride	200	173	87	3	15	75-124	
Styrene	200	177	88	0	20	80-120	
Tetrachloroethene	200	535	67	4	20	74-122	F1

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N8962.D

Lab ID: 480-107471-12 MSD Client ID: A2-PZ-2 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Toluene	200	182	91	0	15	80-122	
trans-1,2-Dichloroethene	200	179	90	4	20	73-127	
trans-1,3-Dichloropropene	200	164	82	1	15	80-120	
Trichloroethene	200	381	78	0	16	74-123	
Trichlorofluoromethane	200	236	118	0	20	62-150	
Vinyl chloride	200	200	100	4	15	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P1436.D

Lab ID: 480-107471-14 MSD Client ID: MW-2MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	33.9	136	3	15	73-126	F1
1,1,2,2-Tetrachloroethane	25.0	23.4	94	1	15	76-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	30.5	122	8	20	61-148	
1,1,2-Trichloroethane	25.0	26.5	106	1	15	76-122	
1,1-Dichloroethane	25.0	32.3	113	0	20	77-120	
1,1-Dichloroethene	25.0	30.6	122	2	16	66-127	
1,2,4-Trichlorobenzene	25.0	23.8	95	1	20	79-122	
1,2-Dibromo-3-Chloropropane	25.0	21.5	86	1	15	56-134	
1,2-Dibromoethane	25.0	27.0	108	2	15	77-120	
1,2-Dichlorobenzene	25.0	25.9	103	1	20	80-124	
1,2-Dichloroethane	25.0	31.9	128	1	20	75-120	F1
1,2-Dichloropropane	25.0	26.6	106	2	20	76-120	
1,3-Dichlorobenzene	25.0	25.5	102	0	20	77-120	
1,4-Dichlorobenzene	25.0	25.9	104	1	20	78-124	
2-Butanone (MEK)	125	115	92	0	20	57-140	
2-Hexanone	125	122	97	1	15	65-127	
4-Methyl-2-pentanone (MIBK)	125	117	93	2	35	71-125	
Acetone	125	134	107	1	15	56-142	
Benzene	25.0	27.6	110	2	13	71-124	
Bromodichloromethane	25.0	30.7	123	2	15	80-122	F1
Bromoform	25.0	27.6	110	1	15	61-132	
Bromomethane	25.0	45.4	182	3	15	55-144	F1
Carbon disulfide	25.0	33.8	135	2	15	59-134	F1
Carbon tetrachloride	25.0	37.6	151	2	15	72-134	F1
Chlorobenzene	25.0	28.3	113	2	25	80-120	
Chloroethane	25.0	37.5	150	3	15	69-136	F1
Chloroform	25.0	30.8	123	3	20	73-127	
Chloromethane	25.0	24.7	99	0	15	68-124	
cis-1,2-Dichloroethene	25.0	36.3	120	0	15	74-124	
cis-1,3-Dichloropropene	25.0	25.6	102	2	15	74-124	
Cyclohexane	25.0	26.0	104	1	20	59-135	
Dibromochloromethane	25.0	30.0	120	1	15	75-125	
Dichlorodifluoromethane	25.0	26.2	105	9	20	59-135	
Ethylbenzene	25.0	28.1	113	1	15	77-123	
Isopropylbenzene	25.0	24.3	97	2	20	77-122	
Methyl acetate	125	112	90	2	20	74-133	
Methyl tert-butyl ether	25.0	27.7	111	1	37	77-120	
Methylcyclohexane	25.0	23.9	96	3	20	68-134	
Methylene Chloride	25.0	29.0	116	3	15	75-124	
Styrene	25.0	26.3	105	1	20	80-120	
Tetrachloroethene	25.0	29.4	118	3	20	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P1436.D

Lab ID: 480-107471-14 MSD Client ID: MW-2MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Toluene	25.0	26.2	105	0	15	80-122	
trans-1,2-Dichloroethene	25.0	31.2	119	2	20	73-127	
trans-1,3-Dichloropropene	25.0	27.1	108	0	15	80-120	
Trichloroethene	25.0	28.1	113	4	16	74-123	
Trichlorofluoromethane	25.0	36.3	145	8	20	62-150	
Vinyl chloride	25.0	39.8	111	0	15	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Lab File ID: P1394.D Lab Sample ID: MB 480-325584/6

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

Instrument ID: HP5973P Date Analyzed: 10/14/2016 11:27

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 480-325584/4	P1392.D	10/14/2016 10:10
TRIP BLANK	480-107471-1	P1400.D	10/14/2016 14:32
MW-3	480-107471-2	P1401.D	10/14/2016 14:59
MW-1	480-107471-3	P1402.D	10/14/2016 15:26
PZ-6	480-107471-8	P1404.D	10/14/2016 16:21
MW-2	480-107471-14	P1405.D	10/14/2016 16:48
MW-4	480-107471-15	P1406.D	10/14/2016 17:15
MW-1-S/D	480-107471-17	P1407.D	10/14/2016 17:42

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Lab File ID: P1418.D Lab Sample ID: MB 480-325765/6

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

Instrument ID: HP5973P Date Analyzed: 10/14/2016 23:05

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 480-325765/4	P1416.D	10/14/2016 22:10
PZ-5	480-107471-7	P1428.D	10/15/2016 03:52
MW-2MS MS	480-107471-14 MS	P1435.D	10/15/2016 07:04
MW-2MSD MSD	480-107471-14 MSD	P1436.D	10/15/2016 07:31

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Lab File ID: N8916.D Lab Sample ID: MB 480-325847/6

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

Instrument ID: HP5973N Date Analyzed: 10/15/2016 19:23

GC Column: ZB-624 (20) ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-325847/4	N8914.D	10/15/2016 18:29
MW-18	480-107471-4	N8918.D	10/15/2016 20:28
MW-20	480-107471-5	N8919.D	10/15/2016 20:55
MW-21	480-107471-6	N8920.D	10/15/2016 21:22
PZ-11R	480-107471-9	N8921.D	10/15/2016 21:49
PZ-13R	480-107471-10	N8922.D	10/15/2016 22:15
A2-PZ-1	480-107471-11	N8923.D	10/15/2016 22:42
A1-PZ-2	480-107471-13	N8925.D	10/15/2016 23:36
MW-10	480-107471-16	N8926.D	10/16/2016 00:03

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Lab File ID: N8944.D Lab Sample ID: MB 480-325887/6

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

Instrument ID: HP5973N Date Analyzed: 10/16/2016 21:09

GC Column: ZB-624 (20) ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-325887/26	N8942.D	10/16/2016 20:15
A2-PZ-2	480-107471-12	N8946.D	10/16/2016 22:21
A2-PZ-2 MS	480-107471-12 MS	N8961.D	10/17/2016 05:02
A2-PZ-2 MSD	480-107471-12 MSD	N8962.D	10/17/2016 05:29

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Lab File ID: N8972.D Lab Sample ID: MB 480-325955/7

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

Instrument ID: HP5973N Date Analyzed: 10/17/2016 10:21

GC Column: ZB-624 (20) ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-325955/5	N8970.D	10/17/2016 09:27
A2-PZ-1 DL	480-107471-11 DL	N8973.D	10/17/2016 11:03
A2-PZ-1 MS	480-107471-11 MS	N8991.D	10/17/2016 19:05
A2-PZ-1 MSD	480-107471-11 MSD	N8992.D	10/17/2016 19:32

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

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Lab File ID: N8453.D BFB Injection Date: 10/05/2016

Instrument ID: HP5973N BFB Injection Time: 21:59

Analysis Batch No.: 324022

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.2	
75	30.0 - 60.0 % of mass 95	48.9	
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	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	101.1	
175	5.0 - 9.0 % of mass 174	8.3	(8.2) 1
176	95.0 - 101.0 % of mass 174	96.7	(95.7) 1
177	5.0 - 9.0 % of mass 176	6.1	(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 480-324022/4	N8455.D	10/05/2016	22:54
	IC 480-324022/5	N8456.D	10/05/2016	23:21
	IC 480-324022/6	N8457.D	10/05/2016	23:48
	IC 480-324022/7	N8458.D	10/06/2016	00:14
	IC 480-324022/8	N8459.D	10/06/2016	00:41
	ICIS 480-324022/9	N8460.D	10/06/2016	01:08
	IC 480-324022/10	N8461.D	10/06/2016	01:35
	IC 480-324022/11	N8462.D	10/06/2016	02:01

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

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Lab File ID: N8911.D BFB Injection Date: 10/15/2016

Instrument ID: HP5973N BFB Injection Time: 17:03

Analysis Batch No.: 325847

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	23.5	
75	30.0 - 60.0 % of mass 95	46.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.8	(0.8) 1
174	50.0 - 120.00 % of mass 95	108.2	
175	5.0 - 9.0 % of mass 174	8.8	(8.1) 1
176	95.0 - 101.0 % of mass 174	105.0	(97.0) 1
177	5.0 - 9.0 % of mass 176	6.3	(6.0) 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 480-325847/2	N8912.D	10/15/2016	17:32
	LCS 480-325847/4	N8914.D	10/15/2016	18:29
	MB 480-325847/6	N8916.D	10/15/2016	19:23
MW-18	480-107471-4	N8918.D	10/15/2016	20:28
MW-20	480-107471-5	N8919.D	10/15/2016	20:55
MW-21	480-107471-6	N8920.D	10/15/2016	21:22
PZ-11R	480-107471-9	N8921.D	10/15/2016	21:49
PZ-13R	480-107471-10	N8922.D	10/15/2016	22:15
A2-PZ-1	480-107471-11	N8923.D	10/15/2016	22:42
A1-PZ-2	480-107471-13	N8925.D	10/15/2016	23:36
MW-10	480-107471-16	N8926.D	10/16/2016	00:03

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

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Lab File ID: N8938.D BFB Injection Date: 10/16/2016

Instrument ID: HP5973N BFB Injection Time: 18:20

Analysis Batch No.: 325887

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	21.0
75	30.0 - 60.0 % of mass 95	49.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.7
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	103.0
175	5.0 - 9.0 % of mass 174	8.0 (7.8) 1
176	95.0 - 101.0 % of mass 174	103.2 (100.3) 1
177	5.0 - 9.0 % of mass 176	6.1 (5.9) 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 480-325887/4	N8941.D	10/16/2016	19:49
	LCS 480-325887/26	N8942.D	10/16/2016	20:15
	MB 480-325887/6	N8944.D	10/16/2016	21:09
A2-PZ-2	480-107471-12	N8946.D	10/16/2016	22:21
A2-PZ-2 MS	480-107471-12 MS	N8961.D	10/17/2016	05:02
A2-PZ-2 MSD	480-107471-12 MSD	N8962.D	10/17/2016	05:29

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

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Lab File ID: N8967.D BFB Injection Date: 10/17/2016

Instrument ID: HP5973N BFB Injection Time: 08:10

Analysis Batch No.: 325955

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.4	
75	30.0 - 60.0 % of mass 95	49.5	
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	1.3	(1.3) 1
174	50.0 - 120.00 % of mass 95	103.0	
175	5.0 - 9.0 % of mass 174	8.6	(8.4) 1
176	95.0 - 101.0 % of mass 174	100.5	(97.6) 1
177	5.0 - 9.0 % of mass 176	6.7	(6.7) 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 480-325955/3	N8968.D	10/17/2016	08:33
	LCS 480-325955/5	N8970.D	10/17/2016	09:27
	MB 480-325955/7	N8972.D	10/17/2016	10:21
A2-PZ-1 DL	480-107471-11 DL	N8973.D	10/17/2016	11:03
A2-PZ-1 MS	480-107471-11 MS	N8991.D	10/17/2016	19:05
A2-PZ-1 MSD	480-107471-11 MSD	N8992.D	10/17/2016	19:32

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

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Lab File ID: P0157.D BFB Injection Date: 09/15/2016

Instrument ID: HP5973P BFB Injection Time: 14:06

Analysis Batch No.: 320502

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.9	
75	30.0 - 60.0 % of mass 95	46.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.4	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	86.7	
175	5.0 - 9.0 % of mass 174	6.9	(8.0) 1
176	95.0 - 101.0 % of mass 174	83.5	(96.3) 1
177	5.0 - 9.0 % of mass 176	5.5	(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 480-320502/5	P0159.D	09/15/2016	15:01
	IC 480-320502/6	P0160.D	09/15/2016	15:28
	IC 480-320502/7	P0161.D	09/15/2016	15:55
	IC 480-320502/8	P0162.D	09/15/2016	16:23
	ICIS 480-320502/9	P0163.D	09/15/2016	16:50
	IC 480-320502/10	P0164.D	09/15/2016	17:17
	IC 480-320502/11	P0165.D	09/15/2016	17:44

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

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Lab File ID: P1389.D BFB Injection Date: 10/14/2016

Instrument ID: HP5973P BFB Injection Time: 08:49

Analysis Batch No.: 325584

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.5	
75	30.0 - 60.0 % of mass 95	47.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	82.2	
175	5.0 - 9.0 % of mass 174	6.9	(8.3) 1
176	95.0 - 101.0 % of mass 174	80.5	(98.0) 1
177	5.0 - 9.0 % of mass 176	6.5	(8.0) 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 480-325584/2	P1390.D	10/14/2016	09:16
	LCS 480-325584/4	P1392.D	10/14/2016	10:10
	MB 480-325584/6	P1394.D	10/14/2016	11:27
TRIP BLANK	480-107471-1	P1400.D	10/14/2016	14:32
MW-3	480-107471-2	P1401.D	10/14/2016	14:59
MW-1	480-107471-3	P1402.D	10/14/2016	15:26
PZ-6	480-107471-8	P1404.D	10/14/2016	16:21
MW-2	480-107471-14	P1405.D	10/14/2016	16:48
MW-4	480-107471-15	P1406.D	10/14/2016	17:15
MW-1-S/D	480-107471-17	P1407.D	10/14/2016	17:42

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

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Lab File ID: P1413.D BFB Injection Date: 10/14/2016

Instrument ID: HP5973P BFB Injection Time: 20:39

Analysis Batch No.: 325765

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	23.5	
75	30.0 - 60.0 % of mass 95	49.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.9	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	85.1	
175	5.0 - 9.0 % of mass 174	6.4	(7.5) 1
176	95.0 - 101.0 % of mass 174	81.0	(95.2) 1
177	5.0 - 9.0 % of mass 176	5.6	(7.0) 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 480-325765/2	P1414.D	10/14/2016	21:15
	LCS 480-325765/4	P1416.D	10/14/2016	22:10
	MB 480-325765/6	P1418.D	10/14/2016	23:05
PZ-5	480-107471-7	P1428.D	10/15/2016	03:52
MW-2MS MS	480-107471-14 MS	P1435.D	10/15/2016	07:04
MW-2MSD MSD	480-107471-14 MSD	P1436.D	10/15/2016	07:31

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

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Sample No.: ICIS 480-324022/9 Date Analyzed: 10/06/2016 01:08

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm)

Lab File ID (Standard): N8460.D Heated Purge: (Y/N) N

Calibration ID: 28524

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		111316	5.53	451628	8.53	270410	10.91
UPPER LIMIT		222632	6.03	903256	9.03	540820	11.41
LOWER LIMIT		55658	5.03	225814	8.03	135205	10.41
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-325847/2		111729	5.53	466312	8.53	257077	10.91
CCVIS 480-325887/4		111369	5.53	455301	8.53	267161	10.91
CCVIS 480-325955/3		104543	5.53	435767	8.53	258573	10.91

FB = Fluorobenzene (IS)
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Sample No.: CCVIS 480-325847/2 Date Analyzed: 10/15/2016 17:32

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm)

Lab File ID (Standard): N8912.D Heated Purge: (Y/N) N

Calibration ID: 28528

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		111729	5.53	466312	8.53	257077	10.91
UPPER LIMIT		223458	6.03	932624	9.03	514154	11.41
LOWER LIMIT		55865	5.03	233156	8.03	128539	10.41
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-325847/4		105233	5.53	442874	8.53	252100	10.91
MB 480-325847/6		101549	5.53	424606	8.53	231340	10.91
480-107471-4	MW-18	101850	5.53	398934	8.53	228034	10.91
480-107471-5	MW-20	96986	5.53	410546	8.53	231626	10.91
480-107471-6	MW-21	96938	5.53	403159	8.53	226653	10.91
480-107471-9	PZ-11R	97778	5.53	415160	8.53	228878	10.91
480-107471-10	PZ-13R	103845	5.53	409040	8.53	231611	10.91
480-107471-11	A2-PZ-1	103074	5.53	432323	8.53	236932	10.91
480-107471-13	A1-PZ-2	96137	5.53	396809	8.53	215547	10.91
480-107471-16	MW-10	92532	5.53	387205	8.53	221869	10.91

FB = Fluorobenzene (IS)
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Sample No.: CCVIS 480-325887/4 Date Analyzed: 10/16/2016 19:49

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm)

Lab File ID (Standard): N8941.D Heated Purge: (Y/N) N

Calibration ID: 28528

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		111369	5.53	455301	8.53	267161	10.91
UPPER LIMIT		222738	6.03	910602	9.03	534322	11.41
LOWER LIMIT		55685	5.03	227651	8.03	133581	10.41
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-325887/26		104419	5.53	438958	8.53	257336	10.91
MB 480-325887/6		95341	5.53	401281	8.53	236450	10.91
480-107471-12	A2-PZ-2	92712	5.53	415383	8.53	233107	10.91
480-107471-12 MS	A2-PZ-2 MS	105820	5.53	435499	8.53	249593	10.91
480-107471-12 MSD	A2-PZ-2 MSD	105619	5.53	444240	8.53	254414	10.91

FB = Fluorobenzene (IS)
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Sample No.: CCVIS 480-325955/3 Date Analyzed: 10/17/2016 08:33

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm)

Lab File ID (Standard): N8968.D Heated Purge: (Y/N) N

Calibration ID: 28528

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		104543	5.53	435767	8.53	258573	10.91
UPPER LIMIT		209086	6.03	871534	9.03	517146	11.41
LOWER LIMIT		52272	5.03	217884	8.03	129287	10.41
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-325955/5		100302	5.53	423402	8.53	243653	10.91
MB 480-325955/7		95704	5.53	401184	8.53	225297	10.91
480-107471-11 DL	A2-PZ-1 DL	95454	5.53	396466	8.53	229418	10.91
480-107471-11 MS	A2-PZ-1 MS	98640	5.53	410870	8.53	246226	10.91
480-107471-11 MSD	A2-PZ-1 MSD	103956	5.53	434947	8.53	252414	10.91

FB = Fluorobenzene (IS)
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Sample No.: ICIS 480-320502/9 Date Analyzed: 09/15/2016 16:50

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm)

Lab File ID (Standard): P0163.D Heated Purge: (Y/N) N

Calibration ID: 28332

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		153518	9.83	307919	13.76	325473	16.76
UPPER LIMIT		307036	10.33	615838	14.26	650946	17.26
LOWER LIMIT		76759	9.33	153960	13.26	162737	16.26
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-325584/2		118471	9.82	238258	13.76	273513	16.75
CCVIS 480-325765/2		113470	9.82	222483	13.76	259199	16.75

FB = Fluorobenzene (IS)
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Sample No.: CCVIS 480-325584/2 Date Analyzed: 10/14/2016 09:16

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm)

Lab File ID (Standard): P1390.D Heated Purge: (Y/N) N

Calibration ID: 28334

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		118471	9.82	238258	13.76	273513	16.75
UPPER LIMIT		236942	10.32	476516	14.26	547026	17.25
LOWER LIMIT		59236	9.32	119129	13.26	136757	16.25
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-325584/4		115818	9.83	237806	13.76	271434	16.75
MB 480-325584/6		115789	9.82	230613	13.76	262629	16.75
480-107471-1	TRIP BLANK	99467	9.83	209077	13.76	237503	16.75
480-107471-2	MW-3	98370	9.82	207471	13.76	236658	16.75
480-107471-3	MW-1	97140	9.82	201534	13.76	234362	16.75
480-107471-8	PZ-6	97198	9.82	197985	13.76	233915	16.75
480-107471-14	MW-2	92185	9.82	195648	13.76	228658	16.75
480-107471-15	MW-4	96205	9.83	194826	13.76	227450	16.75
480-107471-17	MW-1-S/D	92817	9.83	194660	13.76	222222	16.75

FB = Fluorobenzene (IS)
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Sample No.: CCVIS 480-325765/2 Date Analyzed: 10/14/2016 21:15

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm)

Lab File ID (Standard): P1414.D Heated Purge: (Y/N) N

Calibration ID: 28334

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		113470	9.82	222483	13.76	259199	16.75
UPPER LIMIT		226940	10.32	444966	14.26	518398	17.25
LOWER LIMIT		56735	9.32	111242	13.26	129600	16.25
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-325765/4		110837	9.82	221566	13.76	259514	16.75
MB 480-325765/6		99937	9.82	205316	13.76	237665	16.75
480-107471-7	PZ-5	86551	9.83	182916	13.76	210509	16.75
480-107471-14 MS	MW-2MS MS	91802	9.83	192393	13.76	235970	16.75
480-107471-14 MSD	MW-2MSD MSD	100735	9.83	206837	13.76	248681	16.75

FB = Fluorobenzene (IS)
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM VIII 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1
SDG No.:
Client Sample ID: TRIP BLANK | Lab Sample ID: 480-107471-1
Matrix: Water | Lab File ID: P1400.D
Analysis Method: 8260C | Date Collected: 10/10/2016 12:00
Sample wt/vol: 5(mL) | Date Analyzed: 10/14/2016 14:32
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.: 325584 | 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.: 480-107471-1

SDG No.:

Client Sample ID: TRIP BLANK | Lab Sample ID: 480-107471-1

Matrix: Water | Lab File ID: P1400.D

Analysis Method: 8260C | Date Collected: 10/10/2016 12:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/14/2016 14:32

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.: 325584 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
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)	109		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
2037-26-5	Toluene-d8 (Surr)	95		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1400.D
Lims ID: 480-107471-A-1
Client ID: TRIP BLANK
Sample Type: Client
Inject. Date: 14-Oct-2016 14:32:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-107471-A-1
Misc. Info.: 480-0057262-012
Operator ID: RF Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Oct-2016 16:35:42 Calib Date: 15-Sep-2016 21:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK014

First Level Reviewer: youngmans Date: 14-Oct-2016 16:35:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.827	9.821	0.006	98	99467	25.0	
* 2 Chlorobenzene-d5	82	13.763	13.764	-0.001	87	209077	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.750	16.751	-0.001	97	237503	25.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.450	9.456	-0.006	0	86588	27.2	
$ 5 Toluene-d8 (Surr)	98	11.798	11.799	-0.001	94	442735	23.8	
$ 6 4-Bromofluorobenzene (Surr	174	15.278	15.278	0.000	89	158433	24.9	
10 Dichlorodifluoromethane	85		3.981				ND	
11 Chloromethane	50		4.316				ND	
17 Vinyl chloride	62		4.529				ND	
12 Bromomethane	94		5.082				ND	
13 Chloroethane	64		5.204				ND	
14 Trichlorofluoromethane	101		5.605				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.244				ND	
25 1,1-Dichloroethene	96		6.287				ND	
24 Acetone	43		6.323				ND	
27 Carbon disulfide	76		6.664				ND	
30 Methyl acetate	43		6.700				ND	
31 Methylene Chloride	84		6.907				ND	
32 Methyl tert-butyl ether	73		7.163				ND	
35 trans-1,2-Dichloroethene	96		7.230				ND	
40 1,1-Dichloroethane	63		7.753				ND	
44 2-Butanone (MEK)	43		8.398				ND	
43 cis-1,2-Dichloroethene	96		8.452				ND	
49 Chloroform	83		8.805				ND	
52 1,1,1-Trichloroethane	97		9.067				ND	
54 Cyclohexane	56		9.134				ND	
55 Carbon tetrachloride	117		9.268				ND	
57 Benzene	78		9.517				ND	
60 1,2-Dichloroethane	62		9.541				ND	
62 Trichloroethene	95		10.265				ND	
64 Methylcyclohexane	83		10.509				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
63 1,2-Dichloropropane	63		10.582				ND	
70 Dichlorobromomethane	83		10.904				ND	
73 cis-1,3-Dichloropropene	75		11.446				ND	
75 4-Methyl-2-pentanone (MIBK	43		11.555				ND	
76 Toluene	92		11.884				ND	
78 trans-1,3-Dichloropropene	75		12.145				ND	
79 1,1,2-Trichloroethane	83		12.431				ND	
80 Tetrachloroethene	166		12.632				ND	
83 2-Hexanone	43		12.638				ND	
81 Chlorodibromomethane	129		13.009				ND	
85 Ethylene Dibromide	107		13.210				ND	
87 Chlorobenzene	112		13.800				ND	
89 Ethylbenzene	91		13.867				ND	
90 m-Xylene & p-Xylene	106		14.007				ND	
93 o-Xylene	106		14.560				ND	
94 Styrene	104		14.573				ND	
92 Bromoform	173		14.931				ND	
95 Isopropylbenzene	105		14.998				ND	
97 1,1,2,2-Tetrachloroethane	83		15.424				ND	
110 1,3-Dichlorobenzene	146		16.677				ND	
111 1,4-Dichlorobenzene	146		16.781				ND	
116 1,2-Dichlorobenzene	146		17.268				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.241				ND	
119 1,2,4-Trichlorobenzene	180		19.318				ND	
S 126 Xylenes, Total	1		30.000				ND	

Reagents:

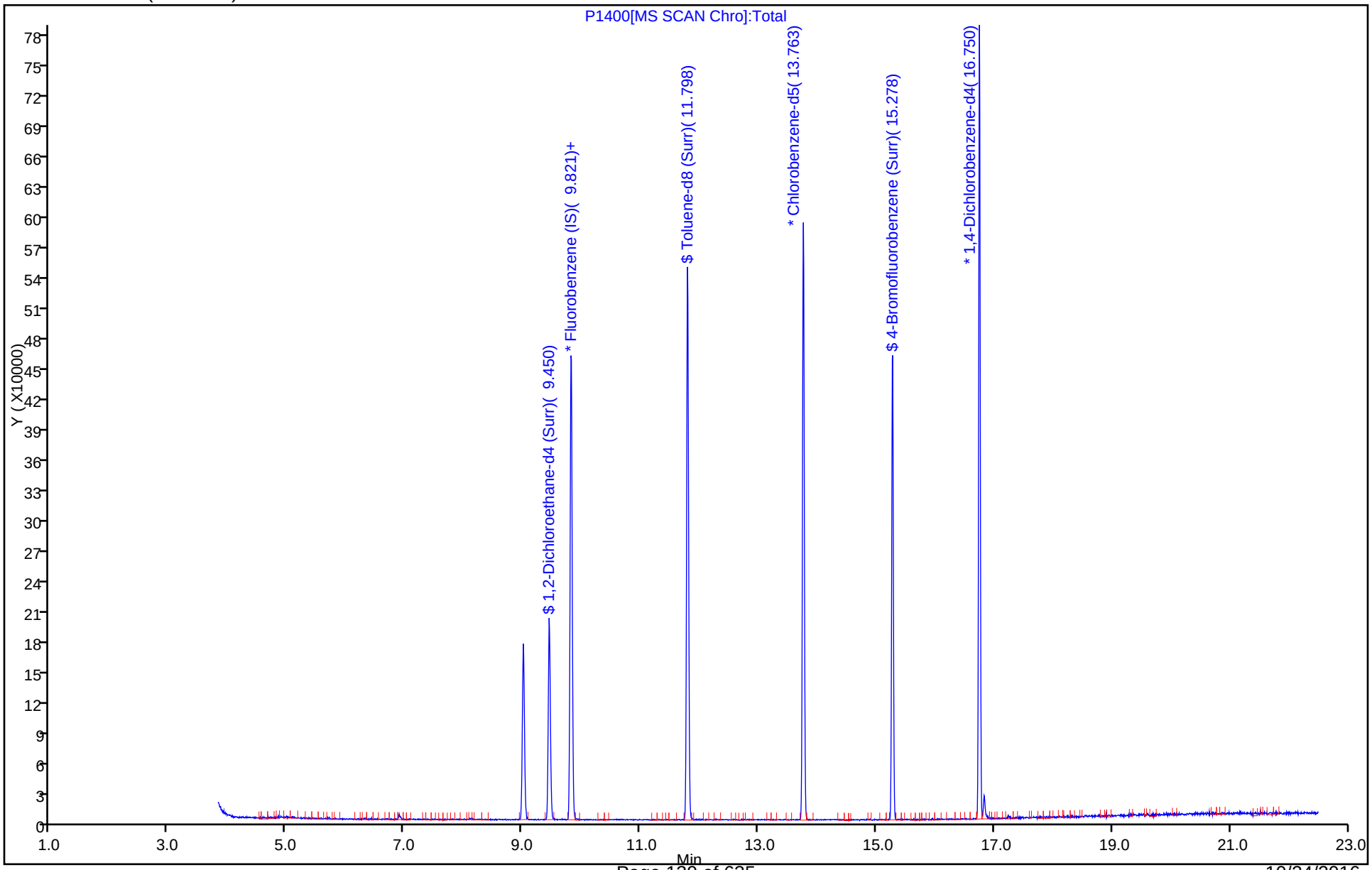
P 8260 IS_00173	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00197	Amount Added: 1.25	Units: uL	Run Reagent

Report Date: 14-Oct-2016 16:35:43 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1400.D				
Injection Date:	14-Oct-2016 14:32:30	Instrument ID:	HP5973P	Operator ID:	RF
Lims ID:	480-107471-A-1	Lab Sample ID:	480-107471-1	Worklist Smp#:	12
Client ID:	TRIP BLANK				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Recovery Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1400.D				
Lims ID:	480-107471-A-1				
Client ID:	TRIP BLANK				
Sample Type:	Client				
Inject. Date:	14-Oct-2016 14:32:30	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	480-107471-A-1				
Misc. Info.:	480-0057262-012				
Operator ID:	RF	Instrument ID:	HP5973P		

Method:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P-8260H2O.m		
Limit Group:	MV - 8260C ICAL		
Last Update:	14-Oct-2016 16:35:42	Calib Date:	15-Sep-2016 21:21:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D		

Column 1 :	ZB-624 (0.25 mm)	Det: MS SCAN
Process Host:	XAWRK014	

First Level Reviewer: youngmans Date: 14-Oct-2016 16:35:42

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	0.0	0	0.00
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	27.2	108.64
$ 5 Toluene-d8 (Surr)	25.0	23.8	95.38
$ 6 4-Bromofluorobenzene (Surr)	25.0	24.9	99.63

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1
SDG No.:
Client Sample ID: MW-3 | Lab Sample ID: 480-107471-2
Matrix: WATER | Lab File ID: P1401.D
Analysis Method: 8260C | Date Collected: 10/10/2016 15:20
Sample wt/vol: 5(mL) | Date Analyzed: 10/14/2016 14:59
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.: 325584 | 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	3.1		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	22		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.: 480-107471-1

SDG No.:

Client Sample ID: MW-3 | Lab Sample ID: 480-107471-2

Matrix: WATER | Lab File ID: P1401.D

Analysis Method: 8260C | Date Collected: 10/10/2016 15:20

Sample wt/vol: 5(mL) | Date Analyzed: 10/14/2016 14:59

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.: 325584 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
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	3.3		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	6.4		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	2.0		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)	109		77-120
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
2037-26-5	Toluene-d8 (Surr)	95		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1401.D
Lims ID: 480-107471-A-2
Client ID: MW-3
Sample Type: Client
Inject. Date: 14-Oct-2016 14:59:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-107471-A-2
Misc. Info.: 480-0057262-013
Operator ID: RF Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Oct-2016 16:39:51 Calib Date: 15-Sep-2016 21:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK014

First Level Reviewer: youngmans Date: 14-Oct-2016 16:39:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.821	9.821	0.000	98	98370	25.0	
* 2 Chlorobenzene-d5	82	13.764	13.764	0.000	86	207471	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.751	16.751	0.000	97	236658	25.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.456	9.456	0.000	0	85760	27.2	
$ 5 Toluene-d8 (Surr)	98	11.799	11.799	0.000	93	439651	23.9	
$ 6 4-Bromofluorobenzene (Surr	174	15.278	15.278	0.000	89	159375	25.3	
10 Dichlorodifluoromethane	85		3.981				ND	
11 Chloromethane	50		4.316				ND	
17 Vinyl chloride	62	4.529	4.529	0.000	96	12180	1.96	
12 Bromomethane	94		5.082				ND	
13 Chloroethane	64		5.204				ND	
14 Trichlorofluoromethane	101		5.605				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.244				ND	
25 1,1-Dichloroethene	96	6.305	6.305	0.018	0	1026	0.1551	7
24 Acetone	43	6.329	6.329	0.006	76	6196	1.53	7
27 Carbon disulfide	76		6.664				ND	
30 Methyl acetate	43		6.700				ND	
31 Methylene Chloride	84		6.907				ND	
32 Methyl tert-butyl ether	73		7.163				ND	
35 trans-1,2-Dichloroethene	96	7.242	7.230	0.012	93	4805	0.6927	
40 1,1-Dichloroethane	63	7.759	7.753	0.006	97	44862	3.07	
44 2-Butanone (MEK)	43		8.398				ND	
43 cis-1,2-Dichloroethene	96	8.459	8.452	0.007	84	165706	21.8	
49 Chloroform	83		8.805				ND	
52 1,1,1-Trichloroethane	97		9.067				ND	
54 Cyclohexane	56		9.134				ND	
55 Carbon tetrachloride	117		9.268				ND	
57 Benzene	78		9.517				ND	
60 1,2-Dichloroethane	62		9.541				ND	
62 Trichloroethene	95	10.278	10.265	0.013	94	46137	6.36	
64 Methylcyclohexane	83		10.509				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
63 1,2-Dichloropropane	63		10.582				ND	
70 Dichlorobromomethane	83		10.904				ND	
73 cis-1,3-Dichloropropene	75		11.446				ND	
75 4-Methyl-2-pentanone (MIBK	43		11.555				ND	
76 Toluene	92		11.884				ND	
78 trans-1,3-Dichloropropene	75		12.145				ND	
79 1,1,2-Trichloroethane	83		12.431				ND	
80 Tetrachloroethene	166	12.638	12.632	0.006	97	25571	3.27	
83 2-Hexanone	43		12.638				ND	
81 Chlorodibromomethane	129		13.009				ND	
85 Ethylene Dibromide	107		13.210				ND	
87 Chlorobenzene	112		13.800				ND	
89 Ethylbenzene	91		13.867				ND	
90 m-Xylene & p-Xylene	106		14.007				ND	
93 o-Xylene	106		14.560				ND	
94 Styrene	104		14.573				ND	
92 Bromoform	173		14.931				ND	
95 Isopropylbenzene	105		14.998				ND	
97 1,1,2,2-Tetrachloroethane	83		15.424				ND	
110 1,3-Dichlorobenzene	146		16.677				ND	
111 1,4-Dichlorobenzene	146		16.781				ND	
116 1,2-Dichlorobenzene	146		17.268				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.241				ND	
119 1,2,4-Trichlorobenzene	180		19.318				ND	
S 126 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

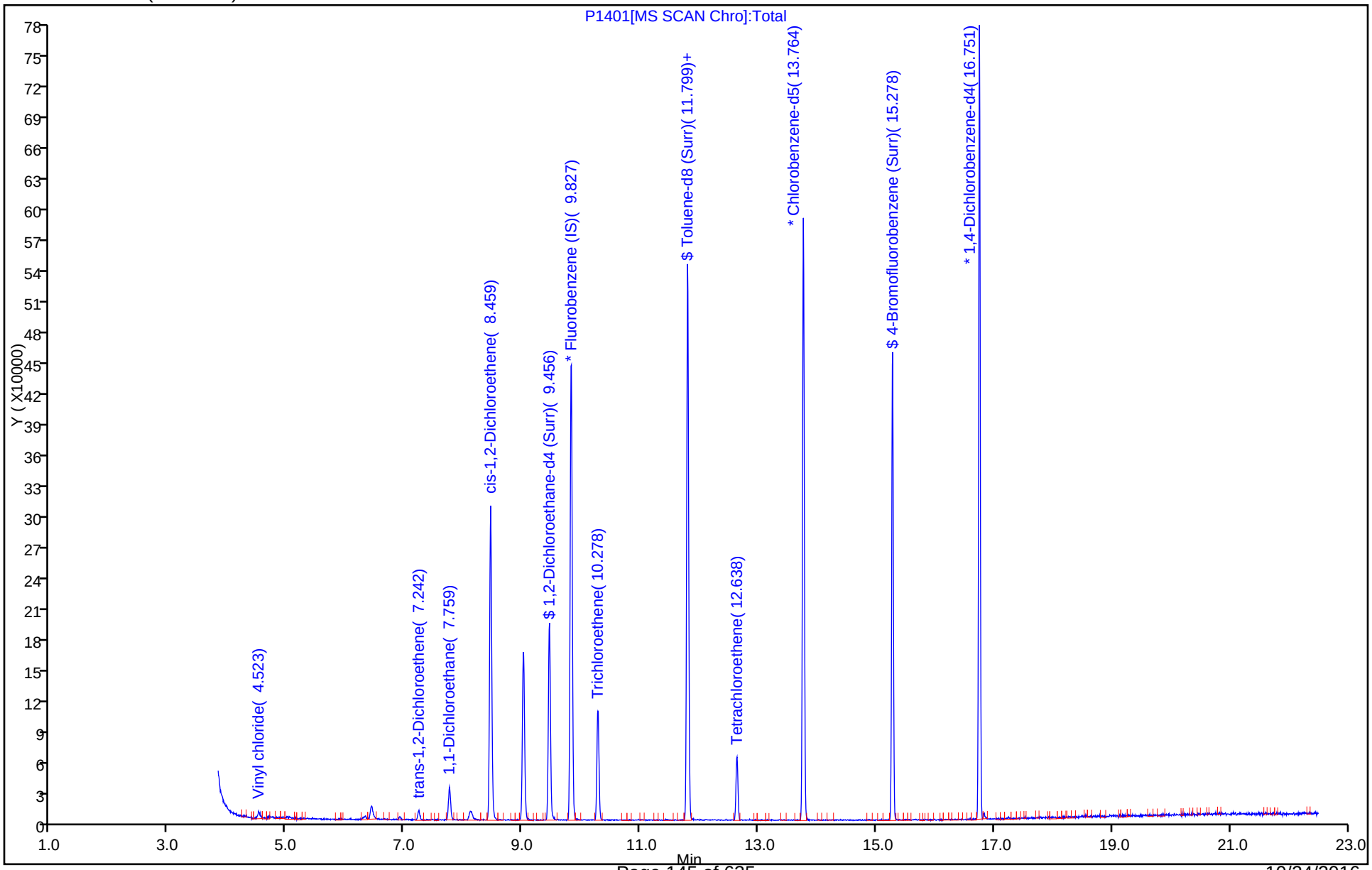
P 8260 IS_00173	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00197	Amount Added:	1.25	Units: uL	Run Reagent

Report Date: 14-Oct-2016 16:39:52 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1401.D				
Injection Date:	14-Oct-2016 14:59:30	Instrument ID:	HP5973P	Operator ID:	RF
Lims ID:	480-107471-A-2	Lab Sample ID:	480-107471-2	Worklist Smp#:	13
Client ID:	MW-3				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Recovery Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1401.D				
Lims ID:	480-107471-A-2				
Client ID:	MW-3				
Sample Type:	Client				
Inject. Date:	14-Oct-2016 14:59:30	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	480-107471-A-2				
Misc. Info.:	480-0057262-013				
Operator ID:	RF	Instrument ID:	HP5973P		

Method:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P-8260H2O.m		
Limit Group:	MV - 8260C ICAL		
Last Update:	14-Oct-2016 16:39:51	Calib Date:	15-Sep-2016 21:21:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D		

Column 1 :	ZB-624 (0.25 mm)	Det: MS SCAN
Process Host:	XAWRK014	

First Level Reviewer: youngmans Date: 14-Oct-2016 16:39:51

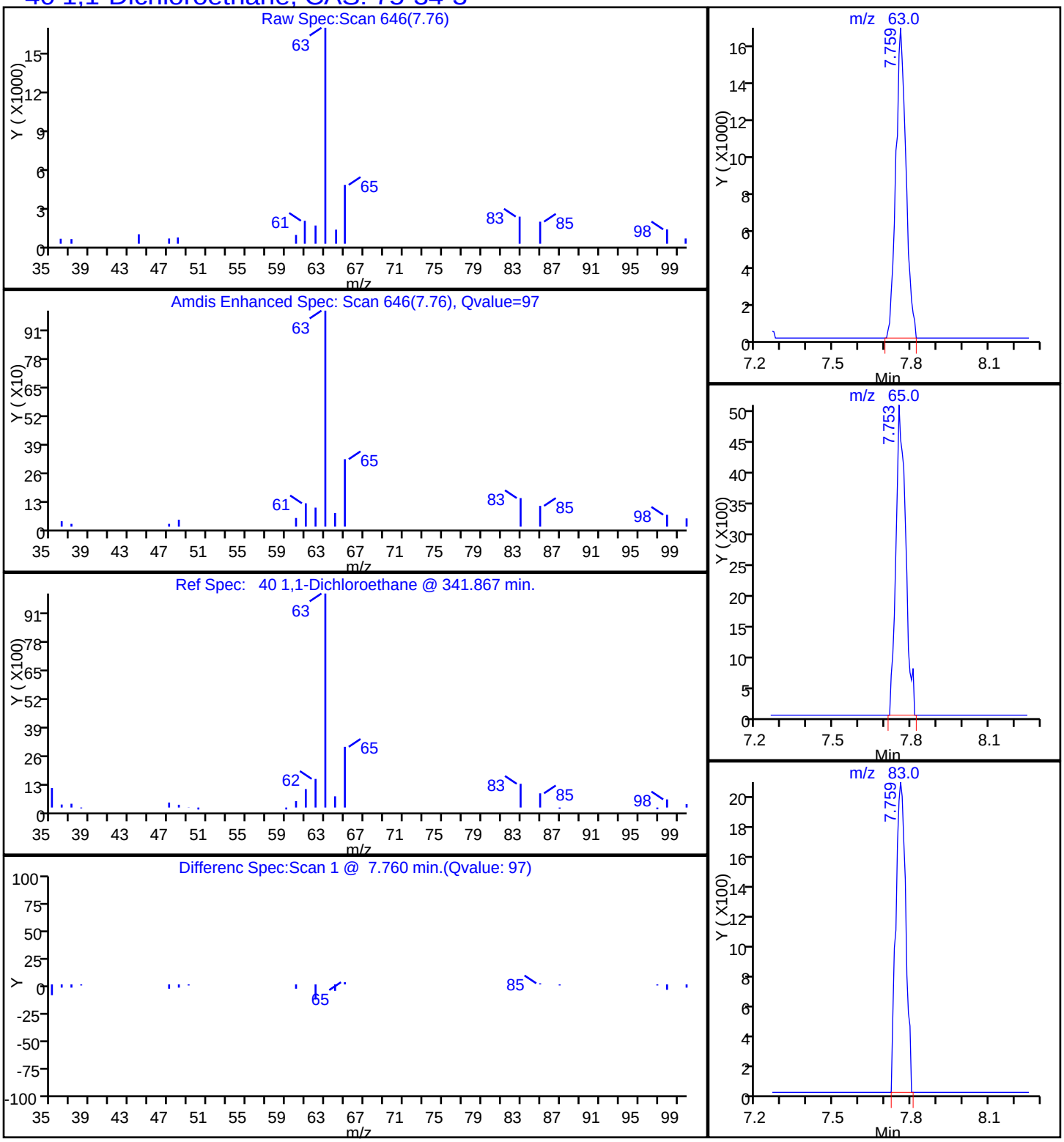
Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	0.0	0	0.00
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	27.2	108.80
$ 5 Toluene-d8 (Surr)	25.0	23.9	95.45
$ 6 4-Bromofluorobenzene (Surr)	25.0	25.3	101.00

Report Date: 14-Oct-2016 16:39:52 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1401.D				
Injection Date:	14-Oct-2016 14:59:30	Instrument ID:	HP5973P		
Lims ID:	480-107471-A-2	Lab Sample ID:	480-107471-2		
Client ID:	MW-3				
Operator ID:	RF	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

40 1,1-Dichloroethane, CAS: 75-34-3

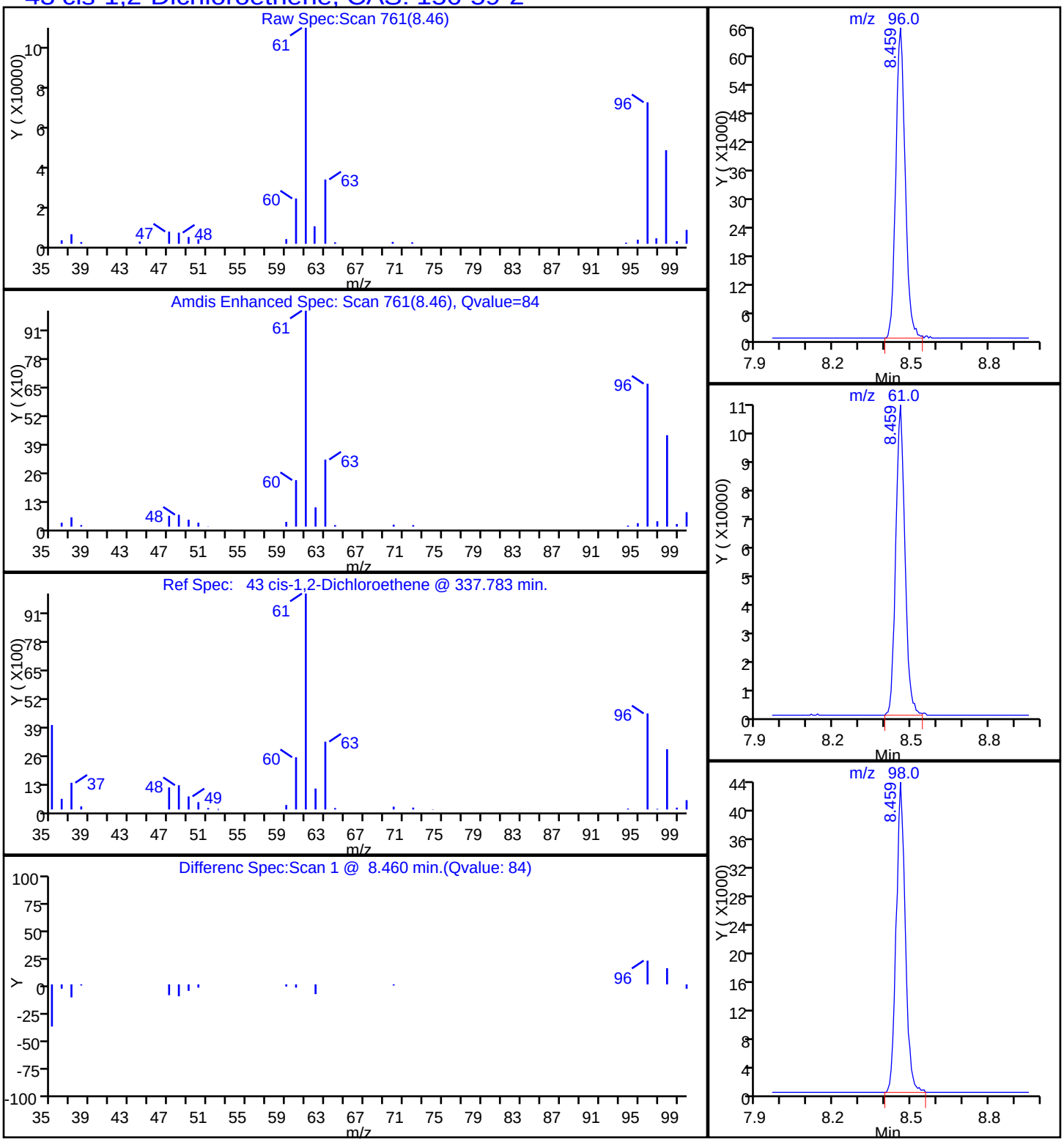


Report Date: 14-Oct-2016 16:39:52 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1401.D				
Injection Date:	14-Oct-2016 14:59:30	Instrument ID:	HP5973P		
Lims ID:	480-107471-A-2	Lab Sample ID:	480-107471-2		
Client ID:	MW-3				
Operator ID:	RF	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

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

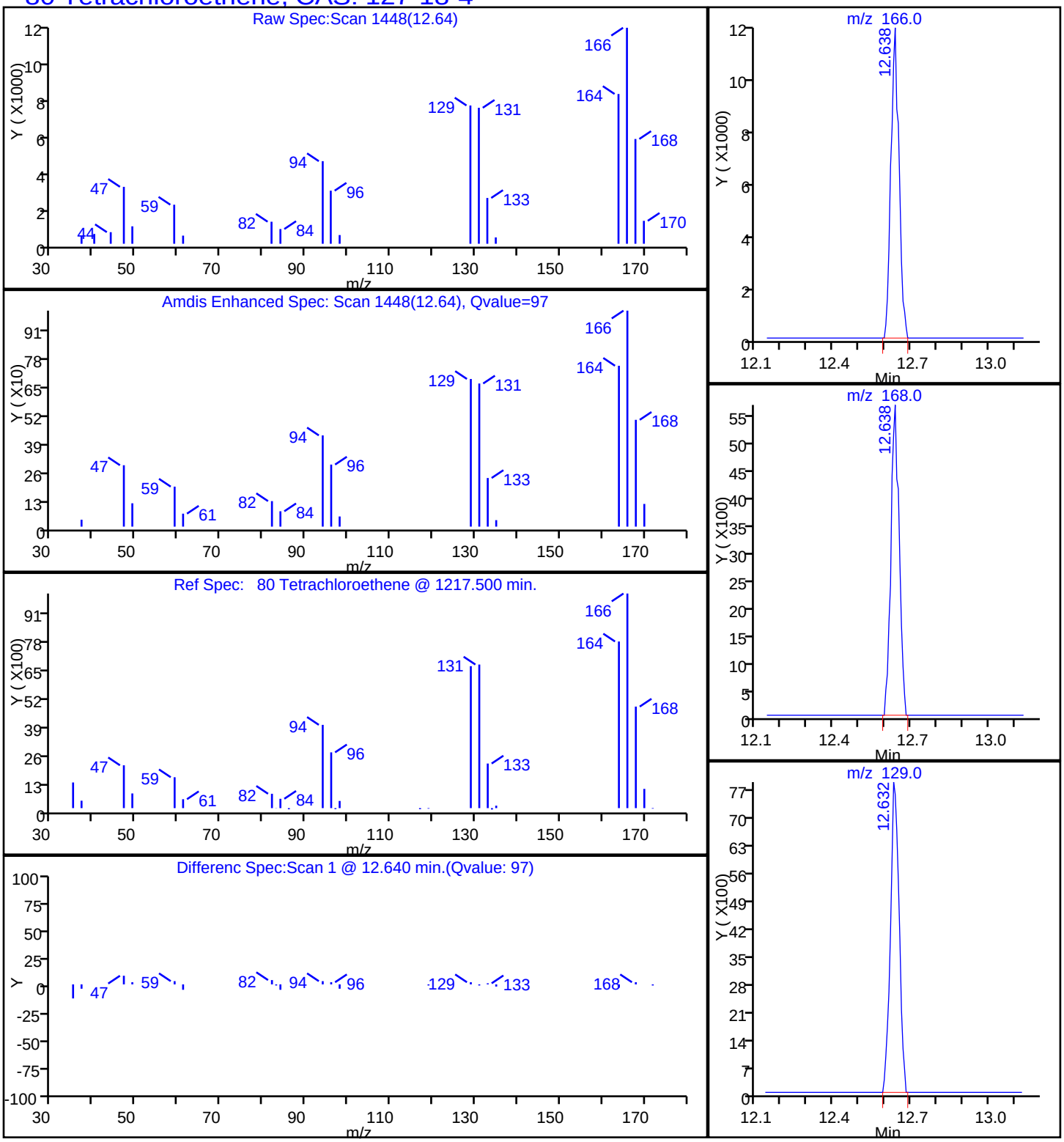


Report Date: 14-Oct-2016 16:39:52 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1401.D				
Injection Date:	14-Oct-2016 14:59:30	Instrument ID:	HP5973P		
Lims ID:	480-107471-A-2	Lab Sample ID:	480-107471-2		
Client ID:	MW-3				
Operator ID:	RF	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

80 Tetrachloroethene, CAS: 127-18-4

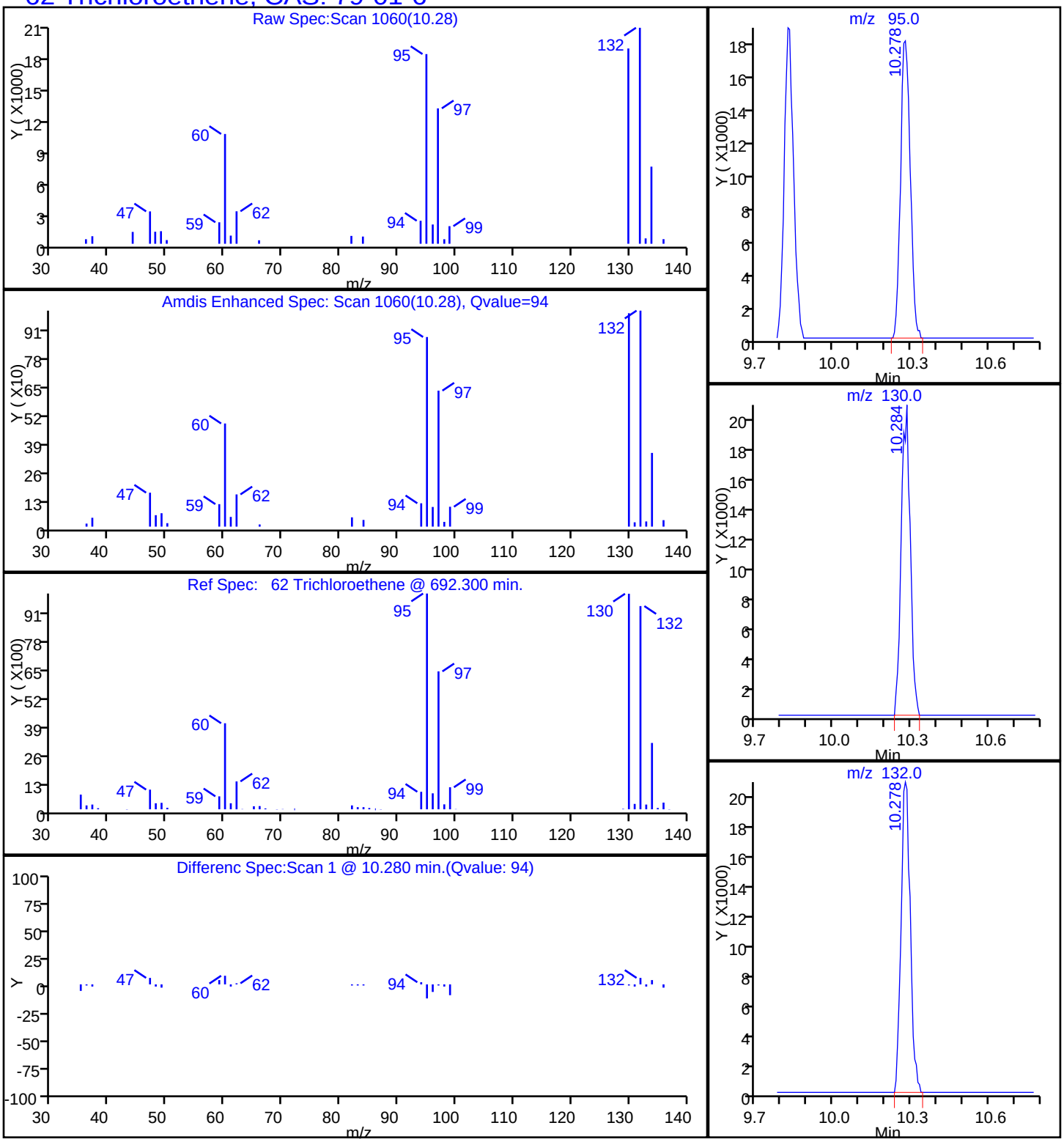


Report Date: 14-Oct-2016 16:39:52 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1401.D				
Injection Date:	14-Oct-2016 14:59:30	Instrument ID:	HP5973P		
Lims ID:	480-107471-A-2	Lab Sample ID:	480-107471-2		
Client ID:	MW-3				
Operator ID:	RF	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

62 Trichloroethene, CAS: 79-01-6

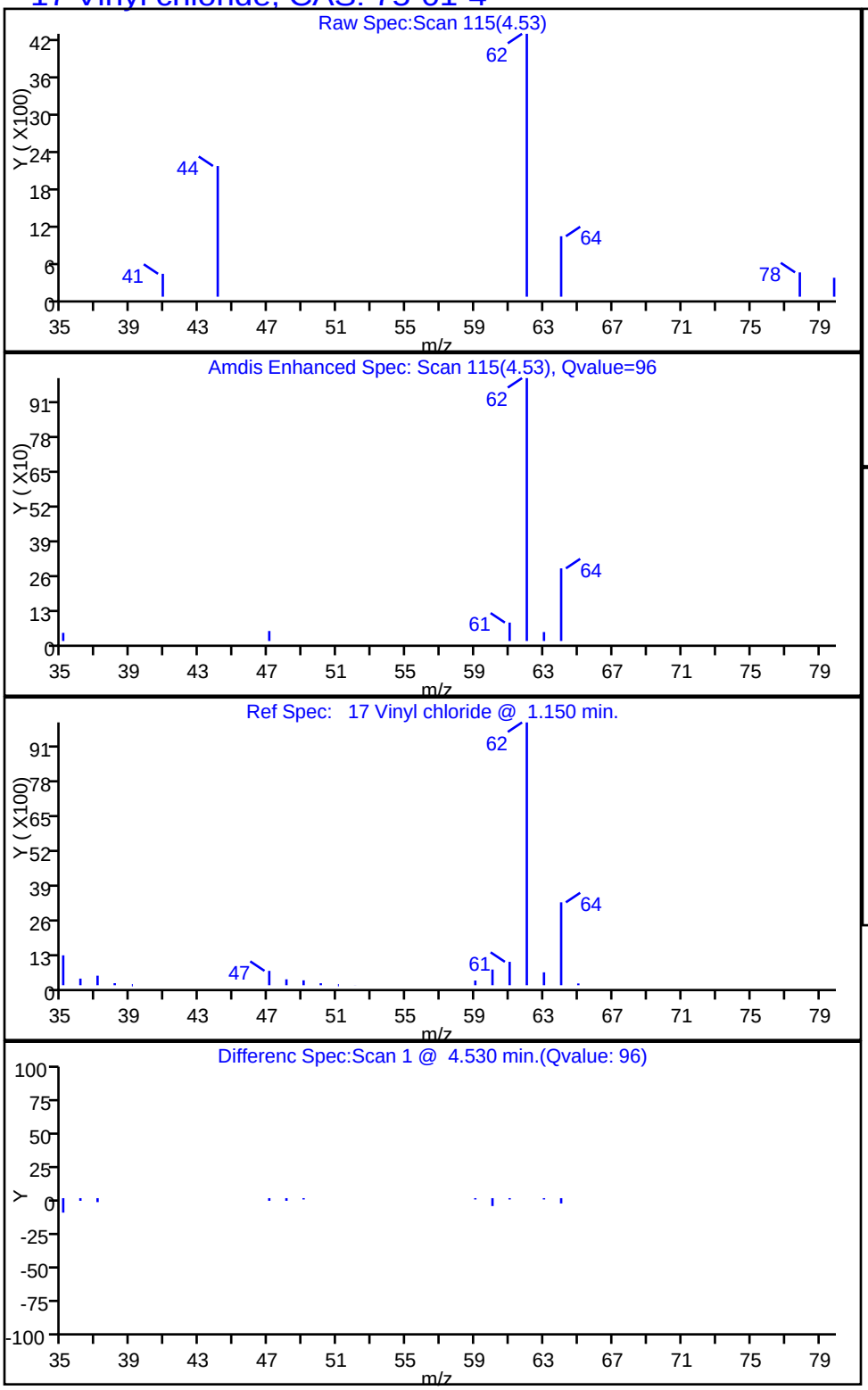


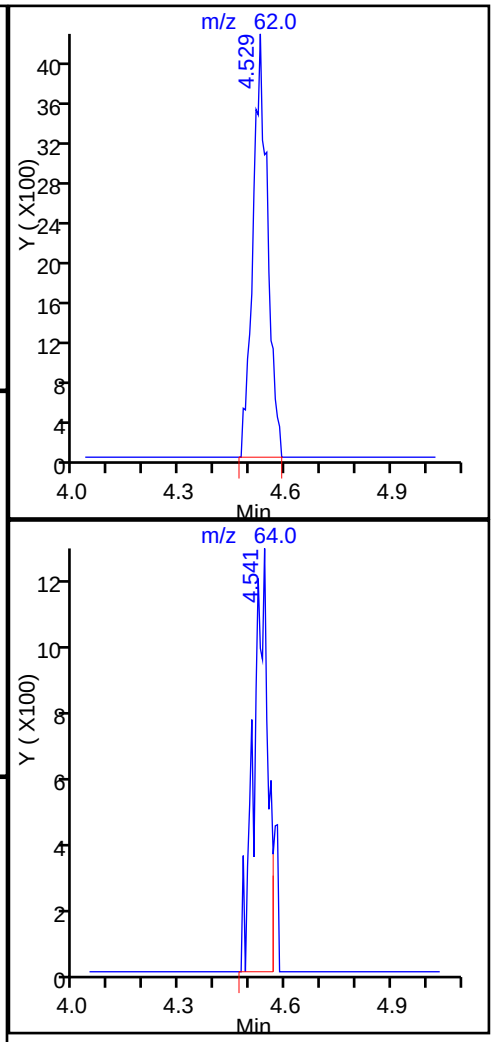
Report Date: 14-Oct-2016 16:39:52 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1401.D				
Injection Date:	14-Oct-2016 14:59:30	Instrument ID:	HP5973P		
Lims ID:	480-107471-A-2	Lab Sample ID:	480-107471-2		
Client ID:	MW-3				
Operator ID:	RF	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

17 Vinyl chloride, CAS: 75-01-4





FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: MW-1 | Lab Sample ID: 480-107471-3

Matrix: Water | Lab File ID: P1402.D

Analysis Method: 8260C | Date Collected: 10/10/2016 16:45

Sample wt/vol: 5(mL) | Date Analyzed: 10/14/2016 15:26

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.: 325584 | 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	3.3		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	23		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.: 480-107471-1

SDG No.:

Client Sample ID: MW-1 | Lab Sample ID: 480-107471-3

Matrix: Water | Lab File ID: P1402.D

Analysis Method: 8260C | Date Collected: 10/10/2016 16:45

Sample wt/vol: 5(mL) | Date Analyzed: 10/14/2016 15:26

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.: 325584 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
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	29		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	12		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)	109		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
2037-26-5	Toluene-d8 (Surr)	97		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1402.D
Lims ID: 480-107471-A-3
Client ID: MW-1
Sample Type: Client
Inject. Date: 14-Oct-2016 15:26:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-107471-A-3
Misc. Info.: 480-0057262-014
Operator ID: RF Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Oct-2016 16:41:37 Calib Date: 15-Sep-2016 21:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK014

First Level Reviewer: youngmans Date: 14-Oct-2016 16:41:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.821	9.821	0.000	98	97140	25.0	
* 2 Chlorobenzene-d5	82	13.763	13.764	-0.001	86	201534	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.750	16.751	-0.001	96	234362	25.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.456	9.456	0.000	0	84530	27.1	
$ 5 Toluene-d8 (Surr)	98	11.798	11.799	-0.001	93	433066	24.2	
$ 6 4-Bromofluorobenzene (Surr	174	15.278	15.278	0.000	90	153469	25.0	
10 Dichlorodifluoromethane	85		3.981				ND	
11 Chloromethane	50		4.316				ND	
17 Vinyl chloride	62	4.510	4.529	-0.019	17	3140	0.5122	
12 Bromomethane	94		5.082				ND	
13 Chloroethane	64		5.204				ND	
14 Trichlorofluoromethane	101		5.605				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.244				ND	
25 1,1-Dichloroethene	96		6.287				ND	
24 Acetone	43	6.335	6.335	0.012	1	2047	0.5132	7M
27 Carbon disulfide	76		6.664				ND	
30 Methyl acetate	43		6.700				ND	
31 Methylene Chloride	84		6.907				ND	
32 Methyl tert-butyl ether	73		7.163				ND	
35 trans-1,2-Dichloroethene	96	7.236	7.230	0.006	92	2699	0.3940	
40 1,1-Dichloroethane	63	7.759	7.753	0.006	97	47459	3.28	
44 2-Butanone (MEK)	43		8.398				ND	
43 cis-1,2-Dichloroethene	96	8.459	8.452	0.007	84	173315	23.1	
49 Chloroform	83		8.805				ND	
52 1,1,1-Trichloroethane	97		9.067				ND	
54 Cyclohexane	56		9.134				ND	
55 Carbon tetrachloride	117		9.268				ND	
57 Benzene	78		9.517				ND	
60 1,2-Dichloroethane	62		9.541				ND	
62 Trichloroethene	95	10.278	10.265	0.013	93	89179	12.5	
64 Methylcyclohexane	83		10.509				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
63 1,2-Dichloropropane	63		10.582				ND	
70 Dichlorobromomethane	83		10.904				ND	
73 cis-1,3-Dichloropropene	75		11.446				ND	
75 4-Methyl-2-pentanone (MIBK	43		11.555				ND	
76 Toluene	92		11.884				ND	
78 trans-1,3-Dichloropropene	75		12.145				ND	
79 1,1,2-Trichloroethane	83		12.431				ND	
80 Tetrachloroethene	166	12.638	12.632	0.006	95	219205	28.8	
83 2-Hexanone	43		12.638				ND	
81 Chlorodibromomethane	129		13.009				ND	
85 Ethylene Dibromide	107		13.210				ND	
87 Chlorobenzene	112		13.800				ND	
89 Ethylbenzene	91		13.867				ND	
90 m-Xylene & p-Xylene	106		14.007				ND	
93 o-Xylene	106		14.560				ND	
94 Styrene	104		14.573				ND	
92 Bromoform	173		14.931				ND	
95 Isopropylbenzene	105		14.998				ND	
97 1,1,2,2-Tetrachloroethane	83		15.424				ND	
110 1,3-Dichlorobenzene	146		16.677				ND	
111 1,4-Dichlorobenzene	146		16.781				ND	
116 1,2-Dichlorobenzene	146		17.268				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.241				ND	
119 1,2,4-Trichlorobenzene	180		19.318				ND	
S 126 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

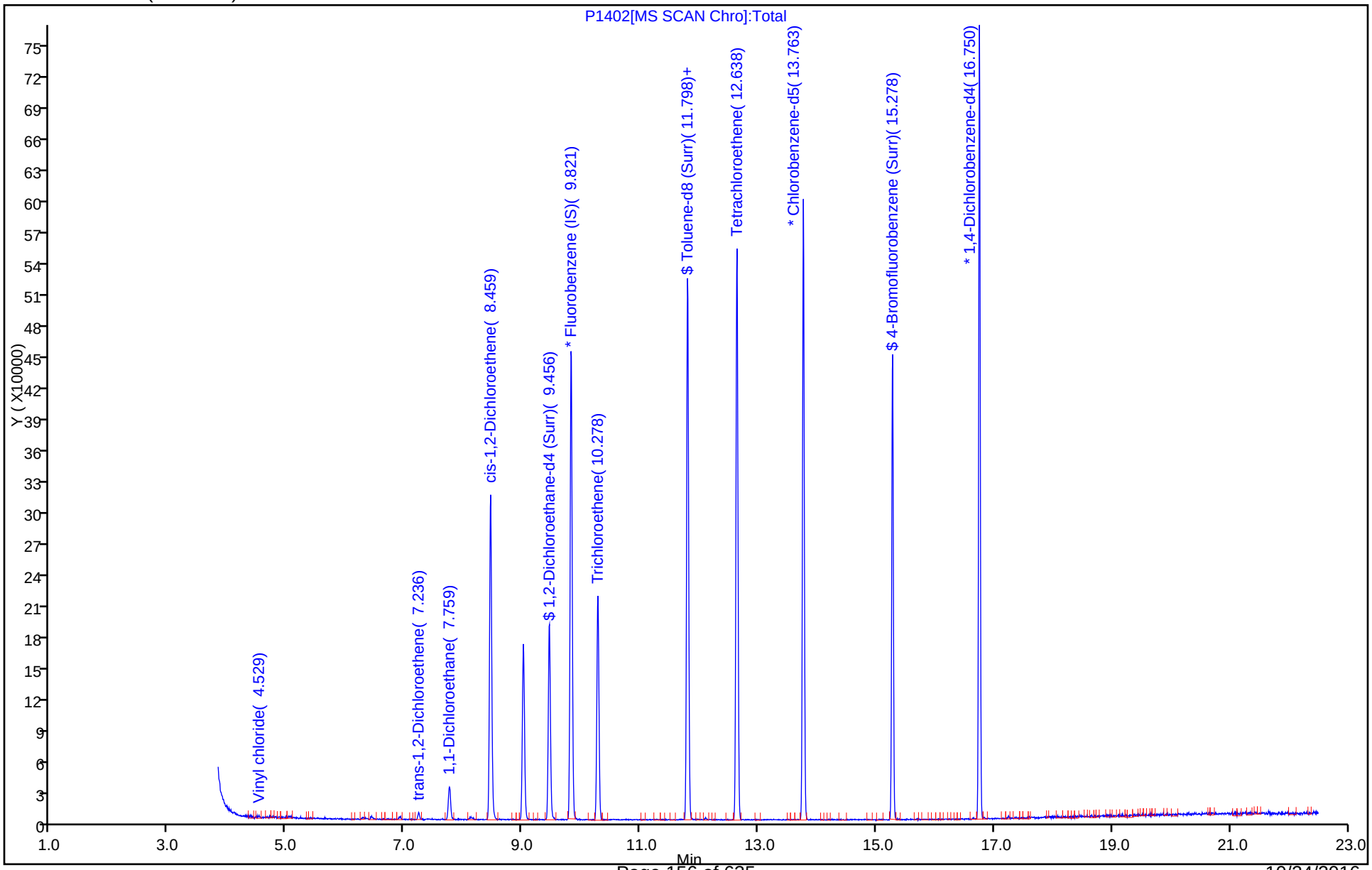
P 8260 IS_00173	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00197	Amount Added:	1.25	Units: uL	Run Reagent

Report Date: 14-Oct-2016 16:41:37 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1402.D				
Injection Date:	14-Oct-2016 15:26:30	Instrument ID:	HP5973P	Operator ID:	RF
Lims ID:	480-107471-A-3	Lab Sample ID:	480-107471-3	Worklist Smp#:	14
Client ID:	MW-1				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Recovery Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1402.D				
Lims ID:	480-107471-A-3				
Client ID:	MW-1				
Sample Type:	Client				
Inject. Date:	14-Oct-2016 15:26:30	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	480-107471-A-3				
Misc. Info.:	480-0057262-014				
Operator ID:	RF	Instrument ID:	HP5973P		

Method:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P-8260H2O.m		
Limit Group:	MV - 8260C ICAL		
Last Update:	14-Oct-2016 16:41:37	Calib Date:	15-Sep-2016 21:21:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D		

Column 1 :	ZB-624 (0.25 mm)	Det: MS SCAN
Process Host:	XAWRK014	

First Level Reviewer: youngmans Date: 14-Oct-2016 16:41:37

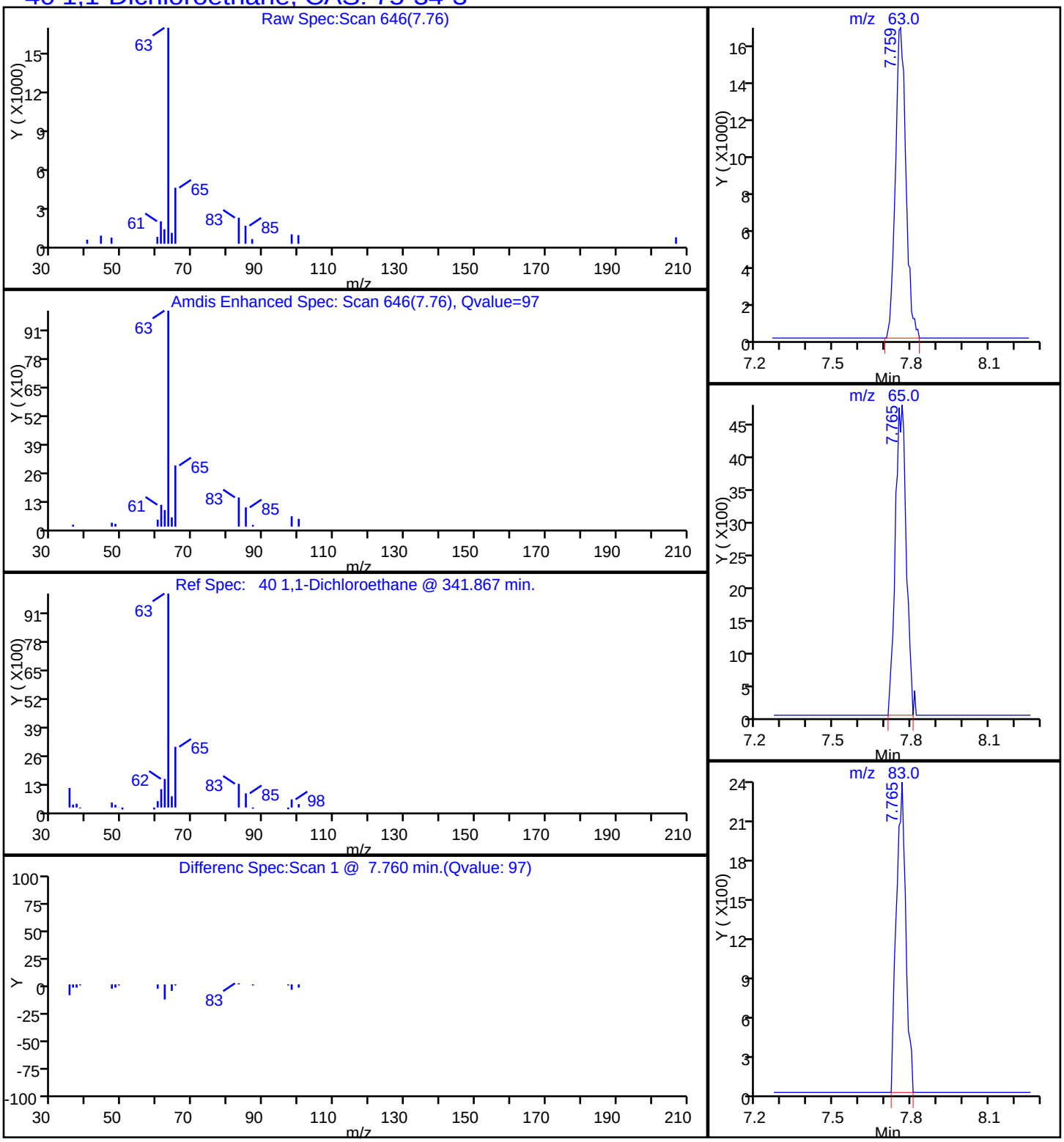
Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	0.0	0	0.00
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	27.1	108.60
$ 5 Toluene-d8 (Surr)	25.0	24.2	96.79
$ 6 4-Bromofluorobenzene (Surr)	25.0	25.0	100.13

Report Date: 14-Oct-2016 16:41:38 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1402.D				
Injection Date:	14-Oct-2016 15:26:30	Instrument ID:	HP5973P		
Lims ID:	480-107471-A-3	Lab Sample ID:	480-107471-3		
Client ID:	MW-1				
Operator ID:	RF	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

40 1,1-Dichloroethane, CAS: 75-34-3

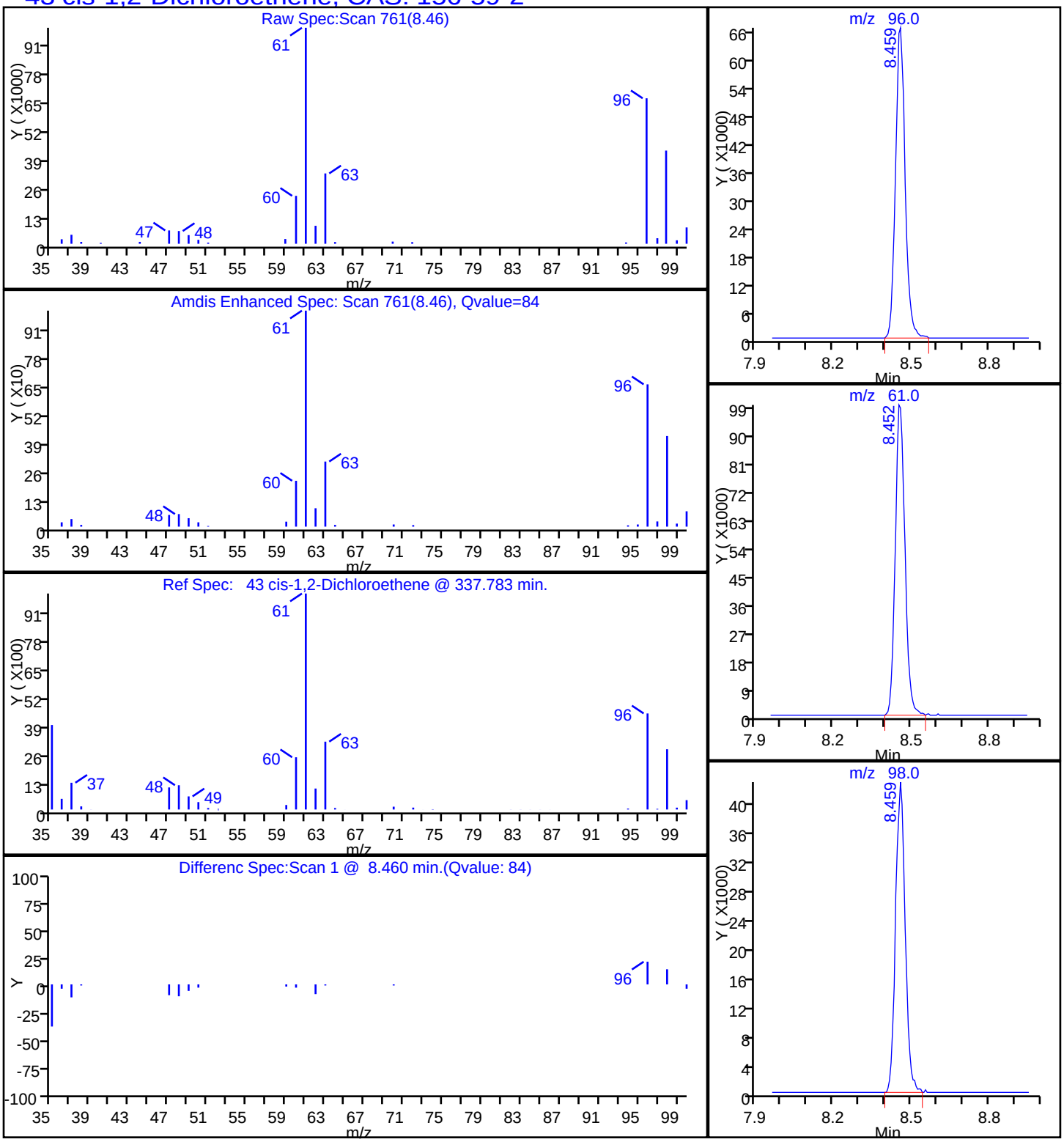


Report Date: 14-Oct-2016 16:41:38 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1402.D				
Injection Date:	14-Oct-2016 15:26:30	Instrument ID:	HP5973P		
Lims ID:	480-107471-A-3	Lab Sample ID:	480-107471-3		
Client ID:	MW-1				
Operator ID:	RF	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

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

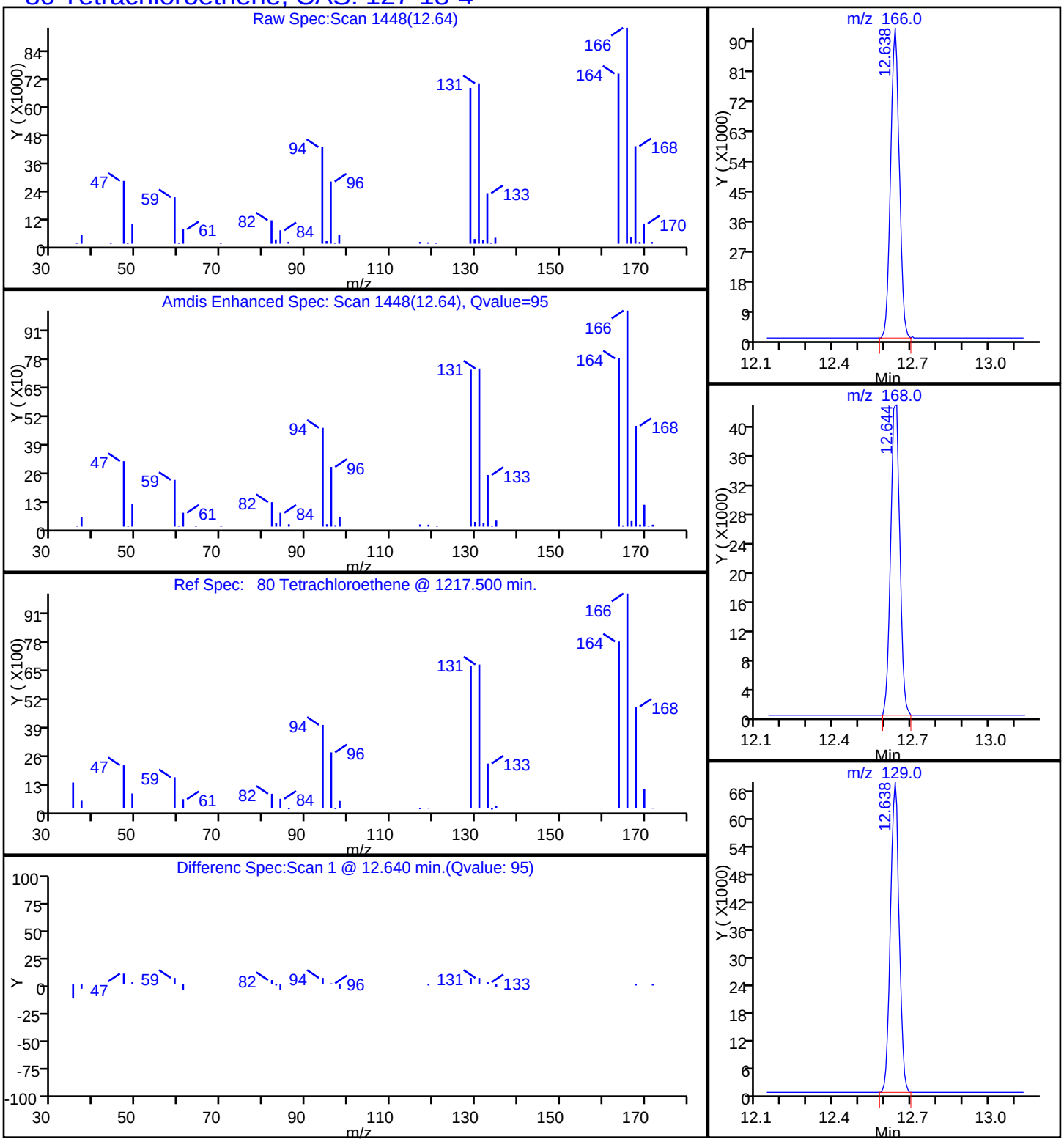


Report Date: 14-Oct-2016 16:41:38 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1402.D				
Injection Date:	14-Oct-2016 15:26:30	Instrument ID:	HP5973P		
Lims ID:	480-107471-A-3	Lab Sample ID:	480-107471-3		
Client ID:	MW-1				
Operator ID:	RF	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

80 Tetrachloroethene, CAS: 127-18-4

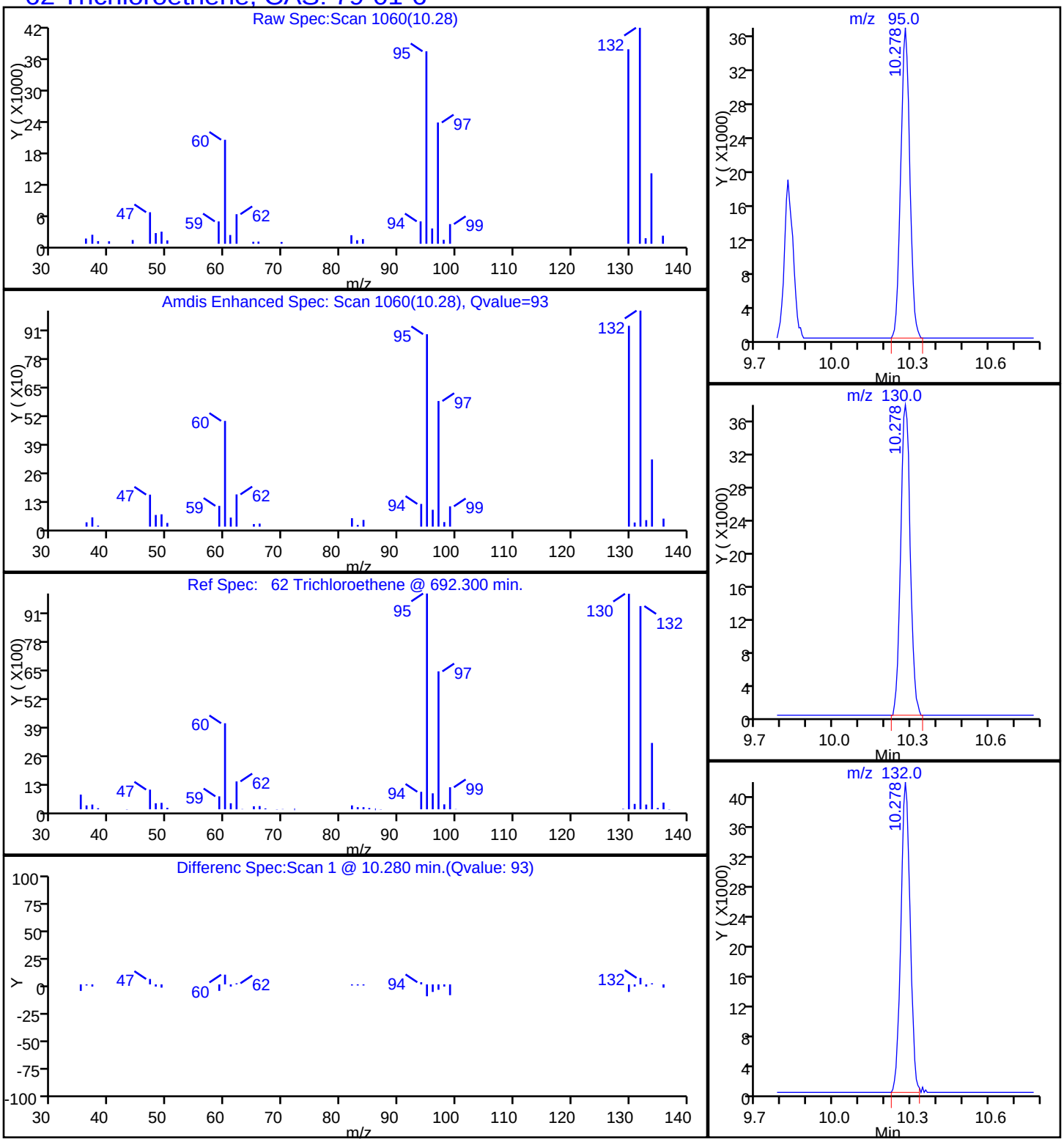


Report Date: 14-Oct-2016 16:41:38 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1402.D				
Injection Date:	14-Oct-2016 15:26:30	Instrument ID:	HP5973P		
Lims ID:	480-107471-A-3	Lab Sample ID:	480-107471-3		
Client ID:	MW-1				
Operator ID:	RF	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

62 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

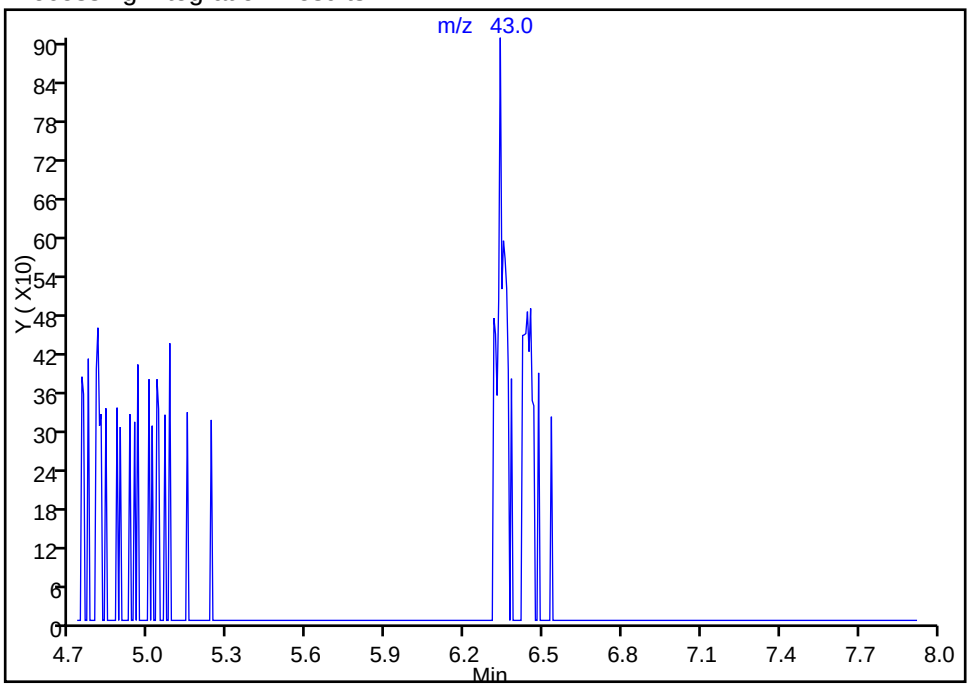
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1402.D				
Injection Date:	14-Oct-2016 15:26:30	Instrument ID:	HP5973P		
Lims ID:	480-107471-A-3	Lab Sample ID:	480-107471-3		
Client ID:	MW-1				
Operator ID:	RF	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

24 Acetone, CAS: 67-64-1

Signal: 1

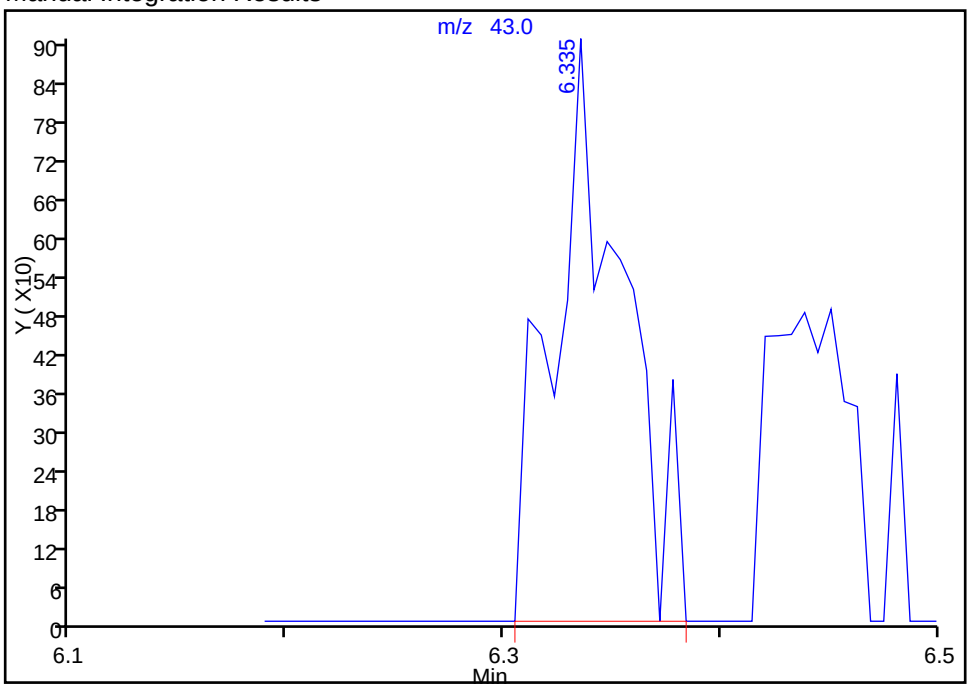
Not Detected
Expected RT: 6.32

Processing Integration Results



RT: 6.34
Area: 2047
Amount: 0.513178
Amount Units: ug/L

Manual Integration Results



Reviewer: youngmans, 14-Oct-2016 16:41:37
Audit Action: Assigned Compound ID Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

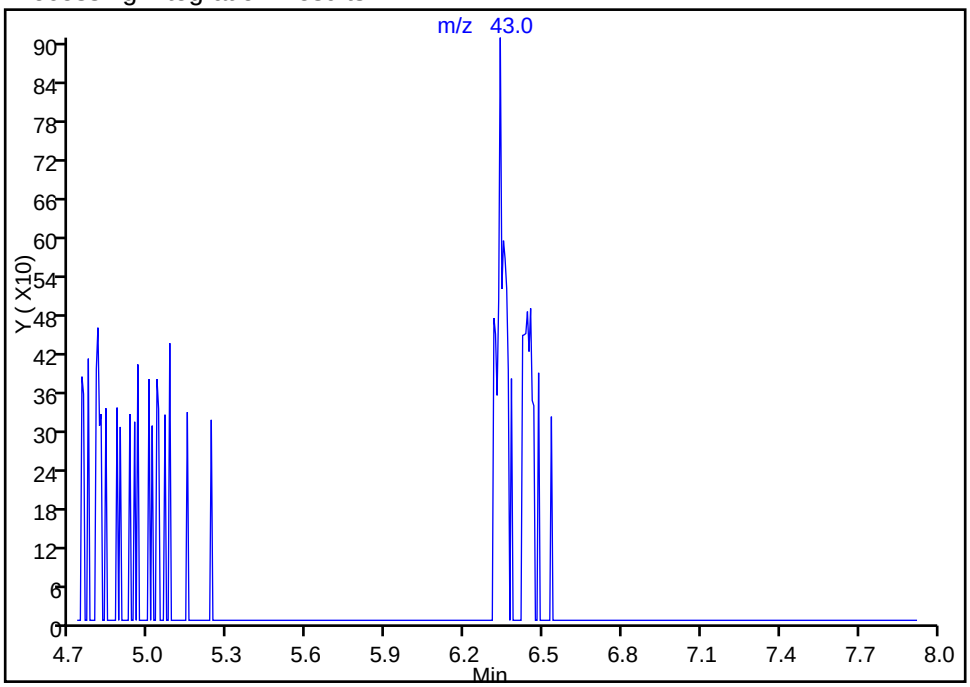
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1402.D				
Injection Date:	14-Oct-2016 15:26:30	Instrument ID:	HP5973P		
Lims ID:	480-107471-A-3	Lab Sample ID:	480-107471-3		
Client ID:	MW-1				
Operator ID:	RF	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

24 Acetone, CAS: 67-64-1

Signal: 1

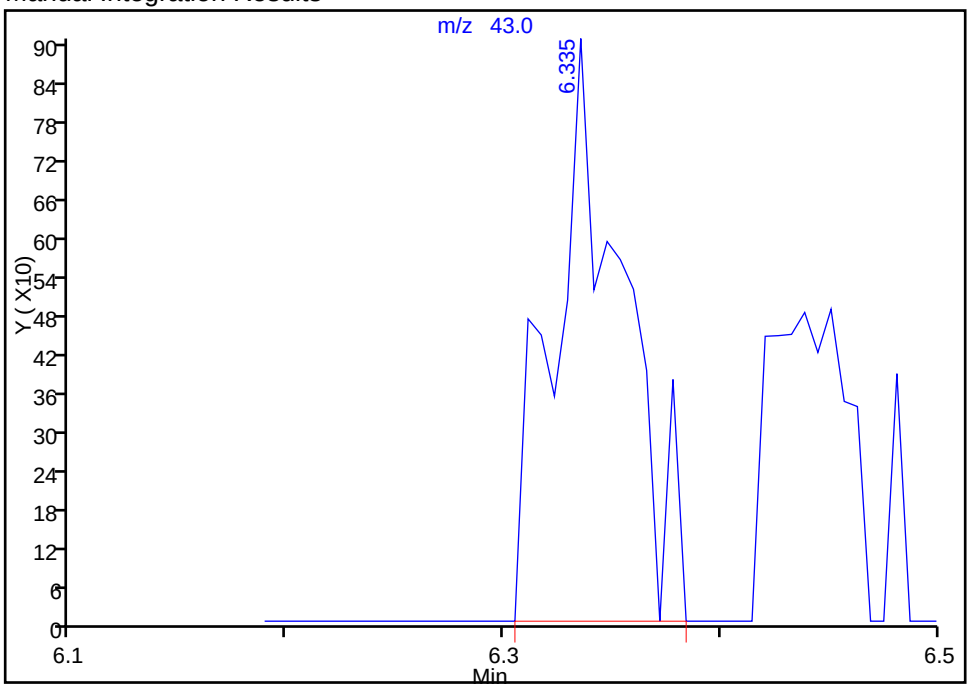
Processing Integration Results

Not Detected
Expected RT: 6.32



Manual Integration Results

RT: 6.34
Area: 2047
Amount: 0.513178
Amount Units: ug/L



Reviewer: youngmans, 14-Oct-2016 16:41:37
Audit Action: Manually Integrated Audit Reason: Missed Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1
SDG No.:
Client Sample ID: MW-18 | Lab Sample ID: 480-107471-4
Matrix: Water | Lab File ID: N8918.D
Analysis Method: 8260C | Date Collected: 10/11/2016 14:10
Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2016 20:28
Soil Aliquot Vol: | Dilution Factor: 20
Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 325847 | 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	18	J	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	ND		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	780		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.: 480-107471-1

SDG No.:

Client Sample ID: MW-18 | Lab Sample ID: 480-107471-4

Matrix: Water | Lab File ID: N8918.D

Analysis Method: 8260C | Date Collected: 10/11/2016 14:10

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2016 20:28

Soil Aliquot Vol: | Dilution Factor: 20

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 325847 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		50	26
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	85		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	120		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		77-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8918.D
Lims ID: 480-107471-A-4
Client ID: MW-18
Sample Type: Client
Inject. Date: 15-Oct-2016 20:28:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 20.0000
Sample Info: 480-107471-a-4
Misc. Info.: 480-0057315-008
Operator ID: NEA Instrument ID: HP5973N

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Oct-2016 16:41:43 Calib Date: 06-Oct-2016 06:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK014

First Level Reviewer: gentilej Date: 16-Oct-2016 16:41:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.528	5.534	-0.006	99	101850	25.0	
* 2 Chlorobenzene-d5	117	8.527	8.527	0.000	85	398934	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.906	10.906	0.000	94	228034	25.0	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.242	5.242	0.000	0	166427	26.5	
$ 6 Toluene-d8 (Surr)	98	7.043	7.043	0.000	93	485524	25.0	
$ 7 4-Bromofluorobenzene (Surr	174	9.774	9.774	0.000	96	181331	25.6	
11 Dichlorodifluoromethane	85		1.379				ND	
13 Chloromethane	50		1.525				ND	
14 Vinyl chloride	62	1.634	1.634	-0.006	1	1843	0.2989	M
15 Bromomethane	94		1.926				ND	
16 Chloroethane	64		2.042				ND	
18 Trichlorofluoromethane	101		2.285				ND	
22 1,1-Dichloroethene	96		2.778				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.778				ND	
23 Acetone	43		2.869				ND	
25 Carbon disulfide	76		2.973				ND	
28 Methyl acetate	43		3.174				ND	
30 Methylene Chloride	84		3.271				ND	
32 Methyl tert-butyl ether	73		3.502				ND	
33 trans-1,2-Dichloroethene	96		3.514				ND	
36 1,1-Dichloroethane	63	3.922	3.922	0.000	94	9413	0.8959	
43 cis-1,2-Dichloroethene	96	4.475	4.469	0.006	82	276530	39.1	
44 2-Butanone (MEK)	43		4.494				ND	
50 Chloroform	83		4.780				ND	
51 1,1,1-Trichloroethane	97		4.907				ND	
52 Cyclohexane	56		4.938				ND	
53 Carbon tetrachloride	117		5.059				ND	
55 Benzene	78		5.260				ND	
57 1,2-Dichloroethane	62		5.309				ND	
60 Trichloroethene	95	5.881	5.875	0.006	91	34301	6.04	
62 Methylcyclohexane	83		6.015				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
63 1,2-Dichloropropane	63		6.100				ND	
67 Dichlorobromomethane	83		6.386				ND	
71 cis-1,3-Dichloropropene	75		6.805				ND	
72 4-Methyl-2-pentanone (MIBK	58		6.945				ND	
73 Toluene	92		7.110				ND	
75 trans-1,3-Dichloropropene	75		7.371				ND	
78 1,1,2-Trichloroethane	83		7.554				ND	
79 Tetrachloroethene	166	7.657	7.651	0.006	96	27132	4.26	
82 2-Hexanone	43		7.785				ND	
83 Chlorodibromomethane	129		7.955				ND	
84 Ethylene Dibromide	107		8.065				ND	
85 Chlorobenzene	112		8.557				ND	
88 Ethylbenzene	91		8.655				ND	
90 m-Xylene & p-Xylene	106		8.776				ND	
91 o-Xylene	106		9.202				ND	
92 Styrene	104		9.227				ND	
93 Bromoform	173		9.458				ND	
95 Isopropylbenzene	105		9.586				ND	
98 1,1,2,2-Tetrachloroethane	83		9.957				ND	
110 1,3-Dichlorobenzene	146		10.845				ND	
113 1,4-Dichlorobenzene	146		10.930				ND	
116 1,2-Dichlorobenzene	146		11.277				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.995				ND	
119 1,2,4-Trichlorobenzene	180		12.688				ND	
S 126 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

N_8260_Surr_00211	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00038	Amount Added:	1.00	Units: uL	Run Reagent

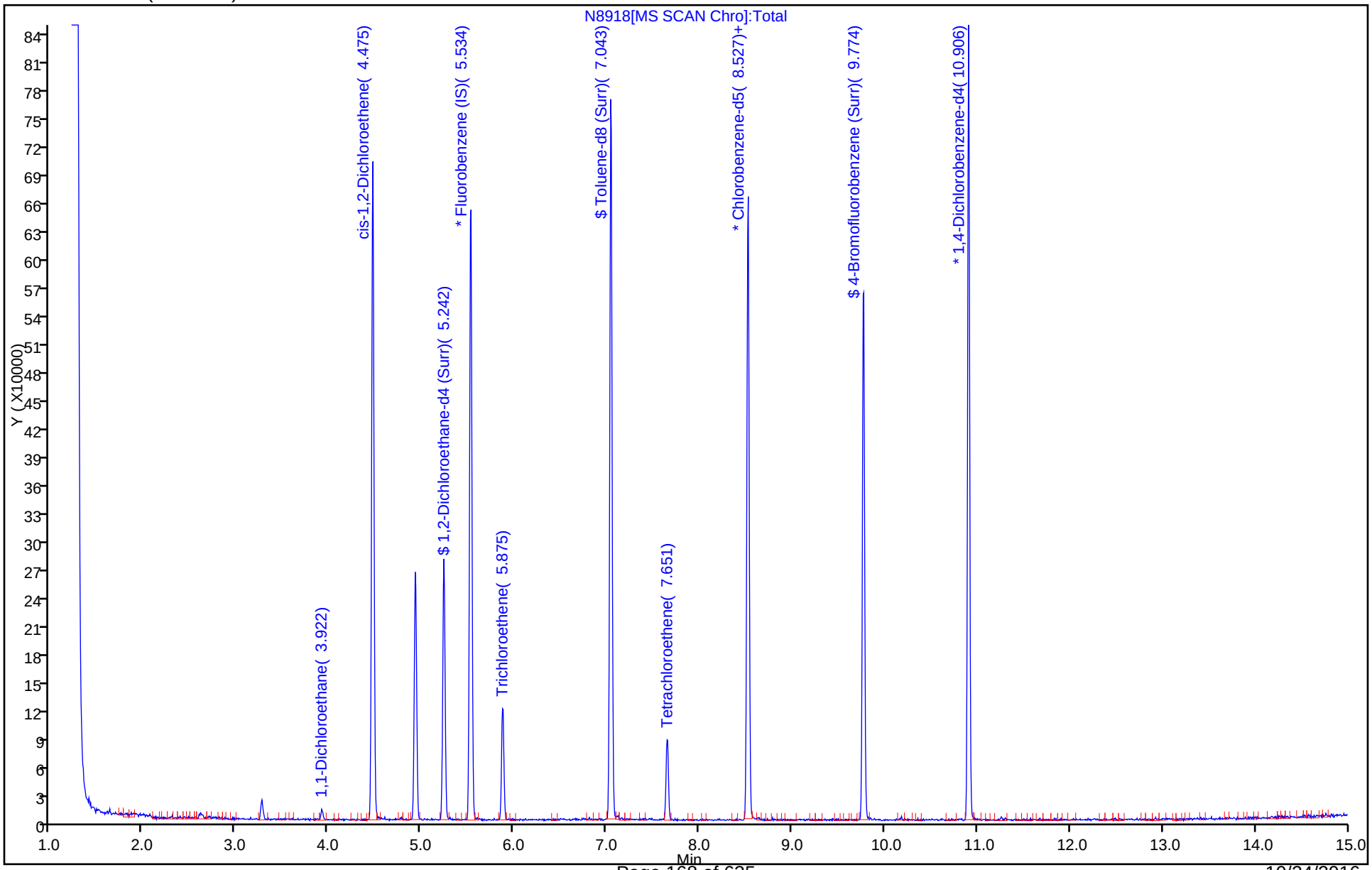
Report Date: 16-Oct-2016 16:41:44 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8918.D

Injection Date:	15-Oct-2016 20:28:30	Instrument ID:	HP5973N	Operator ID:	NEA
Lims ID:	480-107471-A-4	Lab Sample ID:	480-107471-4	Worklist Smp#:	8
Client ID:	MW-18				
Purge Vol:	5.000 mL	Dil. Factor:	20.0000	ALS Bottle#:	8
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Recovery Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8918.D				
Lims ID:	480-107471-A-4				
Client ID:	MW-18				
Sample Type:	Client				
Inject. Date:	15-Oct-2016 20:28:30	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Sample Info:	480-107471-a-4				
Misc. Info.:	480-0057315-008				
Operator ID:	NEA	Instrument ID:	HP5973N		

Method:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N-8260.m		
Limit Group:	MV - 8260C ICAL		
Last Update:	16-Oct-2016 16:41:43	Calib Date:	06-Oct-2016 06:56:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D		

Column 1 :	ZB-624 (0.25 mm)	Det: MS SCAN
Process Host:	XAWRK014	

First Level Reviewer: gentilej Date: 16-Oct-2016 16:41:43

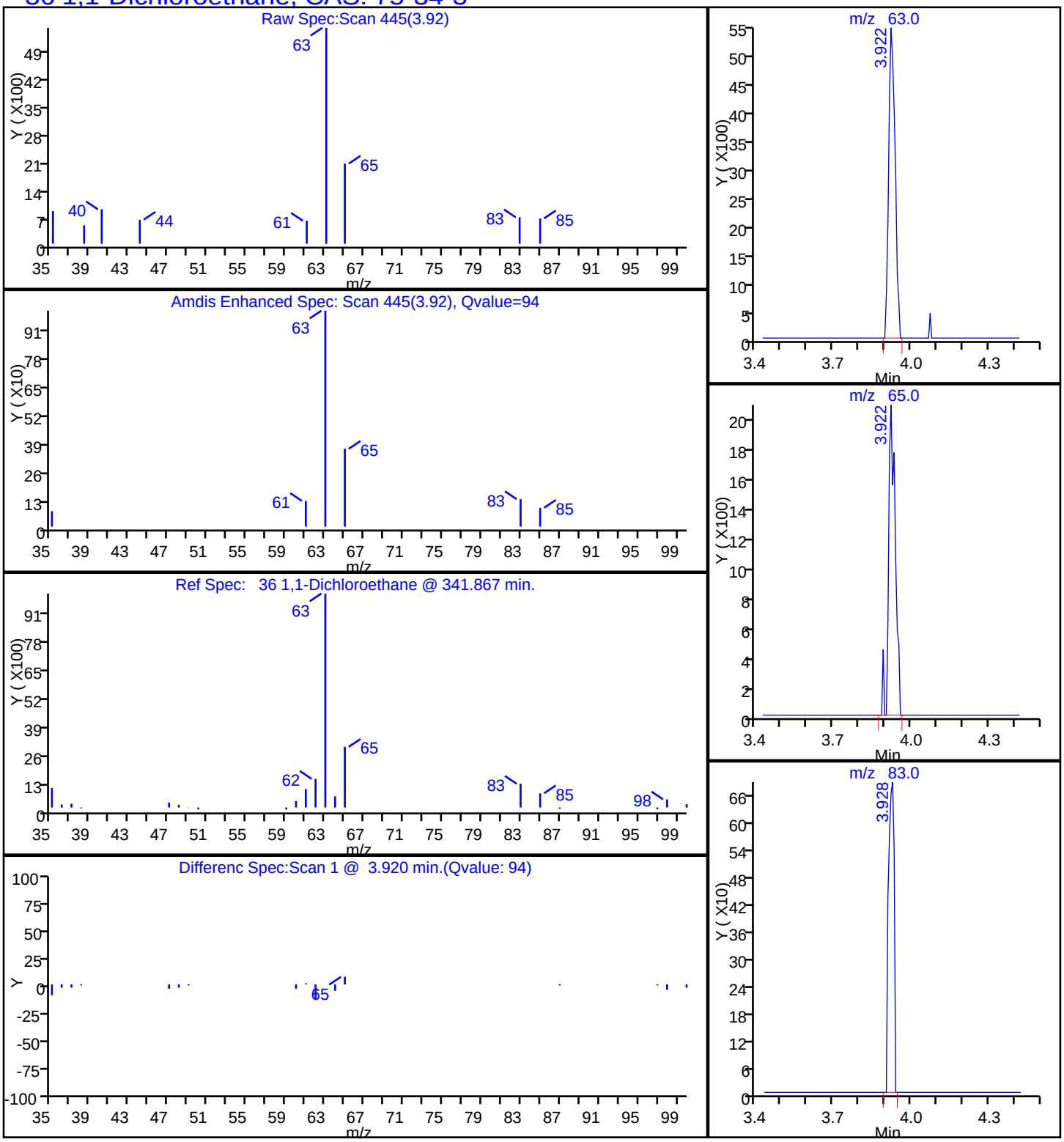
Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	0.0	0	0.00
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	26.5	106.09
$ 6 Toluene-d8 (Surr)	25.0	25.0	99.87
$ 7 4-Bromofluorobenzene (Surr)	25.0	25.6	102.22

Report Date: 16-Oct-2016 16:41:44 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8918.D				
Injection Date:	15-Oct-2016 20:28:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-A-4	Lab Sample ID:	480-107471-4		
Client ID:	MW-18				
Operator ID:	NEA	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

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

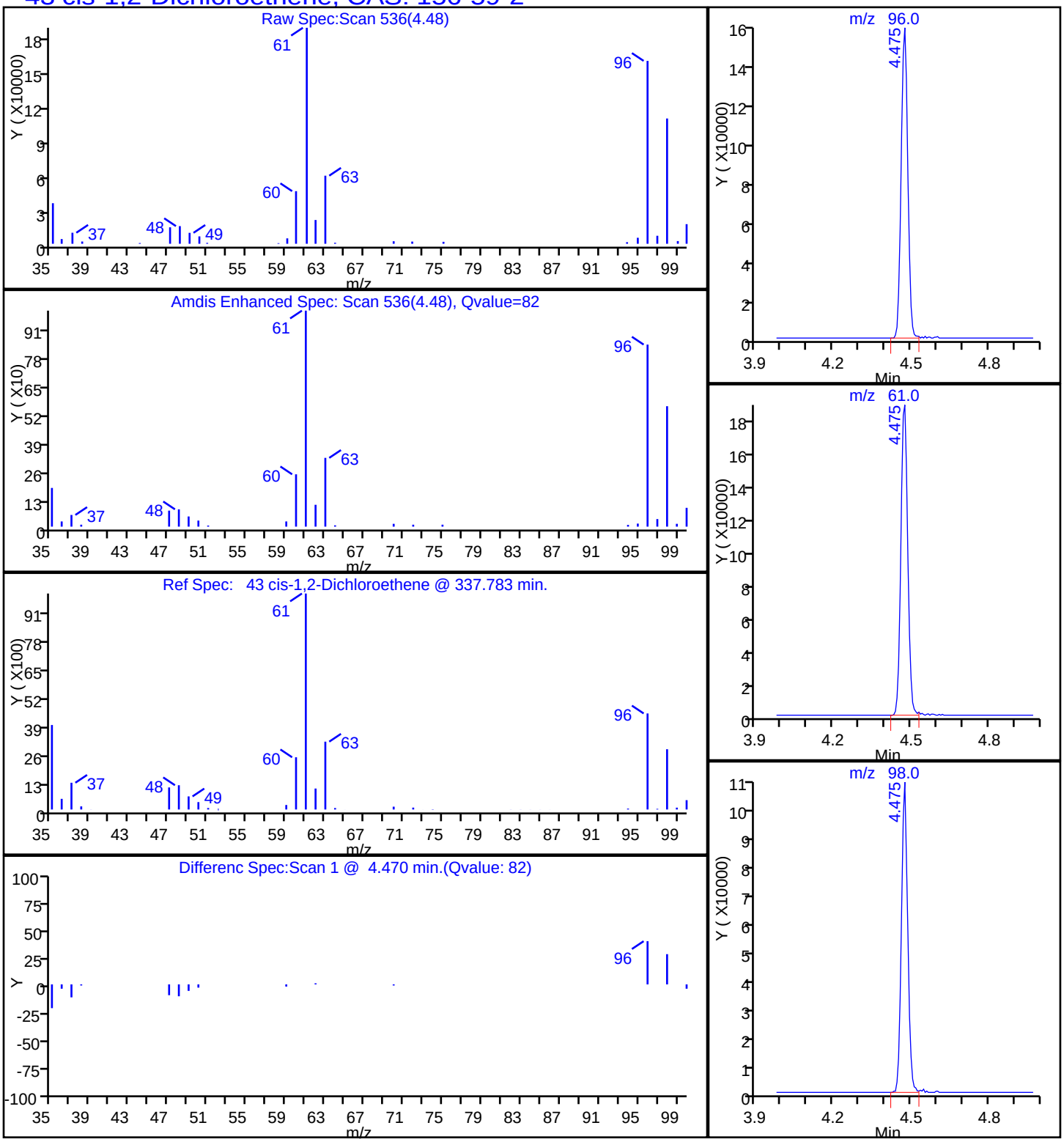


Report Date: 16-Oct-2016 16:41:44 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8918.D				
Injection Date:	15-Oct-2016 20:28:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-A-4	Lab Sample ID:	480-107471-4		
Client ID:	MW-18				
Operator ID:	NEA	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

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

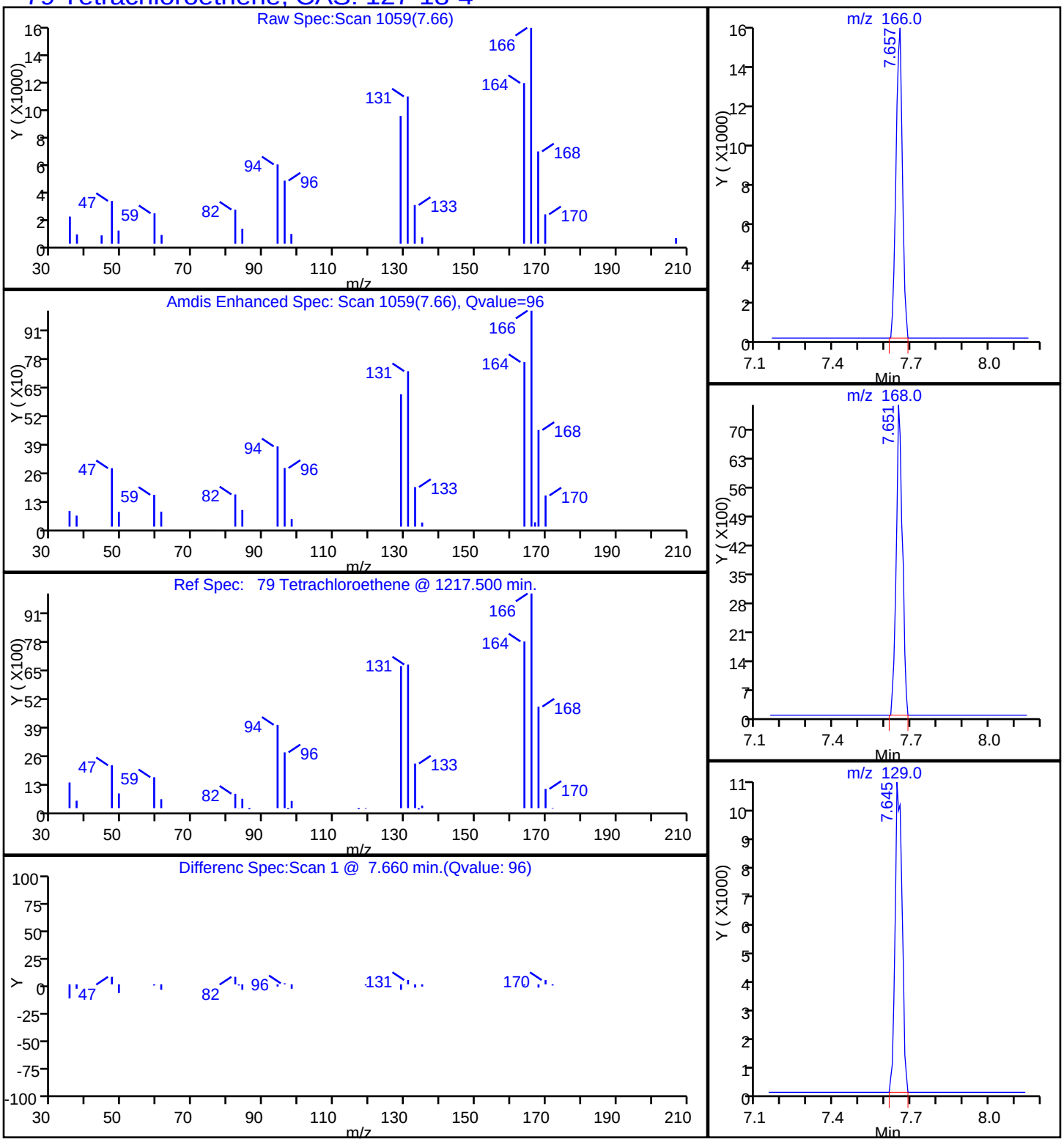


Report Date: 16-Oct-2016 16:41:44 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8918.D				
Injection Date:	15-Oct-2016 20:28:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-A-4	Lab Sample ID:	480-107471-4		
Client ID:	MW-18				
Operator ID:	NEA	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

79 Tetrachloroethene, CAS: 127-18-4

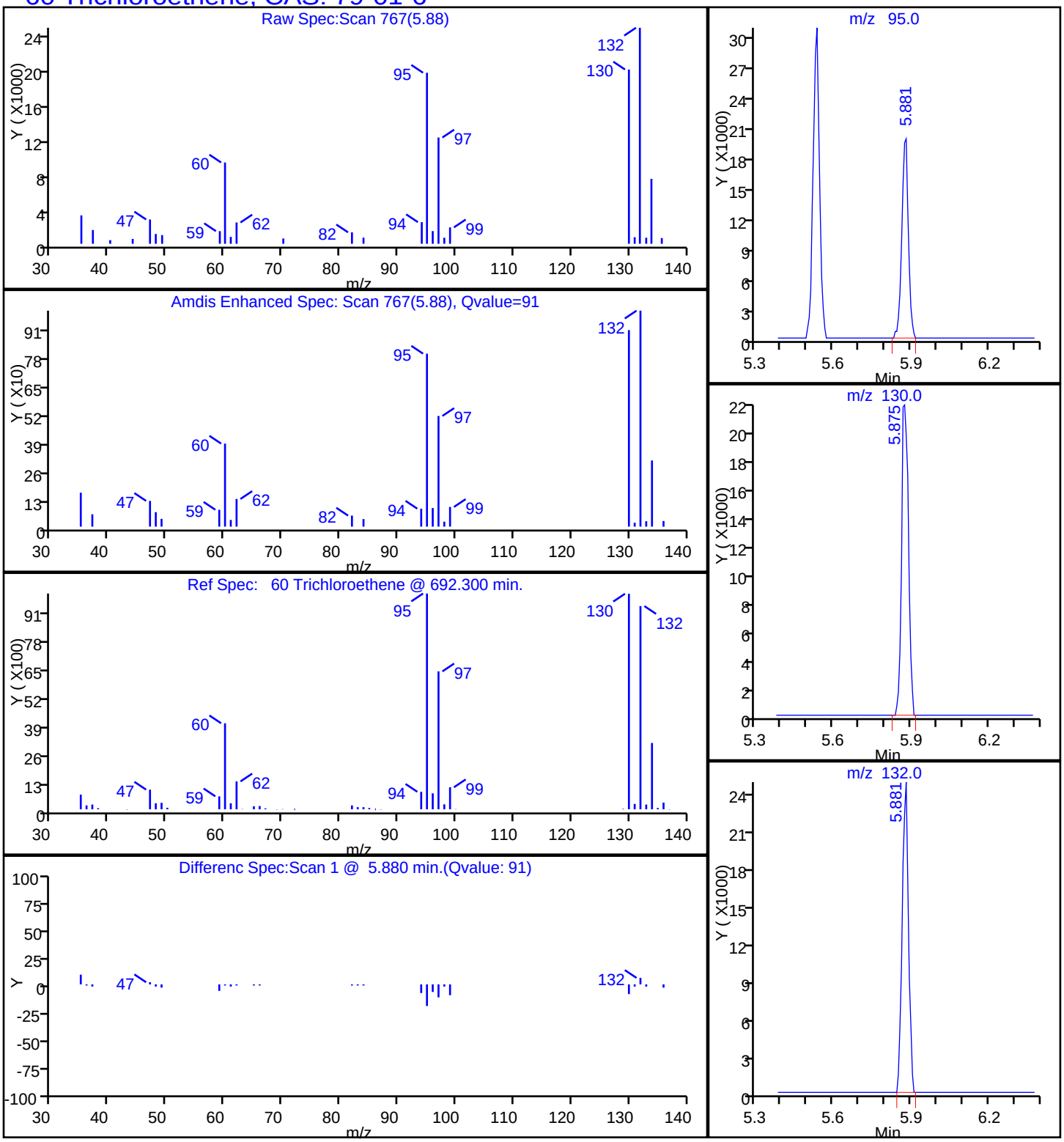


Report Date: 16-Oct-2016 16:41:44 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8918.D				
Injection Date:	15-Oct-2016 20:28:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-A-4	Lab Sample ID:	480-107471-4		
Client ID:	MW-18				
Operator ID:	NEA	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

60 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

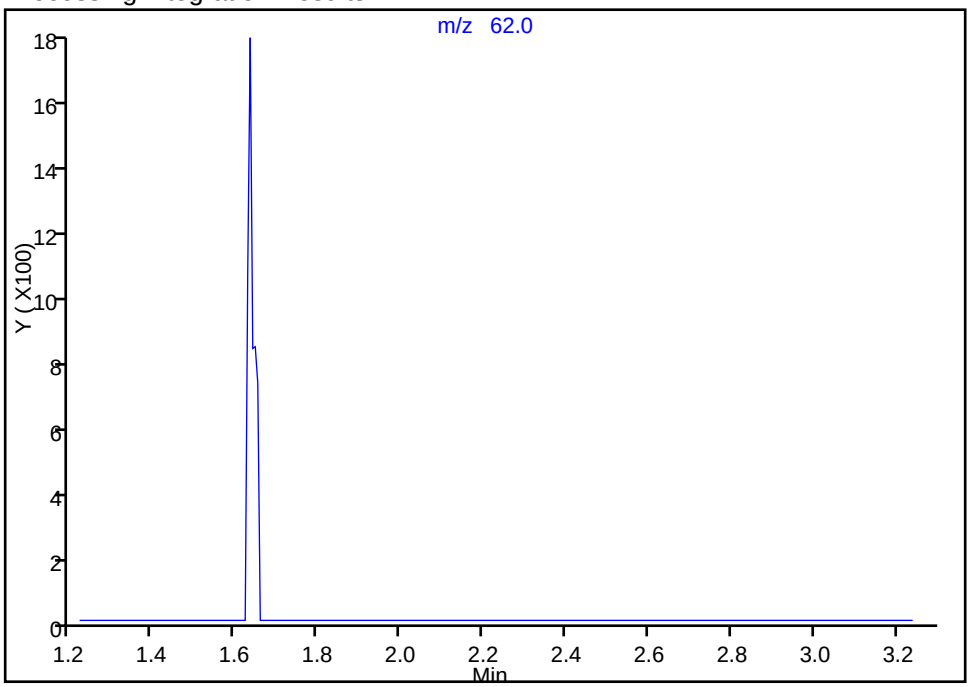
Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8918.D				
Injection Date:	15-Oct-2016 20:28:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-A-4	Lab Sample ID:	480-107471-4		
Client ID:	MW-18				
Operator ID:	NEA	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

14 Vinyl chloride, CAS: 75-01-4

Signal: 1

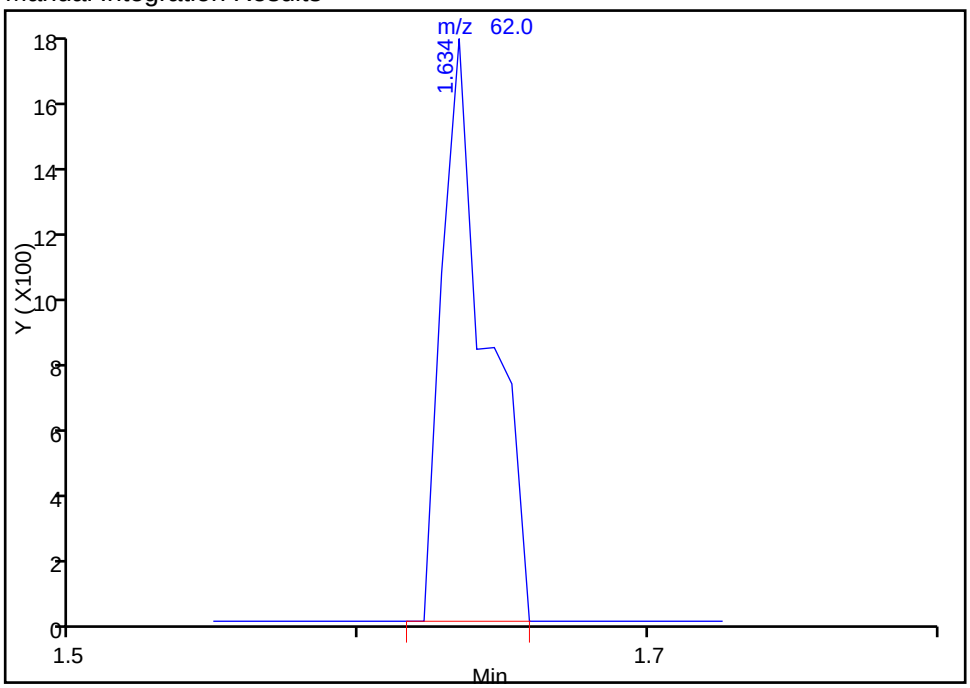
Processing Integration Results

Not Detected
Expected RT: 1.64



Manual Integration Results

RT: 1.63
Area: 1843
Amount: 0.298893
Amount Units: ug/L



Reviewer: gentilej, 16-Oct-2016 16:41:43
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

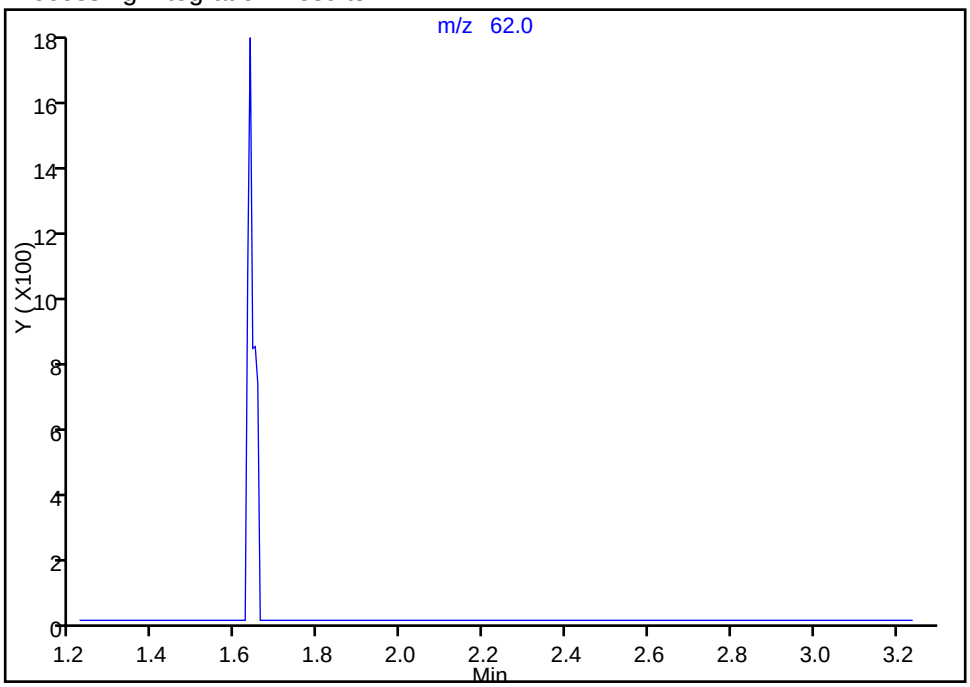
Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8918.D				
Injection Date:	15-Oct-2016 20:28:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-A-4	Lab Sample ID:	480-107471-4		
Client ID:	MW-18				
Operator ID:	NEA	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

14 Vinyl chloride, CAS: 75-01-4

Signal: 1

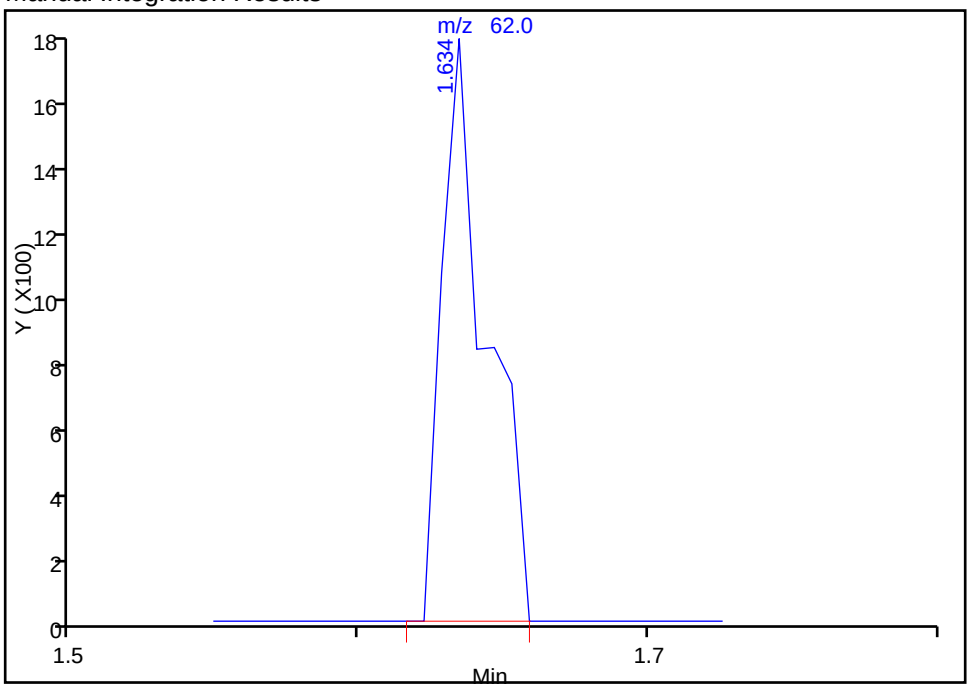
Not Detected
Expected RT: 1.64

Processing Integration Results



Manual Integration Results

RT: 1.63
Area: 1843
Amount: 0.298893
Amount Units: ug/L



Reviewer: gentilej, 16-Oct-2016 16:41:43
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

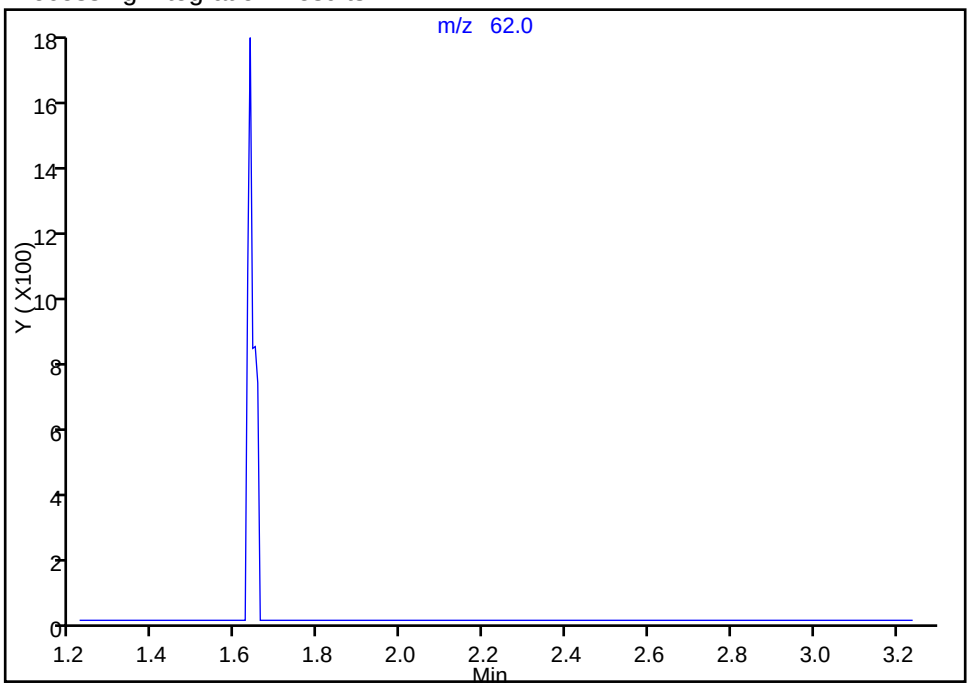
Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8918.D				
Injection Date:	15-Oct-2016 20:28:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-A-4	Lab Sample ID:	480-107471-4		
Client ID:	MW-18				
Operator ID:	NEA	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

14 Vinyl chloride, CAS: 75-01-4

Signal: 1

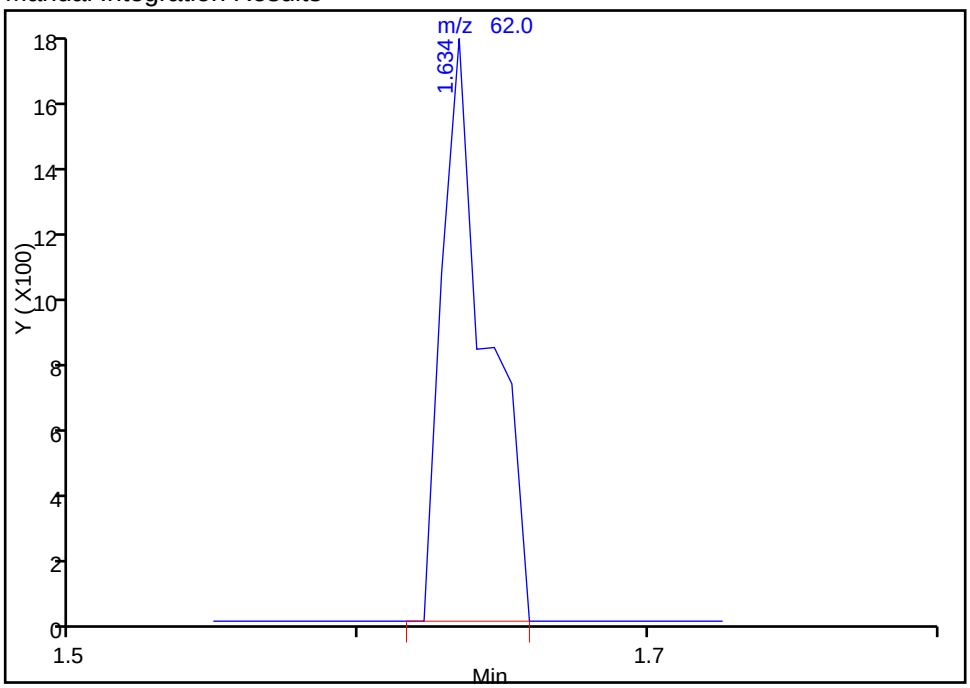
Processing Integration Results

Not Detected
Expected RT: 1.64



Manual Integration Results

RT: 1.63
Area: 1843
Amount: 0.298893
Amount Units: ug/L



Reviewer: gentilej, 16-Oct-2016 16:41:43
Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: MW-20 | Lab Sample ID: 480-107471-5

Matrix: Water | Lab File ID: N8919.D

Analysis Method: 8260C | Date Collected: 10/11/2016 10:05

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2016 20:55

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 325847 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	1.1
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
75-34-3	1,1-Dichloroethane	ND		5.0	1.9
75-35-4	1,1-Dichloroethene	ND		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.0
106-93-4	1,2-Dibromoethane	ND		5.0	3.7
95-50-1	1,2-Dichlorobenzene	ND		5.0	4.0
107-06-2	1,2-Dichloroethane	ND		5.0	1.1
78-87-5	1,2-Dichloropropane	ND		5.0	3.6
541-73-1	1,3-Dichlorobenzene	ND		5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND		5.0	4.2
78-93-3	2-Butanone (MEK)	ND		50	6.6
591-78-6	2-Hexanone	ND		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	11
67-64-1	Acetone	ND		50	15
71-43-2	Benzene	ND		5.0	2.1
75-27-4	Bromodichloromethane	ND		5.0	2.0
75-25-2	Bromoform	ND		5.0	1.3
74-83-9	Bromomethane	ND		5.0	3.5
75-15-0	Carbon disulfide	ND		5.0	0.95
56-23-5	Carbon tetrachloride	ND		5.0	1.4
108-90-7	Chlorobenzene	ND		5.0	3.8
75-00-3	Chloroethane	ND		5.0	1.6
67-66-3	Chloroform	ND		5.0	1.7
74-87-3	Chloromethane	ND		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	ND		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	1.8
110-82-7	Cyclohexane	ND		5.0	0.90
124-48-1	Dibromochloromethane	ND		5.0	1.6
75-71-8	Dichlorodifluoromethane	ND		5.0	3.4
100-41-4	Ethylbenzene	ND		5.0	3.7
98-82-8	Isopropylbenzene	ND		5.0	4.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: MW-20 | Lab Sample ID: 480-107471-5

Matrix: Water | Lab File ID: N8919.D

Analysis Method: 8260C | Date Collected: 10/11/2016 10:05

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2016 20:55

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 325847 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		13	6.5
1634-04-4	Methyl tert-butyl ether	ND		5.0	0.80
108-87-2	Methylcyclohexane	ND		5.0	0.80
75-09-2	Methylene Chloride	ND		5.0	2.2
100-42-5	Styrene	ND		5.0	3.7
127-18-4	Tetrachloroethene	ND		5.0	1.8
108-88-3	Toluene	ND		5.0	2.6
156-60-5	trans-1,2-Dichloroethene	ND		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	1.9
79-01-6	Trichloroethene	ND		5.0	2.3
75-69-4	Trichlorofluoromethane	ND		5.0	4.4
75-01-4	Vinyl chloride	ND		5.0	4.5
1330-20-7	Xylenes, Total	ND		10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		77-120
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8919.D
Lims ID: 480-107471-A-5
Client ID: MW-20
Sample Type: Client
Inject. Date: 15-Oct-2016 20:55:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Sample Info: 480-107471-a-5
Misc. Info.: 480-0057315-009
Operator ID: NEA Instrument ID: HP5973N

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Oct-2016 16:42:34 Calib Date: 06-Oct-2016 06:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK014

First Level Reviewer: gentilej Date: 16-Oct-2016 16:42:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.528	5.534	-0.006	99	96986	25.0	
* 2 Chlorobenzene-d5	117	8.527	8.527	0.000	84	410546	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.906	10.906	0.000	94	231626	25.0	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.242	5.242	0.000	0	168381	28.2	
$ 6 Toluene-d8 (Surr)	98	7.043	7.043	0.000	94	496893	24.8	
$ 7 4-Bromofluorobenzene (Surr	174	9.768	9.774	-0.006	94	183967	25.2	
11 Dichlorodifluoromethane	85		1.379				ND	
13 Chloromethane	50		1.525				ND	
14 Vinyl chloride	62		1.640				ND	
15 Bromomethane	94		1.926				ND	
16 Chloroethane	64		2.042				ND	
18 Trichlorofluoromethane	101		2.285				ND	
22 1,1-Dichloroethene	96		2.778				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.778				ND	
23 Acetone	43		2.869				ND	
25 Carbon disulfide	76		2.973				ND	
28 Methyl acetate	43		3.174				ND	
30 Methylene Chloride	84		3.271				ND	
32 Methyl tert-butyl ether	73		3.502				ND	
33 trans-1,2-Dichloroethene	96	3.508	3.514	-0.006	14	1419	0.2395	
36 1,1-Dichloroethane	63		3.922				ND	
43 cis-1,2-Dichloroethene	96		4.469				ND	
44 2-Butanone (MEK)	43		4.494				ND	
50 Chloroform	83	4.779	4.779	-0.001	1	830	0.0815	7M
51 1,1,1-Trichloroethane	97		4.907				ND	
52 Cyclohexane	56		4.938				ND	
53 Carbon tetrachloride	117		5.059				ND	
55 Benzene	78		5.260				ND	
57 1,2-Dichloroethane	62		5.309				ND	
60 Trichloroethene	95		5.875				ND	
62 Methylcyclohexane	83		6.015				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
63 1,2-Dichloropropane	63		6.100				ND	
67 Dichlorobromomethane	83		6.386				ND	
71 cis-1,3-Dichloropropene	75		6.805				ND	
72 4-Methyl-2-pentanone (MIBK	58		6.945				ND	
73 Toluene	92		7.110				ND	
75 trans-1,3-Dichloropropene	75		7.371				ND	
78 1,1,2-Trichloroethane	83		7.554				ND	
79 Tetrachloroethene	166		7.651				ND	
82 2-Hexanone	43		7.785				ND	
83 Chlorodibromomethane	129		7.955				ND	
84 Ethylene Dibromide	107		8.065				ND	
85 Chlorobenzene	112		8.557				ND	
88 Ethylbenzene	91		8.655				ND	
90 m-Xylene & p-Xylene	106		8.776				ND	
91 o-Xylene	106		9.202				ND	
92 Styrene	104		9.227				ND	
93 Bromoform	173		9.458				ND	
95 Isopropylbenzene	105		9.586				ND	
98 1,1,2,2-Tetrachloroethane	83		9.957				ND	
110 1,3-Dichlorobenzene	146		10.845				ND	
113 1,4-Dichlorobenzene	146		10.930				ND	
116 1,2-Dichlorobenzene	146		11.277				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.995				ND	
119 1,2,4-Trichlorobenzene	180		12.688				ND	
S 126 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

N_8260_Surr_00211	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00038	Amount Added:	1.00	Units: uL	Run Reagent

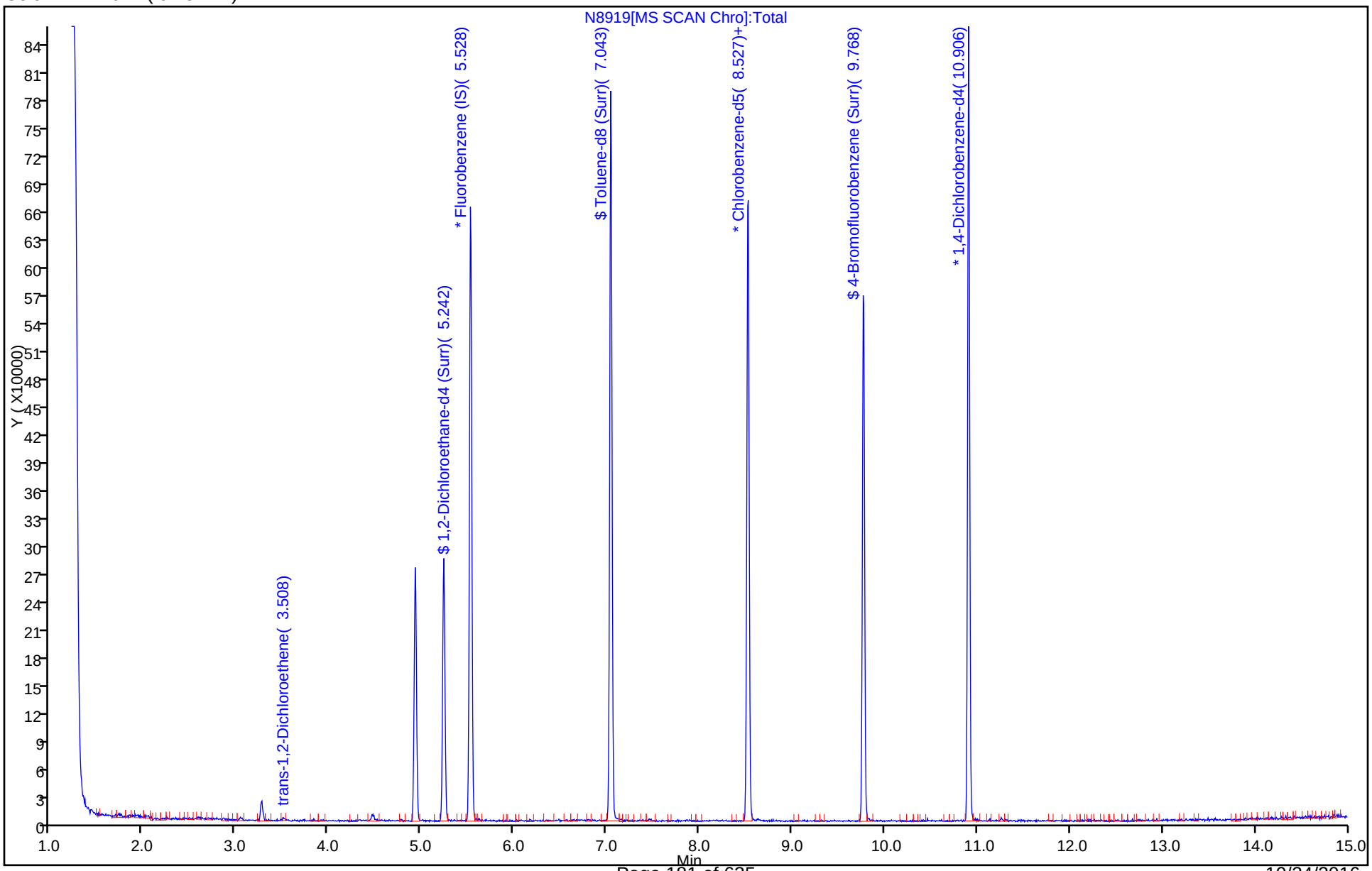
Report Date: 16-Oct-2016 16:42:34 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8919.D

Injection Date:	15-Oct-2016 20:55:30	Instrument ID:	HP5973N	Operator ID:	NEA
Lims ID:	480-107471-A-5	Lab Sample ID:	480-107471-5	Worklist Smp#:	9
Client ID:	MW-20				
Purge Vol:	5.000 mL	Dil. Factor:	5.0000	ALS Bottle#:	9
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Recovery Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8919.D				
Lims ID:	480-107471-A-5				
Client ID:	MW-20				
Sample Type:	Client				
Inject. Date:	15-Oct-2016 20:55:30	ALS Bottle#:	9	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Sample Info:	480-107471-a-5				
Misc. Info.:	480-0057315-009				
Operator ID:	NEA	Instrument ID:	HP5973N		

Method:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N-8260.m		
Limit Group:	MV - 8260C ICAL		
Last Update:	16-Oct-2016 16:42:34	Calib Date:	06-Oct-2016 06:56:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D		

Column 1 :	ZB-624 (0.25 mm)	Det: MS SCAN
Process Host:	XAWRK014	

First Level Reviewer: gentilej Date: 16-Oct-2016 16:42:34

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	0.0	0	0.00
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	28.2	112.72
$ 6 Toluene-d8 (Surr)	25.0	24.8	99.32
$ 7 4-Bromofluorobenzene (Surr)	25.0	25.2	100.77

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

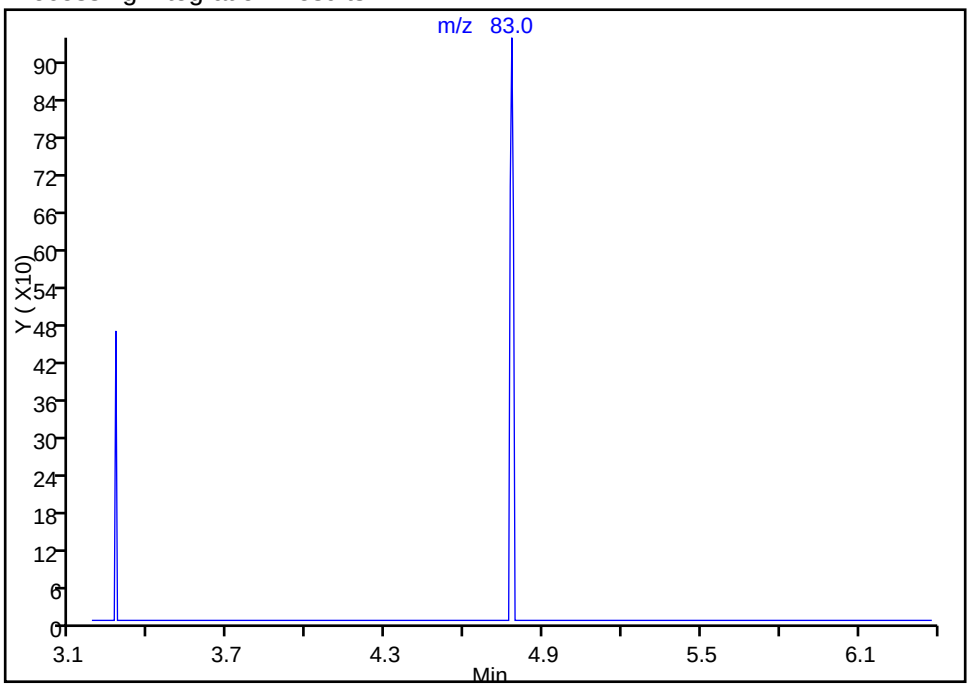
Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8919.D				
Injection Date:	15-Oct-2016 20:55:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-A-5	Lab Sample ID:	480-107471-5		
Client ID:	MW-20				
Operator ID:	NEA	ALS Bottle#:	9	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

50 Chloroform, CAS: 67-66-3

Signal: 1

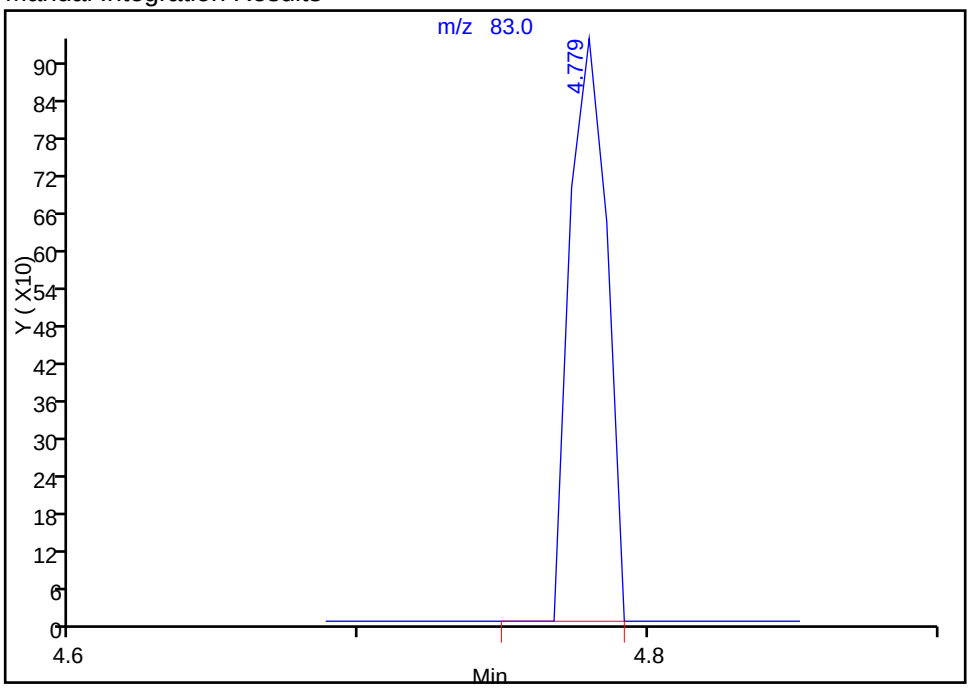
Processing Integration Results

Not Detected
Expected RT: 4.78



Manual Integration Results

RT: 4.78
Area: 830
Amount: 0.081488
Amount Units: ug/L



Reviewer: gentilej, 16-Oct-2016 16:42:34
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

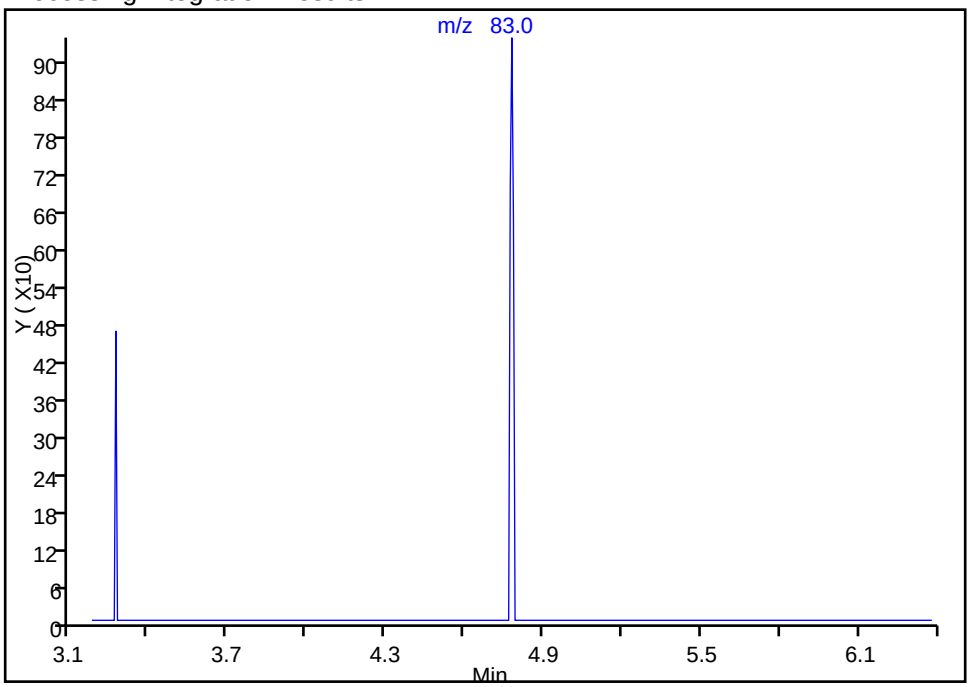
Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8919.D				
Injection Date:	15-Oct-2016 20:55:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-A-5	Lab Sample ID:	480-107471-5		
Client ID:	MW-20				
Operator ID:	NEA	ALS Bottle#:	9	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

50 Chloroform, CAS: 67-66-3

Signal: 1

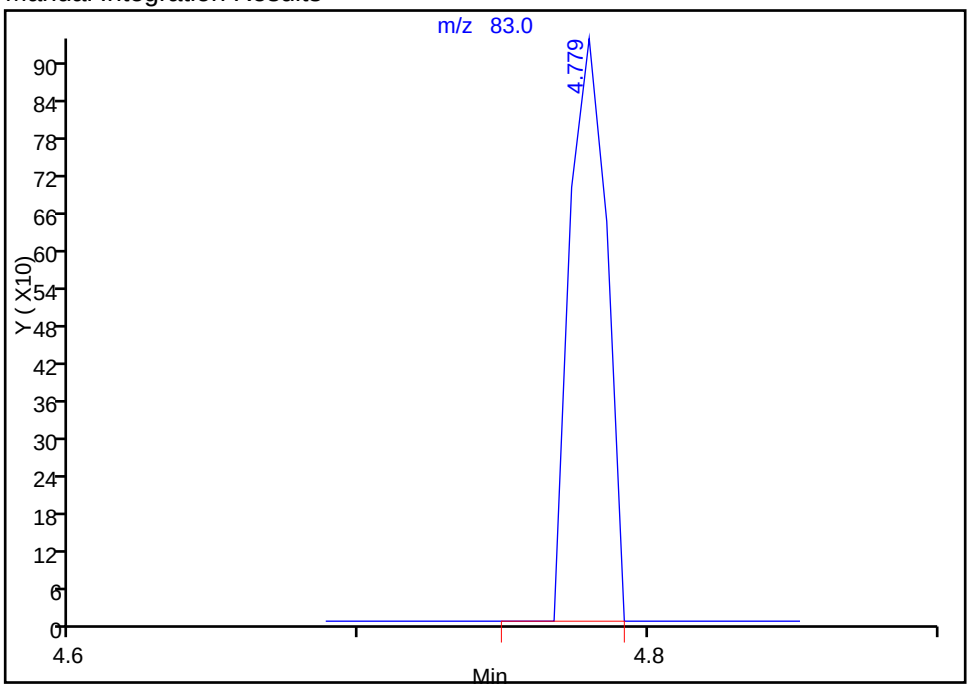
Processing Integration Results

Not Detected
Expected RT: 4.78



Manual Integration Results

RT: 4.78
Area: 830
Amount: 0.081488
Amount Units: ug/L



Reviewer: gentilej, 16-Oct-2016 16:42:34
Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: MW-21 | Lab Sample ID: 480-107471-6

Matrix: Water | Lab File ID: N8920.D

Analysis Method: 8260C | Date Collected: 10/11/2016 09:25

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2016 21:22

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 325847 | 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.: 480-107471-1

SDG No.:

Client Sample ID: MW-21 | Lab Sample ID: 480-107471-6

Matrix: Water | Lab File ID: N8920.D

Analysis Method: 8260C | Date Collected: 10/11/2016 09:25

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2016 21:22

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 325847 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
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	3.4		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)	113		77-120
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8920.D
Lims ID: 480-107471-A-6
Client ID: MW-21
Sample Type: Client
Inject. Date: 15-Oct-2016 21:22:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-107471-a-6
Misc. Info.: 480-0057315-010
Operator ID: NEA Instrument ID: HP5973N

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Oct-2016 16:42:34 Calib Date: 06-Oct-2016 06:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK014

First Level Reviewer: gentilej Date: 16-Oct-2016 16:44:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.528	5.534	-0.006	99	96938	25.0	
* 2 Chlorobenzene-d5	117	8.527	8.527	0.000	85	403159	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.906	10.906	0.000	94	226653	25.0	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.242	5.242	0.000	0	168515	28.2	
$ 6 Toluene-d8 (Surr)	98	7.043	7.043	0.000	93	486203	24.7	
$ 7 4-Bromofluorobenzene (Surr	174	9.774	9.774	0.000	96	176531	24.6	
11 Dichlorodifluoromethane	85		1.379				ND	
13 Chloromethane	50		1.525				ND	
14 Vinyl chloride	62	1.634	1.640	-0.006	97	19833	3.38	
15 Bromomethane	94		1.926				ND	
16 Chloroethane	64		2.042				ND	
18 Trichlorofluoromethane	101		2.285				ND	
22 1,1-Dichloroethene	96		2.778				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.778				ND	
23 Acetone	43	2.875	2.869	0.006	69	2735	1.25	
25 Carbon disulfide	76		2.973				ND	
28 Methyl acetate	43		3.174				ND	
30 Methylene Chloride	84		3.271				ND	
32 Methyl tert-butyl ether	73		3.502				ND	
33 trans-1,2-Dichloroethene	96		3.514				ND	
36 1,1-Dichloroethane	63		3.922				ND	
43 cis-1,2-Dichloroethene	96		4.469				ND	
44 2-Butanone (MEK)	43		4.494				ND	
50 Chloroform	83		4.780				ND	
51 1,1,1-Trichloroethane	97		4.907				ND	
52 Cyclohexane	56		4.938				ND	
53 Carbon tetrachloride	117		5.059				ND	
55 Benzene	78		5.260				ND	
57 1,2-Dichloroethane	62		5.309				ND	
60 Trichloroethene	95		5.875				ND	
62 Methylcyclohexane	83		6.015				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
63 1,2-Dichloropropane	63		6.100				ND	
67 Dichlorobromomethane	83		6.386				ND	
71 cis-1,3-Dichloropropene	75		6.805				ND	
72 4-Methyl-2-pentanone (MIBK	58		6.945				ND	
73 Toluene	92		7.110				ND	
75 trans-1,3-Dichloropropene	75		7.371				ND	
78 1,1,2-Trichloroethane	83		7.554				ND	
79 Tetrachloroethene	166		7.651				ND	
82 2-Hexanone	43		7.785				ND	
83 Chlorodibromomethane	129		7.955				ND	
84 Ethylene Dibromide	107		8.065				ND	
85 Chlorobenzene	112		8.557				ND	
88 Ethylbenzene	91		8.655				ND	
90 m-Xylene & p-Xylene	106		8.776				ND	
91 o-Xylene	106		9.202				ND	
92 Styrene	104		9.227				ND	
93 Bromoform	173		9.458				ND	
95 Isopropylbenzene	105		9.586				ND	
98 1,1,2,2-Tetrachloroethane	83		9.957				ND	
110 1,3-Dichlorobenzene	146		10.845				ND	
113 1,4-Dichlorobenzene	146		10.930				ND	
116 1,2-Dichlorobenzene	146		11.277				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.995				ND	
119 1,2,4-Trichlorobenzene	180		12.688				ND	
S 126 Xylenes, Total	1		30.000				ND	

Reagents:

N_8260_Surr_00211	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00038	Amount Added: 1.00	Units: uL	Run Reagent

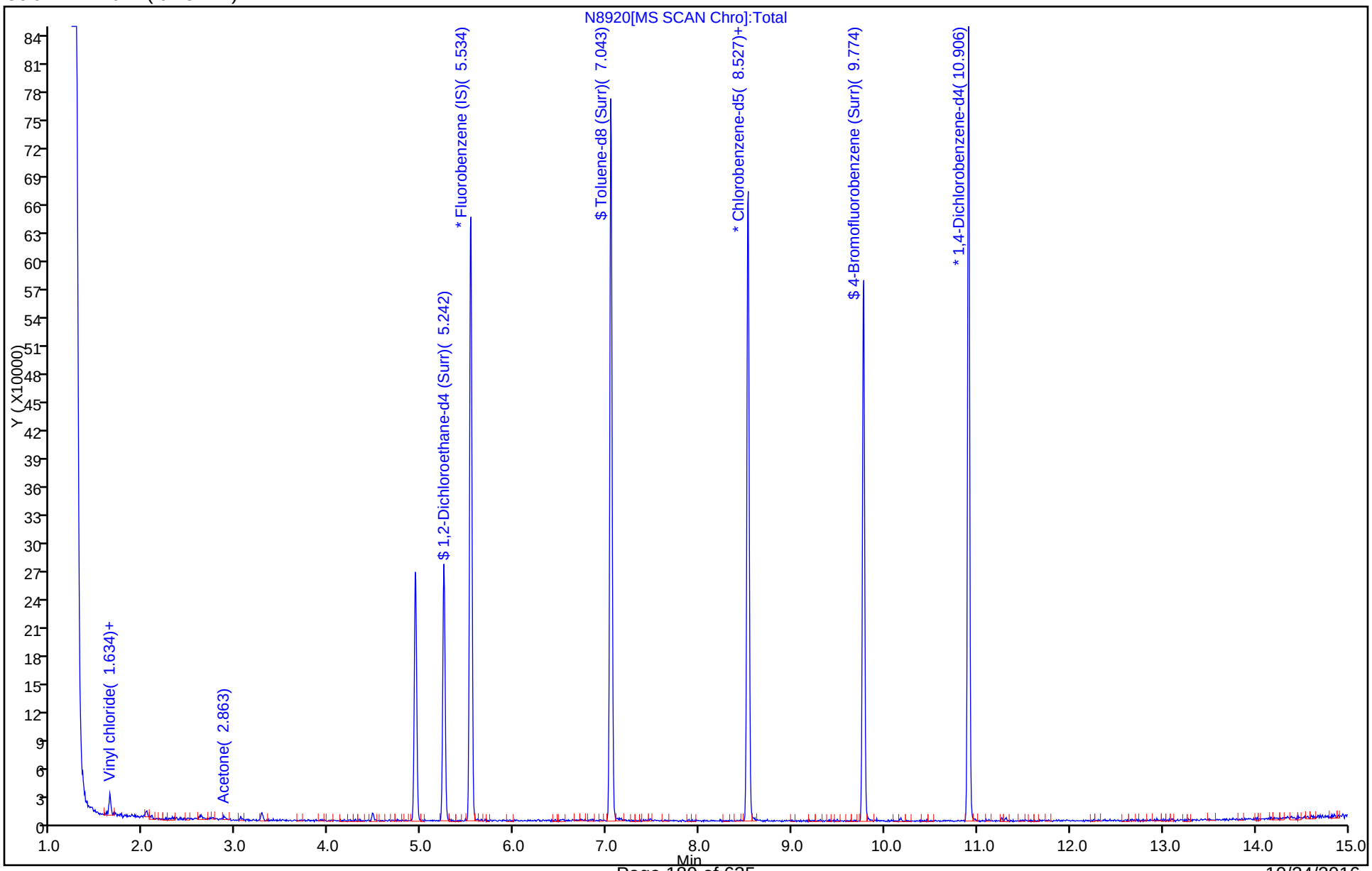
Report Date: 16-Oct-2016 16:44:16 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8920.D

Injection Date:	15-Oct-2016 21:22:30	Instrument ID:	HP5973N	Operator ID:	NEA
Lims ID:	480-107471-A-6	Lab Sample ID:	480-107471-6	Worklist Smp#:	10
Client ID:	MW-21				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Recovery Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8920.D				
Lims ID:	480-107471-A-6				
Client ID:	MW-21				
Sample Type:	Client				
Inject. Date:	15-Oct-2016 21:22:30	ALS Bottle#:	10	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	480-107471-a-6				
Misc. Info.:	480-0057315-010				
Operator ID:	NEA	Instrument ID:	HP5973N		

Method:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N-8260.m		
Limit Group:	MV - 8260C ICAL		
Last Update:	16-Oct-2016 16:42:34	Calib Date:	06-Oct-2016 06:56:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D		

Column 1 :	ZB-624 (0.25 mm)	Det: MS SCAN
Process Host:	XAWRK014	

First Level Reviewer: gentilej Date: 16-Oct-2016 16:44:16

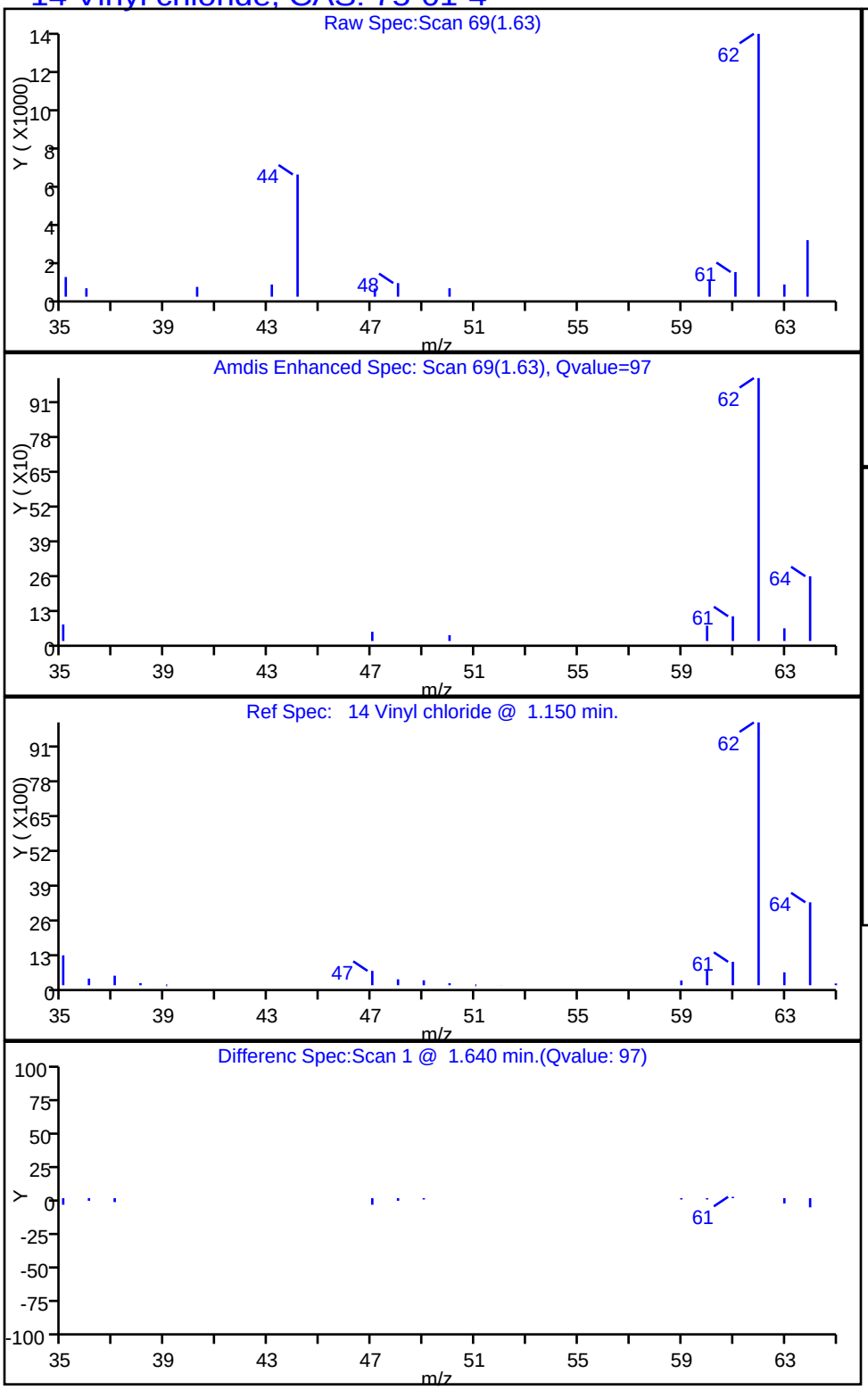
Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	0.0	0	0.00
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	28.2	112.86
$ 6 Toluene-d8 (Surr)	25.0	24.7	98.96
$ 7 4-Bromofluorobenzene (Surr)	25.0	24.6	98.47

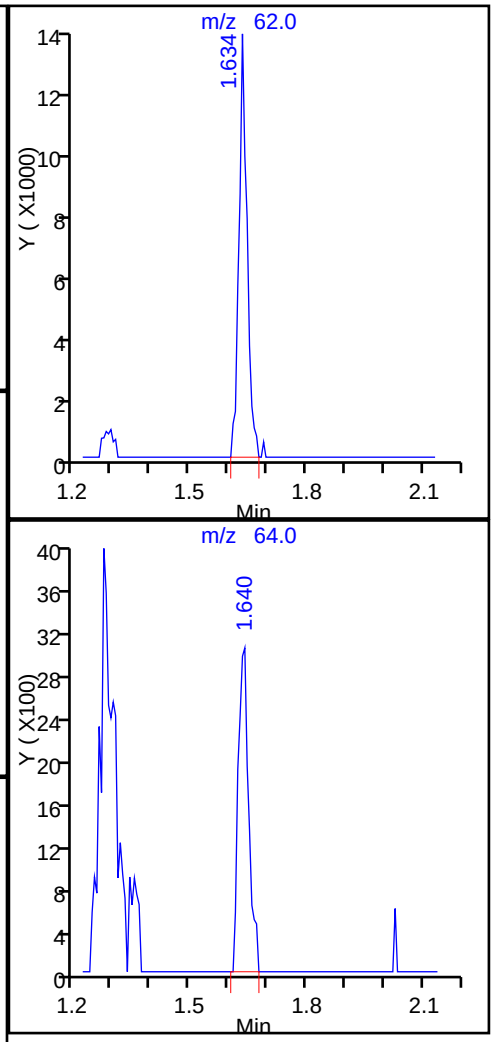
Report Date: 16-Oct-2016 16:44:16 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8920.D				
Injection Date:	15-Oct-2016 21:22:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-A-6	Lab Sample ID:	480-107471-6		
Client ID:	MW-21				
Operator ID:	NEA	ALS Bottle#:	10	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

14 Vinyl chloride, CAS: 75-01-4





FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1
SDG No.:
Client Sample ID: PZ-5 | Lab Sample ID: 480-107471-7
Matrix: Water | Lab File ID: P1428.D
Analysis Method: 8260C | Date Collected: 10/10/2016 13:55
Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2016 03:52
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.: 325765 | 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	35		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.: 480-107471-1

SDG No.:

Client Sample ID: PZ-5 | Lab Sample ID: 480-107471-7

Matrix: Water | Lab File ID: P1428.D

Analysis Method: 8260C | Date Collected: 10/10/2016 13:55

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2016 03:52

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.: 325765 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
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	11		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	19		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	1.1		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)	111		77-120
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57299.b\P1428.D
Lims ID: 480-107471-B-7
Client ID: PZ-5
Sample Type: Client
Inject. Date: 15-Oct-2016 03:52:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-107471-B-7
Misc. Info.: 480-0057299-016
Operator ID: SY Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57299.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 15-Oct-2016 13:37:06 Calib Date: 15-Sep-2016 21:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: farrellr Date: 15-Oct-2016 13:37:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.828	9.821	0.007	98	86551	25.0	
* 2 Chlorobenzene-d5	82	13.764	13.764	0.000	86	182916	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.751	16.751	0.000	96	210509	25.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.450	9.456	-0.006	0	76696	27.6	
$ 5 Toluene-d8 (Surr)	98	11.799	11.799	0.000	93	388179	23.9	
$ 6 4-Bromofluorobenzene (Surr	174	15.278	15.272	0.006	90	136638	24.6	
10 Dichlorodifluoromethane	85		3.987				ND	
11 Chloromethane	50		4.322				ND	
17 Vinyl chloride	62	4.535	4.535	0.000	22	5785	1.06	
12 Bromomethane	94		5.094				ND	
13 Chloroethane	64		5.210				ND	
14 Trichlorofluoromethane	101		5.611				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.250				ND	
25 1,1-Dichloroethene	96		6.293				ND	
24 Acetone	43	6.329	6.329	0.006	67	3954	1.11	7
27 Carbon disulfide	76		6.670				ND	
30 Methyl acetate	43		6.700				ND	
31 Methylene Chloride	84		6.913				ND	
32 Methyl tert-butyl ether	73		7.163				ND	
35 trans-1,2-Dichloroethene	96	7.236	7.230	0.006	88	2819	0.4619	
40 1,1-Dichloroethane	63		7.753				ND	
44 2-Butanone (MEK)	43		8.398				ND	
43 cis-1,2-Dichloroethene	96	8.459	8.452	0.007	83	236915	35.4	
49 Chloroform	83		8.805				ND	
52 1,1,1-Trichloroethane	97		9.067				ND	
54 Cyclohexane	56		9.134				ND	
55 Carbon tetrachloride	117		9.274				ND	
57 Benzene	78		9.517				ND	
60 1,2-Dichloroethane	62		9.541				ND	
62 Trichloroethene	95	10.278	10.271	0.007	94	119908	18.8	
64 Methylcyclohexane	83		10.509				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
63 1,2-Dichloropropane	63		10.582				ND	
70 Dichlorobromomethane	83		10.904				ND	
73 cis-1,3-Dichloropropene	75		11.446				ND	
75 4-Methyl-2-pentanone (MIBK	43		11.555				ND	
76 Toluene	92		11.884				ND	
78 trans-1,3-Dichloropropene	75		12.145				ND	
79 1,1,2-Trichloroethane	83		12.425				ND	
80 Tetrachloroethene	166	12.638	12.632	0.006	94	76238	11.0	
83 2-Hexanone	43		12.638				ND	
81 Chlorodibromomethane	129		13.015				ND	
85 Ethylene Dibromide	107		13.210				ND	
87 Chlorobenzene	112		13.800				ND	
89 Ethylbenzene	91		13.867				ND	
90 m-Xylene & p-Xylene	106		14.007				ND	
93 o-Xylene	106		14.560				ND	
94 Styrene	104		14.579				ND	
92 Bromoform	173		14.931				ND	
95 Isopropylbenzene	105		14.998				ND	
97 1,1,2,2-Tetrachloroethane	83		15.424				ND	
110 1,3-Dichlorobenzene	146		16.677				ND	
111 1,4-Dichlorobenzene	146		16.781				ND	
116 1,2-Dichlorobenzene	146		17.267				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.241				ND	
119 1,2,4-Trichlorobenzene	180		19.318				ND	
S 126 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

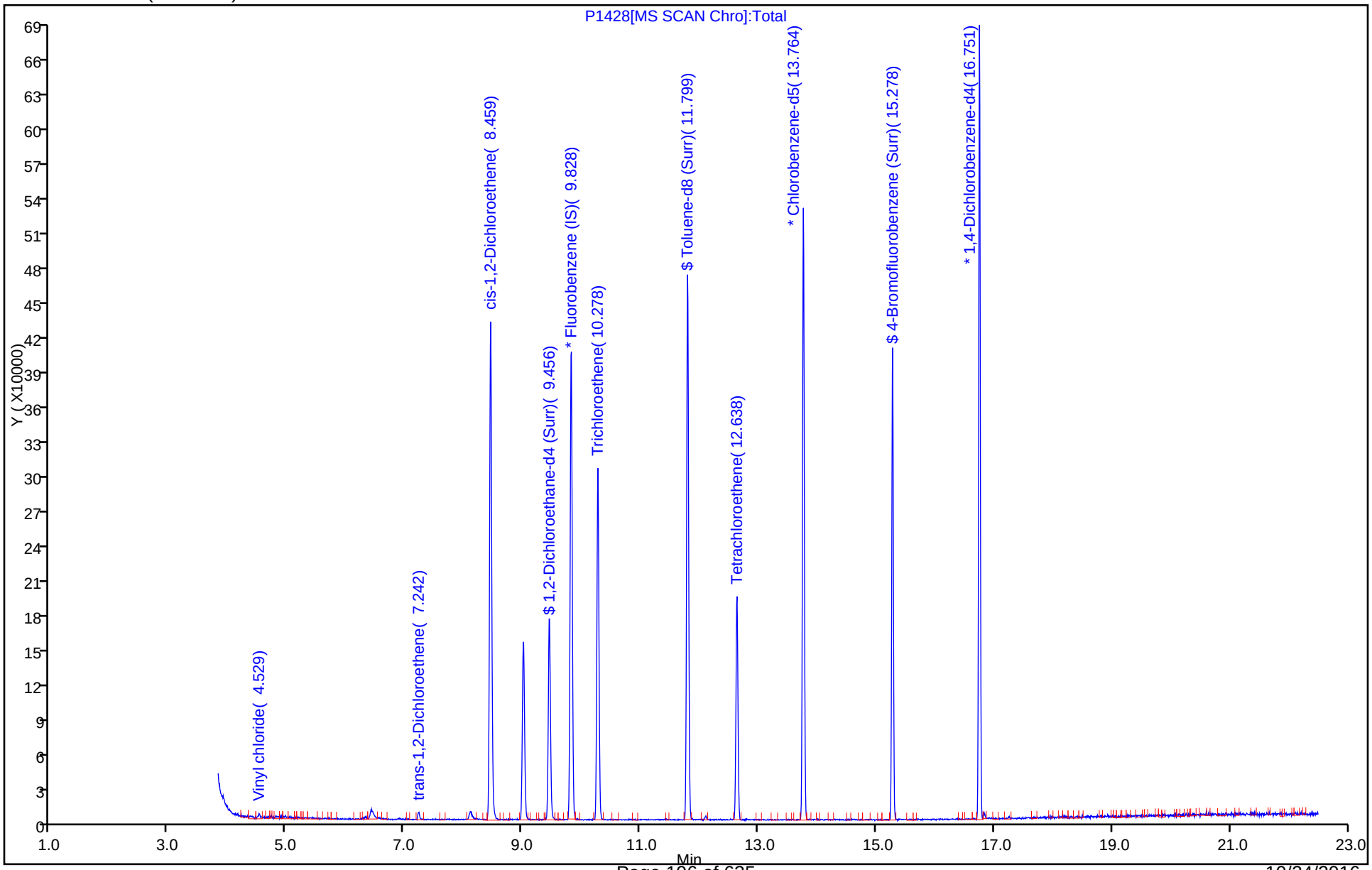
P 8260 IS_00173	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00197	Amount Added:	1.25	Units: uL	Run Reagent

Report Date: 15-Oct-2016 13:37:13 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57299.b\P1428.D				
Injection Date:	15-Oct-2016 03:52:30	Instrument ID:	HP5973P	Operator ID:	SY
Lims ID:	480-107471-B-7	Lab Sample ID:	480-107471-7	Worklist Smp#:	16
Client ID:	PZ-5				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Recovery Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57299.b\P1428.D				
Lims ID:	480-107471-B-7				
Client ID:	PZ-5				
Sample Type:	Client				
Inject. Date:	15-Oct-2016 03:52:30	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	480-107471-B-7				
Misc. Info.:	480-0057299-016				
Operator ID:	SY	Instrument ID:	HP5973P		

Method:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57299.b\P-8260H2O.m		
Limit Group:	MV - 8260C ICAL		
Last Update:	15-Oct-2016 13:37:06	Calib Date:	15-Sep-2016 21:21:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D		

Column 1 :	ZB-624 (0.25 mm)	Det: MS SCAN
Process Host:	XAWRK030	

First Level Reviewer: farrellr Date: 15-Oct-2016 13:37:13

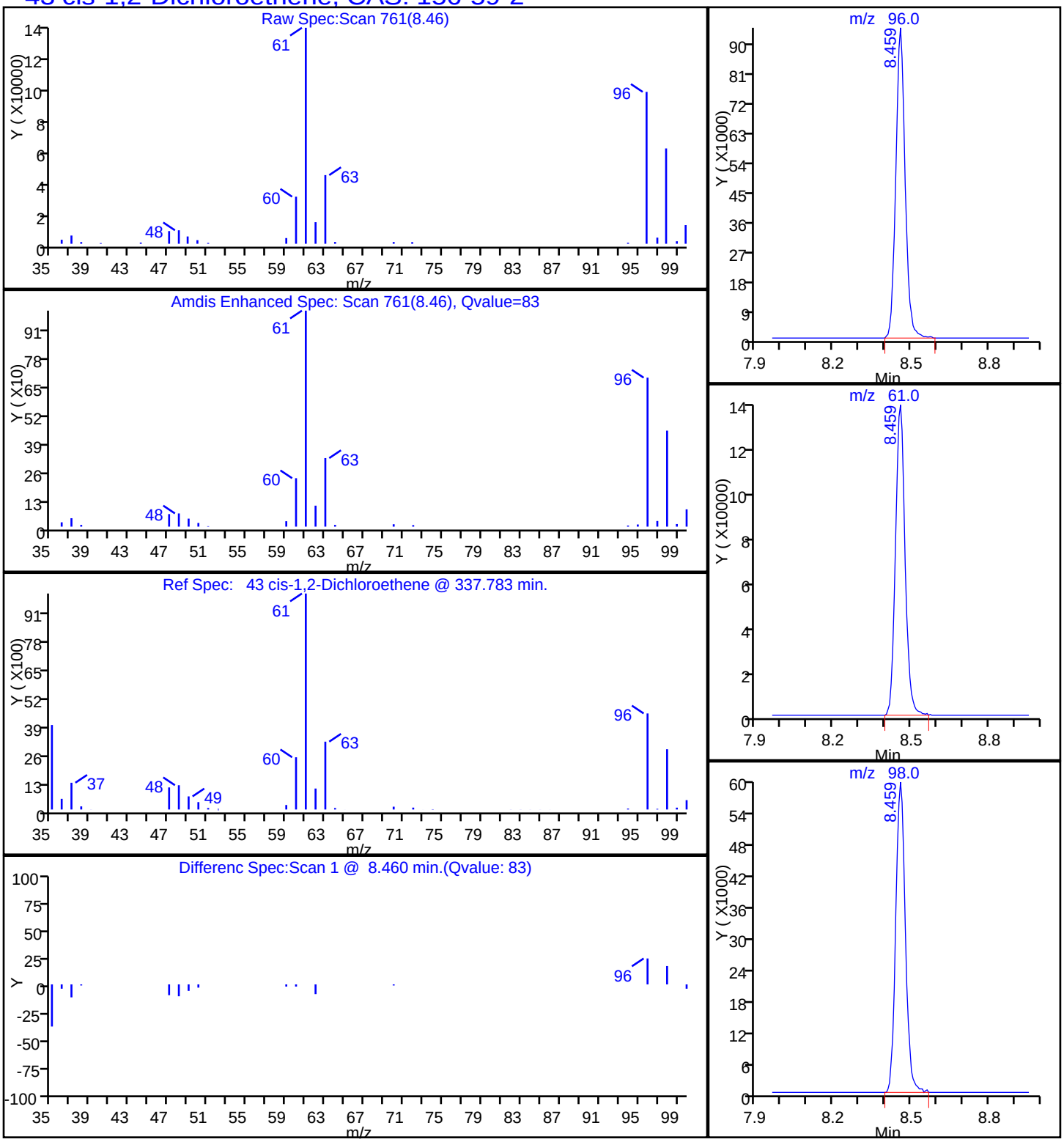
Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	0.0	0	0.00
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	27.6	110.59
$ 5 Toluene-d8 (Surr)	25.0	23.9	95.59
$ 6 4-Bromofluorobenzene (Surr)	25.0	24.6	98.22

Report Date: 15-Oct-2016 13:37:13 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57299.b\P1428.D				
Injection Date:	15-Oct-2016 03:52:30	Instrument ID:	HP5973P		
Lims ID:	480-107471-B-7	Lab Sample ID:	480-107471-7		
Client ID:	PZ-5				
Operator ID:	SY	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

