Final

2014 Annual Comprehensive Sampling/Monitoring Report
Installation-Wide Groundwater Monitoring Program
Niagara Falls Air Reserve Station, New York

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Acronyms and Abbreviations

µg/L	Micrograms per liter
AFCEC	Air Force Civil Engineer Center
AMSL	Above mean sea level
ARS	Air Reserve Station
AW	Airlift Wing
CEV	Civil Engineering – Environmental
CVOC	Chlorinated volatile organic compound
DCE	Dichloroethene
DoD	Department of Defense
EA	EA Engineering, Science, and Technology, Inc.
E&E	Ecology & Environment, Inc.
EPA	U.S. Environmental Protection Agency
ft	Feet or foot
GPS	Groundwater Protection Standard
HRC	Hydrogen release compound
IRP	Installation Restoration Program
mi	Mile(s)
MSG	Mission Support Group
NCSD	Niagara County Sewer District
NYSDEC	New York State Department of Environmental Conservation
O&M	Operation and maintenance
PDB	Passive diffusion bag
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
QC	Quality Control
SAP	Sampling and Analysis Plan
TCE	Tricholorethene
VOC	Volatile organic compound
ZVI	Zero valent iron

1.0 Introduction

The U.S. Department of the Air Force, Air Force Civil Engineer Center (AFCEC), has retained Versar Inc. (Versar) on behalf of the 914th Airlift Wing (AW) Mission Support Group (MSG)/Civil Engineering-Environmental (CEV) under Contract No. FA8903-09-D-8588, Task Order 0006, to perform installation-wide groundwater monitoring in support of the U.S. Department of Defense (DoD) Installation Restoration Program (IRP) activities at the Niagara Falls Air Reserve Station (ARS) in Niagara Falls, New York. Versar has assembled a team with EA Engineering P.C. and its affiliate EA Science and Technology (EA) located in Syracuse, New York to assist with the performance of this project.

The work related to the groundwater monitoring is conducted under the IRP and in compliance with the requirements of a New York State Department of Environmental Conservation (NYSDEC) Part 373 Hazardous Waste Storage Permit (Permit Number 9-2999-00005/00008 issued on 9 March 2010). The permit requires corrective action programs for all solid waste management units. Work was performed in accordance with the following EA documents:

- Work Plan for IRP activities (EA 2010)
- 2010 Site-Specific Quality Assurance Project Plan (QAPP) (EA 2010)
- 2013–2015 Sampling and Analysis Plan (SAP) (EA 2013)
- Health and Safety Plan Addendum (EA 2013).

1.1 IRP Program Objectives

The DoD developed the IRP to ensure compliance with hazardous waste regulations, and to identify and evaluate environmental contamination and associated public health hazards at DoD facilities resulting from past operations and waste handling/disposal. The objectives of the IRP are to provide a methodical and logical approach to the identification, quantification, and development of feasible remedies for environmental problems including related public health hazards caused by the use or disposal of hazardous material at U.S. Air Force facilities.

The IRP studies were initially developed and implemented in a four-phase program. This four-phase approach was later changed to a three-phase program to ensure consistency with the Comprehensive Environmental Response, Compensation, and Liability Act response action process. Environmental studies conducted at the base have followed the three-phased approach as outlined in the National Contingency Plan.

AFCEC is responsible for implementation of the IRP. As the host unit of the Niagara Falls ARS, the 914th AW is responsible for administering remediation under the IRP, including remediation of contamination resulting from tenant organization activities, specifically those of the New York Air National Guard.

1.2 Background

Niagara Falls ARS is located in Niagara County, New York, approximately 15 miles (mi) north of the City of Buffalo and 4 mi east of the City of Niagara Falls. The base covers approximately 547 acres in the towns of Wheatfield to the east and Niagara to the west. The environmental setting of Niagara Falls ARS, including physiography, climate, land use, hydrology, and geology, is found in previous reports within in the administrative record; including in the Stratigraphy Assessment (Ecology & Environment, Inc. [E&E] 1999), the Focused Resource Conservation and Recovery Act Facility Investigation and Interim Corrective Measures Study (E&E 2000), and the Work Plan (EA 2010).

1.3 IRP Site Status

Fourteen IRP sites have been previously identified at Niagara Falls ARS because of their potential for containing environmental contamination. Sites 1, 2, 4, 6, 9, 11, 12, and Old Site 13 (Site 14) have been assigned No Further Response Action Planned status. Sites requiring corrective action per the Part 373 Permit and discussed in this report include the following:

- Site 3 (LF008) – Landfill
- Site 5 (DS004) – Former Boeing/Michigan Aeronautical Research Center Missile Site
- Site 7 (SS014) – Jet Fuel No. 4 Tank Truck Spill
- Site 8 (DS002) – Former Building 202 Drum Storage Yard
- Site 10 (FT005) – Former Fire Training Area No. 1
- Site 13 (ST010) – 4,000-gal Underground Storage Tank.

1.4 Performance-Based Remediation

On 26 September 2012, AFCEC awarded a Performance-Based Remediation Contract, with a 7-year period of performance, to advance the IRP sites remaining on the Part 373 Permit towards site closure. Although achieving site closure is not expected for all of the sites during the period of performance of the Performance-Based Remediation, AFCEC plans to advance each site as close as practicable to site closure. The current corrective measures were designed to prevent off-site migration of contaminants of concern. The goal of the planned remedial approach under the Performance-Based Remediation is to reduce contaminant mass and/or address residual source materials in order to shorten the remedial timeframe. The planned remedial approaches for each of the IRP sites include:

Site Name	Site Description	Current Corrective Measures	Planned Remedial Approach
Site 3 (LF008)	Landfill	Pumping well was deactivated on 24 May 2011, and the site is currently in a post-termination monitoring phase	Zero-valent iron(ZVI)/carbon treatment curtain to address residual concentrations in shallow bedrock groundwater
Site 5 (DS004	Former Boeing/Michigan Aeronautical Research Center Missile Site	Long-term groundwater monitoring and enhanced natural bioremediation	ZVI/carbon injection to target residual source material and reduce overburden/shallow bedrock groundwater concentrations
Site 7 (SS014)	Jet Fuel No. 4 Tank Truck Spill	Long-term monitoring	Oxygen-releasing compound injection to reduce concentrations in shallow bedrock groundwater
Site 8 (DS002)	Former Building 202 Drum Storage Yard	Long-term monitoring and enhanced natural bioremediation	ZVI/carbon injection to reduce overburden and shallow bedrock groundwater concentrations below unrestricted use criteria
Site 10 (FT005)	Former Fire Training Area No. 1	Groundwater removal by collection trench and bedrock pumping well and discharge to a Publicly-Owned Treatment Works for treatment	ZVI/carbon injection to target residual source material and reduce overburden and shallow bedrock groundwater concentrations
Site 13 (ST010)	Closed 4,000 Gal Underground Storage Tank	Groundwater collection by extraction wells and discharge to a Publicly-Owned Treatment Works for treatment	ZVI/carbon injection to treat overburden/shallow bedrock groundwater

2.0 Field Activities

Unless specifically noted otherwise, field activities were conducted in accordance with the Work Plan (EA 2010) and SAP (EA 2013). The following subsections provide detailed information pertaining to the tasks that were conducted.

2.1 Groundwater and Surface Water Elevation Measurements

EA measured static water levels from existing wells and piezometers (120 locations), and nine surface water measurement locations on 9 June 2014 and 6 October 2014 (Figure 2-1 and Table 2-1). Water level gauging occurred in a single day during the spring and fall sampling events. Water level measurements were collected from wells/piezometers using an electronic water level indicator graduated to an accuracy of 0.01 foot (ft). Water levels were referenced to a previously established reference point at each well, piezometer, and surface water location. To supplement the groundwater elevation data, precipitation data for the measurement period were obtained from Weather Underground (www.wunderground.com) for Niagara Falls (Station KIAG), New York.

In June 2014, groundwater elevations were measured in all well/piezometer locations with the exception of MW10-2, which was dry at the time of gauging. In October 2014, groundwater level measurements were obtained from all well/piezometer locations with the exception of MW10-2, MW10-3, MW10-4, MW10-13, and PZ13-1, which were dry at the time of gauging.

2.2 Groundwater Sampling

Groundwater sampling was conducted in June and October 2014 in accordance with the Work Plan (EA 2010), SAP (EA 2013), and as described herein. Groundwater sampling methods included deploying passive diffusion bag (PDB) samplers and grab sampling with dedicated polyethylene bailers.

During each semiannual sampling event and prior to PDB deployment, depth-to-water was measured at each well/piezometer to ensure enough water was present to deploy the PDB. Each PDB was attached to a dedicated stainless-steel wire suspension apparatus and lowered into the well to the midpoint of the well's screened interval. If there was insufficient water in a well to reach the midpoint of the screen, then the PDB was suspended lower in order to remain fully saturated throughout the deployment period. The samplers remained undisturbed in the well until retrieval; at which time, the water level in each well was re-checked to ensure the PDB remained submerged. The PDB samplers were then removed from the wells using the attached cable.

During the June 2014 sampling event, wells at Sites 3, 5, 8, 10, and 13, including one background well, were sampled on 27 June 2014 (Table 2-2). Twenty samples were collected using PDBs which were deployed on 9 June 2014. Four grab samples were collected with dedicated bailers at the active pumping wells at Sites 10 and 13 (PW10-1, PW10-2, PW13-1, and PW13-4D) on 25 June 2014; the wells were continuously purged prior to sampling through routine pumping.

During the October 2014 sampling event, wells at Sites 3, 5, 7, 8, 10, and 13, including one background well, were sampled on 23 October 2014 (Table 2-2). Twenty-four samples were collected using PDB samplers which were deployed on 7 October 2014. Grab samples were collected with dedicated bailers at the four active pumping wells (PW10-1, PW10-2, PW13-1, and PW13-4D) on 22 October 2014; the wells were continuously purged prior to sampling through routine pumping.

2.3 Surface Water Sampling

During the June and October 2014 sampling events, surface water samples were collected at seven locations (Figure 2-1, and Tables 2-1 and 2-3). Samples were collected using the dip method of filling the sample containers directly from the body of water, with the exception of location SW99-10 near Taxiway A2. Due to the height from which this sample is collected, a polyethylene bailer was lowered into the creek to collect the surface water sample.

2.4 Field Quality Control Samples

Quality control (QC) sample types and requirements are described in detail in the QAPP (in EA 2010) and 2013 QAPP Addendum (in EA 2013). The quantity and locations of duplicates and matrix spike/matrix spike duplicate sample sets collected are summarized in Table 2-2 for groundwater and Table 2-3 for surface water.

At the time of PDB sampling for the June and October 2014 sampling events, a field blank sample consisting of water from an unused PDB was collected and submitted for volatile organic compound (VOC) analysis (PDB-BLANK-140627 and PDB-BLK102314). Trip blanks were also shipped with the collected samples during both sampling events at a rate of one per cooler.

2.5 Analytical Methods and Sample Handling

Each field sample was collected in laboratory-approved containers and submitted to Accutest of Marlborough, Massachusetts, a DoD-certified laboratory. Samples were analyzed for VOCs by U.S. Environmental Protection Agency (EPA) Method 8260C. Field documentation; chain-of-custody; and sample identification, custody, and labeling procedures are described in the QAPP (in EA 2010) and 2013 QAPP Addendum (in EA 2013).

2.6 Discharge Monitoring

Monitoring of the groundwater effluent from active pumping wells at Sites 10 and 13 was conducted, typically during the fourth week of the month. EA completed the monthly monitoring from January through December 2014. Samples were analyzed for VOCs by EPA Method 8260C and total metals by EPA Method 6010B on a site-specific basis (Table 2-4) in accordance with the Work Plan (EA 2010), SAP (EA 2013), and the requirements of the Installation's Industrial Waste Discharge Permit from the Niagara County Sewer District (NCSD) #1 (Figure 2-2).

Pumping at extraction well PW3-3A at Site 3 was terminated on 24 May 2011. This well is now in the post-termination monitoring phase in accordance with the NYSDEC Part 373 Permit. No discharge monitoring samples were collected from Site 3 in 2014.

2.6.1 Site 10 (FT005)

Groundwater is pumped from the sump at the end of the passive collection trench (PW10-1) and active pumping well PW10-2. Groundwater is treated in the groundwater treatment system, primarily by air stripping. A granulated activated carbon vessel is also available to treat groundwater if necessary, but it is not currently in use. The monthly effluent monitoring samples were collected from the treatment system effluent (after the air stripper). The monthly samples collected at Site 10 represent NCSD Sample Point C.

A single grab sample of groundwater treatment system effluent was collected monthly from January to December 2014 from discharge sampling valve SV-04 and analyzed for VOCs by EPA Method 8260C and metals (copper, lead, nickel, and zinc) by EPA Method 6010B (Table 2-4).

2.6.2 Site 13 (ST010)

As approved by NYSDEC, in an attempt to increase mass removal efficiency and decrease water disposal costs at PW13-1 and PW13-4D, these pumping wells are being cycled on and off for approximately 3-month periods. A summary of the active and inactive periods is provided in Table 2-5.

During active pumping periods, pumping wells PW13-1 and PW13-4D were sampled for VOC and metals analyses (Table 2-4). A single, 24-hour-flow-weighted, composite sample was collected from the pumping wells (PW13-1 and PW13-4D) for VOC analysis (by EPA Method 8260C) during the middle month of the active pumping cycles. Discrete samples were collected for VOC analysis during the first and last month of the active pumping cycles.

These wells discharge to separate locations; however, the locations are jointly identified as NCSD Sample Point D. Flow-weighted samples were collected monthly during the active pumping cycle and analyzed for metals (lead, nickel, and zinc) by EPA Method 6010B. Composite samples at Site 13 were mixed in proportion to the cumulative flow for each well for the 24-hour period prior to sampling. Typically, proportions were approximately 55 percent from PW13-4D and 45 percent from PW13-1.

2.7 Monthly Inspections and Operations and Maintenance of Pumping Stations

EA performed monthly operation and maintenance (O&M) inspections from January to December 2014 at each pumping well (two at Site 10 [PW10-1 and PW10-2], and two at Site 13 [PW13-1 and PW13-4D]), as well as at the Site 10 treatment system to ensure continued operation of the remedial systems. O&M inspection forms designed specifically for the existing remedial system were used to perform the systems check as described in the Work Plan (EA 2010). A complete set of these forms for each monthly event was included in a monthly report submitted to the NCSD #1, which also included the results of the monthly effluent monitoring described in Section 2.6. Inspections included evaluations of:

- Controls and instrumentation
- Physical appearance of the system, including, but not limited to, the prefabricated enclosure "hot box," concrete pad, wiring, and plumbing of the pumping wells; trailer interior and exterior; and the process piping, tanks, and pumps of the treatment system.

Quarterly electrical inspections were also performed by Delmar Electric Construction Corp in February, April, September, and October 2014; and included inspections of the following:

- Ground fault circuit interrupter operation
- Grounding checks
- Alarm operations
- Panel bulb condition
- Physical condition of the electrical control panel
- Circuit breaker condition
- Controller operations.

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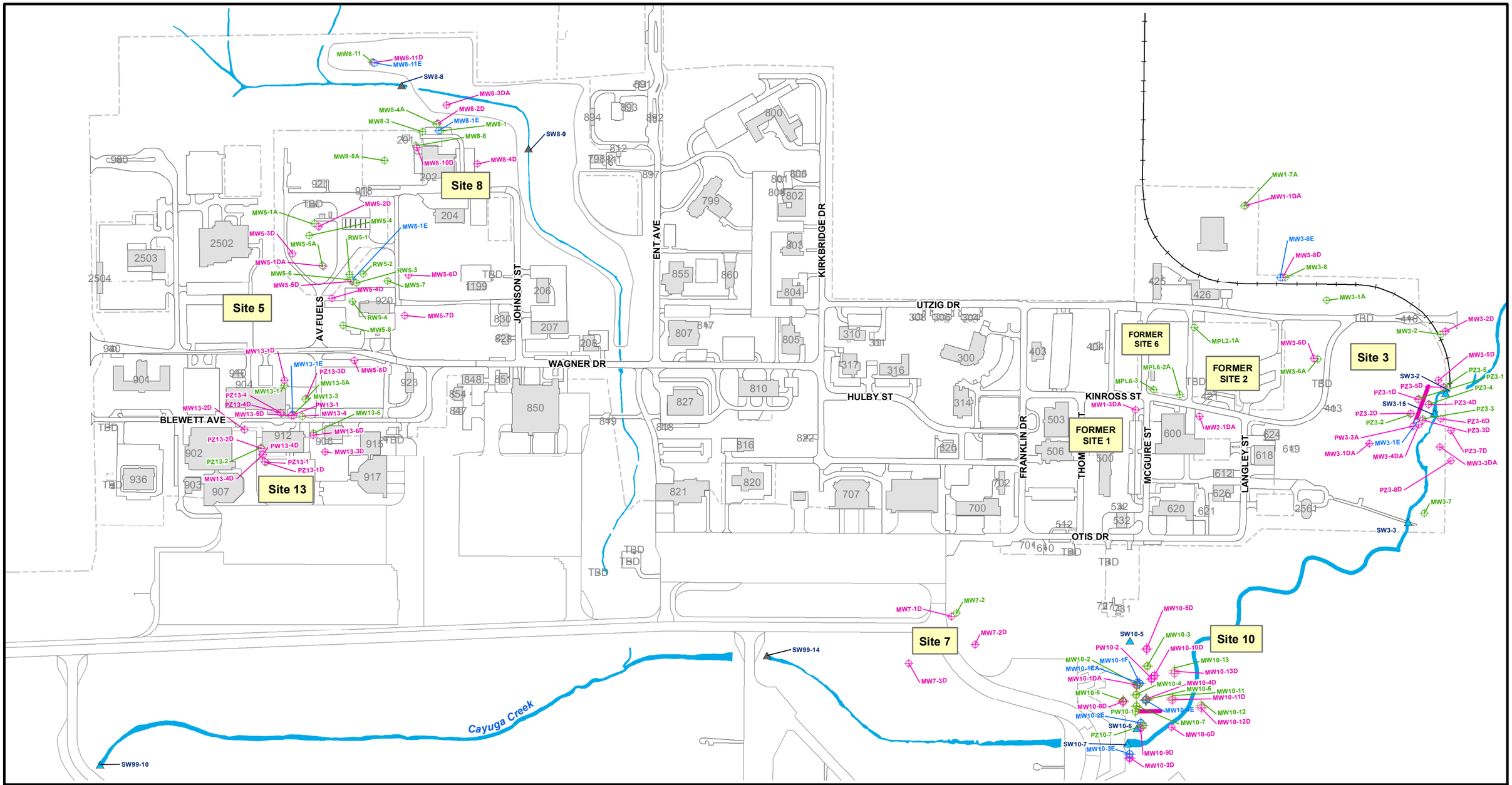

Monitoring Wells

- Deep Bedrock Well
- Overburden Well/Piezometer
- Shallow Bedrock Well/Piezometer
- Groundwater Collection Trench

Surface Water Locations

- Sample and Elevation
- Elevation Only

0 375 750 1,500 2,250 3,000 Feet

2014 Annual Comprehensive Sampling/Monitoring Report
Installation-Wide Groundwater Monitoring Program
Niagara Falls Air Reserve Station
Niagara Falls, New York

FIGURE 2-1
Installation-Wide Monitoring Well and Sample Locations

PROJECT MGR: BY	DESIGNED BY: FD	CREATED BY: FD	CHECKED BY: BY	SCALE: AS SHOWN	DATE: JANUARY 2015	PROJECT NO: 6265401	FILE NO: G:\Projects\Federal\DOD\ 6265401-AFCEC-NFARS

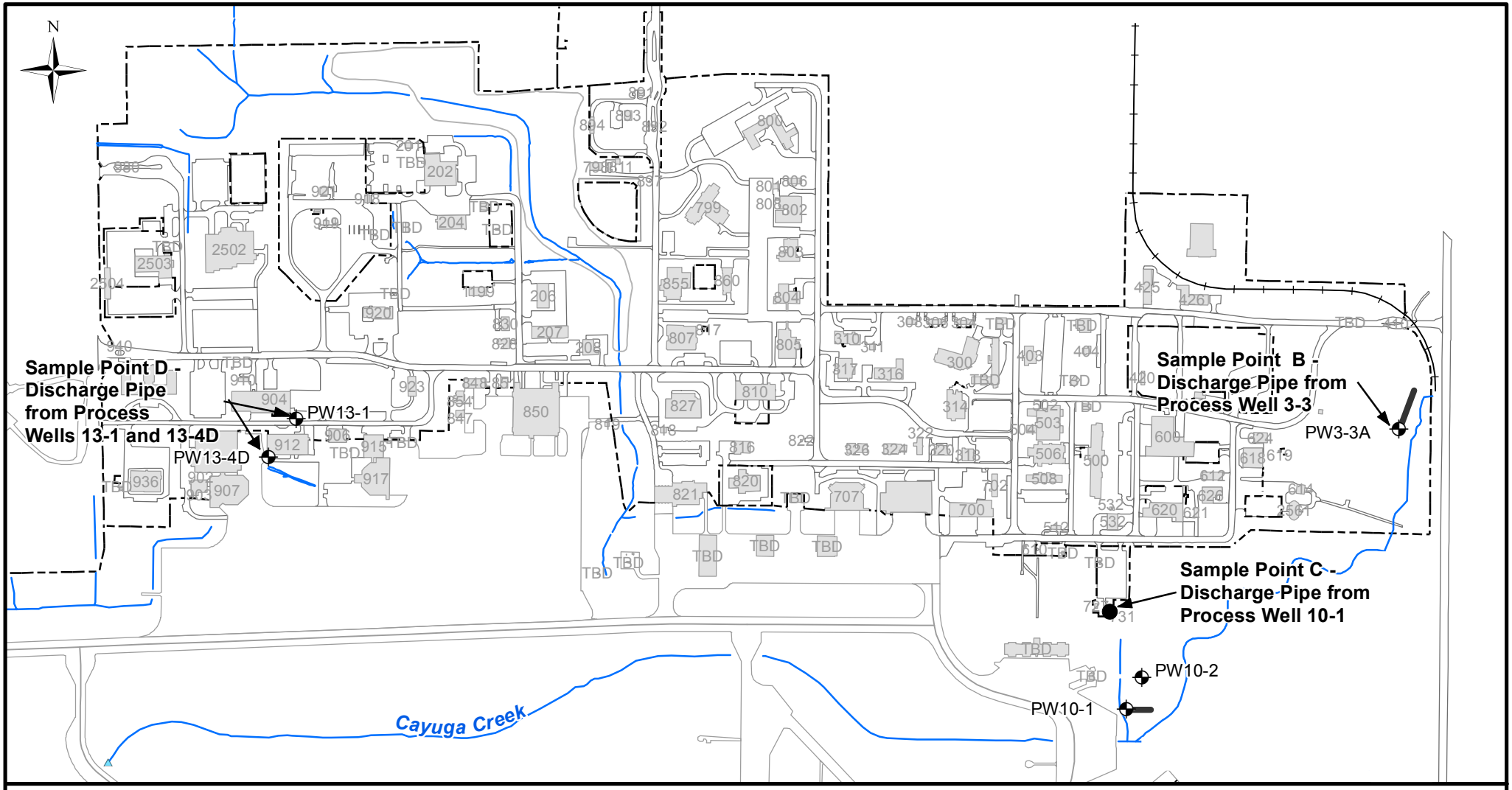

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Figure 2-2
Niagara County Sewer District
Discharge Monitoring Locations

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	LAST UPDATE:	PROJECT NO:	FILE NO:
BY	FD	FD	BY	AS SHOWN	JANUARY 2015	6265401	G:\Projects\Federal\DOD\6265401_AFCEC_NFARS

TABLE 2-1
Groundwater and Surface Water Measurement Locations
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Measurement Locations					
MW1-1DA	PZ3-3	MW5-8D	MW10-1EA	MW10-13D	PZ13-4
MW1-3DA	PZ3-3D	RW5-1	MW10-1F	PW10-1	PZ13-4D
MW1-7A	PZ3-4	RW5-2	MW10-2	PW10-2	MPL2-1A
MW2-1DA	PZ3-4D	RW5-3	MW10-2E	PZ10-7	MPL6-2A
MW3-1A	PZ3-5	RW5-4	MW10-3	MW13-1	MPL6-3
MW3-1DA	PZ3-5D	MW7-1D	MW10-3D	MW13-1D	SW3-2
MW3-1E	PZ3-6D	MW7-2	MW10-3E	MW13-1E	SW3-3
MW3-2	PZ3-7D	MW7-2D	MW10-4	MW13-2D	SW8-8
MW3-2DA	PZ3-8D	MW7-3D	MW10-4D	MW13-3	SW8-9
MW3-3DA	MW5-1A	MW8-1	MW10-4E	MW13-3D	SW10-5
MW3-4DA	MW5-1DA	MW8-1E	MW10-5D	MW13-4	SW10-6
MW3-5D	MW5-1E	MW8-2D	MW10-6	MW13-4D	SW10-7
MW3-6A	MW5-2D	MW8-3	MW10-6D	MW13-5A	SW99-10
MW3-6D	MW5-3D	MW8-3DA	MW10-7	MW13-5D	SW99-14
MW3-7	MW5-4	MW8-4A	MW10-8	MW13-6	
MW3-8	MW5-4D	MW8-4D	MW10-8D	MW13-6D	
MW3-8D	MW5-5A	MW8-5A	MW10-9D	PW13-1	
MW3-8E	MW5-5D	MW8-8	MW10-10D	PW13-4D	
PW3-3A	MW5-6	MW8-10D	MW10-11	PZ13-1	
PZ3-1	MW5-6D	MW8-11	MW10-11D	PZ13-1D	
PZ3-1D	MW5-7	MW8-11D	MW10-12	PZ13-2	
PZ3-2	MW5-7D	MW8-11E	MW10-12D	PZ13-2D	
PZ3-2D	MW5-8	MW10-1DA	MW10-13	PZ13-3D	

NOTE: MW = Monitoring well.
PZ = Piezometer.
RW = Short-term recovery well (Installation Restoration Program Site 5).
PW = Pumping well (Installation Restoration Program Sites 3, 10, 13).
MPL = Former major petroleum license well
SW = Surface water measurement location

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TABLE 2-2
2014 Groundwater Sample Collection Summary
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Well Number	Sample Dates	Purge/Sample Method	Sample Analyses	Field QC Samples[(a)]
Background Well				
MW01-01DA	10/23/14	PDB	VOCs	
MW08-11D	6/27/14	PDB	VOCs	
Site 3				
MW03-03DA	6/27/14 10/23/14	PDB	VOCs	
MW03-04DA	6/27/14 10/23/14	PDB	VOCs	
PZ03-06D	6/27/14 10/23/14	PDB	VOCs	
PZ03-07D	6/27/14 10/23/14	PDB	VOCs	
PZ03-08D	6/27/14 10/23/14	PDB	VOCs	
PW03-03A	6/27/14 10/23/14	PDB	VOCs	MS/MSD (Spring)
Site 5				
MW05-01DA	6/27/14 10/23/14	PDB	VOCs	
MW05-05D/MW05-05DQ	6/27/14 10/23/14	PDB	VOCs	Duplicate (Fall)
MW05-06	6/27/14 10/23/14	PDB	VOCs	MS/MSD (Fall)
RW05-01	6/27/14 10/23/14	PDB	VOCs	
RW05-02	6/27/14 10/23/14	PDB	VOCs	
RW05-04/FD-140627-02	6/27/14 10/23/14	PDB	VOCs	Duplicate (Spring)
Site 7				
MW07-01D	10/23/14	PDB	VOCs	
Site 8				
MW08-01/FD-140627-01	6/27/14 10/23/14	PDB	VOCs	Duplicate (Spring)
MW08-10D	6/27/14 10/23/14	PDB	VOCs	

(a) A trip blank was shipped with each sample cooler.

NOTE: QC = Quality control.
PDB = Passive diffusion bag.
VOC = Volatile organic compound (Method 8260B).
MS/MSD = Matrix spike/matrix spike duplicate.

TABLE 2-2 (CONTINUED)
2014 Groundwater Sample Collection Summary
2014 Annual Comprehensive Sampling/Monitoring Report
Niagara Falls Air Reserve Station, New York

Well Number	Sample Dates	Purge/Sample Method	Sample Analyses	Field QC Samples[(a)]
Site 10				
MW10-01DA	10/23/14	PDB	VOCs	
MW10-03	6/27/14	PDB	VOCs	
MW10-03D	10/23/14	PDB	VOCs	
MW10-04D	10/23/14	PDB	VOCs	
MW10-04E	10/23/14	PDB	VOCs	MS/MSD (Fall)
MW10-07	6/27/14	PDB	VOCs	MS/MSD (Spring)
MW10-09D	10/23/14	PDB	VOCs	
MW10-10D/MW10-10DQ	10/23/14	PDB	VOCs	Duplicate (Fall)
PW10-01	6/27/14 10/23/14	Bailer (grab with no purge)	VOCs	
PW10-02	6/27/14 10/23/14	Bailer (grab with no purge)	VOCs	
PZ10-07	6/27/14	PDB	VOCs	
Site 13				
MW13-04D	6/27/14 10/23/14	PDB	VOCs	
MW13-05D	6/27/14 10/23/14	PDB	VOCs	
PW13-01[(b)]	6/27/14 10/23/14	Bailer (grab with no purge)	VOCs and metals[(c)]	
PW13-04D[(b)]	6/27/14 10/23/14	Bailer (grab with no purge)	VOCs and metals[(c)]	

(b) Samples collected from PW13-1 and PW13-4D were composited as part of the June effluent monitoring
(c) Metals include lead, nickel, and zinc for compliance with NCSD No. 1 permit.

TABLE 2-3
2014 Surface Water Sample Collection Summary
2014 Annual Comprehensive Sampling/Monitoring Report
Niagara Falls Air Reserve Station, New York

Location	Description	Reference Point	Laboratory Analysis	Field QC Samples[a]
SW3-2	Cayuga Creek as it enters the base, upstream of Site 3	Nail in wooden railroad tie	VOCs and field parameters[b]	
SW3-3	Cayuga Creek near gravel road crossing, downstream of Site 3	East end of west gate (top edge of the bottom rail of gate over creek).	VOCs and field parameters	MS/MSD (Spring)
SW3-15	Cayuga Creek between SW3-2 and SW3-3, downstream of the collection trench	Not applicable	VOCs and field parameters	MS/MSD (Fall)
SW8-8	Unnamed tributary upstream of Site 8	Top of west culvert pipe and cut	Not applicable	
SW8-9	Unnamed tributary at east boundary of Site 8	Top of stake	Not applicable	
SW10-5	Drainage ditch upstream of fire training pit	Top of concrete junction box	VOCs and field parameters	
SW10-6	Drainage ditch downstream of fire training pit at Site 10	Top of pipe	VOCs and field parameters	Duplicate (Spring and Fall)
SW10-7	Cayuga Creek downstream of Site 10 and confluence with drainage ditch	Top of south culvert pipe and cut	VOCs and field parameters	
SW99-10	Cayuga Creek near taxiway A2 just before it flows off base	Top of concrete culvert	VOCs and field parameters	
SW99-14	Cayuga Creek west of Site 7 near taxiway A and closed runway	Top of east culvert pipe and cut	Not applicable	

[a] A trip blank was also shipped with the field samples.
[b] Field parameters include temperature, pH, and conductivity.

NOTE: QC = Quality Control
VOC = Volatile organic compound (Method 8260B).
MS/MSD = Matrix spike/matrix spike duplicate.

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TABLE 2-4
2014 Monthly Effluent Sampling Summary
2014 Annual Comprehensive Sampling/Monitoring Report
Niagara Falls Air Reserve Station, New York

		SITE 10		SITE 13			
Month	**Date Sampled**	**PW-10 Effluent VOCs [a]**	**PW-10 Effluent Metals [a, b]**	**PW13-1 VOCs**	**PW13-4D VOCs**	**PW13-1 and PW13-4D Composite VOCs [c]**	**PW13-1 and PW13-4D Composite Metals [d]**
January	1/22/2014	X	X	X	X		X
February	2/26/2014	X	X	Pumps off, no samples collected			
March	3/26/2014	X	X	Pumps off, no samples collected			
April	4/23/2014	X	X	X	X		X
May	5/28/2014	X	X			X	X
June	6/25/2014	X	X			X	X
July	7/23/2014	X	X	X	X		X
August	8/27/2014	X	X	Pumps off, no samples collected			
September	9/24/2014	X	X	Pumps off, no samples collected			
October	10/22/2014	X	X	X	X		X
November	11/26/2014	X	X			X	X
December	12/24/2014	X	X			X	X

(a) Site 10 effluent samples collected from the treatment system effluent valve (SV-04).

(b) Site 10 metals analysis includes copper, lead, nickel, and zinc.

(c) Composited in proportion to the cumulative flow from PW13-1 and PW13-4D during the 24-hours preceding sample collection.

(d) Site 13 metals analysis includes lead, nickel, and zinc.

NOTE: VOC = Volatile organic compound

VOCs analysis by U.S. Environmental Protection Agency (EPA) Method 8260B

Metals analysis by EPA Method 6010B

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TABLE 2-5
Site 13 Pumping Well Activity Summary
2014 Annual Comprehensive Sampling/Monitoring Report
Niagara Falls Air Reserve Station, New York

Pumping Conditions	Period
Pumps on, discharge occurring	Inception to 29-Oct-04
Pumps off, no discharge	29-Oct-04 to 01-Feb-05
Pumps on, discharge occurring	01-Feb-05 to 27-April-05
Pumps off, no discharge	27-Apr-07 to 29-Jul-05
Pumps on, discharge occurring	29-Jul-05 to 27-Oct-05
Pumps off, no discharge	27-Oct-05 to 26-Jan-06
Pumps on, discharge occurring	26-Jan-06 to 27-Apr-06
Pumps off, no discharge	27-Apr-06 to 11-Aug-06
Pumps on, discharge occurring	11-Aug-06 to 15-Nov-06
Pumps off, no discharge	PW13-1: 15-Nov-06 to 21-Feb-07 PW13-4D: 15-Nov-06 to 06-Feb-07
Pumps on, discharge occurring	PW13-4D: 06-Feb-07 to 30-May-07 PW13-1: 21-Feb-07 to 28-Feb-07 22-Mar-07 to 30-May-07
Pumps off, no discharge	30-May-07 to 07-Sep-07
Pumps on, discharge occurring	07-Sep-07 to 29-Jan-08 (PW13-1 off 31-Oct 07 to 6 Dec 07)
Pumps off, no discharge	29-Jan-08 to 22-Apr-08
Pumps on, discharge occurring	22-Apr-08 to 30-Jul-08
Pumps off, no discharge	30-Jul-08 to 28-Oct-08
Pumps on, discharge occurring	28-Oct-08 to 29-Jan-09
Pumps off, no discharge	29-Jan-09 to 29-Apr-09
Pumps on, discharge occurring	29-Apr-09 to 30-Jul-09
Pumps off, no discharge	30-Jul-09 to 29-Oct-09
Pumps on, discharge occurring	29-Oct-09 to 28-Jan-10
Pumps off, no discharge	28-Jan-10 to 29-Apr-10
Pumps on, discharge occurring	29-Apr-10 to 27-Jul-10 (PW13-4D off 9-Jun-10 to 21- Jun-10 and 24-Jul to 26-Jul-10) (PW13-1 off 21-Jun-10 to 23-Jun-10)
Pumps off, no discharge	27-Jul-10 to 25-Oct-2010
Pumps on, discharge occurring	25-Oct-2010 to 25 January 2011 (PW13-1 off 17-Nov-10 to 21-Nov-10) (PW13-1 off 26-Nov-10 to 28-Nov-10)

TABLE 2-5 (CONTINUED)
Site 13 Pumping Well Activity Summary
2014 Annual Comprehensive Sampling/Monitoring Report
Niagara Falls Air Reserve Station, New York

Pumping Conditions	Period
Pumps off, no discharge	PW13-1: 25-Jan-11 to 26-Apr-11 PW 13-4D: 25-Jan-11 to 24-Mar-11
Pumps on, discharge occurring	PW13-1: 26-Apr-11 to 25-Jul-11 (PW13-1 off 12-Jun-11 to 21-Jun-11) PW13-4D: 24-Mar-11 to 25-Jul-11
Pumps off, no discharge	25-Jul-11 to 25-Oct-11
Pumps on, discharge occurring	25-Oct-11 to 25-Jan-12
Pumps off, no discharge	25-Jan-12 to 23-Apr-12
Pumps on, discharge occurring	23-Apr-12 to 30-Jul-12 (PW13-4D off 30-Jun-12 to 10-Jul-12
Pumps off, no discharge	30-Jul-12 to 05-Nov-12
Pumps on, discharge occurring	05-Nov-12 to 28-Jan-13
Pumps off, no discharge	28-Jan-13 to 24-Apr-13
Pumps on, discharge occurring	24-Apr-13 to 24-Jul-13
Pumps off, no discharge	24-Jul-13 to 23-Oct-13
Pumps on, discharge occurring	23-Oct-13 to 22-Jan-14
Pumps off, no discharge	22-Jan-14 to 23-Apr-14
Pumps on, discharge occurring	23-Apr-14 to 23-Jul-14
Pumps off, no discharge	23-Jul-14 to 22 Oct-14
Pumps on, discharge occurring	22-Oct-14 to 28-Jan-15

3.0 Groundwater and Surface Water Monitoring Results

3.1 Site Hydrogeology

This section discusses the June and October 2014 interpreted groundwater flow for Sites 3, 5, 7, 8, 10, and 13; as well as a brief comparison to previous rounds of water elevation measurements collected. Groundwater elevation contour maps were prepared for both the overburden and shallow bedrock water-bearing zones for each site (Figures 3-1 through 3-24) for each sampling event (June and October 2014). Surface water data were incorporated on the groundwater contour maps, where applicable. Water level data are summarized in Appendix A.

Groundwater flow is generally toward Cayuga Creek, with localized influences from anthropogenic features such as pumping wells[1], sumps, and sewer lines. Groundwater flow patterns and groundwater/surface water interactions are also influenced by seasonal fluctuations. To supplement interpretation of seasonal trends, EA obtained precipitation data for the measurement period from Weather Underground (www.wunderground.com) for Niagara Falls (Station KIAG), New York. Weather data are provided in Appendix B.

3.1.1 Site 3 (LF008)

3.1.1.1 Overburden Groundwater

Overburden groundwater flow at Site 3 has consistently been from the northwest to the southeast, toward Cayuga Creek (Figures 3-1 and 3-2). Near Cayuga Creek, limited saturation is observed within the overburden due to the shallowness of the bedrock surface (typically 3–6 ft below ground surface). Cayuga Creek is generally a gaining stream in this reach, based on historical water level measurements, including June and October 2014. The average horizontal gradient of the water table at Site 3 was approximately 1.0–1.5 percent to the southeast in June and October 2014, similar to previous measurements.

3.1.1.2 Bedrock Groundwater

The shallow bedrock groundwater at Site 3 typically flows in a horizontal pattern to the southeast, similar to the overburden groundwater, but with localized variation due to the fractured bedrock. As shown by the June and October 2014 contours (Figures 3-3 and 3-4), the flow is primarily to the southeast and east. As consistently observed in the past, a groundwater mound is present near MW3-6D (upgradient of Site 3 and corresponding to a localized topographic high) that results in radial flow to the north and south.

The June and October 2014 water level measurements indicated that a low area surrounded the trench with groundwater flow towards the southeast and Cayuga Creek. Although active extraction has ceased, the trench remains an area of increased permeability. On the east side of the creek, the June and October 2014 flow directions appear to be westward, towards the creek. This indicates the potential for some hydraulic connection between Cayuga Creek and the shallow-bedrock zone, which is substantiated by the presence of bedrock outcroppings along the creek and the relatively thin veneer of sediment

[1] Water levels in active pumping wells continually fluctuate and field measurements are evaluated relative to approximate elevation ranges within which the pumps are set to operate in order to determine the appropriate water level to use for contouring.

present at other locations in the creek. However, the significant differences (typically greater than 2 ft vertical difference) between the groundwater elevations in the shallow bedrock monitoring wells adjacent to the creek and the elevation of the surface water in the creek, indicates there is a potential for groundwater to flow under Cayuga Creek and towards the south-southeast.

The horizontal hydraulic gradient at Site 3 changes with proximity to the creek and the groundwater mound (coincident with a localized topographic high) near the northwest corner of the site. The average horizontal gradient calculated across the site in the shallow bedrock water-bearing zone has typically been 1 percent or less from northwest to southeast. In June and October 2014, the horizontal hydraulic gradient was approximately 1.0–1.5 percent from northwest to southeast.

Although a deep bedrock groundwater contour map cannot be prepared based on the two deep bedrock wells at Site 3, a comparison of the head values in MW3-1E (589.95 ft above mean sea level [AMSL] in June 2014 and 589.97 ft AMSL in October 2014) and MW3-8E (590.81 ft AMSL in June 2014 and 590.39 ft AMSL in October 2014) indicates that, as observed in the past, there is at least a component of flow to the south-southeast between these two wells that is likely similar to the shallow bedrock and overburden flow patterns.

3.1.1.3 Vertical Gradients

In general, comparison of groundwater elevations between the overburden, shallow bedrock, and deep bedrock wells indicates that there is typically a downward gradient on the western portion of the site away from the creek, except near the mound at MW3-6A and MW3-6D where there is currently and historically a slight upward gradient. Vertical gradients typically were upward (discharge area) near the collection trench and Cayuga Creek.

Between the collection trench and Cayuga Creek, an upward gradient exists from the deep to shallow bedrock similar to previous observations. The presence of artesian shallow bedrock wells east of Cayuga Creek indicates upward flow gradients near the creek, further supporting the potential hydraulic connection between the shallow bedrock water-bearing zone and Cayuga Creek. The presence of artesian conditions also indicates the potential for semi-confined conditions between deeper, fractured bedrock zones and the shallow bedrock zone and Cayuga Creek.

3.1.2 Site 5 (DS004)

3.1.2.1 Overburden Groundwater

The overburden groundwater flow patterns at Site 5 have shown great variability throughout the monitoring program. This variability is believed to be a result of the complicated subsurface stratigraphy, variable and generally very low magnitude horizontal gradient at the site, and resulting sensitivity to local precipitation events.

The predominant direction of groundwater flow at the site is to south; however, localized radial flow components have also been observed. In June and October 2014, flow was generally to the southwest (Figures 3-5 and 3-6), similar to previous sampling events in recent years. The horizontal gradient across the site is typically low (less than 1 percent) with considerable local variability.

3.1.2.2 Bedrock Groundwater

Similar to the overburden groundwater flow at Site 5, shallow bedrock flow patterns have greatly varied. In June and October 2014, flow was generally toward a localized low near MW5-8D (Figures 3-7 and 3-8), which is similar to the pattern observed during previous sampling events in recent years. A deep bedrock zone groundwater contour map was not prepared for this site because there is only one deep well screening the deep zone at Site 5 (MW5-1E).

The magnitude of the horizontal hydraulic gradient varies locally from less than 0.5 percent near the north end of the site to approximately 1.5 percent at the south end. Previous groundwater elevation data have indicated a very low horizontal gradient (less than 1 percent) across the site.

3.1.2.3 Vertical Gradients

A comparison of the groundwater elevations between the overburden, shallow bedrock, and deep bedrock wells indicates a downward vertical gradient throughout most of the site. This was true in June and October 2014 with a downward gradient between the overburden, shallow bedrock, and deep bedrock wells in the source area (north of Building 920). However, overburden and shallow bedrock well pair MW5-5A/MW5-1DA on the western side of the site (inside the fuel storage yard) continues to exhibit an upward gradient similar to historical observations (Appendix A, Table A-5).

3.1.3 Site 7 (SS014)

3.1.3.1 Overburden Groundwater

Historically, overburden groundwater flow at the site has been to the south-southwest toward Cayuga Creek, which has consistently been a gaining stream in this area. No overburden groundwater contour map was prepared for June or October 2014, because only a single overburden well exists at Site 7. Similarly, the magnitude of the horizontal gradient could not be calculated; however, in the past, the horizontal gradient across Site 7 was low (i.e., less than 1 percent).

3.1.3.2 Bedrock Groundwater

Shallow bedrock groundwater flow has generally been to the south-southwest toward Cayuga Creek. However, in June and October 2014, shallow bedrock groundwater flow was to the east (Figures 3-9 and 3-10) toward Site 10. The magnitude of the horizontal gradient in both data sets was approximately 0.5 percent. In the past, the horizontal gradient across Site 7 was also low (i.e., less than 1 percent).

3.1.3.3 Vertical Gradients

The vertical gradient between the overburden and shallow bedrock wells MW7-2 and MW7-1D was downward in June and October 2014, which is typical of most historical conditions (Appendix A, Table A-5).

3.1.4 Site 8 (DS002)

3.1.4.1 Overburden Groundwater

Overburden groundwater flow at Site 8 has historically been to the south-southeast, but has exhibited variability primarily related to groundwater/surface water interactions. In general, the magnitude of the horizontal gradient across the site is very low (less than 1 percent), but is higher in the immediate vicinity of MW8-1 and the tributary.

The small tributary to Cayuga Creek near the site has been observed to alternate between gaining and losing conditions, but is typically a losing stream due to the influx from the nearby rock quarry. In June and October 2014, the tributary appeared to be a losing stream with groundwater flow away from the stream (Figures 3-11 and 3-12). A mound in groundwater elevation was seen at MW8-1 in June and October 2014. This mound has been observed in the past, including June and October 2013.

3.1.4.2 Bedrock Groundwater

Groundwater flow has previously been variable and to the east, southeast, southwest, and south, with a very low horizontal gradient across the site. Pumping associated with the bedrock quarry operations

northwest of the site may, on occasion, result in groundwater flow reversal, as indicated based on water level data from November 2007.

In June and October 2014, similar to 2013, general groundwater flow was to the southeast, with a low magnitude gradient (Figures 3-13 and 3-14).

Two deep bedrock monitoring wells (MW8-1E and MW8-11E) are present at Site 8. Although a deep bedrock groundwater contour map cannot be prepared using only these two wells, comparison of the water elevations (581.74 and 586.14 ft AMSL in MW8-1E and 588.61 and 587.82 ft AMSL in MW8-11E) indicates that, similar to previous observations, there is a southeast component of flow in the deep bedrock aquifer, which has a considerably steeper gradient than the shallow aquifer. The steeper gradient observed in the deep bedrock zone suggests these wells intercept differing fracture sets.

3.1.4.3 Vertical Gradients

Comparison of groundwater elevations between the overburden, shallow bedrock, and deep bedrock wells indicates that in 2014, groundwater generally flowed downward at the site from the overburden and shallow bedrock zones to the deep bedrock zone. However, flow from the shallow bedrock also had an upward gradient to the overburden. This is consistent with observations from the past several years (Appendix A, Table A-5).

3.1.5 Site 10 (FT005)

Pumping from the collection trench (via PW10-1) typically is responsive to precipitation events and occurs approximately twice per month during dry periods, but more frequently in fall and winter. Pumping occurs periodically once the collection trench has filled to the elevation of the pump control switch. Therefore, the actual elevation of water at the time of measurement is used for contouring. For shallow bedrock pumping well PW10-2, the elevation of the midpoint between the high and low level is used since the water level is variable within this range due to the frequent cycling at PW10-2.

3.1.5.1 Overburden Groundwater

Overburden groundwater flow at Site 10 has historically been southward toward Cayuga Creek with drawdown near both the groundwater collection trench and pumping well PW10-2. Similar to observations in June and October 2013, water level elevations in June and October 2014 indicate radial flow toward the collection points (Figures 3-15 and 3-16).

The magnitude of the horizontal gradient exhibits localized variability, especially near PW10-2 and the groundwater collection trench, but has historically varied from approximately 0.5 to 2.6 percent. In the past, the horizontal gradient immediately along the creek appears to periodically reverse as a function of the amount of precipitation and stream runoff, resulting in alternating gaining and losing stream conditions. In June and October 2014, the tributary the Cayuga Creek on the west side of Site 10 appeared to be a losing stream based on a comparison of surface water elevation to groundwater elevation measurements.

3.1.5.2 Bedrock Groundwater

Bedrock groundwater flow has historically been to the south-southeast, consistent with regional groundwater flow. In June and October 2014, shallow bedrock groundwater flow was radial toward pumping well PW10-2, showing effective capture by this well (Figures 3-17 and 3-18). Due to pumping, there is a localized reversal of the historical southward gradient, extending radially outward from the shallow bedrock pumping well and the collection trench. The average horizontal gradient across the site is locally variable and increases with proximity to PW10-2.

Five deep bedrock wells exist at Site 10 with similar monitoring intervals (10-1EA, 10-2E, 10-3E, 10-4E, MW10-1F). Similar to 2013, the June and October 2014 deep bedrock groundwater flow was generally to the south-southwest (Figures 3-19 and 3-20).

3.1.5.3 Vertical Gradients

Previous observations have generally shown variability, but typically consisted of:

- Downward or upward gradients between the overburden and shallow bedrock north of the groundwater collection trench.
- Downward gradients between the shallow bedrock and overburden between the trench and Cayuga Creek.
- Upward (or occasionally low-magnitude downward) gradients between the deep and shallow bedrock north of Cayuga Creek.
- Downward gradient between the shallow and deep bedrock zones south of Cayuga Creek.

June and October 2014 gradients were generally consistent with previous observations, with the exception that the gradients were upward from the deep bedrock to the shallow bedrock and from the shallow bedrock to the overburden in the area between PW10-1 and PW10-2.

3.1.6 Site 13 (ST010)

At Site 13, the measured groundwater elevations for active pumping wells PW13-1 and PW13- 4D were used for contouring because the operational ranges of the pumps are narrow and approximated by the actual values.

3.1.6.1 Overburden Groundwater

The overburden groundwater flow directions have varied from northeast, to east, to southeast, with a common easterly component typically present. The observed variation in flow direction is interpreted to be a function of seasonal variations and a low magnitude horizontal gradient. Pumping from the bedrock groundwater at wells PW13-1 and PW13-4D has also impacted overburden groundwater contours in the past.

The June 2014 groundwater contours indicated the presence of a northwest-southeast trending flow divide with flow towards both the northeast and southwest (Figure 3-21). However, the October 2014 contours indicate a southwest trending flow. During this time the pumping wells were non-operational. The magnitude of the horizontal gradient typically varies at this site and, in the past, has been relatively steep on the west side of the site and shallow on the east side.

3.1.6.2 Bedrock Groundwater

Shallow bedrock groundwater flow directions have been variable in the past, and are interpreted to be the result of the two active pumping wells (PW13-1 and PW13-4D) and seasonal fluctuations in the water table.

In the northern portion of Site 13, a northwest-southeast trending groundwater divide has previously been identified in the vicinity of PW13-1. In June 2014, groundwater flow divides in the shallow bedrock were interpreted to exist in the central portion of the site between the two pumping wells. Shallow bedrock groundwater flow near Building 904 appears to be radially toward pumping well PW13-1; whereas, at the southwest corner of Building 912 the flow is radially away from a high at PZ13-2D with capture of water from the east by pumping well PW13-4D (Figure 3-23). During the October 2014 gauging event, pumping wells PW13-1 and PW13-4D were non-operational. Shallow bedrock flow appears to be radially toward pumping well PW13-1 and the northwest-southeast trending groundwater

divide is absent. At the southwest corner of Building 912, the flow has an easterly component (Figure 3-24).

During pumping, the average horizontal gradient across the site varies greatly due to the presence of the pumping wells. During non-operational periods, the horizontal gradient across the site was less than 1 percent.

A single deep bedrock well (MW13-1E) exists at this site; thus, a horizontal flow direction in this water-bearing zone cannot be ascertained. The elevations of 581.60 and 581.22 ft AMSL in June and October 2014, respectively, are generally consistent with previous gauging results.

3.1.6.3 Vertical Gradients

Vertical gradients across the site in June and October 2014 followed the typical pattern of general downward gradients from the overburden to the shallow bedrock to the deep bedrock, during both pumping and non-pumping conditions. The pumping wells at Site 13 were active during the water level measurements taken in June 2014.

3.2 Groundwater and Surface Water Sampling

This section discusses the groundwater and surface water sampling conducted during the two semiannual sampling events conducted for the Installation-Wide Groundwater Monitoring Project. Sampling was conducted by EA at select wells at IRP Sites 3, 5, 7, 8, 10, and 13; and from background wells as discussed in Sections 2.2 and 2.3 above.

3.2.1 Groundwater Analytical Results

Groundwater analytical results for detected compounds were compared to the Part 373 Permit Groundwater Protection Standards (GPS) for permitted parameters which are derived from NYSDEC Class GA groundwater standards as set forth in New York Code of Rules and Regulations Part 703, Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations. The June and October 2014 groundwater results for each site are discussed in the following sections and summarized in Tables 3-1 through 3-6. Complete laboratory and data validation reports are provided in Appendix C. QC samples and data usability issues are discussed in Section 3.2.3 of this report.

3.2.1.1 IRP Site 3 (LF008)

Groundwater from six wells and piezometers was sampled and analyzed for VOCs in June and October 2014 (Table 3-1 and Figure 3-25). In both June and October 2014, two chlorinated VOCs (CVOCs) were detected at concentrations exceeding their respective GPS (5 micrograms per liter [µg/L] for *cis*-1,2-dichloroethene [DCE] and 2 µg/L for vinyl chloride). No other VOCs were detected at concentrations exceeding the NYSDEC Class GA groundwater standards or guidance values.

Date		June	October	June	October	June	October
Analyte	**GPS**	**MW3-3DA**		**MW3-4DA**		**PW3-3A**	
Cis-1,2-DCE	5	5.4	6.0	5.6	5.7	4.9	2.6
Vinyl Chloride	2	23.1	25.1	12.6	15.5	3.9	0.46 J
Date		**June**	**October**	**June**	**October**	**June**	**October**
Analyte	**GPS**	**PZ3-6D**		**PZ3-7D**		**PZ3-8D**	
Cis-1,2-DCE	5	1.1	2.0	8.0	8.8	1 U	1 U
Vinyl Chloride	2	2.2	4.7	31.7	27.4	1 U	0.47 J

NOTE: U = Analyte was analyzed for but not detected, method reporting limit provided
J = Analyte detected, estimated concentration
All concentrations reported in µg/L.

3.2.1.2 IRP Site 5 (DS004)

Groundwater from six wells was sampled and analyzed for VOCs in June and October 2014 (Table 3-2 and Figure 3-26). Five CVOCs were detected at concentrations exceeding their respective GPS (5 µg/L for 1,1-DCE, *cis*-1,2-DCE, *trans*-1,2-DCE, and chloroethane; and 2 µg/L for vinyl chloride). No other VOCs were detected at concentrations exceeding the NYSDEC Class GA groundwater standards or guidance values.

Date		June	October	June	October	June	October
Analyte	GPS	MW5-5D		MW5-6		RW5-1	
1,1-DCE	5	2.6	2.3 J	1 U	1 U	10.9	9.7
Cis-1,2-DCE	5	1 U	1,510	32.7	15.7	1 U	2,960
Trans-1,2-DCE	5	27.5	40.5	1 U	1 U	20.9	10.1
Vinyl Chloride	2	1 U	2,280 J	39.0	2.7	229	1,030

NOTE: U = Analyte was analyzed for but not detected, method reporting limit provided
J = Analyte detected, estimated concentration
All concentrations reported in µg/L.

Date		June	October	June	October
Analyte	GPS	RW5-2		RW5-4	
Cis-1,2-DCE	5	150	12.6	219	65.7
Vinyl Chloride	2	66.9	0.69 J	276	101 J

NOTE: J = Analyte detected, estimated concentration
All concentrations reported in µg/L.

3.2.1.3 IRP Site 7 (SS014)

Groundwater from one well (MW7-1D) was sampled and analyzed for VOCs in October 2014 (Table 3-3 and Figure 3-27). The benzene concentration in groundwater from MW7-1D (7.0 µg/L) exceeded its GPS (1 µg/L) (Table 3-3). No other Part 373 Permit VOCs were detected.

3.2.1.4 IRP Site 8 (DS002)

Groundwater from two wells (MW8-1 and MW8-10D) was sampled and analyzed for VOCs in June and October 2014 (Table 3-4 and Figure 3-28). In both June and October 2014, two CVOCs were detected at concentrations exceeding their respective GPS (5 µg/L for *cis*-1,2- DCE and 2 µg/L for vinyl chloride). No other VOCs were detected at concentrations exceeding the NYSDEC Class GA groundwater standards or guidance values.

Date		June	October	June	October
Analyte	GPS	MW8-1		MW8-10D	
Cis-1,2-DCE	5	10.1	9.3	8.0	8.5
Vinyl Chloride	2	26.7	25.1	2.0	3.3 J

NOTE: J = Analyte detected, estimated concentration
All concentrations reported in µg/L.

3.2.1.5 IRP Site 10 (FT005)

Groundwater from 11 wells was sampled and analyzed for VOCs in June and/or October 2014 (Table 3-5 and Figure 3-29). Six CVOCs were detected at concentrations exceeding their respective GPS (5 µg/L for *cis*-1,2-DCE, *trans*-1,2-DCE, and trichloroethene [TCE]; 7 µg/L for chloroform; 2 µg/L for vinyl chloride; and 1 µg/L for benzene). No other VOCs were detected at concentrations exceeding the NYSDEC Class GA groundwater standards or guidance values.

The following table summarizes MW10-3 and MW10-7, which are sampled annually in the spring. Monitoring well PZ10-7 was sampled, but no exceedances were detected.

Date		June	
Analyte	GPS	MW10-3	MW10-7
Carbon tetrachloride	5	506	1 U
Chloroform	7	327	1 U
Cis-1,2-DCE	5	48	23.1
TCE	5	107	7.2
Vinyl Chloride	2	3.7	1 U

NOTE: U = Analyte was analyzed for but not detected, method reporting limit provided
J = Analyte detected, estimated concentration
All concentrations reported in µg/L.

The following table summarizes MW10-1DA, MW10-4D, MW10-4E, MW10-9D, and MW10-10D, which are sampled annually in the fall. Monitoring well MW10-3D was sampled, but no exceedances were detected.

Date		October				
Analyte	GPS	MW10-1DA	MW10-4D	MW10-4E	MW10-9D	MW10-10D
Benzene	1	16.5	0.5 U	0.5 U	0.5 U	0.39 J
Chloroform	7	1 U	1 U	1 U	1 U	9.0
Cis-1,2-DCE	5	2,210	48.4	9.5	8.0	4,040
Trans-1,2-DCE	5	17.6	1 U	1 U	1 U	15.0
TCE	5	1 U	1 U	1 U	1 U	285
Vinyl Chloride	2	742	1.6 J	4.8 J	1.7 J	31.2 J

NOTE: U = Analyte was analyzed for but not detected, method reporting limit provided
J = Analyte detected, estimated concentration
All concentrations reported in µg/L

The following table summarizes analytical data collected from the two pumping wells, PW10-2 and PW10-2.

Date		June	October	June	October
Analyte	GPS	PW10-1		PW10-2	
Benzene	1	0.34	0.5 U	5.6	3.1
Cis-1,2-DCE	5	207	232	1,390	692
Trans-1,2-DCE	5	3.1	3.4	11.1	3.5
TCE	5	55.9	70.2	30.1	9.6
Vinyl Chloride	2	14.6	3.6 J	275	172

NOTE: U = Analyte was analyzed for but not detected, method reporting limit provided
J = Analyte detected, estimated concentration
All concentrations reported in micrograms per liter (µg/L)

3.2.1.6 IRP Site 13 (ST010)

Groundwater from two wells (MW13-4D and MW13-5D) was sampled and analyzed for VOCs in June and October 2014 (Table 3-6 and Figure 3-30). In addition, the two pumping wells (PW13-1 and PW13-4D) were sampled in July and October 2014. In both June and October 2014, three CVOCs were detected at concentrations exceeding their respective GPS (5 µg/L for *cis*-1,2-DCE, 5 µg/L for TCE, and 2 µg/L for vinyl chloride). No other VOCs were detected at concentrations exceeding the NYSDEC Class GA groundwater standards or guidance values.

Date		June	October	June	October	June	October	October
Analyte	GPS	MW13-4D		MW13-5D		PW13-EFFL	PW13-1	PW13-4D
Cis-1,2-DCE	5	14.2	12.6	21.3	19.3	15.5	16.9	8.9
TCE	5	ND	ND	2.5	1.7	10.0	7.0	ND
Vinyl Chloride	2	17.4	13.8 J	ND	2.1 J	12.4	7.9	11.3

NOTE: J = Analyte detected, estimated concentration
All concentrations reported in micrograms per liter (µg/L)

3.2.2 Surface Water Analytical Results

Analytical results for surface water samples collected in June and October 2014 are summarized in Table 3-7. Water quality parameters are summarized in Table 3-8. Surface water analytical results were compared to NYSDEC Class C surface water standards (NYSDEC 1998) because Cayuga Creek is assigned this classification by NYSDEC; however, the tributary stream at Site 10 is unclassified. Complete laboratory and data validation reports are provided in Appendix C.

3.2.2.1 Site 3 (LF008)

No VOCs were detected in the 2014 surface water samples collected from Site 3.

3.2.2.2 Site 10 (FT005)

In June and October 2014, there were no VOCs in the surface water samples at concentrations exceeding the NYSDEC Class C surface water standards and guidance values. In June 2014, three Part 373 Permit VOCs (*cis*-1,2-DCE and TCE) were detected. *Cis*-1,2-DCE and TCE were detected in the sample from a tributary to Cayuga Creek at Site 10 (SW10-05) (Table 3-7). In October 2014, an estimated concentration of TCE was detected at SW10-05. No VOCs were detected at any of the other sampling locations in 2014

The intermittent presence of VOCs in samples over time indicates that the Site 10 fire training pit may, at times, be a source of low-level contamination to the surface water in this intermittent drainage ditch. This contamination most likely results from the discharge of shallow groundwater to this ditch during periods of seasonally high groundwater. Because samples collected from Cayuga Creek just downstream of its confluence with the drainage ditch are historically free of VOC contamination, it appears that the presence of low-level concentrations of VOCs in the drainage ditch is not impacting Cayuga Creek. Previous sediment sample analyses from Cayuga Creek indicate that site-related contaminants are not accumulating in the sediment.

3.2.2.3 Cayuga Creek at Downstream Installation Boundary

At sample location SW99-10, collected from Cayuga Creek as it exits the installation, less than 1 µg/L of *cis*-1,2-DCE and vinyl chloride were detected at this location during June 2014. No VOCs were detected during October 2014. A source of these VOCs has not been identified.

3.2.3 Quality Assurance/Quality Control Results

This section summarizes the quality assurance (QA)/QC procedures used and results for the samples collected and analyzed by Accutest Laboratories (Accutest) of Marlborough, Massachusetts, a DoD-certified laboratory. Each procedure was consistent with the QA/QC requirements as described in SW-846, Third Edition, (all promulgated updates) (EPA 1997) and the QAPP (in EA 2010). All analytical data have been reviewed for compliance with precision, accuracy, representativeness, completeness, and comparability parameters using the guidelines and practices published in the EPA Contract Laboratory Program, National Functional Guidelines for Superfund Organic Methods Data Review (EPA 2008). A complete QA/QC review summary for each sampling event is included in the data validation reports at the beginning of Appendix C.

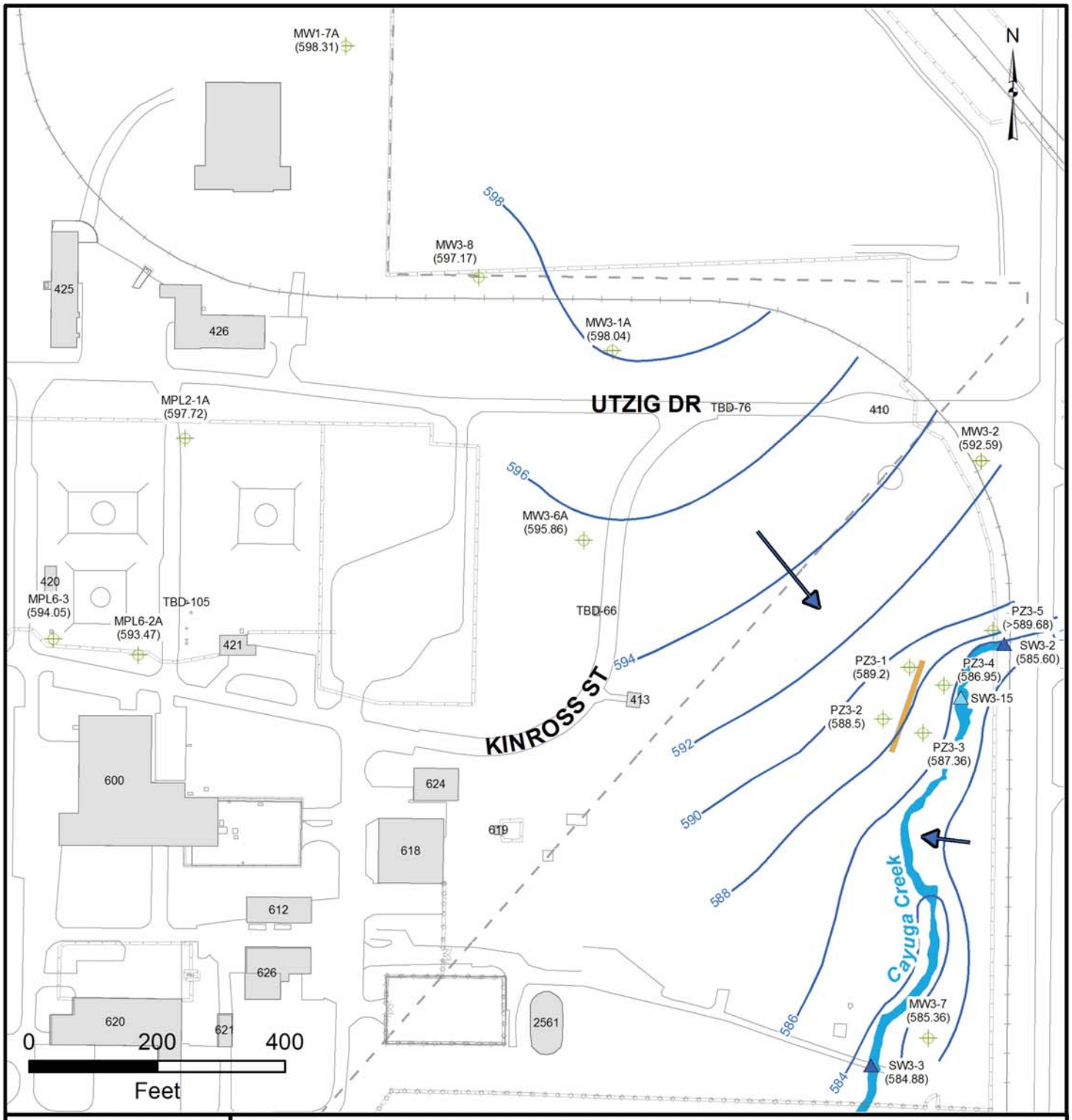
Minor issues were addressed by adding validation qualifiers where necessary. Appropriate data qualifiers and discussion of the qualifiers are provided in the data validation reports. Analytes not-detected in the surface water samples were rejected by the validator and "R" flagged due to analysis of the samples occurring out of hold time. The samples were analyzed only 1 of 2 days beyond the hold time and results were consistent with historical data reported at the sampling locations. Therefore, the

data are considered useable and have been flagged “UJ” (estimated non-detect) for reporting purposes (Table 3-7).

Results and project reporting limits are considered to be estimated values when flagged “J.” Any “J” qualifier not explicitly explained in the QA/QC review summaries indicate that the level detected is below the reporting limit, but above the Method Detection Limit for the associated analyte.

3.2.4 Decontamination and Investigative Derived Waste

Non-dedicated sampling tools (e.g., water level indicators) were decontaminated before and after use following the procedures in the Work Plan (EA 2010). Dedicated equipment (e.g., PDB harnesses and disposable bailers) did not require decontamination. No investigative-derived waste water was generated during the use of PDB samplers, and all personnel protective equipment and general trash (e.g., gloves) were disposed of offsite as non-regulated solid waste.



Overburden Well/Piezometer
Surface Water Sample
Surface Water Sample and Elevation Measurement
Groundwater Collection Trench
Groundwater Elevation Contour
Inferred Groundwater Flow Direction

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Figure 3-1
Overburden Groundwater Contour Map (June 2014)
IRP Site 3

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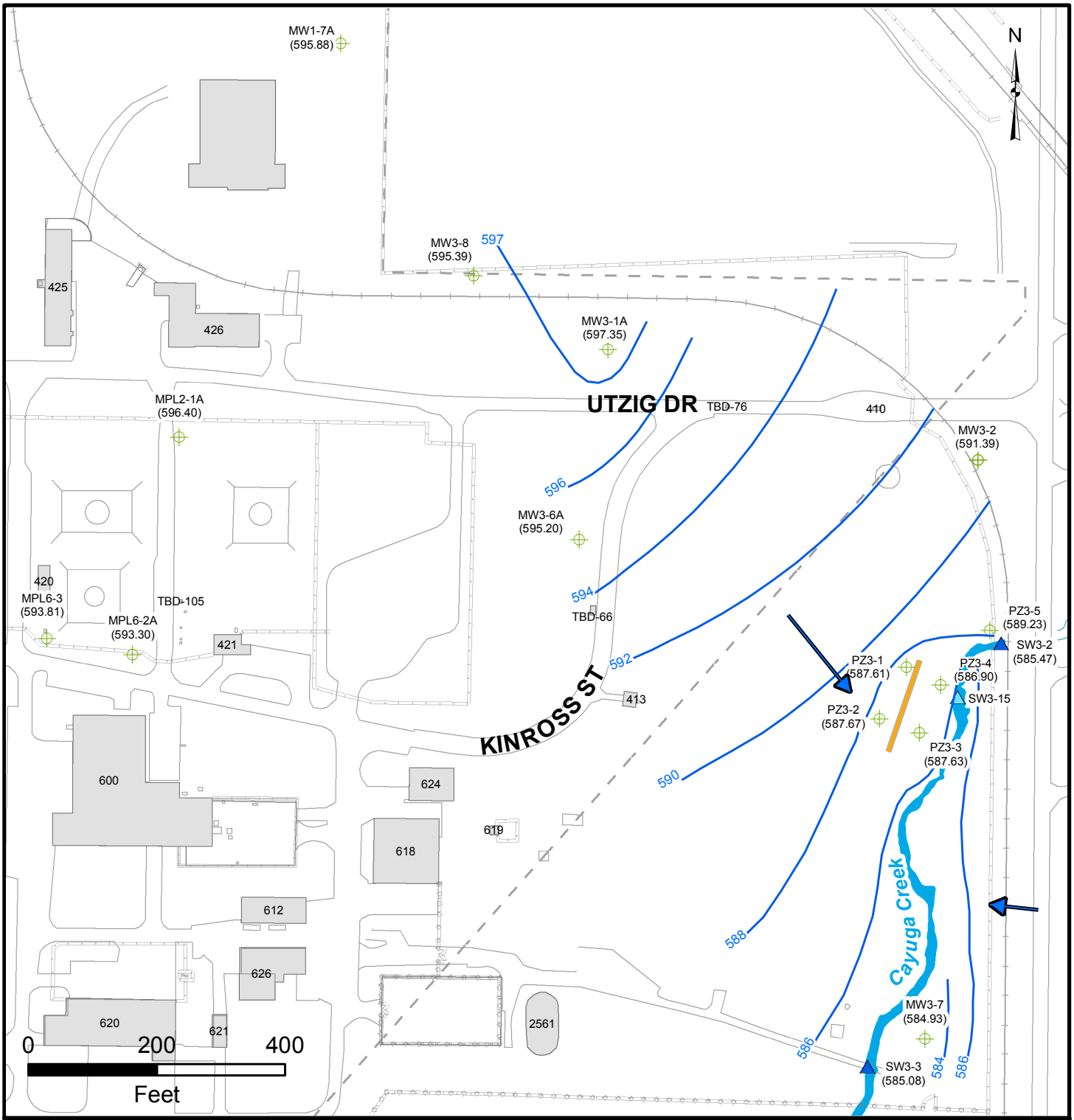

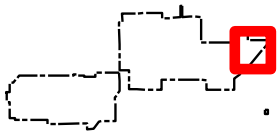

- Overburden Well/Piezometer
- Surface Water Sample
- Surface Water Sample and Elevation Measurement
- Groundwater Collection Trench
- Groundwater Elevation Contour
- Inferred Groundwater Flow Direction

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FIGURE 3-2
Overburden Groundwater
Contour Map (October 2014)
IRP Site 3

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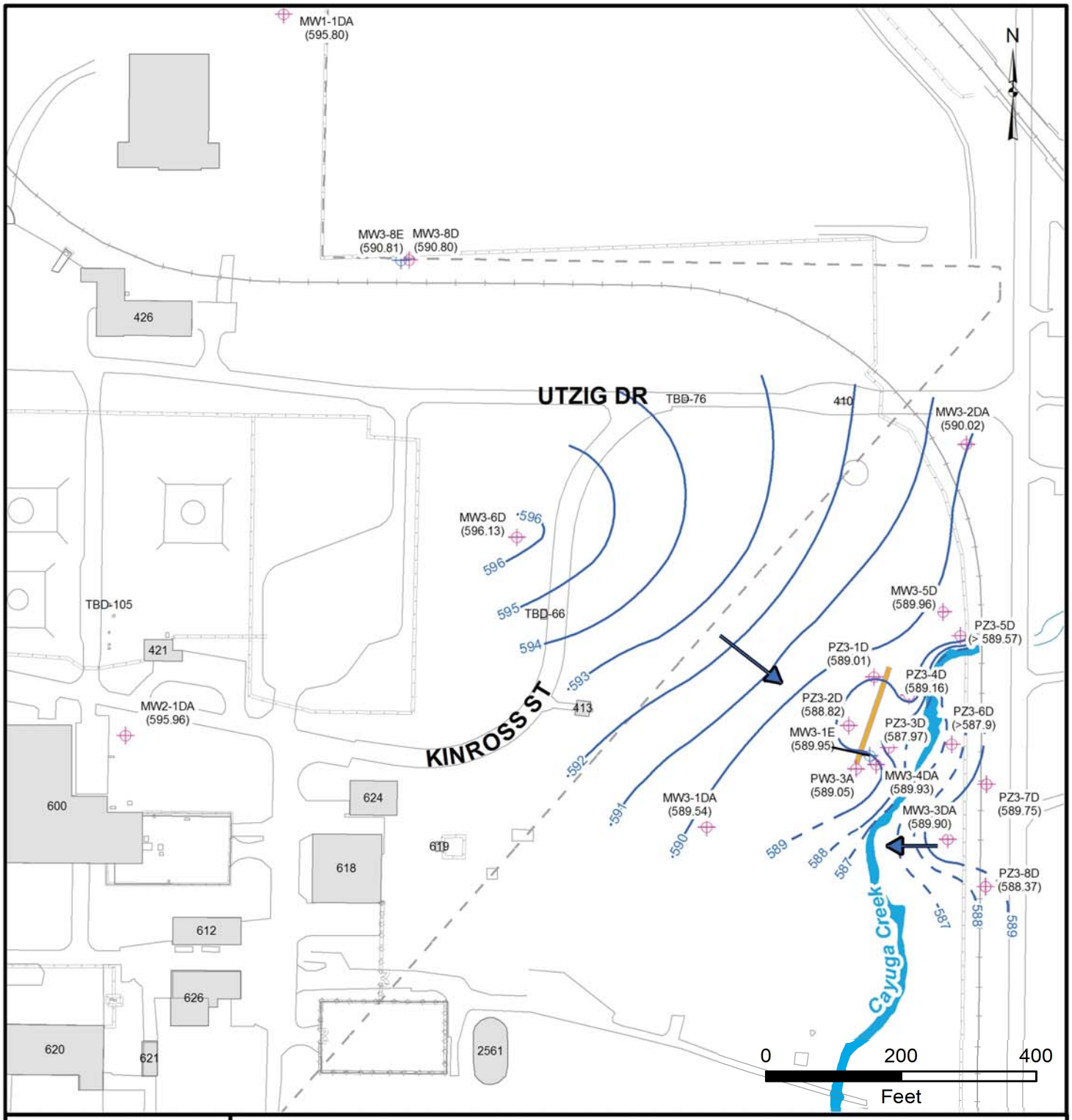

EA®	2014 Annual Comprehensive Sampling/Monitoring Report Installation-Wide Groundwater Monitoring Program Niagara Falls Air Reserve Station Niagara Falls, New York					Figure 3-3 Shallow Bedrock Groundwater Contour Map (June 2014) IRP Site 3	
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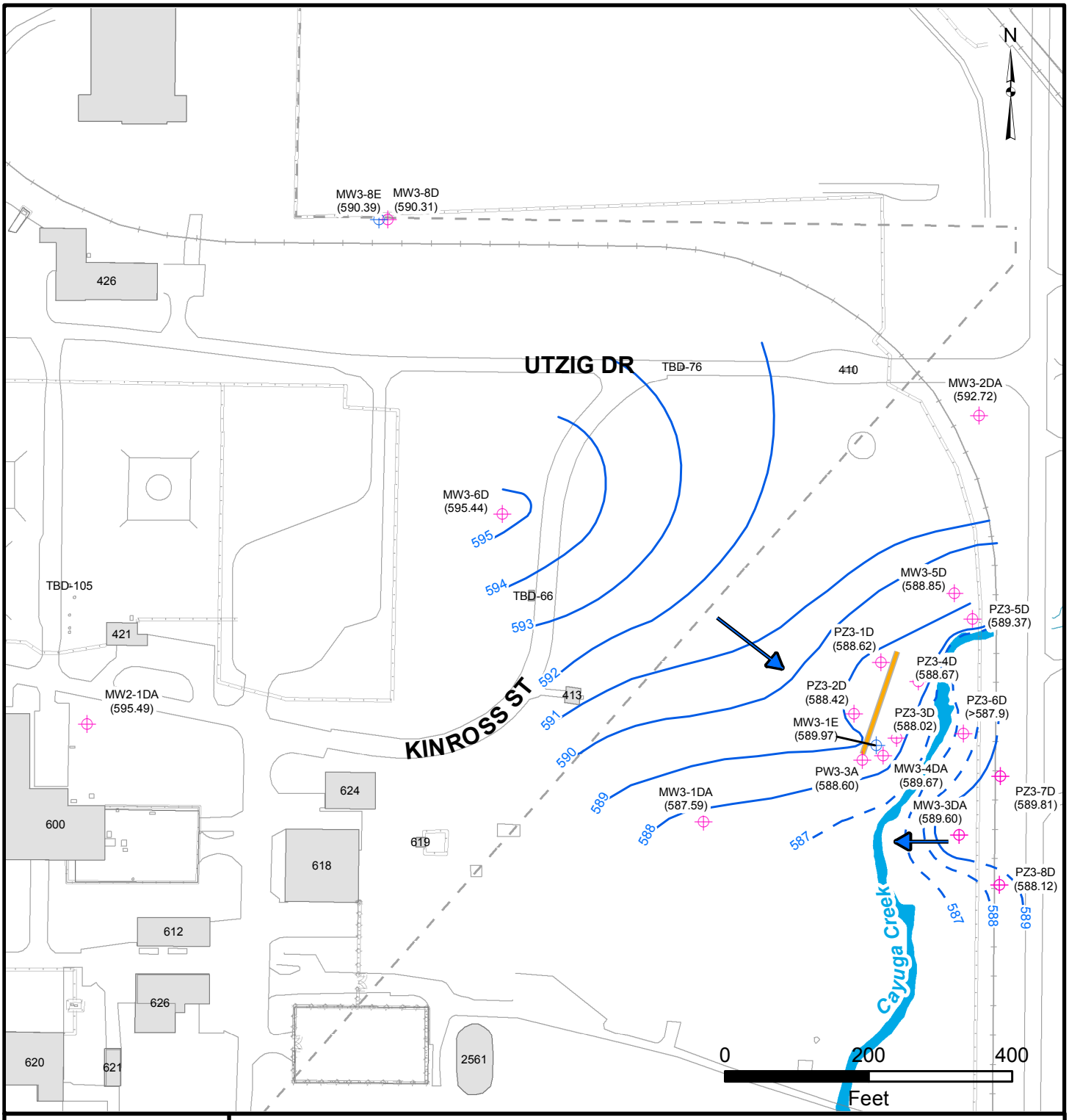

EA®	2014 Annual Comprehensive Sampling/Monitoring Report Installation-Wide Groundwater Monitoring Program Niagara Falls Air Reserve Station Niagara Falls, New York	FIGURE 3-4 Shallow Bedrock Groundwater Contour Map (October 2014) IRP Site 3

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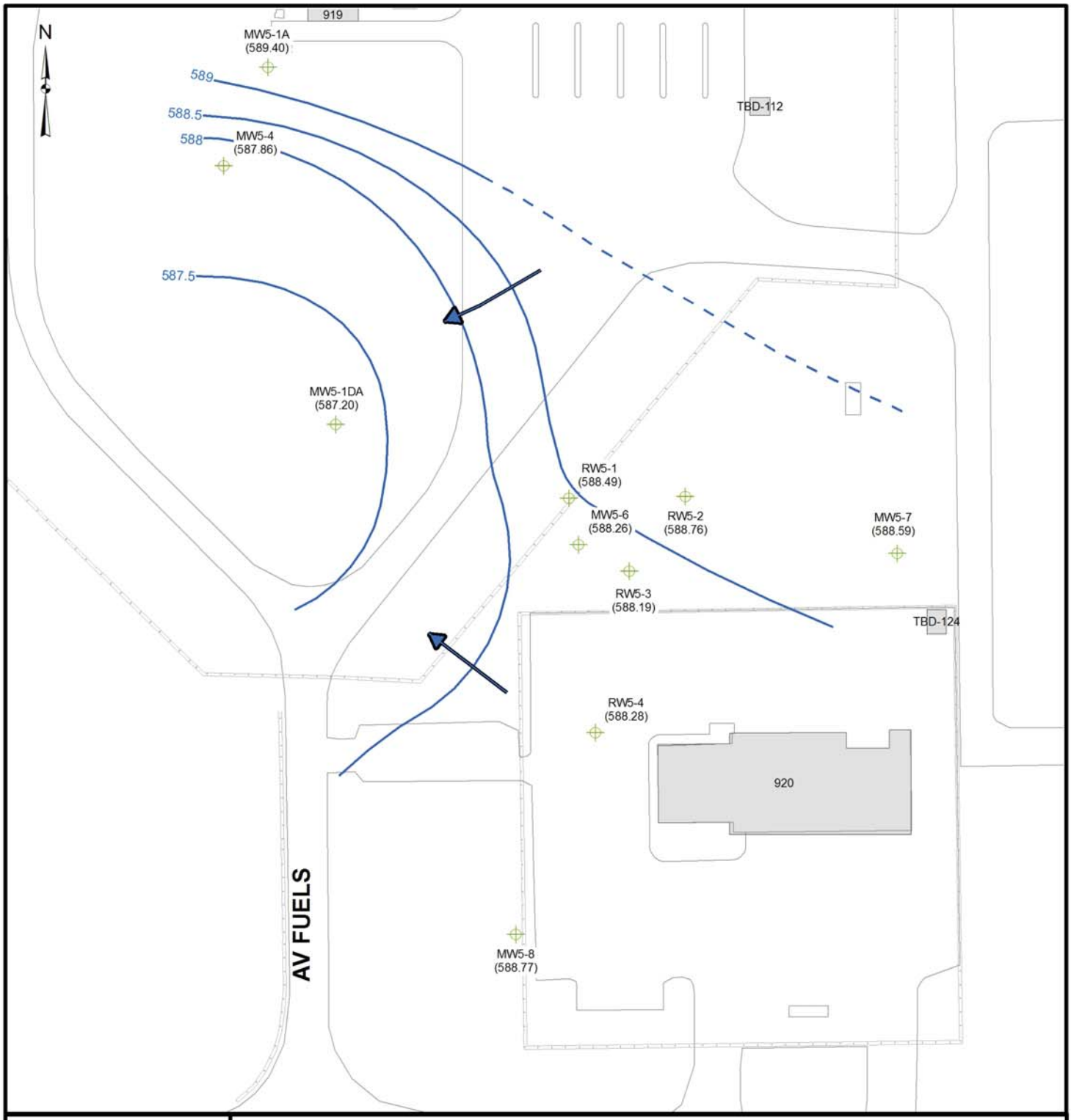

Overburden Well

Groundwater Elevation Contours (ft)
(Dashed Where Inferred)

Inferred Groundwater Flow Direction

0 50 100
Feet

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Figure 3-5
Overburden Groundwater
Contour Map (June 2014)
IRP Site 5

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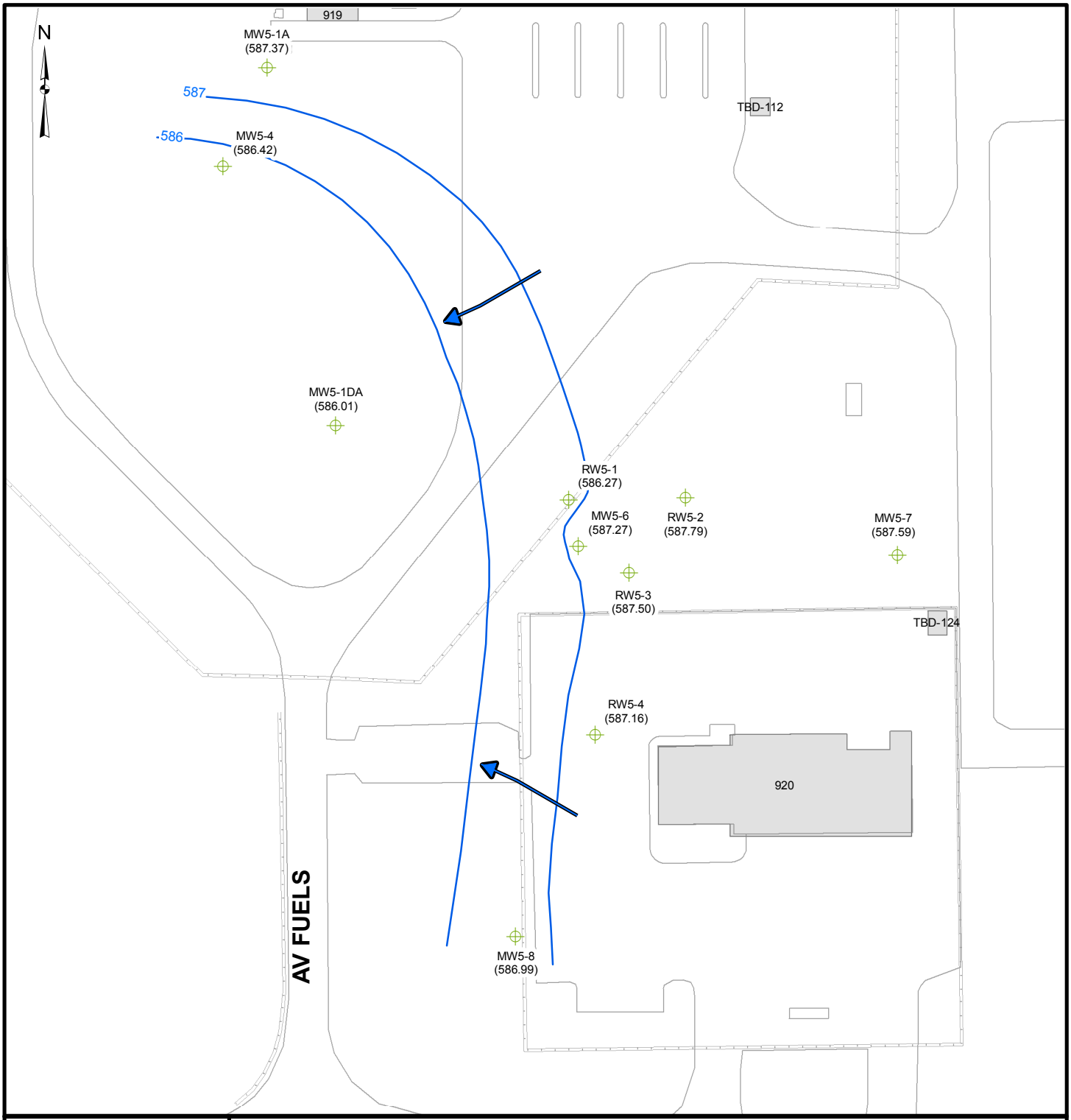

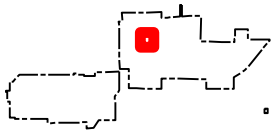

Overburden Well

Groundwater Elevation Contours (ft)
(Dashed Where Inferred)

Inferred Groundwater Flow Direction

0 50 100
Feet

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FIGURE 3-6
Overburden Groundwater
Contour Map (October 2014)
IRP Site 5

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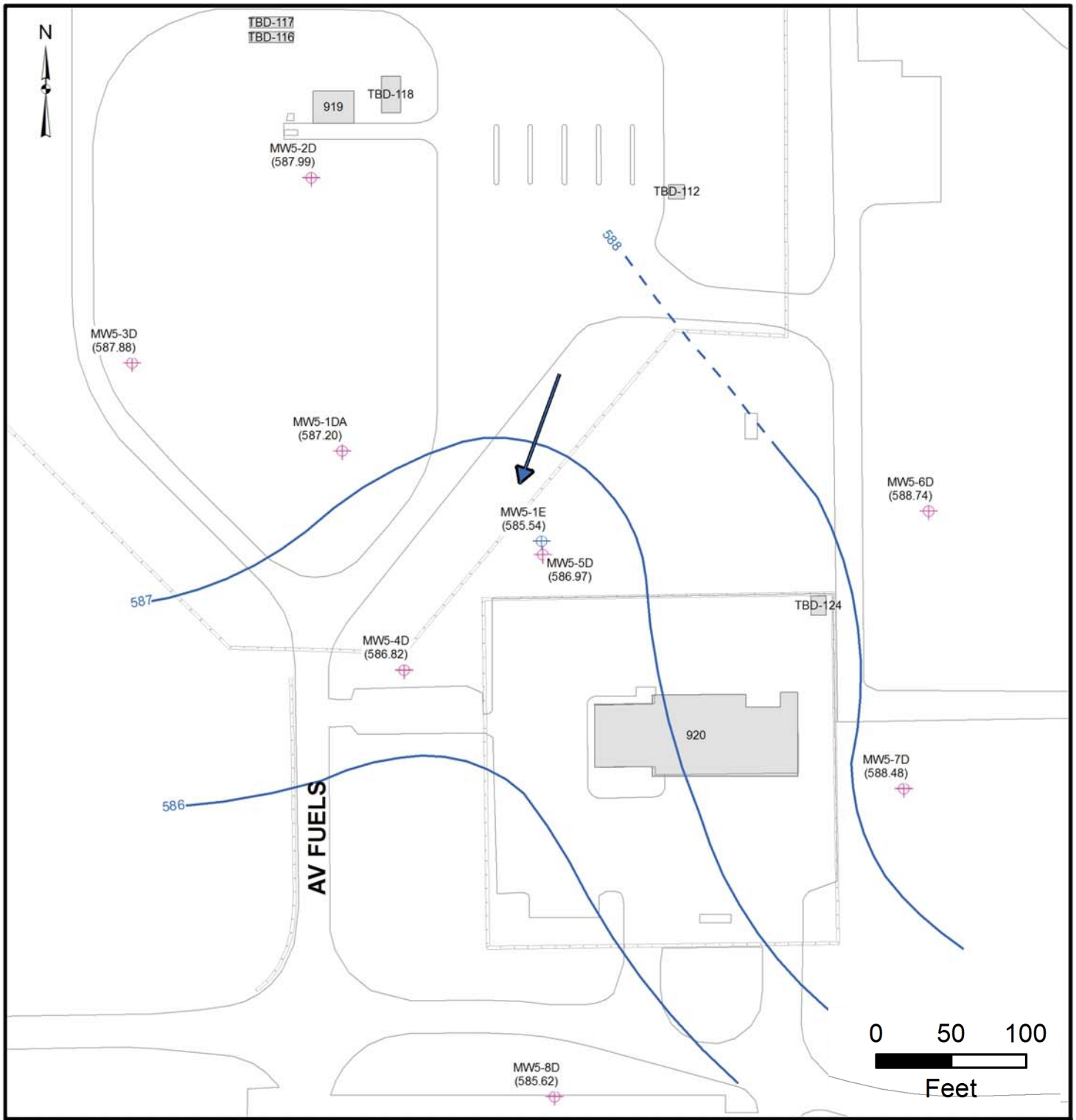

Shallow Bedrock Well/Piezometer

Deep Bedrock Well

Groundwater Elevation Contours (ft)
(Dashed Where Inferred)

Inferred Groundwater Flow Direction

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Figure 3-7
Shallow Bedrock Groundwater
Contour Map (June 2014)
IRP Site 5

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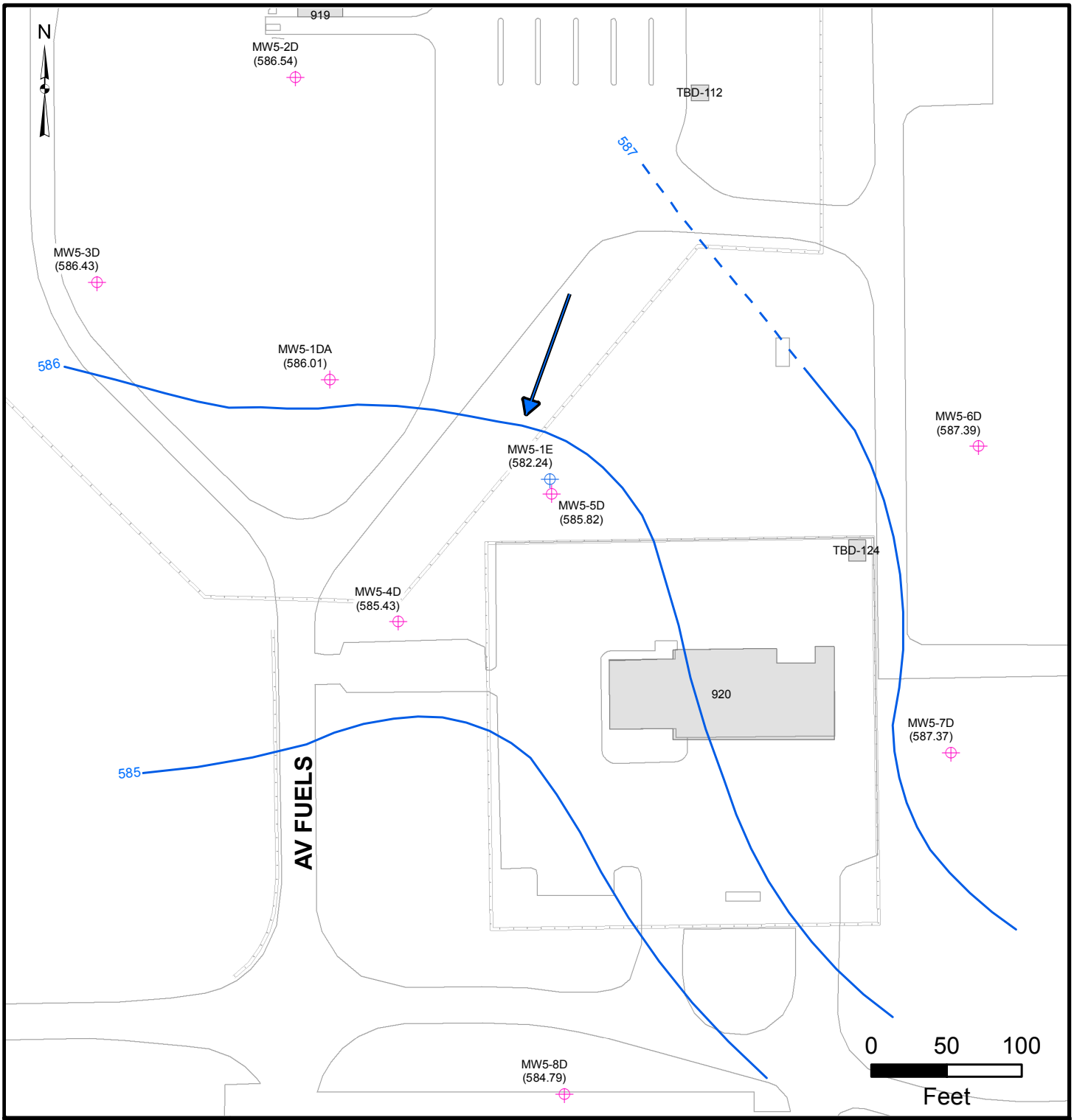

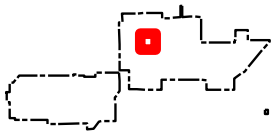

Shallow Bedrock Well/Piezometer

Deep Bedrock Well

Groundwater Elevation Contours (ft)
(Dashed Where Inferred)

Inferred Groundwater Flow Direction

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FIGURE 3-8
Shallow Bedrock Groundwater
Contour Map (October 2014)
IRP Site 5

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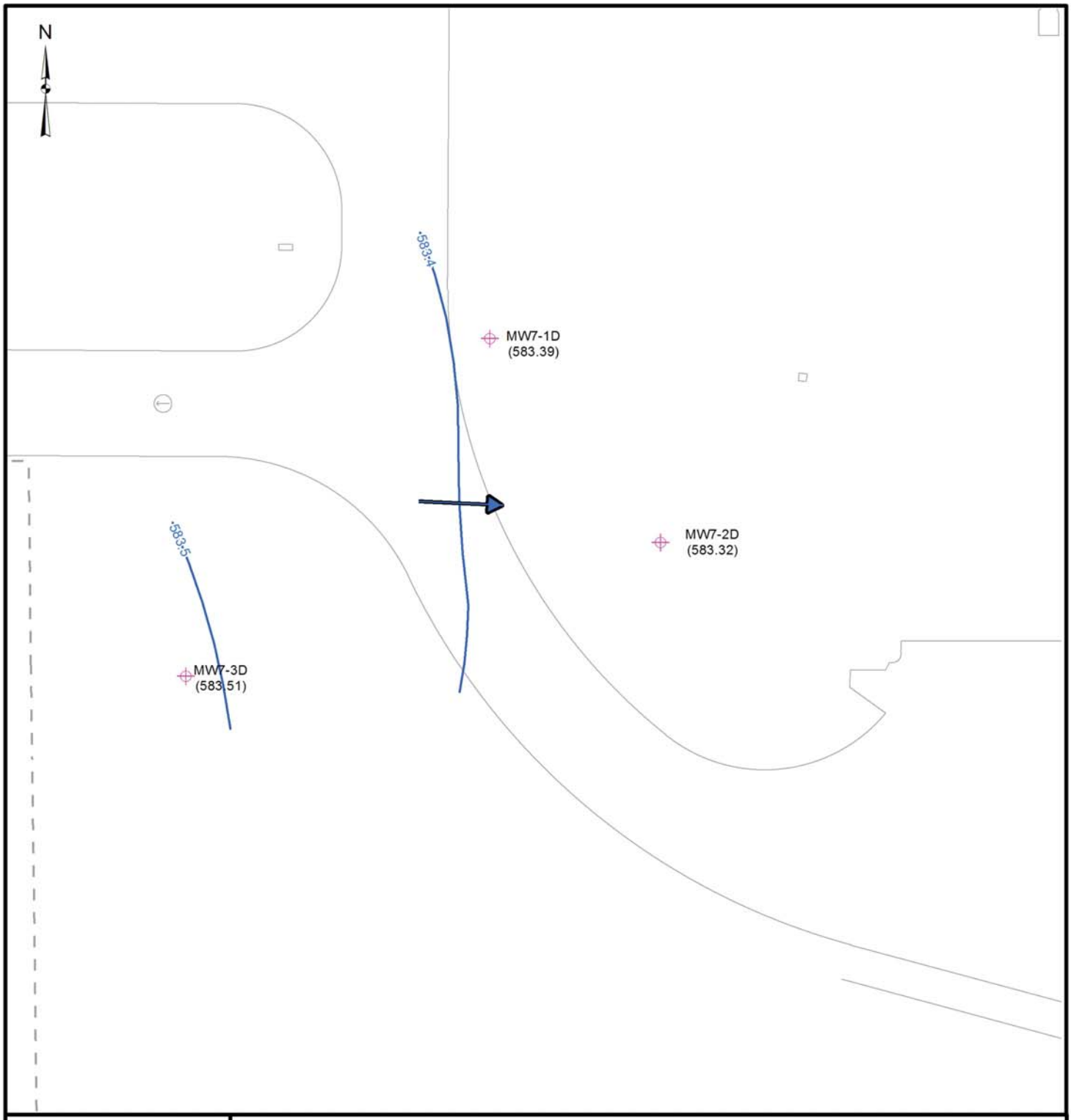

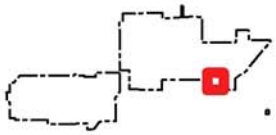

Shallow Bedrock Well

Groundwater Elevation Contours (ft)
(Dashed Where Inferred)

Inferred Groundwater Flow Direction

0 50 100

Feet

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Figure 3-9
Shallow Bedrock Groundwater
Contour Map (June 2014)
IRP Site 7

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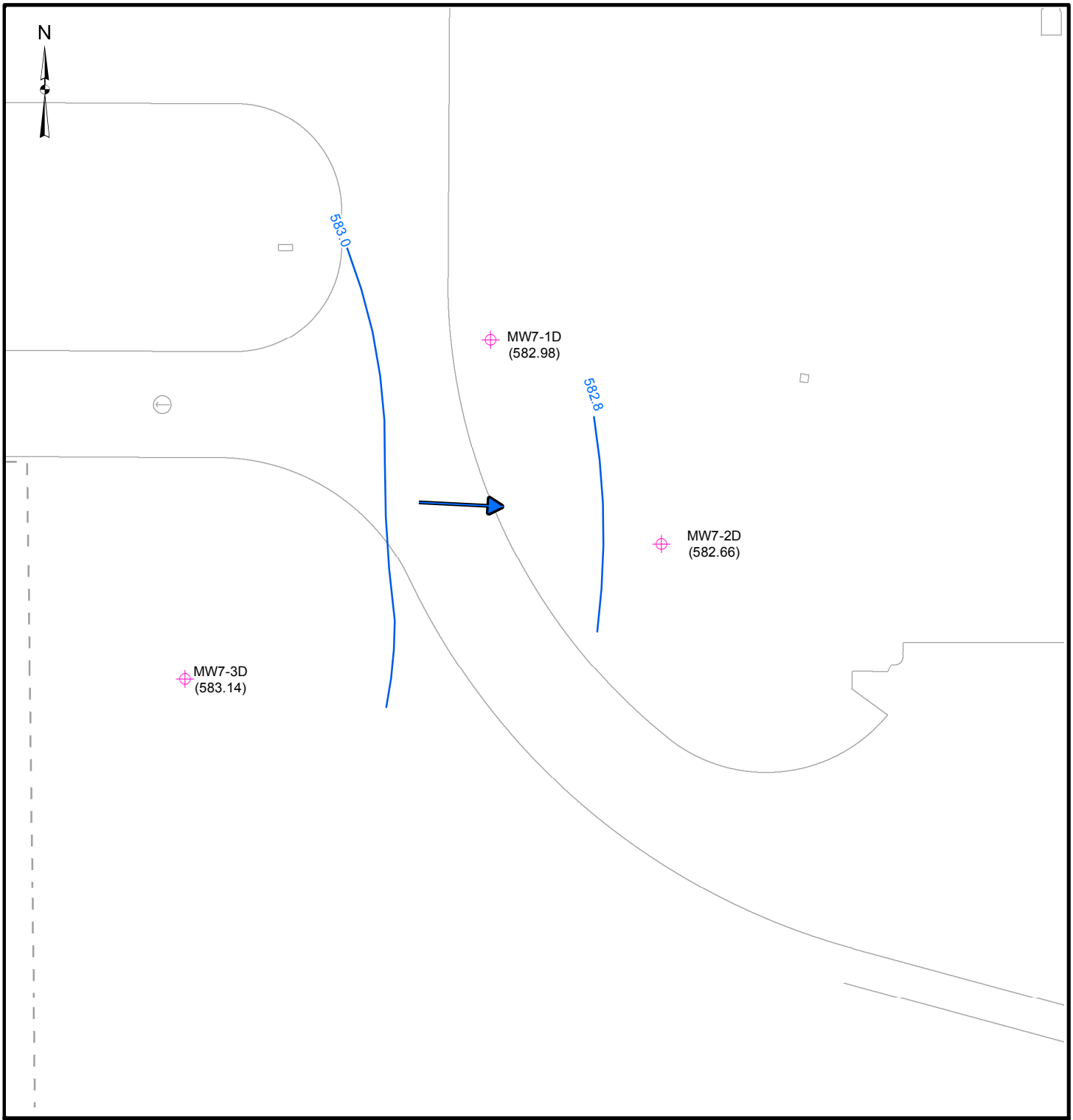