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

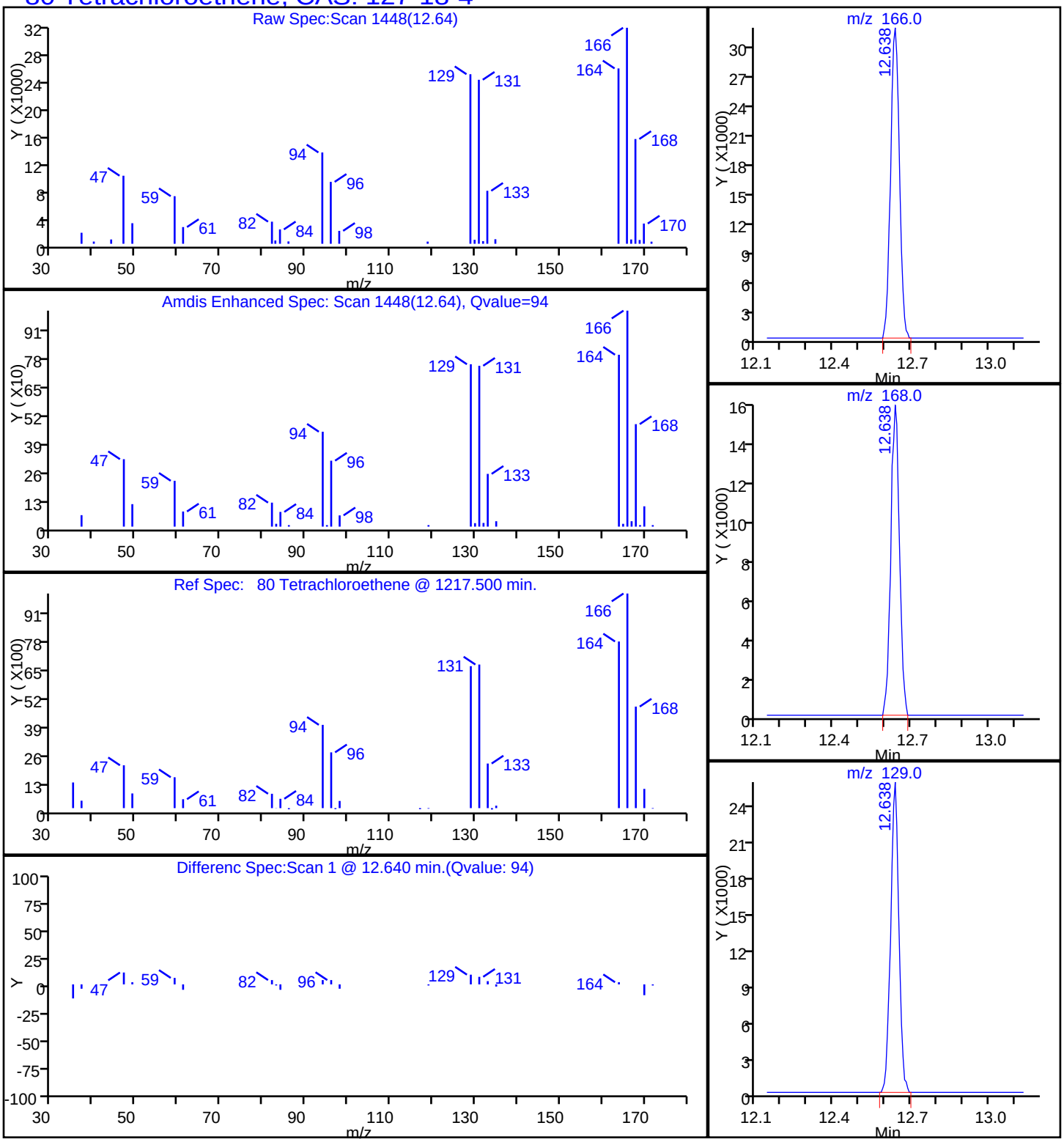


Report Date: 15-Oct-2016 13:37:13 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57299.b\P1428.D				
Injection Date:	15-Oct-2016 03:52:30	Instrument ID:	HP5973P		
Lims ID:	480-107471-B-7	Lab Sample ID:	480-107471-7		
Client ID:	PZ-5				
Operator ID:	SY	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

80 Tetrachloroethene, CAS: 127-18-4

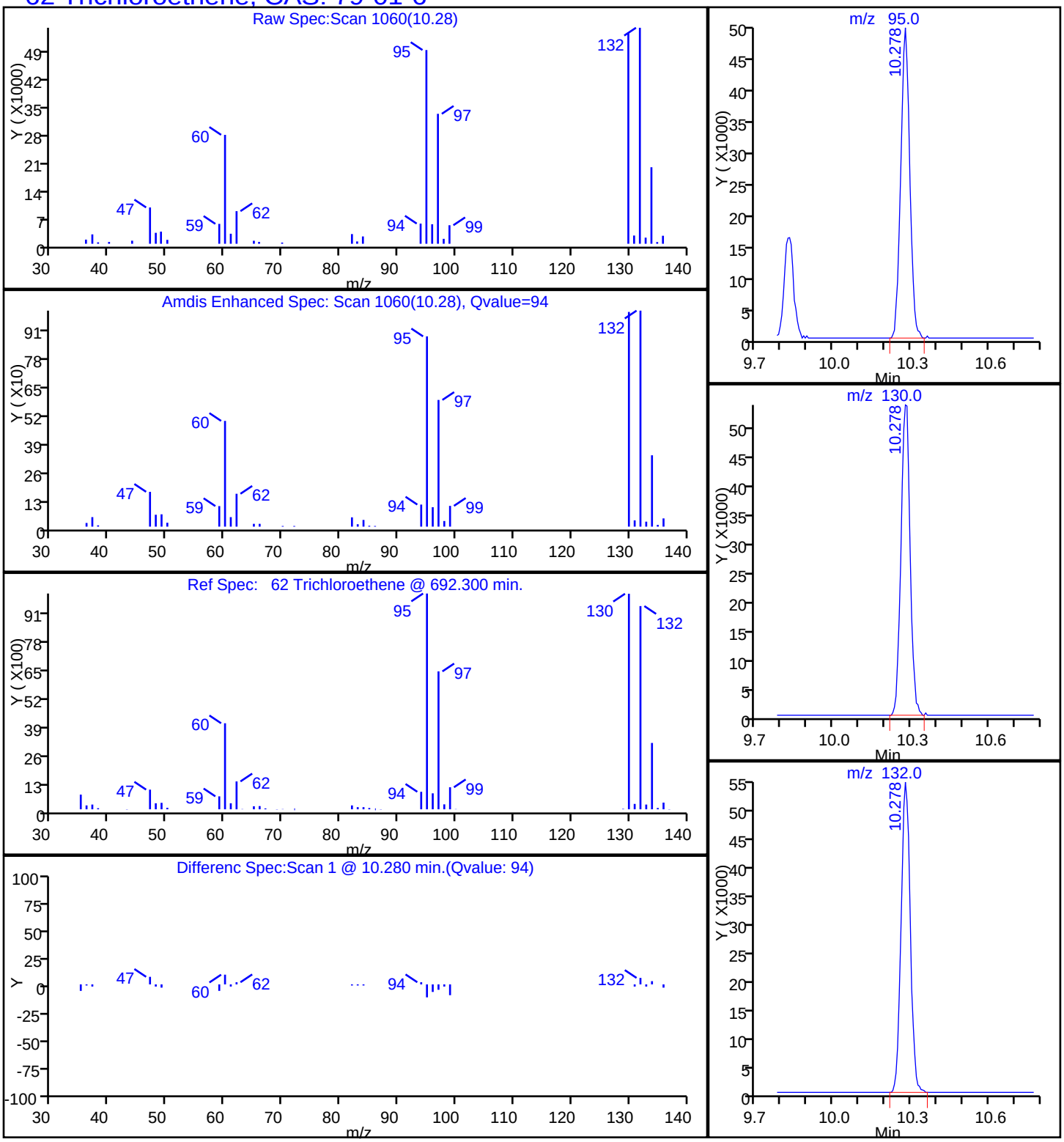


Report Date: 15-Oct-2016 13:37:13 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57299.b\P1428.D				
Injection Date:	15-Oct-2016 03:52:30	Instrument ID:	HP5973P		
Lims ID:	480-107471-B-7	Lab Sample ID:	480-107471-7		
Client ID:	PZ-5				
Operator ID:	SY	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

62 Trichloroethene, CAS: 79-01-6

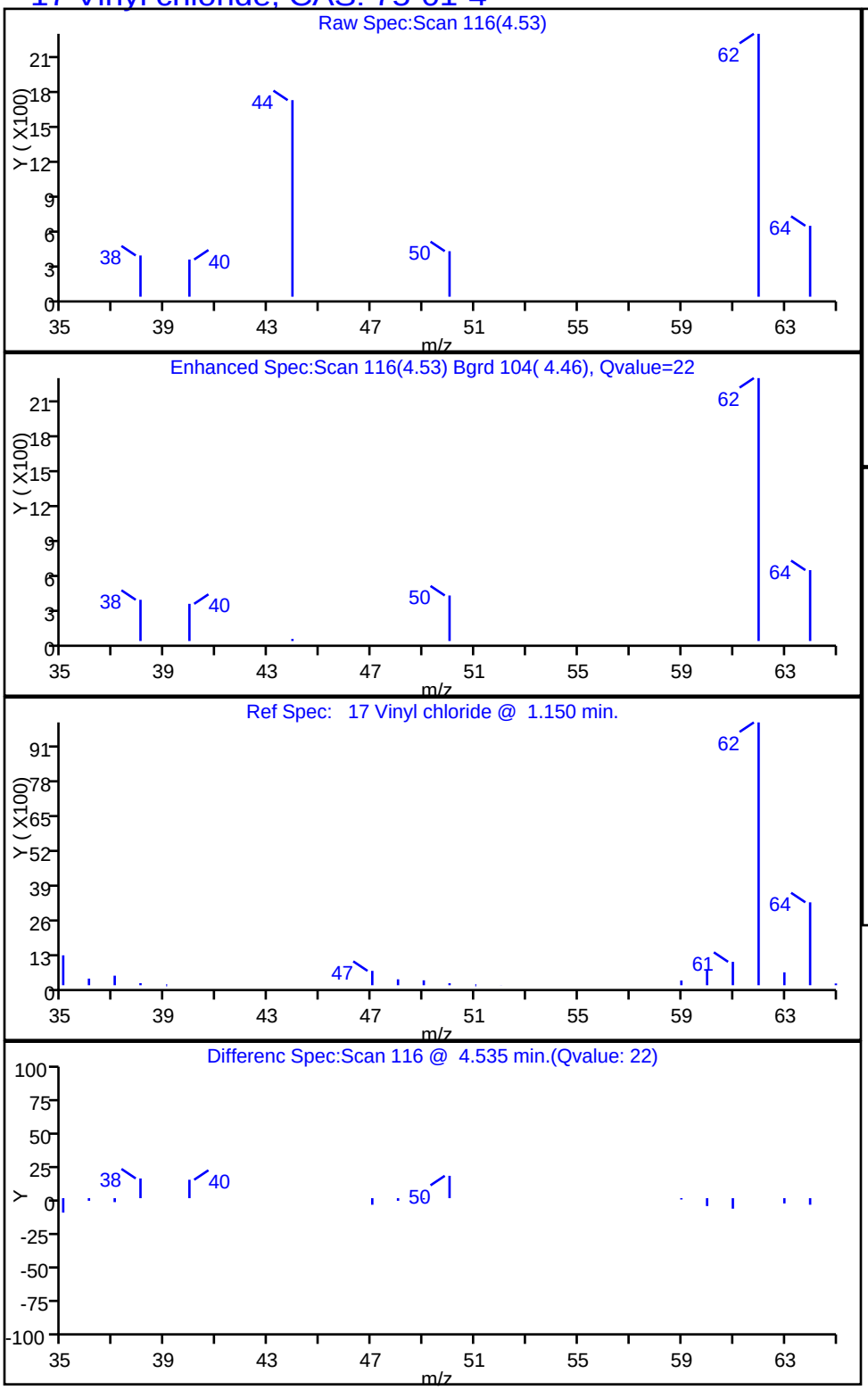


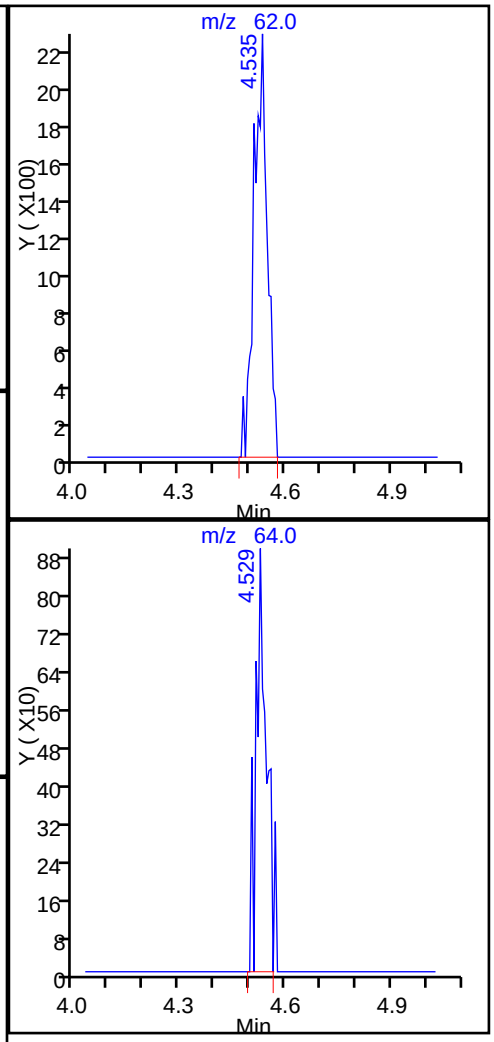
Report Date: 15-Oct-2016 13:37:13 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57299.b\P1428.D				
Injection Date:	15-Oct-2016 03:52:30	Instrument ID:	HP5973P		
Lims ID:	480-107471-B-7	Lab Sample ID:	480-107471-7		
Client ID:	PZ-5				
Operator ID:	SY	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

17 Vinyl chloride, CAS: 75-01-4





FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: PZ-6 | Lab Sample ID: 480-107471-8

Matrix: Water | Lab File ID: P1404.D

Analysis Method: 8260C | Date Collected: 10/10/2016 13:40

Sample wt/vol: 5(mL) | Date Analyzed: 10/14/2016 16:21

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 325584 | 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	0.22	J	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	22		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.: 480-107471-1

SDG No.:

Client Sample ID: PZ-6 | Lab Sample ID: 480-107471-8

Matrix: Water | Lab File ID: P1404.D

Analysis Method: 8260C | Date Collected: 10/10/2016 13:40

Sample wt/vol: 5(mL) | Date Analyzed: 10/14/2016 16:21

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 325584 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
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	7.0		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	19		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)	107		77-120
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
2037-26-5	Toluene-d8 (Surr)	97		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1404.D
Lims ID: 480-107471-A-8
Client ID: PZ-6
Sample Type: Client
Inject. Date: 14-Oct-2016 16:21:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-107471-A-8
Misc. Info.: 480-0057262-016
Operator ID: RF Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Oct-2016 17:41:09 Calib Date: 15-Sep-2016 21:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: youngmans Date: 14-Oct-2016 17:41:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.821	9.821	0.000	98	97198	25.0	
* 2 Chlorobenzene-d5	82	13.763	13.764	-0.001	86	197985	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.750	16.751	-0.001	96	233915	25.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.450	9.456	-0.006	0	83255	26.7	
$ 5 Toluene-d8 (Surr)	98	11.798	11.799	-0.001	93	425297	24.2	
$ 6 4-Bromofluorobenzene (Surr	174	15.278	15.278	0.000	90	146626	24.3	
10 Dichlorodifluoromethane	85		3.981				ND	
11 Chloromethane	50		4.316				ND	
17 Vinyl chloride	62	4.529	4.529	0.000	86	2903	0.4733	
12 Bromomethane	94		5.082				ND	
13 Chloroethane	64		5.204				ND	
14 Trichlorofluoromethane	101		5.605				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.244				ND	
25 1,1-Dichloroethene	96		6.287				ND	
24 Acetone	43	6.335	6.335	0.012	73	7551	1.89	7
27 Carbon disulfide	76	6.670	6.664	0.006	94	4924	0.2231	
30 Methyl acetate	43		6.700				ND	
31 Methylene Chloride	84		6.907				ND	
32 Methyl tert-butyl ether	73		7.163				ND	
35 trans-1,2-Dichloroethene	96	7.236	7.236	0.006	14	825	0.1204	7
40 1,1-Dichloroethane	63		7.753				ND	
44 2-Butanone (MEK)	43		8.398				ND	
43 cis-1,2-Dichloroethene	96	8.452	8.452	0.000	83	162729	21.7	
49 Chloroform	83		8.805				ND	
52 1,1,1-Trichloroethane	97		9.067				ND	
54 Cyclohexane	56		9.134				ND	
55 Carbon tetrachloride	117		9.268				ND	
57 Benzene	78		9.517				ND	
60 1,2-Dichloroethane	62		9.541				ND	
62 Trichloroethene	95	10.278	10.265	0.013	92	138933	19.4	
64 Methylcyclohexane	83		10.509				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
63 1,2-Dichloropropane	63		10.582				ND	
70 Dichlorobromomethane	83		10.904				ND	
73 cis-1,3-Dichloropropene	75		11.446				ND	
75 4-Methyl-2-pentanone (MIBK	43		11.555				ND	
76 Toluene	92	11.890	11.890	0.006	13	1822	0.1053	7
78 trans-1,3-Dichloropropene	75		12.145				ND	
79 1,1,2-Trichloroethane	83		12.431				ND	
80 Tetrachloroethene	166	12.632	12.632	0.000	95	52128	6.98	
83 2-Hexanone	43		12.638				ND	
81 Chlorodibromomethane	129		13.009				ND	
85 Ethylene Dibromide	107		13.210				ND	
87 Chlorobenzene	112		13.800				ND	
89 Ethylbenzene	91		13.867				ND	
90 m-Xylene & p-Xylene	106		14.007				ND	
93 o-Xylene	106		14.560				ND	
94 Styrene	104		14.573				ND	
92 Bromoform	173		14.931				ND	
95 Isopropylbenzene	105		14.998				ND	
97 1,1,2,2-Tetrachloroethane	83		15.424				ND	
110 1,3-Dichlorobenzene	146		16.677				ND	
111 1,4-Dichlorobenzene	146		16.781				ND	
116 1,2-Dichlorobenzene	146		17.268				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.241				ND	
119 1,2,4-Trichlorobenzene	180		19.318				ND	
S 126 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

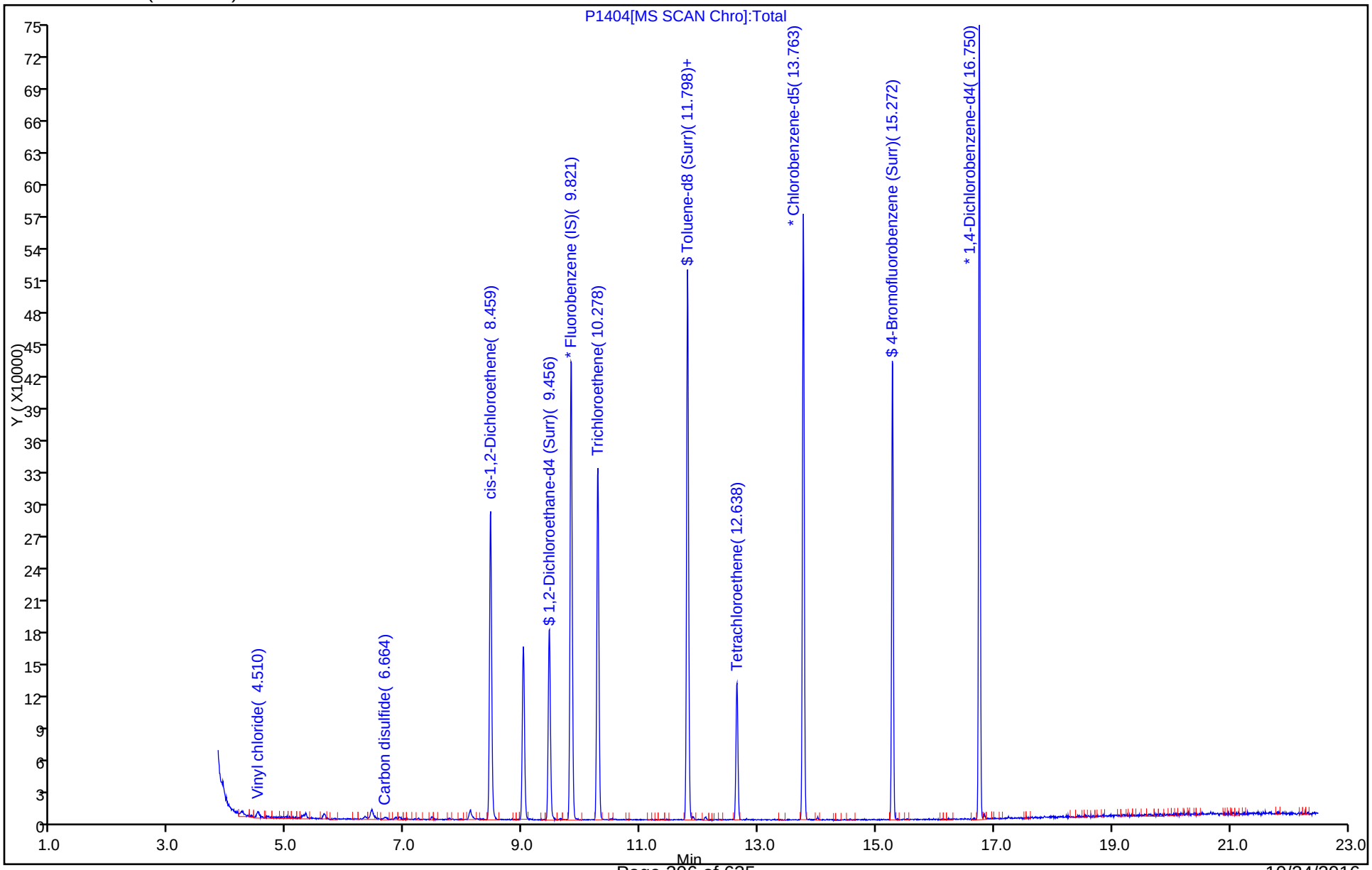
P 8260 IS_00173	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00197	Amount Added:	1.25	Units: uL	Run Reagent

Report Date: 14-Oct-2016 17:41:10 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1404.D				
Injection Date:	14-Oct-2016 16:21:30	Instrument ID:	HP5973P	Operator ID:	RF
Lims ID:	480-107471-A-8	Lab Sample ID:	480-107471-8	Worklist Smp#:	16
Client ID:	PZ-6				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Recovery Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1404.D
Lims ID: 480-107471-A-8
Client ID: PZ-6
Sample Type: Client
Inject. Date: 14-Oct-2016 16:21:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-107471-A-8
Misc. Info.: 480-0057262-016
Operator ID: RF Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Oct-2016 17:41:09 Calib Date: 15-Sep-2016 21:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: youngmans Date: 14-Oct-2016 17:41:09

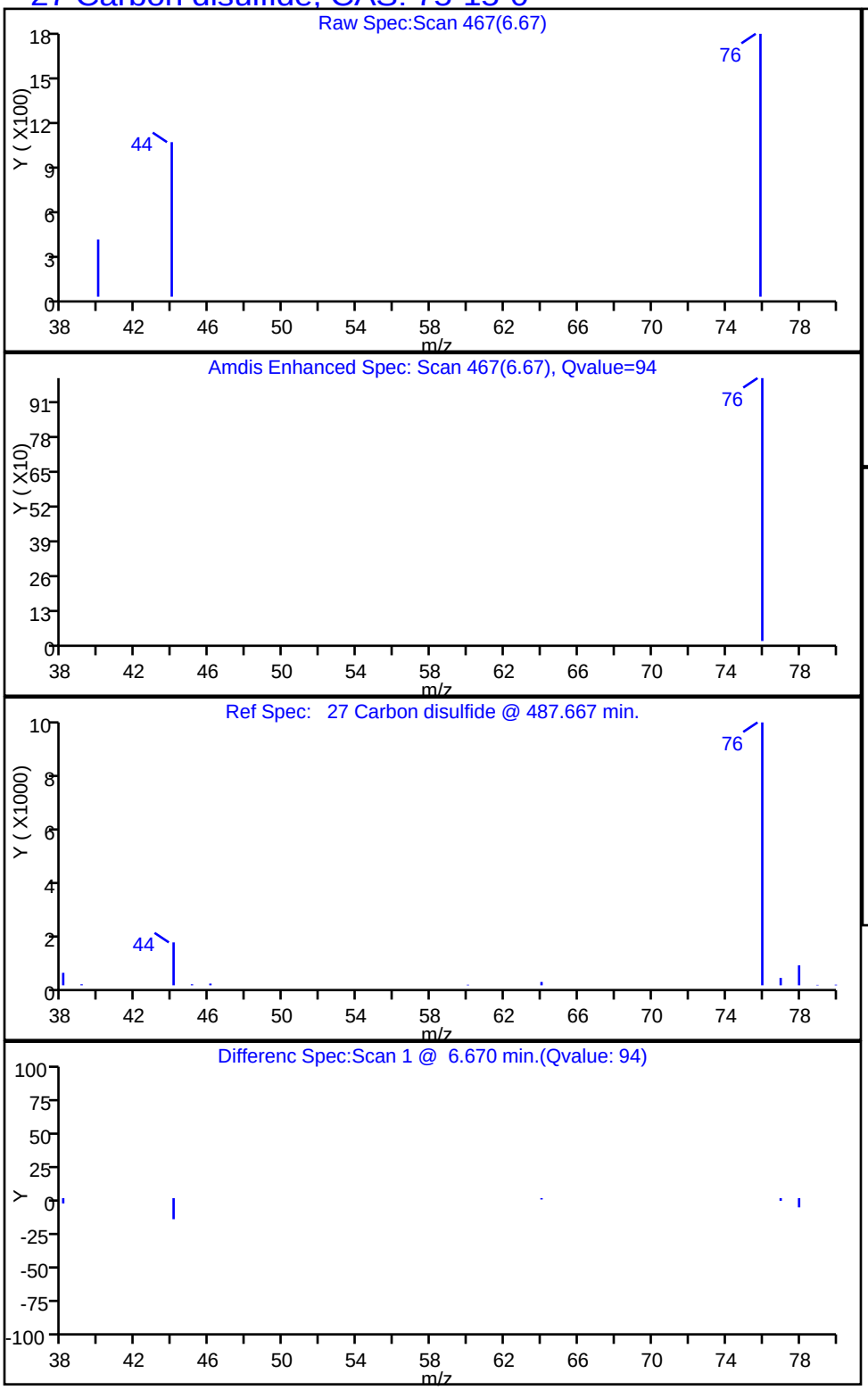
Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	0.0	0	0.00
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	26.7	106.89
$ 5 Toluene-d8 (Surr)	25.0	24.2	96.76
$ 6 4-Bromofluorobenzene (Surr)	25.0	24.3	97.38

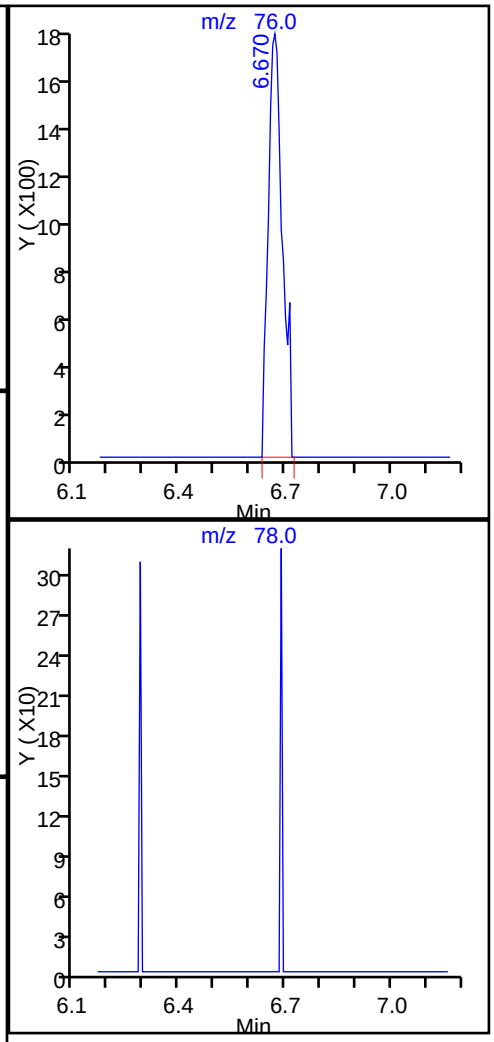
Report Date: 14-Oct-2016 17:41:10 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1404.D				
Injection Date:	14-Oct-2016 16:21:30	Instrument ID:	HP5973P		
Lims ID:	480-107471-A-8	Lab Sample ID:	480-107471-8		
Client ID:	PZ-6				
Operator ID:	RF	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

27 Carbon disulfide, CAS: 75-15-0



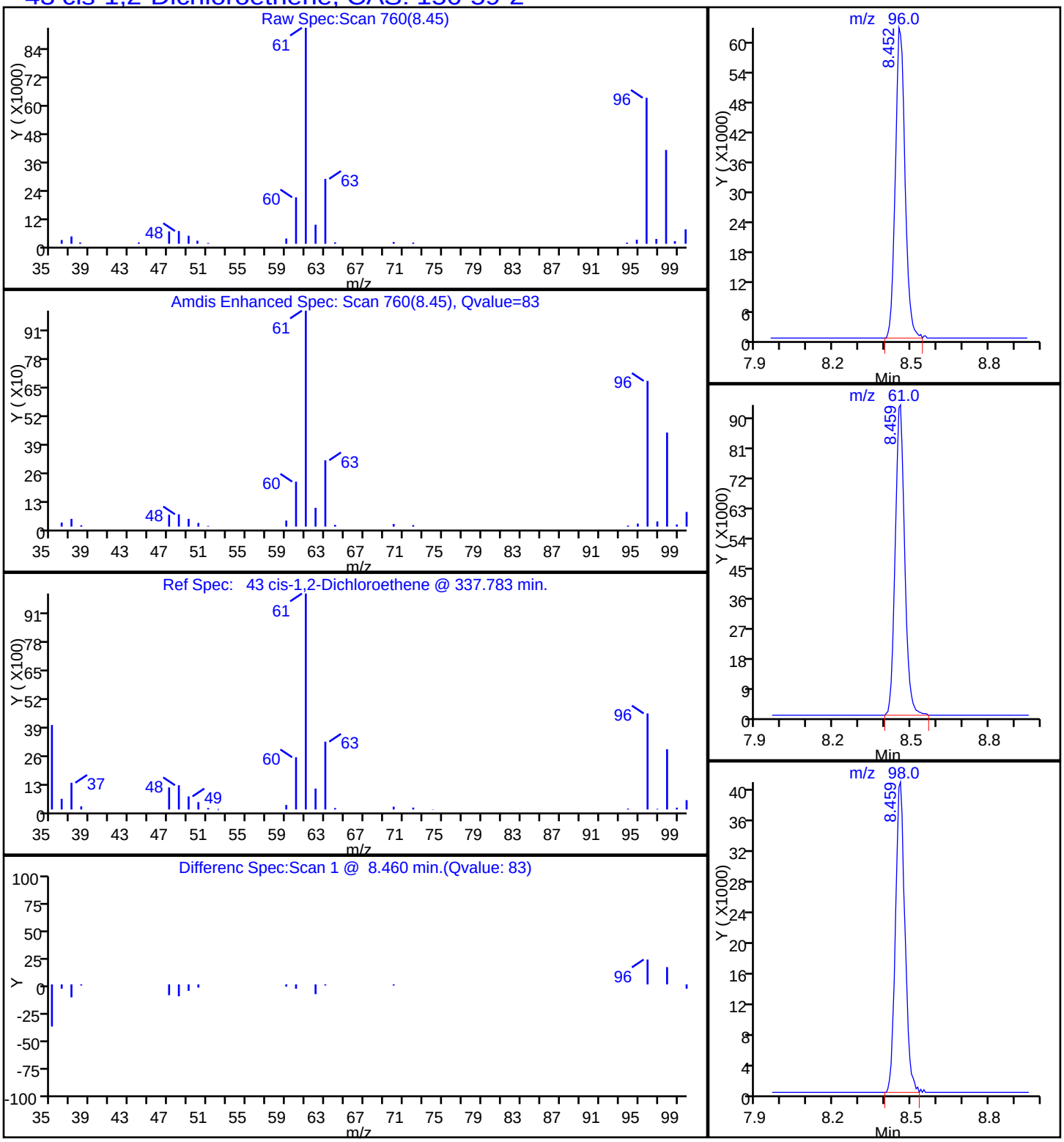


Report Date: 14-Oct-2016 17:41:10 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1404.D				
Injection Date:	14-Oct-2016 16:21:30	Instrument ID:	HP5973P		
Lims ID:	480-107471-A-8	Lab Sample ID:	480-107471-8		
Client ID:	PZ-6				
Operator ID:	RF	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

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

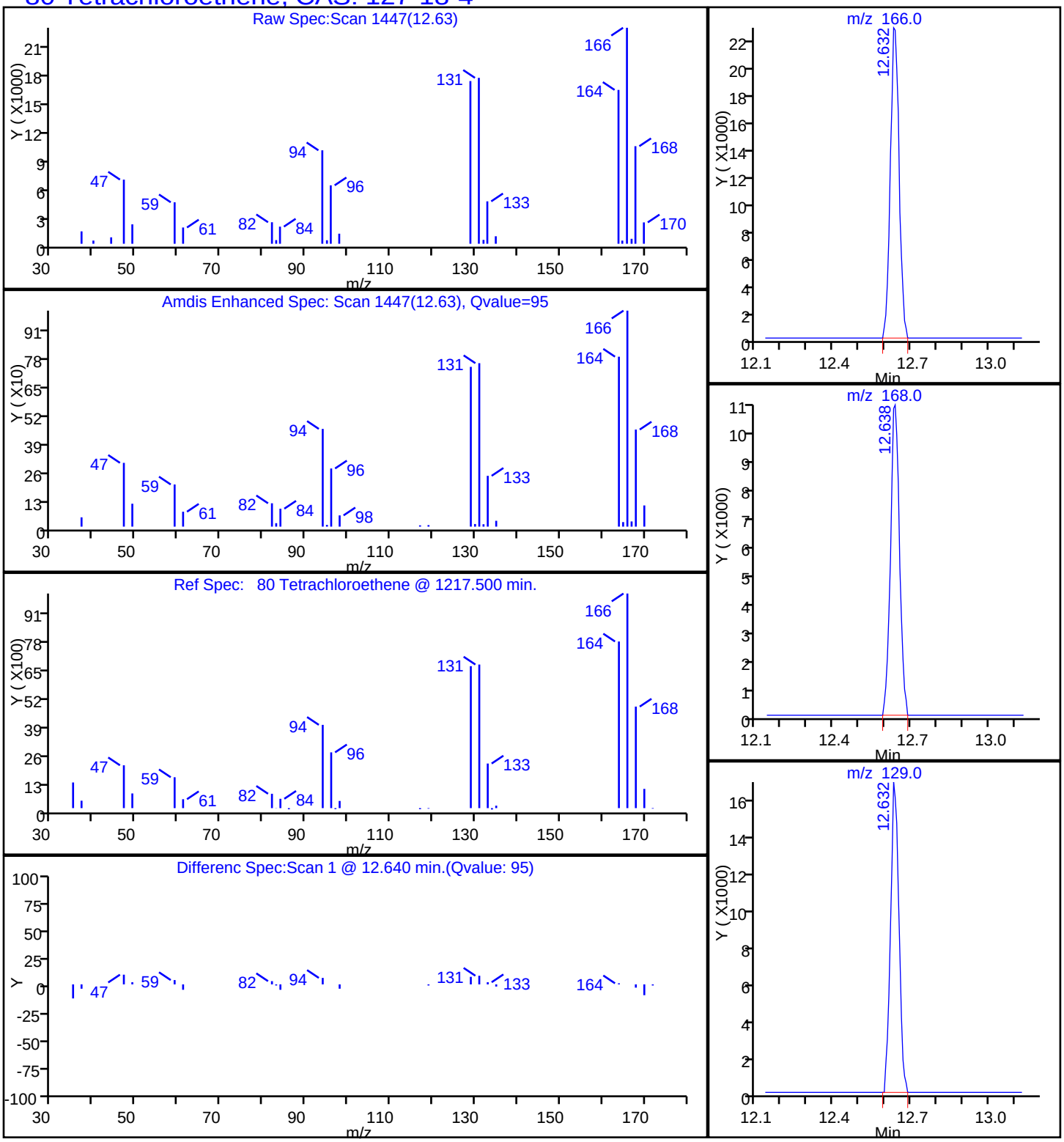


Report Date: 14-Oct-2016 17:41:10 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1404.D				
Injection Date:	14-Oct-2016 16:21:30	Instrument ID:	HP5973P		
Lims ID:	480-107471-A-8	Lab Sample ID:	480-107471-8		
Client ID:	PZ-6				
Operator ID:	RF	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

80 Tetrachloroethene, CAS: 127-18-4

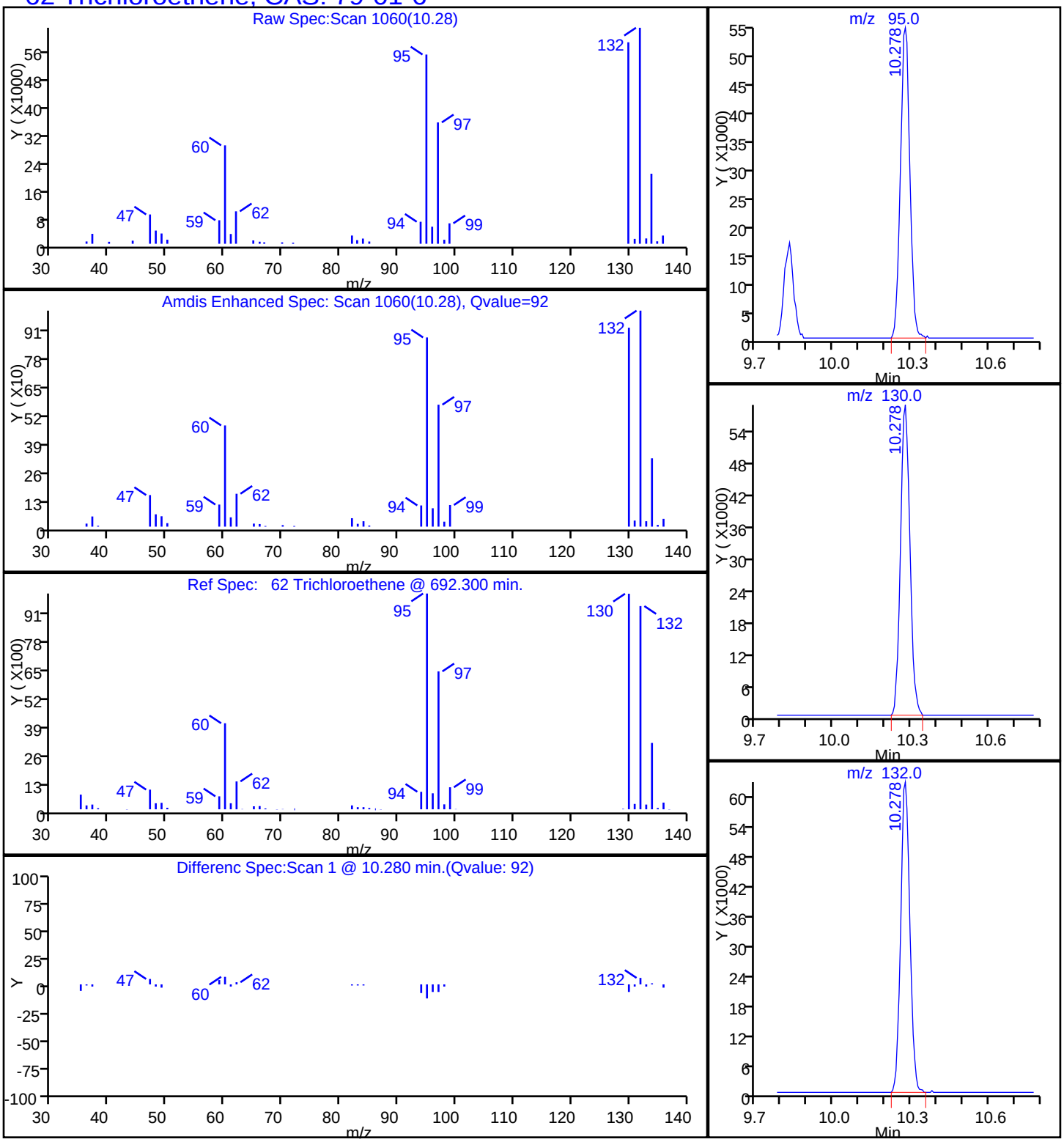


Report Date: 14-Oct-2016 17:41:10 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1404.D				
Injection Date:	14-Oct-2016 16:21:30	Instrument ID:	HP5973P		
Lims ID:	480-107471-A-8	Lab Sample ID:	480-107471-8		
Client ID:	PZ-6				
Operator ID:	RF	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

62 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: PZ-11R | Lab Sample ID: 480-107471-9

Matrix: Water | Lab File ID: N8921.D

Analysis Method: 8260C | Date Collected: 10/11/2016 14:45

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2016 21:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 325847 | 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	1.7		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.: 480-107471-1

SDG No.:

Client Sample ID: PZ-11R | Lab Sample ID: 480-107471-9

Matrix: Water | Lab File ID: N8921.D

Analysis Method: 8260C | Date Collected: 10/11/2016 14:45

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2016 21:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 325847 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
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	4.2		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	7.2		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)	114		77-120
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8921.D
Lims ID: 480-107471-A-9
Client ID: PZ-11R
Sample Type: Client
Inject. Date: 15-Oct-2016 21:49:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-107471-a-9
Misc. Info.: 480-0057315-011
Operator ID: NEA Instrument ID: HP5973N

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Oct-2016 16:48:28 Calib Date: 06-Oct-2016 06:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK014

First Level Reviewer: gentilej Date: 16-Oct-2016 16:48:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.528	5.534	-0.006	99	97778	25.0	
* 2 Chlorobenzene-d5	117	8.527	8.527	0.000	85	415160	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.906	10.906	0.000	94	228878	25.0	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.242	5.242	0.000	0	171089	28.4	
$ 6 Toluene-d8 (Surr)	98	7.043	7.043	0.000	93	499603	24.7	
$ 7 4-Bromofluorobenzene (Surr	174	9.774	9.774	0.000	96	186461	25.3	
11 Dichlorodifluoromethane	85		1.379				ND	
13 Chloromethane	50		1.525				ND	
14 Vinyl chloride	62		1.640				ND	
15 Bromomethane	94		1.926				ND	
16 Chloroethane	64		2.042				ND	
18 Trichlorofluoromethane	101		2.285				ND	
22 1,1-Dichloroethene	96		2.778				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.778				ND	
23 Acetone	43		2.869				ND	
25 Carbon disulfide	76		2.973				ND	
28 Methyl acetate	43		3.174				ND	
30 Methylene Chloride	84		3.271				ND	
32 Methyl tert-butyl ether	73		3.502				ND	
33 trans-1,2-Dichloroethene	96		3.514				ND	
36 1,1-Dichloroethane	63		3.922				ND	
43 cis-1,2-Dichloroethene	96	4.475	4.469	0.006	80	11230	1.65	
44 2-Butanone (MEK)	43		4.494				ND	
50 Chloroform	83		4.780				ND	
51 1,1,1-Trichloroethane	97		4.907				ND	
52 Cyclohexane	56		4.938				ND	
53 Carbon tetrachloride	117		5.059				ND	
55 Benzene	78		5.260				ND	
57 1,2-Dichloroethane	62		5.309				ND	
60 Trichloroethene	95	5.875	5.875	0.000	94	39236	7.20	
62 Methylcyclohexane	83		6.015				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
63 1,2-Dichloropropane	63		6.100				ND	
67 Dichlorobromomethane	83		6.386				ND	
71 cis-1,3-Dichloropropene	75		6.805				ND	
72 4-Methyl-2-pentanone (MIBK	58		6.945				ND	
73 Toluene	92		7.110				ND	
75 trans-1,3-Dichloropropene	75		7.371				ND	
78 1,1,2-Trichloroethane	83		7.554				ND	
79 Tetrachloroethene	166	7.657	7.651	0.006	94	27879	4.21	
82 2-Hexanone	43		7.785				ND	
83 Chlorodibromomethane	129		7.955				ND	
84 Ethylene Dibromide	107		8.065				ND	
85 Chlorobenzene	112		8.557				ND	
88 Ethylbenzene	91		8.655				ND	
90 m-Xylene & p-Xylene	106		8.776				ND	
91 o-Xylene	106		9.202				ND	
92 Styrene	104		9.227				ND	
93 Bromoform	173		9.458				ND	
95 Isopropylbenzene	105		9.586				ND	
98 1,1,2,2-Tetrachloroethane	83		9.957				ND	
110 1,3-Dichlorobenzene	146		10.845				ND	
113 1,4-Dichlorobenzene	146		10.930				ND	
116 1,2-Dichlorobenzene	146		11.277				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.995				ND	
119 1,2,4-Trichlorobenzene	180		12.688				ND	
S 126 Xylenes, Total	1		30.000				ND	

Reagents:

N_8260_Surr_00211	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00038	Amount Added: 1.00	Units: uL	Run Reagent

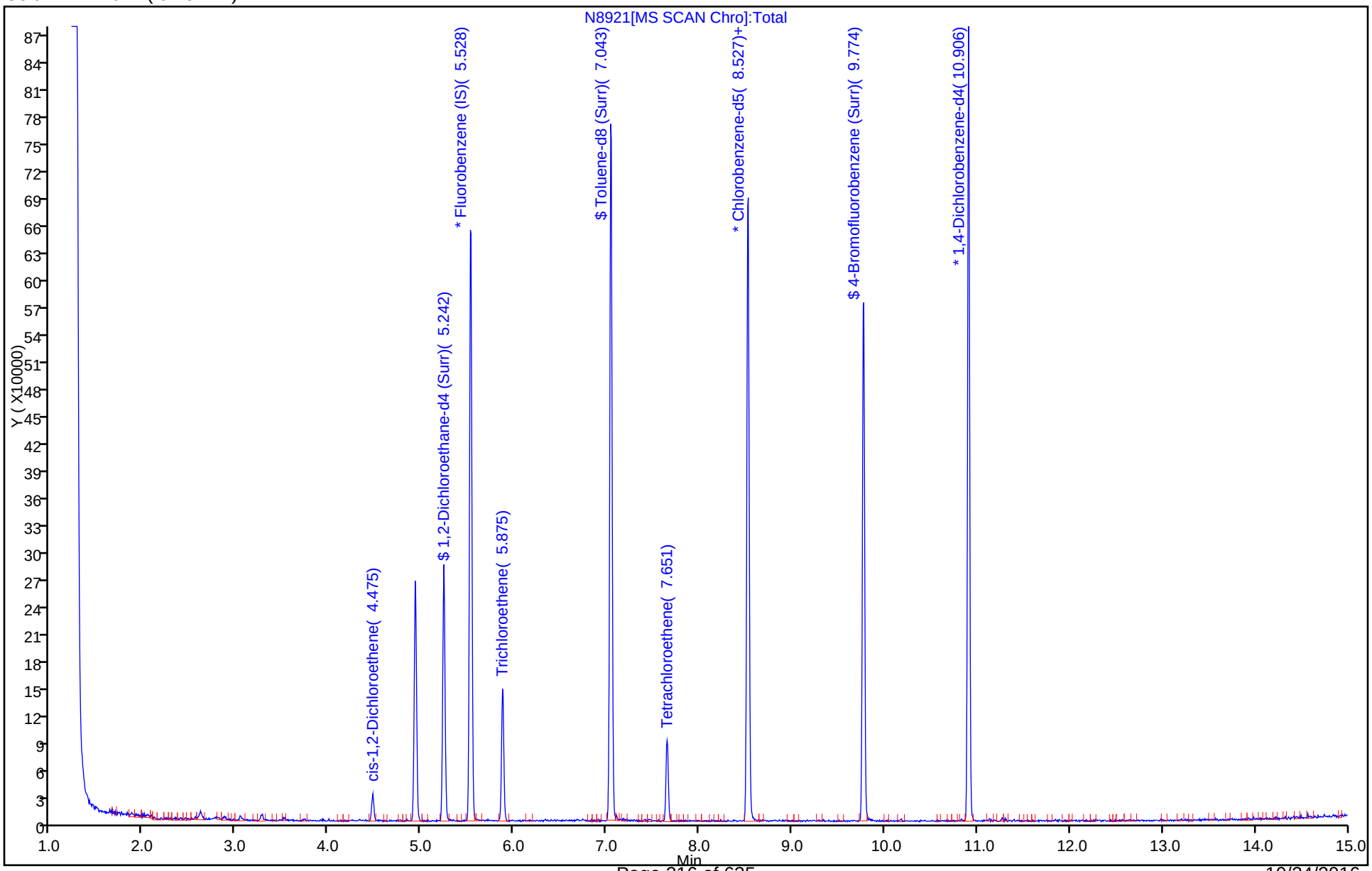
Report Date: 16-Oct-2016 16:48:29 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8921.D

Injection Date:	15-Oct-2016 21:49:30	Instrument ID:	HP5973N	Operator ID:	NEA
Lims ID:	480-107471-A-9	Lab Sample ID:	480-107471-9	Worklist Smp#:	11
Client ID:	PZ-11R				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Recovery Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8921.D				
Lims ID:	480-107471-A-9				
Client ID:	PZ-11R				
Sample Type:	Client				
Inject. Date:	15-Oct-2016 21:49:30	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	480-107471-a-9				
Misc. Info.:	480-0057315-011				
Operator ID:	NEA	Instrument ID:	HP5973N		

Method:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N-8260.m		
Limit Group:	MV - 8260C ICAL		
Last Update:	16-Oct-2016 16:48:28	Calib Date:	06-Oct-2016 06:56:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D		

Column 1 :	ZB-624 (0.25 mm)	Det: MS SCAN
Process Host:	XAWRK014	

First Level Reviewer: gentilej Date: 16-Oct-2016 16:48:28

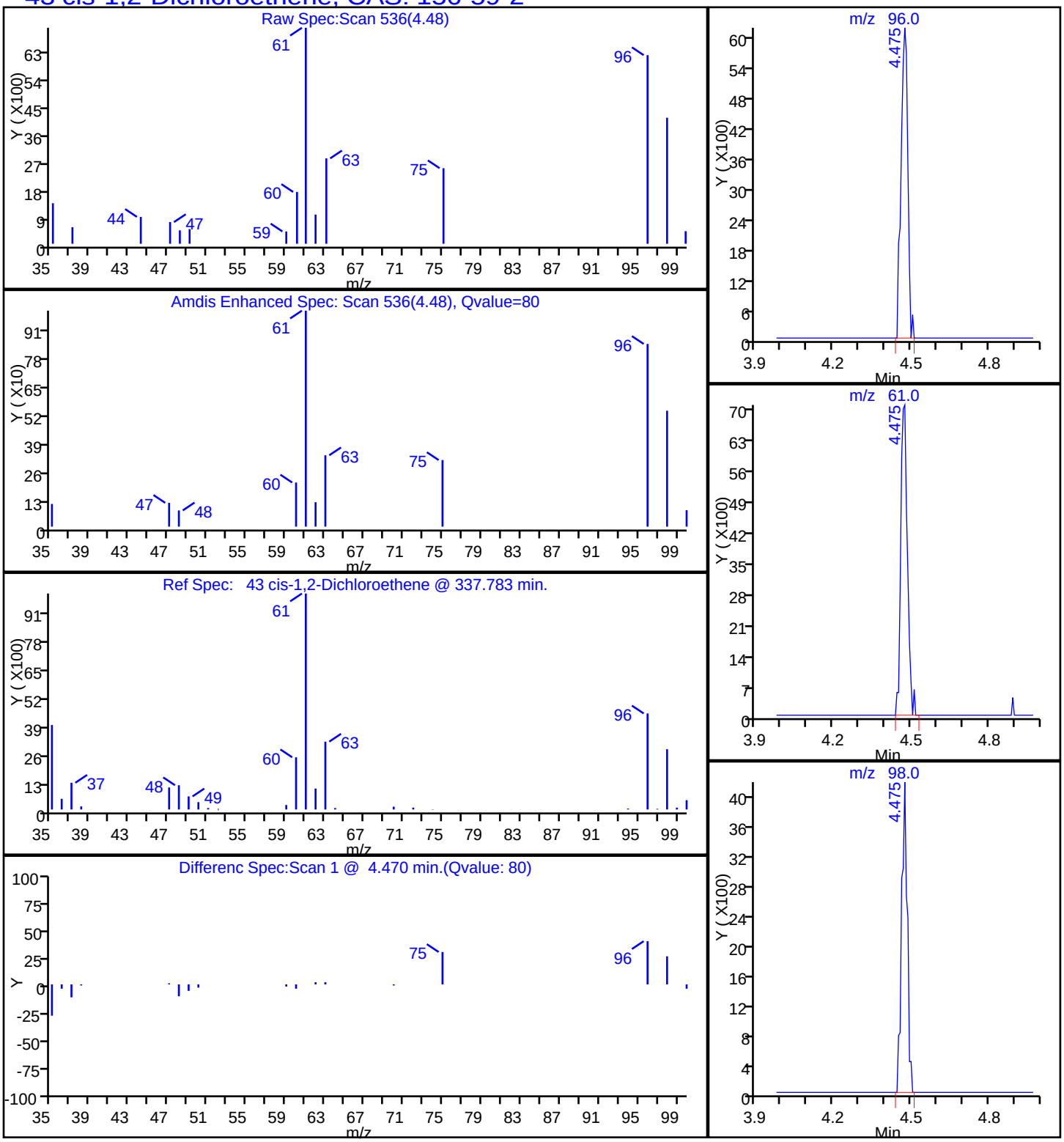
Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	0.0	0	0.00
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	28.4	113.60
$ 6 Toluene-d8 (Surr)	25.0	24.7	98.75
$ 7 4-Bromofluorobenzene (Surr)	25.0	25.3	101.00

Report Date: 16-Oct-2016 16:48:29 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8921.D				
Injection Date:	15-Oct-2016 21:49:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-A-9	Lab Sample ID:	480-107471-9		
Client ID:	PZ-11R				
Operator ID:	NEA	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

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

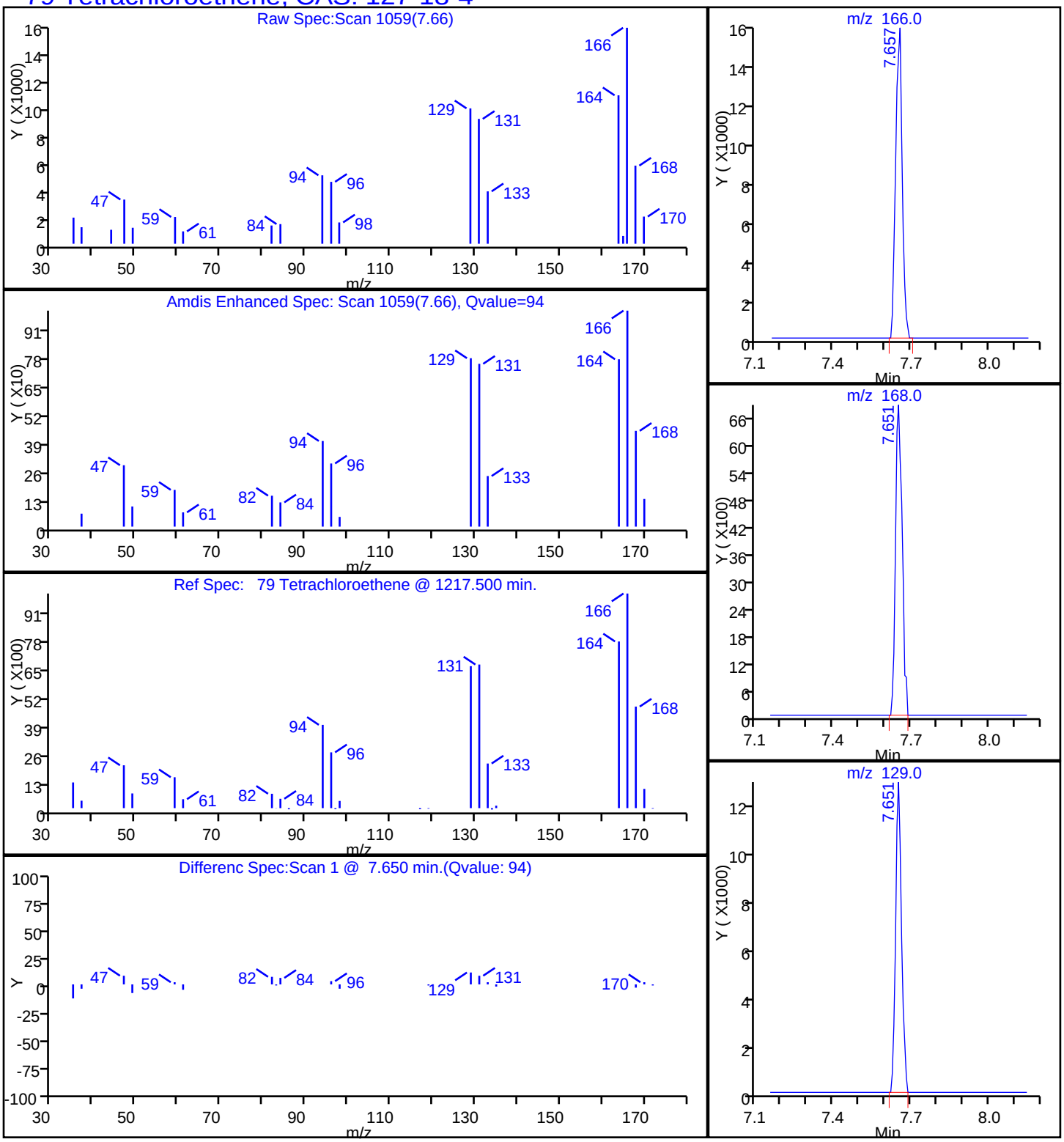


Report Date: 16-Oct-2016 16:48:29 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8921.D				
Injection Date:	15-Oct-2016 21:49:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-A-9	Lab Sample ID:	480-107471-9		
Client ID:	PZ-11R				
Operator ID:	NEA	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

79 Tetrachloroethene, CAS: 127-18-4

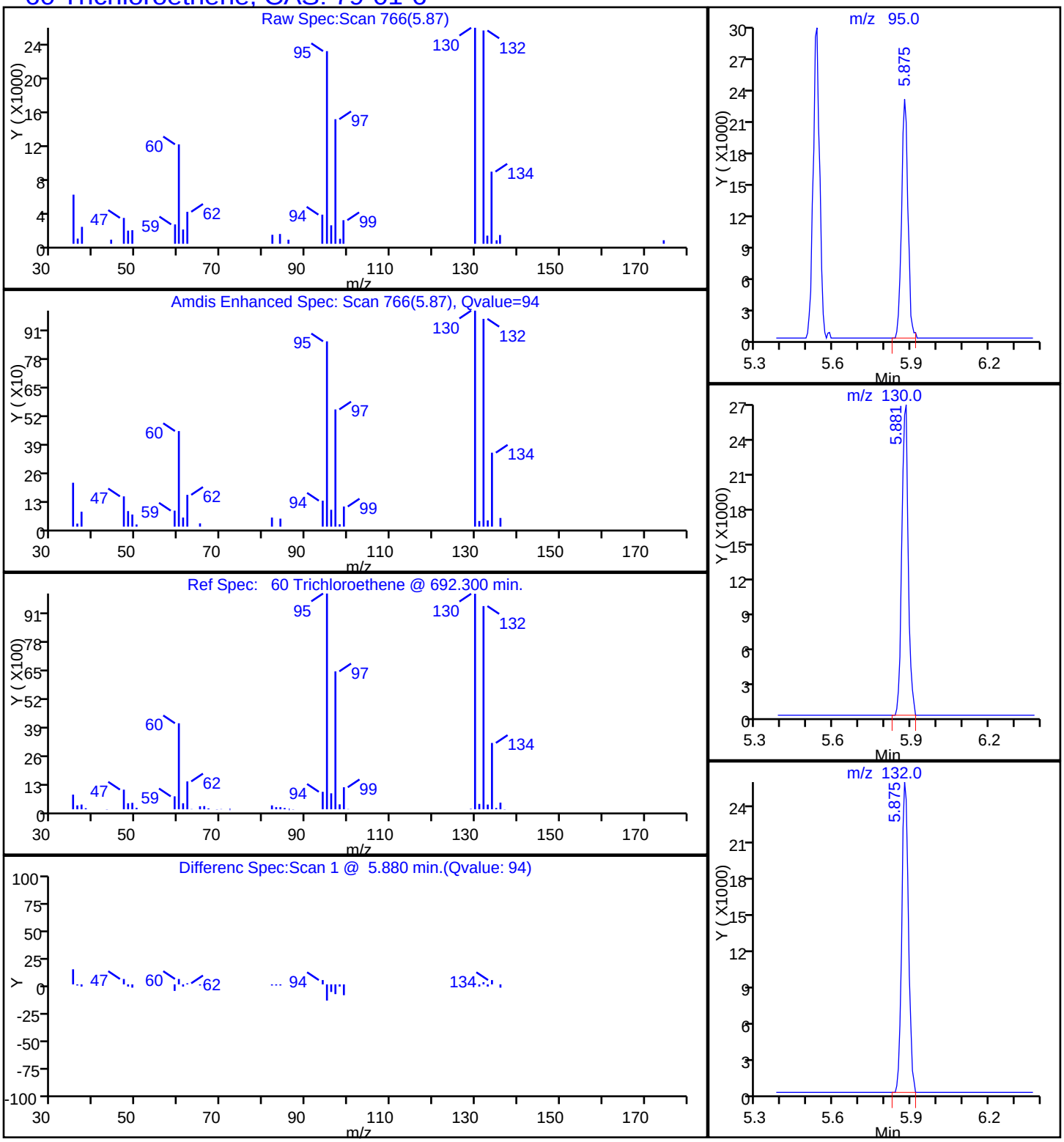


Report Date: 16-Oct-2016 16:48:29 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8921.D				
Injection Date:	15-Oct-2016 21:49:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-A-9	Lab Sample ID:	480-107471-9		
Client ID:	PZ-11R				
Operator ID:	NEA	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

60 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: PZ-13R | Lab Sample ID: 480-107471-10

Matrix: Water | Lab File ID: N8922.D

Analysis Method: 8260C | Date Collected: 10/11/2016 15:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2016 22:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 325847 | 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	2.2		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.: 480-107471-1

SDG No.:

Client Sample ID: PZ-13R | Lab Sample ID: 480-107471-10

Matrix: Water | Lab File ID: N8922.D

Analysis Method: 8260C | Date Collected: 10/11/2016 15:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2016 22:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 325847 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
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	1.3		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	5.1		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)	108		77-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8922.D
Lims ID: 480-107471-A-10
Client ID: PZ-13R
Sample Type: Client
Inject. Date: 15-Oct-2016 22:15:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-107471-a-10
Misc. Info.: 480-0057315-012
Operator ID: NEA Instrument ID: HP5973N

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Oct-2016 16:48:28 Calib Date: 06-Oct-2016 06:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK014

First Level Reviewer: gentilej Date: 16-Oct-2016 16:48:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.528	5.534	-0.006	99	103845	25.0	
* 2 Chlorobenzene-d5	117	8.527	8.527	0.000	85	409040	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.906	10.906	0.000	93	231611	25.0	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.242	5.242	0.000	0	172387	26.9	
$ 6 Toluene-d8 (Surr)	98	7.043	7.043	0.000	93	500542	25.1	
$ 7 4-Bromofluorobenzene (Surr	174	9.774	9.774	0.000	95	185865	25.5	
11 Dichlorodifluoromethane	85		1.379				ND	
13 Chloromethane	50		1.525				ND	
14 Vinyl chloride	62		1.640				ND	
15 Bromomethane	94		1.926				ND	
16 Chloroethane	64		2.042				ND	
18 Trichlorofluoromethane	101		2.285				ND	
22 1,1-Dichloroethene	96		2.778				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.778				ND	
23 Acetone	43		2.869				ND	
25 Carbon disulfide	76		2.973				ND	
28 Methyl acetate	43		3.174				ND	
30 Methylene Chloride	84		3.271				ND	
32 Methyl tert-butyl ether	73		3.502				ND	
33 trans-1,2-Dichloroethene	96		3.514				ND	
36 1,1-Dichloroethane	63		3.922				ND	
43 cis-1,2-Dichloroethene	96	4.469	4.469	0.000	82	16004	2.22	
44 2-Butanone (MEK)	43		4.494				ND	
50 Chloroform	83		4.780				ND	
51 1,1,1-Trichloroethane	97		4.907				ND	
52 Cyclohexane	56		4.938				ND	
53 Carbon tetrachloride	117		5.059				ND	
55 Benzene	78		5.260				ND	
57 1,2-Dichloroethane	62		5.309				ND	
60 Trichloroethene	95	5.875	5.875	0.000	93	29295	5.06	
62 Methylcyclohexane	83		6.015				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
63 1,2-Dichloropropane	63		6.100				ND	
67 Dichlorobromomethane	83		6.386				ND	
71 cis-1,3-Dichloropropene	75		6.805				ND	
72 4-Methyl-2-pentanone (MIBK	58		6.945				ND	
73 Toluene	92		7.110				ND	
75 trans-1,3-Dichloropropene	75		7.371				ND	
78 1,1,2-Trichloroethane	83		7.554				ND	
79 Tetrachloroethene	166	7.651	7.651	0.000	94	8786	1.35	
82 2-Hexanone	43		7.785				ND	
83 Chlorodibromomethane	129		7.955				ND	
84 Ethylene Dibromide	107		8.065				ND	
85 Chlorobenzene	112		8.557				ND	
88 Ethylbenzene	91		8.655				ND	
90 m-Xylene & p-Xylene	106		8.776				ND	
91 o-Xylene	106		9.202				ND	
92 Styrene	104		9.227				ND	
93 Bromoform	173		9.458				ND	
95 Isopropylbenzene	105		9.586				ND	
98 1,1,2,2-Tetrachloroethane	83		9.957				ND	
110 1,3-Dichlorobenzene	146		10.845				ND	
113 1,4-Dichlorobenzene	146		10.930				ND	
116 1,2-Dichlorobenzene	146		11.277				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.995				ND	
119 1,2,4-Trichlorobenzene	180		12.688				ND	
S 126 Xylenes, Total	1		30.000				ND	

Reagents:

N_8260_Surr_00211	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00038	Amount Added: 1.00	Units: uL	Run Reagent

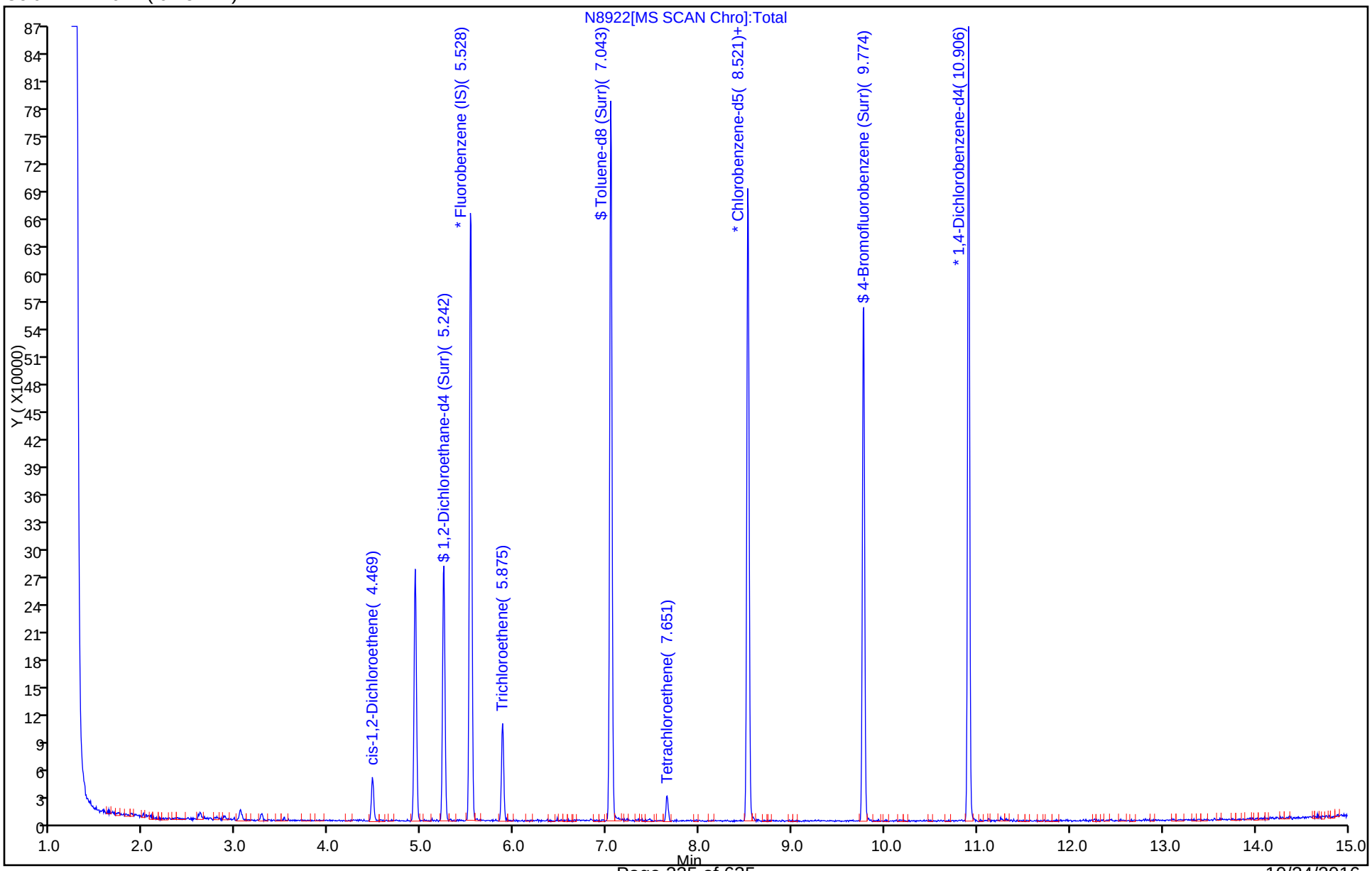
Report Date: 16-Oct-2016 16:48:55 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8922.D

Injection Date:	15-Oct-2016 22:15:30	Instrument ID:	HP5973N	Operator ID:	NEA
Lims ID:	480-107471-A-10	Lab Sample ID:	480-107471-10	Worklist Smp#:	12
Client ID:	PZ-13R				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Recovery Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8922.D				
Lims ID:	480-107471-A-10				
Client ID:	PZ-13R				
Sample Type:	Client				
Inject. Date:	15-Oct-2016 22:15:30	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	480-107471-a-10				
Misc. Info.:	480-0057315-012				
Operator ID:	NEA	Instrument ID:	HP5973N		

Method:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N-8260.m		
Limit Group:	MV - 8260C ICAL		
Last Update:	16-Oct-2016 16:48:28	Calib Date:	06-Oct-2016 06:56:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D		

Column 1 :	ZB-624 (0.25 mm)	Det: MS SCAN
Process Host:	XAWRK014	

First Level Reviewer: gentilej Date: 16-Oct-2016 16:48:55

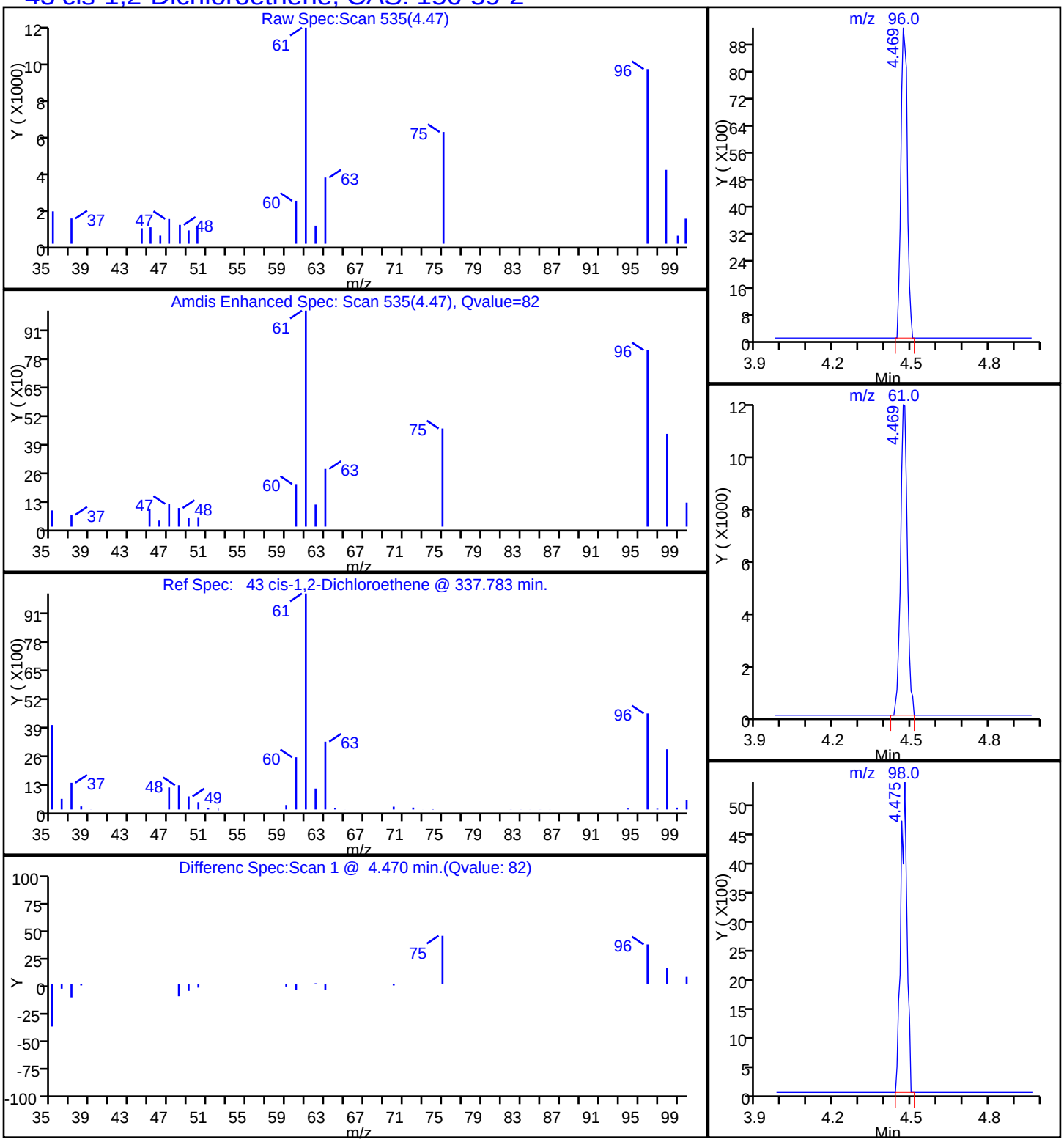
Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	0.0	0	0.00
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	26.9	107.78
$ 6 Toluene-d8 (Surr)	25.0	25.1	100.42
$ 7 4-Bromofluorobenzene (Surr)	25.0	25.5	102.18

Report Date: 16-Oct-2016 16:48:55 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8922.D				
Injection Date:	15-Oct-2016 22:15:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-A-10	Lab Sample ID:	480-107471-10		
Client ID:	PZ-13R				
Operator ID:	NEA	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

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

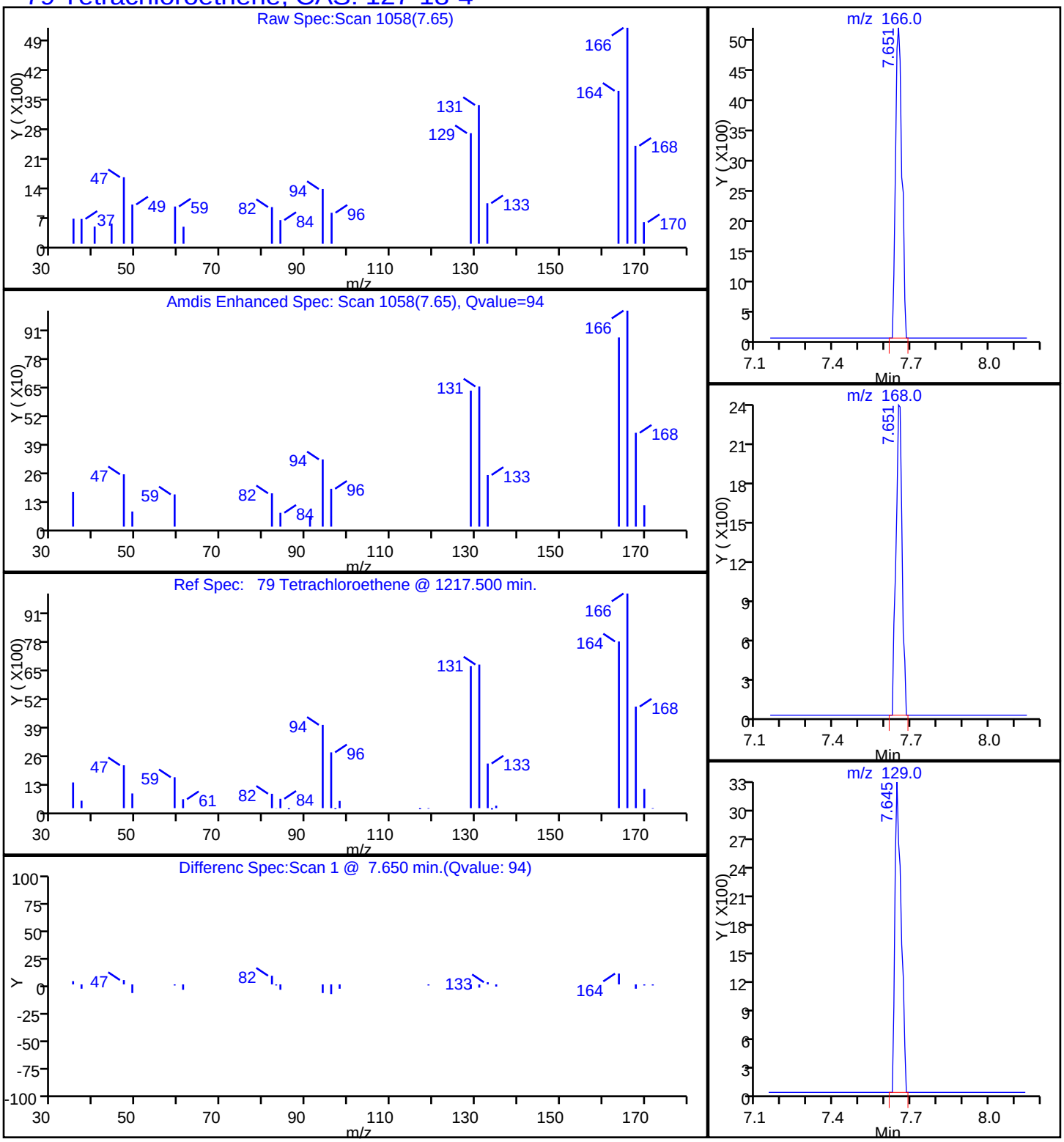


Report Date: 16-Oct-2016 16:48:55 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8922.D				
Injection Date:	15-Oct-2016 22:15:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-A-10	Lab Sample ID:	480-107471-10		
Client ID:	PZ-13R				
Operator ID:	NEA	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

79 Tetrachloroethene, CAS: 127-18-4

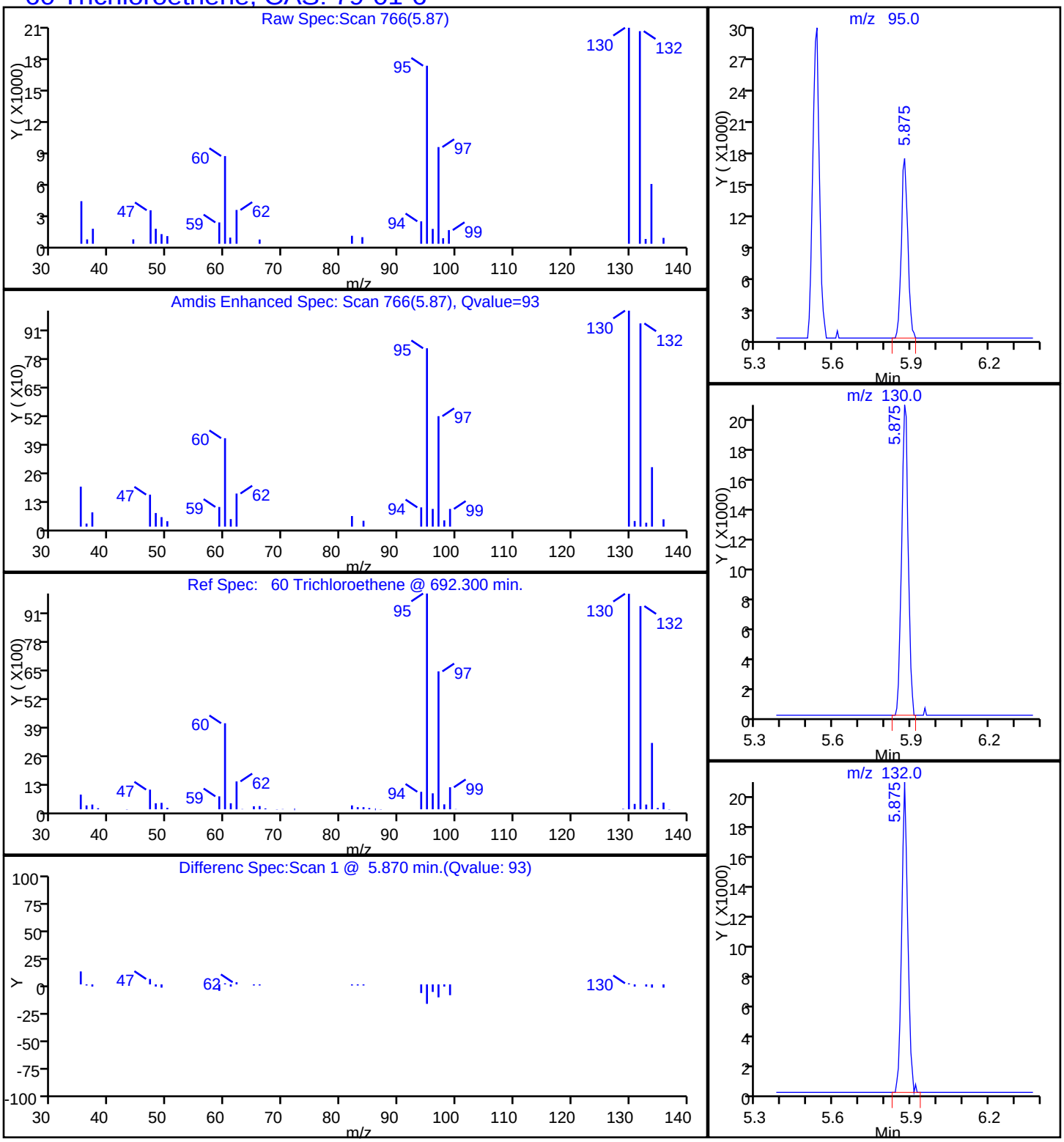


Report Date: 16-Oct-2016 16:48:55 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8922.D				
Injection Date:	15-Oct-2016 22:15:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-A-10	Lab Sample ID:	480-107471-10		
Client ID:	PZ-13R				
Operator ID:	NEA	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

60 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: A2-PZ-1 | Lab Sample ID: 480-107471-11

Matrix: Water | Lab File ID: N8923.D

Analysis Method: 8260C | Date Collected: 10/11/2016 11:25

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2016 22:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 325847 | 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*	*140*	*E*	*1.0*	*0.31*
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	*1,1-Dichloroethane*	*400*	*E*	*1.0*	*0.38*
75-35-4	1,1-Dichloroethene	13		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	0.96	J	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	1.3		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	0.92	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*	*1900*	*E*	*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	320	E	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.: 480-107471-1

SDG No.:

Client Sample ID: A2-PZ-1 | Lab Sample ID: 480-107471-11

Matrix: Water | Lab File ID: N8923.D

Analysis Method: 8260C | Date Collected: 10/11/2016 11:25

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2016 22:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 325847 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
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	2.2		1.0	0.36
108-88-3	Toluene	2.7		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	9.0		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	*Trichloroethene*	*390*	*E*	*1.0*	*0.46*
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	*Vinyl chloride*	*520*	*E*	*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)	114		77-120
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8923.D
Lims ID: 480-107471-A-11
Client ID: A2-PZ-1
Sample Type: Client
Inject. Date: 15-Oct-2016 22:42:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-107471-a-11
Misc. Info.: 480-0057315-013
Operator ID: NEA Instrument ID: HP5973N

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Oct-2016 16:57:29 Calib Date: 06-Oct-2016 06:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK014

First Level Reviewer: gentilej Date: 16-Oct-2016 16:57:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.534	5.534	0.000	99	103074	25.0	
* 2 Chlorobenzene-d5	117	8.527	8.527	0.000	85	432323	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.906	10.906	0.000	94	236932	25.0	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.242	5.242	0.000	0	180945	28.5	
$ 6 Toluene-d8 (Surr)	98	7.043	7.043	0.000	93	526997	25.0	
$ 7 4-Bromofluorobenzene (Surr	174	9.774	9.774	0.000	95	187847	24.4	
11 Dichlorodifluoromethane	85	1.348	1.379	-0.031	53	1733683	324.5	E
13 Chloromethane	50		1.525				ND	
14 Vinyl chloride	62	1.653	1.640	0.013	99	3258139	522.1	E
15 Bromomethane	94		1.926				ND	
16 Chloroethane	64	2.030	2.042	-0.012	37	3557	0.9233	
18 Trichlorofluoromethane	101		2.285				ND	
22 1,1-Dichloroethene	96	2.778	2.778	0.000	42	71644	13.0	
21 1,1,2-Trichloro-1,2,2-trif	101	2.790	2.778	0.012	91	776151	144.7	E
23 Acetone	43	2.875	2.869	0.006	74	5789	2.49	
25 Carbon disulfide	76	2.979	2.973	0.006	98	23148	1.32	
28 Methyl acetate	43		3.174				ND	
30 Methylene Chloride	84		3.271				ND	
32 Methyl tert-butyl ether	73		3.502				ND	
33 trans-1,2-Dichloroethene	96	3.514	3.514	0.000	96	56703	9.01	
36 1,1-Dichloroethane	63	3.928	3.922	0.006	96	4281593	402.7	E
43 cis-1,2-Dichloroethene	96	4.481	4.469	0.012	69	13397587	1870.0	E
44 2-Butanone (MEK)	43		4.494				ND	
50 Chloroform	83		4.780				ND	
51 1,1,1-Trichloroethane	97		4.907				ND	
52 Cyclohexane	56		4.938				ND	
53 Carbon tetrachloride	117		5.059				ND	
55 Benzene	78		5.260				ND	
57 1,2-Dichloroethane	62	5.309	5.309	0.000	96	7958	0.9565	
60 Trichloroethene	95	5.875	5.875	0.000	94	2247297	391.1	E
62 Methylcyclohexane	83		6.015				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
63 1,2-Dichloropropane	63		6.100				ND	
67 Dichlorobromomethane	83		6.386				ND	
71 cis-1,3-Dichloropropene	75		6.805				ND	
72 4-Methyl-2-pentanone (MIBK	58	6.964	6.964	0.019	36	1178	0.4540	
73 Toluene	92	7.110	7.110	0.000	98	41057	2.74	
75 trans-1,3-Dichloropropene	75		7.371				ND	
78 1,1,2-Trichloroethane	83		7.554				ND	
79 Tetrachloroethene	166	7.651	7.651	0.000	95	15132	2.19	
82 2-Hexanone	43		7.785				ND	
83 Chlorodibromomethane	129		7.955				ND	
84 Ethylene Dibromide	107		8.065				ND	
85 Chlorobenzene	112		8.557				ND	
88 Ethylbenzene	91		8.655				ND	
90 m-Xylene & p-Xylene	106		8.776				ND	
91 o-Xylene	106		9.202				ND	
92 Styrene	104		9.227				ND	
93 Bromoform	173		9.458				ND	
95 Isopropylbenzene	105		9.586				ND	
98 1,1,2,2-Tetrachloroethane	83		9.957				ND	
110 1,3-Dichlorobenzene	146		10.845				ND	
113 1,4-Dichlorobenzene	146		10.930				ND	
116 1,2-Dichlorobenzene	146		11.277				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.995				ND	
119 1,2,4-Trichlorobenzene	180		12.688				ND	
S 126 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

N_8260_Surr_00211	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00038	Amount Added:	1.00	Units: uL	Run Reagent

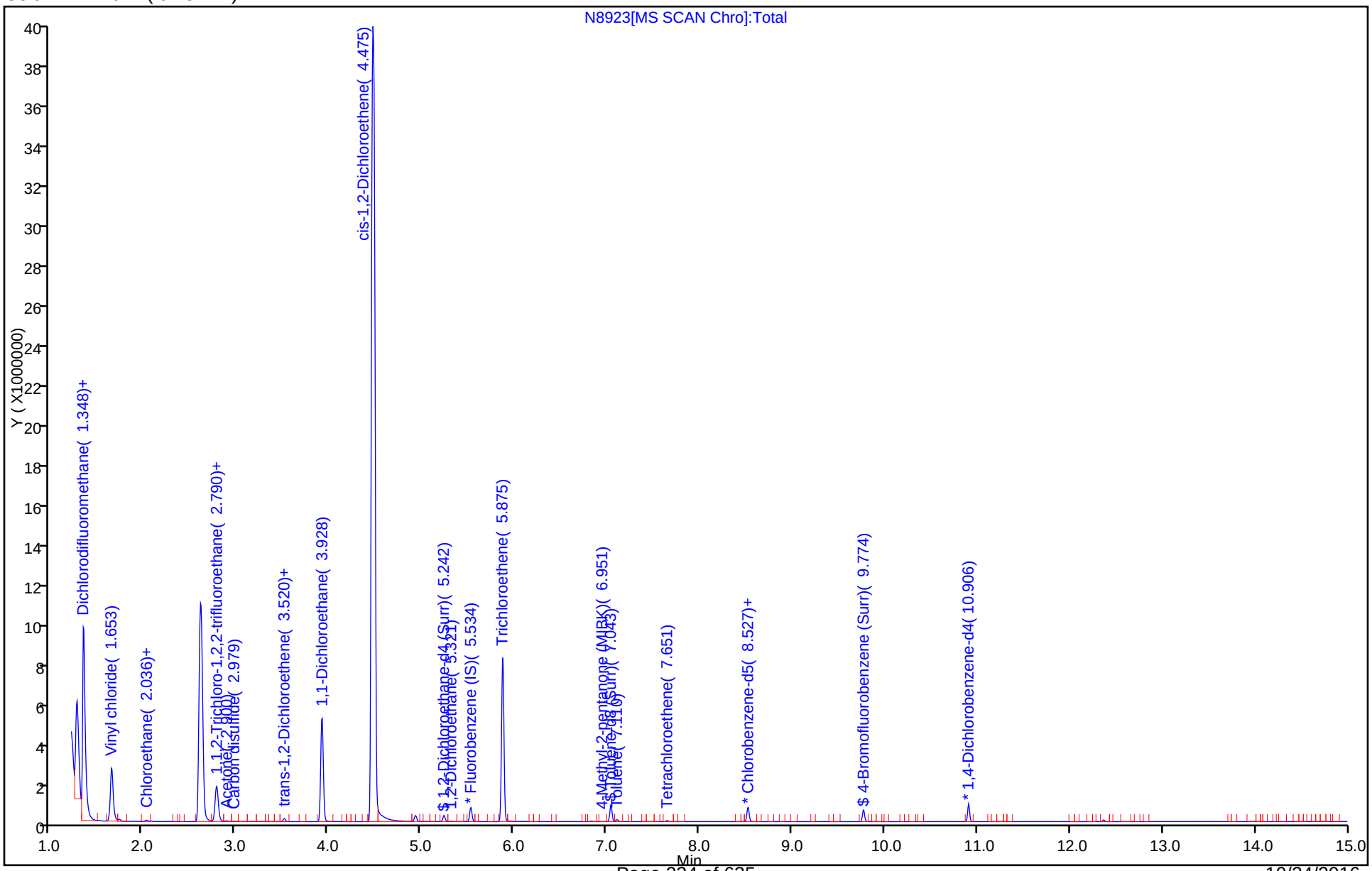
Report Date: 16-Oct-2016 16:57:29 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8923.D

Injection Date:	15-Oct-2016 22:42:30	Instrument ID:	HP5973N	Operator ID:	NEA
Lims ID:	480-107471-A-11	Lab Sample ID:	480-107471-11	Worklist Smp#:	13
Client ID:	A2-PZ-1				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Recovery Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8923.D				
Lims ID:	480-107471-A-11				
Client ID:	A2-PZ-1				
Sample Type:	Client				
Inject. Date:	15-Oct-2016 22:42:30	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	480-107471-a-11				
Misc. Info.:	480-0057315-013				
Operator ID:	NEA	Instrument ID:	HP5973N		

Method:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N-8260.m		
Limit Group:	MV - 8260C ICAL		
Last Update:	16-Oct-2016 16:57:29	Calib Date:	06-Oct-2016 06:56:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D		

Column 1 :	ZB-624 (0.25 mm)	Det: MS SCAN
Process Host:	XAWRK014	

First Level Reviewer: gentilej Date: 16-Oct-2016 16:57:28

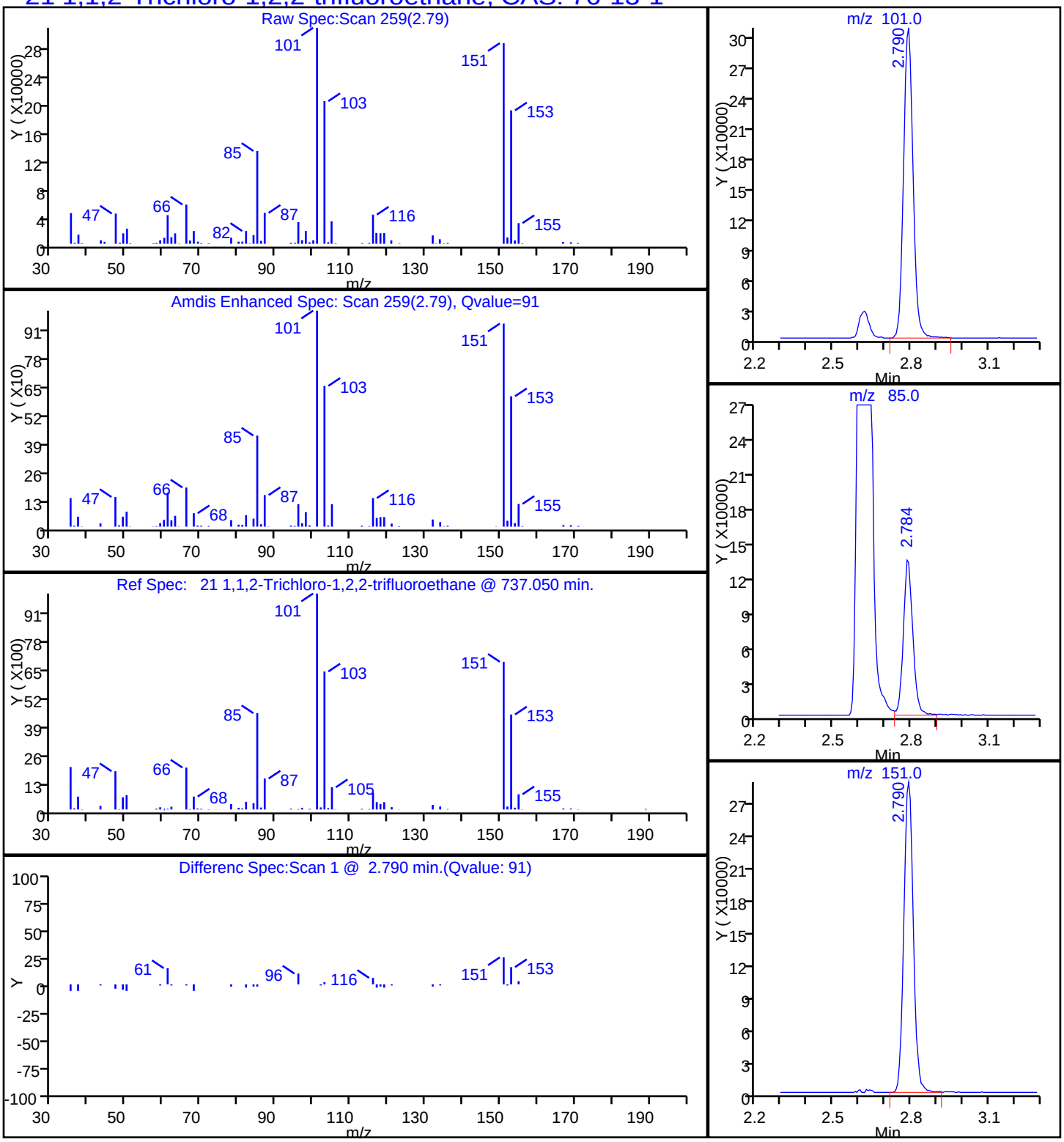
Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	0.0	0	0.00
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	28.5	113.97
$ 6 Toluene-d8 (Surr)	25.0	25.0	100.03
$ 7 4-Bromofluorobenzene (Surr)	25.0	24.4	97.71

Report Date: 16-Oct-2016 16:57:29 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8923.D				
Injection Date:	15-Oct-2016 22:42:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-A-11	Lab Sample ID:	480-107471-11		
Client ID:	A2-PZ-1				
Operator ID:	NEA	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

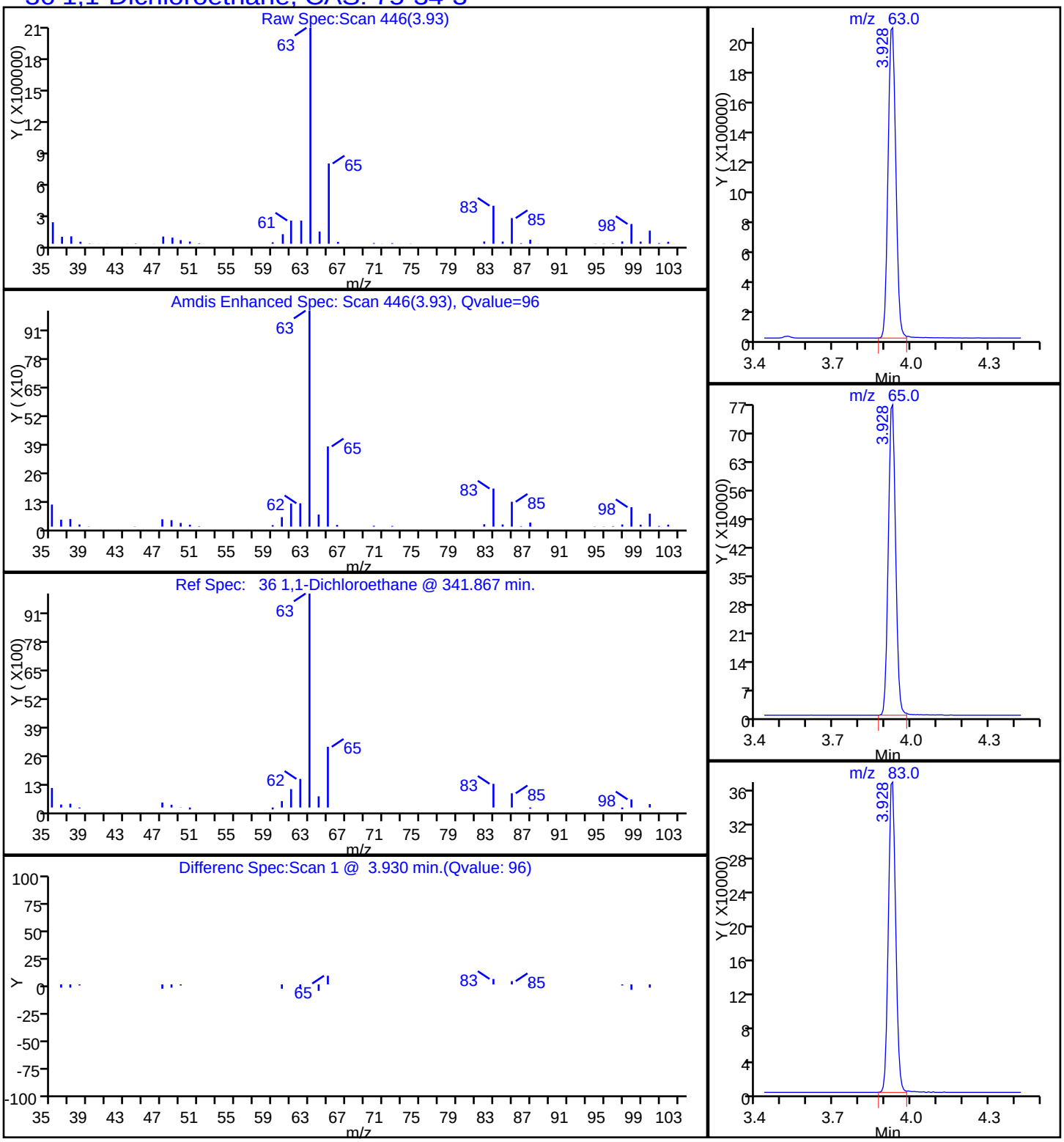


Report Date: 16-Oct-2016 16:57:29 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8923.D				
Injection Date:	15-Oct-2016 22:42:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-A-11	Lab Sample ID:	480-107471-11		
Client ID:	A2-PZ-1				
Operator ID:	NEA	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

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

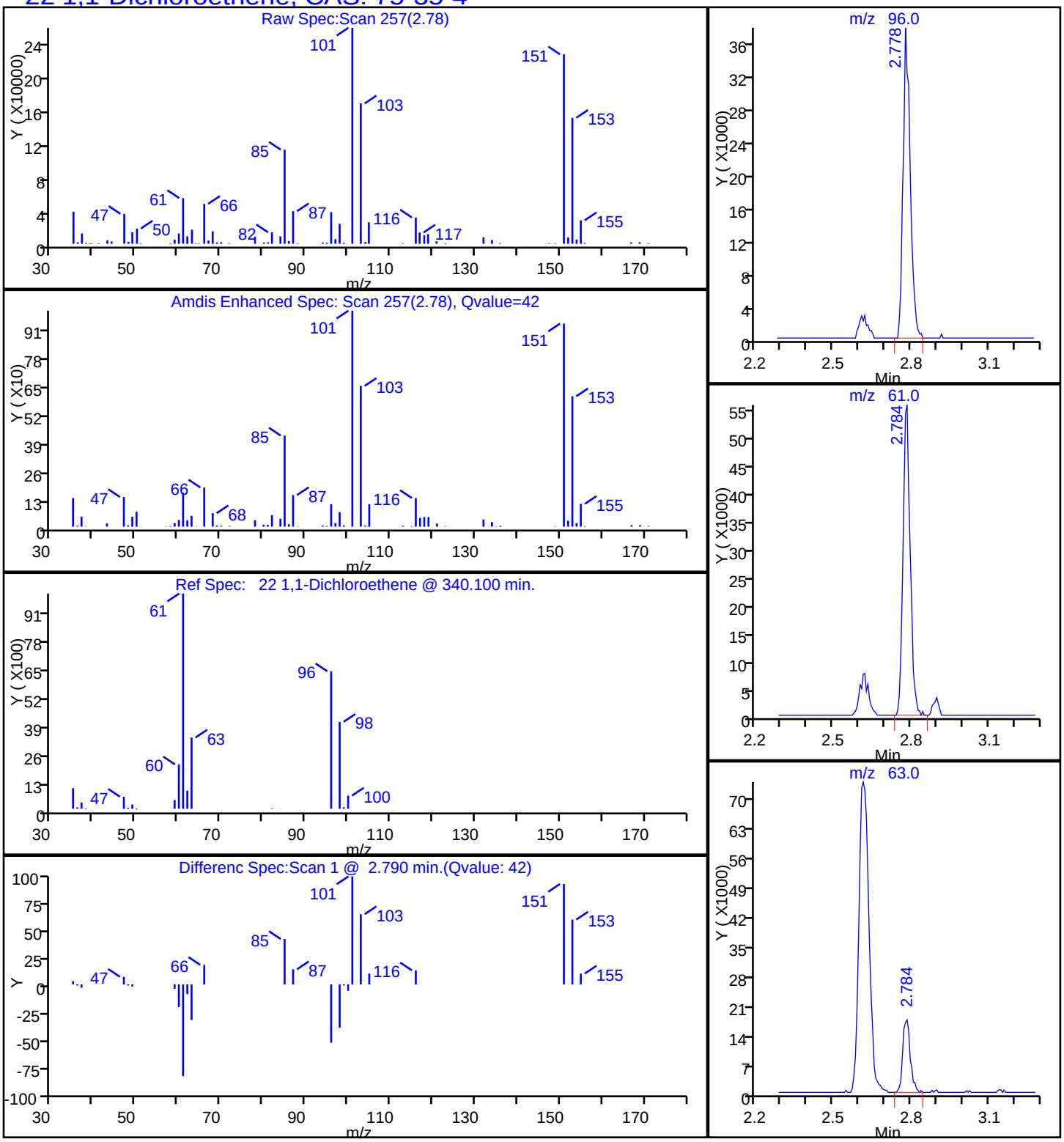


Report Date: 16-Oct-2016 16:57:29 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8923.D				
Injection Date:	15-Oct-2016 22:42:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-A-11	Lab Sample ID:	480-107471-11		
Client ID:	A2-PZ-1				
Operator ID:	NEA	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

22 1,1-Dichloroethene, CAS: 75-35-4

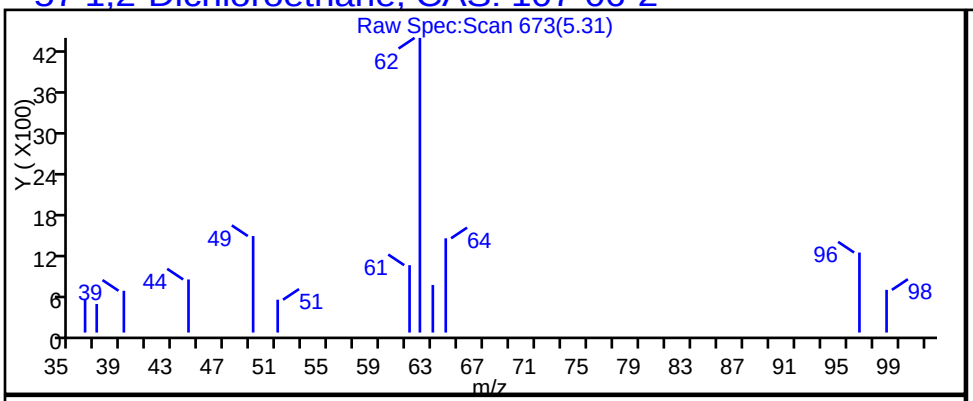


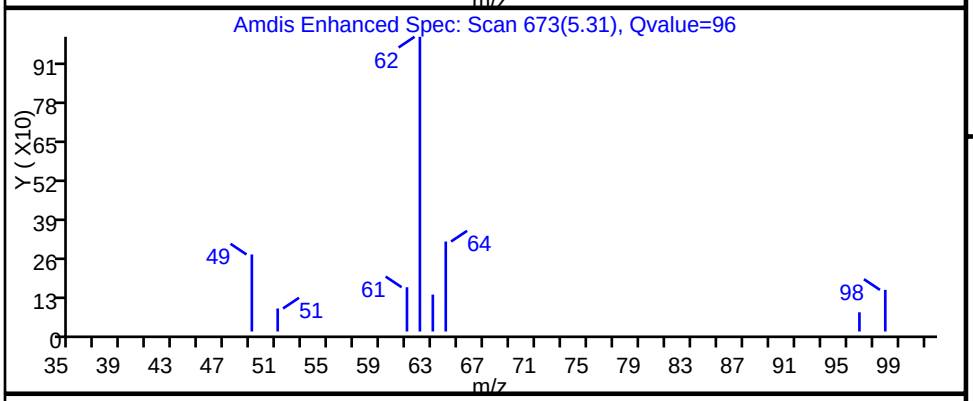
Report Date: 16-Oct-2016 16:57:29 Chrom Revision: 2.2 08-Sep-2016 14:45:52

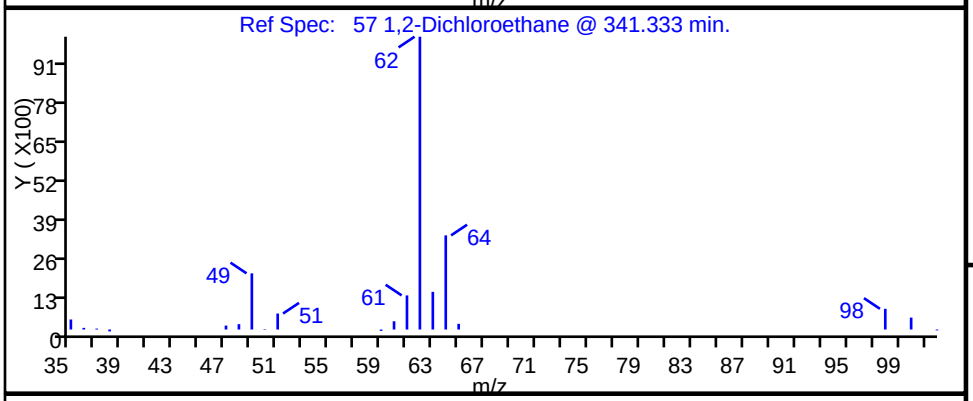
TestAmerica Buffalo

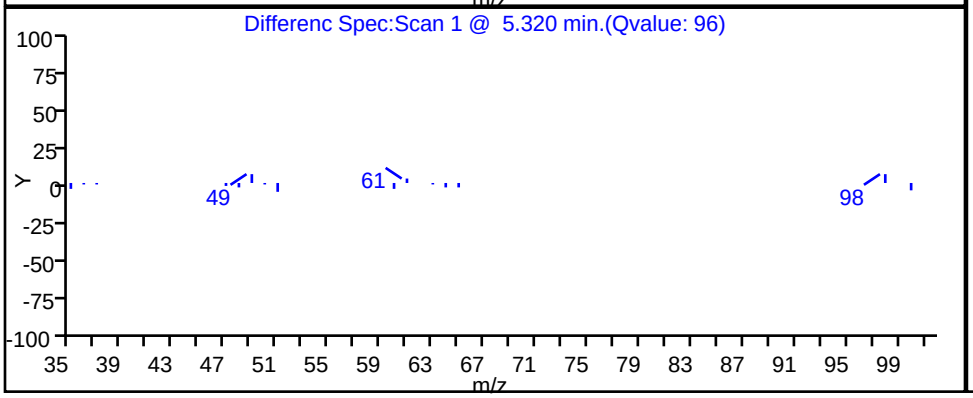
Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8923.D				
Injection Date:	15-Oct-2016 22:42:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-A-11	Lab Sample ID:	480-107471-11		
Client ID:	A2-PZ-1				
Operator ID:	NEA	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

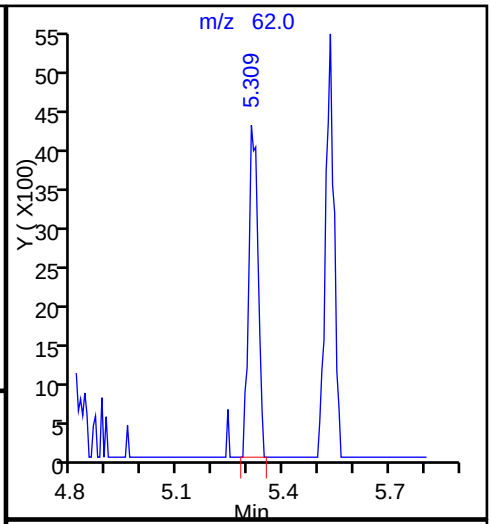
57 1,2-Dichloroethane, CAS: 107-06-2

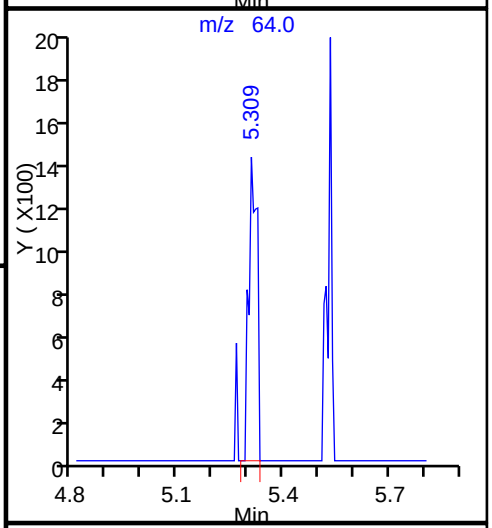


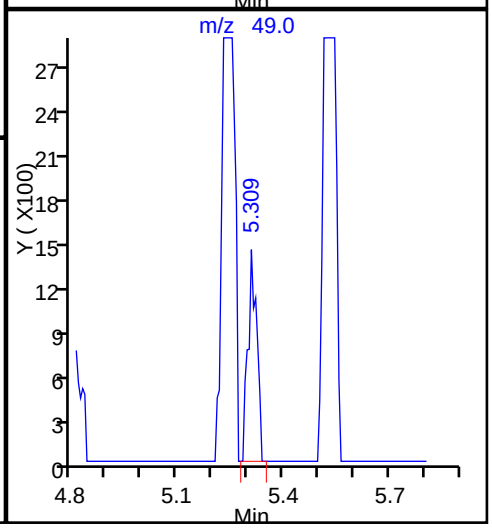










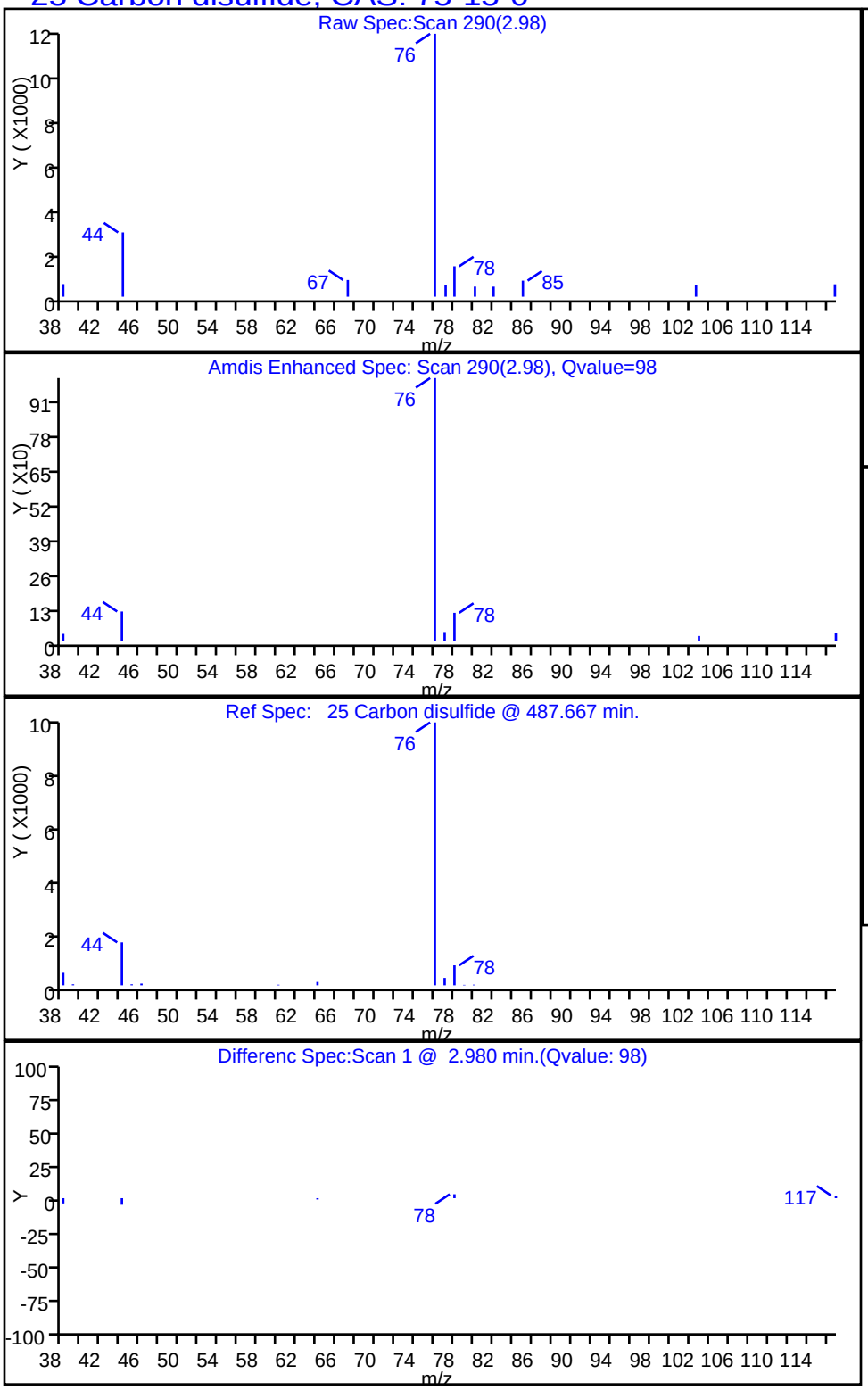


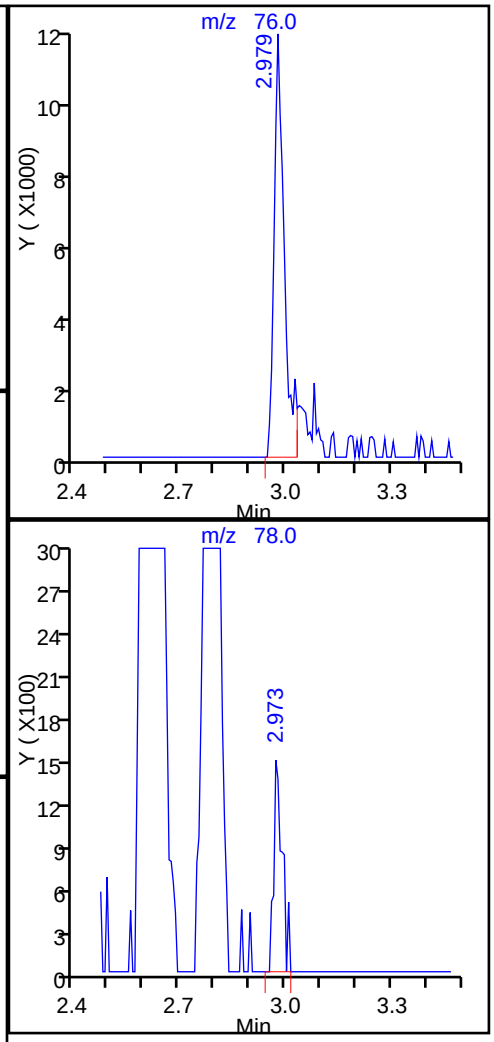
Report Date: 16-Oct-2016 16:57:29 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8923.D				
Injection Date:	15-Oct-2016 22:42:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-A-11	Lab Sample ID:	480-107471-11		
Client ID:	A2-PZ-1				
Operator ID:	NEA	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

25 Carbon disulfide, CAS: 75-15-0



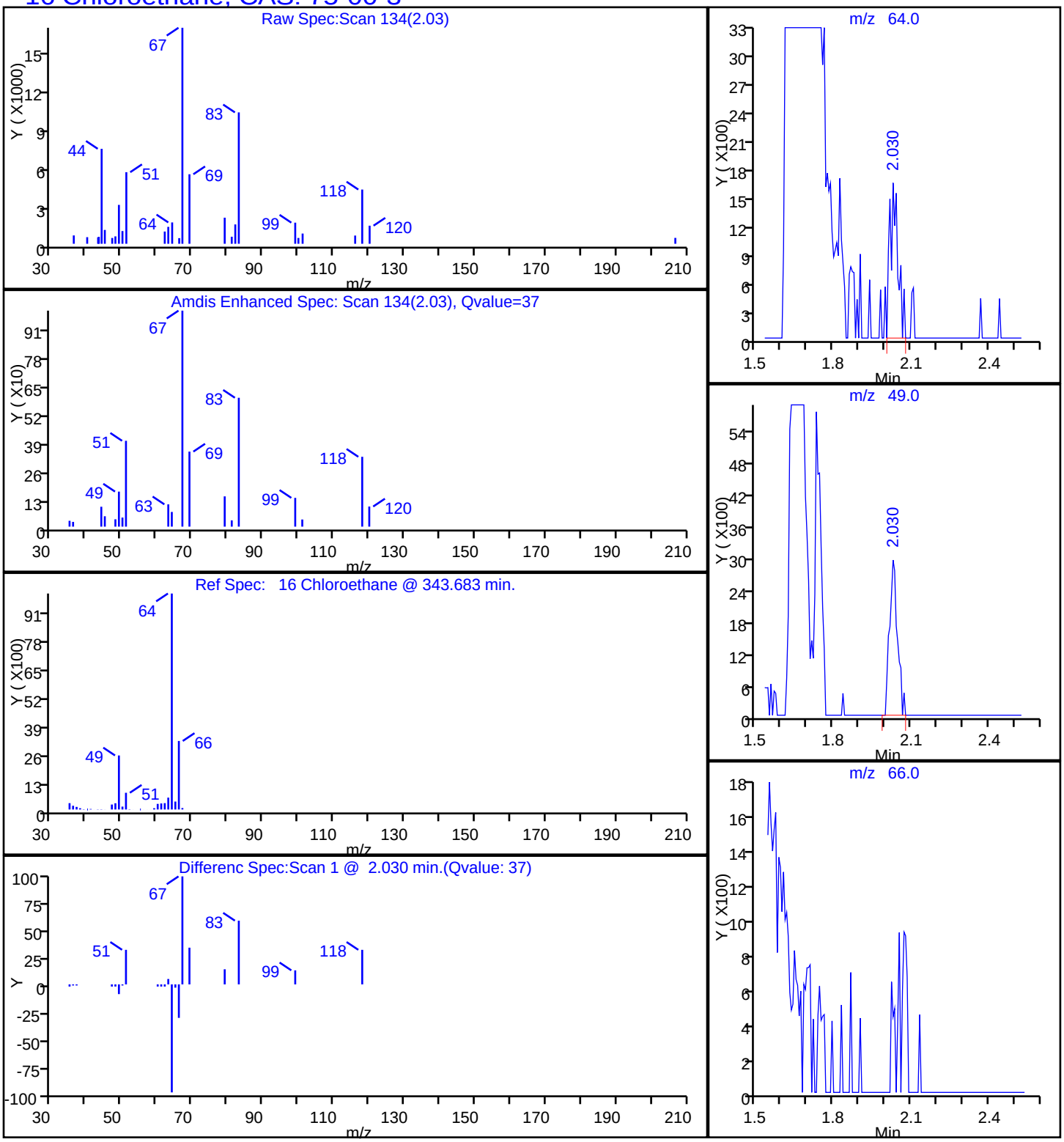


Report Date: 16-Oct-2016 16:57:29 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8923.D				
Injection Date:	15-Oct-2016 22:42:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-A-11	Lab Sample ID:	480-107471-11		
Client ID:	A2-PZ-1				
Operator ID:	NEA	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

16 Chloroethane, CAS: 75-00-3

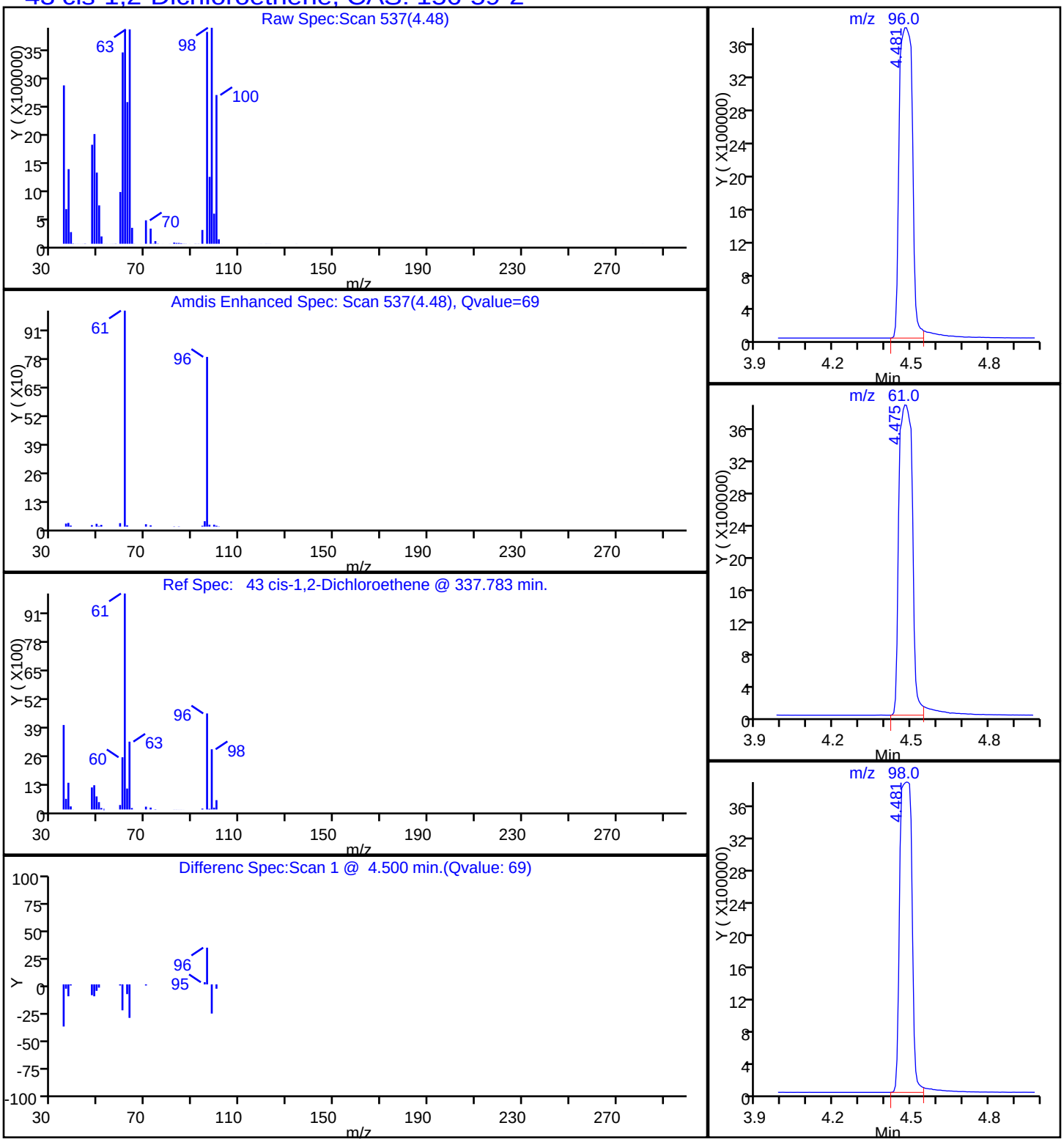


Report Date: 16-Oct-2016 16:57:29 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8923.D				
Injection Date:	15-Oct-2016 22:42:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-A-11	Lab Sample ID:	480-107471-11		
Client ID:	A2-PZ-1				
Operator ID:	NEA	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

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

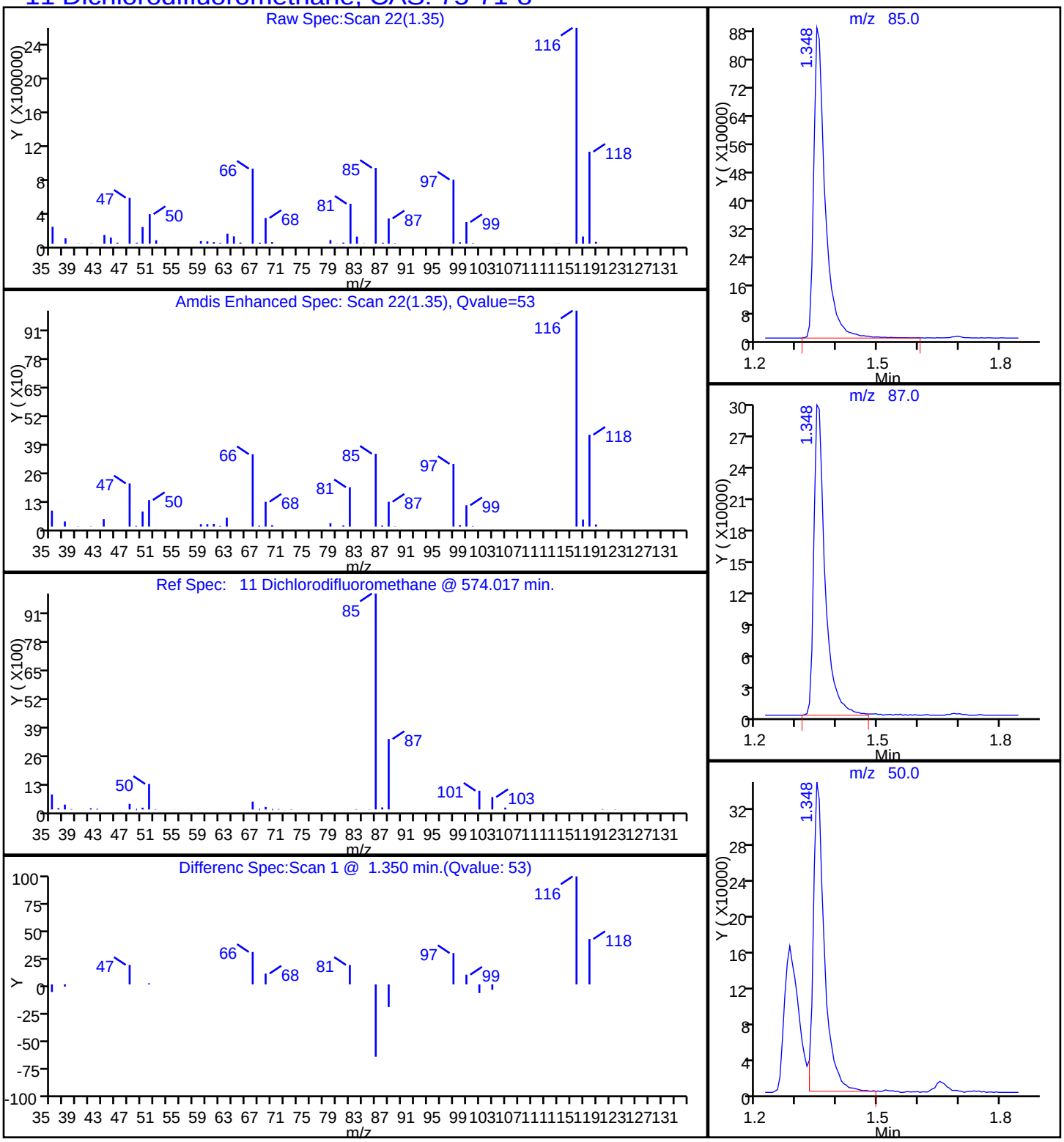


Report Date: 16-Oct-2016 16:57:29 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8923.D				
Injection Date:	15-Oct-2016 22:42:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-A-11	Lab Sample ID:	480-107471-11		
Client ID:	A2-PZ-1				
Operator ID:	NEA	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

11 Dichlorodifluoromethane, CAS: 75-71-8

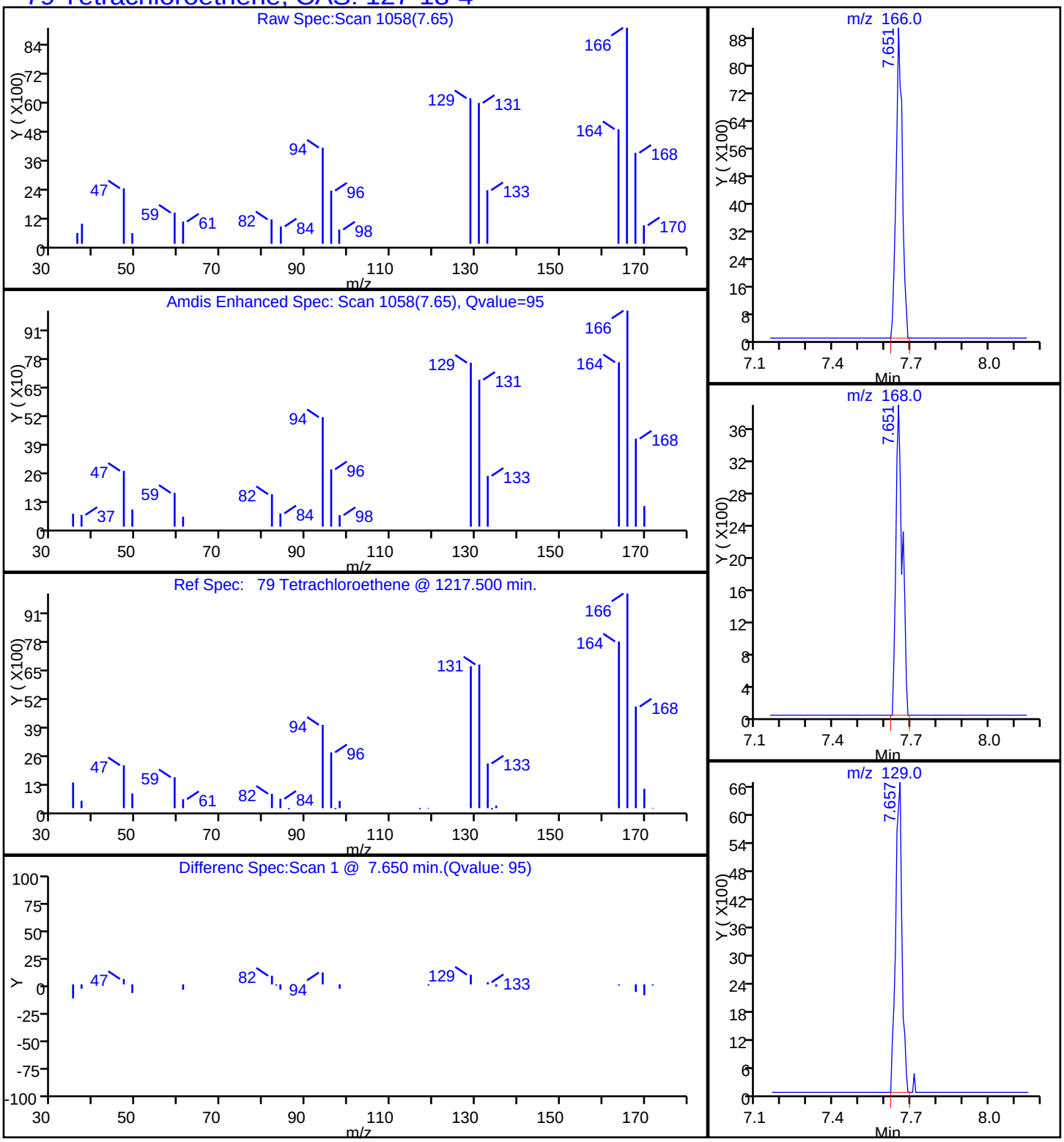


Report Date: 16-Oct-2016 16:57:29 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8923.D				
Injection Date:	15-Oct-2016 22:42:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-A-11	Lab Sample ID:	480-107471-11		
Client ID:	A2-PZ-1				
Operator ID:	NEA	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

79 Tetrachloroethene, CAS: 127-18-4

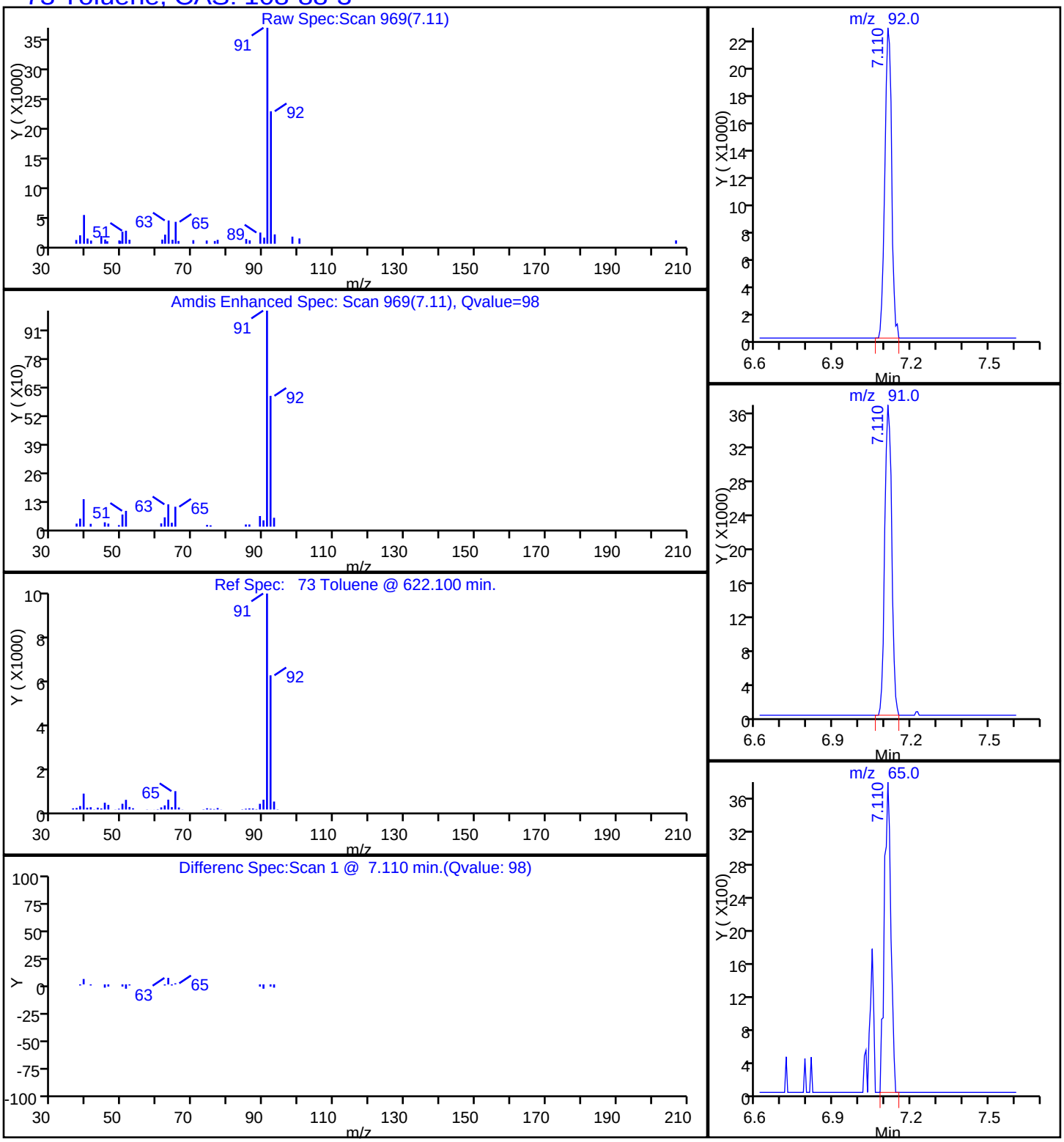


Report Date: 16-Oct-2016 16:57:29 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8923.D				
Injection Date:	15-Oct-2016 22:42:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-A-11	Lab Sample ID:	480-107471-11		
Client ID:	A2-PZ-1				
Operator ID:	NEA	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

73 Toluene, CAS: 108-88-3

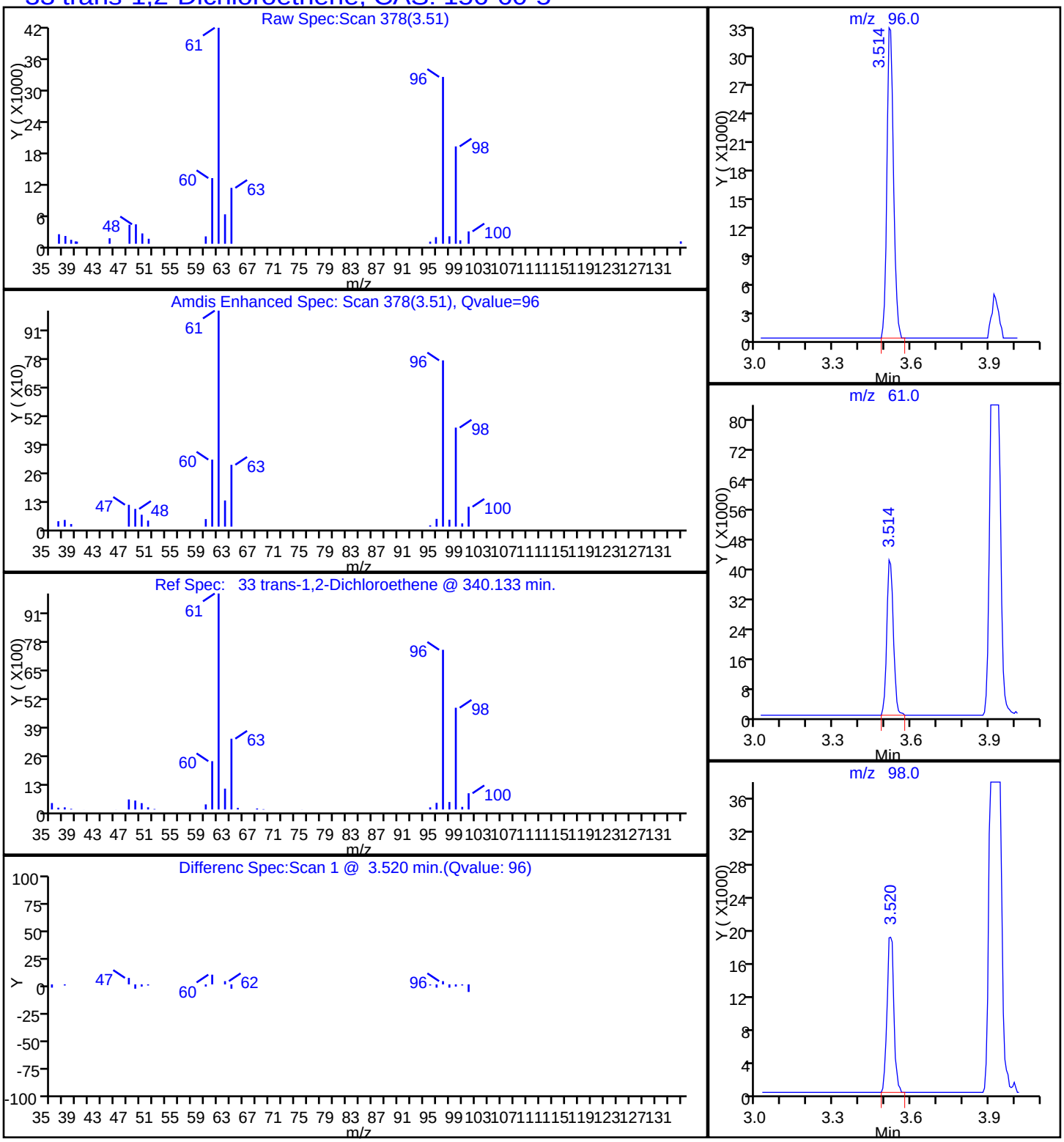


Report Date: 16-Oct-2016 16:57:29 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8923.D				
Injection Date:	15-Oct-2016 22:42:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-A-11	Lab Sample ID:	480-107471-11		
Client ID:	A2-PZ-1				
Operator ID:	NEA	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

33 trans-1,2-Dichloroethene, CAS: 156-60-5

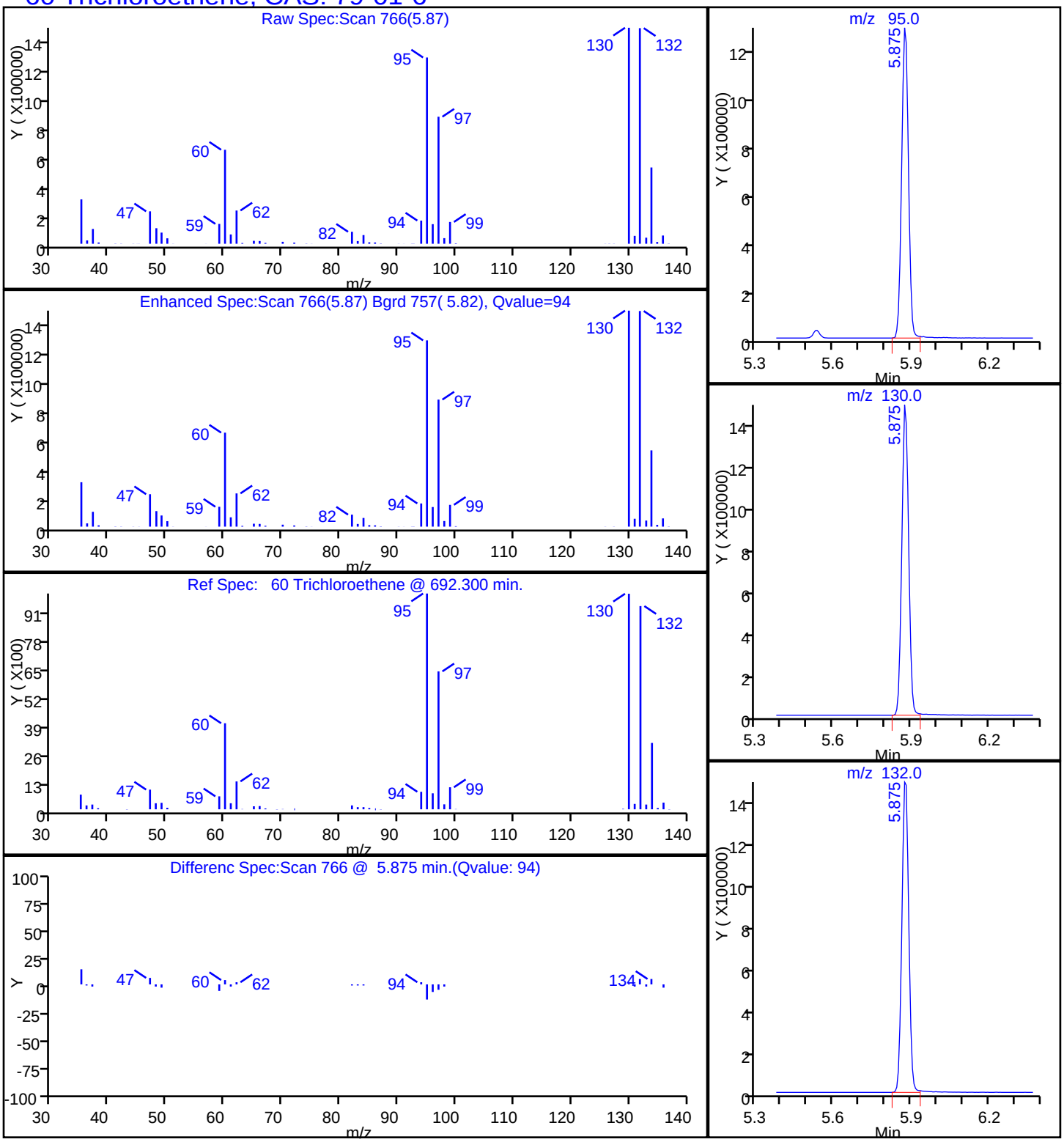


Report Date: 16-Oct-2016 16:57:29 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8923.D				
Injection Date:	15-Oct-2016 22:42:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-A-11	Lab Sample ID:	480-107471-11		
Client ID:	A2-PZ-1				
Operator ID:	NEA	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

60 Trichloroethene, CAS: 79-01-6

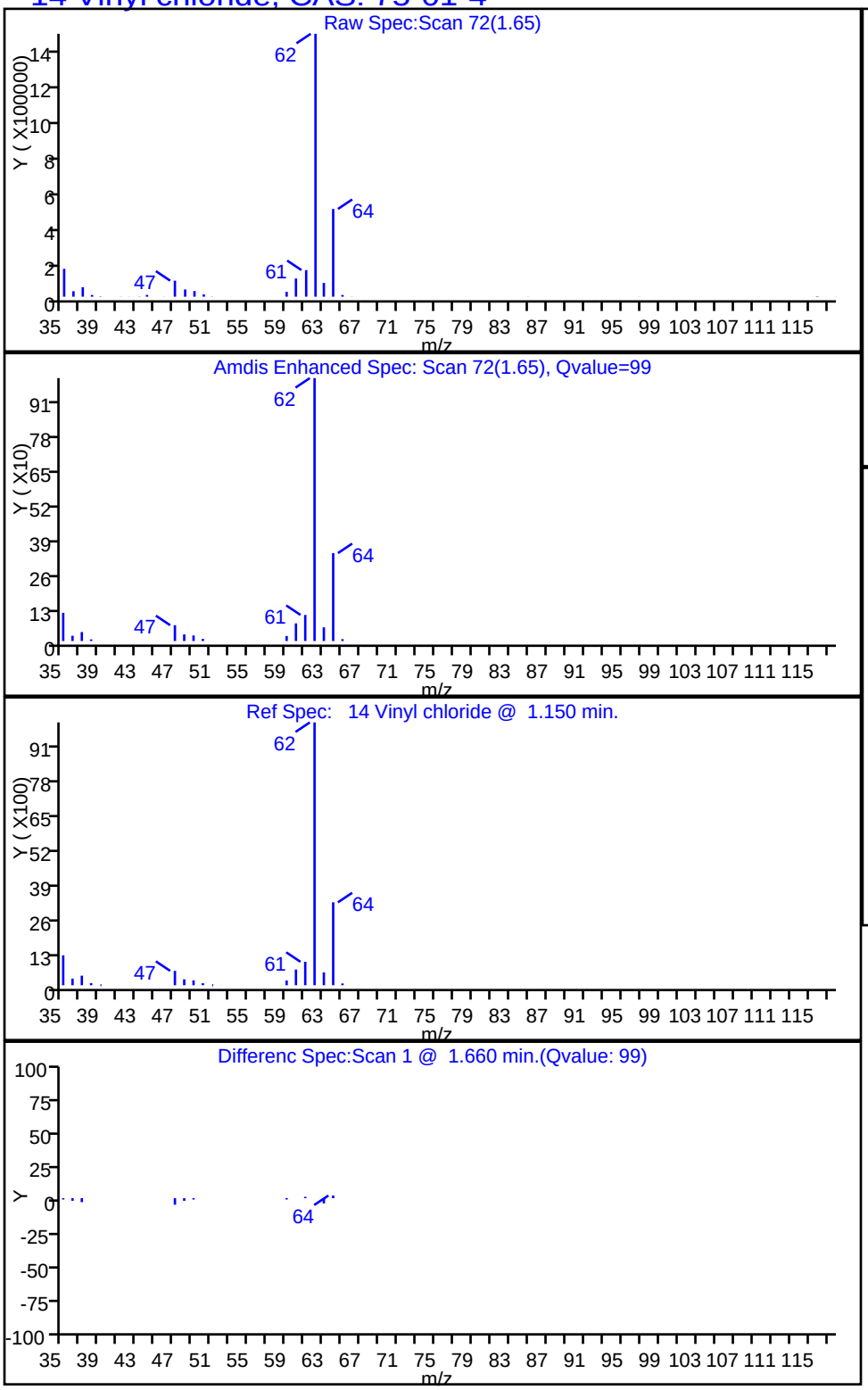


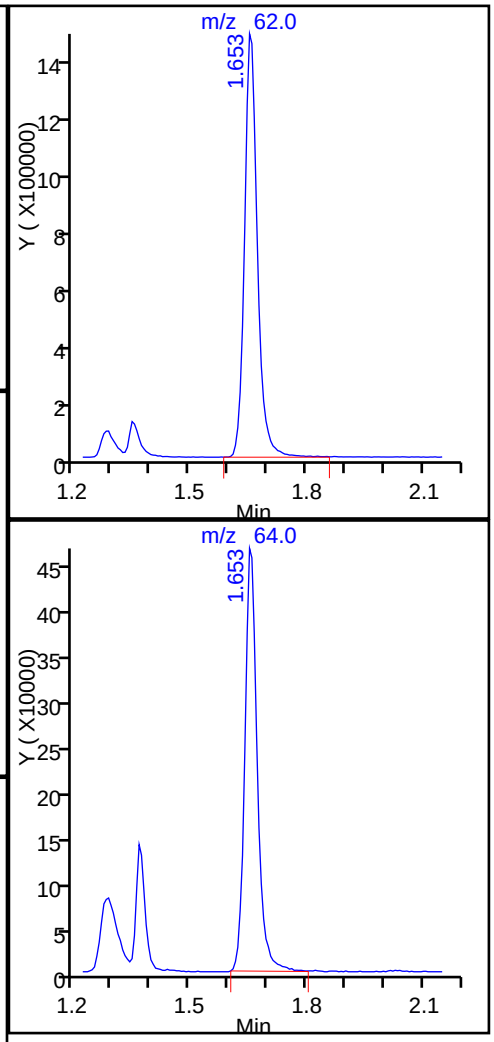
Report Date: 16-Oct-2016 16:57:29 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8923.D				
Injection Date:	15-Oct-2016 22:42:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-A-11	Lab Sample ID:	480-107471-11		
Client ID:	A2-PZ-1				
Operator ID:	NEA	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

14 Vinyl chloride, CAS: 75-01-4





FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: A2-PZ-1 DL | Lab Sample ID: 480-107471-11 DL

Matrix: Water | Lab File ID: N8973.D

Analysis Method: 8260C | Date Collected: 10/11/2016 11:25

Sample wt/vol: 5(mL) | Date Analyzed: 10/17/2016 11:03

Soil Aliquot Vol: | Dilution Factor: 200

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 325955 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		200	160
79-34-5	1,1,2,2-Tetrachloroethane	ND		200	42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	180	J	200	62
79-00-5	1,1,2-Trichloroethane	ND		200	46
75-34-3	1,1-Dichloroethane	600		200	76
75-35-4	1,1-Dichloroethene	ND		200	58
120-82-1	1,2,4-Trichlorobenzene	ND		200	82
96-12-8	1,2-Dibromo-3-Chloropropane	ND		200	78
106-93-4	1,2-Dibromoethane	ND		200	150
95-50-1	1,2-Dichlorobenzene	ND		200	160
107-06-2	1,2-Dichloroethane	ND		200	42
78-87-5	1,2-Dichloropropane	ND		200	140
541-73-1	1,3-Dichlorobenzene	ND		200	160
106-46-7	1,4-Dichlorobenzene	ND		200	170
78-93-3	2-Butanone (MEK)	ND		2000	260
591-78-6	2-Hexanone	ND		1000	250
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		1000	420
67-64-1	Acetone	ND		2000	600
71-43-2	Benzene	ND		200	82
75-27-4	Bromodichloromethane	ND		200	78
75-25-2	Bromoform	ND		200	52
74-83-9	Bromomethane	ND		200	140
75-15-0	Carbon disulfide	ND		200	38
56-23-5	Carbon tetrachloride	ND		200	54
108-90-7	Chlorobenzene	ND		200	150
75-00-3	Chloroethane	ND		200	64
67-66-3	Chloroform	ND		200	68
74-87-3	Chloromethane	ND		200	70
156-59-2	cis-1,2-Dichloroethene	12000	F1	200	160
10061-01-5	cis-1,3-Dichloropropene	ND		200	72
110-82-7	Cyclohexane	ND		200	36
124-48-1	Dibromochloromethane	ND		200	64
75-71-8	Dichlorodifluoromethane	ND		200	140
100-41-4	Ethylbenzene	ND		200	150
98-82-8	Isopropylbenzene	ND		200	160

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: A2-PZ-1 DL | Lab Sample ID: 480-107471-11 DL

Matrix: Water | Lab File ID: N8973.D

Analysis Method: 8260C | Date Collected: 10/11/2016 11:25

Sample wt/vol: 5(mL) | Date Analyzed: 10/17/2016 11:03

Soil Aliquot Vol: | Dilution Factor: 200

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 325955 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		500	260
1634-04-4	Methyl tert-butyl ether	ND		200	32
108-87-2	Methylcyclohexane	ND		200	32
75-09-2	Methylene Chloride	ND		200	88
100-42-5	Styrene	ND		200	150
127-18-4	Tetrachloroethene	ND		200	72
108-88-3	Toluene	ND		200	100
156-60-5	trans-1,2-Dichloroethene	ND		200	180
10061-02-6	trans-1,3-Dichloropropene	ND		200	74
79-01-6	Trichloroethene	530		200	92
75-69-4	Trichlorofluoromethane	ND		200	180
75-01-4	Vinyl chloride	710		200	180
1330-20-7	Xylenes, Total	ND		400	130

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		77-120
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161017-57336.b\N8973.D
Lims ID: 480-107471-C-11
Client ID: A2-PZ-1
Sample Type: Client
Inject. Date: 17-Oct-2016 11:03:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 200.0000
Sample Info: 480-107471-c-11
Misc. Info.: 480-0057336-008a
Operator ID: NEA Instrument ID: HP5973N

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20161017-57336.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 17-Oct-2016 17:43:56 Calib Date: 06-Oct-2016 06:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: youngmans Date: 17-Oct-2016 17:43:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.534	5.534	0.000	99	95454	25.0	
* 2 Chlorobenzene-d5	117	8.527	8.527	0.000	85	396466	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.906	10.906	0.000	93	229418	25.0	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.242	5.242	0.000	0	165987	28.2	
$ 6 Toluene-d8 (Surr)	98	7.043	7.049	-0.006	93	480036	24.8	
$ 7 4-Bromofluorobenzene (Surr	174	9.774	9.774	0.000	95	177670	25.2	
11 Dichlorodifluoromethane	85		1.379				ND	
13 Chloromethane	50		1.525				ND	
14 Vinyl chloride	62	1.640	1.640	0.000	97	20443	3.54	
15 Bromomethane	94		1.932				ND	
16 Chloroethane	64		2.042				ND	
18 Trichlorofluoromethane	101		2.279				ND	
22 1,1-Dichloroethene	96		2.778				ND	
21 1,1,2-Trichloro-1,2,2-trif	101	2.796	2.784	0.012	14	4370	0.8798	
23 Acetone	43		2.869				ND	
25 Carbon disulfide	76		2.973				ND	
28 Methyl acetate	43		3.180				ND	
30 Methylene Chloride	84		3.271				ND	
32 Methyl tert-butyl ether	73		3.508				ND	
33 trans-1,2-Dichloroethene	96		3.514				ND	
36 1,1-Dichloroethane	63	3.922	3.922	0.000	97	29313	2.98	
43 cis-1,2-Dichloroethene	96	4.475	4.475	0.000	81	400842	60.4	
44 2-Butanone (MEK)	43		4.494				ND	
50 Chloroform	83	4.786	4.786	0.007	1	1365	0.1362	7
51 1,1,1-Trichloroethane	97		4.913				ND	
52 Cyclohexane	56		4.938				ND	
53 Carbon tetrachloride	117		5.059				ND	
55 Benzene	78		5.266				ND	
57 1,2-Dichloroethane	62		5.315				ND	
60 Trichloroethene	95	5.875	5.875	0.000	92	14201	2.67	
62 Methylcyclohexane	83		6.021				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
63 1,2-Dichloropropane	63		6.106				ND	
67 Dichlorobromomethane	83		6.386				ND	
71 cis-1,3-Dichloropropene	75		6.805				ND	
72 4-Methyl-2-pentanone (MIBK	58		6.951				ND	
73 Toluene	92		7.110				ND	
75 trans-1,3-Dichloropropene	75		7.371				ND	
78 1,1,2-Trichloroethane	83		7.554				ND	
79 Tetrachloroethene	166		7.651				ND	
82 2-Hexanone	43		7.791				ND	
83 Chlorodibromomethane	129		7.955				ND	
84 Ethylene Dibromide	107		8.065				ND	
85 Chlorobenzene	112		8.557				ND	
88 Ethylbenzene	91		8.655				ND	
90 m-Xylene & p-Xylene	106		8.776				ND	
91 o-Xylene	106		9.202				ND	
92 Styrene	104		9.227				ND	
93 Bromoform	173		9.458				ND	
95 Isopropylbenzene	105		9.586				ND	
98 1,1,2,2-Tetrachloroethane	83		9.957				ND	
110 1,3-Dichlorobenzene	146		10.845				ND	
113 1,4-Dichlorobenzene	146		10.930				ND	
116 1,2-Dichlorobenzene	146		11.277				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.995				ND	
119 1,2,4-Trichlorobenzene	180		12.688				ND	
S 126 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

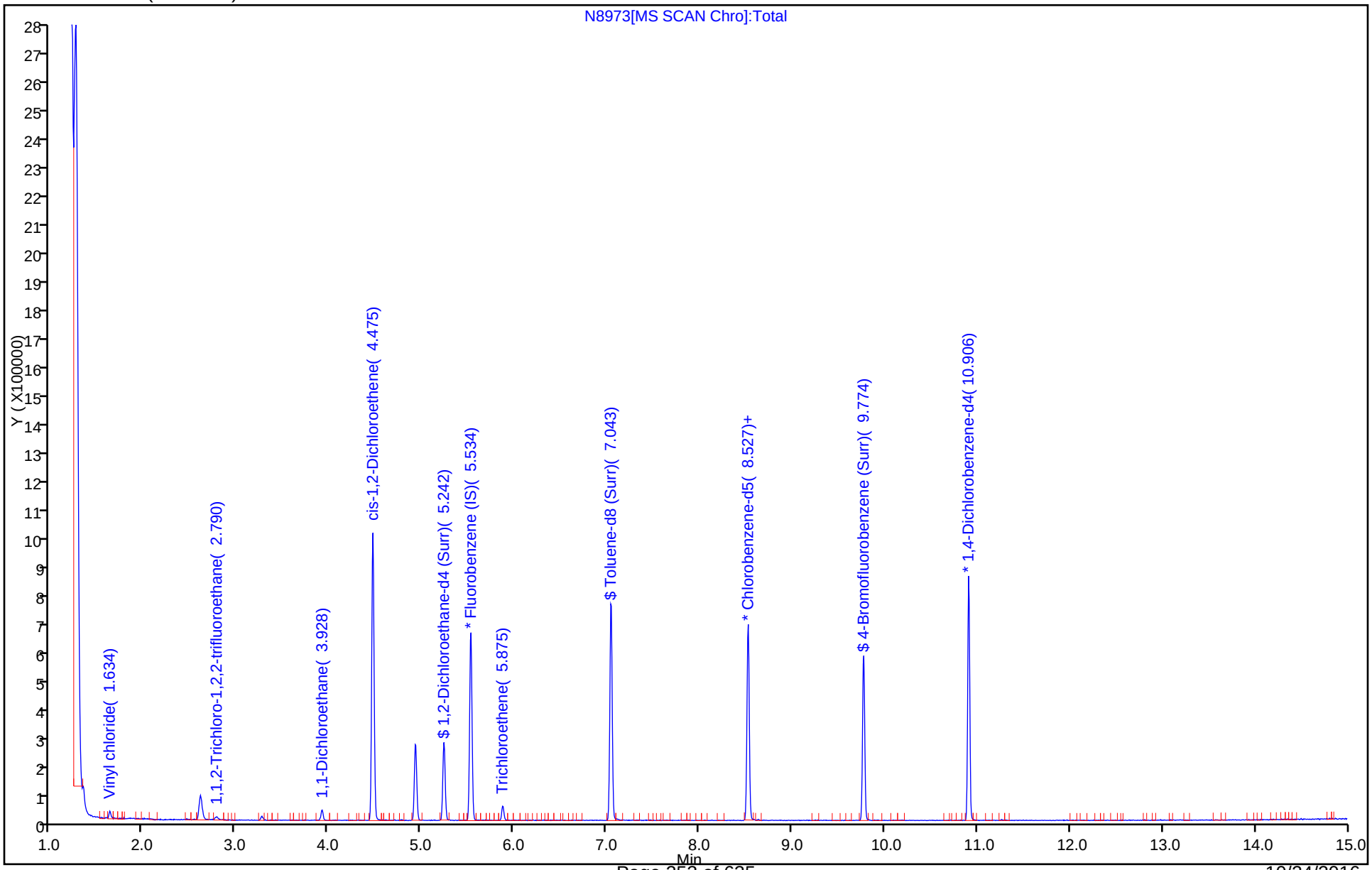
N_8260_Surr_00211	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00038	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 17-Oct-2016 17:43:56 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161017-57336.b\N8973.D				
Injection Date:	17-Oct-2016 11:03:30	Instrument ID:	HP5973N	Operator ID:	NEA
Lims ID:	480-107471-C-11	Lab Sample ID:	480-107471-11	Worklist Smp#:	8
Client ID:	A2-PZ-1				
Purge Vol:	5.000 mL	Dil. Factor:	200.0000	ALS Bottle#:	8
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Recovery Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161017-57336.b\N8973.D				
Lims ID:	480-107471-C-11				
Client ID:	A2-PZ-1				
Sample Type:	Client				
Inject. Date:	17-Oct-2016 11:03:30	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	200.0000		
Sample Info:	480-107471-c-11				
Misc. Info.:	480-0057336-008a				
Operator ID:	NEA	Instrument ID:	HP5973N		

Method:	\\ChromNA\Buffalo\ChromData\HP5973N\20161017-57336.b\N-8260.m		
Limit Group:	MV - 8260C ICAL		
Last Update:	17-Oct-2016 17:43:56	Calib Date:	06-Oct-2016 06:56:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D		

Column 1 :	ZB-624 (0.25 mm)	Det: MS SCAN
Process Host:	XAWRK017	

First Level Reviewer: youngmans Date: 17-Oct-2016 17:43:56

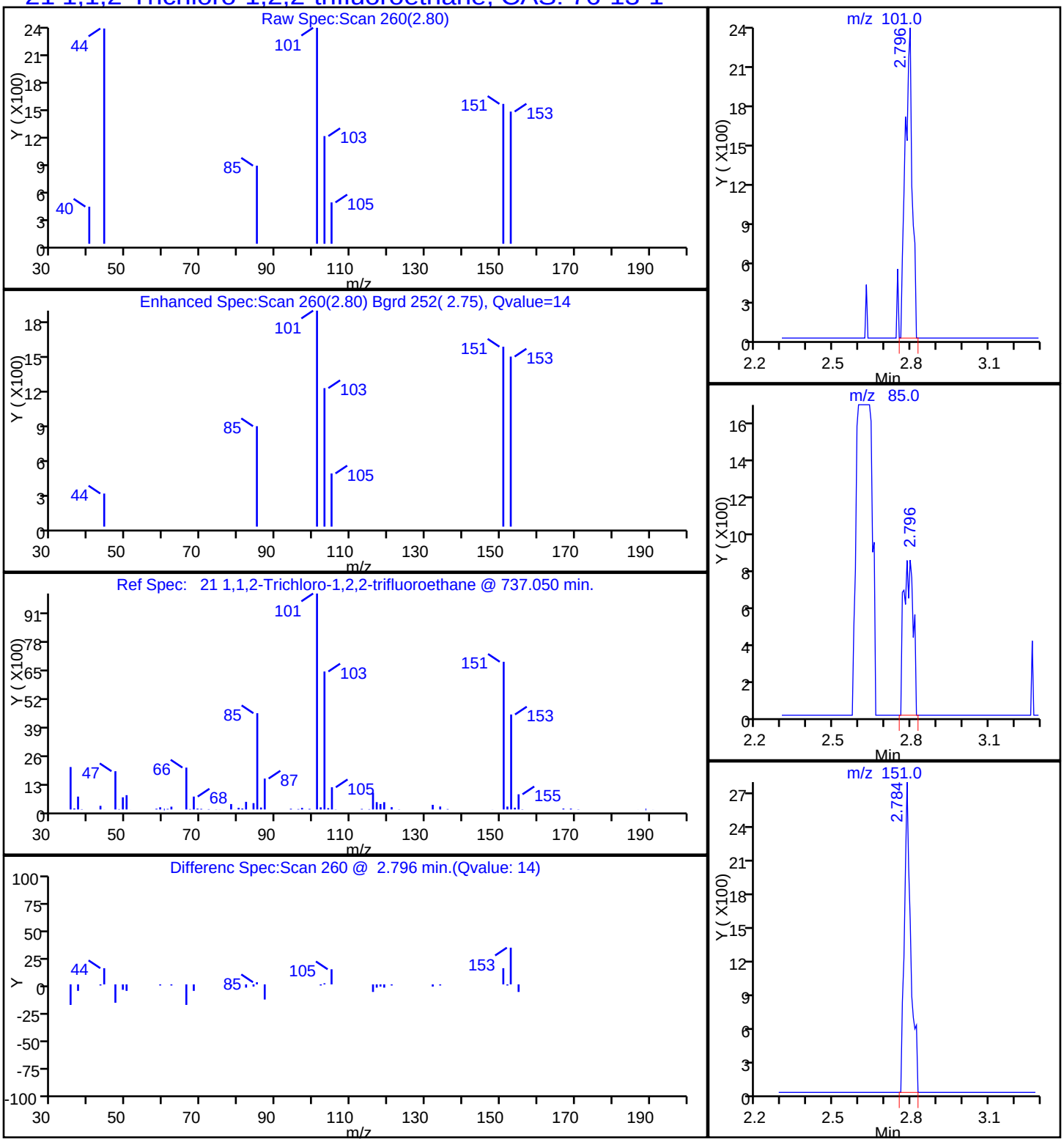
Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	0.0	0	0.00
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	28.2	112.90
$ 6 Toluene-d8 (Surr)	25.0	24.8	99.36
$ 7 4-Bromofluorobenzene (Surr)	25.0	25.2	100.78

Report Date: 17-Oct-2016 17:43:56 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161017-57336.b\N8973.D				
Injection Date:	17-Oct-2016 11:03:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-C-11	Lab Sample ID:	480-107471-11		
Client ID:	A2-PZ-1				
Operator ID:	NEA	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	200.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

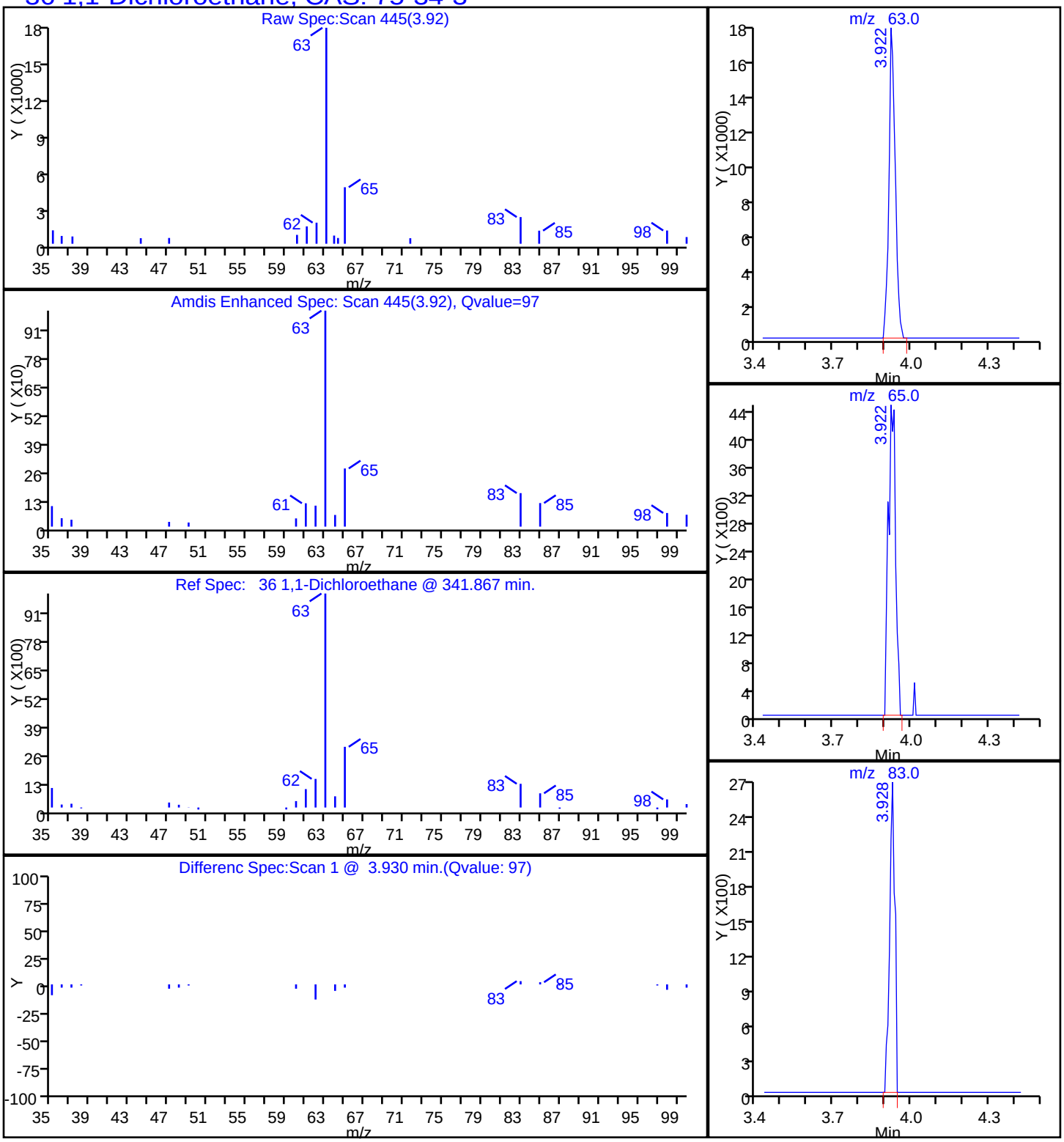


Report Date: 17-Oct-2016 17:43:56 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161017-57336.b\N8973.D				
Injection Date:	17-Oct-2016 11:03:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-C-11	Lab Sample ID:	480-107471-11		
Client ID:	A2-PZ-1				
Operator ID:	NEA	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	200.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

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

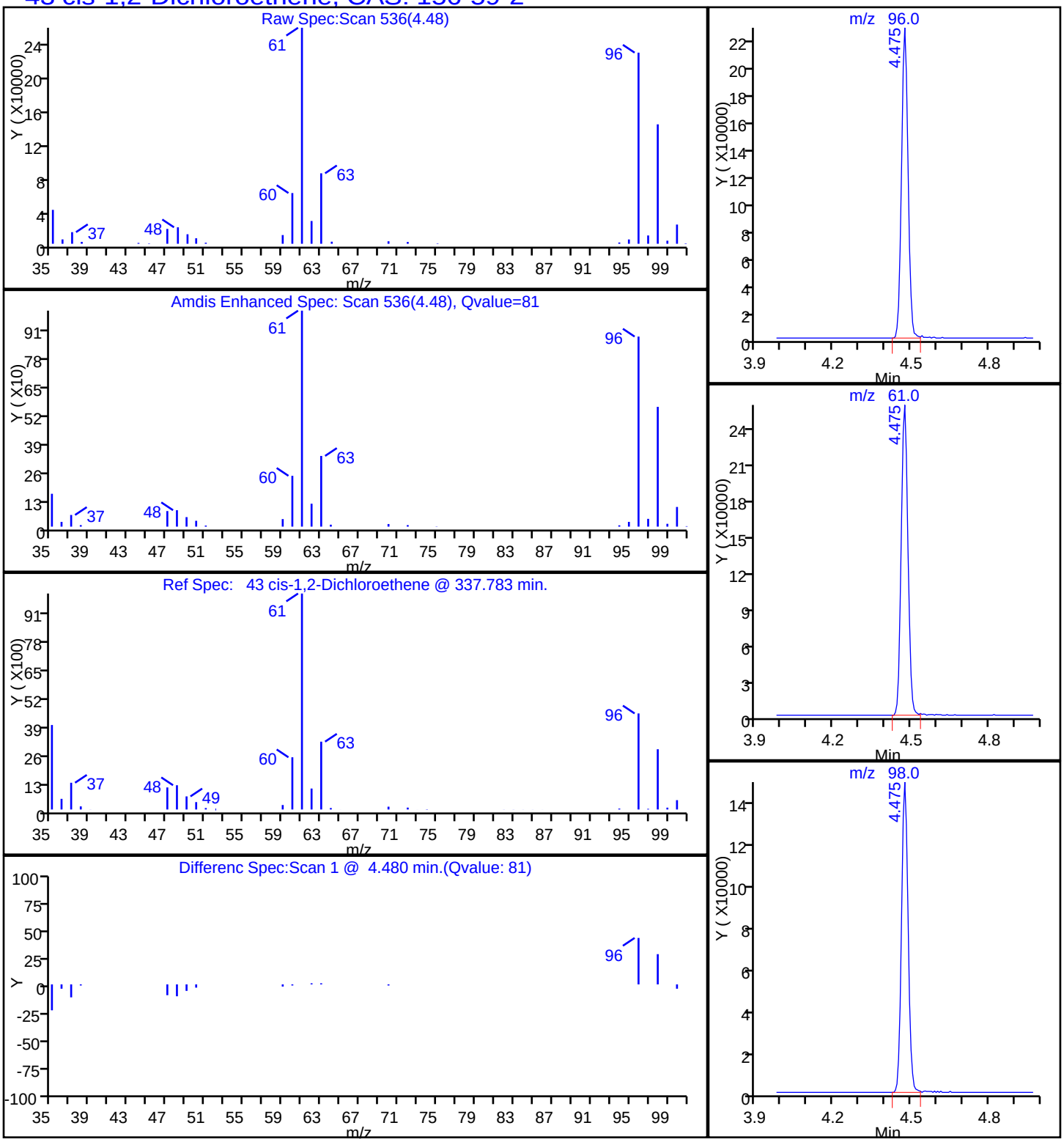


Report Date: 17-Oct-2016 17:43:56 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161017-57336.b\N8973.D				
Injection Date:	17-Oct-2016 11:03:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-C-11	Lab Sample ID:	480-107471-11		
Client ID:	A2-PZ-1				
Operator ID:	NEA	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	200.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

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

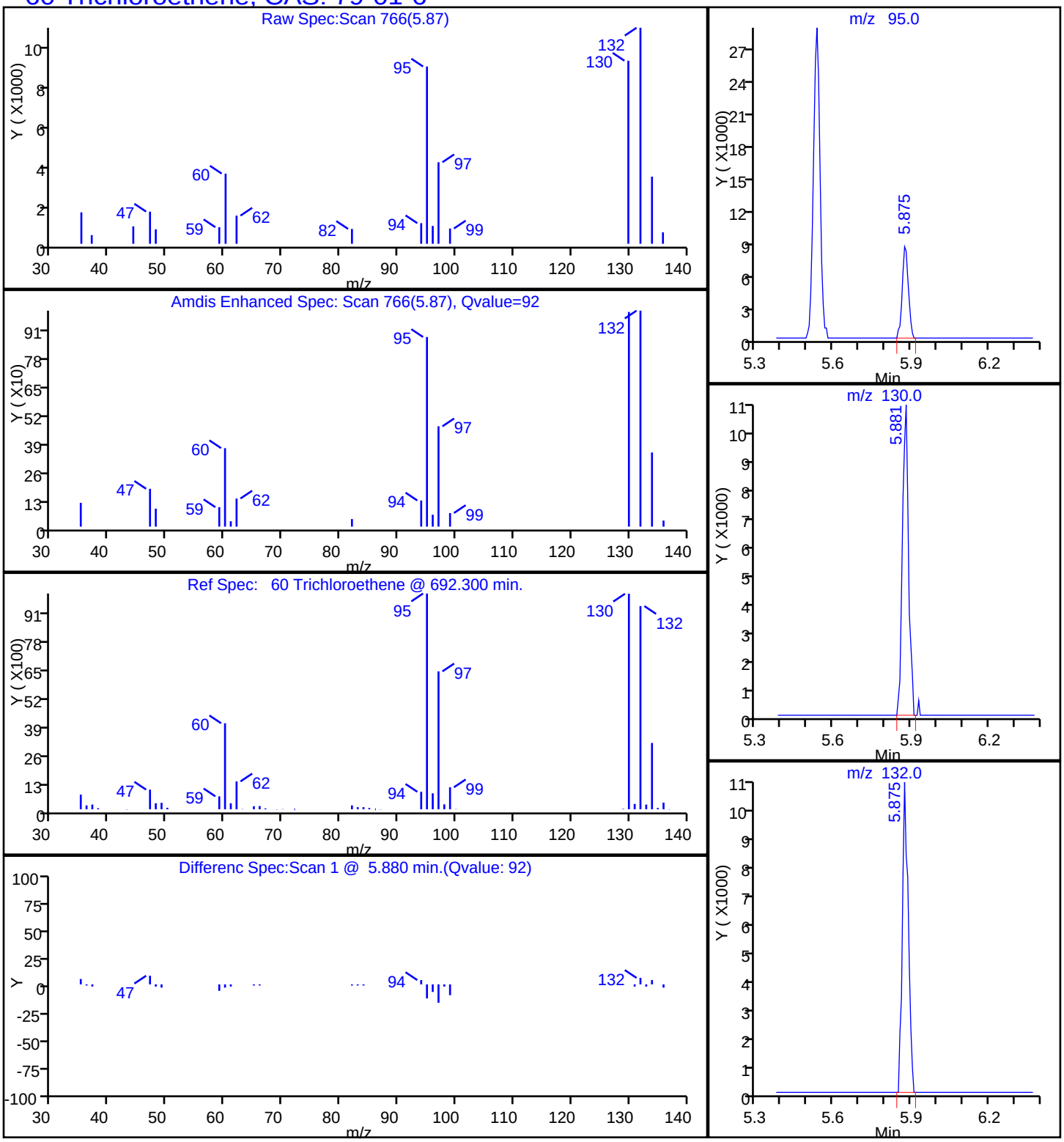


Report Date: 17-Oct-2016 17:43:56 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161017-57336.b\N8973.D				
Injection Date:	17-Oct-2016 11:03:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-C-11	Lab Sample ID:	480-107471-11		
Client ID:	A2-PZ-1				
Operator ID:	NEA	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	200.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

60 Trichloroethene, CAS: 79-01-6

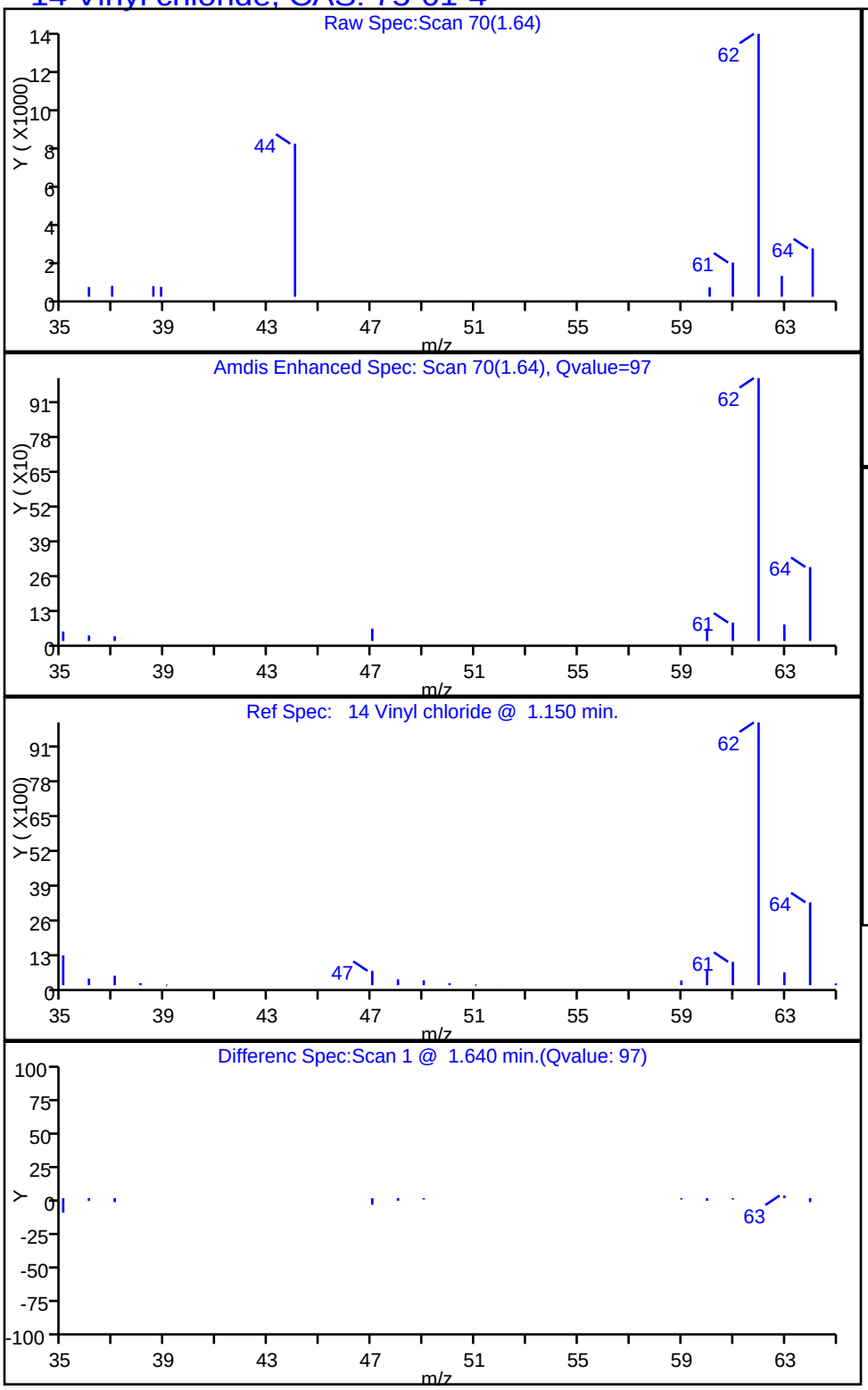


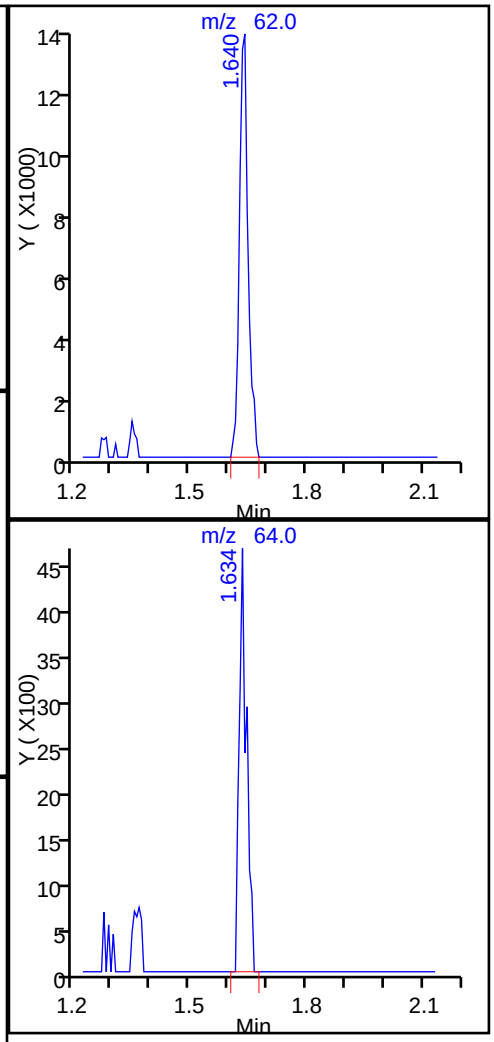
Report Date: 17-Oct-2016 17:43:56 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161017-57336.b\N8973.D				
Injection Date:	17-Oct-2016 11:03:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-C-11	Lab Sample ID:	480-107471-11		
Client ID:	A2-PZ-1				
Operator ID:	NEA	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	200.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

14 Vinyl chloride, CAS: 75-01-4





FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: A2-PZ-2 | Lab Sample ID: 480-107471-12

Matrix: Water | Lab File ID: N8946.D

Analysis Method: 8260C | Date Collected: 10/11/2016 14:25

Sample wt/vol: 5(mL) | Date Analyzed: 10/16/2016 22:21

Soil Aliquot Vol: | Dilution Factor: 8

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 325887 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		8.0	6.6
79-34-5	1,1,2,2-Tetrachloroethane	ND		8.0	1.7
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.0	2.5
79-00-5	1,1,2-Trichloroethane	ND		8.0	1.8
75-34-3	1,1-Dichloroethane	3.4	J	8.0	3.0
75-35-4	1,1-Dichloroethene	ND		8.0	2.3
120-82-1	1,2,4-Trichlorobenzene	ND		8.0	3.3
96-12-8	1,2-Dibromo-3-Chloropropane	ND		8.0	3.1
106-93-4	1,2-Dibromoethane	ND		8.0	5.8
95-50-1	1,2-Dichlorobenzene	ND		8.0	6.3
107-06-2	1,2-Dichloroethane	ND		8.0	1.7
78-87-5	1,2-Dichloropropane	ND		8.0	5.8
541-73-1	1,3-Dichlorobenzene	ND		8.0	6.2
106-46-7	1,4-Dichlorobenzene	ND		8.0	6.7
78-93-3	2-Butanone (MEK)	ND		80	11
591-78-6	2-Hexanone	ND		40	9.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		40	17
67-64-1	Acetone	ND		80	24
71-43-2	Benzene	ND		8.0	3.3
75-27-4	Bromodichloromethane	ND		8.0	3.1
75-25-2	Bromoform	ND		8.0	2.1
74-83-9	Bromomethane	ND		8.0	5.5
75-15-0	Carbon disulfide	ND		8.0	1.5
56-23-5	Carbon tetrachloride	ND		8.0	2.2
108-90-7	Chlorobenzene	ND		8.0	6.0
75-00-3	Chloroethane	ND		8.0	2.6
67-66-3	Chloroform	ND		8.0	2.7
74-87-3	Chloromethane	ND		8.0	2.8
156-59-2	cis-1,2-Dichloroethene	82		8.0	6.5
10061-01-5	cis-1,3-Dichloropropene	ND		8.0	2.9
110-82-7	Cyclohexane	ND		8.0	1.4
124-48-1	Dibromochloromethane	ND		8.0	2.6
75-71-8	Dichlorodifluoromethane	ND	*	8.0	5.4
100-41-4	Ethylbenzene	ND		8.0	5.9
98-82-8	Isopropylbenzene	ND		8.0	6.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: A2-PZ-2 | Lab Sample ID: 480-107471-12

Matrix: Water | Lab File ID: N8946.D

Analysis Method: 8260C | Date Collected: 10/11/2016 14:25

Sample wt/vol: 5(mL) | Date Analyzed: 10/16/2016 22:21

Soil Aliquot Vol: | Dilution Factor: 8

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 325887 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		20	10
1634-04-4	Methyl tert-butyl ether	ND		8.0	1.3
108-87-2	Methylcyclohexane	ND		8.0	1.3
75-09-2	Methylene Chloride	ND		8.0	3.5
100-42-5	Styrene	ND		8.0	5.8
127-18-4	Tetrachloroethene	400	F1	8.0	2.9
108-88-3	Toluene	ND		8.0	4.1
156-60-5	trans-1,2-Dichloroethene	ND		8.0	7.2
10061-02-6	trans-1,3-Dichloropropene	ND		8.0	3.0
79-01-6	Trichloroethene	230		8.0	3.7
75-69-4	Trichlorofluoromethane	ND		8.0	7.0
75-01-4	Vinyl chloride	ND		8.0	7.2
1330-20-7	Xylenes, Total	ND		16	5.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	116		77-120
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
2037-26-5	Toluene-d8 (Surr)	97		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161016-57327.b\N8946.D
Lims ID: 480-107471-B-12
Client ID: A2-PZ-2
Sample Type: Client
Inject. Date: 16-Oct-2016 22:21:30 ALS Bottle#: 10 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 8.0000
Sample Info: 480-107471-b-12
Misc. Info.: 480-0057327-028
Operator ID: JG Instrument ID: HP5973N

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20161016-57327.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 17-Oct-2016 13:54:49 Calib Date: 06-Oct-2016 06:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: archern Date: 17-Oct-2016 13:54:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.534	5.528	0.006	99	92712	25.0	
* 2 Chlorobenzene-d5	117	8.527	8.527	0.000	85	415383	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.906	10.906	0.000	94	233107	25.0	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.242	5.242	0.000	0	165918	29.0	
$ 6 Toluene-d8 (Surr)	98	7.043	7.043	0.000	93	491769	24.3	
$ 7 4-Bromofluorobenzene (Surr	174	9.774	9.774	0.000	96	183085	24.8	
11 Dichlorodifluoromethane	85		1.379				ND	
13 Chloromethane	50		1.525				ND	
14 Vinyl chloride	62	1.634	1.640	-0.006	20	2551	0.4545	
15 Bromomethane	94		1.932				ND	
16 Chloroethane	64		2.042				ND	
18 Trichlorofluoromethane	101		2.285				ND	
22 1,1-Dichloroethene	96		2.778				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.790				ND	
23 Acetone	43		2.869				ND	
25 Carbon disulfide	76		2.973				ND	
28 Methyl acetate	43		3.174				ND	
30 Methylene Chloride	84		3.277				ND	
32 Methyl tert-butyl ether	73		3.502				ND	
33 trans-1,2-Dichloroethene	96		3.514				ND	
36 1,1-Dichloroethane	63	3.928	3.922	0.006	91	4063	0.4248	
43 cis-1,2-Dichloroethene	96	4.475	4.469	0.006	82	65961	10.2	
44 2-Butanone (MEK)	43		4.494				ND	
50 Chloroform	83		4.780				ND	
51 1,1,1-Trichloroethane	97		4.913				ND	
52 Cyclohexane	56		4.938				ND	
53 Carbon tetrachloride	117		5.059				ND	
55 Benzene	78		5.260				ND	
57 1,2-Dichloroethane	62		5.315				ND	
60 Trichloroethene	95	5.875	5.875	0.000	94	145884	28.2	
62 Methylcyclohexane	83		6.021				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
63 1,2-Dichloropropane	63		6.100				ND	
67 Dichlorobromomethane	83		6.386				ND	
71 cis-1,3-Dichloropropene	75		6.805				ND	
72 4-Methyl-2-pentanone (MIBK	58		6.951				ND	
73 Toluene	92		7.110				ND	
75 trans-1,3-Dichloropropene	75		7.371				ND	
78 1,1,2-Trichloroethane	83		7.560				ND	
79 Tetrachloroethene	166	7.657	7.651	0.006	98	331933	50.1	
82 2-Hexanone	43		7.791				ND	
83 Chlorodibromomethane	129		7.961				ND	
84 Ethylene Dibromide	107		8.065				ND	
85 Chlorobenzene	112		8.557				ND	
88 Ethylbenzene	91		8.655				ND	
90 m-Xylene & p-Xylene	106		8.776				ND	
91 o-Xylene	106		9.202				ND	
92 Styrene	104		9.227				ND	
93 Bromoform	173		9.458				ND	
95 Isopropylbenzene	105		9.586				ND	
98 1,1,2,2-Tetrachloroethane	83		9.957				ND	
110 1,3-Dichlorobenzene	146		10.845				ND	
113 1,4-Dichlorobenzene	146		10.930				ND	
116 1,2-Dichlorobenzene	146		11.277				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.995				ND	
119 1,2,4-Trichlorobenzene	180		12.688				ND	
S 126 Xylenes, Total	1		30.000				ND	

Reagents:

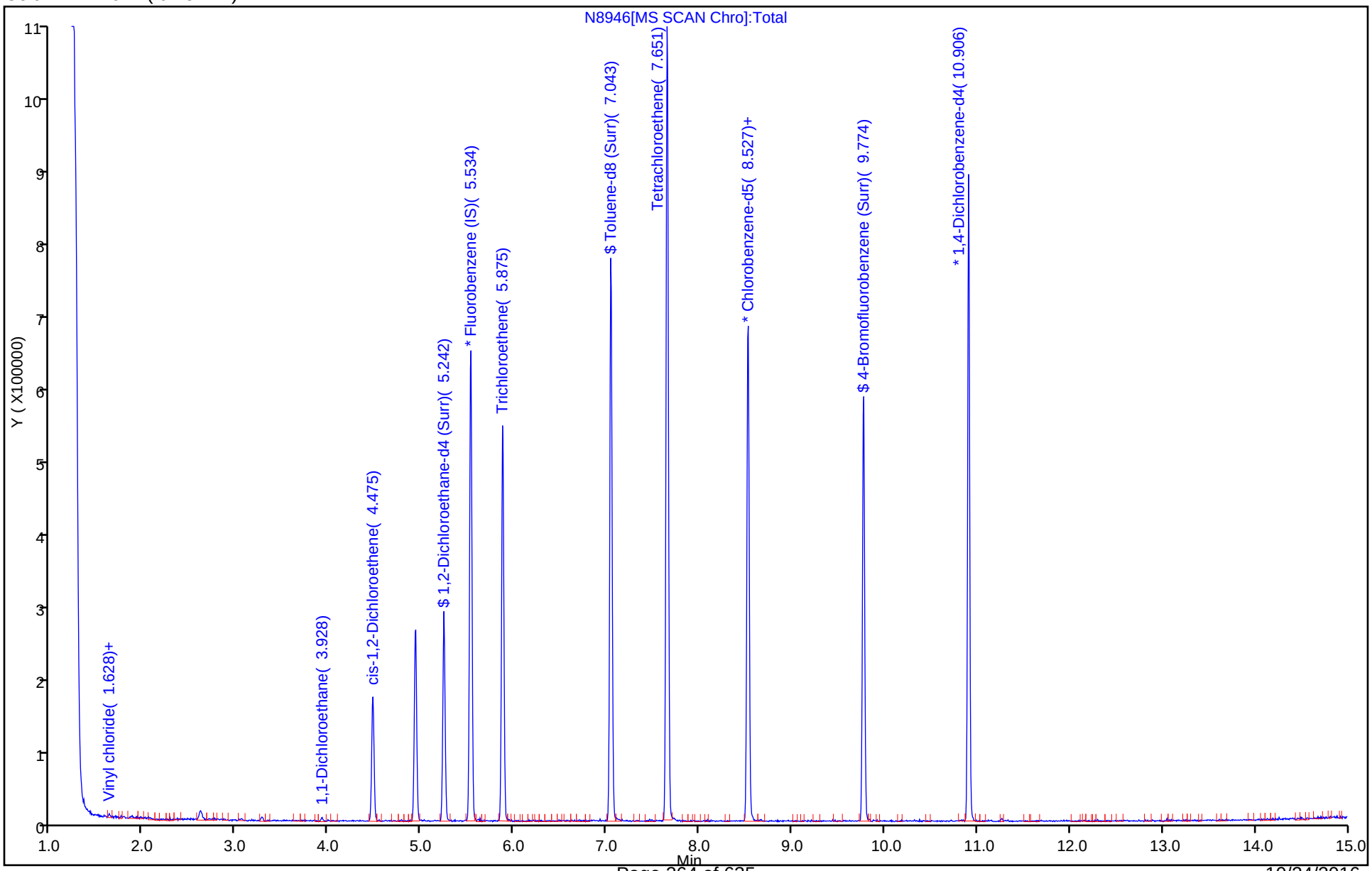
N_8260_Surr_00211	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00038	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 17-Oct-2016 13:54:50 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161016-57327.b\N8946.D				
Injection Date:	16-Oct-2016 22:21:30	Instrument ID:	HP5973N	Operator ID:	JG
Lims ID:	480-107471-B-12	Lab Sample ID:	480-107471-12	Worklist Smp#:	28
Client ID:	A2-PZ-2				
Purge Vol:	5.000 mL	Dil. Factor:	8.0000	ALS Bottle#:	10
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Recovery Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161016-57327.b\N8946.D				
Lims ID:	480-107471-B-12				
Client ID:	A2-PZ-2				
Sample Type:	Client				
Inject. Date:	16-Oct-2016 22:21:30	ALS Bottle#:	10	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	8.0000		
Sample Info:	480-107471-b-12				
Misc. Info.:	480-0057327-028				
Operator ID:	JG	Instrument ID:	HP5973N		

Method:	\\ChromNA\Buffalo\ChromData\HP5973N\20161016-57327.b\N-8260.m		
Limit Group:	MV - 8260C ICAL		
Last Update:	17-Oct-2016 13:54:49	Calib Date:	06-Oct-2016 06:56:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D		

Column 1 :	ZB-624 (0.25 mm)	Det: MS SCAN
Process Host:	XAWRK007	

First Level Reviewer: archern Date: 17-Oct-2016 13:54:49

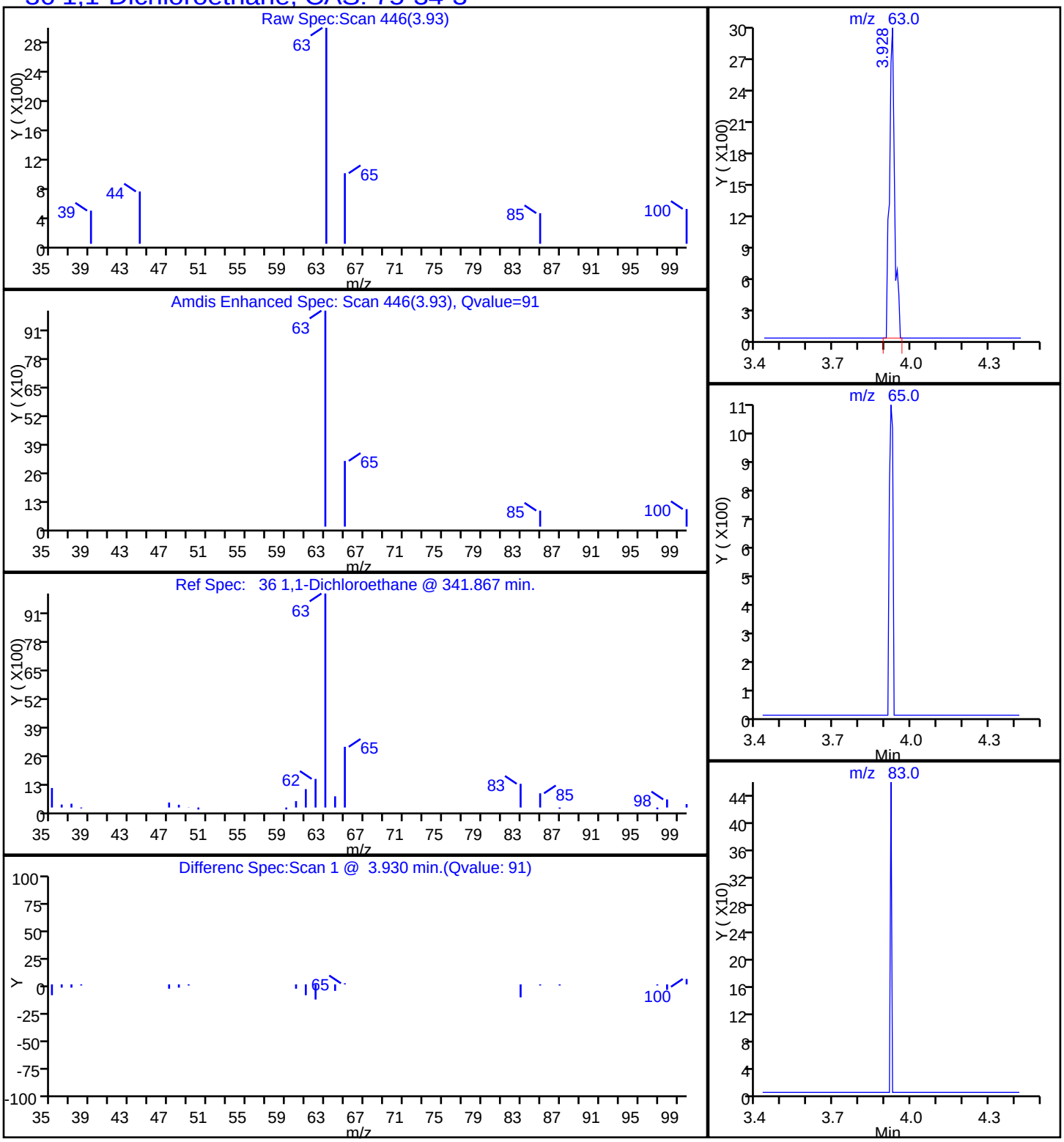
Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	0.0	0	0.00
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	29.0	116.19
$ 6 Toluene-d8 (Surr)	25.0	24.3	97.15
$ 7 4-Bromofluorobenzene (Surr)	25.0	24.8	99.12

Report Date: 17-Oct-2016 13:54:50 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161016-57327.b\N8946.D				
Injection Date:	16-Oct-2016 22:21:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-B-12	Lab Sample ID:	480-107471-12		
Client ID:	A2-PZ-2				
Operator ID:	JG	ALS Bottle#:	10	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	8.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

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

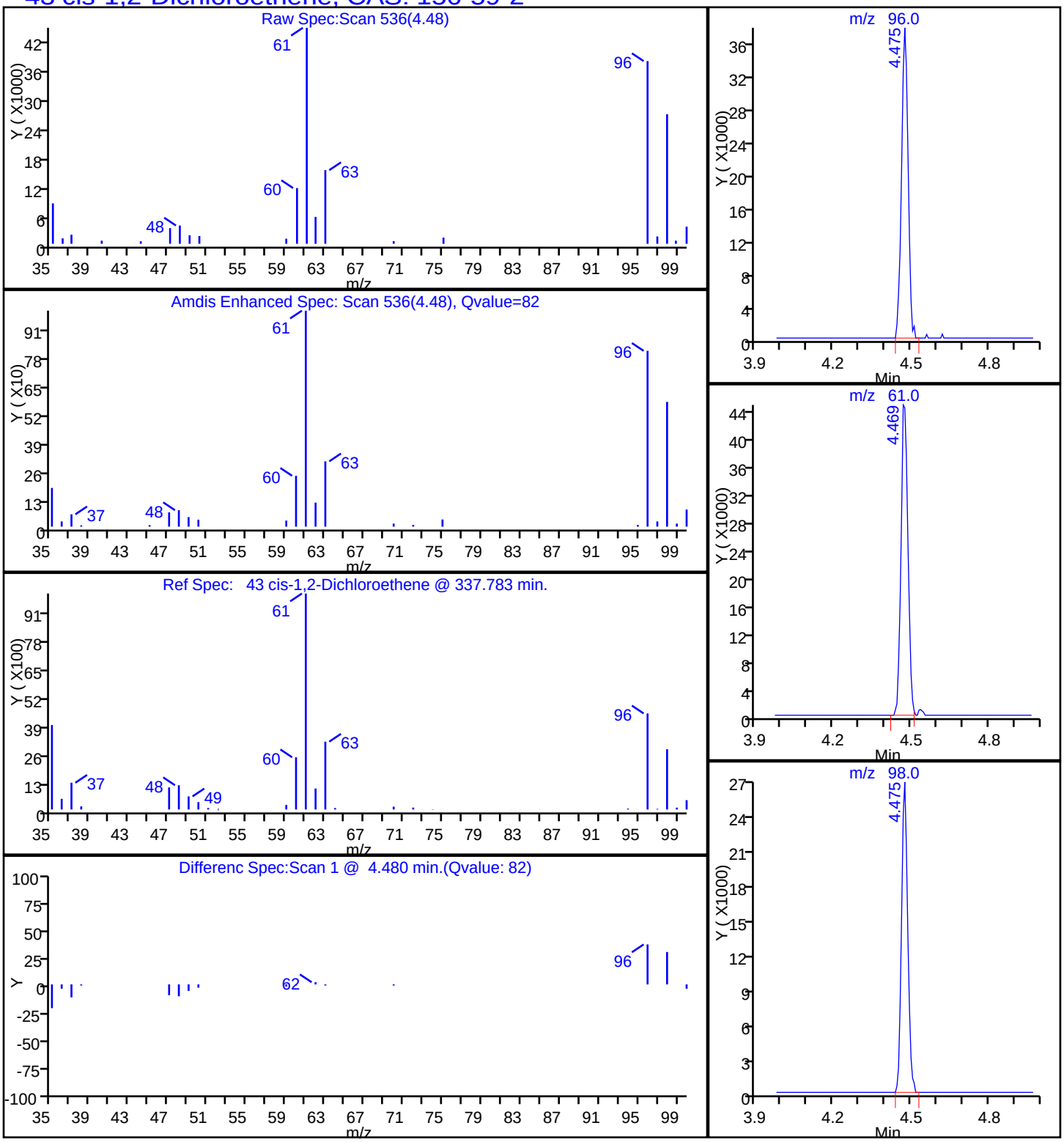


Report Date: 17-Oct-2016 13:54:50 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161016-57327.b\N8946.D				
Injection Date:	16-Oct-2016 22:21:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-B-12	Lab Sample ID:	480-107471-12		
Client ID:	A2-PZ-2				
Operator ID:	JG	ALS Bottle#:	10	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	8.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

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

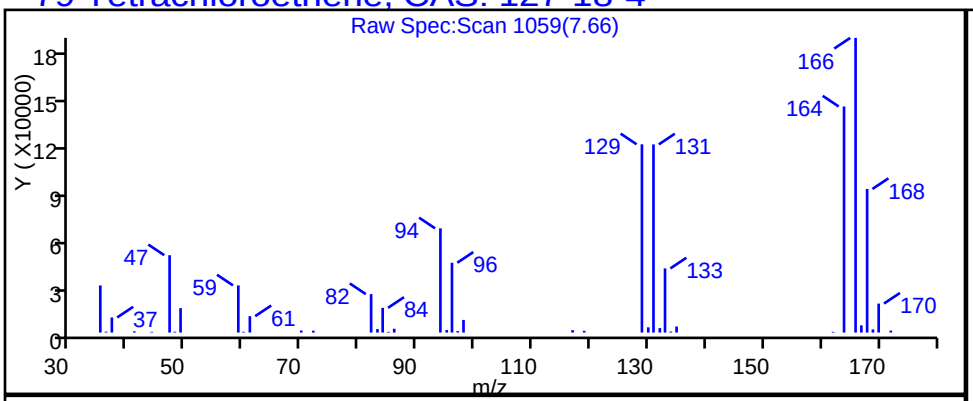


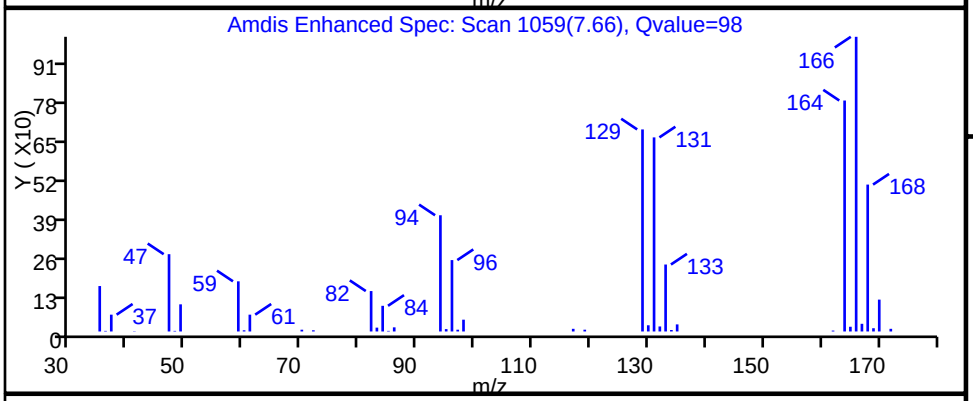
Report Date: 17-Oct-2016 13:54:50 Chrom Revision: 2.2 08-Sep-2016 14:45:52

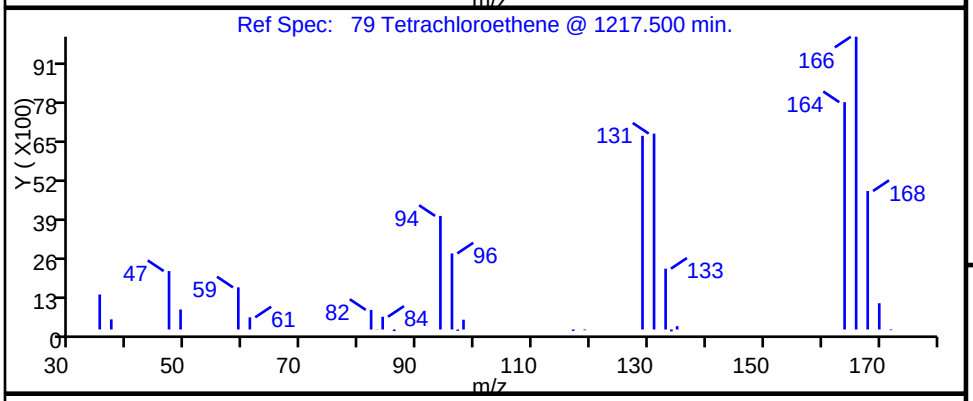
TestAmerica Buffalo

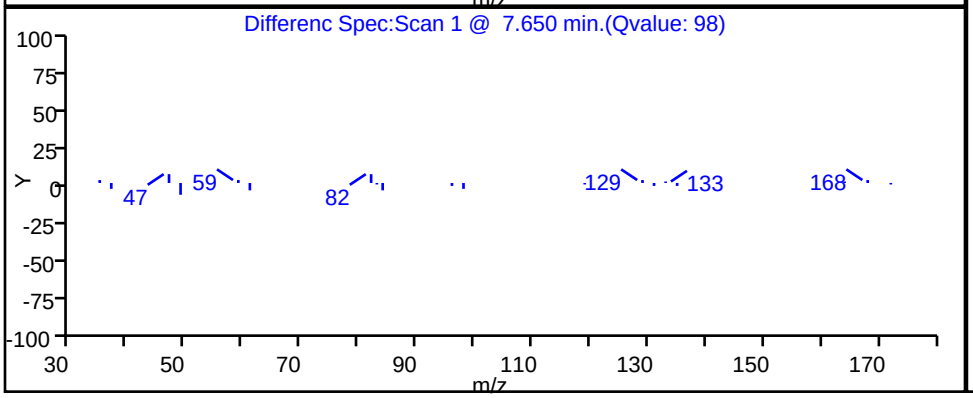
Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161016-57327.b\N8946.D				
Injection Date:	16-Oct-2016 22:21:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-B-12	Lab Sample ID:	480-107471-12		
Client ID:	A2-PZ-2				
Operator ID:	JG	ALS Bottle#:	10	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	8.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

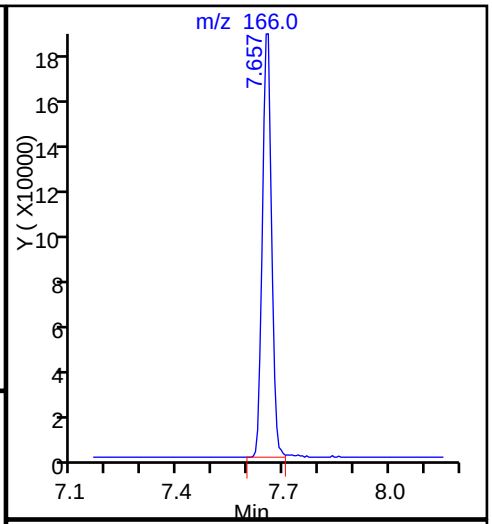
79 Tetrachloroethene, CAS: 127-18-4

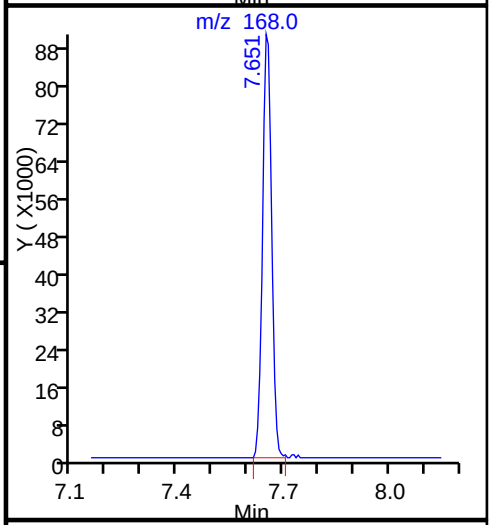


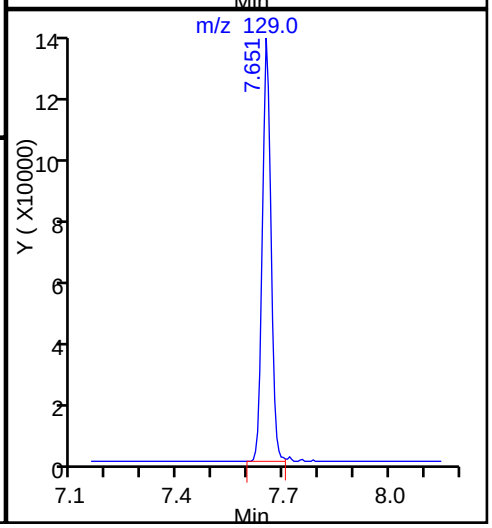










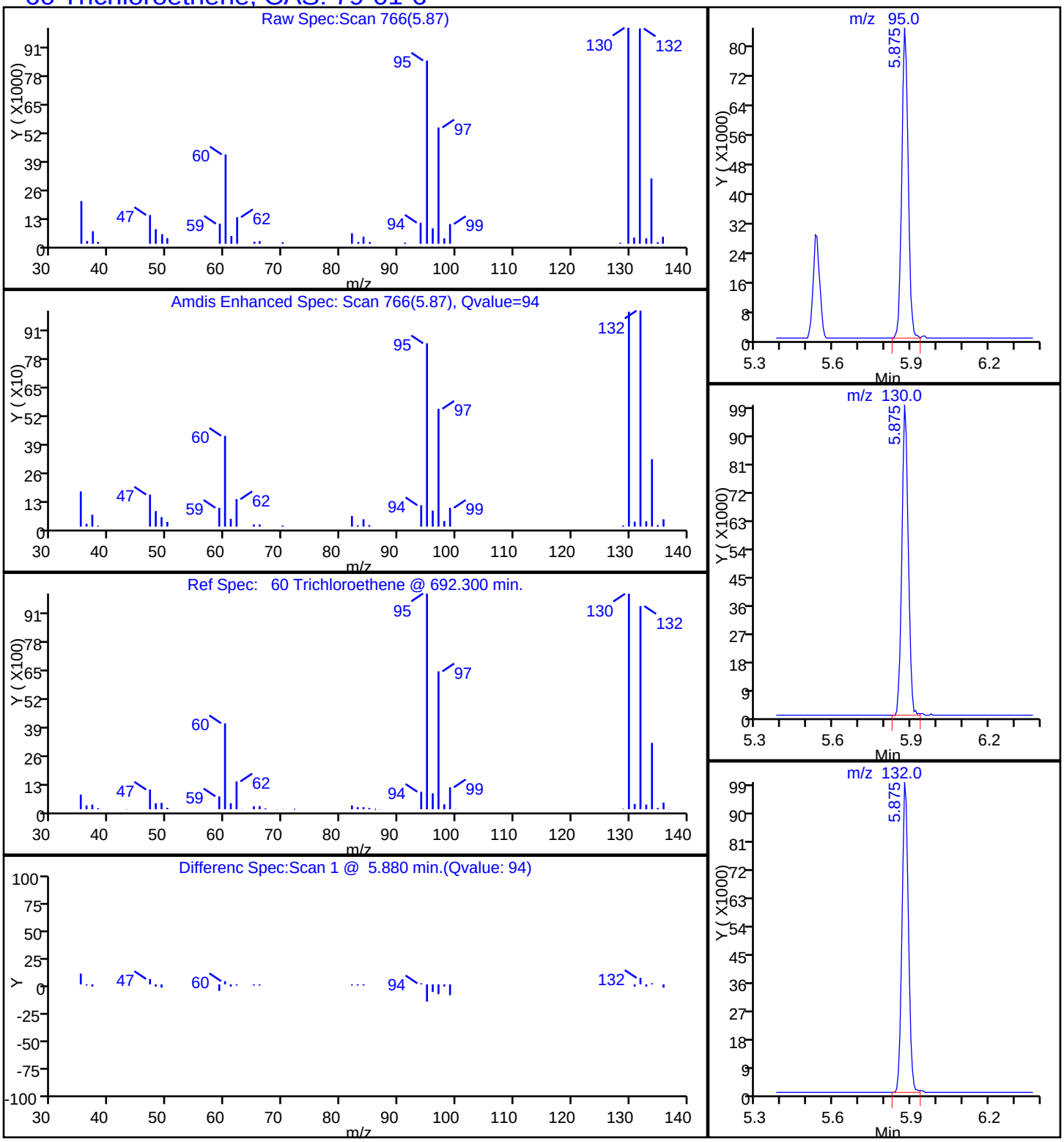


Report Date: 17-Oct-2016 13:54:50 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161016-57327.b\N8946.D				
Injection Date:	16-Oct-2016 22:21:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-B-12	Lab Sample ID:	480-107471-12		
Client ID:	A2-PZ-2				
Operator ID:	JG	ALS Bottle#:	10	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	8.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

60 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: A1-PZ-2 | Lab Sample ID: 480-107471-13

Matrix: Water | Lab File ID: N8925.D

Analysis Method: 8260C | Date Collected: 10/11/2016 10:45

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2016 23:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 325847 | 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.: 480-107471-1

SDG No.:

Client Sample ID: A1-PZ-2 | Lab Sample ID: 480-107471-13

Matrix: Water | Lab File ID: N8925.D

Analysis Method: 8260C | Date Collected: 10/11/2016 10:45

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2016 23:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 325847 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
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)	113		77-120
460-00-4	4-Bromofluorobenzene (Surr)	96		73-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8925.D
Lims ID: 480-107471-A-13
Client ID: A1-PZ-2
Sample Type: Client
Inject. Date: 15-Oct-2016 23:36:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-107471-a-13
Misc. Info.: 480-0057315-015
Operator ID: NEA Instrument ID: HP5973N

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Oct-2016 16:57:29 Calib Date: 06-Oct-2016 06:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK014

First Level Reviewer: gentilej Date: 16-Oct-2016 16:59:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.528	5.534	-0.006	99	96137	25.0	
* 2 Chlorobenzene-d5	117	8.527	8.527	0.000	85	396809	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.906	10.906	0.000	94	215547	25.0	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.242	5.242	0.000	0	167880	28.3	
$ 6 Toluene-d8 (Surr)	98	7.043	7.043	0.000	93	473399	24.5	
$ 7 4-Bromofluorobenzene (Surr	174	9.774	9.774	0.000	95	169917	24.1	
11 Dichlorodifluoromethane	85		1.379				ND	
13 Chloromethane	50		1.525				ND	
14 Vinyl chloride	62		1.640				ND	
15 Bromomethane	94		1.926				ND	
16 Chloroethane	64		2.042				ND	
18 Trichlorofluoromethane	101		2.285				ND	
22 1,1-Dichloroethene	96		2.778				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.778				ND	
23 Acetone	43		2.869				ND	
25 Carbon disulfide	76		2.973				ND	
28 Methyl acetate	43		3.174				ND	
30 Methylene Chloride	84		3.271				ND	
32 Methyl tert-butyl ether	73		3.502				ND	
33 trans-1,2-Dichloroethene	96		3.514				ND	
36 1,1-Dichloroethane	63		3.922				ND	
43 cis-1,2-Dichloroethene	96	4.481	4.469	0.012	72	2932	0.4388	
44 2-Butanone (MEK)	43		4.494				ND	
50 Chloroform	83		4.780				ND	
51 1,1,1-Trichloroethane	97		4.907				ND	
52 Cyclohexane	56		4.938				ND	
53 Carbon tetrachloride	117		5.059				ND	
55 Benzene	78		5.260				ND	
57 1,2-Dichloroethane	62		5.309				ND	
60 Trichloroethene	95		5.875				ND	
62 Methylcyclohexane	83		6.015				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
63 1,2-Dichloropropane	63		6.100				ND	
67 Dichlorobromomethane	83		6.386				ND	
71 cis-1,3-Dichloropropene	75		6.805				ND	
72 4-Methyl-2-pentanone (MIBK	58		6.945				ND	
73 Toluene	92		7.110				ND	
75 trans-1,3-Dichloropropene	75		7.371				ND	
78 1,1,2-Trichloroethane	83		7.554				ND	
79 Tetrachloroethene	166		7.651				ND	
82 2-Hexanone	43		7.785				ND	
83 Chlorodibromomethane	129		7.955				ND	
84 Ethylene Dibromide	107		8.065				ND	
85 Chlorobenzene	112		8.557				ND	
88 Ethylbenzene	91		8.655				ND	
90 m-Xylene & p-Xylene	106		8.776				ND	
91 o-Xylene	106		9.202				ND	
92 Styrene	104		9.227				ND	
93 Bromoform	173		9.458				ND	
95 Isopropylbenzene	105		9.586				ND	
98 1,1,2,2-Tetrachloroethane	83		9.957				ND	
110 1,3-Dichlorobenzene	146		10.845				ND	
113 1,4-Dichlorobenzene	146		10.930				ND	
116 1,2-Dichlorobenzene	146		11.277				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.995				ND	
119 1,2,4-Trichlorobenzene	180		12.688				ND	
S 126 Xylenes, Total	1		30.000				ND	

Reagents:

N_8260_Surr_00211	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00038	Amount Added: 1.00	Units: uL	Run Reagent

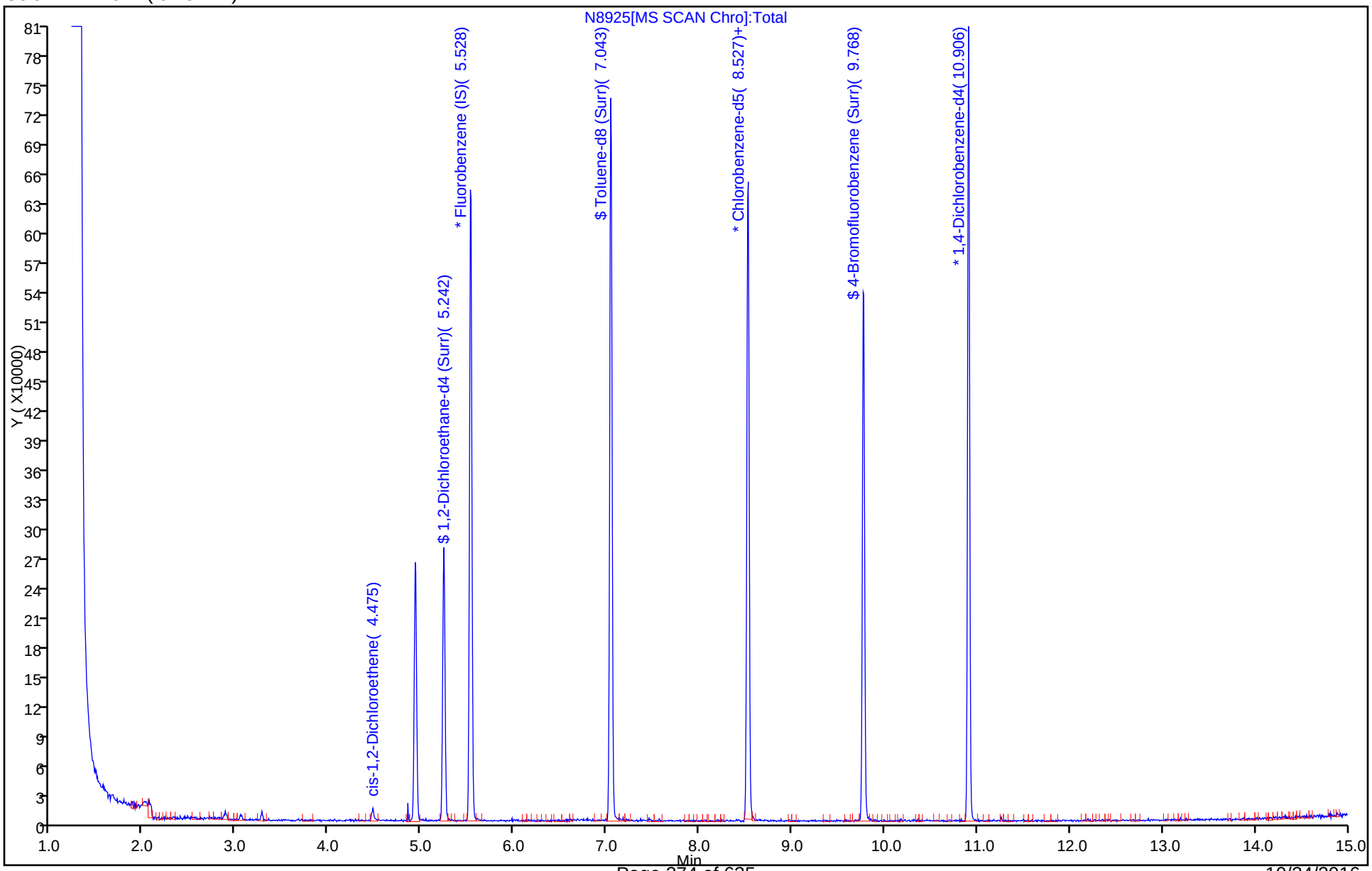
Report Date: 16-Oct-2016 16:59:23 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8925.D

Injection Date:	15-Oct-2016 23:36:30	Instrument ID:	HP5973N	Operator ID:	NEA
Lims ID:	480-107471-A-13	Lab Sample ID:	480-107471-13	Worklist Smp#:	15
Client ID:	A1-PZ-2				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Recovery Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8925.D				
Lims ID:	480-107471-A-13				
Client ID:	A1-PZ-2				
Sample Type:	Client				
Inject. Date:	15-Oct-2016 23:36:30	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	480-107471-a-13				
Misc. Info.:	480-0057315-015				
Operator ID:	NEA	Instrument ID:	HP5973N		

Method:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N-8260.m		
Limit Group:	MV - 8260C ICAL		
Last Update:	16-Oct-2016 16:57:29	Calib Date:	06-Oct-2016 06:56:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D		

Column 1 :	ZB-624 (0.25 mm)	Det: MS SCAN
Process Host:	XAWRK014	

First Level Reviewer: gentilej Date: 16-Oct-2016 16:59:22

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	0.0	0	0.00
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	28.3	113.37
$ 6 Toluene-d8 (Surr)	25.0	24.5	97.90
$ 7 4-Bromofluorobenzene (Surr)	25.0	24.1	96.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: MW-2 | Lab Sample ID: 480-107471-14

Matrix: Water | Lab File ID: P1405.D

Analysis Method: 8260C | Date Collected: 10/10/2016 16:50

Sample wt/vol: 5(mL) | Date Analyzed: 10/14/2016 16:48

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.: 325584 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	F1	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	3.9		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	F1	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	F1	1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND	F1	1.0	0.69
75-15-0	Carbon disulfide	ND	F1	1.0	0.19
56-23-5	Carbon tetrachloride	ND	F1	1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND	F1	1.0	0.32
67-66-3	Chloroform	ND	F1	1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	6.4		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.: 480-107471-1

SDG No.:

Client Sample ID: MW-2 | Lab Sample ID: 480-107471-14

Matrix: Water | Lab File ID: P1405.D

Analysis Method: 8260C | Date Collected: 10/10/2016 16:50

Sample wt/vol: 5(mL) | Date Analyzed: 10/14/2016 16:48

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.: 325584 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
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	1.5		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	F1	1.0	0.88
75-01-4	Vinyl chloride	12		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)	110		77-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1405.D
Lims ID: 480-107471-A-14
Client ID: MW-2
Sample Type: Client
Inject. Date: 14-Oct-2016 16:48:30 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-107471-A-14
Misc. Info.: 480-0057262-017
Operator ID: RF Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Oct-2016 17:42:12 Calib Date: 15-Sep-2016 21:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: youngmans Date: 14-Oct-2016 17:42:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.821	9.821	0.000	98	92185	25.0	
* 2 Chlorobenzene-d5	82	13.764	13.764	0.000	86	195648	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.751	16.751	0.000	96	228658	25.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.450	9.456	-0.006	0	81414	27.6	
$ 5 Toluene-d8 (Surr)	98	11.799	11.799	0.000	94	418225	24.1	
$ 6 4-Bromofluorobenzene (Surr	174	15.272	15.278	-0.006	89	151125	25.4	
10 Dichlorodifluoromethane	85		3.981				ND	
11 Chloromethane	50		4.316				ND	
17 Vinyl chloride	62	4.529	4.529	0.000	98	70470	12.1	
12 Bromomethane	94		5.082				ND	
13 Chloroethane	64		5.204				ND	
14 Trichlorofluoromethane	101		5.605				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.244				ND	
25 1,1-Dichloroethene	96		6.287				ND	
24 Acetone	43		6.323				ND	
27 Carbon disulfide	76		6.664				ND	
30 Methyl acetate	43		6.700				ND	
31 Methylene Chloride	84		6.907				ND	
32 Methyl tert-butyl ether	73		7.163				ND	
35 trans-1,2-Dichloroethene	96	7.242	7.230	0.012	94	9530	1.47	
40 1,1-Dichloroethane	63	7.759	7.753	0.006	97	53853	3.93	
44 2-Butanone (MEK)	43		8.398				ND	
43 cis-1,2-Dichloroethene	96	8.459	8.452	0.007	83	45700	6.42	
49 Chloroform	83		8.805				ND	
52 1,1,1-Trichloroethane	97		9.067				ND	
54 Cyclohexane	56		9.134				ND	
55 Carbon tetrachloride	117		9.268				ND	
57 Benzene	78		9.517				ND	
60 1,2-Dichloroethane	62		9.541				ND	
62 Trichloroethene	95	10.272	10.265	0.007	88	2287	0.3366	
64 Methylcyclohexane	83		10.509				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
63 1,2-Dichloropropane	63		10.582				ND	
70 Dichlorobromomethane	83		10.904				ND	
73 cis-1,3-Dichloropropene	75		11.446				ND	
75 4-Methyl-2-pentanone (MIBK	43		11.555				ND	
76 Toluene	92		11.884				ND	
78 trans-1,3-Dichloropropene	75		12.145				ND	
79 1,1,2-Trichloroethane	83		12.431				ND	
80 Tetrachloroethene	166		12.632				ND	
83 2-Hexanone	43		12.638				ND	
81 Chlorodibromomethane	129		13.009				ND	
85 Ethylene Dibromide	107		13.210				ND	
87 Chlorobenzene	112		13.800				ND	
89 Ethylbenzene	91		13.867				ND	
90 m-Xylene & p-Xylene	106		14.007				ND	
93 o-Xylene	106		14.560				ND	
94 Styrene	104		14.573				ND	
92 Bromoform	173		14.931				ND	
95 Isopropylbenzene	105		14.998				ND	
97 1,1,2,2-Tetrachloroethane	83		15.424				ND	
110 1,3-Dichlorobenzene	146		16.677				ND	
111 1,4-Dichlorobenzene	146		16.781				ND	
116 1,2-Dichlorobenzene	146		17.268				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.241				ND	
119 1,2,4-Trichlorobenzene	180		19.318				ND	
S 126 Xylenes, Total	1		30.000				ND	

Reagents:

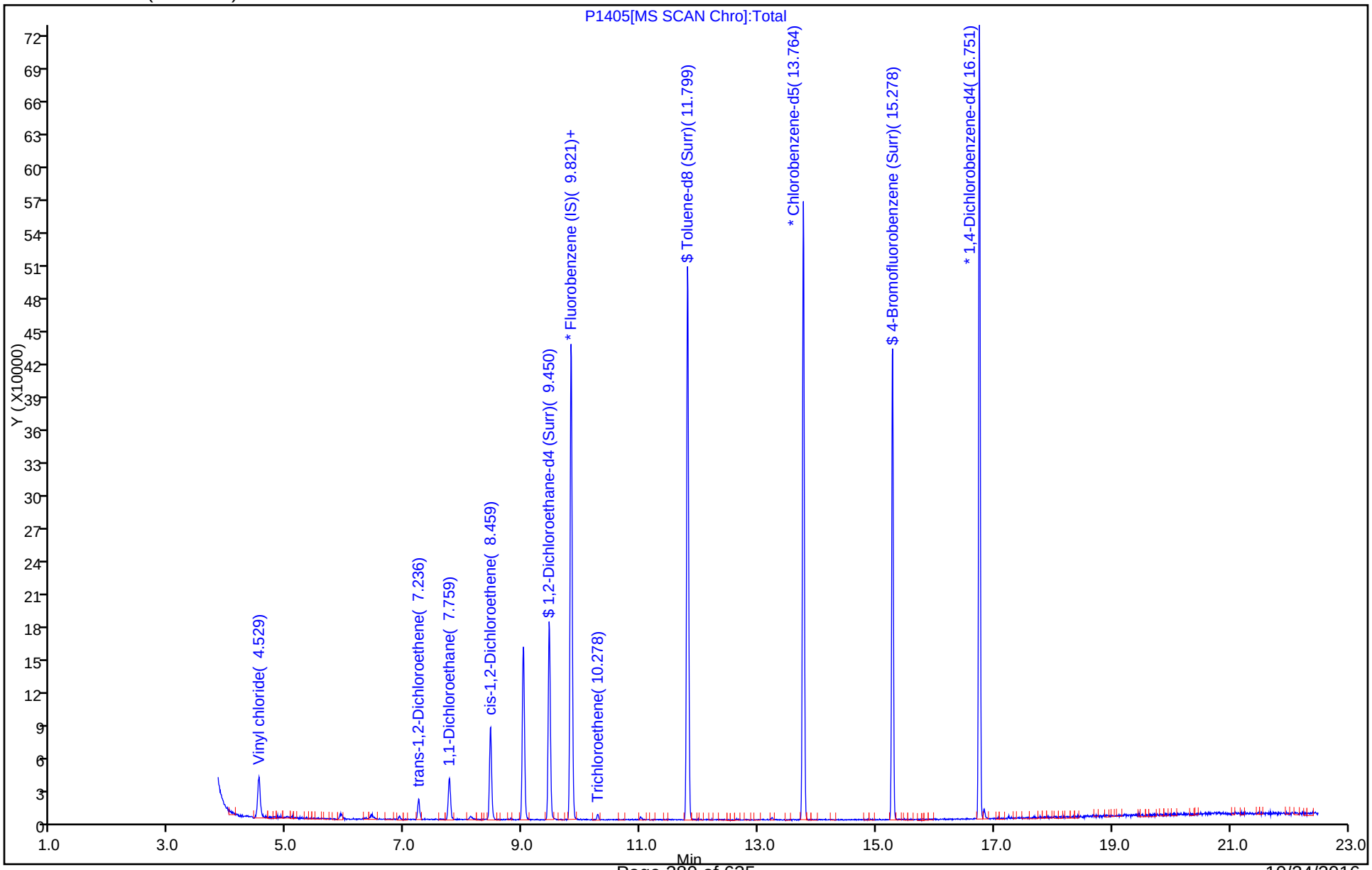
P 8260 IS_00173	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00197	Amount Added: 1.25	Units: uL	Run Reagent

Report Date: 14-Oct-2016 17:42:13 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1405.D				
Injection Date:	14-Oct-2016 16:48:30	Instrument ID:	HP5973P	Operator ID:	RF
Lims ID:	480-107471-A-14	Lab Sample ID:	480-107471-14	Worklist Smp#:	17
Client ID:	MW-2				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Recovery Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1405.D				
Lims ID:	480-107471-A-14				
Client ID:	MW-2				
Sample Type:	Client				
Inject. Date:	14-Oct-2016 16:48:30	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	480-107471-A-14				
Misc. Info.:	480-0057262-017				
Operator ID:	RF	Instrument ID:	HP5973P		

Method:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P-8260H2O.m		
Limit Group:	MV - 8260C ICAL		
Last Update:	14-Oct-2016 17:42:12	Calib Date:	15-Sep-2016 21:21:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D		

Column 1 :	ZB-624 (0.25 mm)	Det: MS SCAN
Process Host:	XAWRK008	

First Level Reviewer: youngmans Date: 14-Oct-2016 17:42:12

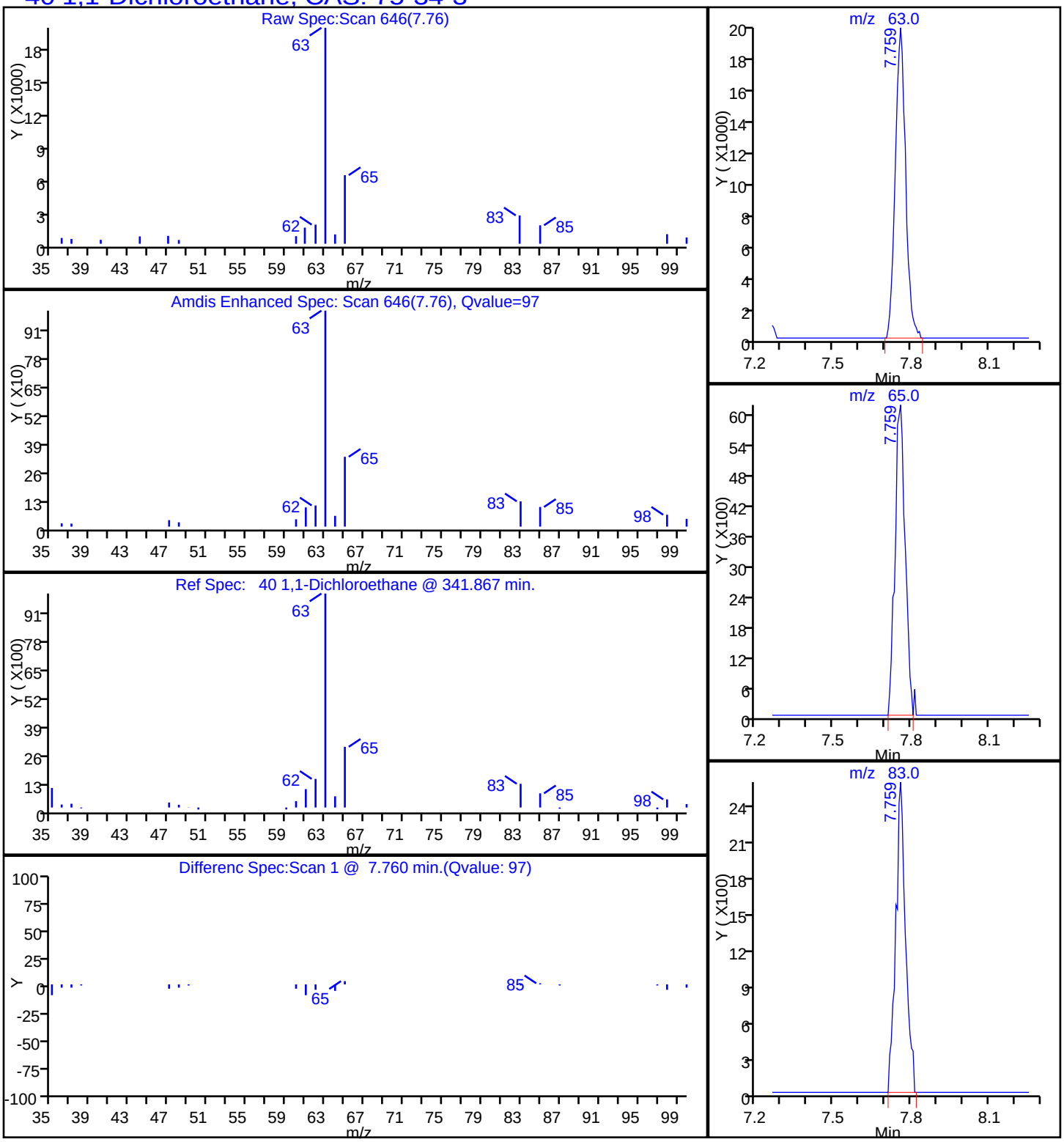
Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	0.0	0	0.00
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	27.6	110.21
$ 5 Toluene-d8 (Surr)	25.0	24.1	96.28
$ 6 4-Bromofluorobenzene (Surr)	25.0	25.4	101.56

Report Date: 14-Oct-2016 17:42:13 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1405.D				
Injection Date:	14-Oct-2016 16:48:30	Instrument ID:	HP5973P		
Lims ID:	480-107471-A-14	Lab Sample ID:	480-107471-14		
Client ID:	MW-2				
Operator ID:	RF	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

40 1,1-Dichloroethane, CAS: 75-34-3

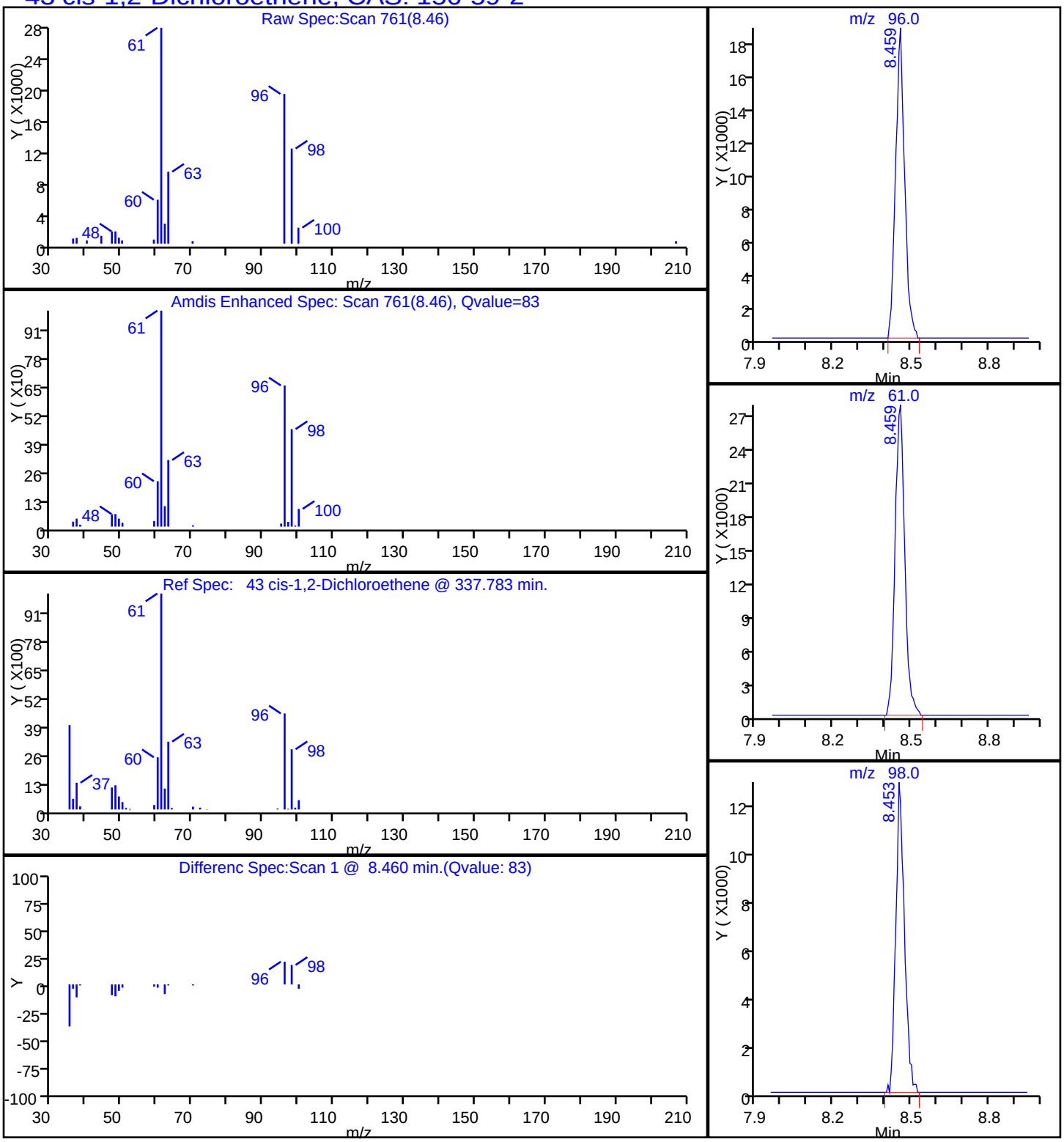


Report Date: 14-Oct-2016 17:42:13 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1405.D				
Injection Date:	14-Oct-2016 16:48:30	Instrument ID:	HP5973P		
Lims ID:	480-107471-A-14	Lab Sample ID:	480-107471-14		
Client ID:	MW-2				
Operator ID:	RF	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

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

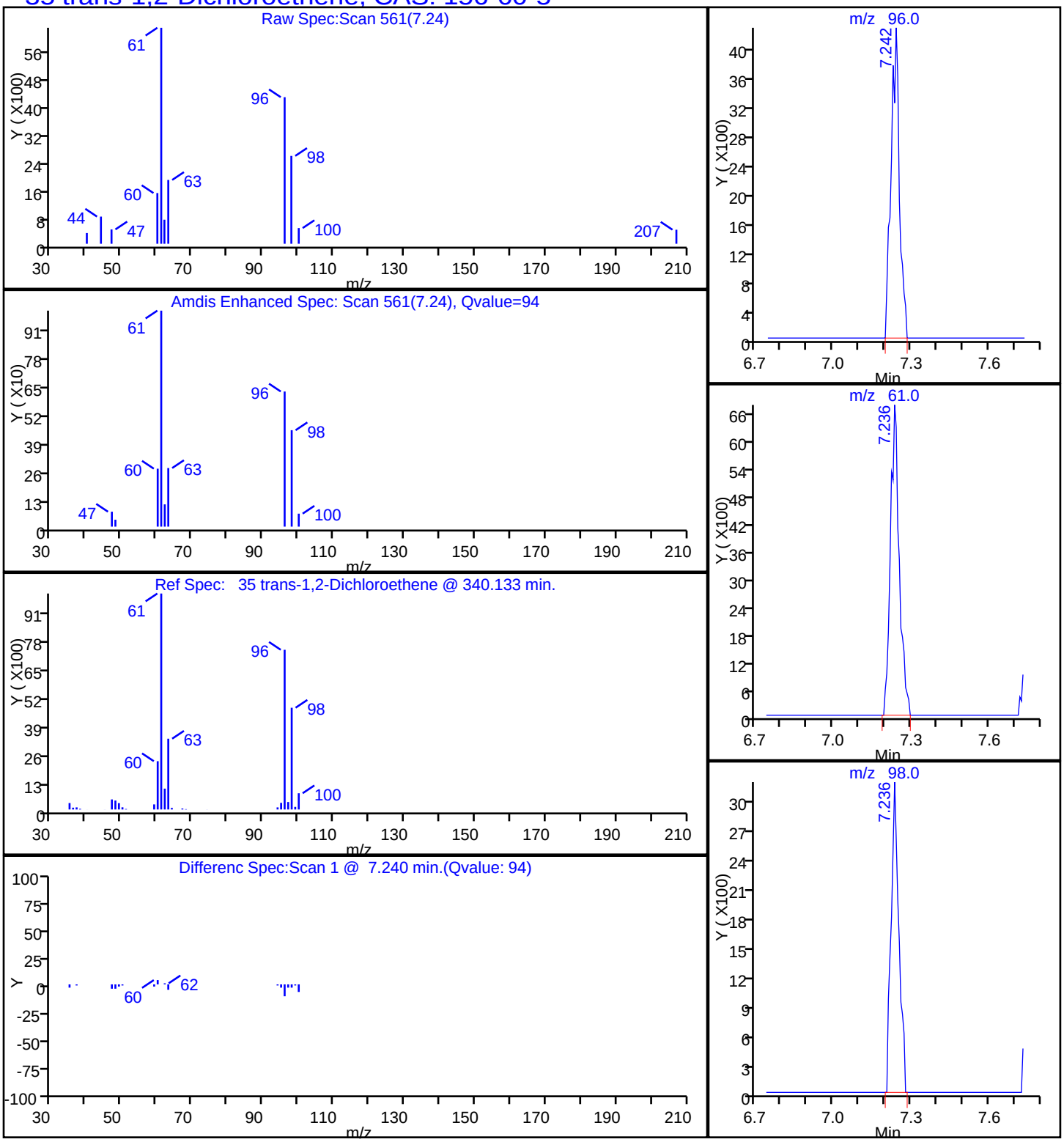


Report Date: 14-Oct-2016 17:42:13 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1405.D				
Injection Date:	14-Oct-2016 16:48:30	Instrument ID:	HP5973P		
Lims ID:	480-107471-A-14	Lab Sample ID:	480-107471-14		
Client ID:	MW-2				
Operator ID:	RF	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

35 trans-1,2-Dichloroethene, CAS: 156-60-5

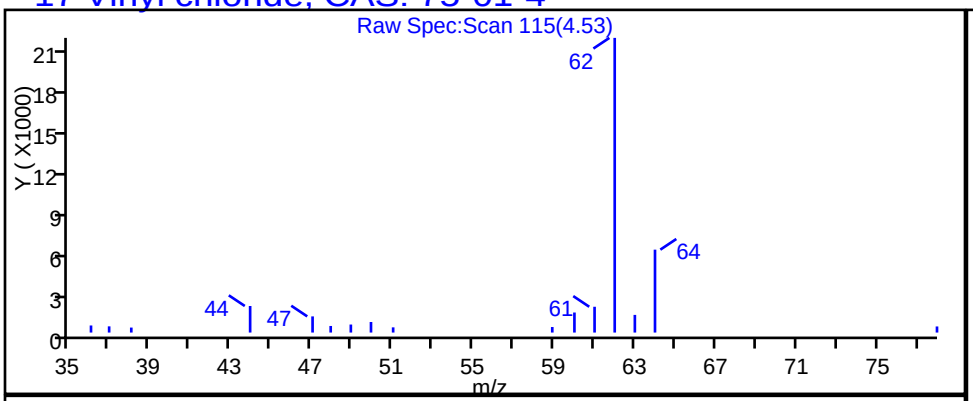


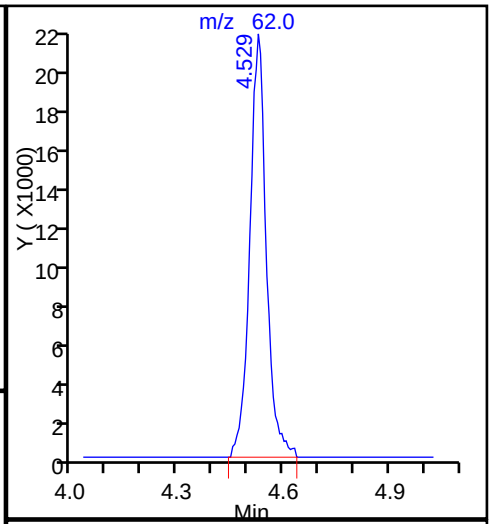
Report Date: 14-Oct-2016 17:42:13 Chrom Revision: 2.2 08-Sep-2016 14:45:52

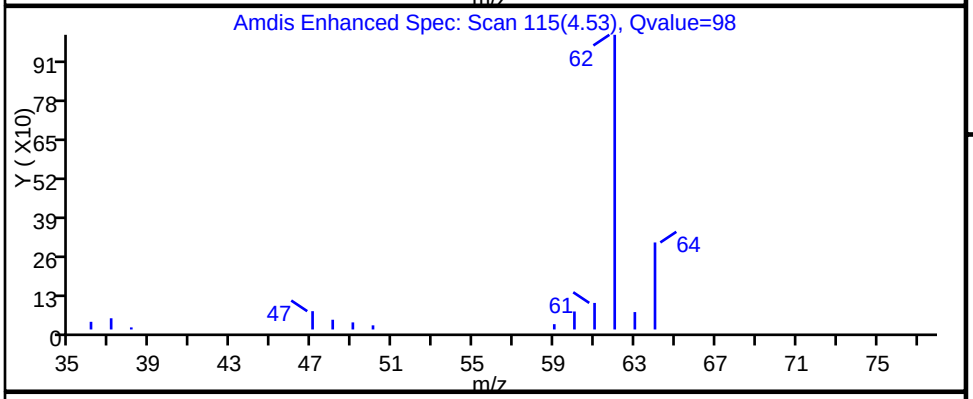
TestAmerica Buffalo

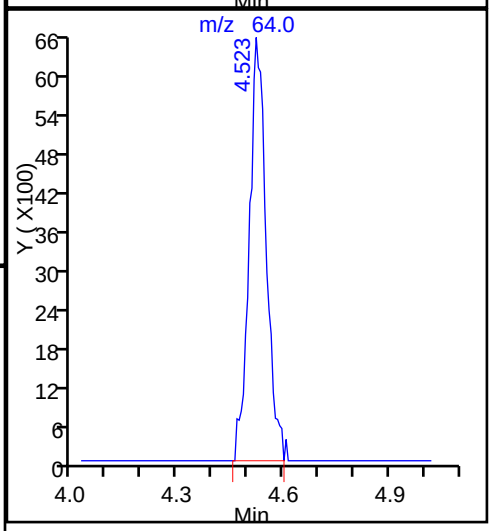
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1405.D				
Injection Date:	14-Oct-2016 16:48:30	Instrument ID:	HP5973P		
Lims ID:	480-107471-A-14	Lab Sample ID:	480-107471-14		
Client ID:	MW-2				
Operator ID:	RF	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

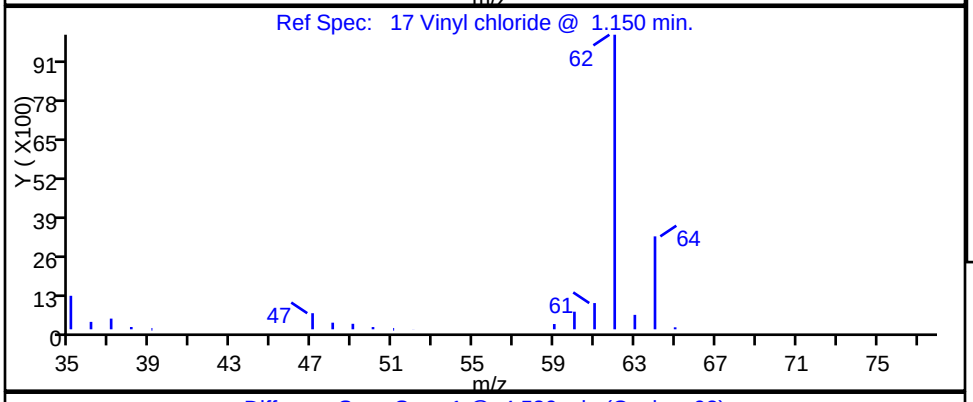
17 Vinyl chloride, CAS: 75-01-4

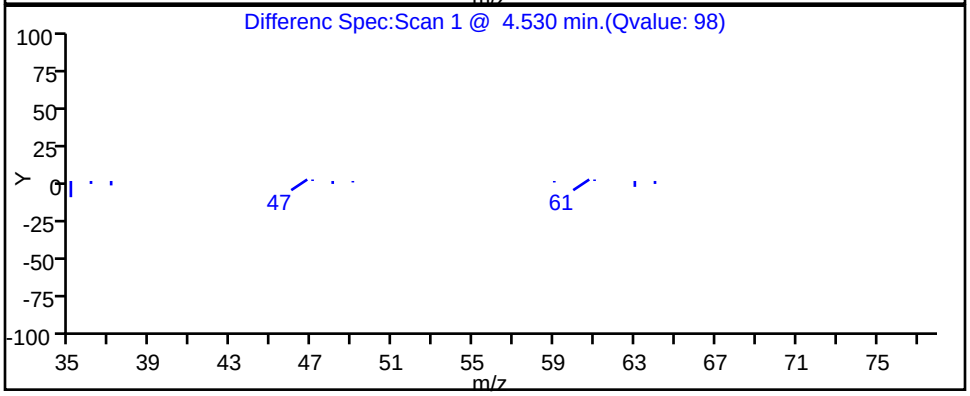












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: MW-4 | Lab Sample ID: 480-107471-15

Matrix: Water | Lab File ID: P1406.D

Analysis Method: 8260C | Date Collected: 10/10/2016 16:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/14/2016 17:15

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.: 325584 | 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	0.88	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	5.0		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.: 480-107471-1

SDG No.:

Client Sample ID: MW-4 | Lab Sample ID: 480-107471-15

Matrix: Water | Lab File ID: P1406.D

Analysis Method: 8260C | Date Collected: 10/10/2016 16:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/14/2016 17:15

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.: 325584 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
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	3.1		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		77-120
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
2037-26-5	Toluene-d8 (Surr)	97		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1406.D
Lims ID: 480-107471-A-15
Client ID: MW-4
Sample Type: Client
Inject. Date: 14-Oct-2016 17:15:30 ALS Bottle#: 18 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-107471-A-15
Misc. Info.: 480-0057262-020
Operator ID: RF Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Oct-2016 17:43:08 Calib Date: 15-Sep-2016 21:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: youngmans Date: 14-Oct-2016 17:43:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.827	9.821	0.006	98	96205	25.0	
* 2 Chlorobenzene-d5	82	13.763	13.764	-0.001	86	194826	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.750	16.751	-0.001	96	227450	25.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.456	9.456	0.000	0	80858	26.2	
$ 5 Toluene-d8 (Surr)	98	11.798	11.799	-0.001	93	419522	24.2	
$ 6 4-Bromofluorobenzene (Surr	174	15.278	15.278	0.000	89	146385	24.7	
10 Dichlorodifluoromethane	85		3.981				ND	
11 Chloromethane	50		4.316				ND	
17 Vinyl chloride	62	4.529	4.529	0.000	97	18674	3.08	
12 Bromomethane	94		5.082				ND	
13 Chloroethane	64		5.204				ND	
14 Trichlorofluoromethane	101		5.605				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.244				ND	
25 1,1-Dichloroethene	96		6.287				ND	
24 Acetone	43	6.335	6.335	0.012	63	4507	1.14	7
27 Carbon disulfide	76		6.664				ND	
30 Methyl acetate	43		6.700				ND	
31 Methylene Chloride	84		6.907				ND	
32 Methyl tert-butyl ether	73		7.163				ND	
35 trans-1,2-Dichloroethene	96		7.230				ND	
40 1,1-Dichloroethane	63	7.765	7.753	0.012	94	12529	0.8754	
44 2-Butanone (MEK)	43		8.398				ND	
43 cis-1,2-Dichloroethene	96	8.459	8.452	0.007	84	37299	5.02	
49 Chloroform	83		8.805				ND	
52 1,1,1-Trichloroethane	97		9.067				ND	
54 Cyclohexane	56		9.134				ND	
55 Carbon tetrachloride	117		9.268				ND	
57 Benzene	78		9.517				ND	
60 1,2-Dichloroethane	62		9.541				ND	
62 Trichloroethene	95		10.265				ND	
64 Methylcyclohexane	83		10.509				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
63 1,2-Dichloropropane	63		10.582				ND	
70 Dichlorobromomethane	83		10.904				ND	
73 cis-1,3-Dichloropropene	75		11.446				ND	
75 4-Methyl-2-pentanone (MIBK	43		11.555				ND	
76 Toluene	92		11.884				ND	
78 trans-1,3-Dichloropropene	75		12.145				ND	
79 1,1,2-Trichloroethane	83		12.431				ND	
80 Tetrachloroethene	166		12.632				ND	
83 2-Hexanone	43		12.638				ND	
81 Chlorodibromomethane	129		13.009				ND	
85 Ethylene Dibromide	107		13.210				ND	
87 Chlorobenzene	112		13.800				ND	
89 Ethylbenzene	91		13.867				ND	
90 m-Xylene & p-Xylene	106		14.007				ND	
93 o-Xylene	106		14.560				ND	
94 Styrene	104		14.573				ND	
92 Bromoform	173		14.931				ND	
95 Isopropylbenzene	105		14.998				ND	
97 1,1,2,2-Tetrachloroethane	83		15.424				ND	
110 1,3-Dichlorobenzene	146		16.677				ND	
111 1,4-Dichlorobenzene	146		16.781				ND	
116 1,2-Dichlorobenzene	146		17.268				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.241				ND	
119 1,2,4-Trichlorobenzene	180		19.318				ND	
S 126 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

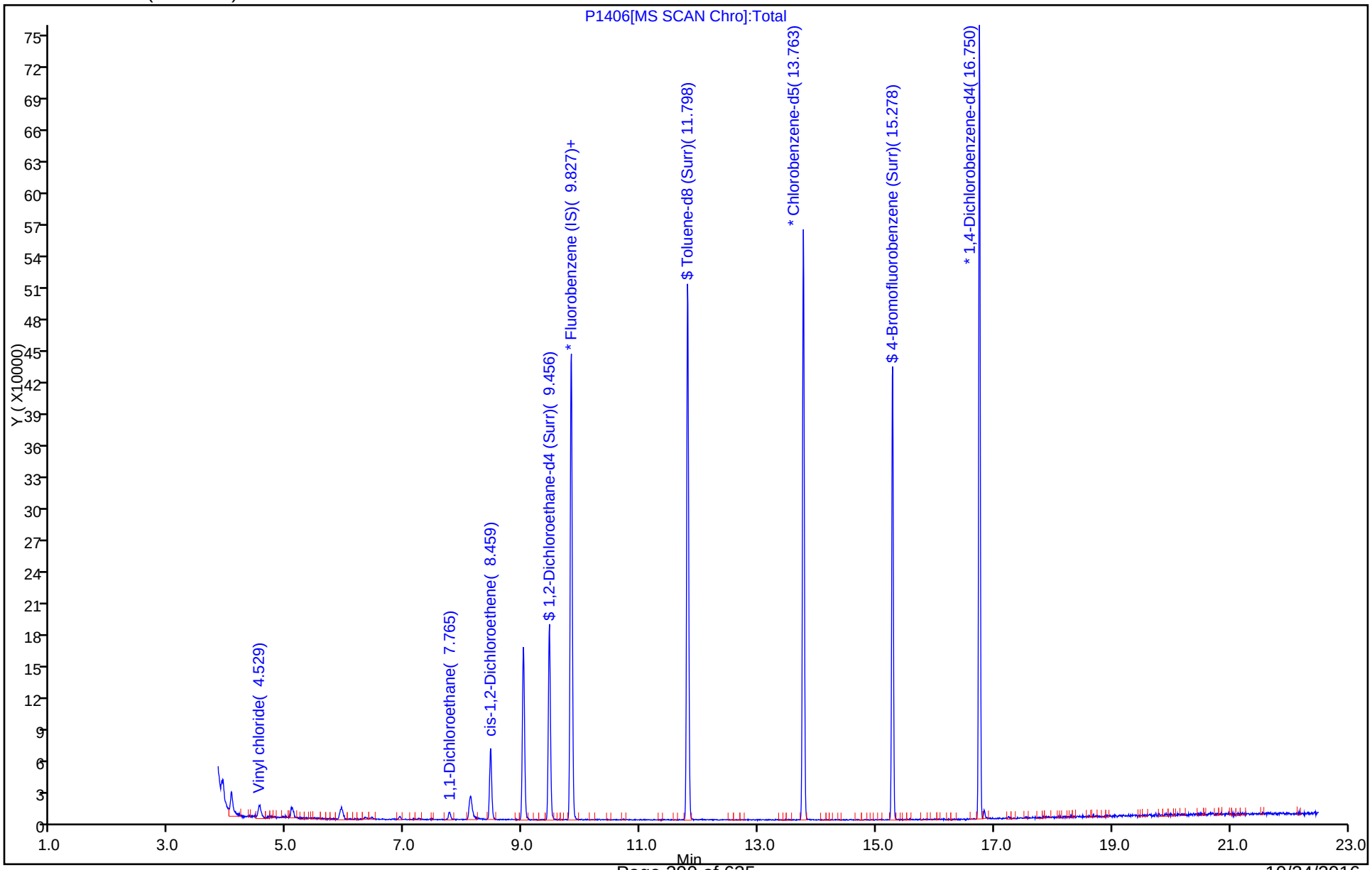
P 8260 IS_00173	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00197	Amount Added:	1.25	Units: uL	Run Reagent

Report Date: 14-Oct-2016 17:43:08 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1406.D				
Injection Date:	14-Oct-2016 17:15:30	Instrument ID:	HP5973P	Operator ID:	RF
Lims ID:	480-107471-A-15	Lab Sample ID:	480-107471-15	Worklist Smp#:	20
Client ID:	MW-4				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Recovery Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1406.D				
Lims ID:	480-107471-A-15				
Client ID:	MW-4				
Sample Type:	Client				
Inject. Date:	14-Oct-2016 17:15:30	ALS Bottle#:	18	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	480-107471-A-15				
Misc. Info.:	480-0057262-020				
Operator ID:	RF	Instrument ID:	HP5973P		

Method:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P-8260H2O.m		
Limit Group:	MV - 8260C ICAL		
Last Update:	14-Oct-2016 17:43:08	Calib Date:	15-Sep-2016 21:21:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D		

Column 1 :	ZB-624 (0.25 mm)	Det: MS SCAN
Process Host:	XAWRK008	

First Level Reviewer: youngmans Date: 14-Oct-2016 17:43:08

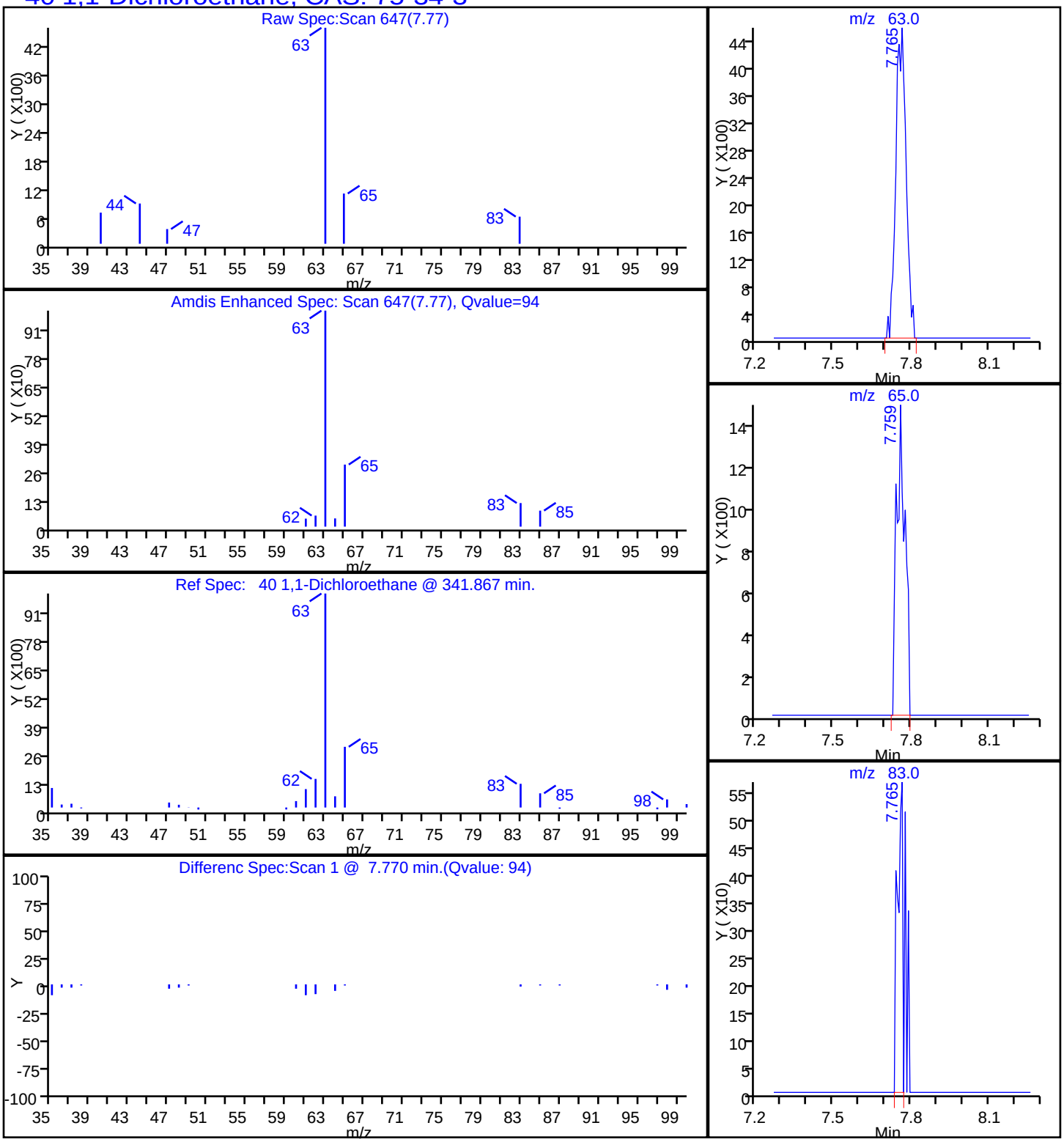
Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	0.0	0	0.00
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	26.2	104.89
$ 5 Toluene-d8 (Surr)	25.0	24.2	96.99
$ 6 4-Bromofluorobenzene (Surr)	25.0	24.7	98.79

Report Date: 14-Oct-2016 17:43:08 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1406.D				
Injection Date:	14-Oct-2016 17:15:30	Instrument ID:	HP5973P		
Lims ID:	480-107471-A-15	Lab Sample ID:	480-107471-15		
Client ID:	MW-4				
Operator ID:	RF	ALS Bottle#:	18	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

40 1,1-Dichloroethane, CAS: 75-34-3

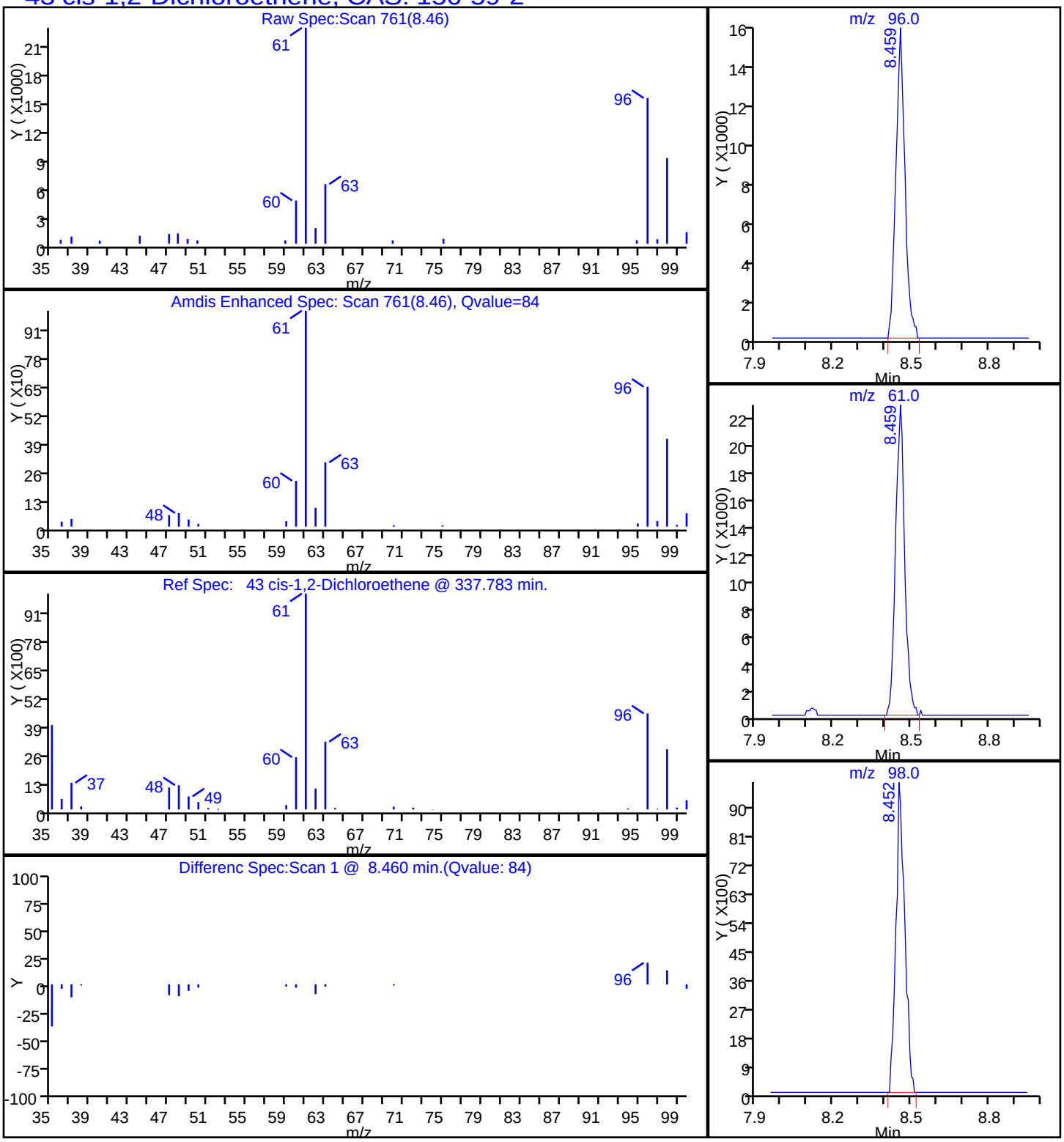


Report Date: 14-Oct-2016 17:43:08 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1406.D				
Injection Date:	14-Oct-2016 17:15:30	Instrument ID:	HP5973P		
Lims ID:	480-107471-A-15	Lab Sample ID:	480-107471-15		
Client ID:	MW-4				
Operator ID:	RF	ALS Bottle#:	18	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

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

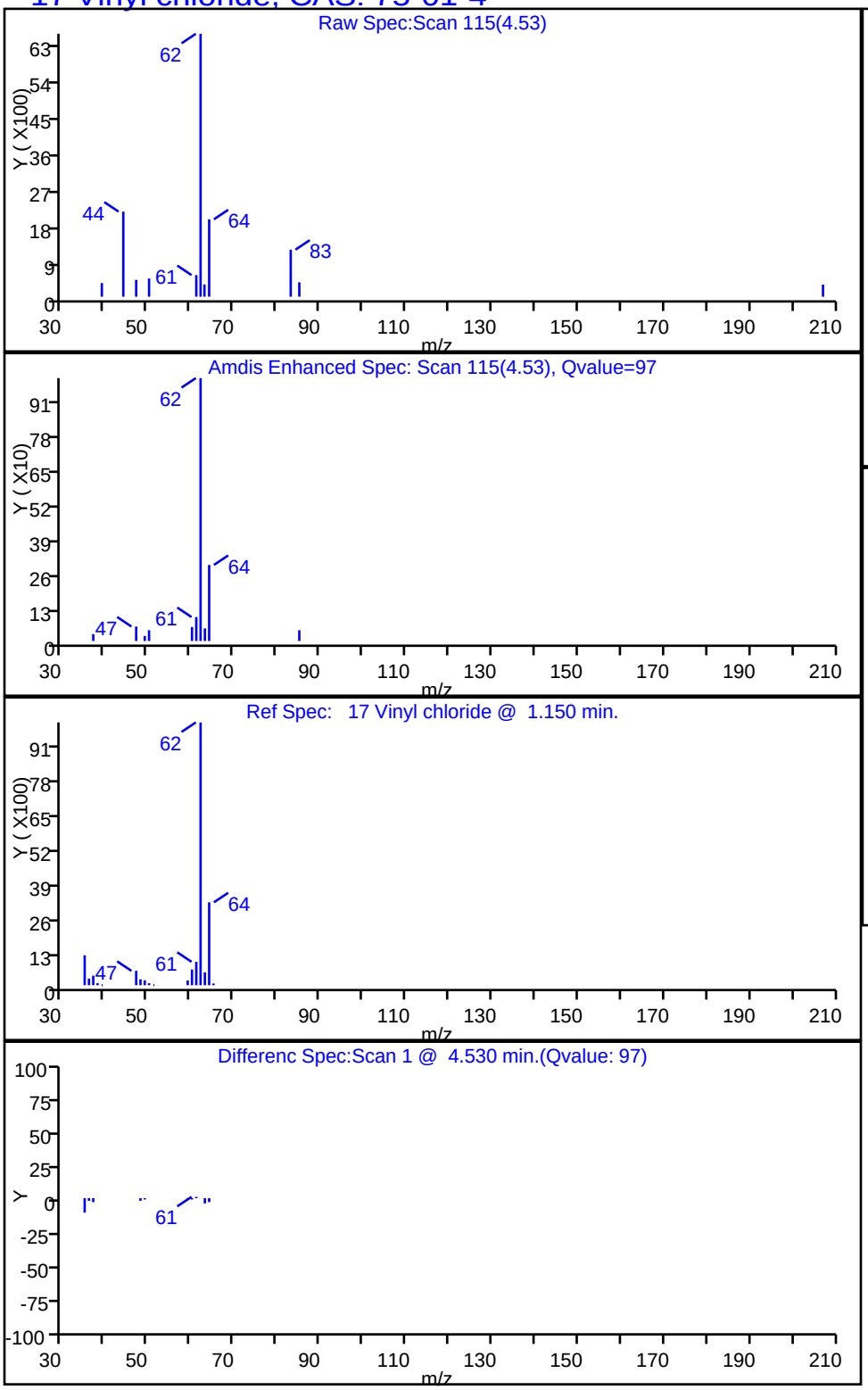


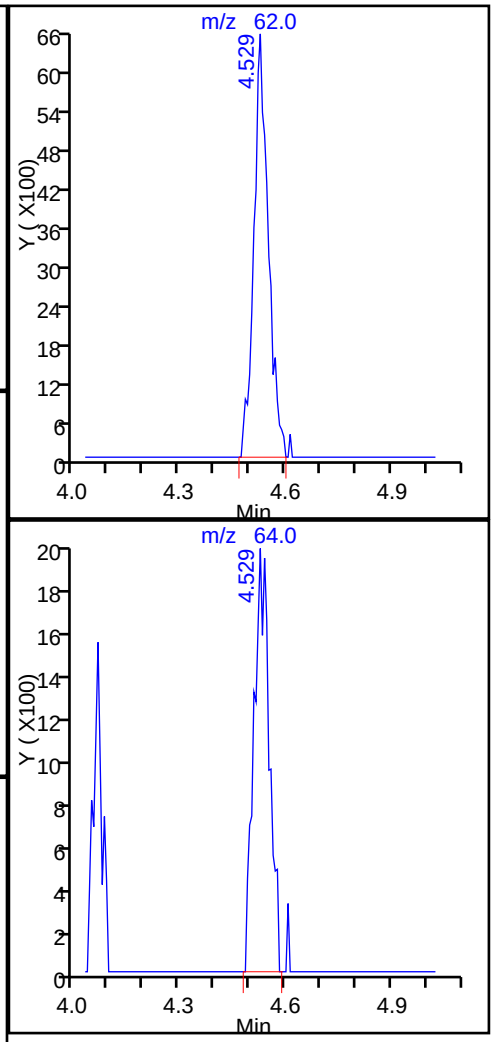
Report Date: 14-Oct-2016 17:43:08 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1406.D				
Injection Date:	14-Oct-2016 17:15:30	Instrument ID:	HP5973P		
Lims ID:	480-107471-A-15	Lab Sample ID:	480-107471-15		
Client ID:	MW-4				
Operator ID:	RF	ALS Bottle#:	18	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

17 Vinyl chloride, CAS: 75-01-4





FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: MW-10 | Lab Sample ID: 480-107471-16

Matrix: Water | Lab File ID: N8926.D

Analysis Method: 8260C | Date Collected: 10/11/2016 08:50

Sample wt/vol: 5(mL) | Date Analyzed: 10/16/2016 00:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 325847 | 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	3.0		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	31		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.: 480-107471-1

SDG No.:

Client Sample ID: MW-10 | Lab Sample ID: 480-107471-16

Matrix: Water | Lab File ID: N8926.D

Analysis Method: 8260C | Date Collected: 10/11/2016 08:50

Sample wt/vol: 5(mL) | Date Analyzed: 10/16/2016 00:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 325847 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
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	2.8		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	0.87	J	1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	23		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)	117		77-120
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8926.D
Lims ID: 480-107471-A-16
Client ID: MW-10
Sample Type: Client
Inject. Date: 16-Oct-2016 00:03:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-107471-a-16
Misc. Info.: 480-0057315-016
Operator ID: NEA Instrument ID: HP5973N

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Oct-2016 16:57:29 Calib Date: 06-Oct-2016 06:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK014

First Level Reviewer: gentilej Date: 16-Oct-2016 16:59:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.534	5.534	0.000	99	92532	25.0	
* 2 Chlorobenzene-d5	117	8.527	8.527	0.000	85	387205	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.906	10.906	0.000	94	221869	25.0	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.242	5.242	0.000	0	167365	29.4	
$ 6 Toluene-d8 (Surr)	98	7.043	7.043	0.000	93	476213	25.2	
$ 7 4-Bromofluorobenzene (Surr	174	9.774	9.774	0.000	94	169692	24.6	
11 Dichlorodifluoromethane	85		1.379				ND	
13 Chloromethane	50		1.525				ND	
14 Vinyl chloride	62	1.640	1.640	0.000	99	130684	23.3	
15 Bromomethane	94		1.926				ND	
16 Chloroethane	64		2.042				ND	
18 Trichlorofluoromethane	101		2.285				ND	
22 1,1-Dichloroethene	96		2.778				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.778				ND	
23 Acetone	43		2.869				ND	
25 Carbon disulfide	76		2.973				ND	
28 Methyl acetate	43		3.174				ND	
30 Methylene Chloride	84		3.271				ND	
32 Methyl tert-butyl ether	73		3.502				ND	
33 trans-1,2-Dichloroethene	96	3.520	3.514	0.006	96	16003	2.83	
36 1,1-Dichloroethane	63	3.928	3.922	0.006	96	28659	3.00	
43 cis-1,2-Dichloroethene	96	4.475	4.469	0.006	83	199284	31.0	
44 2-Butanone (MEK)	43		4.494				ND	
50 Chloroform	83		4.780				ND	
51 1,1,1-Trichloroethane	97		4.907				ND	
52 Cyclohexane	56		4.938				ND	
53 Carbon tetrachloride	117		5.059				ND	
55 Benzene	78		5.260				ND	
57 1,2-Dichloroethane	62		5.309				ND	
60 Trichloroethene	95	5.875	5.875	0.000	88	4509	0.8741	
62 Methylcyclohexane	83		6.015				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
63 1,2-Dichloropropane	63		6.100				ND	
67 Dichlorobromomethane	83		6.386				ND	
71 cis-1,3-Dichloropropene	75		6.805				ND	
72 4-Methyl-2-pentanone (MIBK	58		6.945				ND	
73 Toluene	92		7.110				ND	
75 trans-1,3-Dichloropropene	75		7.371				ND	
78 1,1,2-Trichloroethane	83		7.554				ND	
79 Tetrachloroethene	166		7.651				ND	
82 2-Hexanone	43		7.785				ND	
83 Chlorodibromomethane	129		7.955				ND	
84 Ethylene Dibromide	107		8.065				ND	
85 Chlorobenzene	112		8.557				ND	
88 Ethylbenzene	91		8.655				ND	
90 m-Xylene & p-Xylene	106		8.776				ND	
91 o-Xylene	106		9.202				ND	
92 Styrene	104		9.227				ND	
93 Bromoform	173		9.458				ND	
95 Isopropylbenzene	105		9.586				ND	
98 1,1,2,2-Tetrachloroethane	83		9.957				ND	
110 1,3-Dichlorobenzene	146		10.845				ND	
113 1,4-Dichlorobenzene	146		10.930				ND	
116 1,2-Dichlorobenzene	146		11.277				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.995				ND	
119 1,2,4-Trichlorobenzene	180		12.688				ND	
S 126 Xylenes, Total	1		30.000				ND	

Reagents:

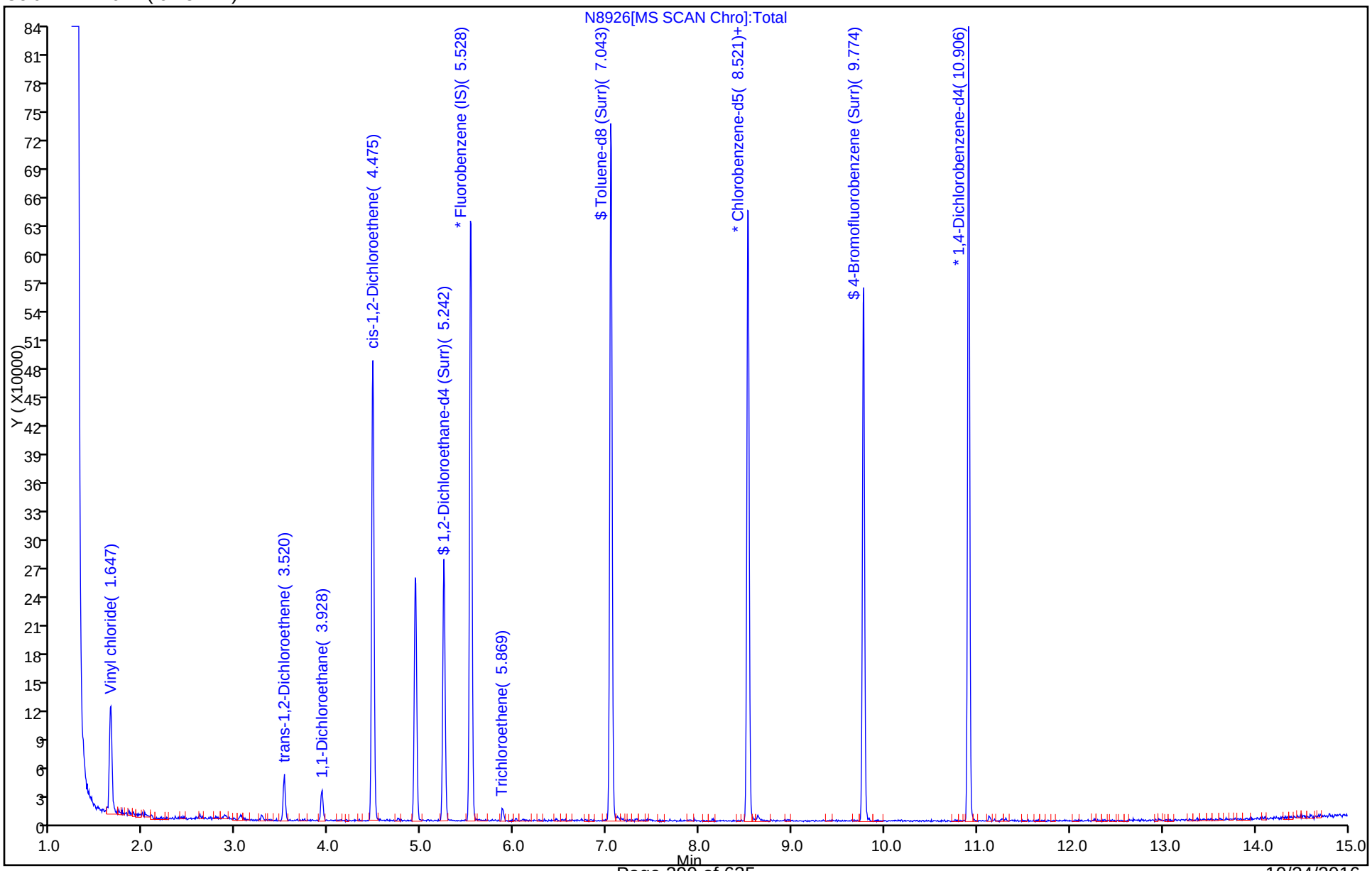
N_8260_Surr_00211	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00038	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 16-Oct-2016 16:59:49 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8926.D				
Injection Date:	16-Oct-2016 00:03:30	Instrument ID:	HP5973N	Operator ID:	NEA
Lims ID:	480-107471-A-16	Lab Sample ID:	480-107471-16	Worklist Smp#:	16
Client ID:	MW-10				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Recovery Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8926.D				
Lims ID:	480-107471-A-16				
Client ID:	MW-10				
Sample Type:	Client				
Inject. Date:	16-Oct-2016 00:03:30	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	480-107471-a-16				
Misc. Info.:	480-0057315-016				
Operator ID:	NEA	Instrument ID:	HP5973N		

Method:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N-8260.m		
Limit Group:	MV - 8260C ICAL		
Last Update:	16-Oct-2016 16:57:29	Calib Date:	06-Oct-2016 06:56:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D		

Column 1 :	ZB-624 (0.25 mm)	Det: MS SCAN
Process Host:	XAWRK014	

First Level Reviewer: gentilej Date: 16-Oct-2016 16:59:49

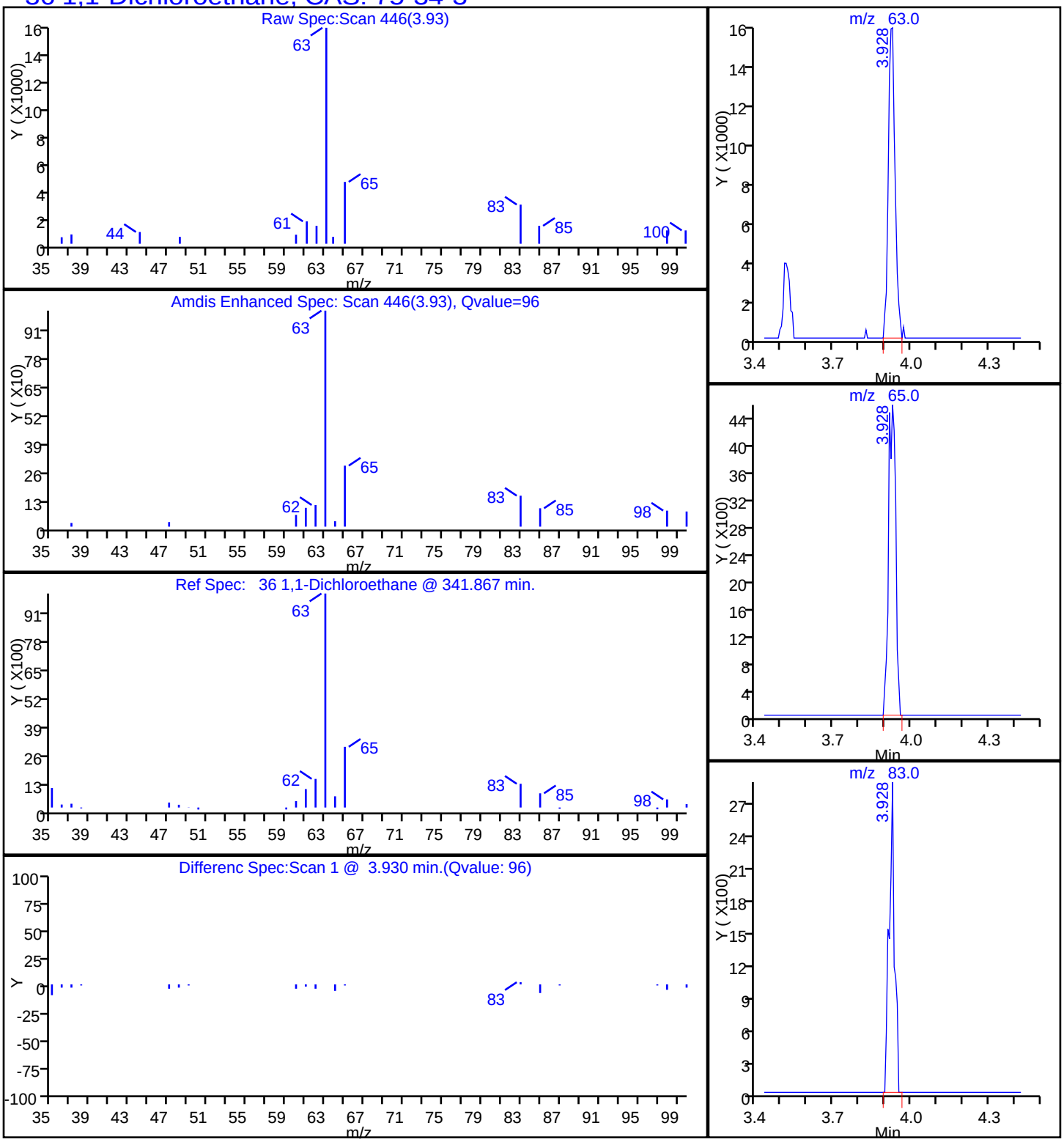
Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	0.0	0	0.00
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	29.4	117.43
$ 6 Toluene-d8 (Surr)	25.0	25.2	100.92
$ 7 4-Bromofluorobenzene (Surr)	25.0	24.6	98.55

Report Date: 16-Oct-2016 16:59:49 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8926.D				
Injection Date:	16-Oct-2016 00:03:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-A-16	Lab Sample ID:	480-107471-16		
Client ID:	MW-10				
Operator ID:	NEA	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

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

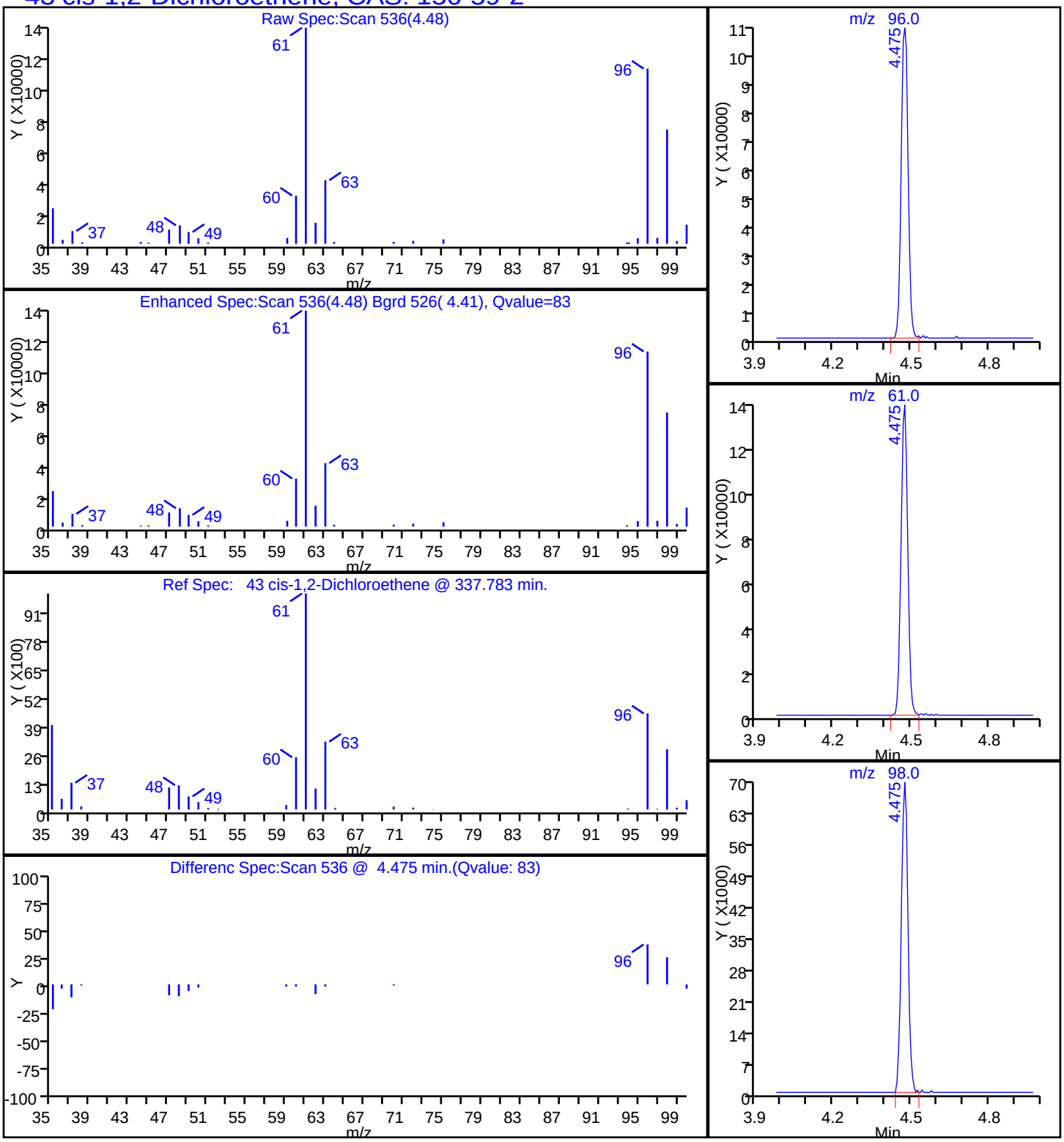


Report Date: 16-Oct-2016 16:59:49 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8926.D				
Injection Date:	16-Oct-2016 00:03:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-A-16	Lab Sample ID:	480-107471-16		
Client ID:	MW-10				
Operator ID:	NEA	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

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

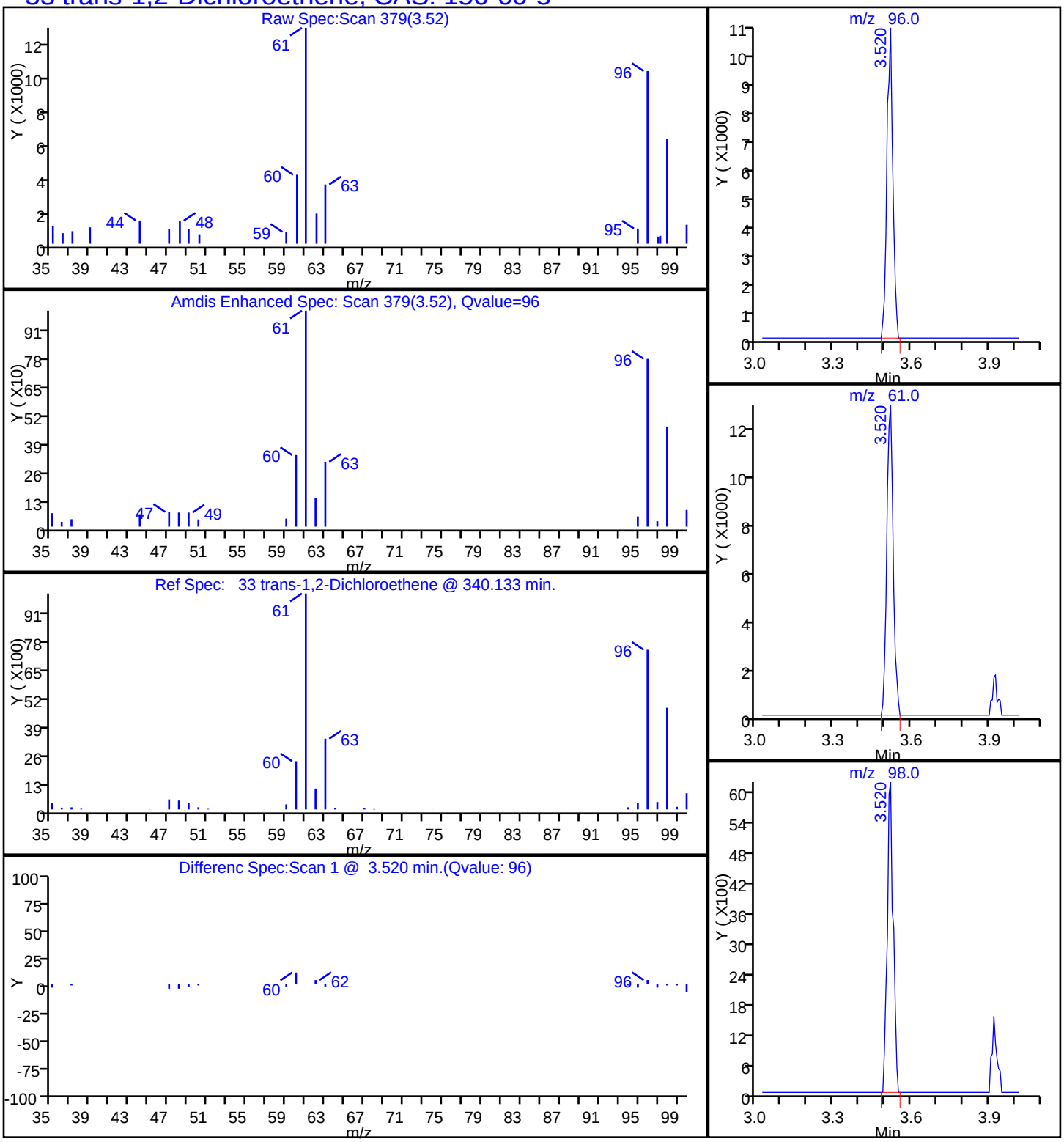


Report Date: 16-Oct-2016 16:59:49 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8926.D				
Injection Date:	16-Oct-2016 00:03:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-A-16	Lab Sample ID:	480-107471-16		
Client ID:	MW-10				
Operator ID:	NEA	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

33 trans-1,2-Dichloroethene, CAS: 156-60-5

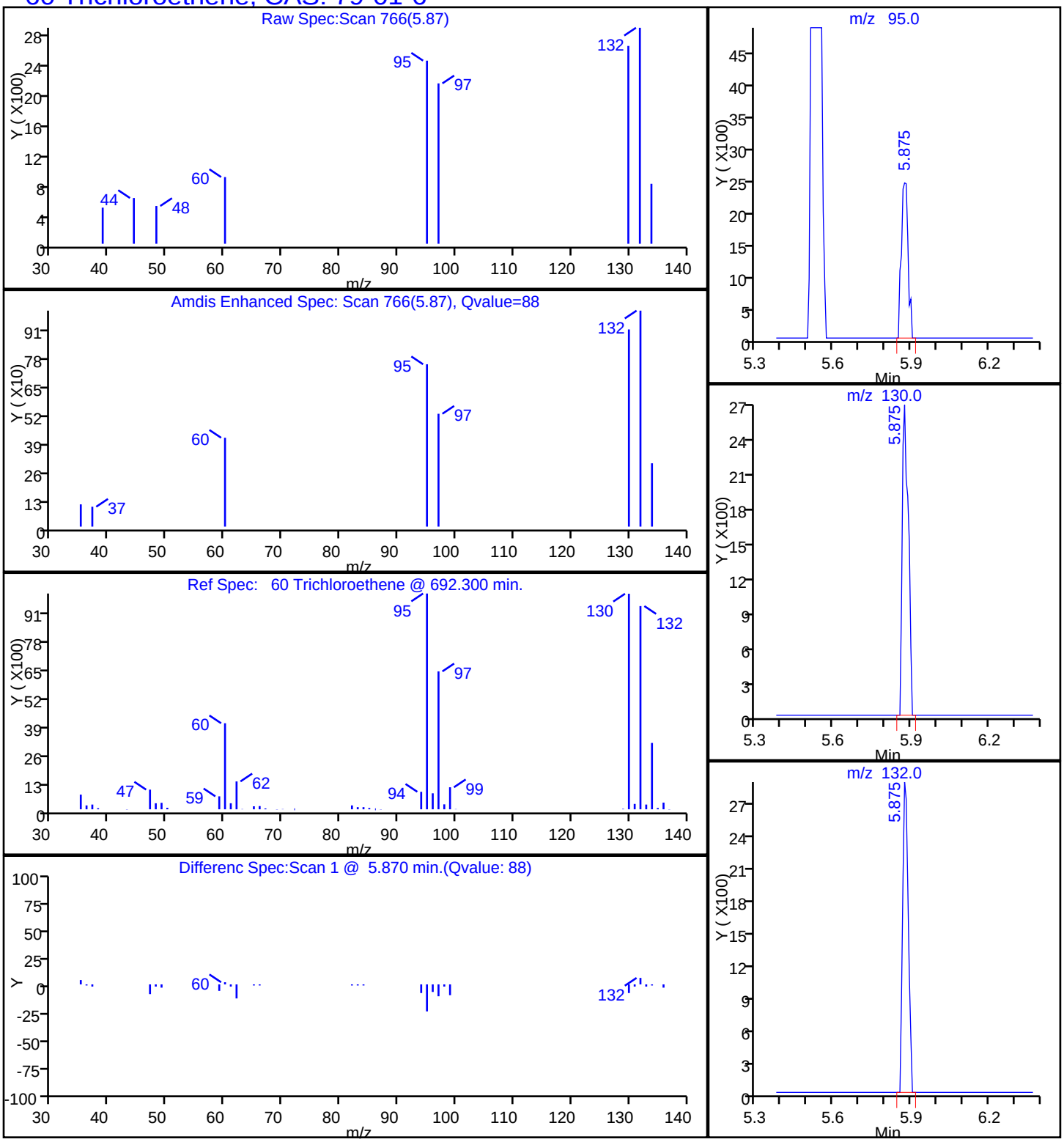


Report Date: 16-Oct-2016 16:59:49 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8926.D				
Injection Date:	16-Oct-2016 00:03:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-A-16	Lab Sample ID:	480-107471-16		
Client ID:	MW-10				
Operator ID:	NEA	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

60 Trichloroethene, CAS: 79-01-6

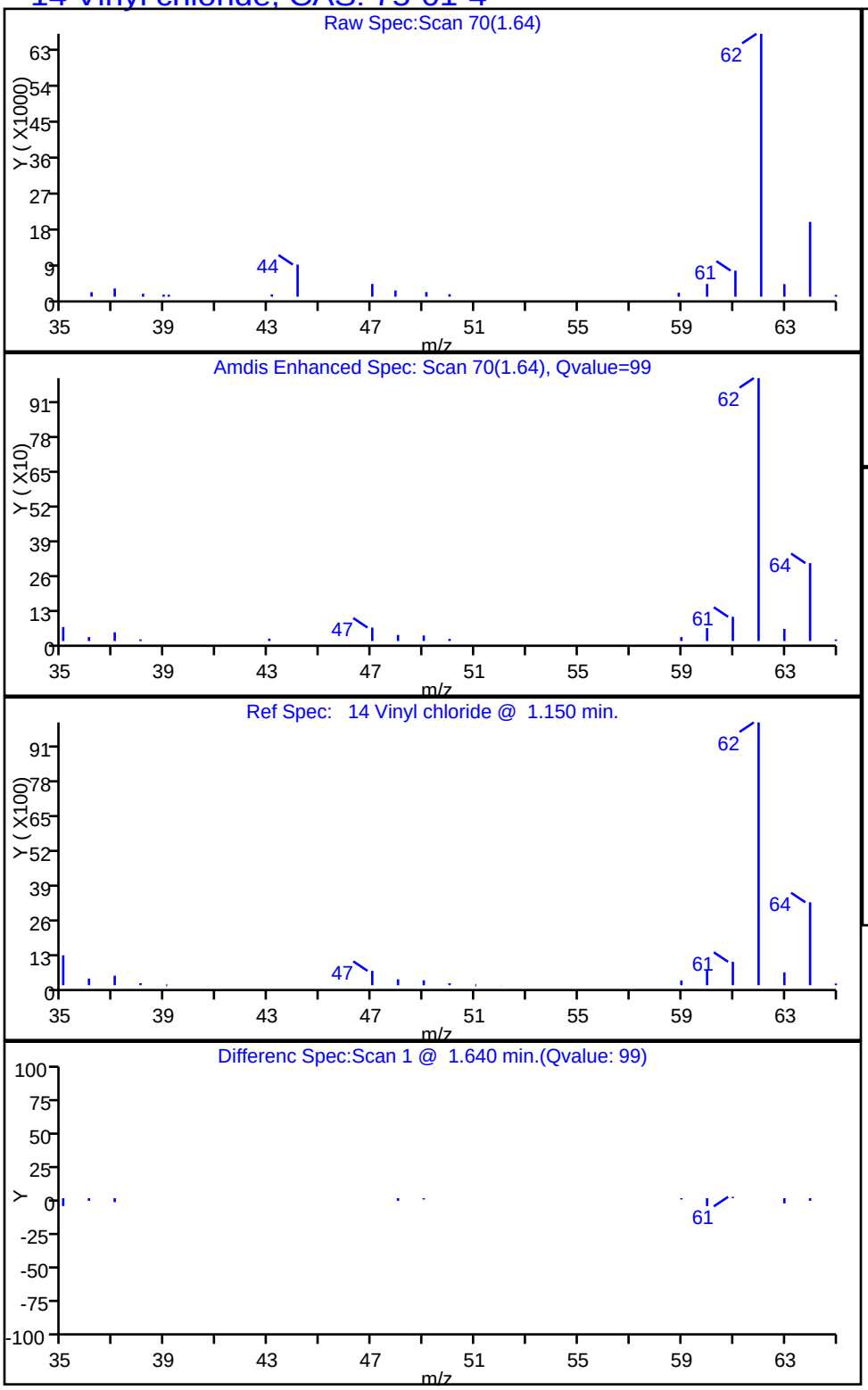


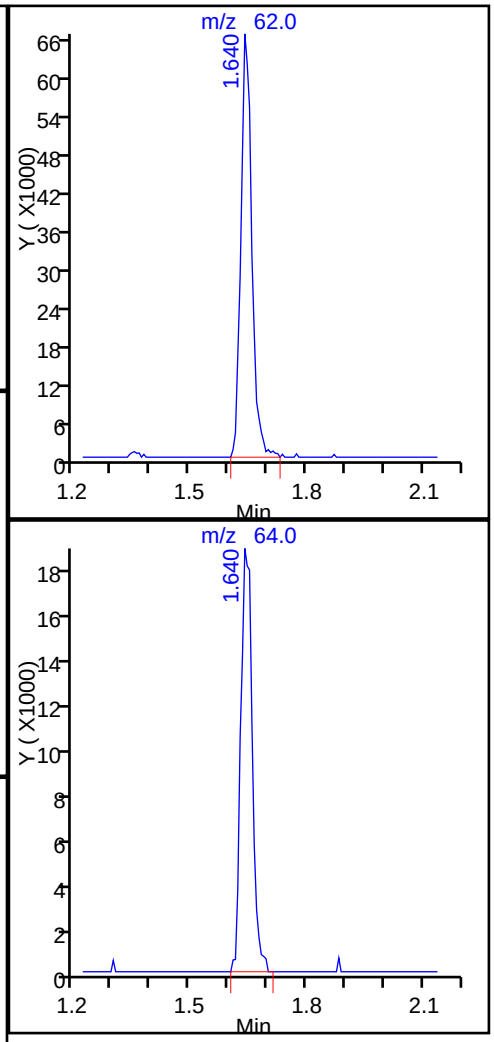
Report Date: 16-Oct-2016 16:59:49 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8926.D				
Injection Date:	16-Oct-2016 00:03:30	Instrument ID:	HP5973N		
Lims ID:	480-107471-A-16	Lab Sample ID:	480-107471-16		
Client ID:	MW-10				
Operator ID:	NEA	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

14 Vinyl chloride, CAS: 75-01-4





FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1
SDG No.:
Client Sample ID: MW-1-S/D | Lab Sample ID: 480-107471-17
Matrix: Water | Lab File ID: P1407.D
Analysis Method: 8260C | Date Collected: 10/10/2016 16:50
Sample wt/vol: 5(mL) | Date Analyzed: 10/14/2016 17:42
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.: 325584 | 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	3.5		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	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.: 480-107471-1

SDG No.:

Client Sample ID: MW-1-S/D | Lab Sample ID: 480-107471-17

Matrix: Water | Lab File ID: P1407.D

Analysis Method: 8260C | Date Collected: 10/10/2016 16:50

Sample wt/vol: 5(mL) | Date Analyzed: 10/14/2016 17:42

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.: 325584 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
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	33		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	14		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)	107		77-120
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1407.D
Lims ID: 480-107471-A-17
Client ID: MW-1-S/D
Sample Type: Client
Inject. Date: 14-Oct-2016 17:42:30 ALS Bottle#: 19 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-107471-A-17
Misc. Info.: 480-0057262-021
Operator ID: RF Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Oct-2016 18:10:46 Calib Date: 15-Sep-2016 21:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: youngmans Date: 14-Oct-2016 18:10:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.828	9.821	0.007	98	92817	25.0	
* 2 Chlorobenzene-d5	82	13.764	13.764	0.000	86	194660	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.751	16.751	0.000	96	222222	25.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.456	9.456	0.000	0	79522	26.7	
$ 5 Toluene-d8 (Surr)	98	11.799	11.799	0.000	93	413742	23.9	
$ 6 4-Bromofluorobenzene (Surr	174	15.278	15.278	0.000	89	143505	24.2	
10 Dichlorodifluoromethane	85		3.981				ND	
11 Chloromethane	50		4.316				ND	
17 Vinyl chloride	62	4.523	4.523	-0.006	1	2774	0.4736	
12 Bromomethane	94		5.082				ND	
13 Chloroethane	64		5.204				ND	
14 Trichlorofluoromethane	101		5.605				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.244				ND	
25 1,1-Dichloroethene	96		6.287				ND	
24 Acetone	43		6.323				ND	
27 Carbon disulfide	76		6.664				ND	
30 Methyl acetate	43		6.700				ND	
31 Methylene Chloride	84		6.907				ND	
32 Methyl tert-butyl ether	73		7.163				ND	
35 trans-1,2-Dichloroethene	96	7.236	7.230	0.006	88	3397	0.5190	
40 1,1-Dichloroethane	63	7.759	7.753	0.006	97	48428	3.51	
44 2-Butanone (MEK)	43		8.398				ND	
43 cis-1,2-Dichloroethene	96	8.459	8.452	0.007	84	178867	24.9	
49 Chloroform	83		8.805				ND	
52 1,1,1-Trichloroethane	97		9.067				ND	
54 Cyclohexane	56		9.134				ND	
55 Carbon tetrachloride	117		9.268				ND	
57 Benzene	78		9.517				ND	
60 1,2-Dichloroethane	62		9.541				ND	
62 Trichloroethene	95	10.278	10.265	0.013	93	98628	14.4	
64 Methylcyclohexane	83		10.509				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
63 1,2-Dichloropropane	63		10.582				ND	
70 Dichlorobromomethane	83		10.904				ND	
73 cis-1,3-Dichloropropene	75		11.446				ND	
75 4-Methyl-2-pentanone (MIBK	43		11.555				ND	
76 Toluene	92		11.884				ND	
78 trans-1,3-Dichloropropene	75		12.145				ND	
79 1,1,2-Trichloroethane	83		12.431				ND	
80 Tetrachloroethene	166	12.638	12.632	0.006	94	244854	33.3	
83 2-Hexanone	43		12.638				ND	
81 Chlorodibromomethane	129		13.009				ND	
85 Ethylene Dibromide	107		13.210				ND	
87 Chlorobenzene	112		13.800				ND	
89 Ethylbenzene	91		13.867				ND	
90 m-Xylene & p-Xylene	106		14.007				ND	
93 o-Xylene	106		14.560				ND	
94 Styrene	104		14.573				ND	
92 Bromoform	173		14.931				ND	
95 Isopropylbenzene	105		14.998				ND	
97 1,1,2,2-Tetrachloroethane	83		15.424				ND	
110 1,3-Dichlorobenzene	146		16.677				ND	
111 1,4-Dichlorobenzene	146		16.781				ND	
116 1,2-Dichlorobenzene	146		17.268				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.241				ND	
119 1,2,4-Trichlorobenzene	180		19.318				ND	
S 126 Xylenes, Total	1		30.000				ND	

Reagents:

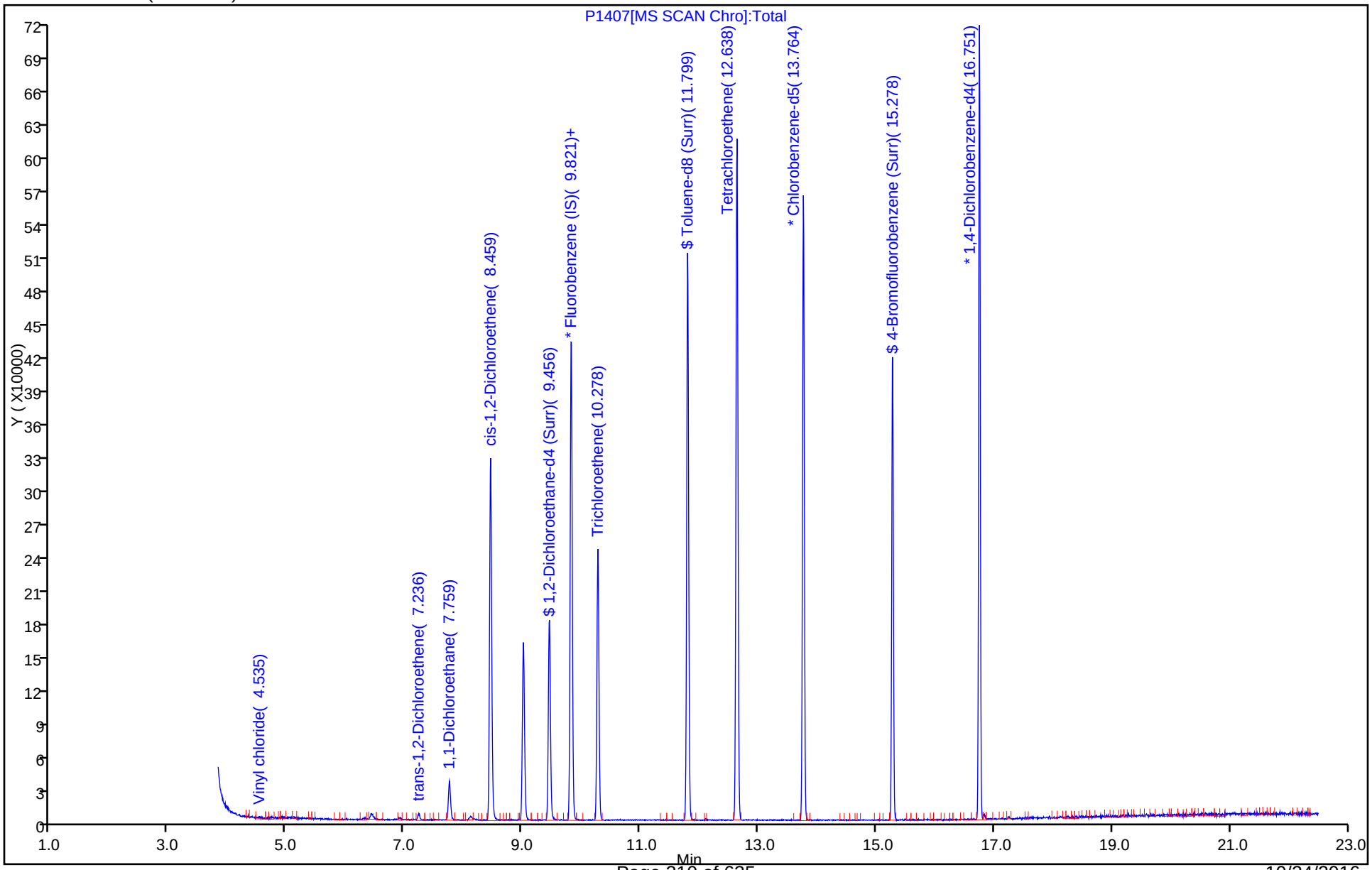
P 8260 IS_00173	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00197	Amount Added: 1.25	Units: uL	Run Reagent

Report Date: 14-Oct-2016 18:10:47 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1407.D				
Injection Date:	14-Oct-2016 17:42:30	Instrument ID:	HP5973P	Operator ID:	RF
Lims ID:	480-107471-A-17	Lab Sample ID:	480-107471-17	Worklist Smp#:	21
Client ID:	MW-1-S/D				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Recovery Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1407.D				
Lims ID:	480-107471-A-17				
Client ID:	MW-1-S/D				
Sample Type:	Client				
Inject. Date:	14-Oct-2016 17:42:30	ALS Bottle#:	19	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	480-107471-A-17				
Misc. Info.:	480-0057262-021				
Operator ID:	RF	Instrument ID:	HP5973P		

Method:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P-8260H2O.m		
Limit Group:	MV - 8260C ICAL		
Last Update:	14-Oct-2016 18:10:46	Calib Date:	15-Sep-2016 21:21:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D		

Column 1 :	ZB-624 (0.25 mm)	Det: MS SCAN
Process Host:	XAWRK008	

First Level Reviewer: youngmans Date: 14-Oct-2016 18:10:46

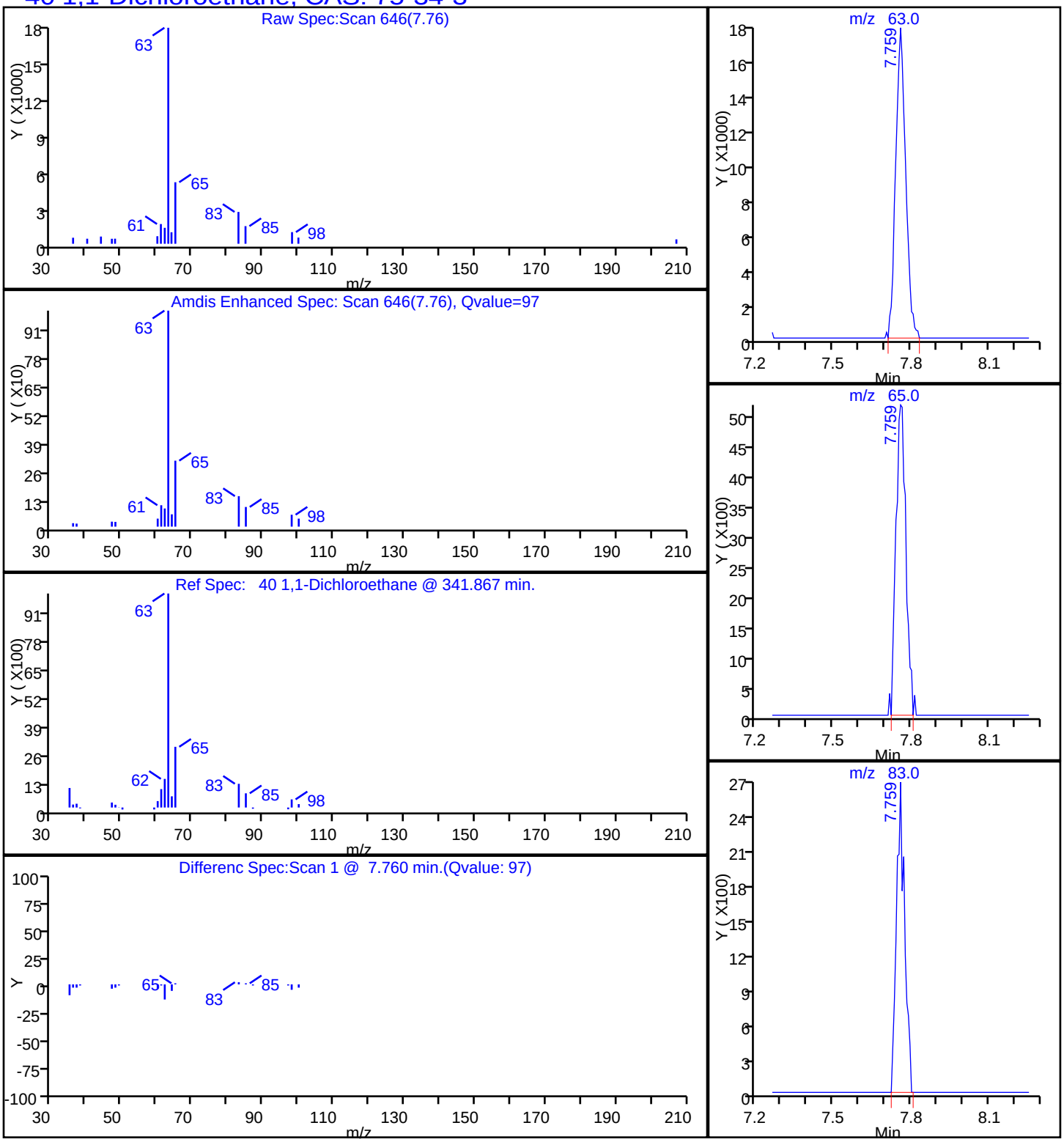
Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	0.0	0	0.00
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	26.7	106.92
$ 5 Toluene-d8 (Surr)	25.0	23.9	95.73
$ 6 4-Bromofluorobenzene (Surr)	25.0	24.2	96.93

Report Date: 14-Oct-2016 18:10:47 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1407.D				
Injection Date:	14-Oct-2016 17:42:30	Instrument ID:	HP5973P		
Lims ID:	480-107471-A-17	Lab Sample ID:	480-107471-17		
Client ID:	MW-1-S/D				
Operator ID:	RF	ALS Bottle#:	19	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

40 1,1-Dichloroethane, CAS: 75-34-3

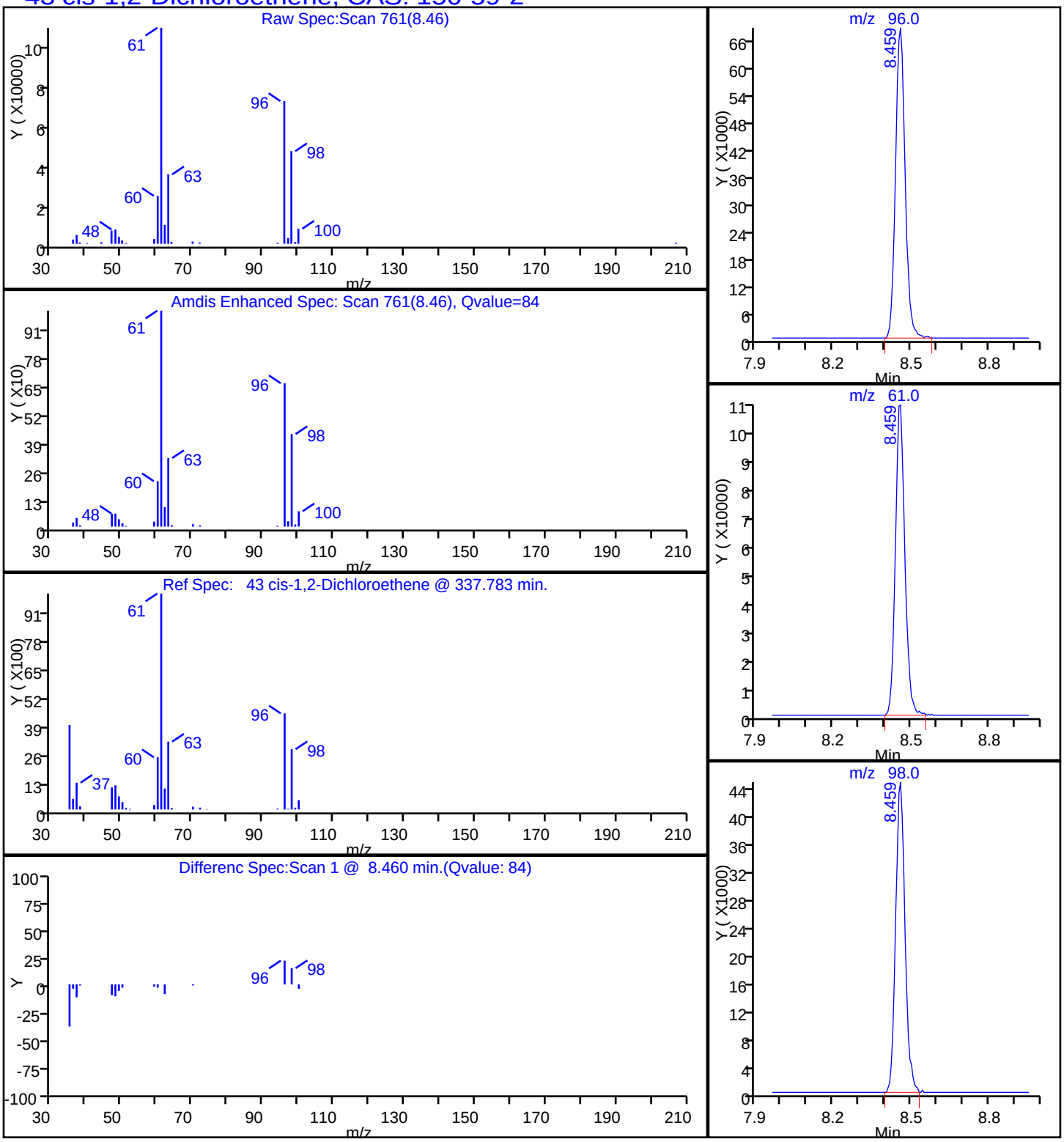


Report Date: 14-Oct-2016 18:10:47 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1407.D				
Injection Date:	14-Oct-2016 17:42:30	Instrument ID:	HP5973P		
Lims ID:	480-107471-A-17	Lab Sample ID:	480-107471-17		
Client ID:	MW-1-S/D				
Operator ID:	RF	ALS Bottle#:	19	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

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

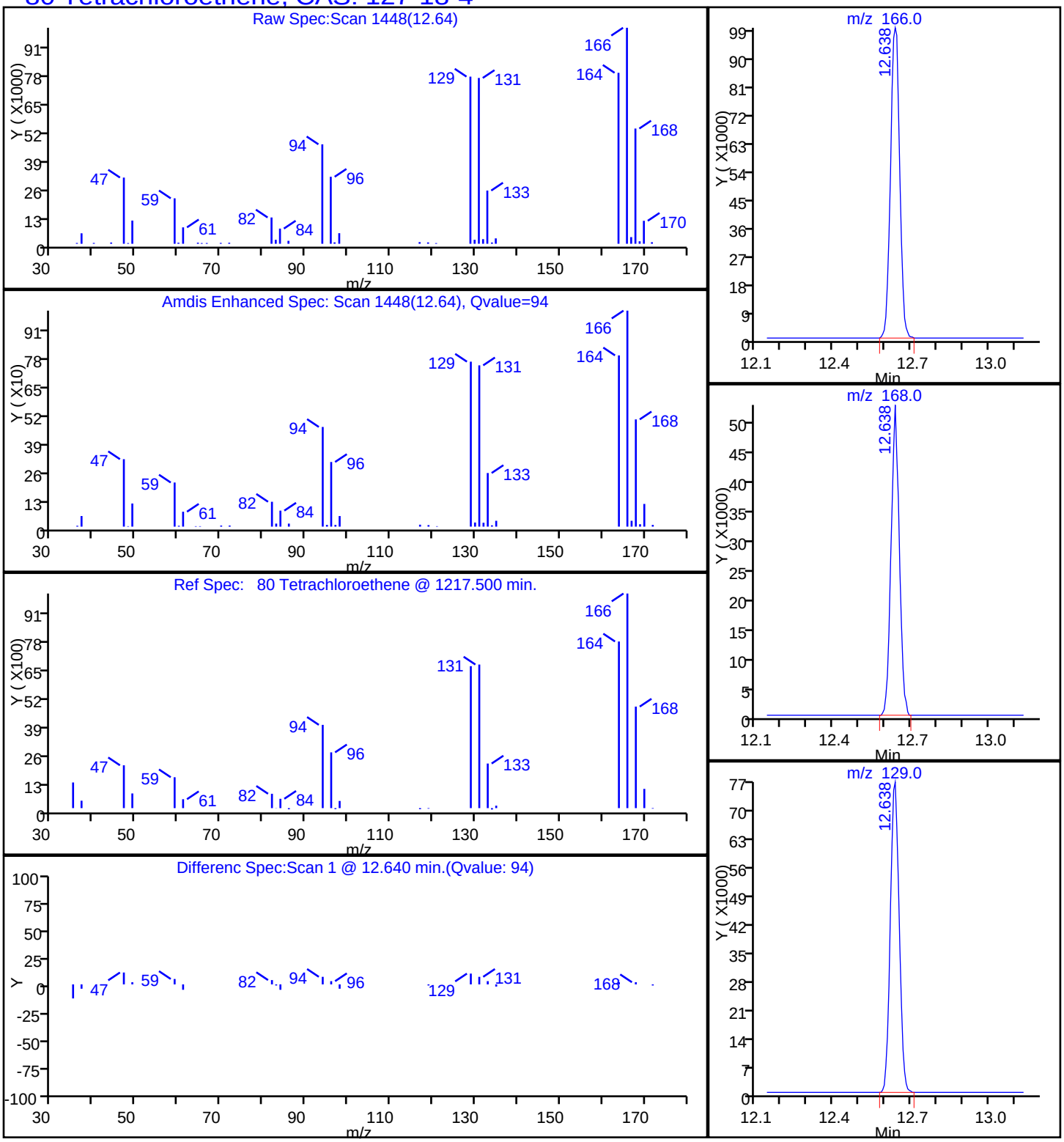


Report Date: 14-Oct-2016 18:10:47 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1407.D				
Injection Date:	14-Oct-2016 17:42:30	Instrument ID:	HP5973P		
Lims ID:	480-107471-A-17	Lab Sample ID:	480-107471-17		
Client ID:	MW-1-S/D				
Operator ID:	RF	ALS Bottle#:	19	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

80 Tetrachloroethene, CAS: 127-18-4

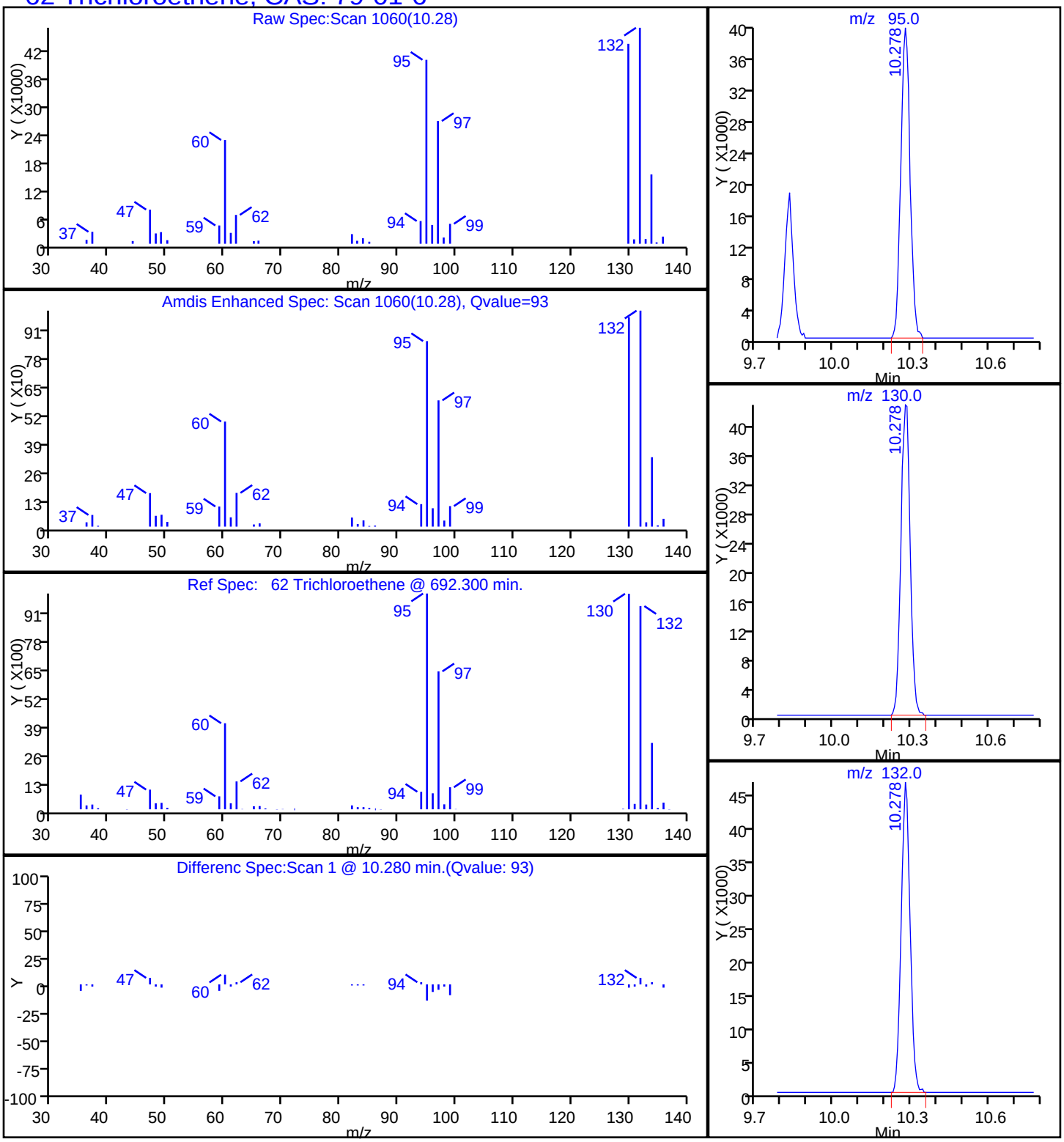


Report Date: 14-Oct-2016 18:10:47 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1407.D				
Injection Date:	14-Oct-2016 17:42:30	Instrument ID:	HP5973P		
Lims ID:	480-107471-A-17	Lab Sample ID:	480-107471-17		
Client ID:	MW-1-S/D				
Operator ID:	RF	ALS Bottle#:	19	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

62 Trichloroethene, CAS: 79-01-6



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

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1 Analy Batch No.: 324022

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/05/2016 22:54 Calibration End Date: 10/06/2016 02:01 Calibration ID: 28524

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-324022/4	N8455.D
Level 2	IC 480-324022/5	N8456.D
Level 3	IC 480-324022/6	N8457.D
Level 4	IC 480-324022/7	N8458.D
Level 5	IC 480-324022/8	N8459.D
Level 6	ICIS 480-324022/9	N8460.D
Level 7	IC 480-324022/10	N8461.D
Level 8	IC 480-324022/11	N8462.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								
Dichlorodifluoromethane	1.2777 1.2938	1.4044 1.2956	1.1648 1.3167	1.3880	1.2266	Ave		1.2960			0.1000	6.0		20.0			
Chloromethane	+++++ 1.8509	2.2457 1.7007	1.8494 1.6196	1.9397	1.6703	Ave		1.8395			0.1000	11.6		20.0			
Vinyl chloride	+++++ 1.4399	1.6767 1.4576	1.5399 1.4238	1.6588	1.3980	Ave		1.5135			0.1000	7.6		20.0			
Butadiene	+++++ 1.4316	1.9297 1.3668	1.5654 1.3965	1.5618	1.3050	Ave		1.5081				13.9		20.0			
Bromomethane	+++++ 1.0262	1.3760 0.9551	1.0303 +++++	1.0550	0.9385	Ave		1.0635			0.1000	15.0		20.0			
Chloroethane	0.8614 0.9322	1.2193 0.8862	0.8625 0.8405	1.0134	0.8595	Ave		0.9344			0.1000	13.7		20.0			
Dichlorofluoromethane	+++++ 2.2499	2.7235 2.1613	2.3831 2.0653	2.2974	2.0213	Ave		2.2717				10.4		20.0			
Trichlorofluoromethane	1.7071 1.8462	1.5710 1.8373	1.6828 1.9302	1.9378	1.6083	Ave		1.7651			0.1000	8.0		20.0			
Ethyl ether	1.4459 1.3583	1.4503 1.2668	1.5058 1.1411	1.2768	1.2922	Ave		1.3422				9.0		20.0			
Acrolein	+++++ 0.2855	0.3977 0.2644	0.3246 0.2306	0.2991	0.2646	Lin1	0.9395	0.2450							0.9930		0.9900
1,1-Dichloroethene	+++++ 1.3874	1.3839 1.2699	1.3446 1.2507	1.3935	1.2982	Ave		1.3326			0.1000	4.5		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	1.3562 1.3720	1.1999 1.2877	1.2672 1.2824	1.2954	1.3465	Ave		1.3009			0.1000	4.3		20.0			
Acetone	+++++ 0.5860	0.6094 0.5436	0.5939 0.4800	0.5733	0.5618	Ave		0.5640			0.1000	7.6		20.0			
Iodomethane	+++++ 2.6508	2.6763 2.5054	2.5401 2.3215	2.5305	2.4376	Ave		2.5232				4.8		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1 Analy Batch No.: 324022

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/05/2016 22:54 Calibration End Date: 10/06/2016 02:01 Calibration ID: 28524

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								
Carbon disulfide	+++++ 4.6681	4.3655 4.2295	3.8583 4.0652	4.3727	4.1284	Ave		4.2411			0.1000	6.1		20.0			
Allyl chloride	2.7865 2.4581	3.1161 2.2219	2.9425 2.1320	2.4822	2.3240	Ave		2.5579				13.8		20.0			
Methyl acetate	1.8353 1.4052	1.5073 1.2916	1.5211 1.1302	1.3441	1.3945	Ave		1.4287			0.1000	14.4		20.0			
Methylene Chloride	+++++ 1.7436	4.0476 1.5220	2.9477 1.3927	1.9573	1.8008	Lin1	2.8776	1.4329			0.1000				0.9950		0.9900
2-Methyl-2-propanol	0.2751 0.2313	0.2089 0.2169	0.2134 0.1925	0.2160	0.2180	Ave		0.2215				10.9		20.0			
Methyl tert-butyl ether	4.9395 4.9231	4.8818 4.5563	5.1071 4.0606	4.5505	4.6402	Ave		4.7074			0.1000	7.0		20.0			
trans-1,2-Dichloroethene	+++++ 1.5941	1.5964 1.4674	1.5146 1.4038	1.5998	1.5133	Ave		1.5270			0.1000	4.9		20.0			
Acrylonitrile	0.8179 0.7331	0.7008 0.6647	0.7768 0.5728	0.7078	0.7035	Ave		0.7097				10.3		20.0			
Hexane	+++++ 1.9969	1.9973 1.8371	1.7730 1.8835	2.1678	1.9536	Ave		1.9442				6.6		20.0			
1,1-Dichloroethane	+++++ 2.7173	2.6611 2.4484	2.7469 2.3303	2.5134	2.6347	Ave		2.5789			0.2000	5.9		20.0			
Vinyl acetate	+++++ 3.1806	3.3242 3.0011	3.1237 2.7994	3.2638	3.1624	Ave		3.1222				5.6		20.0			
2,2-Dichloropropane	+++++ 1.5063	1.5490 1.3850	1.5971 1.2694	1.4089	1.3653	Ave		1.4401				8.0		20.0			
cis-1,2-Dichloroethene	1.8814 1.7630	1.9591 1.5745	1.8247 1.5142	1.7298	1.6545	Ave		1.7377			0.1000	8.7		20.0			
2-Butanone (MEK)	+++++ 0.7564	0.8355 0.7246	0.8801 0.6818	0.8291	0.7629	Ave		0.7815			0.1000	8.9		20.0			
Chlorobromomethane	+++++ 0.9319	0.9403 0.8687	0.9132 0.8391	0.8141	0.8398	Ave		0.8781				5.7		20.0			
Tetrahydrofuran	+++++ 0.5564	0.8026 0.5510	0.6305 0.5084	0.5723	0.5664	Lin1	0.5641	0.5229							0.9980		0.9900
Chloroform	+++++ 2.6623	2.9848 2.4591	2.8208 2.2898	2.6063	2.5554	Ave		2.6255			0.2000	8.7		20.0			
1,1,1-Trichloroethane	+++++ 2.2286	2.2508 2.0315	2.0029 2.0223	2.0753	1.9776	Ave		2.0841			0.1000	5.3		20.0			
Cyclohexane	+++++ 2.4140	2.2918 2.2123	2.1703 2.2287	2.4736	2.3008	Ave		2.2988			0.1000	4.8		20.0			
Carbon tetrachloride	+++++ 2.0424	1.9179 1.8634	1.8433 1.8943	1.8160	1.8556	Ave		1.8904			0.1000	4.0		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1 Analy Batch No.: 324022

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/05/2016 22:54 Calibration End Date: 10/06/2016 02:01 Calibration ID: 28524

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								
1,1-Dichloropropene	+++++ 1.8971	1.7764 1.7312	1.6303 1.7058	1.8478	1.7280	Ave		1.7595				5.1		20.0			
Isobutyl alcohol	+++++ 0.0910	0.0964 0.0823	0.0947 0.0756	0.0919	0.0856	Ave		0.0882				8.4		20.0			
Benzene	+++++ 5.5205	5.6551 5.1944	5.9434 4.8661	5.6025	5.3576	Ave		5.4485			0.5000	6.4		20.0			
1,2-Dichloroethane	+++++ 2.0576	2.1519 1.8567	2.2421 1.8130	2.0383	1.9657	Ave		2.0179			0.1000	7.6		20.0			
n-Heptane	2.5962 1.7848	2.0469 1.7090	1.8087 1.7791	2.1107	1.8023	Lin1	0.4056	1.7585							0.9990		0.9900
Trichloroethene	+++++ 1.4512	1.3476 1.3480	1.4269 1.3380	1.4729	1.3710	Ave		1.3937			0.2000	4.0		20.0			
Methylcyclohexane	2.6747 2.5579	2.5870 2.3270	2.3030 2.3871	2.4884	2.3455	Ave		2.4588			0.1000	5.6		20.0			
1,2-Dichloropropane	+++++ 1.2415	1.5091 1.1859	1.2356 1.1832	1.2673	1.2330	Ave		1.2651			0.1000	8.8		20.0			
Dibromomethane	+++++ 0.9576	0.8508 0.9029	0.9203 0.8547	0.8381	0.8980	Ave		0.8889			0.1000	4.9		20.0			
1,4-Dioxane	+++++ 0.0042	0.0036 0.0042	0.0035 0.0037	0.0043	0.0040	Ave		0.0039				7.9		20.0			
Bromodichloromethane	+++++ 1.8142	1.6457 1.7414	1.7531 1.6839	1.6821	1.6738	Ave		1.7135			0.2000	3.4		20.0			
2-Chloroethyl vinyl ether	+++++ 0.7923	0.7155 0.7767	0.8352 0.8188	0.8933	0.8258	Ave		0.8082				6.8		20.0			
cis-1,3-Dichloropropene	2.2228 2.0824	2.2254 1.9591	2.1717 1.9599	2.0666	1.9532	Ave		2.0801			0.2000	5.6		20.0			
4-Methyl-2-pentanone (MIBK)	0.1534 0.1485	0.1455 0.1502	0.1459 0.1435	0.1607	0.1528	Ave		0.1500			0.1000	3.7		20.0			
Toluene	+++++ 0.8448	0.9174 0.8282	0.8790 0.8345	0.9339	0.8293	Ave		0.8667			0.4000	5.1		20.0			
trans-1,3-Dichloropropene	0.4812 0.4411	0.4563 0.4654	0.4479 0.4845	0.4652	0.4481	Ave		0.4612			0.1000	3.4		20.0			
Ethyl methacrylate	0.3139 0.3991	0.3957 0.4021	0.3662 0.4093	0.4280	0.4379	Ave		0.3940				9.9		20.0			
1,1,2-Trichloroethane	+++++ 0.2408	0.2541 0.2404	0.2363 0.2479	0.2731	0.2544	Ave		0.2496			0.1000	5.0		20.0			
Tetrachloroethene	+++++ 0.3992	0.4117 0.3817	0.3649 0.4152	0.4222	0.3982	Ave		0.3990			0.2000	5.0		20.0			
1,3-Dichloropropane	+++++ 0.4832	0.4758 0.4881	0.5052 0.4961	0.5151	0.5075	Ave		0.4958				2.9		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1 Analy Batch No.: 324022

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/05/2016 22:54 Calibration End Date: 10/06/2016 02:01 Calibration ID: 28524

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-Hexanone	+++++ 0.2438	0.2542 0.2436	0.2542 0.2313	0.2540	0.2672	Ave		0.2497			0.1000	4.6		20.0			
Dibromochloromethane	0.3410 0.3577	0.3689 0.3698	0.3414 0.3925	0.3509	0.3575	Ave		0.3600			0.1000	4.7		20.0			
1,2-Dibromoethane	+++++ 0.3321	0.3142 0.3366	0.3577 0.3442	0.3422	0.3397	Ave		0.3381				3.9		20.0			
Chlorobenzene	+++++ 0.9740	1.0516 0.9454	1.0422 0.9293	1.0280	0.9469	Ave		0.9882			0.5000	5.2		20.0			
1,1,1,2-Tetrachloroethane	+++++ 0.3685	0.3294 0.3683	0.3456 0.3747	0.3707	0.3668	Ave		0.3606				4.6		20.0			
Ethylbenzene	+++++ 1.5929	1.6341 1.4993	1.5279 1.4500	1.6312	1.5716	Ave		1.5581			0.1000	4.4		20.0			
m,p-Xylene	+++++ 0.6506	0.6786 0.6463	0.6461 0.6521	0.6377	0.6642	Ave		0.6537			0.1000	2.1		20.0			
o-Xylene	+++++ 0.6869	0.6736 0.6631	0.6743 0.6515	0.6902	0.6454	Ave		0.6693			0.3000	2.5		20.0			
Styrene	1.1812 1.0830	1.1537 1.0754	1.0008 1.0420	1.0925	1.0648	Ave		1.0867			0.3000	5.3		20.0			
Bromoform	0.2387 0.2347	0.1964 0.2428	0.1993 0.2590	0.2080	0.2081	Ave		0.2234			0.1000	10.4		20.0			
Isopropylbenzene	+++++ 2.8082	2.7674 2.6738	2.6427 2.7811	3.0439	2.9023	Ave		2.8028			0.1000	4.9		20.0			
Bromobenzene	0.8896 0.8045	0.8669 0.7901	0.7916 0.8371	0.8557	0.8263	Ave		0.8327				4.4		20.0			
1,1,2,2-Tetrachloroethane	+++++ 0.7689	0.8169 0.7374	0.8229 0.7647	0.8221	0.8082	Ave		0.7916			0.3000	4.3		20.0			
1,2,3-Trichloropropane	0.3017 0.2524	0.2282 0.2455	0.2528 0.2570	0.2685	0.2717	Ave		0.2597				8.4		20.0			
trans-1,4-Dichloro-2-butene	+++++ 0.2389	0.2859 0.2434	0.2585 0.2570	0.2401	0.2576	Ave		0.2545				6.4		20.0			
N-Propylbenzene	+++++ 3.2549	3.4473 3.0529	3.1258 3.1021	3.5906	3.3805	Ave		3.2791				6.1		20.0			
2-Chlorotoluene	+++++ 0.7314	0.7210 0.7121	0.7597 0.7563	0.7766	0.7281	Ave		0.7407				3.2		20.0			
1,3,5-Trimethylbenzene	+++++ 2.4119	2.4110 2.2709	2.2390 2.2636	2.5171	2.3668	Ave		2.3543				4.3		20.0			
4-Chlorotoluene	+++++ 2.2720	2.1820 2.1655	2.2998 2.2499	2.4499	2.3876	Ave		2.2867				4.5		20.0			
tert-Butylbenzene	0.5944 0.5762	0.5661 0.5473	0.5213 0.5907	0.6239	0.5861	Ave		0.5758				5.4		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1 Analy Batch No.: 324022

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/05/2016 22:54 Calibration End Date: 10/06/2016 02:01 Calibration ID: 28524

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								
1,2,4-Trimethylbenzene	+++++ 2.5027	2.6787 2.2950	2.3216 2.2997	2.6890	2.4853	Ave		2.4674				6.9		20.0			
sec-Butylbenzene	+++++ 3.1076	3.1542 2.8925	2.8863 2.8700	3.3891	3.1356	Ave		3.0622				6.2		20.0			
1,3-Dichlorobenzene	1.8962 1.5484	1.6796 1.4938	1.5567 1.4945	1.6817	1.5611	Ave		1.6140			0.6000	8.4		20.0			
4-Isopropyltoluene	+++++ 2.8397	2.6910 2.6235	2.6621 2.5605	2.9870	2.7025	Ave		2.7238				5.3		20.0			
1,4-Dichlorobenzene	+++++ 1.5822	1.6306 1.5395	1.6598 1.5310	1.6545	1.6046	Ave		1.6003			0.5000	3.3		20.0			
n-Butylbenzene	+++++ 2.3905	2.4027 2.1936	2.1944 2.1109	2.5621	2.2877	Ave		2.3060				6.8		20.0			
1,2-Dichlorobenzene	1.6530 1.5158	1.6243 1.4840	1.4880 1.4212	1.5729	1.5017	Ave		1.5326			0.4000	5.1		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1405	0.0770 0.1461	0.0894 0.1431	0.1256	0.1538	Lin1	-0.077	0.1455			0.0500				0.9990		0.9900
1,2,4-Trichlorobenzene	+++++ 0.9332	0.8498 0.8810	0.8807 0.7826	0.9327	0.8560	Ave		0.8737			0.2000	6.0		20.0			
Hexachlorobutadiene	0.3745 0.4125	0.3861 0.3951	0.3633 0.3601	0.4148	0.3614	Ave		0.3835				5.8		20.0			
Naphthalene	+++++ 2.6327	2.4131 2.4375	2.6131 2.0839	2.7192	2.3648	Ave		2.4663				8.7		20.0			
1,2,3-Trichlorobenzene	+++++ 0.8635	0.7729 0.8036	0.8512 0.7034	0.8809	0.7519	Ave		0.8039				8.1		20.0			
Dibromofluoromethane (Surr)	1.3785 1.4529	1.4030 1.4252	1.5358 1.3381	1.3686	1.4353	Ave		1.4172				4.3		20.0			
1,2-Dichloroethane-d4 (Surr)	1.5639 1.5691	1.5392 1.5441	1.6245 1.4668	1.4874	1.5270	Ave		1.5403				3.2		20.0			
Toluene-d8 (Surr)	1.2189 1.1981	1.2042 1.2174	1.1917 1.2481	1.2441	1.2266	Ave		1.2186				1.7		20.0			
4-Bromofluorobenzene (Surr)	0.4401 0.4398	0.4377 0.4513	0.4478 0.4380	0.4534	0.4493	Ave		0.4447				1.4		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1 Analy Batch No.: 324022

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/05/2016 22:54 Calibration End Date: 10/06/2016 02:01 Calibration ID: 28524

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-324022/4	N8455.D
Level 2	IC 480-324022/5	N8456.D
Level 3	IC 480-324022/6	N8457.D
Level 4	IC 480-324022/7	N8458.D
Level 5	IC 480-324022/8	N8459.D
Level 6	ICIS 480-324022/9	N8460.D
Level 7	IC 480-324022/10	N8461.D
Level 8	IC 480-324022/11	N8462.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			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
Dichlorodifluoromethane	FB	Ave	3189 144024	6578 313850	10571 711633	33760	58905	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloromethane	FB	Ave	+++++ 206034	10518 411986	16785 875316	47180	80210	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl chloride	FB	Ave	+++++ 160284	7853 353081	13976 769521	40347	67133	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Butadiene	FB	Ave	+++++ 159360	9038 331096	14207 754724	37989	62666	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromomethane	FB	Ave	+++++ 114236	6445 231369	9351 +++++	25662	45068	+++++ 25.0	1.00 50.0	2.00 +++++	5.00	10.0
Chloroethane	FB	Ave	2150 103772	5711 214663	7828 454236	24650	41275	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dichlorofluoromethane	FB	Ave	+++++ 250452	12756 523546	21628 1116174	55880	97064	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichlorofluoromethane	FB	Ave	4261 205516	7358 445064	15273 1043155	47135	77231	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl ether	FB	Ave	3609 151204	6793 306864	13666 616710	31056	62053	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrolein	FB	Lin1	+++++ 158929	9313 320235	14730 623019	36373	63528	+++++ 125	5.00 250	10.0 500	25.0	50.0
1,1-Dichloroethene	FB	Ave	+++++ 154440	6482 307628	12203 675919	33896	62341	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave	3385 152721	5620 311946	11501 693049	31510	64662	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acetone	FB	Ave	+++++ 326181	14272 658356	26948 1297112	69725	134899	+++++ 125	5.00 250	10.0 500	25.0	50.0
Iodomethane	FB	Ave	+++++ 295078	12535 606918	23053 1254685	61551	117056	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon disulfide	FB	Ave	+++++ 519636	20447 1024573	35017 2197067	106359	198253	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1 Analy Batch No.: 324022

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/05/2016 22:54 Calibration End Date: 10/06/2016 02:01 Calibration ID: 28524

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			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
Allyl chloride	FB	Ave	6955 273630	14595 538238	26705 1152239	60376	111600	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Methyl acetate	FB	Ave	22904 782084	35299 1564415	69026 3054227	163471	334838	2.50 125	5.00 250	10.0 500	25.0	50.0
Methylene Chloride	FB	Lin1	+++++ 194088	18958 368681	26752 752701	47608	86475	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Methyl-2-propanol	FB	Ave	6867 257490	9783 525335	19368 1040375	52527	104675	5.00 250	10.0 500	20.0 1000	50.0	100
Methyl tert-butyl ether	FB	Ave	12329 548023	22865 1103737	46350 2194567	110685	222830	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	+++++ 177447	7477 355476	13746 758670	38913	72669	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrylonitrile	FB	Ave	20415 816072	32823 1610146	70499 3095601	172160	337830	5.00 250	10.0 500	20.0 1000	50.0	100
Hexane	FB	Ave	+++++ 222289	9355 445032	16091 1017946	52729	93815	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethane	FB	Ave	+++++ 302479	12464 593098	24930 1259389	61134	126521	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl acetate	FB	Ave	+++++ 708110	31139 1453971	56699 3025892	158777	303726	+++++ 50.0	2.00 100	4.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	+++++ 167676	7255 335509	14495 686030	34269	65565	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	4696 196246	9176 381421	16560 818366	42075	79452	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Butanone (MEK)	FB	Ave	+++++ 420971	19566 877583	39938 1842289	100835	183167	+++++ 125	5.00 250	10.0 500	25.0	50.0
Chlorobromomethane	FB	Ave	+++++ 103731	4404 210444	8288 453473	19802	40328	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrahydrofuran	FB	Lin1	+++++ 123875	7518 266968	11445 549532	27841	54395	+++++ 50.0	2.00 100	4.00 200	10.0	20.0
Chloroform	FB	Ave	+++++ 296357	13980 595703	25601 1237544	63394	122714	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	+++++ 248082	10542 492106	18178 1092952	50478	94966	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Cyclohexane	FB	Ave	+++++ 268720	10734 535904	19697 1204528	60166	110487	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon tetrachloride	FB	Ave	+++++ 227354	8983 451388	16729 1023753	44171	89110	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloropropene	FB	Ave	+++++ 211178	8320 419358	14796 921906	44945	82980	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Isobutyl alcohol	FB	Ave	+++++ 253136	11291 498642	21498 1021465	55864	102824	+++++ 625	25.0 1250	50.0 2500	125	250

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

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1 Analy Batch No.: 324022

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/05/2016 22:54 Calibration End Date: 10/06/2016 02:01 Calibration ID: 28524

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			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
Benzene	FB	Ave	+++++ 614521	26487 1258293	53940 2629893	136272	257280	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloroethane	FB	Ave	+++++ 229043	10079 449780	20349 979847	49580	94397	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Heptane	FB	Lin1	6480 198682	9587 413995	16415 961499	51339	86548	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichloroethene	FB	Ave	+++++ 161540	6312 326535	12950 723137	35827	65838	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Methylcyclohexane	FB	Ave	6676 284736	12117 563701	20901 1290105	60527	112635	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloropropane	FB	Ave	+++++ 138204	7068 287280	11214 639460	30826	59212	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromomethane	FB	Ave	+++++ 106599	3985 218730	8352 461934	20385	43124	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dioxane	CBNZ d5	Ave	+++++ 37647	1317 79359	2581 149885	8126	14761	+++++ 500	20.0 1000	40.0 2000	100	200
Bromodichloromethane	FB	Ave	+++++ 201949	7708 421837	15911 910057	40914	80380	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chloroethyl vinyl ether	FB	Ave	+++++ 88191	3351 188146	7580 442504	21728	39658	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	5548 231804	10423 474572	19710 1059221	50267	93796	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	7411 335291	13202 708969	26896 1453216	76365	141817	2.50 125	5.00 250	10.0 500	25.0	50.0
Toluene	CBNZ d5	Ave	+++++ 381545	16646 782097	32416 1690543	88778	153962	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	4651 199195	8280 439450	16518 981520	44217	83185	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl methacrylate	CBNZ d5	Ave	3034 180230	7180 379735	13505 829089	40681	81294	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloroethane	CBNZ d5	Ave	+++++ 108747	4611 227051	8715 502111	25959	47219	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrachloroethene	CBNZ d5	Ave	+++++ 180272	7471 360477	13456 841105	40130	73921	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichloropropane	CBNZ d5	Ave	+++++ 218219	8634 460937	18630 1004986	48960	94217	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Hexanone	CBNZ d5	Ave	+++++ 550574	23059 1150035	46865 2342536	120738	247991	+++++ 125	5.00 250	10.0 500	25.0	50.0
Dibromochloromethane	CBNZ d5	Ave	3296 161568	6693 349164	12591 795221	33359	66359	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromoethane	CBNZ d5	Ave	+++++ 149997	5702 317814	13193 697284	32532	63071	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1 Analy Batch No.: 324022

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/05/2016 22:54 Calibration End Date: 10/06/2016 02:01 Calibration ID: 28524

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			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
Chlorobenzene	CBNZ d5	Ave	+++++ 439900	19081 892739	38434 1882604	97721	175782	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	+++++ 166413	5977 347808	12746 759017	35237	68094	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethylbenzene	CBNZ d5	Ave	+++++ 719390	29651 1415781	56348 2937408	155057	291761	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
m,p-Xylene	CBNZ d5	Ave	+++++ 293820	12314 610351	23829 1321116	60621	123305	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
o-Xylene	CBNZ d5	Ave	+++++ 310212	12223 626221	24869 1319920	65604	119816	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Styrene	CBNZ d5	Ave	11416 489126	20933 1015522	36909 2111034	103850	197679	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromoform	CBNZ d5	Ave	2307 106016	3564 229289	7351 524601	19774	38633	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Isopropylbenzene	DCBd 4	Ave	+++++ 759368	28929 1503499	56979 3099528	162781	305794	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromobenzene	DCBd 4	Ave	4753 217555	9062 444301	17068 932953	45760	87066	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	+++++ 207920	8539 414647	17742 852221	43964	85156	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichloropropane	DCBd 4	Ave	1612 68264	2385 138021	5450 286452	14361	28627	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	+++++ 64604	2989 136873	5573 286407	12841	27137	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
N-Propylbenzene	DCBd 4	Ave	+++++ 880153	36036 1716691	67395 3457274	192015	356173	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chlorotoluene	DCBd 4	Ave	+++++ 197772	7537 400413	16379 842859	41529	76719	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	+++++ 652203	25203 1276932	48275 2522692	134608	249372	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Chlorotoluene	DCBd 4	Ave	+++++ 614370	22810 1217689	49586 2507452	131015	251561	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
tert-Butylbenzene	DCBd 4	Ave	3176 155804	5918 307734	11239 658347	33365	61758	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	+++++ 676762	28002 1290486	50056 2562973	143799	261857	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
sec-Butylbenzene	DCBd 4	Ave	+++++ 840315	32973 1626470	62232 3198600	181240	330378	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	10131 418698	17558 839958	33564 1665570	89933	164480	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Isopropyltoluene	DCBd 4	Ave	+++++ 767895	28130 1475242	57398 2853593	159739	284742	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1 Analy Batch No.: 324022

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/05/2016 22:54 Calibration End Date: 10/06/2016 02:01 Calibration ID: 28524

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			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
1,4-Dichlorobenzene	DCBd 4	Ave	+++++ 427833	17045 865658	35786 1706268	88478	169060	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Butylbenzene	DCBd 4	Ave	+++++ 646408	25117 1233509	47314 2352532	137014	241036	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	8832 409888	16980 834458	32083 1583897	84117	158222	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Lin1	+++++ 37984	805 82174	1927 159503	6718	16205	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	+++++ 252348	8883 495404	18988 872238	49876	90193	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Hexachlorobutadiene	DCBd 4	Ave	2001 111531	4036 222163	7833 401340	22185	38082	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Naphthalene	DCBd 4	Ave	+++++ 711903	25225 1370614	56340 2322525	145418	249162	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	+++++ 233488	8080 451858	18353 783923	47110	79218	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromofluoromethane (Surr)	FB	Ave	172030 161734	164276 172617	174225 180801	166452	172317	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	195171 174665	180229 187026	184298 198190	180897	183319	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
Toluene-d8 (Surr)	CBNZ d5	Ave	589041 541078	546236 574787	549380 632134	591299	569287	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	212681 198636	198554 213092	206413 221831	215507	208541	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1 Analy Batch No.: 324022

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/05/2016 22:54 Calibration End Date: 10/06/2016 02:01 Calibration ID: 28524

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-324022/4	N8455.D
Level 2	IC 480-324022/5	N8456.D
Level 3	IC 480-324022/6	N8457.D
Level 4	IC 480-324022/7	N8458.D
Level 5	IC 480-324022/8	N8459.D
Level 6	ICIS 480-324022/9	N8460.D
Level 7	IC 480-324022/10	N8461.D
Level 8	IC 480-324022/11	N8462.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane	-1.4 0.0	8.4 1.6	-10.1	7.1	-5.3	-0.2	30 30	30 30	30	30	30	30
Chloromethane	+++++ -7.5	22.1 -12.0	0.5	5.4	-9.2	0.6	 30	30 30	30	30	30	30
Vinyl chloride	+++++ -3.7	10.8 -5.9	1.7	9.6	-7.6	-4.9	 30	30 30	30	30	30	30
Butadiene	+++++ -9.4	28.0 -7.4	3.8	3.6	-13.5	-5.1	 30	30 30	30	30	30	30
Bromomethane	+++++ -10.2	29.4 +++++	-3.1	-0.8	-11.8	-3.5	 30	30	30	30	30	30
Chloroethane	-7.8 -5.2	30.5 * -10.0	-7.7	8.5	-8.0	-0.2	30 30	30 30	30	30	30	30
Dichlorofluoromethane	+++++ -4.9	19.9 -9.1	4.9	1.1	-11.0	-1.0	 30	30 30	30	30	30	30
Trichlorofluoromethane	-3.3 4.1	-11.0 9.4	-4.7	9.8	-8.9	4.6	30 30	30 30	30	30	30	30
Ethyl ether	7.7 -5.6	8.1 -15.0	12.2	-4.9	-3.7	1.2	30 30	30 30	30	30	30	30
Acrolein	+++++ 6.4	-14.4 -6.7	-5.9	6.7	0.3	13.5	 30	30 30	30	30	30	30
1,1-Dichloroethene	+++++ -4.7	3.9 -6.1	0.9	4.6	-2.6	4.1	 30	30 30	30	30	30	30
1,1,2-Trichloro-1,2,2-trifluoroethane	4.2 -1.0	-7.8 -1.4	-2.6	-0.4	3.5	5.5	30 30	30 30	30	30	30	30
Acetone	+++++ -3.6	8.1 -14.9	5.3	1.7	-0.4	3.9	 30	30 30	30	30	30	30
Iodomethane	+++++ -0.7	6.1 -8.0	0.7	0.3	-3.4	5.1	 30	30 30	30	30	30	30
Carbon disulfide	+++++ -0.3	2.9 -4.1	-9.0	3.1	-2.7	10.1	 30	30 30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1 Analy Batch No.: 324022

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/05/2016 22:54 Calibration End Date: 10/06/2016 02:01 Calibration ID: 28524

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Allyl chloride	8.9 -13.1	21.8 -16.7	15.0	-3.0	-9.1	-3.9	30 30	30 30	30	30	30	30
Methyl acetate	28.5 -9.6	5.5 -20.9	6.5	-5.9	-2.4	-1.6	30 30	30 30	30	30	30	30
Methylene Chloride	+++++ 2.2	-18.3 -4.8	5.3	-3.6	5.6	13.6	 30	30 30	30	30	30	30
2-Methyl-2-propanol	24.2 -2.1	-5.7 -13.1	-3.7	-2.5	-1.6	4.4	30 30	30 30	30	30	30	30
Methyl tert-butyl ether	4.9 -3.2	3.7 -13.7	8.5	-3.3	-1.4	4.6	30 30	30 30	30	30	30	30
trans-1,2-Dichloroethene	+++++ -3.9	4.5 -8.1	-0.8	4.8	-0.9	4.4	 30	30 30	30	30	30	30
Acrylonitrile	15.3 -6.3	-1.3 -19.3	9.5	-0.3	-0.9	3.3	30 30	30 30	30	30	30	30
Hexane	+++++ -5.5	2.7 -3.1	-8.8	11.5	0.5	2.7	 30	30 30	30	30	30	30
1,1-Dichloroethane	+++++ -5.1	3.2 -9.6	6.5	-2.5	2.2	5.4	 30	30 30	30	30	30	30
Vinyl acetate	+++++ -3.9	6.5 -10.3	0.0	4.5	1.3	1.9	 30	30 30	30	30	30	30
2,2-Dichloropropane	+++++ -3.8	7.6 -11.9	10.9	-2.2	-5.2	4.6	 30	30 30	30	30	30	30
cis-1,2-Dichloroethene	8.3 -9.4	12.7 -12.9	5.0	-0.5	-4.8	1.5	30 30	30 30	30	30	30	30
2-Butanone (MEK)	+++++ -7.3	6.9 -12.8	12.6	6.1	-2.4	-3.2	 30	30 30	30	30	30	30
Chlorobromomethane	+++++ -1.1	7.1 -4.5	4.0	-7.3	-4.4	6.1	 30	30 30	30	30	30	30
Tetrahydrofuran	+++++ 4.3	-0.5 -3.3	-6.4	-1.3	2.9	4.3	 30	30 30	30	30	30	30
Chloroform	+++++ -6.3	13.7 -12.8	7.4	-0.7	-2.7	1.4	 30	30 30	30	30	30	30
1,1,1-Trichloroethane	+++++ -2.5	8.0 -3.0	-3.9	-0.4	-5.1	6.9	 30	30 30	30	30	30	30
Cyclohexane	+++++ -3.8	-0.3 -3.0	-5.6	7.6	0.1	5.0	 30	30 30	30	30	30	30
Carbon tetrachloride	+++++ -1.4	1.5 0.2	-2.5	-3.9	-1.8	8.0	 30	30 30	30	30	30	30
1,1-Dichloropropene	+++++ -1.6	1.0 -3.1	-7.3	5.0	-1.8	7.8	 30	30 30	30	30	30	30
Isobutyl alcohol	+++++ -6.7	9.3 -14.3	7.4	4.1	-2.9	3.1	 30	30 30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1 Analy Batch No.: 324022

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/05/2016 22:54 Calibration End Date: 10/06/2016 02:01 Calibration ID: 28524

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Benzene	+++++ -4.7	3.8 -10.7	9.1	2.8	-1.7	1.3	30	30 30	30	30	30	30
1,2-Dichloroethane	+++++ -8.0	6.6 -10.2	11.1	1.0	-2.6	2.0	30	30 30	30	30	30	30
n-Heptane	1.5 -3.3	-6.7 0.9	-8.7	15.4	0.2	0.6	30 30	30 30	30	30	30	30
Trichloroethene	+++++ -3.3	-3.3 -4.0	2.4	5.7	-1.6	4.1	30	30 30	30	30	30	30
Methylcyclohexane	8.8 -5.4	5.2 -2.9	-6.3	1.2	-4.6	4.0	30 30	30 30	30	30	30	30
1,2-Dichloropropane	+++++ -6.3	19.3 -6.5	-2.3	0.2	-2.5	-1.9	30	30 30	30	30	30	30
Dibromomethane	+++++ 1.6	-4.3 -3.8	3.5	-5.7	1.0	7.7	30	30 30	30	30	30	30
1,4-Dioxane	+++++ 7.2	-7.4 -5.7	-10.8	9.0	1.4	6.3	30	30 30	30	30	30	30
Bromodichloromethane	+++++ 1.6	-4.0 -1.7	2.3	-1.8	-2.3	5.9	30	30 30	30	30	30	30
2-Chloroethyl vinyl ether	+++++ -3.9	-11.5 1.3	3.3	10.5	2.2	-2.0	30	30 30	30	30	30	30
cis-1,3-Dichloropropene	6.9 -5.8	7.0 -5.8	4.4	-0.7	-6.1	0.1	30 30	30 30	30	30	30	30
4-Methyl-2-pentanone (MIBK)	2.2 0.1	-3.0 -4.4	-2.8	7.1	1.8	-1.0	30 30	30 30	30	30	30	30
Toluene	+++++ -4.4	5.8 -3.7	1.4	7.8	-4.3	-2.5	30	30 30	30	30	30	30
trans-1,3-Dichloropropene	4.3 0.9	-1.1 5.1	-2.9	0.9	-2.8	-4.4	30 30	30 30	30	30	30	30
Ethyl methacrylate	-20.3 2.1	0.4 3.9	-7.1	8.6	11.1	1.3	30 30	30 30	30	30	30	30
1,1,2-Trichloroethane	+++++ -3.7	1.8 -0.7	-5.3	9.4	1.9	-3.5	30	30 30	30	30	30	30
Tetrachloroethene	+++++ -4.3	3.2 4.1	-8.6	5.8	-0.2	0.0	30	30 30	30	30	30	30
1,3-Dichloropropane	+++++ -1.6	-4.0 0.0	1.9	3.9	2.4	-2.6	30	30 30	30	30	30	30
2-Hexanone	+++++ -2.5	1.8 -7.4	1.8	1.7	7.0	-2.4	30	30 30	30	30	30	30
Dibromochloromethane	-5.3 2.7	2.5 9.0	-5.2	-2.5	-0.7	-0.6	30 30	30 30	30	30	30	30
1,2-Dibromoethane	+++++ -0.5	-7.1 1.8	5.8	1.2	0.5	-1.8	30	30 30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1 Analy Batch No.: 324022