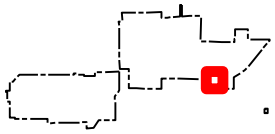

Shallow Bedrock Well

Groundwater Elevation Contours (ft)
(Dashed Where Inferred)

Inferred Groundwater Flow Direction

0 50 100

Feet

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FIGURE 3-10
Shallow Bedrock Groundwater
Contour Map (October 2014)
IRP Site 7

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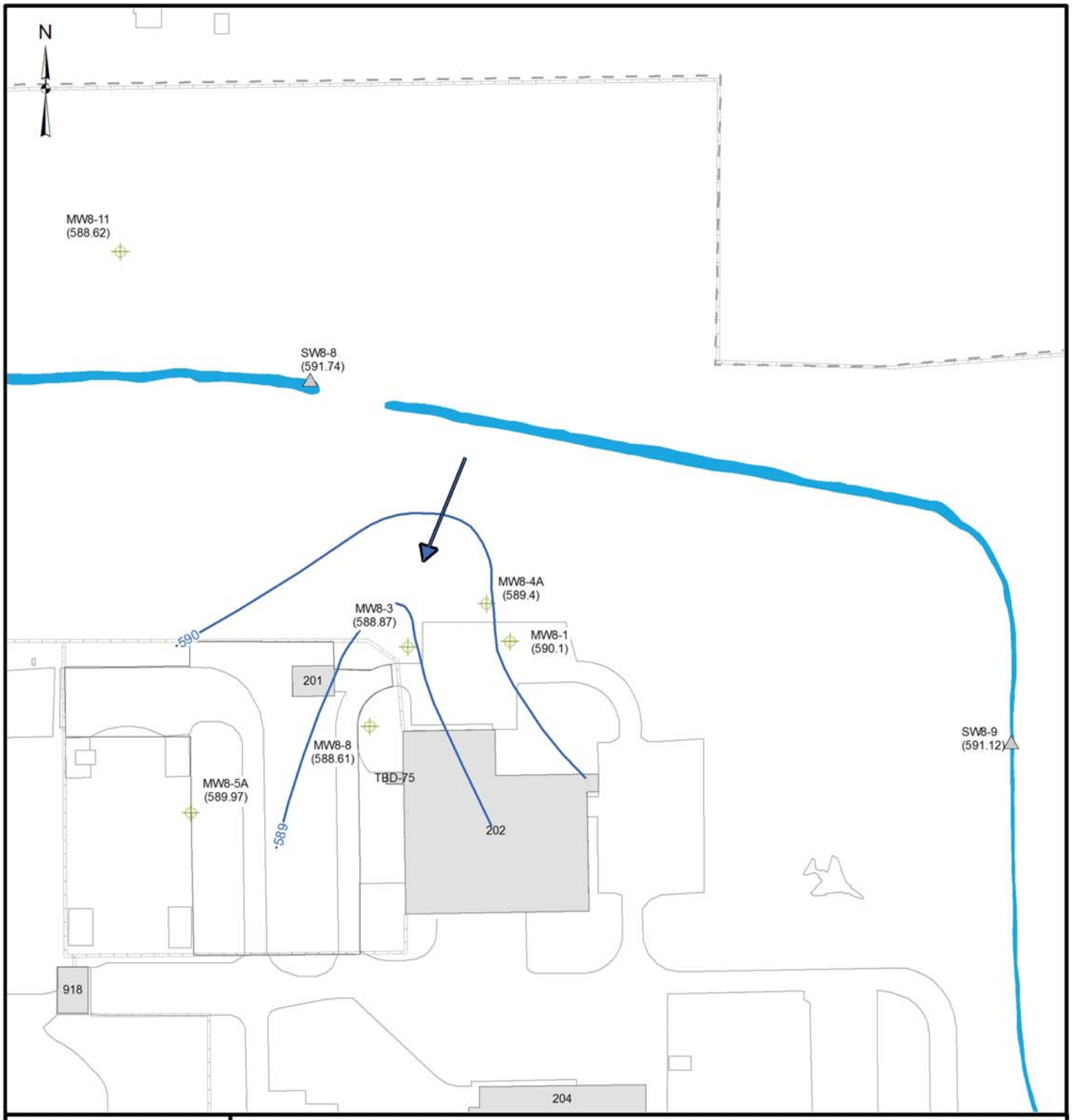

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Figure 3-11
Overburden Groundwater
Contour Map (June 2014)
IRP Site 8

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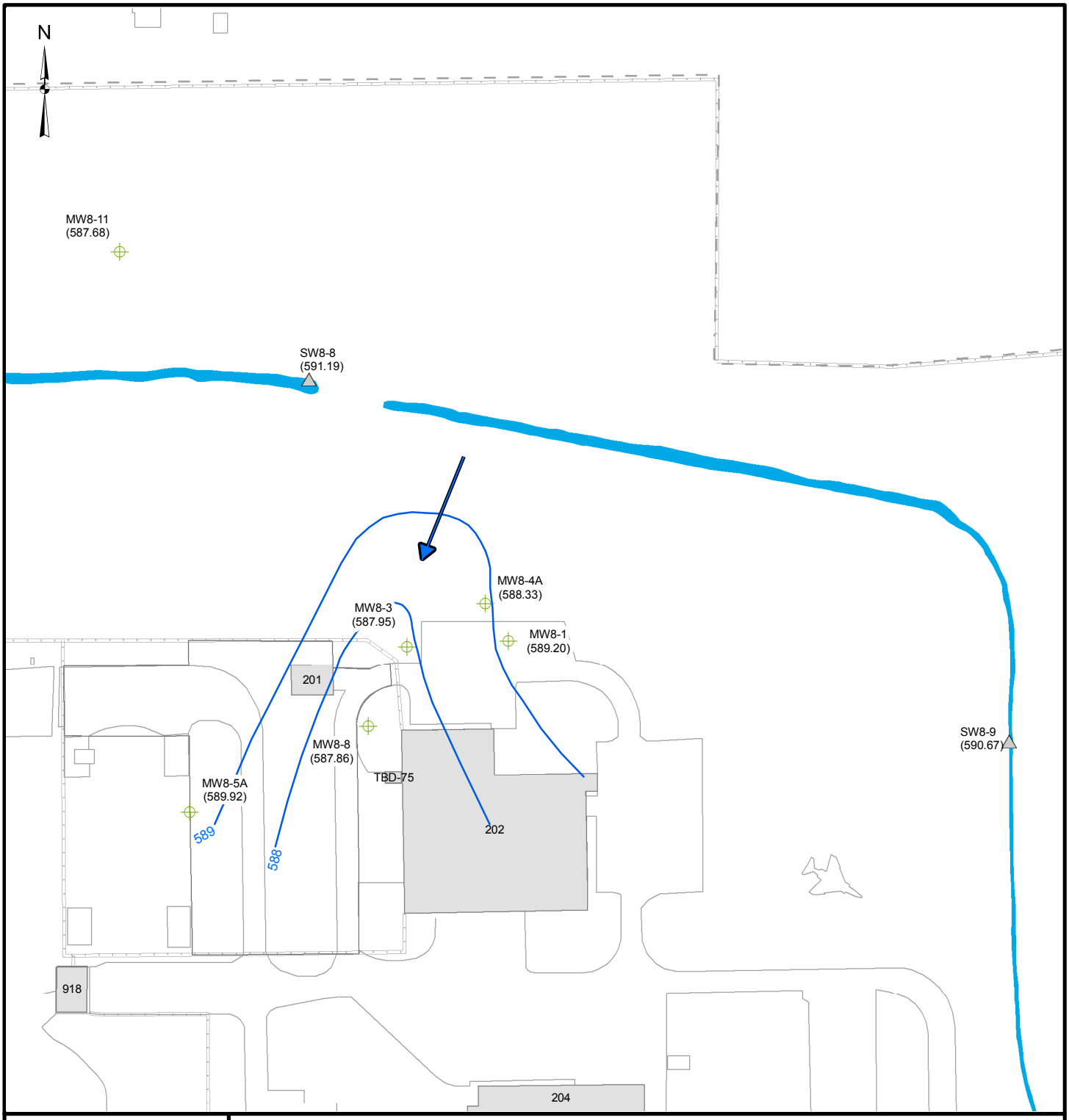

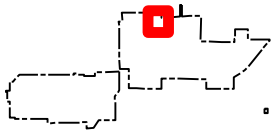

Overburden Well/Piezometer

Surface Water Elevation Measurement

Inferred Groundwater Elevation Contour (ft)

Inferred Groundwater Flow Direction

0 75 150

Feet

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FIGURE 3-12
Overburden Groundwater
Contour Map (October 2014)
IRP Site 8

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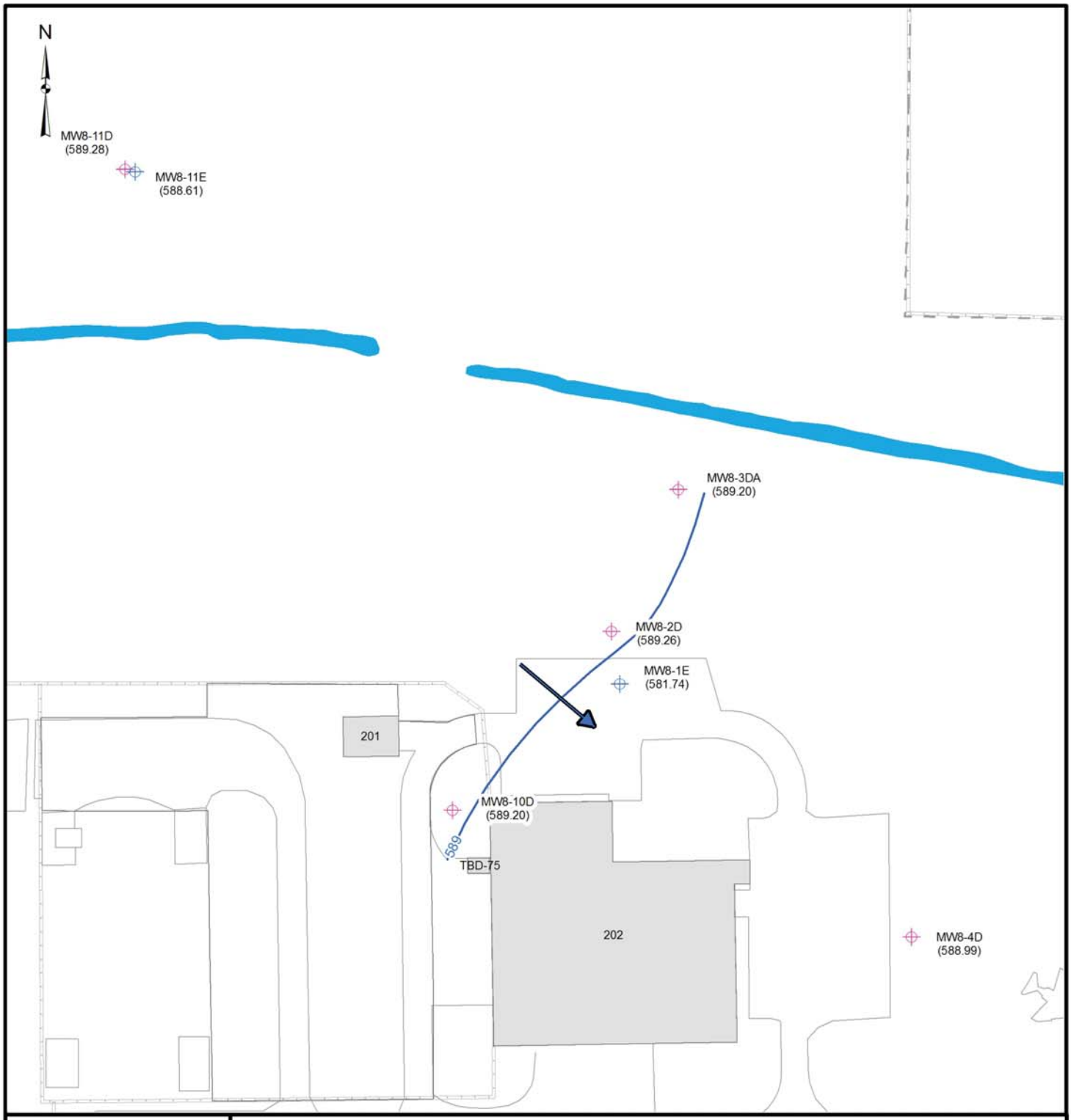

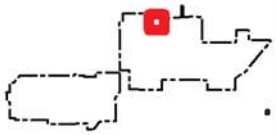

Shallow Bedrock Well

Deep Bedrock Well

Groundwater Elevation Contour (ft)

Inferred Groundwater Flow Direction

0 80 160

Feet

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Figure 3-13
Shallow Bedrock Groundwater
Contour Map (June 2014)
IRP Site 8

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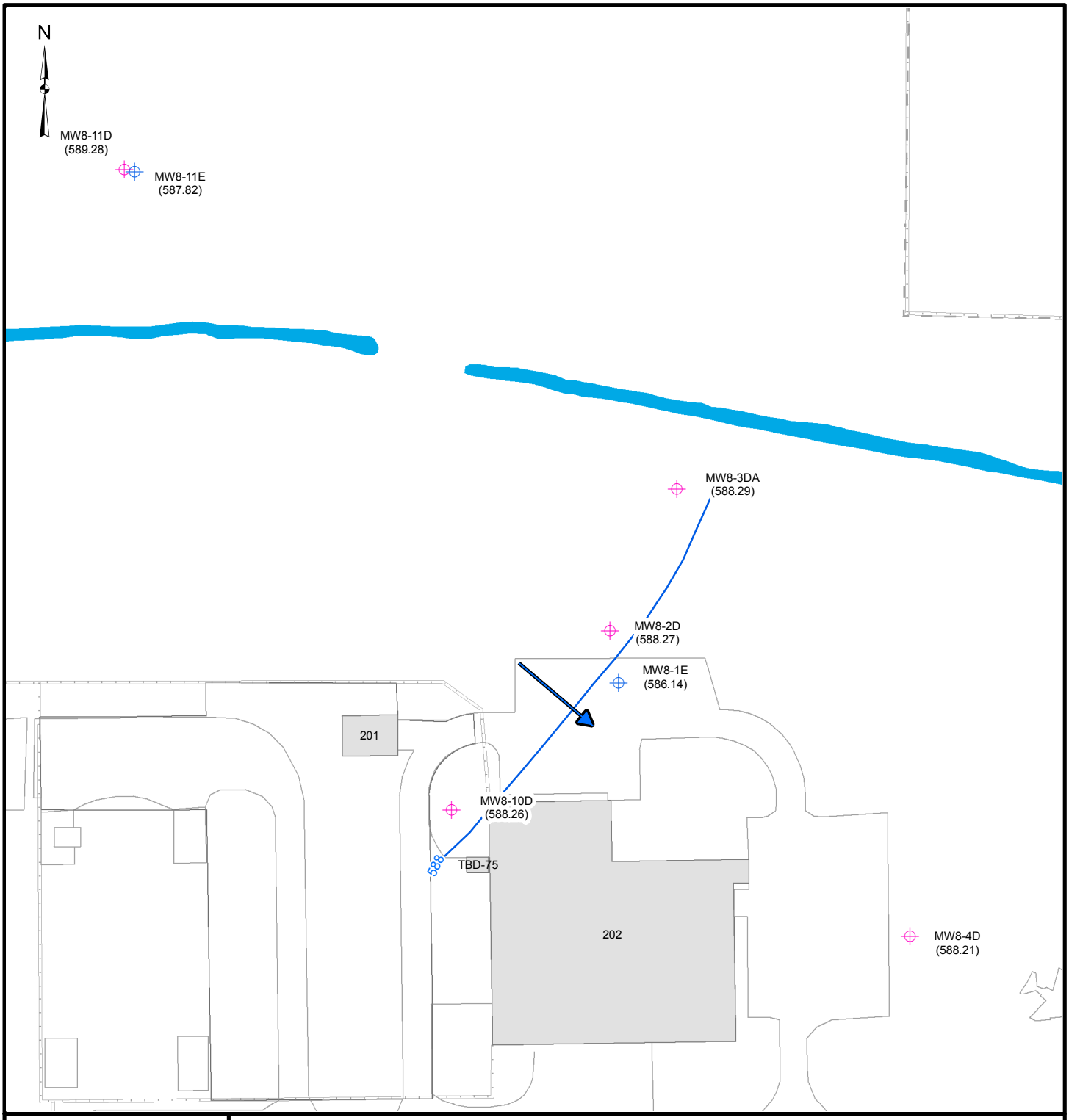

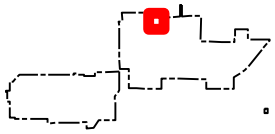

Shallow Bedrock Well

Deep Bedrock Well

Groundwater Elevation Contour (ft)

Inferred Groundwater Flow Direction

0 80 160

Feet

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Installation-Wide Groundwater Monitoring Program
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Niagara Falls, New York

FIGURE 3-14
Shallow Bedrock Groundwater
Contour Map (October 2014)
IRP Site 8

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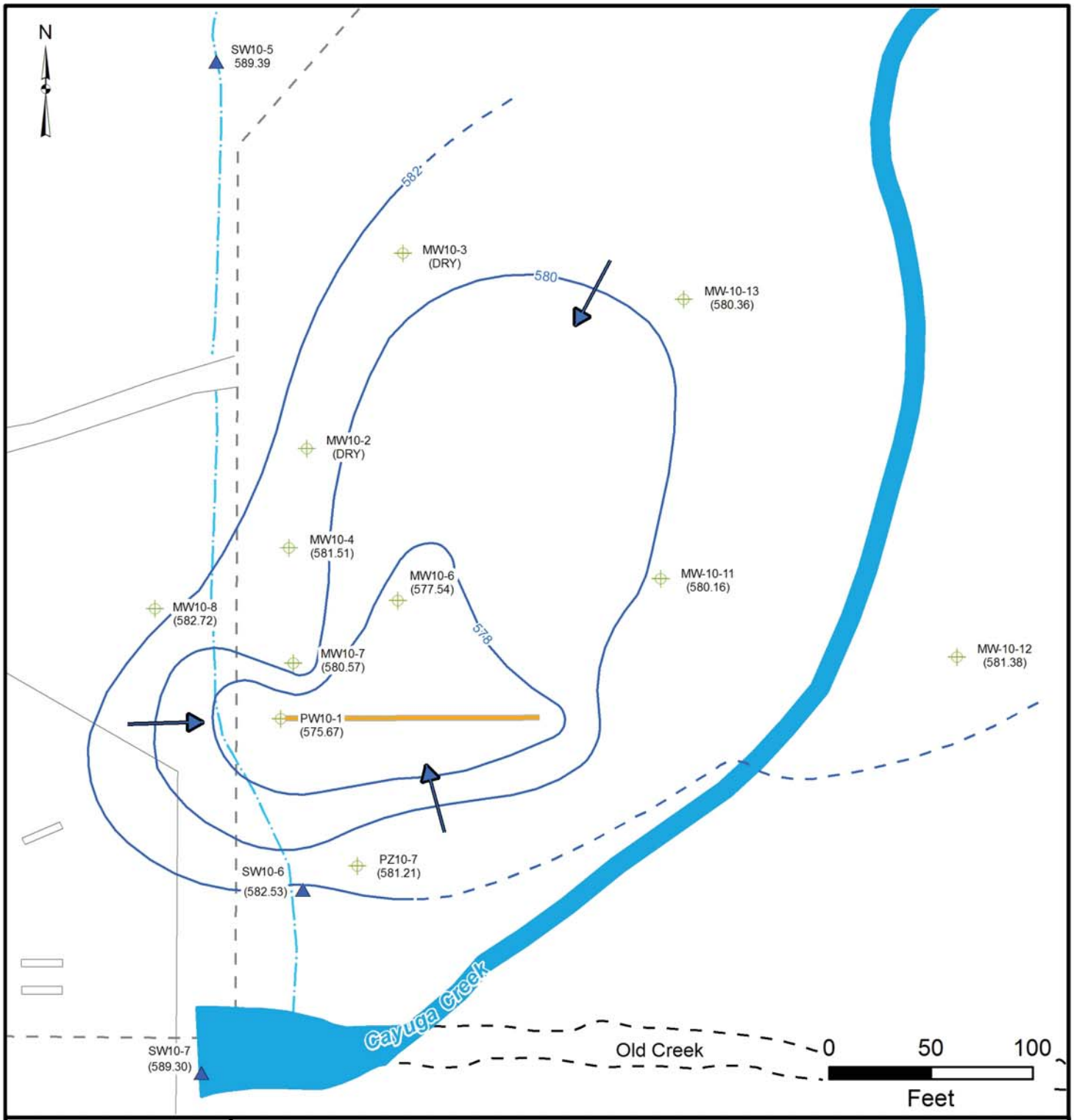

Overburden Well/Piezometer
Surface Water Sample and Elevation Measurement
Groundwater Collection Trench
Groundwater Elevation Contour (Dashed Where Inferred)
Inferred Groundwater Flow Direction

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Niagara Falls, New York

Figure 3-15
Overburden Groundwater Contour Map (June 2014)
IRP Site 10

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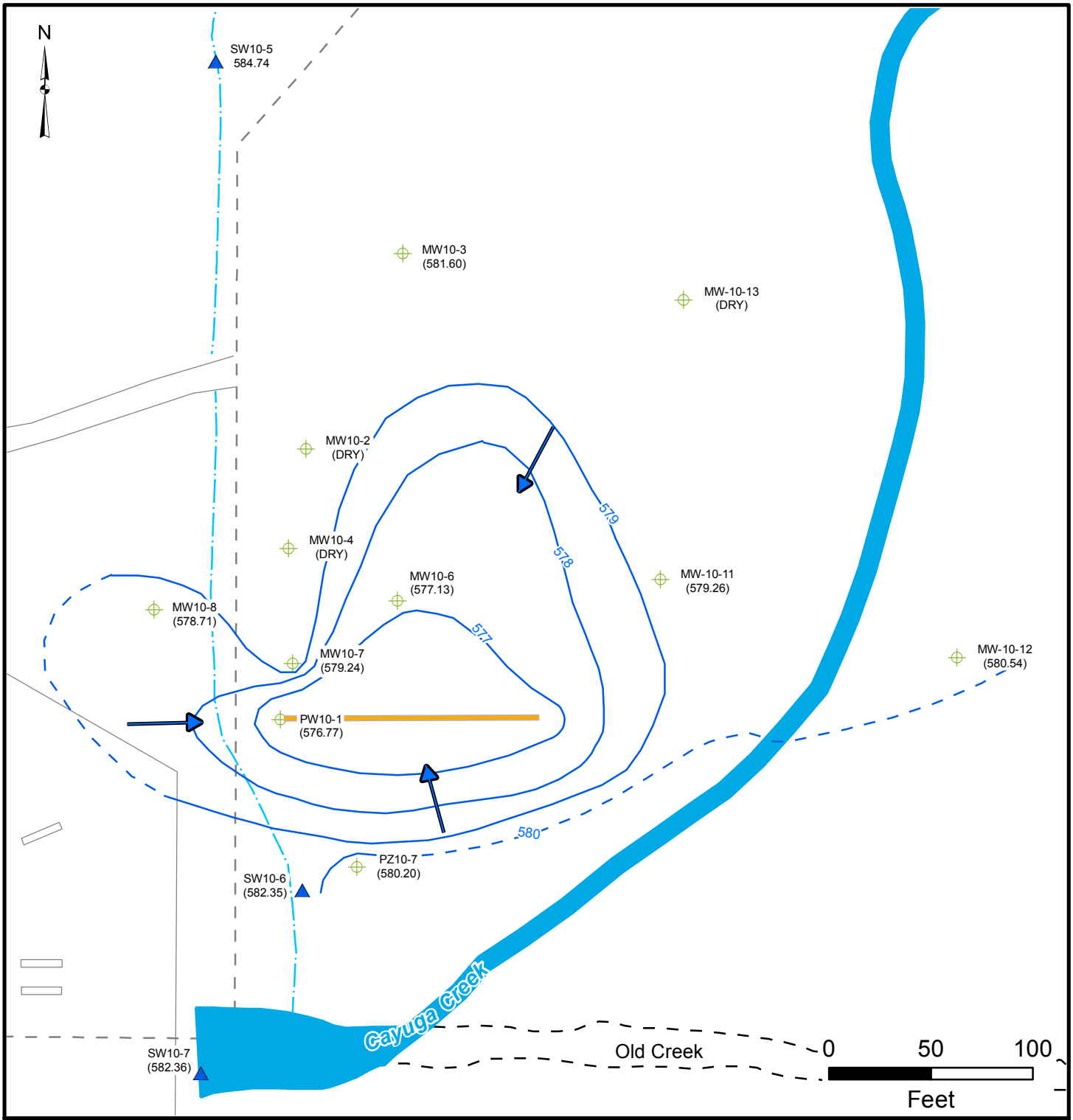

Overburden Well/Piezometer
Surface Water Sample and Elevation Measurement
Groundwater Collection Trench
Groundwater Elevation Contour (Dashed Where Inferred)
Inferred Groundwater Flow Direction

EA®	2014 Annual Comprehensive Sampling/Monitoring Report Installation-Wide Groundwater Monitoring Program Niagara Falls Air Reserve Station Niagara Falls, New York	FIGURE 3-16 Overburden Groundwater Contour Map (October 2014) IRP Site 10

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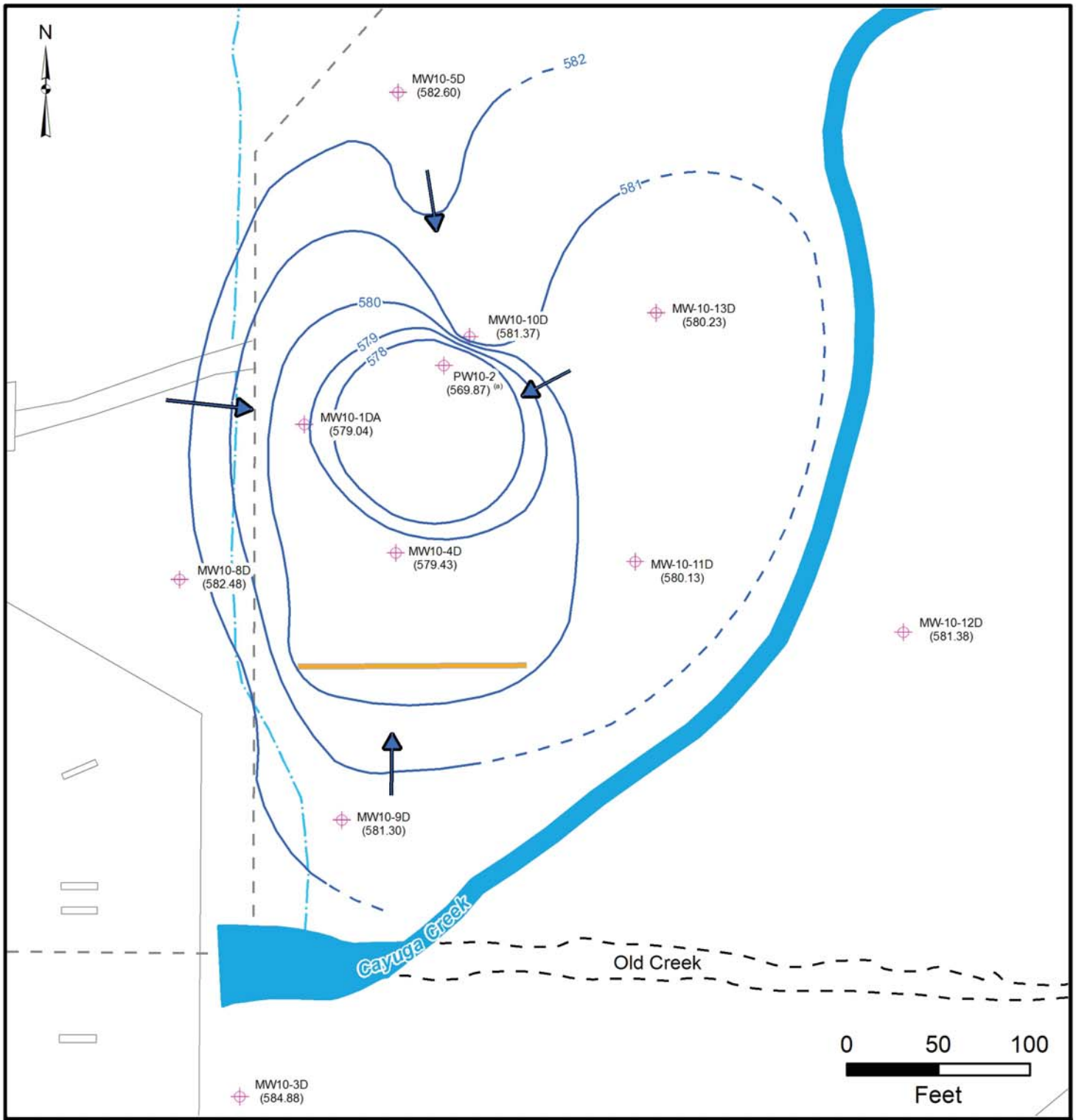

Shallow Bedrock Well

Groundwater Collection Trench

Groundwater Elevation Contours (ft)
(Dashed Where Inferred)

Inferred Groundwater Flow Direction

(a) Mid-point elevation used for groundwater elevation

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Figure 3-17
Shallow Bedrock Groundwater
Contour Map (June 2014)
IRP Site 10

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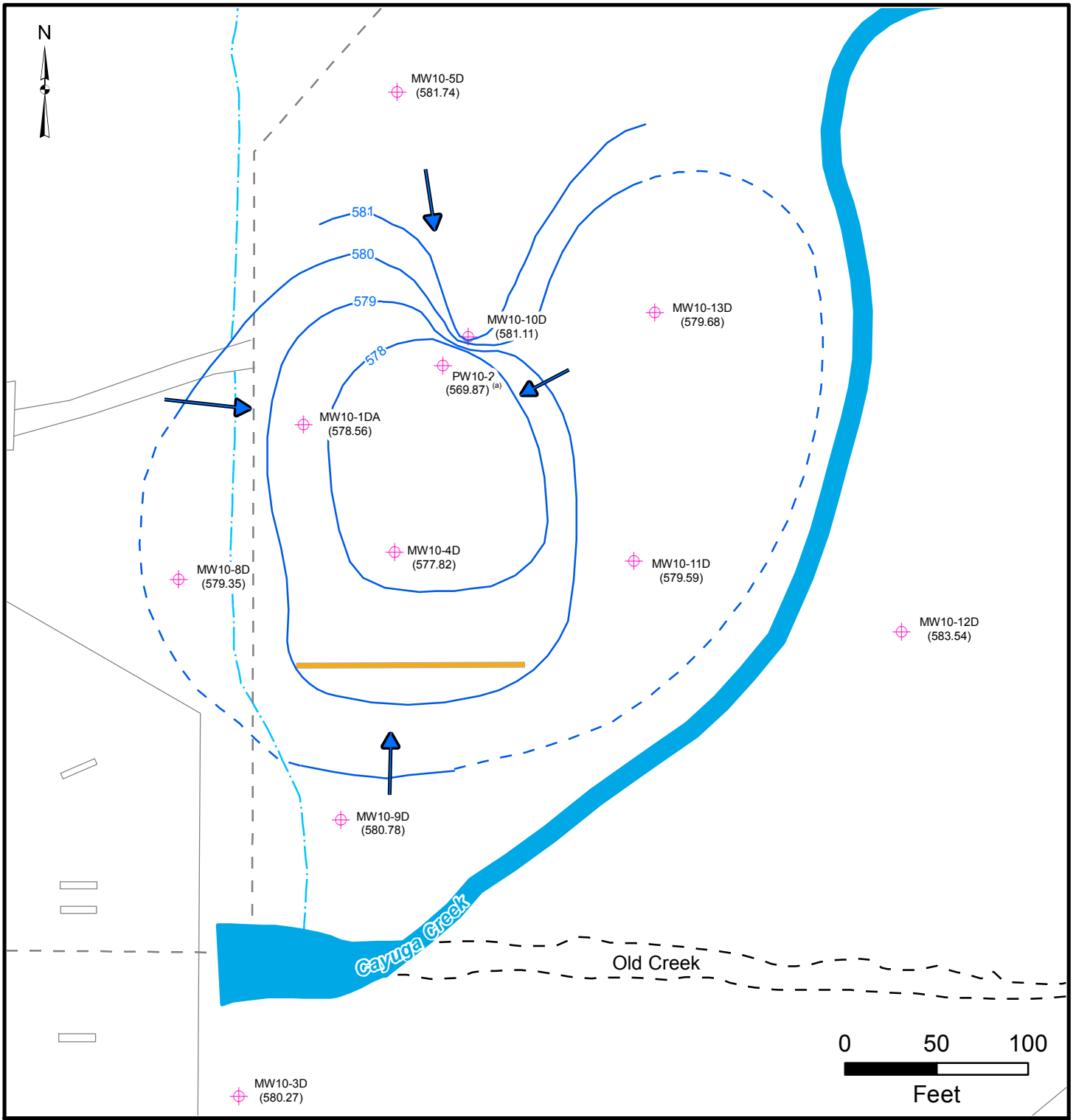

Shallow Bedrock Well

Groundwater Collection Trench

Groundwater Elevation Contours (ft)
(Dashed Where Inferred)

Inferred Groundwater Flow Direction

(a) Mid-point elevation used for groundwater elevation

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FIGURE 3-18
Shallow Bedrock Groundwater
Contour Map (October 2014)
IRP Site 10

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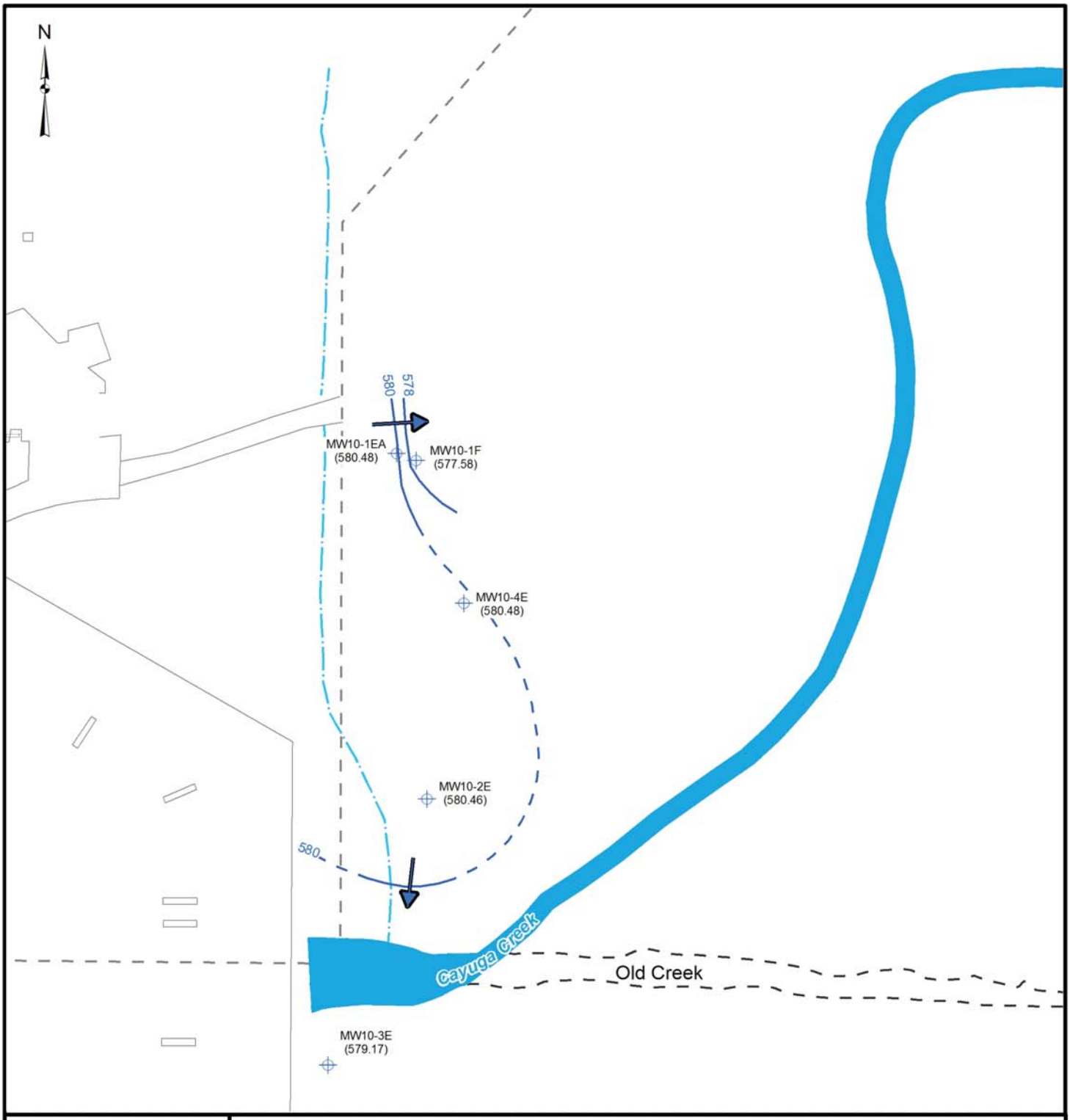

Deep Bedrock Well

Groundwater Elevation Contour (ft)
(Dashed Where Inferred)

Inferred Groundwater Flow Direction

0 50 100

Feet

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Installation-Wide Groundwater Monitoring Program
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Niagara Falls, New York

Figure 3-19
Deep Bedrock Groundwater
Contour Map (June 2014)
IRP Site 10

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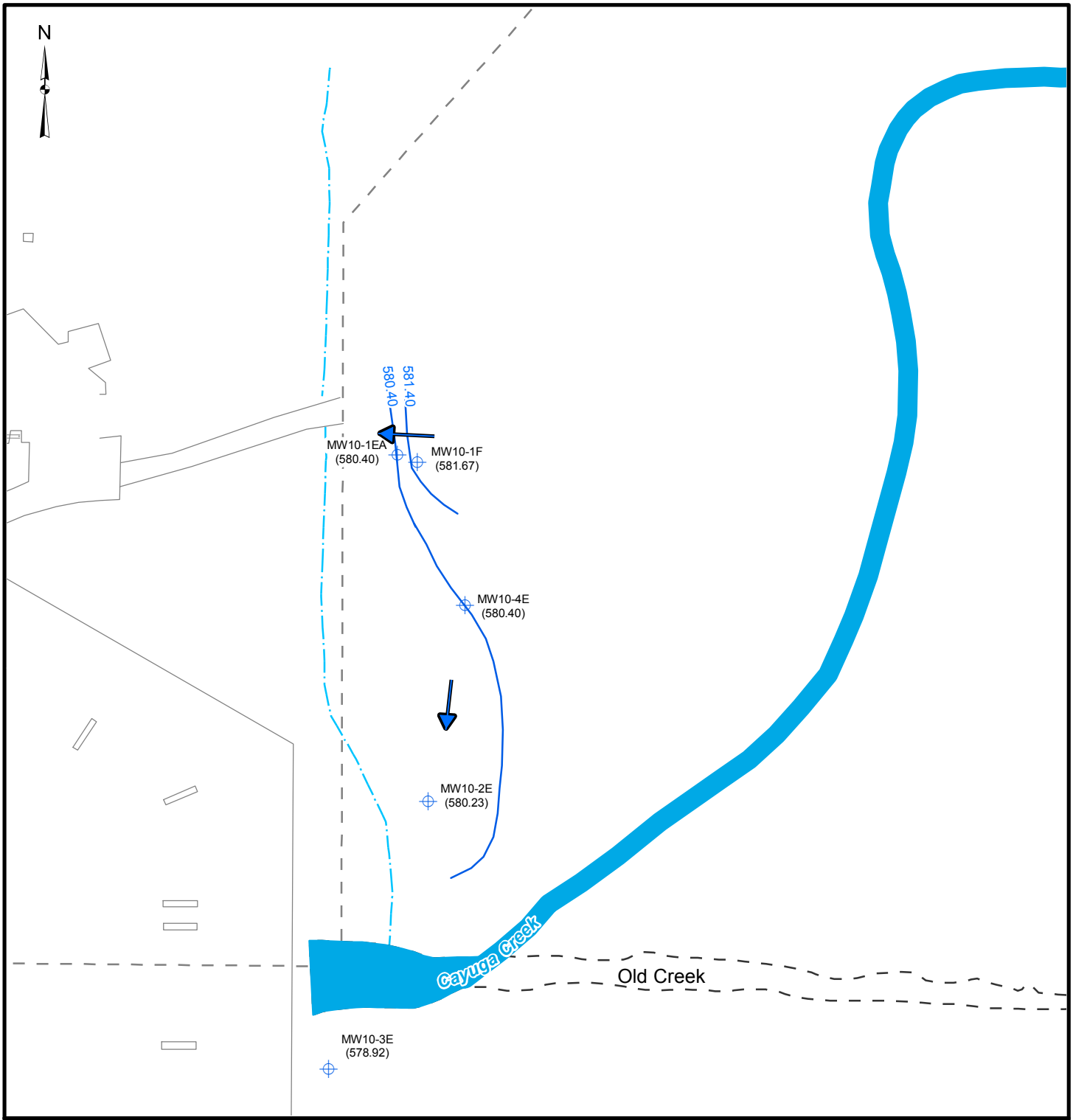

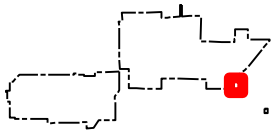

Deep Bedrock Well

Groundwater Elevation Contour (ft)
(Dashed Where Inferred)

Inferred Groundwater Flow Direction

0 50 100

Feet

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Installation-Wide Groundwater Monitoring Program
Niagara Falls Air Reserve Station
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FIGURE 3-20
Deep Bedrock Groundwater
Contour Map (October 2014)
IRP Site 10

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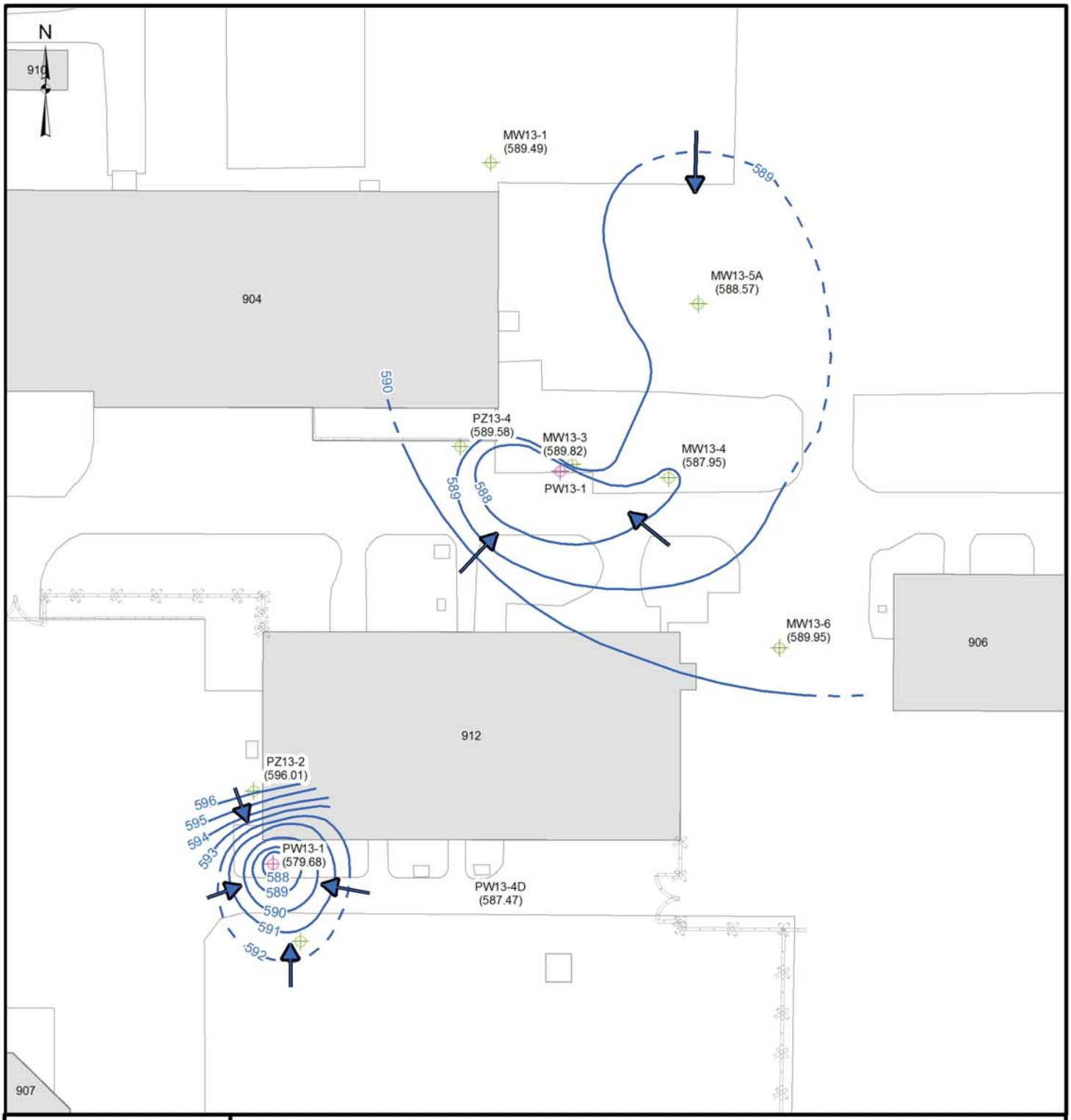

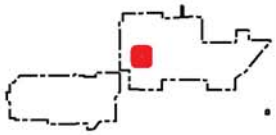

Overburden Well/Piezometer

Shallow Bedrock Pumping Well

Groundwater Elevation Contour (ft)
(Dashed Where Inferred)

Inferred Groundwater Flow Direction

0 50 100

Feet

2014 Annual Comprehensive Sampling/Monitoring Report
Installation-Wide Groundwater Monitoring Program
Niagara Falls Air Reserve Station
Niagara Falls, New York

Figure 3-21
Overburden Groundwater
Contour Map (June 2014)
IRP Site 13

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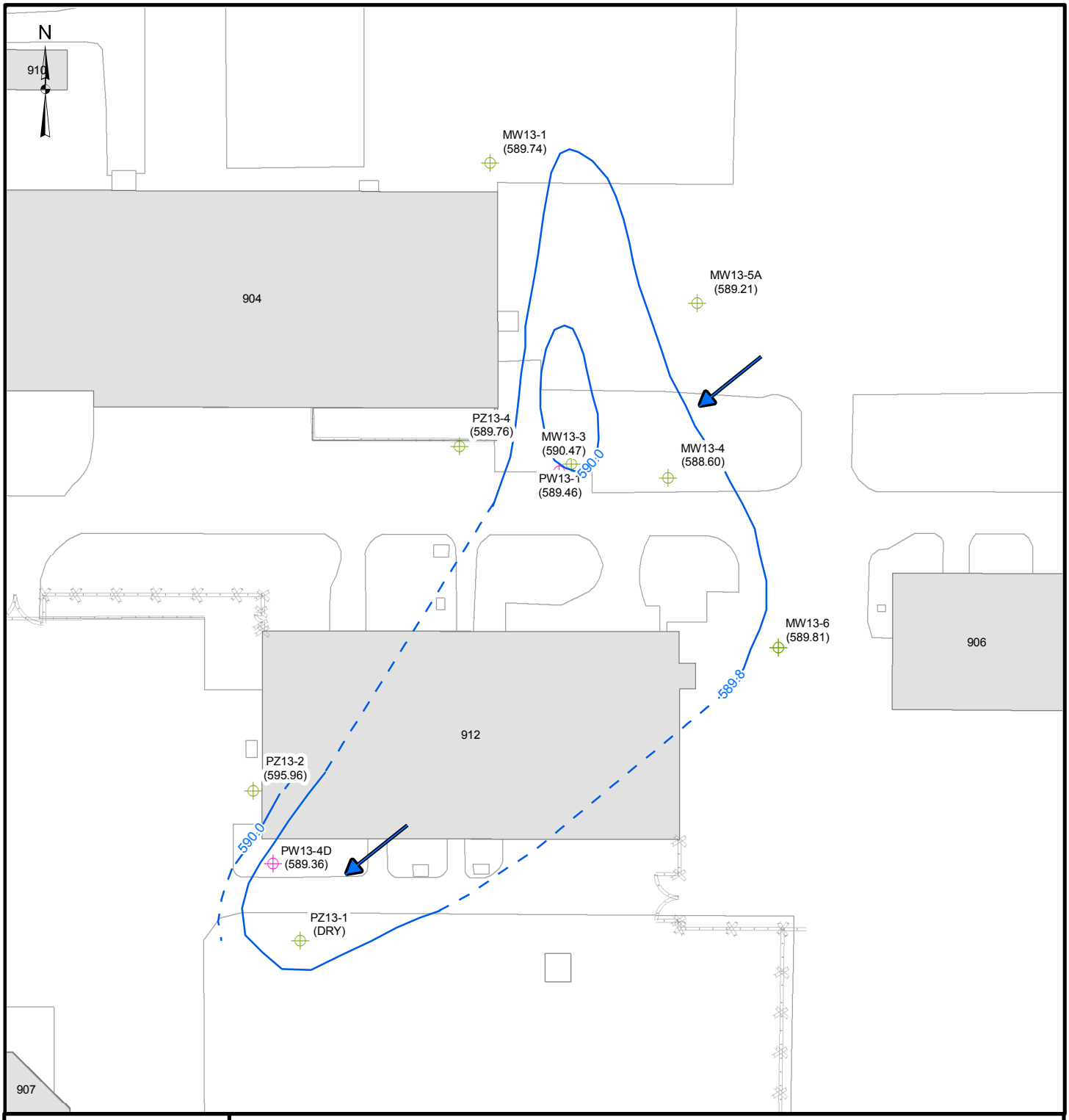

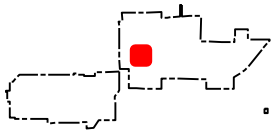

Overburden Well/Piezometer

Shallow Bedrock Pumping Well

Groundwater Elevation Contour (ft)
(Dashed Where Inferred)

Inferred Groundwater Flow Direction

0 50 100

Feet

2014 Annual Comprehensive Sampling/Monitoring Report
Installation-Wide Groundwater Monitoring Program
Niagara Falls Air Reserve Station
Niagara Falls, New York