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/05/2016 22:54 Calibration End Date: 10/06/2016 02:01 Calibration ID: 28524

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Chlorobenzene	+++++ -4.3	6.4 -6.0	5.5	4.0	-4.2	-1.4	30	30 30	30	30	30	30
1,1,1,2-Tetrachloroethane	+++++ 2.1	-8.6 3.9	-4.1	2.8	1.7	2.2	30	30 30	30	30	30	30
Ethylbenzene	+++++ -3.8	4.9 -6.9	-1.9	4.7	0.9	2.2	30	30 30	30	30	30	30
m,p-Xylene	+++++ -1.1	3.8 -0.2	-1.2	-2.4	1.6	-0.5	30	30 30	30	30	30	30
o-Xylene	+++++ -0.9	0.6 -2.7	0.8	3.1	-3.6	2.6	30	30 30	30	30	30	30
Styrene	8.7 -1.0	6.2 -4.1	-7.9	0.5	-2.0	-0.3	30 30	30 30	30	30	30	30
Bromoform	6.9 8.7	-12.1 15.9	-10.8	-6.9	-6.8	5.1	30 30	30 30	30	30	30	30
Isopropylbenzene	+++++ -4.6	-1.3 -0.8	-5.7	8.6	3.6	0.2	30	30 30	30	30	30	30
Bromobenzene	6.8 -5.1	4.1 0.5	-4.9	2.8	-0.8	-3.4	30 30	30 30	30	30	30	30
1,1,2,2-Tetrachloroethane	+++++ -6.8	3.2 -3.4	4.0	3.9	2.1	-2.9	30	30 30	30	30	30	30
1,2,3-Trichloropropane	16.2 -5.5	-12.2 -1.0	-2.7	3.4	4.6	-2.8	30 30	30 30	30	30	30	30
trans-1,4-Dichloro-2-butene	+++++ -4.4	12.4 1.0	1.6	-5.6	1.2	-6.1	30	30 30	30	30	30	30
N-Propylbenzene	+++++ -6.9	5.1 -5.4	-4.7	9.5	3.1	-0.7	30	30 30	30	30	30	30
2-Chlorotoluene	+++++ -3.9	-2.7 2.1	2.6	4.8	-1.7	-1.3	30	30 30	30	30	30	30
1,3,5-Trimethylbenzene	+++++ -3.5	2.4 -3.9	-4.9	6.9	0.5	2.4	30	30 30	30	30	30	30
4-Chlorotoluene	+++++ -5.3	-4.6 -1.6	0.6	7.1	4.4	-0.6	30	30 30	30	30	30	30
tert-Butylbenzene	3.2 -4.9	-1.7 2.6	-9.5	8.4	1.8	0.1	30 30	30 30	30	30	30	30
1,2,4-Trimethylbenzene	+++++ -7.0	8.6 -6.8	-5.9	9.0	0.7	1.4	30	30 30	30	30	30	30
sec-Butylbenzene	+++++ -5.5	3.0 -6.3	-5.7	10.7	2.4	1.5	30	30 30	30	30	30	30
1,3-Dichlorobenzene	17.5 -7.4	4.1 -7.4	-3.5	4.2	-3.3	-4.1	30 30	30 30	30	30	30	30
4-Isopropyltoluene	+++++ -3.7	-1.2 -6.0	-2.3	9.7	-0.8	4.3	30	30 30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1 Analy Batch No.: 324022

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/05/2016 22:54 Calibration End Date: 10/06/2016 02:01 Calibration ID: 28524

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
1,4-Dichlorobenzene	+++++ -3.8	1.9 -4.3	3.7	3.4	0.3	-1.1	30	30 30	30	30	30	30
n-Butylbenzene	+++++ -4.9	4.2 -8.5	-4.8	11.1	-0.8	3.7	30	30 30	30	30	30	30
1,2-Dichlorobenzene	7.9 -3.2	6.0 -7.3	-2.9	2.6	-2.0	-1.1	30 30	30 30	30	30	30	30
1,2-Dibromo-3-Chloropropane	+++++ 1.5	5.5 -1.1	-12.3	-3.2	10.9	-1.4	30	30 30	30	30	30	30
1,2,4-Trichlorobenzene	+++++ 0.8	-2.7 -10.4	0.8	6.7	-2.0	6.8	30	30 30	30	30	30	30
Hexachlorobutadiene	-2.3 3.0	0.7 -6.1	-5.3	8.2	-5.7	7.6	30 30	30 30	30	30	30	30
Naphthalene	+++++ -1.2	-2.2 -15.5	5.9	10.3	-4.1	6.7	30	30 30	30	30	30	30
1,2,3-Trichlorobenzene	+++++ 0.0	-3.9 -12.5	5.9	9.6	-6.5	7.4	30	30 30	30	30	30	30
Dibromofluoromethane (Surr)	-2.7 0.6	-1.0 -5.6	8.4	-3.4	1.3	2.5	30 30	30 30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	1.5 0.3	-0.1 -4.8	5.5	-3.4	-0.9	1.9	30 30	30 30	30	30	30	30
Toluene-d8 (Surr)	0.0 -0.1	-1.2 2.4	-2.2	2.1	0.7	-1.7	30 30	30 30	30	30	30	30
4-Bromofluorobenzene (Surr)	-1.0 1.5	-1.6 -1.5	0.7	2.0	1.0	-1.1	30 30	30 30	30	30	30	30

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8455.D
Lims ID: IC 0.5
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 05-Oct-2016 22:54:30 ALS Bottle#: 32 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 0.5
Misc. Info.: 480-0057013-004
Operator ID: SO Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 10-Oct-2016 13:13:55 Calib Date: 06-Oct-2016 06:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK038

First Level Reviewer: HillL Date: 10-Oct-2016 13:06:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.528	5.528	0.000	99	124799	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.527	8.527	0.000	85	483256	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.906	10.906	0.000	94	267146	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.932	4.932	0.000	92	172030	25.0	24.3	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.242	5.242	0.000	0	195171	25.0	25.4	
$ 6 Toluene-d8 (Surr)	98	7.043	7.043	0.000	92	589041	25.0	25.0	
$ 7 4-Bromofluorobenzene (Surr	174	9.774	9.774	0.000	95	212681	25.0	24.7	
11 Dichlorodifluoromethane	85	1.379	1.379	0.000	25	3189	0.5000	0.4929	
13 Chloromethane	50	1.525	1.531	-0.006	98	5937	0.5000	0.6466	
14 Vinyl chloride	62	1.640	1.647	-0.007	91	4557	0.5000	0.6031	
144 Butadiene	54	1.659	1.665	-0.006	88	5076	0.5000	0.6742	
15 Bromomethane	94	1.938	1.939	-0.001	74	4548	0.5000	0.8566	
16 Chloroethane	64	2.060	2.042	0.018	1	2150	0.5000	0.4609	
17 Dichlorofluoromethane	67	2.255	2.261	-0.006	12	8237	0.5000	0.7264	
18 Trichlorofluoromethane	101	2.285	2.285	0.000	9	4261	0.5000	0.4836	
19 Ethyl ether	59	2.565	2.565	0.000	88	3609	0.5000	0.5387	
20 Acrolein	56	2.717	2.723	-0.006	48	5523	2.50	0.6811	
22 1,1-Dichloroethene	96	2.772	2.778	-0.006	93	4004	0.5000	0.6019	
21 1,1,2-Trichloro-1,2,2-trif	101	2.778	2.784	-0.006	72	3385	0.5000	0.5212	
23 Acetone	43	2.875	2.875	0.000	79	13009	2.50	4.62	
24 Iodomethane	142	2.924	2.930	-0.006	72	7555	0.5000	0.5998	
25 Carbon disulfide	76	2.979	2.979	0.000	97	12544	0.5000	0.5925	
27 3-Chloro-1-propene	41	3.137	3.137	0.000	76	6955	0.5000	0.5447	
28 Methyl acetate	43	3.180	3.180	0.000	98	22904	2.50	3.21	
30 Methylene Chloride	84	3.277	3.277	0.000	91	14842	0.5000	0.0667	
31 2-Methyl-2-propanol	59	3.435	3.429	0.006	55	6867	5.00	6.21	
32 Methyl tert-butyl ether	73	3.508	3.508	0.000	90	12329	0.5000	0.5247	
33 trans-1,2-Dichloroethene	96	3.520	3.520	0.000	82	4467	0.5000	0.5860	
34 Acrylonitrile	53	3.538	3.539	-0.001	99	20415	5.00	5.76	
35 Hexane	57	3.733	3.733	0.000	86	6574	0.5000	0.6774	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.922	3.922	0.000	89	7238	0.5000	0.5622	
39 Vinyl acetate	43	3.976	3.977	-0.001	96	20946	1.00	1.34	
42 2,2-Dichloropropane	77	4.439	4.451	-0.012	26	4589	0.5000	0.6383	
43 cis-1,2-Dichloroethene	96	4.475	4.469	0.006	76	4696	0.5000	0.5414	
44 2-Butanone (MEK)	43	4.512	4.500	0.012	98	12183	2.50	3.12	
47 Chlorobromomethane	128	4.700	4.707	-0.007	86	2741	0.5000	0.6253	
49 Tetrahydrofuran	42	4.755	4.737	0.018	55	4560	1.00	0.6682	
50 Chloroform	83	4.779	4.780	-0.001	94	9562	0.5000	0.7296	
51 1,1,1-Trichloroethane	97	4.925	4.913	0.012	1	5842	0.5000	0.5615	
52 Cyclohexane	56	4.938	4.938	0.000	32	6850	0.5000	0.5969	
53 Carbon tetrachloride	117	5.053	5.059	-0.006	88	5920	0.5000	0.6273	
54 1,1-Dichloropropene	75	5.072	5.066	0.006	88	5257	0.5000	0.5985	
56 Isobutyl alcohol	43	5.242	5.242	0.000	41	7029	12.5	16.0	
55 Benzene	78	5.260	5.266	-0.006	91	17285	0.5000	0.6355	
57 1,2-Dichloroethane	62	5.309	5.315	-0.006	95	6472	0.5000	0.6425	
59 n-Heptane	43	5.467	5.473	-0.006	90	6480	0.5000	0.5075	
60 Trichloroethene	95	5.881	5.875	0.006	91	4150	0.5000	0.5965	
62 Methylcyclohexane	83	6.021	6.021	0.000	90	6676	0.5000	0.5439	
63 1,2-Dichloropropane	63	6.094	6.100	-0.006	23	3961	0.5000	0.6272	
64 Dibromomethane	93	6.240	6.234	0.006	60	2636	0.5000	0.5940	
66 1,4-Dioxane	88		6.246				ND	ND	
67 Dichlorobromomethane	83	6.386	6.386	0.000	91	5931	0.5000	0.6934	
69 2-Chloroethyl vinyl ether	63	6.671	6.666	0.005	85	2367	0.5000	0.5867	
71 cis-1,3-Dichloropropene	75	6.811	6.805	0.006	90	5548	0.5000	0.5343	
72 4-Methyl-2-pentanone (MIBK	58	6.957	6.951	0.006	95	7411	2.50	2.56	
73 Toluene	92	7.110	7.110	0.000	96	9937	0.5000	0.5931	
75 trans-1,3-Dichloropropene	75	7.371	7.371	0.000	92	4651	0.5000	0.5217	
77 Ethyl methacrylate	69	7.438	7.432	0.006	89	3034	0.5000	0.3984	
78 1,1,2-Trichloroethane	83	7.560	7.554	0.006	78	2977	0.5000	0.6171	
79 Tetrachloroethene	166	7.657	7.651	0.006	88	4595	0.5000	0.5958	
80 1,3-Dichloropropane	76	7.724	7.724	0.000	46	5578	0.5000	0.5820	
82 2-Hexanone	43	7.785	7.791	-0.006	98	15399	2.50	3.19	
83 Chlorodibromomethane	129	7.955	7.961	-0.006	1	3296	0.5000	0.4737	
84 Ethylene Dibromide	107	8.071	8.065	0.006	92	3707	0.5000	0.5672	
85 Chlorobenzene	112	8.551	8.558	-0.007	89	10886	0.5000	0.5699	
89 1,1,1,2-Tetrachloroethane	131	8.655	8.649	0.006	47	4025	0.5000	0.5775	
88 Ethylbenzene	91	8.655	8.655	0.000	97	19467	0.5000	0.6463	
90 m-Xylene & p-Xylene	106	8.770	8.777	-0.007	0	7872	0.5000	0.6230	
91 o-Xylene	106	9.202	9.202	0.000	92	7247	0.5000	0.5601	
92 Styrene	104	9.227	9.227	0.000	93	11416	0.5000	0.5435	
93 Bromoform	173	9.458	9.458	0.000	27	2307	0.5000	0.5343	
95 Isopropylbenzene	105	9.592	9.592	0.000	95	18353	0.5000	0.6128	
97 Bromobenzene	156	9.920	9.920	0.000	90	4753	0.5000	0.5341	
98 1,1,2,2-Tetrachloroethane	83	9.957	9.957	0.000	87	5053	0.5000	0.5974	
99 1,2,3-Trichloropropane	110	9.987	9.993	-0.006	0	1612	0.5000	0.5808	
101 trans-1,4-Dichloro-2-buten	53	9.999	10.005	-0.006	63	1902	0.5000	0.6994	
100 N-Propylbenzene	91	10.011	10.011	0.000	97	21408	0.5000	0.6110	
102 2-Chlorotoluene	126	10.109	10.109	0.000	95	4803	0.5000	0.6068	
104 1,3,5-Trimethylbenzene	105	10.188	10.188	0.000	92	15291	0.5000	0.6078	
105 4-Chlorotoluene	91	10.224	10.218	0.006	96	16403	0.5000	0.6713	
106 tert-Butylbenzene	134	10.504	10.504	0.000	89	3176	0.5000	0.5162	
108 1,2,4-Trimethylbenzene	105	10.559	10.559	0.000	93	15146	0.5000	0.5744	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.711	10.717	-0.006	94	18591	0.5000	0.5681	
110 1,3-Dichlorobenzene	146	10.845	10.845	0.000	95	10131	0.5000	0.5874	
111 4-Isopropyltoluene	119	10.857	10.857	0.000	97	19233	0.5000	0.6608	
113 1,4-Dichlorobenzene	146	10.936	10.930	0.006	34	10224	0.5000	0.5979	
115 n-Butylbenzene	91	11.240	11.240	0.000	97	15939	0.5000	0.6468	
116 1,2-Dichlorobenzene	146	11.277	11.277	0.000	92	8832	0.5000	0.5393	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	1	836	0.5000	1.06	
119 1,2,4-Trichlorobenzene	180	12.688	12.688	0.000	6	5912	0.5000	0.6332	
120 Hexachlorobutadiene	225	12.810	12.810	0.000	86	2001	0.5000	0.4883	
121 Naphthalene	128	12.895	12.895	0.000	55	14707	0.5000	0.5580	
122 1,2,3-Trichlorobenzene	180	13.102	13.102	0.000	93	5372	0.5000	0.6253	
S 125 Total BTEX	1				0			3.06	
S 126 Xylenes, Total	1				0			1.18	
S 123 1,3-Dichloropropene, Total	1				0			1.06	
S 124 1,2-Dichloroethene, Total	1				0			1.13	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

8260 CORP mix_00083	Amount Added:	0.50	Units: uL	
GAS CORP mix_00182	Amount Added:	0.50	Units: uL	
N_8260_Surr_00208	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00036	Amount Added:	1.00	Units: uL	Run Reagent

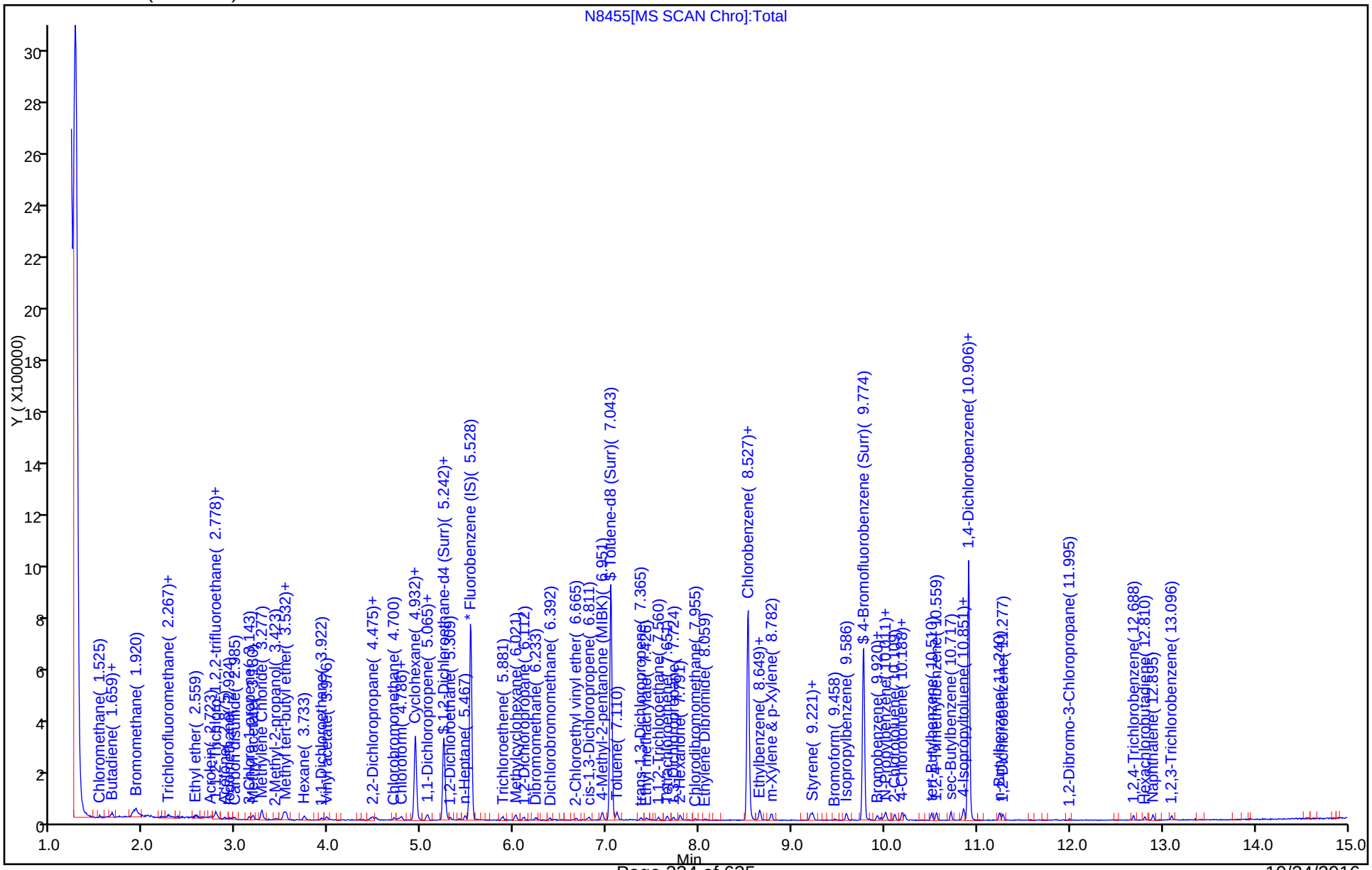
Report Date: 10-Oct-2016 13:13:56 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8455.D

Injection Date:	05-Oct-2016 22:54:30	Instrument ID:	HP5973N	Operator ID:	SO
Lims ID:	IC 0.5			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8456.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 05-Oct-2016 23:21:30 ALS Bottle#: 33 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 480-0057013-005
Operator ID: SO Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 10-Oct-2016 13:13:57 Calib Date: 06-Oct-2016 06:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK038

First Level Reviewer: gentilej Date: 06-Oct-2016 12:56:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.528	5.528	0.000	99	117093	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.527	8.527	0.000	85	453623	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.906	10.906	0.000	94	261338	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.938	4.932	0.006	93	164276	25.0	24.7	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.242	5.242	0.000	0	180229	25.0	25.0	
$ 6 Toluene-d8 (Surr)	98	7.043	7.043	0.000	93	546236	25.0	24.7	
$ 7 4-Bromofluorobenzene (Surr	174	9.774	9.774	0.000	95	198554	25.0	24.6	
11 Dichlorodifluoromethane	85	1.379	1.379	0.000	94	6578	1.00	1.08	
13 Chloromethane	50	1.525	1.531	-0.006	96	10518	1.00	1.22	
14 Vinyl chloride	62	1.640	1.647	-0.007	97	7853	1.00	1.11	
144 Butadiene	54	1.659	1.665	-0.006	93	9038	1.00	1.28	
15 Bromomethane	94	1.945	1.939	0.006	62	6445	1.00	1.29	
16 Chloroethane	64	2.048	2.042	0.006	50	5711	1.00	1.30	
17 Dichlorofluoromethane	67	2.261	2.261	0.000	95	12756	1.00	1.20	
18 Trichlorofluoromethane	101	2.297	2.285	0.012	53	7358	1.00	0.8900	
19 Ethyl ether	59	2.565	2.565	0.000	87	6793	1.00	1.08	
20 Acrolein	56	2.723	2.723	0.000	93	9313	5.00	4.28	M
22 1,1-Dichloroethene	96	2.778	2.778	0.000	96	6482	1.00	1.04	
21 1,1,2-Trichloro-1,2,2-trif	101	2.778	2.784	-0.006	70	5620	1.00	0.9223	
23 Acetone	43	2.875	2.875	0.000	85	14272	5.00	5.40	
24 Iodomethane	142	2.930	2.930	0.000	98	12535	1.00	1.06	
25 Carbon disulfide	76	2.979	2.979	0.000	100	20447	1.00	1.03	
27 3-Chloro-1-propene	41	3.143	3.137	0.006	91	14595	1.00	1.22	
28 Methyl acetate	43	3.186	3.180	0.006	97	35299	5.00	5.28	
30 Methylene Chloride	84	3.283	3.277	0.006	93	18958	1.00	0.8165	
31 2-Methyl-2-propanol	59	3.429	3.429	0.000	96	9783	10.0	9.43	
32 Methyl tert-butyl ether	73	3.508	3.508	0.000	96	22865	1.00	1.04	
33 trans-1,2-Dichloroethene	96	3.514	3.520	-0.006	69	7477	1.00	1.05	
34 Acrylonitrile	53	3.539	3.539	-0.001	95	32823	10.0	9.87	
35 Hexane	57	3.739	3.733	0.006	91	9355	1.00	1.03	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.928	3.922	0.006	94	12464	1.00	1.03	
39 Vinyl acetate	43	3.977	3.977	0.000	97	31139	2.00	2.13	
42 2,2-Dichloropropane	77	4.451	4.451	0.000	77	7255	1.00	1.08	
43 cis-1,2-Dichloroethene	96	4.469	4.469	0.000	78	9176	1.00	1.13	
44 2-Butanone (MEK)	43	4.506	4.500	0.006	98	19566	5.00	5.35	
47 Chlorobromomethane	128	4.707	4.707	0.000	83	4404	1.00	1.07	
49 Tetrahydrofuran	42	4.743	4.737	0.006	84	7518	2.00	1.99	
50 Chloroform	83	4.780	4.780	0.000	93	13980	1.00	1.14	
51 1,1,1-Trichloroethane	97	4.919	4.913	0.006	92	10542	1.00	1.08	
52 Cyclohexane	56	4.938	4.938	0.000	33	10734	1.00	1.00	
53 Carbon tetrachloride	117	5.053	5.059	-0.006	93	8983	1.00	1.01	
54 1,1-Dichloropropene	75	5.065	5.066	-0.001	90	8320	1.00	1.01	
56 Isobutyl alcohol	43	5.248	5.242	0.006	43	11291	25.0	27.3	
55 Benzene	78	5.266	5.266	0.000	95	26487	1.00	1.04	
57 1,2-Dichloroethane	62	5.315	5.315	0.000	94	10079	1.00	1.07	
59 n-Heptane	43	5.467	5.473	-0.006	81	9587	1.00	0.9334	
60 Trichloroethene	95	5.881	5.875	0.006	95	6312	1.00	0.9670	
62 Methylcyclohexane	83	6.021	6.021	0.000	90	12117	1.00	1.05	
63 1,2-Dichloropropane	63	6.100	6.100	0.000	93	7068	1.00	1.19	
64 Dibromomethane	93	6.234	6.234	0.000	85	3985	1.00	0.9571	
66 1,4-Dioxane	88	6.240	6.246	-0.006	1	1317	20.0	18.5	M
67 Dichlorobromomethane	83	6.386	6.386	0.000	96	7708	1.00	0.9605	
69 2-Chloroethyl vinyl ether	63	6.672	6.666	0.006	82	3351	1.00	0.8852	
71 cis-1,3-Dichloropropene	75	6.805	6.805	0.000	92	10423	1.00	1.07	
72 4-Methyl-2-pentanone (MIBK	58	6.957	6.951	0.006	96	13202	5.00	4.85	
73 Toluene	92	7.110	7.110	0.000	99	16646	1.00	1.06	
75 trans-1,3-Dichloropropene	75	7.371	7.371	0.000	96	8280	1.00	0.9894	
77 Ethyl methacrylate	69	7.432	7.432	0.000	84	7180	1.00	1.00	
78 1,1,2-Trichloroethane	83	7.560	7.554	0.006	84	4611	1.00	1.02	
79 Tetrachloroethene	166	7.651	7.651	0.000	91	7471	1.00	1.03	
80 1,3-Dichloropropane	76	7.712	7.724	-0.012	88	8634	1.00	0.9596	
82 2-Hexanone	43	7.791	7.791	0.000	97	23059	5.00	5.09	
83 Chlorodibromomethane	129	7.955	7.961	-0.006	84	6693	1.00	1.02	
84 Ethylene Dibromide	107	8.065	8.065	0.000	97	5702	1.00	0.9294	
85 Chlorobenzene	112	8.557	8.558	-0.001	95	19081	1.00	1.06	
89 1,1,1,2-Tetrachloroethane	131	8.649	8.649	0.000	45	5977	1.00	0.9136	
88 Ethylbenzene	91	8.649	8.655	-0.006	97	29651	1.00	1.05	
90 m-Xylene & p-Xylene	106	8.776	8.777	-0.001	0	12314	1.00	1.04	
91 o-Xylene	106	9.208	9.202	0.006	95	12223	1.00	1.01	
92 Styrene	104	9.227	9.227	0.000	95	20933	1.00	1.06	
93 Bromoform	173	9.458	9.458	0.000	42	3564	1.00	0.8793	
95 Isopropylbenzene	105	9.586	9.592	-0.006	94	28929	1.00	0.9874	
97 Bromobenzene	156	9.926	9.920	0.006	90	9062	1.00	1.04	
98 1,1,2,2-Tetrachloroethane	83	9.963	9.957	0.006	89	8539	1.00	1.03	
99 1,2,3-Trichloropropane	110	9.993	9.993	0.000	43	2385	1.00	0.8784	
101 trans-1,4-Dichloro-2-buten	53	10.005	10.005	0.000	40	2989	1.00	1.12	
100 N-Propylbenzene	91	10.011	10.011	0.000	98	36036	1.00	1.05	
102 2-Chlorotoluene	126	10.115	10.109	0.006	97	7537	1.00	0.9734	
104 1,3,5-Trimethylbenzene	105	10.188	10.188	0.000	95	25203	1.00	1.02	
105 4-Chlorotoluene	91	10.224	10.218	0.006	96	22810	1.00	0.9542	
106 tert-Butylbenzene	134	10.510	10.504	0.006	90	5918	1.00	0.9833	
108 1,2,4-Trimethylbenzene	105	10.559	10.559	0.000	96	28002	1.00	1.09	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.717	10.717	0.000	93	32973	1.00	1.03	
110 1,3-Dichlorobenzene	146	10.845	10.845	0.000	94	17558	1.00	1.04	
111 4-Isopropyltoluene	119	10.857	10.857	0.000	97	28130	1.00	0.9880	
113 1,4-Dichlorobenzene	146	10.930	10.930	0.000	96	17045	1.00	1.02	
115 n-Butylbenzene	91	11.240	11.240	0.000	97	25117	1.00	1.04	
116 1,2-Dichlorobenzene	146	11.277	11.277	0.000	98	16980	1.00	1.06	
117 1,2-Dibromo-3-Chloropropan	75	12.001	11.995	0.006	1	805	1.00	1.06	M
119 1,2,4-Trichlorobenzene	180	12.688	12.688	0.000	93	8883	1.00	0.9726	
120 Hexachlorobutadiene	225	12.816	12.810	0.006	91	4036	1.00	1.01	
121 Naphthalene	128	12.895	12.895	0.000	62	25225	1.00	0.9784	
122 1,2,3-Trichlorobenzene	180	13.102	13.102	0.000	92	8080	1.00	0.9615	
S 125 Total BTEX	1				0			5.19	
S 126 Xylenes, Total	1				0			2.04	
S 123 1,3-Dichloropropene, Total	1				0			2.06	
S 124 1,2-Dichloroethene, Total	1				0			2.17	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00083	Amount Added:	1.00	Units: uL	
GAS CORP mix_00182	Amount Added:	1.00	Units: uL	
N_8260_Surr_00208	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00036	Amount Added:	1.00	Units: uL	Run Reagent

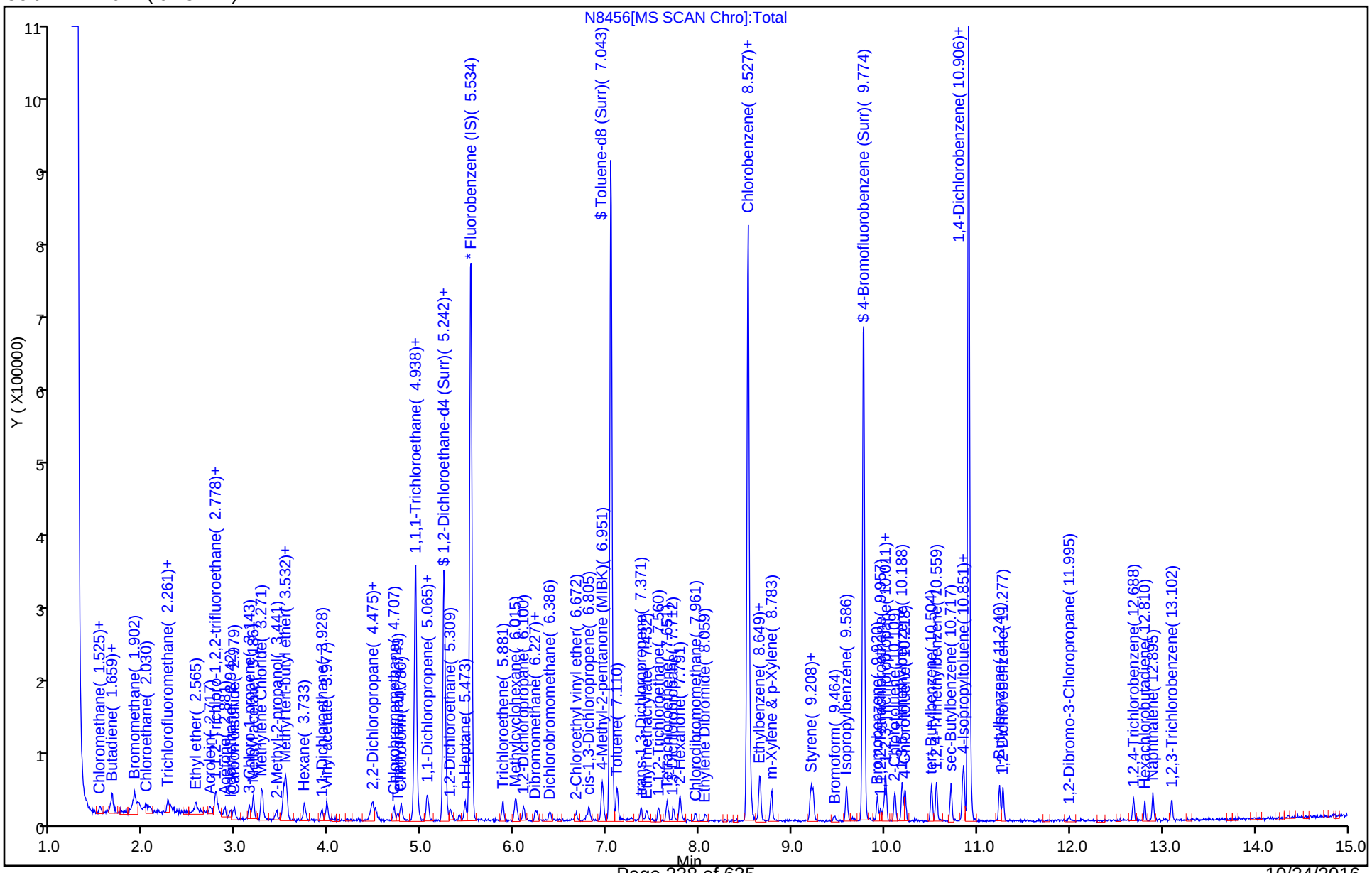
Report Date: 10-Oct-2016 13:13:58 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8456.D

Injection Date:	05-Oct-2016 23:21:30	Instrument ID:	HP5973N	Operator ID:	SO
Lims ID:	IC			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	33
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

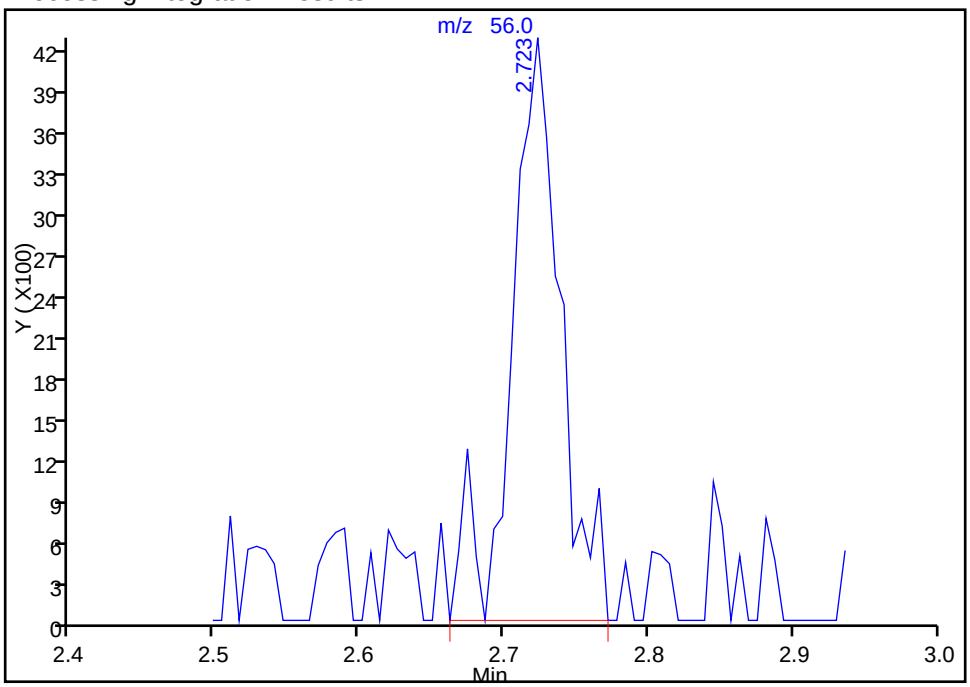
Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8456.D				
Injection Date:	05-Oct-2016 23:21:30	Instrument ID:	HP5973N		
Lims ID:	IC				
Client ID:					
Operator ID:	SO	ALS Bottle#:	33	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

20 Acrolein, CAS: 107-02-8

Signal: 1

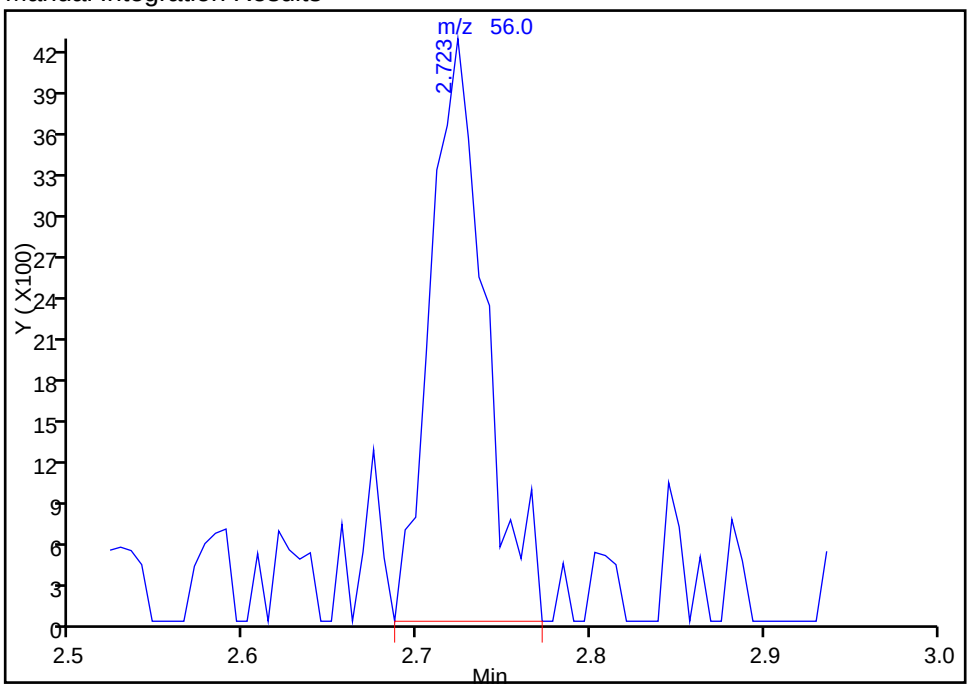
Processing Integration Results

RT: 2.72
Area: 10123
Amount: 4.576525
Amount Units: ug/L



Manual Integration Results

RT: 2.72
Area: 9313
Amount: 4.280964
Amount Units: ug/L



Reviewer: gentilej, 06-Oct-2016 13:41:45

Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

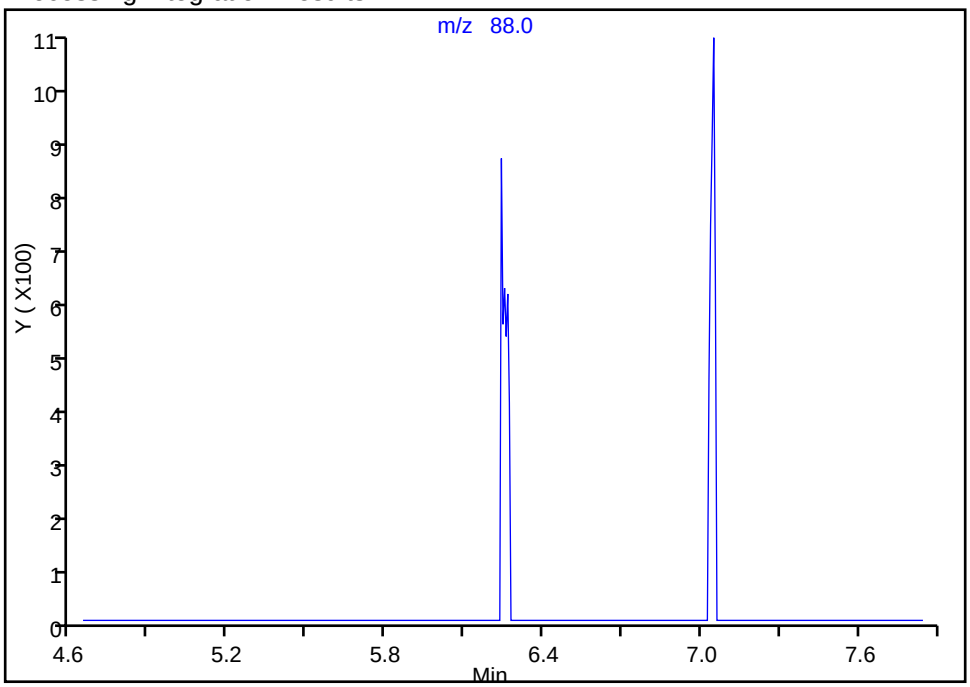
Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8456.D				
Injection Date:	05-Oct-2016 23:21:30	Instrument ID:	HP5973N		
Lims ID:	IC				
Client ID:					
Operator ID:	SO	ALS Bottle#:	33	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

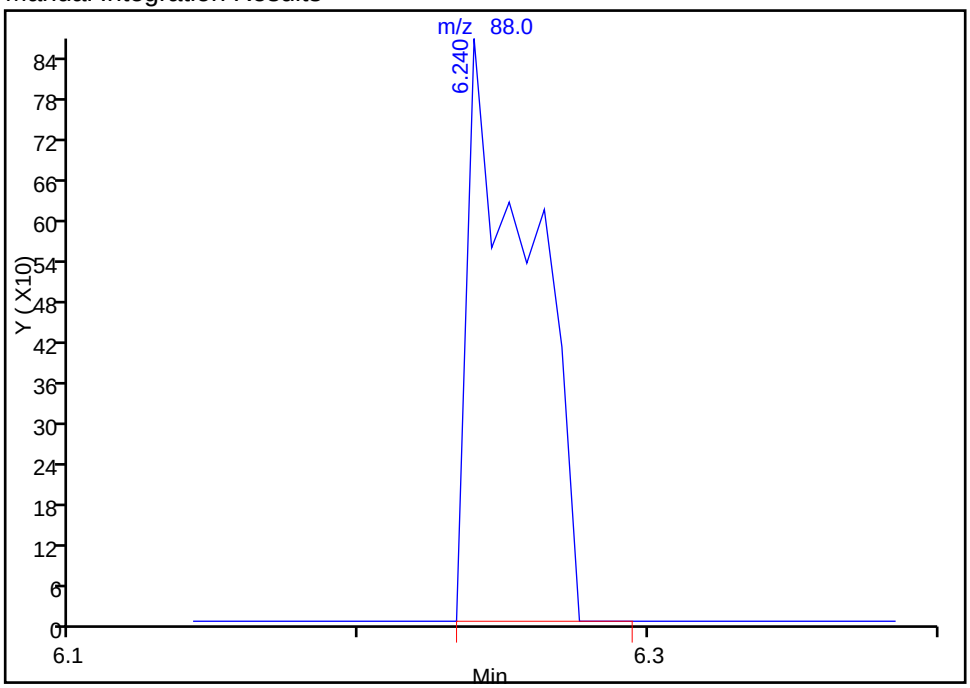
Processing Integration Results

Not Detected
Expected RT: 6.25



Manual Integration Results

RT: 6.24
Area: 1317
Amount: 18.510897
Amount Units: ug/L



Reviewer: gentilej, 06-Oct-2016 12:56:44
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

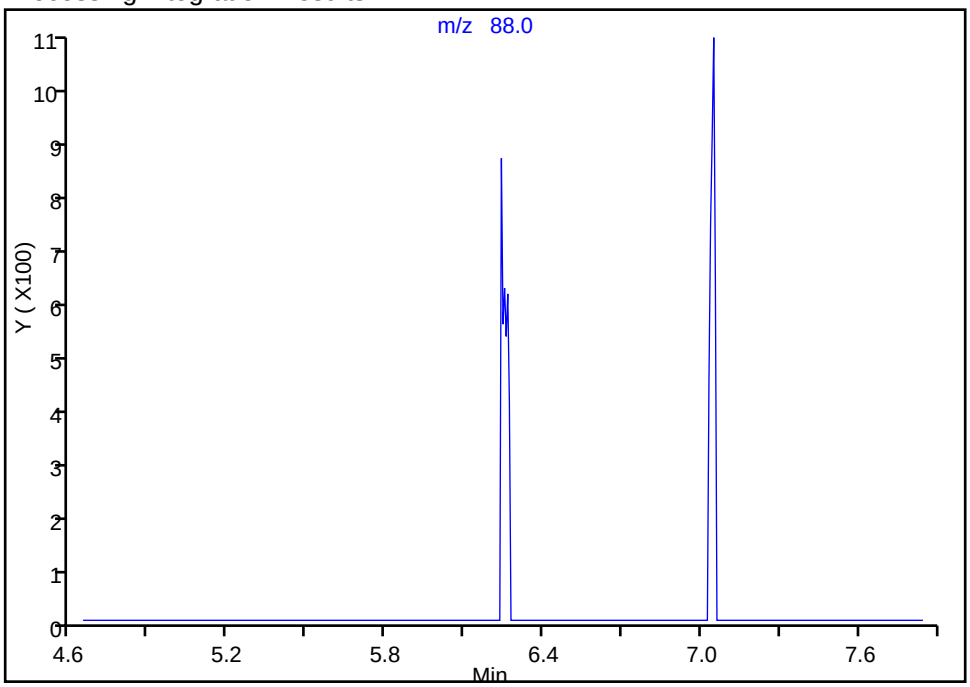
Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8456.D				
Injection Date:	05-Oct-2016 23:21:30	Instrument ID:	HP5973N		
Lims ID:	IC				
Client ID:					
Operator ID:	SO	ALS Bottle#:	33	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

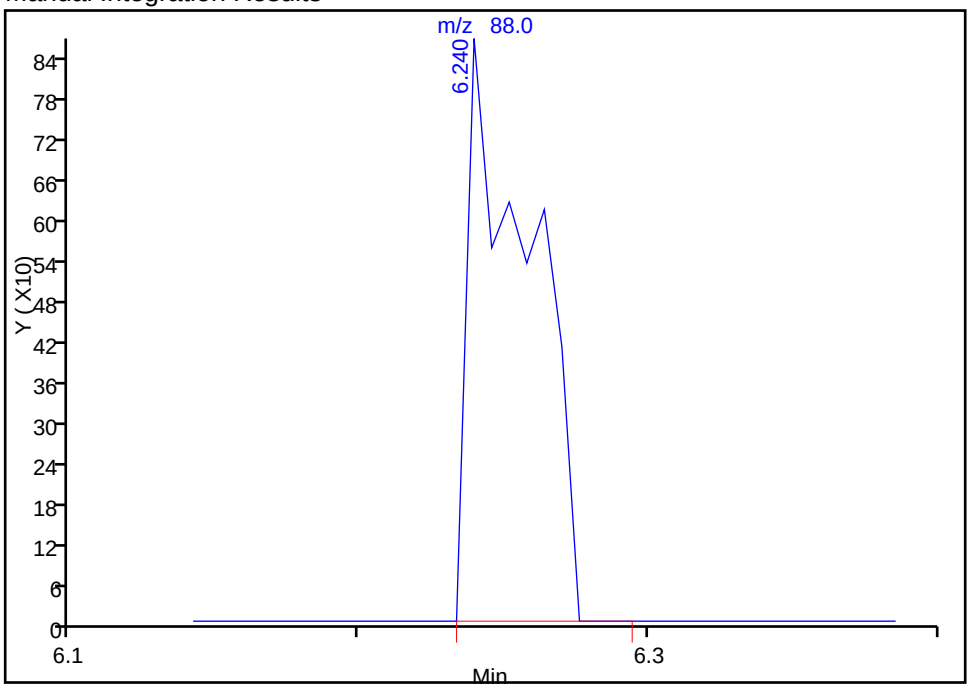
Processing Integration Results

Not Detected
Expected RT: 6.25



Manual Integration Results

RT: 6.24
Area: 1317
Amount: 18.510897
Amount Units: ug/L



Reviewer: gentilej, 06-Oct-2016 12:56:44
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

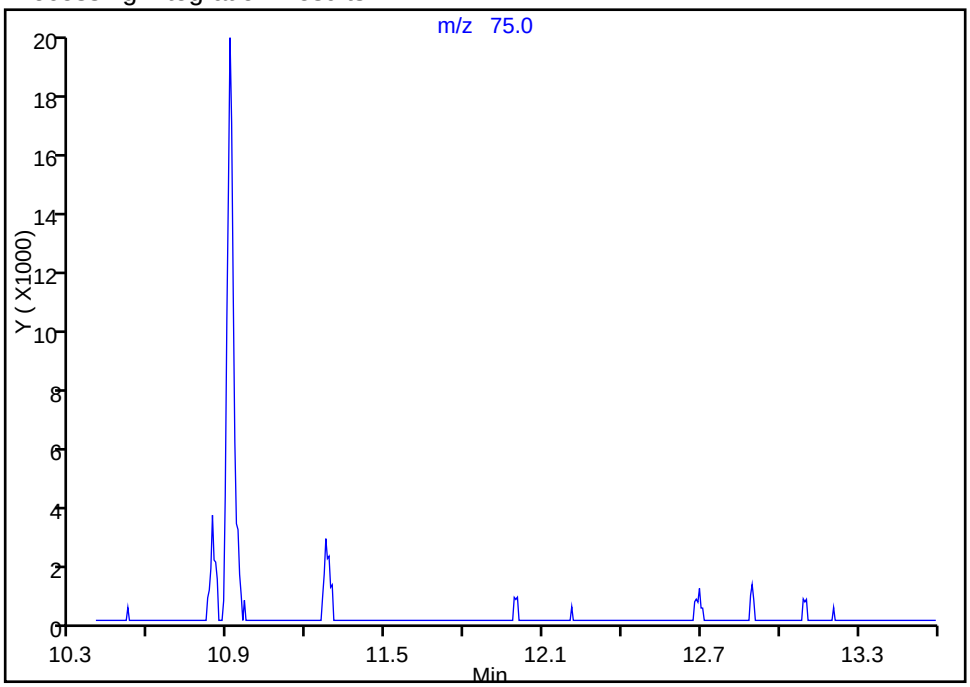
Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8456.D				
Injection Date:	05-Oct-2016 23:21:30	Instrument ID:	HP5973N		
Lims ID:	IC				
Client ID:					
Operator ID:	SO	ALS Bottle#:	33	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

117 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Signal: 1

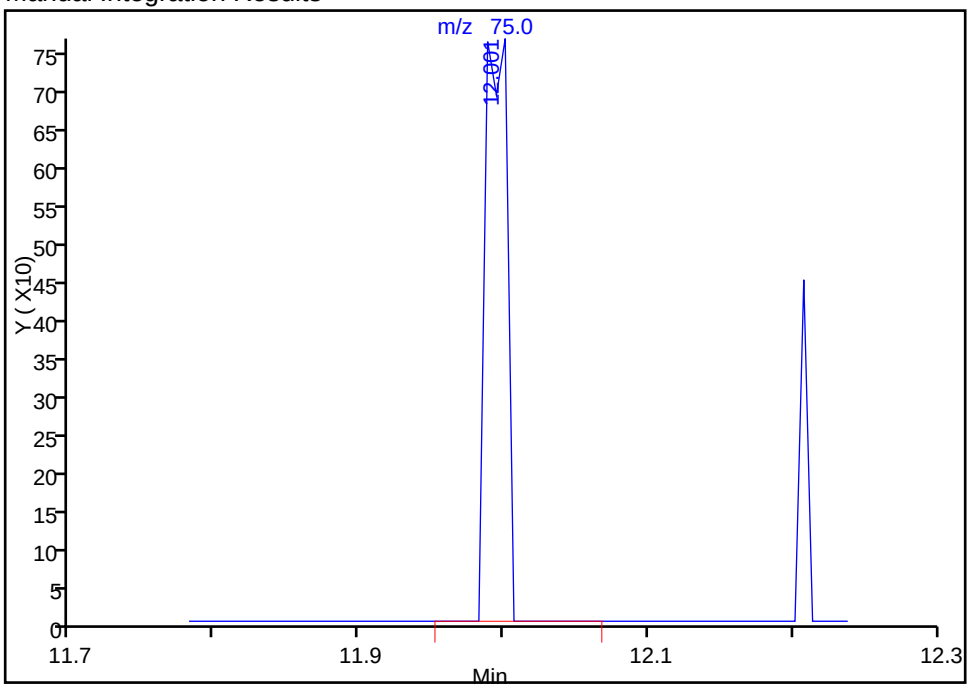
Not Detected
Expected RT: 11.99

Processing Integration Results



RT: 12.00
Area: 805
Amount: 1.055374
Amount Units: ug/L

Manual Integration Results



Reviewer: gentilej, 06-Oct-2016 12:56:44
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

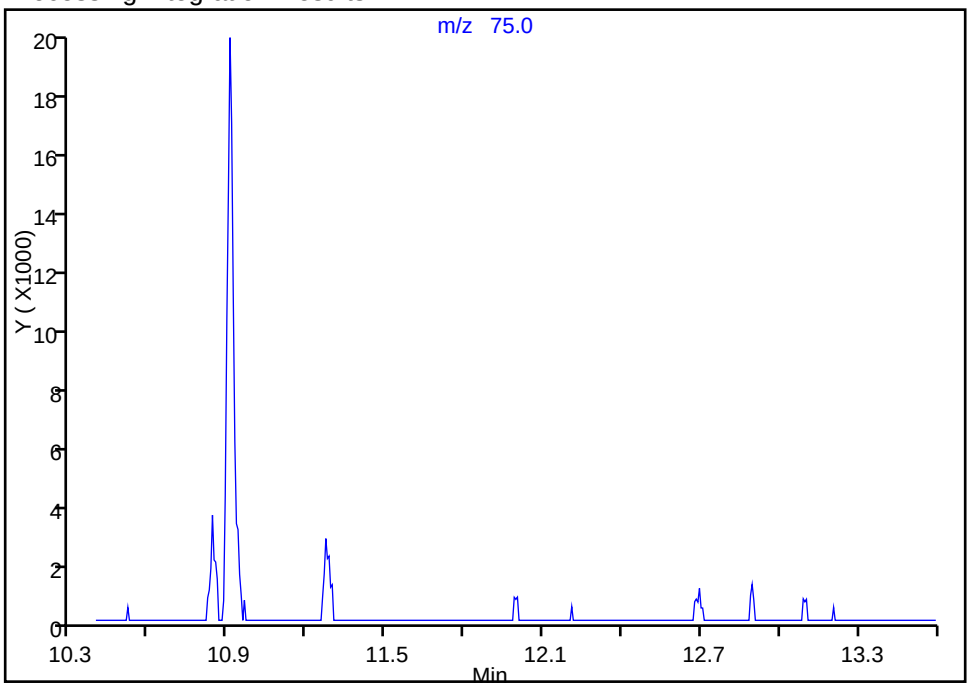
Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8456.D				
Injection Date:	05-Oct-2016 23:21:30	Instrument ID:	HP5973N		
Lims ID:	IC				
Client ID:					
Operator ID:	SO	ALS Bottle#:	33	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

117 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Signal: 1

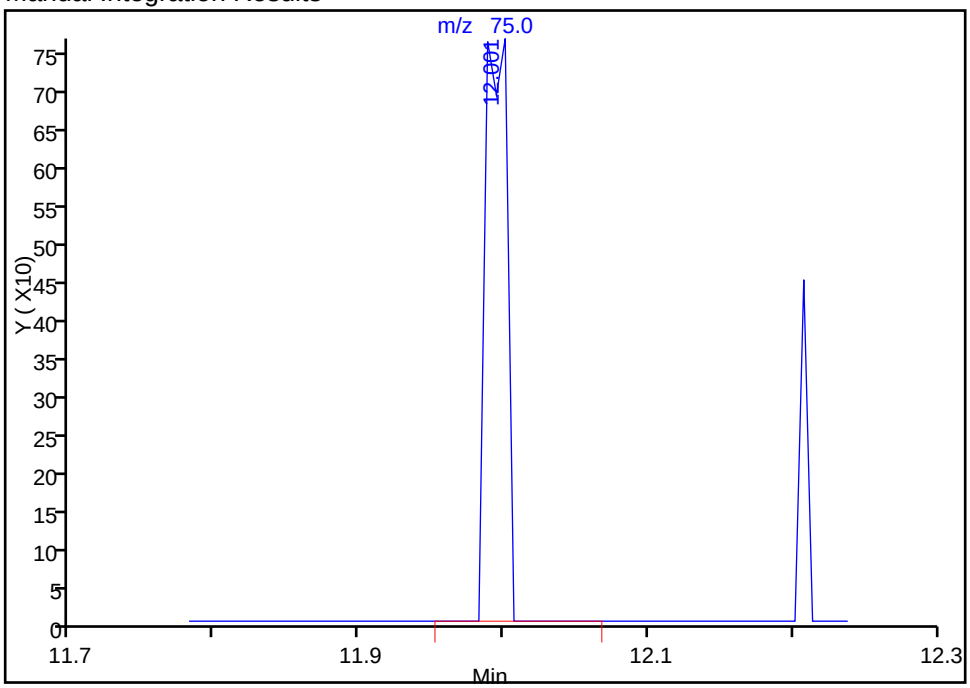
Processing Integration Results

Not Detected
Expected RT: 11.99



Manual Integration Results

RT: 12.00
Area: 805
Amount: 1.055374
Amount Units: ug/L



Reviewer: gentilej, 06-Oct-2016 12:56:44
Audit Action: Manually Integrated Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8457.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 05-Oct-2016 23:48:30 ALS Bottle#: 34 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 2
Misc. Info.: 480-0057013-006
Operator ID: SO Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 10-Oct-2016 13:13:59 Calib Date: 06-Oct-2016 06:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK038

First Level Reviewer: gentilej Date: 06-Oct-2016 12:57:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.528	5.528	0.000	99	113446	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.527	8.527	0.000	85	460994	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.906	10.906	0.000	94	269511	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.932	4.932	0.000	92	174225	25.0	27.1	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.242	5.242	0.000	0	184298	25.0	26.4	
$ 6 Toluene-d8 (Surr)	98	7.043	7.043	0.000	93	549380	25.0	24.4	
$ 7 4-Bromofluorobenzene (Surr	174	9.774	9.774	0.000	96	206413	25.0	25.2	
11 Dichlorodifluoromethane	85	1.379	1.379	0.000	95	10571	2.00	1.80	
13 Chloromethane	50	1.525	1.531	-0.006	100	16785	2.00	2.01	
14 Vinyl chloride	62	1.640	1.647	-0.007	97	13976	2.00	2.03	
144 Butadiene	54	1.665	1.665	0.000	96	14207	2.00	2.08	
15 Bromomethane	94	1.945	1.939	0.006	89	9351	2.00	1.94	
16 Chloroethane	64	2.042	2.042	0.000	96	7828	2.00	1.85	
17 Dichlorofluoromethane	67	2.261	2.261	0.000	97	21628	2.00	2.10	
18 Trichlorofluoromethane	101	2.279	2.285	-0.006	88	15273	2.00	1.91	
19 Ethyl ether	59	2.559	2.565	-0.006	89	13666	2.00	2.24	
20 Acrolein	56	2.711	2.723	-0.012	96	14730	10.0	9.41	
22 1,1-Dichloroethene	96	2.772	2.778	-0.006	97	12203	2.00	2.02	
21 1,1,2-Trichloro-1,2,2-trif	101	2.784	2.784	0.000	71	11501	2.00	1.95	
23 Acetone	43	2.869	2.875	-0.006	100	26948	10.0	10.5	
24 Iodomethane	142	2.924	2.930	-0.006	98	23053	2.00	2.01	
25 Carbon disulfide	76	2.973	2.979	-0.006	99	35017	2.00	1.82	
27 3-Chloro-1-propene	41	3.137	3.137	0.000	92	26705	2.00	2.30	
28 Methyl acetate	43	3.180	3.180	0.000	98	69026	10.0	10.6	
30 Methylene Chloride	84	3.277	3.277	0.000	92	26752	2.00	2.11	
31 2-Methyl-2-propanol	59	3.429	3.429	0.000	97	19368	20.0	19.3	
32 Methyl tert-butyl ether	73	3.502	3.508	-0.006	97	46350	2.00	2.17	
33 trans-1,2-Dichloroethene	96	3.514	3.520	-0.006	66	13746	2.00	1.98	
34 Acrylonitrile	53	3.539	3.539	0.000	100	70499	20.0	21.9	
35 Hexane	57	3.739	3.733	0.006	95	16091	2.00	1.82	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.922	3.922	0.000	96	24930	2.00	2.13	
39 Vinyl acetate	43	3.977	3.977	0.000	97	56699	4.00	4.00	
42 2,2-Dichloropropane	77	4.457	4.451	0.006	89	14495	2.00	2.22	
43 cis-1,2-Dichloroethene	96	4.475	4.469	0.006	83	16560	2.00	2.10	
44 2-Butanone (MEK)	43	4.506	4.500	0.006	98	39938	10.0	11.3	
47 Chlorobromomethane	128	4.701	4.707	-0.007	89	8288	2.00	2.08	
49 Tetrahydrofuran	42	4.749	4.737	0.012	85	11445	4.00	3.74	
50 Chloroform	83	4.780	4.780	0.000	95	25601	2.00	2.15	
51 1,1,1-Trichloroethane	97	4.913	4.913	0.000	98	18178	2.00	1.92	
52 Cyclohexane	56	4.938	4.938	0.000	36	19697	2.00	1.89	
53 Carbon tetrachloride	117	5.053	5.059	-0.006	91	16729	2.00	1.95	
54 1,1-Dichloropropene	75	5.066	5.066	0.000	87	14796	2.00	1.85	
56 Isobutyl alcohol	43	5.254	5.242	0.012	41	21498	50.0	53.7	
55 Benzene	78	5.266	5.266	0.000	94	53940	2.00	2.18	
57 1,2-Dichloroethane	62	5.309	5.315	-0.006	96	20349	2.00	2.22	
59 n-Heptane	43	5.467	5.473	-0.006	92	16415	2.00	1.83	
60 Trichloroethene	95	5.875	5.875	0.000	96	12950	2.00	2.05	
62 Methylcyclohexane	83	6.015	6.021	-0.006	91	20901	2.00	1.87	
63 1,2-Dichloropropane	63	6.106	6.100	0.006	89	11214	2.00	1.95	
64 Dibromomethane	93	6.234	6.234	0.000	91	8352	2.00	2.07	
66 1,4-Dioxane	88	6.252	6.246	0.006	1	2581	40.0	35.7	M
67 Dichlorobromomethane	83	6.386	6.386	0.000	97	15911	2.00	2.05	
69 2-Chloroethyl vinyl ether	63	6.672	6.666	0.006	91	7580	2.00	2.07	
71 cis-1,3-Dichloropropene	75	6.805	6.805	0.000	92	19710	2.00	2.09	
72 4-Methyl-2-pentanone (MIBK	58	6.951	6.951	0.000	96	26896	10.0	9.72	
73 Toluene	92	7.110	7.110	0.000	99	32416	2.00	2.03	
75 trans-1,3-Dichloropropene	75	7.365	7.371	-0.006	93	16518	2.00	1.94	
77 Ethyl methacrylate	69	7.426	7.432	-0.006	90	13505	2.00	1.86	
78 1,1,2-Trichloroethane	83	7.560	7.554	0.006	89	8715	2.00	1.89	
79 Tetrachloroethene	166	7.651	7.651	0.000	92	13456	2.00	1.83	
80 1,3-Dichloropropane	76	7.718	7.724	-0.006	92	18630	2.00	2.04	
82 2-Hexanone	43	7.791	7.791	0.000	96	46865	10.0	10.2	
83 Chlorodibromomethane	129	7.955	7.961	-0.006	87	12591	2.00	1.90	
84 Ethylene Dibromide	107	8.065	8.065	0.000	97	13193	2.00	2.12	
85 Chlorobenzene	112	8.557	8.558	-0.001	94	38434	2.00	2.11	
89 1,1,1,2-Tetrachloroethane	131	8.649	8.649	0.000	45	12746	2.00	1.92	
88 Ethylbenzene	91	8.655	8.655	0.000	98	56348	2.00	1.96	
90 m-Xylene & p-Xylene	106	8.777	8.777	-0.001	0	23829	2.00	1.98	
91 o-Xylene	106	9.202	9.202	0.000	96	24869	2.00	2.02	
92 Styrene	104	9.221	9.227	-0.006	94	36909	2.00	1.84	
93 Bromoform	173	9.458	9.458	0.000	90	7351	2.00	1.78	
95 Isopropylbenzene	105	9.586	9.592	-0.006	94	56979	2.00	1.89	
97 Bromobenzene	156	9.926	9.920	0.006	88	17068	2.00	1.90	
98 1,1,2,2-Tetrachloroethane	83	9.957	9.957	0.000	94	17742	2.00	2.08	
99 1,2,3-Trichloropropane	110	9.993	9.993	0.000	61	5450	2.00	1.95	
101 trans-1,4-Dichloro-2-buten	53	10.005	10.005	0.000	40	5573	2.00	2.03	
100 N-Propylbenzene	91	10.011	10.011	0.000	98	67395	2.00	1.91	
102 2-Chlorotoluene	126	10.109	10.109	0.000	98	16379	2.00	2.05	
104 1,3,5-Trimethylbenzene	105	10.188	10.188	0.000	93	48275	2.00	1.90	
105 4-Chlorotoluene	91	10.218	10.218	0.000	95	49586	2.00	2.01	
106 tert-Butylbenzene	134	10.504	10.504	0.000	91	11239	2.00	1.81	
108 1,2,4-Trimethylbenzene	105	10.559	10.559	0.000	96	50056	2.00	1.88	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.717	10.717	0.000	93	62232	2.00	1.89	
110 1,3-Dichlorobenzene	146	10.845	10.845	0.000	98	33564	2.00	1.93	
111 4-Isopropyltoluene	119	10.857	10.857	0.000	97	57398	2.00	1.95	
113 1,4-Dichlorobenzene	146	10.930	10.930	0.000	96	35786	2.00	2.07	
115 n-Butylbenzene	91	11.240	11.240	0.000	97	47314	2.00	1.90	
116 1,2-Dichlorobenzene	146	11.277	11.277	0.000	97	32083	2.00	1.94	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	85	1927	2.00	1.75	
119 1,2,4-Trichlorobenzene	180	12.682	12.688	-0.006	94	18988	2.00	2.02	
120 Hexachlorobutadiene	225	12.810	12.810	0.000	94	7833	2.00	1.89	
121 Naphthalene	128	12.895	12.895	0.000	96	56340	2.00	2.12	
122 1,2,3-Trichlorobenzene	180	13.102	13.102	0.000	95	18353	2.00	2.12	
S 125 Total BTEX	1				0			10.2	
S 126 Xylenes, Total	1				0			3.99	
S 123 1,3-Dichloropropene, Total	1				0			4.03	
S 124 1,2-Dichloroethene, Total	1				0			4.08	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00083	Amount Added:	2.00	Units: uL	
GAS CORP mix_00182	Amount Added:	2.00	Units: uL	
N_8260_Surr_00208	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00036	Amount Added:	1.00	Units: uL	Run Reagent

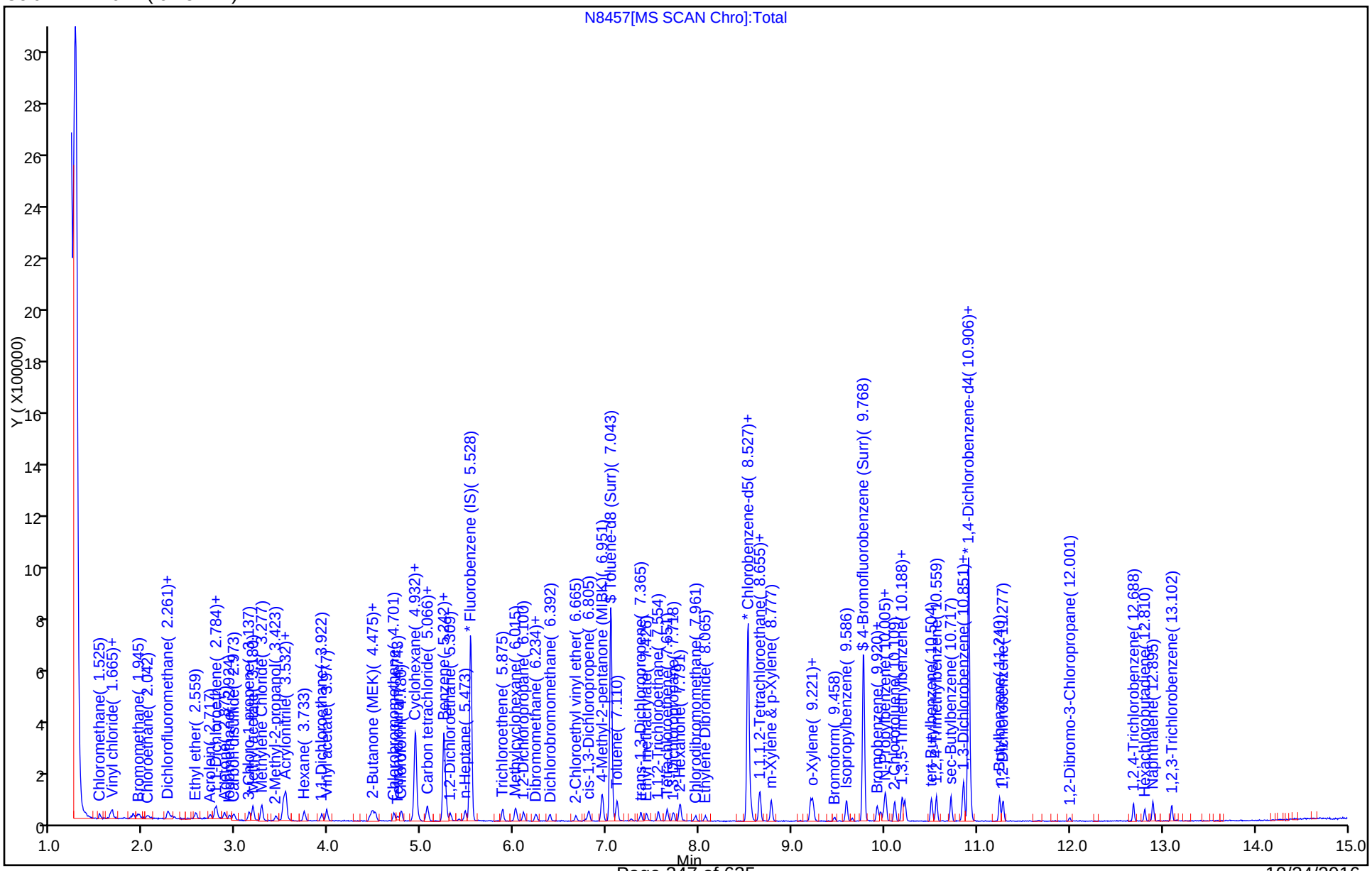
Report Date: 10-Oct-2016 13:14:00 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8457.D

Injection Date:	05-Oct-2016 23:48:30	Instrument ID:	HP5973N	Operator ID:	SO
Lims ID:	IC 2			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	34
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

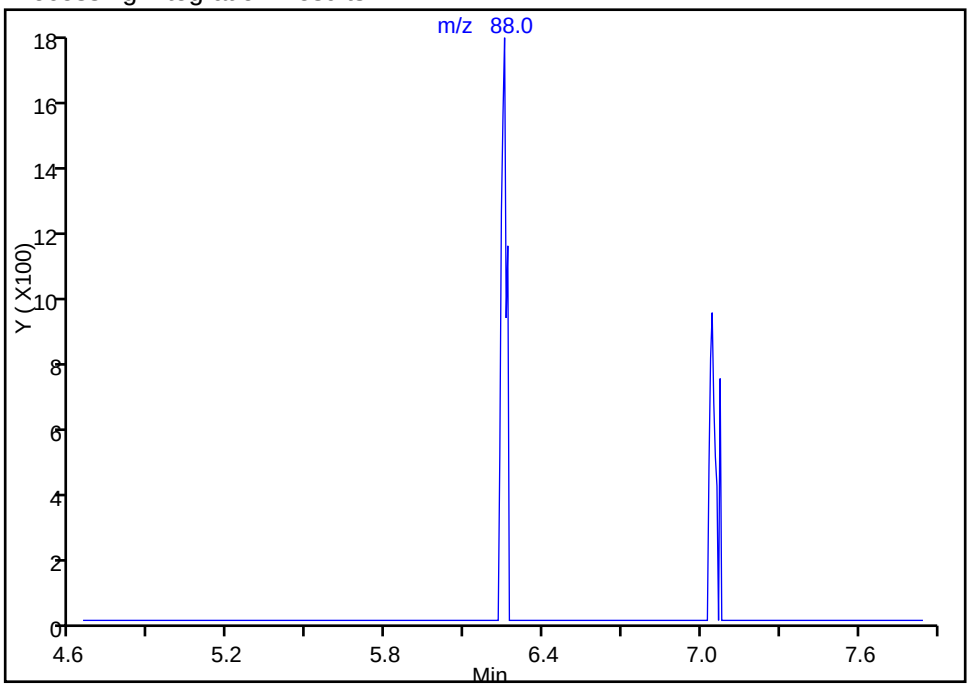
Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8457.D				
Injection Date:	05-Oct-2016 23:48:30	Instrument ID:	HP5973N		
Lims ID:	IC 2				
Client ID:					
Operator ID:	SO	ALS Bottle#:	34	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

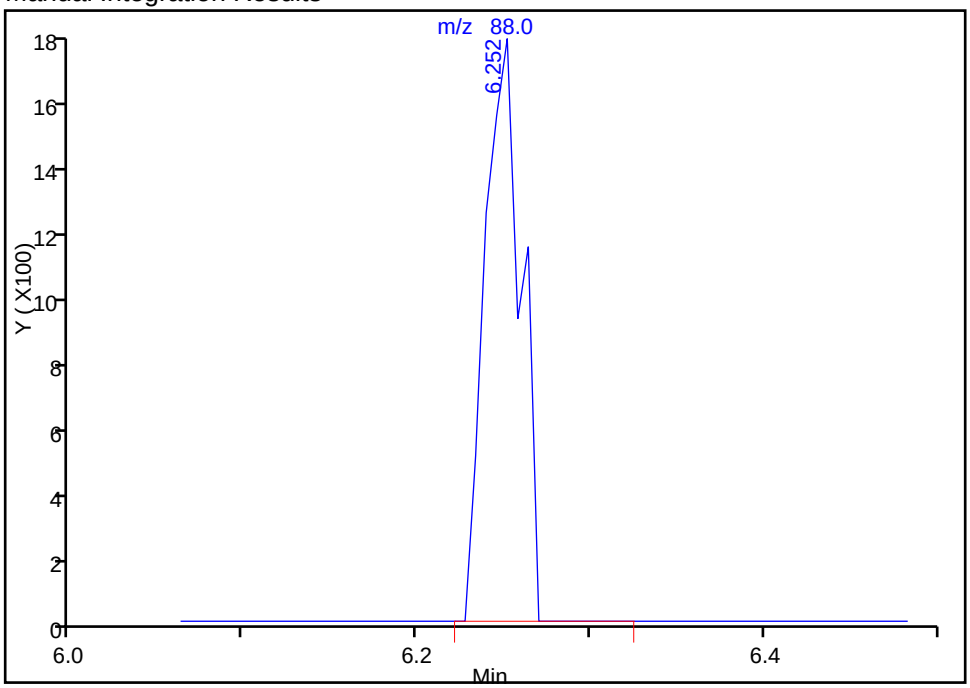
Processing Integration Results

Not Detected
Expected RT: 6.25



Manual Integration Results

RT: 6.25
Area: 2581
Amount: 35.696816
Amount Units: ug/L



Reviewer: gentilej, 06-Oct-2016 12:57:02
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

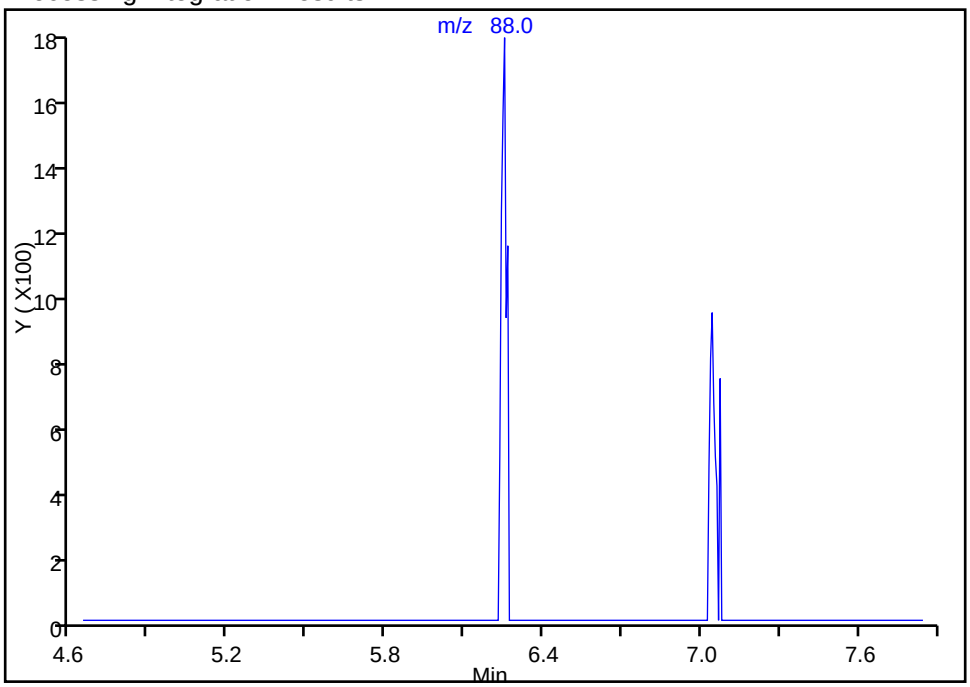
Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8457.D				
Injection Date:	05-Oct-2016 23:48:30	Instrument ID:	HP5973N		
Lims ID:	IC 2				
Client ID:					
Operator ID:	SO	ALS Bottle#:	34	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

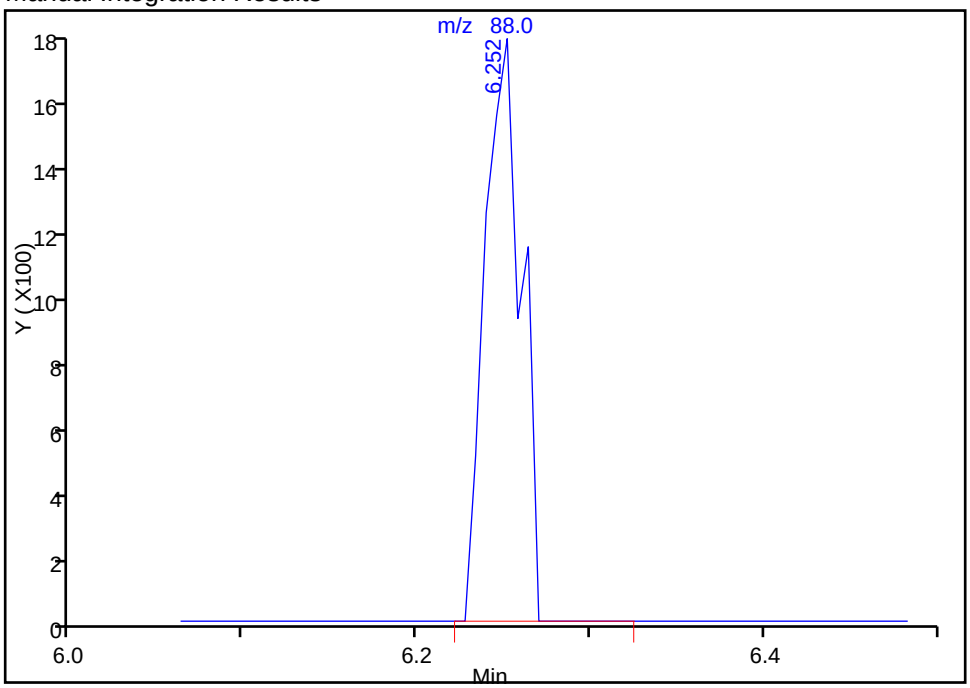
Processing Integration Results

Not Detected
Expected RT: 6.25



Manual Integration Results

RT: 6.25
Area: 2581
Amount: 35.696816
Amount Units: ug/L



Reviewer: gentilej, 06-Oct-2016 12:57:02
Audit Action: Manually Integrated Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8458.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 06-Oct-2016 00:14:30 ALS Bottle#: 35 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 3
Misc. Info.: 480-0057013-007
Operator ID: SO Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 10-Oct-2016 13:14:02 Calib Date: 06-Oct-2016 06:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK038

First Level Reviewer: gentilej Date: 06-Oct-2016 12:57:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.534	5.534	0.000	99	121618	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.527	8.527	0.000	85	475285	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.906	10.906	0.000	94	267387	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.938	4.938	0.000	94	166452	25.0	24.1	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.242	5.242	0.000	0	180897	25.0	24.1	
$ 6 Toluene-d8 (Surr)	98	7.043	7.043	0.000	93	591299	25.0	25.5	
$ 7 4-Bromofluorobenzene (Surr	174	9.774	9.774	0.000	95	215507	25.0	25.5	
11 Dichlorodifluoromethane	85	1.385	1.385	0.000	98	33760	5.00	5.35	
13 Chloromethane	50	1.531	1.531	0.000	100	47180	5.00	5.27	
14 Vinyl chloride	62	1.647	1.647	0.000	98	40347	5.00	5.48	
144 Butadiene	54	1.665	1.665	0.000	96	37989	5.00	5.18	
15 Bromomethane	94	1.945	1.945	0.000	93	25662	5.00	4.96	
16 Chloroethane	64	2.054	2.054	0.000	98	24650	5.00	5.42	
17 Dichlorofluoromethane	67	2.261	2.261	0.000	96	55880	5.00	5.06	
18 Trichlorofluoromethane	101	2.285	2.285	0.000	91	47135	5.00	5.49	
19 Ethyl ether	59	2.571	2.571	0.000	93	31056	5.00	4.76	
20 Acrolein	56	2.717	2.717	0.000	98	36373	25.0	26.7	M
22 1,1-Dichloroethene	96	2.778	2.778	0.000	98	33896	5.00	5.23	
21 1,1,2-Trichloro-1,2,2-trif	101	2.784	2.784	0.000	72	31510	5.00	4.98	
23 Acetone	43	2.882	2.882	0.000	100	69725	25.0	25.4	
24 Iodomethane	142	2.930	2.930	0.000	98	61551	5.00	5.01	
25 Carbon disulfide	76	2.979	2.979	0.000	100	106359	5.00	5.16	
27 3-Chloro-1-propene	41	3.143	3.143	0.000	89	60376	5.00	4.85	
28 Methyl acetate	43	3.180	3.180	0.000	98	163471	25.0	23.5	
30 Methylene Chloride	84	3.277	3.277	0.000	94	47608	5.00	4.82	
31 2-Methyl-2-propanol	59	3.435	3.435	0.000	98	52527	50.0	48.7	
32 Methyl tert-butyl ether	73	3.508	3.508	0.000	96	110685	5.00	4.83	
33 trans-1,2-Dichloroethene	96	3.520	3.520	0.000	97	38913	5.00	5.24	
34 Acrylonitrile	53	3.539	3.539	0.000	99	172160	50.0	49.9	
35 Hexane	57	3.739	3.739	0.000	94	52729	5.00	5.58	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.922	3.922	0.000	96	61134	5.00	4.87	
39 Vinyl acetate	43	3.977	3.977	0.000	98	158777	10.0	10.5	
42 2,2-Dichloropropane	77	4.451	4.451	0.000	88	34269	5.00	4.89	
43 cis-1,2-Dichloroethene	96	4.476	4.476	0.000	84	42075	5.00	4.98	
44 2-Butanone (MEK)	43	4.500	4.500	0.000	99	100835	25.0	26.5	
47 Chlorobromomethane	128	4.707	4.707	0.000	97	19802	5.00	4.64	
49 Tetrahydrofuran	42	4.737	4.737	0.000	84	27841	10.0	9.87	
50 Chloroform	83	4.780	4.780	0.000	97	63394	5.00	4.96	
51 1,1,1-Trichloroethane	97	4.914	4.914	0.000	97	50478	5.00	4.98	
52 Cyclohexane	56	4.938	4.938	0.000	51	60166	5.00	5.38	
53 Carbon tetrachloride	117	5.060	5.060	0.000	92	44171	5.00	4.80	
54 1,1-Dichloropropene	75	5.072	5.072	0.000	88	44945	5.00	5.25	
56 Isobutyl alcohol	43	5.248	5.248	0.000	52	55864	125.0	130.2	
55 Benzene	78	5.266	5.266	0.000	97	136272	5.00	5.14	
57 1,2-Dichloroethane	62	5.315	5.315	0.000	97	49580	5.00	5.05	
59 n-Heptane	43	5.467	5.467	0.000	93	51339	5.00	5.77	
60 Trichloroethene	95	5.875	5.875	0.000	97	35827	5.00	5.28	
62 Methylcyclohexane	83	6.015	6.015	0.000	90	60527	5.00	5.06	
63 1,2-Dichloropropane	63	6.100	6.100	0.000	85	30826	5.00	5.01	
64 Dibromomethane	93	6.234	6.234	0.000	89	20385	5.00	4.71	
66 1,4-Dioxane	88	6.252	6.252	0.000	1	8126	100.0	109.0	M
67 Dichlorobromomethane	83	6.386	6.386	0.000	98	40914	5.00	4.91	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	95	21728	5.00	5.53	
71 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	93	50267	5.00	4.97	
72 4-Methyl-2-pentanone (MIBK	58	6.952	6.952	0.000	98	76365	25.0	26.8	
73 Toluene	92	7.110	7.110	0.000	99	88778	5.00	5.39	
75 trans-1,3-Dichloropropene	75	7.371	7.371	0.000	96	44217	5.00	5.04	
77 Ethyl methacrylate	69	7.432	7.432	0.000	91	40681	5.00	5.43	
78 1,1,2-Trichloroethane	83	7.554	7.554	0.000	92	25959	5.00	5.47	
79 Tetrachloroethene	166	7.651	7.651	0.000	96	40130	5.00	5.29	
80 1,3-Dichloropropane	76	7.718	7.718	0.000	95	48960	5.00	5.19	
82 2-Hexanone	43	7.791	7.791	0.000	97	120738	25.0	25.4	
83 Chlorodibromomethane	129	7.955	7.955	0.000	90	33359	5.00	4.87	
84 Ethylene Dibromide	107	8.065	8.065	0.000	98	32532	5.00	5.06	
85 Chlorobenzene	112	8.558	8.558	0.000	96	97721	5.00	5.20	
89 1,1,1,2-Tetrachloroethane	131	8.649	8.649	0.000	92	35237	5.00	5.14	
88 Ethylbenzene	91	8.655	8.655	0.000	97	155057	5.00	5.23	
90 m-Xylene & p-Xylene	106	8.777	8.777	0.000	0	60621	5.00	4.88	
91 o-Xylene	106	9.202	9.202	0.000	95	65604	5.00	5.16	
92 Styrene	104	9.227	9.227	0.000	94	103850	5.00	5.03	
93 Bromoform	173	9.458	9.458	0.000	95	19774	5.00	4.66	
95 Isopropylbenzene	105	9.586	9.586	0.000	95	162781	5.00	5.43	
97 Bromobenzene	156	9.920	9.920	0.000	87	45760	5.00	5.14	
98 1,1,2,2-Tetrachloroethane	83	9.957	9.957	0.000	93	43964	5.00	5.19	
99 1,2,3-Trichloropropane	110	9.993	9.993	0.000	88	14361	5.00	5.17	
101 trans-1,4-Dichloro-2-buten	53	10.005	10.005	0.000	64	12841	5.00	4.72	
100 N-Propylbenzene	91	10.012	10.012	0.000	99	192015	5.00	5.47	
102 2-Chlorotoluene	126	10.109	10.109	0.000	96	41529	5.00	5.24	
104 1,3,5-Trimethylbenzene	105	10.188	10.188	0.000	94	134608	5.00	5.35	
105 4-Chlorotoluene	91	10.218	10.218	0.000	95	131015	5.00	5.36	
106 tert-Butylbenzene	134	10.504	10.504	0.000	91	33365	5.00	5.42	
108 1,2,4-Trimethylbenzene	105	10.559	10.559	0.000	96	143799	5.00	5.45	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.717	10.717	0.000	93	181240	5.00	5.53	
110 1,3-Dichlorobenzene	146	10.845	10.845	0.000	98	89933	5.00	5.21	
111 4-Isopropyltoluene	119	10.857	10.857	0.000	97	159739	5.00	5.48	
113 1,4-Dichlorobenzene	146	10.930	10.930	0.000	96	88478	5.00	5.17	
115 n-Butylbenzene	91	11.240	11.240	0.000	97	137014	5.00	5.56	
116 1,2-Dichlorobenzene	146	11.277	11.277	0.000	98	84117	5.00	5.13	
117 1,2-Dibromo-3-Chloropropan	75	11.989	11.989	0.000	89	6718	5.00	4.84	
119 1,2,4-Trichlorobenzene	180	12.688	12.688	0.000	93	49876	5.00	5.34	
120 Hexachlorobutadiene	225	12.810	12.810	0.000	96	22185	5.00	5.41	
121 Naphthalene	128	12.895	12.895	0.000	96	145418	5.00	5.51	
122 1,2,3-Trichlorobenzene	180	13.102	13.102	0.000	96	47110	5.00	5.48	
S 125 Total BTEX	1				0			25.8	
S 126 Xylenes, Total	1				0			10.0	
S 123 1,3-Dichloropropene, Total	1				0			10.0	
S 124 1,2-Dichloroethene, Total	1				0			10.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00083	Amount Added:	5.00	Units: uL	
GAS CORP mix_00182	Amount Added:	5.00	Units: uL	
N_8260_Surr_00208	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00036	Amount Added:	1.00	Units: uL	Run Reagent

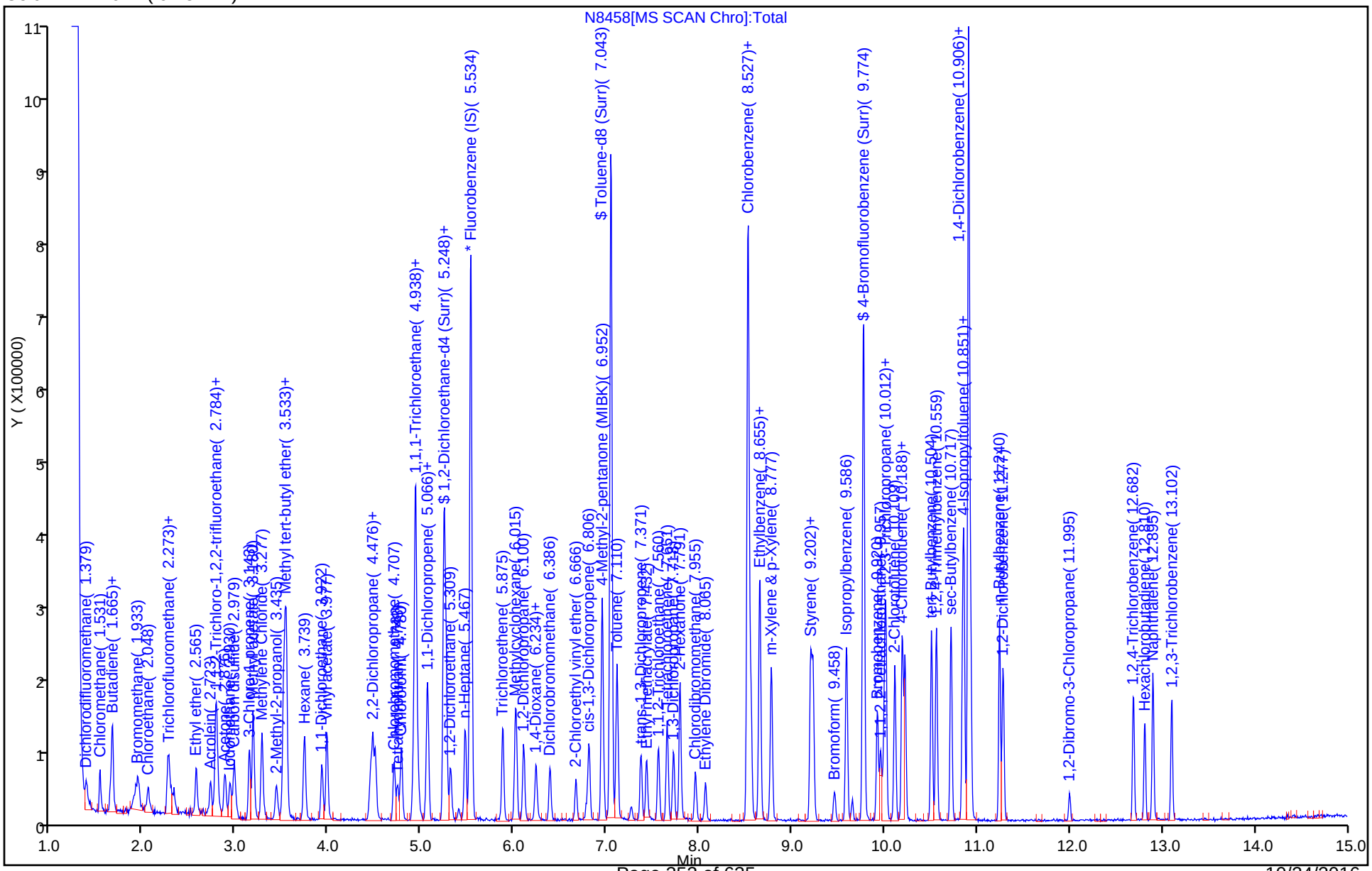
Report Date: 10-Oct-2016 13:14:03 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8458.D

Injection Date:	06-Oct-2016 00:14:30	Instrument ID:	HP5973N	Operator ID:	SO
Lims ID:	IC 3			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	35
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

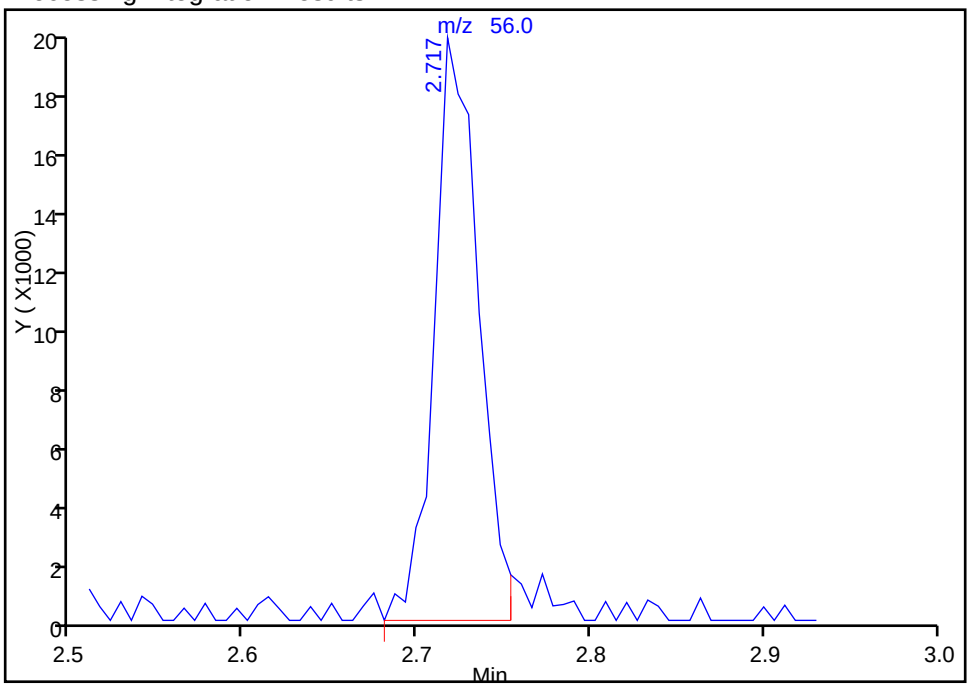
Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8458.D				
Injection Date:	06-Oct-2016 00:14:30	Instrument ID:	HP5973N		
Lims ID:	IC 3				
Client ID:					
Operator ID:	SO	ALS Bottle#:	35	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

20 Acrolein, CAS: 107-02-8

Signal: 1

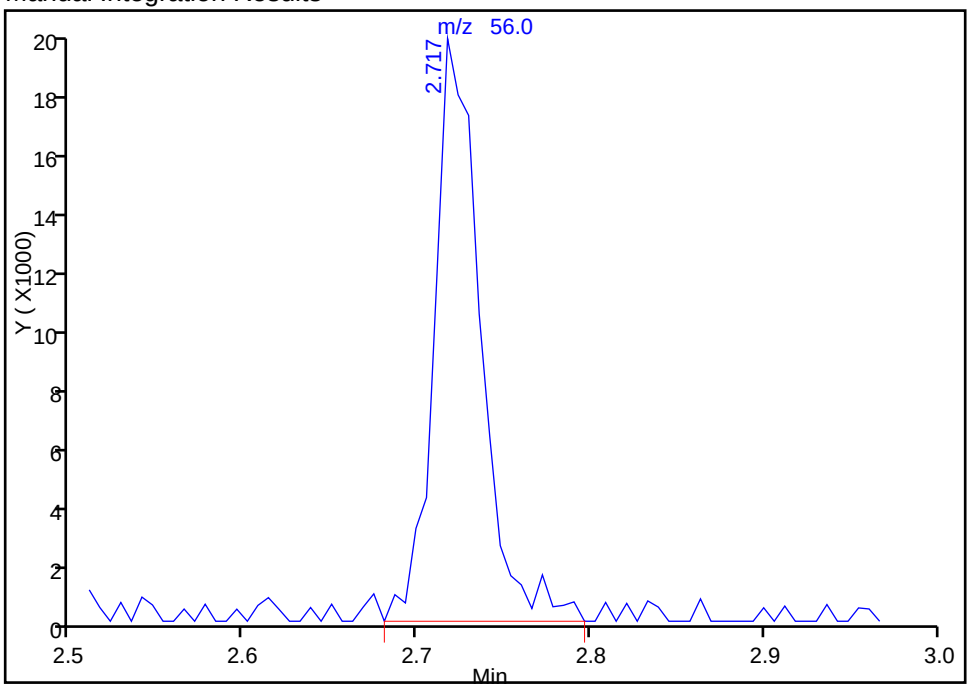
Processing Integration Results

RT: 2.72
Area: 34602
Amount: 24.995327
Amount Units: ug/L



Manual Integration Results

RT: 2.72
Area: 36373
Amount: 26.682351
Amount Units: ug/L



Reviewer: gentilej, 06-Oct-2016 13:31:42

Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

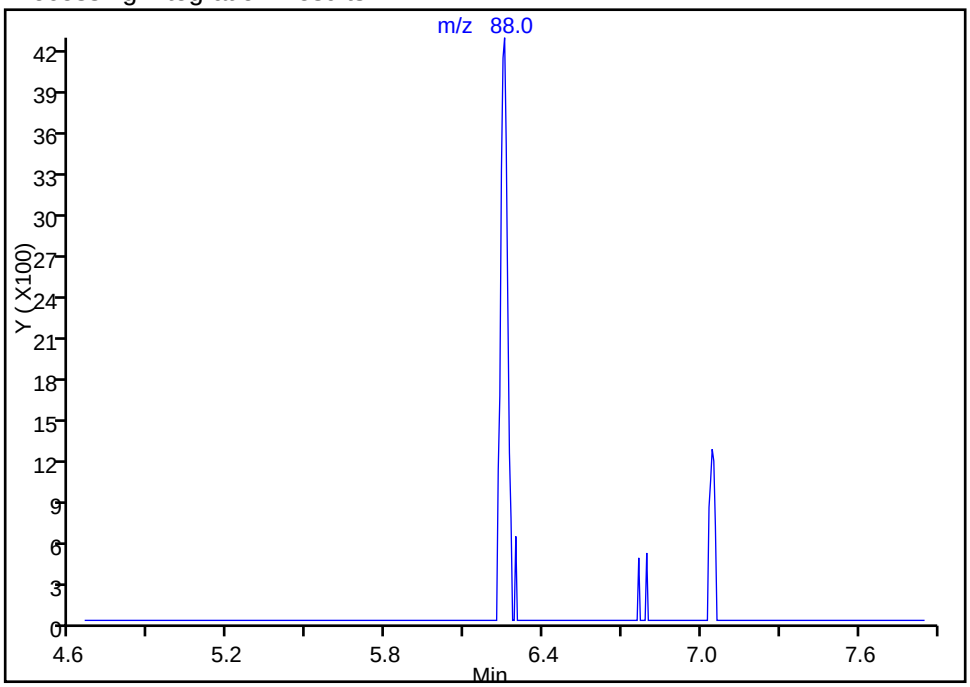
Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8458.D				
Injection Date:	06-Oct-2016 00:14:30	Instrument ID:	HP5973N		
Lims ID:	IC 3				
Client ID:					
Operator ID:	SO	ALS Bottle#:	35	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

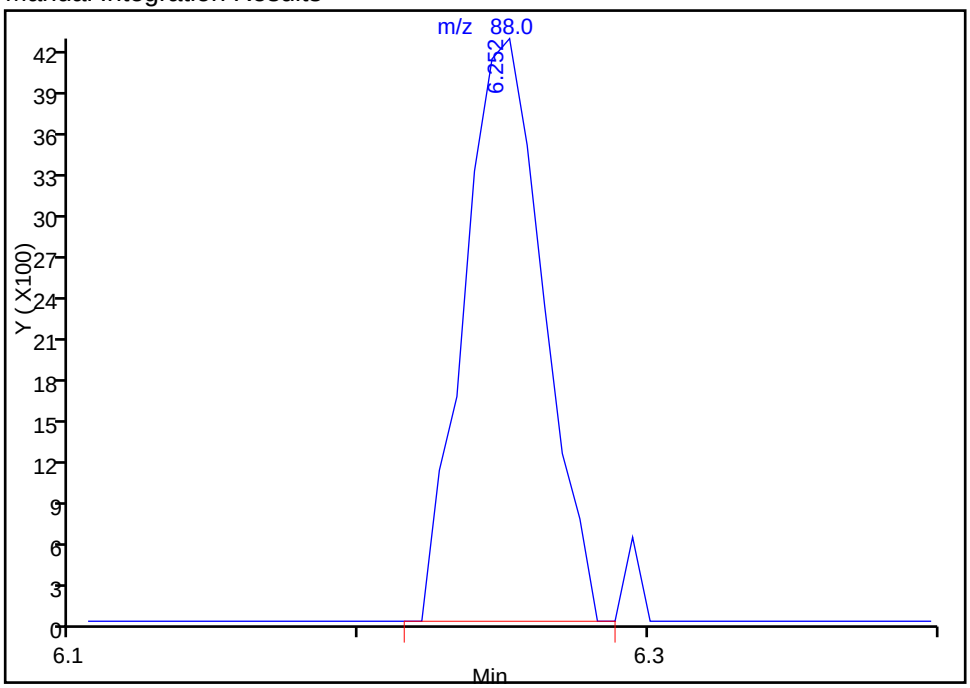
Processing Integration Results

Not Detected
Expected RT: 6.25



Manual Integration Results

RT: 6.25
Area: 8126
Amount: 109.0083
Amount Units: ug/L



Reviewer: gentilej, 06-Oct-2016 12:57:26
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

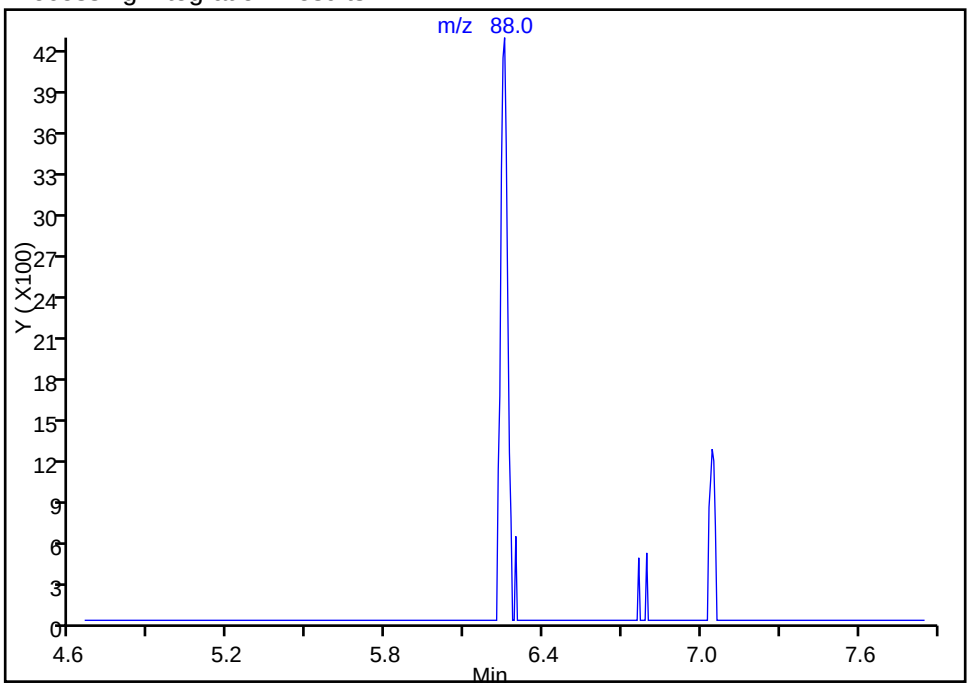
Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8458.D				
Injection Date:	06-Oct-2016 00:14:30	Instrument ID:	HP5973N		
Lims ID:	IC 3				
Client ID:					
Operator ID:	SO	ALS Bottle#:	35	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

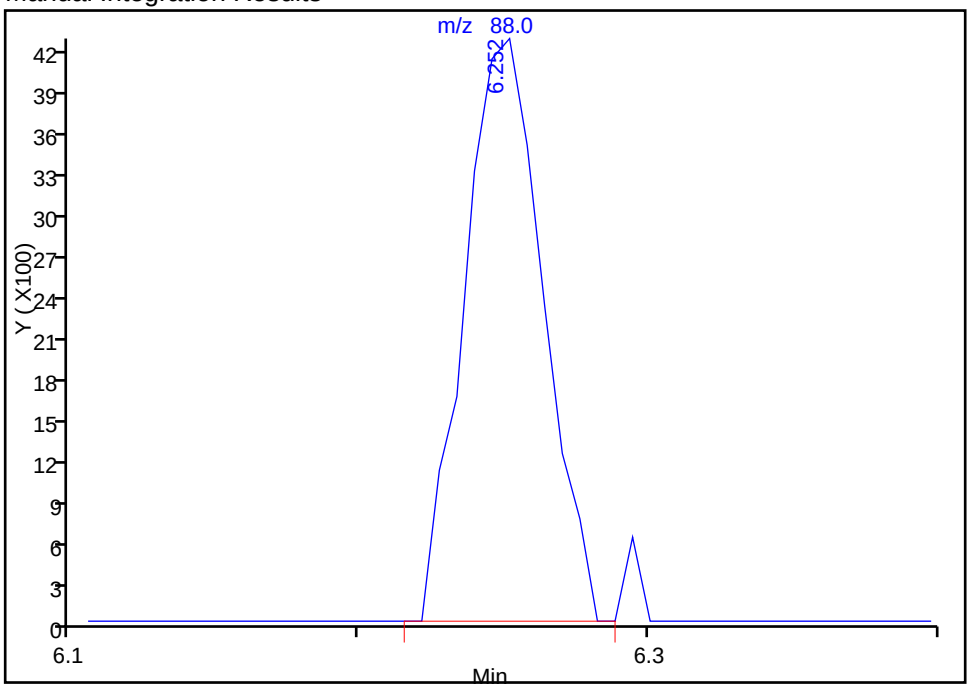
Processing Integration Results

Not Detected
Expected RT: 6.25



Manual Integration Results

RT: 6.25
Area: 8126
Amount: 109.0083
Amount Units: ug/L



Reviewer: gentilej, 06-Oct-2016 12:57:26
Audit Action: Manually Integrated Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8459.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 06-Oct-2016 00:41:30 ALS Bottle#: 36 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 4
Misc. Info.: 480-0057013-008
Operator ID: SO Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 10-Oct-2016 13:14:06 Calib Date: 06-Oct-2016 06:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK038

First Level Reviewer: gentilej Date: 06-Oct-2016 13:08:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.528	5.534	-0.006	99	120053	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.527	8.527	0.000	85	464106	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.906	10.906	0.000	94	263406	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.932	4.938	-0.006	94	172317	25.0	25.3	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.242	5.242	0.000	0	183319	25.0	24.8	
$ 6 Toluene-d8 (Surr)	98	7.043	7.043	0.000	93	569287	25.0	25.2	
$ 7 4-Bromofluorobenzene (Surr	174	9.774	9.774	0.000	96	208541	25.0	25.3	
11 Dichlorodifluoromethane	85	1.379	1.385	-0.006	100	58905	10.0	9.47	
13 Chloromethane	50	1.525	1.531	-0.006	98	80210	10.0	9.08	
14 Vinyl chloride	62	1.640	1.647	-0.007	99	67133	10.0	9.24	
144 Butadiene	54	1.659	1.665	-0.006	93	62666	10.0	8.65	
15 Bromomethane	94	1.938	1.945	-0.007	90	45068	10.0	8.82	
16 Chloroethane	64	2.042	2.054	-0.012	98	41275	10.0	9.20	
17 Dichlorofluoromethane	67	2.261	2.261	0.000	100	97064	10.0	8.90	
18 Trichlorofluoromethane	101	2.267	2.285	-0.018	96	77231	10.0	9.11	
19 Ethyl ether	59	2.565	2.571	-0.006	93	62053	10.0	9.63	
20 Acrolein	56	2.717	2.717	0.000	97	63528	50.0	50.2	
22 1,1-Dichloroethene	96	2.778	2.778	0.000	99	62341	10.0	9.74	
21 1,1,2-Trichloro-1,2,2-trif	101	2.784	2.784	0.000	72	64662	10.0	10.4	
23 Acetone	43	2.875	2.882	-0.007	98	134899	50.0	49.8	
24 Iodomethane	142	2.936	2.930	0.006	98	117056	10.0	9.66	
25 Carbon disulfide	76	2.973	2.979	-0.006	99	198253	10.0	9.73	
27 3-Chloro-1-propene	41	3.137	3.143	-0.006	89	111600	10.0	9.09	
28 Methyl acetate	43	3.180	3.180	0.000	98	334838	50.0	48.8	
30 Methylene Chloride	84	3.271	3.277	-0.006	93	86475	10.0	10.6	
31 2-Methyl-2-propanol	59	3.429	3.435	-0.006	97	104675	100.0	98.4	
32 Methyl tert-butyl ether	73	3.508	3.508	0.000	97	222830	10.0	9.86	
33 trans-1,2-Dichloroethene	96	3.514	3.520	-0.006	95	72669	10.0	9.91	
34 Acrylonitrile	53	3.532	3.539	-0.007	99	337830	100.0	99.1	
35 Hexane	57	3.733	3.739	-0.006	94	93815	10.0	10.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.922	3.922	0.000	97	126521	10.0	10.2	
39 Vinyl acetate	43	3.976	3.977	-0.001	98	303726	20.0	20.3	
42 2,2-Dichloropropane	77	4.445	4.451	-0.006	89	65565	10.0	9.48	
43 cis-1,2-Dichloroethene	96	4.475	4.476	-0.001	83	79452	10.0	9.52	
44 2-Butanone (MEK)	43	4.500	4.500	0.000	100	183167	50.0	48.8	
47 Chlorobromomethane	128	4.707	4.707	-0.001	95	40328	10.0	9.56	
49 Tetrahydrofuran	42	4.737	4.737	0.000	84	54395	20.0	20.6	
50 Chloroform	83	4.786	4.780	0.006	96	122714	10.0	9.73	
51 1,1,1-Trichloroethane	97	4.913	4.914	-0.001	98	94966	10.0	9.49	
52 Cyclohexane	56	4.944	4.938	0.006	85	110487	10.0	10.0	
53 Carbon tetrachloride	117	5.059	5.060	-0.001	96	89110	10.0	9.82	
54 1,1-Dichloropropene	75	5.065	5.072	-0.007	96	82980	10.0	9.82	
56 Isobutyl alcohol	43	5.248	5.248	0.000	74	102824	250.0	242.7	
55 Benzene	78	5.260	5.266	-0.006	96	257280	10.0	9.83	
57 1,2-Dichloroethane	62	5.309	5.315	-0.006	97	94397	10.0	9.74	
59 n-Heptane	43	5.473	5.467	0.006	93	86548	10.0	10.0	
60 Trichloroethene	95	5.875	5.875	0.000	94	65838	10.0	9.84	
62 Methylcyclohexane	83	6.014	6.015	-0.001	91	112635	10.0	9.54	
63 1,2-Dichloropropane	63	6.106	6.100	0.006	92	59212	10.0	9.75	
64 Dibromomethane	93	6.233	6.234	-0.001	94	43124	10.0	10.1	
66 1,4-Dioxane	88	6.252	6.252	0.000	97	14761	200.0	202.8	
67 Dichlorobromomethane	83	6.386	6.386	0.000	98	80380	10.0	9.77	
69 2-Chloroethyl vinyl ether	63	6.665	6.666	-0.001	91	39658	10.0	10.2	
71 cis-1,3-Dichloropropene	75	6.805	6.806	-0.001	93	93796	10.0	9.39	
72 4-Methyl-2-pentanone (MIBK	58	6.951	6.952	-0.001	98	141817	50.0	50.9	
73 Toluene	92	7.110	7.110	0.000	97	153962	10.0	9.57	
75 trans-1,3-Dichloropropene	75	7.371	7.371	0.000	96	83185	10.0	9.72	
77 Ethyl methacrylate	69	7.432	7.432	0.000	89	81294	10.0	11.1	
78 1,1,2-Trichloroethane	83	7.554	7.554	0.000	93	47219	10.0	10.2	
79 Tetrachloroethene	166	7.651	7.651	0.000	97	73921	10.0	9.98	
80 1,3-Dichloropropane	76	7.718	7.718	0.000	93	94217	10.0	10.2	
82 2-Hexanone	43	7.791	7.791	0.000	97	247991	50.0	53.5	
83 Chlorodibromomethane	129	7.955	7.955	0.000	88	66359	10.0	9.93	
84 Ethylene Dibromide	107	8.065	8.065	0.000	97	63071	10.0	10.0	
85 Chlorobenzene	112	8.551	8.558	-0.007	96	175782	10.0	9.58	
89 1,1,1,2-Tetrachloroethane	131	8.649	8.649	0.000	90	68094	10.0	10.2	
88 Ethylbenzene	91	8.655	8.655	0.000	98	291761	10.0	10.1	
90 m-Xylene & p-Xylene	106	8.776	8.777	-0.001	0	123305	10.0	10.2	
91 o-Xylene	106	9.202	9.202	0.000	97	119816	10.0	9.64	
92 Styrene	104	9.227	9.227	0.000	97	197679	10.0	9.80	
93 Bromoform	173	9.458	9.458	0.000	95	38633	10.0	9.32	
95 Isopropylbenzene	105	9.586	9.586	0.000	95	305794	10.0	10.4	
97 Bromobenzene	156	9.920	9.920	0.000	90	87066	10.0	9.92	
98 1,1,2,2-Tetrachloroethane	83	9.957	9.957	0.000	94	85156	10.0	10.2	
99 1,2,3-Trichloropropane	110	9.987	9.993	-0.006	88	28627	10.0	10.5	
101 trans-1,4-Dichloro-2-buten	53	10.005	10.005	0.000	65	27137	10.0	10.1	
100 N-Propylbenzene	91	10.011	10.012	-0.001	99	356173	10.0	10.3	
102 2-Chlorotoluene	126	10.115	10.109	0.006	97	76719	10.0	9.83	
104 1,3,5-Trimethylbenzene	105	10.188	10.188	0.000	94	249372	10.0	10.1	
105 4-Chlorotoluene	91	10.218	10.218	0.000	97	251561	10.0	10.4	
106 tert-Butylbenzene	134	10.510	10.504	0.006	92	61758	10.0	10.2	
108 1,2,4-Trimethylbenzene	105	10.559	10.559	0.000	96	261857	10.0	10.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.717	10.717	0.000	94	330378	10.0	10.2	
110 1,3-Dichlorobenzene	146	10.845	10.845	0.000	98	164480	10.0	9.67	
111 4-Isopropyltoluene	119	10.857	10.857	0.000	97	284742	10.0	9.92	
113 1,4-Dichlorobenzene	146	10.930	10.930	0.000	97	169060	10.0	10.0	
115 n-Butylbenzene	91	11.240	11.240	0.000	97	241036	10.0	9.92	
116 1,2-Dichlorobenzene	146	11.277	11.277	0.000	99	158222	10.0	9.80	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.989	0.006	88	16205	10.0	11.1	
119 1,2,4-Trichlorobenzene	180	12.688	12.688	0.000	94	90193	10.0	9.80	
120 Hexachlorobutadiene	225	12.810	12.810	0.000	97	38082	10.0	9.43	
121 Naphthalene	128	12.895	12.895	0.000	97	249162	10.0	9.59	
122 1,2,3-Trichlorobenzene	180	13.102	13.102	0.000	97	79218	10.0	9.35	
S 125 Total BTEX	1				0			49.3	
S 126 Xylenes, Total	1				0			19.8	
S 123 1,3-Dichloropropene, Total	1				0			19.1	
S 124 1,2-Dichloroethene, Total	1				0			19.4	

Reagents:

8260 CORP mix_00083	Amount Added:	5.00	Units: uL	
GAS CORP mix_00182	Amount Added:	5.00	Units: uL	
N_8260_Surr_00208	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00036	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 10-Oct-2016 13:14:07 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8459.D

Injection Date: 06-Oct-2016 00:41:30 Instrument ID: HP5973N Operator ID: SO

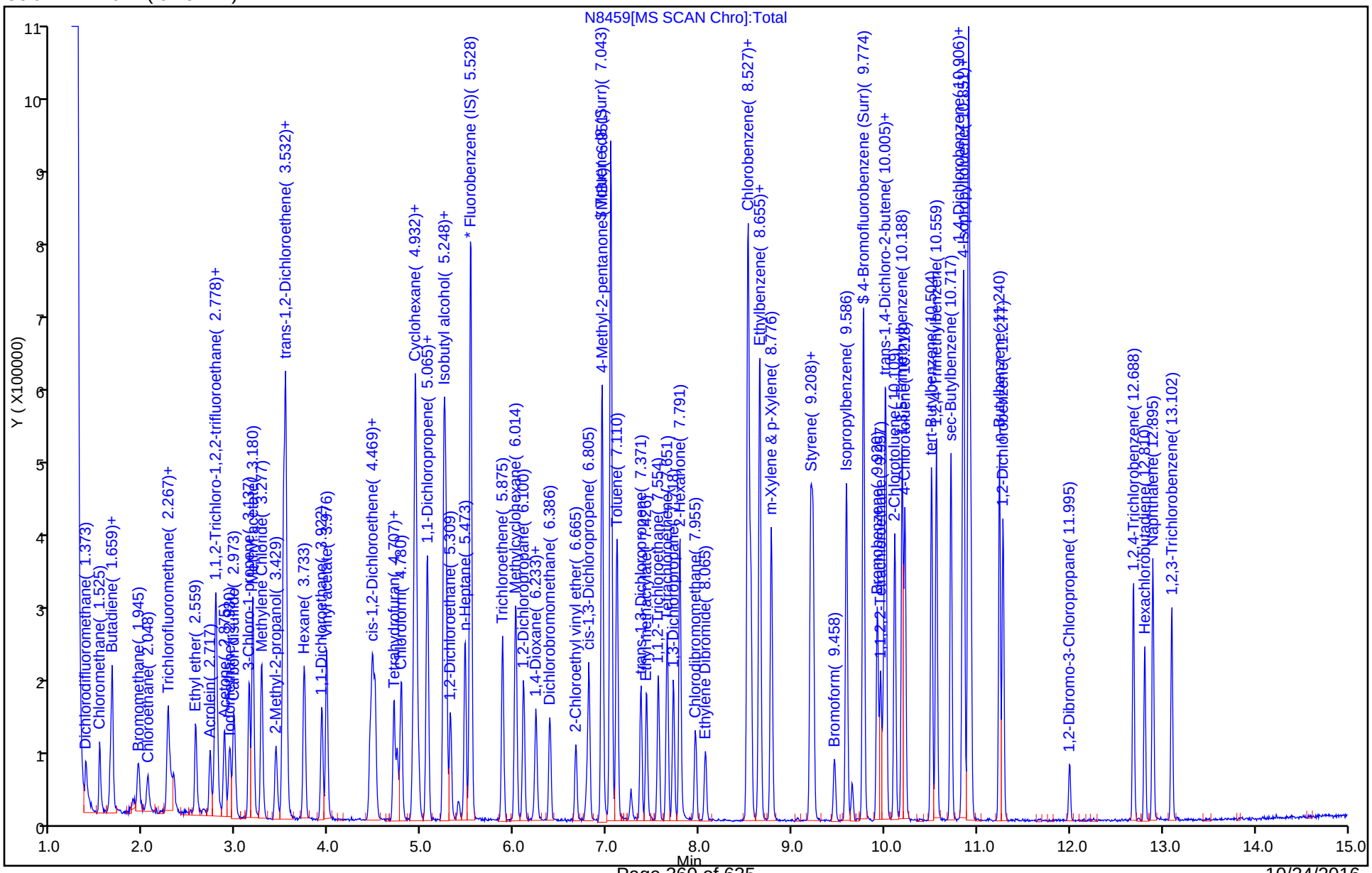
Lims ID: IC 4 Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 36

Method: N-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8460.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 06-Oct-2016 01:08:30 ALS Bottle#: 37 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS 5
Misc. Info.: 480-0057013-009
Operator ID: SO Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 10-Oct-2016 13:14:08 Calib Date: 06-Oct-2016 06:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK038

First Level Reviewer: gentilej Date: 06-Oct-2016 13:01:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.528	5.528	0.000	99	111316	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.527	8.527	0.000	84	451628	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.906	10.906	0.000	93	270410	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.932	4.932	0.000	93	161734	25.0	25.6	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.242	5.242	0.000	0	174665	25.0	25.5	
$ 6 Toluene-d8 (Surr)	98	7.043	7.043	0.000	93	541078	25.0	24.6	
$ 7 4-Bromofluorobenzene (Surr	174	9.774	9.774	0.000	95	198636	25.0	24.7	
11 Dichlorodifluoromethane	85	1.379	1.379	0.000	100	144024	25.0	25.0	
13 Chloromethane	50	1.531	1.531	0.000	99	206034	25.0	25.2	
14 Vinyl chloride	62	1.647	1.647	0.000	98	160284	25.0	23.8	
144 Butadiene	54	1.665	1.665	0.000	92	159360	25.0	23.7	
15 Bromomethane	94	1.939	1.939	0.000	91	114236	25.0	24.1	
16 Chloroethane	64	2.042	2.042	0.000	99	103772	25.0	24.9	
17 Dichlorofluoromethane	67	2.261	2.261	0.000	99	250452	25.0	24.8	
18 Trichlorofluoromethane	101	2.285	2.285	0.000	93	205516	25.0	26.1	
19 Ethyl ether	59	2.565	2.565	0.000	94	151204	25.0	25.3	
20 Acrolein	56	2.723	2.723	0.000	99	158929	125.0	141.8	
22 1,1-Dichloroethene	96	2.778	2.778	0.000	98	154440	25.0	26.0	
21 1,1,2-Trichloro-1,2,2-trif	101	2.784	2.784	0.000	90	152721	25.0	26.4	
23 Acetone	43	2.875	2.875	0.000	99	326181	125.0	129.9	
24 Iodomethane	142	2.930	2.930	0.000	98	295078	25.0	26.3	
25 Carbon disulfide	76	2.979	2.979	0.000	100	519636	25.0	27.5	
27 3-Chloro-1-propene	41	3.137	3.137	0.000	88	273630	25.0	24.0	
28 Methyl acetate	43	3.180	3.180	0.000	98	782084	125.0	122.9	
30 Methylene Chloride	84	3.277	3.277	0.000	94	194088	25.0	28.4	
31 2-Methyl-2-propanol	59	3.429	3.429	0.000	99	257490	250.0	261.1	
32 Methyl tert-butyl ether	73	3.508	3.508	0.000	96	548023	25.0	26.1	
33 trans-1,2-Dichloroethene	96	3.520	3.520	0.000	98	177447	25.0	26.1	
34 Acrylonitrile	53	3.539	3.539	0.000	99	816072	250.0	258.3	
35 Hexane	57	3.733	3.733	0.000	95	222289	25.0	25.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.922	3.922	0.000	97	302479	25.0	26.3	
39 Vinyl acetate	43	3.977	3.977	0.000	98	708110	50.0	50.9	
42 2,2-Dichloropropane	77	4.451	4.451	0.000	91	167676	25.0	26.1	
43 cis-1,2-Dichloroethene	96	4.469	4.469	0.000	83	196246	25.0	25.4	
44 2-Butanone (MEK)	43	4.500	4.500	0.000	100	420971	125.0	121.0	
47 Chlorobromomethane	128	4.707	4.707	0.000	93	103731	25.0	26.5	
49 Tetrahydrofuran	42	4.737	4.737	0.000	88	123875	50.0	52.1	
50 Chloroform	83	4.780	4.780	0.000	97	296357	25.0	25.4	
51 1,1,1-Trichloroethane	97	4.913	4.913	0.000	97	248082	25.0	26.7	
52 Cyclohexane	56	4.938	4.938	0.000	93	268720	25.0	26.3	
53 Carbon tetrachloride	117	5.059	5.059	0.000	95	227354	25.0	27.0	
54 1,1-Dichloropropene	75	5.066	5.066	0.000	94	211178	25.0	27.0	
56 Isobutyl alcohol	43	5.242	5.242	0.000	91	253136	625.0	644.4	
55 Benzene	78	5.266	5.266	0.000	97	614521	25.0	25.3	
57 1,2-Dichloroethane	62	5.315	5.315	0.000	97	229043	25.0	25.5	
59 n-Heptane	43	5.473	5.473	0.000	94	198682	25.0	25.1	
60 Trichloroethene	95	5.875	5.875	0.000	95	161540	25.0	26.0	
62 Methylcyclohexane	83	6.021	6.021	0.000	91	284736	25.0	26.0	
63 1,2-Dichloropropane	63	6.100	6.100	0.000	92	138204	25.0	24.5	
64 Dibromomethane	93	6.234	6.234	0.000	92	106599	25.0	26.9	
66 1,4-Dioxane	88	6.246	6.246	0.000	52	37647	500.0	531.5	
67 Dichlorobromomethane	83	6.386	6.386	0.000	99	201949	25.0	26.5	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	95	88191	25.0	24.5	
71 cis-1,3-Dichloropropene	75	6.805	6.805	0.000	93	231804	25.0	25.0	
72 4-Methyl-2-pentanone (MIBK	58	6.951	6.951	0.000	97	335291	125.0	123.7	
73 Toluene	92	7.110	7.110	0.000	99	381545	25.0	24.4	
75 trans-1,3-Dichloropropene	75	7.371	7.371	0.000	97	199195	25.0	23.9	
77 Ethyl methacrylate	69	7.432	7.432	0.000	90	180230	25.0	25.3	
78 1,1,2-Trichloroethane	83	7.554	7.554	0.000	91	108747	25.0	24.1	
79 Tetrachloroethene	166	7.651	7.651	0.000	98	180272	25.0	25.0	
80 1,3-Dichloropropane	76	7.724	7.724	0.000	93	218219	25.0	24.4	
82 2-Hexanone	43	7.791	7.791	0.000	97	550574	125.0	122.0	
83 Chlorodibromomethane	129	7.961	7.961	0.000	89	161568	25.0	24.8	
84 Ethylene Dibromide	107	8.065	8.065	0.000	99	149997	25.0	24.6	
85 Chlorobenzene	112	8.558	8.558	0.000	96	439900	25.0	24.6	
89 1,1,1,2-Tetrachloroethane	131	8.649	8.649	0.000	97	166413	25.0	25.5	
88 Ethylbenzene	91	8.655	8.655	0.000	98	719390	25.0	25.6	
90 m-Xylene & p-Xylene	106	8.777	8.777	0.000	0	293820	25.0	24.9	
91 o-Xylene	106	9.202	9.202	0.000	96	310212	25.0	25.7	
92 Styrene	104	9.227	9.227	0.000	97	489126	25.0	24.9	
93 Bromoform	173	9.458	9.458	0.000	96	106016	25.0	26.3	
95 Isopropylbenzene	105	9.592	9.592	0.000	96	759368	25.0	25.0	
97 Bromobenzene	156	9.920	9.920	0.000	90	217555	25.0	24.2	
98 1,1,2,2-Tetrachloroethane	83	9.957	9.957	0.000	95	207920	25.0	24.3	
99 1,2,3-Trichloropropane	110	9.993	9.993	0.000	88	68264	25.0	24.3	
101 trans-1,4-Dichloro-2-buten	53	10.005	10.005	0.000	65	64604	25.0	23.5	
100 N-Propylbenzene	91	10.011	10.011	0.000	98	880153	25.0	24.8	
102 2-Chlorotoluene	126	10.109	10.109	0.000	97	197772	25.0	24.7	
104 1,3,5-Trimethylbenzene	105	10.188	10.188	0.000	95	652203	25.0	25.6	
105 4-Chlorotoluene	91	10.218	10.218	0.000	97	614370	25.0	24.8	
106 tert-Butylbenzene	134	10.504	10.504	0.000	92	155804	25.0	25.0	
108 1,2,4-Trimethylbenzene	105	10.559	10.559	0.000	97	676762	25.0	25.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.717	10.717	0.000	94	840315	25.0	25.4	
110 1,3-Dichlorobenzene	146	10.845	10.845	0.000	99	418698	25.0	24.0	
111 4-Isopropyltoluene	119	10.857	10.857	0.000	97	767895	25.0	26.1	
113 1,4-Dichlorobenzene	146	10.930	10.930	0.000	96	427833	25.0	24.7	
115 n-Butylbenzene	91	11.240	11.240	0.000	97	646408	25.0	25.9	
116 1,2-Dichlorobenzene	146	11.277	11.277	0.000	98	409888	25.0	24.7	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	87	37984	25.0	24.7	
119 1,2,4-Trichlorobenzene	180	12.688	12.688	0.000	94	252348	25.0	26.7	
120 Hexachlorobutadiene	225	12.810	12.810	0.000	97	111531	25.0	26.9	
121 Naphthalene	128	12.895	12.895	0.000	97	711903	25.0	26.7	
122 1,2,3-Trichlorobenzene	180	13.102	13.102	0.000	95	233488	25.0	26.9	

Reagents:

8260 CORP mix_00083	Amount Added: 12.50	Units: uL	
GAS CORP mix_00182	Amount Added: 12.50	Units: uL	
N_8260_Surr_00208	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00036	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 10-Oct-2016 13:14:09 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8460.D

Injection Date: 06-Oct-2016 01:08:30 Instrument ID: HP5973N Operator ID: SO

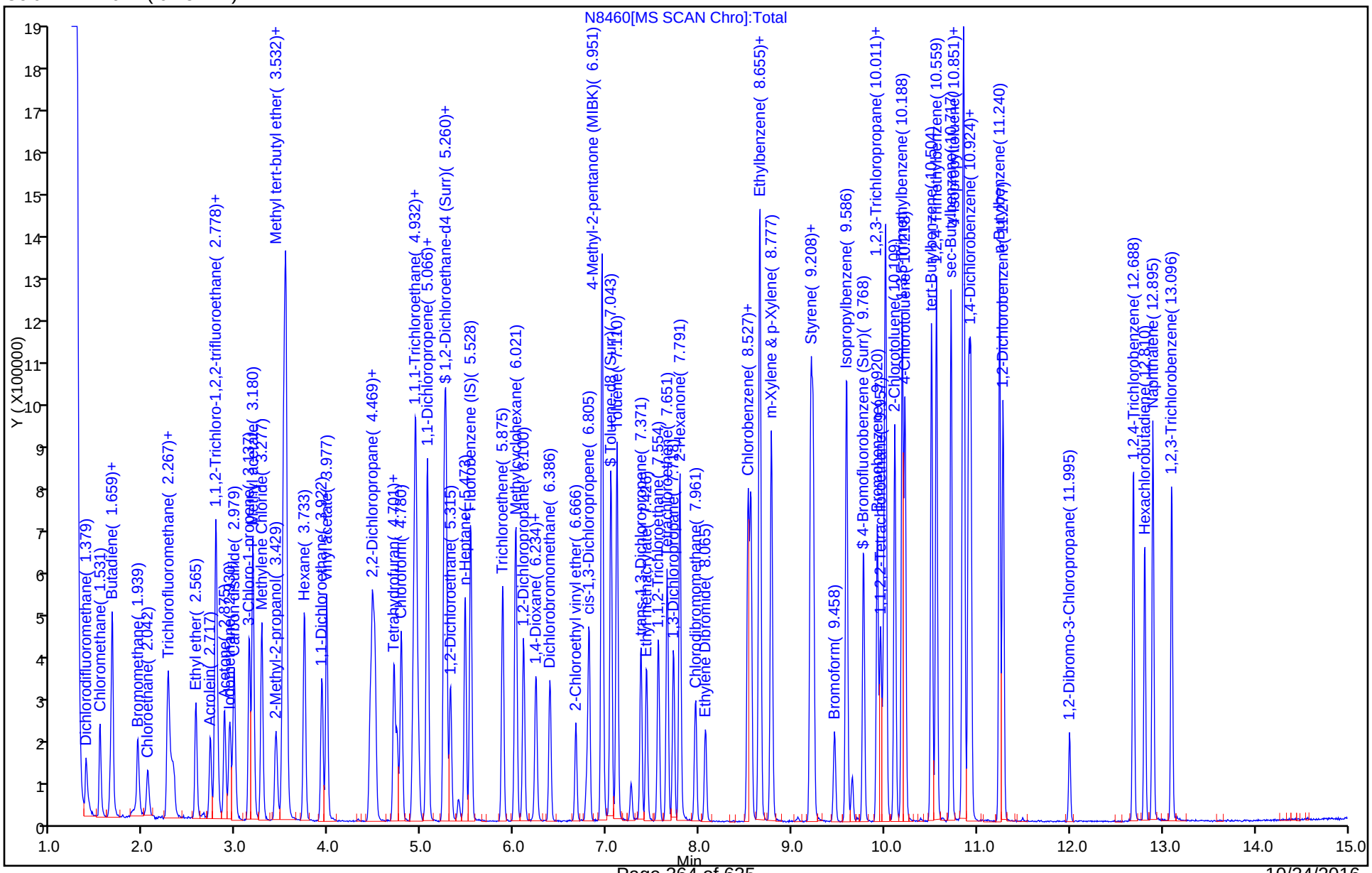
Lims ID: ICIS 5 Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 37

Method: N-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8461.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 06-Oct-2016 01:35:30 ALS Bottle#: 38 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 6
Misc. Info.: 480-0057013-010
Operator ID: SO Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 10-Oct-2016 13:14:10 Calib Date: 06-Oct-2016 06:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK038

First Level Reviewer: gentilej Date: 06-Oct-2016 13:16:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.528	5.528	0.000	99	121121	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.527	8.527	0.000	85	472160	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.906	10.906	0.000	93	281157	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.932	4.932	0.000	93	172617	25.0	25.1	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.242	5.242	0.000	0	187026	25.0	25.1	
$ 6 Toluene-d8 (Surr)	98	7.043	7.043	0.000	93	574787	25.0	25.0	
$ 7 4-Bromofluorobenzene (Surr	174	9.774	9.774	0.000	95	213092	25.0	25.4	
11 Dichlorodifluoromethane	85	1.385	1.379	0.006	100	313850	50.0	50.0	
13 Chloromethane	50	1.531	1.531	0.000	99	411986	50.0	46.2	
14 Vinyl chloride	62	1.646	1.647	-0.001	99	353081	50.0	48.2	
144 Butadiene	54	1.665	1.665	0.000	94	331096	50.0	45.3	
15 Bromomethane	94	1.945	1.939	0.006	90	231369	50.0	44.9	
16 Chloroethane	64	2.048	2.042	0.006	99	214663	50.0	47.4	
17 Dichlorofluoromethane	67	2.261	2.261	0.000	99	523546	50.0	47.6	
18 Trichlorofluoromethane	101	2.279	2.285	-0.006	98	445064	50.0	52.0	
19 Ethyl ether	59	2.565	2.565	0.000	94	306864	50.0	47.2	
20 Acrolein	56	2.717	2.723	-0.006	99	320235	250.0	265.9	
22 1,1-Dichloroethene	96	2.784	2.778	0.006	98	307628	50.0	47.6	
21 1,1,2-Trichloro-1,2,2-trif	101	2.784	2.784	0.000	92	311946	50.0	49.5	
23 Acetone	43	2.875	2.875	0.000	99	658356	250.0	240.9	
24 Iodomethane	142	2.930	2.930	0.000	99	606918	50.0	49.6	
25 Carbon disulfide	76	2.979	2.979	0.000	100	1024573	50.0	49.9	
27 3-Chloro-1-propene	41	3.143	3.137	0.006	88	538238	50.0	43.4	
28 Methyl acetate	43	3.180	3.180	0.000	98	1564415	250.0	226.0	
30 Methylene Chloride	84	3.277	3.277	0.000	94	368681	50.0	51.1	
31 2-Methyl-2-propanol	59	3.429	3.429	0.000	98	525335	500.0	489.5	
32 Methyl tert-butyl ether	73	3.508	3.508	0.000	97	1103737	50.0	48.4	
33 trans-1,2-Dichloroethene	96	3.520	3.520	0.000	96	355476	50.0	48.0	
34 Acrylonitrile	53	3.538	3.539	-0.001	98	1610146	500.0	468.3	
35 Hexane	57	3.733	3.733	0.000	94	445032	50.0	47.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.928	3.922	0.006	97	593098	50.0	47.5	
39 Vinyl acetate	43	3.976	3.977	-0.001	98	1453971	100.0	96.1	
42 2,2-Dichloropropane	77	4.451	4.451	0.000	91	335509	50.0	48.1	
43 cis-1,2-Dichloroethene	96	4.475	4.469	0.006	81	381421	50.0	45.3	
44 2-Butanone (MEK)	43	4.500	4.500	0.000	100	877583	250.0	231.8	
47 Chlorobromomethane	128	4.707	4.707	0.000	94	210444	50.0	49.5	
49 Tetrahydrofuran	42	4.731	4.737	-0.006	87	266968	100.0	104.3	
50 Chloroform	83	4.780	4.780	0.000	97	595703	50.0	46.8	
51 1,1,1-Trichloroethane	97	4.913	4.913	0.000	98	492106	50.0	48.7	
52 Cyclohexane	56	4.944	4.938	0.006	94	535904	50.0	48.1	
53 Carbon tetrachloride	117	5.059	5.059	0.000	97	451388	50.0	49.3	
54 1,1-Dichloropropene	75	5.065	5.066	-0.001	94	419358	50.0	49.2	
56 Isobutyl alcohol	43	5.242	5.242	0.000	92	498642	1250.0	1166.6	
55 Benzene	78	5.266	5.266	0.000	97	1258293	50.0	47.7	
57 1,2-Dichloroethane	62	5.315	5.315	0.000	98	449780	50.0	46.0	
59 n-Heptane	43	5.473	5.473	0.000	93	413995	50.0	48.4	
60 Trichloroethene	95	5.875	5.875	0.000	95	326535	50.0	48.4	
62 Methylcyclohexane	83	6.021	6.021	0.000	91	563701	50.0	47.3	
63 1,2-Dichloropropane	63	6.106	6.100	0.006	91	287280	50.0	46.9	
64 Dibromomethane	93	6.233	6.234	-0.001	94	218730	50.0	50.8	
66 1,4-Dioxane	88	6.246	6.246	0.000	52	79359	1000.0	1071.6	
67 Dichlorobromomethane	83	6.386	6.386	0.000	98	421837	50.0	50.8	
69 2-Chloroethyl vinyl ether	63	6.665	6.666	-0.001	95	188146	50.0	48.0	
71 cis-1,3-Dichloropropene	75	6.805	6.805	0.000	93	474572	50.0	47.1	
72 4-Methyl-2-pentanone (MIBK	58	6.951	6.951	0.000	97	708969	250.0	250.2	
73 Toluene	92	7.110	7.110	0.000	99	782097	50.0	47.8	
75 trans-1,3-Dichloropropene	75	7.371	7.371	0.000	96	439450	50.0	50.5	
77 Ethyl methacrylate	69	7.426	7.432	-0.006	89	379735	50.0	51.0	
78 1,1,2-Trichloroethane	83	7.560	7.554	0.006	92	227051	50.0	48.2	
79 Tetrachloroethene	166	7.651	7.651	0.000	98	360477	50.0	47.8	
80 1,3-Dichloropropane	76	7.718	7.724	-0.006	94	460937	50.0	49.2	
82 2-Hexanone	43	7.791	7.791	0.000	97	1150035	250.0	243.8	
83 Chlorodibromomethane	129	7.961	7.961	0.000	90	349164	50.0	51.4	
84 Ethylene Dibromide	107	8.065	8.065	0.000	99	317814	50.0	49.8	
85 Chlorobenzene	112	8.557	8.558	-0.001	95	892739	50.0	47.8	
89 1,1,1,2-Tetrachloroethane	131	8.649	8.649	0.000	94	347808	50.0	51.1	
88 Ethylbenzene	91	8.655	8.655	0.000	98	1415781	50.0	48.1	
90 m-Xylene & p-Xylene	106	8.776	8.777	-0.001	0	610351	50.0	49.4	
91 o-Xylene	106	9.202	9.202	0.000	95	626221	50.0	49.5	
92 Styrene	104	9.227	9.227	0.000	96	1015522	50.0	49.5	
93 Bromoform	173	9.458	9.458	0.000	97	229289	50.0	54.3	
95 Isopropylbenzene	105	9.592	9.592	0.000	95	1503499	50.0	47.7	
97 Bromobenzene	156	9.920	9.920	0.000	88	444301	50.0	47.4	
98 1,1,2,2-Tetrachloroethane	83	9.957	9.957	0.000	96	414647	50.0	46.6	
99 1,2,3-Trichloropropane	110	9.993	9.993	0.000	88	138021	50.0	47.3	
101 trans-1,4-Dichloro-2-buten	53	10.005	10.005	0.000	83	136873	50.0	47.8	
100 N-Propylbenzene	91	10.011	10.011	0.000	98	1716691	50.0	46.6	
102 2-Chlorotoluene	126	10.109	10.109	0.000	97	400413	50.0	48.1	
104 1,3,5-Trimethylbenzene	105	10.188	10.188	0.000	95	1276932	50.0	48.2	
105 4-Chlorotoluene	91	10.218	10.218	0.000	97	1217689	50.0	47.4	
106 tert-Butylbenzene	134	10.510	10.504	0.006	92	307734	50.0	47.5	
108 1,2,4-Trimethylbenzene	105	10.559	10.559	0.000	96	1290486	50.0	46.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.717	10.717	0.000	94	1626470	50.0	47.2	
110 1,3-Dichlorobenzene	146	10.845	10.845	0.000	99	839958	50.0	46.3	
111 4-Isopropyltoluene	119	10.857	10.857	0.000	97	1475242	50.0	48.2	
113 1,4-Dichlorobenzene	146	10.930	10.930	0.000	95	865658	50.0	48.1	
115 n-Butylbenzene	91	11.240	11.240	0.000	97	1233509	50.0	47.6	
116 1,2-Dichlorobenzene	146	11.277	11.277	0.000	98	834458	50.0	48.4	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	87	82174	50.0	50.7	
119 1,2,4-Trichlorobenzene	180	12.688	12.688	0.000	94	495404	50.0	50.4	
120 Hexachlorobutadiene	225	12.810	12.810	0.000	97	222163	50.0	51.5	
121 Naphthalene	128	12.895	12.895	0.000	97	1370614	50.0	49.4	
122 1,2,3-Trichlorobenzene	180	13.102	13.102	0.000	96	451858	50.0	50.0	
S 125 Total BTEX	1				0			242.5	
S 126 Xylenes, Total	1				0			99.0	
S 123 1,3-Dichloropropene, Total	1				0			97.5	
S 124 1,2-Dichloroethene, Total	1				0			93.4	

Reagents:

8260 CORP mix_00083	Amount Added: 25.00	Units: uL	
GAS CORP mix_00182	Amount Added: 25.00	Units: uL	
N_8260_Surr_00208	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00036	Amount Added: 1.00	Units: uL	Run Reagent

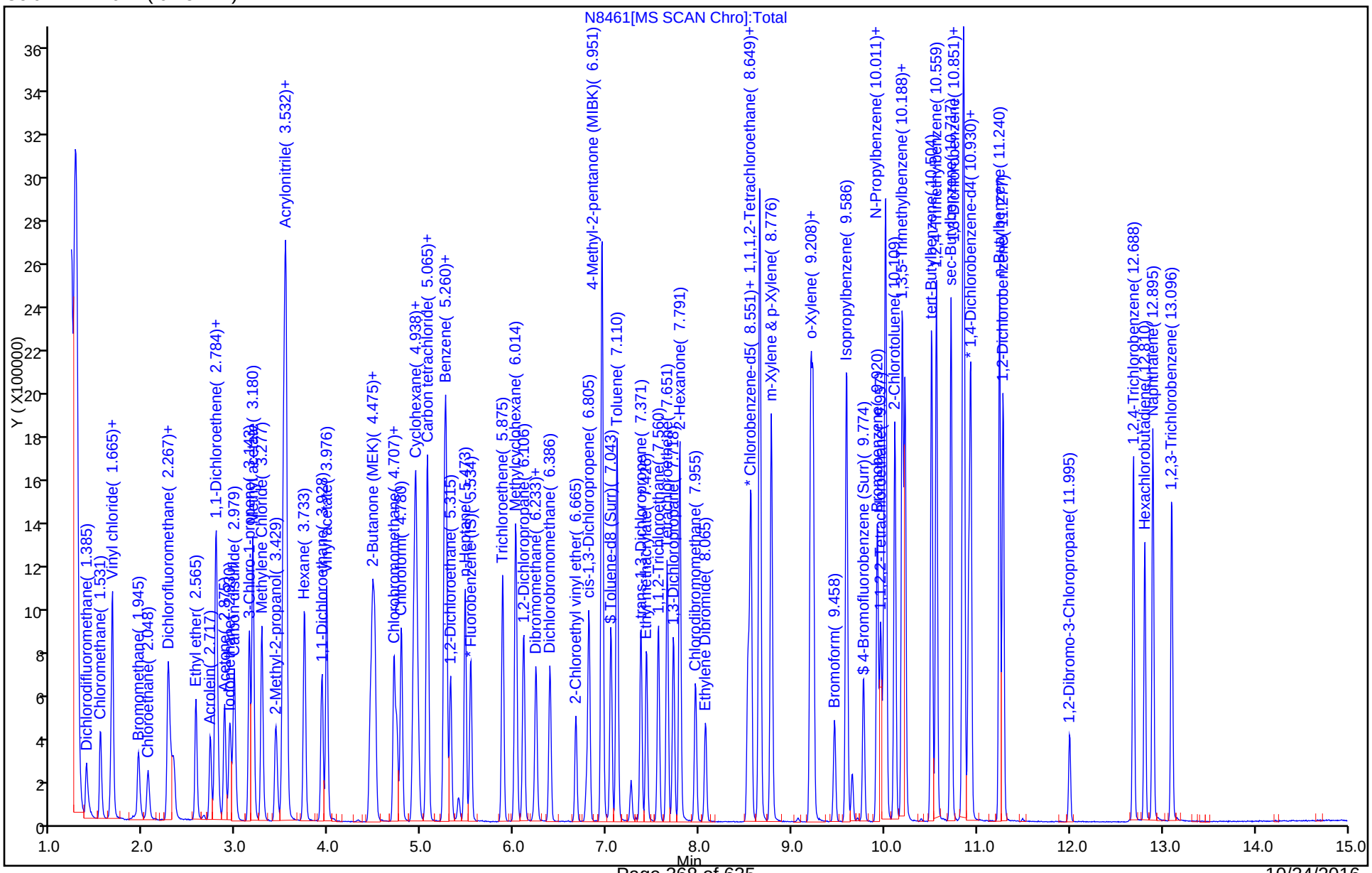
Report Date: 10-Oct-2016 13:14:11 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8461.D

Injection Date:	06-Oct-2016 01:35:30	Instrument ID:	HP5973N	Operator ID:	SO
Lims ID:	IC 6			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	38
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8462.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 06-Oct-2016 02:01:30 ALS Bottle#: 39 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 7
Misc. Info.: 480-0057013-011
Operator ID: SO Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 10-Oct-2016 13:14:12 Calib Date: 06-Oct-2016 06:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK038

First Level Reviewer: gentilej Date: 06-Oct-2016 13:30:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.534	5.528	0.006	99	135113	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.527	8.527	0.000	85	506465	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.906	10.906	0.000	93	278621	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.938	4.932	0.006	90	180801	25.0	23.6	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.242	5.242	0.000	0	198190	25.0	23.8	
$ 6 Toluene-d8 (Surr)	98	7.049	7.043	0.006	92	632134	25.0	25.6	
$ 7 4-Bromofluorobenzene (Surr	174	9.774	9.774	0.000	96	221831	25.0	24.6	
11 Dichlorodifluoromethane	85	1.385	1.379	0.006	99	711633	100.0	101.6	
13 Chloromethane	50	1.537	1.531	0.006	100	875316	100.0	88.0	
14 Vinyl chloride	62	1.653	1.647	0.006	99	769521	100.0	94.1	
144 Butadiene	54	1.665	1.665	0.000	93	754724	100.0	92.6	
15 Bromomethane	94	1.945	1.939	0.006	91	466771	100.0	81.2	
16 Chloroethane	64	2.054	2.042	0.012	99	454236	100.0	90.0	
17 Dichlorofluoromethane	67	2.267	2.261	0.006	99	1116174	100.0	90.9	
18 Trichlorofluoromethane	101	2.285	2.285	0.000	99	1043155	100.0	109.4	
19 Ethyl ether	59	2.565	2.565	0.000	94	616710	100.0	85.0	
20 Acrolein	56	2.723	2.723	0.000	99	623019	500.0	466.7	
22 1,1-Dichloroethene	96	2.784	2.778	0.006	98	675919	100.0	93.9	
21 1,1,2-Trichloro-1,2,2-trif	101	2.784	2.784	0.000	92	693049	100.0	98.6	
23 Acetone	43	2.875	2.875	0.000	99	1297112	500.0	425.5	
24 Iodomethane	142	2.936	2.930	0.006	99	1254685	100.0	92.0	
25 Carbon disulfide	76	2.979	2.979	0.000	100	2197067	100.0	95.9	
27 3-Chloro-1-propene	41	3.143	3.137	0.006	88	1152239	100.0	83.3	
28 Methyl acetate	43	3.180	3.180	0.000	97	3054227	500.0	395.6	
30 Methylene Chloride	84	3.277	3.277	0.000	94	752701	100.0	95.2	
31 2-Methyl-2-propanol	59	3.429	3.429	0.000	98	1040375	1000.0	869.1	
32 Methyl tert-butyl ether	73	3.508	3.508	0.000	97	2194567	100.0	86.3	
33 trans-1,2-Dichloroethene	96	3.520	3.520	0.000	96	758670	100.0	91.9	
34 Acrylonitrile	53	3.538	3.539	-0.001	98	3095601	1000.0	807.1	
35 Hexane	57	3.739	3.733	0.006	95	1017946	100.0	96.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.928	3.922	0.006	97	1259389	100.0	90.4	
39 Vinyl acetate	43	3.976	3.977	-0.001	98	3025892	200.0	179.3	
42 2,2-Dichloropropane	77	4.451	4.451	0.000	93	686030	100.0	88.1	
43 cis-1,2-Dichloroethene	96	4.475	4.469	0.006	83	818366	100.0	87.1	
44 2-Butanone (MEK)	43	4.494	4.500	-0.006	100	1842289	500.0	436.2	
47 Chlorobromomethane	128	4.707	4.707	0.000	93	453473	100.0	95.5	
49 Tetrahydrofuran	42	4.731	4.737	-0.006	86	549532	200.0	193.4	
50 Chloroform	83	4.786	4.780	0.006	97	1237544	100.0	87.2	
51 1,1,1-Trichloroethane	97	4.913	4.913	0.000	99	1092952	100.0	97.0	
52 Cyclohexane	56	4.944	4.938	0.006	94	1204528	100.0	97.0	
53 Carbon tetrachloride	117	5.059	5.059	0.000	98	1023753	100.0	100.2	
54 1,1-Dichloropropene	75	5.065	5.066	-0.001	92	921906	100.0	96.9	
56 Isobutyl alcohol	43	5.248	5.242	0.006	92	1021465	2500.0	2142.2	
55 Benzene	78	5.266	5.266	0.000	98	2629893	100.0	89.3	
57 1,2-Dichloroethane	62	5.315	5.315	0.000	97	979847	100.0	89.8	
59 n-Heptane	43	5.473	5.473	0.000	92	961499	100.0	100.9	
60 Trichloroethene	95	5.875	5.875	0.000	96	723137	100.0	96.0	
62 Methylcyclohexane	83	6.021	6.021	0.000	91	1290105	100.0	97.1	
63 1,2-Dichloropropane	63	6.100	6.100	0.000	92	639460	100.0	93.5	
64 Dibromomethane	93	6.233	6.234	-0.001	93	461934	100.0	96.2	
66 1,4-Dioxane	88	6.240	6.246	-0.006	94	149885	2000.0	1886.9	
67 Dichlorobromomethane	83	6.386	6.386	0.000	98	910057	100.0	98.3	
69 2-Chloroethyl vinyl ether	63	6.665	6.666	-0.001	94	442504	100.0	101.3	
71 cis-1,3-Dichloropropene	75	6.811	6.805	0.006	92	1059221	100.0	94.2	
72 4-Methyl-2-pentanone (MIBK	58	6.951	6.951	0.000	95	1453216	500.0	478.1	
73 Toluene	92	7.110	7.110	0.000	98	1690543	100.0	96.3	
75 trans-1,3-Dichloropropene	75	7.371	7.371	0.000	97	981520	100.0	105.1	
77 Ethyl methacrylate	69	7.432	7.432	0.000	90	829089	100.0	103.9	
78 1,1,2-Trichloroethane	83	7.560	7.554	0.006	93	502111	100.0	99.3	
79 Tetrachloroethene	166	7.651	7.651	0.000	99	841105	100.0	104.1	
80 1,3-Dichloropropane	76	7.718	7.724	-0.006	94	1004986	100.0	100.0	
82 2-Hexanone	43	7.791	7.791	0.000	95	2342536	500.0	463.0	
83 Chlorodibromomethane	129	7.955	7.961	-0.006	90	795221	100.0	109.0	
84 Ethylene Dibromide	107	8.065	8.065	0.000	98	697284	100.0	101.8	
85 Chlorobenzene	112	8.557	8.558	-0.001	94	1882604	100.0	94.0	
89 1,1,1,2-Tetrachloroethane	131	8.649	8.649	0.000	94	759017	100.0	103.9	
88 Ethylbenzene	91	8.655	8.655	0.000	98	2937408	100.0	93.1	
90 m-Xylene & p-Xylene	106	8.776	8.777	-0.001	0	1321116	100.0	99.8	
91 o-Xylene	106	9.202	9.202	0.000	95	1319920	100.0	97.3	
92 Styrene	104	9.227	9.227	0.000	96	2111034	100.0	95.9	
93 Bromoform	173	9.458	9.458	0.000	97	524601	100.0	115.9	
95 Isopropylbenzene	105	9.592	9.592	0.000	96	3099528	100.0	99.2	
97 Bromobenzene	156	9.920	9.920	0.000	89	932953	100.0	100.5	
98 1,1,2,2-Tetrachloroethane	83	9.957	9.957	0.000	97	852221	100.0	96.6	
99 1,2,3-Trichloropropane	110	9.993	9.993	0.000	89	286452	100.0	99.0	
101 trans-1,4-Dichloro-2-buten	53	10.005	10.005	0.000	82	286407	100.0	101.0	
100 N-Propylbenzene	91	10.011	10.011	0.000	98	3457274	100.0	94.6	
102 2-Chlorotoluene	126	10.109	10.109	0.000	97	842859	100.0	102.1	
104 1,3,5-Trimethylbenzene	105	10.194	10.188	0.006	96	2522692	100.0	96.1	
105 4-Chlorotoluene	91	10.218	10.218	0.000	96	2507452	100.0	98.4	
106 tert-Butylbenzene	134	10.510	10.504	0.006	92	658347	100.0	102.6	
108 1,2,4-Trimethylbenzene	105	10.559	10.559	0.000	96	2562973	100.0	93.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.717	10.717	0.000	95	3198600	100.0	93.7	
110 1,3-Dichlorobenzene	146	10.845	10.845	0.000	99	1665570	100.0	92.6	
111 4-Isopropyltoluene	119	10.857	10.857	0.000	96	2853593	100.0	94.0	
113 1,4-Dichlorobenzene	146	10.930	10.930	0.000	95	1706268	100.0	95.7	
115 n-Butylbenzene	91	11.240	11.240	0.000	96	2352532	100.0	91.5	
116 1,2-Dichlorobenzene	146	11.277	11.277	0.000	98	1583897	100.0	92.7	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	88	159503	100.0	98.9	
119 1,2,4-Trichlorobenzene	180	12.688	12.688	0.000	95	872238	100.0	89.6	
120 Hexachlorobutadiene	225	12.810	12.810	0.000	97	401340	100.0	93.9	
121 Naphthalene	128	12.895	12.895	0.000	97	2322525	100.0	84.5	
122 1,2,3-Trichlorobenzene	180	13.102	13.102	0.000	96	783923	100.0	87.5	
S 125 Total BTEX	1				0			475.8	
S 126 Xylenes, Total	1				0			197.1	
S 123 1,3-Dichloropropene, Total	1				0			199.3	
S 124 1,2-Dichloroethene, Total	1				0			179.1	

Reagents:

8260 CORP mix_00083	Amount Added: 50.00	Units: uL	
GAS CORP mix_00182	Amount Added: 50.00	Units: uL	
N_8260_Surr_00208	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00036	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 10-Oct-2016 13:14:13 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8462.D

Injection Date: 06-Oct-2016 02:01:30 Instrument ID: HP5973N Operator ID: SO

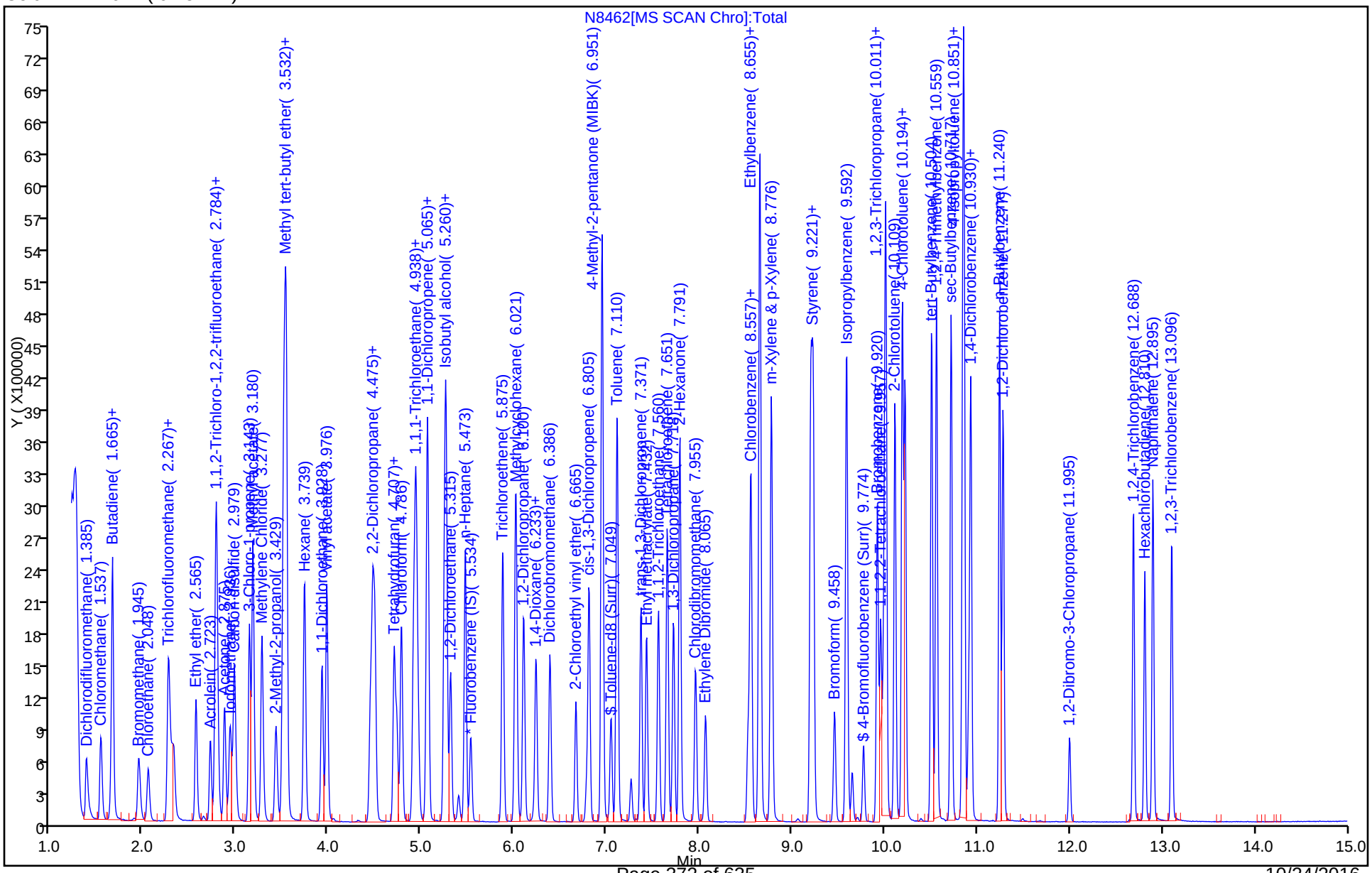
Lims ID: IC 7 Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 39

Method: N-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



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

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1 Analy Batch No.: 320502

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/15/2016 15:01 Calibration End Date: 09/15/2016 17:44 Calibration ID: 28332

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-320502/5	P0159.D
Level 2	IC 480-320502/6	P0160.D
Level 3	IC 480-320502/7	P0161.D
Level 4	IC 480-320502/8	P0162.D
Level 5	ICIS 480-320502/9	P0163.D
Level 6	IC 480-320502/10	P0164.D
Level 7	IC 480-320502/11	P0165.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	2.0365 2.0806	2.1320 2.0046	2.2049	2.0403	2.0649	Ave		2.0806			0.1000	3.3		20.0			
Chloromethane	+++++ 2.1176	2.3606 2.0954	2.1407	2.1844	2.1713	Ave		2.1783			0.1000	4.4		20.0			
Vinyl chloride	1.4762 1.5480	1.7048 1.5215	1.6129	1.5650	1.6159	Ave		1.5778			0.1000	4.7		20.0			
Butadiene	+++++ 1.6524	1.8650 1.6069	1.7343	1.6818	1.7090	Ave		1.7082				5.2		20.0			
Bromomethane	0.7281 0.6642	0.8141 0.6725	0.6269	0.6333	0.6091	Ave		0.6783			0.1000	10.5		20.0			
Chloroethane	+++++ 0.8100	0.8464 0.8545	0.9119	0.7943	0.8320	Ave		0.8415			0.1000	4.9		20.0			
Dichlorofluoromethane	+++++ 3.0018	3.0972 2.5381	2.7019	2.6369	2.5805	Ave		2.7594				8.5		20.0			
Trichlorofluoromethane	2.9386 3.0167	2.8572 2.8725	2.9234	2.8943	2.9185	Ave		2.9173			0.1000	1.8		20.0			
Ethyl ether	+++++ 1.9496	1.9409 1.8638	1.9922	1.9511	1.9797	Ave		1.9462				2.3		20.0			
Acrolein	+++++ 0.5150	0.4236 0.4967	0.4435	0.4847	0.5130	Ave		0.4794				7.9		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0573 1.8462	2.0000 1.7410	2.0025	1.9375	1.9200	Ave		1.9292			0.1000	5.6		20.0			
1,1-Dichloroethene	+++++ 1.6151	1.7554 1.5496	1.7665	1.6898	1.7094	Ave		1.6810			0.1000	5.0		20.0			
Acetone	+++++ 1.0025	1.1595 0.9396	1.0127	1.0232	1.0220	Ave		1.0266			0.1000	7.0		20.0			
Iodomethane	+++++ 3.1939	3.2602 3.0806	3.2683	3.2447	3.2990	Ave		3.2245				2.4		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1 Analy Batch No.: 320502

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/15/2016 15:01 Calibration End Date: 09/15/2016 17:44 Calibration ID: 28332

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon disulfide	+++++ 5.7454	6.0118 5.1280	5.8355	5.4957	5.8368	Ave		5.6755			0.1000	5.6		20.0			
Methyl acetate	3.0561 2.6287	2.7152 2.3269	2.7283	2.6939	2.6976	Ave		2.6924			0.1000	7.9		20.0			
Allyl chloride	+++++ 3.7092	4.8340 3.4362	3.9882	3.9172	3.9527	Ave		3.9729				11.8		20.0			
Methylene Chloride	+++++ 1.7733	3.8051 1.6678	2.0884	1.9589	1.8536	Lin1	2.2039	1.6880			0.1000				0.9990		0.9900
2-Methyl-2-propanol	0.5049 0.4536	0.4610 0.4247	0.4515	0.4455	0.4504	Ave		0.4559				5.3		20.0			
Methyl tert-butyl ether	+++++ 5.5733	6.0521 5.1889	5.8419	5.7419	5.8175	Ave		5.7026			0.1000	5.2		20.0			
Acrylonitrile	1.5256 1.2110	1.3162 1.0653	1.2815	1.2820	1.2736	Ave		1.2793				10.7		20.0			
trans-1,2-Dichloroethene	+++++ 1.6493	1.9680 1.5114	1.8530	1.7987	1.7971	Ave		1.7629			0.1000	9.1		20.0			
Hexane	+++++ 3.0090	3.3595 2.9054	3.3256	3.1148	3.1789	Ave		3.1489				5.6		20.0			
Vinyl acetate	+++++ 5.8504	5.9625 5.3858	5.9521	5.8443	5.9393	Ave		5.8224				3.8		20.0			
1,1-Dichloroethane	4.3736 3.5394	3.7890 3.3540	3.6937	3.6031	3.6831	Ave		3.7194			0.2000	8.6		20.0			
2-Butanone (MEK)	1.8815 1.8088	1.8793 1.6775	1.8631	1.8152	1.8122	Ave		1.8197			0.1000	3.9		20.0			
2,2-Dichloropropane	+++++ 2.4549	2.7165 2.2706	2.6740	2.6072	2.6070	Ave		2.5550				6.5		20.0			
cis-1,2-Dichloroethene	+++++ 1.8689	2.0927 1.7467	1.9629	1.9429	1.9745	Ave		1.9314			0.1000	6.0		20.0			
Chlorobromomethane	0.9736 0.9923	1.0516 0.9460	1.0130	0.9842	1.0218	Ave		0.9975				3.5		20.0			
Tetrahydrofuran	+++++ 1.2095	1.4846 1.1014	1.2966	1.2291	1.2413	Ave		1.2604				10.1		20.0			
Chloroform	+++++ 2.8879	3.3854 2.6986	3.0193	2.9771	2.9995	Ave		2.9946			0.2000	7.5		20.0			
1,1,1-Trichloroethane	+++++ 2.6942	2.6974 2.5937	2.7034	2.7280	2.7648	Ave		2.6969			0.1000	2.1		20.0			
Cyclohexane	+++++ 4.0324	4.5344 3.8324	4.3604	4.1802	4.2335	Ave		4.1956			0.1000	5.9		20.0			
Isobutyl alcohol	0.1957 0.2178	0.1751 0.1956	0.2114	0.2154	0.2213	Ave		0.2046				8.1		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1 Analy Batch No.: 320502

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/15/2016 15:01 Calibration End Date: 09/15/2016 17:44 Calibration ID: 28332

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1-Dichloropropene	+++++ 2.2629	2.4823 2.0680	2.5219	2.3895	2.3898	Ave		2.3524				7.0		20.0			
Carbon tetrachloride	+++++ 2.5061	2.5063 2.3630	2.5788	2.5842	2.6056	Ave		2.5240			0.1000	3.5		20.0			
Benzene	+++++ 6.6930	7.2134 6.2430	7.0484	6.7981	6.8678	Ave		6.8106			0.5000	4.9		20.0			
1,2-Dichloroethane	+++++ 2.7487	3.0656 2.5587	2.8724	2.8309	2.8332	Ave		2.8182			0.1000	5.9		20.0			
n-Heptane	+++++ 2.9572	4.3066 2.8009	3.5462	3.2148	3.1086	Ave		3.3224				16.4		20.0			
Trichloroethene	+++++ 1.8353	1.9225 1.7488	1.8474	1.8382	1.8645	Ave		1.8428			0.2000	3.0		20.0			
Methylcyclohexane	+++++ 2.9143	3.1442 2.7801	3.1623	3.0239	3.0596	Ave		3.0141			0.1000	4.8		20.0			
1,2-Dichloropropane	+++++ 1.9774	2.0215 1.8987	2.0519	1.9872	1.9926	Ave		1.9882			0.1000	2.6		20.0			
1,4-Dioxane	0.0105 0.0147	0.0125 0.0141	0.0140	0.0149	0.0148	Ave		0.0136				11.9		20.0			
Dibromomethane	+++++ 1.2198	1.2732 1.1650	1.2077	1.2110	1.2304	Ave		1.2179			0.1000	2.9		20.0			
Bromodichloromethane	+++++ 2.2651	2.1039 2.2243	2.1449	2.1291	2.2362	Ave		2.1839			0.2000	3.0		20.0			
2-Chloroethyl vinyl ether	+++++ 1.6454	1.5630 1.5781	1.5876	1.5515	1.6061	Ave		1.5886				2.1		20.0			
cis-1,3-Dichloropropene	2.8954 2.8983	2.6664 2.7995	2.8511	2.7776	2.8729	Ave		2.8230			0.2000	2.9		20.0			
4-Methyl-2-pentanone (MIBK)	2.0447 1.6717	1.8461 1.4173	1.8180	1.8120	1.7920	Ave		1.7717			0.1000	10.8		20.0			
Toluene	+++++ 2.1458	2.3606 2.0461	2.1872	2.1726	2.1970	Ave		2.1849			0.4000	4.7		20.0			
Ethyl methacrylate	1.3373 1.3004	1.2943 1.2296	1.2309	1.2732	1.2980	Ave		1.2805				3.1		20.0			
trans-1,3-Dichloropropene	+++++ 1.3379	1.2905 1.2608	1.2602	1.3077	1.3306	Ave		1.2979			0.1000	2.6		20.0			
1,1,2-Trichloroethane	+++++ 0.6836	0.6819 0.6581	0.6942	0.6797	0.6791	Ave		0.6794			0.1000	1.7		20.0			
Tetrachloroethene	+++++ 0.8991	1.0257 0.8118	1.0003	0.9555	0.9657	Ave		0.9430			0.2000	8.2		20.0			
2-Hexanone	+++++ 1.1627	1.3446 0.9532	1.3070	1.2812	1.2582	Ave		1.2178			0.1000	11.8		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1 Analy Batch No.: 320502

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/15/2016 15:01 Calibration End Date: 09/15/2016 17:44 Calibration ID: 28332

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,3-Dichloropropane	+++++ 1.2904	1.3850 1.1324	1.3956	1.3669	1.3545	Ave		1.3208				7.5		20.0			
Dibromochloromethane	0.9667 0.9929	0.8187 0.9914	0.8736	0.8829	0.9644	Ave		0.9272			0.1000	7.4		20.0			
1,2-Dibromoethane	+++++ 0.9685	0.8954 0.9296	0.9421	0.9294	0.9478	Ave		0.9355				2.6		20.0			
Chlorobenzene	+++++ 2.4136	2.5711 2.2958	2.4204	2.4695	2.4487	Ave		2.4365			0.5000	3.7		20.0			
Ethylbenzene	+++++ 3.8734	4.1556 3.5205	4.1258	4.0489	4.0401	Ave		3.9607			0.1000	6.0		20.0			
1,1,1,2-Tetrachloroethane	0.9872 0.9050	0.9154 0.8444	0.8890	0.9307	0.9258	Ave		0.9139				4.8		20.0			
m,p-Xylene	1.9310 1.6507	1.6826 1.5445	1.6979	1.6655	1.6814	Ave		1.6934			0.1000	6.9		20.0			
o-Xylene	+++++ 1.6458	1.7820 1.4876	1.7101	1.7160	1.7303	Ave		1.6786			0.3000	6.2		20.0			
Styrene	+++++ 2.6433	2.6544 2.3851	2.7442	2.7504	2.7696	Ave		2.6578			0.3000	5.4		20.0			
Bromoform	+++++ 0.6960	0.5338 0.7030	0.5581	0.5866	0.6549	Ave		0.6221			0.1000	11.6		20.0			
Isopropylbenzene	+++++ 4.0481	4.0243 3.8741	4.1096	4.0233	4.0618	Ave		4.0235			0.1000	2.0		20.0			
1,1,2,2-Tetrachloroethane	+++++ 1.2564	1.1766 1.2566	1.1806	1.1778	1.2317	Ave		1.2133			0.3000	3.2		20.0			
trans-1,4-Dichloro-2-butene	0.5808 0.5648	0.4645 0.5521	0.5403	0.5412	0.5523	Ave		0.5423				6.8		20.0			
1,2,3-Trichloropropane	0.3802 0.3582	0.3883 0.3277	0.3933	0.3882	0.3759	Ave		0.3731				6.2		20.0			
Bromobenzene	+++++ 0.9790	1.0409 0.8947	1.0432	0.9949	0.9899	Ave		0.9904				5.5		20.0			
N-Propylbenzene	+++++ 4.4354	4.7349 3.9067	4.8017	4.6209	4.5341	Ave		4.5056				7.1		20.0			
2-Chlorotoluene	+++++ 0.9431	1.0295 0.8669	1.0087	0.9856	0.9902	Ave		0.9707				6.0		20.0			
1,3,5-Trimethylbenzene	+++++ 3.3125	3.3450 3.0244	3.4804	3.3380	3.4231	Ave		3.3205				4.8		20.0			
4-Chlorotoluene	+++++ 1.0277	1.0044 0.9841	1.0509	1.0098	1.0205	Ave		1.0162				2.2		20.0			
tert-Butylbenzene	+++++ 0.7637	0.7486 0.7457	0.7780	0.7563	0.7625	Ave		0.7591				1.5		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1 Analy Batch No.: 320502

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/15/2016 15:01 Calibration End Date: 09/15/2016 17:44 Calibration ID: 28332

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trimethylbenzene	+++++ 3.5652	3.5437 3.3579	3.5612	3.5613	3.5989	Ave		3.5314				2.5		20.0			
sec-Butylbenzene	+++++ 4.4006	4.2929 4.1876	4.4493	4.3364	4.4129	Ave		4.3466				2.2		20.0			
4-Isopropyltoluene	+++++ 3.8579	3.8232 3.6623	3.9101	3.7913	3.8835	Ave		3.8214				2.3		20.0			
1,3-Dichlorobenzene	+++++ 2.0346	2.1431 1.9410	2.0942	2.0167	2.0455	Ave		2.0458			0.6000	3.4		20.0			
1,4-Dichlorobenzene	+++++ 2.0482	2.0946 1.9460	2.1032	2.0362	2.0407	Ave		2.0448			0.5000	2.7		20.0			
n-Butylbenzene	+++++ 3.3354	3.2188 3.2023	3.3823	3.2745	3.3565	Ave		3.2950				2.3		20.0			
1,2-Dichlorobenzene	+++++ 2.0774	2.1076 2.0008	2.0638	2.0186	2.0534	Ave		2.0536			0.4000	1.9		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.3548	0.2910 0.3593	0.3060	0.3104	0.3332	Ave		0.3258			0.0500	8.5		20.0			
1,2,4-Trichlorobenzene	+++++ 1.5455	1.5209 1.5209	1.5343	1.5316	1.5405	Ave		1.5323			0.2000	0.7		20.0			
Hexachlorobutadiene	+++++ 0.5711	0.5734 0.5832	0.5765	0.5571	0.5830	Ave		0.5740				1.7		20.0			
Naphthalene	+++++ 5.2208	5.0109 5.0443	5.1117	5.1047	5.2156	Ave		5.1180				1.7		20.0			
1,2,3-Trichlorobenzene	1.6527 1.5190	1.5005 1.5041	1.5363	1.4606	1.4927	Ave		1.5237				4.0		20.0			
Dibromofluoromethane (Surr)	1.2442 1.2201	1.2325 1.2079	1.2325	1.2361	1.2478	Ave		1.2316				1.1		20.0			
1,2-Dichloroethane-d4 (Surr)	0.8109 0.7901	0.7870 0.7947	0.8245	0.7929	0.8090	Ave		0.8013				1.7		20.0			
Toluene-d8 (Surr)	2.2455 2.2138	2.1924 2.2404	2.1879	2.2340	2.2271	Ave		2.2202				1.0		20.0			
4-Bromofluorobenzene (Surr)	0.7593 0.7587	0.7596 0.7628	0.7558	0.7612	0.7664	Ave		0.7606				0.4		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1 Analy Batch No.: 320502

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/15/2016 15:01 Calibration End Date: 09/15/2016 17:44 Calibration ID: 28332

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-320502/5	P0159.D
Level 2	IC 480-320502/6	P0160.D
Level 3	IC 480-320502/7	P0161.D
Level 4	IC 480-320502/8	P0162.D
Level 5	ICIS 480-320502/9	P0163.D
Level 6	IC 480-320502/10	P0164.D
Level 7	IC 480-320502/11	P0165.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	6179 655704	13065 1286953	66410	125122	316997	0.500 50.0	1.00 100	5.00	10.0	25.0
Chloromethane	FB	Ave	+++++ 667357	14466 1345244	64475	133956	333329	+++++ 50.0	1.00 100	5.00	10.0	25.0
Vinyl chloride	FB	Ave	4479 487868	10447 976777	48580	95970	248064	0.500 50.0	1.00 100	5.00	10.0	25.0
Butadiene	FB	Ave	+++++ 520763	11429 1031619	52234	103137	262362	+++++ 50.0	1.00 100	5.00	10.0	25.0
Bromomethane	FB	Ave	2209 209309	4989 431741	18881	38835	93512	0.500 50.0	1.00 100	5.00	10.0	25.0
Chloroethane	FB	Ave	+++++ 255260	5187 548566	27465	48709	127724	+++++ 50.0	1.00 100	5.00	10.0	25.0
Dichlorofluoromethane	FB	Ave	+++++ 946017	18980 1629464	81378	161706	396147	+++++ 50.0	1.00 100	5.00	10.0	25.0
Trichlorofluoromethane	FB	Ave	8916 950709	17509 1844175	88048	177493	448037	0.500 50.0	1.00 100	5.00	10.0	25.0
Ethyl ether	FB	Ave	+++++ 614419	11894 1196581	60004	119651	303919	+++++ 50.0	1.00 100	5.00	10.0	25.0
Acrolein	FB	Ave	+++++ 811486	12978 1594366	66795	148633	393742	+++++ 250	5.00 500	25.0	50.0	125
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave	6242 581840	12256 1117718	60312	118813	294757	0.500 50.0	1.00 100	5.00	10.0	25.0
1,1-Dichloroethene	FB	Ave	+++++ 509003	10757 994872	53205	103627	262421	+++++ 50.0	1.00 100	5.00	10.0	25.0
Acetone	FB	Ave	+++++ 1579639	35529 3016175	152504	313735	784445	+++++ 250	5.00 500	25.0	50.0	125
Iodomethane	FB	Ave	+++++ 1006552	19979 1977753	98437	198982	506456	+++++ 50.0	1.00 100	5.00	10.0	25.0
Carbon disulfide	FB	Ave	+++++ 1810688	36841 3292174	175758	337019	896050	+++++ 50.0	1.00 100	5.00	10.0	25.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1 Analy Batch No.: 320502

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/15/2016 15:01 Calibration End Date: 09/15/2016 17:44 Calibration ID: 28332

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Methyl acetate	FB	Ave	46362 4142262	83195 7469251	410870	825998	2070623	2.50 250	5.00 500	25.0	50.0	125
Allyl chloride	FB	Ave	+++++ 1168959	29623 2206063	120120	240217	606803	+++++ 50.0	1.00 100	5.00	10.0	25.0
Methylene Chloride	FB	Lin1	+++++ 558872	23318 1070748	62900	120127	284558	+++++ 50.0	1.00 100	5.00	10.0	25.0
2-Methyl-2-propanol	FB	Ave	15319 1429679	28253 2726258	135977	273183	691395	5.00 500	10.0 1000	50.0	100	250
Methyl tert-butyl ether	FB	Ave	+++++ 1756434	37088 3331256	175950	352120	893090	+++++ 50.0	1.00 100	5.00	10.0	25.0
Acrylonitrile	FB	Ave	46287 3816395	80658 6839322	385981	786199	1955160	5.00 500	10.0 1000	50.0	100	250
trans-1,2-Dichloroethene	FB	Ave	+++++ 519777	12060 970313	55809	110305	275889	+++++ 50.0	1.00 100	5.00	10.0	25.0
Hexane	FB	Ave	+++++ 948308	20587 1865257	100163	191013	488016	+++++ 50.0	1.00 100	5.00	10.0	25.0
Vinyl acetate	FB	Ave	+++++ 3687542	73077 6915373	358542	716794	1823582	+++++ 100	2.00 200	10.0	20.0	50.0
1,1-Dichloroethane	FB	Ave	13270 1115463	23219 2153238	111251	220959	565418	0.500 50.0	1.00 100	5.00	10.0	25.0
2-Butanone (MEK)	FB	Ave	28543 2850280	57582 5384851	280574	556594	1391034	2.50 250	5.00 500	25.0	50.0	125
2,2-Dichloropropane	FB	Ave	+++++ 773669	16647 1457733	80539	159882	400226	+++++ 50.0	1.00 100	5.00	10.0	25.0
cis-1,2-Dichloroethene	FB	Ave	+++++ 588978	12824 1121389	59120	119146	303118	+++++ 50.0	1.00 100	5.00	10.0	25.0
Chlorobromomethane	FB	Ave	2954 312730	6444 607313	30510	60354	156867	0.500 50.0	1.00 100	5.00	10.0	25.0
Tetrahydrofuran	FB	Ave	+++++ 762374	18195 1414196	78103	150745	381126	+++++ 100	2.00 200	10.0	20.0	50.0
Chloroform	FB	Ave	+++++ 910112	20746 1732481	90938	182569	460475	+++++ 50.0	1.00 100	5.00	10.0	25.0
1,1,1-Trichloroethane	FB	Ave	+++++ 849080	16530 1665180	81424	167291	424454	+++++ 50.0	1.00 100	5.00	10.0	25.0
Cyclohexane	FB	Ave	+++++ 1270827	27787 2460430	131329	256350	649915	+++++ 50.0	1.00 100	5.00	10.0	25.0
Isobutyl alcohol	FB	Ave	14845 1716344	26830 3140071	159181	330200	849426	12.5 1250	25.0 2500	125	250	625
1,1-Dichloropropene	FB	Ave	+++++ 713146	15212 1327666	75957	146537	366879	+++++ 50.0	1.00 100	5.00	10.0	25.0
Carbon tetrachloride	FB	Ave	+++++ 789803	15359 1517021	77671	158472	400005	+++++ 50.0	1.00 100	5.00	10.0	25.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1 Analy Batch No.: 320502

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/15/2016 15:01 Calibration End Date: 09/15/2016 17:44 Calibration ID: 28332

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzene	FB	Ave	+++++ 2109323	44204 4008034	212288	416892	1054334	+++++ 50.0	1.00 100	5.00	10.0	25.0
1,2-Dichloroethane	FB	Ave	+++++ 866244	18786 1642673	86513	173601	434942	+++++ 50.0	1.00 100	5.00	10.0	25.0
n-Heptane	FB	Ave	+++++ 931971	26391 1798158	106807	197147	477227	+++++ 50.0	1.00 100	5.00	10.0	25.0
Trichloroethene	FB	Ave	+++++ 578413	11781 1122711	55642	112729	286237	+++++ 50.0	1.00 100	5.00	10.0	25.0
Methylcyclohexane	FB	Ave	+++++ 918457	19268 1784816	95245	185436	469709	+++++ 50.0	1.00 100	5.00	10.0	25.0
1,2-Dichloropropane	FB	Ave	+++++ 623174	12388 1218946	61801	121864	305900	+++++ 50.0	1.00 100	5.00	10.0	25.0
1,4-Dioxane	CBNZ d5	Ave	1256 186450	3048 357997	17045	36549	91301	10.0 1000	20.0 2000	100	200	500
Dibromomethane	FB	Ave	+++++ 384421	7802 747958	36374	74265	188896	+++++ 50.0	1.00 100	5.00	10.0	25.0
Bromodichloromethane	FB	Ave	+++++ 713866	12893 1427981	64602	130564	343300	+++++ 50.0	1.00 100	5.00	10.0	25.0
2-Chloroethyl vinyl ether	FB	Ave	+++++ 518558	9578 1013143	47817	95146	246566	+++++ 50.0	1.00 100	5.00	10.0	25.0
cis-1,3-Dichloropropene	FB	Ave	8785 913412	16340 1797249	85873	170334	441047	0.500 50.0	1.00 100	5.00	10.0	25.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	61202 5289843	112886 8981923	554344	1110347	2758992	2.50 250	5.00 500	25.0	50.0	125
Toluene	CBNZ d5	Ave	+++++ 1358005	28870 2593435	133384	266265	676490	+++++ 50.0	1.00 100	5.00	10.0	25.0
Ethyl methacrylate	CBNZ d5	Ave	8006 822979	15829 1558515	75067	156033	399664	0.500 50.0	1.00 100	5.00	10.0	25.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	+++++ 846709	15783 1598119	76852	160258	409702	+++++ 50.0	1.00 100	5.00	10.0	25.0
1,1,2-Trichloroethane	CBNZ d5	Ave	+++++ 432632	8340 834094	42332	83304	209121	+++++ 50.0	1.00 100	5.00	10.0	25.0
Tetrachloroethene	CBNZ d5	Ave	+++++ 568994	12544 1028960	61003	117097	297361	+++++ 50.0	1.00 100	5.00	10.0	25.0
2-Hexanone	CBNZ d5	Ave	+++++ 3679249	82222 6041070	398535	785106	1937075	+++++ 250	5.00 500	25.0	50.0	125
1,3-Dichloropropane	CBNZ d5	Ave	+++++ 816626	16939 1435348	85106	167521	417086	+++++ 50.0	1.00 100	5.00	10.0	25.0
Dibromochloromethane	CBNZ d5	Ave	5787 628353	10013 1256560	53276	108205	296969	0.500 50.0	1.00 100	5.00	10.0	25.0
1,2-Dibromoethane	CBNZ d5	Ave	+++++ 612928	10951 1178336	57450	113900	291834	+++++ 50.0	1.00 100	5.00	10.0	25.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1 Analy Batch No.: 320502

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/15/2016 15:01 Calibration End Date: 09/15/2016 17:44 Calibration ID: 28332

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorobenzene	CBNZ d5	Ave	+++++ 1527496	31445 2910017	147605	302644	753992	+++++ 50.0	1.00 100	5.00	10.0	25.0
Ethylbenzene	CBNZ d5	Ave	+++++ 2451343	50823 4462216	251601	496210	1244016	+++++ 50.0	1.00 100	5.00	10.0	25.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	5910 572718	11195 1070301	54216	114062	285062	0.500 50.0	1.00 100	5.00	10.0	25.0
m,p-Xylene	CBNZ d5	Ave	11560 1044653	20578 1957688	103541	204115	517725	0.500 50.0	1.00 100	5.00	10.0	25.0
o-Xylene	CBNZ d5	Ave	+++++ 1041543	21794 1885601	104284	210300	532782	+++++ 50.0	1.00 100	5.00	10.0	25.0
Styrene	CBNZ d5	Ave	+++++ 1672871	32463 3023135	167348	337071	852802	+++++ 50.0	1.00 100	5.00	10.0	25.0
Bromoform	CBNZ d5	Ave	+++++ 440452	6528 891096	34036	71894	201665	+++++ 50.0	1.00 100	5.00	10.0	25.0
Isopropylbenzene	DCBd 4	Ave	+++++ 2633138	52858 4912809	262649	527853	1322020	+++++ 50.0	1.00 100	5.00	10.0	25.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	+++++ 817236	15454 1593538	75453	154522	400892	+++++ 50.0	1.00 100	5.00	10.0	25.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	3732 367394	6101 700111	34532	71006	179761	0.500 50.0	1.00 100	5.00	10.0	25.0
1,2,3-Trichloropropane	DCBd 4	Ave	2443 232977	5100 415605	25137	50934	122337	0.500 50.0	1.00 100	5.00	10.0	25.0
Bromobenzene	DCBd 4	Ave	+++++ 636814	13672 1134597	66670	130527	322190	+++++ 50.0	1.00 100	5.00	10.0	25.0
N-Propylbenzene	DCBd 4	Ave	+++++ 2885078	62191 4954182	306884	606265	1475730	+++++ 50.0	1.00 100	5.00	10.0	25.0
2-Chlorotoluene	DCBd 4	Ave	+++++ 613466	13522 1099294	64468	129309	322287	+++++ 50.0	1.00 100	5.00	10.0	25.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	+++++ 2154651	43936 3835275	222436	437940	1114121	+++++ 50.0	1.00 100	5.00	10.0	25.0
4-Chlorotoluene	DCBd 4	Ave	+++++ 668494	13193 1247938	67165	132487	332157	+++++ 50.0	1.00 100	5.00	10.0	25.0
tert-Butylbenzene	DCBd 4	Ave	+++++ 496759	9833 945588	49723	99230	248182	+++++ 50.0	1.00 100	5.00	10.0	25.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	+++++ 2319070	46545 4258254	227601	467242	1171357	+++++ 50.0	1.00 100	5.00	10.0	25.0
sec-Butylbenzene	DCBd 4	Ave	+++++ 2862465	56386 5310384	284363	568941	1436274	+++++ 50.0	1.00 100	5.00	10.0	25.0
4-Isopropyltoluene	DCBd 4	Ave	+++++ 2509444	50217 4644201	249904	497421	1263964	+++++ 50.0	1.00 100	5.00	10.0	25.0
1,3-Dichlorobenzene	DCBd 4	Ave	+++++ 1323414	28149 2461460	133843	264590	665756	+++++ 50.0	1.00 100	5.00	10.0	25.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1 Analy Batch No.: 320502

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/15/2016 15:01 Calibration End Date: 09/15/2016 17:44 Calibration ID: 28332

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,4-Dichlorobenzene	DCBd 4	Ave	+++++ 1332264	27512 2467700	134421	267154	664185	+++++ 50.0	1.00 100	5.00	10.0	25.0
n-Butylbenzene	DCBd 4	Ave	+++++ 2169583	42278 4060910	216172	429609	1092462	+++++ 50.0	1.00 100	5.00	10.0	25.0
1,2-Dichlorobenzene	DCBd 4	Ave	+++++ 1351260	27682 2537224	131900	264838	668330	+++++ 50.0	1.00 100	5.00	10.0	25.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	+++++ 230770	3822 455600	19559	40726	108433	+++++ 50.0	1.00 100	5.00	10.0	25.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	+++++ 1005299	19976 1928718	98059	200952	501375	+++++ 50.0	1.00 100	5.00	10.0	25.0
Hexachlorobutadiene	DCBd 4	Ave	+++++ 371454	7532 739579	36847	73089	189736	+++++ 50.0	1.00 100	5.00	10.0	25.0
Naphthalene	DCBd 4	Ave	+++++ 3395975	65816 6396745	326697	669741	1697535	+++++ 50.0	1.00 100	5.00	10.0	25.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	10619 988052	19708 1907403	98190	191633	485831	0.500 50.0	1.00 100	5.00	10.0	25.0
Dibromofluoromethane (Surr)	FB	Ave	188755 192253	188826 193867	185614	189512	191555	25.0 25.0	25.0 25.0	25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	123016 124498	120571 127555	124167	121564	124198	25.0 25.0	25.0 25.0	25.0	25.0	25.0
Toluene-d8 (Surr)	CBNZ d5	Ave	672122 700527	670320 709922	667117	684473	685775	25.0 25.0	25.0 25.0	25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	227273 240087	232255 241722	230469	233220	235975	25.0 25.0	25.0 25.0	25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1 Analy Batch No.: 320502

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/15/2016 15:01 Calibration End Date: 09/15/2016 17:44 Calibration ID: 28332

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-320502/5	P0159.D
Level 2	IC 480-320502/6	P0160.D
Level 3	IC 480-320502/7	P0161.D
Level 4	IC 480-320502/8	P0162.D
Level 5	ICIS 480-320502/9	P0163.D
Level 6	IC 480-320502/10	P0164.D
Level 7	IC 480-320502/11	P0165.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane	-2.1 -3.7	2.5	6.0	-1.9	-0.8	0.0	30 30	30	30	30	30	30
Chloromethane	+++++ -3.8	8.4	-1.7	0.3	-0.3	-2.8	30	30	30	30	30	30
Vinyl chloride	-6.4 -3.6	8.1	2.2	-0.8	2.4	-1.9	30 30	30	30	30	30	30
Butadiene	+++++ -5.9	9.2	1.5	-1.5	0.0	-3.3	30	30	30	30	30	30
Bromomethane	7.3 -0.9	20.0	-7.6	-6.6	-10.2	-2.1	30 30	30	30	30	30	30
Chloroethane	+++++ 1.5	0.6	8.4	-5.6	-1.1	-3.7	30	30	30	30	30	30
Dichlorofluoromethane	+++++ -8.0	12.2	-2.1	-4.4	-6.5	8.8	30	30	30	30	30	30
Trichlorofluoromethane	0.7 -1.5	-2.1	0.2	-0.8	0.0	3.4	30 30	30	30	30	30	30
Ethyl ether	+++++ -4.2	-0.3	2.4	0.3	1.7	0.2	30	30	30	30	30	30
Acrolein	+++++ 3.6	-11.7	-7.5	1.1	7.0	7.4	30	30	30	30	30	30
1,1,2-Trichloro-1,2,2-trifluoroethane	6.6 -9.8	3.7	3.8	0.4	-0.5	-4.3	30 30	30	30	30	30	30
1,1-Dichloroethene	+++++ -7.8	4.4	5.1	0.5	1.7	-3.9	30	30	30	30	30	30
Acetone	+++++ -8.5	13.0	-1.4	-0.3	-0.4	-2.3	30	30	30	30	30	30
Iodomethane	+++++ -4.5	1.1	1.4	0.6	2.3	-0.9	30	30	30	30	30	30
Carbon disulfide	+++++ -9.6	5.9	2.8	-3.2	2.8	1.2	30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1 Analy Batch No.: 320502

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/15/2016 15:01 Calibration End Date: 09/15/2016 17:44 Calibration ID: 28332

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Methyl acetate	13.5 -13.6	0.8	1.3	0.1	0.2	-2.4	30 30	30	30	30	30	30
Allyl chloride	+++++ -13.5	21.7	0.4	-1.4	-0.5	-6.6	30	30	30	30	30	30
Methylene Chloride	+++++ -2.5	-5.1	-2.4	3.0	4.6	2.4	30	30	30	30	30	30
2-Methyl-2-propanol	10.7 -6.9	1.1	-1.0	-2.3	-1.2	-0.5	30 30	30	30	30	30	30
Methyl tert-butyl ether	+++++ -9.0	6.1	2.4	0.7	2.0	-2.3	30	30	30	30	30	30
Acrylonitrile	19.2 -16.7	2.9	0.2	0.2	-0.4	-5.3	30 30	30	30	30	30	30
trans-1,2-Dichloroethene	+++++ -14.3	11.6	5.1	2.0	1.9	-6.4	30	30	30	30	30	30
Hexane	+++++ -7.7	6.7	5.6	-1.1	1.0	-4.4	30	30	30	30	30	30
Vinyl acetate	+++++ -7.5	2.4	2.2	0.4	2.0	0.5	30	30	30	30	30	30
1,1-Dichloroethane	17.6 -9.8	1.9	-0.7	-3.1	-1.0	-4.8	30 30	30	30	30	30	30
2-Butanone (MEK)	3.4 -7.8	3.3	2.4	-0.2	-0.4	-0.6	30 30	30	30	30	30	30
2,2-Dichloropropane	+++++ -11.1	6.3	4.7	2.0	2.0	-3.9	30	30	30	30	30	30
cis-1,2-Dichloroethene	+++++ -9.6	8.3	1.6	0.6	2.2	-3.2	30	30	30	30	30	30
Chlorobromomethane	-2.4 -5.2	5.4	1.6	-1.3	2.4	-0.5	30 30	30	30	30	30	30
Tetrahydrofuran	+++++ -12.6	17.8	2.9	-2.5	-1.5	-4.0	30	30	30	30	30	30
Chloroform	+++++ -9.9	13.0	0.8	-0.6	0.2	-3.6	30	30	30	30	30	30
1,1,1-Trichloroethane	+++++ -3.8	0.0	0.2	1.2	2.5	-0.1	30	30	30	30	30	30
Cyclohexane	+++++ -8.7	8.1	3.9	-0.4	0.9	-3.9	30	30	30	30	30	30
Isobutyl alcohol	-4.4 -4.4	-14.4	3.3	5.3	8.2	6.5	30 30	30	30	30	30	30
1,1-Dichloropropene	+++++ -12.1	5.5	7.2	1.6	1.6	-3.8	30	30	30	30	30	30
Carbon tetrachloride	+++++ -6.4	-0.7	2.2	2.4	3.2	-0.7	30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1 Analy Batch No.: 320502

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/15/2016 15:01 Calibration End Date: 09/15/2016 17:44 Calibration ID: 28332

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Benzene	+++++ -8.3	5.9	3.5	-0.2	0.8	-1.7	30	30	30	30	30	30
1,2-Dichloroethane	+++++ -9.2	8.8	1.9	0.4	0.5	-2.5	30	30	30	30	30	30
n-Heptane	+++++ -15.7	29.6	6.7	-3.2	-6.4	-11.0	30	30	30	30	30	30
Trichloroethene	+++++ -5.1	4.3	0.3	-0.2	1.2	-0.4	30	30	30	30	30	30
Methylcyclohexane	+++++ -7.8	4.3	4.9	0.3	1.5	-3.3	30	30	30	30	30	30
1,2-Dichloropropane	+++++ -4.5	1.7	3.2	-0.1	0.2	-0.5	30	30	30	30	30	30
1,4-Dioxane	-23.1 3.5	-8.7	2.4	9.3	8.7	8.0	30 30	30	30	30	30	30
Dibromomethane	+++++ -4.3	4.5	-0.8	-0.6	1.0	0.2	30	30	30	30	30	30
Bromodichloromethane	+++++ 1.8	-3.7	-1.8	-2.5	2.4	3.7	30	30	30	30	30	30
2-Chloroethyl vinyl ether	+++++ -0.7	-1.6	-0.1	-2.3	1.1	3.6	30	30	30	30	30	30
cis-1,3-Dichloropropene	2.6 -0.8	-5.5	1.0	-1.6	1.8	2.7	30 30	30	30	30	30	30
4-Methyl-2-pentanone (MIBK)	15.4 -20.0	4.2	2.6	2.3	1.1	-5.6	30 30	30	30	30	30	30
Toluene	+++++ -6.4	8.0	0.1	-0.6	0.6	-1.8	30	30	30	30	30	30
Ethyl methacrylate	4.4 -4.0	1.1	-3.9	-0.6	1.4	1.6	30 30	30	30	30	30	30
trans-1,3-Dichloropropene	+++++ -2.9	-0.6	-2.9	0.7	2.5	3.1	30	30	30	30	30	30
1,1,2-Trichloroethane	+++++ -3.1	0.4	2.2	0.0	0.0	0.6	30	30	30	30	30	30
Tetrachloroethene	+++++ -13.9	8.8	6.1	1.3	2.4	-4.7	30	30	30	30	30	30
2-Hexanone	+++++ -21.7	10.4	7.3	5.2	3.3	-4.5	30	30	30	30	30	30
1,3-Dichloropropane	+++++ -14.3	4.9	5.7	3.5	2.6	-2.3	30	30	30	30	30	30
Dibromochloromethane	4.3 6.9	-11.7	-5.8	-4.8	4.0	7.1	30 30	30	30	30	30	30
1,2-Dibromoethane	+++++ -0.6	-4.3	0.7	-0.6	1.3	3.5	30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1 Analy Batch No.: 320502

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/15/2016 15:01 Calibration End Date: 09/15/2016 17:44 Calibration ID: 28332

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Chlorobenzene	+++++ -5.8	5.5	-0.7	1.4	0.5	-0.9	30	30	30	30	30	30
Ethylbenzene	+++++ -11.1	4.9	4.2	2.2	2.0	-2.2	30	30	30	30	30	30
1,1,1,2-Tetrachloroethane	8.0 -7.6	0.2	-2.7	1.8	1.3	-1.0	30 30	30	30	30	30	30
m,p-Xylene	14.0 -8.8	-0.6	0.3	-1.6	-0.7	-2.5	30 30	30	30	30	30	30
o-Xylene	+++++ -11.4	6.2	1.9	2.2	3.1	-2.0	30	30	30	30	30	30
Styrene	+++++ -10.3	-0.1	3.2	3.5	4.2	-0.5	30	30	30	30	30	30
Bromoform	+++++ 13.0	-14.2	-10.3	-5.7	5.3	11.9	30	30	30	30	30	30
Isopropylbenzene	+++++ -3.7	0.0	2.1	0.0	1.0	0.6	30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	+++++ 3.6	-3.0	-2.7	-2.9	1.5	3.6	30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	7.1 1.8	-14.3	-0.4	-0.2	1.8	4.2	30 30	30	30	30	30	30
1,2,3-Trichloropropane	1.9 -12.2	4.1	5.4	4.0	0.7	-4.0	30 30	30	30	30	30	30
Bromobenzene	+++++ -9.7	5.1	5.3	0.4	-0.1	-1.2	30	30	30	30	30	30
N-Propylbenzene	+++++ -13.3	5.1	6.6	2.6	0.6	-1.6	30	30	30	30	30	30
2-Chlorotoluene	+++++ -10.7	6.1	3.9	1.5	2.0	-2.8	30	30	30	30	30	30
1,3,5-Trimethylbenzene	+++++ -8.9	0.7	4.8	0.5	3.1	-0.2	30	30	30	30	30	30
4-Chlorotoluene	+++++ -3.2	-1.2	3.4	-0.6	0.4	1.1	30	30	30	30	30	30
tert-Butylbenzene	+++++ -1.8	-1.4	2.5	-0.4	0.4	0.6	30	30	30	30	30	30
1,2,4-Trimethylbenzene	+++++ -4.9	0.3	0.8	0.8	1.9	1.0	30	30	30	30	30	30
sec-Butylbenzene	+++++ -3.7	-1.2	2.4	-0.2	1.5	1.2	30	30	30	30	30	30
4-Isopropyltoluene	+++++ -4.2	0.0	2.3	-0.8	1.6	1.0	30	30	30	30	30	30
1,3-Dichlorobenzene	+++++ -5.1	4.8	2.4	-1.4	0.0	-0.6	30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1 Analy Batch No.: 320502

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/15/2016 15:01 Calibration End Date: 09/15/2016 17:44 Calibration ID: 28332

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
1,4-Dichlorobenzene	+++++ -4.8	2.4	2.9	-0.4	-0.2	0.2	30	30	30	30	30	30
n-Butylbenzene	+++++ -2.8	-2.3	2.7	-0.6	1.9	1.2	30	30	30	30	30	30
1,2-Dichlorobenzene	+++++ -2.6	2.6	0.5	-1.7	0.0	1.2	30	30	30	30	30	30
1,2-Dibromo-3-Chloropropane	+++++ 10.3	-10.7	-6.1	-4.7	2.3	8.9	30	30	30	30	30	30
1,2,4-Trichlorobenzene	+++++ -0.7	-0.7	0.1	0.0	0.5	0.9	30	30	30	30	30	30
Hexachlorobutadiene	+++++ 1.6	-0.1	0.4	-3.0	1.6	-0.5	30	30	30	30	30	30
Naphthalene	+++++ -1.4	-2.1	-0.1	-0.3	1.9	2.0	30	30	30	30	30	30
1,2,3-Trichlorobenzene	8.5 -1.3	-1.5	0.8	-4.1	-2.0	-0.3	30 30	30	30	30	30	30
Dibromofluoromethane (Surr)	1.0 -1.9	0.1	0.1	0.4	1.3	-0.9	30 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	1.2 -0.8	-1.8	2.9	-1.0	1.0	-1.4	30 30	30	30	30	30	30
Toluene-d8 (Surr)	1.1 0.9	-1.3	-1.5	0.6	0.3	-0.3	30 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	-0.2 0.3	-0.1	-0.6	0.1	0.8	-0.2	30 30	30	30	30	30	30

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0159.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 15-Sep-2016 15:01:30 ALS Bottle#: 2 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 480-0056398-005
Operator ID: CDC Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub11

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Sep-2016 14:06:11 Calib Date: 15-Sep-2016 21:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: gentilej Date: 16-Sep-2016 10:28:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.821	9.833	-0.012	98	151705	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.763	13.763	0.000	87	299326	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.750	16.750	0.000	97	321271	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.018	9.018	0.000	93	188755	25.0	25.3	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.450	9.456	-0.006	0	123016	25.0	25.3	
$ 5 Toluene-d8 (Surr)	98	11.798	11.798	0.000	93	672122	25.0	25.3	
$ 6 4-Bromofluorobenzene (Surr	174	15.278	15.278	0.000	89	227273	25.0	25.0	
10 Dichlorodifluoromethane	85	3.969	3.987	-0.018	90	6179	0.5000	0.4894	
11 Chloromethane	50	4.273	4.297	-0.024	57	8455	0.5000	0.6396	
17 Vinyl chloride	62	4.498	4.516	-0.018	91	4479	0.5000	0.4678	
144 Butadiene	54	4.535	4.541	-0.006	88	6023	0.5000	0.5810	
12 Bromomethane	94	5.046	5.070	-0.024	45	2209	0.5000	0.5367	
13 Chloroethane	64	5.192	5.204	-0.012	35	2712	0.5000	0.5311	
19 Dichlorofluoromethane	67	5.484	5.484	0.000	94	9430	0.5000	0.5632	
14 Trichlorofluoromethane	101	5.557	5.599	-0.042	17	8916	0.5000	0.5036	
20 Ethyl ether	59	5.903	5.903	0.000	96	7067	0.5000	0.5984	
22 Acrolein	56	6.165	6.159	0.006	56	9145	2.50	3.14	
16 1,1,2-Trichloro-1,2,2-trif	101	6.238	6.238	0.000	89	6242	0.5000	0.5332	
25 1,1-Dichloroethene	96	6.293	6.293	0.000	93	6217	0.5000	0.6095	
24 Acetone	43	6.341	6.335	0.006	100	20998	2.50	3.37	
18 Iodomethane	142	6.567	6.554	0.012	99	10847	0.5000	0.5544	
27 Carbon disulfide	76	6.676	6.670	0.006	98	21326	0.5000	0.6192	
30 Methyl acetate	43	6.713	6.706	0.007	100	46362	2.50	2.84	
28 3-Chloro-1-propene	41	6.737	6.743	-0.006	82	13045	0.5000	0.5411	
31 Methylene Chloride	84	6.913	6.913	0.000	97	16688	0.5000	0.3236	
33 2-Methyl-2-propanol	59	6.950	6.944	0.006	79	15319	5.00	5.54	M
32 Methyl tert-butyl ether	73	7.169	7.169	0.000	98	20528	0.5000	0.5932	
34 Acrylonitrile	53	7.205	7.205	0.000	99	46287	5.00	5.96	
35 trans-1,2-Dichloroethene	96	7.236	7.236	0.000	95	6878	0.5000	0.6429	
36 Hexane	57	7.473	7.473	0.000	97	12727	0.5000	0.6661	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
38 Vinyl acetate	43	7.710	7.704	0.006	97	42495	1.00	1.20	
40 1,1-Dichloroethane	63	7.759	7.765	-0.006	94	13270	0.5000	0.5879	
44 2-Butanone (MEK)	43	8.416	8.404	0.012	98	28543	2.50	2.58	
45 2,2-Dichloropropane	77	8.452	8.458	-0.006	66	9417	0.5000	0.6074	
43 cis-1,2-Dichloroethene	96	8.459	8.458	0.000	84	7052	0.5000	0.6017	
50 Chlorobromomethane	128	8.781	8.775	0.006	73	2954	0.5000	0.4880	
51 Tetrahydrofuran	42	8.799	8.799	0.000	83	11015	1.00	1.44	
49 Chloroform	83	8.811	8.811	0.000	93	13411	0.5000	0.7380	
52 1,1,1-Trichloroethane	97	9.079	9.073	0.006	93	9518	0.5000	0.5816	
54 Cyclohexane	56	9.134	9.140	-0.006	89	17071	0.5000	0.6705	
53 Isobutyl alcohol	43	9.231	9.219	0.012	92	14845	12.5	12.0	
56 1,1-Dichloropropene	75	9.243	9.243	0.000	88	9280	0.5000	0.6501	
55 Carbon tetrachloride	117	9.274	9.274	0.000	57	8942	0.5000	0.5838	
57 Benzene	78	9.523	9.529	-0.006	94	24127	0.5000	0.5838	
60 1,2-Dichloroethane	62	9.547	9.547	0.000	93	10620	0.5000	0.6210	
59 n-Heptane	43	9.645	9.645	0.000	91	18285	0.5000	0.9070	
62 Trichloroethene	95	10.271	10.277	-0.006	91	6504	0.5000	0.5816	
64 Methylcyclohexane	83	10.515	10.509	0.006	94	11052	0.5000	0.6043	
63 1,2-Dichloropropane	63	10.582	10.588	-0.006	93	6776	0.5000	0.5616	
68 1,4-Dioxane	88	10.709	10.715	-0.006	1	1256	10.0	7.69	M
69 Dibromomethane	93	10.782	10.776	0.006	90	4115	0.5000	0.5568	
70 Dichlorobromomethane	83	10.910	10.916	-0.006	96	7725	0.5000	0.5829	
71 2-Chloroethyl vinyl ether	63	11.172	11.178	-0.006	87	5120	0.5000	0.5311	
73 cis-1,3-Dichloropropene	75	11.458	11.452	0.006	88	8785	0.5000	0.5128	
75 4-Methyl-2-pentanone (MIBK	43	11.555	11.561	-0.006	99	61202	2.50	2.89	
76 Toluene	92	11.896	11.890	0.006	98	15925	0.5000	0.6088	
77 Ethyl methacrylate	69	12.127	12.121	0.006	91	8006	0.5000	0.5222	
78 trans-1,3-Dichloropropene	75	12.157	12.151	0.006	92	8794	0.5000	0.5659	
79 1,1,2-Trichloroethane	83	12.431	12.437	-0.006	91	4987	0.5000	0.6130	
80 Tetrachloroethene	166	12.638	12.638	0.000	90	6620	0.5000	0.5863	
83 2-Hexanone	43	12.650	12.644	0.006	98	46344	2.50	3.18	
82 1,3-Dichloropropane	76	12.668	12.674	-0.006	98	9596	0.5000	0.6068	
81 Chlorodibromomethane	129	13.009	13.015	-0.006	88	5787	0.5000	0.5213	
85 Ethylene Dibromide	107	13.216	13.216	0.000	91	6816	0.5000	0.6086	
87 Chlorobenzene	112	13.800	13.806	-0.006	96	17476	0.5000	0.5991	
89 Ethylbenzene	91	13.873	13.873	0.000	99	29629	0.5000	0.6248	
88 1,1,1,2-Tetrachloroethane	131	13.885	13.891	-0.006	45	5910	0.5000	0.5401	
90 m-Xylene & p-Xylene	106	14.019	14.013	0.006	0	11560	0.5000	0.5702	
93 o-Xylene	106	14.560	14.560	0.000	95	11947	0.5000	0.5944	
94 Styrene	104	14.579	14.579	0.000	89	17963	0.5000	0.5645	
92 Bromoform	173	14.931	14.931	0.000	95	4213	0.5000	0.5656	
95 Isopropylbenzene	105	15.004	15.004	0.000	96	30024	0.5000	0.5807	
97 1,1,2,2-Tetrachloroethane	83	15.430	15.430	0.000	94	9076	0.5000	0.5821	
98 trans-1,4-Dichloro-2-buten	53	15.485	15.485	0.000	80	3732	0.5000	0.5355	
100 Bromobenzene	156	15.528	15.522	0.006	91	7125	0.5000	0.5598	
101 1,2,3-Trichloropropane	110	15.515	15.522	-0.007	63	2443	0.5000	0.5095	
99 N-Propylbenzene	91	15.540	15.534	0.006	96	34368	0.5000	0.5936	
103 2-Chlorotoluene	126	15.722	15.722	0.000	87	7685	0.5000	0.6161	
102 1,3,5-Trimethylbenzene	105	15.728	15.728	0.000	89	26445	0.5000	0.6197	
105 4-Chlorotoluene	126	15.850	15.850	0.000	96	8008	0.5000	0.6132	
106 tert-Butylbenzene	134	16.172	16.172	0.000	93	5694	0.5000	0.5837	
107 1,2,4-Trimethylbenzene	105	16.233	16.233	0.000	97	27321	0.5000	0.6020	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	16.440	16.440	0.000	94	32961	0.5000	0.5901	
112 4-Isopropyltoluene	119	16.592	16.592	0.000	97	27887	0.5000	0.5679	
110 1,3-Dichlorobenzene	146	16.677	16.677	0.000	95	15258	0.5000	0.5804	
111 1,4-Dichlorobenzene	146	16.787	16.787	0.000	92	15261	0.5000	0.5808	
115 n-Butylbenzene	91	17.109	17.109	0.000	97	26020	0.5000	0.6145	
116 1,2-Dichlorobenzene	146	17.274	17.267	0.007	95	15731	0.5000	0.5961	
117 1,2-Dibromo-3-Chloropropan	75	18.247	18.241	0.006	83	2410	0.5000	0.5757	
119 1,2,4-Trichlorobenzene	180	19.318	19.318	0.000	91	11968	0.5000	0.6078	
120 Hexachlorobutadiene	225	19.476	19.470	0.006	89	4207	0.5000	0.5703	
121 Naphthalene	128	19.713	19.713	0.000	97	36907	0.5000	0.5611	
122 1,2,3-Trichlorobenzene	180	20.078	20.072	0.006	92	10619	0.5000	0.5423	
S 123 1,2-Dichloroethene, Total	1				0			1.24	
S 124 1,3-Dichloropropene, Total	1				0			1.08	
S 125 Total BTEX	1				0			2.98	
S 126 Xylenes, Total	1				0			1.16	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00082	Amount Added:	0.50	Units: uL	
GAS CORP mix_00178	Amount Added:	0.50	Units: uL	
P 8260 IS_00166	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00195	Amount Added:	1.25	Units: uL	Run Reagent

Report Date: 16-Sep-2016 14:06:12 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0159.D

Injection Date: 15-Sep-2016 15:01:30 Instrument ID: HP5973P Operator ID: CDC

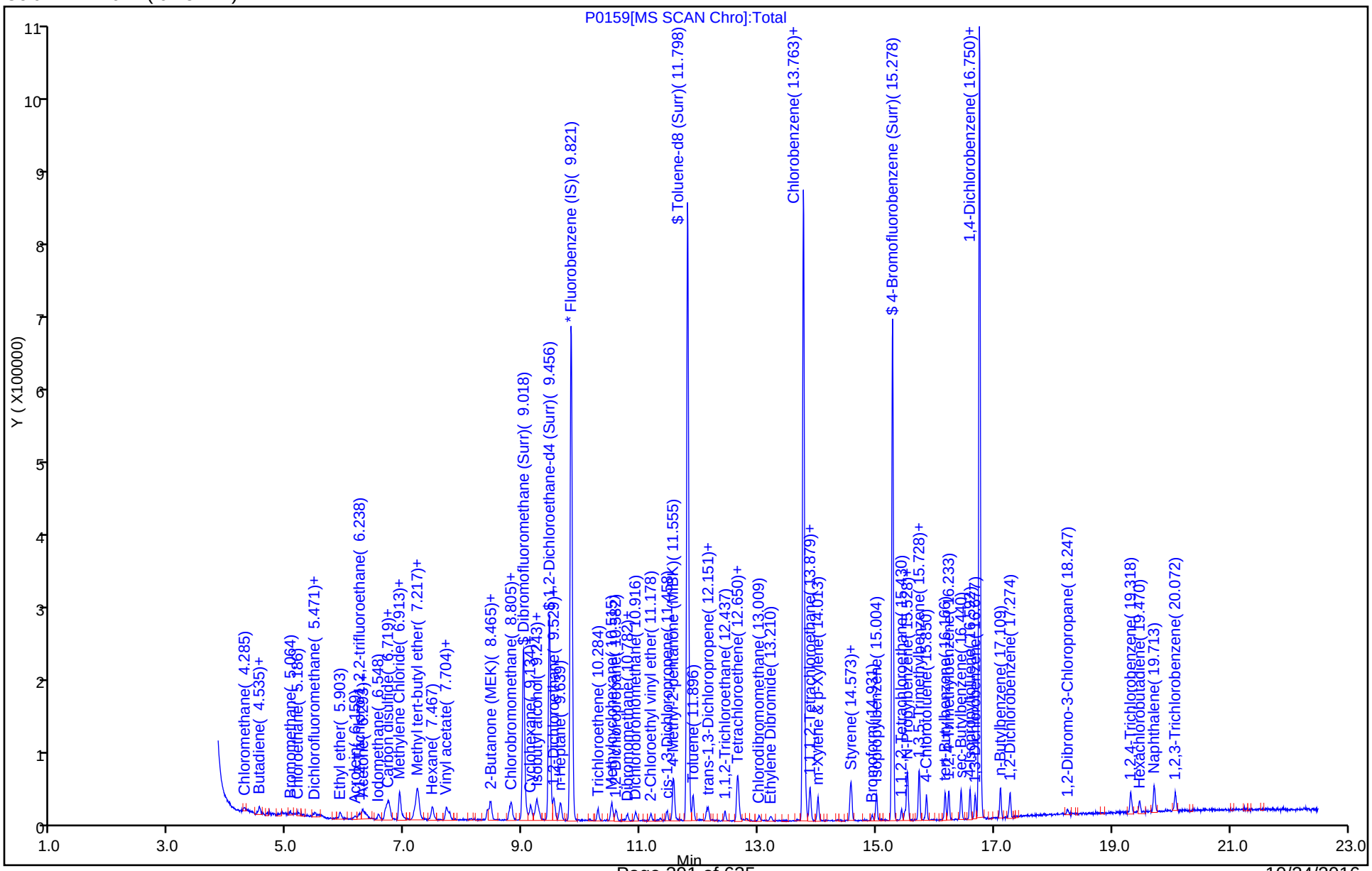
Lims ID: IC Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: P-8260H2O Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

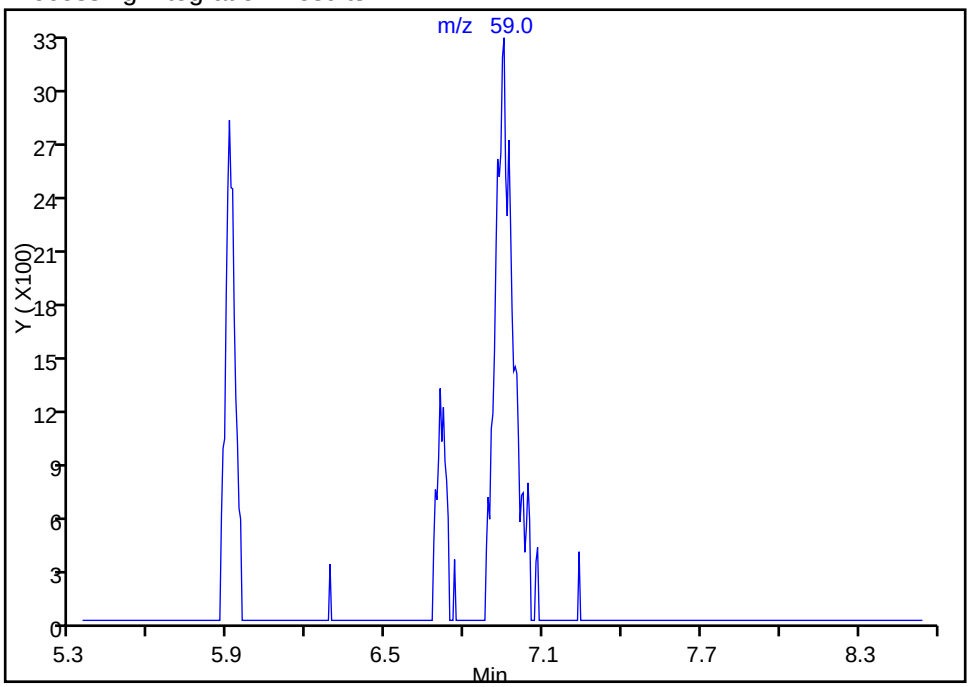
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0159.D				
Injection Date:	15-Sep-2016 15:01:30	Instrument ID:	HP5973P		
Lims ID:	IC				
Client ID:					
Operator ID:	CDC	ALS Bottle#:	2	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

33 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

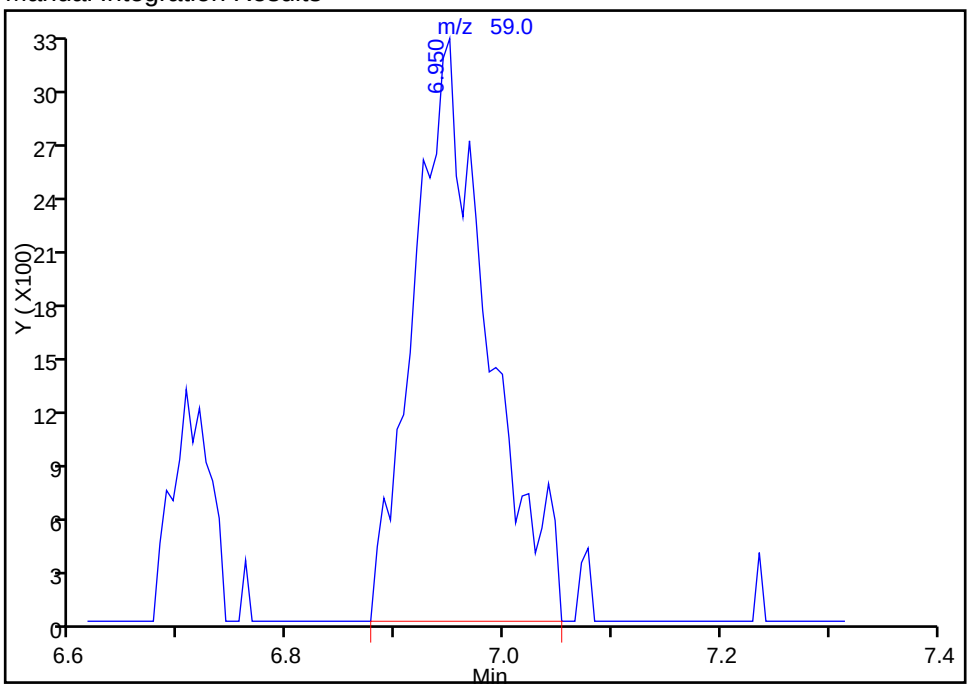
Not Detected
Expected RT: 6.94

Processing Integration Results



Manual Integration Results

RT: 6.95
Area: 15319
Amount: 5.536916
Amount Units: ug/L



Reviewer: gentilej, 16-Sep-2016 10:28:19
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

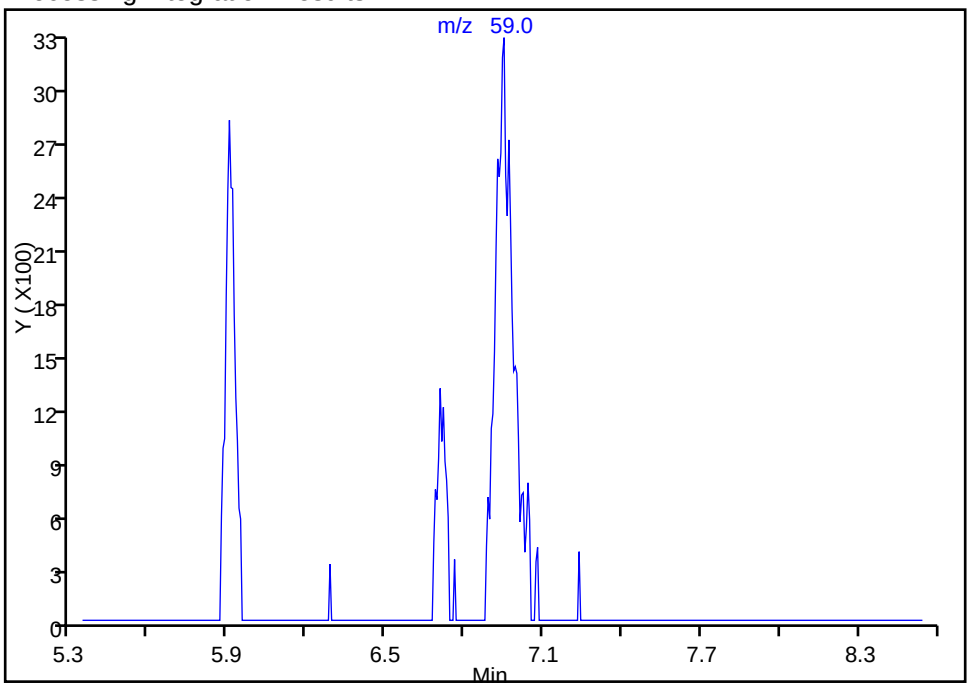
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0159.D				
Injection Date:	15-Sep-2016 15:01:30	Instrument ID:	HP5973P		
Lims ID:	IC				
Client ID:					
Operator ID:	CDC	ALS Bottle#:	2	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

33 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

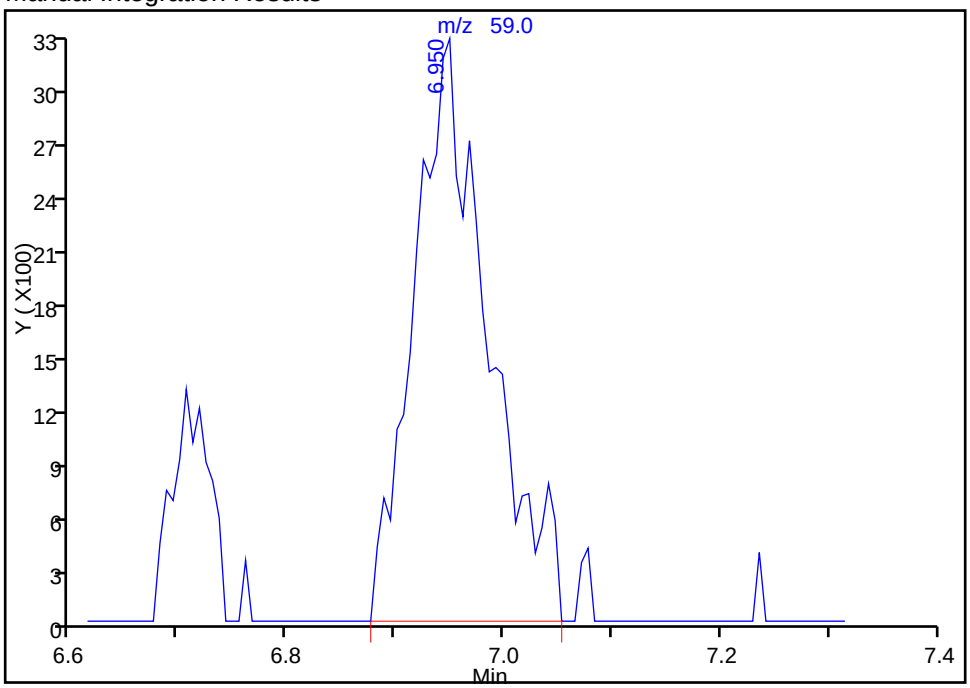
Processing Integration Results

Not Detected
Expected RT: 6.94



Manual Integration Results

RT: 6.95
Area: 15319
Amount: 5.536916
Amount Units: ug/L



Reviewer: cwiklinc, 16-Sep-2016 13:04:10
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

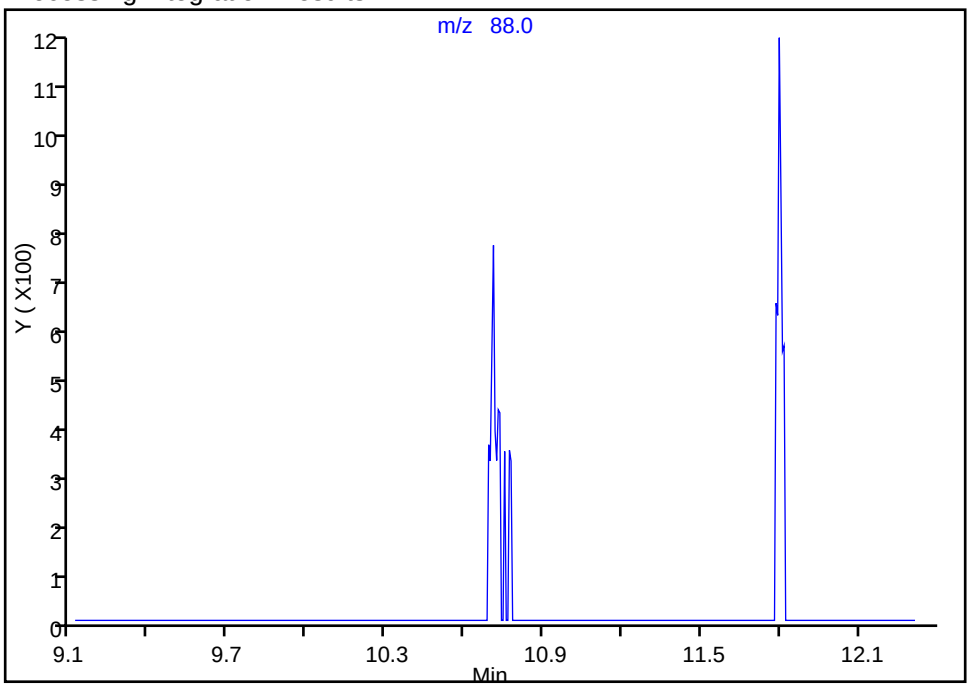
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0159.D				
Injection Date:	15-Sep-2016 15:01:30	Instrument ID:	HP5973P		
Lims ID:	IC				
Client ID:					
Operator ID:	CDC	ALS Bottle#:	2	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

68 1,4-Dioxane, CAS: 123-91-1

Signal: 1

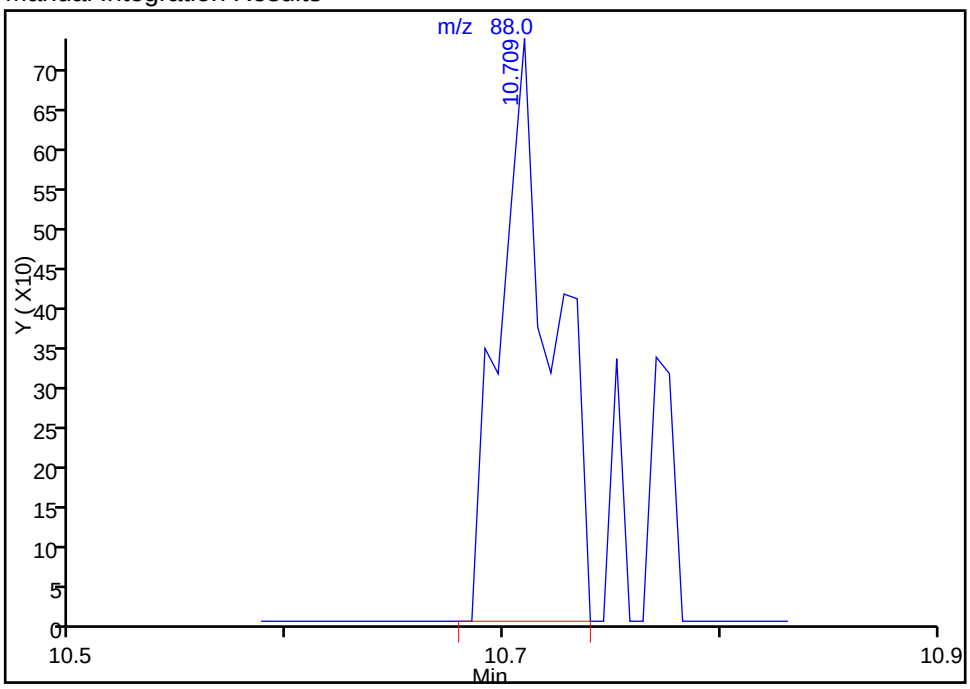
Not Detected
Expected RT: 10.72

Processing Integration Results



RT: 10.71
Area: 1256
Amount: 7.687879
Amount Units: ug/L

Manual Integration Results



Reviewer: gentilej, 16-Sep-2016 10:28:19
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

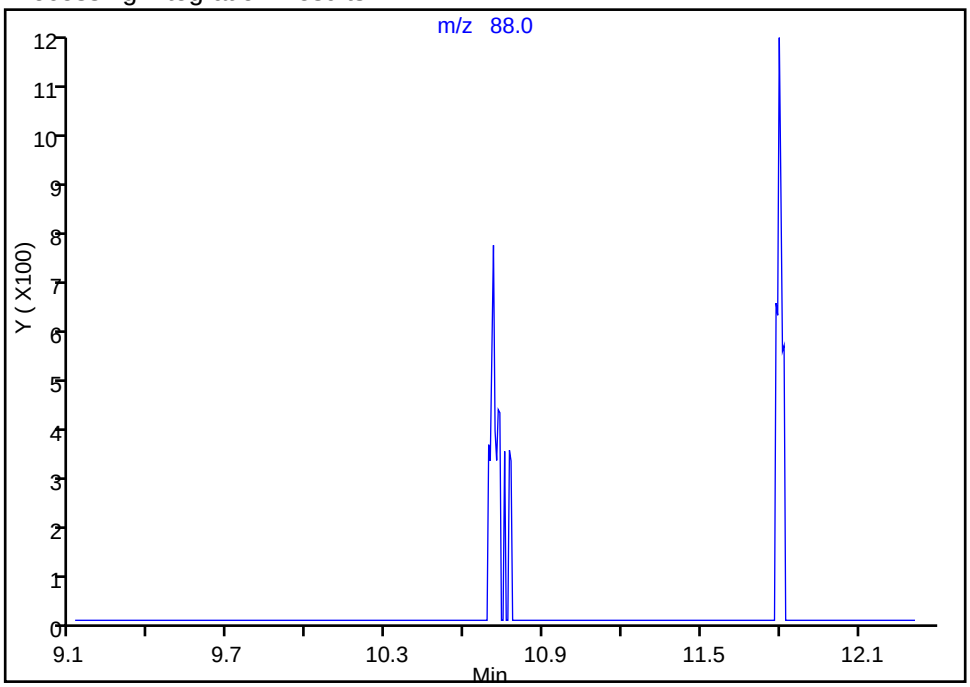
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0159.D				
Injection Date:	15-Sep-2016 15:01:30	Instrument ID:	HP5973P		
Lims ID:	IC				
Client ID:					
Operator ID:	CDC	ALS Bottle#:	2	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

68 1,4-Dioxane, CAS: 123-91-1

Signal: 1

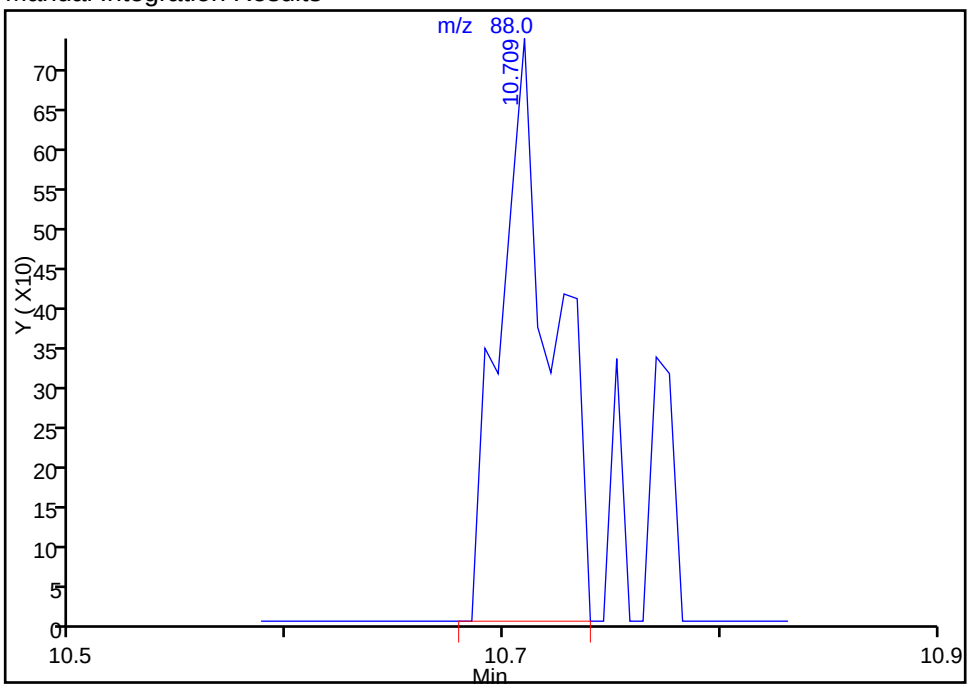
Not Detected
Expected RT: 10.72

Processing Integration Results



RT: 10.71
Area: 1256
Amount: 7.687879
Amount Units: ug/L

Manual Integration Results



Reviewer: gentilej, 16-Sep-2016 10:28:19
Audit Action: Manually Integrated Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0160.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 15-Sep-2016 15:28:30 ALS Bottle#: 3 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 2
Misc. Info.: 480-0056398-006
Operator ID: CDC Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub11

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Sep-2016 14:06:19 Calib Date: 15-Sep-2016 21:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: gentilej Date: 16-Sep-2016 10:29:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.827	9.833	-0.006	98	153202	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.763	13.763	0.000	87	305750	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.750	16.750	0.000	96	328366	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.018	9.018	0.000	93	188826	25.0	25.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.456	9.456	0.000	0	120571	25.0	24.6	
$ 5 Toluene-d8 (Surr)	98	11.798	11.798	0.000	92	670320	25.0	24.7	
$ 6 4-Bromofluorobenzene (Surr	174	15.278	15.278	0.000	90	232255	25.0	25.0	
10 Dichlorodifluoromethane	85	3.993	3.987	0.006	95	13065	1.00	1.02	
11 Chloromethane	50	4.291	4.297	-0.006	96	14466	1.00	1.08	
17 Vinyl chloride	62	4.510	4.516	-0.006	95	10447	1.00	1.08	
144 Butadiene	54	4.541	4.541	0.000	97	11429	1.00	1.09	
12 Bromomethane	94	5.058	5.070	-0.012	95	4989	1.00	1.20	
13 Chloroethane	64	5.204	5.204	0.000	96	5187	1.00	1.01	
19 Dichlorofluoromethane	67	5.484	5.484	0.000	96	18980	1.00	1.12	
14 Trichlorofluoromethane	101	5.611	5.599	0.012	87	17509	1.00	0.9794	
20 Ethyl ether	59	5.916	5.903	0.013	96	11894	1.00	1.00	
22 Acrolein	56	6.165	6.159	0.006	96	12978	5.00	4.42	
16 1,1,2-Trichloro-1,2,2-trif	101	6.238	6.238	0.000	91	12256	1.00	1.04	
25 1,1-Dichloroethene	96	6.293	6.293	0.000	94	10757	1.00	1.04	
24 Acetone	43	6.341	6.335	0.006	100	35529	5.00	5.65	
18 Iodomethane	142	6.560	6.554	0.006	99	19979	1.00	1.01	
27 Carbon disulfide	76	6.682	6.670	0.012	100	36841	1.00	1.06	
30 Methyl acetate	43	6.713	6.706	0.007	100	83195	5.00	5.04	
28 3-Chloro-1-propene	41	6.743	6.743	0.000	88	29623	1.00	1.22	
31 Methylene Chloride	84	6.913	6.913	0.000	94	23318	1.00	0.9486	
33 2-Methyl-2-propanol	59	6.944	6.944	0.000	98	28253	10.0	10.1	M
32 Methyl tert-butyl ether	73	7.169	7.169	0.000	98	37088	1.00	1.06	
34 Acrylonitrile	53	7.211	7.205	0.006	95	80658	10.0	10.3	
35 trans-1,2-Dichloroethene	96	7.242	7.236	0.006	93	12060	1.00	1.12	
36 Hexane	57	7.473	7.473	0.000	95	20587	1.00	1.07	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
38 Vinyl acetate	43	7.716	7.704	0.012	97	73077	2.00	2.05	
40 1,1-Dichloroethane	63	7.765	7.765	0.000	96	23219	1.00	1.02	
44 2-Butanone (MEK)	43	8.410	8.404	0.006	98	57582	5.00	5.16	
45 2,2-Dichloropropane	77	8.459	8.458	0.000	67	16647	1.00	1.06	
43 cis-1,2-Dichloroethene	96	8.465	8.458	0.007	87	12824	1.00	1.08	
50 Chlorobromomethane	128	8.787	8.775	0.012	92	6444	1.00	1.05	
51 Tetrahydrofuran	42	8.805	8.799	0.006	89	18195	2.00	2.36	
49 Chloroform	83	8.811	8.811	0.000	92	20746	1.00	1.13	
52 1,1,1-Trichloroethane	97	9.073	9.073	0.000	96	16530	1.00	1.00	
54 Cyclohexane	56	9.140	9.140	0.000	90	27787	1.00	1.08	M
53 Isobutyl alcohol	43	9.213	9.219	-0.006	58	26830	25.0	21.4	
56 1,1-Dichloropropene	75	9.243	9.243	0.000	91	15212	1.00	1.06	
55 Carbon tetrachloride	117	9.280	9.274	0.006	95	15359	1.00	0.99	
57 Benzene	78	9.523	9.529	-0.006	96	44204	1.00	1.06	
60 1,2-Dichloroethane	62	9.554	9.547	0.007	94	18786	1.00	1.09	
59 n-Heptane	43	9.645	9.645	0.000	94	26391	1.00	1.30	
62 Trichloroethene	95	10.284	10.277	0.007	95	11781	1.00	1.04	
64 Methylcyclohexane	83	10.515	10.509	0.006	95	19268	1.00	1.04	
63 1,2-Dichloropropane	63	10.594	10.588	0.006	93	12388	1.00	1.02	
68 1,4-Dioxane	88	10.709	10.715	-0.006	55	3048	20.0	18.3	
69 Dibromomethane	93	10.776	10.776	0.000	93	7802	1.00	1.05	
70 Dichlorobromomethane	83	10.910	10.916	-0.006	92	12893	1.00	0.9634	
71 2-Chloroethyl vinyl ether	63	11.172	11.178	-0.006	88	9578	1.00	0.9839	
73 cis-1,3-Dichloropropene	75	11.458	11.452	0.006	91	16340	1.00	0.9445	
75 4-Methyl-2-pentanone (MIBK	43	11.561	11.561	0.000	99	112886	5.00	5.21	
76 Toluene	92	11.890	11.890	0.000	97	28870	1.00	1.08	
77 Ethyl methacrylate	69	12.115	12.121	-0.006	95	15829	1.00	1.01	
78 trans-1,3-Dichloropropene	75	12.151	12.151	0.000	93	15783	1.00	0.99	
79 1,1,2-Trichloroethane	83	12.431	12.437	-0.006	67	8340	1.00	1.00	
80 Tetrachloroethene	166	12.638	12.638	0.000	37	12544	1.00	1.09	
83 2-Hexanone	43	12.650	12.644	0.006	98	82222	5.00	5.52	
82 1,3-Dichloropropane	76	12.674	12.674	0.000	97	16939	1.00	1.05	
81 Chlorodibromomethane	129	13.015	13.015	0.000	90	10013	1.00	0.8830	
85 Ethylene Dibromide	107	13.210	13.216	-0.006	97	10951	1.00	0.9572	
87 Chlorobenzene	112	13.806	13.806	0.000	95	31445	1.00	1.06	
89 Ethylbenzene	91	13.873	13.873	0.000	98	50823	1.00	1.05	
88 1,1,1,2-Tetrachloroethane	131	13.885	13.891	-0.006	45	11195	1.00	1.00	
90 m-Xylene & p-Xylene	106	14.007	14.013	-0.006	0	20578	1.00	0.99	
93 o-Xylene	106	14.566	14.560	0.006	94	21794	1.00	1.06	
94 Styrene	104	14.579	14.579	0.000	94	32463	1.00	1.00	
92 Bromoform	173	14.931	14.931	0.000	92	6528	1.00	0.8580	
95 Isopropylbenzene	105	15.004	15.004	0.000	96	52858	1.00	1.00	
97 1,1,2,2-Tetrachloroethane	83	15.424	15.430	-0.006	95	15454	1.00	0.9698	
98 trans-1,4-Dichloro-2-buten	53	15.485	15.485	0.000	65	6101	1.00	0.8565	
100 Bromobenzene	156	15.522	15.522	0.000	90	13672	1.00	1.05	
101 1,2,3-Trichloropropane	110	15.522	15.522	0.000	65	5100	1.00	1.04	
99 N-Propylbenzene	91	15.534	15.534	0.000	98	62191	1.00	1.05	
103 2-Chlorotoluene	126	15.728	15.722	0.006	94	13522	1.00	1.06	
102 1,3,5-Trimethylbenzene	105	15.728	15.728	0.000	87	43936	1.00	1.01	
105 4-Chlorotoluene	126	15.850	15.850	0.000	97	13193	1.00	0.9884	
106 tert-Butylbenzene	134	16.172	16.172	0.000	94	9833	1.00	0.9862	
107 1,2,4-Trimethylbenzene	105	16.233	16.233	0.000	97	46545	1.00	1.00	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	16.446	16.440	0.006	94	56386	1.00	0.9876	
112 4-Isopropyltoluene	119	16.592	16.592	0.000	97	50217	1.00	1.00	
110 1,3-Dichlorobenzene	146	16.677	16.677	0.000	98	28149	1.00	1.05	
111 1,4-Dichlorobenzene	146	16.787	16.787	0.000	90	27512	1.00	1.02	
115 n-Butylbenzene	91	17.103	17.109	-0.006	97	42278	1.00	0.9769	
116 1,2-Dichlorobenzene	146	17.274	17.267	0.007	97	27682	1.00	1.03	
117 1,2-Dibromo-3-Chloropropan	75	18.235	18.241	-0.006	1	3822	1.00	0.8932	M
119 1,2,4-Trichlorobenzene	180	19.324	19.318	0.006	95	19976	1.00	0.99	
120 Hexachlorobutadiene	225	19.464	19.470	-0.006	93	7532	1.00	1.00	
121 Naphthalene	128	19.719	19.713	0.006	97	65816	1.00	0.9791	
122 1,2,3-Trichlorobenzene	180	20.072	20.072	0.000	96	19708	1.00	0.9848	
S 123 1,2-Dichloroethene, Total	1				0			2.20	
S 124 1,3-Dichloropropene, Total	1				0			1.94	
S 125 Total BTEX	1				0			5.24	
S 126 Xylenes, Total	1				0			2.06	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00082	Amount Added:	1.00	Units: uL	
GAS CORP mix_00178	Amount Added:	1.00	Units: uL	
P 8260 IS_00166	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00195	Amount Added:	1.25	Units: uL	Run Reagent

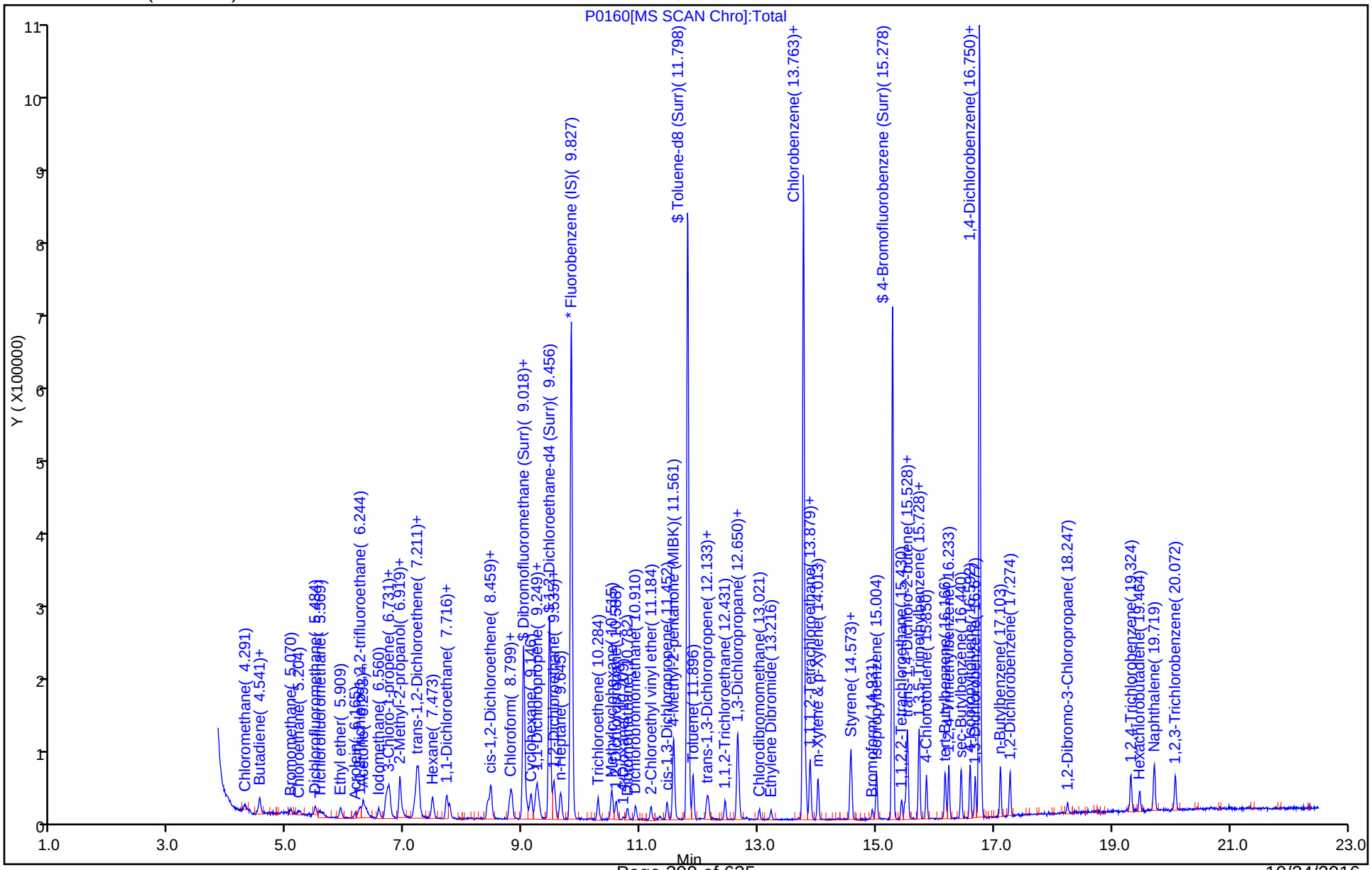
Report Date: 16-Sep-2016 14:06:20 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0160.D

Injection Date:	15-Sep-2016 15:28:30	Instrument ID:	HP5973P	Operator ID:	CDC
Lims ID:	IC 2			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

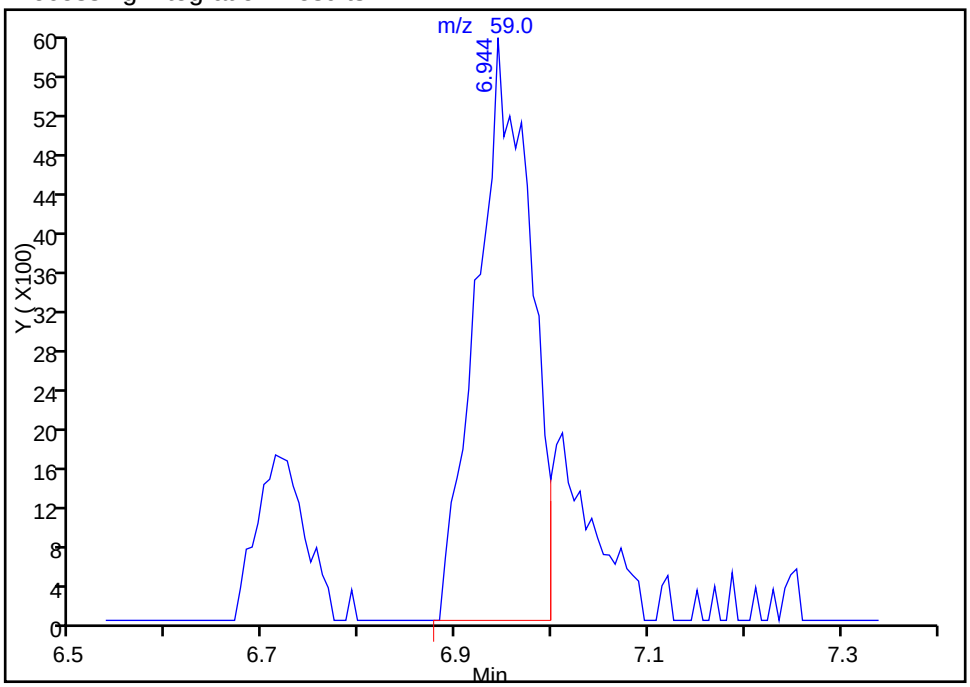
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0160.D				
Injection Date:	15-Sep-2016 15:28:30	Instrument ID:	HP5973P		
Lims ID:	IC 2				
Client ID:					
Operator ID:	CDC	ALS Bottle#:	3	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

33 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

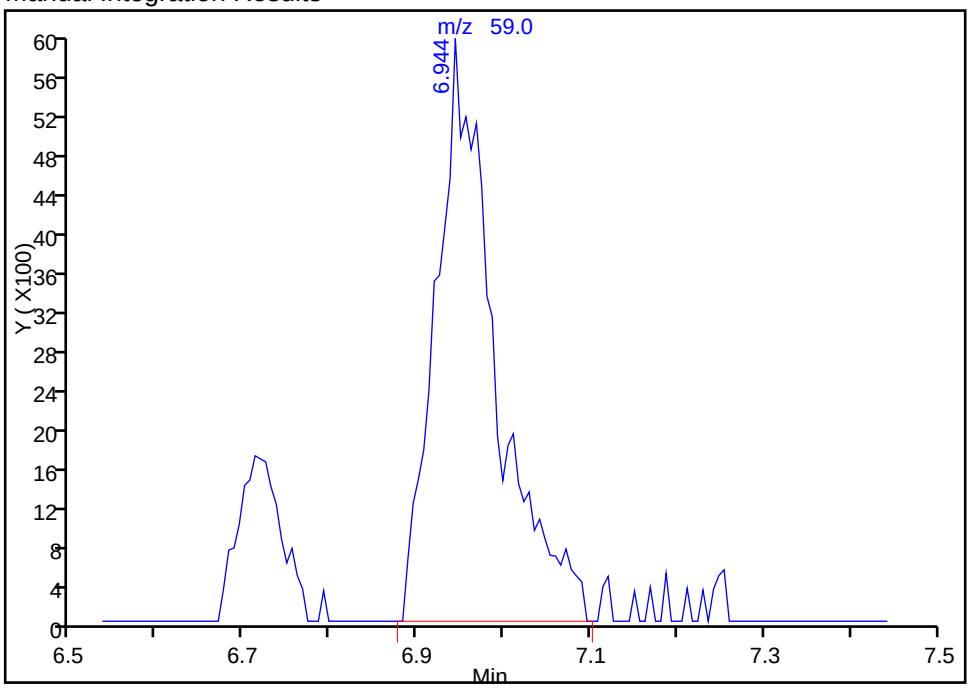
Processing Integration Results

RT: 6.94
Area: 22972
Amount: 8.510523
Amount Units: ug/L



Manual Integration Results

RT: 6.94
Area: 28253
Amount: 10.112012
Amount Units: ug/L



Reviewer: cwiklinc, 16-Sep-2016 13:03:50

Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

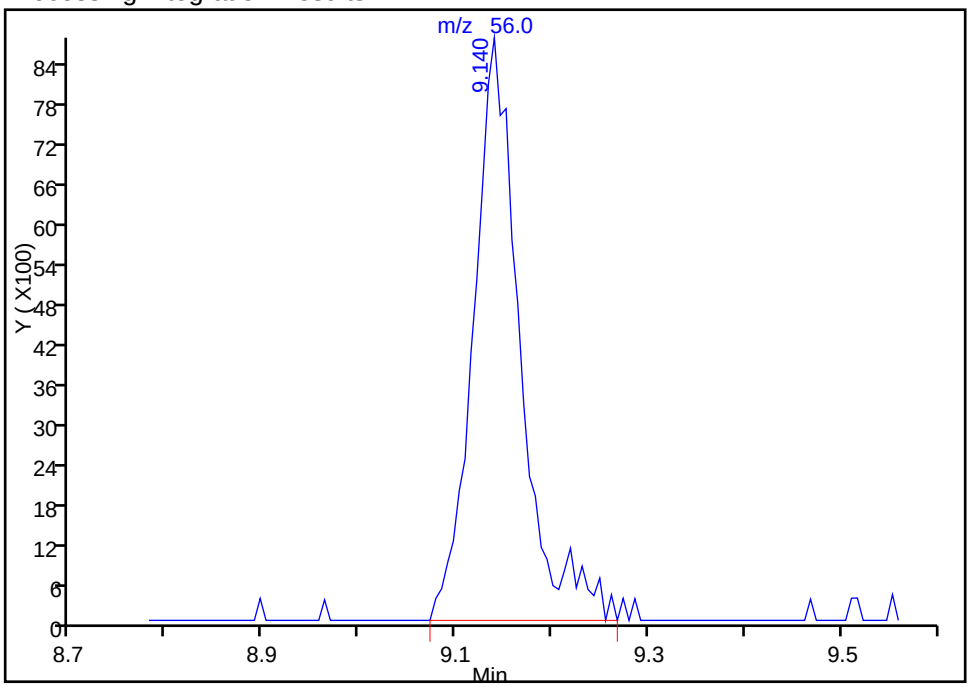
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0160.D				
Injection Date:	15-Sep-2016 15:28:30	Instrument ID:	HP5973P		
Lims ID:	IC 2				
Client ID:					
Operator ID:	CDC	ALS Bottle#:	3	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

54 Cyclohexane, CAS: 110-82-7

Signal: 1

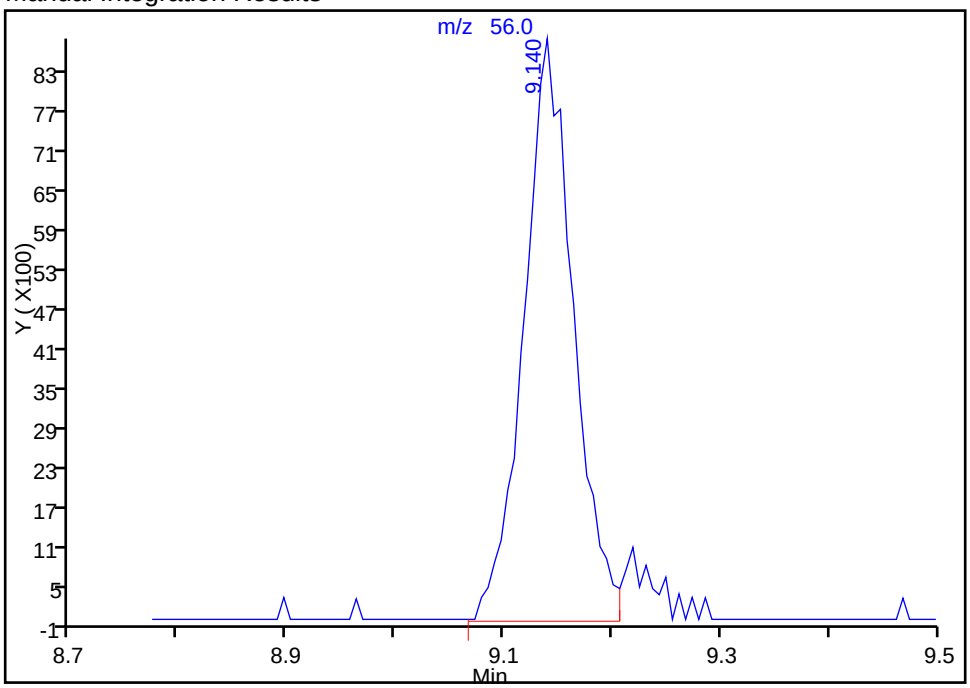
Processing Integration Results

RT: 9.14
Area: 29359
Amount: 1.136098
Amount Units: ug/L



Manual Integration Results

RT: 9.14
Area: 27787
Amount: 1.080757
Amount Units: ug/L



Reviewer: cwiklinc, 16-Sep-2016 12:58:54
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

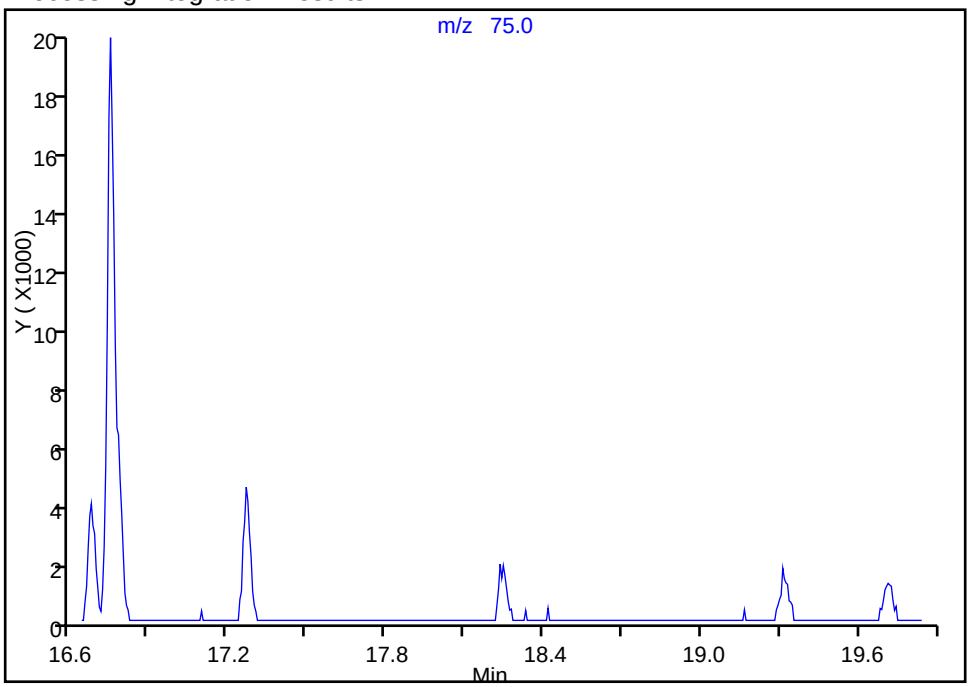
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0160.D				
Injection Date:	15-Sep-2016 15:28:30	Instrument ID:	HP5973P		
Lims ID:	IC 2				
Client ID:					
Operator ID:	CDC	ALS Bottle#:	3	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

117 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Signal: 1

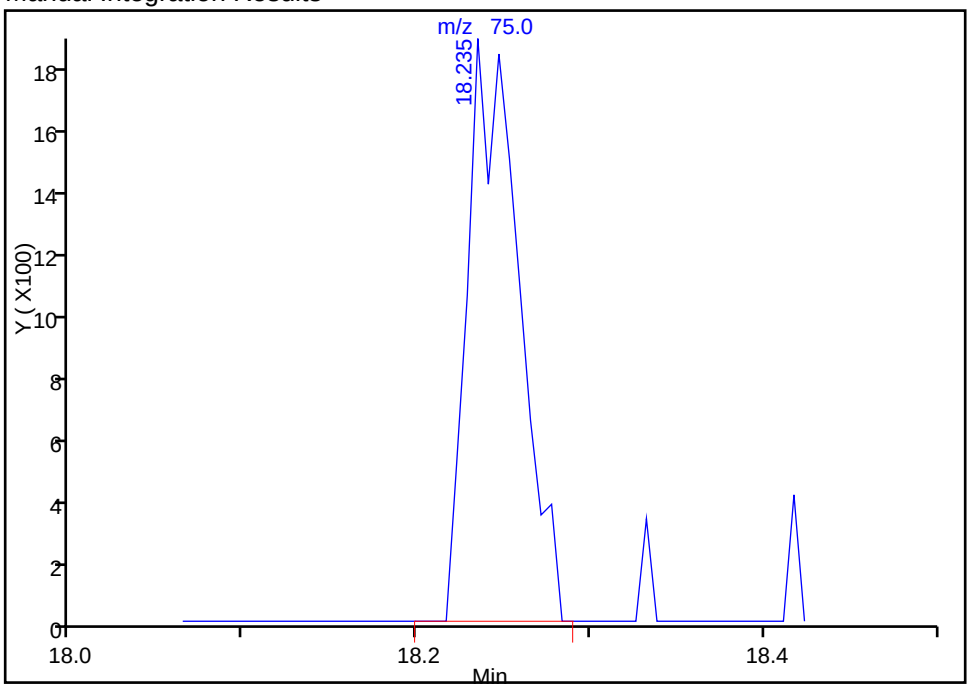
Not Detected
Expected RT: 18.24

Processing Integration Results



RT: 18.23
Area: 3822
Amount: 0.893221
Amount Units: ug/L

Manual Integration Results



Reviewer: gentilej, 16-Sep-2016 10:38:36
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

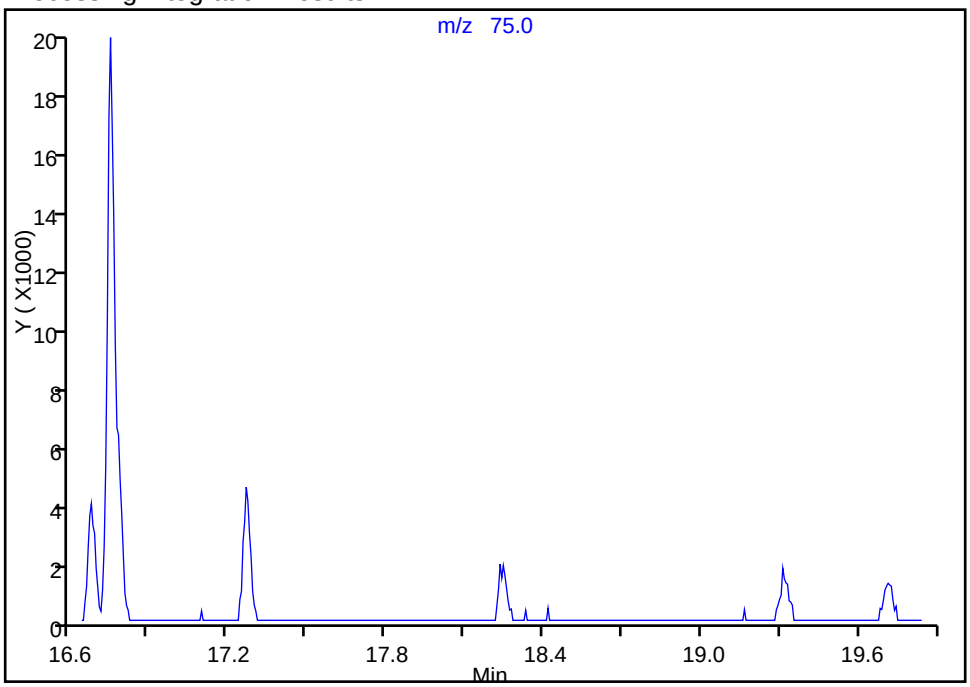
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0160.D				
Injection Date:	15-Sep-2016 15:28:30	Instrument ID:	HP5973P		
Lims ID:	IC 2				
Client ID:					
Operator ID:	CDC	ALS Bottle#:	3	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

117 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Signal: 1

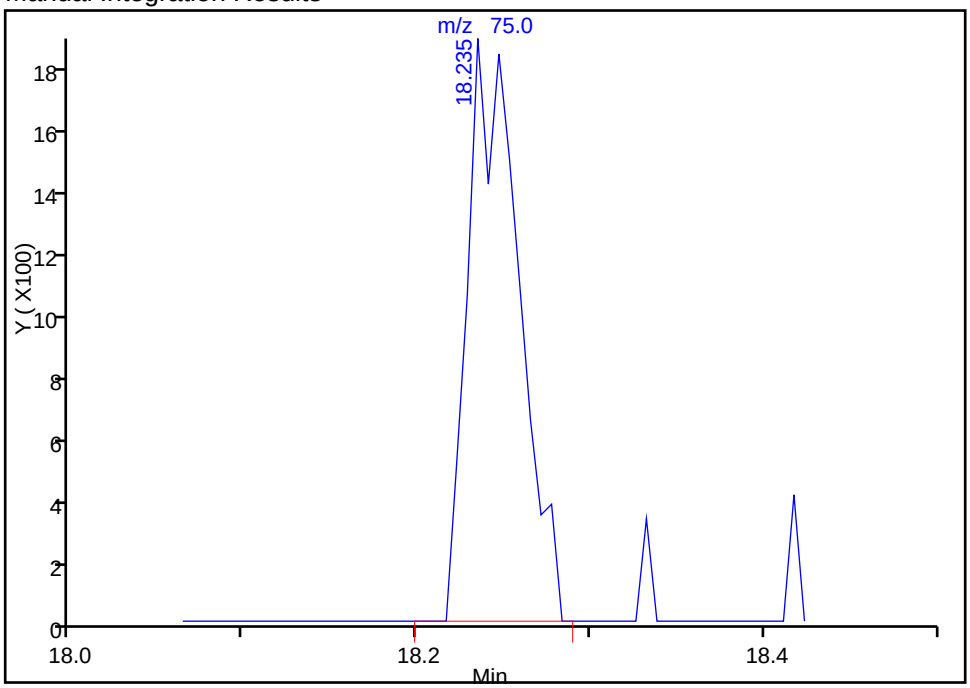
Not Detected
Expected RT: 18.24

Processing Integration Results



RT: 18.23
Area: 3822
Amount: 0.893221
Amount Units: ug/L

Manual Integration Results



Reviewer: gentilej, 16-Sep-2016 10:38:36
Audit Action: Manually Integrated Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0161.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 15-Sep-2016 15:55:30 ALS Bottle#: 4 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 3
Misc. Info.: 480-0056398-007
Operator ID: CDC Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub11

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Sep-2016 14:06:27 Calib Date: 15-Sep-2016 21:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: gentilej Date: 16-Sep-2016 10:30:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.827	9.833	-0.006	98	150594	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.763	13.763	0.000	86	304915	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.750	16.750	0.000	96	319559	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.018	9.018	0.000	93	185614	25.0	25.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.456	9.456	0.000	0	124167	25.0	25.7	
$ 5 Toluene-d8 (Surr)	98	11.798	11.798	0.000	92	667117	25.0	24.6	
$ 6 4-Bromofluorobenzene (Surr	174	15.278	15.278	0.000	90	230469	25.0	24.8	
10 Dichlorodifluoromethane	85	3.987	3.987	0.000	98	66410	5.00	5.30	
11 Chloromethane	50	4.285	4.297	-0.012	99	64475	5.00	4.91	
17 Vinyl chloride	62	4.516	4.516	0.000	98	48580	5.00	5.11	
144 Butadiene	54	4.535	4.541	-0.006	94	52234	5.00	5.08	
12 Bromomethane	94	5.058	5.070	-0.012	93	18881	5.00	4.62	
13 Chloroethane	64	5.204	5.204	0.000	97	27465	5.00	5.42	
19 Dichlorofluoromethane	67	5.484	5.484	0.000	98	81378	5.00	4.90	
14 Trichlorofluoromethane	101	5.593	5.599	-0.006	98	88048	5.00	5.01	
20 Ethyl ether	59	5.903	5.903	0.000	97	60004	5.00	5.12	
22 Acrolein	56	6.153	6.159	-0.006	99	66795	25.0	23.1	
16 1,1,2-Trichloro-1,2,2-trif	101	6.238	6.238	0.000	93	60312	5.00	5.19	
25 1,1-Dichloroethene	96	6.293	6.293	0.000	92	53205	5.00	5.25	
24 Acetone	43	6.341	6.335	0.006	99	152504	25.0	24.7	
18 Iodomethane	142	6.554	6.554	0.000	99	98437	5.00	5.07	
27 Carbon disulfide	76	6.676	6.670	0.006	100	175758	5.00	5.14	
30 Methyl acetate	43	6.706	6.706	0.000	100	410870	25.0	25.3	
28 3-Chloro-1-propene	41	6.743	6.743	0.000	88	120120	5.00	5.02	
31 Methylene Chloride	84	6.913	6.913	0.000	94	62900	5.00	4.88	
33 2-Methyl-2-propanol	59	6.944	6.944	0.000	98	135977	50.0	49.5	
32 Methyl tert-butyl ether	73	7.175	7.169	0.006	99	175950	5.00	5.12	
34 Acrylonitrile	53	7.205	7.205	0.000	98	385981	50.0	50.1	
35 trans-1,2-Dichloroethene	96	7.242	7.236	0.006	93	55809	5.00	5.26	
36 Hexane	57	7.473	7.473	0.000	95	100163	5.00	5.28	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
38 Vinyl acetate	43	7.710	7.704	0.006	97	358542	10.0	10.2	
40 1,1-Dichloroethane	63	7.765	7.765	0.000	97	111251	5.00	4.97	
44 2-Butanone (MEK)	43	8.404	8.404	0.000	98	280574	25.0	25.6	
45 2,2-Dichloropropane	77	8.458	8.458	0.000	58	80539	5.00	5.23	
43 cis-1,2-Dichloroethene	96	8.458	8.458	0.000	86	59120	5.00	5.08	
50 Chlorobromomethane	128	8.781	8.775	0.006	91	30510	5.00	5.08	
51 Tetrahydrofuran	42	8.805	8.799	0.006	90	78103	10.0	10.3	
49 Chloroform	83	8.811	8.811	0.000	94	90938	5.00	5.04	
52 1,1,1-Trichloroethane	97	9.079	9.073	0.006	97	81424	5.00	5.01	
54 Cyclohexane	56	9.140	9.140	0.000	93	131329	5.00	5.20	M
53 Isobutyl alcohol	43	9.219	9.219	0.000	95	159181	125.0	129.1	
56 1,1-Dichloropropene	75	9.249	9.243	0.006	92	75957	5.00	5.36	
55 Carbon tetrachloride	117	9.280	9.274	0.006	96	77671	5.00	5.11	
57 Benzene	78	9.529	9.529	0.000	98	212288	5.00	5.17	
60 1,2-Dichloroethane	62	9.547	9.547	0.000	95	86513	5.00	5.10	
59 n-Heptane	43	9.645	9.645	0.000	98	106807	5.00	5.34	
62 Trichloroethene	95	10.277	10.277	0.000	94	55642	5.00	5.01	
64 Methylcyclohexane	83	10.515	10.509	0.006	97	95245	5.00	5.25	
63 1,2-Dichloropropane	63	10.588	10.588	0.000	95	61801	5.00	5.16	
68 1,4-Dioxane	88	10.722	10.715	0.007	99	17045	100.0	102.4	
69 Dibromomethane	93	10.782	10.776	0.006	94	36374	5.00	4.96	
70 Dichlorobromomethane	83	10.916	10.916	0.000	95	64602	5.00	4.91	
71 2-Chloroethyl vinyl ether	63	11.178	11.178	0.000	91	47817	5.00	5.00	
73 cis-1,3-Dichloropropene	75	11.446	11.452	-0.006	91	85873	5.00	5.05	
75 4-Methyl-2-pentanone (MIBK	43	11.561	11.561	0.000	98	554344	25.0	25.7	
76 Toluene	92	11.896	11.890	0.006	97	133384	5.00	5.01	
77 Ethyl methacrylate	69	12.121	12.121	0.000	98	75067	5.00	4.81	
78 trans-1,3-Dichloropropene	75	12.151	12.151	0.000	96	76852	5.00	4.85	
79 1,1,2-Trichloroethane	83	12.431	12.437	-0.006	93	42332	5.00	5.11	
80 Tetrachloroethene	166	12.638	12.638	0.000	96	61003	5.00	5.30	
83 2-Hexanone	43	12.644	12.644	0.000	99	398535	25.0	26.8	
82 1,3-Dichloropropane	76	12.674	12.674	0.000	99	85106	5.00	5.28	
81 Chlorodibromomethane	129	13.021	13.015	0.006	89	53276	5.00	4.71	
85 Ethylene Dibromide	107	13.216	13.216	0.000	97	57450	5.00	5.04	
87 Chlorobenzene	112	13.806	13.806	0.000	95	147605	5.00	4.97	
89 Ethylbenzene	91	13.873	13.873	0.000	98	251601	5.00	5.21	
88 1,1,1,2-Tetrachloroethane	131	13.885	13.891	-0.006	94	54216	5.00	4.86	
90 m-Xylene & p-Xylene	106	14.013	14.013	0.000	0	103541	5.00	5.01	
93 o-Xylene	106	14.560	14.560	0.000	97	104284	5.00	5.09	
94 Styrene	104	14.579	14.579	0.000	96	167348	5.00	5.16	
92 Bromoform	173	14.931	14.931	0.000	95	34036	5.00	4.49	
95 Isopropylbenzene	105	15.004	15.004	0.000	96	262649	5.00	5.11	
97 1,1,2,2-Tetrachloroethane	83	15.430	15.430	0.000	96	75453	5.00	4.87	
98 trans-1,4-Dichloro-2-buten	53	15.479	15.485	-0.006	78	34532	5.00	4.98	M
100 Bromobenzene	156	15.522	15.522	0.000	93	66670	5.00	5.27	
101 1,2,3-Trichloropropane	110	15.515	15.522	-0.007	63	25137	5.00	5.27	
99 N-Propylbenzene	91	15.534	15.534	0.000	98	306884	5.00	5.33	
103 2-Chlorotoluene	126	15.722	15.722	0.000	95	64468	5.00	5.20	
102 1,3,5-Trimethylbenzene	105	15.728	15.728	0.000	95	222436	5.00	5.24	
105 4-Chlorotoluene	126	15.850	15.850	0.000	98	67165	5.00	5.17	
106 tert-Butylbenzene	134	16.166	16.172	-0.006	93	49723	5.00	5.12	
107 1,2,4-Trimethylbenzene	105	16.233	16.233	0.000	97	227601	5.00	5.04	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	16.440	16.440	0.000	94	284363	5.00	5.12	
112 4-Isopropyltoluene	119	16.592	16.592	0.000	97	249904	5.00	5.12	
110 1,3-Dichlorobenzene	146	16.677	16.677	0.000	99	133843	5.00	5.12	
111 1,4-Dichlorobenzene	146	16.787	16.787	0.000	96	134421	5.00	5.14	
115 n-Butylbenzene	91	17.109	17.109	0.000	97	216172	5.00	5.13	
116 1,2-Dichlorobenzene	146	17.274	17.267	0.007	97	131900	5.00	5.02	
117 1,2-Dibromo-3-Chloropropan	75	18.241	18.241	0.000	76	19559	5.00	4.70	
119 1,2,4-Trichlorobenzene	180	19.318	19.318	0.000	95	98059	5.00	5.01	
120 Hexachlorobutadiene	225	19.470	19.470	0.000	96	36847	5.00	5.02	
121 Naphthalene	128	19.719	19.713	0.006	97	326697	5.00	4.99	
122 1,2,3-Trichlorobenzene	180	20.078	20.072	0.006	97	98190	5.00	5.04	
S 123 1,2-Dichloroethene, Total	1				0			10.3	
S 124 1,3-Dichloropropene, Total	1				0			9.90	
S 125 Total BTEX	1				0			25.5	
S 126 Xylenes, Total	1				0			10.1	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00082	Amount Added:	5.00	Units: uL	
GAS CORP mix_00178	Amount Added:	5.00	Units: uL	
P 8260 IS_00166	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00195	Amount Added:	1.25	Units: uL	Run Reagent

Report Date: 16-Sep-2016 14:06:29 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0161.D

Injection Date: 15-Sep-2016 15:55:30 Instrument ID: HP5973P Operator ID: CDC

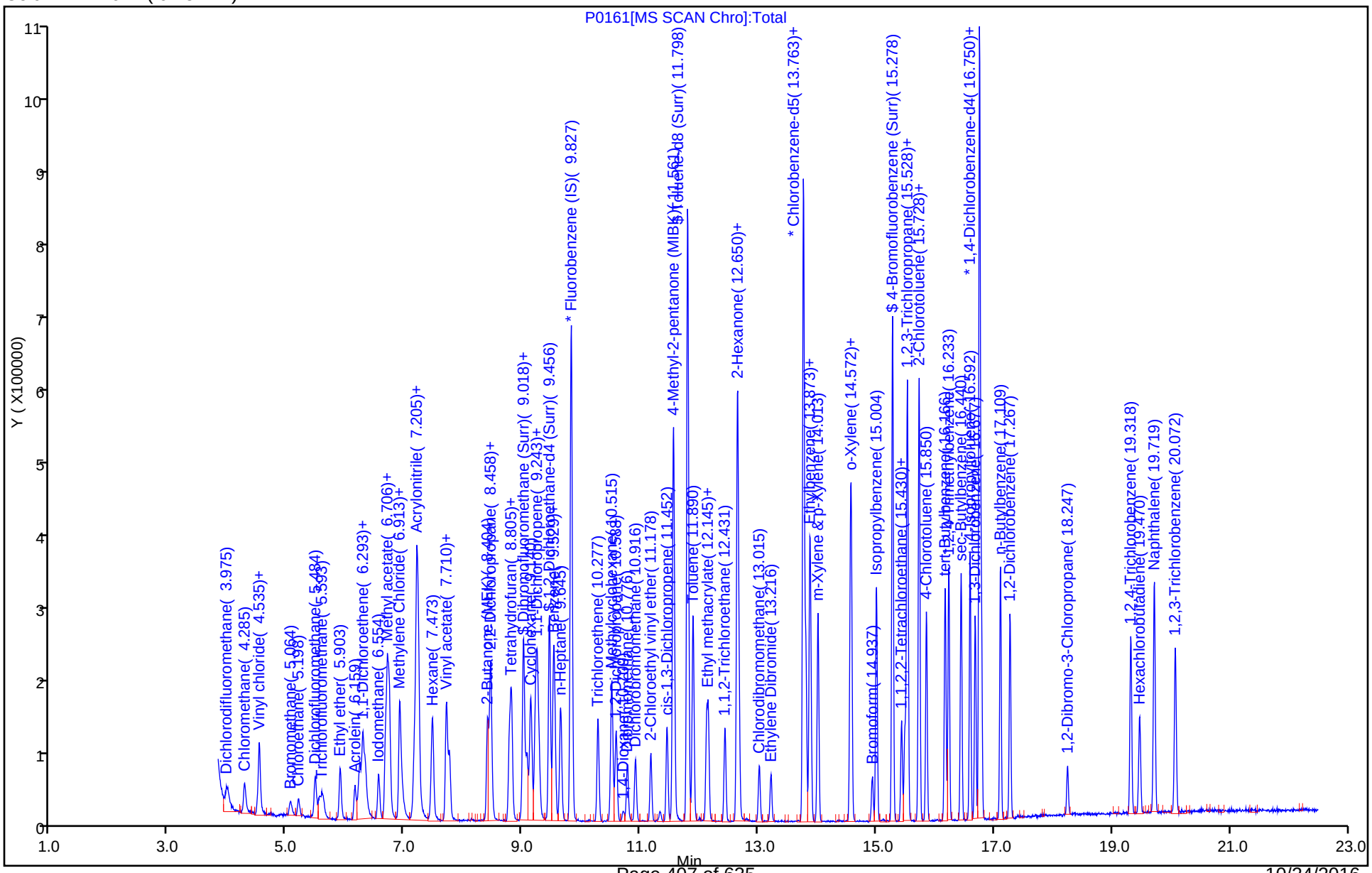
Lims ID: IC 3 Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: P-8260H2O Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

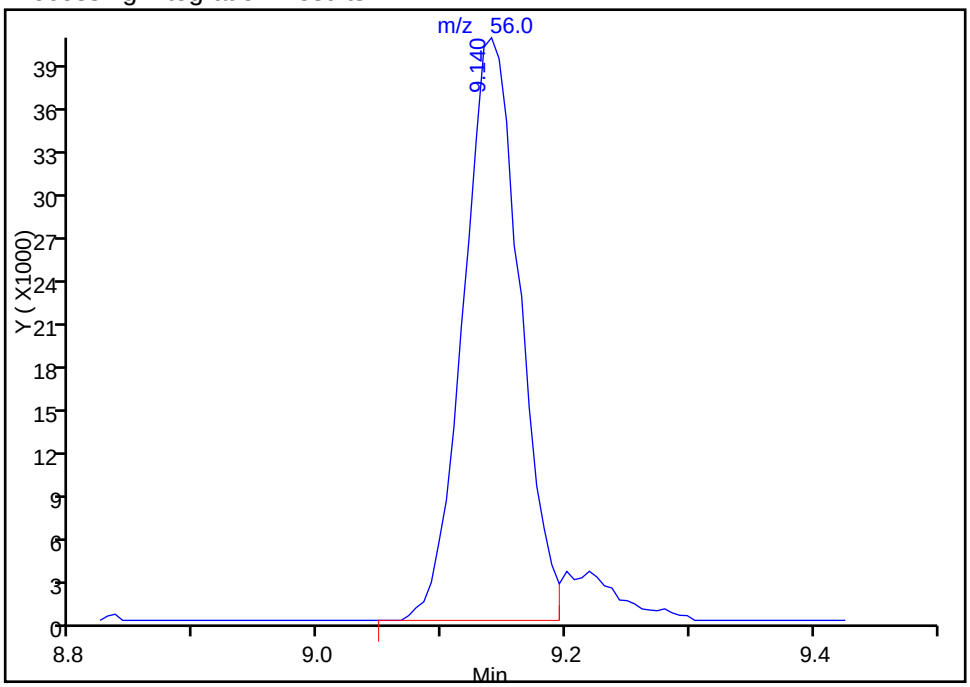
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0161.D				
Injection Date:	15-Sep-2016 15:55:30	Instrument ID:	HP5973P		
Lims ID:	IC 3				
Client ID:					
Operator ID:	CDC	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

54 Cyclohexane, CAS: 110-82-7

Signal: 1

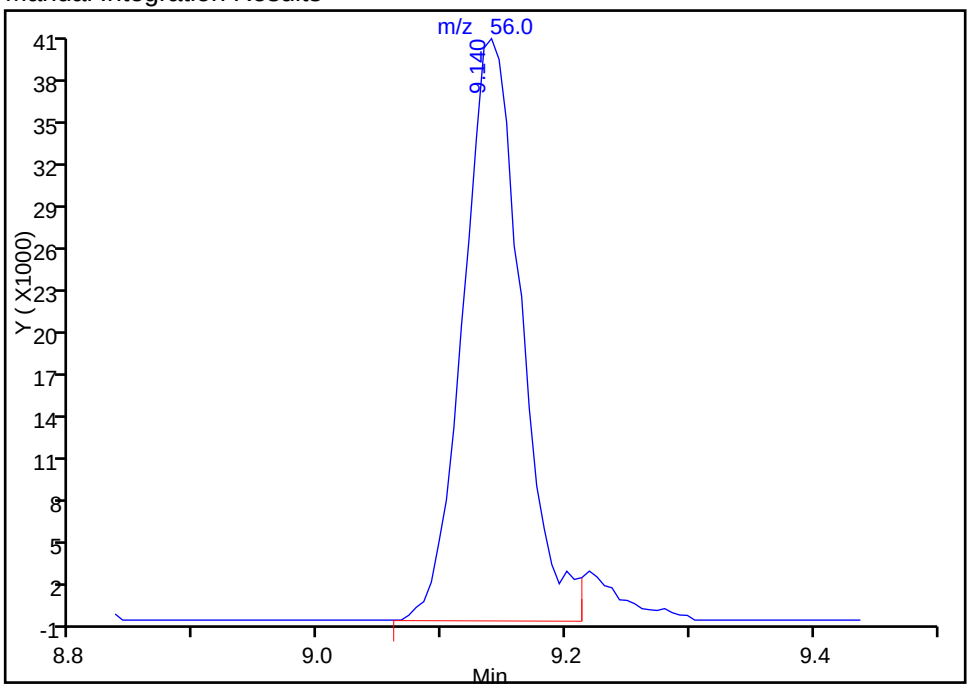
Processing Integration Results

RT: 9.14
Area: 127474
Amount: 5.069657
Amount Units: ug/L



Manual Integration Results

RT: 9.14
Area: 131329
Amount: 5.196415
Amount Units: ug/L



Reviewer: cwiklinc, 16-Sep-2016 13:08:21
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

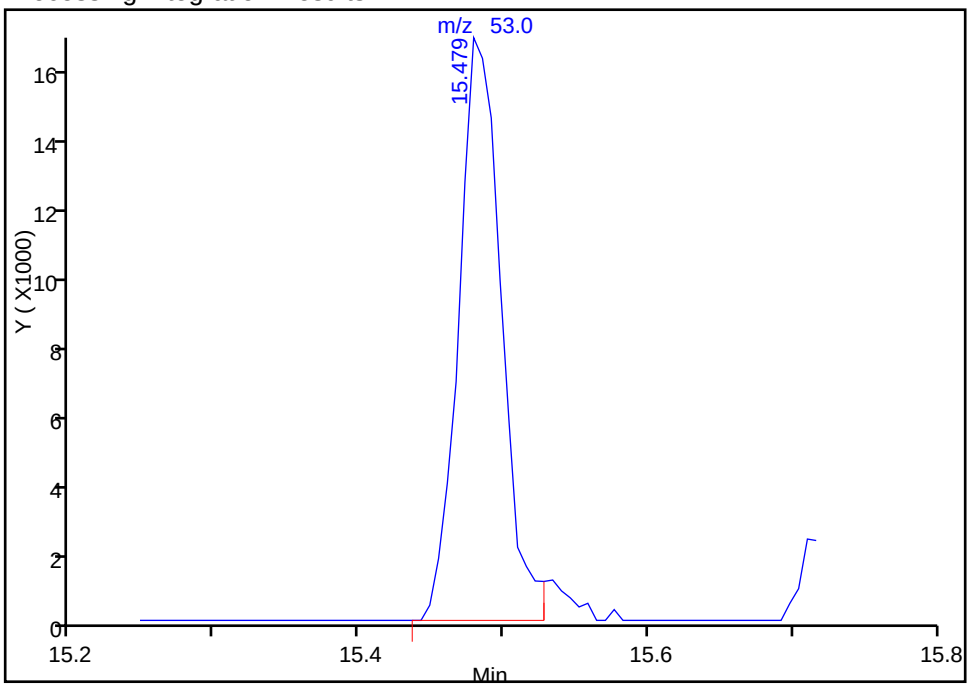
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0161.D				
Injection Date:	15-Sep-2016 15:55:30	Instrument ID:	HP5973P		
Lims ID:	IC 3				
Client ID:					
Operator ID:	CDC	ALS Bottle#:	4	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

98 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

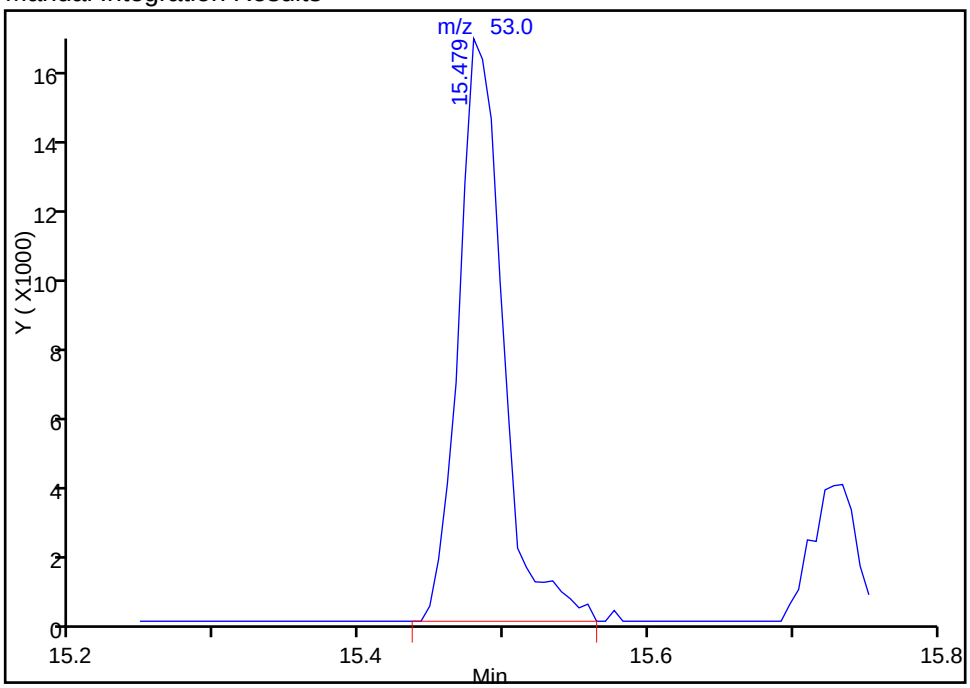
Processing Integration Results

RT: 15.48
Area: 33287
Amount: 4.856310
Amount Units: ug/L



Manual Integration Results

RT: 15.48
Area: 34532
Amount: 4.981712
Amount Units: ug/L



Reviewer: cwiklinc, 16-Sep-2016 13:13:10

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0162.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 15-Sep-2016 16:23:30 ALS Bottle#: 5 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 4
Misc. Info.: 480-0056398-008
Operator ID: CDC Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub11

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Sep-2016 14:06:32 Calib Date: 15-Sep-2016 21:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: gentilej Date: 16-Sep-2016 10:25:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.827	9.827	0.000	98	153311	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.763	13.763	0.000	86	306384	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.750	16.750	0.000	96	328000	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.018	9.018	0.000	93	189512	25.0	25.1	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.456	9.456	0.000	0	121564	25.0	24.7	
$ 5 Toluene-d8 (Surr)	98	11.798	11.798	0.000	92	684473	25.0	25.2	
$ 6 4-Bromofluorobenzene (Surr	174	15.278	15.278	0.000	90	233220	25.0	25.0	
10 Dichlorodifluoromethane	85	3.987	3.987	0.000	98	125122	10.0	9.81	
11 Chloromethane	50	4.291	4.291	0.000	99	133956	10.0	10.0	
17 Vinyl chloride	62	4.510	4.510	0.000	98	95970	10.0	9.92	
144 Butadiene	54	4.535	4.535	0.000	95	103137	10.0	9.85	
12 Bromomethane	94	5.058	5.058	0.000	93	38835	10.0	9.34	
13 Chloroethane	64	5.204	5.204	0.000	97	48709	10.0	9.44	
19 Dichlorofluoromethane	67	5.484	5.484	0.000	98	161706	10.0	9.56	
14 Trichlorofluoromethane	101	5.599	5.599	0.000	98	177493	10.0	9.92	
20 Ethyl ether	59	5.910	5.910	0.000	97	119651	10.0	10.0	
22 Acrolein	56	6.159	6.159	0.000	100	148633	50.0	50.6	
16 1,1,2-Trichloro-1,2,2-trif	101	6.238	6.238	0.000	94	118813	10.0	10.0	
25 1,1-Dichloroethene	96	6.293	6.293	0.000	94	103627	10.0	10.1	
24 Acetone	43	6.335	6.335	0.000	99	313735	50.0	49.8	
18 Iodomethane	142	6.554	6.554	0.000	98	198982	10.0	10.1	
27 Carbon disulfide	76	6.670	6.670	0.000	100	337019	10.0	9.68	
30 Methyl acetate	43	6.706	6.706	0.000	100	825998	50.0	50.0	
28 3-Chloro-1-propene	41	6.743	6.743	0.000	88	240217	10.0	9.86	
31 Methylene Chloride	84	6.913	6.913	0.000	94	120127	10.0	10.3	
33 2-Methyl-2-propanol	59	6.944	6.944	0.000	97	273183	100.0	97.7	
32 Methyl tert-butyl ether	73	7.169	7.169	0.000	99	352120	10.0	10.1	
34 Acrylonitrile	53	7.211	7.211	0.000	99	786199	100.0	100.2	
35 trans-1,2-Dichloroethene	96	7.236	7.236	0.000	93	110305	10.0	10.2	
36 Hexane	57	7.473	7.473	0.000	96	191013	10.0	9.89	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
38 Vinyl acetate	43	7.704	7.704	0.000	97	716794	20.0	20.1	
40 1,1-Dichloroethane	63	7.759	7.759	0.000	96	220959	10.0	9.69	
44 2-Butanone (MEK)	43	8.404	8.404	0.000	98	556594	50.0	49.9	
45 2,2-Dichloropropane	77	8.459	8.459	0.000	93	159882	10.0	10.2	
43 cis-1,2-Dichloroethene	96	8.465	8.465	0.000	86	119146	10.0	10.1	
50 Chlorobromomethane	128	8.775	8.775	0.000	92	60354	10.0	9.87	
51 Tetrahydrofuran	42	8.799	8.799	0.000	92	150745	20.0	19.5	
49 Chloroform	83	8.811	8.811	0.000	95	182569	10.0	9.94	
52 1,1,1-Trichloroethane	97	9.079	9.079	0.000	98	167291	10.0	10.1	
54 Cyclohexane	56	9.140	9.140	0.000	93	256350	10.0	9.96	
53 Isobutyl alcohol	43	9.219	9.219	0.000	96	330200	250.0	263.1	
56 1,1-Dichloropropene	75	9.243	9.243	0.000	87	146537	10.0	10.2	
55 Carbon tetrachloride	117	9.274	9.274	0.000	95	158472	10.0	10.2	
57 Benzene	78	9.529	9.529	0.000	98	416892	10.0	9.98	
60 1,2-Dichloroethane	62	9.548	9.548	0.000	96	173601	10.0	10.0	
59 n-Heptane	43	9.645	9.645	0.000	98	197147	10.0	9.68	
62 Trichloroethene	95	10.278	10.278	0.000	94	112729	10.0	9.98	
64 Methylcyclohexane	83	10.515	10.515	0.000	98	185436	10.0	10.0	
63 1,2-Dichloropropane	63	10.582	10.582	0.000	94	121864	10.0	10.0	
68 1,4-Dioxane	88	10.709	10.709	0.000	98	36549	200.0	218.6	
69 Dibromomethane	93	10.776	10.776	0.000	94	74265	10.0	9.94	
70 Dichlorobromomethane	83	10.916	10.916	0.000	96	130564	10.0	9.75	
71 2-Chloroethyl vinyl ether	63	11.172	11.172	0.000	92	95146	10.0	9.77	
73 cis-1,3-Dichloropropene	75	11.446	11.446	0.000	90	170334	10.0	9.84	
75 4-Methyl-2-pentanone (MIBK	43	11.561	11.561	0.000	99	1110347	50.0	51.1	
76 Toluene	92	11.890	11.890	0.000	98	266265	10.0	9.94	
77 Ethyl methacrylate	69	12.127	12.127	0.000	97	156033	10.0	9.94	
78 trans-1,3-Dichloropropene	75	12.151	12.151	0.000	97	160258	10.0	10.1	
79 1,1,2-Trichloroethane	83	12.431	12.431	0.000	93	83304	10.0	10.0	
80 Tetrachloroethene	166	12.644	12.644	0.000	94	117097	10.0	10.1	
83 2-Hexanone	43	12.644	12.644	0.000	99	785106	50.0	52.6	
82 1,3-Dichloropropane	76	12.674	12.674	0.000	99	167521	10.0	10.3	
81 Chlorodibromomethane	129	13.015	13.015	0.000	91	108205	10.0	9.52	
85 Ethylene Dibromide	107	13.216	13.216	0.000	98	113900	10.0	9.94	
87 Chlorobenzene	112	13.806	13.806	0.000	95	302644	10.0	10.1	
89 Ethylbenzene	91	13.873	13.873	0.000	98	496210	10.0	10.2	
88 1,1,1,2-Tetrachloroethane	131	13.885	13.885	0.000	94	114062	10.0	10.2	
90 m-Xylene & p-Xylene	106	14.013	14.013	0.000	0	204115	10.0	9.84	
93 o-Xylene	106	14.560	14.560	0.000	95	210300	10.0	10.2	
94 Styrene	104	14.579	14.579	0.000	96	337071	10.0	10.3	
92 Bromoform	173	14.931	14.931	0.000	96	71894	10.0	9.43	
95 Isopropylbenzene	105	15.004	15.004	0.000	96	527853	10.0	10.0	
97 1,1,2,2-Tetrachloroethane	83	15.430	15.430	0.000	95	154522	10.0	9.71	
98 trans-1,4-Dichloro-2-buten	53	15.485	15.485	0.000	80	71006	10.0	9.98	
100 Bromobenzene	156	15.522	15.522	0.000	92	130527	10.0	10.0	
101 1,2,3-Trichloropropane	110	15.522	15.522	0.000	64	50934	10.0	10.4	
99 N-Propylbenzene	91	15.534	15.534	0.000	98	606265	10.0	10.3	
103 2-Chlorotoluene	126	15.728	15.728	0.000	95	129309	10.0	10.2	
102 1,3,5-Trimethylbenzene	105	15.728	15.728	0.000	95	437940	10.0	10.1	
105 4-Chlorotoluene	126	15.856	15.856	0.000	98	132487	10.0	9.94	
106 tert-Butylbenzene	134	16.173	16.173	0.000	94	99230	10.0	9.96	
107 1,2,4-Trimethylbenzene	105	16.227	16.227	0.000	97	467242	10.0	10.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	16.440	16.440	0.000	94	568941	10.0	9.98	
112 4-Isopropyltoluene	119	16.592	16.592	0.000	97	497421	10.0	9.92	
110 1,3-Dichlorobenzene	146	16.677	16.677	0.000	98	264590	10.0	9.86	
111 1,4-Dichlorobenzene	146	16.781	16.781	0.000	95	267154	10.0	9.96	
115 n-Butylbenzene	91	17.109	17.109	0.000	98	429609	10.0	9.94	
116 1,2-Dichlorobenzene	146	17.268	17.268	0.000	97	264838	10.0	9.83	
117 1,2-Dibromo-3-Chloropropan	75	18.241	18.241	0.000	81	40726	10.0	9.53	
119 1,2,4-Trichlorobenzene	180	19.318	19.318	0.000	94	200952	10.0	10.0	
120 Hexachlorobutadiene	225	19.470	19.470	0.000	98	73089	10.0	9.70	
121 Naphthalene	128	19.719	19.719	0.000	97	669741	10.0	9.97	
122 1,2,3-Trichlorobenzene	180	20.072	20.072	0.000	96	191633	10.0	9.59	
S 123 1,2-Dichloroethene, Total	1				0			20.3	
S 124 1,3-Dichloropropene, Total	1				0			19.9	
S 125 Total BTEX	1				0			50.2	
S 126 Xylenes, Total	1				0			20.1	

Reagents:

8260 CORP mix_00082	Amount Added:	5.00	Units: uL	
GAS CORP mix_00178	Amount Added:	5.00	Units: uL	
P 8260 IS_00166	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00195	Amount Added:	1.25	Units: uL	Run Reagent

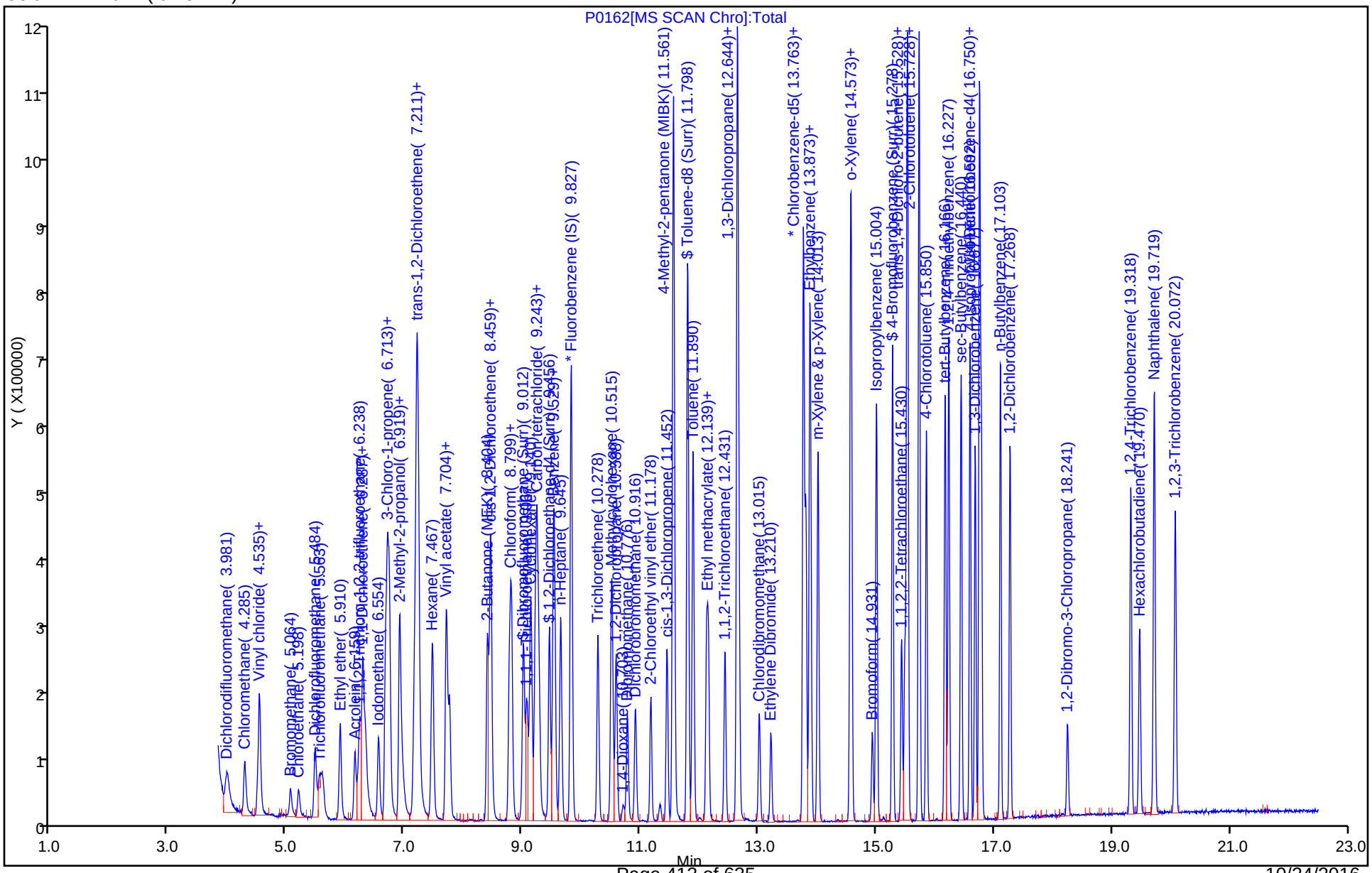
Report Date: 16-Sep-2016 14:06:38 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0162.D

Injection Date:	15-Sep-2016 16:23:30	Instrument ID:	HP5973P	Operator ID:	CDC
Lims ID:	IC 4			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0163.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 15-Sep-2016 16:50:30 ALS Bottle#: 6 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS 5
Misc. Info.: 480-0056398-009
Operator ID: CDC Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub11

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Sep-2016 14:06:46 Calib Date: 15-Sep-2016 21:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: cwiklinc Date: 16-Sep-2016 12:56:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.827	9.827	0.000	98	153518	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.763	13.763	0.000	85	307919	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.756	16.756	0.000	95	325473	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.018	9.018	0.000	95	191555	25.0	25.3	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.456	9.456	0.000	0	124198	25.0	25.2	
$ 5 Toluene-d8 (Surr)	98	11.798	11.798	0.000	92	685775	25.0	25.1	
$ 6 4-Bromofluorobenzene (Surr	174	15.278	15.278	0.000	90	235975	25.0	25.2	
10 Dichlorodifluoromethane	85	3.987	3.987	0.000	99	316997	25.0	24.8	
11 Chloromethane	50	4.297	4.297	0.000	99	333329	25.0	24.9	
17 Vinyl chloride	62	4.516	4.516	0.000	98	248064	25.0	25.6	
144 Butadiene	54	4.541	4.541	0.000	93	262362	25.0	25.0	
12 Bromomethane	94	5.070	5.070	0.000	93	93512	25.0	22.5	
13 Chloroethane	64	5.204	5.204	0.000	96	127724	25.0	24.7	
19 Dichlorofluoromethane	67	5.484	5.484	0.000	98	396147	25.0	23.4	
14 Trichlorofluoromethane	101	5.599	5.599	0.000	98	448037	25.0	25.0	
20 Ethyl ether	59	5.903	5.903	0.000	98	303919	25.0	25.4	
22 Acrolein	56	6.159	6.159	0.000	100	393742	125.0	133.7	
16 1,1,2-Trichloro-1,2,2-trif	101	6.238	6.238	0.000	93	294757	25.0	24.9	
25 1,1-Dichloroethene	96	6.293	6.293	0.000	93	262421	25.0	25.4	
24 Acetone	43	6.335	6.335	0.000	99	784445	125.0	124.4	
18 Iodomethane	142	6.554	6.554	0.000	98	506456	25.0	25.6	
27 Carbon disulfide	76	6.670	6.670	0.000	100	896050	25.0	25.7	
30 Methyl acetate	43	6.706	6.706	0.000	100	2070623	125.0	125.2	
28 3-Chloro-1-propene	41	6.743	6.743	0.000	87	606803	25.0	24.9	
31 Methylene Chloride	84	6.913	6.913	0.000	94	284558	25.0	26.1	
33 2-Methyl-2-propanol	59	6.944	6.944	0.000	98	691395	250.0	246.9	M
32 Methyl tert-butyl ether	73	7.169	7.169	0.000	99	893090	25.0	25.5	
34 Acrylonitrile	53	7.205	7.205	0.000	98	1955160	250.0	248.9	
35 trans-1,2-Dichloroethene	96	7.236	7.236	0.000	93	275889	25.0	25.5	
36 Hexane	57	7.473	7.473	0.000	96	488016	25.0	25.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
38 Vinyl acetate	43	7.704	7.704	0.000	96	1823582	50.0	51.0	
40 1,1-Dichloroethane	63	7.765	7.765	0.000	96	565418	25.0	24.8	
44 2-Butanone (MEK)	43	8.404	8.404	0.000	98	1391034	125.0	124.5	
45 2,2-Dichloropropane	77	8.458	8.458	0.000	93	400226	25.0	25.5	
43 cis-1,2-Dichloroethene	96	8.458	8.458	0.000	86	303118	25.0	25.6	
50 Chlorobromomethane	128	8.775	8.775	0.000	92	156867	25.0	25.6	
51 Tetrahydrofuran	42	8.799	8.799	0.000	95	381126	50.0	49.2	
49 Chloroform	83	8.811	8.811	0.000	95	460475	25.0	25.0	
52 1,1,1-Trichloroethane	97	9.073	9.073	0.000	98	424454	25.0	25.6	
54 Cyclohexane	56	9.140	9.140	0.000	93	649915	25.0	25.2	M
53 Isobutyl alcohol	43	9.219	9.219	0.000	98	849426	625.0	676.0	
56 1,1-Dichloropropene	75	9.243	9.243	0.000	91	366879	25.0	25.4	
55 Carbon tetrachloride	117	9.274	9.274	0.000	97	400005	25.0	25.8	
57 Benzene	78	9.529	9.529	0.000	98	1054334	25.0	25.2	
60 1,2-Dichloroethane	62	9.547	9.547	0.000	96	434942	25.0	25.1	
59 n-Heptane	43	9.645	9.645	0.000	98	477227	25.0	23.4	
62 Trichloroethene	95	10.277	10.277	0.000	95	286237	25.0	25.3	
64 Methylcyclohexane	83	10.509	10.509	0.000	98	469709	25.0	25.4	
63 1,2-Dichloropropane	63	10.588	10.588	0.000	95	305900	25.0	25.1	
68 1,4-Dioxane	88	10.715	10.715	0.000	99	91301	500.0	543.3	
69 Dibromomethane	93	10.776	10.776	0.000	96	188896	25.0	25.3	
70 Dichlorobromomethane	83	10.916	10.916	0.000	96	343300	25.0	25.6	
71 2-Chloroethyl vinyl ether	63	11.178	11.178	0.000	92	246566	25.0	25.3	
73 cis-1,3-Dichloropropene	75	11.452	11.452	0.000	91	441047	25.0	25.4	
75 4-Methyl-2-pentanone (MIBK	43	11.561	11.561	0.000	98	2758992	125.0	126.4	
76 Toluene	92	11.890	11.890	0.000	98	676490	25.0	25.1	
77 Ethyl methacrylate	69	12.121	12.121	0.000	94	399664	25.0	25.3	
78 trans-1,3-Dichloropropene	75	12.151	12.151	0.000	98	409702	25.0	25.6	
79 1,1,2-Trichloroethane	83	12.437	12.437	0.000	94	209121	25.0	25.0	
80 Tetrachloroethene	166	12.638	12.638	0.000	96	297361	25.0	25.6	
83 2-Hexanone	43	12.644	12.644	0.000	99	1937075	125.0	129.1	
82 1,3-Dichloropropane	76	12.674	12.674	0.000	99	417086	25.0	25.6	
81 Chlorodibromomethane	129	13.015	13.015	0.000	90	296969	25.0	26.0	
85 Ethylene Dibromide	107	13.216	13.216	0.000	99	291834	25.0	25.3	
87 Chlorobenzene	112	13.806	13.806	0.000	95	753992	25.0	25.1	
89 Ethylbenzene	91	13.873	13.873	0.000	98	1244016	25.0	25.5	
88 1,1,1,2-Tetrachloroethane	131	13.891	13.891	0.000	95	285062	25.0	25.3	
90 m-Xylene & p-Xylene	106	14.013	14.013	0.000	0	517725	25.0	24.8	
93 o-Xylene	106	14.560	14.560	0.000	97	532782	25.0	25.8	
94 Styrene	104	14.579	14.579	0.000	96	852802	25.0	26.1	
92 Bromoform	173	14.931	14.931	0.000	96	201665	25.0	26.3	
95 Isopropylbenzene	105	15.004	15.004	0.000	96	1322020	25.0	25.2	
97 1,1,2,2-Tetrachloroethane	83	15.430	15.430	0.000	95	400892	25.0	25.4	
98 trans-1,4-Dichloro-2-buten	53	15.485	15.485	0.000	84	179761	25.0	25.5	M
100 Bromobenzene	156	15.522	15.522	0.000	93	322190	25.0	25.0	
101 1,2,3-Trichloropropane	110	15.522	15.522	0.000	61	122337	25.0	25.2	
99 N-Propylbenzene	91	15.534	15.534	0.000	98	1475730	25.0	25.2	
103 2-Chlorotoluene	126	15.722	15.722	0.000	96	322287	25.0	25.5	
102 1,3,5-Trimethylbenzene	105	15.728	15.728	0.000	95	1114121	25.0	25.8	
105 4-Chlorotoluene	126	15.850	15.850	0.000	98	332157	25.0	25.1	
106 tert-Butylbenzene	134	16.172	16.172	0.000	94	248182	25.0	25.1	
107 1,2,4-Trimethylbenzene	105	16.233	16.233	0.000	97	1171357	25.0	25.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	16.440	16.440	0.000	94	1436274	25.0	25.4	
112 4-Isopropyltoluene	119	16.592	16.592	0.000	97	1263964	25.0	25.4	
110 1,3-Dichlorobenzene	146	16.677	16.677	0.000	99	665756	25.0	25.0	
111 1,4-Dichlorobenzene	146	16.787	16.787	0.000	95	664185	25.0	24.9	
115 n-Butylbenzene	91	17.109	17.109	0.000	98	1092462	25.0	25.5	
116 1,2-Dichlorobenzene	146	17.267	17.267	0.000	98	668330	25.0	25.0	
117 1,2-Dibromo-3-Chloropropan	75	18.241	18.241	0.000	82	108433	25.0	25.6	
119 1,2,4-Trichlorobenzene	180	19.318	19.318	0.000	95	501375	25.0	25.1	
120 Hexachlorobutadiene	225	19.470	19.470	0.000	98	189736	25.0	25.4	
121 Naphthalene	128	19.713	19.713	0.000	97	1697535	25.0	25.5	
122 1,2,3-Trichlorobenzene	180	20.072	20.072	0.000	95	485831	25.0	24.5	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00082	Amount Added: 12.50	Units: uL	
GAS CORP mix_00178	Amount Added: 12.50	Units: uL	
P 8260 IS_00166	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00195	Amount Added: 1.25	Units: uL	Run Reagent

Report Date: 16-Sep-2016 14:06:49 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0163.D

Injection Date: 15-Sep-2016 16:50:30 Instrument ID: HP5973P Operator ID: CDC

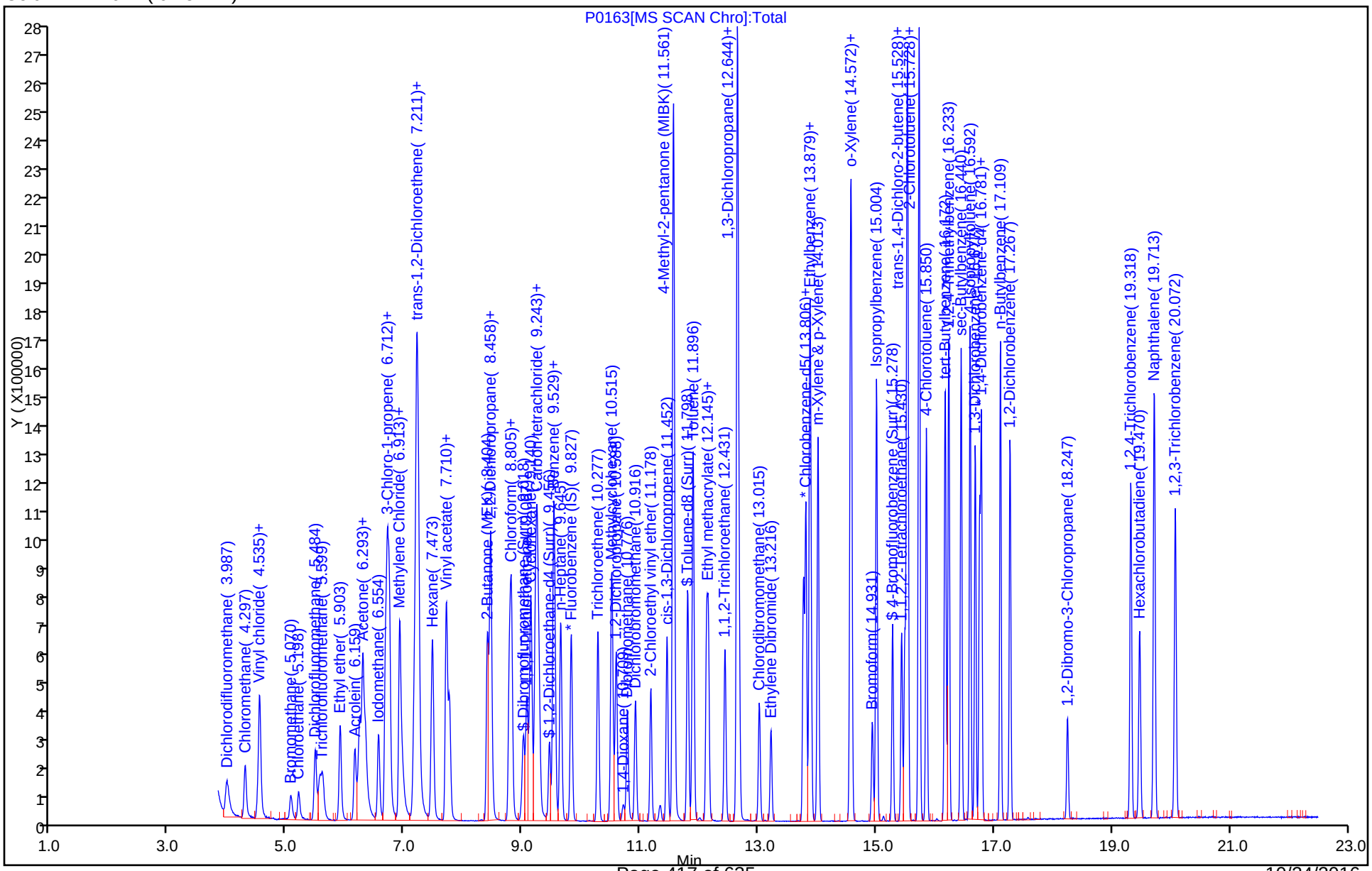
Lims ID: ICIS 5 Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 6

Method: P-8260H2O Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

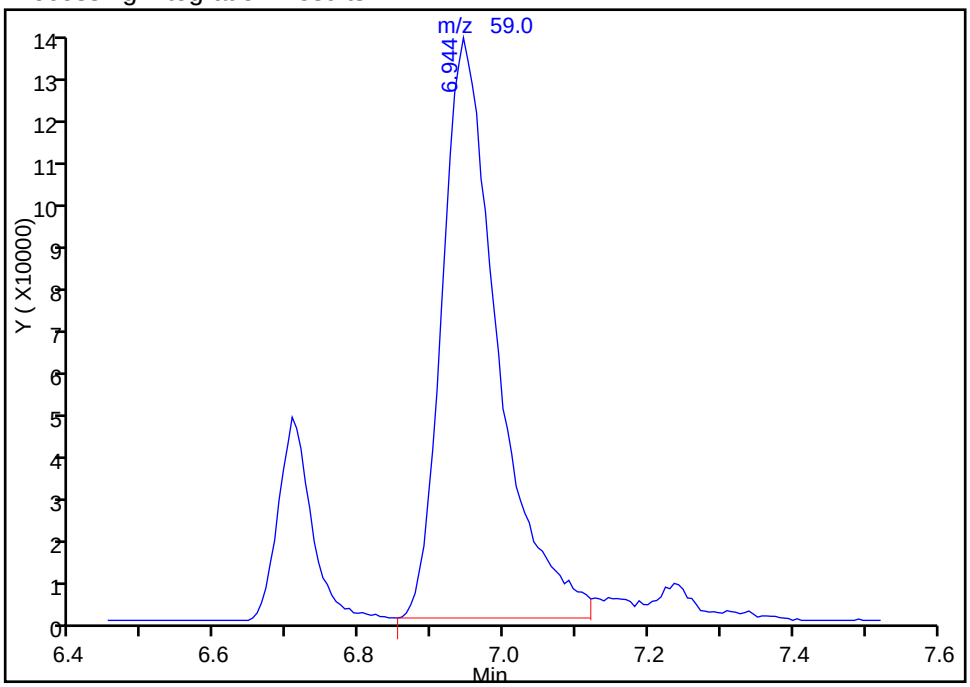
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0163.D				
Injection Date:	15-Sep-2016 16:50:30	Instrument ID:	HP5973P		
Lims ID:	ICIS 5				
Client ID:					
Operator ID:	CDC	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

33 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

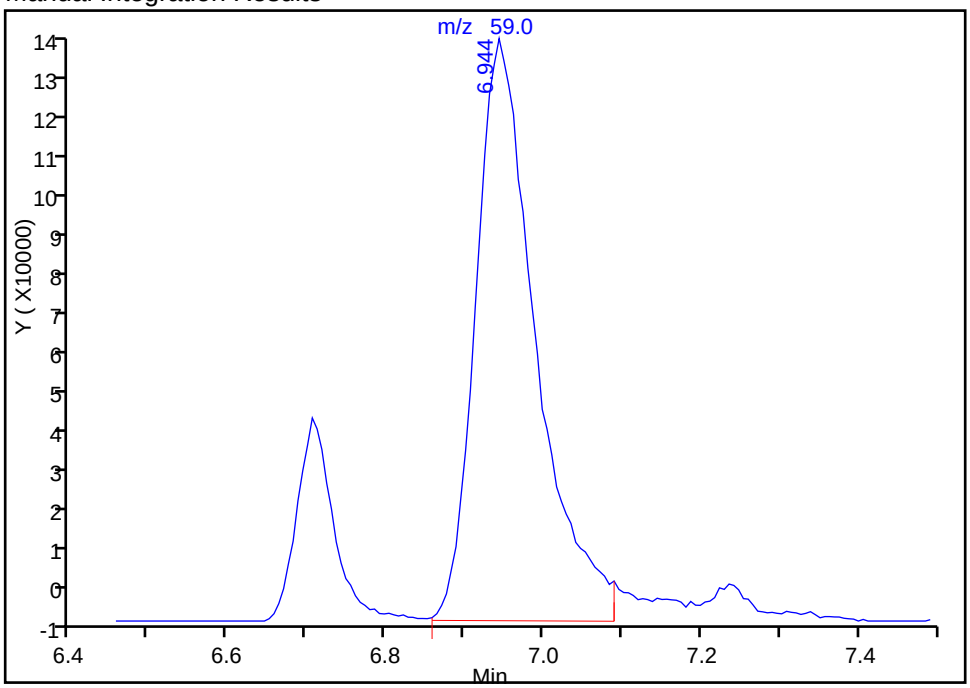
Processing Integration Results

RT: 6.94
Area: 694593
Amount: 256.6243
Amount Units: ug/L



Manual Integration Results

RT: 6.94
Area: 691395
Amount: 246.9473
Amount Units: ug/L



Reviewer: cwiklinc, 16-Sep-2016 13:05:15

Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

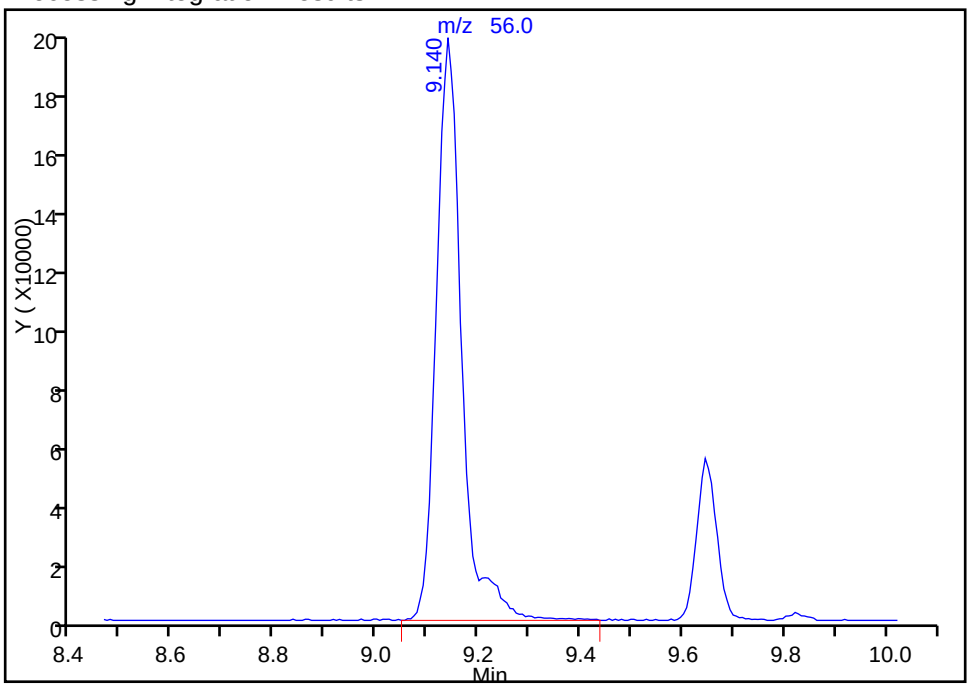
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0163.D				
Injection Date:	15-Sep-2016 16:50:30	Instrument ID:	HP5973P		
Lims ID:	ICIS 5				
Client ID:					
Operator ID:	CDC	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

54 Cyclohexane, CAS: 110-82-7

Signal: 1

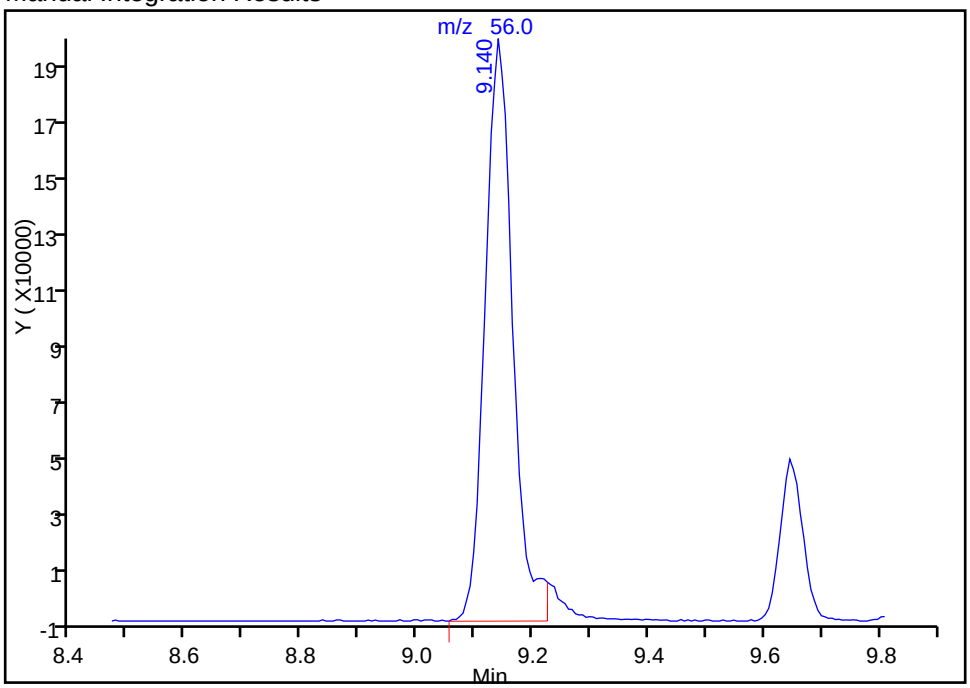
Processing Integration Results

RT: 9.14
Area: 676775
Amount: 25.955608
Amount Units: ug/L



Manual Integration Results

RT: 9.14
Area: 649915
Amount: 25.225982
Amount Units: ug/L



Reviewer: cwiklinc, 16-Sep-2016 12:56:59

Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

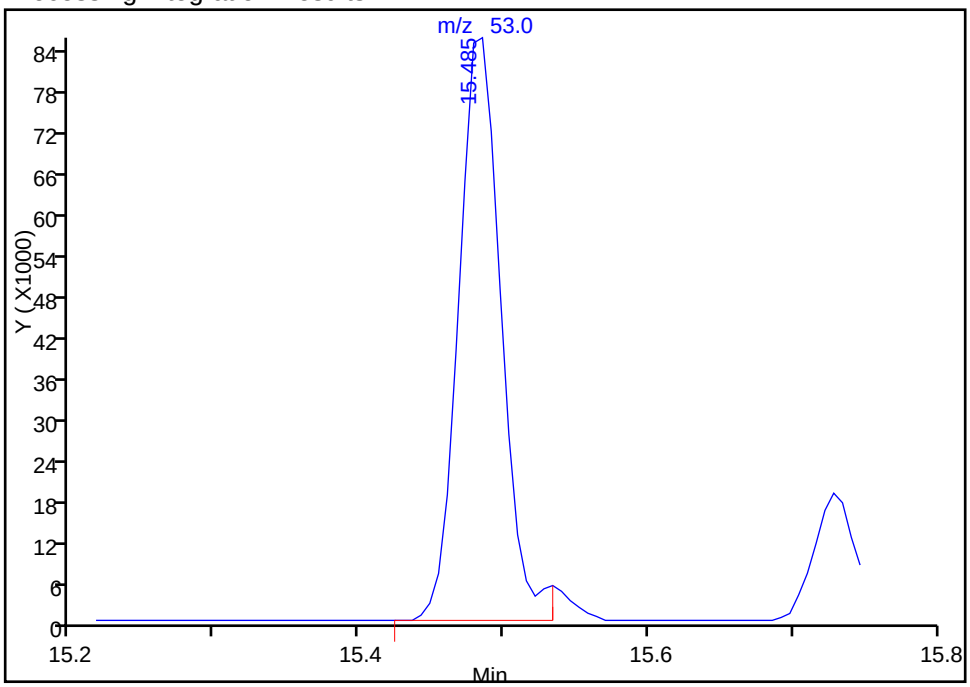
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0163.D				
Injection Date:	15-Sep-2016 16:50:30	Instrument ID:	HP5973P		
Lims ID:	ICIS 5				
Client ID:					
Operator ID:	CDC	ALS Bottle#:	6	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

98 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

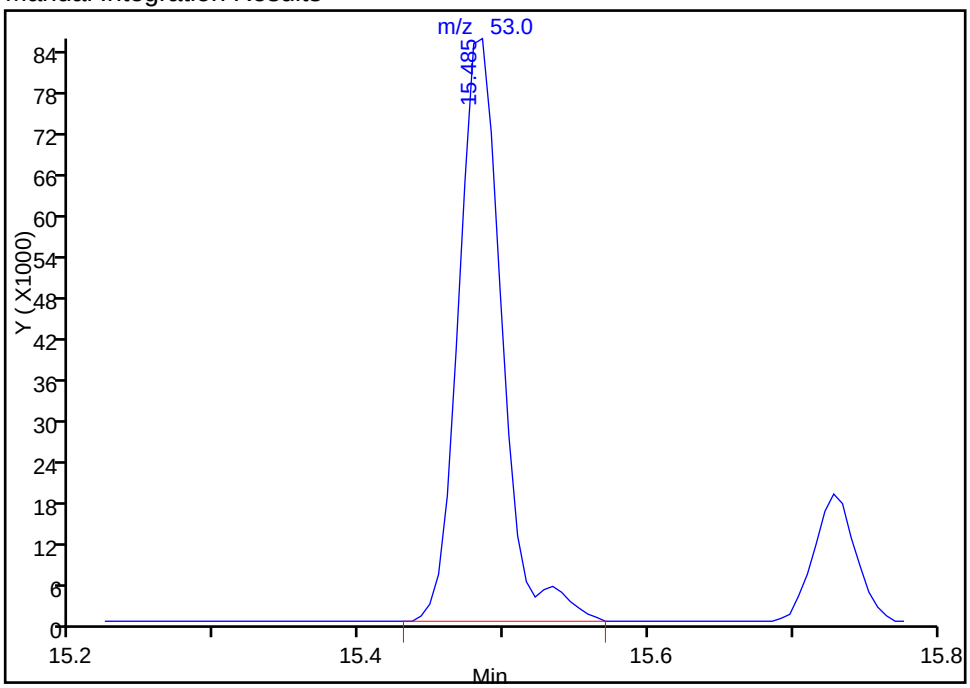
Processing Integration Results

RT: 15.49
Area: 175860
Amount: 25.060340
Amount Units: ug/L



Manual Integration Results

RT: 15.49
Area: 179761
Amount: 25.461763
Amount Units: ug/L



Reviewer: cwiklinc, 16-Sep-2016 13:13:26

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0164.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 15-Sep-2016 17:17:30 ALS Bottle#: 7 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 6
Misc. Info.: 480-0056398-010
Operator ID: CDC Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub11

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Sep-2016 14:07:00 Calib Date: 15-Sep-2016 21:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: gentilej Date: 16-Sep-2016 10:26:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.828	9.827	0.001	98	157576	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.770	13.763	0.007	85	316434	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.751	16.756	-0.005	96	325234	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.018	9.018	0.000	93	192253	25.0	24.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.463	9.456	0.007	0	124498	25.0	24.6	
$ 5 Toluene-d8 (Surr)	98	11.805	11.798	0.007	92	700527	25.0	24.9	
$ 6 4-Bromofluorobenzene (Surr	174	15.278	15.278	0.000	89	240087	25.0	24.9	
10 Dichlorodifluoromethane	85	3.987	3.987	0.000	99	655704	50.0	50.0	
11 Chloromethane	50	4.304	4.297	0.007	99	667357	50.0	48.6	
17 Vinyl chloride	62	4.529	4.516	0.013	98	487868	50.0	49.1	
144 Butadiene	54	4.547	4.541	0.006	95	520763	50.0	48.4	
12 Bromomethane	94	5.076	5.070	0.006	92	209309	50.0	49.0	
13 Chloroethane	64	5.204	5.204	0.000	97	255260	50.0	48.1	
19 Dichlorofluoromethane	67	5.496	5.484	0.012	98	946017	50.0	54.4	
14 Trichlorofluoromethane	101	5.606	5.599	0.007	99	950709	50.0	51.7	
20 Ethyl ether	59	5.910	5.903	0.007	98	614419	50.0	50.1	
22 Acrolein	56	6.159	6.159	0.000	99	811486	250.0	268.5	
16 1,1,2-Trichloro-1,2,2-trif	101	6.250	6.238	0.012	94	581840	50.0	47.8	
25 1,1-Dichloroethene	96	6.293	6.293	0.000	94	509003	50.0	48.0	
24 Acetone	43	6.336	6.335	0.001	99	1579639	250.0	244.1	
18 Iodomethane	142	6.561	6.554	0.007	98	1006552	50.0	49.5	
27 Carbon disulfide	76	6.676	6.670	0.006	100	1810688	50.0	50.6	
30 Methyl acetate	43	6.713	6.706	0.007	100	4142262	250.0	244.1	
28 3-Chloro-1-propene	41	6.743	6.743	0.000	83	1168959	50.0	46.7	
31 Methylene Chloride	84	6.920	6.913	0.007	94	558872	50.0	51.2	
33 2-Methyl-2-propanol	59	6.944	6.944	0.000	99	1429679	500.0	497.5	M
32 Methyl tert-butyl ether	73	7.169	7.169	0.000	99	1756434	50.0	48.9	
34 Acrylonitrile	53	7.212	7.205	0.007	98	3816395	500.0	473.3	
35 trans-1,2-Dichloroethene	96	7.242	7.236	0.006	93	519777	50.0	46.8	
36 Hexane	57	7.473	7.473	0.000	96	948308	50.0	47.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
38 Vinyl acetate	43	7.710	7.704	0.006	96	3687542	100.0	100.5	
40 1,1-Dichloroethane	63	7.765	7.765	0.000	96	1115463	50.0	47.6	
44 2-Butanone (MEK)	43	8.404	8.404	0.000	98	2850280	250.0	248.5	
45 2,2-Dichloropropane	77	8.459	8.458	0.001	60	773669	50.0	48.0	
43 cis-1,2-Dichloroethene	96	8.459	8.458	0.001	86	588978	50.0	48.4	
50 Chlorobromomethane	128	8.775	8.775	0.000	92	312730	50.0	49.7	
51 Tetrahydrofuran	42	8.799	8.799	0.000	93	762374	100.0	96.0	
49 Chloroform	83	8.812	8.811	0.001	95	910112	50.0	48.2	
52 1,1,1-Trichloroethane	97	9.073	9.073	0.000	98	849080	50.0	49.9	
54 Cyclohexane	56	9.146	9.140	0.006	91	1270827	50.0	48.1	
53 Isobutyl alcohol	43	9.219	9.219	0.000	97	1716344	1250.0	1330.7	
56 1,1-Dichloropropene	75	9.244	9.243	0.001	91	713146	50.0	48.1	
55 Carbon tetrachloride	117	9.280	9.274	0.006	96	789803	50.0	49.6	
57 Benzene	78	9.529	9.529	0.000	98	2109323	50.0	49.1	
60 1,2-Dichloroethane	62	9.554	9.547	0.007	96	866244	50.0	48.8	
59 n-Heptane	43	9.645	9.645	0.000	98	931971	50.0	44.5	
62 Trichloroethene	95	10.278	10.277	0.001	94	578413	50.0	49.8	
64 Methylcyclohexane	83	10.515	10.509	0.006	98	918457	50.0	48.3	
63 1,2-Dichloropropane	63	10.588	10.588	0.000	96	623174	50.0	49.7	
68 1,4-Dioxane	88	10.710	10.715	-0.005	99	186450	1000.0	1079.5	
69 Dibromomethane	93	10.777	10.776	0.001	96	384421	50.0	50.1	
70 Dichlorobromomethane	83	10.917	10.916	0.000	96	713866	50.0	51.9	
71 2-Chloroethyl vinyl ether	63	11.178	11.178	0.000	92	518558	50.0	51.8	
73 cis-1,3-Dichloropropene	75	11.452	11.452	0.000	91	913412	50.0	51.3	
75 4-Methyl-2-pentanone (MIBK	43	11.561	11.561	0.000	98	5289843	250.0	235.9	
76 Toluene	92	11.896	11.890	0.006	98	1358005	50.0	49.1	
77 Ethyl methacrylate	69	12.121	12.121	0.000	95	822979	50.0	50.8	
78 trans-1,3-Dichloropropene	75	12.151	12.151	0.000	97	846709	50.0	51.5	
79 1,1,2-Trichloroethane	83	12.431	12.437	-0.006	93	432632	50.0	50.3	
80 Tetrachloroethene	166	12.638	12.638	0.000	95	568994	50.0	47.7	
83 2-Hexanone	43	12.644	12.644	0.000	99	3679249	250.0	238.7	
82 1,3-Dichloropropane	76	12.675	12.674	0.001	99	816626	50.0	48.8	
81 Chlorodibromomethane	129	13.015	13.015	0.000	91	628353	50.0	53.5	
85 Ethylene Dibromide	107	13.216	13.216	0.000	98	612928	50.0	51.8	
87 Chlorobenzene	112	13.806	13.806	0.000	94	1527496	50.0	49.5	
89 Ethylbenzene	91	13.873	13.873	0.000	98	2451343	50.0	48.9	
88 1,1,1,2-Tetrachloroethane	131	13.891	13.891	0.000	95	572718	50.0	49.5	
90 m-Xylene & p-Xylene	106	14.013	14.013	0.000	0	1044653	50.0	48.7	
93 o-Xylene	106	14.561	14.560	0.001	97	1041543	50.0	49.0	
94 Styrene	104	14.579	14.579	0.000	96	1672871	50.0	49.7	
92 Bromoform	173	14.932	14.931	0.001	96	440452	50.0	55.9	
95 Isopropylbenzene	105	15.005	15.004	0.001	96	2633138	50.0	50.3	
97 1,1,2,2-Tetrachloroethane	83	15.431	15.430	0.001	95	817236	50.0	51.8	
98 trans-1,4-Dichloro-2-buten	53	15.485	15.485	0.000	89	367394	50.0	52.1	
100 Bromobenzene	156	15.522	15.522	0.000	94	636814	50.0	49.4	
101 1,2,3-Trichloropropane	110	15.522	15.522	0.000	73	232977	50.0	48.0	
99 N-Propylbenzene	91	15.534	15.534	0.000	99	2885078	50.0	49.2	
103 2-Chlorotoluene	126	15.723	15.722	0.001	96	613466	50.0	48.6	
102 1,3,5-Trimethylbenzene	105	15.729	15.728	0.001	95	2154651	50.0	49.9	
105 4-Chlorotoluene	126	15.850	15.850	0.000	98	668494	50.0	50.6	
106 tert-Butylbenzene	134	16.173	16.172	0.001	94	496759	50.0	50.3	
107 1,2,4-Trimethylbenzene	105	16.234	16.233	0.001	97	2319070	50.0	50.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	16.440	16.440	0.000	94	2862465	50.0	50.6	
112 4-Isopropyltoluene	119	16.592	16.592	0.000	97	2509444	50.0	50.5	
110 1,3-Dichlorobenzene	146	16.678	16.677	0.001	99	1323414	50.0	49.7	
111 1,4-Dichlorobenzene	146	16.787	16.787	0.000	94	1332264	50.0	50.1	
115 n-Butylbenzene	91	17.110	17.109	0.001	98	2169583	50.0	50.6	
116 1,2-Dichlorobenzene	146	17.268	17.267	0.001	98	1351260	50.0	50.6	
117 1,2-Dibromo-3-Chloropropan	75	18.241	18.241	0.000	83	230770	50.0	54.5	
119 1,2,4-Trichlorobenzene	180	19.318	19.318	0.000	95	1005299	50.0	50.4	
120 Hexachlorobutadiene	225	19.470	19.470	0.000	98	371454	50.0	49.7	
121 Naphthalene	128	19.713	19.713	0.000	97	3395975	50.0	51.0	
122 1,2,3-Trichlorobenzene	180	20.072	20.072	0.000	96	988052	50.0	49.8	
S 123 1,2-Dichloroethene, Total	1				0			95.2	
S 124 1,3-Dichloropropene, Total	1				0			102.9	
S 125 Total BTEX	1				0			244.9	
S 126 Xylenes, Total	1				0			97.8	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00082	Amount Added: 25.00	Units: uL	
GAS CORP mix_00178	Amount Added: 25.00	Units: uL	
P 8260 IS_00166	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00195	Amount Added: 1.25	Units: uL	Run Reagent

Report Date: 16-Sep-2016 14:07:06 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0164.D

Injection Date: 15-Sep-2016 17:17:30 Instrument ID: HP5973P Operator ID: CDC

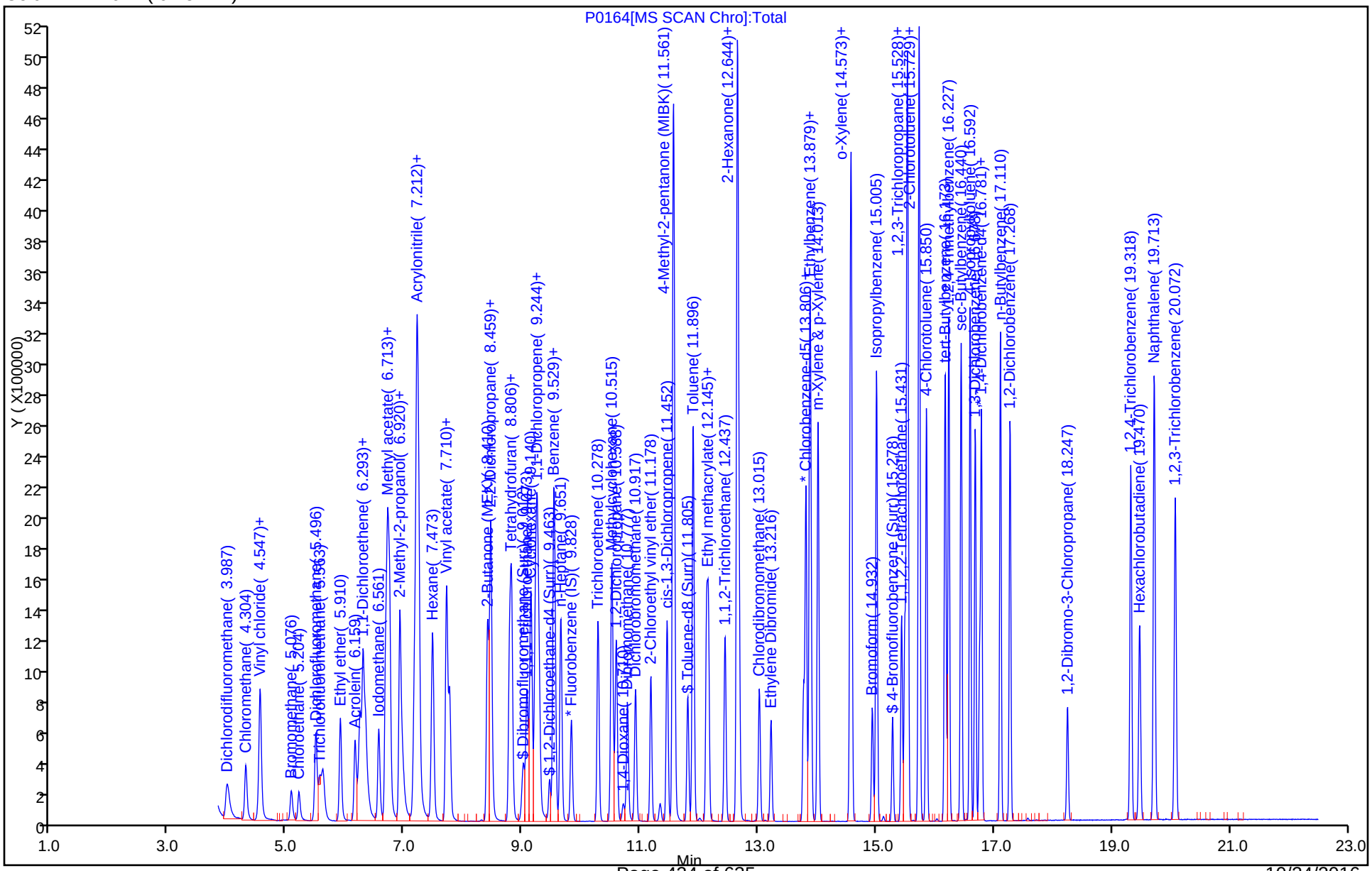
Lims ID: IC 6 Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 7

Method: P-8260H2O Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

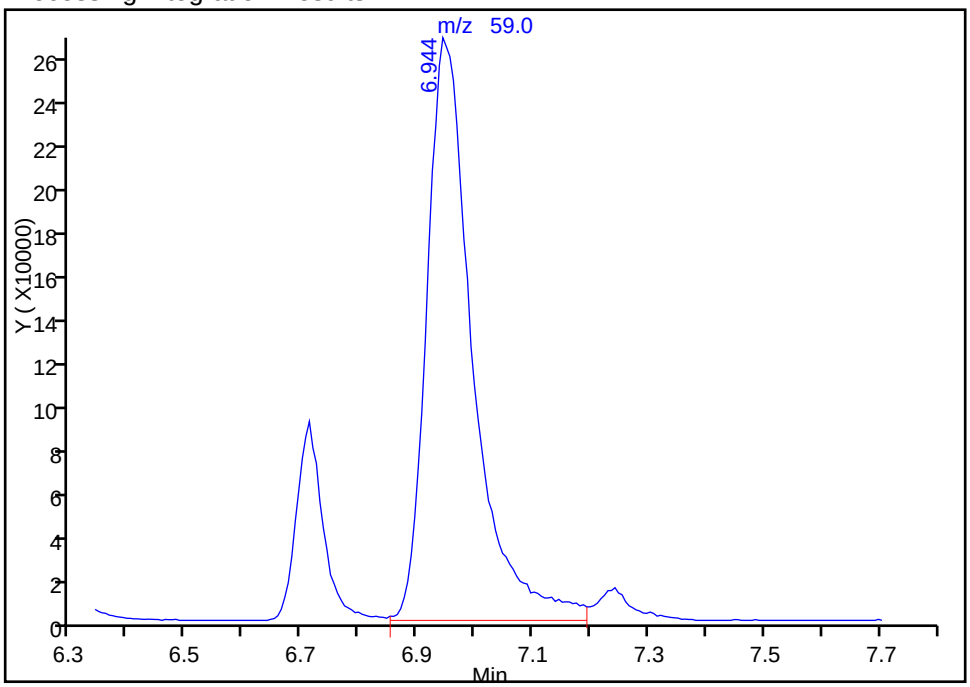
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0164.D				
Injection Date:	15-Sep-2016 17:17:30	Instrument ID:	HP5973P		
Lims ID:	IC 6				
Client ID:					
Operator ID:	CDC	ALS Bottle#:	7	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

33 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

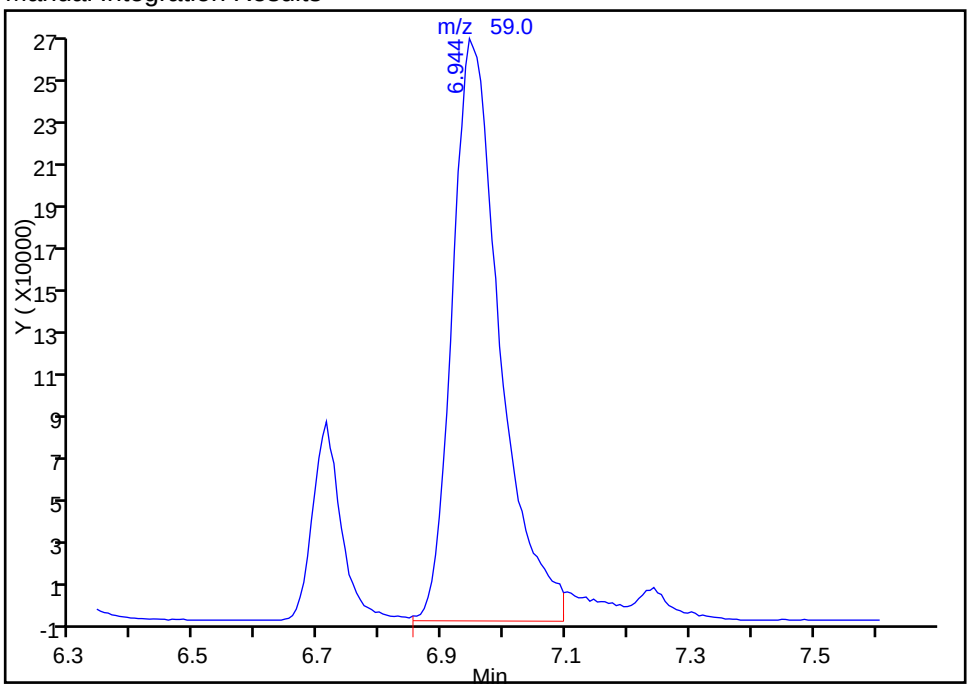
Processing Integration Results

RT: 6.94
Area: 1477409
Amount: 529.1890
Amount Units: ug/L



Manual Integration Results

RT: 6.94
Area: 1429679
Amount: 497.4918
Amount Units: ug/L



Reviewer: cwiklinc, 16-Sep-2016 13:02:27

Audit Action: Manually Integrated Audit Reason: Other

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0165.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 15-Sep-2016 17:44:30 ALS Bottle#: 8 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 7
Misc. Info.: 480-0056398-011
Operator ID: CDC Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub11

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Sep-2016 14:07:10 Calib Date: 15-Sep-2016 21:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: gentilej Date: 16-Sep-2016 10:32:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.827	9.827	0.000	98	160500	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.763	13.763	0.000	86	316878	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.751	16.756	-0.006	95	317030	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.018	9.018	0.000	93	193867	25.0	24.5	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.456	9.456	0.000	0	127555	25.0	24.8	
$ 5 Toluene-d8 (Surr)	98	11.805	11.798	0.007	93	709922	25.0	25.2	
$ 6 4-Bromofluorobenzene (Surr	174	15.278	15.278	0.000	90	241722	25.0	25.1	
10 Dichlorodifluoromethane	85	3.993	3.987	0.006	99	1286953	100.0	96.3	
11 Chloromethane	50	4.304	4.297	0.007	99	1345244	100.0	96.2	
17 Vinyl chloride	62	4.529	4.516	0.013	98	976777	100.0	96.4	
144 Butadiene	54	4.553	4.541	0.012	93	1031619	100.0	94.1	
12 Bromomethane	94	5.082	5.070	0.012	92	431741	100.0	99.1	
13 Chloroethane	64	5.204	5.204	0.000	97	548566	100.0	101.5	
19 Dichlorofluoromethane	67	5.490	5.484	0.006	98	1629464	100.0	92.0	
14 Trichlorofluoromethane	101	5.605	5.599	0.006	98	1844175	100.0	98.5	
20 Ethyl ether	59	5.910	5.903	0.007	98	1196581	100.0	95.8	
22 Acrolein	56	6.153	6.159	-0.006	100	1594366	500.0	518.0	
16 1,1,2-Trichloro-1,2,2-trif	101	6.244	6.238	0.006	93	1117718	100.0	90.2	
25 1,1-Dichloroethene	96	6.293	6.293	0.000	94	994872	100.0	92.2	
24 Acetone	43	6.335	6.335	0.000	99	3016175	500.0	457.6	
18 Iodomethane	142	6.561	6.554	0.006	98	1977753	100.0	95.5	
27 Carbon disulfide	76	6.670	6.670	0.000	100	3292174	100.0	90.4	
30 Methyl acetate	43	6.707	6.706	0.000	100	7469251	500.0	432.1	
28 3-Chloro-1-propene	41	6.743	6.743	0.000	90	2206063	100.0	86.5	
31 Methylene Chloride	84	6.913	6.913	0.000	94	1070748	100.0	97.5	
33 2-Methyl-2-propanol	59	6.950	6.944	0.006	99	2726258	1000.0	931.4	M
32 Methyl tert-butyl ether	73	7.169	7.169	0.000	99	3331256	100.0	91.0	
34 Acrylonitrile	53	7.211	7.205	0.006	98	6839322	1000.0	832.7	
35 trans-1,2-Dichloroethene	96	7.236	7.236	0.000	93	970313	100.0	85.7	
36 Hexane	57	7.473	7.473	0.000	95	1865257	100.0	92.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
38 Vinyl acetate	43	7.710	7.704	0.006	97	6915373	200.0	185.0	
40 1,1-Dichloroethane	63	7.759	7.765	-0.006	96	2153238	100.0	90.2	
44 2-Butanone (MEK)	43	8.404	8.404	0.000	98	5384851	500.0	460.9	
45 2,2-Dichloropropane	77	8.459	8.458	0.001	93	1457733	100.0	88.9	
43 cis-1,2-Dichloroethene	96	8.459	8.458	0.001	86	1121389	100.0	90.4	
50 Chlorobromomethane	128	8.775	8.775	0.000	92	607313	100.0	94.8	
51 Tetrahydrofuran	42	8.799	8.799	0.000	94	1414196	200.0	174.8	
49 Chloroform	83	8.818	8.811	0.007	95	1732481	100.0	90.1	
52 1,1,1-Trichloroethane	97	9.073	9.073	0.000	98	1665180	100.0	96.2	
54 Cyclohexane	56	9.140	9.140	0.000	92	2460430	100.0	91.3	
53 Isobutyl alcohol	43	9.219	9.219	0.000	97	3140071	2500.0	2390.2	
56 1,1-Dichloropropene	75	9.243	9.243	0.000	91	1327666	100.0	87.9	
55 Carbon tetrachloride	117	9.274	9.274	0.000	96	1517021	100.0	93.6	
57 Benzene	78	9.529	9.529	0.000	98	4008034	100.0	91.7	
60 1,2-Dichloroethane	62	9.554	9.547	0.007	96	1642673	100.0	90.8	
59 n-Heptane	43	9.651	9.645	0.006	98	1798158	100.0	84.3	
62 Trichloroethene	95	10.278	10.277	0.001	95	1122711	100.0	94.9	
64 Methylcyclohexane	83	10.515	10.509	0.006	98	1784816	100.0	92.2	
63 1,2-Dichloropropane	63	10.588	10.588	0.000	96	1218946	100.0	95.5	
68 1,4-Dioxane	88	10.703	10.715	-0.012	99	357997	2000.0	2069.9	
69 Dibromomethane	93	10.776	10.776	0.000	96	747958	100.0	95.7	
70 Dichlorobromomethane	83	10.916	10.916	0.000	97	1427981	100.0	101.8	
71 2-Chloroethyl vinyl ether	63	11.178	11.178	0.000	91	1013143	100.0	99.3	
73 cis-1,3-Dichloropropene	75	11.452	11.452	0.000	94	1797249	100.0	99.2	
75 4-Methyl-2-pentanone (MIBK	43	11.561	11.561	0.000	98	8981923	500.0	400.0	
76 Toluene	92	11.896	11.890	0.006	98	2593435	100.0	93.6	
77 Ethyl methacrylate	69	12.121	12.121	0.000	95	1558515	100.0	96.0	
78 trans-1,3-Dichloropropene	75	12.151	12.151	0.000	98	1598119	100.0	97.1	
79 1,1,2-Trichloroethane	83	12.437	12.437	0.000	93	834094	100.0	96.9	
80 Tetrachloroethene	166	12.638	12.638	0.000	95	1028960	100.0	86.1	
83 2-Hexanone	43	12.644	12.644	0.000	98	6041070	500.0	391.4	
82 1,3-Dichloropropane	76	12.675	12.674	0.000	99	1435348	100.0	85.7	
81 Chlorodibromomethane	129	13.015	13.015	0.000	90	1256560	100.0	106.9	
85 Ethylene Dibromide	107	13.216	13.216	0.000	99	1178336	100.0	99.4	
87 Chlorobenzene	112	13.806	13.806	0.000	94	2910017	100.0	94.2	
89 Ethylbenzene	91	13.873	13.873	0.000	98	4462216	100.0	88.9	
88 1,1,1,2-Tetrachloroethane	131	13.891	13.891	0.000	96	1070301	100.0	92.4	
90 m-Xylene & p-Xylene	106	14.013	14.013	0.000	0	1957688	100.0	91.2	
93 o-Xylene	106	14.560	14.560	0.000	97	1885601	100.0	88.6	
94 Styrene	104	14.579	14.579	0.000	95	3023135	100.0	89.7	
92 Bromoform	173	14.932	14.931	0.001	96	891096	100.0	113.0	
95 Isopropylbenzene	105	15.005	15.004	0.000	96	4912809	100.0	96.3	
97 1,1,2,2-Tetrachloroethane	83	15.430	15.430	0.000	95	1593538	100.0	103.6	
98 trans-1,4-Dichloro-2-buten	53	15.485	15.485	0.000	94	700111	100.0	101.8	M
100 Bromobenzene	156	15.522	15.522	0.000	93	1134597	100.0	90.3	
101 1,2,3-Trichloropropane	110	15.522	15.522	0.000	76	415605	100.0	87.8	
99 N-Propylbenzene	91	15.540	15.534	0.006	98	4954182	100.0	86.7	
103 2-Chlorotoluene	126	15.722	15.722	0.000	96	1099294	100.0	89.3	
102 1,3,5-Trimethylbenzene	105	15.728	15.728	0.000	95	3835275	100.0	91.1	
105 4-Chlorotoluene	126	15.850	15.850	0.000	98	1247938	100.0	96.8	
106 tert-Butylbenzene	134	16.173	16.172	0.001	94	945588	100.0	98.2	
107 1,2,4-Trimethylbenzene	105	16.233	16.233	0.000	96	4258254	100.0	95.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	16.440	16.440	0.000	94	5310384	100.0	96.3	
112 4-Isopropyltoluene	119	16.592	16.592	0.000	97	4644201	100.0	95.8	
110 1,3-Dichlorobenzene	146	16.677	16.677	0.000	99	2461460	100.0	94.9	
111 1,4-Dichlorobenzene	146	16.787	16.787	0.000	94	2467700	100.0	95.2	
115 n-Butylbenzene	91	17.109	17.109	0.000	97	4060910	100.0	97.2	
116 1,2-Dichlorobenzene	146	17.274	17.267	0.007	98	2537224	100.0	97.4	
117 1,2-Dibromo-3-Chloropropan	75	18.241	18.241	0.000	84	455600	100.0	110.3	
119 1,2,4-Trichlorobenzene	180	19.318	19.318	0.000	95	1928718	100.0	99.3	
120 Hexachlorobutadiene	225	19.470	19.470	0.000	98	739579	100.0	101.6	
121 Naphthalene	128	19.719	19.713	0.006	97	6396745	100.0	98.6	
122 1,2,3-Trichlorobenzene	180	20.072	20.072	0.000	97	1907403	100.0	98.7	
S 123 1,2-Dichloroethene, Total	1				0			176.2	
S 124 1,3-Dichloropropene, Total	1				0			196.3	
S 125 Total BTEX	1				0			454.0	
S 126 Xylenes, Total	1				0			179.8	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00082	Amount Added: 50.00	Units: uL	
GAS CORP mix_00178	Amount Added: 50.00	Units: uL	
P 8260 IS_00166	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00195	Amount Added: 1.25	Units: uL	Run Reagent

Report Date: 16-Sep-2016 14:07:15 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0165.D

Injection Date: 15-Sep-2016 17:44:30 Instrument ID: HP5973P Operator ID: CDC

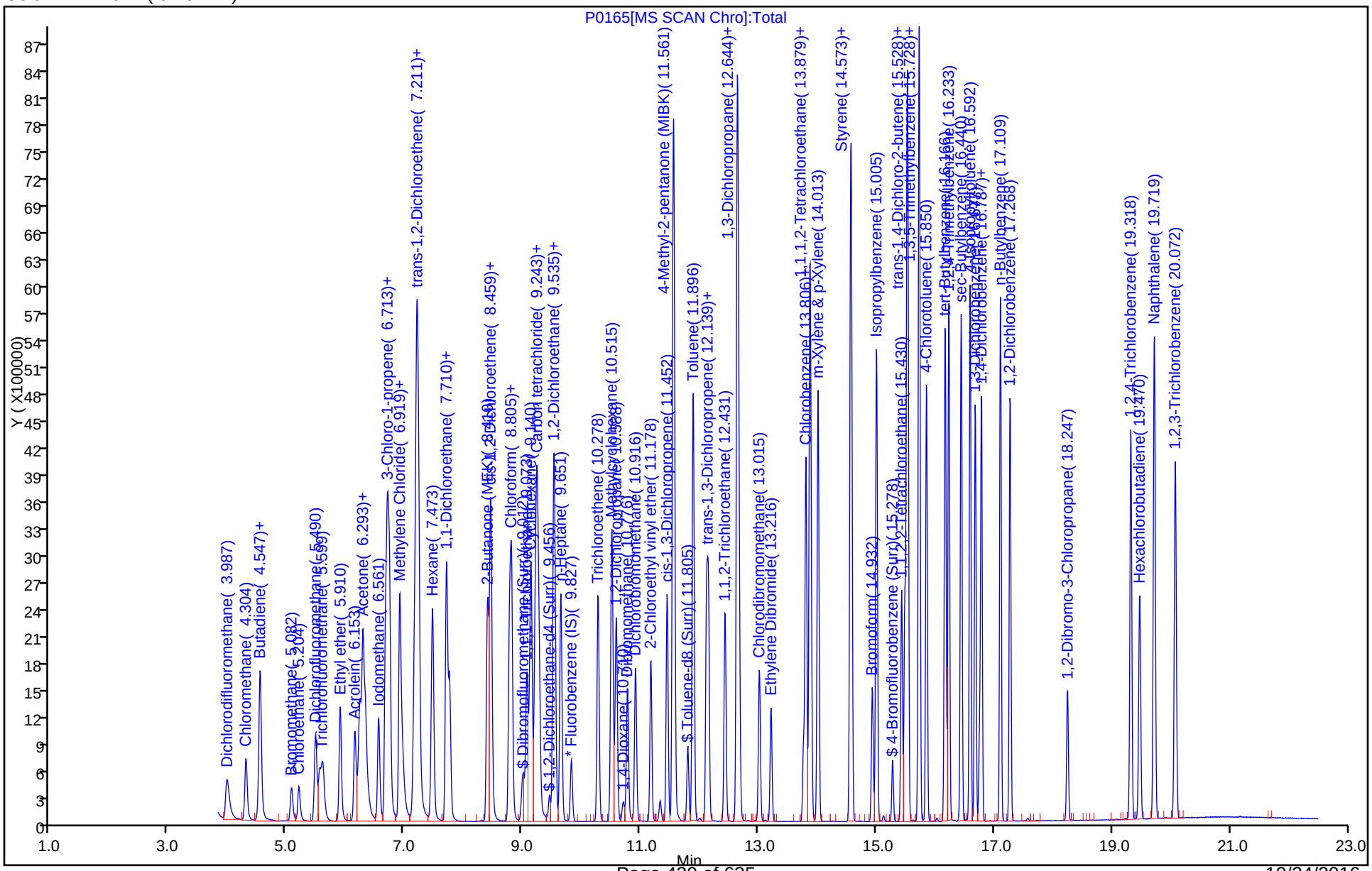
Lims ID: IC 7 Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 8

Method: P-8260H2O Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

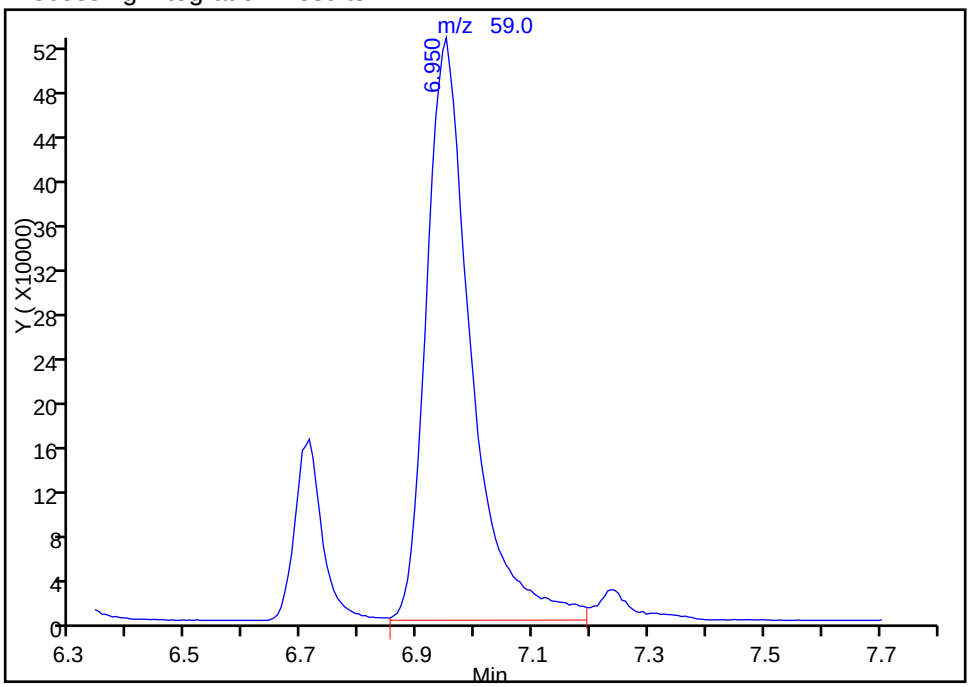
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0165.D				
Injection Date:	15-Sep-2016 17:44:30	Instrument ID:	HP5973P		
Lims ID:	IC 7				
Client ID:					
Operator ID:	CDC	ALS Bottle#:	8	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

33 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

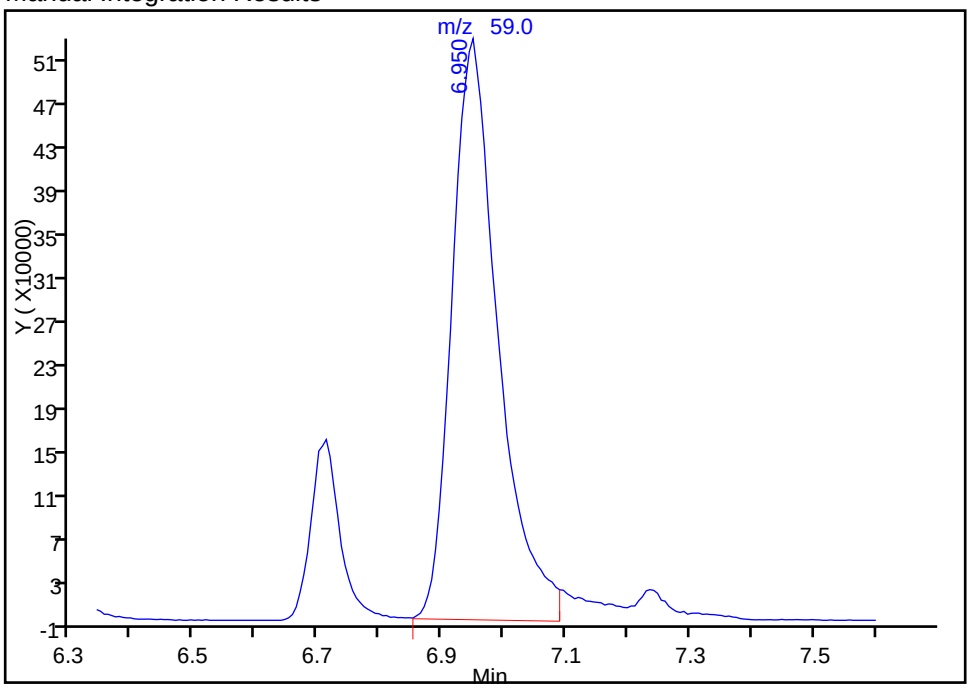
Processing Integration Results

RT: 6.95
Area: 2835112
Amount: 991.5779
Amount Units: ug/L



Manual Integration Results

RT: 6.95
Area: 2726258
Amount: 931.3852
Amount Units: ug/L



Reviewer: cwiklinc, 16-Sep-2016 13:01:56

Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

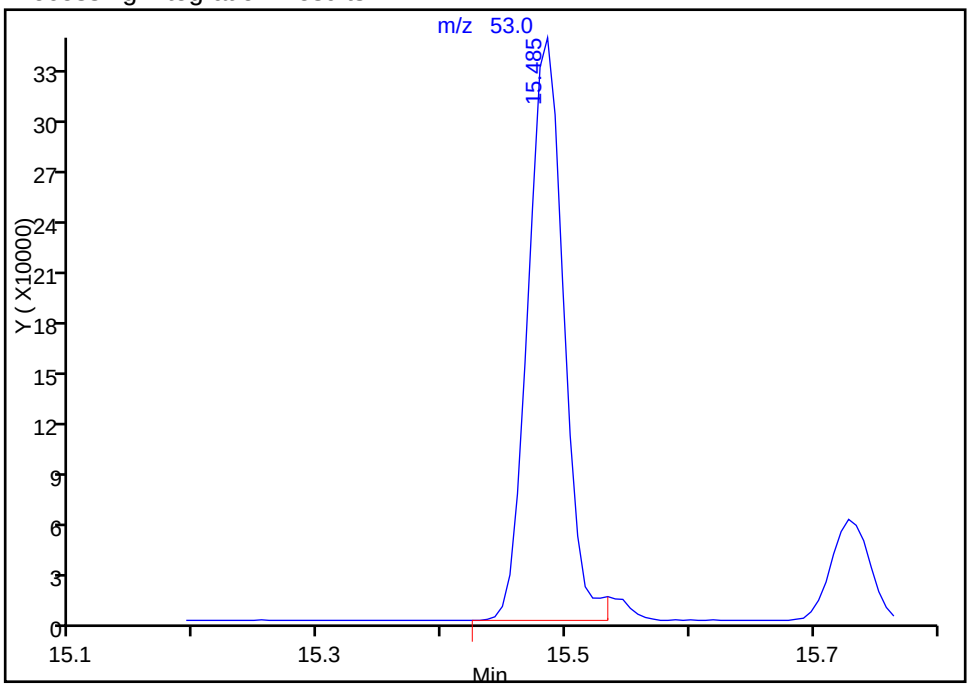
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0165.D				
Injection Date:	15-Sep-2016 17:44:30	Instrument ID:	HP5973P		
Lims ID:	IC 7				
Client ID:					
Operator ID:	CDC	ALS Bottle#:	8	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