FIGURE 3-22
Overburden Groundwater
Contour Map (October 2014)
IRP Site 13

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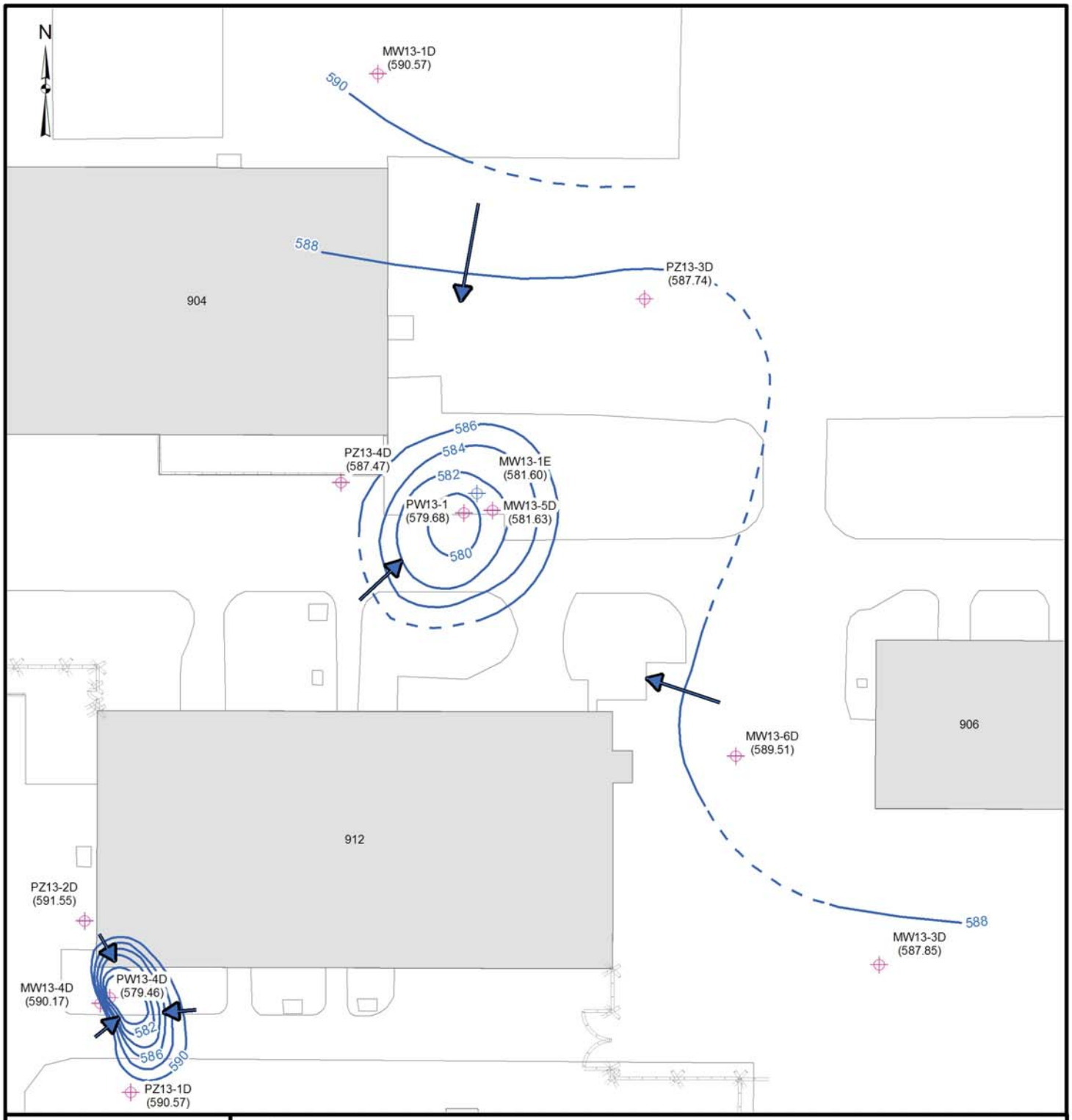

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Figure 3-23
Shallow Bedrock Groundwater
Contour Map (June 2014)
IRP Site 13

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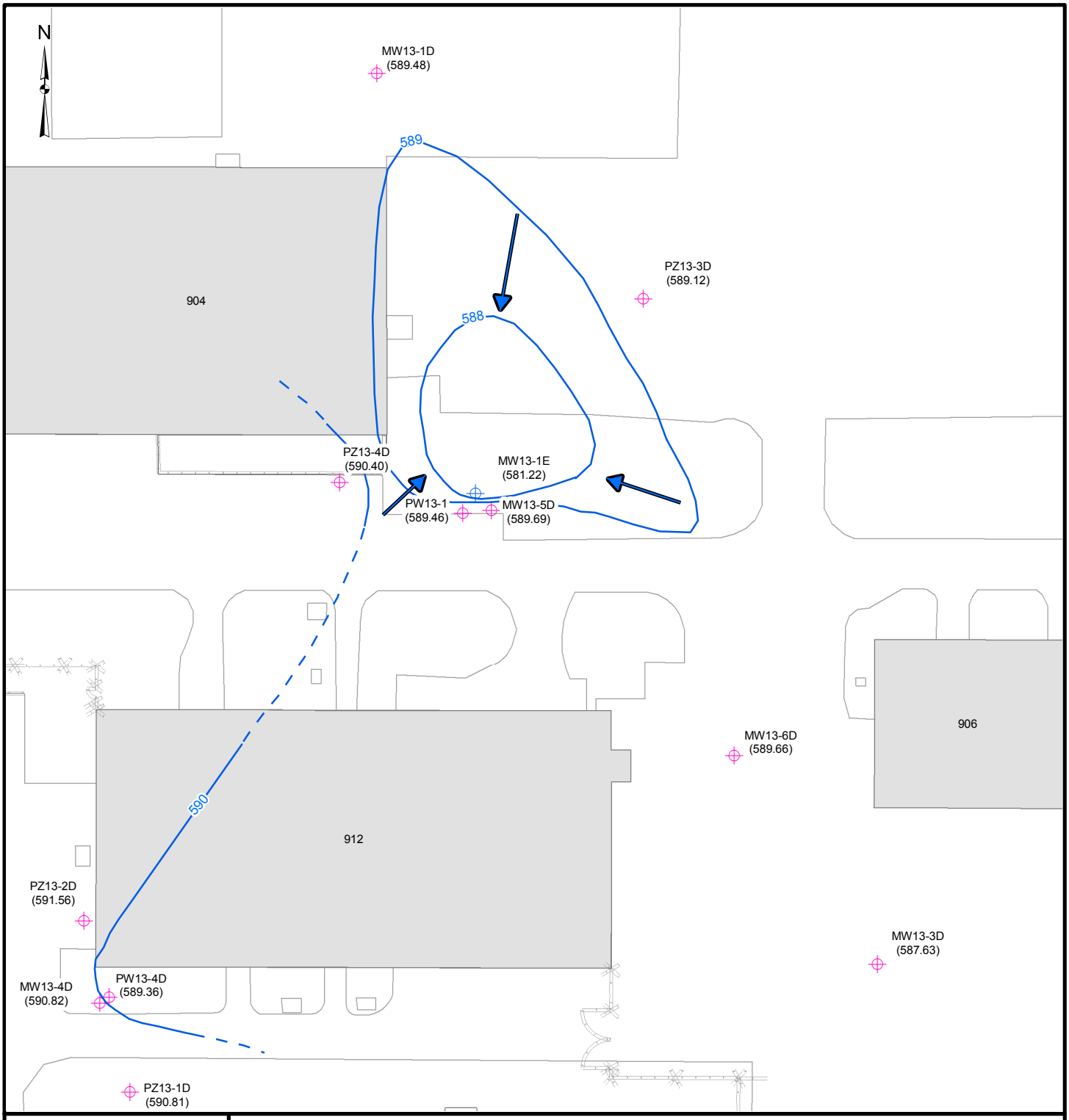

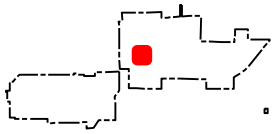

Shallow Bedrock Well/Piezometer

Deep Bedrock Well

Groundwater Elevation Contour (ft)
(dashed where inferred)

Inferred Groundwater Flow Direction

0 50 100

Feet

2014 Annual Comprehensive Sampling/Monitoring Report
Installation-Wide Groundwater Monitoring Program
Niagara Falls Air Reserve Station
Niagara Falls, New York

FIGURE 3-24
Shallow Bedrock Groundwater
Contour Map (October 2014)
IRP Site 13

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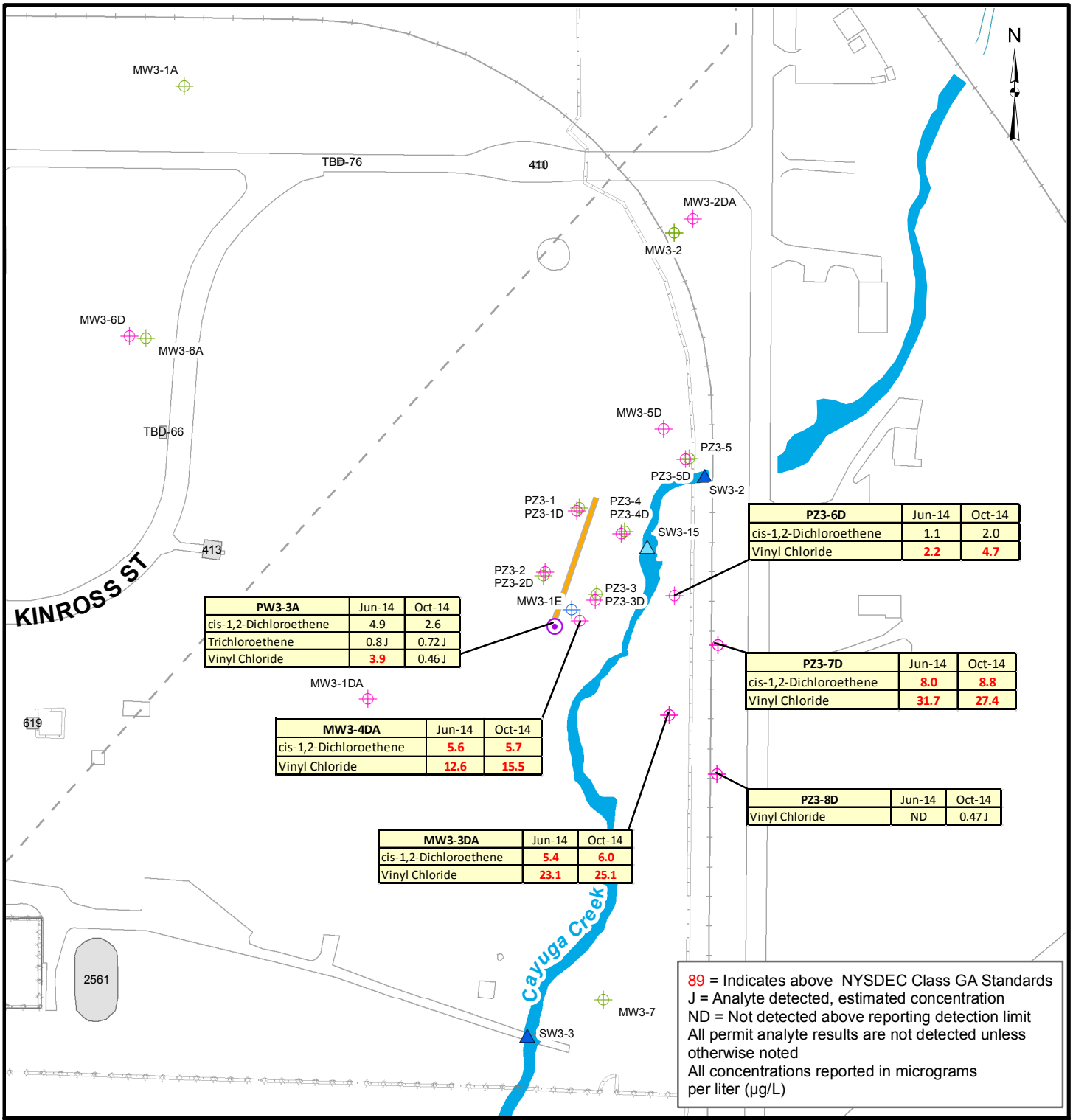

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Installation-Wide Groundwater Monitoring Program
Niagara Falls Air Reserve Station
Niagara Falls, New York

FIGURE 3-25
Part 373 Permit Analyte Detections
(June 2014 & October 2014)
IRP Site 3

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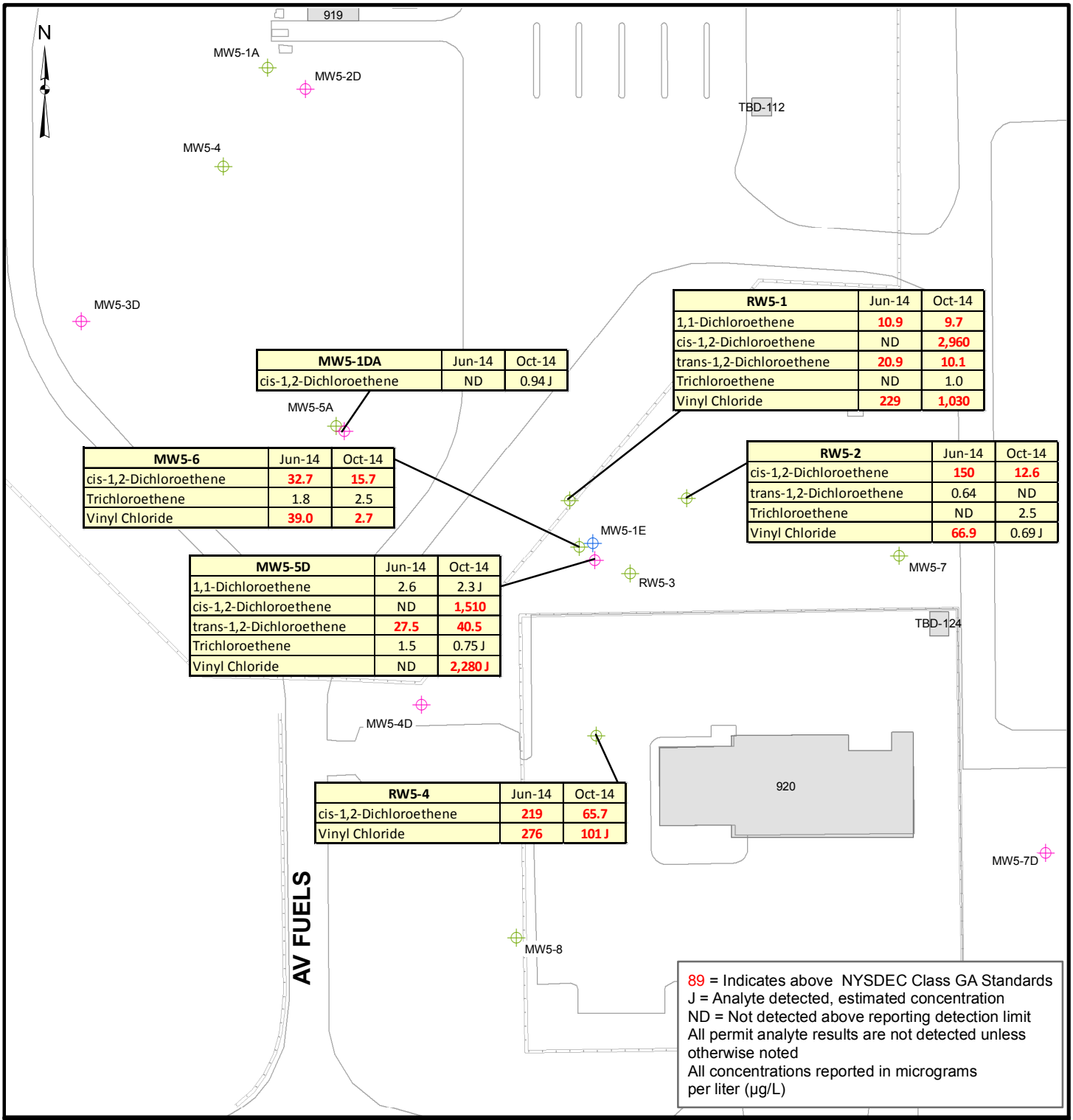

MW5-1DA	Jun-14	Oct-14
cis-1,2-Dichloroethene	ND	0.94 J

RW5-1	Jun-14	Oct-14
1,1-Dichloroethene	10.9	9.7
cis-1,2-Dichloroethene	ND	2,960
trans-1,2-Dichloroethene	20.9	10.1
Trichloroethene	ND	1.0
Vinyl Chloride	229	1,030

MW5-6	Jun-14	Oct-14
cis-1,2-Dichloroethene	32.7	15.7
Trichloroethene	1.8	2.5
Vinyl Chloride	39.0	2.7

RW5-2	Jun-14	Oct-14
cis-1,2-Dichloroethene	150	12.6
trans-1,2-Dichloroethene	0.64	ND
Trichloroethene	ND	2.5
Vinyl Chloride	66.9	0.69 J

MW5-5D	Jun-14	Oct-14
1,1-Dichloroethene	2.6	2.3 J
cis-1,2-Dichloroethene	ND	1,510
trans-1,2-Dichloroethene	27.5	40.5
Trichloroethene	1.5	0.75 J
Vinyl Chloride	ND	2,280 J

RW5-4	Jun-14	Oct-14
cis-1,2-Dichloroethene	219	65.7
Vinyl Chloride	276	101 J

Shallow Bedrock Well

Deep Bedrock Well

Overburden Well

0 50 100

Feet

2014 Annual Comprehensive Sampling/Monitoring Report
Installation-Wide Groundwater Monitoring Program
Niagara Falls Air Reserve Station
Niagara Falls, New York

FIGURE 3-26
Part 373 Permit Analyte Detections
(June 2014 & October 2014)
IRP Site 5

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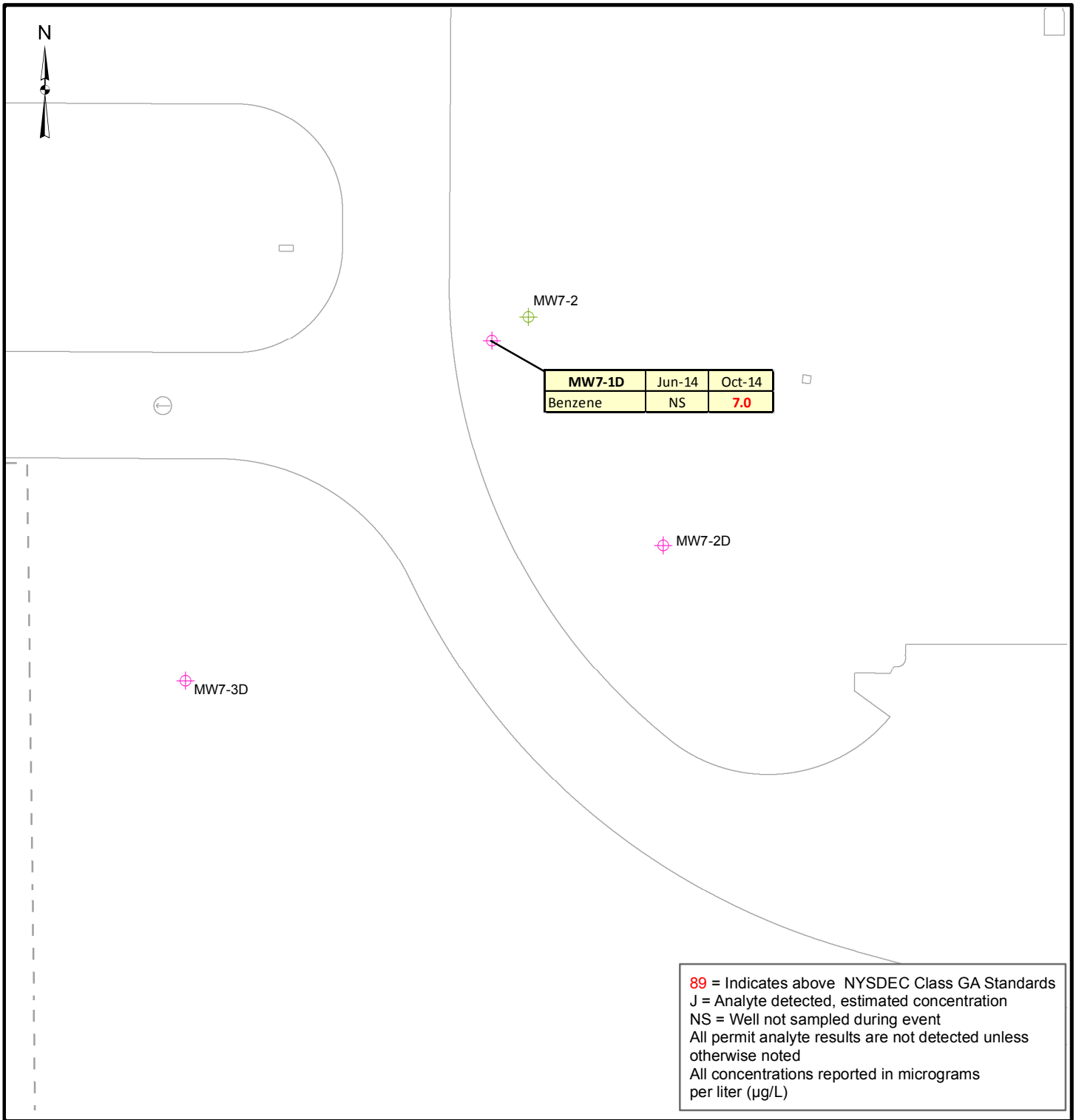

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Installation-Wide Groundwater Monitoring Program
Niagara Falls Air Reserve Station
Niagara Falls, New York

FIGURE 3-27
Part 373 Permit Analyte Detections
(June 2014 & October 2014)
IRP Site 7

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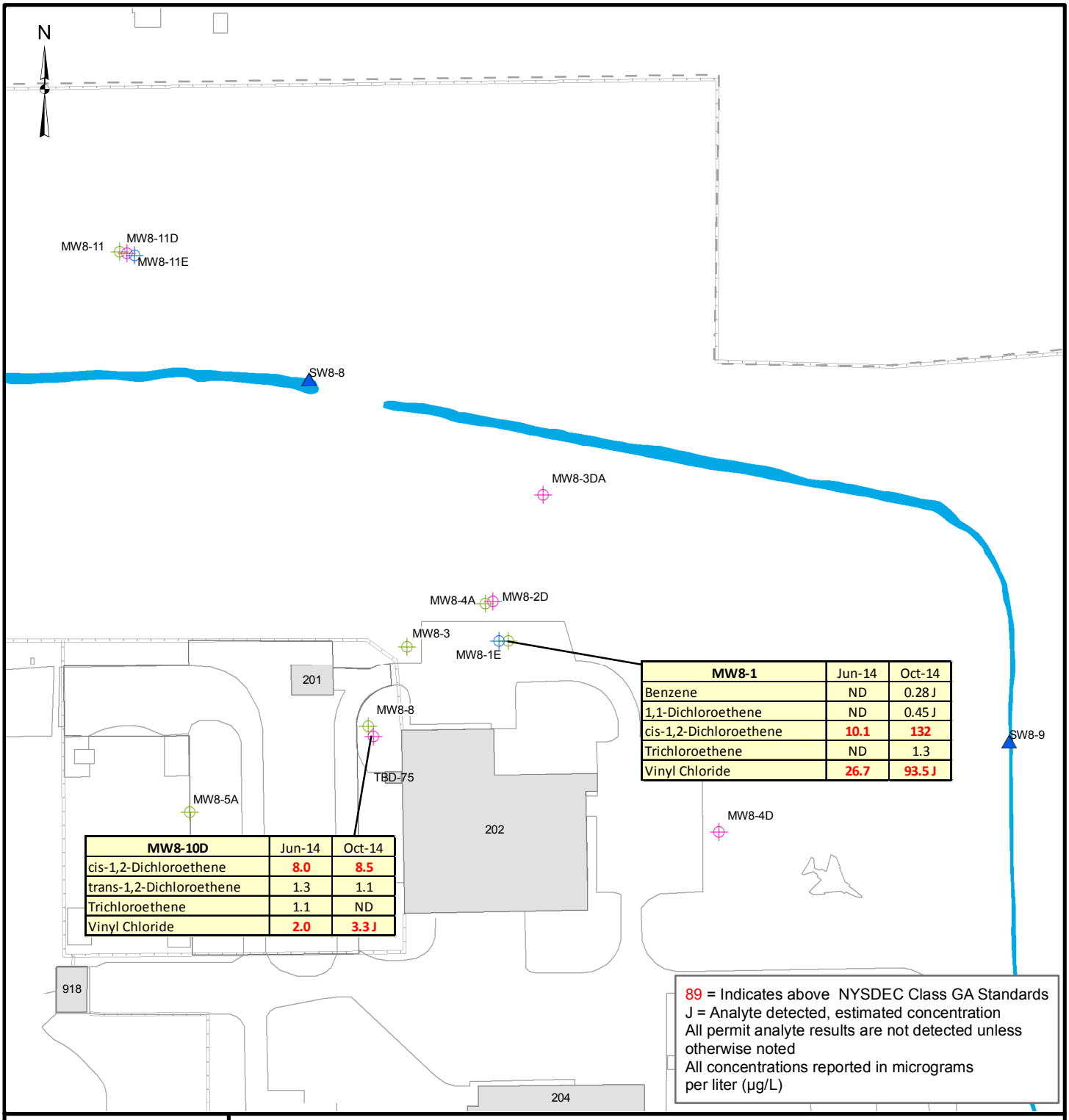

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Niagara Falls Air Reserve Station
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FIGURE 3-28
Part 373 Permit Analyte Detections
(June 2014 & October 2014)
IRP Site 8

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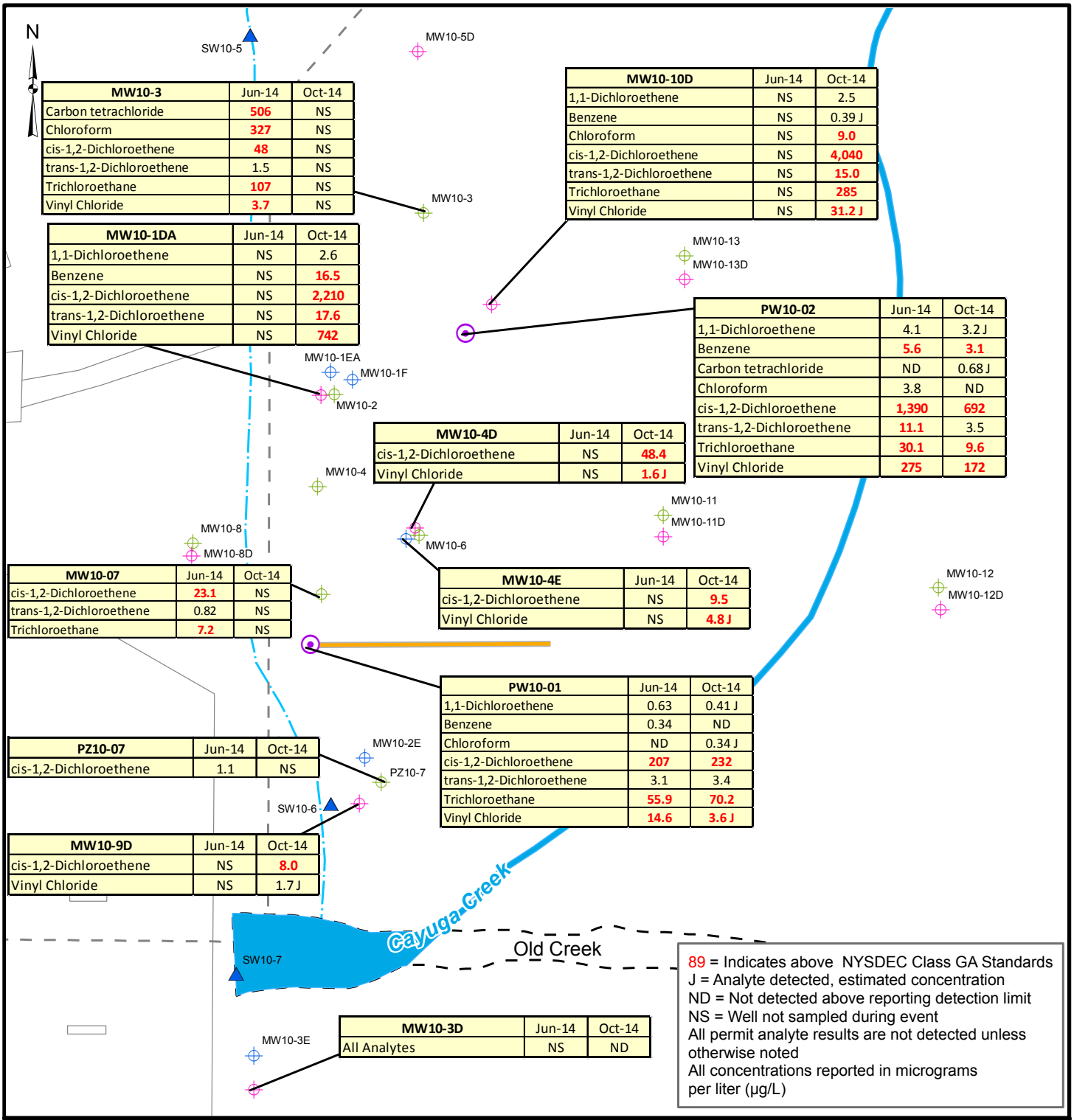


MW10-3	Jun-14	Oct-14
Carbon tetrachloride	506	NS
Chloroform	327	NS
cis-1,2-Dichloroethene	48	NS
trans-1,2-Dichloroethene	1.5	NS
Trichloroethane	107	NS
Vinyl Chloride	3.7	NS

MW10-10D	Jun-14	Oct-14
1,1-Dichloroethene	NS	2.5
Benzene	NS	0.39 J
Chloroform	NS	9.0
cis-1,2-Dichloroethene	NS	4,040
trans-1,2-Dichloroethene	NS	15.0
Trichloroethane	NS	285
Vinyl Chloride	NS	31.2 J

MW10-1DA	Jun-14	Oct-14
1,1-Dichloroethene	NS	2.6
Benzene	NS	16.5
cis-1,2-Dichloroethene	NS	2,210
trans-1,2-Dichloroethene	NS	17.6
Vinyl Chloride	NS	742

PW10-02	Jun-14	Oct-14
1,1-Dichloroethene	4.1	3.2 J
Benzene	5.6	3.1
Carbon tetrachloride	ND	0.68 J
Chloroform	3.8	ND
cis-1,2-Dichloroethene	1,390	692
trans-1,2-Dichloroethene	11.1	3.5
Trichloroethane	30.1	9.6
Vinyl Chloride	275	172

MW10-4D	Jun-14	Oct-14
cis-1,2-Dichloroethene	NS	48.4
Vinyl Chloride	NS	1.6 J

MW10-07	Jun-14	Oct-14
cis-1,2-Dichloroethene	23.1	NS
trans-1,2-Dichloroethene	0.82	NS
Trichloroethane	7.2	NS

MW10-4E	Jun-14	Oct-14
cis-1,2-Dichloroethene	NS	9.5
Vinyl Chloride	NS	4.8 J

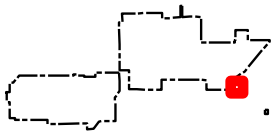
PW10-01	Jun-14	Oct-14
1,1-Dichloroethene	0.63	0.41 J
Benzene	0.34	ND
Chloroform	ND	0.34 J
cis-1,2-Dichloroethene	207	232
trans-1,2-Dichloroethene	3.1	3.4
Trichloroethane	55.9	70.2
Vinyl Chloride	14.6	3.6 J

PZ10-07	Jun-14	Oct-14
cis-1,2-Dichloroethene	1.1	NS

MW10-9D	Jun-14	Oct-14
cis-1,2-Dichloroethene	NS	8.0
Vinyl Chloride	NS	1.7 J

MW10-3D	Jun-14	Oct-14
All Analytes	NS	ND

89 = Indicates above NYSDEC Class GA Standards
J = Analyte detected, estimated concentration
ND = Not detected above reporting detection limit
NS = Well not sampled during event
All permit analyte results are not detected unless otherwise noted
All concentrations reported in micrograms per liter (µg/L)



Overburden Well
Shallow Bedrock Well
Deep Bedrock Well
Pumping Well
Surface Water Sample
Groundwater Collection Trench

0 50 100
Feet

2014 Annual Comprehensive Sampling/Monitoring Report
Installation-Wide Groundwater Monitoring Program
Niagara Falls Air Reserve Station
Niagara Falls, New York

FIGURE 3-29
Part 373 Permit Analyte Detections
(June 2014 & October 2014)
IRP Site 10

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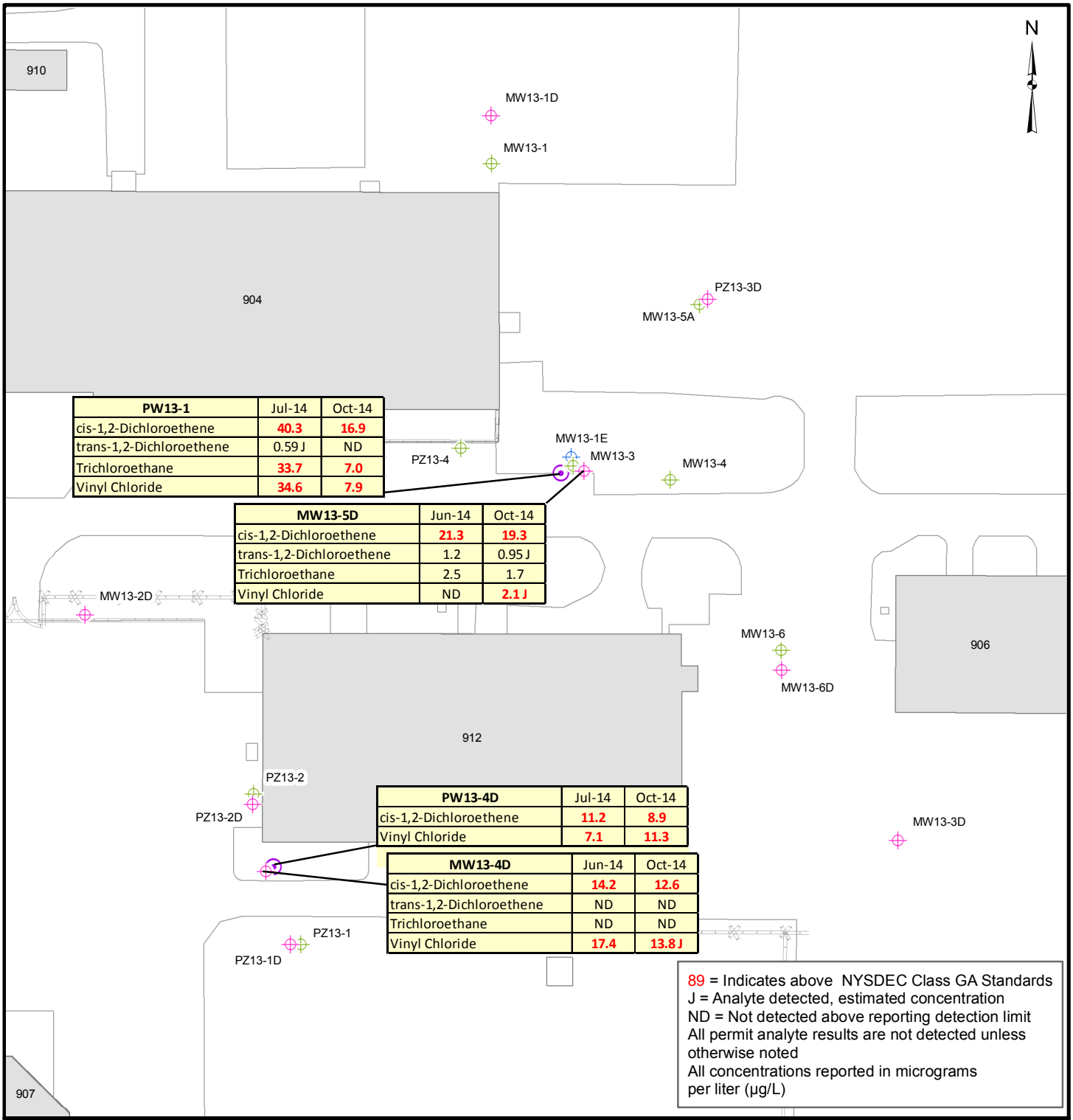

PW13-1	Jul-14	Oct-14
cis-1,2-Dichloroethene	40.3	16.9
trans-1,2-Dichloroethene	0.59 J	ND
Trichloroethane	33.7	7.0
Vinyl Chloride	34.6	7.9

MW13-5D	Jun-14	Oct-14
cis-1,2-Dichloroethene	21.3	19.3
trans-1,2-Dichloroethene	1.2	0.95 J
Trichloroethane	2.5	1.7
Vinyl Chloride	ND	2.1 J

PW13-4D	Jul-14	Oct-14
cis-1,2-Dichloroethene	11.2	8.9
Vinyl Chloride	7.1	11.3

MW13-4D	Jun-14	Oct-14
cis-1,2-Dichloroethene	14.2	12.6
trans-1,2-Dichloroethene	ND	ND
Trichloroethane	ND	ND
Vinyl Chloride	17.4	13.8 J

NOTE: June samples form PW13-1 and PW13-4D were composited. Results from July monthly sampling provided for comparison.

2014 Annual Comprehensive Sampling/Monitoring Report
Installation-Wide Groundwater Monitoring Program
Niagara Falls Air Reserve Station
Niagara Falls, New York

FIGURE 3-30
Part 373 Permit Analyte Detections
(June 2014 & October 2014)
IRP Site 13

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TABLE 3-1
Summary of Site 3 Detected Groundwater Analytical Results
2014 Annual Comprehensive Sampling/Monitoring Report
Niagara Falls Air Reserve Station, New York

Analyte	Screening Criteria [a]	Background		Site 3											
		MW8-11D	MW1-1DA	MW3-3DA	MW3-3DA	MW3-4DA	MW3-4DA	PW3-3A	PW3-3A	PZ3-6D	PZ3-6D	PZ3-7D	PZ3-7D	PZ3-8D	PZ3-8D
		6/27/2014	10/23/2014	6/27/2014	10/23/2014	6/27/2014	10/23/2014	6/27/2014	10/23/2014	6/27/2014	10/23/2014	6/27/2014	10/23/2014	6/27/2014	10/22/2013
Part 373 Permit Volatile Organic Compounds Detected by Method SW8260B (µg/L)[b]															
CIS-1,2-DICHLOROETHENE	5	1 U	1 U	**5.4**	**6.0**	**5.6**	**5.7**	**4.9**	**2.6**	**1.1**	**2.0**	**8.0**	**8.8**	1 U	1 U
TRICHLOROETHENE	5	1 U	1 U	1 U	1 U	1 U	1 U	**0.8 J**	**0.72 J**	1 U	1 U	1 U	1 U	1 U	1 U
VINYL CHLORIDE	2	1 U	1 U	**23.1**	**25.1**	**12.6**	**15.5**	**3.9**	**0.46 J**	**2.2**	**4.7**	**31.7**	**27.4**	1 U	**0.47 J**

(a) New York State Department of Environmental Conservation, Technical and Operational Guidance Series Memorandum #1.1.1: Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 1998 (with updates), Class GA Groundwater Standards and Guidance Values.
(b) No other compounds were detected.

NOTE: µg/L = Micrograms per liter.

U = Analyte was analyzed for but not detected, method reporting limit provided

J = Analyte detected, estimated concentration

Shaded cells exceed the screening value.

Bold values denote detections.

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TABLE 3-2
Summary of Site 5 Detected Groundwater Analytical Results
2014 Annual Comprehensive Sampling/Monitoring Report
Niagara Falls Air Reserve Station, New York

Analyte	Screening Criteria [(a)]	Background		Site 5														
		MW8-11D	MW1-1DA	MW5-1DA	MW5-1DA	MW5-5D	MW5-5D	MW5-5D/Q	MW5-6	MW5-6	RW5-1	RW5-1	RW5-2	RW5-2	RW5-4	FD-140627-2	RW5-4
		6/27/2014	10/23/2014	6/27/2014	10/23/2014	6/27/2014	10/23/2014	10/23/2014	6/27/2014	10/23/2014	6/27/2014	10/23/2014	6/27/2014	10/23/2014	6/27/2014	6/27/2014	10/23/2014
Part 373 Permit Volatile Organic Compounds Detected by Method SW8260B (µg/L)																	
1,1-DICHLOROETHENE	5	1 U	1 U	1 U	1 U	**2.6**	**2.3 J**	1 UJ	1 U	1 U	**10.9**	**9.7**	1 U	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	5	1 U	0.5 U	0.5 U	**0.94 J**	1 U	**1,510**	**964**	**32.7**	**15.7**	1 U	**2,960**	**150**	**12.6**	**219**	**197**	**65.7**
TRANS-1,2-DICHLOROETHENE	5	1 U	1 U	1 U	1 U	**27.5**	**40.5**	**33.1**	1 U	1 U	**20.9**	**10.1**	**0.64**	1 U	1 U	1 U	1 U
TRICHLOROETHENE	5	1 U	1 U	1 U	1 U	**1.5**	**0.75 J**	**0.98 J**	**1.8**	**2.5**	1 U	**1.0**	1 U	**2.5**	1 U	1 U	1 U
VINYL CHLORIDE	2	1 U	1 U	1 U	1 U	1 U	**2,280 J**	**1,250 J**	**39.0**	**2.7**	**229**	**1,030**	**66.9**	**0.69 J**	**276**	**239**	**101 J**
Other Volatile Organic Compounds Detected by Method SW8260B (µg/L)																	
ACETONE	50	10 UJ	10 UJ	10 UJ	10 UJ	**2.8 J**	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
CARBON DISULFIDE	60	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	**0.5 J**	5 U	5 U
CHLOROETHANE	5	2 U	2 U	2 U	2 U	2 U	2 U	2 UJ	**5.4**	**6.2**	2 U	2 U	2 U	2 UJ	2 U	2 U	**1.7 J**

(a) New York State Department of Environmental Conservation, Technical and Operational Guidance Series Memorandum #1.1.1: Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 1998 (with updates), Class GA Groundwater Standards and Guidance Values.

NOTE: µg/L = Micrograms per liter.

U = Analyte was analyzed for but not detected, method reporting limit provided

J = Analyte detected, estimated concentration

UJ = Estimated non-detect

FD Designates field duplicate sample.

Shaded cells exceed the screening value.

Bold values denote detections.

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TABLE 3-3
Summary of Site 7 Detected Groundwater Analytical Results
2014 Annual Comprehensive Sampling/Monitoring Report
Niagara Falls Air Reserve Station, New York

Analyte	Screening Criteria [(a)]	Background MW1-1DA 10/23/2014	Site 7 MW7-1D 10/23/2014
Part 373 Permit Volatile Organic Compounds Detected by Method SW8260B (µg/L)			
BENZENE	1	0.5 U	**7.0**

(a) New York State Department of Environmental Conservation, Technical and Operational Guidance Series Memorandum #1.1.1: Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 1998 (with updates), Class GA Groundwater Standards and Guidance Values.

NOTE: µg/L = Micrograms per liter.

U = Analyte was analyzed for but not detected, method reporting limit provided

Shaded cells exceed the screening value.

Bold values denote detections.

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TABLE 3-4
Summary of Site 8 Detected 2013 Groundwater Analytical Results
2014 Annual Comprehensive Sampling/Monitoring Report
Niagara Falls Air Reserve Station, New York

Analyte	Screening Criteria [(a)]	Background		Site 8				
		MW8-11D	MW1-1DA	MW8-1	FD-140627-01	MW8-1	MW8-10D	MW8-10D
		6/27/2014	10/23/2014	6/27/2014	6/27/2014	10/23/2014	6/27/2014	10/23/2014
Part 373 Permit Volatile Organic Compounds Detected by Method SW8260B (µg/L)								
BENZENE	1	0.5 U	0.5 U	1 U	1 U	**0.28 J**	1 U	1 U
1,1-DICHLOROETHENE	5	1 U	1 U	1 U	1 U	**0.45 J**	1 U	1 U
CIS-1,2-DICHLOROETHENE	5	0.5 U	0.5 U	**10.1**	**9.3**	**132**	**8.0**	**8.5**
TRANS-1,2-DICHLOROETHENE	5	1 U	1 U	1 U	1 U	1 U	**1.3**	**1.1**
TRICHLOROETHENE	5	1 U	1 U	1 U	1 U	**1.3**	**1.1**	1 U
VINYL CHLORIDE	2	1 U	1 U	**26.7**	**25.1**	**93.5 J**	**2.0**	**3.3 J**

(a) New York State Department of Environmental Conservation, Technical and Operational Guidance Series Memorandum #1.1.1: Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 1998 (with updates), Class GA Groundwater Standards and Guidance Values.

NOTE: µg/L = Micrograms per liter.

U = Analyte was analyzed for but not detected, method reporting limit provided

J = Analyte detected, estimated concentration

FD Designates field duplicate sample.

Shaded cells exceed the screening value.

Bold values denote detections.

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TABLE 3-5
Summary of Site 10 Detected Groundwater Analytical Results
2014 Annual Comprehensive Sampling/Monitoring Report
Niagara Falls Air Reserve Station, New York

Analyte	Screening Criteria [(a)]	Background		Site 10							
		MW8-11D	MW1-1DA	MW10-1DA	MW10-3	MW10-3D	MW10-4D	MW10-4E	MW10-07	MW10-9D	MW10-10D
		6/27/2014	10/23/2014	10/23/2014	6/27/2014	10/23/2014	10/23/2014	10/23/2014	6/27/2014	10/23/2014	10/23/2014
Part 373 Permit Volatile Organic Compounds by Method SW8260B (µg/L)											
1,1-DICHLOROETHENE	5	1 U	1 U	**2.6**	1 U	1 U	1 U	1 U	1 U	1 U	**2.5**
BENZENE	1	0.5 U	0.5 U	**16.5**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.39 J**
CARBON TETRACHLORIDE	5	1 U	1 U	1 U	**506**	1 U	1 U	1 U	1 U	1 U	**0.24 J**
CHLOROFORM	7	1 U	1 U	1 U	**327**	1 U	1 U	1 U	1 U	1 U	**9.0**
CIS-1,2-DICHLOROETHENE	5	0.5 U	0.5 U	**2,210**	**48**	0.5 U	**48.4**	**9.5**	**23.1**	**8.0**	**4,040**
TRANS-1,2-DICHLOROETHENE	5	1 U	1 U	**17.6**	**1.5**	1 U	1 U	1 U	**0.82**	1 U	**15.0**
TRICHLOROETHENE	5	1 U	1 U	1 U	**107**	1 U	1 U	1 U	**7.2**	1 U	**285**
VINYL CHLORIDE	2	1 U	1 U	**742**	**3.7**	1 U	**1.6 J**	**4.8 J**	1 U	**1.7 J**	**31.2 J**
Other Volatile Organic Compounds Detected by Method SW8260B (µg/L)											
ACETONE	50	10 UJ	10 UJ	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U	10 U
CARBON DISULFIDE	NS	5 U	5 U	5 U	**5.4**	5 U	5 U	5 UJ	5 U	5 U	5 UJ
CYCLOHEXANE	NS	5 U	5 U	5 U	**1.0 J**	5 U	5 U	5 U	5 U	5 U	5 U
1,2-DICHLOROETHENE	0.6	**1.4**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
METHYLCYCLOHEXANE	NS	5 U	5 U	5 U	**0.97 J**	5 U	5 U	5 U	5 U	5 U	5 U
METHYLENE CHLORIDE	5	2 U	2 U	2 U	**2.1**	2 U	2 U	2 U	2 U	2 U	**0.51 J**
TOLUENE	5	1 U	1 U	**0.53 J**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
XYLENE (TOTAL)	5	1 U	1 U	1 U	**0.43 J**	1 U	1 U	1 U	1 U	1 U	1 U

(a) New York State Department of Environmental Conservation, Technical and Operational Guidance Series Memorandum #1.1.1: Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 1998 (with updates), Class GA Groundwater Standards and Guidance Values.

NOTE: µg/L = Micrograms per liter.

U = Analyte was analyzed for but not detected, method reporting limit provided

J = Analyte detected, estimated concentration

UJ = Estimated non-detect

/Q Designates field duplicate sample.

Shaded cells exceed the screening value.

Bold values denote detections.

TABLE 3-5 (CONTINUED)
Summary of Site 10 Detected Groundwater Analytical Results
2014 Annual Comprehensive Sampling/Monitoring Report
Niagara Falls Air Reserve Station, New York

Analyte	Screening Criteria [(a)]	Background		Site 10					
		MW8-11D	MW1-1DA	MW10-10D/Q	PW10-01	PW10-01	PW10-02	PW10-02	PZ10-07
		6/27/2014	10/23/2014	10/23/2014	6/27/2014	10/23/2014	6/27/2014	10/23/2014	6/27/2014
Part 373 Permit Volatile Organic Compounds by Method SW8260B (µg/L)									
1,1-DICHLOROETHENE	5	1 U	1 U	**2.2 J**	**0.63**	**0.41 J**	**4.1**	**3.2 J**	1 U
BENZENE	1	0.5 U	0.5 U	**0.44 J**	**0.34**	0.5 U	**5.6**	**3.1**	0.5 U
CARBON TETRACHLORIDE	5	1 U	1 U	1 UJ	1 U	1 U	1 U	**0.68 J**	1 U
CHLOROFORM	7	1 U	1 U	**7.4**	1 U	**0.34 J**	**3.8**	1 U	1 U
CIS-1,2-DICHLOROETHENE	5	0.5 U	0.5 U	**3,010**	**207**	**232**	**1,390**	**692**	**1.1**
TRANS-1,2-DICHLOROETHENE	5	1 U	1 U	**21.9**	**3.1**	**3.4**	**11.1**	**3.5**	1 U
TRICHLOROETHENE	5	1 U	1 U	**306**	**55.9**	**70.2**	**30.1**	**9.6**	1 U
VINYL CHLORIDE	2	1 U	1 U	**27.7**	**14.6**	**3.6 J**	**275**	**172**	1 U
Other Volatile Organic Compounds Detected by Method SW8260B (µg/L)									
ACETONE	50	10 UJ	10 UJ	10 U	10 UJ	10 U	10 UJ	**4.3 J**	10 UJ
CARBON DISULFIDE	NS	5 U	5 U	**0.55 J**	**0.60 J**	5 U	5 U	5 UJ	5 UJ
CYCLOHEXANE	NS	5 U	5 U	5 U	5 U	5 U	**4.9 J**	**2.2 J**	5 U
1,2-DICHLOROETHENE	0.6	**1.4**	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U
METHYLCYCLOHEXANE	NS	5 U	5 U	5 U	5 U	5 U	**3.3 J**	**1.5 J**	5 U
METHYLENE CHLORIDE	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
TOLUENE	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
XYLENE (TOTAL)	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

(a) New York State Department of Environmental Conservation, Technical and Operational Guidance Series Memorandum #1.1.1: Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 1998 (with updates),

NOTE: µg/L = Micrograms per liter.

U = Analyte was analyzed for but not detected, method reporting limit provided

J = Analyte detected, estimated concentration

UJ = Estimated non-detect

/Q Designates field duplicate sample.

Shaded cells exceed the screening value.

Bold values denote detections.

TABLE 3-6
Summary of Site 13 Detected Groundwater Analytical Results
2014 Annual Comprehensive Sampling/Monitoring Report
Niagara Falls Air Reserve Station, New York

Analyte	Screening Criteria [a]	Background		Site 13						
		MW8-11D	MW1-1DA	MW13-4D	MW13-4D	MW13-5D	MW13-5D	PW13-EFFL [b]	PW13-1	PW13-4D
		6/27/2014	10/23/2014	6/27/2014	10/23/2014	6/27/2014	10/23/2014	6/25/2014	10/22/2014	10/222014
Part 373 Permit Volatile Organic Compounds Detected by Method SW8260B (µg/L)[c]										
BENZENE	1	0.5 U	0.5 U	**0.41 J**	**0.40 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CIS-1,2-DICHLOROETHENE	5	0.5 U	0.5 U	**14.2**	**12.6**	**21.3**	**19.3**	**15.5**	**16.9**	**8.9**
TRANS-1,2-DICHLOROETHENE	5	1 U	1 U	1 U	1 U	**1.2**	**0.95 J**	1 U	1 U	1 U
TRICHLOROETHENE	5	1 U	1 U	1 U	1 U	**2.5**	**1.7**	**10.0**	**7.0**	1 U
VINYL CHLORIDE	2	1 U	1 U	**17.4**	**13.8 J**	1 U	**2.1 J**	**12.4**	**7.9**	**11.3**

(a) New York State Department of Environmental Conservation, Technical and Operational Guidance Series Memorandum #1.1.1: Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 1998 (with updates), Class GA Groundwater Standards and Guidance Values.

(b) PW13-EFFL is a composite of grab samples from PW13-1 and PW13-4D.

(c) No other compounds were detected.

NOTE: µg/L = Micrograms per liter.

U = Analyte was analyzed for but not detected, method reporting limit provided

J = Analyte detected, estimated concentration

Shaded cells exceed the screening value.

Bold values denote detections.

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TABLE 3-7
Summary of Detected Surface Water Analytical Results - Basewide
2014 Annual Comprehensive Sampling/Monitoring Report
Niagara Falls Air Reserve Station, New York

Analyte	Screening Criteria [a]	Sample ID:	SW03-02	SW03-02	SW03-03	SW03-03	SW03-15	SW03-15	SW10-05	SW10-05
		Date:	06/27/14	10/23/14	06/27/14	10/23/14	06/27/14	10/23/14	06/27/14	10/23/14
Volatile Organic Compounds by Method SW8260B (µg/L)										
CIS-1,2-DICHLOROETHENE	5		1 U	1 UJ	1 U	1 UJ	1 U	1 UJ	**0.85**	1 UJ
TRICHLOROETHENE	40		1 U	1 UJ	1 U	1 UJ	1 U	1 UJ	**2.5**	**1.0 J**
VINYL CHLORIDE	2		1 U	1 UJ	1 U	1 UJ	1 U	1 UJ	1 U	1 UJ
Analyte	**Screening Criteria [a]**	**Sample ID:**	**SW10-06**	**SW-FD-140627**	**SW10-06**	**SW10-06/Q**	**SW10-07**	**SW10-07**	**SW99-10**	**SW99-10**
		Date:	**06/27/14**	**06/27/14**	**10/23/14**	**10/23/14**	**06/27/14**	**10/23/14**	**06/27/14**	**10/22/14**
CIS-1,2-DICHLOROETHENE	5		1 U	1 U	1 UJ	1 UJ	1 U	1 UJ	**0.85**	1 UJ
TRICHLOROETHENE	40		1 U	1 U	1 UJ	1 UJ	1 U	1 UJ	1 U	1 UJ
VINYL CHLORIDE	2		1 U	1 U	1 UJ	1 UJ	1 U	1 UJ	**0.71**	1 UJ

(a) New York State Department of Environmental Conservation, Technical and Operational Guidance Series Memorandum #1.1.1: Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 1998 (with updates), Class C Surface Water Standards and Guidance Values.

NOTE: ID = Identification.

µg/L = Micrograms per liter.

U = Not detected (lab reporting limit shown).

J = Estimated value.

UJ = Estimated non-detect.

/Q Designates field duplicate sample.

Shaded cells exceed the screening value.

Bold values denote positive hits.

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TABLE 3-8
Summary of 2014 Field Measurements of Surface Water Samples
2014 Annual Comprehensive Sampling/Monitoring Report
Niagara Falls Air Reserve Station, New York

Location ID	6/27/14			10/23/14		
	pH (s.u.)	Temperature (°C)	Conductivity (µS/cm)	pH (s.u.)	Temperature (°C)	Conductivity (µS/cm)
SW03-02	8.04	19.73	0.628	8.22	11.96	0.634
SW03-03	8.29	19.70	0.623	8.20	12.73	0.645
SW03-15	7.86	18.00	0.616	8.25	11.93	0.648
SW10-05	8.31	26.17	1.350	8.47	9.95	0.963
SW10-06	8.36	25.76	1.490	8.07	12.06	0.929
SW10-07	8.61	25.14	0.629	8.29	9.85	0.648
SW99-10	8.19	31.04	0.690	9.37	9.95	1.040

NOTE: ID = Identification.
s.u. = Standard units.
°C = Degrees Celsius.
µS/cm = MicroSiemens per centimeter.

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4.0 Performance Monitoring

In accordance with the NYSDEC Part 373 Hazardous Waste Storage Permit, Niagara Falls ARS is required to conduct performance monitoring to determine the effectiveness of the corrective actions implemented at Sites 3, 10, and 13. This monitoring program was initially outlined in the Performance Monitoring Program Plan submitted to the 914th AW in March 1997 (E&E 1997) and was updated in the Work Plan for the Installation-Wide Groundwater Monitoring Project (EA 2010).

4.1 Monthly Effluent Sampling Results

The analytical results for each monthly sampling event are submitted to the 914th MSG/CEV office on a monthly basis in letter format as Effluent Monitoring Reports. The reports include tabulated summaries of positive analytical results and calculated mass discharge rates in the NCSD-required "Schedule WSR." Laboratory data reports and tabulated daily mass discharge rates for the effluent monitoring events are not provided in this report, but can be found in the appropriate monthly Effluent Monitoring Reports.

A summary of the 2014 monthly effluent sampling results the Part 373 Permit Analytes for Site 10 are provided in Table 4-1. Results for the Part 373 Permit Analytes for Site 13 are provided in Table 4-2. Metals are not considered site-related contaminants of concern. However, selected metals are monitored in the discharge from each NCSD-permitted sampling point for NCSD permit compliance.

4.2 Operation and Maintenance

EA responded to alarms/system call outs and made repairs as necessary. Delmar Electric was also on-call to manage any emergency situation. The only emergency call-outs occurred in January, March, May, and June 2014:

- In January, the treatment trailer experienced power failure and a low temperature alarm. The abnormally frigid temperatures and the power failure resulted in the low temperature alarm as the heating fans were not working. The system was restarted and normal operation resumed.
- In March, the treatment trailer experienced a trailer flood alarm. A faulty fitting on the system influent line was observed to be the cause. The fitting was replaced and operation resumed.
- In May, a faulty fuse associated with the treatment trailer blower had to be replaced.
- In June, a faulty air flow switch was replaced and piping associated with the air stripping unit was cleaned. In addition, broken piping within PW10-01 hot box was replaced.

Other minor issues were identified and corrected during these call-outs, as well as during monthly inspections. These items are summarized on the O&M inspection forms provided in Appendix D of this report. The 914th MSG/CEV Remedial Project Manager was notified of any problems that were encountered.

4.3 Corrective Action Effectiveness

Remedial goals for Sites 3, 10, and 13 are described in the Part 373 Permit. Key remedial goals and criteria (incomplete list) are summarized in Table 4-3. The status of achievement of each criterion is discussed in the subsections that follow.

4.3.1 Protection of Cayuga Creek

Surface water monitoring results for 2014 confirm that Cayuga Creek is not being impacted from contaminated groundwater associated with Sites 3 and 10 (Table 3-7).

4.3.2 Plume Capture

Groundwater elevation data collected throughout 2014 for Sites 10 and 13 confirm that the groundwater extraction systems are successfully containing their respective groundwater plumes (Figures 3-15 through 3-24).

4.3.3 Aquifer Restoration

Groundwater analytical data from Site 3 indicate that concentrations of VOCs at this location are relatively low. As of May 2011, the site had achieved the alternate termination criteria defined in the Part 373 Permit, initiating pumping well shutdown and post-termination monitoring. There have been no identified CVOC impacts to surface water.

Groundwater analytical data from Sites 10 and 13 indicate current constituent of concern concentrations are greater than established GPSs. Pumping wells at these locations are maintaining hydraulic control of contaminated groundwater. As discussed in Section 6, evaluation of alternative remedial technologies are planned to determine if site cleanup could be achieved in a more timely fashion.

4.3.4 Publicly-Owned Treatment Works Discharge

Monthly system monitoring data collected during 2014 indicate that there were no exceedances of the maximum daily flow limit in the NCSD #1 Industrial Waste Discharge Permit. Additionally, there were no exceedances of contaminant mass discharge limitations in 2014.

4.3.5 Monitoring Program Evaluation

Monitoring wells at Sites 3, 5, 7, 8, 10, and 13 were evaluated to determine the possibility of terminating monitoring at some wells included in the program. The data were evaluated using termination criteria specified in the NYSDEC Part 373 Permit, including:

- Meeting the termination criteria by achieving the GPSs for an equivalent of 4 years.
- Achieving “zero slope condition” as defined in the permit.
- Achieving the analytical concentration criteria (GPSs).
- The residual groundwater contamination not resulting in an unacceptable risk to human health and the environment.

The assessment data for these sites is discussed in Section 6.2 and provided in Appendix E of this report. Niagara Falls ARS will propose action as a result of this evaluation under separate cover.

TABLE 4-1
Permit Regulated Analytical Results for Site 10 Monthly Discharge Samples
2014 Annual Comprehensive Sampling/Monitoring Report
Niagara Falls Air Reserve Station, New York

Analyte	Screening Criteria[a]	PW10-Effluent											
		1/22/2014	2/26/2014	3/26/2014	4/23/2014	5/28/2014	6/25/2014	7/23/2014	8/27/2014	9/24/2014	10/22/2014	11/26/2014	12/23/2014 [b]
Volatile Organic Compounds Method 8260B (µg/L)													
CIS-1,2-DICHLOROETHENE	5	**15.9**	**10.9**	**13.0**	**2.8**	**5.0**	**0.87 J**	**0.93 J**	**236**	**8.5**	**8.8**	**8.7**	
TRANS-1,2-DICHLOROETHENE	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.0**	1.0 U	1.0 U	1.0 U	
TRICHLOROETHENE	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**3.6**	1.0 U	1.0 U	1.0 U	
VINYL CHLORIDE	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**4.0**	1.0 U	1.0 U	1.0 U	
Metals Method 6010B (µg/L)													
COPPER	200	7.0 U	7.0 U	7.0 U	7.0 U	3.6 U	3.8 B	3.6 U	3.6 U	6.4 B	3.6 U	18.8 B	
LEAD	25	1.7 U	1.8 B	1.7 B	**5.6**	1.9 U	1.9 U	2.4 B	1.9 U	**14.7**	1.9 U	**23.3**	
NICKEL	100	20.0 B	18.9 B	2.6 B	5.2 B	0.57 U	2.0 B	0.90 B	0.60 B	3.2 B	0.70 B	2.6 B	
ZINC	2000	**51.3**	**67.0**	**58.9**	**96.6**	**38.8**	**55.9**	**31.2**	**41.9**	**358**	**22.8**	**439**	

[a] New York State Department of Environmental Conservation. 1998 (with updates). Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA Groundwater Standards and Guidance Values

[b] Analytical results have not been received for the 23 December 2014 sampling event. Results will be included in the Draft Final Report.

NOTE: µg/L = Micrograms per Liter

U = Not detected (method reporting limit provided)

J = Estimated value

UJ = Estimated non-detect

B = Result is greater than or equal to the method detection limit but less that reporting limit

--- = Not analyzed

Bold values indicate detected concentration

Shaded values indicate exceedance of screening criteria

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TABLE 4-2
Permit Regulated Analytical Results for Site 13 Monthly Discharge Samples
2014 Annual Comprehensive Sampling/Monitoring Report
Niagara Falls Air Reserve Station, New York

Analyte	Screening Criteria[a]	1/22/2014		4/23/2014		5/28/2014	6/25/2014	7/23/2014		10/22/2014		11/26/2014	12/23/2014 [b]
		PW13-1	PW13-4D	PW13-1	PW13-4D	PW13-COMPOSITE	PW13-COMPOSITE	PW13-1	PW13-4D	PW13-1	PW13-4D	PW13-COMPOSITE	PW13-COMPOSITE
Volatile Organic Compounds Method 8260B (µg/L)													
CIS-1,2-DICHLOROETHENE	5	**35.6**	**9.8**	**25.7**	**7.7**	**12.4**	**15.5**	**40.3**	**11.2**	**16.9**	**8.9**	**11.8**	
TRANS-1,2-DICHLOROETHENE	5	1.0 U	1.0 U	0.55 J	1.0 U	1.0 U	1.0 U	0.59 J	1.0 U	1.0 U	1.0 U	1.0 U	
TRICHLOROETHENE	5	**60.2**	1.0 U	**16.1**	1.0 U	**9.5**	**10.0**	**33.7**	1.0 U	**7.0**	1.0 U	**5.1**	
VINYL CHLORIDE	2	**22.8**	**9.3**	**9.8**	**10.0**	**10.6**	**12.4**	**34.6**	**7.1**	**7.9**	**11.3**	**10**	
Metals Method 6010B (µg/L)													
Analyte	**Screening Criteria[a]**	**PW13-COMPOSITE**		**PW13-COMPOSITE**		**PW13-COMPOSITE**	**PW13-COMPOSITE**	**PW13-COMPOSITE**		**PW13-COMPOSITE**		**PW13-COMPOSITE**	**PW13-COMPOSITE**
LEAD	25	1.7 U		**5.1**		1.9 U	3.9 U	3.2 B		1.9 U		5.8 U	
NICKEL	100	18.8 B		4.2 B		0.90 B	10.4 B	0.70 B		1.3 B		1.0 B	
ZINC	2000	361		380		323	280	654		236		201	

[a] New York State Department of Environmental Conservation. 1998 (with updates). Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA Groundwater Standards and Guidance Values

[b] Analytical results have not been received for the 23 December 2014 sampling event. Results will be included in the Draft Final Report.

NOTE: µg/L = Micrograms per Liter

U = Not detected (method reporting limit provided)

J = Estimated value

B = Result is greater than or equal to the method detection limit but less that reporting limit

--- = Not analyzed

Bold values indicate detected concentration

Shaded values indicate exceedance of screening criteria

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TABLE 4-3
Part 373 Permit Remedial Goals
2014 Annual Comprehensive Sampling/Monitoring Report
Niagara Falls Air Reserve Station, New York

Site ID	Remedial Goal	Remedial Criteria
Site 3	Mitigate the potential for groundwater discharge of contaminants to Cayuga Creek and offsite through continued operation of the groundwater extraction system until such time as remedial criteria are achieved.	▪Plume capture, ▪ Aquifer restoration to levels at or below the established Groundwater Protection Standards or alternative criteria, and ▪ Discharge compliance with Publicly-Owned Treatment Works requirements.
Site 10	Remediation of shallow bedrock zone contamination, and restoration of the overburden aquifer and bedrock aquifer by continued operation of a groundwater extraction system. Mitigate the potential for groundwater discharge of contaminants to Cayuga Creek and offsite through continued operation of the groundwater extraction system until such time as remedial criteria are achieved.	▪Plume capture, ▪ Aquifer restoration to levels at or below the established Groundwater Protection Standards or alternative criteria, and ▪ Discharge compliance with Publicly-Owned Treatment Works requirements.
Site 13	Remediation of shallow bedrock zone contamination and restoration of the overburden aquifer and bedrock aquifer by continued operation of a groundwater extraction system.	▪Plume capture, ▪ Aquifer restoration to levels at or below the established Groundwater Protection Standards or alternative criteria, and ▪ Discharge compliance with Publicly-Owned Treatment Works requirements.

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5.0 Well Inspection and Maintenance

5.1 Monitoring Well Inspections and Maintenance

Well inspections of existing IRP groundwater wells and piezometers were performed in June 2014. The purpose of these inspections was to determine and document the physical condition of the monitoring and pumping wells, and to identify maintenance actions required to keep the wells operational. The results of the inspections were documented on the well inspection checklist provided in Appendix F. In conjunction with well inspections, the Site 3 landfill cap was inspected on 24 September 2014 (also provided in Appendix F). No maintenance activities were required.

Well inspections included the following:

- Inspection of well identification marking and painting, protective casing lock, protective casing cover, monitoring well riser, concrete drainage pad, and guard posts.
- Inspection of each well casing annulus for the presence of trapped water.
- Determination of total depth of the well using a weighted tape measure.
- Determination of the presence of obstructions in the well.

The necessity for well maintenance was determined by the results of the well inspection. Minor items were identified and were addressed in September 2014. The following maintenance items were addressed:

- One monitoring well j-plug was replaced.
- Five monitoring well covers were replaced.
- Four monitoring well pads were patched.
- Eight monitoring well locks were replaced.
- Twenty-two monitoring well stick-ups and/or bollards were painted.
- Several flush-mount cover bolts were replaced.

5.2 Pumping Well and Treatment System Inspections and Maintenance

Inspections and maintenance of groundwater extraction wells, and collection and treatment systems is discussed in Sections 2.7 and 4.2.

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6.0 Discussion and Conclusions

The Installation-Wide Groundwater Monitoring Program is designed to:

- Monitor the nature and extent of groundwater and surface water contamination at the installation.
- Identify any potential corrective actions needed to prevent offsite migration.

This project includes groundwater monitoring at six IRP sites (Sites 3, 5, 7, 8, 10, and 13) and remedial system performance monitoring at two IRP sites (Sites 10 and 13). Current remedies for all of the sites include long-term groundwater monitoring.

6.1 Groundwater Contamination

VOCs have been identified as the contaminants of concern in groundwater at the installation. The primary contaminants of concern include chlorinated hydrocarbons such as TCE, isomers of DCE (primarily *cis*-1,2-DCE), and vinyl chloride. Aromatic hydrocarbons including benzene, toluene, ethylbenzene, and total xylenes have also impacted groundwater quality, primarily at Sites 7 and 10, but to a lesser extent than CVOCs. The presence of CVOCs is consistent with the industrial use of organic solvents and their subsequent natural degradation following release into the environment. The presence of aromatic hydrocarbons is consistent with the use of jet fuels at Site 7, which is located adjacent to a taxiway, and other fuels at Site 10, which was used for fire training.

6.1.1 Groundwater Flow and Contaminant Trends

Based on the hydrogeologic conceptual models developed for the installation, contaminants dissolved in groundwater are expected to migrate laterally and vertically through multiple water-bearing zones potentially discharging to surface water. In the overburden, low hydraulic conductivities and gradients result in preferred contaminant transport vertically rather than horizontally through the bulk clay matrix of the soil. However, secondary porosity, such as fractures in the bedrock and overburden and thin horizontal seams of slightly coarser soil (silt and sand), control the majority of advective flow and contaminant transport. The hydraulic interaction between surface water and groundwater, the result of streams acting as recharge or discharge areas, varies significantly depending upon the elevation of water within the streams and adjacent overburden or bedrock.

6.1.1.1 Background Wells at Former Site 1 and Site 8 (DS002)

As part of the Part 373 Permit, annual sampling of background wells is required; therefore, MW1-1DA and MW8-11D were sampled annually on a rotating basis (spring and fall, respectively). Results of the background sampling indicated that no VOCs were detected in the background wells, MW1-1DA and MW8-11D, in 2014.

Overburden and deep bedrock background wells are no longer sampled, as historic analytical data indicate no VOC impacts at these locations. However, existing background wells are maintained for groundwater level measurements and possible sampling as needed until active IRP sites are closed.

6.1.1.2 Site 3 (LF008)

The presence of organic solvents at Site 3 is consistent with the nature of the mixed wastes disposed of in the landfill. A groundwater extraction corrective measure was implemented at this site in June 1998, to prevent impacts to Cayuga Creek from the CVOC groundwater plume. The corrective measure system was enhanced by the addition of a groundwater collection trench in April 1999. Groundwater was pumped from the trench into the sanitary sewer system for treatment. Operation of PW3-3A, which

served as the sump for the trench, was terminated in May 2011 after groundwater concentrations reached alternate termination criteria. Currently, the inactive pumping well (PW3-3A) and five shallow bedrock wells (MW3-3DA, MW3-4DA, PZ3-6D, PZ3-7D, and PZ3-8D) are sampled as part of the post-termination monitoring program. In addition, three surface water samples are collected from Cayuga Creek.

Groundwater concentrations of *cis*-1,2-DCE and vinyl chloride have fluctuated over time; however, the data suggest that degradation has and is occurring, based on the detection of daughter products *cis*-1,2-DCE and vinyl chloride in the absence of a parent compound (i.e., PCE and/or TCE) in the shallow bedrock monitoring wells/piezometers currently included in the monitoring program. Recently, the highest concentrations (<25 µg/L) of total CVOCs have been measured in shallow bedrock wells located on both the west (MW3-4DA) and east (MW3-3DA, PZ3-6D, PZ3-7D, and PZ3-8D) sides of the creek. However, surface water sampling has not revealed any impact on surface water quality.

There has been an overall declining trend in TCE concentrations at the site and an increase in degradation product concentrations. However, *cis*-1,2-DCE and vinyl chloride continue to persist above NYSDEC Class GA standards in shallow bedrock groundwater both west and east of Cayuga Creek.

While the persistent concentrations on the east side of Cayuga Creek may suggest the possibility of an off-site source area, the presence of an alternate source area has not been established. Due to complexities associated with groundwater flow and chemical migration in fractured bedrock, the potential for semi-confining conditions between the shallow and deep bedrock; and the complex interaction between surface water, bedrock, and overburden in this area, the CVOC observed east of the creek may be the result of historic groundwater migration from the landfill.

6.1.1.3 Site 5 (DS004)

The current area of the CVOC groundwater plume at Site 5, which was associated with an isolated surface spill of chlorinated solvents, is approximately 0.8 acres, with c*is*-1,2-DCE and vinyl chloride remaining the most commonly detected compounds in site groundwater. CVOC concentrations are highest in a relatively small area centered between former Boeing/Michigan Aeronautical Research Center missile launcher shelters F5 and F6. TCE, *cis*-1,2-DCE, and vinyl chloride concentrations remain above groundwater standards in the overburden, while *cis*-1,2-DCE and vinyl chloride are detected above standards in bedrock.

There have historically been similar concentrations of VOCs in the overburden and shallow bedrock groundwater, indicating a direct hydraulic connection between these water-bearing zones. In bedrock well MW5-5D, the VOC concentration pattern is similar to that of the overburden wells, such as MW5-6. Deep bedrock well MW5-1E has consistently exhibited a lack of site-related contamination, indicating a limit to downward contaminant migration in the source area at Site 5.

TCE concentrations have decreased by several orders of magnitude and to non-detect in many instances following hydrogen release compound (HRC) injections in 2001, 2002, and 2006. Total CVOC concentrations have fluctuated since the third HRC injection in 2006 in some of these overburden wells, but concentrations remain much lower than prior to injection. While HRC injections have been effective in reducing CVOC concentrations (particularly TCE) in groundwater, complete dechlorination of *cis*-1,2-DCE and vinyl chloride did not occur. Additionally, the HRC injection design may not have targeted the most contaminated zones. Therefore, an injection of ZVI and carbon is planned to address residual source material that may be contributing to persistent CVOC concentrations in groundwater at the site.

6.1.1.4 Site 7 (SS014)

Historically at Site 7, groundwater VOC impacts, which were related to a historic jet fuel spill, are present in only one existing shallow bedrock well (MW7-1D). Benzene, toluene, ethylbenzene, and total xylenes concentrations have fluctuated since oxygen-release compound applications began in spring 2002, but have been relatively low (around 100 µg/L) compared to the historical maximum in May 2003 (>1,000 µg/L).

Given the proximity of this spill to the taxiway, a portion of the unrecovered fuel likely migrated beneath the taxiway, as evidenced by impacted soil observed during the 2011 taxiway upgrade. However, the impervious surface of the taxiway limits mobilization by preventing infiltration. A localized area of residual source material may also remain in the saturated overburden between MW7-1D and the taxiway. This residual source material, where present, is likely contributing to the persistent concentrations observed in MW7-1D. Injections of oxygen-release compound to the overburden/shallow bedrock interface are planned to reduce groundwater contamination observed in shallow bedrock well MW7-1D.

6.1.1.5 Site 8 (DS002)

The variety and relatively low levels of VOCs detected in several wells at Site 8 are consistent with the site's former use as a drum storage area. The relatively widespread distribution of these contaminants supports the observation of a very low horizontal hydraulic gradient with multidirectional, seasonal flow. Enhanced natural biodegradation has been implemented at Site 8 through multiple injections of HRC in 2002 and 2004.

Since implementation of HRC injections, CVOC concentrations have generally declined with TCE and *cis*-1,2-DCE concentrations showing significant reduction. However, despite the declining trend, degradation products continue to remain elevated above the groundwater standards in one overburden and one shallow bedrock well.

HRC injections appear to have been effective at the site, as evidenced by a declining trend in TCE concentrations and an increase in degradation product concentrations suggesting that reductive dechlorination is occurring. However, TCE and degradation products *cis*-1,2-DCE and vinyl chloride continue to persist above standards in both overburden and bedrock, suggesting that efforts to enhance biological degradation were not sufficient to reduce CVOC concentrations below groundwater standards. Therefore, an injection of ZVI and carbon is planned to further address residual CVOC concentrations in groundwater at the site.

6.1.1.6 Site 10 (FT005)

The variety of VOCs present throughout Site 10 is consistent with its former use as a fire training area. The magnitude of the total VOC concentration in each well largely depends on the well's location relative to the former burn pit. The VOCs detected in the overburden and shallow bedrock groundwater primarily include CVOCs; with TCE, *cis*-1,2-DCE, and vinyl chloride contributing most to the total VOC concentrations. Concentrations of *cis*-1,2-DCE and TCE in groundwater have shown a consistent downward trend with corresponding increases of vinyl chloride, indicating that natural reductive dechlorination of CVOCs is occurring. Benzene, toluene, ethylbenzene, and total xylenes constituents (primarily benzene) also have been detected in groundwater; however, these detections represent a small contribution to the total VOC concentrations in groundwater. Benzene groundwater concentrations have declined over time from 570 µg/L (at MW10-10 in 1998) to less than 50 µg/L.

Plume migration has historically been similar in the overburden and shallow bedrock (E&E 2009). In the overburden groundwater, contaminants migrated to the south. Shallow bedrock plume migration

followed a similar pattern with decreasing concentration trends near the source area and increasing trends downgradient to the south. The hydraulic relationship between these units was underscored when pumping at shallow bedrock well PW10-2 began and rapid drawdown was observed in several overburden wells. Pumping at PW10-2 and passive capture at collection trench PW10-1 still maintain hydraulic control across a large area of Site 10.

Evidence of low-level contaminant discharge to surface water has been observed at an upstream sampling location in the drainage ditch adjacent to the former fire training area at Site 10. However, no VOCs were detected in the sample collected from Cayuga Creek downstream of Site 10 (SW10-7), which indicates that Site 10 groundwater is not impacting Cayuga Creek. Pumping wells at this location are designed to maintain hydraulic control of groundwater, preventing discharge of impacted groundwater directly to Cayuga Creek.

While there is some indication of decreasing CVOC concentration trends via natural attenuation, residual source material remains in the overburden, at the overburden/bedrock interface, and potentially in the shallow bedrock. Persistent concentrations of CVOCs are observed in both overburden and shallow bedrock groundwater at the site, with downgradient migration being contained by the source area pumping well. A more aggressive remedial action consisting of two rounds of ZVI and carbon injections are planned to address these residual source material; thereby, reducing the mass flux of contaminants to the dissolved phase.

6.1.1.7 Site 13 (ST010)

The variety of CVOCs detected in wells at Site 13 is consistent with the site's former use of storage waste solvents in an underground storage tank. The primary CVOCs in groundwater at the site are TCE and its degradation products (*cis*- and *trans*-1,2-DCE, and vinyl chloride), which remain elevated above groundwater standards in overburden and shallow bedrock. Evidence of downward vertical migration has also been observed through the presence of CVOCs (at relatively low concentrations) in the deep bedrock well located near the location of the former leaking underground storage tank.

A groundwater extraction system, consisting of two shallow bedrock pumping wells, has been operating since 1998 to reduce groundwater contaminant concentrations, and prevent vertical and offsite migration. Recovered groundwater is discharged directly to the sanitary sewer. Since 2004, due to decreasing CVOC concentrations, the pump operation was modified to a 3-month on/3-month off cycle. Recently, concentrations of CVOCS have decreased below the alternative termination criteria, under "steady state" pumping conditions. The decreasing groundwater CVOC concentration trends in site monitoring and pumping wells suggest that monitored natural attenuation may be sufficient to reduce groundwater CVOC concentrations throughout the plume below alternative termination criteria.

6.2 Well Terminations and Post-termination Monitoring

An evaluation of the status of each monitoring well currently included in the monitoring program well with respect to termination criteria provided in the Part 373 Permit is provided in Appendix E and summarized in Table E-1.

6.2.1 Site 3 (LF008)

NYSDEC approved the termination of pumping at PW3-3A and active groundwater extraction ceased when the well pump was removed on 24 May 2011. The site is in the post-termination monitoring phase in accordance with the Part 373 Permit. The "Post Termination Monitoring and System

Reactivation" section of the Permit (page 21) provides criteria for potential reactivation during post-termination monitoring. NYSDEC may require system restart under the following two conditions:

1. If two consecutive semiannual results exceed the GPSs.
2. If the yearly average results exceed the GPSs.

Both conditions existed in PW3-3A prior to NYSDEC's approval to terminate pumping and were known conditions; therefore, the current conditions remain unchanged with respect to these two criteria.

The 2014 groundwater monitoring program for this site included sampling for VOCs at MW3-3DA, MW3-4D, PW3-3A, PZ3-6D, PZ3-7D, and PZ3-8D. Three of the wells (MW3-3DA, PZ3-6D, and PZ3-8D) currently meet the alternative termination criteria of the Part 373 Permit (Appendix E). Additional remedial actions are planned for this site and continued monitoring of the site wells is recommended to evaluate the effectiveness of the future remedial actions.

6.2.2 Site 5 (DS004)

The 2014 groundwater monitoring program for this site included sampling for VOCs at MW5-1DA, MW5-5D, MW5-6, RW5-1, RW5-2, and RW5-4. Based on the 2014 sampling results, MW5-1DA meets the alternative termination criteria of the Part 373 Permit. However, additional remedial actions are planned for this site; therefore, this well will be retained in the monitoring program to verify the effectiveness of the planned remedy.

6.2.3 Site 7 (SS014)

The 2014 groundwater monitoring program for this site included analytical sampling for VOCs at MW7-1D. The concentrations of VOCs from this well do not meet the termination or alternative termination criteria of the Part 373 Permit.

6.2.4 Site 8 (DS002)

The 2014 groundwater monitoring program for this site included sampling for VOCs at MW8-1 and MW8-10D. Based on the 2014 sampling results, MW8-10D meets the alternative termination criteria of the Part 373 Permit. However, additional remedial actions are planned for this site; therefore, this well will be retained in the monitoring program to verify the effectiveness of the planned remedy.

6.2.5 Site 10 (FT005)

The 2014 groundwater monitoring program for this site included sampling for VOCs at MW10-1DA, MW10-3, MW10-3D, MW10-4D, MW10-4E, MW10-7, MW10-9D, MW10-10D, PW10-1, PW10-2, and PZ10-7. VOC results from MW10-3D and PZ10-7 meet the termination criteria of the Part 373 Permit. MW10-4E and MW10-9D meet the alternative termination criteria of the Part 373 Permit. These four wells have previously met termination or alternative termination criteria; however, these wells have remained in the monitoring program to verify the lack of contaminant migration towards Cayuga Creek (MW10-9D and PZ10-7) or across Cayuga Creek (MW10-3D).

6.2.6 Site 13 (ST010)

The 2014 groundwater monitoring program for this site included analytical sampling for VOCs at MW13-4D, MW13-5D, PW13-1, and PW13-4D. VOC concentrations at MW13-4D, MW13-5D, and PW13-4D meet the alternative termination criteria of the Part 373 Permit (Appendix E). Future sampling of all site wells is planned to evaluate the need for future remedial actions; therefore, these wells will be retained in the monitoring program.

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7.0 References

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Appendix A

Water Level Data

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TABLE A-1

Groundwater Elevations, June 2014

2014 Annual Comprehensive Sampling/Monitoring Report

Niagara Falls Air Reserve Station, New York

Location	Ground Elevation (ft AMSL)	TOIC Elevation (ft AMSL)	Well Depth (6/9/14)	Depth to Water (6/9/14)	Groundwater Elevation (6/9/14)
MW1-1DA	603.05	605.61	24.11	9.81	595.80
MW1-7A	603.04	605.71	13.04	7.40	598.31
MPL2-1A	602.2	603.29	13.5	5.57	597.72
MW2-1DA	597.36	599.39	14.41	3.43	595.96
MW3-1A	601.60	603.65	13.41	5.61	598.04
MW3-1DA	590.70	593.29	16.05	4.46	588.83
MW3-1E	589.00	591.51	44.23	1.56	589.95
MW3-2	596.90	598.44	10.11	5.85	592.59
MW3-2DA	596.80	599.02	22.03	9.00	590.02
MW3-3DA	588.30	590.10	17.00	0.20	589.90
MW3-4DA	588.50	590.99	15.67	1.06	589.93
MW3-5D	593.00	594.96	25.65	5.00	589.96
MW3-6A	599.80	602.26	10.99	6.40	595.86
MW3-6D	600.70	602.05	19.06	5.92	596.13
MW3-7	588.10	591.14	7.43	5.78	585.36
MW3-8	601.50	603.84	12.80	6.67	597.17
MW3-8D	601.50	603.67	23.77	12.87	590.80
MW3-8E	601.60	603.69	46.50	12.88	590.81
PW3-3A	589.40	589.95	14.02	0.90	589.05
PZ3-1	592.10	591.71	5.83	2.51	589.2
PZ3-1D	592.20	591.75	12.45	2.74	589.01
PZ3-2	590.90	590.12	4.26	1.62	588.5
PZ3-2D	590.90	590.52	12.76	1.70	588.82
PZ3-3	588.90	588.14	2.30	0.78	587.36
PZ3-3D	588.80	588.62	9.44	0.65	587.97
PZ3-4	590.50	589.95	3.30	3.00	586.95
PZ3-4D	590.60	590.52	11.58	1.36	589.16
PZ3-5	590.03	589.68	2.86	0.40	> 589.68
PZ3-5D	589.80	589.57	10.24	TOC	> 589.57
PZ3-6D	588.30	587.90	12.88	TOC	> 587.9
PZ3-7D	593.40	593.01	21.52	3.26	589.75
PZ3-8D	592.40	592.12	18.35	3.75	588.37
MW5-1A	---	600.42	15.98	11.02	589.40
MW5-1DA	598.12	600.07	28.70	12.87	587.20
MW5-1E	596.56	596.39	57.17	10.85	585.54
MW5-2D	598.55	600.8	26.38	12.81	587.99
MW5-3D	598.61	600.5	25.28	12.62	587.88
MW5-4	596.96	599.42	15.58	11.56	587.86

NOTE: AMSL = Above Mean Sea Level.

TOIC = Top of Inner Casing

TOC = Top of Casing

--- = Not Available

TABLE A-1

Groundwater Elevations, June 2014

2014 Annual Comprehensive Sampling/Monitoring Report

Niagara Falls Air Reserve Station, New York

Location	Ground Elevation (ft AMSL)	TOIC Elevation (ft AMSL)	Well Depth (6/9/14)	Depth to Water (6/9/14)	Groundwater Elevation (6/9/14)
MW5-4D	597.90	597.34	25.90	10.52	586.82
MW5-5A	598.00	600.8	20.01	16.62	584.18
MW5-5D	597.50	597.12	27.28	10.15	586.97
MW5-6	596.64	596.42	13.51	8.15	588.27
MW5-6D	595.18	594.94	22.91	6.20	588.74
MW5-7	596.63	596.46	12.91	7.87	588.59
MW5-7D	595.38	595.14	22.55	6.66	588.48
MW5-8	594.55	594.14	10.50	5.37	588.77
MW5-8D	594.10	593.95	20.31	8.33	585.62
RW5-1	597.12	596.88	14.61	8.39	588.49
RW5-2	595.79	595.46	11.02	6.70	588.76
RW5-3	597.79	597.5	14.16	9.31	588.19
RW5-4	597.52	597.16	14.74	8.88	588.28
MPL6-2A	599.1	601.3	14.27	7.83	593.47
MPL6-3	599.46	601.58	15.64	7.53	594.05
MW7-1D	589.81	589.59	10.92	6.20	583.39
MW7-2	588.94	588.82	5.87	4.69	584.13
MW7-2D	588.32	588.08	15.26	4.76	583.32
MW7-3D	587.81	587.54	15.04	4.03	583.51
MW8-1	597.63	598.87	13.72	8.77	590.1
MW8-1E	598.57	598.52	50.60	16.78	581.74
MW8-2D	598.48	600.57	29.99	11.31	589.26
MW8-3	597.36	599.06	14.61	10.19	588.87
MW8-3DA	598.94	601.24	26.61	12.04	589.2
MW8-4A	598.49	600.4	14.95	11.00	589.4
MW8-4D	596.11	598.41	22.44	9.42	588.99
MW8-5A	597.9	600.02	15.00	10.05	589.97
MW8-8	598.1	600.18	13.90	11.37	588.81
MW8-10D	598.32	600.17	24.72	10.97	589.2
MW8-11	599.58	602.28	16.63	13.66	588.62
MW8-11D	599.53	601.99	27.22	12.71	589.28
MW8-11E	599.48	602.02	49.58	13.41	588.61
MW10-1DA	587.5	588.55	22.94	9.51	579.04
MW10-1EA	587.96	588.9	39.9	8.42	580.48
MW10-1F	588.11	588.73	59.05	11.15	577.58
MW10-2	588	590.38	8.78	8.78	DRY
MW10-2E	586.6	587.33	47.19	6.87	580.46
MW10-3	588.37	590.5	9.40	8.90	581.60

TABLE A-1

Groundwater Elevations, June 2014

2014 Annual Comprehensive Sampling/Monitoring Report

Niagara Falls Air Reserve Station, New York

Location	Ground Elevation (ft AMSL)	TOIC Elevation (ft AMSL)	Well Depth (6/9/14)	Depth to Water (6/9/14)	Groundwater Elevation (6/9/14)
MW10-3D	586.5	586.26	25.83	1.38	584.88
MW10-3E	586.4	586.19	43.25	7.02	579.17
MW10-4	586.96	589.37	8.05	7.86	581.51
MW10-4D	587.00	587.76	19.95	8.33	579.43
MW10-4E	587.00	588.15	41.10	7.67	580.48
MW10-5D	588.08	589.05	19.66	6.45	582.6
MW10-6	587.00	586.35	9.62	8.81	577.54
MW10-7	586.95	587.29	9.05	6.72	580.57
MW10-8	587.49	588.02	9.37	5.30	582.72
MW10-8D	587.30	588.33	24.22	5.85	582.48
MW10-9D	586.52	587.03	20.27	5.73	581.3
MW10-10D	588.20	591.39	24.70	10.02	581.37
MW10-11	---	586.51	7.40	6.35	580.16
MW10-11D	---	586.58	17.35	6.45	580.13
MW10-12	---	587.76	8.38	6.38	581.38
MW10-12D	---	587.76	18.82	8.41	579.35
MW10-13	587.64	587.29	6.96	6.93	580.36
MW10-13D	587.66	587.38	16.80	7.15	580.23
PW10-1	587.02	587.47	13.81	11.80	575.67
PW10-2	561.03	586.51	25.00	14.76	569.87[(a)]
PZ10-7	586.90	586.80	10.05	5.59	581.21
MW13-1	595.79	598.91	10.06	9.42	589.49
MW13-1D	596.00	598.03	20.66	8.41	589.62
MW13-1E	595.80	598.02	43.84	16.42	581.60
MW13-2D	598.00	601.11	23.61	15.05	586.06
MW13-3	595.98	598.67	10.91	8.85	589.82
MW13-3D	592.10	591.94	15.95	4.09	587.85
MW13-4	595.36	598.38	10.94	10.43	587.95
MW13-4D	597.70	599.96	18.73	9.79	590.17
MW13-5A	596.01	595.72	8.07	7.15	588.57
MW13-5D	595.60	597.49	20.71	15.86	581.63
MW13-6	594.64	594.06	6.77	4.11	589.95
MW13-6D	594.64	594.17	8.81	4.66	589.51
PW13-1	595.96	596.41	27.34	16.73	579.68

(a) Mid-point elevation used for groundwater elevation

TABLE A-1

Groundwater Elevations, June 2014

2014 Annual Comprehensive Sampling/Monitoring Report

Niagara Falls Air Reserve Station, New York

Location	Ground Elevation (ft AMSL)	TOIC Elevation (ft AMSL)	Well Depth (6/9/14)	Depth to Water (6/9/14)	Groundwater Elevation (6/9/14)
PW13-4D	598.13	598.50	22.85	19.04	579.46
PZ13-1	596.00	595.60	4.30	3.78	591.82
PZ13-1D	595.90	595.61	17.01	5.04	590.57
PZ13-2	598.70	598.37	5.87	2.36	596.01
PZ13-2D	598.60	598.00	17.25	6.45	591.55
PZ13-3D	595.98	595.44	17.87	7.70	587.74
PZ13-4	597.10	596.26	9.60	6.68	589.58
PZ13-4D	597.10	596.61	22.34	9.14	587.47

TABLE A-2

Groundwater Elevations, October 2014

2014 Annual Comprehensive Sampling/Monitoring Report

Niagara Falls Air Reserve Station, New York

Location	Ground Elevation (ft AMSL)	TOIC Elevation (ft AMSL)	Well Depth (10/06/14)	Depth to Water (10/06/14)	Groundwater Elevation (10/06/14)
MW1-1DA	603.05	605.61	24.11	10.45	595.16
MW1-7A	603.04	605.71	13.04	9.83	595.88
MPL2-1A	602.2	603.29	13.5	6.89	596.40
MW2-1DA	597.36	599.39	14.41	3.90	595.49
MW3-1A	601.60	603.65	13.41	6.30	597.35
MW3-1DA	590.70	593.29	16.05	5.70	587.59
MW3-1E	589.00	591.51	44.23	1.54	589.97
MW3-2	596.90	598.44	10.11	7.05	591.39
MW3-2DA	596.80	599.02	22.03	6.30	592.72
MW3-3DA	588.30	590.10	17.00	0.50	589.60
MW3-4DA	588.50	590.99	15.67	1.32	589.67
MW3-5D	593.00	594.96	25.65	6.11	588.85
MW3-6A	599.80	602.26	10.99	7.06	595.20
MW3-6D	600.70	602.05	19.06	6.61	595.44
MW3-7	588.10	591.14	7.43	6.21	584.93
MW3-8	601.50	603.84	12.80	8.45	595.39
MW3-8D	601.50	603.67	23.77	13.36	590.31
MW3-8E	601.60	603.69	46.50	13.30	590.39
PW3-3A	589.40	589.95	14.02	1.35	588.60
PZ3-1	592.10	591.71	5.83	4.1	587.61
PZ3-1D	592.20	591.75	12.45	3.13	588.62
PZ3-2	590.90	590.12	4.26	2.45	587.67
PZ3-2D	590.90	590.52	12.76	2.10	588.42
PZ3-3	588.90	588.14	2.30	0.51	587.63
PZ3-3D	588.80	588.62	9.44	0.6	588.02
PZ3-4	590.50	589.95	3.30	3.05	586.90
PZ3-4D	590.60	590.52	11.58	1.85	588.67
PZ3-5	590.03	589.68	2.86	0.45	589.23
PZ3-5D	589.80	589.57	10.24	0.2	589.37
PZ3-6D	588.30	587.90	12.88	TOC	> 587.9
PZ3-7D	593.40	593.01	21.52	3.20	589.81
PZ3-8D	592.40	592.12	18.35	4.00	588.12
MW5-1A	---	600.42	15.98	13.05	587.37
MW5-1DA	598.12	600.07	28.70	14.06	586.01
MW5-1E	596.56	596.39	57.17	14.15	582.24
MW5-2D	598.55	600.8	26.38	14.26	586.54
MW5-3D	598.61	600.5	25.28	14.07	586.43
MW5-4	596.96	599.42	15.58	13.00	586.42

NOTE: AMSL = Above Mean Sea Level.

TOIC = Top of Inner Casing

TOC = Top of Casing

--- = Not Available

TABLE A-2

Groundwater Elevations, October 2014

2014 Annual Comprehensive Sampling/Monitoring Report

Niagara Falls Air Reserve Station, New York

Location	Ground Elevation (ft AMSL)	TOIC Elevation (ft AMSL)	Well Depth (10/06/14)	Depth to Water (10/06/14)	Groundwater Elevation (10/06/14)
MW5-4D	597.90	597.34	25.90	11.91	585.43
MW5-5A	598.00	600.8	20.01	15.00	585.80
MW5-5D	597.50	597.12	27.28	11.3	585.82
MW5-6	596.64	596.42	13.51	9.15	587.27
MW5-6D	595.18	594.94	22.91	7.55	587.39
MW5-7	596.63	596.46	12.91	8.87	587.59
MW5-7D	595.38	595.14	22.55	7.77	587.37
MW5-8	594.55	594.14	10.50	7.15	586.99
MW5-8D	594.10	593.95	20.31	9.16	584.79
RW5-1	597.12	596.88	14.61	10.61	586.27
RW5-2	595.79	595.46	11.02	7.67	587.79
RW5-3	597.79	597.5	14.16	10	587.50
RW5-4	597.52	597.16	14.74	10	587.16
MPL6-2A	599.1	601.3	14.27	8	593.30
MPL6-3	599.46	601.58	15.64	7.77	593.81
MW7-1D	589.81	589.59	10.92	6.61	582.98
MW7-2	588.94	588.82	5.87	9.2	579.62
MW7-2D	588.32	588.08	15.26	5.42	582.66
MW7-3D	587.81	587.54	15.04	4.4	583.14
MW8-1	597.63	598.87	13.72	9.67	589.20
MW8-1E	598.57	598.52	50.60	12.38	586.14
MW8-2D	598.48	600.57	29.99	12.3	588.27
MW8-3	597.36	599.06	14.61	11.11	587.95
MW8-3DA	598.94	601.24	26.61	12.95	588.29
MW8-4A	598.49	600.4	14.95	12.07	588.33
MW8-4D	596.11	598.41	22.44	10.2	588.21
MW8-5A	597.9	600.02	15.00	10.1	589.92
MW8-8	598.1	600.18	13.90	12.32	587.86
MW8-10D	598.32	600.17	24.72	11.91	588.26
MW8-11	599.58	602.28	16.63	14.6	587.68
MW8-11D	599.53	601.99	27.22	13.61	588.38
MW8-11E	599.48	602.02	49.58	14.2	587.82
MW10-1DA	587.5	588.55	22.94	9.99	578.56
MW10-1EA	587.96	588.9	39.9	8.5	580.40
MW10-1F	588.11	588.73	59.05	7.06	581.67
MW10-2	588	590.38	8.78	8.78	DRY
MW10-2E	586.6	587.33	47.19	7.1	580.23
MW10-3	588.37	590.5	9.40	9.40	DRY

TABLE A-2

Groundwater Elevations, October 2014

2014 Annual Comprehensive Sampling/Monitoring Report

Niagara Falls Air Reserve Station, New York

Location	Ground Elevation (ft AMSL)	TOIC Elevation (ft AMSL)	Well Depth (10/06/14)	Depth to Water (10/06/14)	Groundwater Elevation (10/06/14)
MW10-3D	586.5	586.26	25.83	5.99	580.27
MW10-3E	586.4	586.19	43.25	7.27	578.92
MW10-4	586.96	589.37	8.05	8.05	DRY
MW10-4D	587.00	587.76	19.95	9.94	577.82
MW10-4E	587.00	588.15	41.10	7.75	580.40
MW10-5D	588.08	589.05	19.66	7.31	581.74
MW10-6	587.00	586.35	9.62	9.22	577.13
MW10-7	586.95	587.29	9.05	8.05	579.24
MW10-8	587.49	588.02	9.37	9.31	578.71
MW10-8D	587.30	588.33	24.22	8.98	579.35
MW10-9D	586.52	587.03	20.27	6.25	580.78
MW10-10D	588.20	591.39	24.70	10.28	581.11
MW10-11	---	586.51	7.40	7.25	579.26
MW10-11D	---	586.58	17.35	6.99	579.59
MW10-12	---	587.76	8.38	7.22	580.54
MW10-12D	---	587.76	18.82	4.22	583.54
MW10-13	587.64	587.29	6.96	6.96	DRY
MW10-13D	587.66	587.38	16.80	7.70	579.68
PW10-1	587.02	587.47	13.81	10.70	576.77
PW10-2	561.03	586.51	25.00	11.95	569.87
PZ10-7	586.90	586.80	10.05	6.60	580.20
MW13-1	595.79	598.91	10.06	9.17	589.74
MW13-1D	596.00	598.03	20.66	8.55	589.48
MW13-1E	595.80	598.02	43.84	16.80	581.22
MW13-2D	598.00	601.11	23.61	11.77	589.34
MW13-3	595.98	598.67	10.91	8.20	590.47
MW13-3D	592.10	591.94	15.95	4.31	587.63
MW13-4	595.36	598.38	10.94	9.78	588.60
MW13-4D	597.70	599.96	18.73	9.14	590.82
MW13-5A	596.01	595.72	8.07	6.51	589.21
MW13-5D	595.60	597.49	20.71	7.80	589.69
MW13-6	594.64	594.06	6.77	4.25	589.81
MW13-6D	594.64	594.17	8.81	4.51	589.66
PW13-1	595.96	596.41	27.34	6.95	589.46
PW13-4D	598.13	598.50	22.85	9.14	589.36

TABLE A-2

Groundwater Elevations, October 2014

2014 Annual Comprehensive Sampling/Monitoring Report

Niagara Falls Air Reserve Station, New York

Location	Ground Elevation (ft AMSL)	TOIC Elevation (ft AMSL)	Well Depth (10/06/14)	Depth to Water (10/06/14)	Groundwater Elevation (10/06/14)
PZ13-1	596.00	595.60	4.30	4.30	DRY
PZ13-1D	595.90	595.61	17.01	4.80	590.81
PZ13-2	598.70	598.37	5.87	2.41	595.96
PZ13-2D	598.60	598.00	17.25	6.44	591.56
PZ13-3D	595.98	595.44	17.87	6.32	589.12
PZ13-4	597.10	596.26	9.60	6.50	589.76
PZ13-4D	597.10	596.61	22.34	6.21	590.40

TABLE A-3
Surface Water Elevations, June 2014
2014 Annual Comprehensive Sampling/Monitoring Report
Niagara Falls Air Reserve Station, New York

Location	Reference Point Elevation (ft AMSL)	Water Level (6/09/14)	Elevation (6/09/14)
SW3-2	594.55	8.95	585.60
SW3-3	587.78	2.90	584.88
SW10-5	589.49	0.10	589.39
SW10-6	582.65	0.12	582.53
SW10-7	589.56	0.26	589.30
SW8-8	596.84	5.10	591.74
SW8-9	591.17	0.05	591.12
SW99-10	585.58	11.80	573.78
SW99-14	585.93	6.74	579.19

NOTE: AMSL = Above Mean Sea Level

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TABLE A-4
Surface Water Elevations, October 2014
2014 Annual Comprehensive Sampling/Monitoring Report
Niagara Falls Air Reserve Station, New York

Location	Reference Point Elevation (ft AMSL)	Water Level (10/06/14)	Elevation (10/06/14)
SW3-2	594.55	9.08	585.47
SW3-3	587.78	2.70	585.08
SW10-5	589.49	4.75	584.74
SW10-6	582.65	0.30	582.35
SW10-7	589.56	7.20	582.36
SW8-8	596.84	5.65	591.19
SW8-9	591.17	0.50	590.67
SW99-10	585.58	12.00	573.58
SW99-14	585.93	6.22	579.71

NOTE: AMSL = Above Mean Sea Level

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TABLE A-5
Vertical Gradient Summary
2014 Annual Comprehensive Sampling/Monitoring Report
Niagara Falls Air Reserve Station, New York