98 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

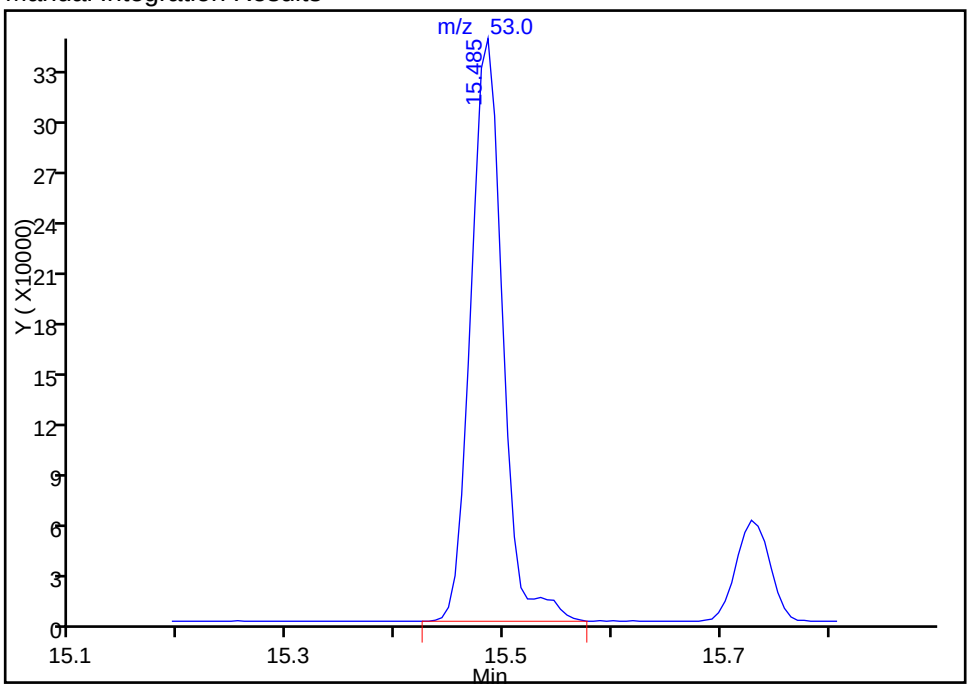
Processing Integration Results

RT: 15.49
Area: 686281
Amount: 100.0827
Amount Units: ug/L



Manual Integration Results

RT: 15.49
Area: 700111
Amount: 101.8063
Amount Units: ug/L



Reviewer: cwiklinc, 16-Sep-2016 13:13:41

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Lab Sample ID: CCVIS 480-325847/2 Calibration Date: 10/15/2016 17:32

Instrument ID: HP5973N Calib Start Date: 10/05/2016 22:54

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 10/06/2016 02:01

Lab File ID: N8912.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	1.296	1.113	0.1000	21.5	25.0	-14.1	50.0
Chloromethane	Ave	1.839	1.549	0.1000	21.0	25.0	-15.8	20.0
Vinyl chloride	Ave	1.514	1.309	0.1000	21.6	25.0	-13.5	20.0
Butadiene	Ave	1.508	1.328		22.0	25.0	-11.9	20.0
Bromomethane	Ave	1.064	0.9500	0.1000	22.3	25.0	-10.7	50.0
Chloroethane	Ave	0.9344	0.8463	0.1000	22.6	25.0	-9.4	50.0
Dichlorofluoromethane	Ave	2.272	2.091		23.0	25.0	-8.0	20.0
Trichlorofluoromethane	Ave	1.765	1.675	0.1000	23.7	25.0	-5.1	20.0
Ethyl ether	Ave	1.342	1.186		22.1	25.0	-11.6	20.0
Acrolein	Lin1		0.1970		96.7	125	-22.7	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.301	1.026	0.1000	19.7	25.0	-21.1*	20.0
1,1-Dichloroethene	Ave	1.333	1.014	0.1000	19.0	25.0	-23.9*	20.0
Acetone	Ave	0.5640	0.4388	0.1000	97.3	125	-22.2	50.0
Iodomethane	Ave	2.523	2.408		23.9	25.0	-4.6	20.0
Carbon disulfide	Ave	4.241	3.103	0.1000	18.3	25.0	-26.8*	20.0
Allyl chloride	Ave	2.558	2.028		19.8	25.0	-20.7*	20.0
Methyl acetate	Ave	1.429	1.245	0.1000	109	125	-12.8	50.0
Methylene Chloride	Lin1		1.456	0.1000	23.4	25.0	-6.4	20.0
2-Methyl-2-propanol	Ave	0.2215	0.1831		207	250	-17.4	50.0
Methyl tert-butyl ether	Ave	4.707	4.170	0.1000	22.1	25.0	-11.4	20.0
trans-1,2-Dichloroethene	Ave	1.527	1.325	0.1000	21.7	25.0	-13.3	20.0
Acrylonitrile	Ave	0.7097	0.6129		216	250	-13.6	20.0
Hexane	Ave	1.944	1.572		20.2	25.0	-19.1	20.0
1,1-Dichloroethane	Ave	2.579	2.216	0.2000	21.5	25.0	-14.1	20.0
Vinyl acetate	Ave	3.122	3.278		52.5	50.0	5.0	20.0
2,2-Dichloropropane	Ave	1.440	1.328		23.0	25.0	-7.8	20.0
cis-1,2-Dichloroethene	Ave	1.738	1.519	0.1000	21.9	25.0	-12.6	20.0
2-Butanone (MEK)	Ave	0.7815	0.7115	0.1000	114	125	-9.0	20.0
Chlorobromomethane	Ave	0.8781	0.8437		24.0	25.0	-3.9	20.0
Tetrahydrofuran	Lin1		0.5072		47.4	50.0	-5.2	20.0
Chloroform	Ave	2.626	2.343	0.2000	22.3	25.0	-10.8	20.0
1,1,1-Trichloroethane	Ave	2.084	1.860	0.1000	22.3	25.0	-10.7	20.0
Cyclohexane	Ave	2.299	1.776	0.1000	19.3	25.0	-22.7*	20.0
Carbon tetrachloride	Ave	1.890	1.638	0.1000	21.7	25.0	-13.3	20.0
1,1-Dichloropropene	Ave	1.759	1.506		21.4	25.0	-14.4	20.0
Isobutyl alcohol	Ave	0.0882	0.0777		551	625	-11.9	50.0
Benzene	Ave	5.449	4.898	0.5000	22.5	25.0	-10.1	20.0
1,2-Dichloroethane	Ave	2.018	1.983	0.1000	24.6	25.0	-1.7	20.0
n-Heptane	Lin1		1.736		24.4	25.0	-2.2	20.0
Trichloroethene	Ave	1.394	1.307	0.2000	23.5	25.0	-6.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Lab Sample ID: CCVIS 480-325847/2 Calibration Date: 10/15/2016 17:32

Instrument ID: HP5973N Calib Start Date: 10/05/2016 22:54

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 10/06/2016 02:01

Lab File ID: N8912.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	2.459	1.921	0.1000	19.5	25.0	-21.9*	20.0
1,2-Dichloropropane	Ave	1.265	1.151	0.1000	22.7	25.0	-9.0	20.0
Dibromomethane	Ave	0.8889	0.8866	0.1000	24.9	25.0	-0.3	20.0
1,4-Dioxane	Ave	0.0039	0.0042		530	500	6.1	50.0
Bromodichloromethane	Ave	1.713	1.683	0.2000	24.6	25.0	-1.8	20.0
2-Chloroethyl vinyl ether	Ave	0.8082	0.7897		24.4	25.0	-2.3	20.0
cis-1,3-Dichloropropene	Ave	2.080	1.946	0.2000	23.4	25.0	-6.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1500	0.1297	0.1000	108	125	-13.6	20.0
Toluene	Ave	0.8667	0.7798	0.4000	22.5	25.0	-10.0	20.0
trans-1,3-Dichloropropene	Ave	0.4612	0.4191	0.1000	22.7	25.0	-9.1	20.0
Ethyl methacrylate	Ave	0.3940	0.3551		22.5	25.0	-9.9	20.0
1,1,2-Trichloroethane	Ave	0.2496	0.2223	0.1000	22.3	25.0	-10.9	20.0
Tetrachloroethene	Ave	0.3990	0.3594	0.2000	22.5	25.0	-9.9	20.0
1,3-Dichloropropane	Ave	0.4958	0.4609		23.2	25.0	-7.0	20.0
2-Hexanone	Ave	0.2497	0.2364	0.1000	118	125	-5.3	20.0
Dibromochloromethane	Ave	0.3600	0.3472	0.1000	24.1	25.0	-3.5	20.0
1,2-Dibromoethane	Ave	0.3381	0.3117		23.0	25.0	-7.8	20.0
Chlorobenzene	Ave	0.9882	0.8787	0.5000	22.2	25.0	-11.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3606	0.3518		24.4	25.0	-2.4	20.0
Ethylbenzene	Ave	1.558	1.351	0.1000	21.7	25.0	-13.3	20.0
m,p-Xylene	Ave	0.6537	0.5818	0.1000	22.3	25.0	-11.0	20.0
o-Xylene	Ave	0.6693	0.5848	0.3000	21.8	25.0	-12.6	20.0
Styrene	Ave	1.087	0.9348	0.3000	21.5	25.0	-14.0	20.0
Bromoform	Ave	0.2234	0.2143	0.1000	24.0	25.0	-4.1	50.0
Isopropylbenzene	Ave	2.803	2.507	0.1000	22.4	25.0	-10.6	20.0
Bromobenzene	Ave	0.8327	0.8129		24.4	25.0	-2.4	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7916	0.6518	0.3000	20.6	25.0	-17.7	20.0
1,2,3-Trichloropropane	Ave	0.2597	0.2280		21.9	25.0	-12.2	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2545	0.2260		22.2	25.0	-11.2	50.0
N-Propylbenzene	Ave	3.279	2.821		21.5	25.0	-14.0	20.0
2-Chlorotoluene	Ave	0.7407	0.6912		23.3	25.0	-6.7	20.0
1,3,5-Trimethylbenzene	Ave	2.354	2.114		22.5	25.0	-10.2	20.0
4-Chlorotoluene	Ave	2.287	2.049		22.4	25.0	-10.4	20.0
tert-Butylbenzene	Ave	0.5758	0.5044		21.9	25.0	-12.4	20.0
1,2,4-Trimethylbenzene	Ave	2.467	2.205		22.3	25.0	-10.6	20.0
sec-Butylbenzene	Ave	3.062	2.589		21.1	25.0	-15.5	20.0
1,3-Dichlorobenzene	Ave	1.614	1.499	0.6000	23.2	25.0	-7.1	20.0
4-Isopropyltoluene	Ave	2.724	2.419		22.2	25.0	-11.2	20.0
1,4-Dichlorobenzene	Ave	1.600	1.505	0.5000	23.5	25.0	-5.9	20.0
n-Butylbenzene	Ave	2.306	1.914		20.8	25.0	-17.0	20.0
1,2-Dichlorobenzene	Ave	1.533	1.435	0.4000	23.4	25.0	-6.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Lab Sample ID: CCVIS 480-325847/2 Calibration Date: 10/15/2016 17:32

Instrument ID: HP5973N Calib Start Date: 10/05/2016 22:54

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 10/06/2016 02:01

Lab File ID: N8912.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		0.1069	0.0500	18.9	25.0	-24.5	50.0
1,2,4-Trichlorobenzene	Ave	0.8737	0.8025	0.2000	23.0	25.0	-8.1	20.0
Hexachlorobutadiene	Ave	0.3835	0.3128		20.4	25.0	-18.4	20.0
Naphthalene	Ave	2.466	2.019		20.5	25.0	-18.1	20.0
1,2,3-Trichlorobenzene	Ave	0.8039	0.7009		21.8	25.0	-12.8	20.0
Dibromofluoromethane (Surr)	Ave	1.417	1.474		26.0	25.0	4.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.540	1.691		27.4	25.0	9.8	20.0
Toluene-d8 (Surr)	Ave	1.219	1.210		24.8	25.0	-0.7	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4447	0.4472		25.1	25.0	0.6	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8912.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 15-Oct-2016 17:32:30 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0057315-002
Operator ID: NEA Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 15-Oct-2016 18:01:15 Calib Date: 06-Oct-2016 06:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: archern Date: 15-Oct-2016 18:01:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.528	5.528	0.000	99	111729	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.527	8.527	0.000	84	466312	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.906	10.906	0.000	93	257077	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.932	4.932	0.000	93	164730	25.0	26.0	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.242	5.242	0.000	0	188880	25.0	27.4	
$ 6 Toluene-d8 (Surr)	98	7.043	7.043	0.000	93	564297	25.0	24.8	
$ 7 4-Bromofluorobenzene (Surr	174	9.774	9.774	0.000	96	208518	25.0	25.1	
11 Dichlorodifluoromethane	85	1.379	1.379	0.000	99	124366	25.0	21.5	
13 Chloromethane	50	1.525	1.525	0.000	100	173041	25.0	21.0	
14 Vinyl chloride	62	1.640	1.640	0.000	98	146278	25.0	21.6	
144 Butadiene	54	1.659	1.659	0.000	96	148410	25.0	22.0	
15 Bromomethane	94	1.926	1.926	0.000	92	106142	25.0	22.3	
16 Chloroethane	64	2.042	2.042	0.000	98	94552	25.0	22.6	
17 Dichlorofluoromethane	67	2.255	2.255	0.000	100	233576	25.0	23.0	
18 Trichlorofluoromethane	101	2.285	2.285	0.000	96	187192	25.0	23.7	
19 Ethyl ether	59	2.559	2.559	0.000	95	132533	25.0	22.1	
20 Acrolein	56	2.717	2.717	0.000	99	110056	125.0	96.7	
21 1,1,2-Trichloro-1,2,2-trif	101	2.778	2.778	0.000	89	114630	25.0	19.7	
22 1,1-Dichloroethene	96	2.778	2.778	0.000	99	113302	25.0	19.0	
23 Acetone	43	2.869	2.869	0.000	98	245134	125.0	97.3	
24 Iodomethane	142	2.924	2.924	0.000	99	269028	25.0	23.9	
25 Carbon disulfide	76	2.973	2.973	0.000	100	346642	25.0	18.3	
27 3-Chloro-1-propene	41	3.137	3.137	0.000	86	226605	25.0	19.8	
28 Methyl acetate	43	3.174	3.174	0.000	99	695781	125.0	109.0	
30 Methylene Chloride	84	3.271	3.271	0.000	95	162660	25.0	23.4	
31 2-Methyl-2-propanol	59	3.423	3.423	0.000	97	204519	250.0	206.6	
32 Methyl tert-butyl ether	73	3.502	3.502	0.000	98	465903	25.0	22.1	
33 trans-1,2-Dichloroethene	96	3.514	3.514	0.000	97	148001	25.0	21.7	
34 Acrylonitrile	53	3.532	3.532	0.000	99	684742	250.0	215.9	
35 Hexane	57	3.733	3.733	0.000	94	175663	25.0	20.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.922	3.922	0.000	98	247553	25.0	21.5	
39 Vinyl acetate	43	3.970	3.970	0.000	98	732386	50.0	52.5	
42 2,2-Dichloropropane	77	4.445	4.445	0.000	93	148348	25.0	23.0	
43 cis-1,2-Dichloroethene	96	4.469	4.469	0.000	83	169759	25.0	21.9	
44 2-Butanone (MEK)	43	4.494	4.494	0.000	100	397472	125.0	113.8	
47 Chlorobromomethane	128	4.700	4.700	0.000	91	94268	25.0	24.0	
49 Tetrahydrofuran	42	4.731	4.731	0.000	87	113335	50.0	47.4	
50 Chloroform	83	4.780	4.780	0.000	98	261772	25.0	22.3	
51 1,1,1-Trichloroethane	97	4.907	4.907	0.000	98	207854	25.0	22.3	
52 Cyclohexane	56	4.938	4.938	0.000	93	198458	25.0	19.3	
53 Carbon tetrachloride	117	5.059	5.059	0.000	98	183023	25.0	21.7	
54 1,1-Dichloropropene	75	5.066	5.066	0.000	89	168263	25.0	21.4	
56 Isobutyl alcohol	43	5.242	5.242	0.000	92	217155	625.0	550.7	
55 Benzene	78	5.260	5.260	0.000	98	547266	25.0	22.5	
57 1,2-Dichloroethane	62	5.309	5.309	0.000	97	221520	25.0	24.6	
59 n-Heptane	43	5.467	5.467	0.000	94	193948	25.0	24.4	
60 Trichloroethene	95	5.875	5.875	0.000	94	146067	25.0	23.5	
62 Methylcyclohexane	83	6.015	6.015	0.000	92	214595	25.0	19.5	
63 1,2-Dichloropropane	63	6.100	6.100	0.000	87	128605	25.0	22.7	
64 Dibromomethane	93	6.234	6.234	0.000	89	99058	25.0	24.9	
66 1,4-Dioxane	88	6.240	6.240	0.000	47	38786	500.0	530.3	
67 Dichlorobromomethane	83	6.386	6.386	0.000	97	188000	25.0	24.6	
69 2-Chloroethyl vinyl ether	63	6.665	6.665	0.000	96	88227	25.0	24.4	
71 cis-1,3-Dichloropropene	75	6.805	6.805	0.000	90	217447	25.0	23.4	
72 4-Methyl-2-pentanone (MIBK	58	6.945	6.945	0.000	98	302294	125.0	108.0	
73 Toluene	92	7.110	7.110	0.000	99	363622	25.0	22.5	
75 trans-1,3-Dichloropropene	75	7.371	7.371	0.000	98	195424	25.0	22.7	
77 Ethyl methacrylate	69	7.426	7.426	0.000	89	165595	25.0	22.5	
78 1,1,2-Trichloroethane	83	7.554	7.554	0.000	93	103655	25.0	22.3	
79 Tetrachloroethene	166	7.651	7.651	0.000	98	167594	25.0	22.5	
80 1,3-Dichloropropane	76	7.718	7.718	0.000	94	214936	25.0	23.2	
82 2-Hexanone	43	7.785	7.785	0.000	98	551157	125.0	118.3	
83 Chlorodibromomethane	129	7.955	7.955	0.000	90	161915	25.0	24.1	
84 Ethylene Dibromide	107	8.065	8.065	0.000	99	145331	25.0	23.0	
85 Chlorobenzene	112	8.557	8.557	0.000	96	409753	25.0	22.2	
89 1,1,1,2-Tetrachloroethane	131	8.649	8.649	0.000	91	164063	25.0	24.4	
88 Ethylbenzene	91	8.655	8.655	0.000	98	629795	25.0	21.7	
90 m-Xylene & p-Xylene	106	8.776	8.776	0.000	0	271313	25.0	22.3	
91 o-Xylene	106	9.202	9.202	0.000	96	272683	25.0	21.8	
92 Styrene	104	9.227	9.227	0.000	96	435889	25.0	21.5	
93 Bromoform	173	9.458	9.458	0.000	97	99914	25.0	24.0	
95 Isopropylbenzene	105	9.586	9.586	0.000	95	644494	25.0	22.4	
97 Bromobenzene	156	9.920	9.920	0.000	88	208964	25.0	24.4	
98 1,1,2,2-Tetrachloroethane	83	9.957	9.957	0.000	96	167559	25.0	20.6	
99 1,2,3-Trichloropropane	110	9.993	9.993	0.000	91	58614	25.0	21.9	
101 trans-1,4-Dichloro-2-buten	53	10.005	10.005	0.000	90	58099	25.0	22.2	
100 N-Propylbenzene	91	10.011	10.011	0.000	98	725187	25.0	21.5	
102 2-Chlorotoluene	126	10.109	10.109	0.000	98	177696	25.0	23.3	
104 1,3,5-Trimethylbenzene	105	10.188	10.188	0.000	96	543526	25.0	22.5	
105 4-Chlorotoluene	91	10.218	10.218	0.000	97	526754	25.0	22.4	
106 tert-Butylbenzene	134	10.510	10.510	0.000	92	129668	25.0	21.9	
108 1,2,4-Trimethylbenzene	105	10.559	10.559	0.000	97	566769	25.0	22.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.717	10.717	0.000	94	665587	25.0	21.1	
110 1,3-Dichlorobenzene	146	10.845	10.845	0.000	98	385434	25.0	23.2	
111 4-Isopropyltoluene	119	10.857	10.857	0.000	97	621899	25.0	22.2	
113 1,4-Dichlorobenzene	146	10.930	10.930	0.000	96	387000	25.0	23.5	
115 n-Butylbenzene	91	11.240	11.240	0.000	97	492126	25.0	20.8	
116 1,2-Dichlorobenzene	146	11.277	11.277	0.000	98	368787	25.0	23.4	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	82	27469	25.0	18.9	
119 1,2,4-Trichlorobenzene	180	12.688	12.688	0.000	94	206314	25.0	23.0	
120 Hexachlorobutadiene	225	12.810	12.810	0.000	97	80403	25.0	20.4	
121 Naphthalene	128	12.895	12.895	0.000	96	519023	25.0	20.5	
122 1,2,3-Trichlorobenzene	180	13.102	13.102	0.000	94	180180	25.0	21.8	

Reagents:

8260 CORP mix_00083	Amount Added: 12.50	Units: uL	
GAS CORP mix_00183	Amount Added: 12.50	Units: uL	
N_8260_Surr_00210	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00038	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 15-Oct-2016 18:01:16 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8912.D

Injection Date: 15-Oct-2016 17:32:30 Instrument ID: HP5973N Operator ID: NEA

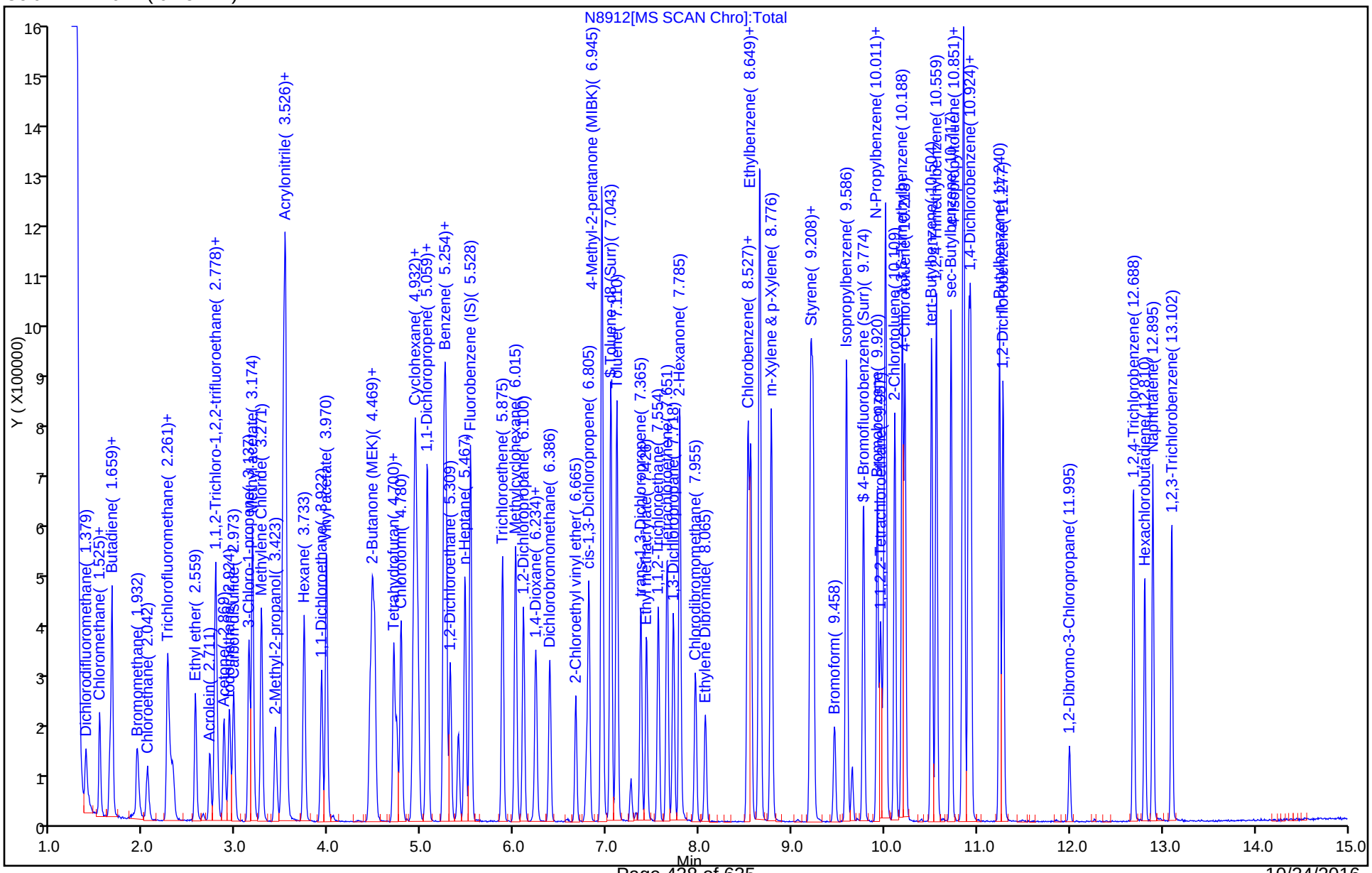
Lims ID: CCVIS Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: N-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Lab Sample ID: CCVIS 480-325887/4 Calibration Date: 10/16/2016 19:49

Instrument ID: HP5973N Calib Start Date: 10/05/2016 22:54

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 10/06/2016 02:01

Lab File ID: N8941.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	1.296	1.513	0.1000	29.2	25.0	16.7	50.0
Chloromethane	Ave	1.839	1.666	0.1000	22.6	25.0	-9.5	20.0
Vinyl chloride	Ave	1.514	1.536	0.1000	25.4	25.0	1.5	20.0
Butadiene	Ave	1.508	1.693		28.1	25.0	12.3	20.0
Bromomethane	Ave	1.064	1.011	0.1000	23.8	25.0	-4.9	50.0
Chloroethane	Ave	0.9344	0.9518	0.1000	25.5	25.0	1.9	50.0
Dichlorofluoromethane	Ave	2.272	2.203		24.2	25.0	-3.0	20.0
Trichlorofluoromethane	Ave	1.765	2.093	0.1000	29.6	25.0	18.6	20.0
Ethyl ether	Ave	1.342	1.184		22.1	25.0	-11.8	20.0
Acrolein	Lin1		0.1785		87.2	125	-30.2	50.0
1,1-Dichloroethene	Ave	1.333	1.211	0.1000	22.7	25.0	-9.1	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.301	1.290	0.1000	24.8	25.0	-0.8	20.0
Acetone	Ave	0.5640	0.4111	0.1000	91.1	125	-27.1	50.0
Iodomethane	Ave	2.523	2.542		25.2	25.0	0.8	20.0
Carbon disulfide	Ave	4.241	3.501	0.1000	20.6	25.0	-17.5	20.0
Allyl chloride	Ave	2.558	2.088		20.4	25.0	-18.4	20.0
Methyl acetate	Ave	1.429	1.182	0.1000	103	125	-17.3	50.0
Methylene Chloride	Lin1		1.376	0.1000	22.0	25.0	-12.0	20.0
2-Methyl-2-propanol	Ave	0.2215	0.1705		192	250	-23.0	50.0
Methyl tert-butyl ether	Ave	4.707	4.128	0.1000	21.9	25.0	-12.3	20.0
trans-1,2-Dichloroethene	Ave	1.527	1.422	0.1000	23.3	25.0	-6.9	20.0
Acrylonitrile	Ave	0.7097	0.5818		205	250	-18.0	20.0
Hexane	Ave	1.944	1.923		24.7	25.0	-1.1	20.0
1,1-Dichloroethane	Ave	2.579	2.336	0.2000	22.6	25.0	-9.4	20.0
Vinyl acetate	Ave	3.122	3.217		51.5	50.0	3.0	20.0
2,2-Dichloropropane	Ave	1.440	1.533		26.6	25.0	6.5	20.0
cis-1,2-Dichloroethene	Ave	1.738	1.500	0.1000	21.6	25.0	-13.7	20.0
2-Butanone (MEK)	Ave	0.7815	0.6896	0.1000	110	125	-11.8	20.0
Chlorobromomethane	Ave	0.8781	0.8844		25.2	25.0	0.7	20.0
Tetrahydrofuran	Lin1		0.4999		46.7	50.0	-6.5	20.0
Chloroform	Ave	2.626	2.405	0.2000	22.9	25.0	-8.4	20.0
1,1,1-Trichloroethane	Ave	2.084	2.130	0.1000	25.6	25.0	2.2	20.0
Cyclohexane	Ave	2.299	2.278	0.1000	24.8	25.0	-0.9	20.0
Carbon tetrachloride	Ave	1.890	1.969	0.1000	26.0	25.0	4.2	20.0
1,1-Dichloropropene	Ave	1.759	1.748		24.8	25.0	-0.6	20.0
Isobutyl alcohol	Ave	0.0882	0.0702		497	625	-20.5	50.0
Benzene	Ave	5.449	5.185	0.5000	23.8	25.0	-4.8	20.0
1,2-Dichloroethane	Ave	2.018	1.971	0.1000	24.4	25.0	-2.3	20.0
n-Heptane	Lin1		1.947		27.4	25.0	9.8	20.0
Trichloroethene	Ave	1.394	1.431	0.2000	25.7	25.0	2.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Lab Sample ID: CCVIS 480-325887/4 Calibration Date: 10/16/2016 19:49

Instrument ID: HP5973N Calib Start Date: 10/05/2016 22:54

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 10/06/2016 02:01

Lab File ID: N8941.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	2.459	2.351	0.1000	23.9	25.0	-4.4	20.0
1,2-Dichloropropane	Ave	1.265	1.158	0.1000	22.9	25.0	-8.5	20.0
Dibromomethane	Ave	0.8889	0.8671	0.1000	24.4	25.0	-2.4	20.0
1,4-Dioxane	Ave	0.0039	0.0039		502	500	0.4	50.0
Bromodichloromethane	Ave	1.713	1.729	0.2000	25.2	25.0	0.9	20.0
2-Chloroethyl vinyl ether	Ave	0.8082	0.7394		22.9	25.0	-8.5	20.0
cis-1,3-Dichloropropene	Ave	2.080	1.885	0.2000	22.7	25.0	-9.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1500	0.1274	0.1000	106	125	-15.1	20.0
Toluene	Ave	0.8667	0.7944	0.4000	22.9	25.0	-8.3	20.0
trans-1,3-Dichloropropene	Ave	0.4612	0.4288	0.1000	23.2	25.0	-7.0	20.0
Ethyl methacrylate	Ave	0.3940	0.3493		22.2	25.0	-11.4	20.0
1,1,2-Trichloroethane	Ave	0.2496	0.2287	0.1000	22.9	25.0	-8.3	20.0
Tetrachloroethene	Ave	0.3990	0.4302	0.2000	27.0	25.0	7.8	20.0
1,3-Dichloropropane	Ave	0.4958	0.4553		23.0	25.0	-8.2	20.0
2-Hexanone	Ave	0.2497	0.2226	0.1000	111	125	-10.9	20.0
Dibromochloromethane	Ave	0.3600	0.3536	0.1000	24.6	25.0	-1.8	20.0
1,2-Dibromoethane	Ave	0.3381	0.3110		23.0	25.0	-8.0	20.0
Chlorobenzene	Ave	0.9882	0.9373	0.5000	23.7	25.0	-5.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3606	0.3670		25.4	25.0	1.8	20.0
Ethylbenzene	Ave	1.558	1.464	0.1000	23.5	25.0	-6.0	20.0
m,p-Xylene	Ave	0.6537	0.6328	0.1000	24.2	25.0	-3.2	20.0
o-Xylene	Ave	0.6693	0.6310	0.3000	23.6	25.0	-5.7	20.0
Styrene	Ave	1.087	0.9882	0.3000	22.7	25.0	-9.1	20.0
Bromoform	Ave	0.2234	0.2092	0.1000	23.4	25.0	-6.3	50.0
Isopropylbenzene	Ave	2.803	2.649	0.1000	23.6	25.0	-5.5	20.0
Bromobenzene	Ave	0.8327	0.7819		23.5	25.0	-6.1	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7916	0.6193	0.3000	19.6	25.0	-21.8*	20.0
1,2,3-Trichloropropane	Ave	0.2597	0.2233		21.5	25.0	-14.0	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2545	0.2142		21.0	25.0	-15.8	50.0
N-Propylbenzene	Ave	3.279	2.945		22.5	25.0	-10.2	20.0
2-Chlorotoluene	Ave	0.7407	0.7103		24.0	25.0	-4.1	20.0
1,3,5-Trimethylbenzene	Ave	2.354	2.192		23.3	25.0	-6.9	20.0
4-Chlorotoluene	Ave	2.287	2.090		22.9	25.0	-8.6	20.0
tert-Butylbenzene	Ave	0.5758	0.5571		24.2	25.0	-3.2	20.0
1,2,4-Trimethylbenzene	Ave	2.467	2.274		23.0	25.0	-7.8	20.0
sec-Butylbenzene	Ave	3.062	2.838		23.2	25.0	-7.3	20.0
1,3-Dichlorobenzene	Ave	1.614	1.535	0.6000	23.8	25.0	-4.9	20.0
4-Isopropyltoluene	Ave	2.724	2.611		24.0	25.0	-4.1	20.0
1,4-Dichlorobenzene	Ave	1.600	1.554	0.5000	24.3	25.0	-2.9	20.0
n-Butylbenzene	Ave	2.306	2.044		22.2	25.0	-11.4	20.0
1,2-Dichlorobenzene	Ave	1.533	1.446	0.4000	23.6	25.0	-5.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Lab Sample ID: CCVIS 480-325887/4 Calibration Date: 10/16/2016 19:49

Instrument ID: HP5973N Calib Start Date: 10/05/2016 22:54

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 10/06/2016 02:01

Lab File ID: N8941.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		0.1074	0.0500	19.0	25.0	-24.1	50.0
1,2,4-Trichlorobenzene	Ave	0.8737	0.8248	0.2000	23.6	25.0	-5.6	20.0
Hexachlorobutadiene	Ave	0.3835	0.3745		24.4	25.0	-2.4	20.0
Naphthalene	Ave	2.466	2.031		20.6	25.0	-17.7	20.0
1,2,3-Trichlorobenzene	Ave	0.8039	0.7050		21.9	25.0	-12.3	20.0
Dibromofluoromethane (Surr)	Ave	1.417	1.463		25.8	25.0	3.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.540	1.657		26.9	25.0	7.6	20.0
Toluene-d8 (Surr)	Ave	1.219	1.224		25.1	25.0	0.4	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4447	0.4561		25.6	25.0	2.6	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161016-57327.b\N8941.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 16-Oct-2016 19:49:30 ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ccvis
Misc. Info.: 480-0057327-004
Operator ID: JG Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20161016-57327.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Oct-2016 22:56:04 Calib Date: 06-Oct-2016 06:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK014

First Level Reviewer: gentilej Date: 16-Oct-2016 22:56:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.528	5.528	0.000	99	111369	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.527	8.527	0.000	84	455301	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.906	10.906	0.000	93	267161	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.932	4.932	0.000	94	162984	25.0	25.8	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.242	5.242	0.000	0	184489	25.0	26.9	
$ 6 Toluene-d8 (Surr)	98	7.043	7.043	0.000	93	557305	25.0	25.1	
$ 7 4-Bromofluorobenzene (Surr	174	9.774	9.774	0.000	97	207657	25.0	25.6	
11 Dichlorodifluoromethane	85	1.379	1.379	0.000	99	168462	25.0	29.2	
13 Chloromethane	50	1.525	1.525	0.000	100	185488	25.0	22.6	
14 Vinyl chloride	62	1.640	1.640	0.000	98	171087	25.0	25.4	
144 Butadiene	54	1.659	1.659	0.000	97	188546	25.0	28.1	
15 Bromomethane	94	1.932	1.932	0.000	90	112585	25.0	23.8	
16 Chloroethane	64	2.042	2.042	0.000	98	106002	25.0	25.5	
17 Dichlorofluoromethane	67	2.261	2.261	0.000	99	245299	25.0	24.2	
18 Trichlorofluoromethane	101	2.285	2.285	0.000	97	233071	25.0	29.6	
19 Ethyl ether	59	2.559	2.559	0.000	94	131867	25.0	22.1	
20 Acrolein	56	2.717	2.717	0.000	97	99397	125.0	87.2	
22 1,1-Dichloroethene	96	2.778	2.778	0.000	97	134840	25.0	22.7	
21 1,1,2-Trichloro-1,2,2-trif	101	2.790	2.790	0.000	87	143718	25.0	24.8	
23 Acetone	43	2.869	2.869	0.000	99	228891	125.0	91.1	
24 Iodomethane	142	2.924	2.924	0.000	98	283142	25.0	25.2	
25 Carbon disulfide	76	2.973	2.973	0.000	100	389900	25.0	20.6	
27 3-Chloro-1-propene	41	3.137	3.137	0.000	85	232524	25.0	20.4	
28 Methyl acetate	43	3.174	3.174	0.000	99	657982	125.0	103.4	
30 Methylene Chloride	84	3.277	3.277	0.000	95	153236	25.0	22.0	
31 2-Methyl-2-propanol	59	3.423	3.423	0.000	96	189853	250.0	192.4	
32 Methyl tert-butyl ether	73	3.502	3.502	0.000	98	459723	25.0	21.9	
33 trans-1,2-Dichloroethene	96	3.514	3.514	0.000	98	158370	25.0	23.3	
34 Acrylonitrile	53	3.532	3.532	0.000	99	647993	250.0	205.0	
35 Hexane	57	3.733	3.733	0.000	94	214155	25.0	24.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.922	3.922	0.000	97	260112	25.0	22.6	
39 Vinyl acetate	43	3.977	3.977	0.000	98	716463	50.0	51.5	
42 2,2-Dichloropropane	77	4.445	4.445	0.000	93	170754	25.0	26.6	
43 cis-1,2-Dichloroethene	96	4.469	4.469	0.000	85	167032	25.0	21.6	
44 2-Butanone (MEK)	43	4.494	4.494	0.000	99	383999	125.0	110.3	
47 Chlorobromomethane	128	4.707	4.707	0.000	89	98489	25.0	25.2	
49 Tetrahydrofuran	42	4.737	4.737	0.000	88	111353	50.0	46.7	
50 Chloroform	83	4.780	4.780	0.000	98	267880	25.0	22.9	
51 1,1,1-Trichloroethane	97	4.913	4.913	0.000	97	237247	25.0	25.6	
52 Cyclohexane	56	4.938	4.938	0.000	96	253702	25.0	24.8	
53 Carbon tetrachloride	117	5.059	5.059	0.000	98	219328	25.0	26.0	
54 1,1-Dichloropropene	75	5.066	5.066	0.000	90	194718	25.0	24.8	
56 Isobutyl alcohol	43	5.242	5.242	0.000	92	195321	625.0	497.0	
55 Benzene	78	5.260	5.260	0.000	98	577428	25.0	23.8	
57 1,2-Dichloroethane	62	5.315	5.315	0.000	97	219487	25.0	24.4	
59 n-Heptane	43	5.473	5.473	0.000	94	216801	25.0	27.4	
60 Trichloroethene	95	5.875	5.875	0.000	93	159395	25.0	25.7	
62 Methylcyclohexane	83	6.021	6.021	0.000	92	261828	25.0	23.9	
63 1,2-Dichloropropane	63	6.100	6.100	0.000	85	128971	25.0	22.9	
64 Dibromomethane	93	6.234	6.234	0.000	90	96573	25.0	24.4	
66 1,4-Dioxane	88	6.246	6.246	0.000	52	35851	500.0	502.0	
67 Dichlorobromomethane	83	6.386	6.386	0.000	98	192567	25.0	25.2	
69 2-Chloroethyl vinyl ether	63	6.665	6.665	0.000	95	82350	25.0	22.9	
71 cis-1,3-Dichloropropene	75	6.805	6.805	0.000	90	209924	25.0	22.7	
72 4-Methyl-2-pentanone (MIBK	58	6.951	6.951	0.000	98	289945	125.0	106.1	
73 Toluene	92	7.110	7.110	0.000	97	361690	25.0	22.9	
75 trans-1,3-Dichloropropene	75	7.371	7.371	0.000	98	195237	25.0	23.2	
77 Ethyl methacrylate	69	7.426	7.426	0.000	90	159029	25.0	22.2	
78 1,1,2-Trichloroethane	83	7.560	7.560	0.000	94	104144	25.0	22.9	
79 Tetrachloroethene	166	7.651	7.651	0.000	98	195856	25.0	27.0	
80 1,3-Dichloropropane	76	7.718	7.718	0.000	95	207284	25.0	23.0	
82 2-Hexanone	43	7.791	7.791	0.000	97	506638	125.0	111.4	
83 Chlorodibromomethane	129	7.961	7.961	0.000	90	160972	25.0	24.6	
84 Ethylene Dibromide	107	8.065	8.065	0.000	99	141601	25.0	23.0	
85 Chlorobenzene	112	8.557	8.557	0.000	97	426773	25.0	23.7	
89 1,1,1,2-Tetrachloroethane	131	8.649	8.649	0.000	92	167080	25.0	25.4	
88 Ethylbenzene	91	8.655	8.655	0.000	98	666657	25.0	23.5	
90 m-Xylene & p-Xylene	106	8.776	8.776	0.000	0	288111	25.0	24.2	
91 o-Xylene	106	9.202	9.202	0.000	96	287315	25.0	23.6	
92 Styrene	104	9.227	9.227	0.000	96	449914	25.0	22.7	
93 Bromoform	173	9.458	9.458	0.000	96	95254	25.0	23.4	
95 Isopropylbenzene	105	9.586	9.586	0.000	95	707807	25.0	23.6	
97 Bromobenzene	156	9.920	9.920	0.000	88	208901	25.0	23.5	
98 1,1,2,2-Tetrachloroethane	83	9.957	9.957	0.000	97	165439	25.0	19.6	
99 1,2,3-Trichloropropane	110	9.993	9.993	0.000	89	59644	25.0	21.5	
101 trans-1,4-Dichloro-2-buten	53	10.005	10.005	0.000	78	57231	25.0	21.0	
100 N-Propylbenzene	91	10.011	10.011	0.000	98	786834	25.0	22.5	
102 2-Chlorotoluene	126	10.109	10.109	0.000	98	189761	25.0	24.0	
104 1,3,5-Trimethylbenzene	105	10.188	10.188	0.000	95	585741	25.0	23.3	
105 4-Chlorotoluene	91	10.218	10.218	0.000	97	558413	25.0	22.9	
106 tert-Butylbenzene	134	10.510	10.510	0.000	91	148830	25.0	24.2	
108 1,2,4-Trimethylbenzene	105	10.559	10.559	0.000	96	607471	25.0	23.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.717	10.717	0.000	94	758103	25.0	23.2	
110 1,3-Dichlorobenzene	146	10.845	10.845	0.000	98	410063	25.0	23.8	
111 4-Isopropyltoluene	119	10.857	10.857	0.000	97	697607	25.0	24.0	
113 1,4-Dichlorobenzene	146	10.930	10.930	0.000	97	415156	25.0	24.3	
115 n-Butylbenzene	91	11.240	11.240	0.000	96	546032	25.0	22.2	
116 1,2-Dichlorobenzene	146	11.277	11.277	0.000	99	386254	25.0	23.6	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	87	28687	25.0	19.0	
119 1,2,4-Trichlorobenzene	180	12.688	12.688	0.000	94	220347	25.0	23.6	
120 Hexachlorobutadiene	225	12.810	12.810	0.000	97	100040	25.0	24.4	
121 Naphthalene	128	12.895	12.895	0.000	97	542569	25.0	20.6	
122 1,2,3-Trichlorobenzene	180	13.102	13.102	0.000	95	188358	25.0	21.9	

Reagents:

GAS CORP mix_00183	Amount Added: 12.50	Units: uL	
8260 CORP mix_00083	Amount Added: 12.50	Units: uL	
N_8260_Surr_00211	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00038	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 16-Oct-2016 22:56:04 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161016-57327.b\N8941.D

Injection Date: 16-Oct-2016 19:49:30 Instrument ID: HP5973N Operator ID: JG

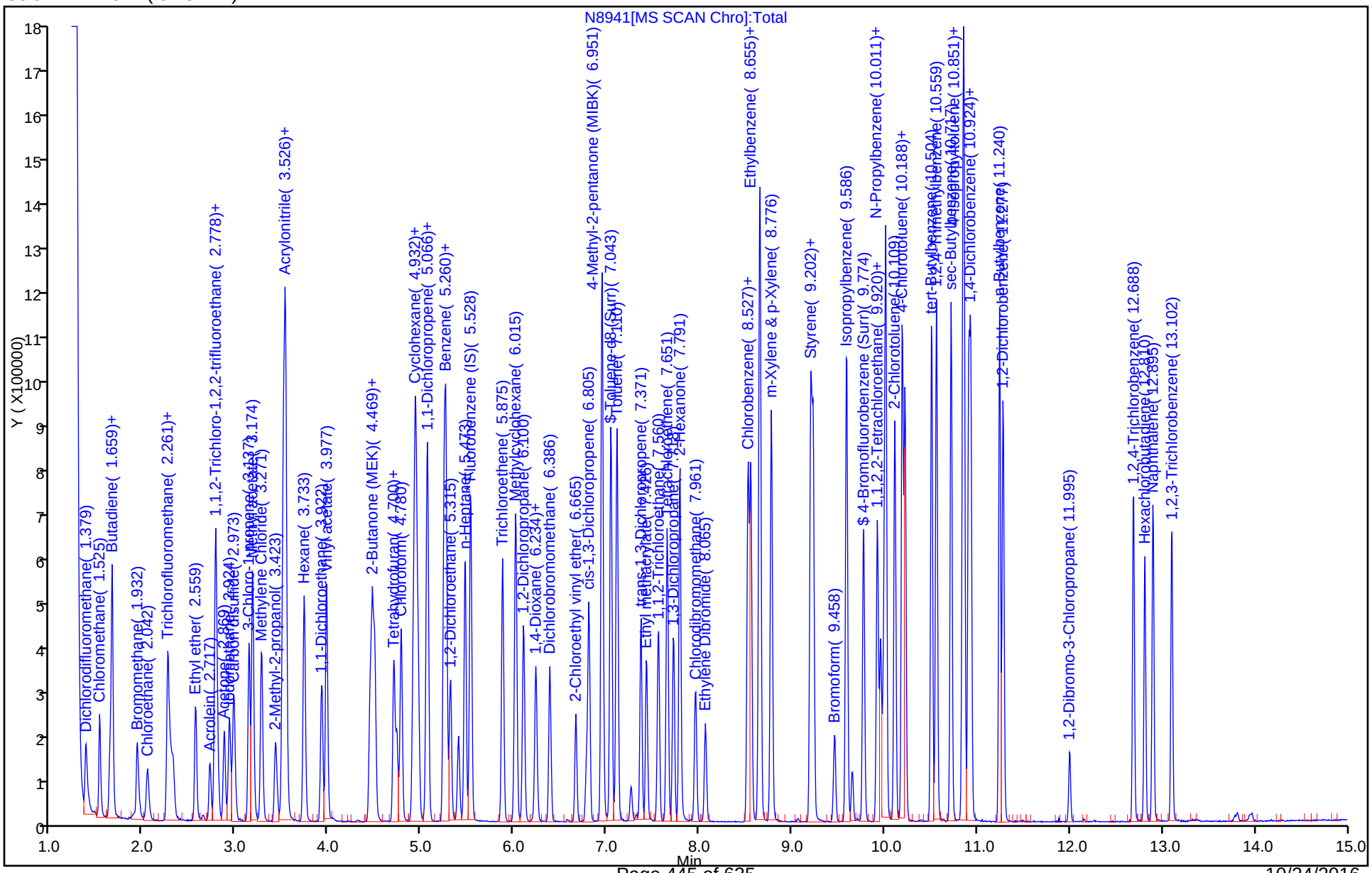
Lims ID: CCVIS Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 5

Method: N-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Lab Sample ID: CCVIS 480-325955/3 Calibration Date: 10/17/2016 08:33

Instrument ID: HP5973N Calib Start Date: 10/05/2016 22:54

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 10/06/2016 02:01

Lab File ID: N8968.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	1.296	1.587	0.1000	30.6	25.0	22.5	50.0
Chloromethane	Ave	1.839	1.722	0.1000	23.4	25.0	-6.4	20.0
Vinyl chloride	Ave	1.514	1.619	0.1000	26.7	25.0	7.0	20.0
Butadiene	Ave	1.508	1.837		30.5	25.0	21.8*	20.0
Bromomethane	Ave	1.064	1.092	0.1000	25.7	25.0	2.7	50.0
Chloroethane	Ave	0.9344	0.9765	0.1000	26.1	25.0	4.5	50.0
Dichlorofluoromethane	Ave	2.272	2.366		26.0	25.0	4.1	20.0
Trichlorofluoromethane	Ave	1.765	2.304	0.1000	32.6	25.0	30.5*	20.0
Ethyl ether	Ave	1.342	1.215		22.6	25.0	-9.5	20.0
Acrolein	Lin1		0.2041		100	125	-19.8	50.0
1,1-Dichloroethene	Ave	1.333	1.275	0.1000	23.9	25.0	-4.3	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.301	1.387	0.1000	26.7	25.0	6.6	20.0
Acetone	Ave	0.5640	0.6987	0.1000	155	125	23.9	50.0
Iodomethane	Ave	2.523	2.655		26.3	25.0	5.2	20.0
Carbon disulfide	Ave	4.241	3.664	0.1000	21.6	25.0	-13.6	20.0
Allyl chloride	Ave	2.558	2.191		21.4	25.0	-14.3	20.0
Methyl acetate	Ave	1.429	1.195	0.1000	105	125	-16.3	50.0
Methylene Chloride	Lin1		1.436	0.1000	23.0	25.0	-7.8	20.0
2-Methyl-2-propanol	Ave	0.2215	0.1820		205	250	-17.8	50.0
Methyl tert-butyl ether	Ave	4.707	4.236	0.1000	22.5	25.0	-10.0	20.0
trans-1,2-Dichloroethene	Ave	1.527	1.453	0.1000	23.8	25.0	-4.8	20.0
Acrylonitrile	Ave	0.7097	0.6053		213	250	-14.7	20.0
Hexane	Ave	1.944	1.979		25.4	25.0	1.8	20.0
1,1-Dichloroethane	Ave	2.579	2.372	0.2000	23.0	25.0	-8.0	20.0
Vinyl acetate	Ave	3.122	3.175		50.8	50.0	1.7	20.0
2,2-Dichloropropane	Ave	1.440	1.615		28.0	25.0	12.1	20.0
cis-1,2-Dichloroethene	Ave	1.738	1.615	0.1000	23.2	25.0	-7.1	20.0
2-Butanone (MEK)	Ave	0.7815	0.8215	0.1000	131	125	5.1	20.0
Chlorobromomethane	Ave	0.8781	0.9188		26.2	25.0	4.6	20.0
Tetrahydrofuran	Lin1		0.5053		47.2	50.0	-5.5	20.0
Chloroform	Ave	2.626	2.519	0.2000	24.0	25.0	-4.0	20.0
1,1,1-Trichloroethane	Ave	2.084	2.238	0.1000	26.8	25.0	7.4	20.0
Cyclohexane	Ave	2.299	2.395	0.1000	26.0	25.0	4.2	20.0
Carbon tetrachloride	Ave	1.890	2.078	0.1000	27.5	25.0	9.9	20.0
1,1-Dichloropropene	Ave	1.759	1.820		25.9	25.0	3.4	20.0
Isobutyl alcohol	Ave	0.0882	0.0755		535	625	-14.4	50.0
Benzene	Ave	5.449	5.309	0.5000	24.4	25.0	-2.6	20.0
1,2-Dichloroethane	Ave	2.018	1.995	0.1000	24.7	25.0	-1.1	20.0
n-Heptane	Lin1		2.018		28.5	25.0	13.9	20.0
Trichloroethene	Ave	1.394	1.487	0.2000	26.7	25.0	6.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Lab Sample ID: CCVIS 480-325955/3 Calibration Date: 10/17/2016 08:33

Instrument ID: HP5973N Calib Start Date: 10/05/2016 22:54

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 10/06/2016 02:01

Lab File ID: N8968.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	2.459	2.432	0.1000	24.7	25.0	-1.1	20.0
1,2-Dichloropropane	Ave	1.265	1.195	0.1000	23.6	25.0	-5.5	20.0
Dibromomethane	Ave	0.8889	0.8781	0.1000	24.7	25.0	-1.2	20.0
1,4-Dioxane	Ave	0.0039	0.0041		520	500	4.0	50.0
Bromodichloromethane	Ave	1.713	1.678	0.2000	24.5	25.0	-2.1	20.0
2-Chloroethyl vinyl ether	Ave	0.8082	0.7573		23.4	25.0	-6.3	20.0
cis-1,3-Dichloropropene	Ave	2.080	1.906	0.2000	22.9	25.0	-8.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1500	0.1251	0.1000	104	125	-16.6	20.0
Toluene	Ave	0.8667	0.8281	0.4000	23.9	25.0	-4.5	20.0
trans-1,3-Dichloropropene	Ave	0.4612	0.4020	0.1000	21.8	25.0	-12.8	20.0
Ethyl methacrylate	Ave	0.3940	0.3247		20.6	25.0	-17.6	20.0
1,1,2-Trichloroethane	Ave	0.2496	0.2125	0.1000	21.3	25.0	-14.9	20.0
Tetrachloroethene	Ave	0.3990	0.4185	0.2000	26.2	25.0	4.9	20.0
1,3-Dichloropropane	Ave	0.4958	0.4349		21.9	25.0	-12.3	20.0
2-Hexanone	Ave	0.2497	0.2372	0.1000	119	125	-5.0	20.0
Dibromochloromethane	Ave	0.3600	0.3402	0.1000	23.6	25.0	-5.5	20.0
1,2-Dibromoethane	Ave	0.3381	0.3102		22.9	25.0	-8.3	20.0
Chlorobenzene	Ave	0.9882	0.9084	0.5000	23.0	25.0	-8.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3606	0.3692		25.6	25.0	2.4	20.0
Ethylbenzene	Ave	1.558	1.444	0.1000	23.2	25.0	-7.3	20.0
m,p-Xylene	Ave	0.6537	0.6209	0.1000	23.7	25.0	-5.0	20.0
o-Xylene	Ave	0.6693	0.6294	0.3000	23.5	25.0	-6.0	20.0
Styrene	Ave	1.087	0.9671	0.3000	22.2	25.0	-11.0	20.0
Bromoform	Ave	0.2234	0.2014	0.1000	22.5	25.0	-9.9	50.0
Isopropylbenzene	Ave	2.803	2.631	0.1000	23.5	25.0	-6.1	20.0
Bromobenzene	Ave	0.8327	0.7767		23.3	25.0	-6.7	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7916	0.6144	0.3000	19.4	25.0	-22.4*	20.0
1,2,3-Trichloropropane	Ave	0.2597	0.2250		21.7	25.0	-13.4	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2545	0.1800		17.7	25.0	-29.3	50.0
N-Propylbenzene	Ave	3.279	2.906		22.2	25.0	-11.4	20.0
2-Chlorotoluene	Ave	0.7407	0.6926		23.4	25.0	-6.5	20.0
1,3,5-Trimethylbenzene	Ave	2.354	2.141		22.7	25.0	-9.1	20.0
4-Chlorotoluene	Ave	2.287	2.010		22.0	25.0	-12.1	20.0
tert-Butylbenzene	Ave	0.5758	0.5535		24.0	25.0	-3.9	20.0
1,2,4-Trimethylbenzene	Ave	2.467	2.211		22.4	25.0	-10.4	20.0
sec-Butylbenzene	Ave	3.062	2.751		22.5	25.0	-10.2	20.0
1,3-Dichlorobenzene	Ave	1.614	1.496	0.6000	23.2	25.0	-7.3	20.0
4-Isopropyltoluene	Ave	2.724	2.579		23.7	25.0	-5.3	20.0
1,4-Dichlorobenzene	Ave	1.600	1.515	0.5000	23.7	25.0	-5.3	20.0
n-Butylbenzene	Ave	2.306	2.041		22.1	25.0	-11.5	20.0
1,2-Dichlorobenzene	Ave	1.533	1.437	0.4000	23.4	25.0	-6.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Lab Sample ID: CCVIS 480-325955/3 Calibration Date: 10/17/2016 08:33

Instrument ID: HP5973N Calib Start Date: 10/05/2016 22:54

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 10/06/2016 02:01

Lab File ID: N8968.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		0.1020	0.0500	18.0	25.0	-27.8	50.0
1,2,4-Trichlorobenzene	Ave	0.8737	0.8244	0.2000	23.6	25.0	-5.6	20.0
Hexachlorobutadiene	Ave	0.3835	0.3742		24.4	25.0	-2.4	20.0
Naphthalene	Ave	2.466	1.990		20.2	25.0	-19.3	20.0
1,2,3-Trichlorobenzene	Ave	0.8039	0.7040		21.9	25.0	-12.4	20.0
Dibromofluoromethane (Surr)	Ave	1.417	1.532		27.0	25.0	8.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.540	1.709		27.7	25.0	10.9	20.0
Toluene-d8 (Surr)	Ave	1.219	1.251		25.7	25.0	2.7	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4447	0.4450		25.0	25.0	0.0	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161017-57336.b\N8968.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 17-Oct-2016 08:33:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ccvis
Misc. Info.: 480-0057336-003
Operator ID: NEA Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20161017-57336.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 17-Oct-2016 08:54:14 Calib Date: 06-Oct-2016 06:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: archern Date: 17-Oct-2016 08:54:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.528	5.528	0.000	99	104543	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.527	8.527	0.000	84	435767	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.906	10.906	0.000	92	258573	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.932	4.932	0.000	93	160145	25.0	27.0	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.242	5.242	0.000	0	178651	25.0	27.7	
$ 6 Toluene-d8 (Surr)	98	7.049	7.049	0.000	93	545350	25.0	25.7	
$ 7 4-Bromofluorobenzene (Surr	174	9.774	9.774	0.000	95	193919	25.0	25.0	
11 Dichlorodifluoromethane	85	1.379	1.379	0.000	99	165926	25.0	30.6	
13 Chloromethane	50	1.525	1.525	0.000	99	180022	25.0	23.4	
14 Vinyl chloride	62	1.640	1.640	0.000	98	169232	25.0	26.7	
144 Butadiene	54	1.659	1.659	0.000	95	192063	25.0	30.5	
15 Bromomethane	94	1.932	1.932	0.000	92	114196	25.0	25.7	
16 Chloroethane	64	2.042	2.042	0.000	98	102083	25.0	26.1	
17 Dichlorofluoromethane	67	2.261	2.261	0.000	98	247336	25.0	26.0	
18 Trichlorofluoromethane	101	2.279	2.279	0.000	95	240845	25.0	32.6	
19 Ethyl ether	59	2.565	2.565	0.000	95	127029	25.0	22.6	
20 Acrolein	56	2.717	2.717	0.000	98	106662	125.0	100.3	
22 1,1-Dichloroethene	96	2.778	2.778	0.000	98	133289	25.0	23.9	
21 1,1,2-Trichloro-1,2,2-trif	101	2.784	2.784	0.000	90	145037	25.0	26.7	
23 Acetone	43	2.869	2.869	0.000	98	365229	125.0	154.9	
24 Iodomethane	142	2.930	2.930	0.000	99	277569	25.0	26.3	
25 Carbon disulfide	76	2.973	2.973	0.000	99	383015	25.0	21.6	
27 3-Chloro-1-propene	41	3.137	3.137	0.000	85	229053	25.0	21.4	
28 Methyl acetate	43	3.180	3.180	0.000	98	624699	125.0	104.6	
30 Methylene Chloride	84	3.271	3.271	0.000	96	150133	25.0	23.0	
31 2-Methyl-2-propanol	59	3.423	3.423	0.000	98	190302	250.0	205.5	
32 Methyl tert-butyl ether	73	3.508	3.508	0.000	98	442860	25.0	22.5	
33 trans-1,2-Dichloroethene	96	3.514	3.514	0.000	96	151938	25.0	23.8	
34 Acrylonitrile	53	3.532	3.532	0.000	99	632768	250.0	213.2	
35 Hexane	57	3.733	3.733	0.000	96	206855	25.0	25.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.922	3.922	0.000	98	247931	25.0	23.0	
39 Vinyl acetate	43	3.976	3.976	0.000	98	663804	50.0	50.8	
42 2,2-Dichloropropane	77	4.445	4.445	0.000	91	168837	25.0	28.0	
43 cis-1,2-Dichloroethene	96	4.475	4.475	0.000	84	168789	25.0	23.2	
44 2-Butanone (MEK)	43	4.494	4.494	0.000	99	429396	125.0	131.4	
47 Chlorobromomethane	128	4.706	4.706	0.000	91	96056	25.0	26.2	
49 Tetrahydrofuran	42	4.737	4.737	0.000	90	105645	50.0	47.2	
50 Chloroform	83	4.779	4.779	0.000	97	263374	25.0	24.0	
51 1,1,1-Trichloroethane	97	4.913	4.913	0.000	98	233933	25.0	26.8	
52 Cyclohexane	56	4.938	4.938	0.000	94	250368	25.0	26.0	
53 Carbon tetrachloride	117	5.059	5.059	0.000	96	217255	25.0	27.5	
54 1,1-Dichloropropene	75	5.065	5.065	0.000	87	190276	25.0	25.9	
56 Isobutyl alcohol	43	5.248	5.248	0.000	90	197328	625.0	534.8	
55 Benzene	78	5.266	5.266	0.000	98	554987	25.0	24.4	
57 1,2-Dichloroethane	62	5.315	5.315	0.000	97	208566	25.0	24.7	
59 n-Heptane	43	5.473	5.473	0.000	95	211007	25.0	28.5	
60 Trichloroethene	95	5.875	5.875	0.000	94	155464	25.0	26.7	
62 Methylcyclohexane	83	6.021	6.021	0.000	92	254220	25.0	24.7	
63 1,2-Dichloropropane	63	6.106	6.106	0.000	87	124971	25.0	23.6	
64 Dibromomethane	93	6.227	6.227	0.000	89	91796	25.0	24.7	
66 1,4-Dioxane	88	6.240	6.240	0.000	44	35532	500.0	519.9	
67 Dichlorobromomethane	83	6.386	6.386	0.000	97	175419	25.0	24.5	
69 2-Chloroethyl vinyl ether	63	6.665	6.665	0.000	95	79166	25.0	23.4	
71 cis-1,3-Dichloropropene	75	6.805	6.805	0.000	90	199215	25.0	22.9	
72 4-Methyl-2-pentanone (MIBK	58	6.951	6.951	0.000	98	272486	125.0	104.2	
73 Toluene	92	7.110	7.110	0.000	98	360853	25.0	23.9	
75 trans-1,3-Dichloropropene	75	7.371	7.371	0.000	97	175171	25.0	21.8	
77 Ethyl methacrylate	69	7.426	7.426	0.000	91	141471	25.0	20.6	
78 1,1,2-Trichloroethane	83	7.554	7.554	0.000	95	92595	25.0	21.3	
79 Tetrachloroethene	166	7.651	7.651	0.000	98	182358	25.0	26.2	
80 1,3-Dichloropropane	76	7.718	7.718	0.000	94	189520	25.0	21.9	
82 2-Hexanone	43	7.791	7.791	0.000	97	516743	125.0	118.7	
83 Chlorodibromomethane	129	7.955	7.955	0.000	89	148264	25.0	23.6	
84 Ethylene Dibromide	107	8.065	8.065	0.000	97	135152	25.0	22.9	
85 Chlorobenzene	112	8.557	8.557	0.000	95	395859	25.0	23.0	
89 1,1,1,2-Tetrachloroethane	131	8.649	8.649	0.000	93	160873	25.0	25.6	
88 Ethylbenzene	91	8.655	8.655	0.000	98	629093	25.0	23.2	
90 m-Xylene & p-Xylene	106	8.776	8.776	0.000	0	270545	25.0	23.7	
91 o-Xylene	106	9.202	9.202	0.000	95	274268	25.0	23.5	
92 Styrene	104	9.227	9.227	0.000	95	421429	25.0	22.2	
93 Bromoform	173	9.458	9.458	0.000	97	87744	25.0	22.5	
95 Isopropylbenzene	105	9.586	9.586	0.000	95	680345	25.0	23.5	
97 Bromobenzene	156	9.920	9.920	0.000	88	200832	25.0	23.3	
98 1,1,2,2-Tetrachloroethane	83	9.957	9.957	0.000	96	158876	25.0	19.4	
99 1,2,3-Trichloropropane	110	9.993	9.993	0.000	89	58171	25.0	21.7	
101 trans-1,4-Dichloro-2-buten	53	10.005	10.005	0.000	76	46535	25.0	17.7	
100 N-Propylbenzene	91	10.011	10.011	0.000	98	751471	25.0	22.2	
102 2-Chlorotoluene	126	10.109	10.109	0.000	98	179092	25.0	23.4	
104 1,3,5-Trimethylbenzene	105	10.188	10.188	0.000	96	553544	25.0	22.7	
105 4-Chlorotoluene	91	10.218	10.218	0.000	96	519757	25.0	22.0	
106 tert-Butylbenzene	134	10.510	10.510	0.000	91	143115	25.0	24.0	
108 1,2,4-Trimethylbenzene	105	10.559	10.559	0.000	97	571799	25.0	22.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.717	10.717	0.000	94	711259	25.0	22.5	
110 1,3-Dichlorobenzene	146	10.845	10.845	0.000	98	386875	25.0	23.2	
111 4-Isopropyltoluene	119	10.857	10.857	0.000	97	666856	25.0	23.7	
113 1,4-Dichlorobenzene	146	10.930	10.930	0.000	96	391695	25.0	23.7	
115 n-Butylbenzene	91	11.240	11.240	0.000	97	527698	25.0	22.1	
116 1,2-Dichlorobenzene	146	11.277	11.277	0.000	98	371602	25.0	23.4	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	84	26367	25.0	18.0	
119 1,2,4-Trichlorobenzene	180	12.688	12.688	0.000	95	213179	25.0	23.6	
120 Hexachlorobutadiene	225	12.810	12.810	0.000	97	96768	25.0	24.4	
121 Naphthalene	128	12.895	12.895	0.000	96	514586	25.0	20.2	
122 1,2,3-Trichlorobenzene	180	13.102	13.102	0.000	95	182022	25.0	21.9	

Reagents:

8260 CORP mix_00083	Amount Added: 12.50	Units: uL	
GAS CORP mix_00184	Amount Added: 12.50	Units: uL	
N_8260_Surr_00211	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00038	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 17-Oct-2016 08:54:15 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161017-57336.b\N8968.D

Injection Date: 17-Oct-2016 08:33:30 Instrument ID: HP5973N Operator ID: NEA

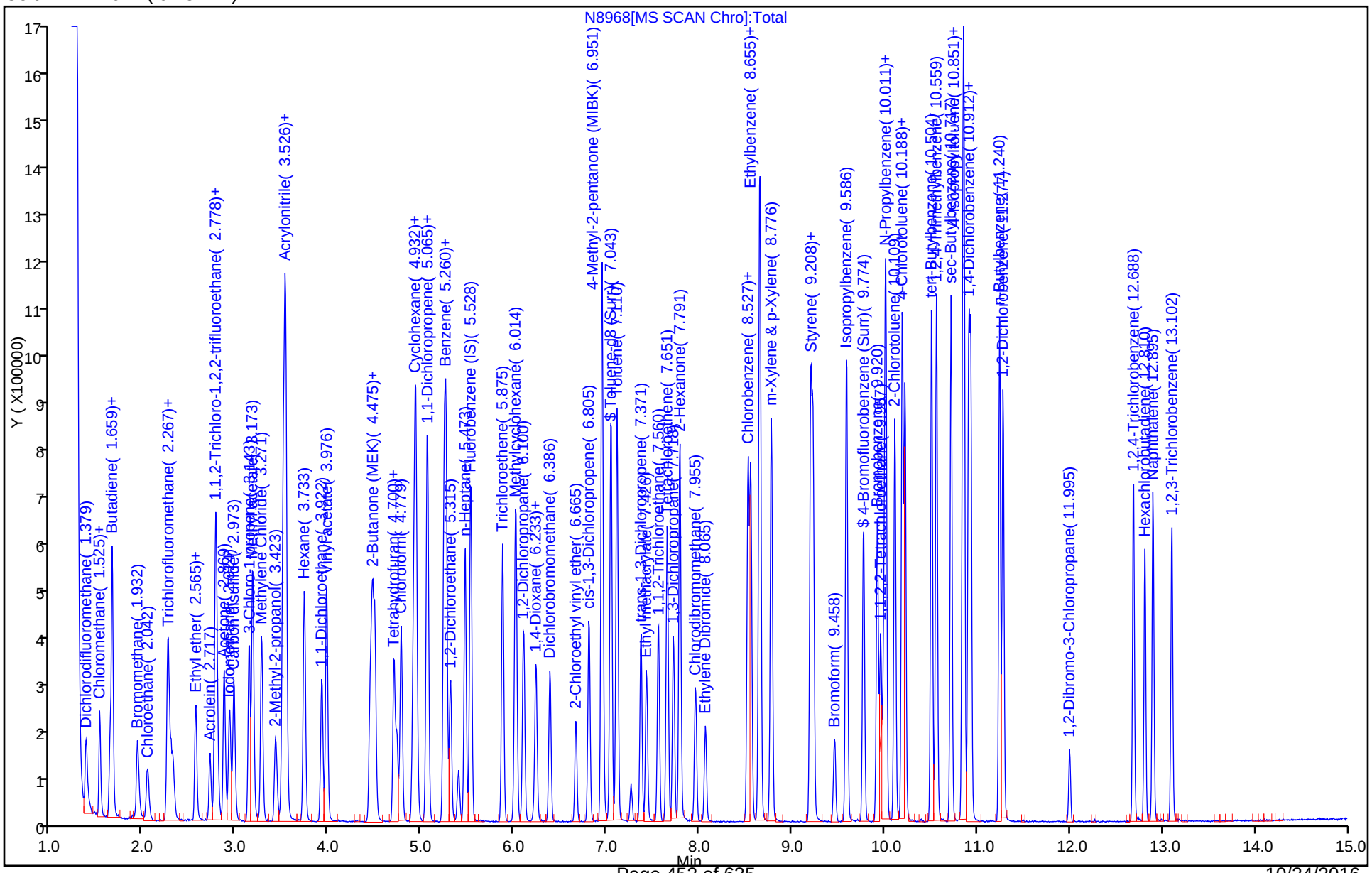
Lims ID: CCVIS Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: N-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Lab Sample ID: CCVIS 480-325584/2 Calibration Date: 10/14/2016 09:16

Instrument ID: HP5973P Calib Start Date: 09/15/2016 15:01

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 09/15/2016 17:44

Lab File ID: P1390.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	2.081	1.851	0.1000	22.2	25.0	-11.0	50.0
Chloromethane	Ave	2.178	1.834	0.1000	21.1	25.0	-15.8	20.0
Vinyl chloride	Ave	1.578	1.313	0.1000	20.8	25.0	-16.8	20.0
Butadiene	Ave	1.708	1.510		22.1	25.0	-11.6	20.0
Bromomethane	Ave	0.6783	0.8092	0.1000	29.8	25.0	19.3	50.0
Chloroethane	Ave	0.8415	0.9478	0.1000	28.2	25.0	12.6	50.0
Dichlorofluoromethane	Ave	2.759	2.950		26.7	25.0	6.9	20.0
Trichlorofluoromethane	Ave	2.917	3.009	0.1000	25.8	25.0	3.1	20.0
Ethyl ether	Ave	1.946	1.782		22.9	25.0	-8.4	20.0
Acrolein	Ave	0.4794	0.3748		97.7	125	-21.8	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.929	1.776	0.1000	23.0	25.0	-7.9	20.0
1,1-Dichloroethene	Ave	1.681	1.483	0.1000	22.0	25.0	-11.8	20.0
Acetone	Ave	1.027	1.253	0.1000	153	125	22.1	50.0
Iodomethane	Ave	3.224	3.092		24.0	25.0	-4.1	20.0
Carbon disulfide	Ave	5.676	5.731	0.1000	25.2	25.0	1.0	20.0
Methyl acetate	Ave	2.692	2.218	0.1000	103	125	-17.6	50.0
Allyl chloride	Ave	3.973	3.219		20.3	25.0	-19.0	20.0
Methylene Chloride	Lin1		1.646	0.1000	23.1	25.0	-7.7	20.0
2-Methyl-2-propanol	Ave	0.4559	0.3593		197	250	-21.2	50.0
Methyl tert-butyl ether	Ave	5.703	5.369	0.1000	23.5	25.0	-5.9	20.0
Acrylonitrile	Ave	1.279	1.032		202	250	-19.3	20.0
trans-1,2-Dichloroethene	Ave	1.763	1.601	0.1000	22.7	25.0	-9.2	20.0
Hexane	Ave	3.149	2.404		19.1	25.0	-23.6*	20.0
Vinyl acetate	Ave	5.822	5.280		45.3	50.0	-9.3	20.0
1,1-Dichloroethane	Ave	3.719	3.236	0.2000	21.8	25.0	-13.0	20.0
2-Butanone (MEK)	Ave	1.820	1.641	0.1000	113	125	-9.8	20.0
cis-1,2-Dichloroethene	Ave	1.931	1.759	0.1000	22.8	25.0	-8.9	20.0
2,2-Dichloropropane	Ave	2.555	2.565		25.1	25.0	0.4	20.0
Chlorobromomethane	Ave	0.997	0.9683		24.3	25.0	-2.9	20.0
Tetrahydrofuran	Ave	1.260	0.9426		37.4	50.0	-25.2*	20.0
Chloroform	Ave	2.995	2.841	0.2000	23.7	25.0	-5.1	20.0
1,1,1-Trichloroethane	Ave	2.697	2.621	0.1000	24.3	25.0	-2.8	20.0
Cyclohexane	Ave	4.196	3.376	0.1000	20.1	25.0	-19.5	20.0
Isobutyl alcohol	Ave	0.2046	0.1413		432	625	-30.9	50.0
1,1-Dichloropropene	Ave	2.352	2.110		22.4	25.0	-10.3	20.0
Carbon tetrachloride	Ave	2.524	2.591	0.1000	25.7	25.0	2.6	20.0
Benzene	Ave	6.811	5.966	0.5000	21.9	25.0	-12.4	20.0
1,2-Dichloroethane	Ave	2.818	2.844	0.1000	25.2	25.0	0.9	20.0
n-Heptane	Ave	3.322	2.350		17.7	25.0	-29.3*	20.0
Trichloroethene	Ave	1.843	1.635	0.2000	22.2	25.0	-11.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Lab Sample ID: CCVIS 480-325584/2 Calibration Date: 10/14/2016 09:16

Instrument ID: HP5973P Calib Start Date: 09/15/2016 15:01

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 09/15/2016 17:44

Lab File ID: P1390.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	3.014	2.327	0.1000	19.3	25.0	-22.8*	20.0
1,2-Dichloropropane	Ave	1.988	1.719	0.1000	21.6	25.0	-13.6	20.0
1,4-Dioxane	Ave	0.0136	0.0127		465	500	-7.0	50.0
Dibromomethane	Ave	1.218	1.174	0.1000	24.1	25.0	-3.6	20.0
Bromodichloromethane	Ave	2.184	2.134	0.2000	24.4	25.0	-2.3	20.0
2-Chloroethyl vinyl ether	Ave	1.589	1.282		20.2	25.0	-19.3	20.0
cis-1,3-Dichloropropene	Ave	2.823	2.578	0.2000	22.8	25.0	-8.7	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.772	1.461	0.1000	103	125	-17.5	20.0
Toluene	Ave	2.185	1.897	0.4000	21.7	25.0	-13.2	20.0
Ethyl methacrylate	Ave	1.281	1.046		20.4	25.0	-18.3	20.0
trans-1,3-Dichloropropene	Ave	1.298	1.253	0.1000	24.1	25.0	-3.5	20.0
1,1,2-Trichloroethane	Ave	0.6794	0.6203	0.1000	22.8	25.0	-8.7	20.0
Tetrachloroethene	Ave	0.9430	0.9023	0.2000	23.9	25.0	-4.3	20.0
2-Hexanone	Ave	1.218	1.085	0.1000	111	125	-10.9	20.0
1,3-Dichloropropane	Ave	1.321	1.258		23.8	25.0	-4.8	20.0
Dibromochloromethane	Ave	0.9272	0.9267	0.1000	25.0	25.0	-0.0	20.0
1,2-Dibromoethane	Ave	0.9355	0.8573		22.9	25.0	-8.4	20.0
Chlorobenzene	Ave	2.437	2.281	0.5000	23.4	25.0	-6.4	20.0
Ethylbenzene	Ave	3.961	3.585	0.1000	22.6	25.0	-9.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.9139	0.9007		24.6	25.0	-1.4	20.0
m,p-Xylene	Ave	1.693	1.463	0.1000	21.6	25.0	-13.6	20.0
o-Xylene	Ave	1.679	1.513	0.3000	22.5	25.0	-9.9	20.0
Styrene	Ave	2.658	2.367	0.3000	22.3	25.0	-10.9	20.0
Bromoform	Ave	0.6221	0.6045	0.1000	24.3	25.0	-2.8	50.0
Isopropylbenzene	Ave	4.024	3.287	0.1000	20.4	25.0	-18.3	20.0
1,1,2,2-Tetrachloroethane	Ave	1.213	1.001	0.3000	20.6	25.0	-17.5	20.0
trans-1,4-Dichloro-2-butene	Ave	0.5423	0.4097		18.9	25.0	-24.4	50.0
1,2,3-Trichloropropane	Ave	0.3731	0.3307		22.2	25.0	-11.4	20.0
Bromobenzene	Ave	0.9904	0.8948		22.6	25.0	-9.7	20.0
N-Propylbenzene	Ave	4.506	3.732		20.7	25.0	-17.2	20.0
2-Chlorotoluene	Ave	0.9707	0.8278		21.3	25.0	-14.7	20.0
1,3,5-Trimethylbenzene	Ave	3.321	2.811		21.2	25.0	-15.4	20.0
4-Chlorotoluene	Ave	1.016	0.8839		21.7	25.0	-13.0	20.0
tert-Butylbenzene	Ave	0.7591	0.6185		20.4	25.0	-18.5	20.0
1,2,4-Trimethylbenzene	Ave	3.531	3.000		21.2	25.0	-15.1	20.0
sec-Butylbenzene	Ave	4.347	3.458		19.9	25.0	-20.4*	20.0
4-Isopropyltoluene	Ave	3.821	3.118		20.4	25.0	-18.4	20.0
1,3-Dichlorobenzene	Ave	2.046	1.822	0.6000	22.3	25.0	-10.9	20.0
1,4-Dichlorobenzene	Ave	2.045	1.848	0.5000	22.6	25.0	-9.6	20.0
n-Butylbenzene	Ave	3.295	2.611		19.8	25.0	-20.7*	20.0
1,2-Dichlorobenzene	Ave	2.054	1.845	0.4000	22.5	25.0	-10.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Lab Sample ID: CCVIS 480-325584/2 Calibration Date: 10/14/2016 09:16

Instrument ID: HP5973P Calib Start Date: 09/15/2016 15:01

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 09/15/2016 17:44

Lab File ID: P1390.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	Ave	0.3258	0.2518	0.0500	19.3	25.0	-22.7	50.0
1,2,4-Trichlorobenzene	Ave	1.532	1.320	0.2000	21.5	25.0	-13.8	20.0
Hexachlorobutadiene	Ave	0.5740	0.4462		19.4	25.0	-22.3*	20.0
Naphthalene	Ave	5.118	4.178		20.4	25.0	-18.4	20.0
1,2,3-Trichlorobenzene	Ave	1.524	1.253		20.6	25.0	-17.8	20.0
Dibromofluoromethane (Surr)	Ave	1.232	1.280		26.0	25.0	3.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.8013	0.8291		25.9	25.0	3.5	20.0
Toluene-d8 (Surr)	Ave	2.220	2.164		24.4	25.0	-2.5	20.0
4-Bromofluorobenzene (Surr)	Ave	0.7606	0.7812		25.7	25.0	2.7	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1390.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 14-Oct-2016 09:16:30 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0057262-002
Operator ID: RF Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub11

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Oct-2016 09:37:26 Calib Date: 15-Sep-2016 21:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: farrellr Date: 14-Oct-2016 09:37:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.815	9.815	0.000	98	118471	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.757	13.757	0.000	85	238258	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.750	16.750	0.000	96	273513	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.012	9.012	0.000	94	151665	25.0	26.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.444	9.444	0.000	0	98227	25.0	25.9	
$ 5 Toluene-d8 (Surr)	98	11.792	11.792	0.000	93	515652	25.0	24.4	
$ 6 4-Bromofluorobenzene (Surr	174	15.272	15.272	0.000	89	186134	25.0	25.7	
10 Dichlorodifluoromethane	85	3.981	3.981	0.000	99	219264	25.0	22.2	
11 Chloromethane	50	4.316	4.316	0.000	99	217322	25.0	21.1	
17 Vinyl chloride	62	4.529	4.529	0.000	98	155574	25.0	20.8	
144 Butadiene	54	4.547	4.547	0.000	95	178905	25.0	22.1	
12 Bromomethane	94	5.082	5.082	0.000	93	95867	25.0	29.8	
13 Chloroethane	64	5.204	5.204	0.000	97	112290	25.0	28.2	
19 Dichlorofluoromethane	67	5.496	5.496	0.000	98	349478	25.0	26.7	
14 Trichlorofluoromethane	101	5.605	5.605	0.000	98	356449	25.0	25.8	
20 Ethyl ether	59	5.897	5.897	0.000	98	211107	25.0	22.9	
22 Acrolein	56	6.147	6.147	0.000	99	221994	125.0	97.7	
16 1,1,2-Trichloro-1,2,2-trif	101	6.244	6.244	0.000	94	210422	25.0	23.0	
25 1,1-Dichloroethene	96	6.287	6.287	0.000	93	175638	25.0	22.0	
24 Acetone	43	6.323	6.323	0.000	99	742344	125.0	152.6	
18 Iodomethane	142	6.554	6.554	0.000	100	366329	25.0	24.0	
27 Carbon disulfide	76	6.664	6.664	0.000	100	678967	25.0	25.2	
30 Methyl acetate	43	6.700	6.700	0.000	100	1313886	125.0	103.0	
28 3-Chloro-1-propene	41	6.731	6.731	0.000	81	381385	25.0	20.3	
31 Methylene Chloride	84	6.907	6.907	0.000	94	194993	25.0	23.1	
33 2-Methyl-2-propanol	59	6.925	6.925	0.000	98	425642	250.0	197.0	
32 Methyl tert-butyl ether	73	7.163	7.163	0.000	99	636065	25.0	23.5	
34 Acrylonitrile	53	7.193	7.193	0.000	97	1222890	250.0	201.7	
35 trans-1,2-Dichloroethene	96	7.230	7.230	0.000	94	189620	25.0	22.7	
36 Hexane	57	7.461	7.461	0.000	95	284850	25.0	19.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
38 Vinyl acetate	43	7.698	7.698	0.000	97	1251056	50.0	45.3	
40 1,1-Dichloroethane	63	7.753	7.753	0.000	97	383370	25.0	21.8	
44 2-Butanone (MEK)	43	8.398	8.398	0.000	98	972287	125.0	112.8	
43 cis-1,2-Dichloroethene	96	8.452	8.452	0.000	86	208443	25.0	22.8	
45 2,2-Dichloropropane	77	8.459	8.459	0.000	65	303867	25.0	25.1	
50 Chlorobromomethane	128	8.763	8.763	0.000	94	114716	25.0	24.3	
51 Tetrahydrofuran	42	8.793	8.793	0.000	93	223346	50.0	37.4	
49 Chloroform	83	8.805	8.805	0.000	94	336560	25.0	23.7	
52 1,1,1-Trichloroethane	97	9.067	9.067	0.000	98	310564	25.0	24.3	
54 Cyclohexane	56	9.134	9.134	0.000	94	399923	25.0	20.1	
53 Isobutyl alcohol	43	9.213	9.213	0.000	96	418566	625.0	431.6	
56 1,1-Dichloropropene	75	9.237	9.237	0.000	91	250001	25.0	22.4	
55 Carbon tetrachloride	117	9.268	9.268	0.000	96	306899	25.0	25.7	
57 Benzene	78	9.517	9.517	0.000	98	706826	25.0	21.9	
60 1,2-Dichloroethane	62	9.541	9.541	0.000	97	336929	25.0	25.2	
59 n-Heptane	43	9.639	9.639	0.000	97	278354	25.0	17.7	
62 Trichloroethene	95	10.265	10.265	0.000	92	193731	25.0	22.2	
64 Methylcyclohexane	83	10.509	10.509	0.000	98	275697	25.0	19.3	
63 1,2-Dichloropropane	63	10.582	10.582	0.000	93	203603	25.0	21.6	
68 1,4-Dioxane	88	10.697	10.697	0.000	98	60464	500.0	465.0	
69 Dibromomethane	93	10.770	10.770	0.000	96	139039	25.0	24.1	
70 Dichlorobromomethane	83	10.904	10.904	0.000	95	252763	25.0	24.4	
71 2-Chloroethyl vinyl ether	63	11.172	11.172	0.000	92	151850	25.0	20.2	
73 cis-1,3-Dichloropropene	75	11.446	11.446	0.000	90	305459	25.0	22.8	
75 4-Methyl-2-pentanone (MIBK	43	11.555	11.555	0.000	99	1740274	125.0	103.1	
76 Toluene	92	11.884	11.884	0.000	98	452031	25.0	21.7	
77 Ethyl methacrylate	69	12.115	12.115	0.000	94	249197	25.0	20.4	
78 trans-1,3-Dichloropropene	75	12.145	12.145	0.000	94	298464	25.0	24.1	
79 1,1,2-Trichloroethane	83	12.431	12.431	0.000	95	147796	25.0	22.8	
80 Tetrachloroethene	166	12.632	12.632	0.000	95	214974	25.0	23.9	
83 2-Hexanone	43	12.638	12.638	0.000	99	1292062	125.0	111.3	
82 1,3-Dichloropropane	76	12.668	12.668	0.000	98	299699	25.0	23.8	
81 Chlorodibromomethane	129	13.009	13.009	0.000	91	220784	25.0	25.0	
85 Ethylene Dibromide	107	13.210	13.210	0.000	99	204264	25.0	22.9	
87 Chlorobenzene	112	13.800	13.800	0.000	94	543470	25.0	23.4	
89 Ethylbenzene	91	13.867	13.867	0.000	98	854227	25.0	22.6	
88 1,1,1,2-Tetrachloroethane	131	13.885	13.885	0.000	94	214606	25.0	24.6	
90 m-Xylene & p-Xylene	106	14.007	14.007	0.000	0	348652	25.0	21.6	
93 o-Xylene	106	14.560	14.560	0.000	96	360509	25.0	22.5	
94 Styrene	104	14.573	14.573	0.000	94	563923	25.0	22.3	
92 Bromoform	173	14.931	14.931	0.000	96	144027	25.0	24.3	
95 Isopropylbenzene	105	14.998	14.998	0.000	96	899142	25.0	20.4	
97 1,1,2,2-Tetrachloroethane	83	15.424	15.424	0.000	96	273838	25.0	20.6	
98 trans-1,4-Dichloro-2-buten	53	15.479	15.479	0.000	82	112069	25.0	18.9	
101 1,2,3-Trichloropropane	110	15.515	15.515	0.000	73	90447	25.0	22.2	
100 Bromobenzene	156	15.522	15.522	0.000	94	244737	25.0	22.6	
99 N-Propylbenzene	91	15.528	15.528	0.000	98	1020796	25.0	20.7	
103 2-Chlorotoluene	126	15.716	15.716	0.000	95	226415	25.0	21.3	
102 1,3,5-Trimethylbenzene	105	15.728	15.728	0.000	96	768759	25.0	21.2	
105 4-Chlorotoluene	126	15.850	15.850	0.000	98	241768	25.0	21.7	
106 tert-Butylbenzene	134	16.166	16.166	0.000	94	169171	25.0	20.4	
107 1,2,4-Trimethylbenzene	105	16.227	16.227	0.000	97	820477	25.0	21.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	16.434	16.434	0.000	94	945753	25.0	19.9	
112 4-Isopropyltoluene	119	16.592	16.592	0.000	97	852847	25.0	20.4	
110 1,3-Dichlorobenzene	146	16.677	16.677	0.000	98	498328	25.0	22.3	
111 1,4-Dichlorobenzene	146	16.781	16.781	0.000	95	505430	25.0	22.6	
115 n-Butylbenzene	91	17.103	17.103	0.000	98	714269	25.0	19.8	
116 1,2-Dichlorobenzene	146	17.268	17.268	0.000	97	504534	25.0	22.5	
117 1,2-Dibromo-3-Chloropropan	75	18.241	18.241	0.000	80	68864	25.0	19.3	
119 1,2,4-Trichlorobenzene	180	19.318	19.318	0.000	94	361111	25.0	21.5	
120 Hexachlorobutadiene	225	19.464	19.464	0.000	98	122030	25.0	19.4	
121 Naphthalene	128	19.713	19.713	0.000	97	1142863	25.0	20.4	
122 1,2,3-Trichlorobenzene	180	20.072	20.072	0.000	96	342595	25.0	20.6	

Reagents:

8260 CORP mix_00083	Amount Added: 12.50	Units: uL	
GAS CORP mix_00183	Amount Added: 12.50	Units: uL	
P 8260 IS_00173	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00197	Amount Added: 1.25	Units: uL	Run Reagent

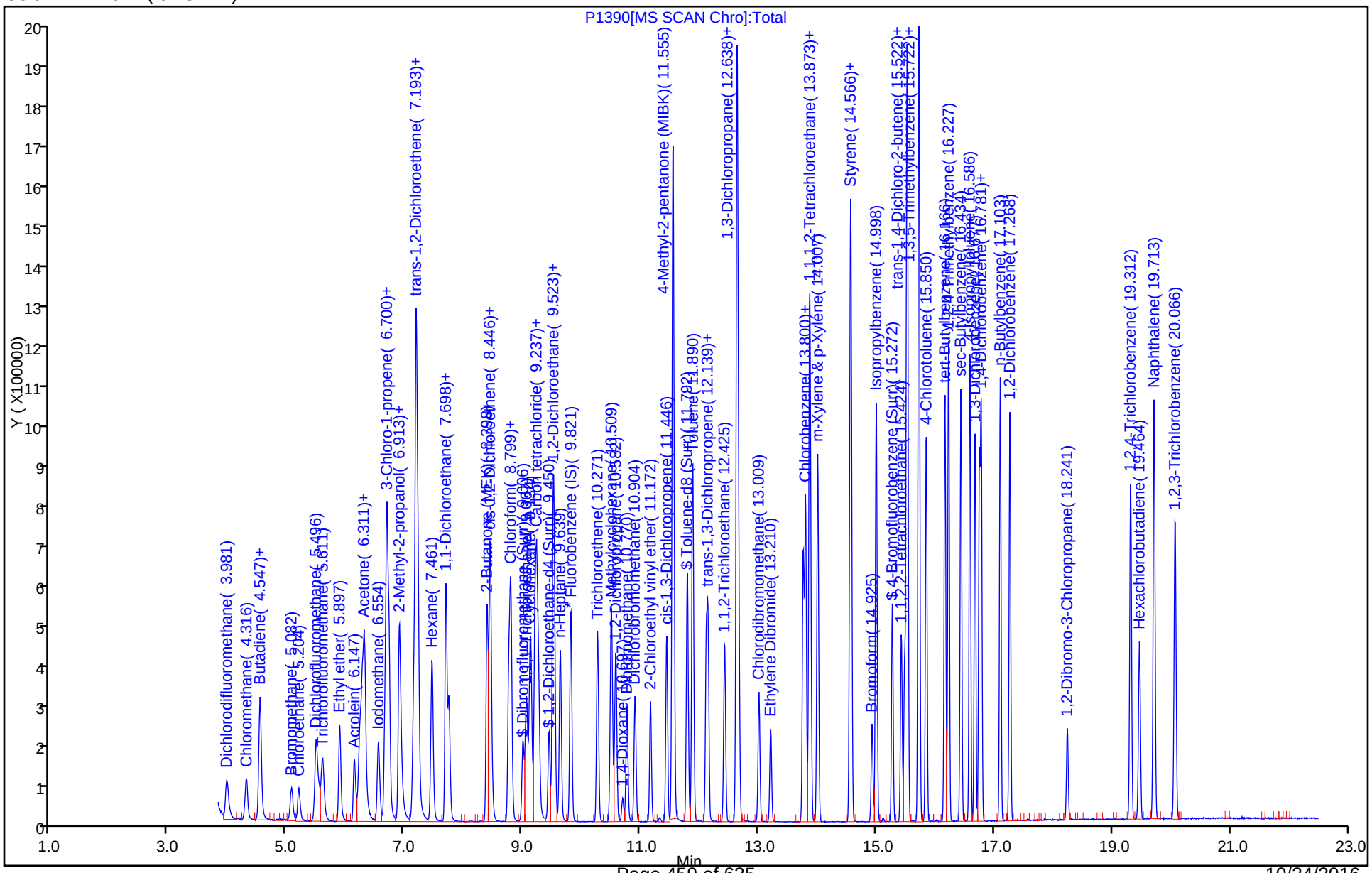
Report Date: 14-Oct-2016 09:37:27 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1390.D

Injection Date:	14-Oct-2016 09:16:30	Instrument ID:	HP5973P	Operator ID:	RF
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Lab Sample ID: CCVIS 480-325765/2 Calibration Date: 10/14/2016 21:15

Instrument ID: HP5973P Calib Start Date: 09/15/2016 15:01

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 09/15/2016 17:44

Lab File ID: P1414.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	2.081	2.037	0.1000	24.5	25.0	-2.1	50.0
Chloromethane	Ave	2.178	1.855	0.1000	21.3	25.0	-14.8	20.0
Vinyl chloride	Ave	1.578	1.362	0.1000	21.6	25.0	-13.7	20.0
Butadiene	Ave	1.708	1.641		24.0	25.0	-3.9	20.0
Bromomethane	Ave	0.6783	0.8182	0.1000	30.2	25.0	20.6	50.0
Chloroethane	Ave	0.8415	1.021	0.1000	30.3	25.0	21.3	50.0
Dichlorofluoromethane	Ave	2.759	3.113		28.2	25.0	12.8	20.0
Trichlorofluoromethane	Ave	2.917	3.317	0.1000	28.4	25.0	13.7	20.0
Ethyl ether	Ave	1.946	1.876		24.1	25.0	-3.6	20.0
Acrolein	Ave	0.4794	0.4116		107	125	-14.1	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.929	1.996	0.1000	25.9	25.0	3.4	20.0
1,1-Dichloroethene	Ave	1.681	1.634	0.1000	24.3	25.0	-2.8	20.0
Acetone	Ave	1.027	1.288	0.1000	157	125	25.5	50.0
Iodomethane	Ave	3.224	3.324		25.8	25.0	3.1	20.0
Carbon disulfide	Ave	5.676	6.388	0.1000	28.1	25.0	12.5	20.0
Methyl acetate	Ave	2.692	2.323	0.1000	108	125	-13.7	50.0
Allyl chloride	Ave	3.973	3.497		22.0	25.0	-12.0	20.0
Methylene Chloride	Lin1		1.795	0.1000	25.3	25.0	1.1	20.0
2-Methyl-2-propanol	Ave	0.4559	0.3676		202	250	-19.4	50.0
Methyl tert-butyl ether	Ave	5.703	5.580	0.1000	24.5	25.0	-2.1	20.0
Acrylonitrile	Ave	1.279	1.061		207	250	-17.1	20.0
trans-1,2-Dichloroethene	Ave	1.763	1.740	0.1000	24.7	25.0	-1.3	20.0
Hexane	Ave	3.149	2.617		20.8	25.0	-16.9	20.0
Vinyl acetate	Ave	5.822	5.431		46.6	50.0	-6.7	20.0
1,1-Dichloroethane	Ave	3.719	3.510	0.2000	23.6	25.0	-5.6	20.0
2-Butanone (MEK)	Ave	1.820	1.716	0.1000	118	125	-5.7	20.0
2,2-Dichloropropane	Ave	2.555	2.779		27.2	25.0	8.8	20.0
cis-1,2-Dichloroethene	Ave	1.931	1.876	0.1000	24.3	25.0	-2.9	20.0
Chlorobromomethane	Ave	0.997	1.017		25.5	25.0	1.9	20.0
Tetrahydrofuran	Ave	1.260	0.9803		38.9	50.0	-22.2*	20.0
Chloroform	Ave	2.995	3.065	0.2000	25.6	25.0	2.3	20.0
1,1,1-Trichloroethane	Ave	2.697	2.915	0.1000	27.0	25.0	8.1	20.0
Cyclohexane	Ave	4.196	3.686	0.1000	22.0	25.0	-12.1	20.0
Isobutyl alcohol	Ave	0.2046	0.1586		484	625	-22.5	50.0
1,1-Dichloropropene	Ave	2.352	2.324		24.7	25.0	-1.2	20.0
Carbon tetrachloride	Ave	2.524	2.940	0.1000	29.1	25.0	16.5	20.0
Benzene	Ave	6.811	6.264	0.5000	23.0	25.0	-8.0	20.0
1,2-Dichloroethane	Ave	2.818	3.049	0.1000	27.0	25.0	8.2	20.0
n-Heptane	Ave	3.322	2.524		19.0	25.0	-24.0*	20.0
Trichloroethene	Ave	1.843	1.768	0.2000	24.0	25.0	-4.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Lab Sample ID: CCVIS 480-325765/2 Calibration Date: 10/14/2016 21:15

Instrument ID: HP5973P Calib Start Date: 09/15/2016 15:01

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 09/15/2016 17:44

Lab File ID: P1414.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	3.014	2.529	0.1000	21.0	25.0	-16.1	20.0
1,2-Dichloropropane	Ave	1.988	1.780	0.1000	22.4	25.0	-10.5	20.0
1,4-Dioxane	Ave	0.0136	0.0131		478	500	-4.3	50.0
Dibromomethane	Ave	1.218	1.256	0.1000	25.8	25.0	3.1	20.0
Bromodichloromethane	Ave	2.184	2.222	0.2000	25.4	25.0	1.7	20.0
2-Chloroethyl vinyl ether	Ave	1.589	1.283		20.2	25.0	-19.2	20.0
cis-1,3-Dichloropropene	Ave	2.823	2.641	0.2000	23.4	25.0	-6.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.772	1.556	0.1000	110	125	-12.2	20.0
Toluene	Ave	2.185	2.039	0.4000	23.3	25.0	-6.7	20.0
Ethyl methacrylate	Ave	1.281	1.104		21.5	25.0	-13.8	20.0
trans-1,3-Dichloropropene	Ave	1.298	1.310	0.1000	25.2	25.0	0.9	20.0
1,1,2-Trichloroethane	Ave	0.6794	0.6447	0.1000	23.7	25.0	-5.1	20.0
Tetrachloroethene	Ave	0.9430	0.9864	0.2000	26.2	25.0	4.6	20.0
2-Hexanone	Ave	1.218	1.175	0.1000	121	125	-3.5	20.0
1,3-Dichloropropane	Ave	1.321	1.358		25.7	25.0	2.8	20.0
Dibromochloromethane	Ave	0.9272	0.9732	0.1000	26.2	25.0	5.0	20.0
1,2-Dibromoethane	Ave	0.9355	0.9281		24.8	25.0	-0.8	20.0
Chlorobenzene	Ave	2.437	2.441	0.5000	25.0	25.0	0.2	20.0
Ethylbenzene	Ave	3.961	3.884	0.1000	24.5	25.0	-1.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.9139	0.9936		27.2	25.0	8.7	20.0
m,p-Xylene	Ave	1.693	1.594	0.1000	23.5	25.0	-5.8	20.0
o-Xylene	Ave	1.679	1.582	0.3000	23.6	25.0	-5.8	20.0
Styrene	Ave	2.658	2.492	0.3000	23.4	25.0	-6.3	20.0
Bromoform	Ave	0.6221	0.6299	0.1000	25.3	25.0	1.3	50.0
Isopropylbenzene	Ave	4.024	3.489	0.1000	21.7	25.0	-13.3	20.0
1,1,2,2-Tetrachloroethane	Ave	1.213	1.048	0.3000	21.6	25.0	-13.6	20.0
trans-1,4-Dichloro-2-butene	Ave	0.5423	0.4110		18.9	25.0	-24.2	50.0
1,2,3-Trichloropropane	Ave	0.3731	0.3370		22.6	25.0	-9.7	20.0
Bromobenzene	Ave	0.9904	0.9486		23.9	25.0	-4.2	20.0
N-Propylbenzene	Ave	4.506	3.972		22.0	25.0	-11.8	20.0
2-Chlorotoluene	Ave	0.9707	0.8905		22.9	25.0	-8.3	20.0
1,3,5-Trimethylbenzene	Ave	3.321	2.977		22.4	25.0	-10.3	20.0
4-Chlorotoluene	Ave	1.016	0.9401		23.1	25.0	-7.5	20.0
tert-Butylbenzene	Ave	0.7591	0.6564		21.6	25.0	-13.5	20.0
1,2,4-Trimethylbenzene	Ave	3.531	3.137		22.2	25.0	-11.2	20.0
sec-Butylbenzene	Ave	4.347	3.702		21.3	25.0	-14.8	20.0
4-Isopropyltoluene	Ave	3.821	3.347		21.9	25.0	-12.4	20.0
1,3-Dichlorobenzene	Ave	2.046	1.911	0.6000	23.4	25.0	-6.6	20.0
1,4-Dichlorobenzene	Ave	2.045	1.939	0.5000	23.7	25.0	-5.2	20.0
n-Butylbenzene	Ave	3.295	2.792		21.2	25.0	-15.3	20.0
1,2-Dichlorobenzene	Ave	2.054	1.928	0.4000	23.5	25.0	-6.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Lab Sample ID: CCVIS 480-325765/2 Calibration Date: 10/14/2016 21:15

Instrument ID: HP5973P Calib Start Date: 09/15/2016 15:01

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 09/15/2016 17:44

Lab File ID: P1414.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	Ave	0.3258	0.2566	0.0500	19.7	25.0	-21.2	50.0
1,2,4-Trichlorobenzene	Ave	1.532	1.355	0.2000	22.1	25.0	-11.6	20.0
Hexachlorobutadiene	Ave	0.5740	0.4746		20.7	25.0	-17.3	20.0
Naphthalene	Ave	5.118	4.345		21.2	25.0	-15.1	20.0
1,2,3-Trichlorobenzene	Ave	1.524	1.296		21.3	25.0	-14.9	20.0
Dibromofluoromethane (Surr)	Ave	1.232	1.319		26.8	25.0	7.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.8013	0.8170		25.5	25.0	2.0	20.0
Toluene-d8 (Surr)	Ave	2.220	2.233		25.1	25.0	0.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.7606	0.7927		26.1	25.0	4.2	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57299.b\P1414.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 14-Oct-2016 21:15:30 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0057299-002
Operator ID: SY Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub11

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57299.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Oct-2016 21:34:34 Calib Date: 15-Sep-2016 21:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: youngmans Date: 14-Oct-2016 21:34:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.815	9.815	0.000	98	113470	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.763	13.763	0.000	85	222483	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.750	16.750	0.000	95	259199	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.006	9.006	0.000	93	149676	25.0	26.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.450	9.450	0.000	0	92707	25.0	25.5	
$ 5 Toluene-d8 (Surr)	98	11.792	11.792	0.000	93	496894	25.0	25.1	
$ 6 4-Bromofluorobenzene (Surr	174	15.272	15.272	0.000	89	176358	25.0	26.1	
10 Dichlorodifluoromethane	85	3.987	3.987	0.000	99	231135	25.0	24.5	
11 Chloromethane	50	4.322	4.322	0.000	99	210499	25.0	21.3	
17 Vinyl chloride	62	4.535	4.535	0.000	98	154577	25.0	21.6	
144 Butadiene	54	4.553	4.553	0.000	95	186227	25.0	24.0	
12 Bromomethane	94	5.094	5.094	0.000	94	92835	25.0	30.2	
13 Chloroethane	64	5.210	5.210	0.000	96	115831	25.0	30.3	
19 Dichlorofluoromethane	67	5.502	5.502	0.000	98	353284	25.0	28.2	
14 Trichlorofluoromethane	101	5.611	5.611	0.000	99	376400	25.0	28.4	
20 Ethyl ether	59	5.903	5.903	0.000	97	212889	25.0	24.1	
22 Acrolein	56	6.147	6.147	0.000	99	233532	125.0	107.3	
16 1,1,2-Trichloro-1,2,2-trif	101	6.250	6.250	0.000	93	226434	25.0	25.9	
25 1,1-Dichloroethene	96	6.293	6.293	0.000	93	185421	25.0	24.3	
24 Acetone	43	6.323	6.323	0.000	98	730746	125.0	156.8	
18 Iodomethane	142	6.554	6.554	0.000	98	377188	25.0	25.8	
27 Carbon disulfide	76	6.670	6.670	0.000	100	724814	25.0	28.1	
30 Methyl acetate	43	6.700	6.700	0.000	100	1317859	125.0	107.8	
28 3-Chloro-1-propene	41	6.737	6.737	0.000	80	396805	25.0	22.0	
31 Methylene Chloride	84	6.913	6.913	0.000	94	203673	25.0	25.3	
33 2-Methyl-2-propanol	59	6.931	6.931	0.000	98	417066	250.0	201.5	
32 Methyl tert-butyl ether	73	7.163	7.163	0.000	99	633193	25.0	24.5	
34 Acrylonitrile	53	7.199	7.199	0.000	97	1203349	250.0	207.2	
35 trans-1,2-Dichloroethene	96	7.230	7.230	0.000	93	197401	25.0	24.7	
36 Hexane	57	7.467	7.467	0.000	95	296915	25.0	20.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
38 Vinyl acetate	43	7.704	7.704	0.000	97	1232506	50.0	46.6	
40 1,1-Dichloroethane	63	7.753	7.753	0.000	97	398333	25.0	23.6	
44 2-Butanone (MEK)	43	8.398	8.398	0.000	97	973563	125.0	117.9	
43 cis-1,2-Dichloroethene	96	8.452	8.452	0.000	85	212903	25.0	24.3	
45 2,2-Dichloropropane	77	8.452	8.452	0.000	61	315349	25.0	27.2	
50 Chlorobromomethane	128	8.769	8.769	0.000	95	115377	25.0	25.5	
51 Tetrahydrofuran	42	8.793	8.793	0.000	93	222473	50.0	38.9	
49 Chloroform	83	8.805	8.805	0.000	94	347773	25.0	25.6	
52 1,1,1-Trichloroethane	97	9.067	9.067	0.000	98	330781	25.0	27.0	
54 Cyclohexane	56	9.134	9.134	0.000	95	418268	25.0	22.0	
53 Isobutyl alcohol	43	9.213	9.213	0.000	95	449819	625.0	484.3	
56 1,1-Dichloropropene	75	9.243	9.243	0.000	90	263681	25.0	24.7	
55 Carbon tetrachloride	117	9.274	9.274	0.000	96	333649	25.0	29.1	
57 Benzene	78	9.517	9.517	0.000	97	710829	25.0	23.0	
60 1,2-Dichloroethane	62	9.541	9.541	0.000	97	345978	25.0	27.0	
59 n-Heptane	43	9.645	9.645	0.000	97	286372	25.0	19.0	
62 Trichloroethene	95	10.271	10.271	0.000	93	200654	25.0	24.0	
64 Methylcyclohexane	83	10.509	10.509	0.000	97	286917	25.0	21.0	
63 1,2-Dichloropropane	63	10.582	10.582	0.000	90	202023	25.0	22.4	
68 1,4-Dioxane	88	10.697	10.697	0.000	97	58078	500.0	478.3	
69 Dibromomethane	93	10.770	10.770	0.000	96	142539	25.0	25.8	
70 Dichlorobromomethane	83	10.904	10.904	0.000	96	252142	25.0	25.4	
71 2-Chloroethyl vinyl ether	63	11.172	11.172	0.000	92	145569	25.0	20.2	
73 cis-1,3-Dichloropropene	75	11.446	11.446	0.000	91	299700	25.0	23.4	
75 4-Methyl-2-pentanone (MIBK	43	11.555	11.555	0.000	99	1730760	125.0	109.8	
76 Toluene	92	11.884	11.884	0.000	97	453710	25.0	23.3	
77 Ethyl methacrylate	69	12.115	12.115	0.000	94	245569	25.0	21.5	
78 trans-1,3-Dichloropropene	75	12.145	12.145	0.000	95	291457	25.0	25.2	
79 1,1,2-Trichloroethane	83	12.425	12.425	0.000	95	143433	25.0	23.7	
80 Tetrachloroethene	166	12.632	12.632	0.000	95	219466	25.0	26.2	
83 2-Hexanone	43	12.638	12.638	0.000	99	1307158	125.0	120.6	
82 1,3-Dichloropropane	76	12.668	12.668	0.000	98	302021	25.0	25.7	
81 Chlorodibromomethane	129	13.015	13.015	0.000	91	216510	25.0	26.2	
85 Ethylene Dibromide	107	13.210	13.210	0.000	99	206491	25.0	24.8	
87 Chlorobenzene	112	13.800	13.800	0.000	94	543019	25.0	25.0	
89 Ethylbenzene	91	13.867	13.867	0.000	98	864224	25.0	24.5	
88 1,1,1,2-Tetrachloroethane	131	13.885	13.885	0.000	94	221068	25.0	27.2	
90 m-Xylene & p-Xylene	106	14.007	14.007	0.000	0	354737	25.0	23.5	
93 o-Xylene	106	14.560	14.560	0.000	97	351929	25.0	23.6	
94 Styrene	104	14.579	14.579	0.000	95	554334	25.0	23.4	
92 Bromoform	173	14.931	14.931	0.000	96	140137	25.0	25.3	
95 Isopropylbenzene	105	14.998	14.998	0.000	96	904265	25.0	21.7	
97 1,1,2,2-Tetrachloroethane	83	15.424	15.424	0.000	97	271694	25.0	21.6	
98 trans-1,4-Dichloro-2-buten	53	15.479	15.479	0.000	79	106521	25.0	18.9	
101 1,2,3-Trichloropropane	110	15.515	15.515	0.000	64	87347	25.0	22.6	
100 Bromobenzene	156	15.522	15.522	0.000	94	245882	25.0	23.9	
99 N-Propylbenzene	91	15.534	15.534	0.000	98	1029651	25.0	22.0	
103 2-Chlorotoluene	126	15.722	15.722	0.000	95	230828	25.0	22.9	
102 1,3,5-Trimethylbenzene	105	15.728	15.728	0.000	94	771634	25.0	22.4	
105 4-Chlorotoluene	126	15.850	15.850	0.000	98	243683	25.0	23.1	
106 tert-Butylbenzene	134	16.166	16.166	0.000	94	170138	25.0	21.6	
107 1,2,4-Trimethylbenzene	105	16.227	16.227	0.000	97	813024	25.0	22.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	16.434	16.434	0.000	95	959465	25.0	21.3	
112 4-Isopropyltoluene	119	16.592	16.592	0.000	97	867481	25.0	21.9	
110 1,3-Dichlorobenzene	146	16.677	16.677	0.000	98	495445	25.0	23.4	
111 1,4-Dichlorobenzene	146	16.781	16.781	0.000	94	502574	25.0	23.7	
115 n-Butylbenzene	91	17.103	17.103	0.000	98	723628	25.0	21.2	
116 1,2-Dichlorobenzene	146	17.267	17.267	0.000	97	499791	25.0	23.5	
117 1,2-Dibromo-3-Chloropropan	75	18.241	18.241	0.000	81	66520	25.0	19.7	
119 1,2,4-Trichlorobenzene	180	19.318	19.318	0.000	94	351265	25.0	22.1	
120 Hexachlorobutadiene	225	19.470	19.470	0.000	97	123023	25.0	20.7	
121 Naphthalene	128	19.713	19.713	0.000	97	1126153	25.0	21.2	
122 1,2,3-Trichlorobenzene	180	20.072	20.072	0.000	96	335980	25.0	21.3	

Reagents:

8260 CORP mix_00083	Amount Added: 12.50	Units: uL	
GAS CORP mix_00183	Amount Added: 12.50	Units: uL	
P 8260 IS_00173	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00197	Amount Added: 1.25	Units: uL	Run Reagent

Report Date: 14-Oct-2016 21:34:35 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57299.b\P1414.D

Injection Date: 14-Oct-2016 21:15:30 Instrument ID: HP5973P Operator ID: SY

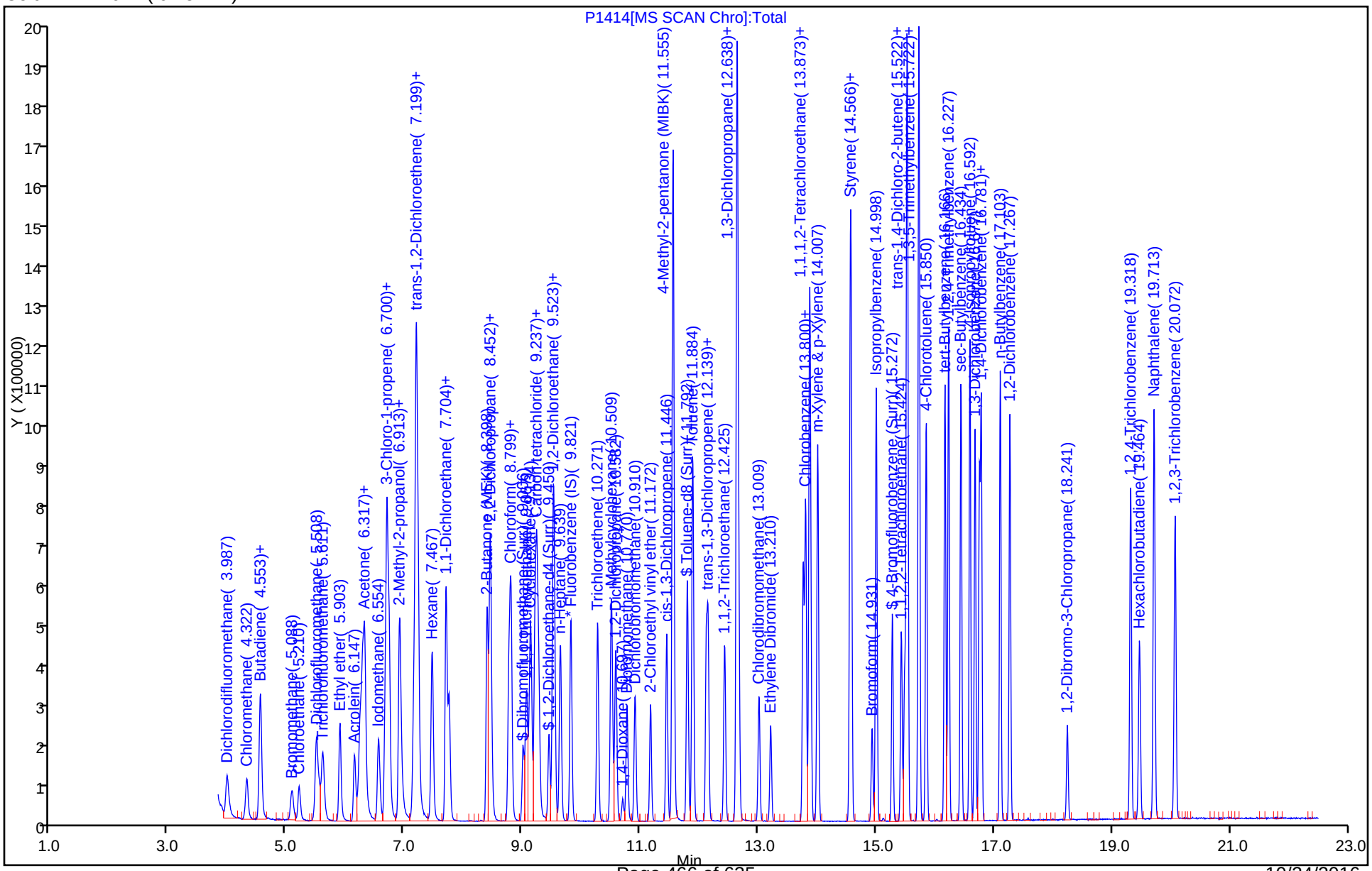
Lims ID: CCVIS Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: P-8260H2O Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8453.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	05-Oct-2016 21:59:30	ALS Bottle#:	30	Worklist Smp#:	2
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	480-0057013-002				
Operator ID:	SO	Instrument ID:	HP5973N		
Method:	\\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N-8260.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	10-Oct-2016 13:14:13	Calib Date:	06-Oct-2016 06:56:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D				
Column 1 :	ZB-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK038				
First Level Reviewer: o'briens		Date:	05-Oct-2016 23:18:28		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 4 BFB	95	4.406	4.406	0.000	94	489412	NR	NR	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Reagents:

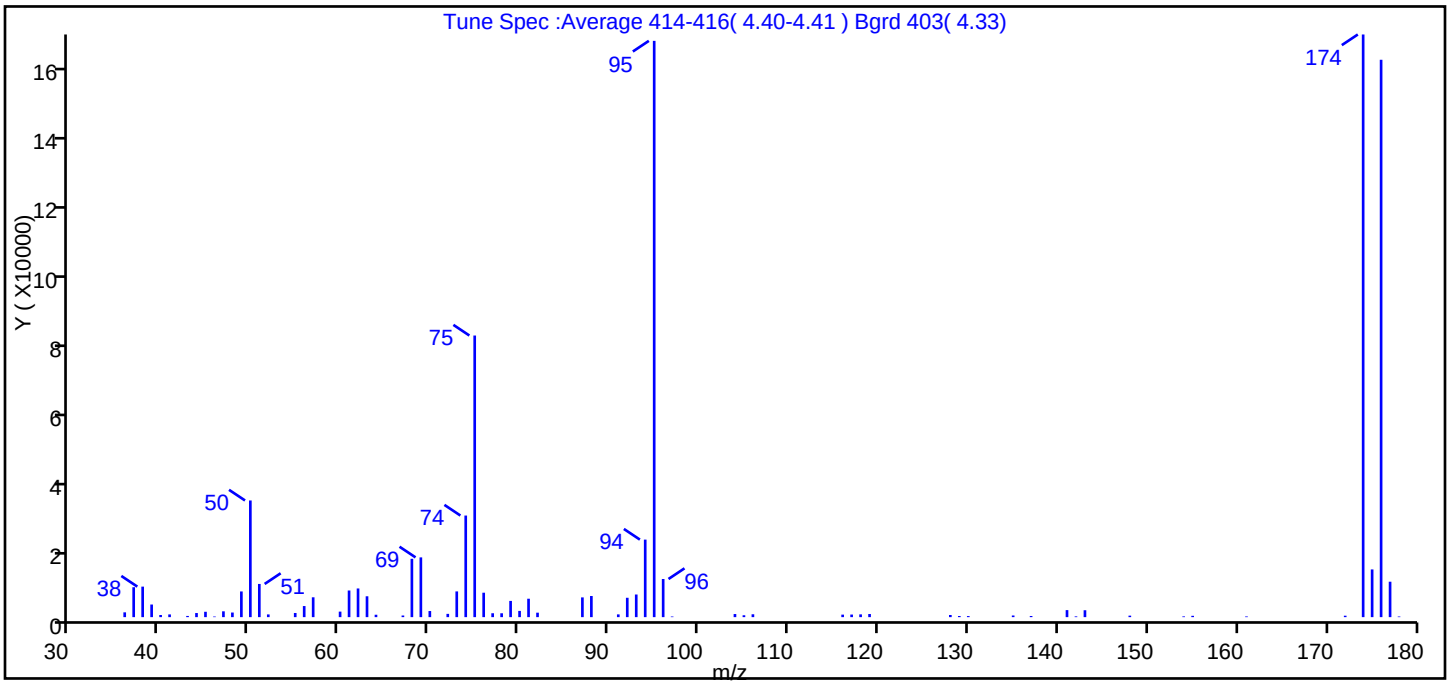
BFB_WRK_00056 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8453.D				
Injection Date:	05-Oct-2016 21:59:30	Instrument ID:	HP5973N		
Lims ID:	BFB				
Client ID:					
Operator ID:	SO	ALS Bottle#:	30	Worklist Smp#:	2
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Tune Method:	BFB Method 8260				

$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	20.2
75	30 to 60% of m/z 95	48.9
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	101.1
175	5 to 9% of m/z 174	8.3 (8.2)
176	Greater than 95% but less than 101% of m/z 174	96.7 (95.7)
177	5 to 9% of m/z 176	6.1 (6.4)

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8453.D\N-8260.rslt\spectra.d
Injection Date: 05-Oct-2016 21:59:30
Spectrum: Tune Spec :Average 414-416(4.40-4.41) Bgrd 403(4.33)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 73

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1349	60.00	1552	82.00	1254	130.00	300
37.00	8405	61.00	7483	87.00	5547	135.00	463
38.00	8571	62.00	8054	88.00	5936	137.00	322
39.00	3546	63.00	5861	91.00	775	141.00	1975
40.00	601	64.00	675	92.00	5439	142.00	214
41.00	767	67.00	459	93.00	6358	143.00	1940
43.00	337	68.00	16384	94.00	21776	148.00	418
44.00	1155	69.00	16784	95.00	161856	154.00	209
45.00	1508	70.00	1715	96.00	10713	155.00	372
46.00	172	72.00	922	97.00	176	161.00	197
47.00	1638	73.00	7227	104.00	875	172.00	403
48.00	1297	74.00	28536	105.00	529	174.00	163648
49.00	7217	75.00	79096	106.00	809	175.00	13399
50.00	32768	76.00	6863	116.00	709	176.00	156544
51.00	9323	77.00	1096	117.00	729	177.00	9952
52.00	764	78.00	1089	118.00	780	178.00	179
55.00	1166	79.00	4557	119.00	878		
56.00	3117	80.00	1750	128.00	603		
57.00	5575	81.00	5175	129.00	317		

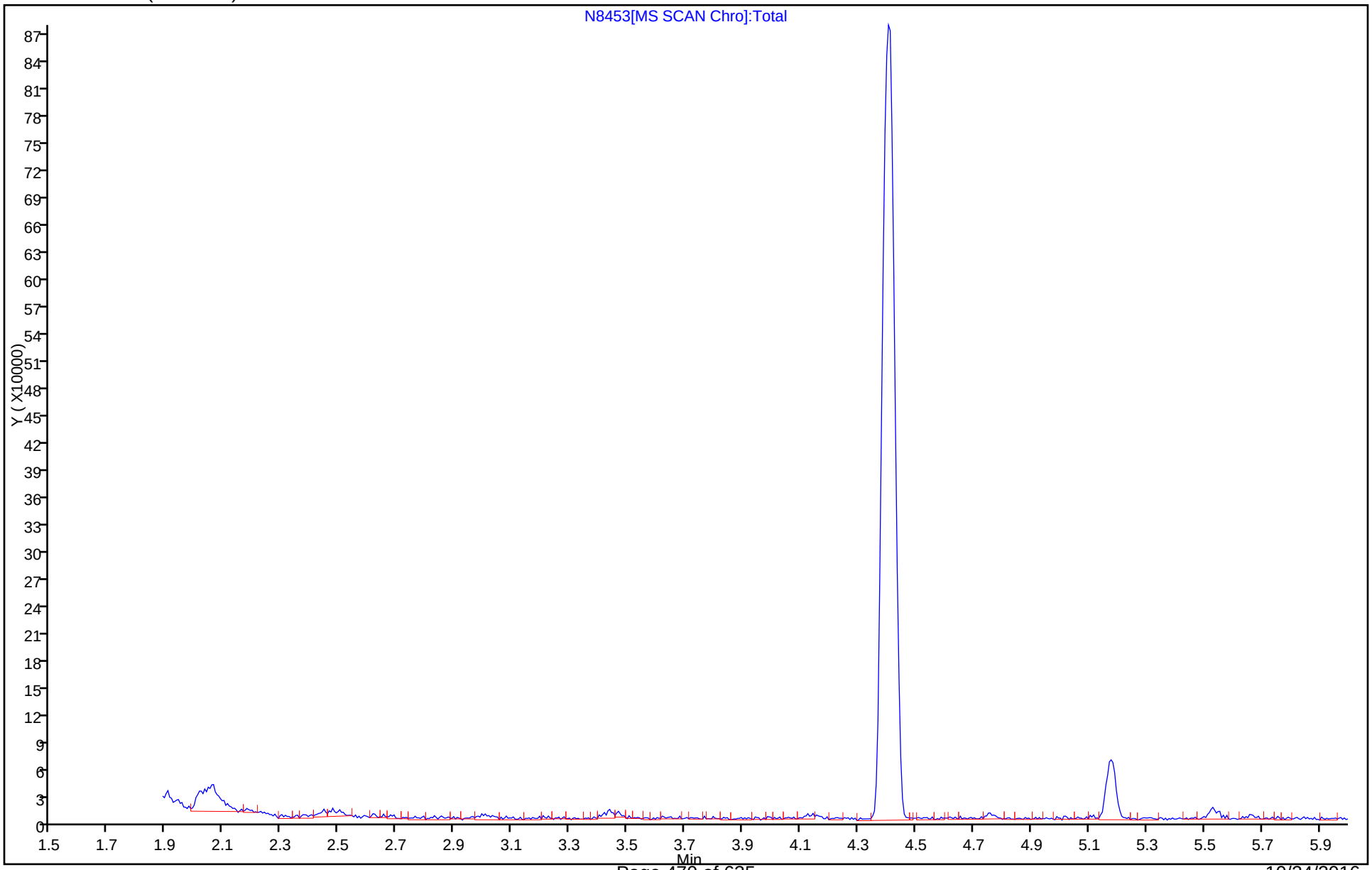
Report Date: 10-Oct-2016 13:14:14 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8453.D

Injection Date:	05-Oct-2016 21:59:30	Instrument ID:	HP5973N	Operator ID:	SO
Lims ID:	BFB			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8911.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	15-Oct-2016 17:03:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	480-0057315-001				
Operator ID:	NEA	Instrument ID:	HP5973N		
Method:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N-8260.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	15-Oct-2016 17:13:04	Calib Date:	06-Oct-2016 06:56:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D				
Column 1 :	ZB-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK001				
First Level Reviewer: archern		Date:	15-Oct-2016 17:13:04		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 4 BFB	95	4.412	4.412	0.000	95	144846	NR	NR	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Reagents:

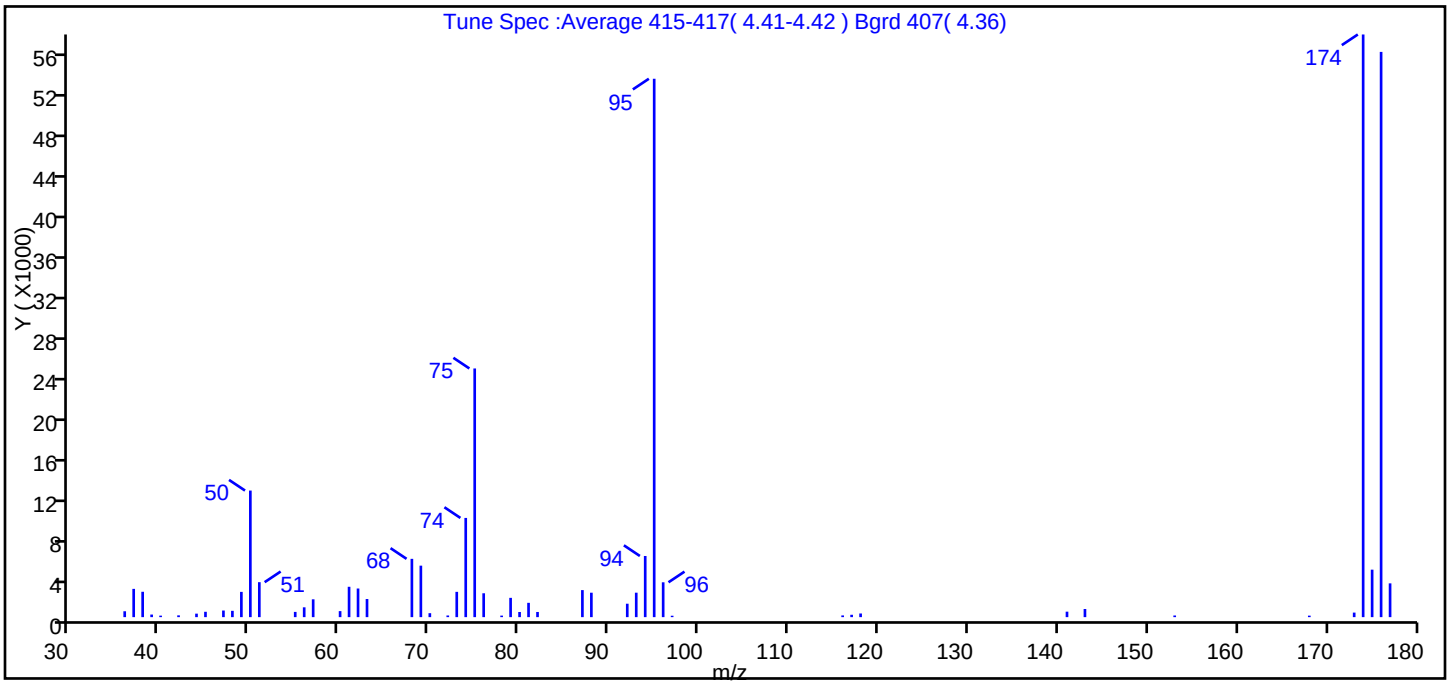
BFB_WRK_00056 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8911.D				
Injection Date:	15-Oct-2016 17:03:30	Instrument ID:	HP5973N		
Lims ID:	BFB				
Client ID:					
Operator ID:	NEA	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Tune Method:	BFB Method 8260				

$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	23.5
75	30 to 60% of m/z 95	46.2
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	0.8 (0.8)
174	50 to 120% of m/z 95	108.2
175	5 to 9% of m/z 174	8.8 (8.1)
176	Greater than 95% but less than 101% of m/z 174	105.0 (97.0)
177	5 to 9% of m/z 176	6.3 (6.0)

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8911.D\N-8260.rslt\spectra.d
Injection Date: 15-Oct-2016 17:03:30
Spectrum: Tune Spec :Average 415-417(4.41-4.42) Bgrd 407(4.36)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 53

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	578	56.00	966	78.00	151	117.00	233
37.00	2778	57.00	1753	79.00	1896	118.00	360
38.00	2493	60.00	592	80.00	505	141.00	538
39.00	255	61.00	2984	81.00	1407	143.00	800
40.00	148	62.00	2814	82.00	508	153.00	162
42.00	176	63.00	1782	87.00	2657	168.00	147
44.00	344	68.00	5730	88.00	2402	173.00	447
45.00	527	69.00	5060	92.00	1319	174.00	57264
47.00	651	70.00	389	93.00	2403	175.00	4666
48.00	621	72.00	163	94.00	6010	176.00	55552
49.00	2483	73.00	2486	95.00	52912	177.00	3320
50.00	12440	74.00	9751	96.00	3425		
51.00	3436	75.00	24440	97.00	139		
55.00	515	76.00	2346	116.00	169		

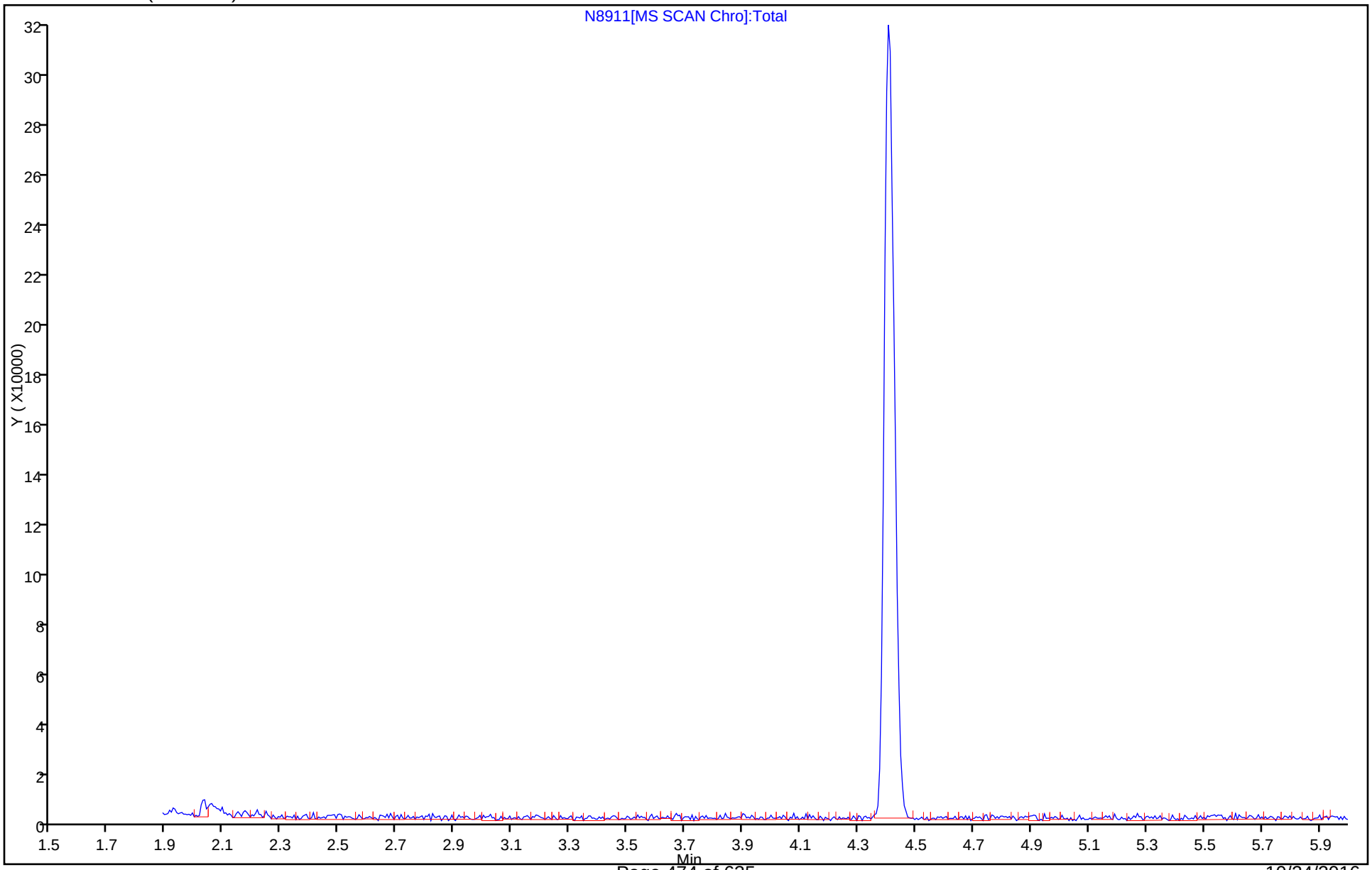
Report Date: 15-Oct-2016 17:13:05 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8911.D

Injection Date:	15-Oct-2016 17:03:30	Instrument ID:	HP5973N	Operator ID:	NEA
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161016-57327.b\N8938.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	16-Oct-2016 18:20:30	ALS Bottle#:	2	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	bfb				
Misc. Info.:	480-0057327-001				
Operator ID:	JG	Instrument ID:	HP5973N		
Method:	\\ChromNA\Buffalo\ChromData\HP5973N\20161016-57327.b\N-8260.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	16-Oct-2016 18:29:52	Calib Date:	06-Oct-2016 06:56:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D				
Column 1 :	ZB-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK014				
First Level Reviewer: gentilej		Date:	16-Oct-2016 18:29:52		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 4 BFB	95	4.406	4.406	0.000	94	370619	NR	NR	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Reagents:

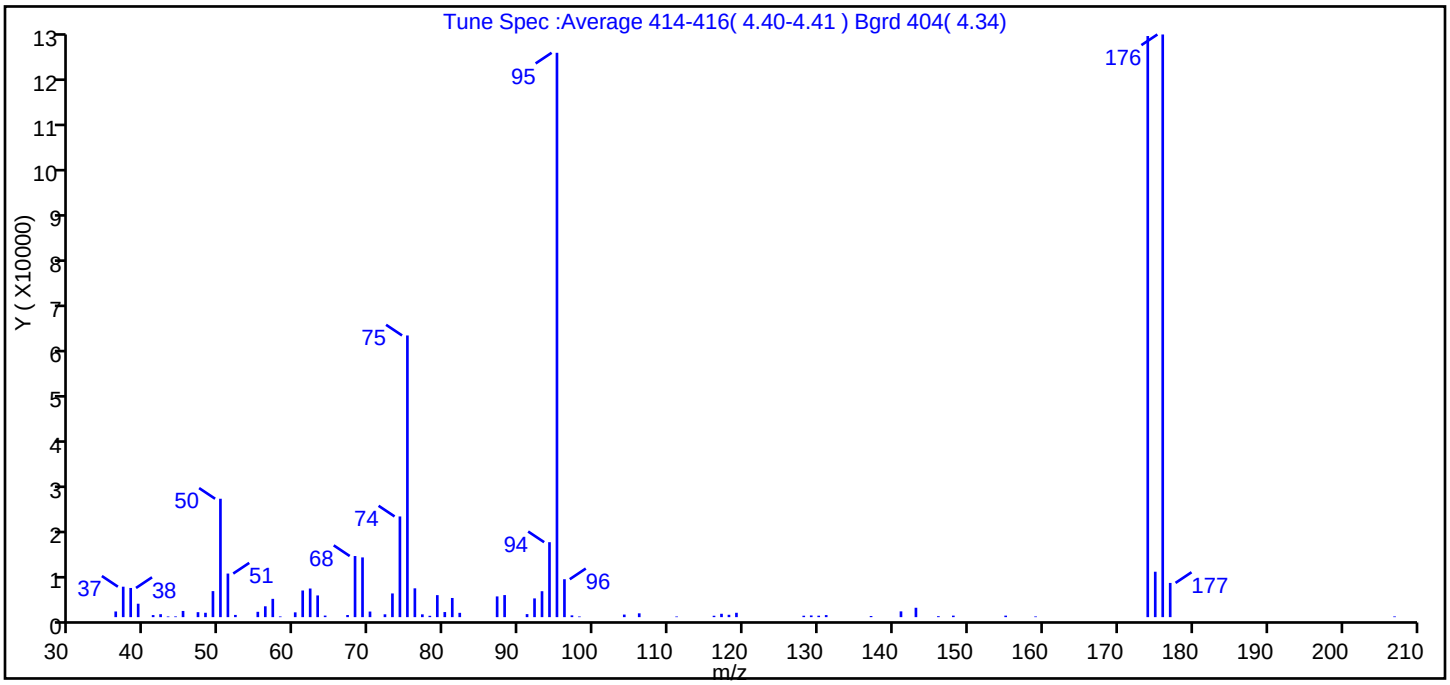
BFB_WRK_00056 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161016-57327.b\N8938.D
Injection Date: 16-Oct-2016 18:20:30 Instrument ID: HP5973N
Lims ID: BFB
Client ID:
Operator ID: JG ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	21.0
75	30 to 60% of m/z 95	49.9
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	103.0
175	5 to 9% of m/z 174	8.0 (7.8)
176	Greater than 95% but less than 101% of m/z 174	103.2 (100.3)
177	5 to 9% of m/z 176	6.1 (5.9)

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161016-57327.b\N8938.D\N-8260.rslt\spectra.d
Injection Date: 16-Oct-2016 18:20:30
Spectrum: Tune Spec :Average 414-416(4.40-4.41) Bgrd 404(4.34)
Base Peak: 176.00
Minimum % Base Peak: 0
Number of Points: 72

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1196	58.00	143	80.00	1074	118.00	494
37.00	6413	60.00	1010	81.00	4037	119.00	918
38.00	6147	61.00	5613	82.00	909	128.00	300
39.00	2829	62.00	6029	87.00	4367	129.00	355
41.00	435	63.00	4572	88.00	4648	130.00	306
42.00	621	64.00	329	91.00	640	131.00	432
43.00	144	67.00	448	92.00	3949	137.00	233
44.00	157	68.00	12871	93.00	5461	141.00	1216
45.00	1305	69.00	12581	94.00	15786	143.00	1978
47.00	1048	70.00	1179	95.00	118864	146.00	200
48.00	922	72.00	598	96.00	7987	148.00	321
49.00	5483	73.00	4992	97.00	376	155.00	319
50.00	24936	74.00	21208	98.00	138	159.00	148
51.00	9181	75.00	59328	104.00	542	174.00	122392
52.00	468	76.00	6069	106.00	804	175.00	9566
55.00	1125	77.00	590	111.00	138	176.00	122720
56.00	2285	78.00	285	116.00	294	177.00	7210
57.00	3853	79.00	4636	117.00	711	207.00	151

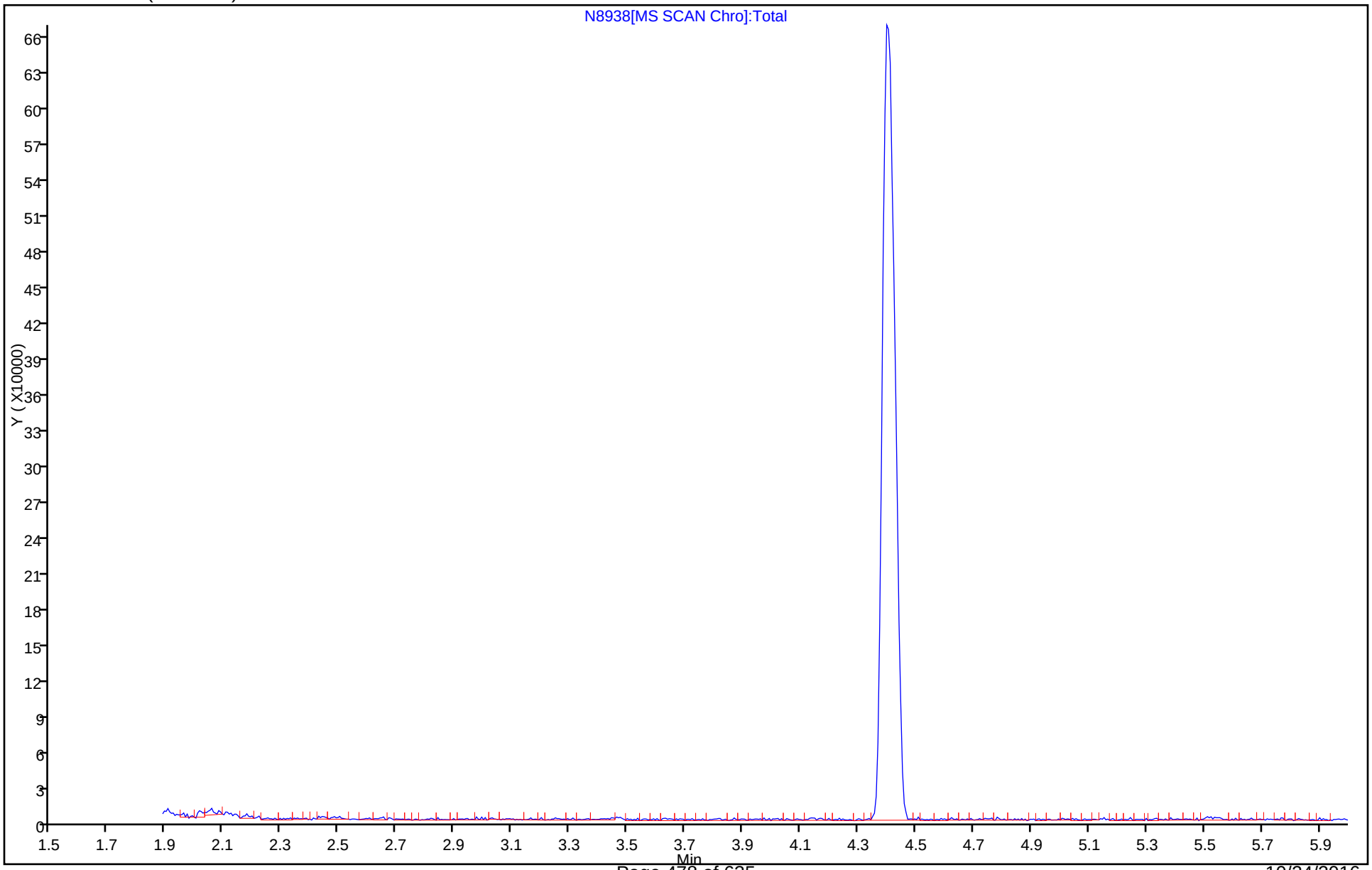
Report Date: 16-Oct-2016 18:29:53 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161016-57327.b\N8938.D

Injection Date:	16-Oct-2016 18:20:30	Instrument ID:	HP5973N	Operator ID:	JG
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161017-57336.b\N8967.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	17-Oct-2016 08:10:30	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	bfb				
Misc. Info.:	480-0057336-002				
Operator ID:	NEA	Instrument ID:	HP5973N		
Method:	\\ChromNA\Buffalo\ChromData\HP5973N\20161017-57336.b\N-8260.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	17-Oct-2016 08:18:26	Calib Date:	06-Oct-2016 06:56:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D				
Column 1 :	ZB-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK007				
First Level Reviewer: archern		Date:	17-Oct-2016 08:18:25		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 4 BFB	95	4.412	4.412	0.000	94	234381	NR	NR	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Reagents:

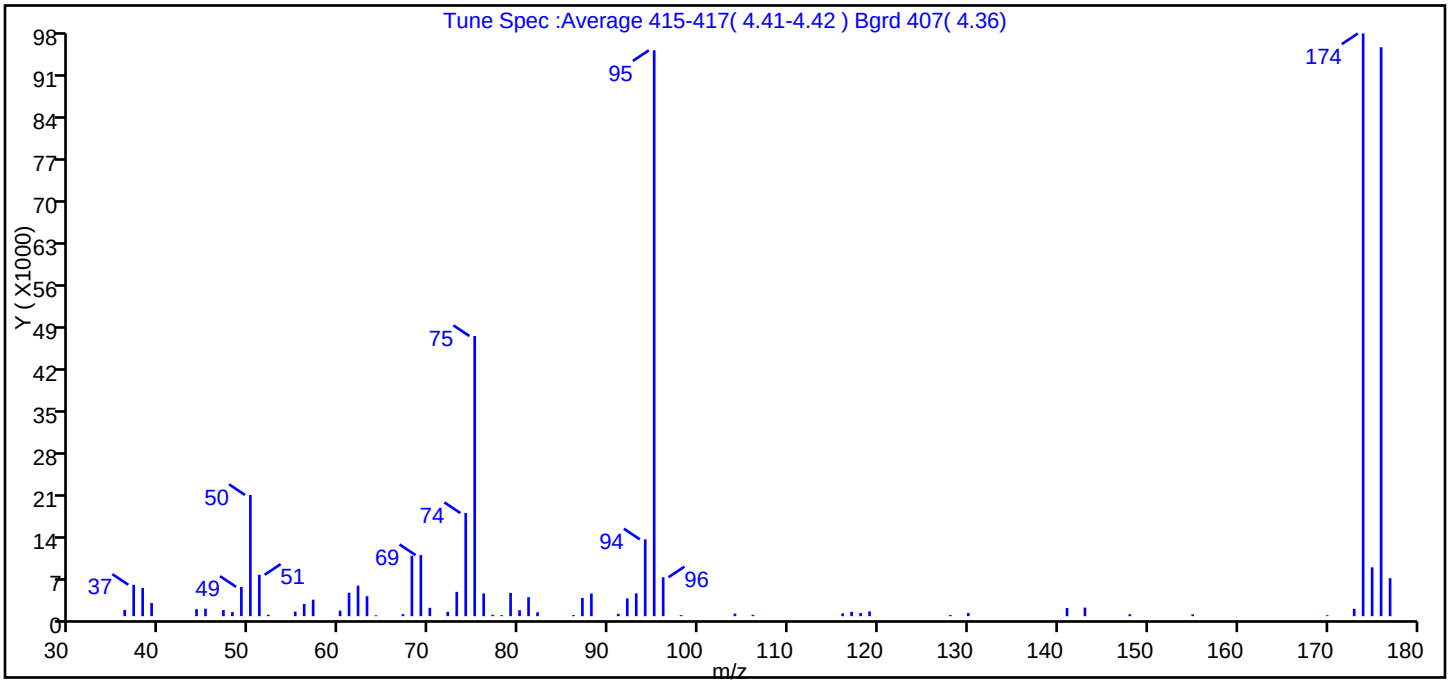
BFB_WRK_00056 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161017-57336.b\N8967.D
Injection Date: 17-Oct-2016 08:10:30 Instrument ID: HP5973N
Lims ID: BFB
Client ID:
Operator ID: NEA ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	21.4
75	30 to 60% of m/z 95	49.5
96	5 to 9% of m/z 95	6.9
173	Less than 2% of m/z 174	1.3 (1.3)
174	50 to 120% of m/z 95	103.0
175	5 to 9% of m/z 174	8.6 (8.4)
176	Greater than 95% but less than 101% of m/z 174	100.5 (97.6)
177	5 to 9% of m/z 176	6.7 (6.7)

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161017-57336.b\N8967.D\N-8260.rslt\spectra.d
Injection Date: 17-Oct-2016 08:10:30
Spectrum: Tune Spec :Average 415-417(4.41-4.42) Bgrd 407(4.36)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 63

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1048	61.00	3933	80.00	1001	117.00	724
37.00	5262	62.00	5120	81.00	3187	118.00	511
38.00	4731	63.00	3353	82.00	651	119.00	792
39.00	2203	64.00	143	86.00	174	128.00	179
44.00	1159	67.00	330	87.00	3056	130.00	522
45.00	1251	68.00	10138	88.00	3800	141.00	1368
47.00	1029	69.00	10249	91.00	389	143.00	1437
48.00	683	70.00	1400	92.00	2978	148.00	324
49.00	4918	72.00	738	93.00	3824	155.00	300
50.00	20344	73.00	4079	94.00	12887	170.00	149
51.00	6943	74.00	17304	95.00	95000	173.00	1234
52.00	227	75.00	47032	96.00	6526	174.00	97824
55.00	768	76.00	3818	98.00	168	175.00	8198
56.00	2053	77.00	222	104.00	425	176.00	95512
57.00	2761	78.00	155	106.00	215	177.00	6378
60.00	924	79.00	3903	116.00	463		

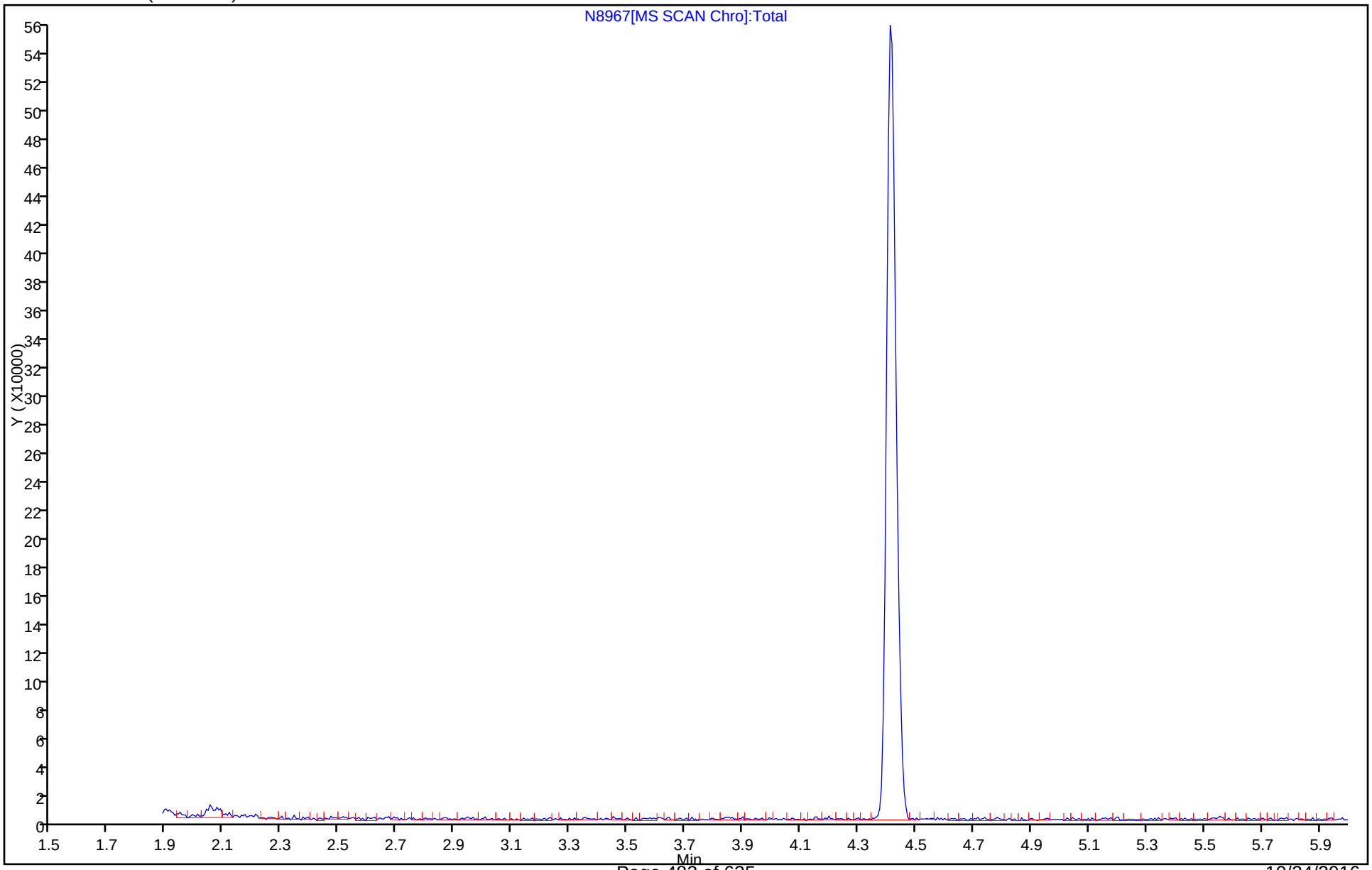
Report Date: 17-Oct-2016 08:18:26 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161017-57336.b\N8967.D

Injection Date:	17-Oct-2016 08:10:30	Instrument ID:	HP5973N	Operator ID:	NEA
Lims ID:	BFB			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0157.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	15-Sep-2016 14:06:30	ALS Bottle#:	1	Worklist Smp#:	3
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	480-0056398-003				
Operator ID:	CDC	Instrument ID:	HP5973P		
Method:	\\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P-8260H2O.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	15-Sep-2016 14:10:51	Calib Date:	14-Sep-2016 02:14:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160913-56329.b\P0080.D				
Column 1 :	ZB-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK050				
First Level Reviewer: cwiklinc		Date:	15-Sep-2016 14:10:51		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 21 BFB	95	7.140	7.140	0.000	0	197908	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

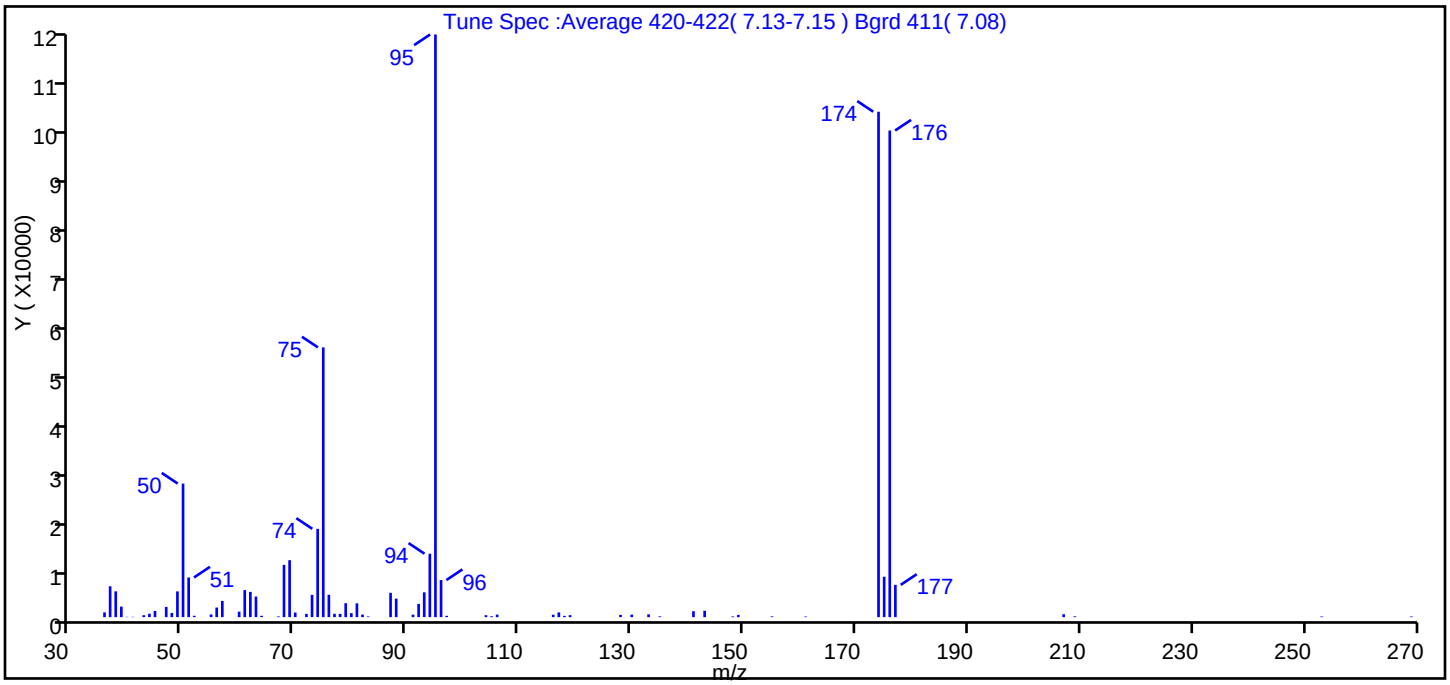
BFB_WRK_00056 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0157.D				
Injection Date:	15-Sep-2016 14:06:30	Instrument ID:	HP5973P		
Lims ID:	BFB				
Client ID:					
Operator ID:	CDC	ALS Bottle#:	1	Worklist Smp#:	3
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Tune Method:	BFB Method 8260				

$ 21 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.9
75	30 to 60% of m/z 95	46.3
96	5 to 9% of m/z 95	6.4
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	86.7
175	5 to 9% of m/z 174	6.9 (8.0)
176	Greater than 95% but less than 101% of m/z 174	83.5 (96.3)
177	5 to 9% of m/z 176	5.5 (6.6)

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0157.D\P-8260H2O.rslt\spectra.d
Injection Date: 15-Sep-2016 14:06:30
Spectrum: Tune Spec :Average 420-422(7.13-7.15) Bgrd 411(7.08)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 73

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	917	61.00	5183	83.00	129	133.00	534
37.00	5912	62.00	4843	87.00	4660	135.00	148
38.00	4948	63.00	3947	88.00	3551	141.00	1140
39.00	2025	64.00	262	91.00	482	143.00	1222
40.00	57	67.00	143	92.00	2539	148.00	134
41.00	60	68.00	10021	93.00	4758	149.00	436
43.00	374	69.00	10919	94.00	12157	155.00	147
44.00	651	70.00	881	95.00	111704	161.00	120
45.00	1190	72.00	628	96.00	7108	174.00	96896
47.00	1965	73.00	4271	97.00	258	175.00	7742
48.00	800	74.00	16928	104.00	379	176.00	93288
49.00	4937	75.00	51712	105.00	168	177.00	6188
50.00	25608	76.00	4288	106.00	486	207.00	554
51.00	7602	77.00	639	116.00	466	209.00	162
52.00	260	78.00	623	117.00	913	253.00	124
55.00	513	79.00	2671	118.00	247	269.00	126
56.00	1836	80.00	758	119.00	383		
57.00	3112	81.00	2651	128.00	435		
60.00	1055	82.00	495	130.00	479		

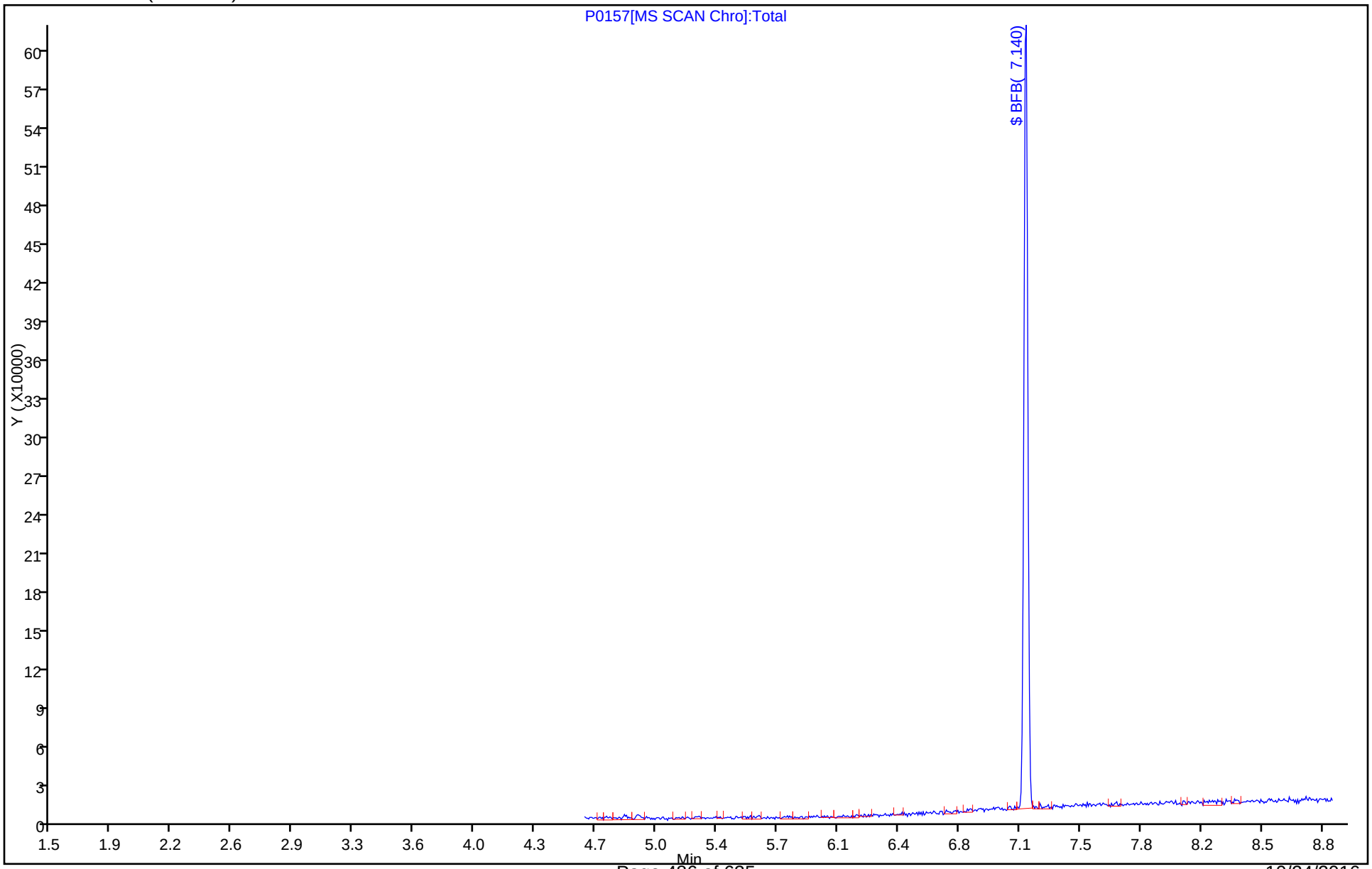
Report Date: 15-Sep-2016 14:10:52 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0157.D

Injection Date:	15-Sep-2016 14:06:30	Instrument ID:	HP5973P	Operator ID:	CDC
Lims ID:	BFB			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1389.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	14-Oct-2016 08:49:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	480-0057262-001				
Operator ID:	RF	Instrument ID:	HP5973P		
Method:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P-8260H2O.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	14-Oct-2016 08:51:58	Calib Date:	15-Sep-2016 21:21:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D				
Column 1 :	ZB-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK002				
First Level Reviewer: farrellr		Date:	14-Oct-2016 08:51:58		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 21 BFB	95	7.146	7.146	0.000	0	51361	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

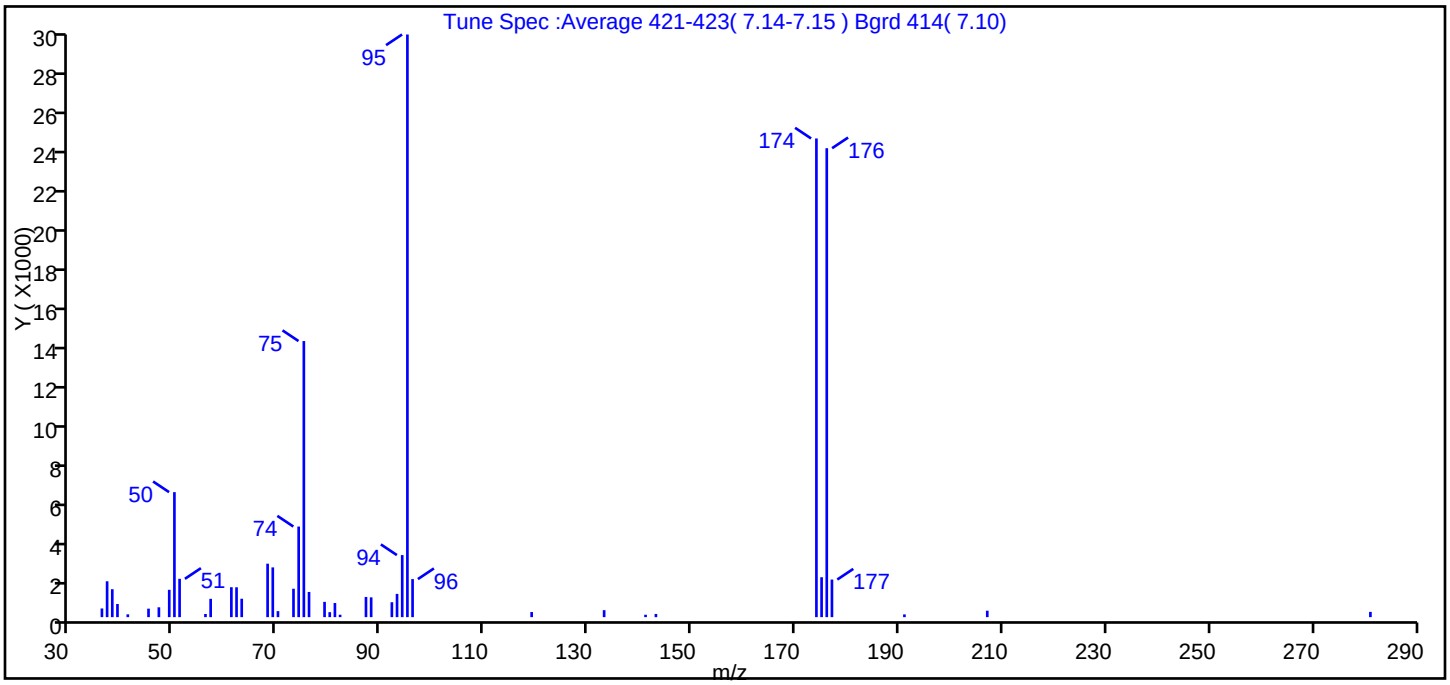
BFB_WRK_00056 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1389.D				
Injection Date:	14-Oct-2016 08:49:30	Instrument ID:	HP5973P		
Lims ID:	BFB				
Client ID:					
Operator ID:	RF	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Tune Method:	BFB Method 8260				

$ 21 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	21.5
75	30 to 60% of m/z 95	47.4
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	82.2
175	5 to 9% of m/z 174	6.9 (8.3)
176	Greater than 95% but less than 101% of m/z 174	80.5 (98.0)
177	5 to 9% of m/z 176	6.5 (8.0)

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1389.D\P-8260H2O.rslt\spectra.d
Injection Date: 14-Oct-2016 08:49:30
Spectrum: Tune Spec :Average 421-423(7.14-7.15) Bgrd 414(7.10)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 44

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	441	57.00	931	79.00	777	119.00	260
37.00	1824	61.00	1522	80.00	253	133.00	355
38.00	1421	62.00	1519	81.00	718	141.00	122
39.00	669	63.00	936	82.00	123	143.00	162
41.00	143	68.00	2718	87.00	1027	174.00	24344
45.00	432	69.00	2530	88.00	1007	175.00	2030
47.00	501	70.00	306	92.00	759	176.00	23848
49.00	1390	73.00	1445	93.00	1182	177.00	1912
50.00	6357	74.00	4608	94.00	3156	191.00	140
51.00	1949	75.00	14041	95.00	29632	207.00	327
56.00	161	76.00	1281	96.00	1935	281.00	268

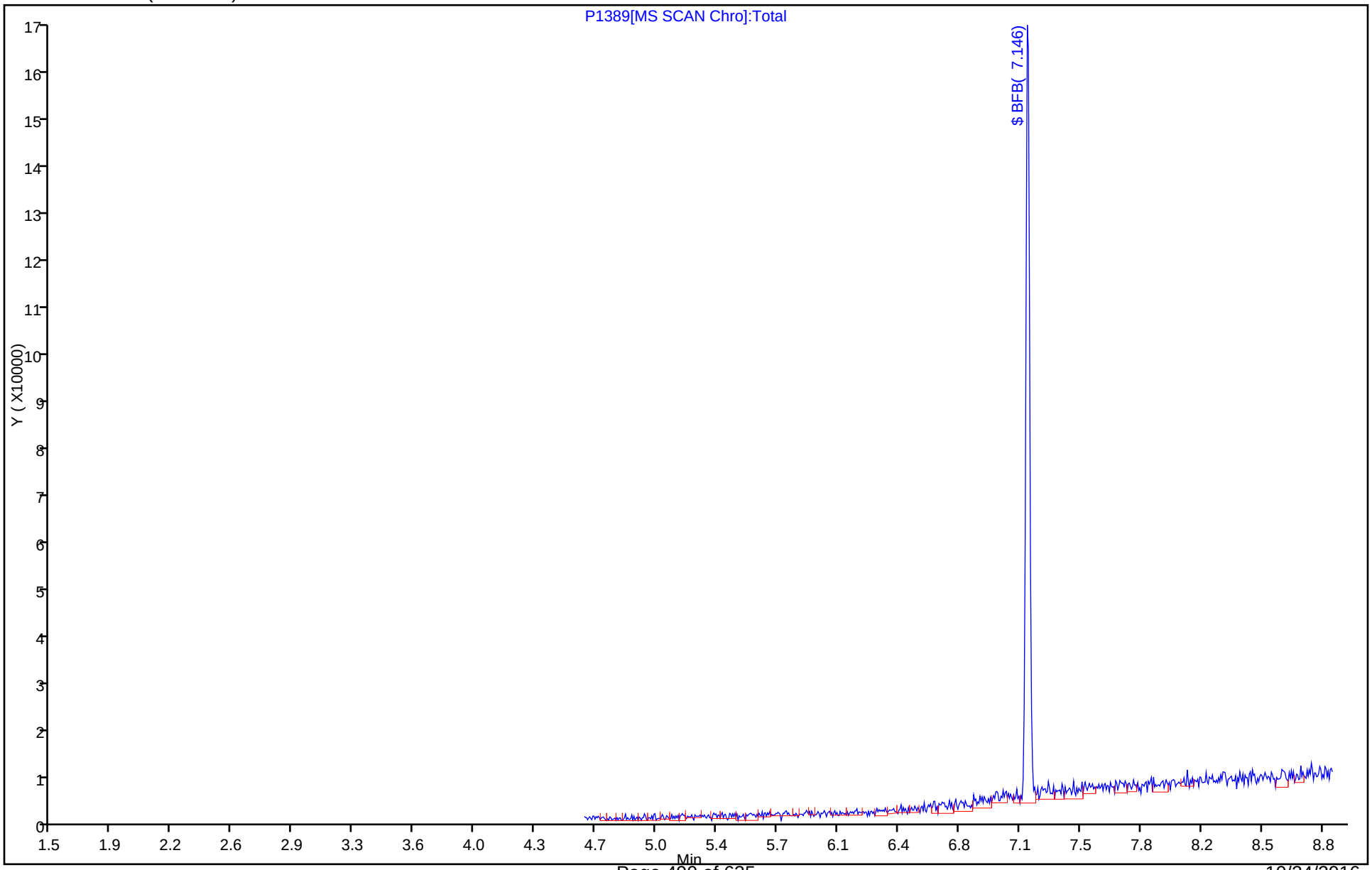
Report Date: 14-Oct-2016 08:51:59 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1389.D

Injection Date:	14-Oct-2016 08:49:30	Instrument ID:	HP5973P	Operator ID:	RF
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57299.b\P1413.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	14-Oct-2016 20:39:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	480-0057299-001				
Operator ID:	SY	Instrument ID:	HP5973P		
Method:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57299.b\P-8260H2O.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	14-Oct-2016 20:51:39	Calib Date:	15-Sep-2016 21:21:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D				
Column 1 :	ZB-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK008				
First Level Reviewer: youngmans		Date:	14-Oct-2016 20:51:39		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 21 BFB	95	7.152	7.152	0.000	0	114440	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

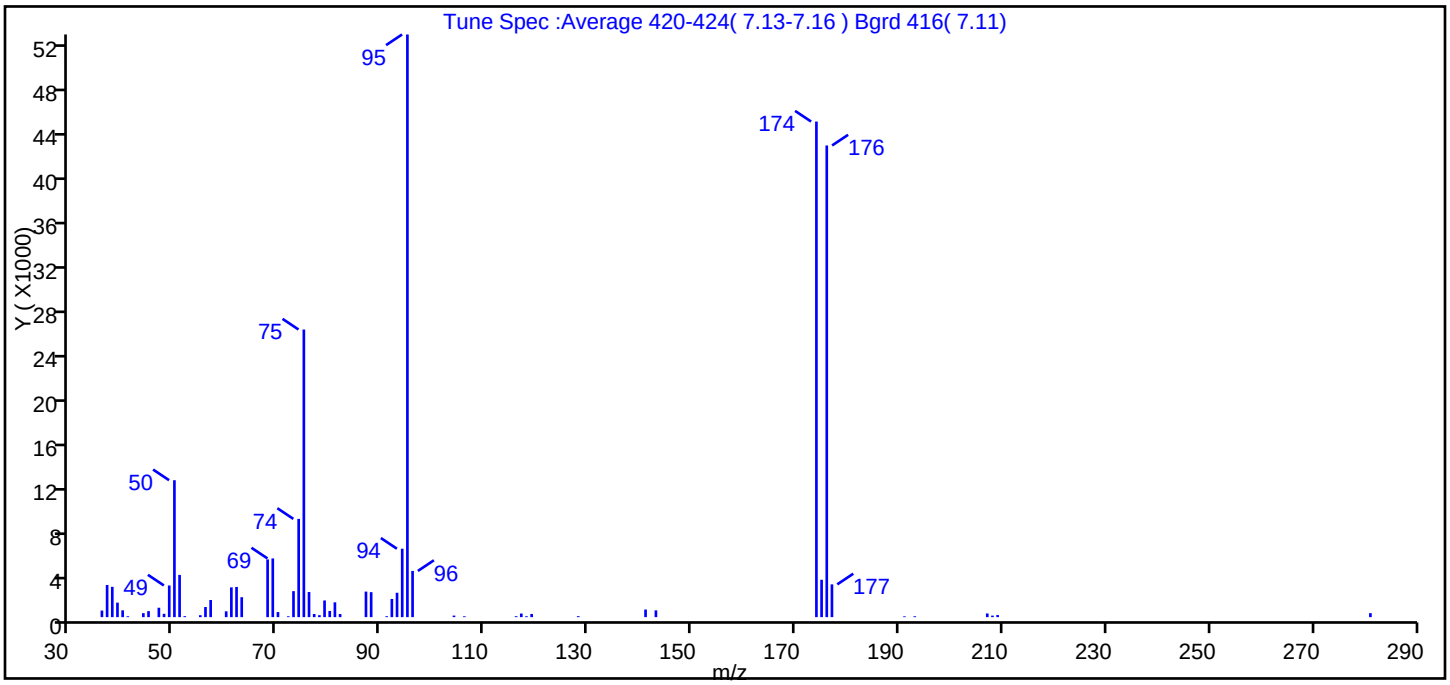
BFB_WRK_00056 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57299.b\P1413.D				
Injection Date:	14-Oct-2016 20:39:30	Instrument ID:	HP5973P		
Lims ID:	BFB				
Client ID:					
Operator ID:	SY	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Tune Method:	BFB Method 8260				

$ 21 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	23.5
75	30 to 60% of m/z 95	49.4
96	5 to 9% of m/z 95	7.9
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	85.1
175	5 to 9% of m/z 174	6.4 (7.5)
176	Greater than 95% but less than 101% of m/z 174	81.0 (95.2)
177	5 to 9% of m/z 176	5.6 (7.0)

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57299.b\P1413.D\P-8260H2O.rslt\spectra.d
Injection Date: 14-Oct-2016 20:39:30
Spectrum: Tune Spec :Average 420-424(7.13-7.16) Bgrd 416(7.11)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 62

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	590	57.00	1534	80.00	555	119.00	285
37.00	2882	60.00	522	81.00	1329	128.00	87
38.00	2715	61.00	2667	82.00	279	141.00	681
39.00	1300	62.00	2706	87.00	2289	143.00	607
40.00	610	63.00	1788	88.00	2238	174.00	44400
41.00	77	68.00	5172	91.00	80	175.00	3350
44.00	357	69.00	5260	92.00	1630	176.00	42256
45.00	540	70.00	456	93.00	2186	177.00	2937
47.00	843	72.00	75	94.00	6131	191.00	70
48.00	300	73.00	2331	95.00	52200	193.00	79
49.00	2837	74.00	8802	96.00	4139	207.00	328
50.00	12268	75.00	25768	104.00	140	208.00	137
51.00	3782	76.00	2250	106.00	75	209.00	186
52.00	88	77.00	283	116.00	84	281.00	358
55.00	173	78.00	175	117.00	323		
56.00	908	79.00	1496	118.00	78		

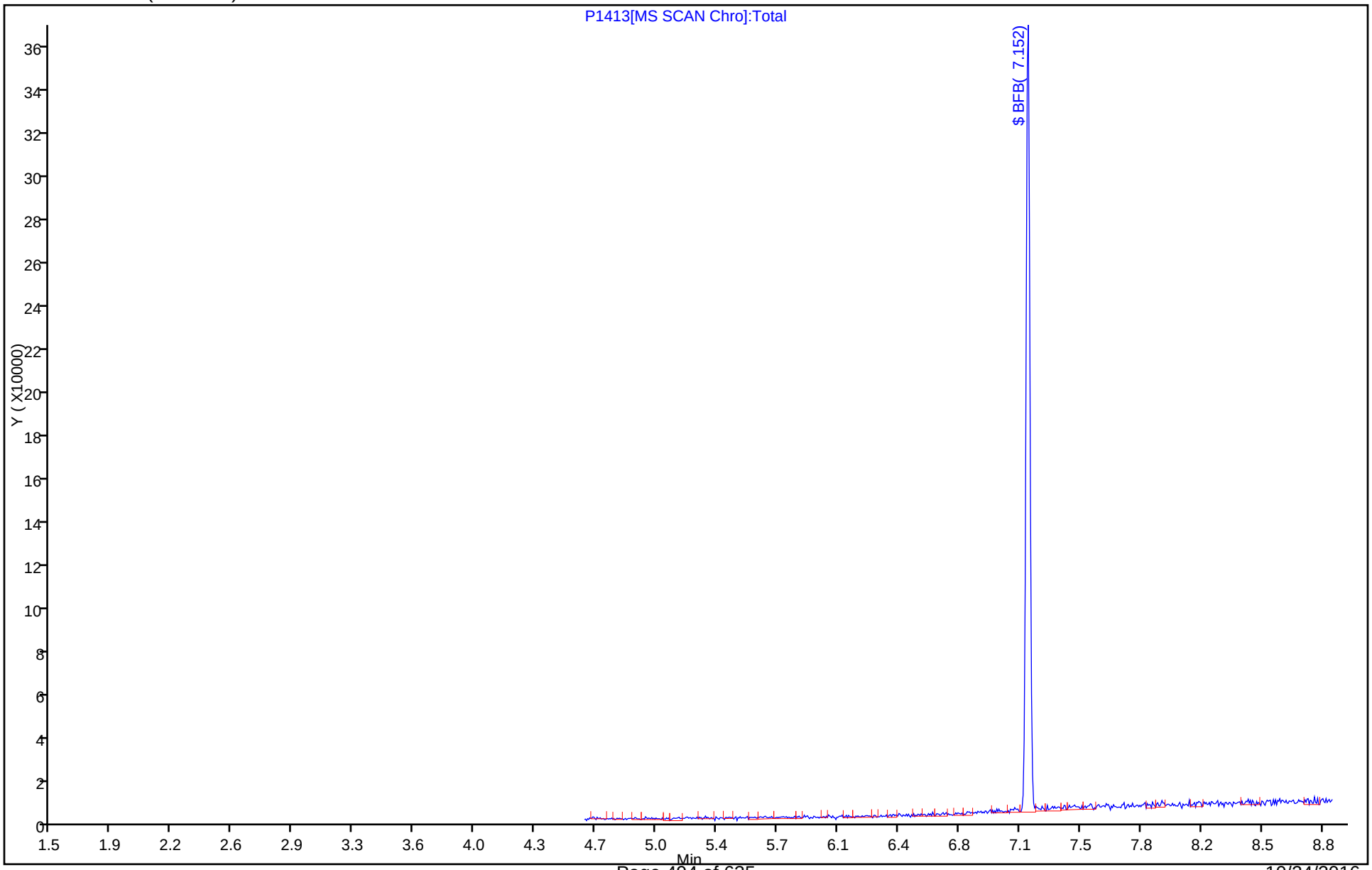
Report Date: 14-Oct-2016 20:51:40 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57299.b\P1413.D

Injection Date:	14-Oct-2016 20:39:30	Instrument ID:	HP5973P	Operator ID:	SY
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	P-8260H2O	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.: 480-107471-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-325584/6

Matrix: Water | Lab File ID: P1394.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/14/2016 11:27

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.: 325584 | 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.: 480-107471-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-325584/6

Matrix: Water | Lab File ID: P1394.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/14/2016 11:27

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.: 325584 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
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		77-120
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
2037-26-5	Toluene-d8 (Surr)	95		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1394.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 14-Oct-2016 11:27:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0057262-006
Operator ID: RF Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Oct-2016 11:48:51 Calib Date: 15-Sep-2016 21:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: farrellr Date: 14-Oct-2016 11:48:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.821	9.821	0.000	98	115789	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.757	13.764	-0.007	87	230613	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.750	16.751	-0.001	96	262629	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.012	9.012	0.000	93	149030	25.0	26.1	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.456	9.456	0.000	0	94703	25.0	25.5	
$ 5 Toluene-d8 (Surr)	98	11.798	11.799	-0.001	93	485648	25.0	23.7	
$ 6 4-Bromofluorobenzene (Surr	174	15.272	15.278	-0.006	91	176722	25.0	25.2	
10 Dichlorodifluoromethane	85		3.981					ND	
15 Chlorodifluoromethane	51		4.005					ND	
11 Chloromethane	50		4.316					ND	
17 Vinyl chloride	62		4.529					ND	
144 Butadiene	54		4.547					ND	
12 Bromomethane	94		5.082					ND	
13 Chloroethane	64		5.204					ND	
19 Dichlorofluoromethane	67		5.496					ND	
14 Trichlorofluoromethane	101		5.605					ND	
141 Ethanol	45		5.770					ND	
20 Ethyl ether	59		5.897					ND	
26 Propene oxide	58		6.050					ND	
22 Acrolein	56		6.147					ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.244					ND	
25 1,1-Dichloroethene	96		6.287					ND	
24 Acetone	43		6.323					ND	
23 Isopropyl alcohol	45		6.427					ND	
18 Iodomethane	142		6.554					ND	
27 Carbon disulfide	76		6.664					ND	
30 Methyl acetate	43		6.700					ND	
29 Acetonitrile	40		6.719					ND	
28 3-Chloro-1-propene	41		6.731					ND	
31 Methylene Chloride	84		6.907					ND	
33 2-Methyl-2-propanol	59		6.925					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
32 Methyl tert-butyl ether	73		7.163					ND	
34 Acrylonitrile	53		7.193					ND	
35 trans-1,2-Dichloroethene	96		7.230					ND	
36 Hexane	57		7.461					ND	
37 Isopropyl ether	45		7.680					ND	
38 Vinyl acetate	43		7.698					ND	
40 1,1-Dichloroethane	63		7.753					ND	
39 1,1-Dimethoxyethane	75		7.783					ND	
41 2-Chloro-1,3-butadiene	53		7.844					ND	
42 Tert-butyl ethyl ether	59		8.118					ND	
46 Ethyl acetate	43		8.392					ND	
44 2-Butanone (MEK)	43		8.398					ND	
43 cis-1,2-Dichloroethene	96		8.452					ND	
45 2,2-Dichloropropane	77		8.459					ND	
47 Propionitrile	54		8.526					ND	
48 Methacrylonitrile	41		8.696					ND	
50 Chlorobromomethane	128		8.763					ND	
51 Tetrahydrofuran	42		8.793					ND	
49 Chloroform	83		8.805					ND	
52 1,1,1-Trichloroethane	97		9.067					ND	
54 Cyclohexane	56		9.134					ND	
53 Isobutyl alcohol	43		9.213					ND	
56 1,1-Dichloropropene	75		9.237					ND	
55 Carbon tetrachloride	117		9.268					ND	
140 t-Amyl alcohol	59		9.347					ND	
146 Isooctane	57		9.481					ND	
57 Benzene	78		9.517					ND	
58 Tert-amyl methyl ether	73		9.523					ND	
60 1,2-Dichloroethane	62		9.541					ND	
59 n-Heptane	43		9.639					ND	
66 2-Methylthiophene	97		9.687					ND	
67 3-Methylthiophene	97	9.827	9.894	-0.067	42	36909			NC
1 1,4-Difluorobenzene	114		9.894					ND	
61 n-Butanol	56		10.010					ND	
145 Ethyl acrylate	55		10.253					ND	
62 Trichloroethene	95		10.265					ND	
64 Methylcyclohexane	83		10.509					ND	
65 Methyl methacrylate	41		10.551					ND	
63 1,2-Dichloropropane	63		10.582					ND	
68 1,4-Dioxane	88		10.697					ND	
69 Dibromomethane	93		10.770					ND	
70 Dichlorobromomethane	83		10.904					ND	
71 2-Chloroethyl vinyl ether	63		11.172					ND	
72 2-Nitropropane	43		11.178					ND	
74 Epichlorohydrin	57		11.342					ND	
73 cis-1,3-Dichloropropene	75		11.446					ND	
75 4-Methyl-2-pentanone (MIBK	43		11.555					ND	
76 Toluene	92		11.884					ND	
77 Ethyl methacrylate	69		12.115					ND	
78 trans-1,3-Dichloropropene	75		12.145					ND	
79 1,1,2-Trichloroethane	83		12.431					ND	
80 Tetrachloroethene	166		12.632					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
83 2-Hexanone	43		12.638					ND	
82 1,3-Dichloropropane	76		12.668					ND	
149 n-Butyl acetate	43		12.729					ND	
81 Chlorodibromomethane	129		13.009					ND	
85 Ethylene Dibromide	107		13.210					ND	
84 3-Chlorobenzotrifluoride	180		13.605					ND	
139 1-Chlorohexane	55		13.624					ND	
86 4-Chlorobenzotrifluoride	180		13.678					ND	
87 Chlorobenzene	112		13.800					ND	
89 Ethylbenzene	91		13.867					ND	
88 1,1,1,2-Tetrachloroethane	131		13.885					ND	
90 m-Xylene & p-Xylene	106		14.007					ND	
93 o-Xylene	106		14.560					ND	
94 Styrene	104		14.573					ND	
91 2-Chlorobenzotrifluoride	180		14.859					ND	
92 Bromoform	173		14.931					ND	
95 Isopropylbenzene	105		14.998					ND	
96 Cyclohexanone	55		15.242					ND	
97 1,1,2,2-Tetrachloroethane	83		15.424					ND	
98 trans-1,4-Dichloro-2-buten	53		15.479					ND	
101 1,2,3-Trichloropropane	110		15.515					ND	
100 Bromobenzene	156		15.522					ND	
99 N-Propylbenzene	91		15.528					ND	
103 2-Chlorotoluene	126		15.716					ND	
102 1,3,5-Trimethylbenzene	105		15.728					ND	
104 3-Chlorotoluene	126		15.789					ND	
105 4-Chlorotoluene	126		15.850					ND	
106 tert-Butylbenzene	134		16.166					ND	
107 1,2,4-Trimethylbenzene	105		16.227					ND	
108 Pentachloroethane	167		16.282					ND	
109 sec-Butylbenzene	105		16.434					ND	
112 4-Isopropyltoluene	119		16.592					ND	
110 1,3-Dichlorobenzene	146		16.677					ND	
111 1,4-Dichlorobenzene	146		16.781					ND	
113 1,2,3-Trimethylbenzene	105		16.787					ND	
114 Dicyclopentadiene	66		16.805					ND	
143 Benzyl chloride	126		16.933					ND	
115 n-Butylbenzene	91		17.103					ND	
116 1,2-Dichlorobenzene	146		17.268					ND	
117 1,2-Dibromo-3-Chloropropan	75		18.241					ND	
118 1,3,5-Trichlorobenzene	180		18.460					ND	
119 1,2,4-Trichlorobenzene	180		19.318					ND	
120 Hexachlorobutadiene	225		19.464					ND	
121 Naphthalene	128		19.713					ND	
122 1,2,3-Trichlorobenzene	180		20.072					ND	
142 2-Methylnaphthalene	142		21.526					ND	
136 Propene oxide TIC	1		0.000					ND	
138 Ethylene oxide TIC	1		0.000					ND	
137 1-Bromopropane TIC	1		0.000					ND	
134 Halothane	1		0.000					ND	
135 Pentachloroethane TIC	1		0.000					ND	
S 125 Total BTEX	1		30.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
S 126 Xylenes, Total	1		30.000					ND	
S 123 1,2-Dichloroethene, Total	1		30.000					ND	
S 124 1,3-Dichloropropene, Total	1		30.000					ND	
T 150 1-Chloro-1-fluoroethane TI	47		5.300					ND	
T 130 Bromoethane TIC	1		0.000					ND	
T 129 bis(chloromethyl)ether TIC	1		0.000					ND	
T 131 1-Bromopropane	1		0.000					ND	
T 133 Aziridine TIC	1		0.000					ND	
T 132 tert-amyl alcohol TIC	1		0.000					ND	
T 7 Ethylene oxide	1		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 128 Hexachloroethane TIC	201		0.000					ND	
T 127 Ethanol TIC	45		0.000					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