	Vertical Gradient[a]									
Well Pair	**Jun-10**	**Oct-10**	**Jun-11**	**Oct-11**	**Jun-12**	**Oct-12**	**Jun-13**	**Oct-13**	**Jun-14**	**Oct-14**
MW1-1DA & MW1-7A	14.7%	59.6%	16.7%	54.3%	11.7%	41.0%	32.0%	61.0%	24.7%	6.9%
MW3-1E & MW3-4DA	-2.3%	-1.8%	-1.6%	0.2%	-1.3%	-1.3%	-1.9%	-1.7%	0.0%	0.0%
MW3-2DA & MW3-2	28.7%	30.0%	18.0%	25.3%	-0.3%	22.5%	30.2%	25.0%	34.5%	9.2%
MW3-6D & MW3-6A	-1.1%	-6.4%	-1.8%	-2.8%	-1.3%	-1.0%	-1.7%	-5.6%	-18.7%	-19.1%
MW3-8E & MW3-8D	0.0%	-1.5%	-0.4%	0.5%	-0.4%	-0.6%	-0.7%	-0.3%	0.0%	0.0%
MW3-8D & MW3-8	48.1%	30.4%	45.3%	47.1%	NC	50.0%	58.4%	51.7%	47.1%	40.0%
PZ3-1D & PZ3-1	96.3%	NC	2.0%	-7.0%	-22.0%	34.0%	17.5%	-48.3%	3.0%	-24.3%
PZ3-2D & PZ3-2	21.9%	NC	-10.6%	1.0%	-17.1%	5.0%	-2.9%	NC	1.2%	-5.4%
PZ3-3D & PZ3-3	NC	NC	-30.2%	-10.2%	-24.5%	-17.7%	-28.5%	NC	0.0%	4.0%
PZ3-4D & PZ3-4	NC	NC	NC	NC	NC	NC	-32.5	-8.5	-29.5	-22.1
PZ3-5D & PZ3-5	10.9%	-19.0%	-15.1%	-1.7%	-31.5%	1.7%	NC	NC	NC	0.0%
MW5-1DA & MW5-5A	0.5%	0.3%	-0.9%	2.7%	-2.1%	-1.3%	-1.0%	-1.1%	-48.0%	-11.9%
MW5-2D & MW5-1A	40.5%	6.5%	12.6%	14.4%	10.5%	18.9%	16.3%	2.8%	14.0%	9.7%
MW5-1E & MW5-5D	10.7%	11.5%	10.2%	19.0%	14.7%	14.4%	17.1%	11.0%	6.9%	16.0%
MW5-5D & MW5-6	12.5%	7.7%	14.3%	13.0%	13.2%	17.6%	22.3%	5.2%	9.2%	10.5%
MW7-1D & MW7-2	-4.7%	NC	13.1%	82.9%	11.3%	18.6%	-26.1%	77.0%	17.6%	NC
MW8-1E & MW8-1	17.5%	17.2%	32.8%	26.6%	26.1%	25.5%	25.5%	21.8%	21.4%	5.4%
MW8-2D & MW8-4A	1.4%	0.0%	-2.5%	1.6%	-4.0%	-9.5%	4.1%	-11.9%	3.5%	-2.6%
MW8-10D & MW8-8	-4.2%	-9.6%	-3.4%	-3.1%	-3.7%	-7.8%	-5.0%	-5.1%	-8.7%	NC
MW8-11D & MW8-11	-10.7%	20.6%	-6.1%	-6.0%	-5.9%	-5.2%	-7.0%	-7.5%	-10.8%	-12.2%
MW8-11E & MW8-11D	2.4%	1.4%	4.1%	2.9%	3.3%	4.1%	4.7%	2.9%	3.7%	3.2%
MW10-1F & MW10-1EA	-17.1%	-2.5%	15.7%	-9.4%	-6.8%	-7.8%	15.7%	13.2%	15.8%	-9.7%
MW10-1EA & MW10-1DA	-14.0%	-18.6%	-16.3%	-12.7%	-9.7%	-9.7%	-9.3%	-13.5%	-8.1%	-10.2%
MW10-1DA & MW10-2	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW10-2E & MW10-9D	1.1%	0.5%	2.6%	2.5%	0.9%	3.2%	2.6%	3.8%	-4.1%	-3.0%
MW10-9D & PZ10-7	-1.3%	-11.5%	5.1%	-6.6%	0.4%	-5.0%	-0.5%	-11.5%	18.9%	1.0%
MW10-3E & MW10-3D	10.6%	5.2%	14.4%	5.9%	11.1%	9.1%	12.9%	22.5%	36.8%	8.8%
MW10-4D & MW10-6	NC	3.4%	-10.9%	-7.5%	-11.1%	-6.5%	-13.2%	3.4%	-6.1%	9.4%
MW10-4E & MW10-4D	-24.1%	-21.6%	-11.6%	-16.6%	-15.7%	-13.5%	-12.7%	-24.0%	-3.8%	-12.5%
MW10-8D & MW10-8	6.4%	-1.6%	3.4%	0.7%	1.9%	50.8%	1.8%	-1.1%	6.1%	-1.4%
MW13-1D & MW13-1	NC	47.1%	0.8%	4.5%	4.1%	5.8%	47.1%	5.2%	NC	NC
MW13-1E & MW13-5D	NC	4.7%	-1.5%	40.7%	4.5%	1.3%	-0.1%	35.6%	1.9%	40.4%
MW13-5D & MW13-3	NC	88.2%	105.7%	21.8%	98.0%	109.5%	84.2%	27.6%	83.2%	0.3%
MW13-6 & MW13-6D	14.6%	NC	4.3%	-4.4%	NC	NC	0.8%	-3.7%	7.9%	3.8%
MW13-1E & PW13-1	-61.4%	-67.0%	-33.2%	46.9%	-8.6%	-35.6%	-70.2%	44.4%	-1.0%	54.1%
PW13-4D & MW13-4D	137.0%	148.0%	81.0%	245.0%	544.0%	562.0%	137.0%	39.4%	157.8%	36.9%
PW13-1 & MW13-3	85.2%	203.0%	126.0%	17.0%	92.0%	138.0%	86.4%	19.3%	60.0%	-12.2%
PZ13-1D & PZ13-1	NC	NC	34.8%	17.3%	NC	NC	40.2%	NC	15.6%	NC
PZ13-2D & PZ13-2	48.4%	42.1%	52.8%	76.2%	NC	NC	NC	NC	40.5%	39.9%
PZ13-3D & MW13-5A	11.0%	14.1%	11.1%	3.5%	14.8%	18.1%	NC	-31.5%	8.1%	-2.1%
PZ13-4D & PZ13-4	12.4%	11.3%	16.2%	-14.0%	24.6%	28.2%	24.5%	-3.5%	25.5%	-3.0%
Status of pumping at Site 13 during time of water level measurements:			P	P	P	P				

[a] Negative values indicate an upward gradient and positive values indicate a downward gradient

NOTE: NC = Not calculated due to artesian or dry conditions
NP = Not pumping
P = Pumping

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Appendix B

Weather Data

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2014	Temperature			Dew Point (°F)			Humidity (%)			Sea Level Press. (in.)			Visibility (mi)			Wind (mph)			Precip.	Events
Date	High	Mean	Low	High	Mean	Low	High	Mean	Low	High	Mean	Low	High	Mean	Low	High	Mean	Gust	Inches	
Jan																				
1	19	14	10	10	8	1	85	74	54	30.44	30.36	30.29	10	5	1	16	11	23	0.01	Snow
2	14	10	5	9	5	0	85	79	73	30.33	30.14	30.00	3	2	0	23	15	31	0.13	Snow
3	12	4	-2	3	-3	-10	85	75	60	30.48	30.29	30.08	10	5	1	16	10	24	0	Snow
4	34	23	12	19	9	1	67	52	43	30.29	30.12	30.01	10	10	9	25	16	38	0	
5	35	32	30	31	25	19	96	76	54	30.12	29.81	29.37	10	7	2	15	6		0.22	Rain-Snow
6	44	22	0	41	13	-10	93	76	60	29.94	29.60	29.22	10	6	0	33	22	47	0.24	Rain-Snow
7	6	2	-2	3	-5	-17	87	70	50	30.35	30.14	29.96	10	6	0	37	29	48	0.02	Snow
8	19	12	5	11	6	-4	79	68	61	30.51	30.40	30.32	10	8	2	26	17	37	0	Snow
9	21	14	7	13	7	3	87	73	58	30.69	30.57	30.41	10	9	2	15	7		0	Snow
10	37	28	19	34	26	14	93	88	80	30.39	30.25	30.00	10	4	1	9	4		0	Snow
11	48	42	35	46	39	30	100	90	81	29.80	29.36	29.19	10	6	2	24	14	32	0.12	Rain
12	33	32	30	28	27	25	86	79	75	29.98	29.88	29.71	10	9	7	18	15	28	0	Snow
13	48	42	37	40	34	27	89	71	48	29.81	29.69	29.62	10	10	7	22	14	28	0.12	Rain
14	43	36	28	41	33	24	100	87	68	29.84	29.73	29.62	10	6	3	15	10	25	0.02	Rain
15	35	30	25	29	21	17	85	70	57	30.02	29.89	29.73	10	10	6	28	14	37	0	Snow
16	30	27	24	22	19	14	88	72	51	29.98	29.92	29.84	10	8	2	15	7	24	0	Snow
17	35	31	27	25	23	20	88	76	59	29.86	29.78	29.72	10	7	2	23	10	33	0.01	Snow
18	28	22	17	27	16	10	93	81	68	29.96	29.87	29.78	10	5	1	25	16	36	0	Snow
19	28	22	17	21	18	10	86	78	68	29.85	29.59	29.44	10	5	0	39	22	52	0	Snow
20	30	21	10	27	13	0	93	74	58	30.10	29.76	29.48	10	6	1	18	13	23	0.01	Rain-Snow
21	10	6	3	5	0	-3	85	76	67	30.22	30.11	30.03	10	3	1	15	9		0.01	Snow
22	8	4	1	2	-2	-8	85	77	52	30.18	30.09	30.00	10	6	2	10	4		0	Snow
23	12	6	-2	7	3	-8	88	78	64	30.44	30.20	30.02	10	3	0	16	8		0.01	Snow
24	18	9	0	8	0	-8	80	69	52	30.44	30.14	29.66	10	7	0	34	17	48	0	Snow
25	25	16	8	20	13	-2	93	77	58	29.67	29.38	29.20	10	2	0	31	23	41	0.03	Snow
26	28	14	3	21	6	-9	84	72	55	29.82	29.60	29.43	10	6	1	21	14	26	0	Snow
27	28	14	1	25	10	-10	88	73	53	30.22	29.64	29.30	10	5	0	38	19	47	0.02	Fog-Snow
28	5	2	-2	-1	-5	-12	78	70	57	30.40	30.30	30.21	10	7	1	25	20	33	0	Snow
29	14	8	1	7	2	-7	87	76	63	30.29	30.12	30.02	10	5	0	32	22	41	0	Snow
30	30	19	8	15	3	-1	67	50	28	30.30	30.14	29.86	10	10	10	26	16	37	0	
31	33	30	28	25	22	15	85	70	55	30.20	30.05	29.89	10	9	6	24	16	36	0	Snow
Feb																				
1	39	32	24	36	28	21	96	88	75	30.22	30.03	29.81	7	3	1	15	6	25	0.46	Fog-Rain-Snow
2	34	28	23	32	24	16	96	83	69	30.27	30.06	29.86	10	7	2	15	9		0.1	Rain-Snow
3	24	19	14	18	13	9	82	72	54	30.43	30.30	30.21	10	8	2	12	7		0	Snow
4	24	18	12	15	11	7	85	73	57	30.53	30.44	30.29	10	9	6	10	4		0	
5	23	18	12	20	17	5	93	85	67	30.30	29.99	29.77	10	2	0	25	14	33	0.06	Snow
6	19	10	0	16	7	-4	93	79	68	30.40	30.28	30.17	10	5	1	28	9	40	0.02	Fog-Snow
7	12	9	6	7	3	0	80	76	67	30.35	30.28	30.20	10	5	1	29	20	37	0.01	Snow
8	15	10	5	9	4	0	80	76	68	30.38	30.30	30.20	10	9	2	17	13	23	0	Snow
9	18	13	8	14	10	4	92	82	73	30.25	30.08	29.94	8	3	0	15	6		0.07	Snow
10	19	12	5	10	6	0	92	73	53	30.38	30.21	30.09	10	6	1	16	11	21	0.01	Snow
11	14	7	-2	7	4	-7	87	74	54	30.58	30.44	30.32	10	5	0	15	10	20	0.01	Snow
12	21	6	-9	5	-4	-15	87	68	38	30.57	30.41	30.21	10	9	6	6	1		0	
13	25	14	3	18	9	-3	85	69	53	30.19	29.89	29.53	10	10	7	14	5		0	
14	27	24	21	22	19	17	93	82	71	29.76	29.57	29.44	10	7	2	22	7	22	0.01	Snow
15	25	18	12	21	15	6	88	76	60	30.08	29.87	29.72	10	6	2	17	10		0.01	Snow
16	18	13	8	12	7	-2	84	75	61	30.37	30.10	29.99	10	5	1	14	9		0	Snow
17	30	11	-5	9	1	-9	83	62	38	30.52	30.30	29.80	10	9	4	15	6	24	0	
18	30	26	23	27	21	9	93	79	40	30.04	29.82	29.69	10	3	0	26	18	37	0.02	Fog-Snow
19	42	34	26	32	27	19	92	71	47	30.10	29.78	29.58	10	8	2	22	11	26	0	Rain-Snow
20	37	32	27	33	29	24	92	84	65	30.16	29.98	29.69	10	5	1	18	10	24	0.52	Rain-Snow-T'storm
21	46	40	33	44	30	19	96	79	54	29.78	29.62	29.50	10	7	1	41	18	53	0.09	Rain-Snow-T'storm
22	37	36	34	27	21	18	72	57	50	29.96	29.85	29.73	10	10	3	36	28	50	0	Snow
23	34	30	24	24	19	12	82	66	48	30.02	29.97	29.94	10	10	10	23	13	30	0	
24	23	20	18	14	11	6	78	66	53	30.14	30.03	29.93	10	8	1	25	18	36	0.01	Snow
25	19	16	14	14	9	3	84	71	57	30.13	30.03	29.84	10	7	1	20	14	26	0	Snow
26	19	12	6	15	2	-7	85	64	46	30.07	29.92	29.78	10	7	1	26	20	37	0	Snow
27	17	11	5	9	-1	-9	79	62	41	30.22	29.77	29.49	10	6	0	34	19	46	0	Snow
28	12	6	1	-4	-7	-12	76	56	34	30.47	30.34	30.18	10	10	10	13	9		0	
Mar																				
1	33	22	10	22	12	-3	86	68	40	30.25	30.16	30.09	10	6	1	20	10	24	0.02	Snow
2	16	10	5	12	6	-8	88	76	48	30.32	30.25	30.19	10	4	0	16	10		0	Fog-Snow
3	9	4	-2	1	-3	-9	76	68	50	30.49	30.37	30.25	10	6	1	17	11		0	Snow
4	15	6	-2	10	2	-9	84	71	45	30.47	30.34	30.23	10	7	1	13	7		0.01	Snow
5	21	14	7	12	8	2	88	74	50	30.63	30.40	30.23	10	6	2	15	5		0	Snow
6	25	13	1	5	1	-4	84	61	42	30.68	30.52	30.29	10	10	8	16	8		0	
7	39	24	9	23	13	-1	67	58	48	30.26	30.10	29.91	10	10	10	10	6		0	
8	34	30	24	27	24	16	85	76	66	30.11	29.99	29.88	10	7	2	14	9		0	Snow
9	34	23	14	21	14	9	81	69	59	30.22	30.08	29.82	10	10	10	23	13	32	0	
10	45	39	33	35	29	21	85	74	59	29.83	29.68	29.52	10	8	2	28	15	39	0	Rain-Snow
11	51	42	34	35	33	31	89	76	50	29.73	29.67	29.59	10	6	3	14	9		0	Rain
12	37	24	12	34	21	4	93	86	67	29.83	29.60	29.43	10	2	0	30	14	47	0.63	Fog-Rain-Snow
13	18	10	3	10	1	-4	71	64	47	30.14	29.98	29.78	10	8	2	21	16	26	0.01	Snow
14	50	34	18	36	22	10	76	57	38	30.07	29.78	29.55	10	10	7	26	17	37	0	Rain
15	39	30	21	32	26	11	85	73	56	30.22	29.84	29.61	10	10	7	28	16	37	0	Rain-Snow
16	21	16	12	11	5	-1	71	60	47	30.45	30.33	30.22	10	9	5	18	12	23	0	Snow
17	28	19	10	13	7	1	73	62	47	30.28	30.16	30.07	10	10	10	14	8	18	0	
18	45	32	19	26	17	10	73	60	37	30.16	30.12	30.07	10	10	10	14	7		0	
19	48	39	30	39	32	18	93	70	54	30.07	29.80	29.63	10	10	7	20	11	33	0.36	Rain
20	39	36	32	38	27	21	89	75	61	29.99	29.79	29.63	10	8	5	30	20	38	0.03	Rain-Snow
21	37	30	24	24	20	16	77	66	56	30.13	30.05	29.89	10	10	10	14	9		0	
22	43	34	28	31	26	20	88	72	57	30.15	29.90	29.55	10	9	6	22	17	30	0.01	Rain-Snow
23	27	23	18	15	10	4	74	63	48	30.35	30.26	30.11	10	7	1	21	15	25	0	Snow
24	25	21	17	15	10	5	84	64	46	30.35	30.24	30.11	10	8	2	17	12	23	0	Snow
25	35	27	19	20	13	6	85	62	37	30.12	30.00	29.91	10	10	8	25	12	32	0	
26	24	18	14	8	5	3	68	58	42	30.36	30.23	30.08	10	8	2	20	15	28	0	Snow
27	44	28	12	32	14	4	76	51	26	30.36	30.14	29.89	10	10	10	15	8	25	0	Rain
28	51	44	36	44	37	30	86	74	56	30.22	29.81	29.67	10	10	5	24	14	39	0.03	Rain
29	37	34	30	32	29	27	92	83	75	30.25	30.09	29.98	10	6	0	23	12	31	0.11	Fog-Rain-Snow

2014	Temperature			Dew Point (°F)			Humidity (%)			Sea Level Press. (in.)			Visibility (mi)			Wind (mph)			Precip.	Events
Date	High	Mean	Low	High	Mean	Low	High	Mean	Low	High	Mean	Low	High	Mean	Low	High	Mean	Gust	Inches	
30	44	36	30	29	26	20	93	77	53	30.12	30.01	29.95	10	6	1	23	16	30	0	Snow
31	52	39	27	30	25	18	81	61	41	30.26	30.20	30.11	10	10	10	8	3		0	
Apr																				
1	64	48	32	38	30	24	78	56	34	30.18	29.96	29.75	10	10	10	21	8	25	0	Rain
2	48	38	30	33	27	24	76	66	53	30.25	30.12	30.00	10	10	10	21	12	28	0	
3	41	34	25	29	24	21	85	68	55	30.26	30.16	30.00	10	10	10	18	7	28	0	Snow
4	51	42	34	47	39	23	93	84	64	29.99	29.63	29.41	10	8	2	34	14	48	0.41	Rain
5	39	34	28	33	26	21	89	73	57	30.21	29.89	29.63	10	9	2	32	24	45	0.01	Snow
6	50	36	25	28	25	20	92	65	33	30.25	30.20	30.12	10	10	6	12	5	17	0	
7	55	43	32	41	31	23	93	71	38	30.09	29.83	29.45	10	9	5	17	6		0.58	Rain
8	52	44	34	39	35	31	96	88	49	29.76	29.43	29.24	10	6	2	20	11	25	0.47	Rain
9	48	40	32	33	28	19	92	68	34	30.03	29.91	29.76	10	9	5	17	6		0	
10	68	50	33	48	34	25	93	56	29	30.00	29.84	29.68	10	9	2	30	15	46	0.27	Rain
11	64	48	37	47	37	26	100	76	28	30.07	30.00	29.89	10	6	0	12	5		0	Fog
12	64	50	37	41	37	32	86	65	31	30.18	30.11	29.96	10	9	7	18	7	26	0	Rain
13	73	60	46	55	47	39	80	65	48	30.02	29.85	29.77	10	10	7	23	13	32	0.1	Rain
14	73	58	39	57	48	38	93	75	44	29.74	29.64	29.57	10	8	3	24	12	38	0.27	Rain
15	39	32	24	37	28	10	93	84	54	30.23	29.76	29.61	10	6	1	25	13	32	0.31	Rain-Snow
16	37	30	24	22	15	9	69	54	43	30.57	30.46	30.24	10	10	10	22	13	29	0	
17	59	43	27	36	24	18	75	49	27	30.58	30.48	30.36	10	10	10	13	9		0	
18	57	49	39	41	33	26	86	58	42	30.37	30.28	30.21	10	10	7	17	10	22	0	Rain
19	52	42	32	32	28	25	85	62	39	30.48	30.42	30.33	10	10	9	15	8	25	0	
20	66	48	33	35	29	23	72	49	22	30.44	30.33	30.16	10	10	10	9	6		0	
21	72	59	46	37	33	30	59	40	26	30.14	29.95	29.71	10	10	10	16	8	22	0	
22	61	51	41	53	43	34	97	78	44	29.74	29.63	29.56	10	7	2	26	11	34	0.43	Rain
23	46	40	35	34	30	14	93	72	33	30.10	29.91	29.73	10	9	2	22	16	26	0.05	Rain
24	53	42	32	26	19	12	66	44	23	30.19	30.13	30.04	10	10	10	13	8		0	
25	57	47	37	43	32	21	93	61	28	30.02	29.75	29.59	10	9	3	18	10	24	0.28	Rain
26	48	42	37	42	38	30	93	84	67	30.06	29.81	29.74	10	6	2	17	12		0.05	Rain
27	54	46	37	34	31	28	76	62	38	30.22	30.15	30.07	10	10	10	15	9		0	
28	57	46	35	32	30	28	76	53	36	30.20	30.09	29.97	10	10	10	21	9	28	0	
29	57	52	46	48	42	35	89	72	57	30.04	29.92	29.86	10	8	2	23	15	34	0.48	Rain
30	55	50	46	50	46	39	93	84	66	30.06	29.94	29.79	10	8	4	17	7	24	0.48	Rain
May																				
1	57	50	44	50	44	37	97	84	49	29.80	29.76	29.71	10	6	0	24	10	37	0.03	Fog-Rain
2	53	48	43	43	41	37	90	76	68	29.83	29.75	29.70	10	10	7	22	14	30	0	Rain
3	57	50	44	46	42	39	87	77	57	29.81	29.72	29.62	10	10	5	22	13	32	0.06	Rain
4	57	47	39	38	34	31	83	62	41	30.03	29.83	29.73	10	10	10	26	17	36	0	
5	55	46	36	36	33	30	89	62	37	30.09	30.03	29.95	10	10	10	10	6		0	
6	59	51	45	37	32	30	71	49	35	30.16	30.07	29.97	10	10	10	10	5		0	
7	64	52	41	40	33	29	67	49	32	30.24	30.14	30.07	10	10	10	18	9	20	0	Rain
8	75	62	48	53	47	35	83	62	46	30.10	30.04	29.99	10	10	7	13	5		0.03	Rain-T'storm
9	82	68	55	61	54	46	94	67	35	29.99	29.87	29.76	10	10	9	37	10	54	0.02	Rain-T'storm
10	64	58	50	58	48	41	86	68	48	29.95	29.85	29.75	10	10	10	24	13	31	0.09	
11	71	56	41	43	37	31	89	54	26	30.12	30.06	29.96	10	10	5	14	5	22	0	
12	75	64	52	61	54	39	87	67	53	30.07	30.04	30.02	10	10	10	14	4		0	Rain
13	84	69	54	66	60	48	97	83	49	30.08	30.03	29.94	10	8	2	18	7	25	0.32	Rain-T'storm
14	71	64	59	64	61	56	96	88	73	30.11	30.06	30.00	10	6	1	23	7	38	0.3	Rain-T'storm
15	73	62	50	62	57	48	97	83	57	29.99	29.89	29.80	10	7	2	17	10	29	0.4	Rain
16	50	47	44	48	43	36	93	84	69	30.01	29.92	29.86	10	8	4	17	10		0.26	Rain
17	53	45	39	41	37	32	86	71	54	30.20	30.09	30.00	10	10	10	14	6	22	0.02	Rain
18	60	48	39	41	38	29	96	66	36	30.28	30.24	30.21	10	9	6	15	8	25	0.01	Rain
19	68	54	42	47	42	38	86	65	42	30.27	30.22	30.18	10	10	10	15	7	23	0	Rain
20	70	57	46	52	45	38	89	68	36	30.20	30.11	29.97	10	10	8	12	5		0.15	Rain
21	72	62	51	61	56	48	96	81	66	29.95	29.87	29.81	10	8	2	14	7		0	Rain
22	69	58	51	56	53	47	100	88	58	29.96	29.83	29.77	10	3	0	18	6		0	Fog-Rain-T'storm
23	57	52	46	51	48	43	93	84	77	30.09	30.00	29.94	10	10	4	14	10		0.01	Rain
24	71	58	45	53	48	44	97	73	51	30.15	30.12	30.07	10	9	4	15	6		0	
25	75	60	46	49	46	43	93	62	34	30.17	30.12	30.06	10	9	6	15	7	22	0	
26	80	67	55	56	50	45	74	55	39	30.06	30.00	29.90	10	10	10	18	10	29	0	
27	80	72	63	64	59	51	93	72	54	29.90	29.84	29.80	10	9	2	21	10	26	0.18	Rain-T'storm
28	64	60	55	59	52	47	93	73	59	30.14	30.02	29.84	10	10	4	17	8		0	
29	66	58	53	54	51	48	86	76	65	30.15	30.13	30.10	10	10	10	13	7		0	
30	73	60	46	55	49	46	97	74	44	30.18	30.15	30.13	10	7	0	9	3		0	Fog
31	73	62	52	50	41	34	80	49	25	30.29	30.26	30.19	10	10	10	14	6	21	0	
Jun																				
1	81	64	48	52	45	40	77	51	28	30.27	30.19	30.07	10	10	10	13	5		0	
2	82	72	64	67	61	50	78	65	58	30.06	29.98	29.88	10	10	10	21	12	29	0	Rain
3	79	70	57	67	63	48	94	81	48	29.90	29.84	29.72	10	7	2	26	12	36	0.5	Rain
4	71	62	54	55	50	44	83	66	40	29.90	29.85	29.79	10	10	10	15	7		0	
5	64	54	46	50	46	43	90	70	53	29.94	29.83	29.77	10	10	10	15	6	20	0	
6	73	60	48	50	46	43	86	62	34	30.00	29.98	29.94	10	10	10	14	7		0	
7	80	64	50	54	48	43	89	59	30	30.09	30.01	29.95	10	10	10	9	2		0	
8	78	66	54	62	55	48	93	79	50	29.94	29.87	29.80	10	8	1	14	5		0.49	Rain-T'storm
9	75	66	57	61	57	53	90	73	54	29.99	29.94	29.91	10	10	8	15	7		0	
10	77	68	59	64	59	56	90	73	60	29.97	29.95	29.92	10	10	10	14	5	16	0	
11	82	73	64	68	64	55	90	77	52	29.93	29.84	29.79	10	9	5	16	6	22	0.16	Rain-T'storm
12	79	72	66	69	65	61	93	82	65	29.83	29.79	29.75	10	9	5	17	8	24	0.25	Rain-T'storm
13	73	65	57	66	61	46	93	79	57	29.91	29.77	29.73	10	8	3	17	10	26	0.02	Rain-T'storm
14	64	58	52	53	47	43	86	69	54	30.14	30.06	29.95	10	10	10	17	11		0	
15	73	60	48	56	51	46	93	75	53	30.22	30.16	30.09	10	10	7	12	3		0	
16	82	68	54	67	61	51	90	73	58	30.10	30.02	29.96	10	10	6	21	6	28	0.01	Rain-T'storm
17	88	74	63	71	66	60	93	75	51	30.05	29.89	29.74	10	8	1	25	10	36	0.7	Rain-T'storm
18	75	70	64	65	62	60	90	78	66	30.04	29.98	29.86	10	10	7	18	11		0.01	Rain
19	75	67	57	64	52	41	94	63	29	30.14	30.10	30.03	10	9	6	13	7		0	
20	73	63	53	50	47	41	80	57	35	30.13	30.07	29.99	10	10	10	13	4		0	
21	75	64	55	53	47	44	72	56	38	30.01	29.97	29.93	10	10	10	14	5		0	Rain
22	79	66	54	55	50	45	83	57	35	29.99	29.98	29.96	10	10	10	10	3		0	
23	82	70	57	69	60	49	84	68	48	30.00	29.96	29.91	10	10	10	8	5		0	Rain
24	86	76	69	69	67	64	97	80	55	29.94	29.89	29.82	10	9	2	22	11	34	0.67	Rain-T'storm
25	75	72	66	68	67	64	96	87	73	29.94	29.89	29.85	10	7	2	13	7		0.02	Rain
26	80	73	66	65	61	50	96	77	36	30.04	29.98	29.94	10	8	6	9	5		0	
27	84	72	61	66	62	55	100	81	42	30.14	30.11	30.05	10	5	0	13	3		0	Fog
28	88	76	63	69	64	55	84	68	43	30.19	30.14	30.09	10	10	8	12	5		0	

2014	Temperature			Dew Point (°F)			Humidity (%)			Sea Level Press. (in.)			Visibility (mi)			Wind (mph)			Precip.	Events
Date	High	Mean	Low	High	Mean	Low	High	Mean	Low	High	Mean	Low	High	Mean	Low	High	Mean	Gust	Inches	
29	86	78	70	72	67	62	93	75	57	30.12	30.04	29.96	10	9	2	28	11	43	0.14	Rain-T'storm
30	86	78	69	72	69	67	93	76	57	29.99	29.91	29.80	10	10	7	16	10	24	0	
Jul																				
1	86	79	71	70	68	65	87	72	51	29.8	29.7	29.6	10	10	5	28	15	40	0.1	Rain-T'storm
2	84	77	69	70	65	57	90	72	41	29.9	29.8	29.8	10	10	10	23	11	30	0	Rain
3	73	66	59	65	62	52	90	82	73	30.1	30.0	29.9	10	10	7	15	5		0.07	Rain
4	73	62	53	54	50	44	90	65	38	30.2	30.2	30.1	10	10	10	15	9	18	0	
5	78	66	54	52	49	46	77	53	33	30.3	30.2	30.1	10	10	10	18	9	26	0	
6	81	70	61	61	56	51	90	62	38	30.1	30.0	29.8	10	10	10	23	12	34	0	
7	80	74	68	69	66	60	94	82	68	29.8	29.7	29.6	10	7	2	28	16	38	0.51	Rain-T'storm
8	77	72	63	70	66	58	93	84	73	29.7	29.6	29.5	10	8	2	23	12	45	0.6	Rain-T'storm
9	72	66	57	59	56	52	84	71	53	30.0	29.9	29.7	10	10	10	14	10	21	0	
10	75	62	51	53	51	47	94	66	44	30.2	30.1	30.0	10	10	10	9	3		0	
11	79	66	55	57	54	51	87	64	43	30.2	30.2	30.2	10	10	10	10	3		0	
12	82	71	60	60	57	54	90	62	39	30.2	30.1	30.0	10	10	9	17	4	24	0	
13	82	76	69	71	67	61	93	76	53	29.9	29.8	29.8	10	8	4	22	14	32	0.02	Rain-T'storm
14	79	69	61	67	60	53	100	75	59	29.9	29.9	29.8	10	9	1	10	6		0	
15	78	70	62	68	60	51	93	76	40	29.8	29.7	29.7	10	9	3	23	6	34	0.04	Rain
16	72	62	54	57	53	50	90	73	51	30.0	29.9	29.8	10	10	7	17	9	24	0.17	Rain
17	73	62	51	55	52	49	93	71	51	30.1	30.0	30.0	10	10	10	16	7		0	
18	77	64	52	57	51	44	90	61	33	30.2	30.2	30.2	10	10	9	8	3		0	
19	70	64	59	65	60	54	94	85	68	30.2	30.2	30.1	10	7	2	13	5	20	0.33	Rain
20	78	71	64	64	63	62	93	80	60	30.1	30.1	30.0	10	9	5	10	6		0.01	Rain
21	82	70	60	68	63	59	97	80	56	30.2	30.1	30.1	10	7	2	7	2		0	
22	86	72	60	67	62	57	97	76	47	30.1	30.1	29.9	10	7	1	16	3	23	0	
23	75	70	63	70	64	56	90	78	59	30.0	29.9	29.8	10	8	2	20	11	23	0	Rain
24	73	66	59	54	49	44	78	59	38	30.1	30.0	30.0	10	10	10	13	7	17	0	
25	75	64	53	59	53	50	90	67	43	30.1	30.0	30.0	10	10	5	17	5	22	0	
26	79	70	62	63	58	55	84	66	48	30.0	29.9	29.8	10	10	10	17	8		0	Rain
27	82	72	64	67	64	58	94	76	48	29.7	29.7	29.6	10	8	2	18	13	29	0.43	Rain-T'storm
28	69	64	57	63	59	49	100	88	61	29.9	29.7	29.6	10	7	1	20	11	28	1.14	Rain-T'storm
29	70	62	54	57	53	48	90	73	49	30.0	29.9	29.9	10	10	9	16	9	23	0.03	Rain
30	70	64	57	60	57	53	93	83	70	30.0	30.0	29.9	10	8	0	20	8	33	1.1	Rain-Hail-T'storm
31	75	65	57	61	56	51	93	75	50	30.1	30.0	30.0	10	10	7	17	7	22	0.04	Rain-T'storm
Aug																				
1	80	71	62	65	61	57	93	75	47	30.12	30.09	30.06	10	9	2	14	7		0.2	Rain
2	80	71	62	66	63	60	93	76	56	30.14	30.10	30.05	10	8	5	10	3		0	Thunderstorm
3	73	70	64	65	63	61	94	82	64	30.11	30.08	30.05	10	9	5	9	1		0.03	Rain
4	81	72	62	67	62	59	94	76	47	30.08	30.06	30.02	10	8	3	15	6	21	0	Thunderstorm
5	73	68	62	64	61	58	97	85	61	30.06	30.03	30.00	10	7	0	10	2		0.1	Fog-Rain-T'storm
6	75	68	61	62	56	50	97	70	41	30.01	29.99	29.97	10	9	3	13	3	18	0	
7	75	67	59	60	55	50	90	66	43	30.10	30.05	30.01	10	10	10	13	6	18	0	
8	75	65	55	60	55	52	97	72	46	30.17	30.14	30.10	10	9	2	10	2		0	
9	80	66	54	60	55	51	90	71	45	30.17	30.15	30.12	10	10	9	13	2		0	
10	84	70	57	63	57	53	88	68	41	30.16	30.12	30.06	10	10	10	13	4		0	
11	84	72	61	64	59	54	90	66	44	30.06	29.97	29.81	10	9	7	16	6	24	0	
12	79	72	66	67	64	60	94	83	66	29.80	29.73	29.69	10	9	2	18	13	23	0.34	Rain-T'storm
13	73	65	54	65	57	48	93	75	61	29.91	29.79	29.70	10	10	8	22	12	30	0	
14	66	58	52	53	48	43	93	71	50	29.93	29.89	29.87	10	10	10	18	11	26	0	Rain
15	71	62	54	51	47	46	77	62	41	29.96	29.93	29.91	10	10	10	18	12	22	0	Rain
16	70	62	55	61	56	47	87	75	63	29.93	29.87	29.83	10	10	4	21	11	33	0.21	Rain
17	73	66	59	60	58	55	90	76	53	29.99	29.94	29.84	10	10	8	13	8		0	
18	71	63	55	57	54	52	94	75	57	29.99	29.94	29.89	10	10	10	12	5		0	
19	79	66	53	64	58	50	90	76	54	29.89	29.85	29.83	10	10	9	8	4		0	
20	78	72	68	65	64	58	90	75	64	29.91	29.87	29.80	10	10	10	12	7		0	Rain
21	81	74	68	67	65	63	93	78	58	29.96	29.94	29.90	10	9	4	14	7	20	0	
22	80	70	62	67	64	60	100	85	64	30.00	29.98	29.95	10	6	1	12	4		0	
23	75	70	64	66	64	62	100	89	71	30.11	30.04	29.99	10	6	0	16	9	22	0	Fog
24	80	70	60	64	61	58	93	78	50	30.17	30.14	30.11	10	9	6	12	6		0	
25	82	70	59	63	59	56	94	70	44	30.19	30.13	30.08	10	10	10	14	4	18	0	
26	84	75	66	68	63	59	84	68	52	30.10	30.05	29.97	10	10	9	21	10	26	0	
27	77	70	64	71	59	54	91	70	45	30.07	30.03	29.98	10	9	5	18	8		0.09	Rain
28	71	62	52	54	48	43	93	64	39	30.15	30.09	30.03	10	10	10	15	8	23	0	
29	77	64	50	58	52	47	89	68	38	30.21	30.15	30.09	10	10	10	9	2		0	
30	87	74	62	69	62	55	84	66	48	30.10	30.00	29.90	10	10	9	17	8		0	
31	79	74	70	70	68	66	93	80	74	29.96	29.93	29.91	10	9	5	20	14	25	0	Thunderstorm
Sep																				
1	84	76	69	70	68	67	96	82	60	29.98	29.91	29.79	10	9	4	16	8	22	0	
2	78	72	64	71	67	63	93	87	76	29.91	29.83	29.78	10	9	6	24	12	38	0.9	Rain
3	80	68	55	62	58	54	100	86	48	30.08	29.99	29.92	10	4	0	16	3		0	Fog
4	84	70	57	66	59	55	97	82	40	30.09	30.08	30.00	10	5	0	16	3	23	0	Fog
5	87	78	68	71	66	61	94	76	55	30.08	29.99	29.88	10	7	0	28	11	41	1.2	Fog-Rain-T'storm
6	70	62	54	68	61	47	94	85	63	30.09	29.95	29.84	10	8	2	21	10	26	0.11	Rain-T'storm
7	70	60	50	53	48	42	93	69	38	30.22	30.17	30.09	10	10	10	10	3		0	
8	77	64	50	56	52	47	93	67	37	30.27	30.21	30.14	10	10	10	10	3		0	
9	77	66	57	64	58	53	88	72	55	30.16	30.10	30.04	10	10	10	10	7		0	
10	78	71	64	67	63	60	88	77	62	30.01	29.86	29.60	10	10	5	26	11	36	0.03	Rain
11	75	64	54	70	57	47	90	78	67	30.15	29.82	29.55	10	10	9	31	19	43	0.09	Rain
12	57	52	46	49	44	39	87	73	53	30.30	30.24	30.17	10	10	7	13	7		0	
13	59	52	46	52	47	42	93	84	72	30.33	30.11	30.01	10	8	2	20	7		0.17	Rain
14	60	49	39	47	43	37	93	75	51	30.37	30.31	30.23	10	10	9	8	3		0	
15	66	56	48	53	48	42	93	75	50	30.23	30.14	30.05	10	10	5	13	3	17	0.12	Rain
16	64	58	51	52	48	39	93	74	41	30.11	30.06	30.03	10	9	4	13	6		0.04	Rain
17	69	55	44	49	46	41	93	71	44	30.06	30.01	29.97	10	10	10	17	3	24	0	
18	57	50	42	52	47	40	94	86	71	30.24	30.11	29.98	10	9	3	16	5	23	0	Rain
19	66	52	37	47	39	36	97	82	43	30.35	30.25	30.10	10	6	0	10	2		0	Fog
20	77	66	57	60	57	52	83	69	54	30.09	29.96	29.77	10	10	10	31	15	41	0	
21	75	64	53	65	59	51	93	78	56	29.75	29.64	29.55	10	8	2	29	16	40	0.19	Rain
22	55	50	45	50	43	38	93	75	53	30.24	30.00	29.75	10	8	2	22	16	30	0.06	Rain
23	70	57	44	53	47	39	86	70	46	30.40	30.32	30.25	10	10	10	16	8	18	0	
24	77	60	46	57	50	44	93	75	42	30.52	30.45	30.41	10	9	2	13	3		0	
25	73	60	50	55	51	48	93	78	53	30.42	30.37	30.30	10	10	10	10	3		0	
26	75	60	46	56	50	44	100	78	45	30.35	30.31	30.27	10	8	0	8	1		0	Fog
27	79	62	46	57	50	45	93	75	39	30.32	30.28	30.21	10	8	2	8	1		0	Fog

2014	Temperature			Dew Point (°F)			Humidity (%)			Sea Level Press. (in.)			Visibility (mi)			Wind (mph)			Precip.	Events
Date	High	Mean	Low	High	Mean	Low	High	Mean	Low	High	Mean	Low	High	Mean	Low	High	Mean	Gust	Inches	
28	80	64	50	60	54	47	93	75	46	30.21	30.13	30.03	10	9	5	8	1		0	
29	75	65	55	62	58	52	100	88	46	30.02	29.98	29.88	10	4	0	13	2		0	Fog
30	72	62	53	59	56	51	93	85	61	29.99	29.90	29.86	10	6	2	10	2		0	Fog-Rain
Oct																				
1	68	64	57	59	57	55	94	87	63	30.08	30.01	29.86	10	6	2	12	8		0	Rain
2	73	62	52	58	54	50	97	86	53	30.10	30.06	29.96	10	4	0	12	6		0	Fog
3	78	66	55	62	58	53	93	82	50	29.94	29.65	29.52	10	7	1	25	10	36	0.17	Rain
4	59	52	43	59	47	37	93	82	63	29.71	29.58	29.51	10	9	2	25	12	34	0.48	Rain
5	53	46	39	46	40	37	93	79	63	29.85	29.75	29.66	10	10	6	22	12	30	0.08	Rain
6	64	56	48	53	45	37	93	69	54	29.82	29.76	29.72	10	10	6	24	12	31	0.09	Rain
7	64	58	53	53	50	45	94	78	52	29.84	29.75	29.67	10	9	2	22	12	29	0.32	Rain
8	60	55	46	52	43	31	93	70	42	29.95	29.77	29.66	10	9	4	30	11	39	0.06	Rain
9	60	48	37	40	36	32	89	64	39	30.08	29.99	29.95	10	10	10	23	12	28	0	
10	55	48	41	41	38	36	87	70	51	30.15	30.12	30.07	10	10	10	14	5		0	
11	55	46	37	40	36	32	89	69	43	30.25	30.17	30.10	10	10	10	12	3		0	
12	61	46	32	42	35	28	92	72	39	30.32	30.23	30.13	10	10	9	10	3		0	
13	70	57	44	59	53	38	93	81	68	30.13	30.06	29.99	10	9	4	14	7		0.15	Rain
14	80	70	61	63	59	55	81	67	52	29.97	29.85	29.75	10	10	9	28	13	36	0.03	Rain
15	73	63	54	63	56	53	97	87	73	29.86	29.81	29.72	10	10	5	17	10	24	0.03	Rain
16	64	58	51	57	54	51	100	91	67	29.76	29.69	29.62	10	4	0	17	4	23	0	Fog
17	63	58	54	54	52	50	94	84	69	29.65	29.58	29.51	10	8	2	24	12	33	0.02	Rain
18	57	50	43	47	43	34	93	79	67	29.99	29.70	29.51	10	9	3	23	16	30	0.07	Rain
19	46	42	37	35	30	25	77	62	51	30.15	30.09	30.00	10	10	10	15	11		0	Rain
20	55	47	39	49	42	35	92	77	64	30.01	29.88	29.81	10	9	5	21	7	26	0.04	Rain
21	53	48	44	50	47	42	97	92	83	30.14	29.87	29.77	10	5	2	17	8	25	0.23	Rain
22	48	46	44	42	40	38	93	79	71	30.27	30.21	30.12	10	9	3	14	10		0	
23	59	50	43	42	40	39	89	73	53	30.20	30.12	30.04	10	10	10	15	9		0	
24	55	46	37	45	40	34	93	77	50	30.06	30.02	29.94	10	10	7	14	8	24	0	
25	63	56	51	52	48	40	86	76	62	29.93	29.76	29.62	10	8	6	23	12	38	0	
26	52	45	37	39	37	33	83	68	59	29.94	29.78	29.67	10	10	10	21	14	30	0	
27	60	46	32	43	37	30	93	70	42	30.05	29.95	29.82	10	10	10	9	6		0	Rain
28	73	62	51	57	54	42	90	74	59	29.84	29.78	29.71	10	10	8	25	11	33	0.02	Rain
29	55	50	45	49	38	33	83	65	45	30.00	29.91	29.84	10	10	10	16	13	24	0	
30	48	42	37	38	36	34	93	77	58	30.11	30.06	30.00	10	10	10	13	8		0	
31	48	44	39	42	39	35	93	84	68	30.03	29.96	29.89	10	9	4	10	4		0.07	Rain
Nov																				
1	42	39	35	40	34	28	93	87	73	30.23	30.11	29.98	10	7	4	12	9		0.09	Rain, Snow
2	42	36	30	28	25	22	80	64	47	30.35	30.28	30.21	10	10	10	17	9		0	
3	55	46	37	40	31	24	59	52	37	30.23	30.14	30.07	10	10	10	23	14	31	0	
4	60	56	52	52	40	34	93	56	39	30.07	29.95	29.87	10	10	4	25	18	37	0.2	Rain
5	53	44	35	48	38	33	92	73	52	30.14	30.05	29.90	10	10	5	23	15	29	0	
6	50	42	33	40	37	31	96	86	63	30.06	29.86	29.76	10	7	2	10	4		0	Rain
7	42	37	28	40	30	23	93	77	53	30.04	29.91	29.76	10	8	4	13	8	20	0.08	Rain , Snow
8	45	36	27	40	32	23	89	76	56	30.01	29.81	29.69	10	9	4	22	10	33	0.07	Rain
9	48	39	30	37	32	28	89	72	56	29.96	29.89	29.81	10	10	9	17	9	25	0	Rain
10	57	49	41	36	33	30	76	58	42	30.06	29.97	29.86	10	10	10	17	9		0	
11	66	57	48	50	40	35	83	54	40	29.86	29.78	29.69	10	10	10	20	10	25	0	
12	54	44	33	49	28	19	90	66	54	30.19	30.03	29.73	10	10	5	23	17	32	0.02	Rain
13	33	30	26	28	25	20	93	78	59	30.17	30.10	30.04	10	6	1	15	10		0	Snow
14	35	30	24	24	20	18	79	67	50	30.30	30.15	30.04	10	10	10	20	12	21	0	Snow
15	36	28	21	26	20	17	89	69	46	30.38	30.32	30.26	10	10	8	18	8	25	0	
16	34	31	28	30	27	21	100	86	67	30.26	30.10	29.93	10	3	1	10	4		0.13	Snow
17	33	28	21	32	29	11	100	90	57	29.94	29.71	29.51	10	3	0	26	7	33	0.11	Snow
18	23	20	16	10	8	5	65	60	50	30.06	29.85	29.71	10	10	10	39	24	50	0	
19	32	24	15	30	16	8	92	79	60	30.15	29.97	29.69	10	3	0	29	14	41	0.13	Fog , Snow
20	28	24	18	20	14	10	75	66	51	30.06	29.88	29.74	10	9	4	30	20	38	0	Snow
21	26	22	17	18	12	8	81	69	55	30.50	30.35	30.09	10	9	2	20	13	25	0	Snow
22	46	36	25	40	32	15	93	78	48	30.37	30.06	29.96	10	8	2	25	17	36	0.04	Rain
23	52	48	44	43	40	37	89	75	57	30.05	29.93	29.60	10	10	6	17	13	23	0.09	Rain
24	64	53	42	51	44	32	90	73	56	29.68	29.38	29.20	10	9	2	37	23	55	0.32	Rain
25	42	38	33	31	28	20	78	69	56	30.23	29.93	29.69	10	10	9	34	26	48	0	Rain
26	34	31	28	30	26	20	92	80	61	30.25	30.14	30.06	10	8	1	14	6		0	Snow
27	35	32	28	29	25	21	96	83	59	30.18	30.09	30.04	10	4	0	20	8	28	0.06	Fog , Snow
28	26	22	19	18	14	11	80	72	60	30.32	30.26	30.20	10	7	1	18	13		0	Snow
29	46	34	23	34	23	17	84	70	57	30.23	30.07	29.84	10	10	7	20	8	31	0	
30	57	51	43	52	46	34	93	78	63	29.92	29.82	29.77	10	9	2	24	17	31	0.16	Rain
Dec																				
1	42	33	24	39	27	12	89	72	52	30.69	30.27	29.95	10	10	8	21	12	25	0	
2	35	26	18	34	22	11	96	80	56	30.69	30.33	30.05	10	7	2	17	8		0.02	Rain, Snow
3	37	34	30	36	32	19	97	85	61	30.25	30.03	29.96	10	6	2	26	14	38	0.03	Rain
4	32	28	23	19	18	15	85	68	52	30.52	30.43	30.27	10	10	10	14	10		0	
5	39	31	23	33	26	19	89	78	62	30.49	30.34	30.2	10	10	6	10	6		0	Snow
6	39	36	30	34	30	21	93	79	61	30.57	30.29	30.18	10	7	4	16	7		0	
7	30	26	23	21	16	13	74	66	51	30.79	30.71	30.59	10	10	10	13	10		0	
8	39	30	21	27	16	9	78	57	28	30.61	30.39	30.2	10	10	10	14	8	18	0	
9	42	38	33	33	31	28	92	80	67	30.19	30.13	30.08	10	9	3	14	7		0	Rain
10	34	30	24	32	24	21	92	83	75	30.13	30	29.83	10	6	0	20	14	26	0.06	Fog, Snow
11	27	26	24	25	21	20	92	87	78	29.99	29.82	29.76	10	2	0	18	11	22	0.22	Fog, Snow
12	33	29	25	30	25	21	93	84	69	30.17	30.09	29.98	10	6	2	16	10		0.01	Rain, Snow
13	35	32	30	33	30	28	92	89	87	30.15	30.05	29.93	6	4	2	22	14	30	0	
14	37	36	34	34	34	33	96	93	89	30.11	30	29.91	8	4	2	13	9		0	
15	39	36	34	36	35	32	100	94	86	30.14	30.05	29.95	10	3	0	8	5		0	Fog
16	44	38	32	42	36	31	100	95	89	29.98	29.8	29.69	10	4	0	17	7	24	0.27	Fog, Rain
17	42	36	28	40	32	24	96	88	78	30.04	29.91	29.77	10	5	1	24	16	34	0.14	Rain, Snow
18	32	30	28	28	26	22	89	83	76	30.15	30.09	30	10	9	4	18	14	26	0	Rain, Snow
19	28	26	24	22	21	20	88	79	72	30.32	30.21	30.09	10	8	2	14	10		0	Snow
20	30	26	23	23	22	19	88	80	69	30.35	30.3	30.22	10	9	7	6	2		0	
21	33	29	25	24	22	20	88	75	61	30.37	30.33	30.27	10	9	6	7	2		0	
22	37	32	26	27	24	21	84	74	60	30.29	30.17	30.06	10	10	7	9	6		0	
23	48	40	32	43	36	27	92	84	71	30.06	29.94	29.87	10	9	6	10	6		0	
24	55	49	42	48	46	37	93	83	77	29.84	29.52	29.19	10	9	2	40	10	48	0.18	Rain
25	41	39	37	35	32	28	83	75	63	30.15	29.8	29.35	10	10	8	41	27	60	0	Rain
26	45	40	35	33	31	29	86	75	60	30.24	30.18	30.12	10	10	10	20	13	26	0	
27	52	44	35	42	38	32	89	74	59	30.18	30.06	29.88	10	10	10	24	10	33	0	Rain
28	48	38	26	43	30	21	93	79	64	30.17	29.99	29.85	10	9	6	21	15	31	0.17	Rain
29	30	26	21	23	20	13	88	75	59	30.38	30.26	30.17	10	7	1	13	7		0	Snow
30	26	24	21	20	17	10	92	80	55	30.51	30.43	30.38	10	4	0	12	5		0.02	Fog, Snow
31	19	16	14	8	7	6	71	66	59	30.41	30.39	30.34	10	10	10	20	18	29	0	

Appendix C

Laboratory Data and Data Validation Reports

SUMMARY OF THE ANALYTICAL DATA USABILITY
NFARS, Niagara Falls, NY

Water Volatile Organic Analyses
Samples Collected: June 27, 2014
Samples Received: July 1, 2014
Sample Delivery Group: MC31799
Laboratory Reference Numbers:

Lab Sample ID	Field ID
MC31799-1	MW8-11D-2014-06-27
MC31799-2	MW3-3DA-2014-06-27
MC31799-3	MW3-4DA-2014-06-27
MC31799-4	PW3-3A-2014-06-27
MC31799-4MS	PW3-3A-2014-06-27 MS
MC31799-4MSD	PW3-3A-2014-06-27 MSD
MC31799-5	PZ3-6D-2014-06-27
MC31799-6	PZ3-7D-2014-06-27
MC31799-7	PZ3-8D-2014-06-27
MC31799-8	MW5-1DA-2014-06-27
MC31799-9	MW5-5D-2014-06-27
MC31799-9 DL	MW5-5D-2014-06-27 DL
MC31799-10	MW5-6-2014-06-27
MC31799-11	RW5-1-2014-06-27
MC31799-11 DL	RW5-1-2014-06-27 DL
MC31799-12	RW5-2-2014-06-27
MC31799-13	RW-5-4-2014-06-27
MC31799-14	MW8-1-2014-06-27
MC31799-15	MW8-10D-2014-06-27
MC31799-16	MW10-3-2014-06-27
MC31799-16 DL	MW10-3-2014-06-27 DL
MC31799-17	MW10-7-2014-06-27
MC31799-17 MS	MW10-7-2014-06-27 MS
MC31799-17 MSD	MW10-7-2014-06-27 MSD
MC31799-18	PW10-1-2014-06-27
MC31799-19	PW10-2-2014-06-27
MC31799-20	PZ10-7-2014-06-27
MC31799-21	MW13-4D-2014-06-27
MC31799-22	MW13-5D-2014-06-27
MC31799-23	SW03-02-2014-06-27
MC31799-24	SW03-03-2014-06-27
MC31799-24MS	SW03-03-2014-06-27 MS
MC31799-24MSD	SW03-03-2014-06-27 MSD
MC31799-25	SW03-15-2014-06-27
MC31799-26	SW10-05-2014-06-27
MC31799-27	SW10-06-2014-06-27
MC31799-28	SW10-07-2014-06-27
MC31799-29	SW99-10-2014-06-27
MC31799-30	FD-140627-01
MC31799-31	FD-140627-02
MC31799-32	SW-FD-140627
MC31799-33	Field Blank PDB-BLANK-140627
MC31799-34	Trip Blank Water TB-140627

Water samples were validated for analyses of volatile organics by the US EPA Region II data validation SOP (HW-24, Revision 2). Data were reviewed for usability according to the following criteria:

* * - Data Completeness
* * - GC/MS Tuning
* * - Holding Times
* - Calibrations
* * - Laboratory Blanks
* * - Trip Blank
* - Field Blank
* * - Equipment Blank
* - Storage Blank
* * - System Monitoring Compound Recoveries
* * - Internal Standard Recoveries
* - Matrix Spike / Matrix Spike Duplicate
* - Laboratory Control Samples
* * - Compound Identification
* * - Compound Quantitation

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

The problems with the calibrations, laboratory control samples and matrix spikes should be noted. These are described in detail below.

Holding Times

Preserved aqueous samples were analyzed within 14 days of collection.

Tunes

No problems were detected with the tunes associated with the samples of this delivery group.

System Monitoring Compound Recoveries

All of the surrogate recoveries were within the required limits.

Calibrations

The percent RSDs of all of the compounds in the initial calibration were less than 20%.

All of the percent differences in the 7/3 continuing calibration were less than 20%.

All of the percent differences in the 7/7 continuing calibration were less than 20% with the following exceptions:

Compound	%D
1,2,3-Trichlorobenzene	25%
1,2,4-Trichlorobenzene	22%
2-Hexanone	35%
Dichlorodifluoromethane	42%

This continuing calibration was associated with the analyses of the following samples:

MC31799-31	FD-140627-02
MC31799-32	SW-FD-140627
MC31799-33	Equipment Blank PDB-BLANK-140627
MC31799-34	Trip Blank Water TB-140627

All of the percent differences in the 7/8 continuing calibration were less than 20% with the exception of dichlorodifluoromethane (36%).

This continuing calibration was associated with the analyses of the following samples:

MC31799-9 DL	MW5-5D-2014-06-27 DL
MC31799-10	MW5-6-2014-06-27
MC31799-11 DL	RW5-1-2014-06-27 DL
MC31799-16 DL	MW10-3-2014-06-27 DL
MC31799-17	MW10-7-2014-06-27
MC31799-19	PW10-2-2014-06-27
MC31799-20	PZ10-7-2014-06-27
MC31799-21	MW13-4D-2014-06-27
MC31799-22	MW13-5D-2014-06-27
MC31799-23	SW03-02-2014-06-27
MC31799-24	SW03-03-2014-06-27
MC31799-25	SW03-15-2014-06-27
MC31799-26	SW10-05-2014-06-27
MC31799-27	SW10-06-2014-06-27
MC31799-28	SW10-07-2014-06-27
MC31799-29	SW99-10-2014-06-27
MC31799-30	FD-140627-01

The data for the compounds with high %Ds were flagged with the "J" qualifier and are estimated values.

Matrix Spike and Matrix Spike Duplicate

Three samples were analyzed for matrix spikes and matrix spike duplicates.

Sample MC31799-4 / PW3-3A-2014-06-27 was used as the first matrix spike.

All recoveries were within the required 70% - 130% quality control range with the following exceptions:

Compound	% Rec. MS	% Rec. MSD	RPD
2-Butanone (MEK)	54%	58%	
Acetone	54%	51%	

This matrix spike was associated with the following samples:

MC31799-4	PW3-3A-2014-06-27
MC31799-5	PZ3-6D-2014-06-27
MC31799-6	PZ3-7D-2014-06-27
MC31799-7	PZ3-8D-2014-06-27
MC31799-11	RW5-1-2014-06-27
MC31799-12	RW5-2-2014-06-27
MC31799-13	RW-5-4-2014-06-27
MC31799-18	PW10-1-2014-06-27
MC31799-19	PW10-2-2014-06-27
MC31799-20	PZ10-7-2014-06-27
MC31799-31	FD-140627-02

Sample MC31799-17 / MW10-7-2014-06-27 was used as the second matrix spike.

All recoveries were within the required 70% - 130% quality control range with the following exceptions:

Compound	% Rec. MS	% Rec. MSD	RPD
2-Butanone (MEK)	55%	53%	
2-Hexanone	66%	68%	
Acetone	48%	45%	
Dichlorodifluoromethane		69%	

This matrix spike was associated with the following samples:

MC31799-1	MW8-11D-2014-06-27
MC31799-2	MW3-3DA-2014-06-27
MC31799-3	MW3-4DA-2014-06-27
MC31799-8	MW5-1DA-2014-06-27
MC31799-9	MW5-5D-2014-06-27
MC31799-10	MW5-6-2014-06-27
MC31799-14	MW8-1-2014-06-27
MC31799-15	MW8-10D-2014-06-27
MC31799-16	MW10-3-2014-06-27
MC31799-17	MW10-7-2014-06-27
MC31799-21	MW13-4D-2014-06-27
MC31799-22	MW13-5D-2014-06-27
MC31799-30	FD-140627-01

Sample MC31799-24 / SW03-03-2014-06-27 was used as the third matrix spike.

All recoveries were within the required 70% - 130% quality control range with the following exceptions:

Compound	% Rec. MS	% Rec. MSD	RPD
2-Butanone (MEK)	55%	49%	
2-Hexanone	66%	65%	
Acetone	48%	47%	
Carbon disulfide		69%	
Dichlorodifluoromethane	68%		

This matrix spike was associated with the following samples:

MC31799-23	SW03-02-2014-06-27
MC31799-24	SW03-03-2014-06-27
MC31799-25	SW03-15-2014-06-27
MC31799-26	SW10-05-2014-06-27
MC31799-27	SW10-06-2014-06-27
MC31799-28	SW10-07-2014-06-27
MC31799-29	SW99-10-2014-06-27
MC31799-32	SW-FD-140627

The data for the compounds with low recoveries were flagged with the "J" qualifier and are estimated values.

Laboratory Control Sample

The recoveries of all compounds were within the 70% - 130% quality control limits with the following exceptions in the 7/3 laboratory control sample:

Compound	% Recovery
2-Butanone	64%
Acetone	54%

This laboratory control samples was associated with the analyses of the following samples:

MC31799-1	MW8-11D-2014-06-27
MC31799-2	MW3-3DA-2014-06-27
MC31799-3	MW3-4DA-2014-06-27
MC31799-4	PW3-3A-2014-06-27
MC31799-4MS	PW3-3A-2014-06-27 MS
MC31799-4MSD	PW3-3A-2014-06-27 MSD
MC31799-5	PZ3-6D-2014-06-27
MC31799-6	PZ3-7D-2014-06-27
MC31799-7	PZ3-8D-2014-06-27
MC31799-8	MW5-1DA-2014-06-27
MC31799-9	MW5-5D-2014-06-27
MC31799-11	RW5-1-2014-06-27
MC31799-12	RW5-2-2014-06-27
MC31799-13	RW-5-4-2014-06-27
MC31799-14	MW8-1-2014-06-27

MC31799-15	MW8-10D-2014-06-27
MC31799-16	MW10-3-2014-06-27
MC31799-18	PW10-1-2014-06-27

The recoveries of all compounds were within the 70% - 130% quality control limits with the following exceptions in the 7/7 laboratory control sample:

Compound	**% Recovery**
2-Butanone	62%
Acetone	54%

This laboratory control samples was associated with the analyses of the following samples:

MC31799-31	FD-140627-02
MC31799-32	SW-FD-140627
MC31799-33	Equipment Blank PDB-BLANK-140627
MC31799-34	Trip Blank Water TB-140627

The recoveries of all compounds were within the 70% - 130% quality control limits with the following exceptions in the 7/8 laboratory control sample:

Compound	**% Recovery**
2-Butanone	55%
Acetone	49%
2-Hexanone	69%

This laboratory control samples was associated with the analyses of the following samples:

MC31799-9 DL	MW5-5D-2014-06-27 DL
MC31799-10	MW5-6-2014-06-27
MC31799-11 DL	RW5-1-2014-06-27 DL
MC31799-16 DL	MW10-3-2014-06-27 DL
MC31799-17	MW10-7-2014-06-27
MC31799-19	PW10-2-2014-06-27
MC31799-20	PZ10-7-2014-06-27
MC31799-21	MW13-4D-2014-06-27
MC31799-22	MW13-5D-2014-06-27
MC31799-23	SW03-02-2014-06-27
MC31799-24	SW03-03-2014-06-27
MC31799-25	SW03-15-2014-06-27
MC31799-26	SW10-05-2014-06-27
MC31799-27	SW10-06-2014-06-27
MC31799-28	SW10-07-2014-06-27
MC31799-29	SW99-10-2014-06-27
MC31799-30	FD-140627-01

The data for the compounds with low recoveries were flagged with the "J" qualifier and are estimated values.

Method Blanks

No compounds were detected in the method blanks.

Trip Blank

No compounds were detected in the trip blank.

Field Blank

No compounds were detected in the field blank.

Internal Standard Areas and Retention Times

The recoveries and retention times of all internal standards were within the required quality control limits.

Sample Results

No problems were detected with the samples.

New England ACCUTEST LABORATORIES

07/09/14

Technical Report for

EA Engineering

NFARS, Niagara Falls, NY

6265401 Semi-Annual Spring 2014

Accutest Job Number: MC31799

Sampling Date: 06/27/14

Report to:

EA Engineering
6712 Brooklawn Parkway
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Total number of pages in report: **439**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Reza Tand
Lab Director

Client Service contact: Frank DAgostino 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Accutest Laboratories

Sample Summary

EA Engineering

Job No: MC31799

NFARS, Niagara Falls, NY
Project No: 6265401 Semi-Annual Spring 2014

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC31799-1	06/27/14	11:49	RPHLD	07/01/14	AQ	Ground Water	MW8-11D-2014-06-27
MC31799-2	06/27/14	09:50	RPHLD	07/01/14	AQ	Ground Water	MW3-3DA-2014-06-27
MC31799-3	06/27/14	10:30	RPHLD	07/01/14	AQ	Ground Water	MW3-4DA-2014-06-27
MC31799-4	06/27/14	10:20	RPHLD	07/01/14	AQ	Ground Water	PW3-3A-2014-06-27
MC31799-4D	06/27/14	10:20	RPHLD	07/01/14	AQ	Water Dup/MSD	PW3-3A-2014-06-27
MC31799-4S	06/27/14	10:20	RPHLD	07/01/14	AQ	Water Matrix Spike	PW3-3A-2014-06-27
MC31799-5	06/27/14	10:00	RPHLD	07/01/14	AQ	Ground Water	PZ3-6D-2014-06-27
MC31799-6	06/27/14	14:55	RPHLD	07/01/14	AQ	Ground Water	PZ3-7D-2014-06-27
MC31799-7	06/27/14	15:00	RPHLD	07/01/14	AQ	Ground Water	PZ3-8D-2014-06-27
MC31799-8	06/27/14	12:32	RPHLD	07/01/14	AQ	Ground Water	MW5-1DA-2014-06-27
MC31799-9	06/27/14	12:22	RPHLD	07/01/14	AQ	Ground Water	MW5-5D-2014-06-27
MC31799-10	06/27/14	12:20	RPHLD	07/01/14	AQ	Ground Water	MW5-6-2014-06-27
MC31799-11	06/27/14	12:27	RPHLD	07/01/14	AQ	Ground Water	RW5-1-2014-06-27

Sample Summary
(continued)

EA Engineering

Job No: MC31799

NFARS, Niagara Falls, NY
Project No: 6265401 Semi-Annual Spring 2014

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC31799-12	06/27/14	12:39	RPHLD	07/01/14	AQ	Ground Water	RW5-2-2014-06-27
MC31799-13	06/27/14	12:13	RPHLD	07/01/14	AQ	Ground Water	RW-5-4-2014-06-27
MC31799-14	06/27/14	11:20	RPHLD	07/01/14	AQ	Ground Water	MW8-1-2014-06-27
MC31799-15	06/27/14	11:55	RPHLD	07/01/14	AQ	Ground Water	MW8-10D-2014-06-27
MC31799-16	06/27/14	14:15	RPHLD	07/01/14	AQ	Ground Water	MW10-3-2014-06-27
MC31799-17	06/27/14	13:48	RPHLD	07/01/14	AQ	Ground Water	MW10-7-2014-06-27
MC31799-17D	06/27/14	13:48	RPHLD	07/01/14	AQ	Water Dup/MSD	MW10-7-2014-06-27
MC31799-17S	06/27/14	13:48	RPHLD	07/01/14	AQ	Water Matrix Spike	MW10-7-2014-06-27
MC31799-18	06/27/14	14:28	RPHLD	07/01/14	AQ	Ground Water	PW10-1-2014-06-27
MC31799-19	06/27/14	14:25	RPHLD	07/01/14	AQ	Ground Water	PW10-2-2014-06-27
MC31799-20	06/27/14	13:55	RPHLD	07/01/14	AQ	Ground Water	PZ10-7-2014-06-27
MC31799-21	06/27/14	12:50	RPHLD	07/01/14	AQ	Ground Water	MW13-4D-2014-06-27
MC31799-22	06/27/14	12:45	RPHLD	07/01/14	AQ	Ground Water	MW13-5D-2014-06-27

Sample Summary
(continued)

EA Engineering

Job No: MC31799

NFARS, Niagara Falls, NY
Project No: 6265401 Semi-Annual Spring 2014

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC31799-23	06/27/14	14:50	RPHLD	07/01/14	AQ	Surface Water	SW03-02-2014-06-27
MC31799-24	06/27/14	10:58	RPHLD	07/01/14	AQ	Surface Water	SW03-03-2014-06-27
MC31799-24D	06/27/14	10:58	RPHLD	07/01/14	AQ	Water Dup/MSD	SW03-03-2014-06-27
MC31799-24S	06/27/14	10:58	RPHLD	07/01/14	AQ	Water Matrix Spike	SW03-03-2014-06-27
MC31799-25	06/27/14	11:10	RPHLD	07/01/14	AQ	Surface Water	SW03-15-2014-06-27
MC31799-26	06/27/14	14:30	RPHLD	07/01/14	AQ	Surface Water	SW10-05-2014-06-27
MC31799-27	06/27/14	14:00	RPHLD	07/01/14	AQ	Surface Water	SW10-06-2014-06-27
MC31799-28	06/27/14	14:05	RPHLD	07/01/14	AQ	Surface Water	SW10-07-2014-06-27
MC31799-29	06/27/14	13:15	RPHLD	07/01/14	AQ	Surface Water	SW99-10-2014-06-27
MC31799-30	06/27/14	00:00	RPHLD	07/01/14	AQ	Ground Water	FD-140627-01
MC31799-31	06/27/14	00:00	RPHLD	07/01/14	AQ	Ground Water	FD-140627-02
MC31799-32	06/27/14	00:00	RPHLD	07/01/14	AQ	Surface Water	SW-FD-140627
MC31799-33	06/27/14	15:10	RPHLD	07/01/14	AQ	Equipment Blank	PDB-BLANK-140627

Sample Summary
(continued)

EA Engineering

Job No: MC31799

NFARS, Niagara Falls, NY
Project No: 6265401 Semi-Annual Spring 2014

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
MC31799-34	06/27/14	15:05	RPHLD	07/01/14	AQ	Trip Blank Water	TB-140627

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: EA Engineering **Job No** MC31799

Site: NFARS, Niagara Falls, NY **Report Date** 7/9/2014 12:31:52 PM

33 Sample(s) and 1 Trip Blank(s) were collected on 06/27/2014 and were received at Accutest on 07/01/2014 properly preserved, at 1.4 Deg. C and intact. These Samples received an Accutest job number of MC31799. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** MSU934

- All samples were analyzed within the recommended method holding time.
- Sample(s) MC31799-4MS, MC31799-4MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for 2-Butanone (MEK), Acetone are outside control limits. Blank Spike meets program technical requirements.
- MC31799-4MS/MSD Recovery(s) for 2-Butanone (MEK), Acetone are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Initial calibration verification standard MSU915-ICV915 for dichlorodifluoromethane exceed 30% difference (response bias high). Associated samples are non-detect for this compound

Matrix: AQ **Batch ID:** MSU936

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC31807-1MS, MC31807-1MSD were used as the QC samples indicated.
- Continuing calibration check standard MSU936-CC915 for dichlorodifluoromethane exceed 40% difference (response bias high). Associated samples are non-detect for this compound.
- Blank Spike Recovery(s) for 2-Butanone (MEK), Acetone are outside control limits. Blank Spike meets program technical requirements.
- Matrix Spike Recovery(s) for 2-Butanone (MEK), Acetone are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for 1,2,3-Trichlorobenzene, 2-Butanone (MEK), Acetone are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.

Matrix: AQ **Batch ID:** MSU937

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC31799-17MS, MC31799-17MSD, MC31799-24MS, MC31799-24MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for 2-Butanone (MEK), 2-Hexanone, Acetone are outside control limits. Blank Spike meets program technical requirements.
- MC31799-17MS Recovery(s) for 2-Butanone (MEK), 2-Hexanone, Acetone are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- MC31799-17MSD Recovery(s) for 2-Butanone (MEK), 2-Hexanone, Acetone, Dichlorodifluoromethane are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- MC31799-24MS Recovery(s) for 2-Butanone (MEK), 2-Hexanone, Acetone, Dichlorodifluoromethane are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- MC31799-24MSD Recovery(s) for Carbon disulfide, 2-Butanone (MEK), 2-Hexanone, Acetone are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(MC31799).

Summary of Hits

Job Number: MC31799
Account: EA Engineering
Project: NFARS, Niagara Falls, NY
Collected: 06/27/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC31799-1	**MW8-11D-2014-06-27**					
1,2-Dichloroethane		1.4	1.0	0.50	ug/l	SW846 8260C
MC31799-2	**MW3-3DA-2014-06-27**					
cis-1,2-Dichloroethene		5.4	1.0	0.84	ug/l	SW846 8260C
Vinyl chloride		23.1	1.0	0.58	ug/l	SW846 8260C
MC31799-3	**MW3-4DA-2014-06-27**					
cis-1,2-Dichloroethene		5.6	1.0	0.84	ug/l	SW846 8260C
Vinyl chloride		12.6	1.0	0.58	ug/l	SW846 8260C
MC31799-4	**PW3-3A-2014-06-27**					
cis-1,2-Dichloroethene		4.9	1.0	0.84	ug/l	SW846 8260C
Trichloroethene		0.80 J	1.0	0.47	ug/l	SW846 8260C
Vinyl chloride		3.9	1.0	0.58	ug/l	SW846 8260C
MC31799-5	**PZ3-6D-2014-06-27**					
cis-1,2-Dichloroethene		1.1	1.0	0.84	ug/l	SW846 8260C
Vinyl chloride		2.2	1.0	0.58	ug/l	SW846 8260C
MC31799-6	**PZ3-7D-2014-06-27**					
cis-1,2-Dichloroethene		8.0	1.0	0.84	ug/l	SW846 8260C
Vinyl chloride		31.7	1.0	0.58	ug/l	SW846 8260C
MC31799-7	**PZ3-8D-2014-06-27**					
No hits reported in this sample.						
MC31799-8	**MW5-1DA-2014-06-27**					
No hits reported in this sample.						
MC31799-9	**MW5-5D-2014-06-27**					
Acetone		2.8 J	10	2.5	ug/l	SW846 8260C
1,1-Dichloroethene		2.6	1.0	0.61	ug/l	SW846 8260C
cis-1,2-Dichloroethene		2120	100	84	ug/l	SW846 8260C
trans-1,2-Dichloroethene		27.5	1.0	0.51	ug/l	SW846 8260C
Trichloroethene		1.5	1.0	0.47	ug/l	SW846 8260C

Summary of Hits

Job Number: MC31799
Account: EA Engineering
Project: NFARS, Niagara Falls, NY
Collected: 06/27/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Vinyl chloride		4300	100	58	ug/l	SW846 8260C
MC31799-10	**MW5-6-2014-06-27**					
Chloroethane		5.4	2.0	0.53	ug/l	SW846 8260C
cis-1,2-Dichloroethene		32.7	1.0	0.84	ug/l	SW846 8260C
Trichloroethene		1.8	1.0	0.47	ug/l	SW846 8260C
Vinyl chloride		39.0	1.0	0.58	ug/l	SW846 8260C
MC31799-11	**RW5-1-2014-06-27**					
1,1-Dichloroethene		10.9	1.0	0.61	ug/l	SW846 8260C
cis-1,2-Dichloroethene		5210	100	84	ug/l	SW846 8260C
trans-1,2-Dichloroethene		20.9	1.0	0.51	ug/l	SW846 8260C
Trichloroethene		573	100	47	ug/l	SW846 8260C
Vinyl chloride		229	1.0	0.58	ug/l	SW846 8260C
MC31799-12	**RW5-2-2014-06-27**					
cis-1,2-Dichloroethene		150	1.0	0.84	ug/l	SW846 8260C
trans-1,2-Dichloroethene		0.64 J	1.0	0.51	ug/l	SW846 8260C
Vinyl chloride		66.9	1.0	0.58	ug/l	SW846 8260C
MC31799-13	**RW-5-4-2014-06-27**					
Carbon disulfide		0.50 J	5.0	0.46	ug/l	SW846 8260C
cis-1,2-Dichloroethene		219	1.0	0.84	ug/l	SW846 8260C
Vinyl chloride		276	1.0	0.58	ug/l	SW846 8260C
MC31799-14	**MW8-1-2014-06-27**					
Carbon disulfide		0.46 J	5.0	0.46	ug/l	SW846 8260C
cis-1,2-Dichloroethene		10.1	1.0	0.84	ug/l	SW846 8260C
Vinyl chloride		26.7	1.0	0.58	ug/l	SW846 8260C
MC31799-15	**MW8-10D-2014-06-27**					
cis-1,2-Dichloroethene		8.0	1.0	0.84	ug/l	SW846 8260C
trans-1,2-Dichloroethene		1.3	1.0	0.51	ug/l	SW846 8260C
Trichloroethene		1.1	1.0	0.47	ug/l	SW846 8260C
Vinyl chloride		2.0	1.0	0.58	ug/l	SW846 8260C
MC31799-16	**MW10-3-2014-06-27**					
Carbon disulfide		5.4	5.0	0.46	ug/l	SW846 8260C

Summary of Hits

Job Number: MC31799
Account: EA Engineering
Project: NFARS, Niagara Falls, NY
Collected: 06/27/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Carbon tetrachloride		506	10	5.3	ug/l	SW846 8260C
Chloroform		327	1.0	0.41	ug/l	SW846 8260C
Cyclohexane		1.0 J	5.0	0.62	ug/l	SW846 8260C
cis-1,2-Dichloroethene		48.0	1.0	0.84	ug/l	SW846 8260C
trans-1,2-Dichloroethene		1.5	1.0	0.51	ug/l	SW846 8260C
Methylcyclohexane		0.97 J	5.0	0.49	ug/l	SW846 8260C
Methylene chloride		2.1	2.0	0.28	ug/l	SW846 8260C
Trichloroethene		107	1.0	0.47	ug/l	SW846 8260C
Vinyl chloride		3.7	1.0	0.58	ug/l	SW846 8260C
Xylene (total)		0.43 J	1.0	0.36	ug/l	SW846 8260C
MC31799-17	**MW10-7-2014-06-27**					
cis-1,2-Dichloroethene		23.1	1.0	0.84	ug/l	SW846 8260C
trans-1,2-Dichloroethene		0.82 J	1.0	0.51	ug/l	SW846 8260C
Trichloroethene		7.2	1.0	0.47	ug/l	SW846 8260C
MC31799-18	**PW10-1-2014-06-27**					
Benzene		0.34 J	0.50	0.32	ug/l	SW846 8260C
Carbon disulfide		0.60 J	5.0	0.46	ug/l	SW846 8260C
1,1-Dichloroethene		0.63 J	1.0	0.61	ug/l	SW846 8260C
cis-1,2-Dichloroethene		207	1.0	0.84	ug/l	SW846 8260C
trans-1,2-Dichloroethene		3.1	1.0	0.51	ug/l	SW846 8260C
Trichloroethene		55.9	1.0	0.47	ug/l	SW846 8260C
Vinyl chloride		14.6	1.0	0.58	ug/l	SW846 8260C
MC31799-19	**PW10-2-2014-06-27**					
Benzene		5.6	2.5	1.6	ug/l	SW846 8260C
Chloroform		3.8 J	5.0	2.1	ug/l	SW846 8260C
Cyclohexane		4.9 J	25	3.1	ug/l	SW846 8260C
1,1-Dichloroethene		4.1 J	5.0	3.0	ug/l	SW846 8260C
cis-1,2-Dichloroethene		1390	5.0	4.2	ug/l	SW846 8260C
trans-1,2-Dichloroethene		11.1	5.0	2.5	ug/l	SW846 8260C
Methylcyclohexane		3.3 J	25	2.4	ug/l	SW846 8260C
Trichloroethene		30.1	5.0	2.4	ug/l	SW846 8260C
Vinyl chloride		275	5.0	2.9	ug/l	SW846 8260C
MC31799-20	**PZ10-7-2014-06-27**					
cis-1,2-Dichloroethene		1.1	1.0	0.84	ug/l	SW846 8260C

Summary of Hits

Job Number: MC31799
Account: EA Engineering
Project: NFARS, Niagara Falls, NY
Collected: 06/27/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC31799-21	**MW13-4D-2014-06-27**					
Benzene		0.41 J	0.50	0.32	ug/l	SW846 8260C
cis-1,2-Dichloroethene		14.2	1.0	0.84	ug/l	SW846 8260C
Vinyl chloride		17.4	1.0	0.58	ug/l	SW846 8260C
MC31799-22	**MW13-5D-2014-06-27**					
cis-1,2-Dichloroethene		21.3	1.0	0.84	ug/l	SW846 8260C
trans-1,2-Dichloroethene		1.2	1.0	0.51	ug/l	SW846 8260C
Trichloroethene		2.5	1.0	0.47	ug/l	SW846 8260C
MC31799-23	**SW03-02-2014-06-27**					
No hits reported in this sample.						
MC31799-24	**SW03-03-2014-06-27**					
No hits reported in this sample.						
MC31799-25	**SW03-15-2014-06-27**					
No hits reported in this sample.						
MC31799-26	**SW10-05-2014-06-27**					
cis-1,2-Dichloroethene		0.85 J	1.0	0.84	ug/l	SW846 8260C
Trichloroethene		2.5	1.0	0.47	ug/l	SW846 8260C
MC31799-27	**SW10-06-2014-06-27**					
No hits reported in this sample.						
MC31799-28	**SW10-07-2014-06-27**					
No hits reported in this sample.						
MC31799-29	**SW99-10-2014-06-27**					
cis-1,2-Dichloroethene		0.85 J	1.0	0.84	ug/l	SW846 8260C
Vinyl chloride		0.71 J	1.0	0.58	ug/l	SW846 8260C
MC31799-30	**FD-140627-01**					
Acetone		2.6 J	10	2.5	ug/l	SW846 8260C

Summary of Hits

Job Number: MC31799
Account: EA Engineering
Project: NFARS, Niagara Falls, NY
Collected: 06/27/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
cis-1,2-Dichloroethene		9.3	1.0	0.84	ug/l	SW846 8260C
Vinyl chloride		25.1	1.0	0.58	ug/l	SW846 8260C
MC31799-31	**FD-140627-02**					
cis-1,2-Dichloroethene		197	1.0	0.84	ug/l	SW846 8260C
Vinyl chloride		239	1.0	0.58	ug/l	SW846 8260C
MC31799-32	**SW-FD-140627**					
No hits reported in this sample.						
MC31799-33	**PDB-BLANK-140627**					
No hits reported in this sample.						
MC31799-34	**TB-140627**					
No hits reported in this sample.						

New England ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW8-11D-2014-06-27		
Lab Sample ID:	MC31799-1	**Date Sampled:**	06/27/14
Matrix:	AQ - Ground Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U20834.D	1	07/03/14	GK	n/a	n/a	MSU934
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.3	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	1.4	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW8-11D-2014-06-27
Lab Sample ID: MC31799-1
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: NFARS, Niagara Falls, NY

Date Sampled: 06/27/14
Date Received: 07/01/14
Percent Solids: n/a

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	122%		70-130%
2037-26-5	Toluene-D8	105%		70-130%
460-00-4	4-Bromofluorobenzene	104%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW3-3DA-2014-06-27		
Lab Sample ID:	MC31799-2	**Date Sampled:**	06/27/14
Matrix:	AQ - Ground Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U20835.D	1	07/03/14	GK	n/a	n/a	MSU934
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.3	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	5.4	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW3-3DA-2014-06-27
Lab Sample ID: MC31799-2
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: NFARS, Niagara Falls, NY

Date Sampled: 06/27/14
Date Received: 07/01/14
Percent Solids: n/a

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	23.1	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	122%		70-130%
2037-26-5	Toluene-D8	106%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW3-4DA-2014-06-27		
Lab Sample ID:	MC31799-3	**Date Sampled:**	06/27/14
Matrix:	AQ - Ground Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U20836.D	1	07/03/14	GK	n/a	n/a	MSU934
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.3	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	5.6	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW3-4DA-2014-06-27
Lab Sample ID: MC31799-3
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: NFARS, Niagara Falls, NY

Date Sampled: 06/27/14
Date Received: 07/01/14
Percent Solids: n/a

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	12.6	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	126%		70-130%
2037-26-5	Toluene-D8	105%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PW3-3A-2014-06-27		
Lab Sample ID:	MC31799-4	**Date Sampled:**	06/27/14
Matrix:	AQ - Ground Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U20833.D	1	07/03/14	GK	n/a	n/a	MSU934
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.3	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	4.9	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PW3-3A-2014-06-27
Lab Sample ID: MC31799-4
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: NFARS, Niagara Falls, NY

Date Sampled: 06/27/14
Date Received: 07/01/14
Percent Solids: n/a

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	0.80	1.0	0.47	ug/l	J
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	3.9	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	122%		70-130%
2037-26-5	Toluene-D8	107%		70-130%
460-00-4	4-Bromofluorobenzene	103%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	PZ3-6D-2014-06-27		
Lab Sample ID:	MC31799-5	**Date Sampled:**	06/27/14
Matrix:	AQ - Ground Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U20837.D	1	07/03/14	GK	n/a	n/a	MSU934
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.3	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.1	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ3-6D-2014-06-27
Lab Sample ID: MC31799-5
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: NFARS, Niagara Falls, NY

Date Sampled: 06/27/14
Date Received: 07/01/14
Percent Solids: n/a

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	2.2	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	124%		70-130%
2037-26-5	Toluene-D8	104%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PZ3-7D-2014-06-27		
Lab Sample ID:	MC31799-6	**Date Sampled:**	06/27/14
Matrix:	AQ - Ground Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U20838.D	1	07/03/14	GK	n/a	n/a	MSU934
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.3	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	8.0	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ3-7D-2014-06-27
Lab Sample ID: MC31799-6
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: NFARS, Niagara Falls, NY

Date Sampled: 06/27/14
Date Received: 07/01/14
Percent Solids: n/a

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	31.7	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	121%		70-130%
2037-26-5	Toluene-D8	104%		70-130%
460-00-4	4-Bromofluorobenzene	103%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PZ3-8D-2014-06-27		
Lab Sample ID:	MC31799-7	**Date Sampled:**	06/27/14
Matrix:	AQ - Ground Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U20839.D	1	07/03/14	GK	n/a	n/a	MSU934
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.3	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ3-8D-2014-06-27
Lab Sample ID: MC31799-7
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: NFARS, Niagara Falls, NY

Date Sampled: 06/27/14
Date Received: 07/01/14
Percent Solids: n/a

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	123%		70-130%
2037-26-5	Toluene-D8	105%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW5-1DA-2014-06-27		
Lab Sample ID:	MC31799-8	**Date Sampled:**	06/27/14
Matrix:	AQ - Ground Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U20840.D	1	07/03/14	GK	n/a	n/a	MSU934
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.3	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW5-1DA-2014-06-27
Lab Sample ID: MC31799-8
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: NFARS, Niagara Falls, NY

Date Sampled: 06/27/14
Date Received: 07/01/14
Percent Solids: n/a

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	122%		70-130%
2037-26-5	Toluene-D8	105%		70-130%
460-00-4	4-Bromofluorobenzene	104%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: MW5-5D-2014-06-27
Lab Sample ID: MC31799-9
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: NFARS, Niagara Falls, NY

Date Sampled: 06/27/14
Date Received: 07/01/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U20841.D	1	07/03/14	GK	n/a	n/a	MSU934
Run #2	U20950.D	100	07/08/14	GK	n/a	n/a	MSU937

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	2.8	10	2.5	ug/l	J
71-43-2	Benzene	ND	0.50	0.32	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.3	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	2.6	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	2120 [a]	100	84	ug/l	
156-60-5	trans-1,2-Dichloroethene	27.5	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW5-5D-2014-06-27
Lab Sample ID: MC31799-9
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: NFARS, Niagara Falls, NY

Date Sampled: 06/27/14
Date Received: 07/01/14
Percent Solids: n/a

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	1.5	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	4300 [a]	100	58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	123%	123%	70-130%
2037-26-5	Toluene-D8	105%	105%	70-130%
460-00-4	4-Bromofluorobenzene	103%	101%	70-130%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW5-6-2014-06-27		
Lab Sample ID:	MC31799-10	**Date Sampled:**	06/27/14
Matrix:	AQ - Ground Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U20936.D	1	07/08/14	GK	n/a	n/a	MSU937
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.3	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	5.4	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	32.7	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW5-6-2014-06-27
Lab Sample ID: MC31799-10
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: NFARS, Niagara Falls, NY

Date Sampled: 06/27/14
Date Received: 07/01/14
Percent Solids: n/a

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	1.8	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	39.0	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	119%		70-130%
2037-26-5	Toluene-D8	105%		70-130%
460-00-4	4-Bromofluorobenzene	105%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID: RW5-1-2014-06-27
Lab Sample ID: MC31799-11
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: NFARS, Niagara Falls, NY

Date Sampled: 06/27/14
Date Received: 07/01/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U20843.D	1	07/03/14	GK	n/a	n/a	MSU934
Run #2	U20951.D	100	07/08/14	GK	n/a	n/a	MSU937

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.3	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	10.9	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	5210 [a]	100	84	ug/l	
156-60-5	trans-1,2-Dichloroethene	20.9	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RW5-1-2014-06-27
Lab Sample ID: MC31799-11
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: NFARS, Niagara Falls, NY

Date Sampled: 06/27/14
Date Received: 07/01/14
Percent Solids: n/a

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	573 [a]	100	47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	229	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	119%	124%	70-130%
2037-26-5	Toluene-D8	101%	104%	70-130%
460-00-4	4-Bromofluorobenzene	103%	101%	70-130%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	RW5-2-2014-06-27		
Lab Sample ID:	MC31799-12	**Date Sampled:**	06/27/14
Matrix:	AQ - Ground Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U20844.D	1	07/03/14	GK	n/a	n/a	MSU934
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.3	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	150	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	0.64	1.0	0.51	ug/l	J
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RW5-2-2014-06-27		
Lab Sample ID:	MC31799-12	**Date Sampled:**	06/27/14
Matrix:	AQ - Ground Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	66.9	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	123%		70-130%
2037-26-5	Toluene-D8	104%		70-130%
460-00-4	4-Bromofluorobenzene	103%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	RW-5-4-2014-06-27		
Lab Sample ID:	MC31799-13	**Date Sampled:**	06/27/14
Matrix:	AQ - Ground Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U20845.D	1	07/03/14	GK	n/a	n/a	MSU934
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.3	ug/l	
75-15-0	Carbon disulfide	0.50	5.0	0.46	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	219	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RW-5-4-2014-06-27
Lab Sample ID: MC31799-13
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: NFARS, Niagara Falls, NY

Date Sampled: 06/27/14
Date Received: 07/01/14
Percent Solids: n/a

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	276	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	126%		70-130%
2037-26-5	Toluene-D8	106%		70-130%
460-00-4	4-Bromofluorobenzene	104%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW8-1-2014-06-27		
Lab Sample ID:	MC31799-14	**Date Sampled:**	06/27/14
Matrix:	AQ - Ground Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U20846.D	1	07/03/14	GK	n/a	n/a	MSU934
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.3	ug/l	
75-15-0	Carbon disulfide	0.46	5.0	0.46	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	10.1	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW8-1-2014-06-27
Lab Sample ID: MC31799-14
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: NFARS, Niagara Falls, NY

Date Sampled: 06/27/14
Date Received: 07/01/14
Percent Solids: n/a

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	26.7	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	125%		70-130%
2037-26-5	Toluene-D8	102%		70-130%
460-00-4	4-Bromofluorobenzene	99%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW8-10D-2014-06-27		
Lab Sample ID:	MC31799-15	**Date Sampled:**	06/27/14
Matrix:	AQ - Ground Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U20847.D	1	07/03/14	GK	n/a	n/a	MSU934
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.3	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	8.0	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	1.3	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW8-10D-2014-06-27
Lab Sample ID: MC31799-15
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: NFARS, Niagara Falls, NY

Date Sampled: 06/27/14
Date Received: 07/01/14
Percent Solids: n/a

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	1.1	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	2.0	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	122%		70-130%
2037-26-5	Toluene-D8	105%		70-130%
460-00-4	4-Bromofluorobenzene	103%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID: MW10-3-2014-06-27
Lab Sample ID: MC31799-16
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: NFARS, Niagara Falls, NY

Date Sampled: 06/27/14
Date Received: 07/01/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U20848.D	1	07/03/14	GK	n/a	n/a	MSU934
Run #2	U20952.D	10	07/08/14	GK	n/a	n/a	MSU937

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.3	ug/l	
75-15-0	Carbon disulfide	5.4	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	506 [a]	10	5.3	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	327	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	1.0	5.0	0.62	ug/l	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	48.0	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	1.5	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW10-3-2014-06-27
Lab Sample ID: MC31799-16
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: NFARS, Niagara Falls, NY

Date Sampled: 06/27/14
Date Received: 07/01/14
Percent Solids: n/a

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	0.97	5.0	0.49	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	2.1	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	107	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	3.7	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	0.43	1.0	0.36	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	122%	122%	70-130%
2037-26-5	Toluene-D8	101%	103%	70-130%
460-00-4	4-Bromofluorobenzene	101%	99%	70-130%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW10-7-2014-06-27		
Lab Sample ID:	MC31799-17	**Date Sampled:**	06/27/14
Matrix:	AQ - Ground Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U20937.D	1	07/08/14	GK	n/a	n/a	MSU937
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.3	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	23.1	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	0.82	1.0	0.51	ug/l	J
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW10-7-2014-06-27
Lab Sample ID: MC31799-17
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: NFARS, Niagara Falls, NY

Date Sampled: 06/27/14
Date Received: 07/01/14
Percent Solids: n/a

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	7.2	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	120%		70-130%
2037-26-5	Toluene-D8	103%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID: PW10-1-2014-06-27
Lab Sample ID: MC31799-18
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: NFARS, Niagara Falls, NY

Date Sampled: 06/27/14
Date Received: 07/01/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U20849.D	1	07/03/14	GK	n/a	n/a	MSU934
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	0.34	0.50	0.32	ug/l	J
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.3	ug/l	
75-15-0	Carbon disulfide	0.60	5.0	0.46	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	0.63	1.0	0.61	ug/l	J
156-59-2	cis-1,2-Dichloroethene	207	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	3.1	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PW10-1-2014-06-27
Lab Sample ID: MC31799-18
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: NFARS, Niagara Falls, NY

Date Sampled: 06/27/14
Date Received: 07/01/14
Percent Solids: n/a

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	55.9	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	14.6	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	123%		70-130%
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	97%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PW10-2-2014-06-27		
Lab Sample ID:	MC31799-19	**Date Sampled:**	06/27/14
Matrix:	AQ - Ground Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U20949.D	5	07/08/14	GK	n/a	n/a	MSU937
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	13	ug/l	
71-43-2	Benzene	5.6	2.5	1.6	ug/l	
74-97-5	Bromochloromethane	ND	25	2.8	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	1.7	ug/l	
75-25-2	Bromoform	ND	5.0	3.1	ug/l	
74-83-9	Bromomethane	ND	10	8.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	25	13	ug/l	
75-15-0	Carbon disulfide	ND	25	2.3	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	2.7	ug/l	
108-90-7	Chlorobenzene	ND	5.0	2.1	ug/l	
75-00-3	Chloroethane	ND	10	2.7	ug/l	
67-66-3	Chloroform	3.8	5.0	2.1	ug/l	J
74-87-3	Chloromethane	ND	10	5.4	ug/l	
110-82-7	Cyclohexane	4.9	25	3.1	ug/l	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	25	9.7	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	1.9	ug/l	
106-93-4	1,2-Dibromoethane	ND	5.0	4.3	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.6	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	2.8	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.8	ug/l	
75-71-8	Dichlorodifluoromethane	ND	10	3.6	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	1.8	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	2.5	ug/l	
75-35-4	1,1-Dichloroethene	4.1	5.0	3.0	ug/l	J
156-59-2	cis-1,2-Dichloroethene	1390	5.0	4.2	ug/l	
156-60-5	trans-1,2-Dichloroethene	11.1	5.0	2.5	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	2.5	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	2.1	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	2.5	ug/l	
100-41-4	Ethylbenzene	ND	5.0	1.9	ug/l	
76-13-1	Freon 113	ND	25	3.1	ug/l	
591-78-6	2-Hexanone	ND	25	8.0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PW10-2-2014-06-27
Lab Sample ID: MC31799-19
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: NFARS, Niagara Falls, NY

Date Sampled: 06/27/14
Date Received: 07/01/14
Percent Solids: n/a

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
74-88-4	Iodomethane	ND	25	3.3	ug/l	
98-82-8	Isopropylbenzene	ND	25	1.7	ug/l	
79-20-9	Methyl Acetate	ND	25	7.1	ug/l	
108-87-2	Methylcyclohexane	3.3	25	2.4	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.6	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	25	4.9	ug/l	
75-09-2	Methylene chloride	ND	10	1.4	ug/l	
100-42-5	Styrene	ND	25	4.3	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	5.0	3.0	ug/l	
108-88-3	Toluene	ND	5.0	1.7	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	25	3.4	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	25	2.5	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	2.3	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.3	ug/l	
79-01-6	Trichloroethene	30.1	5.0	2.4	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	2.7	ug/l	
75-01-4	Vinyl chloride	275	5.0	2.9	ug/l	
1330-20-7	Xylene (total)	ND	5.0	1.8	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	124%		70-130%
2037-26-5	Toluene-D8	105%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PZ10-7-2014-06-27		
Lab Sample ID:	MC31799-20	**Date Sampled:**	06/27/14
Matrix:	AQ - Ground Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U20938.D	1	07/08/14	GK	n/a	n/a	MSU937
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.3	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.1	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PZ10-7-2014-06-27		
Lab Sample ID:	MC31799-20	**Date Sampled:**	06/27/14
Matrix:	AQ - Ground Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	124%		70-130%
2037-26-5	Toluene-D8	106%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW13-4D-2014-06-27		
Lab Sample ID:	MC31799-21	**Date Sampled:**	06/27/14
Matrix:	AQ - Ground Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U20940.D	1	07/08/14	GK	n/a	n/a	MSU937
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	0.41	0.50	0.32	ug/l	J
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.3	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	14.2	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW13-4D-2014-06-27
Lab Sample ID: MC31799-21
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: NFARS, Niagara Falls, NY

Date Sampled: 06/27/14
Date Received: 07/01/14
Percent Solids: n/a

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	17.4	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	122%		70-130%
2037-26-5	Toluene-D8	103%		70-130%
460-00-4	4-Bromofluorobenzene	102%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW13-5D-2014-06-27		
Lab Sample ID:	MC31799-22	**Date Sampled:**	06/27/14
Matrix:	AQ - Ground Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U20941.D	1	07/08/14	GK	n/a	n/a	MSU937
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.3	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	21.3	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	1.2	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW13-5D-2014-06-27
Lab Sample ID: MC31799-22
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: NFARS, Niagara Falls, NY

Date Sampled: 06/27/14
Date Received: 07/01/14
Percent Solids: n/a

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	2.5	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	121%		70-130%
2037-26-5	Toluene-D8	106%		70-130%
460-00-4	4-Bromofluorobenzene	103%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SW03-02-2014-06-27		
Lab Sample ID:	MC31799-23	**Date Sampled:**	06/27/14
Matrix:	AQ - Surface Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U20942.D	1	07/08/14	GK	n/a	n/a	MSU937
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.3	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW03-02-2014-06-27		
Lab Sample ID:	MC31799-23	**Date Sampled:**	06/27/14
Matrix:	AQ - Surface Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	123%		70-130%
2037-26-5	Toluene-D8	105%		70-130%
460-00-4	4-Bromofluorobenzene	102%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SW03-03-2014-06-27		
Lab Sample ID:	MC31799-24	**Date Sampled:**	06/27/14
Matrix:	AQ - Surface Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U20939.D	1	07/08/14	GK	n/a	n/a	MSU937
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.3	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW03-03-2014-06-27		
Lab Sample ID:	MC31799-24	**Date Sampled:**	06/27/14
Matrix:	AQ - Surface Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	125%		70-130%
2037-26-5	Toluene-D8	102%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	SW03-15-2014-06-27		
Lab Sample ID:	MC31799-25	**Date Sampled:**	06/27/14
Matrix:	AQ - Surface Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U20943.D	1	07/08/14	GK	n/a	n/a	MSU937
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.3	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SW03-15-2014-06-27
Lab Sample ID: MC31799-25
Matrix: AQ - Surface Water
Method: SW846 8260C
Project: NFARS, Niagara Falls, NY

Date Sampled: 06/27/14
Date Received: 07/01/14
Percent Solids: n/a

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	123%		70-130%
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	SW10-05-2014-06-27		
Lab Sample ID:	MC31799-26	**Date Sampled:**	06/27/14
Matrix:	AQ - Surface Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U20944.D	1	07/08/14	GK	n/a	n/a	MSU937
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.3	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.85	1.0	0.84	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SW10-05-2014-06-27
Lab Sample ID: MC31799-26
Matrix: AQ - Surface Water
Method: SW846 8260C
Project: NFARS, Niagara Falls, NY

Date Sampled: 06/27/14
Date Received: 07/01/14
Percent Solids: n/a

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	2.5	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	124%		70-130%
2037-26-5	Toluene-D8	103%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SW10-06-2014-06-27		
Lab Sample ID:	MC31799-27	**Date Sampled:**	06/27/14
Matrix:	AQ - Surface Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U20945.D	1	07/08/14	GK	n/a	n/a	MSU937
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.3	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW10-06-2014-06-27		
Lab Sample ID:	MC31799-27	**Date Sampled:**	06/27/14
Matrix:	AQ - Surface Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	123%		70-130%
2037-26-5	Toluene-D8	102%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	SW10-07-2014-06-27		
Lab Sample ID:	MC31799-28	**Date Sampled:**	06/27/14
Matrix:	AQ - Surface Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U20946.D	1	07/08/14	GK	n/a	n/a	MSU937
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.3	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW10-07-2014-06-27		
Lab Sample ID:	MC31799-28	**Date Sampled:**	06/27/14
Matrix:	AQ - Surface Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	124%		70-130%
2037-26-5	Toluene-D8	104%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SW99-10-2014-06-27		
Lab Sample ID:	MC31799-29	**Date Sampled:**	06/27/14
Matrix:	AQ - Surface Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U20947.D	1	07/08/14	GK	n/a	n/a	MSU937
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.85	1.0	0.84	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SW99-10-2014-06-27
Lab Sample ID: MC31799-29
Matrix: AQ - Surface Water
Method: SW846 8260C
Project: NFARS, Niagara Falls, NY

Date Sampled: 06/27/14
Date Received: 07/01/14
Percent Solids: n/a

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	0.71	1.0	0.58	ug/l	J
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	123%		70-130%
2037-26-5	Toluene-D8	105%		70-130%
460-00-4	4-Bromofluorobenzene	99%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	FD-140627-01		
Lab Sample ID:	MC31799-30	**Date Sampled:**	06/27/14
Matrix:	AQ - Ground Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U20948.D	1	07/08/14	GK	n/a	n/a	MSU937
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	2.6	10	2.5	ug/l	J
71-43-2	Benzene	ND	0.50	0.32	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	9.3	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FD-140627-01		
Lab Sample ID:	MC31799-30	**Date Sampled:**	06/27/14
Matrix:	AQ - Ground Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	25.1	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	121%		70-130%
2037-26-5	Toluene-D8	103%		70-130%
460-00-4	4-Bromofluorobenzene	103%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	FD-140627-02		
Lab Sample ID:	MC31799-31	**Date Sampled:**	06/27/14
Matrix:	AQ - Ground Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U20913.D	1	07/07/14	GK	n/a	n/a	MSU936
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.3	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	197	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FD-140627-02		
Lab Sample ID:	MC31799-31	**Date Sampled:**	06/27/14
Matrix:	AQ - Ground Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	239	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	124%		70-130%
2037-26-5	Toluene-D8	103%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SW-FD-140627		
Lab Sample ID:	MC31799-32	**Date Sampled:**	06/27/14
Matrix:	AQ - Surface Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U20914.D	1	07/07/14	GK	n/a	n/a	MSU936
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.3	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-FD-140627		
Lab Sample ID:	MC31799-32	**Date Sampled:**	06/27/14
Matrix:	AQ - Surface Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	123%		70-130%
2037-26-5	Toluene-D8	102%		70-130%
460-00-4	4-Bromofluorobenzene	103%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PDB-BLANK-140627		
Lab Sample ID:	MC31799-33	**Date Sampled:**	06/27/14
Matrix:	AQ - Equipment Blank	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U20909.D	1	07/07/14	GK	n/a	n/a	MSU936
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.3	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PDB-BLANK-140627
Lab Sample ID: MC31799-33
Matrix: AQ - Equipment Blank
Method: SW846 8260C
Project: NFARS, Niagara Falls, NY

Date Sampled: 06/27/14
Date Received: 07/01/14
Percent Solids: n/a

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	128%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	99%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TB-140627		
Lab Sample ID:	MC31799-34	**Date Sampled:**	06/27/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U20908.D	1	07/07/14	GK	n/a	n/a	MSU936
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.3	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-140627		
Lab Sample ID:	MC31799-34	**Date Sampled:**	06/27/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/01/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	122%		70-130%
2037-26-5	Toluene-D8	103%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New England ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

Accutest Laboratories of New England
495 Technology Center West, Building One
TEL. 508-481-6200 FAX: 508-481-7753
www.accutest.com

PAGE 1 OF 3

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: MC31799

Client / Reporting Information

Company Name: EA Engineering
Street Address: 6712 Brooklawn Pkwy. Ste. 104
City: Syracuse State: NY Zip: 13211
Project Contact: Rob Peterson E-mail: rpeterson@eaest.com
Phone #: 315-708-6183 Fax #:
Sampler(s) Name(s): Rob Peterson Phone #: 315-708-6193

Project Information

Project Name: NFARS-~~EA~~ Semi-Annual Spring 2014
Street:
City: Niagara Falls, NY
Project #: 6265401
Client PO#:
Project Manager: Ben Young

Billing Information (If different from Report to)

Company Name: northeastap@eaest.com
Street Address:
City: State: Zip:
Attention: PO#:

Requested Analysis (see TEST CODE sheet)

TCL VOCs 8260C

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB- Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Bisulfate	LAB USE ONLY
-1	MW8-11D-2014-06-27		6/27/14	1149	RP/HW	GW	3	3									
-2	MW3-3DA-2014-06-27			0950			3	3									
-3	MW3-4DA-2014-06-27			1030			3	3									
-4	~~MW8-11D-2014-06-27~~ MW3-3A-2014-06-27			1020			9	9									
-5	PZ3-6D-2014-06-27			1000			3	3									
-6	PZ3-7D-2014-06-27			1455			3	3									
-7	PZ3-8D-2014-06-27			1500			3	3									
-8	MW5-1DA-2014-06-27			1232			3	3									
-9	MW5-5D-2014-06-27			1222			3	3									3F1, 3F2
-10	MW5-6-2014-06-27			1220			3	3									3F3
-11	MW5-1-2014-06-27			1227			3	3									
-12	MW5-2-2014-06-27			1239			3	3									

Turnaround Time (Business days)

- [ ] Std. 10 Business Days
- [x] Std. 5 Business Days (By Contract only)
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Labtink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] CT RCP
- [ ] MA MCP
- [ ] NYASP Category A
- [x] NYASP Category B
- [ ] State Forms
- [x] EDD Format ERPIMS
- [x] Other NYSDEC EQUIS EDD

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

use PW3-3A-2014-06-27 for MS/MSD

ACCUTEST SYRACUSE-SC

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date/Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	Robert Peterson	6/27/14 1730	6/30/14 0800	2		2
3		6/30/14 830	3	4		4
5			5	Custody Seal #	Intact / Not Intact	Preserved where applicable

On Ice: ✓ Cooler Temp: 1.4-1.2-0.8-0.5

MC31799: Chain of Custody
Page 1 of 4

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

Accutest Laboratories of New England
495 Technology Center West, Building One
TEL. 508-481-6200 FAX: 508-481-7753
www.accutest.com

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: MC31799

Client / Reporting Information

Company Name: EA Engineering
Street Address: 6712 Brooklawn Pkwy. Ste. 104
City: Syracuse, NY State: Zip: 13211
Project Contact: Rob Peterson / rpeterson@eaest.com E-mail:
Phone #: 315-708-6183 Fax #:
Sampler(s) Name(s): Rob Peterson Phone #: 315-708-6183

Project Information

Project Name: NFARS- Semi-Annual Spring 2014
Street:
City: Niagara Falls, NY
Project #: 12654.01
Client PO#:
Project Manager: Ben Young

Billing Information (If different from Report to)

Company Name: northeastap@eaest.com
Street Address:
City: State: Zip:
Attention: PO#:

Requested Analysis (see TEST CODE sheet)

TCL VOCs 8260C

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB- Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MECH	ENCORE	Bisulfate	LAB USE ONLY
-13	RW5-4-2014-06-27		6/27/14	1213	RP/HW	GW	3	3									X
-14	MW8-1-2014-06-27			1120			3	3									X
-15	MW8-1DD-2014-06-27			1155			3	3									X
-16	MW10-3-2014-06-27			1415			3	3									X
-17	MW10-7-2014-06-27			1348			9	9									X
-18	PW10-1-2014-06-27			1428			3	3									X
-19	PW10-2-2014-06-27			1425			3	3									X
20	PZ10-7-2014-06-27			1355			3	3									X
21	MW13-4D-2014-06-27			1250			3	3									X
22	MW13-5D-2014-06-27			1245			3	3									X
23	SW03-02-2014-06-27			1450		SW	3	3									X
24	SW03-03-2014-06-27			1058		SW	9	9									X

Turnaround Time (Business days)

- [ ] Std. 10 Business Days
- [x] Std. 5 Business Days (By Contract only)
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Labilnk

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] CT RCP
- [ ] MA MCP
- [ ] NYASP Category A
- [x] NYASP Category B
- [ ] State Forms
- [x] EDD Format ERPIMS
- [x] Other NYSDEC EQUIS EDD

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

Use MW10-7-2014-06-27 and SW03-03-2014-06-27 for MS/MSD

ACCUTEST SYRACUSE-SC

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	Robert Peterson	6/27/14 1730	1	2		2
3		7-1-14 930	3	4		4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal #	Intact / Not Intact	Preserved where applicable

On Ice: ☑ Cooler Temp: 1.4-1.2-0.8 0.5

5.1 5

MC31799: Chain of Custody
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ACCUTEST LABORATORIES

CHAIN OF CUSTODY

Accutest Laboratories of New England
495 Technology Center West, Building One
TEL. 508-481-6200 FAX: 508-481-7753
www.accutest.com

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: MC31799

Client / Reporting Information

Company Name: EA Engineering
Street Address: 6712 Brooklawn Pkwy, Ste 104
City: Syracuse State: NY Zip: 13211
Project Contact: Rob Peterson E-mail: rpeterson@eaest.com
Phone #: 315-708-6183 Fax #:
Sampler(s) Name(s): Rob Peterson Phone #: 315-708-6183

Project Information

Project Name: NFARS-Semi-Annual Spring 2014
Street:
City: Niagara Falls, NY
Project #: 03165401
Client PO#:
Project Manager: Ben Young

Billing Information (If different from Report to)

Company Name: northeastap@eaest.com
Street Address:
City State Zip:
Attention: PO#:

Requested Analysis (see TEST CODE sheet)

TCL VOCs 8260C

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB- Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Bisulfate	LAB USE ONLY
25	SW03-15-2014-06-27		6/27/14	1110	RP/HW	~~GW~~ SW	3	3									
26	SW10-05-2014-06-27			1430		SW	3	3									
27	SW10-06-2014-06-27			1400			3	3									
28	SW10-07-2014-06-27			1405			3	3									
~~29~~	~~SW99-10-2014-06-27~~						~~3~~										
29	SW99-10-2014-06-27		6/27/14	1315	RP/HW		3	3									
30	FD-140627-01		6/27/14			GW	3	3									
31	FD-140627-02					GW	3	3									
32	SW-FD-140627					SW	3	3									
33	PDB-BLANK-140627			1510		EB	3	3									
34	TB-140627			1505		TB	2	2									

Turnaround Time (Business days)

- [ ] Std. 10 Business Days
- [x] Std. 5 Business Days (By Contract only)
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] CT RCP
- [ ] MA MCP
- [x] NYASP Category A
- [x] NYASP Category B
- [ ] State Forms
- [x] EDD Format ERPIMS
- [x] Other NYSDEC EQUIS EDD

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

ACCUTEST
SYRACUSE-SC

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:		Relinquished By:	Date Time:	Received By:
1	Rob Peterson	6/27/14 1730		2			2
3	Relinquished by Sampler: FED EX	Date Time: 7-1-14 930	Received By:	4	Relinquished By:	Date Time:	Received By: 4
5	Relinquished by:	Date Time:	Received By: 5		Custody Seal #	Intact / Not Intact	Preserved where applicable	On Ice ✓	Cooler Temp.