P 8260 IS_00173	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00197	Amount Added:	1.25	Units: uL	Run Reagent

Report Date: 14-Oct-2016 11:48:52 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1394.D

Injection Date: 14-Oct-2016 11:27:30 Instrument ID: HP5973P Operator ID: RF

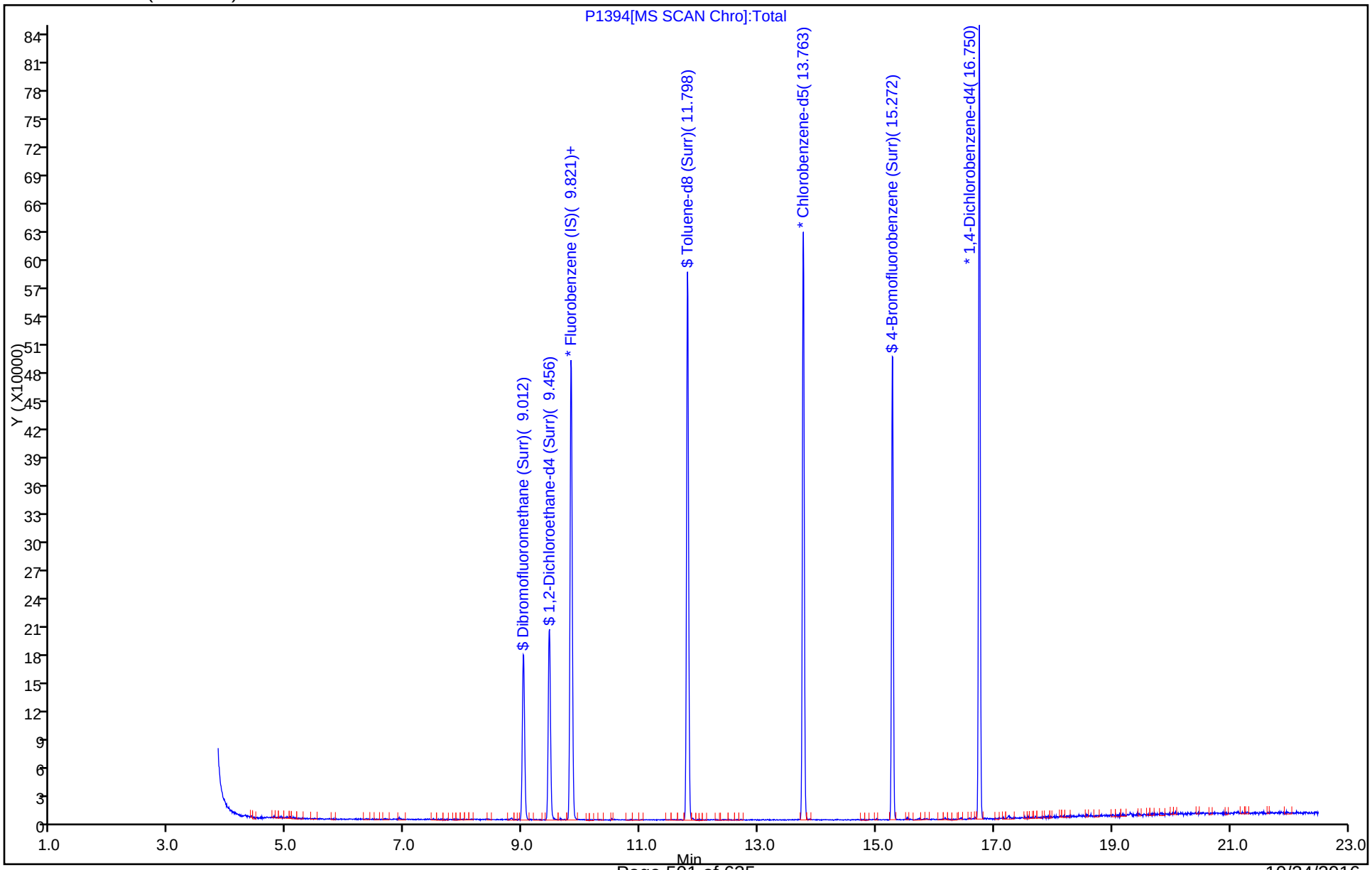
Lims ID: MB Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 6

Method: P-8260H2O Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Recovery Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1394.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 14-Oct-2016 11:27:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0057262-006
Operator ID: RF Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Oct-2016 11:48:51 Calib Date: 15-Sep-2016 21:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: farrellr Date: 14-Oct-2016 11:48:51

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	26.1	104.51
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	25.5	102.07
$ 5 Toluene-d8 (Surr)	25.0	23.7	94.85
$ 6 4-Bromofluorobenzene (Surr)	25.0	25.2	100.76

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-325765/6

Matrix: Water | Lab File ID: P1418.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/14/2016 23:05

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.: 325765 | 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.: 480-107471-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 480-325765/6
Matrix: Water
Lab File ID: P1418.D
Analysis Method: 8260C
Date Collected:
Sample wt/vol: 5(mL)
Date Analyzed: 10/14/2016 23:05
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.: 325765
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
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)	107		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57299.b\P1418.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 14-Oct-2016 23:05:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0057299-006
Operator ID: SY Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57299.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Oct-2016 23:34:35 Calib Date: 15-Sep-2016 21:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: youngmans Date: 14-Oct-2016 23:34:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.821	9.821	0.000	98	99937	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.763	13.764	-0.001	86	205316	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.750	16.751	-0.001	96	237665	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.012	9.012	0.000	93	136746	25.0	27.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.456	9.456	0.000	0	85875	25.0	26.8	
$ 5 Toluene-d8 (Surr)	98	11.798	11.799	-0.001	93	445713	25.0	24.4	
$ 6 4-Bromofluorobenzene (Surr	174	15.278	15.272	0.006	90	156489	25.0	25.1	
10 Dichlorodifluoromethane	85		3.987					ND	
15 Chlorodifluoromethane	51		4.006					ND	
11 Chloromethane	50		4.322					ND	
17 Vinyl chloride	62		4.535					ND	
144 Butadiene	54		4.553					ND	
12 Bromomethane	94		5.094					ND	
13 Chloroethane	64		5.210					ND	
19 Dichlorofluoromethane	67		5.502					ND	
14 Trichlorofluoromethane	101		5.611					ND	
141 Ethanol	45		5.776					ND	
20 Ethyl ether	59		5.903					ND	
26 Propene oxide	58		6.050					ND	
22 Acrolein	56		6.147					ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.250					ND	
25 1,1-Dichloroethene	96		6.293					ND	
24 Acetone	43		6.323					ND	
23 Isopropyl alcohol	45		6.433					ND	
18 Iodomethane	142		6.554					ND	
27 Carbon disulfide	76		6.670					ND	
30 Methyl acetate	43		6.700					ND	
29 Acetonitrile	40		6.725					ND	
28 3-Chloro-1-propene	41		6.737					ND	
31 Methylene Chloride	84		6.913					ND	
33 2-Methyl-2-propanol	59		6.931					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
32 Methyl tert-butyl ether	73		7.163					ND	
34 Acrylonitrile	53		7.199					ND	
35 trans-1,2-Dichloroethene	96		7.230					ND	
36 Hexane	57		7.467					ND	
37 Isopropyl ether	45		7.686					ND	
38 Vinyl acetate	43		7.704					ND	
40 1,1-Dichloroethane	63		7.753					ND	
39 1,1-Dimethoxyethane	75		7.783					ND	
41 2-Chloro-1,3-butadiene	53		7.850					ND	
42 Tert-butyl ethyl ether	59		8.124					ND	
44 2-Butanone (MEK)	43		8.398					ND	
46 Ethyl acetate	43		8.398					ND	
43 cis-1,2-Dichloroethene	96		8.452					ND	
45 2,2-Dichloropropane	77		8.452					ND	
47 Propionitrile	54		8.526					ND	
48 Methacrylonitrile	41		8.702					ND	
50 Chlorobromomethane	128		8.769					ND	
51 Tetrahydrofuran	42		8.793					ND	
49 Chloroform	83		8.805					ND	
52 1,1,1-Trichloroethane	97		9.067					ND	
54 Cyclohexane	56		9.134					ND	
53 Isobutyl alcohol	43		9.213					ND	
56 1,1-Dichloropropene	75		9.243					ND	
55 Carbon tetrachloride	117		9.274					ND	
140 t-Amyl alcohol	59		9.353					ND	
146 Isooctane	57		9.481					ND	
57 Benzene	78		9.517					ND	
58 Tert-amyl methyl ether	73		9.523					ND	
60 1,2-Dichloroethane	62		9.541					ND	
59 n-Heptane	43		9.645					ND	
66 2-Methylthiophene	97		9.687					ND	
67 3-Methylthiophene	97		9.894					ND	
1 1,4-Difluorobenzene	114		9.894					ND	
61 n-Butanol	56		10.010					ND	
145 Ethyl acrylate	55		10.253					ND	
62 Trichloroethene	95		10.271					ND	
64 Methylcyclohexane	83		10.509					ND	
65 Methyl methacrylate	41		10.551					ND	
63 1,2-Dichloropropane	63		10.582					ND	
68 1,4-Dioxane	88		10.697					ND	
69 Dibromomethane	93		10.770					ND	
70 Dichlorobromomethane	83		10.904					ND	
71 2-Chloroethyl vinyl ether	63		11.172					ND	
72 2-Nitropropane	43		11.178					ND	
74 Epichlorohydrin	57		11.342					ND	
73 cis-1,3-Dichloropropene	75		11.446					ND	
75 4-Methyl-2-pentanone (MIBK	43		11.555					ND	
76 Toluene	92		11.884					ND	
77 Ethyl methacrylate	69		12.115					ND	
78 trans-1,3-Dichloropropene	75		12.145					ND	
79 1,1,2-Trichloroethane	83		12.425					ND	
80 Tetrachloroethene	166		12.632					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
83 2-Hexanone	43		12.638					ND	
82 1,3-Dichloropropane	76		12.668					ND	
149 n-Butyl acetate	43		12.735					ND	
81 Chlorodibromomethane	129		13.015					ND	
85 Ethylene Dibromide	107		13.210					ND	
84 3-Chlorobenzotrifluoride	180		13.612					ND	
139 1-Chlorohexane	55		13.624					ND	
86 4-Chlorobenzotrifluoride	180		13.678					ND	
87 Chlorobenzene	112		13.800					ND	
89 Ethylbenzene	91		13.867					ND	
88 1,1,1,2-Tetrachloroethane	131		13.885					ND	
90 m-Xylene & p-Xylene	106		14.007					ND	
93 o-Xylene	106		14.560					ND	
94 Styrene	104		14.579					ND	
91 2-Chlorobenzotrifluoride	180		14.859					ND	
92 Bromoform	173		14.931					ND	
95 Isopropylbenzene	105		14.998					ND	
96 Cyclohexanone	55		15.248					ND	
97 1,1,2,2-Tetrachloroethane	83		15.424					ND	
98 trans-1,4-Dichloro-2-buten	53		15.479					ND	
101 1,2,3-Trichloropropane	110		15.515					ND	
100 Bromobenzene	156		15.522					ND	
99 N-Propylbenzene	91		15.534					ND	
103 2-Chlorotoluene	126		15.722					ND	
102 1,3,5-Trimethylbenzene	105		15.728					ND	
104 3-Chlorotoluene	126		15.789					ND	
105 4-Chlorotoluene	126		15.850					ND	
106 tert-Butylbenzene	134		16.166					ND	
107 1,2,4-Trimethylbenzene	105		16.227					ND	
108 Pentachloroethane	167		16.276					ND	
109 sec-Butylbenzene	105		16.434					ND	
112 4-Isopropyltoluene	119		16.592					ND	
110 1,3-Dichlorobenzene	146		16.677					ND	
111 1,4-Dichlorobenzene	146		16.781					ND	
113 1,2,3-Trimethylbenzene	105		16.787					ND	
114 Dicyclopentadiene	66		16.805					ND	
143 Benzyl chloride	126		16.933					ND	
115 n-Butylbenzene	91		17.103					ND	
116 1,2-Dichlorobenzene	146		17.267					ND	
117 1,2-Dibromo-3-Chloropropan	75		18.241					ND	
118 1,3,5-Trichlorobenzene	180		18.460					ND	
119 1,2,4-Trichlorobenzene	180		19.318					ND	
120 Hexachlorobutadiene	225		19.470					ND	
121 Naphthalene	128		19.713					ND	
122 1,2,3-Trichlorobenzene	180		20.072					ND	
142 2-Methylnaphthalene	142		21.526					ND	
136 Propene oxide TIC	1		0.000					ND	
138 Ethylene oxide TIC	1		0.000					ND	
137 1-Bromopropane TIC	1		0.000					ND	
134 Halothane	1		0.000					ND	
135 Pentachloroethane TIC	1		0.000					ND	
S 125 Total BTEX	1		30.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
S 126 Xylenes, Total	1		30.000					ND	
S 123 1,2-Dichloroethene, Total	1		30.000					ND	
S 124 1,3-Dichloropropene, Total	1		30.000					ND	
T 150 1-Chloro-1-fluoroethane TI	47		5.300					ND	
T 130 Bromoethane TIC	1		0.000					ND	
T 129 bis(chloromethyl)ether TIC	1		0.000					ND	
T 131 1-Bromopropane	1		0.000					ND	
T 133 Aziridine TIC	1		0.000					ND	
T 132 tert-amyl alcohol TIC	1		0.000					ND	
T 7 Ethylene oxide	1		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 128 Hexachloroethane TIC	201		0.000					ND	
T 127 Ethanol TIC	45		0.000					ND	

Reagents:

P 8260 IS_00173	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00197	Amount Added: 1.25	Units: uL	Run Reagent

Report Date: 14-Oct-2016 23:34:37 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57299.b\P1418.D

Injection Date: 14-Oct-2016 23:05:30 Instrument ID: HP5973P Operator ID: SY

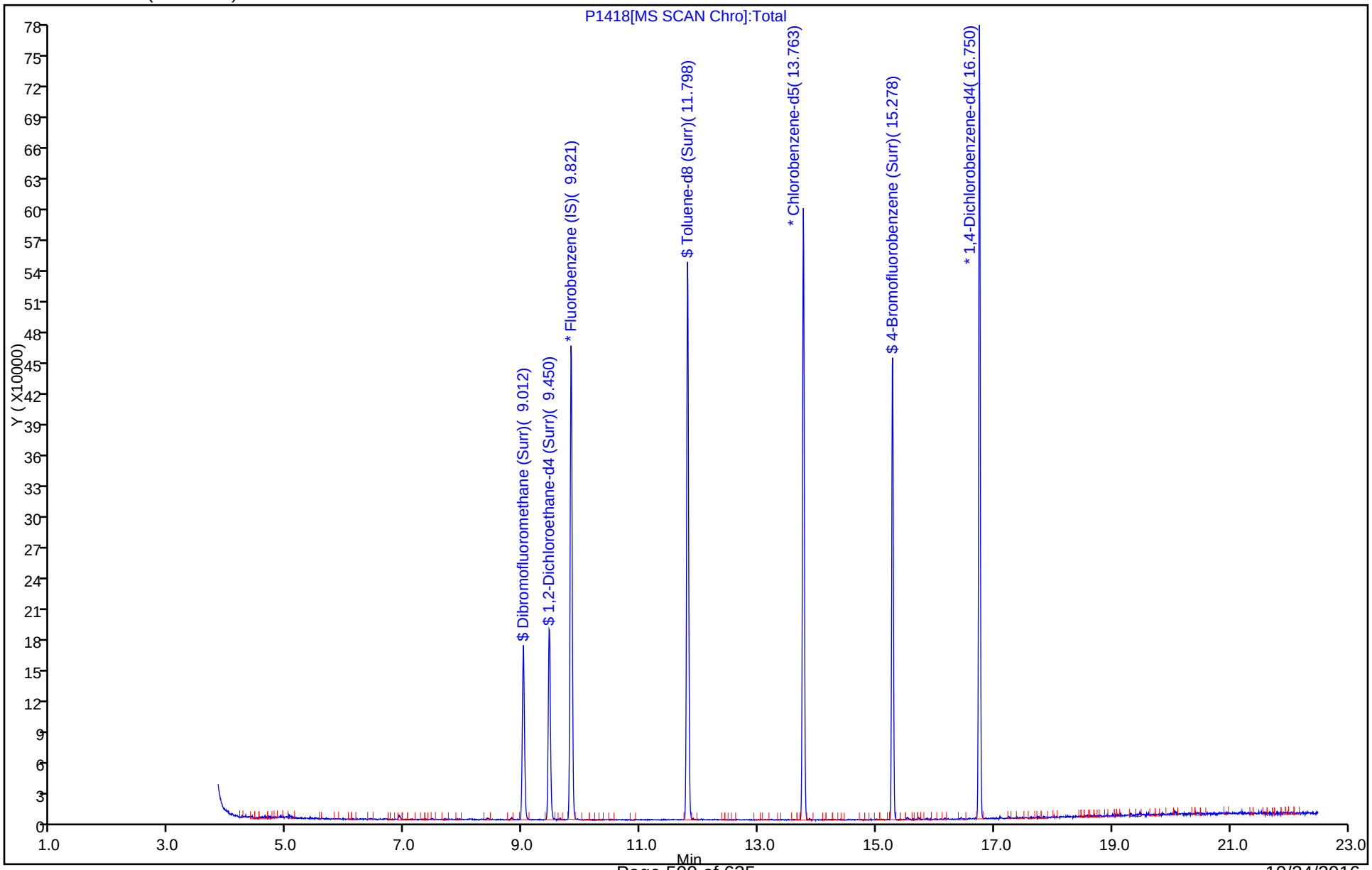
Lims ID: MB Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 6

Method: P-8260H2O Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Recovery Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57299.b\P1418.D				
Lims ID:	MB				
Client ID:					
Sample Type:	MB				
Inject. Date:	14-Oct-2016 23:05:30	ALS Bottle#:	6	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	MB				
Misc. Info.:	480-0057299-006				
Operator ID:	SY	Instrument ID:	HP5973P		

Method:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57299.b\P-8260H2O.m		
Limit Group:	MV - 8260C ICAL		
Last Update:	14-Oct-2016 23:34:35	Calib Date:	15-Sep-2016 21:21:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D		

Column 1 :	ZB-624 (0.25 mm)	Det: MS SCAN
Process Host:	XAWRK008	

First Level Reviewer: youngmans Date: 14-Oct-2016 23:34:35

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	27.8	111.10
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	26.8	107.24
$ 5 Toluene-d8 (Surr)	25.0	24.4	97.78
$ 6 4-Bromofluorobenzene (Surr)	25.0	25.1	100.21

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-107471-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 480-325847/6
Matrix: Water
Lab File ID: N8916.D
Analysis Method: 8260C
Date Collected:
Sample wt/vol: 5(mL)
Date Analyzed: 10/15/2016 19:23
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ZB-624 (20) ID: 0.18(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 325847
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.: 480-107471-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-325847/6

Matrix: Water | Lab File ID: N8916.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2016 19:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 325847 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
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)	111		77-120
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8916.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 15-Oct-2016 19:23:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0057315-006
Operator ID: NEA Instrument ID: HP5973N

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 15-Oct-2016 19:44:24 Calib Date: 06-Oct-2016 06:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: archern Date: 15-Oct-2016 19:44:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.528	5.534	-0.006	99	101549	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.527	8.527	0.000	85	424606	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.906	10.906	0.000	94	231340	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.932	4.932	0.000	93	148005	25.0	25.7	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.242	5.242	0.000	0	174363	25.0	27.9	
$ 6 Toluene-d8 (Surr)	98	7.043	7.043	0.000	93	508281	25.0	24.6	
$ 7 4-Bromofluorobenzene (Surr	174	9.774	9.774	0.000	96	183585	25.0	24.3	
11 Dichlorodifluoromethane	85		1.379					ND	
12 Chlorodifluoromethane	51		1.403					ND	
13 Chloromethane	50		1.525					ND	
14 Vinyl chloride	62		1.640					ND	
144 Butadiene	54		1.659					ND	
15 Bromomethane	94		1.926					ND	
16 Chloroethane	64		2.042					ND	
17 Dichlorofluoromethane	67		2.255					ND	
18 Trichlorofluoromethane	101		2.285					ND	
141 Ethanol	45		2.541					ND	
19 Ethyl ether	59		2.559					ND	
81 Propene oxide	58		2.638					ND	
20 Acrolein	56		2.717					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.778					ND	
22 1,1-Dichloroethene	96		2.778					ND	
23 Acetone	43		2.869					ND	
24 Iodomethane	142		2.924					ND	
25 Carbon disulfide	76		2.973					ND	
26 Isopropyl alcohol	45		3.046					ND	
27 3-Chloro-1-propene	41		3.137					ND	
29 Acetonitrile	40		3.161					ND	
28 Methyl acetate	43		3.174					ND	
30 Methylene Chloride	84		3.271					ND	
31 2-Methyl-2-propanol	59		3.423					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
32 Methyl tert-butyl ether	73		3.502					ND	
33 trans-1,2-Dichloroethene	96		3.514					ND	
34 Acrylonitrile	53		3.532					ND	
35 Hexane	57		3.733					ND	
36 1,1-Dichloroethane	63		3.922					ND	
37 Isopropyl ether	45		3.958					ND	
39 Vinyl acetate	43		3.970					ND	
38 2-Chloro-1,3-butadiene	53		3.995					ND	
40 1,1-Dimethoxyethane	75		4.019					ND	
41 Tert-butyl ethyl ether	59		4.293					ND	
42 2,2-Dichloropropane	77		4.445					ND	
43 cis-1,2-Dichloroethene	96		4.469					ND	
44 2-Butanone (MEK)	43		4.494					ND	
45 Ethyl acetate	43		4.542					ND	
46 Propionitrile	54		4.579					ND	
47 Chlorobromomethane	128		4.700					ND	
48 Methacrylonitrile	67		4.701					ND	
49 Tetrahydrofuran	42		4.731					ND	
50 Chloroform	83		4.780					ND	
51 1,1,1-Trichloroethane	97		4.907					ND	
52 Cyclohexane	56		4.938					ND	
53 Carbon tetrachloride	117		5.059					ND	
54 1,1-Dichloropropene	75		5.066					ND	
56 Isobutyl alcohol	43		5.242					ND	
55 Benzene	78		5.260					ND	
146 Isooctane	57		5.291					ND	
57 1,2-Dichloroethane	62		5.309					ND	
140 t-Amyl alcohol	59		5.309					ND	
58 Tert-amyl methyl ether	73		5.352					ND	
59 n-Heptane	43		5.467					ND	
1 1,4-Difluorobenzene	114		5.637					ND	
61 n-Butanol	56		5.863					ND	
60 Trichloroethene	95		5.875					ND	
145 Ethyl acrylate	55		5.990					ND	
62 Methylcyclohexane	83		6.015					ND	
63 1,2-Dichloropropane	63		6.100					ND	
65 Methyl methacrylate	41		6.203					ND	
64 Dibromomethane	93		6.234					ND	
66 1,4-Dioxane	88		6.240					ND	
67 Dichlorobromomethane	83		6.386					ND	
68 2-Nitropropane	43		6.617					ND	
69 2-Chloroethyl vinyl ether	63		6.665					ND	
70 Epichlorohydrin	57		6.745					ND	
71 cis-1,3-Dichloropropene	75		6.805					ND	
72 4-Methyl-2-pentanone (MIBK	58		6.945					ND	
73 Toluene	92		7.110					ND	
74 2-Methylthiophene	97		7.244					ND	
75 trans-1,3-Dichloropropene	75		7.371					ND	
76 3-Methylthiophene	97		7.408					ND	
77 Ethyl methacrylate	69		7.426					ND	
78 1,1,2-Trichloroethane	83		7.554					ND	
79 Tetrachloroethene	166		7.651					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
80 1,3-Dichloropropane	76		7.718					ND	
82 2-Hexanone	43		7.785					ND	
149 n-Butyl acetate	43		7.907					ND	
83 Chlorodibromomethane	129		7.955					ND	
84 Ethylene Dibromide	107		8.065					ND	
139 1-Chlorohexane	55		8.509					ND	
86 3-Chlorobenzotrifluoride	180		8.527					ND	
85 Chlorobenzene	112		8.557					ND	
87 4-Chlorobenzotrifluoride	180		8.588					ND	
89 1,1,1,2-Tetrachloroethane	131		8.649					ND	
88 Ethylbenzene	91		8.655					ND	
90 m-Xylene & p-Xylene	106		8.776					ND	
91 o-Xylene	106		9.202					ND	
92 Styrene	104		9.227					ND	
93 Bromoform	173		9.458					ND	
94 2-Chlorobenzotrifluoride	180		9.501					ND	
95 Isopropylbenzene	105		9.586					ND	
96 Cyclohexanone	55		9.726					ND	
97 Bromobenzene	156		9.920					ND	
98 1,1,2,2-Tetrachloroethane	83		9.957					ND	
99 1,2,3-Trichloropropane	110		9.993					ND	
101 trans-1,4-Dichloro-2-buten	53		10.005					ND	
100 N-Propylbenzene	91		10.011					ND	
102 2-Chlorotoluene	126		10.109					ND	
103 3-Chlorotoluene	126		10.170					ND	
104 1,3,5-Trimethylbenzene	105		10.188					ND	
105 4-Chlorotoluene	91		10.218					ND	
106 tert-Butylbenzene	134		10.510					ND	
107 Pentachloroethane	167		10.553					ND	
108 1,2,4-Trimethylbenzene	105		10.559					ND	
109 sec-Butylbenzene	105		10.717					ND	
110 1,3-Dichlorobenzene	146		10.845					ND	
111 4-Isopropyltoluene	119		10.857					ND	
112 Dicyclopentadiene	66		10.924					ND	
113 1,4-Dichlorobenzene	146		10.930					ND	
114 1,2,3-Trimethylbenzene	105		10.961					ND	
143 Benzyl chloride	126		11.070					ND	
115 n-Butylbenzene	91		11.240					ND	
116 1,2-Dichlorobenzene	146		11.277					ND	
117 1,2-Dibromo-3-Chloropropan	75		11.995					ND	
118 1,3,5-Trichlorobenzene	180		12.153					ND	
119 1,2,4-Trichlorobenzene	180		12.688					ND	
120 Hexachlorobutadiene	225		12.810					ND	
121 Naphthalene	128		12.895					ND	
122 1,2,3-Trichlorobenzene	180		13.102					ND	
142 2-Methylnaphthalene	142		13.814					ND	
138 1-Bromopropane	1		0.000					ND	
133 Halothane	1		0.000					ND	
131 Aziridine TIC	1		0.000					ND	
136 Ethylene oxide TIC	1		0.000					ND	
S 123 1,3-Dichloropropene, Total	1		30.000					ND	
S 124 1,2-Dichloroethene, Total	1		30.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
S 125 Total BTEX	1		30.000					ND	
S 126 Xylenes, Total	1		30.000					ND	
T 150 1-Chloro-1-fluoroethane TI	47		2.000					ND	
T 10 Ethylene oxide	1		0.000					ND	
T 127 Ethanol TIC	1		0.000					ND	
T 129 tert-amyl alcohol TIC	1		0.000					ND	
T 128 Hexachloroethane TIC	117		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 134 bis(chloromethyl)ether TIC	1		0.000					ND	
T 135 1-Bromopropane TIC	1		0.000					ND	
T 132 Bromoethane TIC	1		0.000					ND	
T 137 Pentachloroethane TIC	1		0.000					ND	
T 130 Propene oxide TIC	1		0.000					ND	

Reagents:

N_8260_Surr_00211	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00038	Amount Added: 1.00	Units: uL	Run Reagent

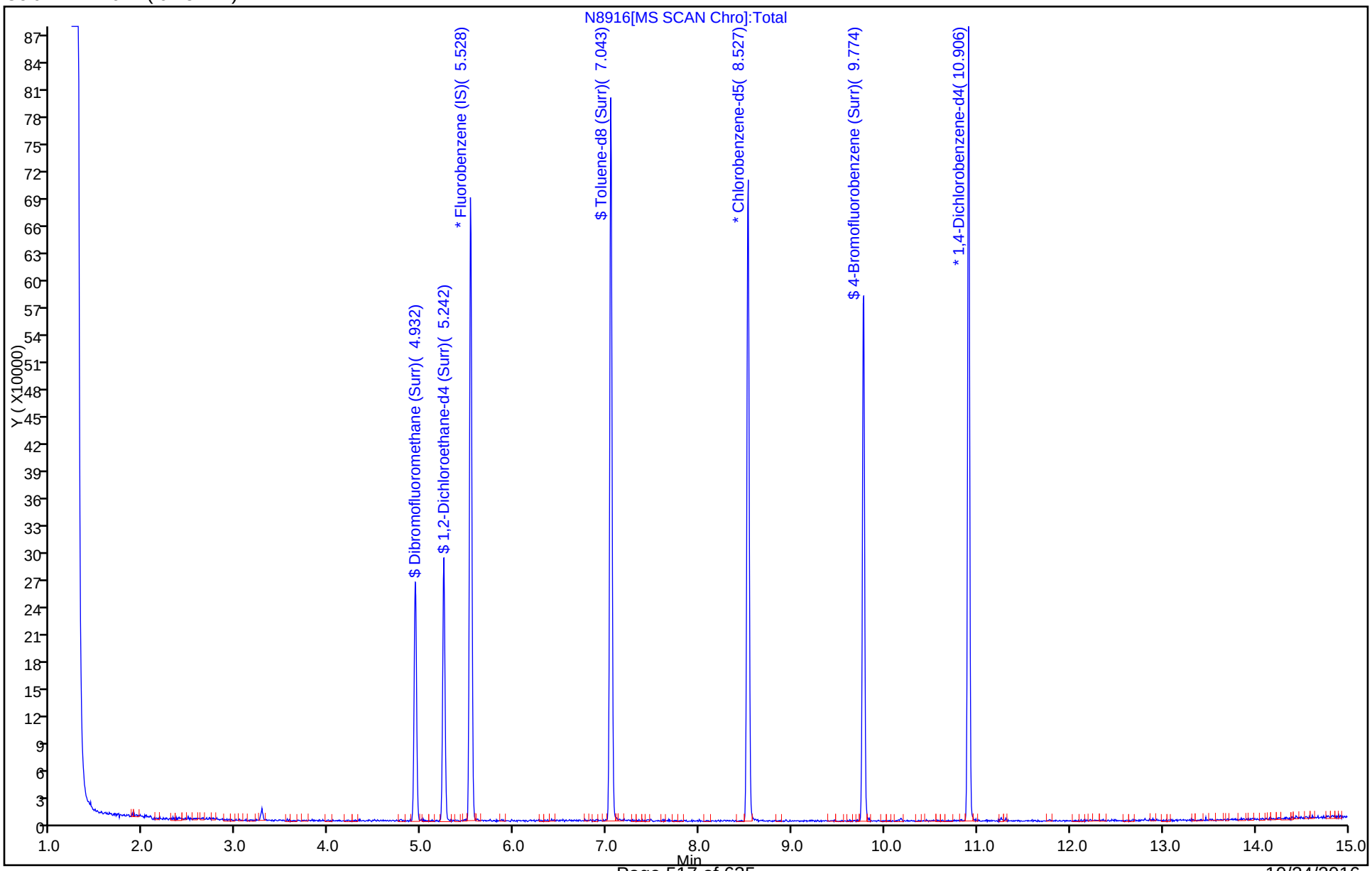
Report Date: 15-Oct-2016 19:44:25 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8916.D

Injection Date:	15-Oct-2016 19:23:30	Instrument ID:	HP5973N	Operator ID:	NEA
Lims ID:	MB			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Recovery Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8916.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 15-Oct-2016 19:23:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0057315-006
Operator ID: NEA Instrument ID: HP5973N

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 15-Oct-2016 19:44:24 Calib Date: 06-Oct-2016 06:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: archern Date: 15-Oct-2016 19:44:24

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	25.7	102.84
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	27.9	111.48
$ 6 Toluene-d8 (Surr)	25.0	24.6	98.23
$ 7 4-Bromofluorobenzene (Surr)	25.0	24.3	97.23

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1
SDG No.:
Client Sample ID: | Lab Sample ID: MB 480-325887/6
Matrix: Water | Lab File ID: N8944.D
Analysis Method: 8260C | Date Collected:
Sample wt/vol: 5(mL) | Date Analyzed: 10/16/2016 21:09
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 325887 | 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.: 480-107471-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-325887/6

Matrix: Water | Lab File ID: N8944.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/16/2016 21:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 325887 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
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)	116		77-120
460-00-4	4-Bromofluorobenzene (Surr)	103		73-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161016-57327.b\N8944.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 16-Oct-2016 21:09:30 ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: mb
Misc. Info.: 480-0057327-006
Operator ID: JG Instrument ID: HP5973N

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20161016-57327.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Oct-2016 22:57:46 Calib Date: 06-Oct-2016 06:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK014

First Level Reviewer: gentilej Date: 16-Oct-2016 22:57:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.534	5.528	0.006	99	95341	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.527	8.527	0.000	85	401281	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.906	10.906	0.000	94	236450	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.938	4.932	0.006	92	149149	25.0	27.6	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.242	5.242	0.000	0	170978	25.0	29.1	
$ 6 Toluene-d8 (Surr)	98	7.043	7.043	0.000	93	492389	25.0	25.2	
$ 7 4-Bromofluorobenzene (Surr	174	9.774	9.774	0.000	95	184481	25.0	25.8	
11 Dichlorodifluoromethane	85		1.379					ND	
12 Chlorodifluoromethane	51		1.403					ND	
13 Chloromethane	50		1.525					ND	
14 Vinyl chloride	62		1.640					ND	
144 Butadiene	54		1.659					ND	
15 Bromomethane	94		1.932					ND	
16 Chloroethane	64		2.042					ND	
17 Dichlorofluoromethane	67		2.261					ND	
18 Trichlorofluoromethane	101		2.285					ND	
141 Ethanol	45		2.541					ND	
19 Ethyl ether	59		2.559					ND	
81 Propene oxide	58		2.638					ND	
20 Acrolein	56		2.717					ND	
22 1,1-Dichloroethene	96		2.778					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.790					ND	
23 Acetone	43		2.869					ND	
24 Iodomethane	142		2.924					ND	
25 Carbon disulfide	76		2.973					ND	
26 Isopropyl alcohol	45		3.052					ND	
27 3-Chloro-1-propene	41		3.137					ND	
29 Acetonitrile	40		3.161					ND	
28 Methyl acetate	43		3.174					ND	
30 Methylene Chloride	84		3.277					ND	
31 2-Methyl-2-propanol	59		3.423					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
32 Methyl tert-butyl ether	73		3.502					ND	
33 trans-1,2-Dichloroethene	96		3.514					ND	
34 Acrylonitrile	53		3.532					ND	
35 Hexane	57		3.733					ND	
36 1,1-Dichloroethane	63		3.922					ND	
37 Isopropyl ether	45		3.958					ND	
39 Vinyl acetate	43		3.977					ND	
38 2-Chloro-1,3-butadiene	53		3.995					ND	
40 1,1-Dimethoxyethane	75		4.019					ND	
41 Tert-butyl ethyl ether	59		4.293					ND	
42 2,2-Dichloropropane	77		4.445					ND	
43 cis-1,2-Dichloroethene	96		4.469					ND	
44 2-Butanone (MEK)	43		4.494					ND	
45 Ethyl acetate	43		4.542					ND	
46 Propionitrile	54		4.579					ND	
48 Methacrylonitrile	67		4.701					ND	
47 Chlorobromomethane	128		4.707					ND	
49 Tetrahydrofuran	42		4.737					ND	
50 Chloroform	83		4.780					ND	
51 1,1,1-Trichloroethane	97		4.913					ND	
52 Cyclohexane	56		4.938					ND	
53 Carbon tetrachloride	117		5.059					ND	
54 1,1-Dichloropropene	75		5.066					ND	
56 Isobutyl alcohol	43		5.242					ND	
55 Benzene	78		5.260					ND	
146 Isooctane	57		5.291					ND	
57 1,2-Dichloroethane	62		5.315					ND	
140 t-Amyl alcohol	59		5.315					ND	
58 Tert-amyl methyl ether	73		5.351					ND	
59 n-Heptane	43		5.473					ND	
1 1,4-Difluorobenzene	114		5.637					ND	
61 n-Butanol	56		5.869					ND	
60 Trichloroethene	95		5.875					ND	
145 Ethyl acrylate	55		5.990					ND	
62 Methylcyclohexane	83		6.021					ND	
63 1,2-Dichloropropane	63		6.100					ND	
65 Methyl methacrylate	41		6.203					ND	
64 Dibromomethane	93		6.234					ND	
66 1,4-Dioxane	88		6.246					ND	
67 Dichlorobromomethane	83		6.386					ND	
68 2-Nitropropane	43		6.617					ND	
69 2-Chloroethyl vinyl ether	63		6.665					ND	
70 Epichlorohydrin	57		6.745					ND	
71 cis-1,3-Dichloropropene	75		6.805					ND	
72 4-Methyl-2-pentanone (MIBK	58		6.951					ND	
73 Toluene	92		7.110					ND	
74 2-Methylthiophene	97		7.243					ND	
75 trans-1,3-Dichloropropene	75		7.371					ND	
76 3-Methylthiophene	97		7.408					ND	
77 Ethyl methacrylate	69		7.426					ND	
78 1,1,2-Trichloroethane	83		7.560					ND	
79 Tetrachloroethene	166		7.651					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
80 1,3-Dichloropropane	76		7.718					ND	
82 2-Hexanone	43		7.791					ND	
149 n-Butyl acetate	43		7.907					ND	
83 Chlorodibromomethane	129		7.961					ND	
84 Ethylene Dibromide	107		8.065					ND	
139 1-Chlorohexane	55		8.509					ND	
86 3-Chlorobenzotrifluoride	180		8.527					ND	
85 Chlorobenzene	112		8.557					ND	
87 4-Chlorobenzotrifluoride	180		8.588					ND	
89 1,1,1,2-Tetrachloroethane	131		8.649					ND	
88 Ethylbenzene	91		8.655					ND	
90 m-Xylene & p-Xylene	106		8.776					ND	
91 o-Xylene	106		9.202					ND	
92 Styrene	104		9.227					ND	
93 Bromoform	173		9.458					ND	
94 2-Chlorobenzotrifluoride	180		9.500					ND	
95 Isopropylbenzene	105		9.586					ND	
96 Cyclohexanone	55		9.726					ND	
97 Bromobenzene	156		9.920					ND	
98 1,1,2,2-Tetrachloroethane	83		9.957					ND	
99 1,2,3-Trichloropropane	110		9.993					ND	
101 trans-1,4-Dichloro-2-buten	53		10.005					ND	
100 N-Propylbenzene	91		10.011					ND	
102 2-Chlorotoluene	126		10.109					ND	
103 3-Chlorotoluene	126		10.176					ND	
104 1,3,5-Trimethylbenzene	105		10.188					ND	
105 4-Chlorotoluene	91		10.218					ND	
106 tert-Butylbenzene	134		10.510					ND	
107 Pentachloroethane	167		10.553					ND	
108 1,2,4-Trimethylbenzene	105		10.559					ND	
109 sec-Butylbenzene	105		10.717					ND	
110 1,3-Dichlorobenzene	146		10.845					ND	
111 4-Isopropyltoluene	119		10.857					ND	
112 Dicyclopentadiene	66		10.924					ND	
113 1,4-Dichlorobenzene	146		10.930					ND	
114 1,2,3-Trimethylbenzene	105		10.967					ND	
143 Benzyl chloride	126		11.070					ND	
115 n-Butylbenzene	91		11.240					ND	
116 1,2-Dichlorobenzene	146		11.277					ND	
117 1,2-Dibromo-3-Chloropropan	75		11.995					ND	
118 1,3,5-Trichlorobenzene	180		12.153					ND	
119 1,2,4-Trichlorobenzene	180		12.688					ND	
120 Hexachlorobutadiene	225		12.810					ND	
121 Naphthalene	128		12.895					ND	
122 1,2,3-Trichlorobenzene	180		13.102					ND	
142 2-Methylnaphthalene	142		13.814					ND	
138 1-Bromopropane	1		0.000					ND	
133 Halothane	1		0.000					ND	
131 Aziridine TIC	1		0.000					ND	
136 Ethylene oxide TIC	1		0.000					ND	
S 123 1,3-Dichloropropene, Total	1		30.000					ND	
S 124 1,2-Dichloroethene, Total	1		30.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
S 125 Total BTEX	1		30.000					ND	
S 126 Xylenes, Total	1		30.000					ND	
T 150 1-Chloro-1-fluoroethane TI	47		2.000					ND	
T 10 Ethylene oxide	1		0.000					ND	
T 127 Ethanol TIC	1		0.000					ND	
T 129 tert-amyl alcohol TIC	1		0.000					ND	
T 128 Hexachloroethane TIC	117		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 134 bis(chloromethyl)ether TIC	1		0.000					ND	
T 135 1-Bromopropane TIC	1		0.000					ND	
T 132 Bromoethane TIC	1		0.000					ND	
T 137 Pentachloroethane TIC	1		0.000					ND	
T 130 Propene oxide TIC	1		0.000					ND	

Reagents:

N_8260_Surr_00211	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00038	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 16-Oct-2016 22:57:47 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161016-57327.b\N8944.D

Injection Date: 16-Oct-2016 21:09:30 Instrument ID: HP5973N Operator ID: JG

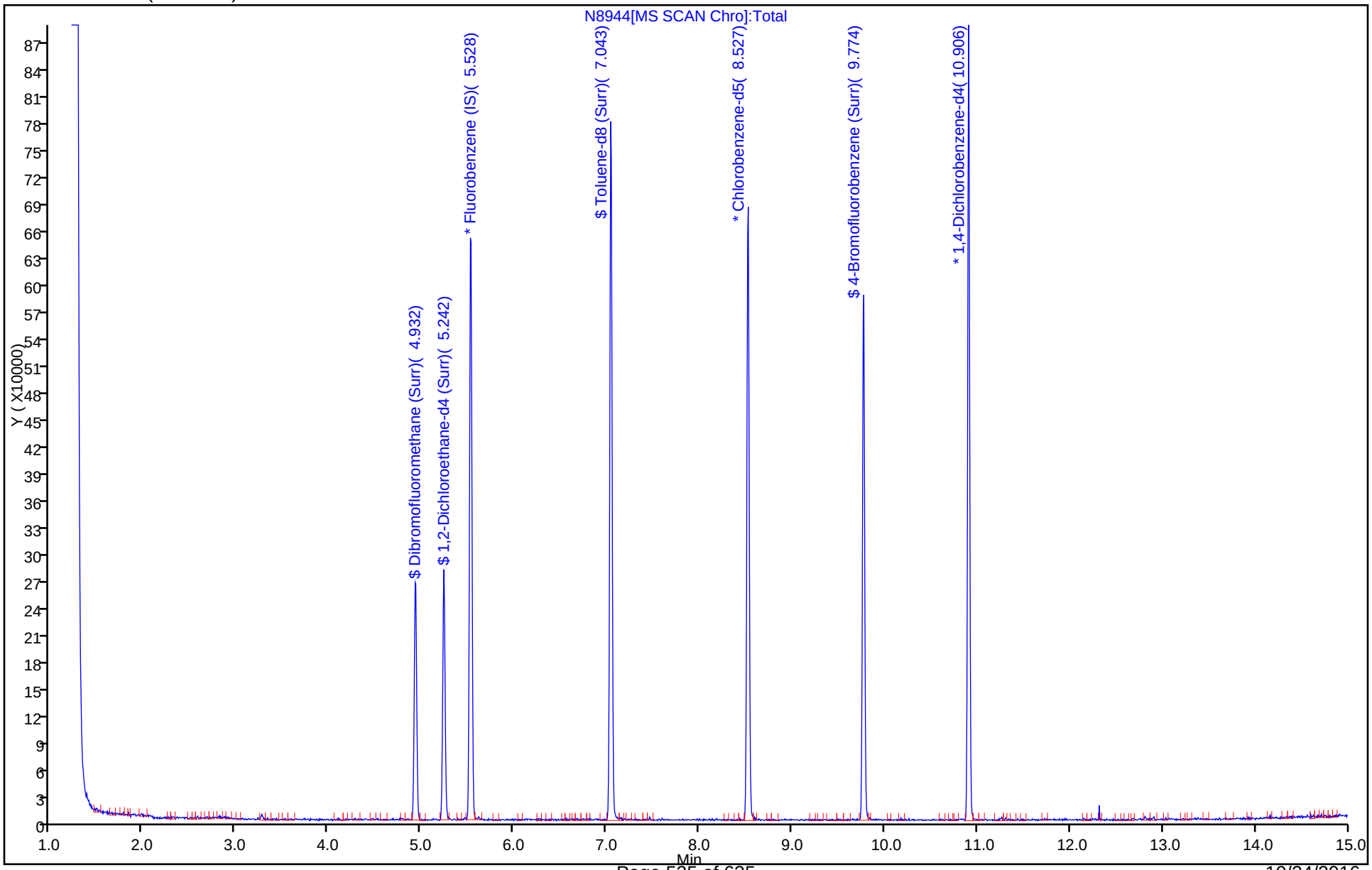
Lims ID: MB Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 8

Method: N-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Recovery Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161016-57327.b\N8944.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 16-Oct-2016 21:09:30 ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: mb
Misc. Info.: 480-0057327-006
Operator ID: JG Instrument ID: HP5973N

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20161016-57327.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Oct-2016 22:57:46 Calib Date: 06-Oct-2016 06:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK014

First Level Reviewer: gentilej Date: 16-Oct-2016 22:57:46

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	27.6	110.39
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	29.1	116.43
$ 6 Toluene-d8 (Surr)	25.0	25.2	100.69
$ 7 4-Bromofluorobenzene (Surr)	25.0	25.8	103.38

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-325955/7

Matrix: Water | Lab File ID: N8972.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/17/2016 10:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 325955 | 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.: 480-107471-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-325955/7

Matrix: Water | Lab File ID: N8972.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/17/2016 10:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 325955 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
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)	116		77-120
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161017-57336.b\N8972.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 17-Oct-2016 10:21:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: mb
Misc. Info.: 480-0057336-007
Operator ID: NEA Instrument ID: HP5973N

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20161017-57336.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 17-Oct-2016 10:39:59 Calib Date: 06-Oct-2016 06:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: archern Date: 17-Oct-2016 10:39:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.528	5.534	-0.006	99	95704	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.527	8.527	0.000	85	401184	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.906	10.906	0.000	94	225297	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.932	4.932	0.000	92	149668	25.0	27.6	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.242	5.242	0.000	0	171415	25.0	29.1	
$ 6 Toluene-d8 (Surr)	98	7.043	7.049	-0.006	93	495250	25.0	25.3	
$ 7 4-Bromofluorobenzene (Surr	174	9.774	9.774	0.000	95	176458	25.0	24.7	
11 Dichlorodifluoromethane	85		1.379					ND	
12 Chlorodifluoromethane	51		1.403					ND	
13 Chloromethane	50		1.525					ND	
14 Vinyl chloride	62		1.640					ND	
144 Butadiene	54		1.659					ND	
15 Bromomethane	94		1.932					ND	
16 Chloroethane	64		2.042					ND	
17 Dichlorofluoromethane	67		2.261					ND	
18 Trichlorofluoromethane	101		2.279					ND	
141 Ethanol	45		2.535					ND	
19 Ethyl ether	59		2.565					ND	
81 Propene oxide	58		2.638					ND	
20 Acrolein	56		2.717					ND	
22 1,1-Dichloroethene	96		2.778					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.784					ND	
23 Acetone	43		2.869					ND	
24 Iodomethane	142		2.930					ND	
25 Carbon disulfide	76		2.973					ND	
26 Isopropyl alcohol	45		3.052					ND	
27 3-Chloro-1-propene	41		3.137					ND	
29 Acetonitrile	40		3.161					ND	
28 Methyl acetate	43		3.180					ND	
30 Methylene Chloride	84		3.271					ND	
31 2-Methyl-2-propanol	59		3.423					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
32 Methyl tert-butyl ether	73		3.508					ND	
33 trans-1,2-Dichloroethene	96		3.514					ND	
34 Acrylonitrile	53		3.532					ND	
35 Hexane	57		3.733					ND	
36 1,1-Dichloroethane	63		3.922					ND	
37 Isopropyl ether	45		3.958					ND	
39 Vinyl acetate	43		3.976					ND	
38 2-Chloro-1,3-butadiene	53		3.995					ND	
40 1,1-Dimethoxyethane	75		4.025					ND	
41 Tert-butyl ethyl ether	59		4.299					ND	
42 2,2-Dichloropropane	77		4.445					ND	
43 cis-1,2-Dichloroethene	96		4.475					ND	
44 2-Butanone (MEK)	43		4.494					ND	
45 Ethyl acetate	43		4.542					ND	
46 Propionitrile	54		4.579					ND	
48 Methacrylonitrile	67		4.700					ND	
47 Chlorobromomethane	128		4.706					ND	
49 Tetrahydrofuran	42		4.737					ND	
50 Chloroform	83		4.779					ND	
51 1,1,1-Trichloroethane	97		4.913					ND	
52 Cyclohexane	56		4.938					ND	
53 Carbon tetrachloride	117		5.059					ND	
54 1,1-Dichloropropene	75		5.065					ND	
56 Isobutyl alcohol	43		5.248					ND	
55 Benzene	78		5.266					ND	
146 Isooctane	57		5.291					ND	
57 1,2-Dichloroethane	62		5.315					ND	
140 t-Amyl alcohol	59		5.315					ND	
58 Tert-amyl methyl ether	73		5.351					ND	
59 n-Heptane	43		5.473					ND	
1 1,4-Difluorobenzene	114		5.637					ND	
61 n-Butanol	56		5.862					ND	
60 Trichloroethene	95		5.875					ND	
145 Ethyl acrylate	55		5.990					ND	
62 Methylcyclohexane	83		6.021					ND	
63 1,2-Dichloropropane	63		6.106					ND	
65 Methyl methacrylate	41		6.209					ND	
64 Dibromomethane	93		6.227					ND	
66 1,4-Dioxane	88		6.240					ND	
67 Dichlorobromomethane	83		6.386					ND	
68 2-Nitropropane	43		6.623					ND	
69 2-Chloroethyl vinyl ether	63		6.665					ND	
70 Epichlorohydrin	57		6.745					ND	
71 cis-1,3-Dichloropropene	75		6.805					ND	
72 4-Methyl-2-pentanone (MIBK	58		6.951					ND	
73 Toluene	92		7.110					ND	
74 2-Methylthiophene	97		7.243					ND	
75 trans-1,3-Dichloropropene	75		7.371					ND	
76 3-Methylthiophene	97		7.408					ND	
77 Ethyl methacrylate	69		7.426					ND	
78 1,1,2-Trichloroethane	83		7.554					ND	
79 Tetrachloroethene	166		7.651					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
80 1,3-Dichloropropane	76		7.718					ND	
82 2-Hexanone	43		7.791					ND	
149 n-Butyl acetate	43		7.907					ND	
83 Chlorodibromomethane	129		7.955					ND	
84 Ethylene Dibromide	107		8.065					ND	
139 1-Chlorohexane	55		8.515					ND	
86 3-Chlorobenzotrifluoride	180		8.527					ND	
85 Chlorobenzene	112		8.557					ND	
87 4-Chlorobenzotrifluoride	180		8.588					ND	
89 1,1,1,2-Tetrachloroethane	131		8.649					ND	
88 Ethylbenzene	91		8.655					ND	
90 m-Xylene & p-Xylene	106		8.776					ND	
91 o-Xylene	106		9.202					ND	
92 Styrene	104		9.227					ND	
93 Bromoform	173		9.458					ND	
94 2-Chlorobenzotrifluoride	180		9.500					ND	
95 Isopropylbenzene	105		9.586					ND	
96 Cyclohexanone	55		9.725					ND	
97 Bromobenzene	156		9.920					ND	
98 1,1,2,2-Tetrachloroethane	83		9.957					ND	
99 1,2,3-Trichloropropane	110		9.993					ND	
101 trans-1,4-Dichloro-2-buten	53		10.005					ND	
100 N-Propylbenzene	91		10.011					ND	
102 2-Chlorotoluene	126		10.109					ND	
103 3-Chlorotoluene	126		10.170					ND	
104 1,3,5-Trimethylbenzene	105		10.188					ND	
105 4-Chlorotoluene	91		10.218					ND	
106 tert-Butylbenzene	134		10.510					ND	
107 Pentachloroethane	167		10.553					ND	
108 1,2,4-Trimethylbenzene	105		10.559					ND	
109 sec-Butylbenzene	105		10.717					ND	
110 1,3-Dichlorobenzene	146		10.845					ND	
111 4-Isopropyltoluene	119		10.857					ND	
112 Dicyclopentadiene	66		10.924					ND	
113 1,4-Dichlorobenzene	146		10.930					ND	
114 1,2,3-Trimethylbenzene	105		10.967					ND	
143 Benzyl chloride	126		11.070					ND	
115 n-Butylbenzene	91		11.240					ND	
116 1,2-Dichlorobenzene	146		11.277					ND	
117 1,2-Dibromo-3-Chloropropan	75		11.995					ND	
118 1,3,5-Trichlorobenzene	180		12.153					ND	
119 1,2,4-Trichlorobenzene	180		12.688					ND	
120 Hexachlorobutadiene	225		12.810					ND	
121 Naphthalene	128		12.895					ND	
122 1,2,3-Trichlorobenzene	180		13.102					ND	
142 2-Methylnaphthalene	142		13.814					ND	
133 Halothane	1		0.000					ND	
138 1-Bromopropane	1		0.000					ND	
131 Aziridine TIC	1		0.000					ND	
136 Ethylene oxide TIC	1		0.000					ND	
S 125 Total BTEX	1		30.000					ND	
S 126 Xylenes, Total	1		30.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
S 123 1,3-Dichloropropene, Total	1		30.000					ND	
S 124 1,2-Dichloroethene, Total	1		30.000					ND	
T 150 1-Chloro-1-fluoroethane TI	47		2.000					ND	
T 135 1-Bromopropane TIC	1		0.000					ND	
T 134 bis(chloromethyl)ether TIC	1		0.000					ND	
T 132 Bromoethane TIC	1		0.000					ND	
T 130 Propene oxide TIC	1		0.000					ND	
T 137 Pentachloroethane TIC	1		0.000					ND	
T 127 Ethanol TIC	1		0.000					ND	
T 10 Ethylene oxide	1		0.000					ND	
T 129 tert-amyl alcohol TIC	1		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 128 Hexachloroethane TIC	117		0.000					ND	

Reagents:

N_8260_Surr_00211	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00038	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 17-Oct-2016 10:40:00 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161017-57336.b\N8972.D

Injection Date: 17-Oct-2016 10:21:30 Instrument ID: HP5973N Operator ID: NEA

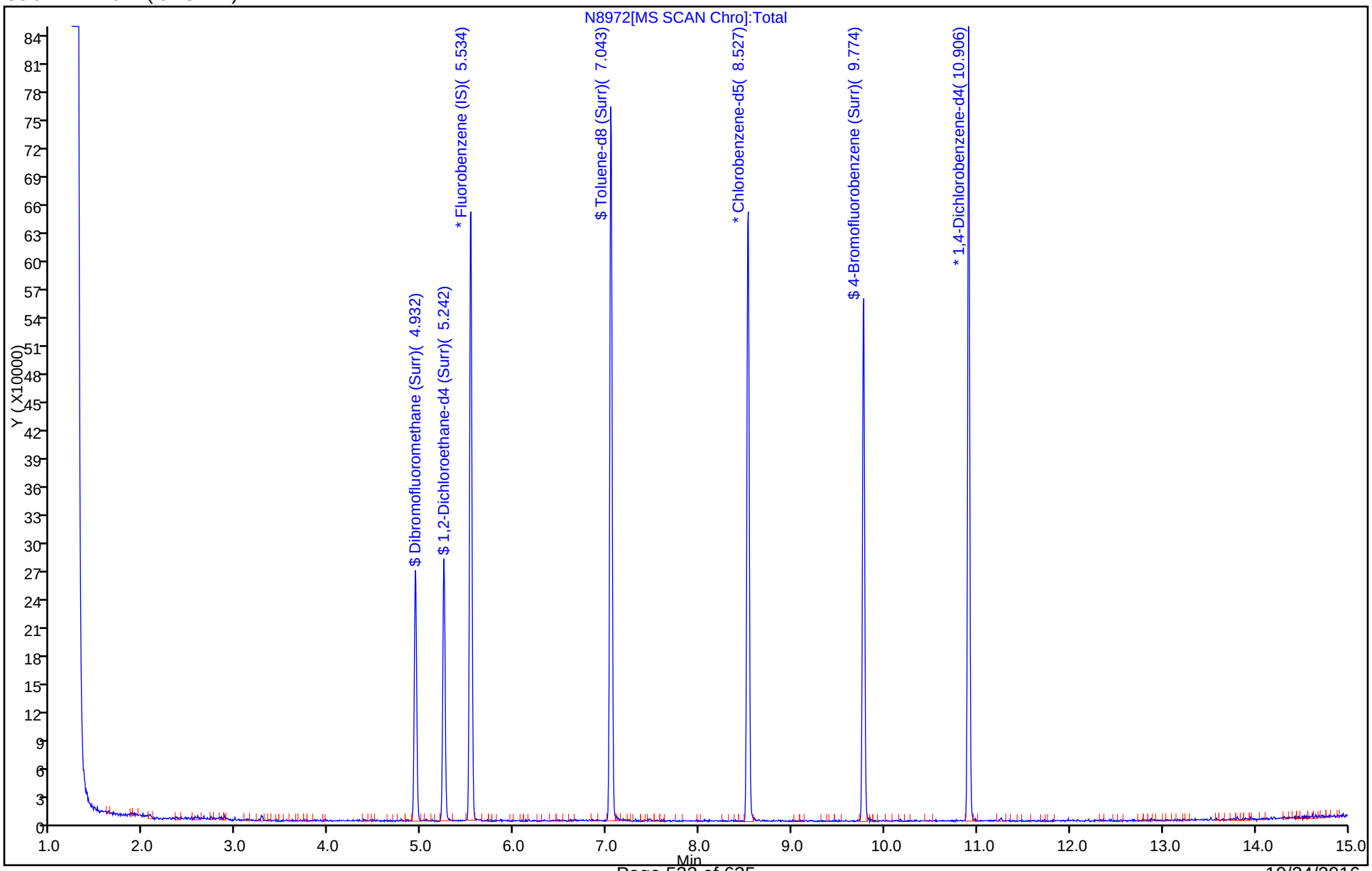
Lims ID: MB Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 7

Method: N-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Recovery Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161017-57336.b\N8972.D				
Lims ID:	MB				
Client ID:					
Sample Type:	MB				
Inject. Date:	17-Oct-2016 10:21:30	ALS Bottle#:	7	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	mb				
Misc. Info.:	480-0057336-007				
Operator ID:	NEA	Instrument ID:	HP5973N		

Method:	\\ChromNA\Buffalo\ChromData\HP5973N\20161017-57336.b\N-8260.m		
Limit Group:	MV - 8260C ICAL		
Last Update:	17-Oct-2016 10:39:59	Calib Date:	06-Oct-2016 06:56:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D		

Column 1 :	ZB-624 (0.25 mm)	Det: MS SCAN
Process Host:	XAWRK007	

First Level Reviewer: archern Date: 17-Oct-2016 10:39:59

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	27.6	110.35
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	29.1	116.29
$ 6 Toluene-d8 (Surr)	25.0	25.3	101.30
$ 7 4-Bromofluorobenzene (Surr)	25.0	24.7	98.91

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-325584/4

Matrix: Water | Lab File ID: P1392.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/14/2016 10:10

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.: 325584 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	25.3		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	20.5		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	24.3		1.0	0.31
79-00-5	1,1,2-Trichloroethane	22.8		1.0	0.23
75-34-3	1,1-Dichloroethane	22.3		1.0	0.38
75-35-4	1,1-Dichloroethene	22.7		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	21.4		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	18.5		1.0	0.39
106-93-4	1,2-Dibromoethane	23.2		1.0	0.73
95-50-1	1,2-Dichlorobenzene	22.5		1.0	0.79
107-06-2	1,2-Dichloroethane	25.3		1.0	0.21
78-87-5	1,2-Dichloropropane	22.1		1.0	0.72
541-73-1	1,3-Dichlorobenzene	22.4		1.0	0.78
106-46-7	1,4-Dichlorobenzene	22.9		1.0	0.84
78-93-3	2-Butanone (MEK)	110		10	1.3
591-78-6	2-Hexanone	109		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	99.2		5.0	2.1
67-64-1	Acetone	142		10	3.0
71-43-2	Benzene	22.2		1.0	0.41
75-27-4	Bromodichloromethane	24.4		1.0	0.39
75-25-2	Bromoform	24.5		1.0	0.26
74-83-9	Bromomethane	29.4		1.0	0.69
75-15-0	Carbon disulfide	25.9		1.0	0.19
56-23-5	Carbon tetrachloride	26.8		1.0	0.27
108-90-7	Chlorobenzene	23.5		1.0	0.75
75-00-3	Chloroethane	28.1		1.0	0.32
67-66-3	Chloroform	23.9		1.0	0.34
74-87-3	Chloromethane	19.9		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	23.1		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	23.2		1.0	0.36
110-82-7	Cyclohexane	21.2		1.0	0.18
124-48-1	Dibromochloromethane	24.8		1.0	0.32
75-71-8	Dichlorodifluoromethane	22.4		1.0	0.68
100-41-4	Ethylbenzene	23.0		1.0	0.74
98-82-8	Isopropylbenzene	20.9		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo
Job No.: 480-107471-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 480-325584/4
Matrix: Water
Lab File ID: P1392.D
Analysis Method: 8260C
Date Collected:
Sample wt/vol: 5(mL)
Date Analyzed: 10/14/2016 10:10
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.: 325584
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	99.9		2.5	1.3
1634-04-4	Methyl tert-butyl ether	23.5		1.0	0.16
108-87-2	Methylcyclohexane	20.8		1.0	0.16
75-09-2	Methylene Chloride	23.6		1.0	0.44
100-42-5	Styrene	22.4		1.0	0.73
127-18-4	Tetrachloroethene	24.3		1.0	0.36
108-88-3	Toluene	22.2		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	22.7		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	24.1		1.0	0.37
79-01-6	Trichloroethene	22.4		1.0	0.46
75-69-4	Trichlorofluoromethane	25.6		1.0	0.88
75-01-4	Vinyl chloride	21.4		1.0	0.90
1330-20-7	Xylenes, Total	44.6		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1392.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 14-Oct-2016 10:10:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0057262-004
Operator ID: RF Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Oct-2016 10:32:01 Calib Date: 15-Sep-2016 21:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: farrellr Date: 14-Oct-2016 10:32:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.828	9.821	0.007	98	115818	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.764	13.764	0.000	86	237806	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.751	16.751	0.000	95	271434	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.012	9.012	0.000	93	150851	25.0	26.4	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.456	9.456	0.000	0	93568	25.0	25.2	
$ 5 Toluene-d8 (Surr)	98	11.799	11.799	0.000	93	518232	25.0	24.5	
$ 6 4-Bromofluorobenzene (Surr	174	15.278	15.278	0.000	90	189753	25.0	26.2	
10 Dichlorodifluoromethane	85	3.981	3.981	0.000	99	216111	25.0	22.4	
11 Chloromethane	50	4.316	4.316	0.000	99	200850	25.0	19.9	
17 Vinyl chloride	62	4.535	4.529	0.006	98	156192	25.0	21.4	
144 Butadiene	54	4.553	4.547	0.006	95	180448	25.0	22.8	
12 Bromomethane	94	5.076	5.082	-0.006	94	92421	25.0	29.4	
13 Chloroethane	64	5.204	5.204	0.000	97	109599	25.0	28.1	
19 Dichlorofluoromethane	67	5.502	5.496	0.006	98	337352	25.0	26.4	
14 Trichlorofluoromethane	101	5.606	5.605	0.001	98	346049	25.0	25.6	
20 Ethyl ether	59	5.904	5.897	0.007	98	204746	25.0	22.7	
22 Acrolein	56	6.147	6.147	0.000	99	207053	125.0	93.2	
16 1,1,2-Trichloro-1,2,2-trif	101	6.250	6.244	0.006	94	217179	25.0	24.3	
25 1,1-Dichloroethene	96	6.293	6.287	0.006	93	176964	25.0	22.7	
24 Acetone	43	6.329	6.323	0.006	98	676102	125.0	142.2	
18 Iodomethane	142	6.555	6.554	0.001	99	366811	25.0	24.6	
27 Carbon disulfide	76	6.670	6.664	0.006	100	679974	25.0	25.9	
30 Methyl acetate	43	6.701	6.700	0.001	100	1246229	125.0	99.9	
28 3-Chloro-1-propene	41	6.737	6.731	0.006	89	376295	25.0	20.4	
31 Methylene Chloride	84	6.907	6.907	0.000	94	194663	25.0	23.6	
33 2-Methyl-2-propanol	59	6.938	6.925	0.013	98	389307	250.0	184.3	
32 Methyl tert-butyl ether	73	7.169	7.163	0.006	99	620124	25.0	23.5	
34 Acrylonitrile	53	7.206	7.193	0.013	97	1153474	250.0	194.6	
35 trans-1,2-Dichloroethene	96	7.236	7.230	0.006	93	185040	25.0	22.7	
36 Hexane	57	7.467	7.461	0.006	95	291740	25.0	20.0	
38 Vinyl acetate	43	7.704	7.698	0.006	97	1204228	50.0	44.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
40 1,1-Dichloroethane	63	7.753	7.753	0.000	97	383745	25.0	22.3	
44 2-Butanone (MEK)	43	8.404	8.398	0.006	98	923115	125.0	109.5	
43 cis-1,2-Dichloroethene	96	8.459	8.452	0.007	86	207042	25.0	23.1	
45 2,2-Dichloropropane	77	8.459	8.459	0.000	64	309280	25.0	26.1	
50 Chlorobromomethane	128	8.769	8.763	0.006	95	113827	25.0	24.6	
51 Tetrahydrofuran	42	8.799	8.793	0.006	91	212100	50.0	36.3	
49 Chloroform	83	8.812	8.805	0.007	95	331448	25.0	23.9	
52 1,1,1-Trichloroethane	97	9.073	9.067	0.006	98	315683	25.0	25.3	
54 Cyclohexane	56	9.140	9.134	0.006	94	412582	25.0	21.2	
53 Isobutyl alcohol	43	9.213	9.213	0.000	96	413424	625.0	436.1	
56 1,1-Dichloropropene	75	9.244	9.237	0.007	91	253929	25.0	23.3	
55 Carbon tetrachloride	117	9.274	9.268	0.006	96	313941	25.0	26.8	
57 Benzene	78	9.523	9.517	0.006	98	701443	25.0	22.2	
60 1,2-Dichloroethane	62	9.548	9.541	0.007	96	330597	25.0	25.3	
59 n-Heptane	43	9.645	9.639	0.006	97	278808	25.0	18.1	
62 Trichloroethene	95	10.278	10.265	0.013	93	190957	25.0	22.4	
64 Methylcyclohexane	83	10.515	10.509	0.006	97	290713	25.0	20.8	
63 1,2-Dichloropropane	63	10.588	10.582	0.006	93	203505	25.0	22.1	
68 1,4-Dioxane	88	10.704	10.697	0.007	98	55823	500.0	430.1	
69 Dibromomethane	93	10.770	10.770	0.000	95	136608	25.0	24.2	
70 Dichlorobromomethane	83	10.910	10.904	0.006	96	246824	25.0	24.4	
71 2-Chloroethyl vinyl ether	63	11.172	11.172	0.000	91	152556	25.0	20.7	
73 cis-1,3-Dichloropropene	75	11.446	11.446	0.000	91	303340	25.0	23.2	
75 4-Methyl-2-pentanone (MIBK	43	11.555	11.555	0.000	99	1672060	125.0	99.2	
76 Toluene	92	11.890	11.884	0.006	98	461263	25.0	22.2	
77 Ethyl methacrylate	69	12.121	12.115	0.006	96	246908	25.0	20.3	
78 trans-1,3-Dichloropropene	75	12.151	12.145	0.006	94	297155	25.0	24.1	
79 1,1,2-Trichloroethane	83	12.431	12.431	0.000	94	147315	25.0	22.8	
80 Tetrachloroethene	166	12.638	12.632	0.006	95	217853	25.0	24.3	
83 2-Hexanone	43	12.644	12.638	0.006	99	1264881	125.0	109.2	
82 1,3-Dichloropropane	76	12.669	12.668	0.001	98	302415	25.0	24.1	
81 Chlorodibromomethane	129	13.015	13.009	0.006	90	219080	25.0	24.8	
85 Ethylene Dibromide	107	13.210	13.210	0.000	99	206492	25.0	23.2	
87 Chlorobenzene	112	13.806	13.800	0.006	94	545032	25.0	23.5	
89 Ethylbenzene	91	13.873	13.867	0.006	98	867863	25.0	23.0	
88 1,1,1,2-Tetrachloroethane	131	13.885	13.885	0.000	95	215287	25.0	24.8	
90 m-Xylene & p-Xylene	106	14.007	14.007	0.000	0	352716	25.0	21.9	
93 o-Xylene	106	14.561	14.560	0.001	97	361673	25.0	22.7	
94 Styrene	104	14.579	14.573	0.006	95	567324	25.0	22.4	
92 Bromoform	173	14.932	14.931	0.001	96	144843	25.0	24.5	
95 Isopropylbenzene	105	15.005	14.998	0.007	96	911132	25.0	20.9	
97 1,1,2,2-Tetrachloroethane	83	15.424	15.424	0.000	96	269678	25.0	20.5	
98 trans-1,4-Dichloro-2-buten	53	15.485	15.479	0.006	85	103686	25.0	17.6	
101 1,2,3-Trichloropropane	110	15.522	15.515	0.007	73	88029	25.0	21.7	
100 Bromobenzene	156	15.522	15.522	0.000	94	242211	25.0	22.5	
99 N-Propylbenzene	91	15.534	15.528	0.006	98	1029311	25.0	21.0	
103 2-Chlorotoluene	126	15.723	15.716	0.007	96	228725	25.0	21.7	
102 1,3,5-Trimethylbenzene	105	15.729	15.728	0.001	95	774912	25.0	21.5	
105 4-Chlorotoluene	126	15.850	15.850	0.000	98	245061	25.0	22.2	
106 tert-Butylbenzene	134	16.167	16.166	0.001	94	173597	25.0	21.1	
107 1,2,4-Trimethylbenzene	105	16.227	16.227	0.000	97	819634	25.0	21.4	
109 sec-Butylbenzene	105	16.440	16.434	0.006	94	959877	25.0	20.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
112 4-Isopropyltoluene	119	16.592	16.592	0.000	97	869126	25.0	20.9	
110 1,3-Dichlorobenzene	146	16.678	16.677	0.001	99	498364	25.0	22.4	
111 1,4-Dichlorobenzene	146	16.781	16.781	0.000	95	507826	25.0	22.9	
115 n-Butylbenzene	91	17.103	17.103	0.000	98	730846	25.0	20.4	
116 1,2-Dichlorobenzene	146	17.268	17.268	0.000	97	501544	25.0	22.5	
117 1,2-Dibromo-3-Chloropropan	75	18.241	18.241	0.000	88	65307	25.0	18.5	
119 1,2,4-Trichlorobenzene	180	19.318	19.318	0.000	95	356347	25.0	21.4	
120 Hexachlorobutadiene	225	19.464	19.464	0.000	97	125707	25.0	20.2	
121 Naphthalene	128	19.713	19.713	0.000	97	1129942	25.0	20.3	
122 1,2,3-Trichlorobenzene	180	20.066	20.072	-0.006	96	338005	25.0	20.4	

Reagents:

8260 CORP mix_00083	Amount Added: 12.50	Units: uL	
GAS CORP mix_00183	Amount Added: 12.50	Units: uL	
P 8260 IS_00173	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00197	Amount Added: 1.25	Units: uL	Run Reagent

Report Date: 14-Oct-2016 10:32:01 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1392.D

Injection Date: 14-Oct-2016 10:10:30 Instrument ID: HP5973P Operator ID: RF

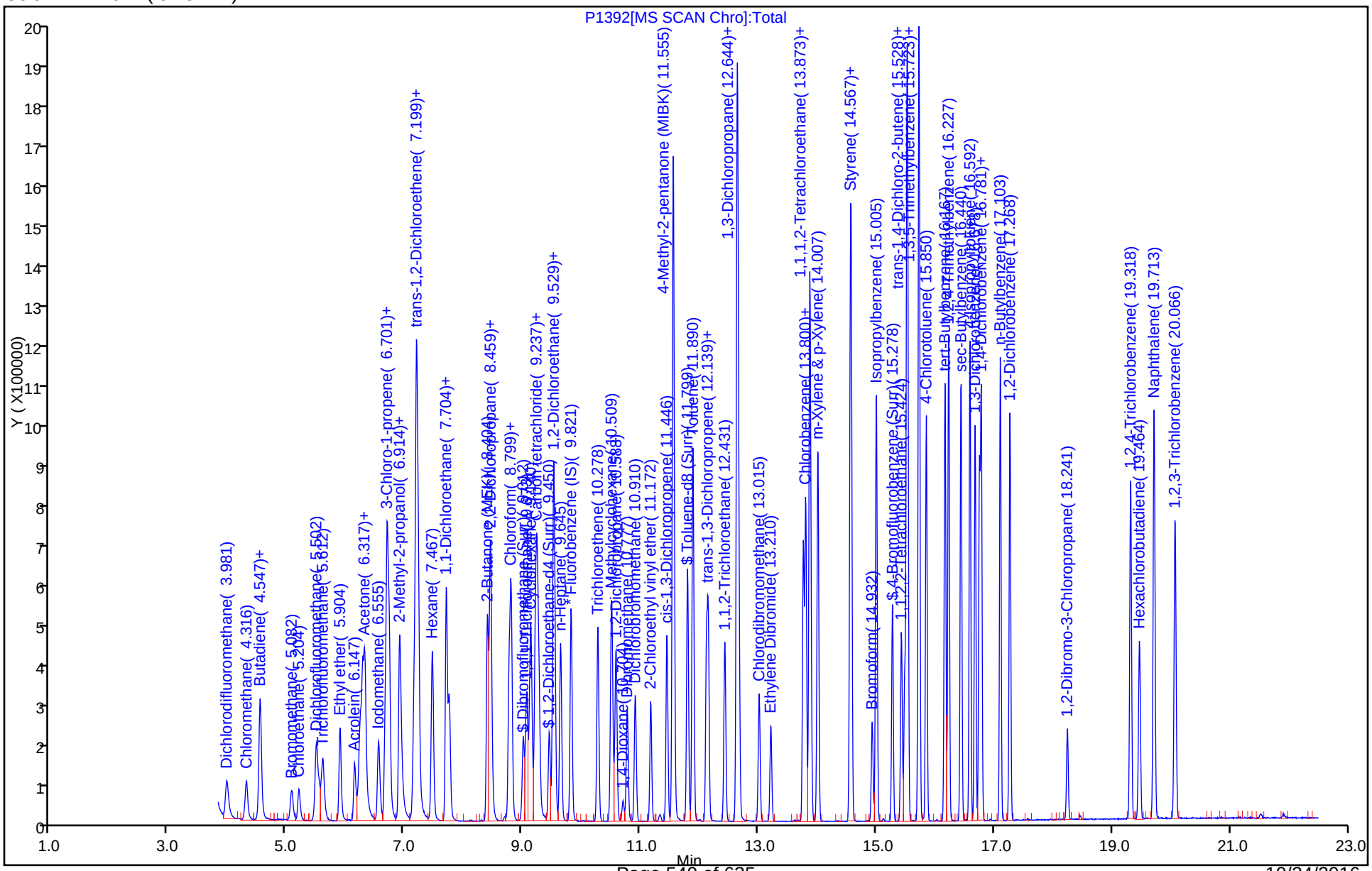
Lims ID: LCS Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: P-8260H2O Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Recovery Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P1392.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 14-Oct-2016 10:10:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0057262-004
Operator ID: RF Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57262.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Oct-2016 10:32:01 Calib Date: 15-Sep-2016 21:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: farrellr Date: 14-Oct-2016 10:32:01

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	26.4	105.76
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	25.2	100.82
$ 5 Toluene-d8 (Surr)	25.0	24.5	98.16
$ 6 4-Bromofluorobenzene (Surr)	25.0	26.2	104.91

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-325765/4

Matrix: Water | Lab File ID: P1416.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/14/2016 22:10

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.: 325765 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	26.8		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	21.3		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25.6		1.0	0.31
79-00-5	1,1,2-Trichloroethane	23.8		1.0	0.23
75-34-3	1,1-Dichloroethane	23.1		1.0	0.38
75-35-4	1,1-Dichloroethene	24.0		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	22.0		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	19.9		1.0	0.39
106-93-4	1,2-Dibromoethane	25.1		1.0	0.73
95-50-1	1,2-Dichlorobenzene	23.2		1.0	0.79
107-06-2	1,2-Dichloroethane	26.8		1.0	0.21
78-87-5	1,2-Dichloropropane	22.5		1.0	0.72
541-73-1	1,3-Dichlorobenzene	23.2		1.0	0.78
106-46-7	1,4-Dichlorobenzene	23.3		1.0	0.84
78-93-3	2-Butanone (MEK)	117		10	1.3
591-78-6	2-Hexanone	117		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	107		5.0	2.1
67-64-1	Acetone	153		10	3.0
71-43-2	Benzene	23.2		1.0	0.41
75-27-4	Bromodichloromethane	26.2		1.0	0.39
75-25-2	Bromoform	26.1		1.0	0.26
74-83-9	Bromomethane	27.9		1.0	0.69
75-15-0	Carbon disulfide	27.3		1.0	0.19
56-23-5	Carbon tetrachloride	28.6		1.0	0.27
108-90-7	Chlorobenzene	25.2		1.0	0.75
75-00-3	Chloroethane	30.0		1.0	0.32
67-66-3	Chloroform	25.5		1.0	0.34
74-87-3	Chloromethane	20.6		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	23.6		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	23.6		1.0	0.36
110-82-7	Cyclohexane	21.8		1.0	0.18
124-48-1	Dibromochloromethane	26.8		1.0	0.32
75-71-8	Dichlorodifluoromethane	23.1		1.0	0.68
100-41-4	Ethylbenzene	24.3		1.0	0.74
98-82-8	Isopropylbenzene	21.3		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-325765/4

Matrix: Water | Lab File ID: P1416.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/14/2016 22:10

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.: 325765 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	104		2.5	1.3
1634-04-4	Methyl tert-butyl ether	24.1		1.0	0.16
108-87-2	Methylcyclohexane	21.0		1.0	0.16
75-09-2	Methylene Chloride	24.4		1.0	0.44
100-42-5	Styrene	23.8		1.0	0.73
127-18-4	Tetrachloroethene	25.1		1.0	0.36
108-88-3	Toluene	23.1		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	23.5		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	25.5		1.0	0.37
79-01-6	Trichloroethene	24.1		1.0	0.46
75-69-4	Trichlorofluoromethane	26.9		1.0	0.88
75-01-4	Vinyl chloride	21.1		1.0	0.90
1330-20-7	Xylenes, Total	47.0		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57299.b\P1416.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 14-Oct-2016 22:10:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0057299-004
Operator ID: SY Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57299.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Oct-2016 20:26:01 Calib Date: 15-Sep-2016 21:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: youngmans Date: 14-Oct-2016 22:31:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.821	9.821	0.000	98	110837	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.763	13.764	-0.001	86	221566	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.751	16.751	-0.001	95	259514	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.012	9.012	0.000	93	143242	25.0	26.2	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.450	9.456	-0.006	0	91342	25.0	25.7	
$ 5 Toluene-d8 (Surr)	98	11.798	11.799	-0.001	93	486348	25.0	24.7	
$ 6 4-Bromofluorobenzene (Surr	174	15.278	15.272	0.006	89	175797	25.0	26.1	
10 Dichlorodifluoromethane	85	3.981	3.987	-0.006	99	213172	25.0	23.1	
11 Chloromethane	50	4.316	4.322	-0.006	99	199202	25.0	20.6	
17 Vinyl chloride	62	4.529	4.535	-0.006	97	147287	25.0	21.1	
144 Butadiene	54	4.547	4.553	-0.006	95	176231	25.0	23.3	
12 Bromomethane	94	5.076	5.094	-0.018	93	83752	25.0	27.9	
13 Chloroethane	64	5.198	5.210	-0.012	97	111813	25.0	30.0	
19 Dichlorofluoromethane	67	5.496	5.502	-0.006	98	342676	25.0	28.0	
14 Trichlorofluoromethane	101	5.611	5.611	0.000	98	347280	25.0	26.9	
20 Ethyl ether	59	5.897	5.903	-0.006	99	204651	25.0	23.7	
22 Acrolein	56	6.147	6.147	0.000	99	203820	125.0	95.9	
16 1,1,2-Trichloro-1,2,2-trif	101	6.244	6.250	-0.006	93	219337	25.0	25.6	
25 1,1-Dichloroethene	96	6.293	6.293	0.000	93	178555	25.0	24.0	
24 Acetone	43	6.323	6.323	0.000	98	697129	125.0	153.2	
18 Iodomethane	142	6.554	6.554	0.000	99	362489	25.0	25.4	
27 Carbon disulfide	76	6.670	6.670	0.000	100	685687	25.0	27.3	
30 Methyl acetate	43	6.700	6.700	0.000	100	1245151	125.0	104.3	
28 3-Chloro-1-propene	41	6.737	6.737	0.000	83	371888	25.0	21.1	
31 Methylene Chloride	84	6.907	6.913	-0.006	94	192211	25.0	24.4	
33 2-Methyl-2-propanol	59	6.932	6.931	0.001	98	389511	250.0	192.7	
32 Methyl tert-butyl ether	73	7.169	7.163	0.006	99	610343	25.0	24.1	
34 Acrylonitrile	53	7.199	7.199	0.000	97	1131139	250.0	199.4	
35 trans-1,2-Dichloroethene	96	7.236	7.230	0.006	93	183422	25.0	23.5	
36 Hexane	57	7.467	7.467	0.000	95	279063	25.0	20.0	
38 Vinyl acetate	43	7.704	7.704	0.000	97	1195329	50.0	46.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
40 1,1-Dichloroethane	63	7.759	7.753	0.006	97	380241	25.0	23.1	
44 2-Butanone (MEK)	43	8.404	8.398	0.006	97	944965	125.0	117.1	
43 cis-1,2-Dichloroethene	96	8.453	8.452	0.000	86	201848	25.0	23.6	
45 2,2-Dichloropropane	77	8.459	8.452	0.007	89	301247	25.0	26.6	
50 Chlorobromomethane	128	8.769	8.769	0.000	95	114718	25.0	25.9	
51 Tetrahydrofuran	42	8.799	8.793	0.006	94	211768	50.0	37.9	
49 Chloroform	83	8.805	8.805	0.000	95	339016	25.0	25.5	
52 1,1,1-Trichloroethane	97	9.067	9.067	0.000	98	320265	25.0	26.8	
54 Cyclohexane	56	9.140	9.134	0.006	94	405878	25.0	21.8	
53 Isobutyl alcohol	43	9.219	9.213	0.006	95	432124	625.0	476.3	
56 1,1-Dichloropropene	75	9.243	9.243	0.000	91	253949	25.0	24.3	
55 Carbon tetrachloride	117	9.268	9.274	-0.006	97	320228	25.0	28.6	
57 Benzene	78	9.523	9.517	0.006	98	699218	25.0	23.2	
60 1,2-Dichloroethane	62	9.548	9.541	0.007	97	334857	25.0	26.8	
59 n-Heptane	43	9.639	9.645	-0.006	97	270156	25.0	18.3	
62 Trichloroethene	95	10.278	10.271	0.007	94	197104	25.0	24.1	
64 Methylcyclohexane	83	10.515	10.509	0.006	97	280492	25.0	21.0	
63 1,2-Dichloropropane	63	10.582	10.582	0.000	92	198173	25.0	22.5	
68 1,4-Dioxane	88	10.697	10.697	0.000	97	57777	500.0	477.8	
69 Dibromomethane	93	10.770	10.770	0.000	97	134618	25.0	24.9	
70 Dichlorobromomethane	83	10.910	10.904	0.006	96	253725	25.0	26.2	
71 2-Chloroethyl vinyl ether	63	11.172	11.172	0.000	91	146563	25.0	20.8	
73 cis-1,3-Dichloropropene	75	11.446	11.446	0.000	90	294791	25.0	23.6	
75 4-Methyl-2-pentanone (MIBK	43	11.555	11.555	0.000	99	1687291	125.0	107.5	
76 Toluene	92	11.890	11.884	0.006	97	447431	25.0	23.1	
77 Ethyl methacrylate	69	12.121	12.115	0.006	96	242673	25.0	21.4	
78 trans-1,3-Dichloropropene	75	12.151	12.145	0.006	98	293145	25.0	25.5	
79 1,1,2-Trichloroethane	83	12.431	12.425	0.006	95	143327	25.0	23.8	
80 Tetrachloroethene	166	12.638	12.632	0.006	94	210059	25.0	25.1	
83 2-Hexanone	43	12.644	12.638	0.006	99	1266258	125.0	117.3	
82 1,3-Dichloropropane	76	12.668	12.668	0.000	99	291785	25.0	24.9	
81 Chlorodibromomethane	129	13.015	13.015	0.000	90	219830	25.0	26.8	
85 Ethylene Dibromide	107	13.210	13.210	0.000	98	207991	25.0	25.1	
87 Chlorobenzene	112	13.806	13.800	0.006	94	544819	25.0	25.2	
89 Ethylbenzene	91	13.867	13.867	0.000	98	853595	25.0	24.3	
88 1,1,1,2-Tetrachloroethane	131	13.885	13.885	0.000	94	216952	25.0	26.8	
90 m-Xylene & p-Xylene	106	14.007	14.007	0.000	0	350322	25.0	23.3	
93 o-Xylene	106	14.560	14.560	0.000	97	352648	25.0	23.7	
94 Styrene	104	14.579	14.579	0.000	95	560827	25.0	23.8	
92 Bromoform	173	14.932	14.931	0.001	96	143764	25.0	26.1	
95 Isopropylbenzene	105	15.005	14.998	0.006	96	889207	25.0	21.3	
97 1,1,2,2-Tetrachloroethane	83	15.424	15.424	0.000	97	268529	25.0	21.3	
98 trans-1,4-Dichloro-2-buten	53	15.479	15.479	0.000	82	97502	25.0	17.3	
101 1,2,3-Trichloropropane	110	15.516	15.515	0.001	63	87770	25.0	22.7	
100 Bromobenzene	156	15.522	15.522	0.000	93	242763	25.0	23.6	
99 N-Propylbenzene	91	15.534	15.534	0.000	98	1037144	25.0	22.2	
103 2-Chlorotoluene	126	15.722	15.722	0.000	95	226419	25.0	22.5	
102 1,3,5-Trimethylbenzene	105	15.728	15.728	0.000	95	760403	25.0	22.1	
105 4-Chlorotoluene	126	15.850	15.850	0.000	98	237909	25.0	22.6	
106 tert-Butylbenzene	134	16.166	16.166	0.000	94	170337	25.0	21.6	
107 1,2,4-Trimethylbenzene	105	16.227	16.227	0.000	97	811950	25.0	22.1	
109 sec-Butylbenzene	105	16.440	16.434	0.006	95	950042	25.0	21.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
112 4-Isopropyltoluene	119	16.592	16.592	0.000	97	857697	25.0	21.6	
110 1,3-Dichlorobenzene	146	16.678	16.677	0.001	99	493564	25.0	23.2	
111 1,4-Dichlorobenzene	146	16.781	16.781	0.000	94	494073	25.0	23.3	
115 n-Butylbenzene	91	17.103	17.103	0.000	98	713649	25.0	20.9	
116 1,2-Dichlorobenzene	146	17.268	17.267	0.001	97	494259	25.0	23.2	
117 1,2-Dibromo-3-Chloropropan	75	18.241	18.241	0.000	82	67175	25.0	19.9	
119 1,2,4-Trichlorobenzene	180	19.318	19.318	0.000	95	349690	25.0	22.0	
120 Hexachlorobutadiene	225	19.470	19.470	0.000	97	122540	25.0	20.6	
121 Naphthalene	128	19.713	19.713	0.000	97	1121667	25.0	21.1	
122 1,2,3-Trichlorobenzene	180	20.072	20.072	0.000	96	333509	25.0	21.1	

Reagents:

8260 CORP mix_00083	Amount Added: 12.50	Units: uL	
GAS CORP mix_00183	Amount Added: 12.50	Units: uL	
P 8260 IS_00173	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00197	Amount Added: 1.25	Units: uL	Run Reagent

Report Date: 14-Oct-2016 22:31:41 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57299.b\P1416.D

Injection Date: 14-Oct-2016 22:10:30 Instrument ID: HP5973P Operator ID: SY

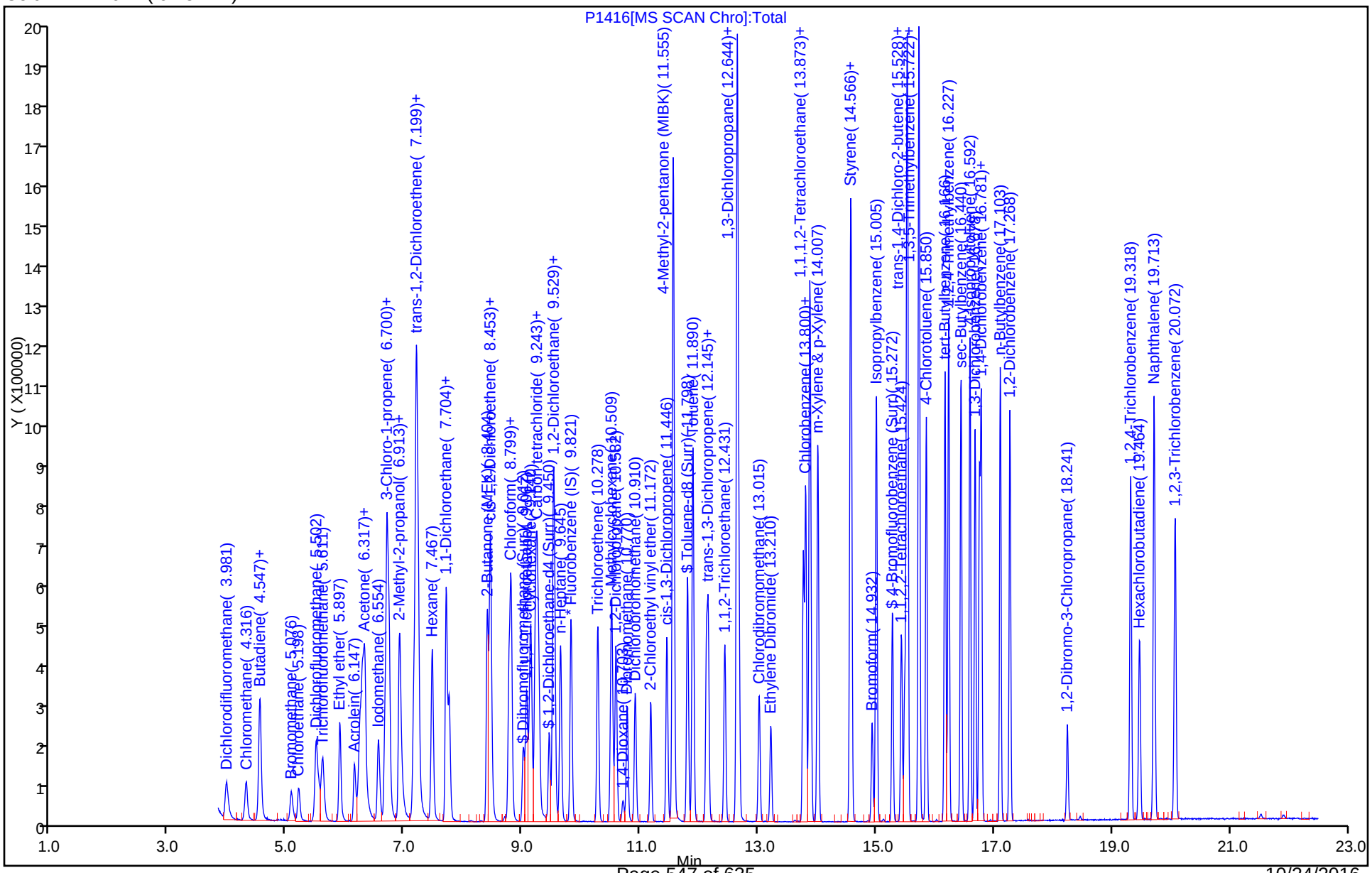
Lims ID: LCS Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: P-8260H2O Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Recovery Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57299.b\P1416.D				
Lims ID:	LCS				
Client ID:					
Sample Type:	LCS				
Inject. Date:	14-Oct-2016 22:10:30	ALS Bottle#:	4	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	LCS				
Misc. Info.:	480-0057299-004				
Operator ID:	SY	Instrument ID:	HP5973P		

Method:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57299.b\P-8260H2O.m		
Limit Group:	MV - 8260C ICAL		
Last Update:	14-Oct-2016 20:26:01	Calib Date:	15-Sep-2016 21:21:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D		

Column 1 :	ZB-624 (0.25 mm)	Det: MS SCAN
Process Host:	XAWRK008	

First Level Reviewer: youngmans Date: 14-Oct-2016 22:31:40

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	26.2	104.93
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	25.7	102.85
$ 5 Toluene-d8 (Surr)	25.0	24.7	98.87
$ 6 4-Bromofluorobenzene (Surr)	25.0	26.1	104.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-325847/4

Matrix: Water | Lab File ID: N8914.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2016 18:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 325847 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	23.8		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	20.2		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	22.8		1.0	0.31
79-00-5	1,1,2-Trichloroethane	21.6		1.0	0.23
75-34-3	1,1-Dichloroethane	21.8		1.0	0.38
75-35-4	1,1-Dichloroethene	20.6		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	24.0		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	19.7		1.0	0.39
106-93-4	1,2-Dibromoethane	22.9		1.0	0.73
95-50-1	1,2-Dichlorobenzene	23.1		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	23.0		1.0	0.78
106-46-7	1,4-Dichlorobenzene	23.6		1.0	0.84
78-93-3	2-Butanone (MEK)	109		10	1.3
591-78-6	2-Hexanone	112		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	107		5.0	2.1
67-64-1	Acetone	91.8		10	3.0
71-43-2	Benzene	22.9		1.0	0.41
75-27-4	Bromodichloromethane	24.9		1.0	0.39
75-25-2	Bromoform	23.0		1.0	0.26
74-83-9	Bromomethane	22.6		1.0	0.69
75-15-0	Carbon disulfide	19.7		1.0	0.19
56-23-5	Carbon tetrachloride	24.1		1.0	0.27
108-90-7	Chlorobenzene	22.6		1.0	0.75
75-00-3	Chloroethane	22.4		1.0	0.32
67-66-3	Chloroform	22.3		1.0	0.34
74-87-3	Chloromethane	20.2		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	22.2		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	23.4		1.0	0.36
110-82-7	Cyclohexane	22.6		1.0	0.18
124-48-1	Dibromochloromethane	24.0		1.0	0.32
75-71-8	Dichlorodifluoromethane	22.1		1.0	0.68
100-41-4	Ethylbenzene	22.2		1.0	0.74
98-82-8	Isopropylbenzene	22.6		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-325847/4

Matrix: Water | Lab File ID: N8914.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2016 18:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 325847 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	106		2.5	1.3
1634-04-4	Methyl tert-butyl ether	21.7		1.0	0.16
108-87-2	Methylcyclohexane	21.7		1.0	0.16
75-09-2	Methylene Chloride	22.5		1.0	0.44
100-42-5	Styrene	21.7		1.0	0.73
127-18-4	Tetrachloroethene	24.2		1.0	0.36
108-88-3	Toluene	22.0		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	22.2		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	22.2		1.0	0.37
79-01-6	Trichloroethene	24.6		1.0	0.46
75-69-4	Trichlorofluoromethane	23.2		1.0	0.88
75-01-4	Vinyl chloride	21.5		1.0	0.90
1330-20-7	Xylenes, Total	45.3		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8914.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 15-Oct-2016 18:29:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0057315-004
Operator ID: NEA Instrument ID: HP5973N

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 15-Oct-2016 18:51:32 Calib Date: 06-Oct-2016 06:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: archern Date: 15-Oct-2016 18:51:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.534	5.534	0.000	99	105233	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.527	8.527	0.000	84	442874	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.906	10.906	0.000	92	252100	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.932	4.932	0.000	93	158046	25.0	26.5	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.236	5.242	-0.006	0	178957	25.0	27.6	
$ 6 Toluene-d8 (Surr)	98	7.043	7.043	0.000	93	534531	25.0	24.8	
$ 7 4-Bromofluorobenzene (Surr	174	9.774	9.774	0.000	95	196401	25.0	24.9	
11 Dichlorodifluoromethane	85	1.379	1.379	0.000	100	120578	25.0	22.1	
13 Chloromethane	50	1.525	1.525	0.000	99	156511	25.0	20.2	
14 Vinyl chloride	62	1.641	1.640	0.001	99	136772	25.0	21.5	
144 Butadiene	54	1.659	1.659	0.000	94	142544	25.0	22.5	
15 Bromomethane	94	1.933	1.926	0.007	91	101379	25.0	22.6	
16 Chloroethane	64	2.042	2.042	0.000	98	88254	25.0	22.4	
17 Dichlorofluoromethane	67	2.261	2.255	0.006	99	209830	25.0	21.9	
18 Trichlorofluoromethane	101	2.273	2.285	-0.012	95	172282	25.0	23.2	
19 Ethyl ether	59	2.559	2.559	0.000	95	125085	25.0	22.1	
20 Acrolein	56	2.723	2.717	0.006	99	97352	125.0	90.6	
22 1,1-Dichloroethene	96	2.778	2.778	0.000	97	115821	25.0	20.6	
21 1,1,2-Trichloro-1,2,2-trif	101	2.784	2.778	0.006	78	125061	25.0	22.8	
23 Acetone	43	2.869	2.869	0.000	98	217960	125.0	91.8	
24 Iodomethane	142	2.930	2.924	0.006	99	263196	25.0	24.8	
25 Carbon disulfide	76	2.973	2.973	0.000	99	351270	25.0	19.7	
27 3-Chloro-1-propene	41	3.137	3.137	0.000	86	222861	25.0	20.7	
28 Methyl acetate	43	3.174	3.174	0.000	98	639407	125.0	106.3	
30 Methylene Chloride	84	3.277	3.271	0.006	95	147557	25.0	22.5	
31 2-Methyl-2-propanol	59	3.423	3.423	0.000	97	191320	250.0	205.2	
32 Methyl tert-butyl ether	73	3.502	3.502	0.000	99	429724	25.0	21.7	
33 trans-1,2-Dichloroethene	96	3.514	3.514	0.000	97	142853	25.0	22.2	
34 Acrylonitrile	53	3.533	3.532	0.001	99	621333	250.0	208.0	
35 Hexane	57	3.733	3.733	0.000	94	181468	25.0	22.2	
36 1,1-Dichloroethane	63	3.922	3.922	0.000	98	236528	25.0	21.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 Vinyl acetate	43	3.977	3.970	0.007	98	675216	50.0	51.4	
42 2,2-Dichloropropane	77	4.445	4.445	0.000	93	156576	25.0	25.8	
43 cis-1,2-Dichloroethene	96	4.475	4.469	0.006	84	162594	25.0	22.2	
44 2-Butanone (MEK)	43	4.494	4.494	0.000	99	357422	125.0	108.7	
47 Chlorobromomethane	128	4.707	4.700	0.007	91	92989	25.0	25.2	
49 Tetrahydrofuran	42	4.731	4.731	0.000	88	103035	50.0	45.7	
50 Chloroform	83	4.780	4.780	0.000	98	246359	25.0	22.3	
51 1,1,1-Trichloroethane	97	4.914	4.907	0.007	98	208587	25.0	23.8	
52 Cyclohexane	56	4.938	4.938	0.000	93	218993	25.0	22.6	
53 Carbon tetrachloride	117	5.060	5.059	0.001	97	192106	25.0	24.1	
54 1,1-Dichloropropene	75	5.066	5.066	0.000	89	170456	25.0	23.0	
56 Isobutyl alcohol	43	5.248	5.242	0.006	91	198024	625.0	533.2	
55 Benzene	78	5.266	5.260	0.006	98	524183	25.0	22.9	
57 1,2-Dichloroethane	62	5.309	5.309	0.000	97	208236	25.0	24.5	
59 n-Heptane	43	5.467	5.467	0.000	95	187755	25.0	25.1	
60 Trichloroethene	95	5.875	5.875	0.000	95	144033	25.0	24.6	
62 Methylcyclohexane	83	6.015	6.015	0.000	93	224912	25.0	21.7	
63 1,2-Dichloropropane	63	6.106	6.100	0.006	89	123535	25.0	23.2	
64 Dibromomethane	93	6.234	6.234	0.000	88	90813	25.0	24.3	
66 1,4-Dioxane	88	6.240	6.240	0.000	44	34651	500.0	498.9	
67 Dichlorobromomethane	83	6.386	6.386	0.000	97	179425	25.0	24.9	
69 2-Chloroethyl vinyl ether	63	6.666	6.665	0.001	95	78837	25.0	23.2	
71 cis-1,3-Dichloropropene	75	6.806	6.805	0.001	90	204821	25.0	23.4	
72 4-Methyl-2-pentanone (MIBK	58	6.945	6.945	0.000	98	285373	125.0	107.4	
73 Toluene	92	7.110	7.110	0.000	98	338278	25.0	22.0	
75 trans-1,3-Dichloropropene	75	7.365	7.371	-0.006	97	181276	25.0	22.2	
77 Ethyl methacrylate	69	7.426	7.426	0.000	90	151353	25.0	21.7	
78 1,1,2-Trichloroethane	83	7.554	7.554	0.000	96	95325	25.0	21.6	
79 Tetrachloroethene	166	7.651	7.651	0.000	98	170998	25.0	24.2	
80 1,3-Dichloropropane	76	7.718	7.718	0.000	95	194109	25.0	22.1	
82 2-Hexanone	43	7.791	7.785	0.006	98	496635	125.0	112.3	
83 Chlorodibromomethane	129	7.955	7.955	0.000	89	152873	25.0	24.0	
84 Ethylene Dibromide	107	8.065	8.065	0.000	99	137087	25.0	22.9	
85 Chlorobenzene	112	8.551	8.557	-0.006	96	395187	25.0	22.6	
89 1,1,1,2-Tetrachloroethane	131	8.649	8.649	0.000	92	157542	25.0	24.7	
88 Ethylbenzene	91	8.655	8.655	0.000	98	611581	25.0	22.2	
90 m-Xylene & p-Xylene	106	8.777	8.776	0.001	0	264607	25.0	22.9	
91 o-Xylene	106	9.202	9.202	0.000	96	265283	25.0	22.4	
92 Styrene	104	9.227	9.227	0.000	95	417554	25.0	21.7	
93 Bromoform	173	9.458	9.458	0.000	96	90904	25.0	23.0	
95 Isopropylbenzene	105	9.586	9.586	0.000	96	639780	25.0	22.6	
97 Bromobenzene	156	9.920	9.920	0.000	87	196295	25.0	23.4	
98 1,1,2,2-Tetrachloroethane	83	9.957	9.957	0.000	97	161029	25.0	20.2	
99 1,2,3-Trichloropropane	110	9.987	9.993	-0.006	89	57397	25.0	21.9	
101 trans-1,4-Dichloro-2-buten	53	10.005	10.005	0.000	64	49537	25.0	19.3	
100 N-Propylbenzene	91	10.012	10.011	0.001	98	706089	25.0	21.4	
102 2-Chlorotoluene	126	10.109	10.109	0.000	97	171593	25.0	23.0	
104 1,3,5-Trimethylbenzene	105	10.188	10.188	0.000	96	523622	25.0	22.1	
105 4-Chlorotoluene	91	10.218	10.218	0.000	96	517145	25.0	22.4	
106 tert-Butylbenzene	134	10.504	10.510	-0.006	92	135626	25.0	23.4	
108 1,2,4-Trimethylbenzene	105	10.559	10.559	0.000	96	547066	25.0	22.0	
109 sec-Butylbenzene	105	10.717	10.717	0.000	94	675596	25.0	21.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
110 1,3-Dichlorobenzene	146	10.845	10.845	0.000	99	373847	25.0	23.0	
111 4-Isopropyltoluene	119	10.857	10.857	0.000	97	609620	25.0	22.2	
113 1,4-Dichlorobenzene	146	10.930	10.930	0.000	97	381152	25.0	23.6	
115 n-Butylbenzene	91	11.240	11.240	0.000	97	491445	25.0	21.1	
116 1,2-Dichlorobenzene	146	11.277	11.277	0.000	99	357192	25.0	23.1	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	85	28090	25.0	19.7	
119 1,2,4-Trichlorobenzene	180	12.688	12.688	0.000	94	211603	25.0	24.0	
120 Hexachlorobutadiene	225	12.810	12.810	0.000	97	83925	25.0	21.7	
121 Naphthalene	128	12.895	12.895	0.000	97	517704	25.0	20.8	
122 1,2,3-Trichlorobenzene	180	13.102	13.102	0.000	96	173690	25.0	21.4	

Reagents:

GAS CORP mix_00183	Amount Added: 12.50	Units: uL	
8260 CORP mix_00083	Amount Added: 12.50	Units: uL	
N_8260_Surr_00210	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00038	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 15-Oct-2016 18:51:32 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8914.D

Injection Date: 15-Oct-2016 18:29:30 Instrument ID: HP5973N Operator ID: NEA

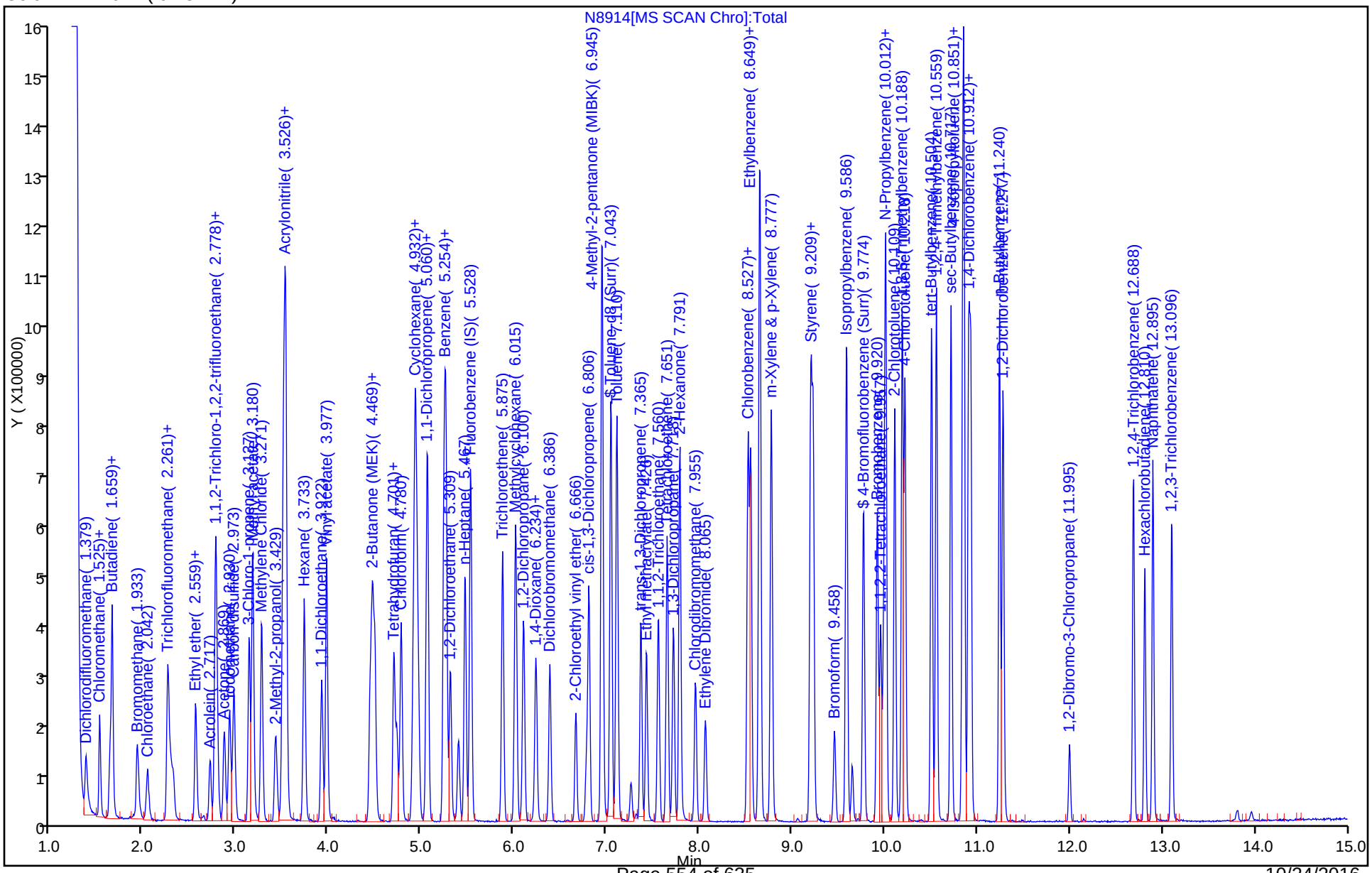
Lims ID: LCS Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: N-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Recovery Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N8914.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 15-Oct-2016 18:29:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0057315-004
Operator ID: NEA Instrument ID: HP5973N

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20161015-57315.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 15-Oct-2016 18:51:32 Calib Date: 06-Oct-2016 06:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: archern Date: 15-Oct-2016 18:51:32

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	26.5	105.98
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	27.6	110.41
$ 6 Toluene-d8 (Surr)	25.0	24.8	99.04
$ 7 4-Bromofluorobenzene (Surr)	25.0	24.9	99.73
$ 4 BFB	0.0	0	0.00

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-325887/26

Matrix: Water | Lab File ID: N8942.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/16/2016 20:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 325887 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	27.6		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	20.5		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	27.8		1.0	0.31
79-00-5	1,1,2-Trichloroethane	23.9		1.0	0.23
75-34-3	1,1-Dichloroethane	23.6		1.0	0.38
75-35-4	1,1-Dichloroethene	24.6		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	26.1		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	19.5		1.0	0.39
106-93-4	1,2-Dibromoethane	23.8		1.0	0.73
95-50-1	1,2-Dichlorobenzene	24.7		1.0	0.79
107-06-2	1,2-Dichloroethane	26.7		1.0	0.21
78-87-5	1,2-Dichloropropane	25.0		1.0	0.72
541-73-1	1,3-Dichlorobenzene	24.2		1.0	0.78
106-46-7	1,4-Dichlorobenzene	25.3		1.0	0.84
78-93-3	2-Butanone (MEK)	113		10	1.3
591-78-6	2-Hexanone	115		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	109		5.0	2.1
67-64-1	Acetone	98.2		10	3.0
71-43-2	Benzene	25.0		1.0	0.41
75-27-4	Bromodichloromethane	26.5		1.0	0.39
75-25-2	Bromoform	23.9		1.0	0.26
74-83-9	Bromomethane	25.7		1.0	0.69
75-15-0	Carbon disulfide	23.9		1.0	0.19
56-23-5	Carbon tetrachloride	28.9		1.0	0.27
108-90-7	Chlorobenzene	24.8		1.0	0.75
75-00-3	Chloroethane	26.1		1.0	0.32
67-66-3	Chloroform	24.9		1.0	0.34
74-87-3	Chloromethane	24.7		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	23.8		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	25.3		1.0	0.36
110-82-7	Cyclohexane	27.4		1.0	0.18
124-48-1	Dibromochloromethane	25.6		1.0	0.32
75-71-8	Dichlorodifluoromethane	34.8		1.0	0.68
100-41-4	Ethylbenzene	24.5		1.0	0.74
98-82-8	Isopropylbenzene	24.8		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-325887/26

Matrix: Water | Lab File ID: N8942.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/16/2016 20:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 325887 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	110		2.5	1.3
1634-04-4	Methyl tert-butyl ether	23.5		1.0	0.16
108-87-2	Methylcyclohexane	25.4		1.0	0.16
75-09-2	Methylene Chloride	23.8		1.0	0.44
100-42-5	Styrene	23.5		1.0	0.73
127-18-4	Tetrachloroethene	27.5		1.0	0.36
108-88-3	Toluene	24.5		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	24.5		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	23.5		1.0	0.37
79-01-6	Trichloroethene	27.0		1.0	0.46
75-69-4	Trichlorofluoromethane	31.6		1.0	0.88
75-01-4	Vinyl chloride	27.2		1.0	0.90
1330-20-7	Xylenes, Total	50.4		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		77-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161016-57327.b\N8942.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 16-Oct-2016 20:15:30 ALS Bottle#: 6 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: lcs
Misc. Info.: 480-0057327-026
Operator ID: JG Instrument ID: HP5973N

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20161016-57327.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Oct-2016 22:56:04 Calib Date: 06-Oct-2016 06:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK014

First Level Reviewer: gentilej Date: 16-Oct-2016 22:56:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.528	5.528	0.000	99	104419	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.527	8.527	0.000	84	438958	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.906	10.906	0.000	93	257336	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.938	4.932	0.006	94	159428	25.0	26.9	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.242	5.242	0.000	0	178593	25.0	27.8	
$ 6 Toluene-d8 (Surr)	98	7.043	7.043	0.000	93	531778	25.0	24.9	
$ 7 4-Bromofluorobenzene (Surr	174	9.774	9.774	0.000	95	198386	25.0	25.4	
11 Dichlorodifluoromethane	85	1.379	1.379	0.000	99	188567	25.0	34.8	
13 Chloromethane	50	1.525	1.525	0.000	99	189893	25.0	24.7	
14 Vinyl chloride	62	1.641	1.640	0.001	98	172153	25.0	27.2	
144 Butadiene	54	1.665	1.659	0.006	95	185235	25.0	29.4	
15 Bromomethane	94	1.933	1.932	0.001	91	114268	25.0	25.7	
16 Chloroethane	64	2.042	2.042	0.000	97	101912	25.0	26.1	
17 Dichlorofluoromethane	67	2.261	2.261	0.000	100	245735	25.0	25.9	
18 Trichlorofluoromethane	101	2.279	2.285	-0.006	93	232760	25.0	31.6	
19 Ethyl ether	59	2.565	2.559	0.006	94	134227	25.0	23.9	
20 Acrolein	56	2.717	2.717	0.000	98	100121	125.0	94.0	
22 1,1-Dichloroethene	96	2.778	2.778	0.000	99	137016	25.0	24.6	
21 1,1,2-Trichloro-1,2,2-trif	101	2.784	2.790	-0.006	78	151154	25.0	27.8	
23 Acetone	43	2.869	2.869	0.000	98	231383	125.0	98.2	
24 Iodomethane	142	2.930	2.924	0.006	98	293702	25.0	27.9	
25 Carbon disulfide	76	2.979	2.973	0.006	99	423828	25.0	23.9	
27 3-Chloro-1-propene	41	3.137	3.137	0.000	85	232144	25.0	21.7	
28 Methyl acetate	43	3.180	3.174	0.006	98	655477	125.0	109.8	
30 Methylene Chloride	84	3.277	3.277	0.000	94	154737	25.0	23.8	
31 2-Methyl-2-propanol	59	3.429	3.423	0.006	98	192057	250.0	207.6	
32 Methyl tert-butyl ether	73	3.508	3.502	0.006	98	461891	25.0	23.5	
33 trans-1,2-Dichloroethene	96	3.514	3.514	0.000	98	156563	25.0	24.5	
34 Acrylonitrile	53	3.533	3.532	0.001	100	648318	250.0	218.7	
35 Hexane	57	3.733	3.733	0.000	95	215690	25.0	26.6	
36 1,1-Dichloroethane	63	3.922	3.922	0.000	97	253934	25.0	23.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 Vinyl acetate	43	3.977	3.977	0.000	98	701020	50.0	53.8	
42 2,2-Dichloropropane	77	4.451	4.445	0.006	91	170767	25.0	28.4	
43 cis-1,2-Dichloroethene	96	4.476	4.469	0.007	82	172975	25.0	23.8	
44 2-Butanone (MEK)	43	4.494	4.494	0.000	99	368732	125.0	113.0	
47 Chlorobromomethane	128	4.701	4.707	-0.006	92	95595	25.0	26.1	
49 Tetrahydrofuran	42	4.737	4.737	0.000	86	108921	50.0	48.8	
50 Chloroform	83	4.780	4.780	0.000	97	273542	25.0	24.9	
51 1,1,1-Trichloroethane	97	4.914	4.913	0.001	98	239992	25.0	27.6	
52 Cyclohexane	56	4.938	4.938	0.000	95	263214	25.0	27.4	
53 Carbon tetrachloride	117	5.060	5.059	0.001	95	228549	25.0	28.9	
54 1,1-Dichloropropene	75	5.066	5.066	0.000	91	197043	25.0	26.8	
56 Isobutyl alcohol	43	5.242	5.242	0.000	96	205704	625.0	558.2	
55 Benzene	78	5.266	5.260	0.006	98	568943	25.0	25.0	
57 1,2-Dichloroethane	62	5.315	5.315	0.000	97	224630	25.0	26.7	
59 n-Heptane	43	5.473	5.473	0.000	96	217408	25.0	29.4	
60 Trichloroethene	95	5.881	5.875	0.006	94	157256	25.0	27.0	
62 Methylcyclohexane	83	6.021	6.021	0.000	93	260971	25.0	25.4	
63 1,2-Dichloropropane	63	6.106	6.100	0.006	91	132191	25.0	25.0	
64 Dibromomethane	93	6.234	6.234	0.000	91	98493	25.0	26.5	
66 1,4-Dioxane	88	6.246	6.246	0.000	51	36850	500.0	535.2	
67 Dichlorobromomethane	83	6.386	6.386	0.000	97	189481	25.0	26.5	
69 2-Chloroethyl vinyl ether	63	6.666	6.665	0.001	96	82837	25.0	24.5	
71 cis-1,3-Dichloropropene	75	6.806	6.805	0.001	91	219402	25.0	25.3	
72 4-Methyl-2-pentanone (MIBK	58	6.945	6.951	-0.006	98	287713	125.0	109.2	
73 Toluene	92	7.110	7.110	0.000	98	373552	25.0	24.5	
75 trans-1,3-Dichloropropene	75	7.371	7.371	0.000	98	189986	25.0	23.5	
77 Ethyl methacrylate	69	7.426	7.426	0.000	90	154783	25.0	22.4	
78 1,1,2-Trichloroethane	83	7.560	7.560	0.000	94	104915	25.0	23.9	
79 Tetrachloroethene	166	7.651	7.651	0.000	98	193011	25.0	27.5	
80 1,3-Dichloropropane	76	7.718	7.718	0.000	95	205868	25.0	23.6	
82 2-Hexanone	43	7.791	7.791	0.000	98	505360	125.0	115.2	
83 Chlorodibromomethane	129	7.955	7.961	-0.006	89	161954	25.0	25.6	
84 Ethylene Dibromide	107	8.065	8.065	0.000	99	141101	25.0	23.8	
85 Chlorobenzene	112	8.552	8.557	-0.005	96	429623	25.0	24.8	
89 1,1,1,2-Tetrachloroethane	131	8.649	8.649	0.000	92	169017	25.0	26.7	
88 Ethylbenzene	91	8.655	8.655	0.000	98	669514	25.0	24.5	
90 m-Xylene & p-Xylene	106	8.777	8.776	0.001	0	291661	25.0	25.4	
91 o-Xylene	106	9.202	9.202	0.000	96	293449	25.0	25.0	
92 Styrene	104	9.227	9.227	0.000	96	447734	25.0	23.5	
93 Bromoform	173	9.458	9.458	0.000	97	93674	25.0	23.9	
95 Isopropylbenzene	105	9.586	9.586	0.000	95	716002	25.0	24.8	
97 Bromobenzene	156	9.920	9.920	0.000	87	212330	25.0	24.8	
98 1,1,2,2-Tetrachloroethane	83	9.957	9.957	0.000	96	167148	25.0	20.5	
99 1,2,3-Trichloropropane	110	9.987	9.993	-0.006	89	58468	25.0	21.9	
101 trans-1,4-Dichloro-2-buten	53	10.006	10.005	0.001	79	54350	25.0	20.7	
100 N-Propylbenzene	91	10.012	10.011	0.001	98	785607	25.0	23.3	
102 2-Chlorotoluene	126	10.109	10.109	0.000	98	186767	25.0	24.5	
104 1,3,5-Trimethylbenzene	105	10.188	10.188	0.000	96	591514	25.0	24.4	
105 4-Chlorotoluene	91	10.218	10.218	0.000	97	546590	25.0	23.2	
106 tert-Butylbenzene	134	10.504	10.510	-0.006	91	150239	25.0	25.4	
108 1,2,4-Trimethylbenzene	105	10.559	10.559	0.000	96	612500	25.0	24.1	
109 sec-Butylbenzene	105	10.717	10.717	0.000	94	756154	25.0	24.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
110 1,3-Dichlorobenzene	146	10.845	10.845	0.000	99	402466	25.0	24.2	
111 4-Isopropyltoluene	119	10.857	10.857	0.000	97	704147	25.0	25.1	
113 1,4-Dichlorobenzene	146	10.930	10.930	0.000	97	417380	25.0	25.3	
115 n-Butylbenzene	91	11.240	11.240	0.000	97	545655	25.0	23.0	
116 1,2-Dichlorobenzene	146	11.277	11.277	0.000	98	389745	25.0	24.7	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	84	28372	25.0	19.5	
119 1,2,4-Trichlorobenzene	180	12.688	12.688	0.000	95	234619	25.0	26.1	
120 Hexachlorobutadiene	225	12.810	12.810	0.000	98	99676	25.0	25.3	
121 Naphthalene	128	12.895	12.895	0.000	96	585520	25.0	23.1	
122 1,2,3-Trichlorobenzene	180	13.102	13.102	0.000	96	199545	25.0	24.1	

Reagents:

8260 CORP mix_00083	Amount Added: 12.50	Units: uL	
GAS CORP mix_00183	Amount Added: 12.50	Units: uL	
N_8260_Surr_00211	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00038	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 16-Oct-2016 22:56:38 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161016-57327.b\N8942.D

Injection Date: 16-Oct-2016 20:15:30 Instrument ID: HP5973N Operator ID: JG

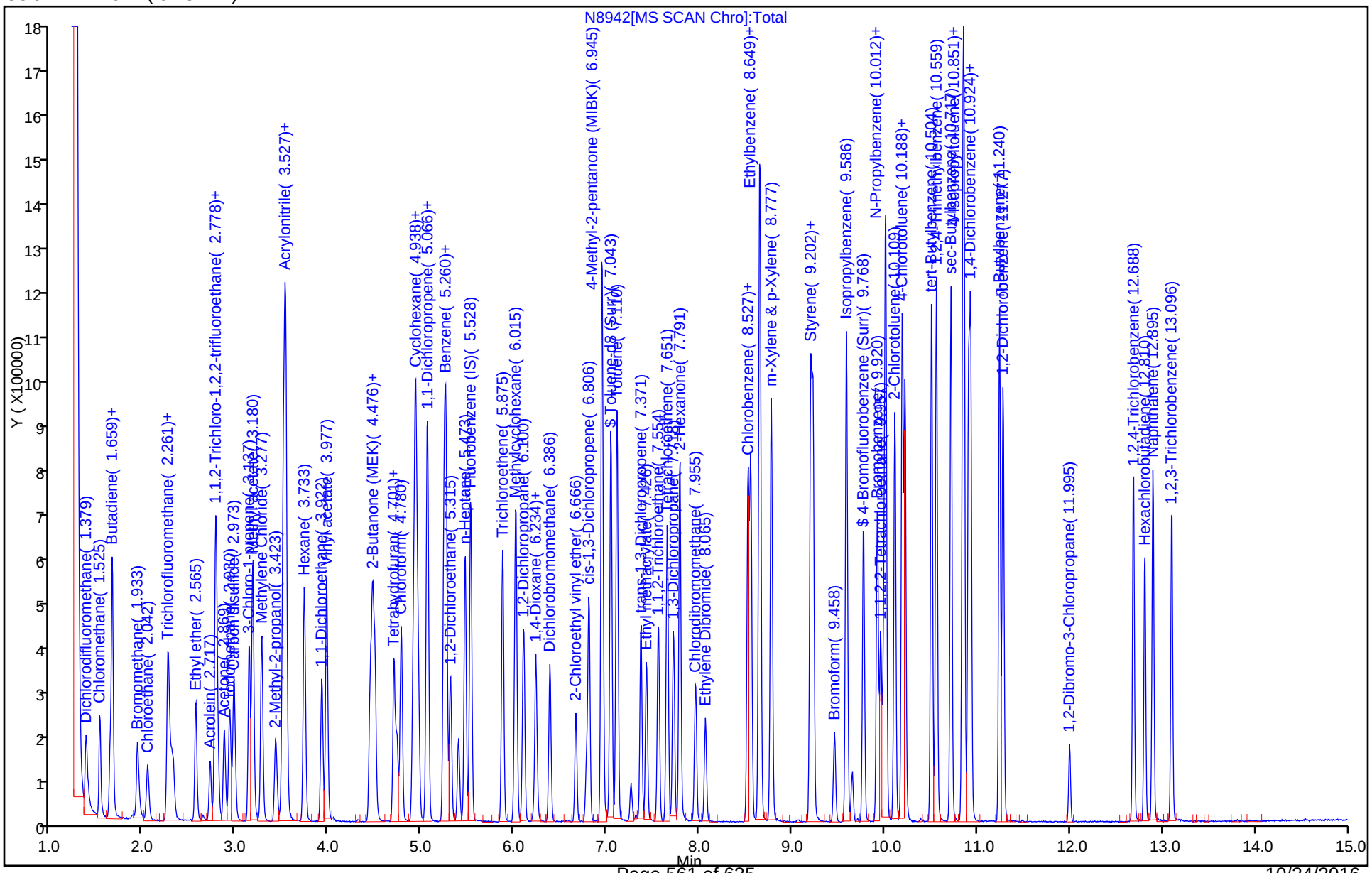
Lims ID: LCS Worklist Smp#: 26

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 6

Method: N-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Recovery Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161016-57327.b\N8942.D				
Lims ID:	LCS				
Client ID:					
Sample Type:	LCS				
Inject. Date:	16-Oct-2016 20:15:30	ALS Bottle#:	6	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	lcs				
Misc. Info.:	480-0057327-026				
Operator ID:	JG	Instrument ID:	HP5973N		

Method:	\\ChromNA\Buffalo\ChromData\HP5973N\20161016-57327.b\N-8260.m		
Limit Group:	MV - 8260C ICAL		
Last Update:	16-Oct-2016 22:56:04	Calib Date:	06-Oct-2016 06:56:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D		

Column 1 :	ZB-624 (0.25 mm)	Det: MS SCAN
Process Host:	XAWRK014	

First Level Reviewer: gentilej Date: 16-Oct-2016 22:56:38

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	26.9	107.74
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	27.8	111.04
$ 6 Toluene-d8 (Surr)	25.0	24.9	99.41
$ 7 4-Bromofluorobenzene (Surr)	25.0	25.4	101.63

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-325955/5

Matrix: Water | Lab File ID: N8970.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/17/2016 09:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 325955 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	25.8		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	20.0		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	24.5		1.0	0.31
79-00-5	1,1,2-Trichloroethane	22.6		1.0	0.23
75-34-3	1,1-Dichloroethane	22.2		1.0	0.38
75-35-4	1,1-Dichloroethene	22.3		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	23.9		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	17.0		1.0	0.39
106-93-4	1,2-Dibromoethane	22.7		1.0	0.73
95-50-1	1,2-Dichlorobenzene	23.7		1.0	0.79
107-06-2	1,2-Dichloroethane	24.7		1.0	0.21
78-87-5	1,2-Dichloropropane	23.0		1.0	0.72
541-73-1	1,3-Dichlorobenzene	23.3		1.0	0.78
106-46-7	1,4-Dichlorobenzene	23.6		1.0	0.84
78-93-3	2-Butanone (MEK)	129		10	1.3
591-78-6	2-Hexanone	120		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	104		5.0	2.1
67-64-1	Acetone	149		10	3.0
71-43-2	Benzene	23.5		1.0	0.41
75-27-4	Bromodichloromethane	24.9		1.0	0.39
75-25-2	Bromoform	22.0		1.0	0.26
74-83-9	Bromomethane	24.2		1.0	0.69
75-15-0	Carbon disulfide	19.4		1.0	0.19
56-23-5	Carbon tetrachloride	25.3		1.0	0.27
108-90-7	Chlorobenzene	23.1		1.0	0.75
75-00-3	Chloroethane	25.1		1.0	0.32
67-66-3	Chloroform	23.4		1.0	0.34
74-87-3	Chloromethane	22.3		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	22.2		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	22.9		1.0	0.36
110-82-7	Cyclohexane	23.6		1.0	0.18
124-48-1	Dibromochloromethane	24.1		1.0	0.32
75-71-8	Dichlorodifluoromethane	28.2		1.0	0.68
100-41-4	Ethylbenzene	22.5		1.0	0.74
98-82-8	Isopropylbenzene	23.1		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-325955/5

Matrix: Water | Lab File ID: N8970.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/17/2016 09:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 325955 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	103		2.5	1.3
1634-04-4	Methyl tert-butyl ether	21.3		1.0	0.16
108-87-2	Methylcyclohexane	23.2		1.0	0.16
75-09-2	Methylene Chloride	22.2		1.0	0.44
100-42-5	Styrene	22.6		1.0	0.73
127-18-4	Tetrachloroethene	26.0		1.0	0.36
108-88-3	Toluene	22.7		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	22.8		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	21.0		1.0	0.37
79-01-6	Trichloroethene	25.8		1.0	0.46
75-69-4	Trichlorofluoromethane	29.6		1.0	0.88
75-01-4	Vinyl chloride	25.7		1.0	0.90
1330-20-7	Xylenes, Total	46.1		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		77-120
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161017-57336.b\N8970.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 17-Oct-2016 09:27:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: lcs
Misc. Info.: 480-0057336-005
Operator ID: NEA Instrument ID: HP5973N

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20161017-57336.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 17-Oct-2016 10:30:49 Calib Date: 06-Oct-2016 06:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: archern Date: 17-Oct-2016 09:55:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.528	5.534	-0.006	99	100302	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.527	8.527	0.000	84	423402	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.906	10.906	0.000	93	243653	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.932	4.932	0.000	93	150798	25.0	26.5	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.242	5.242	0.000	0	166241	25.0	26.9	
$ 6 Toluene-d8 (Surr)	98	7.043	7.049	-0.006	93	516210	25.0	25.0	
$ 7 4-Bromofluorobenzene (Surr	174	9.774	9.774	0.000	97	191030	25.0	25.4	
11 Dichlorodifluoromethane	85	1.379	1.379	0.000	98	146624	25.0	28.2	
13 Chloromethane	50	1.525	1.525	0.000	99	164589	25.0	22.3	
14 Vinyl chloride	62	1.641	1.640	0.001	99	156006	25.0	25.7	
144 Butadiene	54	1.659	1.659	0.000	95	176864	25.0	29.2	
15 Bromomethane	94	1.933	1.932	0.001	92	103380	25.0	24.2	
16 Chloroethane	64	2.042	2.042	0.000	98	93910	25.0	25.1	
17 Dichlorofluoromethane	67	2.261	2.261	0.000	99	224780	25.0	24.7	
18 Trichlorofluoromethane	101	2.279	2.279	0.000	97	209505	25.0	29.6	
19 Ethyl ether	59	2.559	2.565	-0.006	96	115398	25.0	21.4	
20 Acrolein	56	2.717	2.717	0.000	97	94536	125.0	92.3	
22 1,1-Dichloroethene	96	2.778	2.778	0.000	98	119050	25.0	22.3	
21 1,1,2-Trichloro-1,2,2-trif	101	2.784	2.784	0.000	87	127672	25.0	24.5	
23 Acetone	43	2.869	2.869	0.000	98	337931	125.0	149.3	
24 Iodomethane	142	2.930	2.930	0.000	99	248337	25.0	24.5	
25 Carbon disulfide	76	2.973	2.973	0.000	99	330174	25.0	19.4	
27 3-Chloro-1-propene	41	3.137	3.137	0.000	84	201667	25.0	19.7	
28 Methyl acetate	43	3.180	3.180	0.000	99	591669	125.0	103.2	
30 Methylene Chloride	84	3.277	3.271	0.006	95	139449	25.0	22.2	
31 2-Methyl-2-propanol	59	3.423	3.423	0.000	96	177911	250.0	200.2	
32 Methyl tert-butyl ether	73	3.508	3.508	0.000	98	401620	25.0	21.3	
33 trans-1,2-Dichloroethene	96	3.514	3.514	0.000	96	139552	25.0	22.8	
34 Acrylonitrile	53	3.533	3.532	0.001	100	584270	250.0	205.2	
35 Hexane	57	3.733	3.733	0.000	94	181847	25.0	23.3	
36 1,1-Dichloroethane	63	3.922	3.922	0.000	98	230081	25.0	22.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 Vinyl acetate	43	3.977	3.976	0.001	98	612846	50.0	48.9	
42 2,2-Dichloropropane	77	4.451	4.445	0.006	92	152330	25.0	26.4	
43 cis-1,2-Dichloroethene	96	4.475	4.475	0.000	92	154623	25.0	22.2	
44 2-Butanone (MEK)	43	4.494	4.494	0.000	100	403477	125.0	128.7	
47 Chlorobromomethane	128	4.701	4.706	-0.005	92	86963	25.0	24.7	
49 Tetrahydrofuran	42	4.731	4.737	-0.006	90	101633	50.0	47.4	
50 Chloroform	83	4.780	4.779	0.001	97	246648	25.0	23.4	
51 1,1,1-Trichloroethane	97	4.914	4.913	0.001	97	216024	25.0	25.8	
52 Cyclohexane	56	4.938	4.938	0.000	96	217566	25.0	23.6	
53 Carbon tetrachloride	117	5.060	5.059	0.001	93	191511	25.0	25.3	
54 1,1-Dichloropropene	75	5.066	5.065	0.001	86	168951	25.0	23.9	
56 Isobutyl alcohol	43	5.242	5.248	-0.006	91	189056	625.0	534.1	
55 Benzene	78	5.266	5.266	0.000	98	513812	25.0	23.5	
57 1,2-Dichloroethane	62	5.309	5.315	-0.006	97	200288	25.0	24.7	
59 n-Heptane	43	5.467	5.473	-0.006	96	191009	25.0	26.8	
60 Trichloroethene	95	5.875	5.875	0.000	92	144220	25.0	25.8	
62 Methylcyclohexane	83	6.021	6.021	0.000	93	229284	25.0	23.2	
63 1,2-Dichloropropane	63	6.100	6.106	-0.006	87	116980	25.0	23.0	
64 Dibromomethane	93	6.234	6.227	0.007	89	87091	25.0	24.4	
66 1,4-Dioxane	88	6.240	6.240	0.000	39	33107	500.0	498.5	
67 Dichlorobromomethane	83	6.386	6.386	0.000	97	171105	25.0	24.9	
69 2-Chloroethyl vinyl ether	63	6.666	6.665	0.001	95	76851	25.0	23.7	
71 cis-1,3-Dichloropropene	75	6.806	6.805	0.001	91	191411	25.0	22.9	
72 4-Methyl-2-pentanone (MIBK	58	6.952	6.951	0.001	98	263175	125.0	103.6	
73 Toluene	92	7.110	7.110	0.000	99	333183	25.0	22.7	
75 trans-1,3-Dichloropropene	75	7.371	7.371	0.000	96	164097	25.0	21.0	
77 Ethyl methacrylate	69	7.426	7.426	0.000	90	135864	25.0	20.4	
78 1,1,2-Trichloroethane	83	7.560	7.554	0.006	93	95361	25.0	22.6	
79 Tetrachloroethene	166	7.651	7.651	0.000	98	175990	25.0	26.0	
80 1,3-Dichloropropane	76	7.724	7.718	0.006	95	181950	25.0	21.7	
82 2-Hexanone	43	7.791	7.791	0.000	98	508870	125.0	120.3	
83 Chlorodibromomethane	129	7.955	7.955	0.000	89	146732	25.0	24.1	
84 Ethylene Dibromide	107	8.065	8.065	0.000	97	129947	25.0	22.7	
85 Chlorobenzene	112	8.551	8.557	-0.006	96	387085	25.0	23.1	
89 1,1,1,2-Tetrachloroethane	131	8.649	8.649	0.000	94	154699	25.0	25.3	
88 Ethylbenzene	91	8.655	8.655	0.000	98	593543	25.0	22.5	
90 m-Xylene & p-Xylene	106	8.777	8.776	0.001	0	257515	25.0	23.3	
91 o-Xylene	106	9.202	9.202	0.000	95	258939	25.0	22.8	
92 Styrene	104	9.227	9.227	0.000	95	415728	25.0	22.6	
93 Bromoform	173	9.458	9.458	0.000	96	83217	25.0	22.0	
95 Isopropylbenzene	105	9.586	9.586	0.000	95	629824	25.0	23.1	
97 Bromobenzene	156	9.920	9.920	0.000	87	193798	25.0	23.9	
98 1,1,2,2-Tetrachloroethane	83	9.957	9.957	0.000	95	154548	25.0	20.0	
99 1,2,3-Trichloropropane	110	9.987	9.993	-0.006	88	57617	25.0	22.8	
101 trans-1,4-Dichloro-2-buten	53	10.005	10.005	0.000	73	38385	25.0	15.5	
100 N-Propylbenzene	91	10.012	10.011	0.001	98	700557	25.0	21.9	
102 2-Chlorotoluene	126	10.109	10.109	0.000	97	173466	25.0	24.0	
104 1,3,5-Trimethylbenzene	105	10.188	10.188	0.000	96	525039	25.0	22.9	
105 4-Chlorotoluene	91	10.218	10.218	0.000	97	497255	25.0	22.3	
106 tert-Butylbenzene	134	10.504	10.510	-0.006	91	134990	25.0	24.1	
108 1,2,4-Trimethylbenzene	105	10.559	10.559	0.000	96	545787	25.0	22.7	
109 sec-Butylbenzene	105	10.717	10.717	0.000	94	680027	25.0	22.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
110 1,3-Dichlorobenzene	146	10.845	10.845	0.000	98	365791	25.0	23.3	
111 4-Isopropyltoluene	119	10.857	10.857	0.000	97	618190	25.0	23.3	
113 1,4-Dichlorobenzene	146	10.930	10.930	0.000	95	367789	25.0	23.6	
115 n-Butylbenzene	91	11.240	11.240	0.000	97	489546	25.0	21.8	
116 1,2-Dichlorobenzene	146	11.277	11.277	0.000	98	354153	25.0	23.7	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	86	23336	25.0	17.0	
119 1,2,4-Trichlorobenzene	180	12.688	12.688	0.000	95	203584	25.0	23.9	
120 Hexachlorobutadiene	225	12.810	12.810	0.000	97	86737	25.0	23.2	
121 Naphthalene	128	12.895	12.895	0.000	96	501516	25.0	20.9	
122 1,2,3-Trichlorobenzene	180	13.102	13.102	0.000	97	178356	25.0	22.8	

Reagents:

8260 CORP mix_00083	Amount Added: 12.50	Units: uL	
GAS CORP mix_00184	Amount Added: 12.50	Units: uL	
N_8260_Surr_00211	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00038	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 17-Oct-2016 10:34:21 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161017-57336.b\N8970.D

Injection Date: 17-Oct-2016 09:27:30 Instrument ID: HP5973N Operator ID: NEA

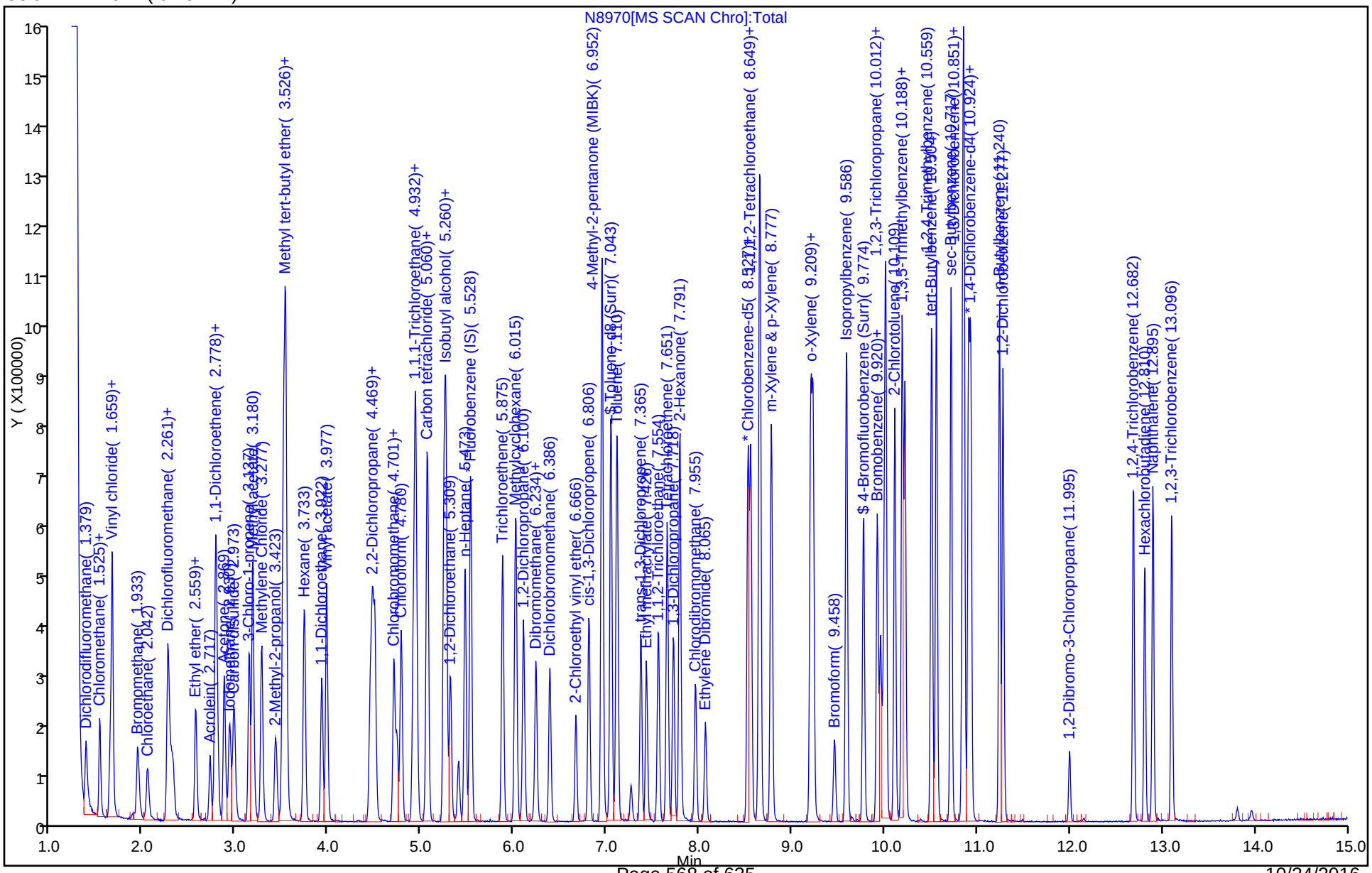
Lims ID: LCS Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 5

Method: N-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Recovery Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161017-57336.b\N8970.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 17-Oct-2016 09:27:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: lcs
Misc. Info.: 480-0057336-005
Operator ID: NEA Instrument ID: HP5973N

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20161017-57336.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 17-Oct-2016 10:30:49 Calib Date: 06-Oct-2016 06:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: archern Date: 17-Oct-2016 09:55:29

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	26.5	106.09
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	26.9	107.61
$ 6 Toluene-d8 (Surr)	25.0	25.0	100.05
$ 7 4-Bromofluorobenzene (Surr)	25.0	25.4	101.46
$ 4 BFB	0.0	0	0.00

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: A2-PZ-1 MS | Lab Sample ID: 480-107471-11 MS

Matrix: Water | Lab File ID: N8991.D

Analysis Method: 8260C | Date Collected: 10/11/2016 11:25

Sample wt/vol: 5(mL) | Date Analyzed: 10/17/2016 19:05

Soil Aliquot Vol: | Dilution Factor: 200

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 325955 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	5190		200	160
79-34-5	1,1,2,2-Tetrachloroethane	3960		200	42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5270		200	62
79-00-5	1,1,2-Trichloroethane	4380		200	46
75-34-3	1,1-Dichloroethane	4900		200	76
75-35-4	1,1-Dichloroethene	4510		200	58
120-82-1	1,2,4-Trichlorobenzene	4650		200	82
96-12-8	1,2-Dibromo-3-Chloropropane	3460		200	78
106-93-4	1,2-Dibromoethane	4440		200	150
95-50-1	1,2-Dichlorobenzene	4740		200	160
107-06-2	1,2-Dichloroethane	5000		200	42
78-87-5	1,2-Dichloropropane	4530		200	140
541-73-1	1,3-Dichlorobenzene	4570		200	160
106-46-7	1,4-Dichlorobenzene	4680		200	170
78-93-3	2-Butanone (MEK)	24100		2000	260
591-78-6	2-Hexanone	23300		1000	250
108-10-1	4-Methyl-2-pentanone (MIBK)	21000		1000	420
67-64-1	Acetone	25700		2000	600
71-43-2	Benzene	4810		200	82
75-27-4	Bromodichloromethane	4830		200	78
75-25-2	Bromoform	4240		200	52
74-83-9	Bromomethane	5180		200	140
75-15-0	Carbon disulfide	3830		200	38
56-23-5	Carbon tetrachloride	5000		200	54
108-90-7	Chlorobenzene	4670		200	150
75-00-3	Chloroethane	5230		200	64
67-66-3	Chloroform	4550		200	68
74-87-3	Chloromethane	4660		200	70
156-59-2	cis-1,2-Dichloroethene	15000		200	160
10061-01-5	cis-1,3-Dichloropropene	4430		200	72
110-82-7	Cyclohexane	4870		200	36
124-48-1	Dibromochloromethane	4630		200	64
75-71-8	Dichlorodifluoromethane	6450		200	140
100-41-4	Ethylbenzene	4560		200	150
98-82-8	Isopropylbenzene	4670		200	160

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: A2-PZ-1 MS | Lab Sample ID: 480-107471-11 MS

Matrix: Water | Lab File ID: N8991.D

Analysis Method: 8260C | Date Collected: 10/11/2016 11:25

Sample wt/vol: 5(mL) | Date Analyzed: 10/17/2016 19:05

Soil Aliquot Vol: | Dilution Factor: 200

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 325955 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	20200		500	260
1634-04-4	Methyl tert-butyl ether	4320		200	32
108-87-2	Methylcyclohexane	4550		200	32
75-09-2	Methylene Chloride	4580		200	88
100-42-5	Styrene	4490		200	150
127-18-4	Tetrachloroethene	5160		200	72
108-88-3	Toluene	4570		200	100
156-60-5	trans-1,2-Dichloroethene	4630		200	180
10061-02-6	trans-1,3-Dichloropropene	4090		200	74
79-01-6	Trichloroethene	5550		200	92
75-69-4	Trichlorofluoromethane	5980		200	180
75-01-4	Vinyl chloride	5830		200	180
1330-20-7	Xylenes, Total	9400		400	130

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		77-120
460-00-4	4-Bromofluorobenzene (Surr)	106		73-120
2037-26-5	Toluene-d8 (Surr)	102		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161017-57336.b\N8991.D
Lims ID: 480-107471-C-11 MS
Client ID:
Sample Type: MS
Inject. Date: 17-Oct-2016 19:05:30 ALS Bottle#: 26 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 200.0000
Sample Info: 480-107471-C-11 MS
Misc. Info.: 480-0057336-026
Operator ID: NEA Instrument ID: HP5973N

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20161017-57336.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 17-Oct-2016 17:49:55 Calib Date: 06-Oct-2016 06:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK035

First Level Reviewer: HillL Date: 21-Oct-2016 17:03:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.534	5.534	0.000	99	98640	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.527	8.527	0.000	85	410870	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.906	10.906	0.000	92	246226	25.0	25.0	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.242	5.242	0.000	0	169107	25.0	27.8	
$ 6 Toluene-d8 (Surr)	98	7.043	7.049	-0.006	93	508306	25.0	25.4	
$ 7 4-Bromofluorobenzene (Surr	174	9.774	9.774	0.000	94	193930	25.0	26.5	
11 Dichlorodifluoromethane	85	1.379	1.379	0.000	99	164997	25.0	32.3	
13 Chloromethane	50	1.525	1.525	0.000	99	169218	25.0	23.3	
14 Vinyl chloride	62	1.640	1.640	0.000	100	173945	25.0	29.1	
15 Bromomethane	94	1.933	1.932	0.000	92	108670	25.0	25.9	
16 Chloroethane	64	2.042	2.042	0.000	98	96444	25.0	26.2	
18 Trichlorofluoromethane	101	2.273	2.279	-0.006	95	208224	25.0	29.9	
22 1,1-Dichloroethene	96	2.778	2.778	0.000	98	118511	25.0	22.5	
21 1,1,2-Trichloro-1,2,2-trif	101	2.784	2.784	0.000	89	135204	25.0	26.3	
23 Acetone	43	2.869	2.869	0.000	98	286134	125.0	128.6	
25 Carbon disulfide	76	2.979	2.973	0.006	100	320081	25.0	19.1	
28 Methyl acetate	43	3.180	3.180	0.000	98	568766	125.0	100.9	
30 Methylene Chloride	84	3.277	3.271	0.006	96	140903	25.0	22.9	
32 Methyl tert-butyl ether	73	3.508	3.508	0.000	98	400974	25.0	21.6	
33 trans-1,2-Dichloroethene	96	3.514	3.514	0.000	98	139525	25.0	23.2	
36 1,1-Dichloroethane	63	3.928	3.922	0.006	98	249327	25.0	24.5	
43 cis-1,2-Dichloroethene	96	4.475	4.475	0.000	82	514958	25.0	75.1	
44 2-Butanone (MEK)	43	4.500	4.494	0.006	99	371226	125.0	120.4	
50 Chloroform	83	4.786	4.779	0.007	97	235844	25.0	22.8	
51 1,1,1-Trichloroethane	97	4.913	4.913	0.000	98	213287	25.0	25.9	
52 Cyclohexane	56	4.938	4.938	0.000	93	220928	25.0	24.4	
53 Carbon tetrachloride	117	5.059	5.059	0.000	90	186593	25.0	25.0	
55 Benzene	78	5.266	5.266	0.000	98	517073	25.0	24.1	
57 1,2-Dichloroethane	62	5.315	5.315	0.000	98	199193	25.0	25.0	
60 Trichloroethene	95	5.875	5.875	0.000	94	152469	25.0	27.7	
62 Methylcyclohexane	83	6.015	6.021	-0.006	93	220576	25.0	22.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
63 1,2-Dichloropropane	63	6.100	6.106	-0.006	84	112974	25.0	22.6	
67 Dichlorobromomethane	83	6.386	6.386	0.000	98	163337	25.0	24.2	
71 cis-1,3-Dichloropropene	75	6.805	6.805	0.000	90	181900	25.0	22.2	
72 4-Methyl-2-pentanone (MIBK	58	6.951	6.951	0.000	98	258763	125.0	104.9	
73 Toluene	92	7.110	7.110	0.000	98	325412	25.0	22.8	
75 trans-1,3-Dichloropropene	75	7.371	7.371	0.000	97	155167	25.0	20.5	
78 1,1,2-Trichloroethane	83	7.560	7.554	0.006	93	89809	25.0	21.9	
79 Tetrachloroethene	166	7.651	7.651	0.000	98	169228	25.0	25.8	
82 2-Hexanone	43	7.791	7.791	0.000	97	477148	125.0	116.3	
83 Chlorodibromomethane	129	7.961	7.955	0.006	89	136867	25.0	23.1	
84 Ethylene Dibromide	107	8.065	8.065	0.000	100	123420	25.0	22.2	
85 Chlorobenzene	112	8.558	8.557	0.001	96	379497	25.0	23.4	
88 Ethylbenzene	91	8.655	8.655	0.000	98	584035	25.0	22.8	
90 m-Xylene & p-Xylene	106	8.777	8.776	0.001	0	249507		23.2	
91 o-Xylene	106	9.202	9.202	0.000	96	261556		23.8	
92 Styrene	104	9.227	9.227	0.000	96	400722	25.0	22.4	
93 Bromoform	173	9.458	9.458	0.000	97	77836	25.0	21.2	
95 Isopropylbenzene	105	9.592	9.586	0.006	95	643882	25.0	23.3	
98 1,1,2,2-Tetrachloroethane	83	9.957	9.957	0.000	96	154521	25.0	19.8	
110 1,3-Dichlorobenzene	146	10.845	10.845	0.000	99	363297	25.0	22.9	
113 1,4-Dichlorobenzene	146	10.930	10.930	0.000	96	368920	25.0	23.4	
116 1,2-Dichlorobenzene	146	11.277	11.277	0.000	98	358026	25.0	23.7	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	83	24014	25.0	17.3	
119 1,2,4-Trichlorobenzene	180	12.688	12.688	0.000	95	199954	25.0	23.2	
S 126 Xylenes, Total	1				0			47.0	

Reagents:

8260 CORP mix_00083	Amount Added: 12.50	Units: uL	
GAS CORP mix_00184	Amount Added: 12.50	Units: uL	
N_8260_Surr_00211	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00038	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 21-Oct-2016 17:03:47 Chrom Revision: 2.2 17-Oct-2016 09:27:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161017-57336.b\N8991.D

Injection Date: 17-Oct-2016 19:05:30 Instrument ID: HP5973N Operator ID: NEA

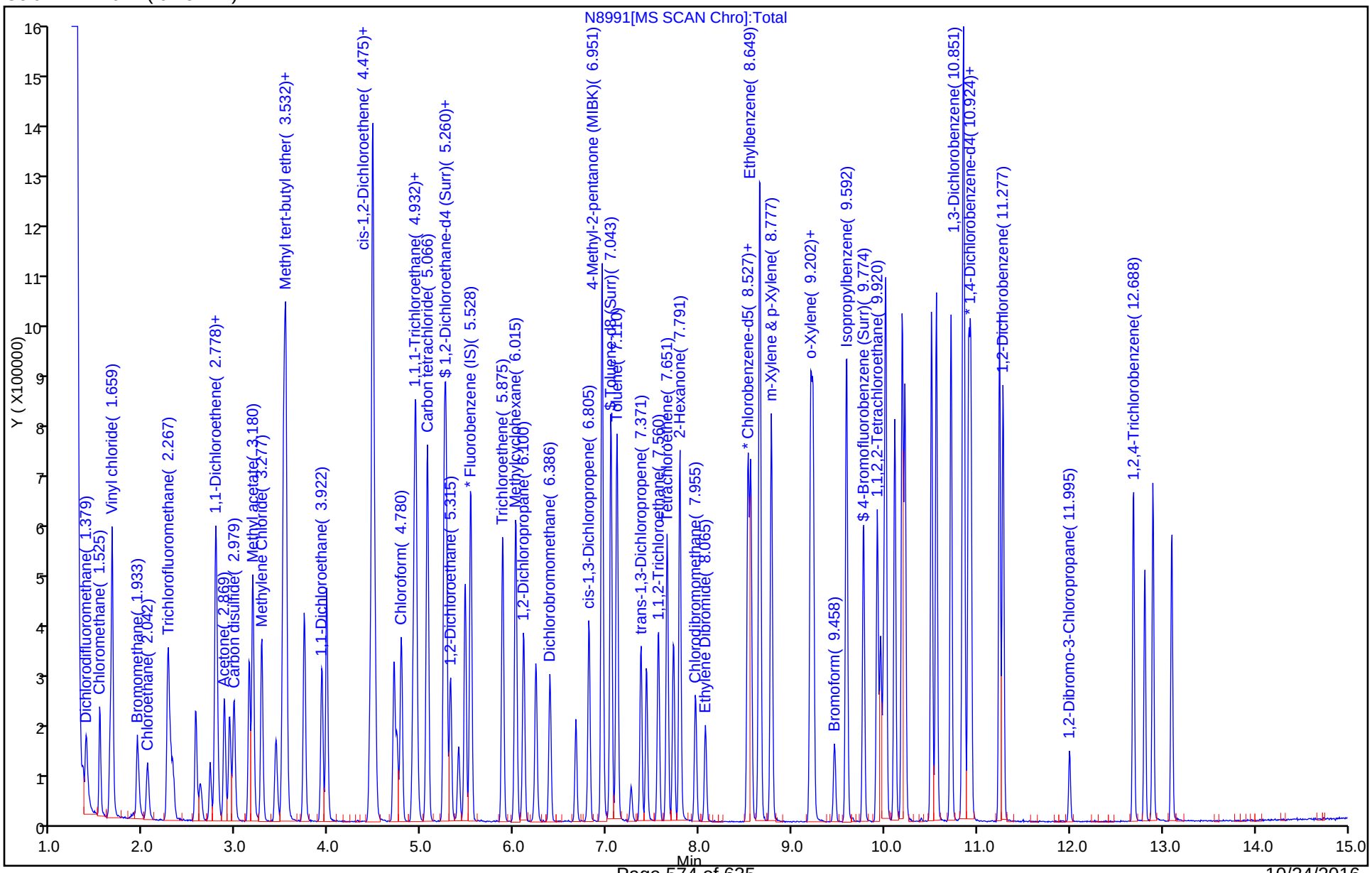
Lims ID: 480-107471-C-11 MS Worklist Smp#: 26

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 200.0000 ALS Bottle#: 26

Method: N-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Recovery Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161017-57336.b\N8991.D				
Lims ID:	480-107471-C-11 MS				
Client ID:					
Sample Type:	MS				
Inject. Date:	17-Oct-2016 19:05:30	ALS Bottle#:	26	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	200.0000		
Sample Info:	480-107471-C-11 MS				
Misc. Info.:	480-0057336-026				
Operator ID:	NEA	Instrument ID:	HP5973N		

Method:	\\ChromNA\Buffalo\ChromData\HP5973N\20161017-57336.b\N-8260.m		
Limit Group:	MV - 8260C ICAL		
Last Update:	17-Oct-2016 17:49:55	Calib Date:	06-Oct-2016 06:56:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D		

Column 1 :	ZB-624 (0.25 mm)	Det: MS SCAN
Process Host:	XAWRK035	

First Level Reviewer: HillL Date: 21-Oct-2016 17:03:46

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	27.8	111.30
$ 6 Toluene-d8 (Surr)	25.0	25.4	101.52
$ 7 4-Bromofluorobenzene (Surr)	25.0	26.5	106.14

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: A2-PZ-2 MS | Lab Sample ID: 480-107471-12 MS

Matrix: Water | Lab File ID: N8961.D

Analysis Method: 8260C | Date Collected: 10/11/2016 14:25

Sample wt/vol: 5(mL) | Date Analyzed: 10/17/2016 05:02

Soil Aliquot Vol: | Dilution Factor: 8

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 325887 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	205		8.0	6.6
79-34-5	1,1,2,2-Tetrachloroethane	155		8.0	1.7
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	192		8.0	2.5
79-00-5	1,1,2-Trichloroethane	180		8.0	1.8
75-34-3	1,1-Dichloroethane	183		8.0	3.0
75-35-4	1,1-Dichloroethene	176		8.0	2.3
120-82-1	1,2,4-Trichlorobenzene	181		8.0	3.3
96-12-8	1,2-Dibromo-3-Chloropropane	133		8.0	3.1
106-93-4	1,2-Dibromoethane	181		8.0	5.8
95-50-1	1,2-Dichlorobenzene	188		8.0	6.3
107-06-2	1,2-Dichloroethane	204		8.0	1.7
78-87-5	1,2-Dichloropropane	181		8.0	5.8
541-73-1	1,3-Dichlorobenzene	187		8.0	6.2
106-46-7	1,4-Dichlorobenzene	193		8.0	6.7
78-93-3	2-Butanone (MEK)	900		80	11
591-78-6	2-Hexanone	867		40	9.9
108-10-1	4-Methyl-2-pentanone (MIBK)	803		40	17
67-64-1	Acetone	831		80	24
71-43-2	Benzene	191		8.0	3.3
75-27-4	Bromodichloromethane	194		8.0	3.1
75-25-2	Bromoform	155		8.0	2.1
74-83-9	Bromomethane	195		8.0	5.5
75-15-0	Carbon disulfide	152		8.0	1.5
56-23-5	Carbon tetrachloride	205		8.0	2.2
108-90-7	Chlorobenzene	187		8.0	6.0
75-00-3	Chloroethane	202		8.0	2.6
67-66-3	Chloroform	183		8.0	2.7
74-87-3	Chloromethane	176		8.0	2.8
156-59-2	cis-1,2-Dichloroethene	244		8.0	6.5
10061-01-5	cis-1,3-Dichloropropene	169		8.0	2.9
110-82-7	Cyclohexane	195		8.0	1.4
124-48-1	Dibromochloromethane	180		8.0	2.6
75-71-8	Dichlorodifluoromethane	229		8.0	5.4
100-41-4	Ethylbenzene	184		8.0	5.9
98-82-8	Isopropylbenzene	190		8.0	6.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: A2-PZ-2 MS | Lab Sample ID: 480-107471-12 MS

Matrix: Water | Lab File ID: N8961.D

Analysis Method: 8260C | Date Collected: 10/11/2016 14:25

Sample wt/vol: 5(mL) | Date Analyzed: 10/17/2016 05:02

Soil Aliquot Vol: | Dilution Factor: 8

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 325887 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	788		20	10
1634-04-4	Methyl tert-butyl ether	168		8.0	1.3
108-87-2	Methylcyclohexane	183		8.0	1.3
75-09-2	Methylene Chloride	178		8.0	3.5
100-42-5	Styrene	176		8.0	5.8
127-18-4	Tetrachloroethene	555		8.0	2.9
108-88-3	Toluene	182		8.0	4.1
156-60-5	trans-1,2-Dichloroethene	186		8.0	7.2
10061-02-6	trans-1,3-Dichloropropene	166		8.0	3.0
79-01-6	Trichloroethene	382		8.0	3.7
75-69-4	Trichlorofluoromethane	235		8.0	7.0
75-01-4	Vinyl chloride	207		8.0	7.2
1330-20-7	Xylenes, Total	374		16	5.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		77-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161016-57327.b\N8961.D
Lims ID: 480-107471-B-12 MS
Client ID:
Sample Type: MS
Inject. Date: 17-Oct-2016 05:02:30 ALS Bottle#: 25 Worklist Smp#: 43
Purge Vol: 5.000 mL Dil. Factor: 8.0000
Sample Info: 480-107471-b-12 ms
Misc. Info.: 480-0057327-043
Operator ID: JG Instrument ID: HP5973N

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20161016-57327.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 17-Oct-2016 14:17:54 Calib Date: 06-Oct-2016 06:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: archern Date: 17-Oct-2016 14:19:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.528	5.528	0.000	99	105820	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.527	8.527	0.000	84	435499	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.906	10.906	0.000	92	249593	25.0	25.0	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.242	5.242	0.000	0	171572	25.0	26.3	
$ 6 Toluene-d8 (Surr)	98	7.043	7.043	0.000	92	531920	25.0	25.1	
$ 7 4-Bromofluorobenzene (Surr	174	9.774	9.774	0.000	95	197303	25.0	25.5	
11 Dichlorodifluoromethane	85	1.379	1.379	0.000	99	157103	25.0	28.6	
13 Chloromethane	50	1.525	1.525	0.000	100	171685	25.0	22.1	
14 Vinyl chloride	62	1.641	1.640	0.001	98	165974	25.0	25.9	
15 Bromomethane	94	1.939	1.932	0.007	91	109941	25.0	24.4	
16 Chloroethane	64	2.048	2.042	0.006	99	99991	25.0	25.3	
18 Trichlorofluoromethane	101	2.285	2.285	0.000	95	219914	25.0	29.4	
22 1,1-Dichloroethene	96	2.778	2.778	0.000	97	124033	25.0	22.0	
21 1,1,2-Trichloro-1,2,2-trif	101	2.784	2.790	-0.006	89	132339	25.0	24.0	
23 Acetone	43	2.876	2.869	0.007	97	247911	125.0	103.8	
25 Carbon disulfide	76	2.979	2.973	0.006	99	342182	25.0	19.1	
28 Methyl acetate	43	3.180	3.174	0.006	99	595842	125.0	98.5	
30 Methylene Chloride	84	3.277	3.277	0.000	95	146944	25.0	22.2	
32 Methyl tert-butyl ether	73	3.508	3.502	0.006	98	417697	25.0	21.0	
33 trans-1,2-Dichloroethene	96	3.514	3.514	0.000	96	150013	25.0	23.2	
36 1,1-Dichloroethane	63	3.922	3.922	0.000	97	249979	25.0	22.9	
43 cis-1,2-Dichloroethene	96	4.476	4.469	0.007	84	224566	25.0	30.5	
44 2-Butanone (MEK)	43	4.500	4.494	0.006	99	372130	125.0	112.5	
50 Chloroform	83	4.780	4.780	0.000	98	254820	25.0	22.9	
51 1,1,1-Trichloroethane	97	4.914	4.913	0.001	98	226008	25.0	25.6	
52 Cyclohexane	56	4.938	4.938	0.000	94	237287	25.0	24.4	
53 Carbon tetrachloride	117	5.060	5.059	0.001	96	205090	25.0	25.6	
55 Benzene	78	5.266	5.260	0.006	98	550661	25.0	23.9	
57 1,2-Dichloroethane	62	5.315	5.315	0.000	97	217282	25.0	25.4	
60 Trichloroethene	95	5.875	5.875	0.000	94	281543	25.0	47.7	
62 Methylcyclohexane	83	6.015	6.021	-0.006	92	238474	25.0	22.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
63 1,2-Dichloropropane	63	6.100	6.100	0.000	88	120925	25.0	22.6	
67 Dichlorobromomethane	83	6.386	6.386	0.000	97	176057	25.0	24.3	
71 cis-1,3-Dichloropropene	75	6.806	6.805	0.001	90	185853	25.0	21.1	
72 4-Methyl-2-pentanone (MIBK	58	6.945	6.951	-0.006	98	262254	125.0	100.3	
73 Toluene	92	7.110	7.110	0.000	98	343921	25.0	22.8	
75 trans-1,3-Dichloropropene	75	7.365	7.371	-0.006	98	166713	25.0	20.8	
78 1,1,2-Trichloroethane	83	7.554	7.560	-0.006	93	97661	25.0	22.5	
79 Tetrachloroethene	166	7.651	7.651	0.000	98	482366	25.0	69.4	
82 2-Hexanone	43	7.791	7.791	0.000	98	471275	125.0	108.3	
83 Chlorodibromomethane	129	7.961	7.961	0.000	90	140856	25.0	22.5	
84 Ethylene Dibromide	107	8.065	8.065	0.000	98	133347	25.0	22.6	
85 Chlorobenzene	112	8.558	8.557	0.001	96	403397	25.0	23.4	
88 Ethylbenzene	91	8.655	8.655	0.000	98	623702	25.0	23.0	
90 m-Xylene & p-Xylene	106	8.777	8.776	0.001	0	268472		23.6	
91 o-Xylene	106	9.202	9.202	0.000	95	270233		23.2	
92 Styrene	104	9.227	9.227	0.000	96	416791	25.0	22.0	
93 Bromoform	173	9.458	9.458	0.000	97	75234	25.0	19.3	
95 Isopropylbenzene	105	9.586	9.586	0.000	95	664670	25.0	23.8	
98 1,1,2,2-Tetrachloroethane	83	9.957	9.957	0.000	97	153211	25.0	19.4	
110 1,3-Dichlorobenzene	146	10.845	10.845	0.000	98	376731	25.0	23.4	
113 1,4-Dichlorobenzene	146	10.930	10.930	0.000	97	385606	25.0	24.1	
116 1,2-Dichlorobenzene	146	11.277	11.277	0.000	98	359382	25.0	23.5	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	87	23375	25.0	16.6	
119 1,2,4-Trichlorobenzene	180	12.688	12.688	0.000	95	197624	25.0	22.7	
S 126 Xylenes, Total	1				0			46.8	

Reagents:

8260 CORP mix_00083	Amount Added: 12.50	Units: uL	
GAS CORP mix_00183	Amount Added: 12.50	Units: uL	
N_8260_Surr_00211	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00038	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 17-Oct-2016 14:19:38 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161016-57327.b\N8961.D

Injection Date: 17-Oct-2016 05:02:30 Instrument ID: HP5973N Operator ID: JG

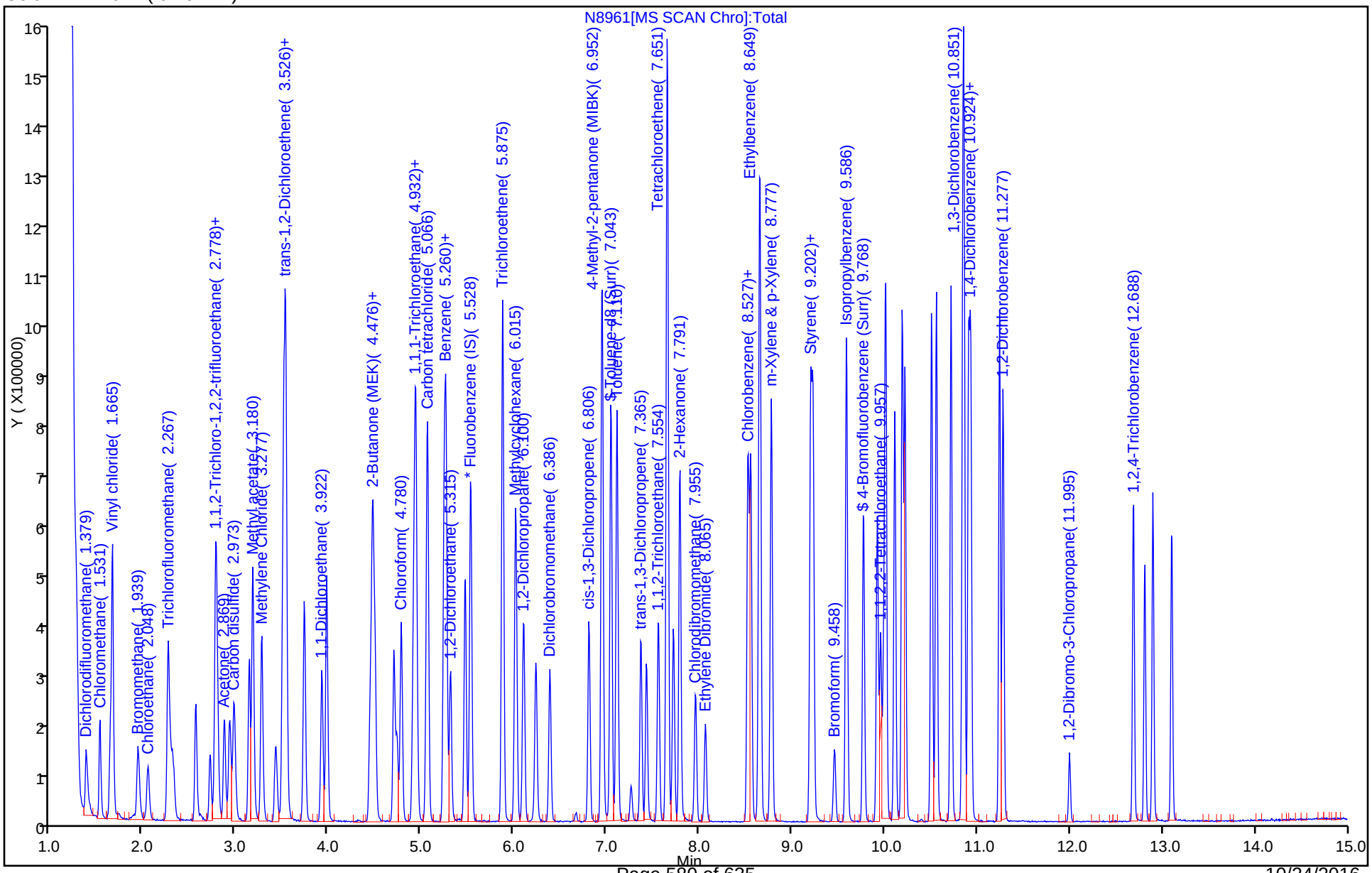
Lims ID: 480-107471-B-12 MS Worklist Smp#: 43

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 8.0000 ALS Bottle#: 25

Method: N-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Recovery Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161016-57327.b\N8961.D
Lims ID: 480-107471-B-12 MS
Client ID:
Sample Type: MS
Inject. Date: 17-Oct-2016 05:02:30 ALS Bottle#: 25 Worklist Smp#: 43
Purge Vol: 5.000 mL Dil. Factor: 8.0000
Sample Info: 480-107471-b-12 ms
Misc. Info.: 480-0057327-043
Operator ID: JG Instrument ID: HP5973N

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20161016-57327.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 17-Oct-2016 14:17:54 Calib Date: 06-Oct-2016 06:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: archern Date: 17-Oct-2016 14:19:37

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	26.3	105.27
$ 6 Toluene-d8 (Surr)	25.0	25.1	100.23
$ 7 4-Bromofluorobenzene (Surr)	25.0	25.5	101.88
$ 4 BFB	0.0	0	0.00

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: MW-2MS MS | Lab Sample ID: 480-107471-14 MS

Matrix: Water | Lab File ID: P1435.D

Analysis Method: 8260C | Date Collected: 10/10/2016 16:50

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2016 07:04

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.: 325765 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	34.8		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	23.2		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	33.2		1.0	0.31
79-00-5	1,1,2-Trichloroethane	26.7		1.0	0.23
75-34-3	1,1-Dichloroethane	32.4		1.0	0.38
75-35-4	1,1-Dichloroethene	31.1		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	23.6		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	21.7		1.0	0.39
106-93-4	1,2-Dibromoethane	27.5		1.0	0.73
95-50-1	1,2-Dichlorobenzene	26.1		1.0	0.79
107-06-2	1,2-Dichloroethane	32.3		1.0	0.21
78-87-5	1,2-Dichloropropane	26.1		1.0	0.72
541-73-1	1,3-Dichlorobenzene	25.5		1.0	0.78
106-46-7	1,4-Dichlorobenzene	26.1		1.0	0.84
78-93-3	2-Butanone (MEK)	115		10	1.3
591-78-6	2-Hexanone	121		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	115		5.0	2.1
67-64-1	Acetone	135		10	3.0
71-43-2	Benzene	28.0		1.0	0.41
75-27-4	Bromodichloromethane	31.3		1.0	0.39
75-25-2	Bromoform	27.8		1.0	0.26
74-83-9	Bromomethane	46.9		1.0	0.69
75-15-0	Carbon disulfide	34.5		1.0	0.19
56-23-5	Carbon tetrachloride	38.6		1.0	0.27
108-90-7	Chlorobenzene	28.7		1.0	0.75
75-00-3	Chloroethane	38.7		1.0	0.32
67-66-3	Chloroform	31.9		1.0	0.34
74-87-3	Chloromethane	24.6		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	36.2		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	25.2		1.0	0.36
110-82-7	Cyclohexane	26.3		1.0	0.18
124-48-1	Dibromochloromethane	30.2		1.0	0.32
75-71-8	Dichlorodifluoromethane	28.7		1.0	0.68
100-41-4	Ethylbenzene	27.9		1.0	0.74
98-82-8	Isopropylbenzene	23.7		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: MW-2MS MS | Lab Sample ID: 480-107471-14 MS

Matrix: Water | Lab File ID: P1435.D

Analysis Method: 8260C | Date Collected: 10/10/2016 16:50

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2016 07:04

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.: 325765 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	114		2.5	1.3
1634-04-4	Methyl tert-butyl ether	27.4		1.0	0.16
108-87-2	Methylcyclohexane	24.7		1.0	0.16
75-09-2	Methylene Chloride	29.8		1.0	0.44
100-42-5	Styrene	26.5		1.0	0.73
127-18-4	Tetrachloroethene	30.2		1.0	0.36
108-88-3	Toluene	26.1		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	31.7		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	27.1		1.0	0.37
79-01-6	Trichloroethene	29.2		1.0	0.46
75-69-4	Trichlorofluoromethane	39.4		1.0	0.88
75-01-4	Vinyl chloride	39.7		1.0	0.90
1330-20-7	Xylenes, Total	53.6		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		77-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57299.b\P1435.D
Lims ID: 480-107471-B-14 MS
Client ID: MW-2MS
Sample Type: MS
Inject. Date: 15-Oct-2016 07:04:30 ALS Bottle#: 23 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-107471-B-14 MS
Misc. Info.: 480-0057299-021
Operator ID: SY Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57299.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 15-Oct-2016 13:39:15 Calib Date: 15-Sep-2016 21:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: farrellr Date: 15-Oct-2016 13:39:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.827	9.821	0.006	98	91802	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.764	13.764	0.000	85	192393	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.751	16.751	0.000	95	235970	25.0	25.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.450	9.456	-0.006	0	81748	25.0	27.8	
$ 5 Toluene-d8 (Surr)	98	11.799	11.799	0.000	94	420339	25.0	24.6	
$ 6 4-Bromofluorobenzene (Surr	174	15.278	15.272	0.006	89	154098	25.0	26.3	
10 Dichlorodifluoromethane	85	3.981	3.987	-0.006	98	219131	25.0	28.7	
11 Chloromethane	50	4.310	4.322	-0.012	99	196808	25.0	24.6	
17 Vinyl chloride	62	4.529	4.535	-0.006	97	230025	25.0	39.7	
12 Bromomethane	94	5.082	5.094	-0.012	94	116837	25.0	46.9	
13 Chloroethane	64	5.210	5.210	0.000	96	119458	25.0	38.7	
14 Trichlorofluoromethane	101	5.605	5.611	-0.006	97	422453	25.0	39.4	
16 1,1,2-Trichloro-1,2,2-trif	101	6.238	6.250	-0.012	94	235287	25.0	33.2	
25 1,1-Dichloroethene	96	6.293	6.293	0.000	93	192118	25.0	31.1	
24 Acetone	43	6.323	6.323	0.000	98	508861	125.0	135.0	
27 Carbon disulfide	76	6.670	6.670	0.000	100	719774	25.0	34.5	
30 Methyl acetate	43	6.701	6.700	0.001	100	1130254	125.0	114.3	
31 Methylene Chloride	84	6.907	6.913	-0.006	94	192940	25.0	29.8	
32 Methyl tert-butyl ether	73	7.163	7.163	0.000	99	574332	25.0	27.4	
35 trans-1,2-Dichloroethene	96	7.236	7.230	0.006	93	204900	25.0	31.7	
40 1,1-Dichloroethane	63	7.753	7.753	0.000	97	443012	25.0	32.4	
44 2-Butanone (MEK)	43	8.404	8.398	0.006	98	771026	125.0	115.4	
43 cis-1,2-Dichloroethene	96	8.453	8.452	0.001	85	257021	25.0	36.2	
49 Chloroform	83	8.805	8.805	0.000	95	350573	25.0	31.9	
52 1,1,1-Trichloroethane	97	9.073	9.067	0.006	98	344705	25.0	34.8	
54 Cyclohexane	56	9.140	9.134	0.006	96	405811	25.0	26.3	
55 Carbon tetrachloride	117	9.274	9.274	0.000	96	357614	25.0	38.6	
57 Benzene	78	9.523	9.517	0.006	97	700082	25.0	28.0	
60 1,2-Dichloroethane	62	9.548	9.541	0.007	97	334493	25.0	32.3	
62 Trichloroethene	95	10.278	10.271	0.007	94	197810	25.0	29.2	
64 Methylcyclohexane	83	10.509	10.509	0.000	96	273616	25.0	24.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
63 1,2-Dichloropropane	63	10.582	10.582	0.000	90	190389	25.0	26.1	
70 Dichlorobromomethane	83	10.916	10.904	0.012	96	251394	25.0	31.3	
73 cis-1,3-Dichloropropene	75	11.446	11.446	0.000	90	261266	25.0	25.2	
75 4-Methyl-2-pentanone (MIBK	43	11.555	11.555	0.000	99	1564010	125.0	114.7	
76 Toluene	92	11.890	11.884	0.006	98	438853	25.0	26.1	
78 trans-1,3-Dichloropropene	75	12.151	12.145	0.006	98	270597	25.0	27.1	
79 1,1,2-Trichloroethane	83	12.431	12.425	0.006	95	139788	25.0	26.7	
80 Tetrachloroethene	166	12.638	12.632	0.006	94	219323	25.0	30.2	
83 2-Hexanone	43	12.644	12.638	0.006	98	1131324	125.0	120.7	
81 Chlorodibromomethane	129	13.015	13.015	0.000	90	215242	25.0	30.2	
85 Ethylene Dibromide	107	13.210	13.210	0.000	98	197912	25.0	27.5	
87 Chlorobenzene	112	13.806	13.800	0.006	94	538670	25.0	28.7	
89 Ethylbenzene	91	13.867	13.867	0.000	98	851450	25.0	27.9	
90 m-Xylene & p-Xylene	106	14.007	14.007	0.000	0	349511		26.8	
93 o-Xylene	106	14.561	14.560	0.000	98	346567		26.8	
94 Styrene	104	14.579	14.579	0.000	94	541528	25.0	26.5	
92 Bromoform	173	14.932	14.931	0.001	96	132921	25.0	27.8	
95 Isopropylbenzene	105	15.005	14.998	0.007	96	900972	25.0	23.7	
97 1,1,2,2-Tetrachloroethane	83	15.424	15.424	0.000	97	265264	25.0	23.2	
110 1,3-Dichlorobenzene	146	16.678	16.677	0.001	98	492584	25.0	25.5	
111 1,4-Dichlorobenzene	146	16.781	16.781	0.000	94	504085	25.0	26.1	
116 1,2-Dichlorobenzene	146	17.268	17.267	0.001	98	505388	25.0	26.1	
117 1,2-Dibromo-3-Chloropropan	75	18.247	18.241	0.006	81	66630	25.0	21.7	
119 1,2,4-Trichlorobenzene	180	19.318	19.318	0.000	93	341358	25.0	23.6	
S 126 Xylenes, Total	1				0			53.6	

Reagents:

8260 CORP mix_00083	Amount Added: 12.50	Units: uL	
GAS CORP mix_00183	Amount Added: 12.50	Units: uL	
P 8260 IS_00173	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00197	Amount Added: 1.25	Units: uL	Run Reagent

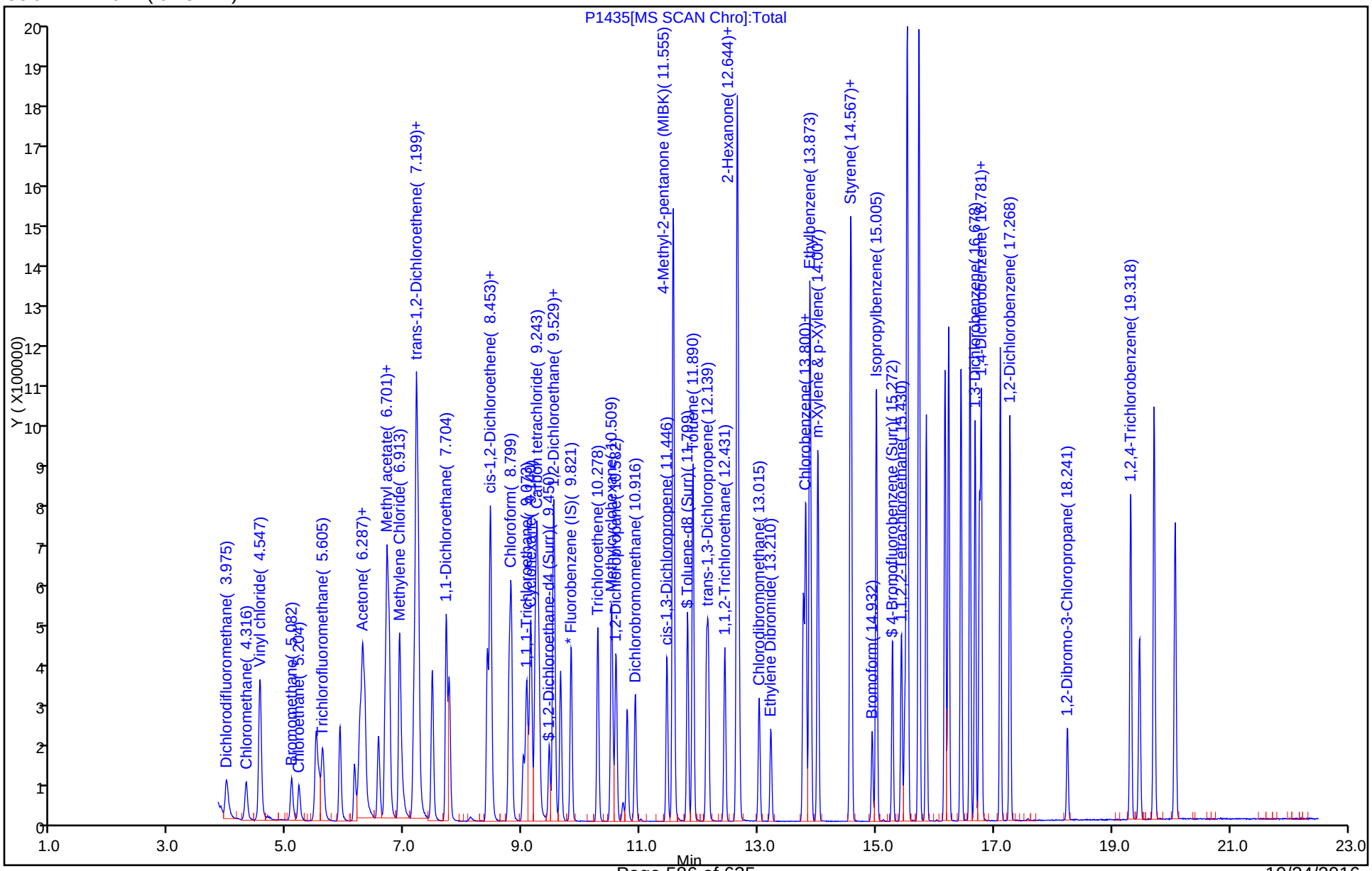
Report Date: 15-Oct-2016 13:39:38 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57299.b\P1435.D

Injection Date:	15-Oct-2016 07:04:30	Instrument ID:	HP5973P	Operator ID:	SY
Lims ID:	480-107471-B-14 MS			Worklist Smp#:	21
Client ID:	MW-2MS				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Recovery Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57299.b\P1435.D				
Lims ID:	480-107471-B-14 MS				
Client ID:	MW-2MS				
Sample Type:	MS				
Inject. Date:	15-Oct-2016 07:04:30	ALS Bottle#:	23	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	480-107471-B-14 MS				
Misc. Info.:	480-0057299-021				
Operator ID:	SY	Instrument ID:	HP5973P		

Method:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57299.b\P-8260H2O.m		
Limit Group:	MV - 8260C ICAL		
Last Update:	15-Oct-2016 13:39:15	Calib Date:	15-Sep-2016 21:21:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D		

Column 1 :	ZB-624 (0.25 mm)	Det: MS SCAN
Process Host:	XAWRK030	

First Level Reviewer: farrellr Date: 15-Oct-2016 13:39:38

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	27.8	111.13
$ 5 Toluene-d8 (Surr)	25.0	24.6	98.41
$ 6 4-Bromofluorobenzene (Surr)	25.0	26.3	105.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: A2-PZ-1 MSD | Lab Sample ID: 480-107471-11 MSD

Matrix: Water | Lab File ID: N8992.D

Analysis Method: 8260C | Date Collected: 10/11/2016 11:25

Sample wt/vol: 5(mL) | Date Analyzed: 10/17/2016 19:32

Soil Aliquot Vol: | Dilution Factor: 200

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 325955 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	4880		200	160
79-34-5	1,1,2,2-Tetrachloroethane	3880		200	42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4710		200	62
79-00-5	1,1,2-Trichloroethane	4160		200	46
75-34-3	1,1-Dichloroethane	4750		200	76
75-35-4	1,1-Dichloroethene	4190		200	58
120-82-1	1,2,4-Trichlorobenzene	4590		200	82
96-12-8	1,2-Dibromo-3-Chloropropane	3510		200	78
106-93-4	1,2-Dibromoethane	4450		200	150
95-50-1	1,2-Dichlorobenzene	4610		200	160
107-06-2	1,2-Dichloroethane	4810		200	42
78-87-5	1,2-Dichloropropane	4530		200	140
541-73-1	1,3-Dichlorobenzene	4540		200	160
106-46-7	1,4-Dichlorobenzene	4610		200	170
78-93-3	2-Butanone (MEK)	23100		2000	260
591-78-6	2-Hexanone	23500		1000	250
108-10-1	4-Methyl-2-pentanone (MIBK)	21100		1000	420
67-64-1	Acetone	23400		2000	600
71-43-2	Benzene	4480		200	82
75-27-4	Bromodichloromethane	4670		200	78
75-25-2	Bromoform	4200		200	52
74-83-9	Bromomethane	4890		200	140
75-15-0	Carbon disulfide	3760		200	38
56-23-5	Carbon tetrachloride	4860		200	54
108-90-7	Chlorobenzene	4520		200	150
75-00-3	Chloroethane	4840		200	64
67-66-3	Chloroform	4350		200	68
74-87-3	Chloromethane	4460		200	70
156-59-2	cis-1,2-Dichloroethene	14600		200	160
10061-01-5	cis-1,3-Dichloropropene	4310		200	72
110-82-7	Cyclohexane	4540		200	36
124-48-1	Dibromochloromethane	4530		200	64
75-71-8	Dichlorodifluoromethane	5560		200	140
100-41-4	Ethylbenzene	4330		200	150
98-82-8	Isopropylbenzene	4460		200	160

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: A2-PZ-1 MSD | Lab Sample ID: 480-107471-11 MSD

Matrix: Water | Lab File ID: N8992.D

Analysis Method: 8260C | Date Collected: 10/11/2016 11:25

Sample wt/vol: 5(mL) | Date Analyzed: 10/17/2016 19:32

Soil Aliquot Vol: | Dilution Factor: 200

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 325955 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	20900		500	260
1634-04-4	Methyl tert-butyl ether	4250		200	32
108-87-2	Methylcyclohexane	4440		200	32
75-09-2	Methylene Chloride	4350		200	88
100-42-5	Styrene	4420		200	150
127-18-4	Tetrachloroethene	5020		200	72
108-88-3	Toluene	4370		200	100
156-60-5	trans-1,2-Dichloroethene	4370		200	180
10061-02-6	trans-1,3-Dichloropropene	4170		200	74
79-01-6	Trichloroethene	5320		200	92
75-69-4	Trichlorofluoromethane	5510		200	180
75-01-4	Vinyl chloride	5370		200	180
1330-20-7	Xylenes, Total	8810		400	130

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		77-120
460-00-4	4-Bromofluorobenzene (Surr)	103		73-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161017-57336.b\N8992.D
Lims ID: 480-107471-C-11 MSD
Client ID:
Sample Type: MSD
Inject. Date: 17-Oct-2016 19:32:30 ALS Bottle#: 27 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 200.0000
Sample Info: 480-107471-C-11 MSD
Misc. Info.: 480-0057336-027
Operator ID: NEA Instrument ID: HP5973N

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20161017-57336.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 17-Oct-2016 17:49:55 Calib Date: 06-Oct-2016 06:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK035

First Level Reviewer: youngmans Date: 17-Oct-2016 20:02:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.528	5.534	-0.006	99	103956	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.527	8.527	0.000	84	434947	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.906	10.906	0.000	92	252414	25.0	25.0	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.242	5.242	0.000	0	174278	25.0	27.2	
$ 6 Toluene-d8 (Surr)	98	7.043	7.049	-0.006	93	535492	25.0	25.3	
$ 7 4-Bromofluorobenzene (Surr	174	9.774	9.774	0.000	95	198539	25.0	25.7	
11 Dichlorodifluoromethane	85	1.379	1.379	0.000	100	149708	25.0	27.8	
13 Chloromethane	50	1.525	1.525	0.000	99	170497	25.0	22.3	
14 Vinyl chloride	62	1.635	1.640	-0.006	98	168886	25.0	26.8	
15 Bromomethane	94	1.933	1.932	0.001	91	108176	25.0	24.5	
16 Chloroethane	64	2.042	2.042	0.000	98	93993	25.0	24.2	
18 Trichlorofluoromethane	101	2.279	2.279	0.000	93	202370	25.0	27.6	
22 1,1-Dichloroethene	96	2.778	2.778	0.000	98	116035	25.0	20.9	
21 1,1,2-Trichloro-1,2,2-trif	101	2.784	2.784	0.000	92	127520	25.0	23.6	
23 Acetone	43	2.869	2.869	0.000	98	273889	125.0	116.8	
25 Carbon disulfide	76	2.973	2.973	0.000	100	331359	25.0	18.8	
28 Methyl acetate	43	3.174	3.180	-0.006	99	620150	125.0	104.4	
30 Methylene Chloride	84	3.271	3.271	0.000	95	141641	25.0	21.8	
32 Methyl tert-butyl ether	73	3.502	3.508	-0.006	99	416226	25.0	21.3	
33 trans-1,2-Dichloroethene	96	3.514	3.514	0.000	98	138826	25.0	21.9	
36 1,1-Dichloroethane	63	3.922	3.922	0.000	98	254692	25.0	23.8	
43 cis-1,2-Dichloroethene	96	4.476	4.475	0.001	82	527243	25.0	73.0	
44 2-Butanone (MEK)	43	4.494	4.494	0.000	99	374941	125.0	115.4	
50 Chloroform	83	4.780	4.779	0.001	97	237500	25.0	21.8	
51 1,1,1-Trichloroethane	97	4.914	4.913	0.001	98	211518	25.0	24.4	
52 Cyclohexane	56	4.938	4.938	0.000	95	216859	25.0	22.7	
53 Carbon tetrachloride	117	5.060	5.059	0.001	96	190929	25.0	24.3	
55 Benzene	78	5.266	5.266	0.000	98	507611	25.0	22.4	
57 1,2-Dichloroethane	62	5.309	5.315	-0.006	98	201881	25.0	24.1	
60 Trichloroethene	95	5.875	5.875	0.000	94	154210	25.0	26.6	
62 Methylcyclohexane	83	6.015	6.021	-0.006	92	227056	25.0	22.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
63 1,2-Dichloropropane	63	6.100	6.106	-0.006	87	119244	25.0	22.7	
67 Dichlorobromomethane	83	6.386	6.386	0.000	98	166437	25.0	23.4	
71 cis-1,3-Dichloropropene	75	6.806	6.805	0.001	90	186519	25.0	21.6	
72 4-Methyl-2-pentanone (MIBK	58	6.952	6.951	0.001	97	275011	125.0	105.4	
73 Toluene	92	7.110	7.110	0.000	98	329544	25.0	21.9	
75 trans-1,3-Dichloropropene	75	7.365	7.371	-0.006	98	167302	25.0	20.9	
78 1,1,2-Trichloroethane	83	7.554	7.554	0.000	92	90244	25.0	20.8	
79 Tetrachloroethene	166	7.657	7.651	0.006	98	174085	25.0	25.1	
82 2-Hexanone	43	7.791	7.791	0.000	98	509981	125.0	117.4	
83 Chlorodibromomethane	129	7.955	7.955	0.000	90	141996	25.0	22.7	
84 Ethylene Dibromide	107	8.065	8.065	0.000	100	130768	25.0	22.2	
85 Chlorobenzene	112	8.552	8.557	-0.005	96	388965	25.0	22.6	
88 Ethylbenzene	91	8.655	8.655	0.000	98	587444	25.0	21.7	
90 m-Xylene & p-Xylene	106	8.777	8.776	0.001	0	249848		22.0	
91 o-Xylene	106	9.202	9.202	0.000	95	257561		22.1	
92 Styrene	104	9.227	9.227	0.000	96	417583	25.0	22.1	
93 Bromoform	173	9.458	9.458	0.000	97	81605	25.0	21.0	
95 Isopropylbenzene	105	9.586	9.586	0.000	96	631661	25.0	22.3	
98 1,1,2,2-Tetrachloroethane	83	9.957	9.957	0.000	97	155129	25.0	19.4	
110 1,3-Dichlorobenzene	146	10.845	10.845	0.000	98	369532	25.0	22.7	
113 1,4-Dichlorobenzene	146	10.930	10.930	0.000	97	372410	25.0	23.0	
116 1,2-Dichlorobenzene	146	11.277	11.277	0.000	98	356863	25.0	23.1	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	84	25026	25.0	17.6	
119 1,2,4-Trichlorobenzene	180	12.688	12.688	0.000	95	202607	25.0	23.0	
S 126 Xylenes, Total	1				0			44.1	

Reagents:

8260 CORP mix_00083	Amount Added: 12.50	Units: uL	
GAS CORP mix_00184	Amount Added: 12.50	Units: uL	
N_8260_Surr_00211	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00038	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 21-Oct-2016 17:03:53 Chrom Revision: 2.2 17-Oct-2016 09:27:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161017-57336.b\N8992.D

Injection Date: 17-Oct-2016 19:32:30 Instrument ID: HP5973N Operator ID: NEA

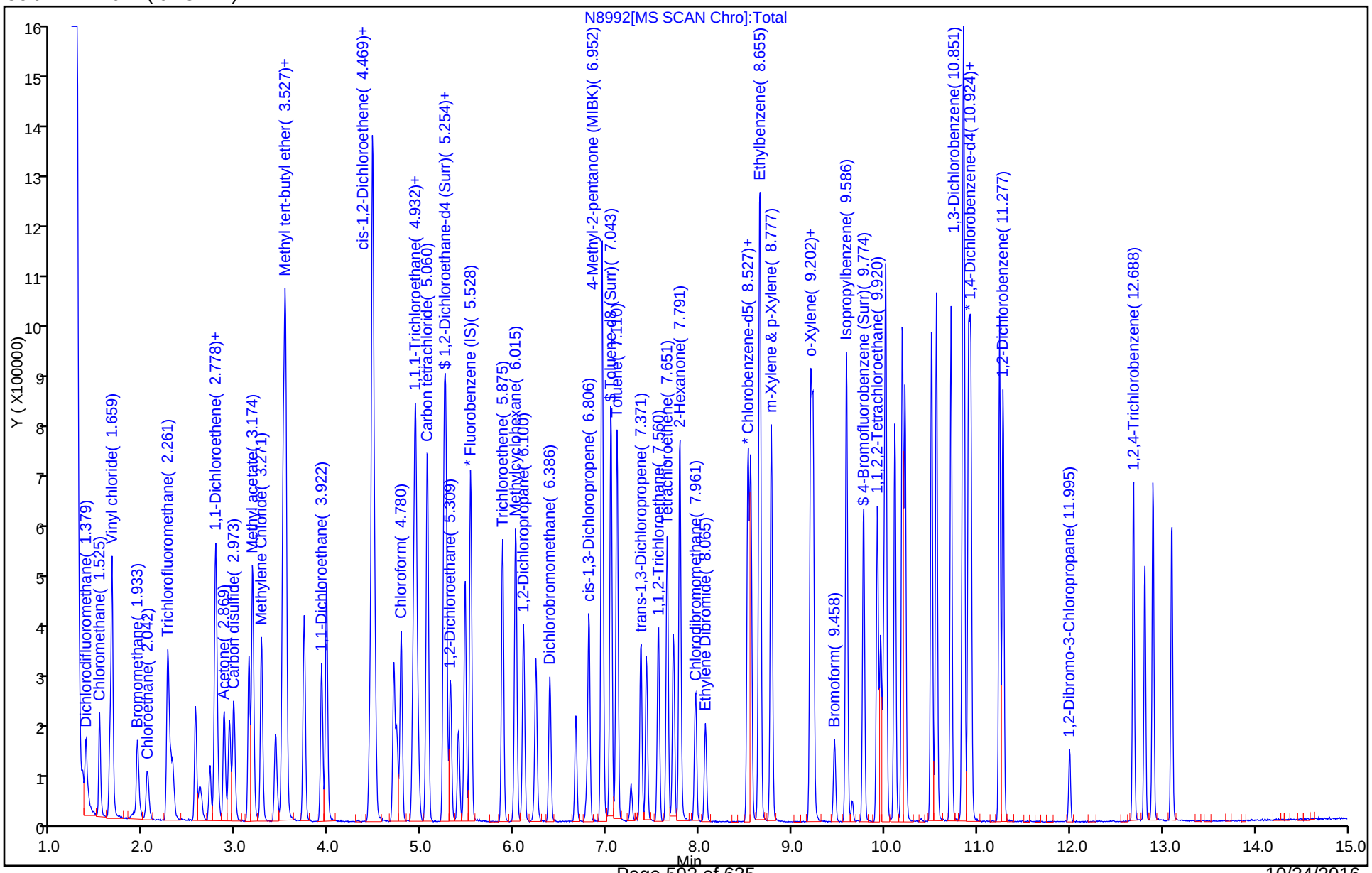
Lims ID: 480-107471-C-11 MSD Worklist Smp#: 27

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 200.0000 ALS Bottle#: 27

Method: N-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Recovery Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161017-57336.b\N8992.D
Lims ID: 480-107471-C-11 MSD
Client ID:
Sample Type: MSD
Inject. Date: 17-Oct-2016 19:32:30 ALS Bottle#: 27 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 200.0000
Sample Info: 480-107471-C-11 MSD
Misc. Info.: 480-0057336-027
Operator ID: NEA Instrument ID: HP5973N

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20161017-57336.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 17-Oct-2016 17:49:55 Calib Date: 06-Oct-2016 06:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK035

First Level Reviewer: youngmans Date: 17-Oct-2016 20:02:59

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	27.2	108.84
$ 6 Toluene-d8 (Surr)	25.0	25.3	101.03
$ 7 4-Bromofluorobenzene (Surr)	25.0	25.7	102.65

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: A2-PZ-2 MSD | Lab Sample ID: 480-107471-12 MSD

Matrix: Water | Lab File ID: N8962.D

Analysis Method: 8260C | Date Collected: 10/11/2016 14:25

Sample wt/vol: 5(mL) | Date Analyzed: 10/17/2016 05:29

Soil Aliquot Vol: | Dilution Factor: 8

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 325887 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	203		8.0	6.6
79-34-5	1,1,2,2-Tetrachloroethane	159		8.0	1.7
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	191		8.0	2.5
79-00-5	1,1,2-Trichloroethane	180		8.0	1.8
75-34-3	1,1-Dichloroethane	179		8.0	3.0
75-35-4	1,1-Dichloroethene	177		8.0	2.3
120-82-1	1,2,4-Trichlorobenzene	202		8.0	3.3
96-12-8	1,2-Dibromo-3-Chloropropane	142		8.0	3.1
106-93-4	1,2-Dibromoethane	183		8.0	5.8
95-50-1	1,2-Dichlorobenzene	190		8.0	6.3
107-06-2	1,2-Dichloroethane	197		8.0	1.7
78-87-5	1,2-Dichloropropane	188		8.0	5.8
541-73-1	1,3-Dichlorobenzene	186		8.0	6.2
106-46-7	1,4-Dichlorobenzene	191		8.0	6.7
78-93-3	2-Butanone (MEK)	906		80	11
591-78-6	2-Hexanone	890		40	9.9
108-10-1	4-Methyl-2-pentanone (MIBK)	819		40	17
67-64-1	Acetone	842		80	24
71-43-2	Benzene	187		8.0	3.3
75-27-4	Bromodichloromethane	192		8.0	3.1
75-25-2	Bromoform	155		8.0	2.1
74-83-9	Bromomethane	195		8.0	5.5
75-15-0	Carbon disulfide	150		8.0	1.5
56-23-5	Carbon tetrachloride	205		8.0	2.2
108-90-7	Chlorobenzene	183		8.0	6.0
75-00-3	Chloroethane	203		8.0	2.6
67-66-3	Chloroform	178		8.0	2.7
74-87-3	Chloromethane	177		8.0	2.8
156-59-2	cis-1,2-Dichloroethene	245		8.0	6.5
10061-01-5	cis-1,3-Dichloropropene	170		8.0	2.9
110-82-7	Cyclohexane	192		8.0	1.4
124-48-1	Dibromochloromethane	176		8.0	2.6
75-71-8	Dichlorodifluoromethane	230		8.0	5.4
100-41-4	Ethylbenzene	183		8.0	5.9
98-82-8	Isopropylbenzene	187		8.0	6.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: A2-PZ-2 MSD | Lab Sample ID: 480-107471-12 MSD

Matrix: Water | Lab File ID: N8962.D

Analysis Method: 8260C | Date Collected: 10/11/2016 14:25

Sample wt/vol: 5(mL) | Date Analyzed: 10/17/2016 05:29

Soil Aliquot Vol: | Dilution Factor: 8

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 325887 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	807		20	10
1634-04-4	Methyl tert-butyl ether	167		8.0	1.3
108-87-2	Methylcyclohexane	182		8.0	1.3
75-09-2	Methylene Chloride	173		8.0	3.5
100-42-5	Styrene	177		8.0	5.8
127-18-4	Tetrachloroethene	535		8.0	2.9
108-88-3	Toluene	182		8.0	4.1
156-60-5	trans-1,2-Dichloroethene	179		8.0	7.2
10061-02-6	trans-1,3-Dichloropropene	164		8.0	3.0
79-01-6	Trichloroethene	381		8.0	3.7
75-69-4	Trichlorofluoromethane	236		8.0	7.0
75-01-4	Vinyl chloride	200		8.0	7.2
1330-20-7	Xylenes, Total	368		16	5.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161016-57327.b\N8962.D
Lims ID: 480-107471-B-12 MSD
Client ID:
Sample Type: MSD
Inject. Date: 17-Oct-2016 05:29:30 ALS Bottle#: 26 Worklist Smp#: 44
Purge Vol: 5.000 mL Dil. Factor: 8.0000
Sample Info: 480-107471-b-12 msd
Misc. Info.: 480-0057327-044
Operator ID: JG Instrument ID: HP5973N

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20161016-57327.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 17-Oct-2016 14:17:54 Calib Date: 06-Oct-2016 06:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: archern Date: 17-Oct-2016 14:20:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.528	5.528	0.000	99	105619	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.527	8.527	0.000	84	444240	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.906	10.906	0.000	93	254414	25.0	25.0	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.242	5.242	0.000	0	177800	25.0	27.3	
$ 6 Toluene-d8 (Surr)	98	7.043	7.043	0.000	93	541329	25.0	25.0	
$ 7 4-Bromofluorobenzene (Surr	174	9.774	9.774	0.000	96	198501	25.0	25.1	
11 Dichlorodifluoromethane	85	1.379	1.379	0.000	99	157113	25.0	28.7	
13 Chloromethane	50	1.525	1.525	0.000	99	172392	25.0	22.2	
14 Vinyl chloride	62	1.634	1.640	-0.006	99	159956	25.0	25.0	
15 Bromomethane	94	1.932	1.932	0.000	92	109730	25.0	24.4	
16 Chloroethane	64	2.042	2.042	0.000	98	100370	25.0	25.4	
18 Trichlorofluoromethane	101	2.273	2.285	-0.012	97	220076	25.0	29.5	
22 1,1-Dichloroethene	96	2.778	2.778	0.000	98	124501	25.0	22.1	
21 1,1,2-Trichloro-1,2,2-trif	101	2.790	2.790	0.000	85	131033	25.0	23.8	
23 Acetone	43	2.869	2.869	0.000	98	250770	125.0	105.2	
25 Carbon disulfide	76	2.973	2.973	0.000	100	336319	25.0	18.8	
28 Methyl acetate	43	3.174	3.174	0.000	99	608678	125.0	100.8	
30 Methylene Chloride	84	3.277	3.277	0.000	96	143233	25.0	21.7	
32 Methyl tert-butyl ether	73	3.508	3.502	0.006	99	415663	25.0	20.9	
33 trans-1,2-Dichloroethene	96	3.514	3.514	0.000	98	144511	25.0	22.4	
36 1,1-Dichloroethane	63	3.922	3.922	0.000	98	243961	25.0	22.4	
43 cis-1,2-Dichloroethene	96	4.469	4.469	0.000	84	224599	25.0	30.6	
44 2-Butanone (MEK)	43	4.494	4.494	0.000	99	374099	125.0	113.3	
50 Chloroform	83	4.780	4.780	0.000	98	246167	25.0	22.2	
51 1,1,1-Trichloroethane	97	4.913	4.913	0.000	98	223759	25.0	25.4	
52 Cyclohexane	56	4.938	4.938	0.000	93	233113	25.0	24.0	
53 Carbon tetrachloride	117	5.059	5.059	0.000	97	204166	25.0	25.6	
55 Benzene	78	5.266	5.260	0.006	98	536658	25.0	23.3	
57 1,2-Dichloroethane	62	5.315	5.315	0.000	97	210433	25.0	24.7	
60 Trichloroethene	95	5.875	5.875	0.000	95	280777	25.0	47.7	
62 Methylcyclohexane	83	6.021	6.021	0.000	92	236279	25.0	22.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
63 1,2-Dichloropropane	63	6.106	6.100	0.006	89	125382	25.0	23.5	
67 Dichlorobromomethane	83	6.386	6.386	0.000	97	174139	25.0	24.1	
71 cis-1,3-Dichloropropene	75	6.811	6.805	0.006	90	186697	25.0	21.2	
72 4-Methyl-2-pentanone (MIBK	58	6.951	6.951	0.000	98	272836	125.0	102.3	
73 Toluene	92	7.110	7.110	0.000	98	349910	25.0	22.7	
75 trans-1,3-Dichloropropene	75	7.365	7.371	-0.006	98	168343	25.0	20.5	
78 1,1,2-Trichloroethane	83	7.554	7.560	-0.006	93	99693	25.0	22.5	
79 Tetrachloroethene	166	7.657	7.651	0.006	98	474533	25.0	66.9	
82 2-Hexanone	43	7.791	7.791	0.000	97	493756	125.0	111.3	
83 Chlorodibromomethane	129	7.955	7.961	-0.006	91	140425	25.0	22.0	
84 Ethylene Dibromide	107	8.065	8.065	0.000	96	137525	25.0	22.9	
85 Chlorobenzene	112	8.551	8.557	-0.006	96	400590	25.0	22.8	
88 Ethylbenzene	91	8.655	8.655	0.000	98	633034	25.0	22.9	
90 m-Xylene & p-Xylene	106	8.776	8.776	0.000	0	267905		23.1	
91 o-Xylene	106	9.202	9.202	0.000	96	272548		22.9	
92 Styrene	104	9.227	9.227	0.000	95	426031	25.0	22.1	
93 Bromoform	173	9.458	9.458	0.000	96	76897	25.0	19.4	
95 Isopropylbenzene	105	9.592	9.586	0.006	95	667940	25.0	23.4	
98 1,1,2,2-Tetrachloroethane	83	9.957	9.957	0.000	97	160029	25.0	19.9	
110 1,3-Dichlorobenzene	146	10.845	10.845	0.000	99	382608	25.0	23.3	
113 1,4-Dichlorobenzene	146	10.930	10.930	0.000	96	388448	25.0	23.9	
116 1,2-Dichlorobenzene	146	11.277	11.277	0.000	98	370804	25.0	23.8	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	87	25561	25.0	17.8	
119 1,2,4-Trichlorobenzene	180	12.688	12.688	0.000	94	224130	25.0	25.2	
S 126 Xylenes, Total	1				0			46.0	

Reagents:

8260 CORP mix_00083	Amount Added: 12.50	Units: uL	
GAS CORP mix_00183	Amount Added: 12.50	Units: uL	
N_8260_Surr_00211	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00038	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 17-Oct-2016 14:20:37 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20161016-57327.b\N8962.D

Injection Date: 17-Oct-2016 05:29:30 Instrument ID: HP5973N Operator ID: JG

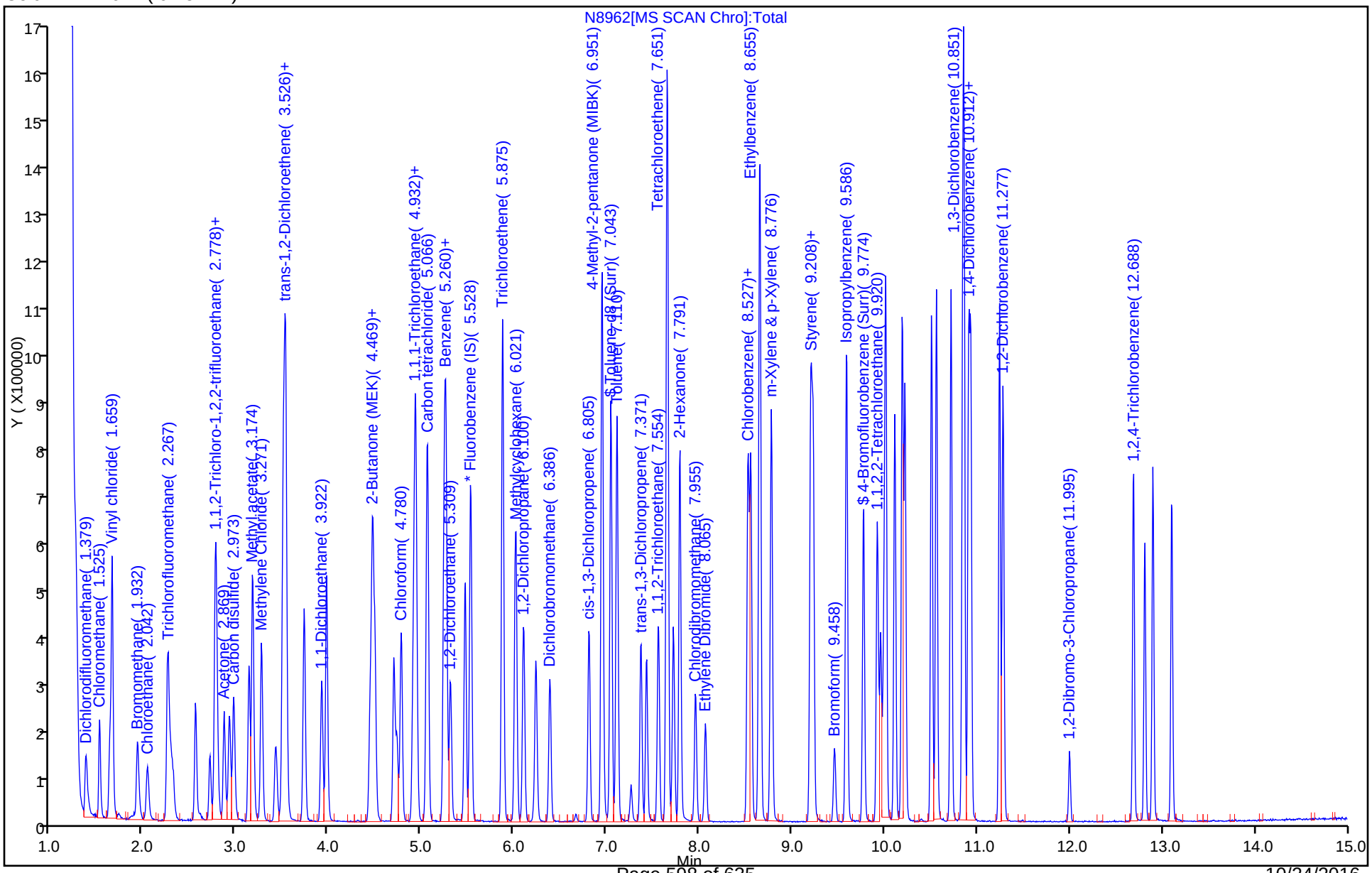
Lims ID: 480-107471-B-12 MSD Worklist Smp#: 44

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 8.0000 ALS Bottle#: 26

Method: N-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Recovery Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161016-57327.b\N8962.D				
Lims ID:	480-107471-B-12 MSD				
Client ID:					
Sample Type:	MSD				
Inject. Date:	17-Oct-2016 05:29:30	ALS Bottle#:	26	Worklist Smp#:	44
Purge Vol:	5.000 mL	Dil. Factor:	8.0000		
Sample Info:	480-107471-b-12 msd				
Misc. Info.:	480-0057327-044				
Operator ID:	JG	Instrument ID:	HP5973N		

Method:	\\ChromNA\Buffalo\ChromData\HP5973N\20161016-57327.b\N-8260.m		
Limit Group:	MV - 8260C ICAL		
Last Update:	17-Oct-2016 14:17:54	Calib Date:	06-Oct-2016 06:56:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973N\20161005-57013.b\N8473.D		

Column 1 :	ZB-624 (0.25 mm)	Det: MS SCAN
Process Host:	XAWRK007	

First Level Reviewer: archern Date: 17-Oct-2016 14:20:36

Compound	Amount Added	Amount Recovered	% Rec.
$ 5 1,2-Dichloroethane-d4 (Surr)	25.0	27.3	109.29
$ 6 Toluene-d8 (Surr)	25.0	25.0	99.99
$ 7 4-Bromofluorobenzene (Surr)	25.0	25.1	100.48

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: MW-2MSD MSD | Lab Sample ID: 480-107471-14 MSD

Matrix: Water | Lab File ID: P1436.D

Analysis Method: 8260C | Date Collected: 10/10/2016 16:50

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2016 07:31

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.: 325765 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	33.9		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	23.4		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	30.5		1.0	0.31
79-00-5	1,1,2-Trichloroethane	26.5		1.0	0.23
75-34-3	1,1-Dichloroethane	32.3		1.0	0.38
75-35-4	1,1-Dichloroethene	30.6		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	23.8		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	21.5		1.0	0.39
106-93-4	1,2-Dibromoethane	27.0		1.0	0.73
95-50-1	1,2-Dichlorobenzene	25.9		1.0	0.79
107-06-2	1,2-Dichloroethane	31.9		1.0	0.21
78-87-5	1,2-Dichloropropane	26.6		1.0	0.72
541-73-1	1,3-Dichlorobenzene	25.5		1.0	0.78
106-46-7	1,4-Dichlorobenzene	25.9		1.0	0.84
78-93-3	2-Butanone (MEK)	115		10	1.3
591-78-6	2-Hexanone	122		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	117		5.0	2.1
67-64-1	Acetone	134		10	3.0
71-43-2	Benzene	27.6		1.0	0.41
75-27-4	Bromodichloromethane	30.7		1.0	0.39
75-25-2	Bromoform	27.6		1.0	0.26
74-83-9	Bromomethane	45.4		1.0	0.69
75-15-0	Carbon disulfide	33.8		1.0	0.19
56-23-5	Carbon tetrachloride	37.6		1.0	0.27
108-90-7	Chlorobenzene	28.3		1.0	0.75
75-00-3	Chloroethane	37.5		1.0	0.32
67-66-3	Chloroform	30.8		1.0	0.34
74-87-3	Chloromethane	24.7		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	36.3		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	25.6		1.0	0.36
110-82-7	Cyclohexane	26.0		1.0	0.18
124-48-1	Dibromochloromethane	30.0		1.0	0.32
75-71-8	Dichlorodifluoromethane	26.2		1.0	0.68
100-41-4	Ethylbenzene	28.1		1.0	0.74
98-82-8	Isopropylbenzene	24.3		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-107471-1

SDG No.:

Client Sample ID: MW-2MSD MSD | Lab Sample ID: 480-107471-14 MSD

Matrix: Water | Lab File ID: P1436.D

Analysis Method: 8260C | Date Collected: 10/10/2016 16:50

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2016 07:31

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.: 325765 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	112		2.5	1.3
1634-04-4	Methyl tert-butyl ether	27.7		1.0	0.16
108-87-2	Methylcyclohexane	23.9		1.0	0.16
75-09-2	Methylene Chloride	29.0		1.0	0.44
100-42-5	Styrene	26.3		1.0	0.73
127-18-4	Tetrachloroethene	29.4		1.0	0.36
108-88-3	Toluene	26.2		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	31.2		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	27.1		1.0	0.37
79-01-6	Trichloroethene	28.1		1.0	0.46
75-69-4	Trichlorofluoromethane	36.3		1.0	0.88
75-01-4	Vinyl chloride	39.8		1.0	0.90
1330-20-7	Xylenes, Total	53.1		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		77-120
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57299.b\P1436.D
Lims ID: 480-107471-B-14 MSD
Client ID: MW-2MSD
Sample Type: MSD
Inject. Date: 15-Oct-2016 07:31:30 ALS Bottle#: 24 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-107471-B-14 MSD
Misc. Info.: 480-0057299-022
Operator ID: SY Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161014-57299.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 15-Oct-2016 13:39:15 Calib Date: 15-Sep-2016 21:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: farrellr Date: 15-Oct-2016 13:40:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.828	9.821	0.007	98	100735	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.764	13.764	0.000	85	206837	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.751	16.751	0.000	95	248681	25.0	25.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.456	9.456	0.000	0	86946	25.0	26.9	
$ 5 Toluene-d8 (Surr)	98	11.799	11.799	0.000	93	450708	25.0	24.5	
$ 6 4-Bromofluorobenzene (Surr	174	15.278	15.272	0.006	94	163155	25.0	25.9	
10 Dichlorodifluoromethane	85	3.987	3.987	0.000	99	219838	25.0	26.2	
11 Chloromethane	50	4.322	4.322	0.000	99	216391	25.0	24.7	
17 Vinyl chloride	62	4.541	4.535	0.006	97	252707	25.0	39.8	
12 Bromomethane	94	5.088	5.094	-0.006	93	124183	25.0	45.4	
13 Chloroethane	64	5.210	5.210	0.000	96	127000	25.0	37.5	
14 Trichlorofluoromethane	101	5.618	5.611	0.007	98	426314	25.0	36.3	
16 1,1,2-Trichloro-1,2,2-trif	101	6.250	6.250	0.000	93	237208	25.0	30.5	
25 1,1-Dichloroethene	96	6.293	6.293	0.000	94	207398	25.0	30.6	
24 Acetone	43	6.329	6.323	0.006	98	553175	125.0	133.7	
27 Carbon disulfide	76	6.670	6.670	0.000	100	772879	25.0	33.8	
30 Methyl acetate	43	6.707	6.700	0.007	100	1220087	125.0	112.5	
31 Methylene Chloride	84	6.914	6.913	0.001	94	205979	25.0	29.0	
32 Methyl tert-butyl ether	73	7.169	7.163	0.006	99	637080	25.0	27.7	
35 trans-1,2-Dichloroethene	96	7.236	7.230	0.006	93	221400	25.0	31.2	
40 1,1-Dichloroethane	63	7.759	7.753	0.006	97	483955	25.0	32.3	
44 2-Butanone (MEK)	43	8.404	8.398	0.006	98	846057	125.0	115.4	
43 cis-1,2-Dichloroethene	96	8.459	8.452	0.007	85	282511	25.0	36.3	
49 Chloroform	83	8.812	8.805	0.007	95	371531	25.0	30.8	
52 1,1,1-Trichloroethane	97	9.073	9.067	0.006	98	368672	25.0	33.9	
54 Cyclohexane	56	9.140	9.134	0.006	96	439720	25.0	26.0	
55 Carbon tetrachloride	117	9.274	9.274	0.000	95	382771	25.0	37.6	
57 Benzene	78	9.523	9.517	0.006	97	756309	25.0	27.6	
60 1,2-Dichloroethane	62	9.548	9.541	0.007	97	362059	25.0	31.9	
62 Trichloroethene	95	10.278	10.271	0.007	94	209015	25.0	28.1	
64 Methylcyclohexane	83	10.509	10.509	0.000	97	290732	25.0	23.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
63 1,2-Dichloropropane	63	10.582	10.582	0.000	92	213120	25.0	26.6	
70 Dichlorobromomethane	83	10.917	10.904	0.012	96	269776	25.0	30.7	
73 cis-1,3-Dichloropropene	75	11.452	11.446	0.006	90	291448	25.0	25.6	
75 4-Methyl-2-pentanone (MIBK	43	11.555	11.555	0.000	99	1711971	125.0	116.8	
76 Toluene	92	11.890	11.884	0.006	97	473619	25.0	26.2	
78 trans-1,3-Dichloropropene	75	12.151	12.145	0.006	94	290597	25.0	27.1	
79 1,1,2-Trichloroethane	83	12.431	12.425	0.006	94	148813	25.0	26.5	
80 Tetrachloroethene	166	12.638	12.632	0.006	92	229606	25.0	29.4	
83 2-Hexanone	43	12.644	12.638	0.006	99	1226357	125.0	121.7	
81 Chlorodibromomethane	129	13.015	13.015	0.000	90	229856	25.0	30.0	
85 Ethylene Dibromide	107	13.210	13.210	0.000	99	209260	25.0	27.0	
87 Chlorobenzene	112	13.806	13.800	0.006	94	569540	25.0	28.3	
89 Ethylbenzene	91	13.867	13.867	0.000	98	921932	25.0	28.1	
90 m-Xylene & p-Xylene	106	14.013	14.007	0.006	0	369905		26.4	
93 o-Xylene	106	14.561	14.560	0.001	98	370244		26.7	
94 Styrene	104	14.579	14.579	0.000	95	577545	25.0	26.3	
92 Bromoform	173	14.932	14.931	0.001	95	141981	25.0	27.6	
95 Isopropylbenzene	105	15.005	14.998	0.007	96	973081	25.0	24.3	
97 1,1,2,2-Tetrachloroethane	83	15.424	15.424	0.000	96	282646	25.0	23.4	
110 1,3-Dichlorobenzene	146	16.678	16.677	0.001	98	519096	25.0	25.5	
111 1,4-Dichlorobenzene	146	16.781	16.781	0.000	93	527350	25.0	25.9	
116 1,2-Dichlorobenzene	146	17.268	17.267	0.001	97	528082	25.0	25.9	
117 1,2-Dibromo-3-Chloropropan	75	18.241	18.241	0.000	82	69519	25.0	21.5	
119 1,2,4-Trichlorobenzene	180	19.318	19.318	0.000	95	362863	25.0	23.8	
S 126 Xylenes, Total	1				0			53.1	

Reagents:

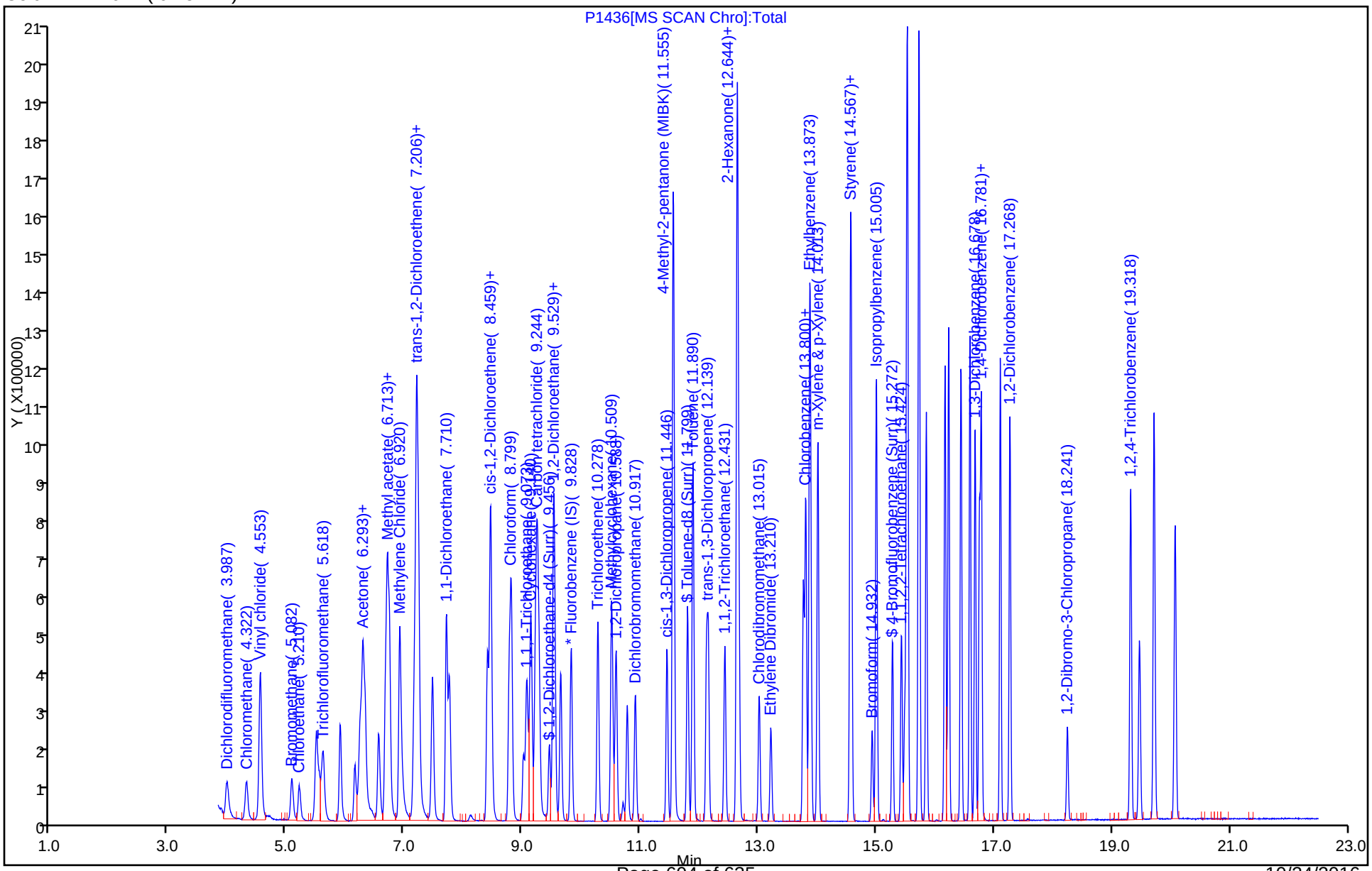
8260 CORP mix_00083	Amount Added: 12.50	Units: uL	
GAS CORP mix_00183	Amount Added: 12.50	Units: uL	
P 8260 IS_00173	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00197	Amount Added: 1.25	Units: uL	Run Reagent

Report Date: 15-Oct-2016 13:40:02 Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57299.b\P1436.D				
Injection Date:	15-Oct-2016 07:31:30	Instrument ID:	HP5973P	Operator ID:	SY
Lims ID:	480-107471-B-14 MSD			Worklist Smp#:	22
Client ID:	MW-2MSD				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Recovery Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57299.b\P1436.D				
Lims ID:	480-107471-B-14 MSD				
Client ID:	MW-2MSD				
Sample Type:	MSD				
Inject. Date:	15-Oct-2016 07:31:30	ALS Bottle#:	24	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	480-107471-B-14 MSD				
Misc. Info.:	480-0057299-022				
Operator ID:	SY	Instrument ID:	HP5973P		

Method:	\\ChromNA\Buffalo\ChromData\HP5973P\20161014-57299.b\P-8260H2O.m		
Limit Group:	MV - 8260C ICAL		
Last Update:	15-Oct-2016 13:39:15	Calib Date:	15-Sep-2016 21:21:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160915-56398.b\P0173.D		

Column 1 :	ZB-624 (0.25 mm)	Det: MS SCAN
Process Host:	XAWRK030	

First Level Reviewer: farrellr Date: 15-Oct-2016 13:40:02

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	26.9	107.71
$ 5 Toluene-d8 (Surr)	25.0	24.5	98.15
$ 6 4-Bromofluorobenzene (Surr)	25.0	25.9	103.72

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Instrument ID: HP5973P Start Date: 09/15/2016 14:06

Analysis Batch Number: 320502 End Date: 09/15/2016 23:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-320502/3		09/15/2016 14:06	1	P0157.D	ZB-624 (60) 0.25(mm)
IC 480-320502/5		09/15/2016 15:01	1	P0159.D	ZB-624 (60) 0.25(mm)
IC 480-320502/6		09/15/2016 15:28	1	P0160.D	ZB-624 (60) 0.25(mm)
IC 480-320502/7		09/15/2016 15:55	1	P0161.D	ZB-624 (60) 0.25(mm)
IC 480-320502/8		09/15/2016 16:23	1	P0162.D	ZB-624 (60) 0.25(mm)
ICIS 480-320502/9		09/15/2016 16:50	1	P0163.D	ZB-624 (60) 0.25(mm)
IC 480-320502/10		09/15/2016 17:17	1	P0164.D	ZB-624 (60) 0.25(mm)
IC 480-320502/11		09/15/2016 17:44	1	P0165.D	ZB-624 (60) 0.25(mm)
IC 480-320502/13		09/15/2016 18:38	1		ZB-624 (60) 0.25(mm)
IC 480-320502/14		09/15/2016 19:05	1		ZB-624 (60) 0.25(mm)
IC 480-320502/15		09/15/2016 19:32	1		ZB-624 (60) 0.25(mm)
IC 480-320502/16		09/15/2016 20:00	1		ZB-624 (60) 0.25(mm)
IC 480-320502/17		09/15/2016 20:27	1		ZB-624 (60) 0.25(mm)
IC 480-320502/18		09/15/2016 20:54	1		ZB-624 (60) 0.25(mm)
IC 480-320502/19		09/15/2016 21:21	1		ZB-624 (60) 0.25(mm)
MDLV 480-320502/21		09/15/2016 22:15	1		ZB-624 (60) 0.25(mm)
MDLV 480-320502/22		09/15/2016 22:42	1		ZB-624 (60) 0.25(mm)
ICV 480-320502/23		09/15/2016 23:09	1		ZB-624 (60) 0.25(mm)
ICV 480-320502/24		09/15/2016 23:36	1		ZB-624 (60) 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Instrument ID: HP5973N Start Date: 10/05/2016 21:59

Analysis Batch Number: 324022 End Date: 10/06/2016 08:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-324022/2		10/05/2016 21:59	1	N8453.D	ZB-624 (20) 0.18(mm)
IC 480-324022/4		10/05/2016 22:54	1	N8455.D	ZB-624 (20) 0.18(mm)
IC 480-324022/5		10/05/2016 23:21	1	N8456.D	ZB-624 (20) 0.18(mm)
IC 480-324022/6		10/05/2016 23:48	1	N8457.D	ZB-624 (20) 0.18(mm)
IC 480-324022/7		10/06/2016 00:14	1	N8458.D	ZB-624 (20) 0.18(mm)
IC 480-324022/8		10/06/2016 00:41	1	N8459.D	ZB-624 (20) 0.18(mm)
ICIS 480-324022/9		10/06/2016 01:08	1	N8460.D	ZB-624 (20) 0.18(mm)
IC 480-324022/10		10/06/2016 01:35	1	N8461.D	ZB-624 (20) 0.18(mm)
IC 480-324022/11		10/06/2016 02:01	1	N8462.D	ZB-624 (20) 0.18(mm)
MDLV 480-324022/14		10/06/2016 03:22	1		ZB-624 (20) 0.18(mm)
IC 480-324022/16		10/06/2016 04:15	1		ZB-624 (20) 0.18(mm)
IC 480-324022/17		10/06/2016 04:42	1		ZB-624 (20) 0.18(mm)
IC 480-324022/18		10/06/2016 05:08	1		ZB-624 (20) 0.18(mm)
IC 480-324022/19		10/06/2016 05:35	1		ZB-624 (20) 0.18(mm)
IC 480-324022/20		10/06/2016 06:02	1		ZB-624 (20) 0.18(mm)
IC 480-324022/21		10/06/2016 06:29	1		ZB-624 (20) 0.18(mm)
IC 480-324022/22		10/06/2016 06:56	1		ZB-624 (20) 0.18(mm)
MDLV 480-324022/24		10/06/2016 07:49	1		ZB-624 (20) 0.18(mm)
ICV 480-324022/25		10/06/2016 08:16	1		ZB-624 (20) 0.18(mm)
ICV 480-324022/26		10/06/2016 08:42	1		ZB-624 (20) 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Instrument ID: HP5973P Start Date: 10/14/2016 08:49

Analysis Batch Number: 325584 End Date: 10/14/2016 20:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-325584/1		10/14/2016 08:49	1	P1389.D	ZB-624 (60) 0.25(mm)
CCVIS 480-325584/2		10/14/2016 09:16	1	P1390.D	ZB-624 (60) 0.25(mm)
CCV 480-325584/3		10/14/2016 09:43	1		ZB-624 (60) 0.25(mm)
LCS 480-325584/4		10/14/2016 10:10	1	P1392.D	ZB-624 (60) 0.25(mm)
RL 480-325584/5		10/14/2016 11:00	1		ZB-624 (60) 0.25(mm)
MB 480-325584/6		10/14/2016 11:27	1	P1394.D	ZB-624 (60) 0.25(mm)
ZZZZZ		10/14/2016 12:16	1		ZB-624 (60) 0.25(mm)
ZZZZZ		10/14/2016 12:43	1		ZB-624 (60) 0.25(mm)
ZZZZZ		10/14/2016 13:10	4		ZB-624 (60) 0.25(mm)
ZZZZZ		10/14/2016 13:37	50		ZB-624 (60) 0.25(mm)
ZZZZZ		10/14/2016 14:04	1		ZB-624 (60) 0.25(mm)
480-107471-1		10/14/2016 14:32	1	P1400.D	ZB-624 (60) 0.25(mm)
480-107471-2		10/14/2016 14:59	1	P1401.D	ZB-624 (60) 0.25(mm)
480-107471-3		10/14/2016 15:26	1	P1402.D	ZB-624 (60) 0.25(mm)
ZZZZZ		10/14/2016 15:53	5		ZB-624 (60) 0.25(mm)
480-107471-8		10/14/2016 16:21	1	P1404.D	ZB-624 (60) 0.25(mm)
480-107471-14		10/14/2016 16:48	1	P1405.D	ZB-624 (60) 0.25(mm)
480-107471-15		10/14/2016 17:15	1	P1406.D	ZB-624 (60) 0.25(mm)
480-107471-17		10/14/2016 17:42	1	P1407.D	ZB-624 (60) 0.25(mm)
ZZZZZ		10/14/2016 18:10	1		ZB-624 (60) 0.25(mm)
ZZZZZ		10/14/2016 18:37	1		ZB-624 (60) 0.25(mm)
ZZZZZ		10/14/2016 19:04	1		ZB-624 (60) 0.25(mm)
ZZZZZ		10/14/2016 19:45	1		ZB-624 (60) 0.25(mm)
ZZZZZ		10/14/2016 20:12	1		ZB-624 (60) 0.25(mm)

8260C

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Instrument ID: HP5973P Start Date: 10/14/2016 20:39

Analysis Batch Number: 325765 End Date: 10/15/2016 07:31

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-325765/1		10/14/2016 20:39	1	P1413.D	ZB-624 (60) 0.25(mm)
CCVIS 480-325765/2		10/14/2016 21:15	1	P1414.D	ZB-624 (60) 0.25(mm)
CCV 480-325765/3		10/14/2016 21:42	1		ZB-624 (60) 0.25(mm)
LCS 480-325765/4		10/14/2016 22:10	1	P1416.D	ZB-624 (60) 0.25(mm)
MB 480-325765/6		10/14/2016 23:05	1	P1418.D	ZB-624 (60) 0.25(mm)
ZZZZZ		10/14/2016 23:45	1		ZB-624 (60) 0.25(mm)
ZZZZZ		10/15/2016 00:13	1		ZB-624 (60) 0.25(mm)
ZZZZZ		10/15/2016 00:40	1		ZB-624 (60) 0.25(mm)
ZZZZZ		10/15/2016 01:08	1		ZB-624 (60) 0.25(mm)
ZZZZZ		10/15/2016 01:35	1		ZB-624 (60) 0.25(mm)
ZZZZZ		10/15/2016 02:02	1		ZB-624 (60) 0.25(mm)
ZZZZZ		10/15/2016 02:30	1		ZB-624 (60) 0.25(mm)
ZZZZZ		10/15/2016 02:57	1		ZB-624 (60) 0.25(mm)
ZZZZZ		10/15/2016 03:25	1		ZB-624 (60) 0.25(mm)
480-107471-7		10/15/2016 03:52	1	P1428.D	ZB-624 (60) 0.25(mm)
ZZZZZ		10/15/2016 04:20	1		ZB-624 (60) 0.25(mm)
ZZZZZ		10/15/2016 04:47	1		ZB-624 (60) 0.25(mm)
ZZZZZ		10/15/2016 05:14	1		ZB-624 (60) 0.25(mm)
ZZZZZ		10/15/2016 05:42	1		ZB-624 (60) 0.25(mm)
ZZZZZ		10/15/2016 06:09	1		ZB-624 (60) 0.25(mm)
ZZZZZ		10/15/2016 06:36	10		ZB-624 (60) 0.25(mm)
480-107471-14 MS		10/15/2016 07:04	1	P1435.D	ZB-624 (60) 0.25(mm)
480-107471-14 MSD		10/15/2016 07:31	1	P1436.D	ZB-624 (60) 0.25(mm)

8260C

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Instrument ID: HP5973N Start Date: 10/15/2016 17:03

Analysis Batch Number: 325847 End Date: 10/16/2016 03:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-325847/1		10/15/2016 17:03	1	N8911.D	ZB-624 (20) 0.18(mm)
CCVIS 480-325847/2		10/15/2016 17:32	1	N8912.D	ZB-624 (20) 0.18(mm)
CCV 480-325847/3		10/15/2016 17:59	1		ZB-624 (20) 0.18(mm)
LCS 480-325847/4		10/15/2016 18:29	1	N8914.D	ZB-624 (20) 0.18(mm)
RL 480-325847/5		10/15/2016 18:56	1		ZB-624 (20) 0.18(mm)
MB 480-325847/6		10/15/2016 19:23	1	N8916.D	ZB-624 (20) 0.18(mm)
ZZZZZ		10/15/2016 20:01	1		ZB-624 (20) 0.18(mm)
480-107471-4		10/15/2016 20:28	20	N8918.D	ZB-624 (20) 0.18(mm)
480-107471-5		10/15/2016 20:55	5	N8919.D	ZB-624 (20) 0.18(mm)
480-107471-6		10/15/2016 21:22	1	N8920.D	ZB-624 (20) 0.18(mm)
480-107471-9		10/15/2016 21:49	1	N8921.D	ZB-624 (20) 0.18(mm)
480-107471-10		10/15/2016 22:15	1	N8922.D	ZB-624 (20) 0.18(mm)
480-107471-11		10/15/2016 22:42	1	N8923.D	ZB-624 (20) 0.18(mm)
ZZZZZ		10/15/2016 23:09	20		ZB-624 (20) 0.18(mm)
480-107471-13		10/15/2016 23:36	1	N8925.D	ZB-624 (20) 0.18(mm)
480-107471-16		10/16/2016 00:03	1	N8926.D	ZB-624 (20) 0.18(mm)
ZZZZZ		10/16/2016 00:29	1		ZB-624 (20) 0.18(mm)
ZZZZZ		10/16/2016 00:56	10		ZB-624 (20) 0.18(mm)
ZZZZZ		10/16/2016 01:23	1		ZB-624 (20) 0.18(mm)
ZZZZZ		10/16/2016 01:50	1		ZB-624 (20) 0.18(mm)
ZZZZZ		10/16/2016 02:17	1		ZB-624 (20) 0.18(mm)
ZZZZZ		10/16/2016 02:43	1		ZB-624 (20) 0.18(mm)
ZZZZZ		10/16/2016 03:10	1		ZB-624 (20) 0.18(mm)
ZZZZZ		10/16/2016 03:36	1		ZB-624 (20) 0.18(mm)

8260C

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Instrument ID: HP5973N Start Date: 10/16/2016 18:20

Analysis Batch Number: 325887 End Date: 10/17/2016 05:29

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-325887/1		10/16/2016 18:20	1	N8938.D	ZB-624 (20) 0.18(mm)
CCV 480-325887/3		10/16/2016 19:12	1		ZB-624 (20) 0.18(mm)
CCVIS 480-325887/4		10/16/2016 19:49	1	N8941.D	ZB-624 (20) 0.18(mm)
LCS 480-325887/26		10/16/2016 20:15	1	N8942.D	ZB-624 (20) 0.18(mm)
RL 480-325887/5		10/16/2016 20:42	1		ZB-624 (20) 0.18(mm)
MB 480-325887/6		10/16/2016 21:09	1	N8944.D	ZB-624 (20) 0.18(mm)
ZZZZZ		10/16/2016 21:54	80		ZB-624 (20) 0.18(mm)
480-107471-12		10/16/2016 22:21	8	N8946.D	ZB-624 (20) 0.18(mm)
ZZZZZ		10/16/2016 22:48	1		ZB-624 (20) 0.18(mm)
ZZZZZ		10/16/2016 23:15	1		ZB-624 (20) 0.18(mm)
ZZZZZ		10/16/2016 23:41	1		ZB-624 (20) 0.18(mm)
ZZZZZ		10/17/2016 00:08	1		ZB-624 (20) 0.18(mm)
ZZZZZ		10/17/2016 00:35	1		ZB-624 (20) 0.18(mm)
ZZZZZ		10/17/2016 01:01	1		ZB-624 (20) 0.18(mm)
ZZZZZ		10/17/2016 01:28	1		ZB-624 (20) 0.18(mm)
ZZZZZ		10/17/2016 01:55	1		ZB-624 (20) 0.18(mm)
ZZZZZ		10/17/2016 02:22	1		ZB-624 (20) 0.18(mm)
ZZZZZ		10/17/2016 02:48	1		ZB-624 (20) 0.18(mm)
ZZZZZ		10/17/2016 03:15	1		ZB-624 (20) 0.18(mm)
ZZZZZ		10/17/2016 03:41	1		ZB-624 (20) 0.18(mm)
ZZZZZ		10/17/2016 04:08	1		ZB-624 (20) 0.18(mm)
ZZZZZ		10/17/2016 04:35	4		ZB-624 (20) 0.18(mm)
480-107471-12 MS		10/17/2016 05:02	8	N8961.D	ZB-624 (20) 0.18(mm)
480-107471-12 MSD		10/17/2016 05:29	8	N8962.D	ZB-624 (20) 0.18(mm)

8260C

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-107471-1

SDG No.:

Instrument ID: HP5973N Start Date: 10/17/2016 08:10

Analysis Batch Number: 325955 End Date: 10/17/2016 19:32

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-325955/2		10/17/2016 08:10	1	N8967.D	ZB-624 (20) 0.18(mm)
CCVIS 480-325955/3		10/17/2016 08:33	1	N8968.D	ZB-624 (20) 0.18(mm)
CCV 480-325955/4		10/17/2016 09:00	1		ZB-624 (20) 0.18(mm)
LCS 480-325955/5		10/17/2016 09:27	1	N8970.D	ZB-624 (20) 0.18(mm)
RL 480-325955/6		10/17/2016 09:54	1		ZB-624 (20) 0.18(mm)
MB 480-325955/7		10/17/2016 10:21	1	N8972.D	ZB-624 (20) 0.18(mm)
480-107471-11 DL		10/17/2016 11:03	200	N8973.D	ZB-624 (20) 0.18(mm)
ZZZZZ		10/17/2016 11:30	1		ZB-624 (20) 0.18(mm)
ZZZZZ		10/17/2016 11:57	1		ZB-624 (20) 0.18(mm)
ZZZZZ		10/17/2016 12:24	2		ZB-624 (20) 0.18(mm)
ZZZZZ		10/17/2016 12:50	100		ZB-624 (20) 0.18(mm)
ZZZZZ		10/17/2016 13:16	200		ZB-624 (20) 0.18(mm)
ZZZZZ		10/17/2016 13:43	500		ZB-624 (20) 0.18(mm)
ZZZZZ		10/17/2016 14:10	200		ZB-624 (20) 0.18(mm)
ZZZZZ		10/17/2016 14:37	40		ZB-624 (20) 0.18(mm)
ZZZZZ		10/17/2016 15:04	400		ZB-624 (20) 0.18(mm)
ZZZZZ		10/17/2016 15:31	5		ZB-624 (20) 0.18(mm)
ZZZZZ		10/17/2016 15:58	5		ZB-624 (20) 0.18(mm)
ZZZZZ		10/17/2016 16:24	100		ZB-624 (20) 0.18(mm)
ZZZZZ		10/17/2016 16:51	2		ZB-624 (20) 0.18(mm)
ZZZZZ		10/17/2016 17:18	50		ZB-624 (20) 0.18(mm)
ZZZZZ		10/17/2016 17:45	1		ZB-624 (20) 0.18(mm)
ZZZZZ		10/17/2016 18:12	20		ZB-624 (20) 0.18(mm)
ZZZZZ		10/17/2016 18:38	1		ZB-624 (20) 0.18(mm)
480-107471-11 MS		10/17/2016 19:05	200	N8991.D	ZB-624 (20) 0.18(mm)
480-107471-11 MSD		10/17/2016 19:32	200	N8992.D	ZB-624 (20) 0.18(mm)

8260C

GC/MS VOA Worksheet

Batch Number: 480-325584
Method: 8260C
Analyst: Youngman, Shawna M

Date Open: Oct 14 2016 8:49AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	8260 CORP mix_00083	ADD CORP mix_00051
BFB~480-325584/1		8260C			1 uL	1 uL	HP5973P		
CCVIS~480-325584/2		8260C			5 mL	5 mL	HP5973P	12.5 uL	
CCV~480-325584/3		8260C			5 mL	5 mL	HP5973P		12.5 uL
LCS~480-325584/4		8260C			5 mL	5 mL	HP5973P	12.5 uL	
RL~480-325584/5					5 mL	5 mL	HP5973P	1 uL	1 uL
MB~480-325584/6		8260C			5 mL	5 mL	HP5973P		
480-107386-A-4	MW-14	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-107386-B-5	MW-15	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-107387-A-4	MW-3	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-107387-A-5	CHA-1	8260C	T	7 SU	5 mL	5 mL	HP5973P		
480-107387-A-6	TRIP BLANK	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-107471-A-1	TRIP BLANK	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-107471-A-2	MW-3	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-107471-A-3	MW-1	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-107471-A-7	PZ-5	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-107471-A-8	PZ-6	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-107471-A-14	MW-2	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-107471-A-14~MS	MW-2MS	8260C	T	<2 SU	5 mL	5 mL	HP5973P	12.5 uL	
480-107471-A-14~MSD	MW-2MSD	8260C	T	<2 SU	5 mL	5 mL	HP5973P	12.5 uL	
480-107471-A-15	MW-4	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-107471-A-17	MW-1-S/D	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-107489-L-1	OW-15D	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-107489-L-2	OW-15S	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-107489-A-3	TRIP BLANK	8260C	T	<2 SU	5 mL	5 mL	HP5973P		

GC/MS VOA Worksheet

Batch Number: 480-325584
Method: 8260C
Analyst: Youngman, Shawna M

Date Open: Oct 14 2016 8:49AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	BFB_WRK_00056	GAS CORP mix_00183	P 8260 IS_00173	P 8260 Surr._00197
BFB~480-325584/1		8260C		1 uL			
CCVIS~480-325584/2		8260C			12.5 uL	1.25 uL	1.25 uL
CCV~480-325584/3		8260C				1.25 uL	1.25 uL
LCS~480-325584/4		8260C			12.5 uL	1.25 uL	1.25 uL
RL~480-325584/5					1 uL	1.25 uL	1.25 uL
MB~480-325584/6		8260C				1.25 uL	1.25 uL
480-107386-A-4	MW-14	8260C	T			1.25 uL	1.25 uL
480-107386-B-5	MW-15	8260C	T			1.25 uL	1.25 uL
480-107387-A-4	MW-3	8260C	T			1.25 uL	1.25 uL
480-107387-A-5	CHA-1	8260C	T			1.25 uL	1.25 uL
480-107387-A-6	TRIP BLANK	8260C	T			1.25 uL	1.25 uL
480-107471-A-1	TRIP BLANK	8260C	T			1.25 uL	1.25 uL
480-107471-A-2	MW-3	8260C	T			1.25 uL	1.25 uL
480-107471-A-3	MW-1	8260C	T			1.25 uL	1.25 uL
480-107471-A-7	PZ-5	8260C	T			1.25 uL	1.25 uL
480-107471-A-8	PZ-6	8260C	T			1.25 uL	1.25 uL
480-107471-A-14	MW-2	8260C	T			1.25 uL	1.25 uL
480-107471-A-14~MS	MW-2MS	8260C	T		12.5 uL	1.25 uL	1.25 uL
480-107471-A-14~MSD	MW-2MSD	8260C	T		12.5 uL	1.25 uL	1.25 uL
480-107471-A-15	MW-4	8260C	T			1.25 uL	1.25 uL
480-107471-A-17	MW-1-S/D	8260C	T			1.25 uL	1.25 uL
480-107489-L-1	OW-15D	8260C	T			1.25 uL	1.25 uL
480-107489-L-2	OW-15S	8260C	T			1.25 uL	1.25 uL
480-107489-A-3	TRIP BLANK	8260C	T			1.25 uL	1.25 uL

GC/MS VOA Worksheet

Batch Number: 480-325584
Method: 8260C
Analyst: Youngman, Shawna M

Date Open: Oct 14 2016 8:49AM
Batch End:

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
BFB~480-325584/1		8260C		
CCVIS~480-325584/2		8260C		
CCV~480-325584/3		8260C		
LCS~480-325584/4		8260C		
RL~480-325584/5				
MB~480-325584/6		8260C		
480-107386-A-4	MW-14	8260C	T	
480-107386-B-5	MW-15	8260C	T	
480-107387-A-4	MW-3	8260C	T	Already ran on C.
480-107387-A-5	CHA-1	8260C	T	Confirmation confirmed.
480-107387-A-6	TRIP BLANK	8260C	T	Already ran on C.
480-107471-A-1	TRIP BLANK	8260C	T	
480-107471-A-2	MW-3	8260C	T	
480-107471-A-3	MW-1	8260C	T	
480-107471-A-7	PZ-5	8260C	T	A lower dilution is needed.
480-107471-A-8	PZ-6	8260C	T	
480-107471-A-14	MW-2	8260C	T	
480-107471-A-14~MS	MW-2MS	8260C	T	MS bad spike.
480-107471-A-14~MSD	MW-2MSD	8260C	T	MS bad spike.
480-107471-A-15	MW-4	8260C	T	
480-107471-A-17	MW-1-S/D	8260C	T	Confirmation needed for multiple compounds.
480-107489-L-1	OW-15D	8260C	T	
480-107489-L-2	OW-15S	8260C	T	
480-107489-A-3	TRIP BLANK	8260C	T	Archon error, double sampled.

GC/MS VOA Worksheet

Batch Number: 480-325765
Method: 8260C
Analyst: Farrell, Ryan J

Date Open: Oct 14 2016 8:39PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	8260 CORP mix_00083	ADD CORP mix_00051
BFB~480-325765/1		8260C			1 uL	1 uL	HP5973P		
CCVIS~480-325765/2		8260C			5 mL	5 mL	HP5973P	12.5 uL	
CCV~480-325765/3		8260C			5 mL	5 mL	HP5973P		12.5 uL
LCS~480-325765/4		8260C			5 mL	5 mL	HP5973P	12.5 uL	
MB~480-325765/6		8260C			5 mL	5 mL	HP5973P		
480-107408-M-4	KR-2	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-107408-M-5	RF-1	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-107408-M-6	S-1	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-107408-M-7	S-2	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-107417-G-6	G220	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-107417-G-7	R04D	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-107417-G-8	R06D	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-107417-G-9	R08D	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-107417-A-10	TB2	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-107471-B-7	PZ-5	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-107489-B-3	TRIP BLANK	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-107498-I-1	MP-C	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-107498-I-2	GWU	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-107498-I-3	MP-D	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-107471-B-14~MS	MW-2MS	8260C	T	<2 SU	5 mL	5 mL	HP5973P	12.5 uL	
480-107471-B-14~MSD	MW-2MSD	8260C	T	<2 SU	5 mL	5 mL	HP5973P	12.5 uL	
480-107498-I-4	MP-B	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-107482-A-3	W1002S	8260C	T	<2 SU	5 mL	5 mL	HP5973P		

GC/MS VOA Worksheet

Batch Number: 480-325765
Method: 8260C
Analyst: Farrell, Ryan J

Date Open: Oct 14 2016 8:39PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	BFB_WRK_00056	GAS CORP mix_00183	P 8260 IS_00173	P 8260 Surr._00197
BFB~480-325765/1		8260C		1 uL			
CCVIS~480-325765/2		8260C			12.5 uL	1.25 uL	1.25 uL
CCV~480-325765/3		8260C				1.25 uL	1.25 uL
LCS~480-325765/4		8260C			12.5 uL	1.25 uL	1.25 uL
MB~480-325765/6		8260C				1.25 uL	1.25 uL
480-107408-M-4	KR-2	8260C	T			1.25 uL	1.25 uL
480-107408-M-5	RF-1	8260C	T			1.25 uL	1.25 uL
480-107408-M-6	S-1	8260C	T			1.25 uL	1.25 uL
480-107408-M-7	S-2	8260C	T			1.25 uL	1.25 uL
480-107417-G-6	G220	8260C	T			1.25 uL	1.25 uL
480-107417-G-7	R04D	8260C	T			1.25 uL	1.25 uL
480-107417-G-8	R06D	8260C	T			1.25 uL	1.25 uL
480-107417-G-9	R08D	8260C	T			1.25 uL	1.25 uL
480-107417-A-10	TB2	8260C	T			1.25 uL	1.25 uL
480-107471-B-7	PZ-5	8260C	T			1.25 uL	1.25 uL
480-107489-B-3	TRIP BLANK	8260C	T			1.25 uL	1.25 uL
480-107498-I-1	MP-C	8260C	T			1.25 uL	1.25 uL
480-107498-I-2	GWU	8260C	T			1.25 uL	1.25 uL
480-107498-I-3	MP-D	8260C	T			1.25 uL	1.25 uL
480-107471-B-14~MS	MW-2MS	8260C	T		12.5 uL	1.25 uL	1.25 uL
480-107471-B-14~MSD	MW-2MSD	8260C	T		12.5 uL	1.25 uL	1.25 uL
480-107498-I-4	MP-B	8260C	T			1.25 uL	1.25 uL
480-107482-A-3	W1002S	8260C	T			1.25 uL	1.25 uL

GC/MS VOA Worksheet

Batch Number: 480-325765
Method: 8260C
Analyst: Farrell, Ryan J

Date Open: Oct 14 2016 8:39PM
Batch End:

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
BFB~480-325765/1		8260C		
CCVIS~480-325765/2		8260C		
CCV~480-325765/3		8260C		
LCS~480-325765/4		8260C		
MB~480-325765/6		8260C		
480-107408-M-4	KR-2	8260C	T	
480-107408-M-5	RF-1	8260C	T	
480-107408-M-6	S-1	8260C	T	
480-107408-M-7	S-2	8260C	T	
480-107417-G-6	G220	8260C	T	
480-107417-G-7	R04D	8260C	T	
480-107417-G-8	R06D	8260C	T	
480-107417-G-9	R08D	8260C	T	
480-107417-A-10	TB2	8260C	T	
480-107471-B-7	PZ-5	8260C	T	
480-107489-B-3	TRIP BLANK	8260C	T	
480-107498-I-1	MP-C	8260C	T	
480-107498-I-2	GWU	8260C	T	
480-107498-I-3	MP-D	8260C	T	
480-107471-B-14~MS	MW-2MS	8260C	T	Possible Matrix interference, rerunning
480-107471-B-14~MSD	MW-2MSD	8260C	T	Possible Matrix interference, rerunning
480-107498-I-4	MP-B	8260C	T	
480-107482-A-3	W1002S	8260C	T	Rerunning at a lower dilution

GC/MS VOA Worksheet

Batch Number: 480-325847
Method: 8260C
Analyst: Gentile, Joseph W

Date Open: Oct 15 2016 5:03PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	2MTP_WRK_00056	3MTP_WRK_00058
BFB~480-325847/1		8260C			1 uL	1 uL	HP5973N		
CCVIS~480-325847/2		8260C			5 mL	5 mL	HP5973N		
CCV~480-325847/3		8260C			5 mL	5 mL	HP5973N	12.5 uL	12.5 uL
LCS~480-325847/4		8260C			5 mL	5 mL	HP5973N		
RL~480-325847/5					5 mL	5 mL	HP5973N		
MB~480-325847/6		8260C			5 mL	5 mL	HP5973N		
480-107409-K-1	LLI	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107471-A-4	MW-18	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107471-A-5	MW-20	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107471-A-6	MW-21	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107471-A-9	PZ-11R	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107471-A-10	PZ-13R	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107471-A-11	A2-PZ-1	8260C	T	5 SU	5 mL	5 mL	HP5973N		
480-107471-A-12	A2-PZ-2	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107471-A-13	A1-PZ-2	8260C	T	7 SU	5 mL	5 mL	HP5973N		
480-107471-A-16	MW-10	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107655-E-1	INFLUENT	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107695-K-4	Sump 4	8260C	T	7 SU	5 mL	5 mL	HP5973N		
480-107718-E-1	OUTFALL Z3	8260C	T	7 SU	5 mL	5 mL	HP5973N		
480-107777-G-12	Equipment Blank #1	8260C	T	7 SU	5 mL	5 mL	HP5973N		
480-107777-G-14	MW-15	8260C	T	7 SU	5 mL	5 mL	HP5973N		
480-107777-G-18	MW-3R	8260C	T	7 SU	5 mL	5 mL	HP5973N		
480-107644-C-6~MS	MW-2R	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107644-C-6~MSD	MW-2R	8260C	T	<2 SU	5 mL	5 mL	HP5973N		

GC/MS VOA Worksheet

Batch Number: 480-325847
Method: 8260C
Analyst: Gentile, Joseph W

Date Open: Oct 15 2016 5:03PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	8260 CORP mix_00083	ADD CORP mix_00051	BFB_WRK_00056	GAS CORP mix_00183	N 8260 IS_00038	N_8260_Surr_00210
BFB~480-325847/1		8260C				1 uL			
CCVIS~480-325847/2		8260C		12.5 uL			12.5 uL	1 uL	1 uL
CCV~480-325847/3		8260C			12.5 uL			1 uL	1 uL
LCS~480-325847/4		8260C		12.5 uL			12.5 uL	1 uL	1 uL
RL~480-325847/5				1 uL			1 uL	1 uL	
MB~480-325847/6		8260C						1 uL	
480-107409-K-1	LLI	8260C	T					1 uL	
480-107471-A-4	MW-18	8260C	T					1 uL	
480-107471-A-5	MW-20	8260C	T					1 uL	
480-107471-A-6	MW-21	8260C	T					1 uL	
480-107471-A-9	PZ-11R	8260C	T					1 uL	
480-107471-A-10	PZ-13R	8260C	T					1 uL	
480-107471-A-11	A2-PZ-1	8260C	T					1 uL	
480-107471-A-12	A2-PZ-2	8260C	T					1 uL	
480-107471-A-13	A1-PZ-2	8260C	T					1 uL	
480-107471-A-16	MW-10	8260C	T					1 uL	
480-107655-E-1	INFLUENT	8260C	T					1 uL	
480-107695-K-4	Sump 4	8260C	T					1 uL	
480-107718-E-1	OUTFALL Z3	8260C	T					1 uL	
480-107777-G-12	Equipment Blank #1	8260C	T					1 uL	
480-107777-G-14	MW-15	8260C	T					1 uL	
480-107777-G-18	MW-3R	8260C	T					1 uL	
480-107644-C-6~MS	MW-2R	8260C	T	12.5 uL			12.5 uL	1 uL	
480-107644-C-6~MSD	MW-2R	8260C	T	12.5 uL			12.5 uL	1 uL	

GC/MS VOA Worksheet

Batch Number: 480-325847
Method: 8260C
Analyst: Gentile, Joseph W

Date Open: Oct 15 2016 5:03PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	N_8260_Surr_00211
BFB~480-325847/1		8260C		
CCVIS~480-325847/2		8260C		
CCV~480-325847/3		8260C		
LCS~480-325847/4		8260C		
RL~480-325847/5				1 uL
MB~480-325847/6		8260C		1 uL
480-107409-K-1	LLI	8260C	T	1 uL
480-107471-A-4	MW-18	8260C	T	1 uL
480-107471-A-5	MW-20	8260C	T	1 uL
480-107471-A-6	MW-21	8260C	T	1 uL
480-107471-A-9	PZ-11R	8260C	T	1 uL
480-107471-A-10	PZ-13R	8260C	T	1 uL
480-107471-A-11	A2-PZ-1	8260C	T	1 uL
480-107471-A-12	A2-PZ-2	8260C	T	1 uL
480-107471-A-13	A1-PZ-2	8260C	T	1 uL
480-107471-A-16	MW-10	8260C	T	1 uL
480-107655-E-1	INFLUENT	8260C	T	1 uL
480-107695-K-4	Sump 4	8260C	T	1 uL
480-107718-E-1	OUTFALL Z3	8260C	T	1 uL
480-107777-G-12	Equipment Blank #1	8260C	T	1 uL
480-107777-G-14	MW-15	8260C	T	1 uL
480-107777-G-18	MW-3R	8260C	T	1 uL
480-107644-C-6~MS	MW-2R	8260C	T	1 uL
480-107644-C-6~MSD	MW-2R	8260C	T	1 uL

GC/MS VOA Worksheet

Batch Number: 480-325847
Method: 8260C
Analyst: Gentile, Joseph W

Date Open: Oct 15 2016 5:03PM
Batch End:

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
BFB~480-325847/1		8260C		
CCVIS~480-325847/2		8260C		
CCV~480-325847/3		8260C		
LCS~480-325847/4		8260C		
RL~480-325847/5				
MB~480-325847/6		8260C		
480-107409-K-1	LLI	8260C	T	
480-107471-A-4	MW-18	8260C	T	
480-107471-A-5	MW-20	8260C	T	
480-107471-A-6	MW-21	8260C	T	
480-107471-A-9	PZ-11R	8260C	T	
480-107471-A-10	PZ-13R	8260C	T	
480-107471-A-11	A2-PZ-1	8260C	T	Historical confirmation in B:325955
480-107471-A-12	A2-PZ-2	8260C	T	
480-107471-A-13	A1-PZ-2	8260C	T	
480-107471-A-16	MW-10	8260C	T	
480-107655-E-1	INFLUENT	8260C	T	
480-107695-K-4	Sump 4	8260C	T	
480-107718-E-1	OUTFALL Z3	8260C	T	
480-107777-G-12	Equipment Blank #1	8260C	T	
480-107777-G-14	MW-15	8260C	T	
480-107777-G-18	MW-3R	8260C	T	
480-107644-C-6~MS	MW-2R	8260C	T	
480-107644-C-6~MSD	MW-2R	8260C	T	

GC/MS VOA Worksheet

Batch Number: 480-325887
Method: 8260C
Analyst: Archer, Nicholas E

Date Open: Oct 16 2016 6:20PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	2MTP_WRK_00056	3MTP_WRK_00058
BFB~480-325887/1		8260C			1 uL	1 uL	HP5973N		
CCV~480-325887/3		8260C			5 mL	5 mL	HP5973N	12.5 uL	12.5 uL
CCVIS~480-325887/4		8260C			5 mL	5 mL	HP5973N		
RL~480-325887/5					5 mL	5 mL	HP5973N		
MB~480-325887/6		8260C			5 mL	5 mL	HP5973N		
LCS~480-325887/26		8260C			5 mL	5 mL	HP5973N		
480-107471-B-11	A2-PZ-1	8260C	T	7 SU	5 mL	5 mL	HP5973N		
480-107471-B-12	A2-PZ-2	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107486-A-7	TRIP BLANK	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107499-D-5	OW16R	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107499-D-6	MW64R	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107499-D-7	W101	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107499-D-8	W101B	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107514-F-1	DUP1	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107514-F-2	GWB-1	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107514-F-3	GWB-2	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107514-F-4	GWB-3	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107514-F-5	GWC-10	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107514-F-6	GWC-7AR	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107514-F-7	GWC-8A	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107514-F-8	GWC-8R	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107695-L-4	Sump 4	8260C	T	7 SU	5 mL	5 mL	HP5973N		
480-107471-B-12~MS		8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107471-B-12~MSD		8260C	T	<2 SU	5 mL	5 mL	HP5973N		

GC/MS VOA Worksheet

Batch Number: 480-325887
Method: 8260C
Analyst: Archer, Nicholas E

Date Open: Oct 16 2016 6:20PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	8260 CORP mix_00083	ADD CORP mix_00051	BFB_WRK_00056	GAS CORP mix_00183	N 8260 IS_00038	N_8260_Surr_00211
BFB~480-325887/1		8260C				1 uL			
CCV~480-325887/3		8260C			12.5 uL			1 uL	1 uL
CCVIS~480-325887/4		8260C		12.5 uL			12.5 uL	1 uL	1 uL
RL~480-325887/5				1 uL			1 uL	1 uL	1 uL
MB~480-325887/6		8260C						1 uL	1 uL
LCS~480-325887/26		8260C		12.5 uL			12.5 uL	1 uL	1 uL
480-107471-B-11	A2-PZ-1	8260C	T					1 uL	1 uL
480-107471-B-12	A2-PZ-2	8260C	T					1 uL	1 uL
480-107486-A-7	TRIP BLANK	8260C	T					1 uL	1 uL
480-107499-D-5	OW16R	8260C	T					1 uL	1 uL
480-107499-D-6	MW64R	8260C	T					1 uL	1 uL
480-107499-D-7	W101	8260C	T					1 uL	1 uL
480-107499-D-8	W101B	8260C	T					1 uL	1 uL
480-107514-F-1	DUP1	8260C	T					1 uL	1 uL
480-107514-F-2	GWB-1	8260C	T					1 uL	1 uL
480-107514-F-3	GWB-2	8260C	T					1 uL	1 uL
480-107514-F-4	GWB-3	8260C	T					1 uL	1 uL
480-107514-F-5	GWC-10	8260C	T					1 uL	1 uL
480-107514-F-6	GWC-7AR	8260C	T					1 uL	1 uL
480-107514-F-7	GWC-8A	8260C	T					1 uL	1 uL
480-107514-F-8	GWC-8R	8260C	T					1 uL	1 uL
480-107695-L-4	Sump 4	8260C	T					1 uL	1 uL
480-107471-B-12~MS		8260C	T	12.5 uL			12.5 uL	1 uL	1 uL
480-107471-B-12~MSD		8260C	T	12.5 uL			12.5 uL	1 uL	1 uL

GC/MS VOA Worksheet

Batch Number: 480-325887
Method: 8260C
Analyst: Archer, Nicholas E

Date Open: Oct 16 2016 6:20PM
Batch End:

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
BFB~480-325887/1		8260C		
CCV~480-325887/3		8260C		
CCVIS~480-325887/4		8260C		
RL~480-325887/5				
MB~480-325887/6		8260C		
LCS~480-325887/26		8260C		
480-107471-B-11	A2-PZ-1	8260C	T	RA - DL
480-107471-B-12	A2-PZ-2	8260C	T	
480-107486-A-7	TRIP BLANK	8260C	T	
480-107499-D-5	OW16R	8260C	T	
480-107499-D-6	MW64R	8260C	T	
480-107499-D-7	W101	8260C	T	new gas mix created for next window.
480-107499-D-8	W101B	8260C	T	new gas mix created for next window.
480-107514-F-1	DUP1	8260C	T	new gas mix created for next window.
480-107514-F-2	GWB-1	8260C	T	new gas mix created for next window.
480-107514-F-3	GWB-2	8260C	T	new gas mix created for next window.
480-107514-F-4	GWB-3	8260C	T	new gas mix created for next window.
480-107514-F-5	GWC-10	8260C	T	new gas mix created for next window.
480-107514-F-6	GWC-7AR	8260C	T	new gas mix created for next window.
480-107514-F-7	GWC-8A	8260C	T	new gas mix created for next window.
480-107514-F-8	GWC-8R	8260C	T	new gas mix created for next window.
480-107695-L-4	Sump 4	8260C	T	new gas mix created for next window.
480-107471-B-12~MS		8260C	T	new gas mix created for next window.
480-107471-B-12~MSD		8260C	T	new gas mix created for next window.

GC/MS VOA Worksheet

Batch Number: 480-325955
Method: 8260C
Analyst: Youngman, Shawna M

Date Open: Oct 17 2016 8:10AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	2MTP_WRK_00056	3MTP_WRK_00058
BFB~480-325955/2		8260C			1 uL	1 uL	HP5973N		
CCVIS~480-325955/3		8260C			5 mL	5 mL	HP5973N		
CCV~480-325955/4		8260C			5 mL	5 mL	HP5973N	12.5 uL	12.5 uL
LCS~480-325955/5		8260C			5 mL	5 mL	HP5973N		
RL~480-325955/6					5 mL	5 mL	HP5973N		
MB~480-325955/7		8260C			5 mL	5 mL	HP5973N		
480-107471-C-11	A2-PZ-1	8260C	T	7 SU	5 mL	5 mL	HP5973N		
480-107547-A-2	EMW-3	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107547-A-11	EMW-29	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107547-A-14	EMW-33	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107547-A-15	EMW-35	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107547-A-16	EMW-36	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107547-A-17	RW-2	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107547-A-18	RW-3	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107547-A-28	2-1	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107547-A-29	2-2	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107547-A-30	2-3	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107547-A-31	2-4	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107547-A-32	2-5	8260C	T	7 SU	5 mL	5 mL	HP5973N		
480-107547-A-33	2-6	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107547-A-34	2-7	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107547-A-35	2-8	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107547-A-36	2-9	8260C	T	7 SU	5 mL	5 mL	HP5973N		
480-107547-A-37	2-10	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-107471-C-11~MS		8260C	T	7 SU	5 mL	5 mL	HP5973N		

GC/MS VOA Worksheet

Batch Number: 480-325955
Method: 8260C
Analyst: Youngman, Shawna M

Date Open: Oct 17 2016 8:10AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	8260 CORP mix_00083	ADD CORP mix_00051	BFB_WRK_00056	GAS CORP mix_00184	N 8260 IS_00038	N_8260_Surr_00211
BFB~480-325955/2		8260C				1 uL			
CCVIS~480-325955/3		8260C		12.5 uL			12.5 uL	1 uL	1 uL
CCV~480-325955/4		8260C			12.5 uL			1 uL	1 uL
LCS~480-325955/5		8260C		12.5 uL			12.5 uL	1 uL	1 uL
RL~480-325955/6				1 uL			1 uL	1 uL	1 uL
MB~480-325955/7		8260C						1 uL	1 uL
480-107471-C-11	A2-PZ-1	8260C	T					1 uL	1 uL
480-107547-A-2	EMW-3	8260C	T					1 uL	1 uL
480-107547-A-11	EMW-29	8260C	T					1 uL	1 uL
480-107547-A-14	EMW-33	8260C	T					1 uL	1 uL
480-107547-A-15	EMW-35	8260C	T					1 uL	1 uL
480-107547-A-16	EMW-36	8260C	T					1 uL	1 uL
480-107547-A-17	RW-2	8260C	T					1 uL	1 uL
480-107547-A-18	RW-3	8260C	T					1 uL	1 uL
480-107547-A-28	2-1	8260C	T					1 uL	1 uL
480-107547-A-29	2-2	8260C	T					1 uL	1 uL
480-107547-A-30	2-3	8260C	T					1 uL	1 uL
480-107547-A-31	2-4	8260C	T					1 uL	1 uL
480-107547-A-32	2-5	8260C	T					1 uL	1 uL
480-107547-A-33	2-6	8260C	T					1 uL	1 uL
480-107547-A-34	2-7	8260C	T					1 uL	1 uL
480-107547-A-35	2-8	8260C	T					1 uL	1 uL
480-107547-A-36	2-9	8260C	T					1 uL	1 uL
480-107547-A-37	2-10	8260C	T					1 uL	1 uL
480-107471-C-11~MS		8260C	T	12.5 uL			12.5 uL	1 uL	1 uL

GC/MS VOA Worksheet

Batch Number: 480-325955
Method: 8260C
Analyst: Youngman, Shawna M

Date Open: Oct 17 2016 8:10AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	2MTP_WRK_00056	3MTP_WRK_00058
480-107471-C-11~MSD		8260C	T	7 SU	5 mL	5 mL	HP5973N		

GC/MS VOA Worksheet

Batch Number: 480-325955
Method: 8260C
Analyst: Youngman, Shawna M

Date Open: Oct 17 2016 8:10AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	8260 CORP mix_00083	ADD CORP mix_00051	BFB_WRK_00056	GAS CORP mix_00184	N 8260 IS_00038	N_8260_Surr_00211
480-107471-C-11~MSD		8260C	T	12.5 uL			12.5 uL	1 uL	1 uL

GC/MS VOA Worksheet

Batch Number: 480-325955
Method: 8260C
Analyst: Youngman, Shawna M

Date Open: Oct 17 2016 8:10AM
Batch End:

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
BFB~480-325955/2		8260C		
CCVIS~480-325955/3		8260C		
CCV~480-325955/4		8260C		
LCS~480-325955/5		8260C		
RL~480-325955/6				
MB~480-325955/7		8260C		
480-107471-C-11	A2-PZ-1	8260C	T	Peak area for cis-1,2-dichloroethene is higher, the first shot was saturated.
480-107547-A-2	EMW-3	8260C	T	
480-107547-A-11	EMW-29	8260C	T	
480-107547-A-14	EMW-33	8260C	T	
480-107547-A-15	EMW-35	8260C	T	A lower dilution is needed.
480-107547-A-16	EMW-36	8260C	T	
480-107547-A-17	RW-2	8260C	T	
480-107547-A-18	RW-3	8260C	T	
480-107547-A-28	2-1	8260C	T	
480-107547-A-29	2-2	8260C	T	A lower dilution is needed.
480-107547-A-30	2-3	8260C	T	
480-107547-A-31	2-4	8260C	T	
480-107547-A-32	2-5	8260C	T	
480-107547-A-33	2-6	8260C	T	A lower dilution is needed.
480-107547-A-34	2-7	8260C	T	
480-107547-A-35	2-8	8260C	T	
480-107547-A-36	2-9	8260C	T	
480-107547-A-37	2-10	8260C	T	
480-107471-C-11~MS		8260C	T	

GC/MS VOA Worksheet

Batch Number: 480-325955
Method: 8260C
Analyst: Youngman, Shawna M

Date Open: Oct 17 2016 8:10AM
Batch End:

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
480-107471-C-11~MSD		8260C	T	

Shipping and Receiving Documents

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: L. Best	Lab PM: VanDette, Ryan T	Car	COC No: 480-88042-19158.1
Client Contact: Bob Mahoney	Phone: 585-413-5327	E-Mail: ryan.vandette@testamericainc.com		Page: Page 1 of 2
Company: Stantec Consulting Services Inc		Analysis Reque	480-107471 COC	Job #:
Address: 61 Commercial Street	Due Date Requested:			Preservation Codes:
City: Rochester	TAT Requested (days): 10 day			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA; M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: NY, 14614				
Phone: 585-413-5301	PO #: Purchase Order not required			
Email: bob.mahoney@stantec.com	WO #: 10137			
Project Name: LMC - Quarterly Event Desc: Lockheed Martin Corp - Quarterly	Project #: 48002828			Other:
Site: New York	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL list OLM04.2	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
TRIP BLANK	10/10/16	12:00	G	Water			X	2	
MW-3	10/10/16	15:20	G	Water			X	3	
MW-1	10/10/16	16:45	G	Water			X	3	
~~MW-19S~~				~~Water~~					123
MW-18	10/11/16	14:10	G	Water			X	3	
MW-20	10/11/16	10:05	G	Water			X	3	
MW-21	10/11/16	09:25	G	Water			X	3	
PZ-5	10/10/16	13:55	G	Water			X	3	
PZ-6	10/10/16	13:40	G	Water			X	1	
~~PZ-8~~				~~Water~~					112
PZ-11R	10/11/16	14:45	G	Water			X	2	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) NYSDEC ASP Category B

Special Instructions/QC Requirements: NYSDEC EQuIS EDD

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Laura Best	10/11/16 17:00	Stantec	[illegible]	10/11/16 1700	SYR
R. English	10-11-16 19:00	Syr	[illegible]	10-12-16 0045	TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.3 #1

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: L. Best	Lab PM: VanDette, Ryan T	Carrier Tracking No(s):	COC No: 480-88042-19158.2
Client Contact: Bob Mahoney	Phone: 585-413-5327	E-Mail: ryan.vandette@testamericainc.com		Page: Page 2 of ~~3~~ 2
Company: Stantec Consulting Services Inc				Job #:
Address: 61 Commercial Street	Due Date Requested:			
City: Rochester	TAT Requested (days): 10 day			
State, Zip: NY, 14614				
Phone: 585-413-5301	PO #: Purchase Order not required			
Email: bob.mahoney@stantec.com	WO #: 10137			
Project Name: LMC - Quarterly Event Desc: Lockheed Martin Corp - Quarterly	Project #: 48002828			
Site: New York	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL list OLM04.2	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
PZ-13R	10/11/16	15:00	G	Water			X	3	
A2-PZ-1	10/11/16	11:25	G	Water			X	3	
A2-PZ-2	10/11/16	14:25	G	Water			X	3	
A1-PZ-2	10/11/16	10:45	G	Water			X	3	
MW-2	10/10/16	16:50	G	Water		Y	X	9	MS/MSD
MW-4	10/10/16	16:00	G	Water			X	3	
MW-10	10/11/16	08:50	G	Water			X	3	
MW-1-S/D	10/10/16	16:50	G	Water			X	3	
				Water					
Lana Best 10/11/16				Water					
				Water					

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) NYSDEC ASP Category B

Special Instructions/QC Requirements: NYSDEC EQuIS EDD

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Lana Best	10/11/16 17:00	Stantec	[illegible]	10/11/16 1700	SVL
Relinquished by: Rez Hallik	Date/Time: 10.11.16, 19:00	Company Syr	Received by: [illegible]	Date/Time: 10-12-16 0045	Company TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 1.3 #1

483325 - Syracuse SC
10/27/2016

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 480-107471-1
SDG Number:

Login Number: 107471
List Number: 1
Creator: Williams, Christopher S

List Source: TestAmerica Buffalo

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 (Excluding tests with immediate HTs)..	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	STANTEC
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	

Appendix D-6

2016 Groundwater Sampling Logs

DRAFT

Stantec

61 Commercial Street
Rochester, NY 14614
(585) 475-1440

Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY — Well ID: MW-1

Depth to Water: 8.00 ft TOIC — Weather: ~5-10°F, sunny — Date: 1/6/16

Total Well Depth: 17.65 ft TOIC — Time elapsed for one volume: ~20 min — Purge Start Time: 0855

Depth to Pump: — ft TOIC — DO Method: downhole — Purge End Time: 0940

Initial Pump Rate: — mL/min — Evacuation Method: bailer

adjusted to: — mL/min at — minutes — Well Diameter: 4 inches

adjusted to: — mL/min at — minutes — Well Volume: 6.3 gallons

Purge Data

Water column in well 9.65 ft

Gallons in well 6.3

Gal. Purged Prior to Sampling ~~43.5~~ LB ~14.0

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume 6.5	2 Volume 6.5	3 Volume/Sample	@ 1430 (sample params)
Time	0855	0915	0940	/	14:30
DTW (ft TOIC)	8.00	11.88	15.75	dry @ 09:43	8.12
pH (s.u)	6.87	7.67	7.51	~~after ~1 gal~~	7.78
Conductivity (mS/cm)	0.730 LB	0.391	0.81	after ~1 gal 0.81	~~11.8~~ LB
Temperature (°C)	12.2	10.7	9.6	11.7	Downhole DO/ORP (final)
DO (mg/L)	5.62	4.29	3.42	6.97	8.07
ORP (mV)	138.0	99.1	50.2	49.3	65.2
Turbidity (NTU)	1.24	8.19	12.0	30.8	

Comments: WL @ 14:30 = 8.12 ; collected final params + sample

Sample ID(s): MW-1 / MW-1-S / D

Sample Time: 14:40 / 14:45

Sampler(s): L. Best

Equipment: Lamotte FA01886 YSI FA01462 Heron FA00061 ProDO FA00356 DH ORP FA00007

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	6	HCl	☒	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Sample color: —

Sample odor: no odor

Sample appearance: clear, slightly cloudy

Other comments: —

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Rochester, NY 14614
(585) 475-1440

Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: MW-3
Depth to Water: 10.75 ft TOIC
Weather: 10's sunny
Date: 1/6/16
Total Well Depth: 15.05 ft TOIC
Time elapsed for one volume: ~5-15
Purge Start Time: 853
Depth to Pump: — ft TOIC
DO Method: downhole
Purge End Time: 915
Initial Pump Rate: — mL/min
Evacuation Method: Bailer
adjusted to: — mL/min at — minutes
Well Diameter: 2 inches
adjusted to: — mL/min at — minutes
Well Volume: 0.7 gallons

Purge Data

Water column in well 4.3
Gallons in well 0.7
Gal. Purged Prior to Sampling 2.1

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	854	903	910	932	
DTW (ft TOIC)	10.75	12.5	12.3	11.32	
pH (s.u)	7.10	7.04	7.21	7.47	
Conductivity (mS/cm)	0.694	0.85	0.92	0.911	
Temperature (°C)	8.3	10.6	8.8	8.1	
DO (mg/L)	5.60	3.00	3.14	5.16	3.20
ORP (mV)	183.9	185.5	180.6	154.3	105.0
Turbidity (NTU)	2.66	11.0	15.3		

Comments: Last Bailer Before Sampling Turbid -> Allow to recover for Sample

Sample ID(s): MW-3
Sample Time: 932
Sampler(s): K. Premo

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☑ VOCs	3	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: WL FA0270/YSI FA01787/Hach FA02122 ProDO FA00356 DH ORP FA00007

Sample color: —
Sample odor: none
Sample appearance: Clear

Other comments:

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(585) 475-1440

Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: MW-13S

Depth to Water: 6.68 ft TOIC
Weather: 10° Sunny
Date: 1/6/16

Total Well Depth: 6.90 ft TOIC
Time elapsed for one volume: —
Purge Start Time: 1010

Depth to Pump: - ft TOIC
DO Method: —
Purge End Time: 1010

Initial Pump Rate: - mL/min
Evacuation Method: Bailer

adjusted to: - mL/min at _____ minutes
Well Diameter: 2 inches

adjusted to: - mL/min at _____ minutes
Well Volume: _____ gallons

Purge Data

Water column in well 0.3
Gallons in well 0.03
Gal. Purged Prior to Sampling _____

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	1010				
DTW (ft TOIC)	-				
pH (s.u)	7.42				
Conductivity (mS/cm)	0.65				
Temperature (°C)	5.4				
DO (mg/L)	17.20				
ORP (mV)	133.7				
Turbidity (NTU)					

Comments: Dry after ~2" of water from Bailer was removed
WLC 9050 on 1/7/16 - 6.65 ft - only enough water for one VOA

Sample ID(s): MW-13S
Sample Time: 9100 on 1/7/16
Sampler(s): K. Prno

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	1	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: _____
Sample color: _____
Sample odor: _____
Sample appearance: _____

Other comments: _____

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3

Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY

Well ID: MW-18

Depth to Water: 3.05 ft TOIC

Weather: Snow 20°F

Date: 1/6/13 06

Total Well Depth: 14.5 ft TOIC

Time elapsed for one volume:

Purge Start Time: 1340

Depth to Pump: – ft TOIC

DO Method: Downhole

Purge End Time: 1400

Initial Pump Rate: – mL/min

Evacuation Method: Bailer

adjusted to: – mL/min at _____ minutes

Well Diameter: 2 inches

adjusted to: – mL/min at _____ minutes

Well Volume: 1.9 gallons

Purge Data

Water column in well 11.45

Gallons in well 1.9

Gal. Purged Prior to Sampling 6

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	1340	1346	1353	1420	
DTW (ft TOIC)	3.05	7.03	9.30	8.65	
pH (s.u)	7.52	7.46	7.4	7.73	
Conductivity (mS/cm)	0.99	1.11	1.24	0.497	
Temperature (°C)	8.6	9.6	9.8	9.3	
DO (mg/L)	2.03	1.98	1.91	2.55	0
ORP (mV)	-48.2	-66.3	-55.1	-78.5	-79.3
Turbidity (NTU)	43.6	110	2936 AU	1350	

Comments:

Sample ID(s): MW-18

Sample Time: 1420

Sampler(s): K. Perno

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☑ VOCs	3	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: WL Fit 0270 / YSI FAC787 / TUR FA0272

Sample color: Gray

Sample odor: Slight sulfur odor

Sample appearance: Cloudy

Other comments:

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Stantec
61 Commercial Street
Rochester, NY 14614
(585) 475-1440

Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: MW-20
Depth to Water: 2.50 ft TOIC
Weather: Sunny 13°F
Date: 1/7/16
Total Well Depth: 14.5 ft TOIC
Time elapsed for one volume:
Purge Start Time: 939
Depth to Pump: — ft TOIC
DO Method: downhole
Purge End Time: 950
Initial Pump Rate: — mL/min
Evacuation Method: Bailer
adjusted to: — mL/min at ____ minutes
Well Diameter: 2 inches
adjusted to: ✓ mL/min at ____ minutes
Well Volume: 20 gallons

Purge Data

Water column in well 12
Gallons in well 20
Gal. Purged Prior to Sampling

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	939	942	946	950	
DTW (ft TOIC)	2.50	5.42	7.22	7.90	
pH (s.u)	7.09	7.10	7.24	7.11	
Conductivity (mS/cm)	7.75	8.28	7.47	7.69	
Temperature (°C)	9.5	11.2	11.6	10.7	
DO (mg/L)	12.7	2.18	3.17	1.54	0.42
ORP (mV)	-86.9	-93.3	-92.6	-90.2	-61.8
Turbidity (NTU)	1742	1212	2751	Overrange	

Comments: Initially slight sulfur smell

Sample ID(s): MW-20
Sample Time: 950
Sampler(s): K. Pinto / L. Best

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☑ VOCs	3	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: Lumotec FA01886 | YSI FA01787 | WL FA01270
Sample color: Brown - Gray
Sample odor: Slight Sulfur
Sample appearance: Cloudy

Other comments:

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: MW-21

Depth to Water: 2.63 ft TOIC
Weather: ~10°F, sunny
Date: 1/6/16

Total Well Depth: 14.35 ft TOIC
Time elapsed for one volume: ~10min
Purge Start Time: 11:20

Depth to Pump: — ft TOIC
DO Method: downhole
Purge End Time: 11:50

Initial Pump Rate: — mL/min
Evacuation Method: bailer

adjusted to: — mL/min at — minutes
Well Diameter: 2 inches

adjusted to: — mL/min at — minutes
Well Volume: 1.9 gallons

Purge Data

Water column in well 11.72 ft
Gallons in well 1.9
Gal. Purged Prior to Sampling ~6

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	11:20	11:30	11:40	11:50	
DTW (ft TOIC)	2.63	5.49	6.48	6.65	
pH (s.u)	7.78	7.73	7.76	7.76	
Conductivity (mS/cm)	1.82	2.12	1.33	3.01	
Temperature (°C)	6.3	9.0	10.2	10.1	
DO (mg/L)	1.52	2.06	2.47	1.34	0.21
ORP (mV)	-36.4	-85.4	-103.9	-114.6	-143.3
Turbidity (NTU)	1299 AU	667 AU	1103 AU	1110 AU	

Comments:

Sample ID(s): MW-21 (MS/MSD)
Sample Time: 12:00
Sampler(s): L. Best

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	9	HCl	☐	☒
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: Horiba FA00001 YSI FA014462 ~~Lamotte~~ FA01886

Sample color: light grayish brown
Sample odor: none
Sample appearance: cloudy

Other comments:

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(585) 475-1440

Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY

Well ID: A1-PZ-2

Depth to Water: 2.24 ft TOIC

Weather: Sunny 215°F

Date: 1/7/16

Total Well Depth: 12.15 ft TOIC

Time elapsed for one volume:

Purge Start Time: 924

Depth to Pump: – ft TOIC

DO Method: bailer

Purge End Time: 932

Initial Pump Rate: – mL/min

Evacuation Method: Bailer

adjusted to: – mL/min at ____ minutes

Well Diameter: 1 inches

adjusted to: – mL/min at ____ minutes

Well Volume: ~~1.6~~ 0.4 gallons

Purge Data

Water column in well 9.92

Gallons in well ~~1.6~~ (HP) 0.4

Gal. Purged Prior to Sampling 1

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	924	927	930	1005	
DTW (ft TOIC)	2.24	7.92	10.30	4.95	
pH (s.u)	8.55	7.96	7.96	8.47	
Conductivity (mS/cm)	0.633	1.30	0.82	0.672	
Temperature (°C)	8.6	10.2	10.2	10.7	
DO (mg/L)	2.45	2.53	3.18	1.23	*
ORP (mV)	57.7	-100.6	-85.0	-107.7	*
Turbidity (NTU)	654 AU	Overrange	Overrange		

Comments: Draw @ 932 at 1 gallon at 1005 4.95 ft

*downhole probes do not fit in this well

Sample ID(s): A1-PZ-2

Sample Time: 1010

Sampler(s): K. Prendergast / L. Best

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	3	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: remote FA01886 | YSI FA09787 | WL FA01270

Sample color:

Sample odor:

Sample appearance:

Other comments:

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Stantec
61 Commercial Street
Rochester, NY 14614
(585) 475-1440

Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: A2-PZ-1

Depth to Water: 4.28 ft TOIC
Weather: 10°F Sunny
Date: 1/6/16

Total Well Depth: 14.45 ft TOIC
Time elapsed for one volume:
Purge Start Time: 1032

Depth to Pump: - ft TOIC
DO Method: downhole
Purge End Time: 1055

Initial Pump Rate: - mL/min
Evacuation Method: Bailer

adjusted to: - mL/min at ____ minutes
Well Diameter: 1 inches

adjusted to: - mL/min at ____ minutes
Well Volume: 0.4 gallons

Purge Data

Water column in well 10.17
Gallons in well 0.4
Gal. Purged Prior to Sampling 1.2

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	1032	1038	1045	1115	
DTW (ft TOIC)	4.28	6.30	7.49	7.00	
pH (s.u)	7.45	7.36	7.47	7.47	
Conductivity (mS/cm)	0.419	0.95	0.84	1.04	
Temperature (°C)	5.2	7.9	7.2	7.3	
DO (mg/L)	3.15	1.76	2.69	5.24	0.47
ORP (mV)	13.8	-58.1	-47.6	-41.6	-43.8
Turbidity (NTU)	72/ACL	276/ACL	0 (very turbid when)	overrange	

Comments: very turbid @ 1055 after 1.2 gallons, set well
Reverse pump 20 mins then sample / collect last
set DC pump

Sample ID(s): A2-PZ-1
Sample Time: 1115
Sampler(s): K. Franco

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☑ VOCs	3	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: WL PA012705 FA017863/TWD PA02122
Sample color: white - gray
Sample odor: strong solvent like odor
Sample appearance: cloudy

Other comments:

Stantec

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Rochester, NY 14614
(585) 475-1440

Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY

Well ID: A2-PZ-2

Depth to Water: 6.52 ft TOIC

Weather: 5-10°F, sunny

Date: 1/6/16

Total Well Depth: 14.85 ft TOIC

Time elapsed for one volume: ~10-15 min

Purge Start Time: 10:30

Depth to Pump: — ft TOIC

DO Method: downhole

Purge End Time: 10:55

Initial Pump Rate: — mL/min

Evacuation Method: bailer

adjusted to: — mL/min at — minutes

Well Diameter: 1 inches

adjusted to: — mL/min at — minutes

Well Volume: 0.34 gallons

Purge Data

Water column in well 8.33 ft

Gallons in well 0.34

Gal. Purged Prior to Sampling

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	6.52 10:30	1045	10:50	1/6/15 1345	
DTW (ft TOIC)		8.95	14.55	6.95	
pH (s.u)	7.49	7.43	7.52	7.47	
Conductivity (mS/cm)	0.80	0.87	0.497	1.13	
Temperature (°C)	6.5	8.3	8.2	8.5	
DO (mg/L)	4.99	6.15	6.03	4.24	3.47
ORP (mV)	47.9	27.9	-416.9	36.6	~~96.7~~ 1.4
Turbidity (NTU)	13.30	2917 AU	overrange	663 AU	

Comments: dry on 1/6/15 @ 10:55 after bailing ~0.8 gal; allowed well to recharge; WL almost returned to static @ 1345 (1/6/15); collected final param set & sampled

Sample ID(s): A2-PZ-2

Sample Time: 13:50

Sampler(s): L. Best

Equipment: Horiba FA00061 YSI FA01462 Lamotte FA01886

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	3	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Sample color: light (very pale) yellow-brown

Sample odor: none

Sample appearance: ~~cloudy during purge~~, becoming dark br & very turbid @ end
- after recharge: lt br, cloudy

Other comments: —

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Stantec
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Rochester, NY 14614
(585) 475-1440

Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: PZ5
Depth to Water: 8.31 ft TOIC
Weather: Inside
Date: ~~1/6/16~~ 1/5/16
Total Well Depth: 10.77 ft TOIC
Time elapsed for one volume:
Purge Start Time: 1525
Depth to Pump: – ft TOIC
DO Method:
Purge End Time: 1525
Initial Pump Rate: – mL/min
Evacuation Method: Bailer
adjusted to: – mL/min at ____ minutes
Well Diameter: 1 inches
adjusted to: – mL/min at ____ minutes
Well Volume: 0.1 gallons

Purge Data

Water column in well
Gallons in well
Gal. Purged Prior to Sampling 0 | Total ~ ~~0.1~~ 0.2

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time					
DTW (ft TOIC)					
pH (s.u)					
Conductivity (mS/cm)					
Temperature (°C)					
DO (mg/L)					
ORP (mV)					
Turbidity (NTU)					

Downhole Start ORP ~~127.7~~ 127.2
DO 1.89

Comments: TM Resample PZ-5 - collected one vial @ 1535 on 1/6/16

Sample ID(s): PZ-5
Sample Time: 1525 on 1/5/16 (3)
1535 on 1/6/16 (1)
Sampler(s): K. Pierce / B. Henderson / C. Henderson

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☑ VOCs	3	HCl	☐	☐
☐ SVOCs	1		☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: DO FAQ2356 / ORP FAQ0007
Sample color: Clear
Sample odor: None
Sample appearance:

Other comments:

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY

Well ID: PZ-6

Depth to Water: 8.38 ft TOIC

Weather: Inside

Date: 1/5/16

Total Well Depth: 10.42 ft TOIC

Time elapsed for one volume:

Purge Start Time: 1515

Depth to Pump: — ft TOIC

DO Method: Downhole at start before purging

Purge End Time: 1518

Initial Pump Rate: — mL/min

Evacuation Method: Bailer

adjusted to: — mL/min at _____ minutes

Well Diameter: 1 inches

adjusted to: — mL/min at _____ minutes

Well Volume: 0.08 gallons

Purge Data

Water column in well _____

Gallons in well _____

Gal. Purged Prior to Sampling 0 | Total Purged <0.1 gal

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time					Downhole (start) DO: 2.25
DTW (ft TOIC)					
pH (s.u)					ORP: 106.5
Conductivity (mS/cm)					
Temperature (°C)					
DO (mg/L)					
ORP (mV)					
Turbidity (NTU)					

Comments:

Sample ID(s): PZ-6

Resample 1/6/16 @ 1530 Dry after screening 2 vials

Sample Time: ~~1515 on 1/5/16~~ → will submit sample from 1/6/16
1/6/16 @ 15:30

Sampler(s): K. Prono / B. Horowitz / C. Yorkston

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☑ VOCs	~~3~~ 2	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: FA000356-DO / FA000007 ORP

Sample color: Reddish Brown

Sample odor: None

Sample appearance:

Other comments:

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: PZ8
Depth to Water: 9.02 ft TOIC
Weather: Inside
Date: ~~1/6~~ 1/5/16
Total Well Depth: 9.82 ft TOIC
Time elapsed for one volume:
Purge Start Time: 1535
Depth to Pump: — ft TOIC
DO Method: Downhole
Purge End Time: 1538
Initial Pump Rate: — mL/min
Evacuation Method:
adjusted to: — mL/min at ____ minutes
Well Diameter: 1 inches
adjusted to: — mL/min at ____ minutes
Well Volume: ____ gallons

Purge Data

Water column in well ____
Gallons in well ____
Gal. Purged Prior to Sampling ____

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample
Time				
DTW (ft TOIC)				
pH (s.u)				
Conductivity (mS/cm)				
Temperature (°C)				
DO (mg/L)				
ORP (mV)				
Turbidity (NTU)				

Downhole (EMT) DO 5.25 ORP 136.5

Downhole DO/ORP (final)

Comments: WL on 1/6/16 @ ~1540 = 9.13 (not enough to collect one vial for "recharged" sample)

Sample ID(s): PZ-8
Sample Time: 1535 on 1/5/16
Sampler(s): K Prance / C Yorrington / B Hazelton

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	1	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: DO FA00350 | ORP FA00007
Sample color:
Sample odor: none
Sample appearance: cloudy

Other comments:

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: PZ-11R

Depth to Water: 8.46 ft TOIC
Weather: Sunny ~ 15°F
Date: 1/7/16

Total Well Depth: 9.91 ft TOIC
Time elapsed for one volume: —
Purge Start Time: 840

Depth to Pump: - ft TOIC
DO Method: bailer
Purge End Time: 845

Initial Pump Rate: - mL/min
Evacuation Method: Bailer

adjusted to: - mL/min at _____ minutes
Well Diameter: 1 inches

adjusted to: ✓ mL/min at _____ minutes
Well Volume: 0.06 gallons

Purge Data

Water column in well 1.45
Gallons in well 0.06 = 227mL
Gal. Purged Prior to Sampling ~150 mL

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	840				
DTW (ft TOIC)	8.46				
pH (s.u)	7.36				
Conductivity (mS/cm)	4.82				
Temperature (°C)	8.1				
DO (mg/L)	4.43				
ORP (mV)	126.3				
Turbidity (NTU)	1029 AU				

Comments: Dry well 150mL @ 845 ; WL @ 11:40 on 1/7/16 = 8.40 insufficient vol. to collect final sample params.

Sample ID(s): PZ-11R
Sample Time: 11:45
Sampler(s): K. Prenno / L. Best

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	3	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: ~~[illegible]~~ / ~~[illegible]~~ / ~~[illegible]~~ /

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY

Well ID: PZ-13R

Depth to Water: 8.10 ft TOIC

Weather: sunny/~15°F

Date: 11/7/16

Total Well Depth: 9.87 ft TOIC

Time elapsed for one volume: —

Purge Start Time: 8 52

Depth to Pump: — ft TOIC

DO Method: bailer

Purge End Time: 8 56

Initial Pump Rate: — mL/min

Evacuation Method: Bailer

adjusted to: — mL/min at _____ minutes

Well Diameter: 1 inches

adjusted to: — mL/min at _____ minutes

Well Volume: 0.07 gallons

Purge Data

Water column in well 1.77

Gallons in well 0.07 = 264 mL

Gal. Purged Prior to Sampling ~175 mL

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	852				
DTW (ft TOIC)	8.10				
pH (s.u)	7.46				
Conductivity (mS/cm)	8.30				
Temperature (°C)	7.6				
DO (mg/L)	4.33				
ORP (mV)	133.3				
Turbidity (NTU)	36.8				

Comments: Dry pkr 175 mL @ 856. WL at 8.10 at 1155; insufficient vol. for final sample parameter collection

Sample ID(s): PZ-13R

Sample Time: 1155

Sampler(s): K Pino/LBest

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☑ VOCs	3	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: WL FA01270 / YSI FA01767 Turbidimeter FA01886

Sample color: yellow tint

Sample odor: none

Sample appearance: cloudy

Other comments:

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: MW-1

Depth to Water: 7.75 ft TOIC
Weather: 20s, overcast
Date: 4/6/16

Total Well Depth: 17.32 ft TOIC
Time elapsed for one volume: 20-30 min.
Purge Start Time: 0926

Depth to Pump: — ft TOIC
DO Method: downhole
Purge End Time: 1010

Initial Pump Rate: — mL/min
Evacuation Method: Bailer

adjusted to: — mL/min at — minutes
Well Diameter: 4 inches

adjusted to: — mL/min at — minutes
Well Volume: 6.25 gallons

Purge Data

Water column in well 9.57
Gallons in well 6.25
Gal. Purged Prior to Sampling 11.75

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	~~2 Volume~~	~~3 Volume~~/Sample	Downhole DO/ORP (final)
Time	0926	0941	1010	1310	
DTW (ft TOIC)	7.75	12.65		8.06	
pH (s.u)	7.25	7.39			
Conductivity (mS/cm)	1.20	1.47	dry (<2" of water in bailer) after		
Temperature (°C)	10.5	10.5	purging 11.75 gallons		
DO (mg/L)	4.04	4.44			7.58
ORP (mV)	99.9	95.6			70.7
Turbidity (NTU)	1.89	63.9			

Comments: Well was dry (<2" of water in bailer) after purging 11.75 gallons. Will return for samples after it recharges (later in the day on 4/6/16).

Sample ID(s): MW-1
Sample Time: 1310
Sampler(s): LL

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	3	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: YSI - FA01787, LaMotte - FA01399, waterlevel - FA00061, Pro ODO FA00008, YSI 1030 FA00007

Sample color: clear
Sample odor: none
Sample appearance: clear

Other comments:

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: MW-3

Depth to Water: 10.57 ft TOIC
Weather: ~20°F, overcast, mild wind
Date: 4/6/16

Total Well Depth: 15.02 ft TOIC
Time elapsed for one volume: 4-7min
Purge Start Time: 0925

Depth to Pump: — ft TOIC
ORP/DO Method: downhole
Purge End Time: 0943

Initial Pump Rate: — mL/min
Evacuation Method: bailer

adjusted to: — mL/min at — minutes
Well Diameter: 2 inches

adjusted to: — mL/min at — minutes
Well Volume: 0.73 gallons

Purge Data

Water column in well 4.45 ft
Gallons in well 0.73 gal
Gal. Purged Prior to Sampling ~2.5 gal

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	0925	0932	0936	0943	
DTW (ft TOIC)	1057	11.72	12.20	13.15	
pH (s.u)	7.50	7.35	7.40	7.52	
Conductivity (mS/cm)	1.01	3.54	3.97	3.38	
Temperature (°C)	7.5	7.9	8.1	8.01	
DO (mg/L)	8.55	3.10	2.08	3.86	3.57
ORP (mV)	189.3	194.8	190.9	186.4	104.0
Turbidity (NTU)	3.68	7.81	11.6	17.4	

Comments:

Sample ID(s): MW-3 / MW-3-S/D
Sample Time: 0950 / 09:55

Sampler(s): L. Best

Equipment: Heron FA01270 Lamotte FA02066 YSI FA00003 Downhole DO Pro DO FA00008 Downhole ORP YSI 1030 FA00007

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	6	HCl	☒	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Sample color: ~~pale brown to~~ no color (LB)
Sample odor: none
Sample appearance: ~~slightly cloudy to~~ clear w/ few dark suspended particles (LB)

Other comments:

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: MW-18

Depth to Water: 2.97 ft TOIC
Weather: 30s, overcast, moderate wind
Date: 4/6/16

Total Well Depth: 14.47 ft TOIC
Time elapsed for one volume: ~5-8 min
Purge Start Time: 13:15

Depth to Pump: — ft TOIC
ORP/DO Method: downhole
Purge End Time: 13:35

Initial Pump Rate: — mL/min
Evacuation Method: bailer

adjusted to: — mL/min at — minutes
Well Diameter: 2 inches

adjusted to: — mL/min at — minutes
Well Volume: 1.9 gallons

Purge Data

Water column in well 11.5 ft
Gallons in well 1.9 gal
Gal. Purged Prior to Sampling 6 gal

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	13:15	13:20	1327	13:35	
DTW (ft TOIC)	2.97	6.29	9.34	11.22	
pH (s.u)	7.60	7.65	7.55	7.54	
Conductivity (mS/cm)	0.695	0.77	0.746	0.389	
Temperature (°C)	6.3	6.8	7.1	7.4	
DO (mg/L)	3.13	2.30	2.18	2.78	0.70
ORP (mV)	92.5	-40.9	-17.8	4.6	-2.0
Turbidity (NTU)	39.6	91.4	40	100	

Comments:

Sample ID(s): MW-18
Sample Time: 13:50

Sampler(s): L. Best

Equipment: Heron FA01270, Lamotte FA020616, YSI Quatro FA00003, ProDO FA00008, YSI1030 FA00007

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	9	HCl	☐	☒
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Sample color: light gray
Sample odor: slight sulfur
Sample appearance: cloudy

Other comments:

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: MW-20

Depth to Water: 2.00 ft TOIC
Weather: 30s, overcast, slight snow, moderate wind
Date: 4/6/16

Total Well Depth: 14.20 ft TOIC
Time elapsed for one volume: ~ 7-9 min
Purge Start Time: 14:35

Depth to Pump: — ft TOIC
ORP/DO Method: downhole
Purge End Time: 14:58

Initial Pump Rate: — mL/min
Evacuation Method: bailer

adjusted to: — mL/min at — minutes
Well Diameter: 2 inches

adjusted to: — mL/min at — minutes
Well Volume: 2.0 gallons

Purge Data

Water column in well 12.2 ft
Gallons in well 2.0 gal
Gal. Purged Prior to Sampling 6 gal

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	14:35	14:42	14:51	14:58	
DTW (ft TOIC)	2.00	3.37	4.73	5.18	
pH (s.u)	7.13	7.19	7.21	7.20	
Conductivity (mS/cm)	8.68	7.96	8.99	9.05	
Temperature (°C)	8.6	8.2	8.5	8.5	
DO (mg/L)	2.19	2.10	2.30	2.09	0.70
ORP (mV)	-90.6	-93.1	-89.2	-87.2	-78.5
Turbidity (NTU)	22.9	23	37	41	

Comments:

Sample ID(s): MW-20
Sample Time: 14:55
Sampler(s): L. Best

Equipment: Heim FA01270, Lamotte FA02066, YSI ProQuatro FA00003, YSI 1030 FA00007, ProDO FA00008

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	3	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Sample color: pale yellow
Sample odor: none
Sample appearance: slightly cloudy

Other comments:

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: MW-21
Depth to Water: 2.92 ft TOIC
Weather: 30s, overcast
Date: 4/6/16
Total Well Depth: 14.34 ft TOIC
Time elapsed for one volume: ~4-6 min
Purge Start Time: 16:02
Depth to Pump: —— ft TOIC
ORP DO Method: downhole
Purge End Time: 16:16
Initial Pump Rate: —— mL/min
Evacuation Method: Bailer
adjusted to: —— mL/min at —— minutes
Well Diameter: 2 inches
adjusted to: —— mL/min at —— minutes
Well Volume: 1.9 gallons

Purge Data

Water column in well 11.42
Gallons in well 1.9
Gal. Purged Prior to Sampling 6

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	16:02	16:06	16:12	16:16	
DTW (ft TOIC)	2.92	6.91	(LB) ~~7.47~~ 7.47	7.52	
pH (s.u)	8.12	8.03	8.19	8.06	
Conductivity (mS/cm)	2.33	2.50	2.53	2.81	
Temperature (°C)	7.5	8.1	8.4	8.3	
DO (mg/L)	2.12	2.54	3.00	2.32	0.62
ORP (mV)	-70.2	-102.8	-123.4	-112.9	-162.6
Turbidity (NTU)	10.75	2599 AU	2714 AU	overrange	

Comments:

Sample ID(s): MW-21
Sample Time: 16:25
Sampler(s): L. Best, L. Lyons

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	3	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: Heron FA01270 downhole DO FA0008 Lamotte FA02066 downhole ORP YSI 1030 YSI FA00003 FA00007

Sample color: grayish-brown
Sample odor: none
Sample appearance: turbid

Other comments: observed sheen in bucket

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: PZ-5

Depth to Water: ~~9.42~~ 8.98 ft TOIC (LB)
Weather: indoors
Date: 4/6/16 - 4/7/16

Total Well Depth: ~~9.76~~ 10.77 ft TOIC (LB)
Time elapsed for one volume: —
Purge Start Time: —

Depth to Pump: — ft TOIC
DO Method: N/A
Purge End Time: —

Initial Pump Rate: — mL/min
Evacuation Method: bailer

adjusted to: — mL/min at — minutes
Well Diameter: 1.25 inches

adjusted to: — mL/min at — minutes
Well Volume: 0.11 ~~0.02~~ (LB) gallons

Purge Data

Water column in well (LB) 4/6/16 ~~0.34 ft~~ 1.79 ft

Gallons in well 0.11 ~~0.02~~ (LB) ≈ ~~83~~ (LB) 416 mL

Gal. Purged Prior to Sampling N/A

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample
Time				
DTW (ft TOIC)				
pH (s.u)				
Conductivity (mS/cm)				
Temperature (°C)				
DO (mg/L)				
ORP (mV)				
Turbidity (NTU)				

Downhole DO/ORP (final)

insufficient vol for ~~sample~~ parameter collection (well dry after VOA collection)

Comments: 4/6/16 @ 0845 collected 3x 40mL vials - then purged dry (~1 bailer) - pale yellow, clear, no odor (in case well does not recharge)

WL=10.39 on 4/7/16 @ 08 20 - could only collect 1 VOA - will submit @ 0825

Sample ID(s): PZ-5

Sample Time: 08 25 4/7/16

Sampler(s): L. Best, L. Lyons

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	1	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: FA01270 Heron WLM

Sample color: pale gray to colorless
Sample odor: none
Sample appearance: clear

Other comments:

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: PZ-6

Depth to Water: 9.26 ft TOIC
Weather: indoors
Date: 4/6/16 - 4/7/16

Total Well Depth: 10.40 ft TOIC
Time elapsed for one volume: —
Purge Start Time: —

Depth to Pump: — ft TOIC
DO Method: N/A
Purge End Time: —

Initial Pump Rate: — mL/min
Evacuation Method: bailer

adjusted to: — mL/min at — minutes
Well Diameter: 1.25 inches

adjusted to: — mL/min at — minutes
Well Volume: 0.07 gallons

Purge Data

4/6/16

Water column in well 1.14 ft

Gallons in well 0.07 ≈ 276mL

Gal. Purged Prior to Sampling N/A

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time					
DTW (ft TOIC)					
pH (s.u)					
Conductivity (mS/cm)					
Temperature (°C)					
DO (mg/L)					
ORP (mV)					
Turbidity (NTU)					

insufficient volume for parameter collection (well dry after sample collection)

Comments: collected 3x40mL VOAs on 4/6/16 @ 0830 - well dry - pale brown, slightly cloudy, no odor
(in case well does not recharge)

4/7/16 08:30: WL = 10.02 - collected 1 VOA @ 08:35 - will submit

Sample ID(s): PZ-6

Sample Time: 0835 4/7/16

Sampler(s): L. Best, L. Lyons

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	1	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: FA01270 Heron WLM

Sample color: light brown

Sample odor: none

Sample appearance: cloudy

Other comments:

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Stantec
61 Commercial Street
Rochester, NY 14614
(585) 475-1440

Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: PZ-8

Depth to Water: ~~8.98~~ 9.42 ft TOIC
Weather: indoors
Date: 4/6/16 - 4/7/16

Total Well Depth: ~~10.77~~ 9.76 ft TOIC
Time elapsed for one volume: —
Purge Start Time: —

Depth to Pump: — ft TOIC
DO Method: N/A
Purge End Time: —

Initial Pump Rate: — mL/min
Evacuation Method: bailer

adjusted to: — mL/min at — minutes
Well Diameter: 1.25 inches

adjusted to: — mL/min at — minutes
Well Volume: ~~0.11~~ 0.02 gallons

Purge Data

Water column in well ~~1.79 ft~~ 4/6/15 0.34 ft
Gallons in well ~~0.11~~ 0.02 ≈ ~~416 mL~~ 83

Gal. Purged Prior to Sampling N/A

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time					
DTW (ft TOIC)					
pH (s.u)					
Conductivity (mS/cm)					
Temperature (°C)					
DO (mg/L)					
ORP (mV)					
Turbidity (NTU)					

not enough water to collect params (dry after VOA collection)

Comments: collected 1-40mL vial @ 0815 on 4/6/16 - well is dry - light brown, cloudy, no odor (in case well does not recharge)
on 4/7/16 @ 0810 - WL had returned to static - collected 1 VOA @ 0815 on 4/7/16 (primary sample)

Sample ID(s): PZ-8
Sample Time: 0815 on 4/7/16
Sampler(s): L. Best, L. Lyons

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	1	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: Heron WLM FA01270

Sample color: light brown
Sample odor: none
Sample appearance: cloudy

Other comments:

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: PZ-11R

Depth to Water: 8.36 ft TOIC
Weather: 40s, overcast, mild wind
Date: 4/7/16

Total Well Depth: 9.90 ft TOIC
Time elapsed for one volume: N/A
Purge Start Time: 0857

Depth to Pump: — ft TOIC
DO Method: N/A
Purge End Time: 0900

Initial Pump Rate: — mL/min
Evacuation Method: bailer

adjusted to: — mL/min at — minutes
Well Diameter: 1 inches

adjusted to: — mL/min at — minutes
Well Volume: 0.063 gallons

Purge Data

Water column in well 1.54 ft
Gallons in well 0.063 gal ≈ 238 mL
Gal. Purged Prior to Sampling

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	0857			10:00	
DTW (ft TOIC)	8.36			8.34	
pH (s.u)	7.50				
Conductivity (mS/cm)	7.94				
Temperature (°C)	9.0				
DO (mg/L)	2.64				—
ORP (mV)	111.2				—
Turbidity (NTU)	95				

dry after ~200 mL

insufficient vol for parameter collection

Comments: dry after ~200 mL purge - will allow recharge prior to sampling

Sample ID(s): PZ-11R
Sample Time: 10:00
Sampler(s): L. Best, L. Lyons

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	3	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: YSI Quatro FA00005, Lamotte FA02066, Heron WLM FA01270

Sample color: lt brown
Sample odor: none
Sample appearance: cloudy

Other comments:

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: PZ-13R

Depth to Water: 7.98 ft TOIC
Weather: 40s, overcast, mild wind
Date: 4/7/16

Total Well Depth: 9.89 ft TOIC
Time elapsed for one volume: N/A
Purge Start Time: 0905

Depth to Pump: — ft TOIC
DO Method: N/A
Purge End Time: 0910

Initial Pump Rate: — mL/min
Evacuation Method: bailer

adjusted to: — mL/min at — minutes
Well Diameter: 1 inches

adjusted to: — mL/min at — minutes
Well Volume: 0.078 gallons

Purge Data

Water column in well 1.91 ft
Gallons in well 0.078 gal ≈ 295 mL
Gal. Purged Prior to Sampling _____

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	09:05			10:15	
DTW (ft TOIC)	7.98			8.05	
pH (s.u)	7.24				
Conductivity (mS/cm)	16.01				
Temperature (°C)	8.6				
DO (mg/L)	3.16				—
ORP (mV)	138.9				—
Turbidity (NTU)	48.2				

dry after purging ~290 mL

insufficient volume for parameter collection

Comments: dry after ~290 mL purge - let well recharge then sample

Sample ID(s): PZ-13R
Sample Time: 1015
Sampler(s): L. Best, L. Lyons

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	3	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: Lamotte FA02066, Horm WLM FA01270, YSI ProQuatro FA00003

Sample color: light grey
Sample odor: none
Sample appearance: slightly cloudy

Other comments: _____

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: A1-PZ-2

Depth to Water: 1.44 ft TOIC
Weather: 30s, overcast, snowy
Date: 4/6/16

Total Well Depth: 11.59 ft TOIC
Time elapsed for one volume: ~5-9 minutes
Purge Start Time: 14:30

Depth to Pump: — ft TOIC
DO Method: YSI
Purge End Time: 14:52

Initial Pump Rate: — mL/min
Evacuation Method: Bailer

adjusted to: — mL/min at — minutes
Well Diameter: 1 inches

adjusted to: — mL/min at — minutes
Well Volume: 0.42 gallons

Purge Data

Water column in well 10.15
Gallons in well 0.42
Gal. Purged Prior to Sampling 1.25

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	1430	1439	1444	1452	
DTW (ft TOIC)	1.44	4.26	7.43	10.12	
pH (s.u)	8.19	7.97	7.92	8.04	
Conductivity (mS/cm)	0.546	0.560	0.592	0.542	
Temperature (°C)	8.0	8.4	8.1	8.6	
DO (mg/L)	1.41	0.80	1.12	1.47	
ORP (mV)	36.3	-98.8	-102.3	-72.8	
Turbidity (NTU)	1707 AU	overrange	overrange	overrange	

downhole probes do not fit down well opening

Comments:

Sample ID(s): A1-PZ-2
Sample Time: 15:10
Sampler(s): LL

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	3	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: YSI - FA01787, LaMotte - FA01399, water level meter - FA000061

Sample color: Brown
Sample odor: none
Sample appearance: turbid

Other comments:

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: A2-PZ-1

Depth to Water: 3.94 ft TOIC
Weather: 20s-30s°F, moderate wind, partly sunny
Date: 4/6/16

Total Well Depth: 14.35 ft TOIC
Time elapsed for one volume: ~10 min
Purge Start Time: 10:45

Depth to Pump: — ft TOIC
ORP/DO Method: downhole
Purge End Time: 11:15

Initial Pump Rate: — mL/min
Evacuation Method: bailer

adjusted to: — mL/min at — minutes
Well Diameter: 1 inches

adjusted to: — mL/min at — minutes
Well Volume: 0.43 gallons

Purge Data

Water column in well 10.41 ft
Gallons in well 0.43 gal
Gal. Purged Prior to Sampling ~1.3 gal

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	3.94	10:55	11:05	11:15	
DTW (ft TOIC)	10:45	5.94	6.24	7.20	
pH (s.u)	7.76	7.54	7.53	7.60	
Conductivity (mS/cm)	0.653	0.88	0.85	0.97	
Temperature (°C)	5.2	5.2	5.4	5.8	
DO (mg/L)	3.65	3.49	3.03	5.04	0.30
ORP (mV)	153.3	-61.2	-54.6	-67.9	-86.2
Turbidity (NTU)	688 AU	3869 AU	overrange	overrange	

Comments:

Sample ID(s): A2-PZ-1
Sample Time: 11:25
Sampler(s): L. Best

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☑ VOCs	3	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: Heron FA01270, Lamotte FA02066, YSI FA00003, ProDO FA00008, YSI 1030 FA00007

Sample color: brown
Sample odor: cleaning product smell
Sample appearance: turbid

Other comments:

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: A2-PZ-2

Depth to Water: 6.65 ft TOIC
Weather: 30s, overcast
Date: 4/6/16

Total Well Depth: 14.77 ft TOIC
Time elapsed for one volume: ~ 10 minutes
Purge Start Time: 10:45

Depth to Pump: — ft TOIC
DO Method: downhole
Purge End Time: 11:19

Initial Pump Rate: — mL/min
Evacuation Method: Bailer

adjusted to: — mL/min at — minutes
Well Diameter: 1 inches

adjusted to: — mL/min at — minutes
Well Volume: 0.33 gallons

Purge Data

Water column in well 8.12
Gallons in well 0.33
Gal. Purged Prior to Sampling 1.0

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	10:45	10:53	11:04	11:19	
DTW (ft TOIC)	6.65	7.46	11.08	13.00	
pH (s.u)	7.53	7.33	7.51	7.63	
Conductivity (mS/cm)	0.96	0.98	1.10	1.21	
Temperature (°C)	6.4	6.8	7.2	7.2	
DO (mg/L)	3.90	4.34	6.31	6.81	4.16
ORP (mV)	107.8	99.8	-23.1	2.9	26.6
Turbidity (NTU)	19.2	overrange	overrange	overrange	

Comments:

Sample ID(s): A2-PZ-2
Sample Time: 11:30
Sampler(s): LL

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	3	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: YSI - FA01787, LaMotte - FA01399, ~~water level~~ - FA00061, ProODO FA00008, YSI 1030 FA00007

Sample color: brown
Sample odor: none
Sample appearance: turbid

Other comments:

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: MW-1

Depth to Water: 8.23 ft TOIC
Weather: Sunny, 80's
Date: 7-12-16

Total Well Depth: 17.3 ft TOIC
Time elapsed for one volume: ~15 min
Purge Start Time: 13:55

Depth to Pump: — ft TOIC
DO Method: downhole
Purge End Time: 14:30

Initial Pump Rate: — mL/min
Evacuation Method: bailer

adjusted to: — mL/min at — minutes
Well Diameter: 4 inches

adjusted to: — mL/min at — minutes
Well Volume: ~5.3 gallons

Purge Data

Water column in well: ~~8.07~~ RK 8.07
Gallons in well: 5.27
Gal. Purged Prior to Sampling: ~12

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	13:57	14:15	14:30	15:05	
DTW (ft TOIC)	8.23	11.63	16.19	14.96	
pH (s.u)	7.32	7.25	7.51	7.55	
Conductivity (mS/cm)	0.99	1.81	2.13	1.62	
Temperature (°C)	19.0	17.4	18.3	20.9	
DO (mg/L)	2.43	2.20	3.92	7.82	4.43
ORP (mV)	137.5	150.4	107.1	158.0	212.5
Turbidity (NTU)	14.5	11.9	45.4	12.4	

Comments: dry @ 1440 after purging ~12 gal
allowed recharge, sampled after WL check, then took params

Sample ID(s): MW-1
Sample Time: 15:10

Sampler(s): L. Best, R. Kreuzer

Equipment: Heron WLM FA01455, Lamotte FA01400, ProDO YSI, DH ORP: YSI quatro sensor & FA01078 w/YSI 1030 approximates FA00007

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	3	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Sample color: clear
Sample odor: no odor
Sample appearance: slightly cloudy

Other comments:

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: MW-3

Depth to Water: 11.89 ft TOIC
Weather: 80s, sunny
Date: 7/12/16

Total Well Depth: 15.0 ft TOIC
Time elapsed for one volume: ~3min
Purge Start Time: 1445

Depth to Pump: — ft TOIC
DO Method: downhole
Purge End Time: 14:54

Initial Pump Rate: — mL/min
Evacuation Method: bailer

adjusted to: — mL/min at _____ minutes
Well Diameter: 2 inches

adjusted to: — mL/min at _____ minutes
Well Volume: 0.5 gallons

Purge Data

Water column in well 3.11 ft
Gallons in well 0.5 gal
Gal. Purged Prior to Sampling _____

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	14:45	14:48	14:51	14:54	
DTW (ft TOIC)	11.89	11.84	12.30	13.34	
pH (s.u)	7.70	7.50	7.69	7.48	
Conductivity (mS/cm)	1.78	1.24	2.09	2.06	
Temperature (°C)	17.4	17.9	16.8	16.0	
DO (mg/L)	2.50	2.41	2.87	1.85	1.75
ORP (mV)	125.5	138.8	136.8	133.0	220.9
Turbidity (NTU)	12.06	17.1	30.8	14.8	

Comments:

Sample ID(s): MW-3
Sample Time: 15:00
Sampler(s): L. Best, R. Kreuzer

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	3	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: same as MW-1
Sample color: clear
Sample odor: none
Sample appearance:

Other comments:

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY

Well ID: MW-18

Depth to Water: 3.30 ft TOIC

Weather: 80's Sunny

Date: 7-13-16

Total Well Depth: 14.5 ft TOIC

Time elapsed for one volume:

Purge Start Time: 9:15

Depth to Pump: — ft TOIC

DO Method:

Purge End Time: 9:29

Initial Pump Rate: — mL/min

Evacuation Method: bailer

adjusted to: — mL/min at ____ minutes

Well Diameter: 2 inches

adjusted to: — mL/min at ____ minutes

Well Volume: 1.83 gallons

Purge Data

Water column in well 11.2

Gallons in well 1.83

Gal. Purged Prior to Sampling 6.0

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	9:15	9:18	RX ~~9:20~~ 9:22	9:29	
DTW (ft TOIC)	3.30	8.02	10.52	12.45	
pH (s.u)	7.56	7.39	7.33	7.56	
Conductivity (mS/cm)	0.515	1.16	1.13	1.08	
Temperature (°C)	19.7°C	16.6	15.8	14.7	
DO (mg/L)	1.58	1.69	1.54	1.78	0.53
ORP (mV)	120.9	-34.0	-60.4	RX ~~-62~~ -65.9	90.7
Turbidity (NTU)	59.4	816 AU	28	overrange	

Comments:

Sample ID(s): MW-18

Sample Time: 9:31

Sampler(s): Laura Best / Renena Kreuzer

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	3	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: Same as AZ-DZ-1

Sample color: brown

Sample odor:

Sample appearance: turbid

Other comments:

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: MW-20

Depth to Water: 2.41 ft TOIC
Weather: 70's, sunny
Date: 7/12/16

Total Well Depth: 14.2 ft TOIC
Time elapsed for one volume: 3-6 min
Purge Start Time: 11:00

Depth to Pump: — ft TOIC
DO Method: downhole → ORP
Purge End Time: 11:15

Initial Pump Rate: — mL/min
Evacuation Method: bailer

adjusted to: — mL/min at _____ minutes
Well Diameter: 2 inches

adjusted to: — mL/min at _____ minutes
Well Volume: ~1.9 gallons

Purge Data

Water column in well 11.79 ft
Gallons in well 1.92 gal
Gal. Purged Prior to Sampling _____

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	11:00	11:06	11:09	11:14	
DTW (ft TOIC)	2.41	4.83	5.75	6.11	
pH (s.u)	~~7.5~~ 6.84	6.98	7.01	7.12	
Conductivity (mS/cm)	8.65	9.20	9.25	8.98	
Temperature (°C)	21.6	20.5	18.7	19.6	
DO (mg/L)	0.88	2.26	1.74	2.56	3.57 / 0.25
ORP (mV)	-74.5	~~-93.~~ -90.7	-91.7	-95.7	-80.2
Turbidity (NTU)	20.2	609 AU	888 AU	1335 AU	

pro ODO
quatro
Quatro

Comments:

Sample ID(s): MW-20 / MW-20-S/D
Sample Time: 11:30 / 11:35
Sampler(s): L. Best / R. Kreuzer

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	~~R~~ 6	HCl	☒	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment:
Sample color: light brown
Sample odor: none
Sample appearance: reactive in VOC bottles
slightly cloudy

Other comments:

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: MW-21

Depth to Water: 2.51 ft TOIC
Weather: 70s, sunny
Date: 7/12/16

Total Well Depth: 14.3 ft TOIC
Time elapsed for one volume: ~5 min
Purge Start Time: 09:05

Depth to Pump: — ft TOIC
DO Method: downhole
Purge End Time: 09:20

Initial Pump Rate: — mL/min
no ORP (LB)
Evacuation Method: bailer

adjusted to: — mL/min at ____ minutes
Well Diameter: 2 inches

adjusted to: — mL/min at ____ minutes
Well Volume: ~1.9 gallons

Purge Data

Water column in well 11.79 ft
Gallons in well 1.92 gal
Gal. Purged Prior to Sampling ~6 gal

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	0905	09:10	09:15	09:20	
DTW (ft TOIC)	2.51	4.85	5.20	4.65	
pH (s.u)	7.73	7.66	7.71	7.65	
Conductivity (mS/cm)	2.03	3.73	2.35	2.15	
Temperature (°C)	25.7	21.0	20.7	20.5	
DO (mg/L)	4.01	1.28	2.71	1.91	0.54
ORP (mV)	101.4	-103.7	-119.7	-112.5	N/A
Turbidity (NTU)	2.39	1264 AU	1403 AU	1535 AU	

used Quatro 58.7mV

YSI 1030 no longer has ORP capability

Comments:

Sample ID(s): MW-21 (MS/MSD)
Sample Time: 09:30
Sampler(s): L. Best, R. Kreuzer

Equipment: Hach WQM FA01455 YSI Quatro FA00373 Pro DO FA00008 Lamotte FA01400 YSI 1030 FA00007

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	9	HCl	☐	☒
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Sample color: lt brown
Sample odor: none
Sample appearance: slightly cloudy

Other comments:

315
520
657

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY

Well ID: A1-PZ-2

Depth to Water: 2.22 ft TOIC

Weather: 70's Sunny

Date: 7/12/16

Total Well Depth: 11.6 ft TOIC

Time elapsed for one volume:

Purge Start Time: 10:35

Depth to Pump: — ft TOIC

DO Method: YSI (sfc)

Purge End Time: 10:52

Initial Pump Rate: — mL/min

ORP

Evacuation Method: bailer

adjusted to: — mL/min at ____ minutes

Well Diameter: 1 inches

adjusted to: — mL/min at ____ minutes

Well Volume: 0.36 gallons

Purge Data

Water column in well 8.38 ft

Gallons in well 0.36 gallons

Gal. Purged Prior to Sampling ~1.2 gal

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	1035	1037	1044	1052	
DTW (ft TOIC)	2.22	5.85	8.15	10.85	
pH (s.u)	7.68	7.65	7.85	7.77	
Conductivity (mS/cm)	0.66	1.00	0.79	0.310	
Temperature (°C)	26.5	22.1	19.5	18.4	
DO (mg/L)	1.44	2.24	0.82	2.07	N/A
ORP (mV)	62.4	24.9	15.8	40.9	N/A
Turbidity (NTU)	1012AV	overrange	overrange	overrange	

downhole probes do not fit well opening

Comments:

Sample ID(s): A1-PZ-2

Sample Time: 11:45

Sampler(s): L. Best / R. Kreuzer

Equipment: Aeron WLM FA01455 YSI Quatro FA00373 Lamotte FA01400

Sample color: brown

Sample odor: none

Sample appearance: turbid, reacts w/ acid

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	3	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Other comments:

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: A2-PZ-1

Depth to Water: 4.27 ft TOIC
Weather: 70's sunny
Date: 7/13/16

Total Well Depth: 14.4 ft TOIC
Time elapsed for one volume: ~5-9 min
Purge Start Time: 08:08

Depth to Pump: — ft TOIC
DO Method: downhole
Purge End Time: 8:29

Initial Pump Rate: — mL/min
ORP
Evacuation Method: bailer

adjusted to: — mL/min at _____ minutes
Well Diameter: 1 inches

adjusted to: _____ mL/min at _____ minutes
Well Volume: 0.4 gallons

Purge Data

Water column in well 10.13 ft
Gallons in well 0.42 gallons
Gal. Purged Prior to Sampling 1.3

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	8:08	8:17	8:22	8:29	
DTW (ft TOIC)	4.27	5.93	6.60	8.01	
pH (s.u)	6.75	7.02	7.17	7.45	
Conductivity (mS/cm)	0.539	0.97	0.427	1.07	
Temperature (°C)	19.1	17.7	17.2	16.3	
DO (mg/L)	6.69	2.16	3.11	4.68	0.43
ORP (mV)	46.9	-32.4	-23.7	-34.9	203.5
Turbidity (NTU)	80NTU	3189 AU	overrange	overrange	

Comments:

Sample ID(s): A2-PZ-1
Sample Time: 0835

Sampler(s): L. Best, R. Kreuzer

Equipment: Lamotte FA01410 YSI Quatro FA00373 FA01455 Horiba FA00006 Pro ODO
pH ORP: YSI Quatro probe ( ) w/YSI 1030 apparatus (FA00007)

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	3	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Sample color: lt brown
Sample odor: none
Sample appearance: slightly cloudy

Other comments:

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: A2-PZ-2

Depth to Water: 6.60 ft TOIC
Weather: 70's Sunny
Date: 7-13-16

Total Well Depth: 14.8 ft TOIC
Time elapsed for one volume: ~10min
Purge Start Time: 08:50

Depth to Pump: — ft TOIC
DO Method: downhole
Purge End Time: 09:05

Initial Pump Rate: — mL/min
Evacuation Method: bailer

adjusted to: — mL/min at _____ minutes
Well Diameter: 1 inches

adjusted to: — mL/min at _____ minutes
Well Volume: 0.3 gallons

Purge Data

Water column in well 8.2 ft
Gallons in well 0.336
Gal. Purged Prior to Sampling ~0.7

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	8:50	09:00		9:47	
DTW (ft TOIC)	6.60	14.35		7.40	
pH (s.u)	7.20			7.59	
Conductivity (mS/cm)	0.430	1.13		1.54	
Temperature (°C)	18.7	14.6		17.9	
DO (mg/L)	5.74	2.88		~~17~~ 8.53	1.49
ORP (mV)	137.8	-26.7		27.2	84.5
Turbidity (NTU)	2419 AV	overrange		911 AV	

Comments: dry @ 09:05 after purging ~0.7 gal

Sample ID(s): A2-PZ-2
Sample Time: 0950
Sampler(s): L. Best, R. Kreuzer

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	3	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: same as A2-PZ-1
Sample color: lgt grayish-brown
Sample odor: n/a
Sample appearance: cloudy

Other comments:

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TRIP BLANK (3x)
7/11/16 16:00

Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY

Well ID: PZ-5

Depth to Water: 9.54 ft TOIC

Weather: indoors

Date: 7/11/16 - 7/12/16

Total Well Depth: 10.67 ft TOIC

Time elapsed for one volume: —

Purge Start Time: —

Depth to Pump: — ft TOIC

DO Method:

Purge End Time: —

Initial Pump Rate: — mL/min

Evacuation Method: bailer

adjusted to: — mL/min at ____ minutes

Well Diameter: 1.25 inches

adjusted to: — mL/min at ____ minutes

Well Volume: 0.072 gallons

Purge Data

Water column in well 1.13 ft

Gallons in well 0.072 gal ≈ 273 mL

Gal. Purged Prior to Sampling

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time					
DTW (ft TOIC)					
pH (s.u)					
Conductivity (mS/cm)					
Temperature (°C)					
DO (mg/L)					
ORP (mV)					
Turbidity (NTU)					

insufficient volume for sample parameter collection

Comments: WL @ 16:00 on 7/11/16 : 9.54 ft ; collected 3x 40 mL VOAs in case well does not recharge (16:15, clear w/ white coarse suspended particles, no odor ; dry) ; WL @ 15:45 on 7/12/16 = 10.46 ft - will submit samples from 7/11/16

Sample ID(s): PZ-5 JB

Sample Time: 16:15 ~~16:00~~ (7/11/16)

Sampler(s): L. Best / R. Kreuzer

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☑ VOCs	3	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: Heron WLM FA01455

Sample color: Clear

Sample odor: none

Sample appearance: white coarse suspended particles

Other comments:

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: PZ-8

Depth to Water: 9.42 ft TOIC
Weather: indoors
Date: 7/11/16 - 7/12/16

Total Well Depth: 9.78 ft TOIC
Time elapsed for one volume: —
Purge Start Time: —

Depth to Pump: — ft TOIC
DO Method: —
Purge End Time: —

Initial Pump Rate: — mL/min
Evacuation Method: bailer

adjusted to: — mL/min at _____ minutes
Well Diameter: 1.25 inches

adjusted to: — mL/min at _____ minutes
Well Volume: 0.023 gallons

Purge Data

Water column in well 0.36 ft
Gallons in well 0.023 gal ≅ 87 mL
Gal. Purged Prior to Sampling _____

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample
Time				
DTW (ft TOIC)	9.51			
pH (s.u)				
Conductivity (mS/cm)				
Temperature (°C)				
DO (mg/L)				
ORP (mV)				
Turbidity (NTU)				

unable to sample or collect params (insufficient water vol)

Downhole DO/ORP (final)

Comments: WL @ 15:50 = 9.42; not enough water to collect sample (7/11/16) (nearly filled 1x40mL vial); WL @ 15:40 on 7/12/16 = 9.51 ft - could not collect add'l VOAs (will ~~submit~~ (B) not be able to submit sample)

Sample ID(s): PZ-8
Sample Time: N/A
Sampler(s): L. Best / R. Kreuzer

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	0		☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: Heron WLM FA01455

Sample color: _____
Sample odor: _____
Sample appearance: _____

Other comments: _____

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY

Well ID: PZ-11R

Depth to Water: 8.64 ft TOIC

Weather: 70s, sunny

Date: 7/12/16

Total Well Depth: 9.9 ft TOIC

Time elapsed for one volume: N/A

Purge Start Time: —

Depth to Pump: — ft TOIC

DO Method: N/A

Purge End Time: —

Initial Pump Rate: — mL/min

Evacuation Method: bailer

adjusted to: — mL/min at — minutes

Well Diameter: 1 inches

adjusted to: — mL/min at — minutes

Well Volume: 0.05 gallons

Purge Data

Water column in well 1.26 ft

Gallons in well 0.05 gal ~ 189 mL

Gal. Purged Prior to Sampling ~ 175 mL

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	0800				
DTW (ft TOIC)	8.64				
pH (s.u)	6.77				
Conductivity (mS/cm)	7.15		insufficient volume for parameters		
Temperature (°C)	18.3				
DO (mg/L)	3.88				
ORP (mV)	161.3				
Turbidity (NTU)	73.5				

Comments: dry @ 0807 after purging ~175 mL (7/12/16)
WL = 8.69' @ 13:10 (7/12/16) –

Sample ID(s): PZ-11R

Sample Time: 13:15

Sampler(s): L. Best, P. Kreuzer

Equipment: Lamotte FA0140 WL-1 Heron FA0145 YSI Quatro FA0373

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	3	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Sample color: lt brown

Sample odor: none

Sample appearance: cloudy

Other comments:

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY

Well ID: PZ-13R

Depth to Water: 8.15 ft TOIC

Weather: 70s, sunny

Date: 7/12/16

Total Well Depth: 9.9 ft TOIC

Time elapsed for one volume: N/A

Purge Start Time: —

Depth to Pump: — ft TOIC

DO Method: N/A

Purge End Time: —

Initial Pump Rate: — mL/min

Evacuation Method: bailer

adjusted to: — mL/min at — minutes

Well Diameter: 1 inches

adjusted to: — mL/min at — minutes

Well Volume: 0.07 gallons

Purge Data

Water column in well 1.75 ft

Gallons in well 0.07 gal ≅ 265 mL

Gal. Purged Prior to Sampling ~215 mL

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	0815				
DTW (ft TOIC)	8.15				
pH (s.u)	7.04				
Conductivity (mS/cm)	10.09				
Temperature (°C)	19.1				
DO (mg/L)	1.37				
ORP (mV)	118.3				
Turbidity (NTU)	11.3				

insufficient volume for parameter correction

Comments: dry @ 0820 after purging ~215 mL (7/12/16
RK forgot to take water level well depth measurement prior to sampling. After filling first two VOA vials, well depth was measured and observed to be 8.95 ft

Sample ID(s): PZ-13R

Sample Time: 13:35

Sampler(s): L. Best, K. Kreuzer

Equipment: Lamotte FA01400 WLM Heron FA01455 YSI Quatro FA00373

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	3	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Sample color: Light brown

Sample odor: no odor

Sample appearance: Cloudy

Other comments:

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: MW-1

Depth to Water: 8.92 ft TOIC
Weather: ~50-60, sunny
Date: 10/10/16

Total Well Depth: 17.3 ft TOIC
Time elapsed for one volume: ____
Purge Start Time: 14:30

Depth to Pump: — ft TOIC
DO Method: ____
Purge End Time: ~15:00

Initial Pump Rate: — mL/min
Evacuation Method: bailer

adjusted to: — mL/min at — minutes
Well Diameter: 4 inches

adjusted to: — mL/min at — minutes
Well Volume: 5.5 gallons

Purge Data

Water column in well 8.38
Gallons in well 5.5
Gal. Purged Prior to Sampling 10.5

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	14:30	14:40	14:57	16:40	
DTW (ft TOIC)	8.92	12.63	16.70	13.92	
pH (s.u)	6.69	7.03	7.36	7.46	
Conductivity (mS/cm)	0.69	1.13	1.58	1.23	
Temperature (°C)	17.6	17.2	15.6	15.8	
DO (mg/L)	1.30	1.77	3.37	5.66	~~0.26~~ 6.08
ORP (mV)	197.4	210.9	215.2	21.5	3
Turbidity (NTU)	1.47	7.52	84.1	-0.6	

Comments: dry @ 15:00 after purging 10.5 gal; @ 1645, well had rech. collected 6 VOAs

Sample ID(s): MW-1 / MW-1-S/D
Sample Time: 1645 / 1650

Sampler(s): L. Best, R. Kreuzer

Equipment: ① LaMotte FA01463 ② YSI quatro FA00571 ③ Hach Odo 20M FA00008 ④ YSI downhole FA00006

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☑ VOCs	6	HCl	☑	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Sample color: clear
Sample odor: none
Sample appearance: slightly cloudy

Other comments:

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY

Well ID: MW-2

Depth to Water: 6.25 ft TOIC

Weather: 50s, sunny

Date: 10/10/16

Total Well Depth: 16.2 ft TOIC

Time elapsed for one volume:

Purge Start Time: 16:15

Depth to Pump: — ft TOIC

DO/ORP Method: DH

Purge End Time: 16:46

Initial Pump Rate: — mL/min

Evacuation Method: bailer

adjusted to: — mL/min at — minutes

Well Diameter: 4 inches

adjusted to: — mL/min at — minutes

Well Volume: 6.5 gallons

Purge Data

Water column in well 9.95 ft

Gallons in well 6.5 gal

Gal. Purged Prior to Sampling ~~20.16~~ 19.5

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	16:15	16:28	16:39	16:46	
DTW (ft TOIC)	6.25	6.35	6.63	6.60	
pH (s.u)	7.56	7.55	7.51	7.49	
Conductivity (mS/cm)	1.90	2.36	2.37	2.34	
Temperature (°C)	17.4	17.1	16.7	17.0	
DO (mg/L)	0.97	1.95	1.14	1.72	0.25
ORP (mV)	-29.0	-81.0	-89.9	-96.4	-147
Turbidity (NTU)	22.6	44.3	25.4	21.4	

Comments:

Sample ID(s): MW-2 (MS/MSD)

Sample Time: 1650

Sampler(s): L. Best

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	9	HCl	☐	☒
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: Same as MW-1

Sample color: pale yellow

Sample odor: none

Sample appearance: cloudy

Other comments:

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: MW-3

Depth to Water: 11.52 ft TOIC
Weather: Sunny / cool
Date: 10/10/16

Total Well Depth: 15.0 ft TOIC
Time elapsed for one volume:
Purge Start Time: 15:08

Depth to Pump: ~~15~~ ft TOIC
DO Method:
Purge End Time: 15:18

Initial Pump Rate: mL/min
Evacuation Method: bailer

adjusted to: mL/min at minutes
Well Diameter: 2 inches

adjusted to: mL/min at minutes
Well Volume: 0.6 gallons

Purge Data

Water column in well 3.48 ft
Gallons in well 0.6 gal
Gal. Purged Prior to Sampling 2 gal

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	15:05	15:12	15:15	15:18	
DTW (ft TOIC)	11.52	13.02	13.49	14.20	
pH (s.u)	7.41	7.32	7.30	7.37	
Conductivity (mS/cm)	0.97	1.12	1.12	1.13	
Temperature (°C)	16.6	17.0	17.1	16.6	
DO (mg/L)	1.41	~~3.~~ 2.35	1.82	2.60	5.71
ORP (mV)	206.8	194.2	175.1	182.2	~~79.0~~
Turbidity (NTU)	11.8	23.7	56.5	67	80

Comments:

Sample ID(s): MW-3
Sample Time: 15:20
Sampler(s): R. Kreuzer & L. Best

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	3	HCL	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: Same as MW-1
Sample color: light brown
Sample odor: none
Sample appearance: turbid

Other comments:

U:\190500800\03_data\field\2-SAMPLING\GW\2016\Q1\Prep\Well Purge Form_BLANK.xls

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: MW-4

Depth to Water: 11.63 ft TOIC
Weather: Sunny/clear/cool
Date: 10.10.16

Total Well Depth: 14.6 ft TOIC
Time elapsed for one volume: 3.4 min
Purge Start Time: 1543

Depth to Pump: — ft TOIC
DO/ORP Method: downhole
Purge End Time: 15:54

Initial Pump Rate: — mL/min
Evacuation Method: bailer

adjusted to: — mL/min at — minutes
Well Diameter: 2 inches

adjusted to: — mL/min at — minutes
Well Volume: 0.5 gallons

Purge Data

Water column in well 2.97 ft
Gallons in well 0.5 gal
Gal. Purged Prior to Sampling 1.5 gal

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	1543	15.46	15:49	15:54	
DTW (ft TOIC)	11.63	12.51	13.35	13.80	
pH (s.u)	7.78	7.24	7.29	3.36	
Conductivity (mS/cm)	2.82	2.88	2.73	2.90	
Temperature (°C)	17.0	17.0	17.0	16.9	
DO (mg/L)	1.55	1.71	1.89	1.66	1.54
ORP (mV)	165.2	-24.3	-61.5	-72.7	-147
Turbidity (NTU)	25.0	42.5	43.3	91.5	

Comments:

Sample ID(s): MW-4
Sample Time: 16:00
Sampler(s): L. Best

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	3	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: same as MW-1
Sample color: lt brown
Sample odor: none
Sample appearance: slightly cloudy w/ fine red-brn particles

Other comments:

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: MW-10

Depth to Water: 5.77 ft TOIC
Weather: 30s, sunny
Date: 10/11/16

Total Well Depth: 12.7 ft TOIC
Time elapsed for one volume: 3-4 min
Purge Start Time: 08:37

Depth to Pump: — ft TOIC
DO/ORP Method: downhole
Purge End Time: 08:47

Initial Pump Rate: — mL/min
Evacuation Method: bailer

adjusted to: — mL/min at — minutes
Well Diameter: 2 inches

adjusted to: — mL/min at — minutes
Well Volume: 1.1 gallons

Purge Data

Water column in well 6.93 ft
Gallons in well 1.1 gal
Gal. Purged Prior to Sampling

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	0837	0840	0844	08:47	
DTW (ft TOIC)	5.77	5.89	5.84	5.94	
pH (s.u)	7.59	7.51	7.48	7.50	
Conductivity (mS/cm)	2.29	2.66	2.94	2.92	
Temperature (°C)	17.2	17.8	17.8	17.9	
DO (mg/L)	3.32	2.06	1.58	2.31	0.37
ORP (mV)	-121.7	-129.7	-126.3	-119.3	-167
Turbidity (NTU)	120	2222 AU	2723 AU	2229	

Comments:

Sample ID(s): MW-10
Sample Time: 0850

Sampler(s): L. Best, R. Kreuzer

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	3	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: FA0002462 YSI Quatro, FA0000068 YSI 63, 1463 Lamotte, FA0000639 PID, FA0002668 Horiba

Sample color: yellowish brown
Sample odor: none
Sample appearance: turbid w/m suspended reddish br particles

Other comments:

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: MW-18

Depth to Water: 3.54 ft TOIC
Weather: Sunny, warm
Date: 10/11/16

Total Well Depth: 14.5 ft TOIC
Time elapsed for one volume: 3-6 min
Purge Start Time: 13.50

Depth to Pump: — ft TOIC
DO/ORP Method: downhole
Purge End Time: 14:04

Initial Pump Rate: — mL/min
Evacuation Method: bailer

adjusted to: — mL/min at — minutes
Well Diameter: 2 inches

adjusted to: — mL/min at — minutes
Well Volume: 1.8 gallons

Purge Data

Water column in well 10.96 ft
Gallons in well 1.8 gal
Gal. Purged Prior to Sampling

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	13.50	13:53	13:58	12.65	
DTW (ft TOIC)	3.54	7.32	10.71	14:04	
pH (s.u)	7.41	7.32	7.41	7.76	
Conductivity (mS/cm)	0.80	0.90	0.89	0.79	
Temperature (°C)	18.0	17.5	16.6	15.9	
DO (mg/L)	1.12	2.04	2.26	2.43	0.53
ORP (mV)	-50.3	-114.2	-135.6	-136.1	~~-72~~ -82 RK
Turbidity (NTU)	90.7	124	RK ~~137.2~~ 891 AU	Over-range	

Comments:

Sample ID(s): MW-18
Sample Time: 14:10
Sampler(s): L. Best / R. Kreuzer

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	3	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: Same as MW-10
Sample color: gray
Sample odor: none
Sample appearance: cloudy

Other comments:

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: MW-20

Depth to Water: 2.91 ft TOIC
Weather: Sunny, Cool
Date: 10.11.16

Total Well Depth: 14.2 ft TOIC
Time elapsed for one volume: 3-4 min
Purge Start Time: 09:52

Depth to Pump: — ft TOIC
DO/ORP Method: downhole
Purge End Time: 10:03

Initial Pump Rate: — mL/min
Evacuation Method: bailer

adjusted to: — mL/min at — minutes
Well Diameter: 2" inches

adjusted to: — mL/min at — minutes
Well Volume: 1.8 gallons

Purge Data

Water column in well 11.29 ft
Gallons in well 1.8
Gal. Purged Prior to Sampling 6

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	09:52	09:55	9:59	10:03	
DTW (ft TOIC)	2.91	5.61	7.08	~~8.56~~ 10.41	
pH (s.u)	7.03	6.98	7.06	7.04	
Conductivity (mS/cm)	8.88	8.69	8.53	8.13	
Temperature (°C)	18.8	19.8	19.9	18.3	
DO (mg/L)	1.49	2.38	2.01	1.83	0.93
ORP (mV)	-88.3	-117.0	-119.1	-114.1	-57
Turbidity (NTU)	89	824 AU	1275 AU	3313 AU	

Comments:

Sample ID(s): MW-20
Sample Time: 10:05
Sampler(s): L. Best / R. Kreuzer

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	3	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: Same as MW-10
Sample color: light gray/brown
Sample odor: sulfur
Sample appearance: turbid

Other comments:

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY

Well ID: MW-21

Depth to Water: 2.70 ft TOIC

Weather: 30s, sunny

Date: 10/11/16

Total Well Depth: 14.3 ft TOIC

Time elapsed for one volume: 3-5 min

Purge Start Time: 9:15

Depth to Pump: — ft TOIC

DO/ORP Method: downhole

Purge End Time: 9:26

Initial Pump Rate: — mL/min

Evacuation Method: bailer

adjusted to: — mL/min at — minutes

Well Diameter: 2 inches

adjusted to: — mL/min at — minutes

Well Volume: 1.9 gallons

Purge Data

Water column in well 11.6 ft

Gallons in well 1.9 gal

Gal. Purged Prior to Sampling 6 gal

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	09:15	09:18	9:21	9:26	
DTW (ft TOIC)	2.70	6.43	7.29	7.40	
pH (s.u)	7.56	7.49	7.52	7.54	
Conductivity (mS/cm)	3.49	2.69	5.39	5.63	
Temperature (°C)	18.7	19.3	20.0	18.8	
DO (mg/L)	2.25	2.39	1.50	2.28	0.22
ORP (mV)	-26.3	-131.4	-135.2	-129.1	-102
Turbidity (NTU)	105	730 AU	604 AU	985 AU	

Comments:

Sample ID(s): MW-21

Sample Time: 09:25

Sampler(s): L. Best, R. Kreuzer

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	3	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: same as MW-10

Sample color: ~~Cloudy~~ Slight RF light brown

Sample odor: Slight sulfur

Sample appearance: Cloudy

Other comments:

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: PZ-5

Depth to Water: 9.31 ft TOIC
Weather: indoors
Date: 10/10/16 ~1345

Total Well Depth: 10.8 ft TOIC
Time elapsed for one volume: —
Purge Start Time: —

Depth to Pump: — ft TOIC
DO Method: —
Purge End Time: —

Initial Pump Rate: — mL/min
Evacuation Method: bailer

adjusted to: — mL/min at — minutes
Well Diameter: 0.095 inches

adjusted to: — mL/min at — minutes
Well Volume: 1.35L gallons

Purge Data

Water column in well 1.49 ft
Gallons in well 0.095 x 360 mL
Gal. Purged Prior to Sampling N/A

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time					
DTW (ft TOIC)					
pH (s.u)					
Conductivity (mS/cm)					
Temperature (°C)					
DO (mg/L)					—
ORP (mV)					—
Turbidity (NTU)					

Comments: collected 3 VOAs on 10/10 @ 1355 → dry (clear; sulfur odor)
10.11.16 @ 13:15 depth to water 10.22 → .58 ft in water column
: .58 x 0.064 = → insufficient vol to collect add'l VOAs or params

Sample ID(s): PZ-5
Sample Time: 13:55 (10/10/16)
Sampler(s): L. Best, R. Kreuzer

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	3	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: FA00268 Heron
Sample color: clear
Sample odor: sulfur
Sample appearance:

Other comments:

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: PZ-6
Depth to Water: 9.23 ft TOIC
Weather: indoors
Date: 10/10/16 13:00
Total Well Depth: 10.4 ft TOIC
Time elapsed for one volume: —
Purge Start Time: —
Depth to Pump: — ft TOIC
DO Method: —
Purge End Time: —
Initial Pump Rate: — mL/min
Evacuation Method: bailer
adjusted to: — mL/min at — minutes
Well Diameter: 0.25 inches
adjusted to: — mL/min at — minutes
Well Volume: ~~0.0416 LB~~ gallons 0.07

Purge Data

Water column in well 1.17
Gallons in well ~~0.0416 LB~~ 0.07gal ≈ 265mL
Gal. Purged Prior to Sampling N/A

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time					
DTW (ft TOIC)					
pH (s.u)					
Conductivity (mS/cm)					
Temperature (°C)					
DO (mg/L)					—
ORP (mV)					—
Turbidity (NTU)					

not enough water for sample parameter collection

Comments: collected 1 VOA @ 1340 on 10/10 → dry lt br w/ f-m suspended lt colored particles; → sulfur odor
10/11/16 @ 13:00 - depth to water 9.57 ft not enough water to sample collect; will submit from 10/10

Sample ID(s): PZ-6
Sample Time: 13:40 (10/10/16)
Sampler(s): L. Best, R. Kreuzer

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☑ VOCs	1	HCl	☐	☐
☑ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: FA00268 Heron
Sample color: lt br
Sample odor: sulfur
Sample appearance: slightly cloudy w/ lt. colored f-m suspended particles

Other comments:

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: PZ-8

Depth to Water: 9.70 ft TOIC
Weather: indoors
Date: 10/10/16 13:15

Total Well Depth: 9.80 ft TOIC
Time elapsed for one volume: —
Purge Start Time: —

Depth to Pump: — ft TOIC
DO Method: —
Purge End Time: —

Initial Pump Rate: — mL/min
Evacuation Method: —

adjusted to: — mL/min at — minutes
Well Diameter: 1 inches

adjusted to: — mL/min at — minutes
Well Volume: 0.0041 gallons ≈ 15m

Purge Data

Water column in well 0.10 ft
Gallons in well 0.0041
Gal. Purged Prior to Sampling N/A

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time					
DTW (ft TOIC)					
pH (s.u)					
Conductivity (mS/cm)					
Temperature (°C)					
DO (mg/L)					—
ORP (mV)					—
Turbidity (NTU)					

Comments: on 10/11/16 @ 1255, WL = 9.77 → insufficient volume to sample

Sample ID(s):
Sample Time:
Sampler(s): L. Best, R. Kreuzer

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☐ VOCs			☐	☐
☐ SVOCs	no sample		☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: FA00268 Heron
Sample color:
Sample odor:
Sample appearance:

Other comments:

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: PZ-11R

Depth to Water: 8.73 ft TOIC
Weather: 30s, sunny
Date: 10/11/16

Total Well Depth: 9.9 ft TOIC
Time elapsed for one volume: —
Purge Start Time: 08:16

Depth to Pump: — ft TOIC
DO Method: —
Purge End Time: 08:18

Initial Pump Rate: — mL/min
Evacuation Method: bailer

adjusted to: — mL/min at — minutes
Well Diameter: 1 inches

adjusted to: — mL/min at — minutes
Well Volume: 0.048 gallons

Purge Data

Water column in well 1.17 ft
Gallons in well 0.048 gal ≈ 182 mL
Gal. Purged Prior to Sampling ~175 mL

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	08:16			14:40	
DTW (ft TOIC)	8.73			8.78	
pH (s.u)	7.05				
Conductivity (mS/cm)	4.71			insufficient vol	
Temperature (°C)	17.1				
DO (mg/L)	3.48				—
ORP (mV)	92.0				—
Turbidity (NTU)	93.2				

Comments: dry after purging ~175 mL; will wait for well to recharge prior to sampling @ 8:18

Sample ID(s): PZ-11R
Sample Time: 14:45
Sampler(s): L. Best, R. Kenzer

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	2	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: FA0146B Lamotte
FA0146Z YSI Quatro

Sample color: lt. brown
Sample odor: none
Sample appearance: cloudy

Other comments:

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: PZ-13R

Depth to Water: 8.10 ft TOIC
Weather: 30s, sunny
Date: 10/11/16

Total Well Depth: 9.9 ft TOIC
Time elapsed for one volume: —
Purge Start Time: 08:23

Depth to Pump: — ft TOIC
DO Method: —
Purge End Time: 08:25

Initial Pump Rate: — mL/min
Evacuation Method: bailer

adjusted to: — mL/min at — minutes
Well Diameter: 1 inches

adjusted to: — mL/min at — minutes
Well Volume: 0.071 gallons

Purge Data

Water column in well 1.74 ft
Gallons in well 0.071 gal ≈ 269 mL
Gal. Purged Prior to Sampling ~ 270 mL

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample
Time	08:23			~~14:40~~ LB 14:57
DTW (ft TOIC)	8.16			~~8.48~~ LB 8.18
pH (s.u)	7.14			
Conductivity (mS/cm)	9.57			insufficient volume for param collection
Temperature (°C)	16.2			
DO (mg/L)	3.65			
ORP (mV)	78.0			
Turbidity (NTU)	13.0			

Downhole DO/ORP (final): — / —

Comments: dry @ 08:25 after purging ~ 270 mL, least wait for well to recharge; ~~collected 2 VOAs @ 14:45 for analysis~~ LB

Sample ID(s): PZ-13R
Sample Time: 15:00
Sampler(s): L. Best, R. Kreuzer

Equipment: FA01463 Lamotte, FA01462 YSI Quatro

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☑ VOCs	3 ~~2~~ LB	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Sample color:
Sample odor:
Sample appearance:

Other comments:

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: A1-PZ-2

Depth to Water: 2.38 ft TOIC
Weather: 30-40, sunny
Date: 10-11-16

Total Well Depth: 11.6 ft TOIC
Time elapsed for one volume:
Purge Start Time: 10:25

Depth to Pump: — ft TOIC
DO/ORP Method: YSI w/ bailer
Purge End Time: 10:36

Initial Pump Rate: — mL/min
Evacuation Method: bailer

adjusted to: — mL/min at — minutes
Well Diameter: 1 inches

adjusted to: — mL/min at — minutes
Well Volume: 0.38 gallons

Purge Data

Water column in well 9.22ft
Gallons in well 0.38
Gal. Purged Prior to Sampling

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	10:25	10:27	10:30	10:36	
DTW (ft TOIC)	2.38	4.75	9.55	11.35	
pH (s.u)	8.21	7.92	7.96	8.08	
Conductivity (mS/cm)	0.72	0.75	0.68	0.492	
Temperature (°C)	20.1	20.9	19.8	18.9	
DO (mg/L)	1.96	2.06	2.71	0.39	—
ORP (mV)	-105.2	-140.8	-115.5	-160.0	—
Turbidity (NTU)	1022 AU	overrange	overrange	overrange	

do not fit in well

Comments:

Sample ID(s): A1-PZ-2
Sample Time: 10:45
Sampler(s): L. Best, R. Kreuzer

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	3	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: Same as MW-10
Sample color: brown
Sample odor: none
Sample appearance: turbid

Other comments:

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: A2-PZ-1

Depth to Water: 4.30 ft TOIC
Weather: 40s, sunny
Date: 10/11/16

Total Well Depth: 14.4 ft TOIC
Time elapsed for one volume: 4-7min
Purge Start Time: 11:07

Depth to Pump: — ft TOIC
DO/ORP Method: downhole
Purge End Time: 11:23

Initial Pump Rate: — mL/min
Evacuation Method: bailer

adjusted to: — mL/min at — minutes
Well Diameter: 1 inches

adjusted to: — mL/min at — minutes
Well Volume: 0.4 gallons

Purge Data

Water column in well 10.1 ft
Gallons in well 0.41
Gal. Purged Prior to Sampling ~1.2

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	11:07	11:14	11:18	11:23	
DTW (ft TOIC)	4.30	5.88	6.58	7.47	
pH (s.u)	7.70	7.21	7.15	7.17	
Conductivity (mS/cm)	0.74	0.89	0.91	0.94	
Temperature (°C)	15.8	15.8	15.9	15.2	
DO (mg/L)	3.97	1.81	1.73	3.10	0.86
ORP (mV)	12.9	-63.4	-68.9	-61.7	-86
Turbidity (NTU)	116	1983 AU	2627 AU	overrange	

Comments:

Sample ID(s): A2-PZ-1
Sample Time: 11:25
Sampler(s): L. Best, R. Kreuzer

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☒ VOCs	3	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: same as MW-10
Sample color: gray
Sample odor: none
Sample appearance: cloudy

Other comments:

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Monitoring Well Purging and Sampling Record - Volumetric

Site Name: LMC Utica - 525 French Road, Utica, NY
Well ID: A2-PZ-2

Depth to Water: 6.71 ft TOIC
Weather: 60s, sunny
Date: 10/11/16

Total Well Depth: 14.8 ft TOIC
Time elapsed for one volume: 4-5 min
Purge Start Time: 1331

Depth to Pump: — ft TOIC
DO Method: ~~DO~~ ORP
Purge End Time: 13:40

Initial Pump Rate: — mL/min
Evacuation Method: bailer

adjusted to: — mL/min at — minutes
Well Diameter: 1 inches

adjusted to: — mL/min at — minutes
Well Volume: 0.3 gallons

Purge Data

Water column in well 8.09 ft
Gallons in well 0.33
Gal. Purged Prior to Sampling ~0.8

Well casing volumes: Gal./foot

1/2"=	0.01	1.25"=	0.064
3/4"=	0.023	2"=	0.163
1"=	0.041	4"=	0.653

	Initial	1 Volume	2 Volume	3 Volume/Sample	Downhole DO/ORP (final)
Time	1331	13:36	13:40	14:20	
DTW (ft TOIC)	6.71	10.54	13.67	7.89	
pH (s.u)	7.24	7.48	7.36	7.49	
Conductivity (mS/cm)	1.03	1.04	1.05	1.14	
Temperature (°C)	18.8	17.3	16.2	17.7	
DO (mg/L)	2.58	4.65	3.29	3.95	2.45
ORP (mV)	15.1	16.9	-84.9	-23.7	
Turbidity (NTU)	1306 AV	overrange	overrange	1259 AV	

Comments: dry @ 13:41 after purging ~0.8 gal

Sample ID(s): A2-PZ-2
Sample Time: 14:25
Sampler(s): L. Best, R. Kreuzer

Analyses:	# of cont.	Preservative	Dup?	MS/MSD?
☑ VOCs	3	HCl	☐	☐
☐ SVOCs			☐	☐
☐ PCBs			☐	☐
☐ Pesticides			☐	☐
☐ TAL Metals			☐	☐

Equipment: same as MW-10
Sample color: lt brown
Sample odor: none
Sample appearance: slighty cloudy

Other comments:

Appendix D-7

Data Usability Summary Report

DRAFT

Stantec

Project Name: Lockheed, Utica, NY	Project Number: 190500800
Stantec Validator: Elizabeth Crowley	Laboratory: Test America, Buffalo, NY
Date Validated: 10/31-11/02/16	Laboratory Project Number: 480-107471-1
Sample Start-End Date: 10/10-10/11/16	Laboratory Report Date: 10/24/16

Parameters Validated: Volatile Organic Compounds by EPA SW 846 8260C

Samples Validated: 16 groundwater samples and 1 Trip Blank - See Samples Validated Table

VALIDATION CRITERIA CHECK

Data review based on *Quality Assurance Program Plan, Solvent Deck Area, Former French Road Facility, Utica, NY* October 14, 2009, *USEPA National Functional Guidelines* (USEPA, 1999b), USEPA Region II SOPs and NYSDEC ASP 2005 – Tier III Validation

Validation Flags Applicable to this Review:

U The analyte was analyzed for, but not detected above the reported sample quantitation limit.
J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
B The analyte was detected in the method, field and/or trip blank.

	Yes	No
1. Were all the analyses requested for the samples submitted with each COC completed by the lab?	X	
Comments:		
2. Did the laboratory identify any non-conformances related to the analytical result?	X	
Comments: Case Narrative lists minor issues regarding the analyses. Only issues requiring qualify flags are discussed in this report.		
3. Were sample Chain-of-Custody forms complete?	X	
Comments:		
4. Were samples received in good condition and at the appropriate temperature?	X	
Comments:		
5. Were sample holding times met?	X	
Comments:		
6. Were correct concentration units reported?	X	
Comments:		

7. Were detections found in laboratory blank samples?	Yes	No X
Comments:		
8. Were detections found in field blank, equipment rinse blank, and/or trip blank samples?	Yes	No X
Comments:		
9. Were instrument calibrations within method criteria?	Yes	No X
Comments: Instrument HP5973P Continuing Calibration batch 325584 - %D below ±20% limit for 1,2-dibromo-3-chloropropane (-23%) and methylcyclohexane (-23%). Instrument HP5973P Continuing Calibration batch 325765 - %D below ±20% limit for 1,2-dibromo-3-chloropropane (-21%). Instrument HP5973N Continuing Calibration batch 325847 - %D below ±20% limit for trichlorotrifluoroethane (-21%), 1,1-dichloroethene (-24%), acetone (-22%), carbon disulfide (-27%), cyclohexane (-23%), 1,2-dibromo-3-chloropropane (-24%) and methylcyclohexane (-22%). Instrument HP5973N Continuing Calibration batch 325887 - %D below ±20% limit for acetone (-27%), 4-methyl-2-pentanone (-23%), 1,1,2,2-tetrachloroethane (-22%) and 1,2-dibromo-2-chloropropane (-24%). Instrument HP5973N Continuing Calibration batch 325955 - %D below ±20% limit for 1,1,2,2-tetrachloroethane (-22%) and 1,2-dibromo-3-chloropropane (-28%). Associated sample results flagged “UJ”. Reason Code – CCAL		
10. Were surrogate recoveries within control limits?	Yes X	No
Comments:		
11. Were laboratory control (LC/LD) sample recoveries within control limits?	Yes X	No
Comments:		
12. Were site specific matrix spike (MS/MD) recoveries within control limits?	Yes	No X
Comments: 8260C batch 325887 - %Rs below ±30% limit for 1,2-dibromo-3-chloropropane (66%). Associated results flagged “J” if positive or “UJ” if non-detect for A2-PZ-2 only. Batch 325955 - %Rs below ±30% limit for 1,2-dibromo-3-chloropropane (69%) and cis-1,2-dichloroethene (50%). Associated result flagged “J” for A2-PZ-1 only. Reason Code – MS		
13. Were RPDs within 25% control limit?	Yes X	No
Comments:		
14. Were dilutions required on any samples?	Yes	No

		X	
Comments: Samples analyzed at multiple dilutions when possible. Sample results which exceed the calibration range of the instrument are flagged “J”. Reason Code - EC. The analyte result chosen for reporting when a sample is run at multiple dilutions will be the result with the greatest value and quality. The result not chosen will be flagged “J”. Reason Code - DNR			
15. Were results reported that are below the reporting limit?		Yes X	No
Comments: Sample results below the reporting limit do not possess the degree of qualitative or quantitative confidence required. The value may be a false positive, is an estimated value and is flagged “NJ”. Reason Code – SQL			
16. Were organic GC/MS system performance criteria met?		Yes X	No
Comments:			
17. Were GC/MS internal standards within method criteria?		Yes X	No
Comments:			
18. Were inorganic method performance criteria met?	NA	Yes	No
Comments: No inorganic analyses requested.			
19. Were field duplicates collected? If so, discuss the precision (RPD) of the results. Duplicate Sample Nos. MW-1 MW-1-S/D		Yes X	No
Comments: All RPDs within limits.			
20. Were at least 10 percent of the hard copy results compared to the Electronic Data Deliverable Results?	Yes X	No	Initials EAC
Comments:			
21. Other:		Yes	No X
Comments:			

PRECISION, ACCURACY, METHOD COMPLIANCE AND COMPLETENESS ASSESSMENT

Data are usable as flagged. See Form 1s for flagged data.

Precision:	Acceptable X	Unacceptable	Initials EAC
Comments:			

Sensitivity:	Acceptable X	Unacceptable	Initials EAC
Comments:			
Accuracy:	Acceptable X	Unacceptable	Initials EAC
Comments:			
Representativeness:	Acceptable X	Unacceptable	Initials EAC
Comments:			
Method Compliance:	Acceptable X	Unacceptable	Initials EAC
Comments:			
Completeness:	Acceptable X	Unacceptable	Initials EAC
Comments:			