1.4-1.2-0.8-0.5-9

5.1 5

MC31799: Chain of Custody
Page 3 of 4

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC31799 **Client:** EA ENGINEERING **Immediate Client Services Action Required:** No

Date / Time Received: 7/1/2014 **Delivery Method:** **Client Service Action Required at Login:** No

Project: NFARS SEMI ANNUAL SPRING 2014 **No. Coolers:** 4 **Airbill #'s:**

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	Infared gun	
3. Cooler media:	Ice (bag)	

Quality Control Preservation	Y	N	N/A
1. Trip Blank present / cooler:	☑	☐	☐
2. Trip Blank listed on COC:	☑	☐	☐
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☑	☐	☐

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

MC31799: Chain of Custody
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Internal Sample Tracking Chronicle

EA Engineering

Job No: MC31799

NFARS, Niagara Falls, NY
Project No: 6265401 Semi-Annual Spring 2014

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC31799-1 Collected: 27-JUN-14 11:49 By: RPHLD MW8-11D-2014-06-27			Received: 01-JUL-14	By:		
MC31799-1	SW846 8260C	03-JUL-14 11:36	GK			V8260SL
MC31799-2 Collected: 27-JUN-14 09:50 By: RPHLD MW3-3DA-2014-06-27			Received: 01-JUL-14	By:		
MC31799-2	SW846 8260C	03-JUL-14 12:03	GK			V8260SL
MC31799-3 Collected: 27-JUN-14 10:30 By: RPHLD MW3-4DA-2014-06-27			Received: 01-JUL-14	By:		
MC31799-3	SW846 8260C	03-JUL-14 12:30	GK			V8260SL
MC31799-4 Collected: 27-JUN-14 10:20 By: RPHLD PW3-3A-2014-06-27			Received: 01-JUL-14	By:		
MC31799-4	SW846 8260C	03-JUL-14 11:09	GK			V8260SL
MC31799-5 Collected: 27-JUN-14 10:00 By: RPHLD PZ3-6D-2014-06-27			Received: 01-JUL-14	By:		
MC31799-5	SW846 8260C	03-JUL-14 12:57	GK			V8260SL
MC31799-6 Collected: 27-JUN-14 14:55 By: RPHLD PZ3-7D-2014-06-27			Received: 01-JUL-14	By:		
MC31799-6	SW846 8260C	03-JUL-14 13:24	GK			V8260SL
MC31799-7 Collected: 27-JUN-14 15:00 By: RPHLD PZ3-8D-2014-06-27			Received: 01-JUL-14	By:		
MC31799-7	SW846 8260C	03-JUL-14 13:52	GK			V8260SL
MC31799-8 Collected: 27-JUN-14 12:32 By: RPHLD MW5-1DA-2014-06-27			Received: 01-JUL-14	By:		
MC31799-8	SW846 8260C	03-JUL-14 14:19	GK			V8260SL

Internal Sample Tracking Chronicle

EA Engineering

Job No: MC31799

NFARS, Niagara Falls, NY
Project No: 6265401 Semi-Annual Spring 2014

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC31799-9	Collected: 27-JUN-14 12:22 By: RPHLD MW5-5D-2014-06-27		Received: 01-JUL-14	By:		
MC31799-9	SW846 8260C	03-JUL-14 14:46	GK			V8260SL
MC31799-9	SW846 8260C	08-JUL-14 17:00	GK			V8260SL
MC31799-10	Collected: 27-JUN-14 12:20 By: RPHLD MW5-6-2014-06-27		Received: 01-JUL-14	By:		
MC31799-10	SW846 8260C	08-JUL-14 10:39	GK			V8260SL
MC31799-11	Collected: 27-JUN-14 12:27 By: RPHLD RW5-1-2014-06-27		Received: 01-JUL-14	By:		
MC31799-11	SW846 8260C	03-JUL-14 15:40	GK			V8260SL
MC31799-11	SW846 8260C	08-JUL-14 17:27	GK			V8260SL
MC31799-12	Collected: 27-JUN-14 12:39 By: RPHLD RW5-2-2014-06-27		Received: 01-JUL-14	By:		
MC31799-12	SW846 8260C	03-JUL-14 16:07	GK			V8260SL
MC31799-13	Collected: 27-JUN-14 12:13 By: RPHLD RW-5-4-2014-06-27		Received: 01-JUL-14	By:		
MC31799-13	SW846 8260C	03-JUL-14 16:34	GK			V8260SL
MC31799-14	Collected: 27-JUN-14 11:20 By: RPHLD MW8-1-2014-06-27		Received: 01-JUL-14	By:		
MC31799-14	SW846 8260C	03-JUL-14 17:02	GK			V8260SL
MC31799-15	Collected: 27-JUN-14 11:55 By: RPHLD MW8-10D-2014-06-27		Received: 01-JUL-14	By:		
MC31799-15	SW846 8260C	03-JUL-14 17:29	GK			V8260SL

Internal Sample Tracking Chronicle

EA Engineering

Job No: MC31799

NFARS, Niagara Falls, NY
Project No: 6265401 Semi-Annual Spring 2014

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC31799-16	Collected: 27-JUN-14 14:15 By: RPHLD MW10-3-2014-06-27		Received: 01-JUL-14	By:		
MC31799-16	SW846 8260C	03-JUL-14 17:56	GK			V8260SL
MC31799-16	SW846 8260C	08-JUL-14 17:54	GK			V8260SL
MC31799-17	Collected: 27-JUN-14 13:48 By: RPHLD MW10-7-2014-06-27		Received: 01-JUL-14	By:		
MC31799-17	SW846 8260C	08-JUL-14 11:07	GK			V8260SL
MC31799-18	Collected: 27-JUN-14 14:28 By: RPHLD PW10-1-2014-06-27		Received: 01-JUL-14	By:		
MC31799-18	SW846 8260C	03-JUL-14 18:23	GK			V8260SL
MC31799-19	Collected: 27-JUN-14 14:25 By: RPHLD PW10-2-2014-06-27		Received: 01-JUL-14	By:		
MC31799-19	SW846 8260C	08-JUL-14 16:32	GK			V8260SL
MC31799-20	Collected: 27-JUN-14 13:55 By: RPHLD PZ10-7-2014-06-27		Received: 01-JUL-14	By:		
MC31799-20	SW846 8260C	08-JUL-14 11:34	GK			V8260SL
MC31799-21	Collected: 27-JUN-14 12:50 By: RPHLD MW13-4D-2014-06-27		Received: 01-JUL-14	By:		
MC31799-21	SW846 8260C	08-JUL-14 12:28	GK			V8260SL
MC31799-22	Collected: 27-JUN-14 12:45 By: RPHLD MW13-5D-2014-06-27		Received: 01-JUL-14	By:		
MC31799-22	SW846 8260C	08-JUL-14 12:55	GK			V8260SL
MC31799-23	Collected: 27-JUN-14 14:50 By: RPHLD SW03-02-2014-06-27		Received: 01-JUL-14	By:		

Internal Sample Tracking Chronicle

EA Engineering

Job No: MC31799

NFARS, Niagara Falls, NY
Project No: 6265401 Semi-Annual Spring 2014

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC31799-23	SW846 8260C	08-JUL-14 13:22	GK			V8260SL
MC31799-24	Collected: 27-JUN-14 10:58 By: RPHLD SW03-03-2014-06-27		Received: 01-JUL-14 By:			
MC31799-24	SW846 8260C	08-JUL-14 12:01	GK			V8260SL
MC31799-25	Collected: 27-JUN-14 11:10 By: RPHLD SW03-15-2014-06-27		Received: 01-JUL-14 By:			
MC31799-25	SW846 8260C	08-JUL-14 13:49	GK			V8260SL
MC31799-26	Collected: 27-JUN-14 14:30 By: RPHLD SW10-05-2014-06-27		Received: 01-JUL-14 By:			
MC31799-26	SW846 8260C	08-JUL-14 14:16	GK			V8260SL
MC31799-27	Collected: 27-JUN-14 14:00 By: RPHLD SW10-06-2014-06-27		Received: 01-JUL-14 By:			
MC31799-27	SW846 8260C	08-JUL-14 14:43	GK			V8260SL
MC31799-28	Collected: 27-JUN-14 14:05 By: RPHLD SW10-07-2014-06-27		Received: 01-JUL-14 By:			
MC31799-28	SW846 8260C	08-JUL-14 15:11	GK			V8260SL
MC31799-29	Collected: 27-JUN-14 13:15 By: RPHLD SW99-10-2014-06-27		Received: 01-JUL-14 By:			
MC31799-29	SW846 8260C	08-JUL-14 15:38	GK			V8260SL
MC31799-30	Collected: 27-JUN-14 00:00 By: RPHLD FD-140627-01		Received: 01-JUL-14 By:			
MC31799-30	SW846 8260C	08-JUL-14 16:05	GK			V8260SL
MC31799-31	Collected: 27-JUN-14 00:00 By: RPHLD FD-140627-02		Received: 01-JUL-14 By:			

Internal Sample Tracking Chronicle

EA Engineering

Job No: MC31799

NFARS, Niagara Falls, NY
Project No: 6265401 Semi-Annual Spring 2014

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC31799-31	SW846 8260C	07-JUL-14 14:18	GK			V8260SL
MC31799-32	Collected: 27-JUN-14 00:00 By: RPHLD SW-FD-140627		Received: 01-JUL-14 By:			
MC31799-32	SW846 8260C	07-JUL-14 14:45	GK			V8260SL
MC31799-33	Collected: 27-JUN-14 15:10 By: RPHLD PDB-BLANK-140627		Received: 01-JUL-14 By:			
MC31799-33	SW846 8260C	07-JUL-14 12:29	GK			V8260SL
MC31799-34	Collected: 27-JUN-14 15:05 By: RPHLD TB-140627		Received: 01-JUL-14 By:			
MC31799-34	SW846 8260C	07-JUL-14 12:02	GK			V8260SL

Accutest Internal Chain of Custody

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY
Received: 07/01/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC31799-1.2	VOC Ref #3	Gary Krasinski	07/03/14 09:52	Retrieve from Storage
MC31799-1.2	Gary Krasinski	GCMSU	07/03/14 09:52	Load on Instrument
MC31799-1.2	GCMSU	Amy Min Yang	07/05/14 10:49	Unload from Instrument
MC31799-1.2	Amy Min Yang	VOC Ref #3	07/05/14 10:49	Return to Storage
MC31799-2.2	VOC Ref #3	Gary Krasinski	07/03/14 09:52	Retrieve from Storage
MC31799-2.2	Gary Krasinski	GCMSU	07/03/14 09:52	Load on Instrument
MC31799-2.2	GCMSU	Amy Min Yang	07/05/14 10:49	Unload from Instrument
MC31799-2.2	Amy Min Yang	VOC Ref #3	07/05/14 10:49	Return to Storage
MC31799-3.3	VOC Ref #3	Gary Krasinski	07/03/14 09:52	Retrieve from Storage
MC31799-3.3	Gary Krasinski	GCMSU	07/03/14 09:52	Load on Instrument
MC31799-3.3	GCMSU	Amy Min Yang	07/05/14 10:49	Unload from Instrument
MC31799-3.3	Amy Min Yang	VOC Ref #3	07/05/14 10:49	Return to Storage
MC31799-4.2	VOC Ref #3	Gary Krasinski	07/03/14 09:52	Retrieve from Storage
MC31799-4.2	Gary Krasinski	GCMSU	07/03/14 09:52	Load on Instrument
MC31799-4.2	GCMSU	Amy Min Yang	07/05/14 10:49	Unload from Instrument
MC31799-4.2	Amy Min Yang	VOC Ref #3	07/05/14 10:49	Return to Storage
MC31799-4.7	VOC Ref #3	Gary Krasinski	07/03/14 09:52	Retrieve from Storage
MC31799-4.7	Gary Krasinski	GCMSU	07/03/14 09:52	Load on Instrument
MC31799-4.7	GCMSU	Amy Min Yang	07/05/14 10:49	Unload from Instrument
MC31799-4.7	Amy Min Yang	VOC Ref #3	07/05/14 10:49	Return to Storage
MC31799-4.8	VOC Ref #3	Gary Krasinski	07/03/14 09:52	Retrieve from Storage
MC31799-4.8	Gary Krasinski	GCMSU	07/03/14 09:52	Load on Instrument
MC31799-4.8	GCMSU	Amy Min Yang	07/05/14 10:49	Unload from Instrument
MC31799-4.8	Amy Min Yang	VOC Ref #3	07/05/14 10:49	Return to Storage
MC31799-4.9	VOC Ref #3	Gary Krasinski	07/03/14 09:52	Retrieve from Storage
MC31799-4.9	Gary Krasinski	GCMSU	07/03/14 09:52	Load on Instrument
MC31799-4.9	GCMSU	Amy Min Yang	07/05/14 10:49	Unload from Instrument
MC31799-4.9	Amy Min Yang	VOC Ref #3	07/05/14 10:49	Return to Storage
MC31799-5.1	VOC Ref #3	Gary Krasinski	07/03/14 09:52	Retrieve from Storage
MC31799-5.1	Gary Krasinski	GCMSU	07/03/14 09:52	Load on Instrument
MC31799-5.1	GCMSU	Amy Min Yang	07/05/14 10:49	Unload from Instrument
MC31799-5.1	Amy Min Yang	VOC Ref #3	07/05/14 10:49	Return to Storage
MC31799-6.1	VOC Ref #3	Gary Krasinski	07/03/14 09:52	Retrieve from Storage
MC31799-6.1	Gary Krasinski	GCMSU	07/03/14 09:52	Load on Instrument
MC31799-6.1	GCMSU	Amy Min Yang	07/05/14 10:49	Unload from Instrument
MC31799-6.1	Amy Min Yang	VOC Ref #3	07/05/14 10:49	Return to Storage

Accutest Internal Chain of Custody

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY
Received: 07/01/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC31799-7.3	VOC Ref #3	Gary Krasinski	07/03/14 09:52	Retrieve from Storage
MC31799-7.3	Gary Krasinski	GCMSU	07/03/14 09:52	Load on Instrument
MC31799-7.3	GCMSU	Amy Min Yang	07/05/14 10:49	Unload from Instrument
MC31799-7.3	Amy Min Yang	VOC Ref #3	07/05/14 10:49	Return to Storage
MC31799-8.2	VOC Ref #3	Gary Krasinski	07/03/14 09:52	Retrieve from Storage
MC31799-8.2	Gary Krasinski	GCMSU	07/03/14 09:52	Load on Instrument
MC31799-8.2	GCMSU	Amy Min Yang	07/05/14 10:49	Unload from Instrument
MC31799-8.2	Amy Min Yang	VOC Ref #3	07/05/14 10:49	Return to Storage
MC31799-9.1	VOC Ref #3	Gary Krasinski	07/08/14 09:59	Retrieve from Storage
MC31799-9.1	Gary Krasinski	GCMSU	07/08/14 09:59	Load on Instrument
MC31799-9.1	GCMSU	Gary Krasinski	07/09/14 08:06	Unload from Instrument
MC31799-9.1	Gary Krasinski	VOC Ref #3	07/09/14 08:06	Return to Storage
MC31799-9.2	VOC Ref #3	Gary Krasinski	07/03/14 09:52	Retrieve from Storage
MC31799-9.2	Gary Krasinski	GCMSU	07/03/14 09:52	Load on Instrument
MC31799-9.2	GCMSU	Amy Min Yang	07/05/14 10:49	Unload from Instrument
MC31799-9.2	Amy Min Yang	VOC Ref #3	07/05/14 10:49	Return to Storage
MC31799-9.3	VOC Ref #3	Amy Min Yang	07/05/14 10:50	Retrieve from Storage
MC31799-9.3	Amy Min Yang	GCMSU	07/05/14 10:51	Load on Instrument
MC31799-9.3	GCMSU	Gary Krasinski	07/07/14 10:42	Unload from Instrument
MC31799-9.3	Gary Krasinski	VOC Ref #3	07/07/14 10:42	Return to Storage
MC31799-10.1	VOC Ref #3	Amy Min Yang	07/05/14 10:50	Retrieve from Storage
MC31799-10.1	Amy Min Yang	GCMSU	07/05/14 10:51	Load on Instrument
MC31799-10.1	GCMSU	Gary Krasinski	07/07/14 10:42	Unload from Instrument
MC31799-10.1	Gary Krasinski	VOC Ref #3	07/07/14 10:42	Return to Storage
MC31799-10.2	VOC Ref #3	Gary Krasinski	07/08/14 09:59	Retrieve from Storage
MC31799-10.2	Gary Krasinski	GCMSU	07/08/14 09:59	Load on Instrument
MC31799-10.2	GCMSU	Gary Krasinski	07/09/14 08:06	Unload from Instrument
MC31799-10.2	Gary Krasinski	VOC Ref #3	07/09/14 08:06	Return to Storage
MC31799-10.3	VOC Ref #3	Gary Krasinski	07/03/14 09:52	Retrieve from Storage
MC31799-10.3	Gary Krasinski	GCMSU	07/03/14 09:52	Load on Instrument
MC31799-10.3	GCMSU	Amy Min Yang	07/05/14 10:49	Unload from Instrument
MC31799-10.3	Amy Min Yang	VOC Ref #3	07/05/14 10:49	Return to Storage
MC31799-11.1	VOC Ref #3	Gary Krasinski	07/03/14 09:52	Retrieve from Storage
MC31799-11.1	Gary Krasinski	GCMSU	07/03/14 09:52	Load on Instrument
MC31799-11.1	GCMSU	Amy Min Yang	07/05/14 10:49	Unload from Instrument

Accutest Internal Chain of Custody

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY
Received: 07/01/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC31799-11.1	Amy Min Yang	VOC Ref #3	07/05/14 10:49	Return to Storage
MC31799-11.2	VOC Ref #3	Gary Krasinski	07/08/14 09:59	Retrieve from Storage
MC31799-11.2	Gary Krasinski	GCMSU	07/08/14 09:59	Load on Instrument
MC31799-11.2	GCMSU	Gary Krasinski	07/09/14 08:06	Unload from Instrument
MC31799-11.2	Gary Krasinski	VOC Ref #3	07/09/14 08:06	Return to Storage
MC31799-11.3	VOC Ref #3	Amy Min Yang	07/05/14 10:50	Retrieve from Storage
MC31799-11.3	Amy Min Yang	GCMSU	07/05/14 10:51	Load on Instrument
MC31799-11.3	GCMSU	Gary Krasinski	07/07/14 10:42	Unload from Instrument
MC31799-11.3	Gary Krasinski	VOC Ref #3	07/07/14 10:42	Return to Storage
MC31799-12.1	VOC Ref #3	Gary Krasinski	07/03/14 09:52	Retrieve from Storage
MC31799-12.1	Gary Krasinski	GCMSU	07/03/14 09:52	Load on Instrument
MC31799-12.1	GCMSU	Amy Min Yang	07/05/14 10:49	Unload from Instrument
MC31799-12.1	Amy Min Yang	VOC Ref #3	07/05/14 10:49	Return to Storage
MC31799-13.1	VOC Ref #3	Gary Krasinski	07/03/14 09:52	Retrieve from Storage
MC31799-13.1	Gary Krasinski	GCMSU	07/03/14 09:52	Load on Instrument
MC31799-13.1	GCMSU	Amy Min Yang	07/05/14 10:49	Unload from Instrument
MC31799-13.1	Amy Min Yang	VOC Ref #3	07/05/14 10:49	Return to Storage
MC31799-14.3	VOC Ref #3	Gary Krasinski	07/03/14 09:52	Retrieve from Storage
MC31799-14.3	Gary Krasinski	GCMSU	07/03/14 09:52	Load on Instrument
MC31799-14.3	GCMSU	Amy Min Yang	07/05/14 10:49	Unload from Instrument
MC31799-14.3	Amy Min Yang	VOC Ref #3	07/05/14 10:49	Return to Storage
MC31799-15.1	VOC Ref #3	Gary Krasinski	07/03/14 09:52	Retrieve from Storage
MC31799-15.1	Gary Krasinski	GCMSU	07/03/14 09:52	Load on Instrument
MC31799-15.1	GCMSU	Amy Min Yang	07/05/14 10:49	Unload from Instrument
MC31799-15.1	Amy Min Yang	VOC Ref #3	07/05/14 10:49	Return to Storage
MC31799-16.1	VOC Ref #3	Amy Min Yang	07/05/14 10:50	Retrieve from Storage
MC31799-16.1	Amy Min Yang	GCMSU	07/05/14 10:51	Load on Instrument
MC31799-16.1	GCMSU	Gary Krasinski	07/07/14 10:42	Unload from Instrument
MC31799-16.1	Gary Krasinski	VOC Ref #3	07/07/14 10:42	Return to Storage
MC31799-16.2	VOC Ref #3	Gary Krasinski	07/08/14 09:59	Retrieve from Storage
MC31799-16.2	Gary Krasinski	GCMSU	07/08/14 09:59	Load on Instrument
MC31799-16.2	GCMSU	Gary Krasinski	07/09/14 08:06	Unload from Instrument
MC31799-16.2	Gary Krasinski	VOC Ref #3	07/09/14 08:06	Return to Storage
MC31799-16.3	VOC Ref #3	Gary Krasinski	07/03/14 09:52	Retrieve from Storage
MC31799-16.3	Gary Krasinski	GCMSU	07/03/14 09:52	Load on Instrument

Accutest Internal Chain of Custody

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY
Received: 07/01/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC31799-16.3	GCMSU	Amy Min Yang	07/05/14 10:49	Unload from Instrument
MC31799-16.3	Amy Min Yang	VOC Ref #3	07/05/14 10:49	Return to Storage
MC31799-17.1	VOC Ref #3	Amy Min Yang	07/05/14 10:50	Retrieve from Storage
MC31799-17.1	Amy Min Yang	GCMSU	07/05/14 10:51	Load on Instrument
MC31799-17.1	GCMSU	Gary Krasinski	07/07/14 10:42	Unload from Instrument
MC31799-17.1	Gary Krasinski	VOC Ref #3	07/07/14 10:42	Return to Storage
MC31799-17.2	VOC Ref #3	Gary Krasinski	07/08/14 09:59	Retrieve from Storage
MC31799-17.2	Gary Krasinski	GCMSU	07/08/14 09:59	Load on Instrument
MC31799-17.2	GCMSU	Gary Krasinski	07/09/14 08:06	Unload from Instrument
MC31799-17.2	Gary Krasinski	VOC Ref #3	07/09/14 08:06	Return to Storage
MC31799-17.4	VOC Ref #3	Amy Min Yang	07/05/14 10:50	Retrieve from Storage
MC31799-17.4	Amy Min Yang	GCMSU	07/05/14 10:51	Load on Instrument
MC31799-17.4	GCMSU	Gary Krasinski	07/07/14 10:42	Unload from Instrument
MC31799-17.4	Gary Krasinski	VOC Ref #3	07/07/14 10:42	Return to Storage
MC31799-17.5	VOC Ref #3	Amy Min Yang	07/05/14 10:50	Retrieve from Storage
MC31799-17.5	Amy Min Yang	GCMSU	07/05/14 10:51	Load on Instrument
MC31799-17.5	GCMSU	Gary Krasinski	07/07/14 10:42	Unload from Instrument
MC31799-17.5	Gary Krasinski	VOC Ref #3	07/07/14 10:42	Return to Storage
MC31799-17.6	VOC Ref #3	Amy Min Yang	07/05/14 10:50	Retrieve from Storage
MC31799-17.6	Amy Min Yang	GCMSU	07/05/14 10:51	Load on Instrument
MC31799-17.6	GCMSU	Gary Krasinski	07/07/14 10:42	Unload from Instrument
MC31799-17.6	Gary Krasinski	VOC Ref #3	07/07/14 10:42	Return to Storage
MC31799-17.7	VOC Ref #3	Gary Krasinski	07/08/14 09:59	Retrieve from Storage
MC31799-17.7	Gary Krasinski	GCMSU	07/08/14 09:59	Load on Instrument
MC31799-17.7	GCMSU	Gary Krasinski	07/09/14 08:06	Unload from Instrument
MC31799-17.7	Gary Krasinski	VOC Ref #3	07/09/14 08:06	Return to Storage
MC31799-17.8	VOC Ref #3	Gary Krasinski	07/08/14 09:59	Retrieve from Storage
MC31799-17.8	Gary Krasinski	GCMSU	07/08/14 09:59	Load on Instrument
MC31799-17.8	GCMSU	Gary Krasinski	07/09/14 08:06	Unload from Instrument
MC31799-17.8	Gary Krasinski	VOC Ref #3	07/09/14 08:06	Return to Storage
MC31799-17.9	VOC Ref #3	Gary Krasinski	07/08/14 09:59	Retrieve from Storage
MC31799-17.9	Gary Krasinski	GCMSU	07/08/14 09:59	Load on Instrument
MC31799-17.9	GCMSU	Gary Krasinski	07/09/14 08:06	Unload from Instrument
MC31799-17.9	Gary Krasinski	VOC Ref #3	07/09/14 08:06	Return to Storage
MC31799-18.2	VOC Ref #3	Gary Krasinski	07/03/14 09:52	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY
Received: 07/01/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC31799-18.2	Gary Krasinski	GCMSU	07/03/14 09:52	Load on Instrument
MC31799-18.2	GCMSU	Amy Min Yang	07/05/14 10:49	Unload from Instrument
MC31799-18.2	Amy Min Yang	VOC Ref #3	07/05/14 10:49	Return to Storage
MC31799-19.1	VOC Ref #3	Amy Min Yang	07/05/14 10:50	Retrieve from Storage
MC31799-19.1	Amy Min Yang	GCMSU	07/05/14 10:51	Load on Instrument
MC31799-19.1	GCMSU	Gary Krasinski	07/07/14 10:42	Unload from Instrument
MC31799-19.1	Gary Krasinski	VOC Ref #3	07/07/14 10:42	Return to Storage
MC31799-19.2	VOC Ref #3	Gary Krasinski	07/07/14 11:35	Retrieve from Storage
MC31799-19.2	Gary Krasinski	GCMSU	07/07/14 11:35	Load on Instrument
MC31799-19.2	GCMSU	Gary Krasinski	07/07/14 12:31	Unload from Instrument
MC31799-19.2	Gary Krasinski	VOC Ref #3	07/07/14 12:31	Return to Storage
MC31799-19.3	VOC Ref #3	Gary Krasinski	07/08/14 09:59	Retrieve from Storage
MC31799-19.3	Gary Krasinski	GCMSU	07/08/14 09:59	Load on Instrument
MC31799-19.3	GCMSU	Gary Krasinski	07/09/14 08:06	Unload from Instrument
MC31799-19.3	Gary Krasinski	VOC Ref #3	07/09/14 08:06	Return to Storage
MC31799-20.1	VOC Ref #3	Amy Min Yang	07/05/14 10:50	Retrieve from Storage
MC31799-20.1	Amy Min Yang	GCMSU	07/05/14 10:51	Load on Instrument
MC31799-20.1	GCMSU	Gary Krasinski	07/07/14 10:42	Unload from Instrument
MC31799-20.1	Gary Krasinski	VOC Ref #3	07/07/14 10:42	Return to Storage
MC31799-20.2	VOC Ref #3	Gary Krasinski	07/07/14 11:35	Retrieve from Storage
MC31799-20.2	Gary Krasinski	GCMSU	07/07/14 11:35	Load on Instrument
MC31799-20.2	GCMSU	Gary Krasinski	07/07/14 12:31	Unload from Instrument
MC31799-20.2	Gary Krasinski	VOC Ref #3	07/07/14 12:31	Return to Storage
MC31799-20.2	VOC Ref #3	Gary Krasinski	07/08/14 09:59	Retrieve from Storage
MC31799-20.2	Gary Krasinski	GCMSU	07/08/14 09:59	Load on Instrument
MC31799-20.2	GCMSU	Gary Krasinski	07/09/14 08:06	Unload from Instrument
MC31799-20.2	Gary Krasinski	VOC Ref #3	07/09/14 08:06	Return to Storage
MC31799-21.1	VOC Ref #3	Amy Min Yang	07/05/14 10:50	Retrieve from Storage
MC31799-21.1	Amy Min Yang	GCMSU	07/05/14 10:51	Load on Instrument
MC31799-21.1	GCMSU	Gary Krasinski	07/07/14 10:42	Unload from Instrument
MC31799-21.1	Gary Krasinski	VOC Ref #3	07/07/14 10:42	Return to Storage
MC31799-21.3	VOC Ref #3	Gary Krasinski	07/08/14 09:59	Retrieve from Storage
MC31799-21.3	Gary Krasinski	GCMSU	07/08/14 09:59	Load on Instrument
MC31799-21.3	GCMSU	Gary Krasinski	07/09/14 08:06	Unload from Instrument
MC31799-21.3	Gary Krasinski	VOC Ref #3	07/09/14 08:06	Return to Storage
MC31799-22.1	VOC Ref #3	Amy Min Yang	07/05/14 10:50	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY
Received: 07/01/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC31799-22.1	Amy Min Yang	GCMSU	07/05/14 10:51	Load on Instrument
MC31799-22.1	GCMSU	Gary Krasinski	07/07/14 10:42	Unload from Instrument
MC31799-22.1	Gary Krasinski	VOC Ref #3	07/07/14 10:42	Return to Storage
MC31799-22.2	VOC Ref #3	Gary Krasinski	07/08/14 09:59	Retrieve from Storage
MC31799-22.2	Gary Krasinski	GCMSU	07/08/14 09:59	Load on Instrument
MC31799-22.2	GCMSU	Gary Krasinski	07/09/14 08:06	Unload from Instrument
MC31799-22.2	Gary Krasinski	VOC Ref #3	07/09/14 08:06	Return to Storage
MC31799-23.1	VOC Ref #3	Amy Min Yang	07/05/14 10:50	Retrieve from Storage
MC31799-23.1	Amy Min Yang	GCMSU	07/05/14 10:51	Load on Instrument
MC31799-23.1	GCMSU	Gary Krasinski	07/07/14 10:42	Unload from Instrument
MC31799-23.1	Gary Krasinski	VOC Ref #3	07/07/14 10:42	Return to Storage
MC31799-23.3	VOC Ref #3	Gary Krasinski	07/08/14 09:59	Retrieve from Storage
MC31799-23.3	Gary Krasinski	GCMSU	07/08/14 09:59	Load on Instrument
MC31799-23.3	GCMSU	Gary Krasinski	07/09/14 08:06	Unload from Instrument
MC31799-23.3	Gary Krasinski	VOC Ref #3	07/09/14 08:06	Return to Storage
MC31799-24.1	VOC Ref #3	Amy Min Yang	07/05/14 10:50	Retrieve from Storage
MC31799-24.1	Amy Min Yang	GCMSU	07/05/14 10:51	Load on Instrument
MC31799-24.1	GCMSU	Gary Krasinski	07/07/14 10:42	Unload from Instrument
MC31799-24.1	Gary Krasinski	VOC Ref #3	07/07/14 10:42	Return to Storage
MC31799-24.2	VOC Ref #3	Amy Min Yang	07/05/14 10:50	Retrieve from Storage
MC31799-24.2	Amy Min Yang	GCMSU	07/05/14 10:51	Load on Instrument
MC31799-24.2	GCMSU	Gary Krasinski	07/07/14 10:42	Unload from Instrument
MC31799-24.2	Gary Krasinski	VOC Ref #3	07/07/14 10:42	Return to Storage
MC31799-24.3	VOC Ref #3	Amy Min Yang	07/05/14 10:50	Retrieve from Storage
MC31799-24.3	Amy Min Yang	GCMSU	07/05/14 10:51	Load on Instrument
MC31799-24.3	GCMSU	Gary Krasinski	07/07/14 10:42	Unload from Instrument
MC31799-24.3	Gary Krasinski	VOC Ref #3	07/07/14 10:42	Return to Storage
MC31799-24.4	VOC Ref #3	Gary Krasinski	07/08/14 09:59	Retrieve from Storage
MC31799-24.4	Gary Krasinski	GCMSU	07/08/14 09:59	Load on Instrument
MC31799-24.4	GCMSU	Gary Krasinski	07/09/14 08:06	Unload from Instrument
MC31799-24.4	Gary Krasinski	VOC Ref #3	07/09/14 08:06	Return to Storage
MC31799-24.5	VOC Ref #3	Gary Krasinski	07/08/14 09:59	Retrieve from Storage
MC31799-24.5	Gary Krasinski	GCMSU	07/08/14 09:59	Load on Instrument
MC31799-24.5	GCMSU	Gary Krasinski	07/09/14 08:06	Unload from Instrument
MC31799-24.5	Gary Krasinski	VOC Ref #3	07/09/14 08:06	Return to Storage

Accutest Internal Chain of Custody

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY
Received: 07/01/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC31799-24.6	VOC Ref #3	Amy Min Yang	07/05/14 10:50	Retrieve from Storage
MC31799-24.6	Amy Min Yang	GCMSU	07/05/14 10:51	Load on Instrument
MC31799-24.6	GCMSU	Gary Krasinski	07/07/14 10:42	Unload from Instrument
MC31799-24.6	Gary Krasinski	VOC Ref #3	07/07/14 10:42	Return to Storage
MC31799-24.7	VOC Ref #3	Gary Krasinski	07/08/14 09:59	Retrieve from Storage
MC31799-24.7	Gary Krasinski	GCMSU	07/08/14 09:59	Load on Instrument
MC31799-24.7	GCMSU	Gary Krasinski	07/09/14 08:06	Unload from Instrument
MC31799-24.7	Gary Krasinski	VOC Ref #3	07/09/14 08:06	Return to Storage
MC31799-24.9	VOC Ref #3	Gary Krasinski	07/08/14 09:59	Retrieve from Storage
MC31799-24.9	Gary Krasinski	GCMSU	07/08/14 09:59	Load on Instrument
MC31799-24.9	GCMSU	Gary Krasinski	07/09/14 08:06	Unload from Instrument
MC31799-24.9	Gary Krasinski	VOC Ref #3	07/09/14 08:06	Return to Storage
MC31799-25.1	VOC Ref #3	Amy Min Yang	07/05/14 10:50	Retrieve from Storage
MC31799-25.1	Amy Min Yang	GCMSU	07/05/14 10:51	Load on Instrument
MC31799-25.1	GCMSU	Gary Krasinski	07/07/14 10:42	Unload from Instrument
MC31799-25.1	Gary Krasinski	VOC Ref #3	07/07/14 10:42	Return to Storage
MC31799-25.3	VOC Ref #3	Gary Krasinski	07/08/14 09:59	Retrieve from Storage
MC31799-25.3	Gary Krasinski	GCMSU	07/08/14 09:59	Load on Instrument
MC31799-25.3	GCMSU	Gary Krasinski	07/09/14 08:06	Unload from Instrument
MC31799-25.3	Gary Krasinski	VOC Ref #3	07/09/14 08:06	Return to Storage
MC31799-26.2	VOC Ref #3	Amy Min Yang	07/05/14 10:50	Retrieve from Storage
MC31799-26.2	Amy Min Yang	GCMSU	07/05/14 10:51	Load on Instrument
MC31799-26.2	GCMSU	Gary Krasinski	07/07/14 10:42	Unload from Instrument
MC31799-26.2	Gary Krasinski	VOC Ref #3	07/07/14 10:42	Return to Storage
MC31799-26.3	VOC Ref #3	Gary Krasinski	07/08/14 09:59	Retrieve from Storage
MC31799-26.3	Gary Krasinski	GCMSU	07/08/14 09:59	Load on Instrument
MC31799-26.3	GCMSU	Gary Krasinski	07/09/14 08:06	Unload from Instrument
MC31799-26.3	Gary Krasinski	VOC Ref #3	07/09/14 08:06	Return to Storage
MC31799-27.1	VOC Ref #3	Amy Min Yang	07/05/14 10:50	Retrieve from Storage
MC31799-27.1	Amy Min Yang	GCMSU	07/05/14 10:51	Load on Instrument
MC31799-27.1	GCMSU	Gary Krasinski	07/07/14 10:42	Unload from Instrument
MC31799-27.1	Gary Krasinski	VOC Ref #3	07/07/14 10:42	Return to Storage
MC31799-27.2	VOC Ref #3	Gary Krasinski	07/08/14 09:59	Retrieve from Storage
MC31799-27.2	Gary Krasinski	GCMSU	07/08/14 09:59	Load on Instrument
MC31799-27.2	GCMSU	Gary Krasinski	07/09/14 08:06	Unload from Instrument
MC31799-27.2	Gary Krasinski	VOC Ref #3	07/09/14 08:06	Return to Storage

Accutest Internal Chain of Custody

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY
Received: 07/01/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC31799-28.1	VOC Ref #3	Amy Min Yang	07/05/14 10:50	Retrieve from Storage
MC31799-28.1	Amy Min Yang	GCMSU	07/05/14 10:51	Load on Instrument
MC31799-28.1	GCMSU	Gary Krasinski	07/07/14 10:42	Unload from Instrument
MC31799-28.1	Gary Krasinski	VOC Ref #3	07/07/14 10:42	Return to Storage
MC31799-28.2	VOC Ref #3	Gary Krasinski	07/08/14 09:59	Retrieve from Storage
MC31799-28.2	Gary Krasinski	GCMSU	07/08/14 09:59	Load on Instrument
MC31799-28.2	GCMSU	Gary Krasinski	07/09/14 08:06	Unload from Instrument
MC31799-28.2	Gary Krasinski	VOC Ref #3	07/09/14 08:06	Return to Storage
MC31799-29.1	VOC Ref #3	Amy Min Yang	07/05/14 10:50	Retrieve from Storage
MC31799-29.1	Amy Min Yang	GCMSU	07/05/14 10:51	Load on Instrument
MC31799-29.1	GCMSU	Gary Krasinski	07/07/14 10:42	Unload from Instrument
MC31799-29.1	Gary Krasinski	VOC Ref #3	07/07/14 10:42	Return to Storage
MC31799-29.2	VOC Ref #3	Gary Krasinski	07/08/14 09:59	Retrieve from Storage
MC31799-29.2	Gary Krasinski	GCMSU	07/08/14 09:59	Load on Instrument
MC31799-29.2	GCMSU	Gary Krasinski	07/09/14 08:06	Unload from Instrument
MC31799-29.2	Gary Krasinski	VOC Ref #3	07/09/14 08:06	Return to Storage
MC31799-30.1	VOC Ref #3	Amy Min Yang	07/05/14 10:50	Retrieve from Storage
MC31799-30.1	Amy Min Yang	GCMSU	07/05/14 10:51	Load on Instrument
MC31799-30.1	GCMSU	Gary Krasinski	07/07/14 10:42	Unload from Instrument
MC31799-30.1	Gary Krasinski	VOC Ref #3	07/07/14 10:42	Return to Storage
MC31799-30.2	VOC Ref #3	Gary Krasinski	07/08/14 09:59	Retrieve from Storage
MC31799-30.2	Gary Krasinski	GCMSU	07/08/14 09:59	Load on Instrument
MC31799-30.2	GCMSU	Gary Krasinski	07/09/14 08:06	Unload from Instrument
MC31799-30.2	Gary Krasinski	VOC Ref #3	07/09/14 08:06	Return to Storage
MC31799-31.1	VOC Ref #3	Gary Krasinski	07/07/14 11:35	Retrieve from Storage
MC31799-31.1	Gary Krasinski	GCMSU	07/07/14 11:35	Load on Instrument
MC31799-31.1	GCMSU	Gary Krasinski	07/08/14 08:13	Unload from Instrument
MC31799-31.1	Gary Krasinski	VOC Ref #3	07/08/14 08:13	Return to Storage
MC31799-32.3	VOC Ref #3	Gary Krasinski	07/07/14 11:35	Retrieve from Storage
MC31799-32.3	Gary Krasinski	GCMSU	07/07/14 11:35	Load on Instrument
MC31799-32.3	GCMSU	Gary Krasinski	07/08/14 08:13	Unload from Instrument
MC31799-32.3	Gary Krasinski	VOC Ref #3	07/08/14 08:13	Return to Storage
MC31799-33.2	VOC Ref #3	Gary Krasinski	07/07/14 11:35	Retrieve from Storage
MC31799-33.2	Gary Krasinski	GCMSU	07/07/14 11:35	Load on Instrument
MC31799-33.2	GCMSU	Gary Krasinski	07/08/14 08:13	Unload from Instrument

Accutest Internal Chain of Custody

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY
Received: 07/01/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC31799-33.2	Gary Krasinski	VOC Ref #3	07/08/14 08:13	Return to Storage
MC31799-34.2	VOC Ref #3	Gary Krasinski	07/07/14 11:35	Retrieve from Storage
MC31799-34.2	Gary Krasinski	GCMSU	07/07/14 11:35	Load on Instrument
MC31799-34.2	GCMSU	Gary Krasinski	07/08/14 08:13	Unload from Instrument
MC31799-34.2	Gary Krasinski	VOC Ref #3	07/08/14 08:13	Return to Storage

New England ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU934-MB	U20832.D	1	07/03/14	GK	n/a	n/a	MSU934

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC31799-1, MC31799-2, MC31799-3, MC31799-4, MC31799-5, MC31799-6, MC31799-7, MC31799-8, MC31799-9, MC31799-11, MC31799-12, MC31799-13, MC31799-14, MC31799-15, MC31799-16, MC31799-18

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.3	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	

Method Blank Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU934-MB	U20832.D	1	07/03/14	GK	n/a	n/a	MSU934

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC31799-1, MC31799-2, MC31799-3, MC31799-4, MC31799-5, MC31799-6, MC31799-7, MC31799-8, MC31799-9, MC31799-11, MC31799-12, MC31799-13, MC31799-14, MC31799-15, MC31799-16, MC31799-18

CAS No.	Compound	Result	RL	MDL	Units	Q
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	124%	70-130%
2037-26-5	Toluene-D8	102%	70-130%
460-00-4	4-Bromofluorobenzene	100%	70-130%

Method Blank Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU936-MB	U20907.D	1	07/07/14	GK	n/a	n/a	MSU936

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC31799-31, MC31799-32, MC31799-33, MC31799-34

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.3	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	

Method Blank Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU936-MB	U20907.D	1	07/07/14	GK	n/a	n/a	MSU936

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC31799-31, MC31799-32, MC31799-33, MC31799-34

CAS No.	Compound	Result	RL	MDL	Units	Q
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	122%	70-130%
2037-26-5	Toluene-D8	103%	70-130%
460-00-4	4-Bromofluorobenzene	103%	70-130%

Method Blank Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU937-MB	U20935.D	1	07/08/14	GK	n/a	n/a	MSU937

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC31799-9, MC31799-10, MC31799-11, MC31799-16, MC31799-17, MC31799-19, MC31799-20, MC31799-21, MC31799-22, MC31799-23, MC31799-24, MC31799-25, MC31799-26, MC31799-27, MC31799-28, MC31799-29, MC31799-30

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.57	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.3	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	

Method Blank Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU937-MB	U20935.D	1	07/08/14	GK	n/a	n/a	MSU937

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC31799-9, MC31799-10, MC31799-11, MC31799-16, MC31799-17, MC31799-19, MC31799-20, MC31799-21, MC31799-22, MC31799-23, MC31799-24, MC31799-25, MC31799-26, MC31799-27, MC31799-28, MC31799-29, MC31799-30

CAS No.	Compound	Result	RL	MDL	Units	Q
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	121%	70-130%
2037-26-5	Toluene-D8	105%	70-130%
460-00-4	4-Bromofluorobenzene	102%	70-130%

Blank Spike Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU934-BS	U20829.D	1	07/03/14	GK	n/a	n/a	MSU934

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC31799-1, MC31799-2, MC31799-3, MC31799-4, MC31799-5, MC31799-6, MC31799-7, MC31799-8, MC31799-9, MC31799-11, MC31799-12, MC31799-13, MC31799-14, MC31799-15, MC31799-16, MC31799-18

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	27.1	54* [a]	70-130
71-43-2	Benzene	50	46.8	94	70-130
74-97-5	Bromochloromethane	50	52.1	104	70-130
75-27-4	Bromodichloromethane	50	50.6	101	70-130
75-25-2	Bromoform	50	47.6	95	70-130
74-83-9	Bromomethane	50	52.4	105	70-130
78-93-3	2-Butanone (MEK)	50	31.9	64* [a]	70-130
75-15-0	Carbon disulfide	50	47.7	95	70-130
56-23-5	Carbon tetrachloride	50	51.1	102	70-130
108-90-7	Chlorobenzene	50	49.7	99	70-130
75-00-3	Chloroethane	50	49.5	99	70-130
67-66-3	Chloroform	50	48.7	97	70-130
74-87-3	Chloromethane	50	51.7	103	70-130
110-82-7	Cyclohexane	50	51.2	102	71-145
96-12-8	1,2-Dibromo-3-chloropropane	50	46.4	93	70-130
124-48-1	Dibromochloromethane	50	52.1	104	70-130
106-93-4	1,2-Dibromoethane	50	50.2	100	70-130
95-50-1	1,2-Dichlorobenzene	50	53.8	108	70-130
541-73-1	1,3-Dichlorobenzene	50	52.6	105	70-130
106-46-7	1,4-Dichlorobenzene	50	49.5	99	70-130
75-71-8	Dichlorodifluoromethane	50	45.1	90	70-130
75-34-3	1,1-Dichloroethane	50	50.8	102	70-130
107-06-2	1,2-Dichloroethane	50	48.0	96	70-130
75-35-4	1,1-Dichloroethene	50	50.1	100	70-130
156-59-2	cis-1,2-Dichloroethene	50	48.3	97	70-130
156-60-5	trans-1,2-Dichloroethene	50	48.9	98	70-130
78-87-5	1,2-Dichloropropane	50	48.1	96	70-130
10061-01-5	cis-1,3-Dichloropropene	50	45.8	92	70-130
10061-02-6	trans-1,3-Dichloropropene	50	48.3	97	70-130
100-41-4	Ethylbenzene	50	49.8	100	70-130
76-13-1	Freon 113	50	52.3	105	70-130
591-78-6	2-Hexanone	50	36.9	74	70-130
74-88-4	Iodomethane	50	47.1	94	70-130
98-82-8	Isopropylbenzene	50	54.7	109	70-130
79-20-9	Methyl Acetate	50	53.1	106	40-137
108-87-2	Methylcyclohexane	50	51.8	104	74-143

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU934-BS	U20829.D	1	07/03/14	GK	n/a	n/a	MSU934

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC31799-1, MC31799-2, MC31799-3, MC31799-4, MC31799-5, MC31799-6, MC31799-7, MC31799-8, MC31799-9, MC31799-11, MC31799-12, MC31799-13, MC31799-14, MC31799-15, MC31799-16, MC31799-18

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
1634-04-4	Methyl Tert Butyl Ether	50	40.8	82	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	49.4	99	70-130
75-09-2	Methylene chloride	50	48.6	97	70-130
100-42-5	Styrene	50	48.4	97	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	58.1	116	70-130
127-18-4	Tetrachloroethene	50	52.5	105	70-130
108-88-3	Toluene	50	47.7	95	70-130
87-61-6	1,2,3-Trichlorobenzene	50	63.2	126	70-130
120-82-1	1,2,4-Trichlorobenzene	50	62.4	125	70-130
71-55-6	1,1,1-Trichloroethane	50	49.9	100	70-130
79-00-5	1,1,2-Trichloroethane	50	46.6	93	70-130
79-01-6	Trichloroethene	50	45.3	91	70-130
75-69-4	Trichlorofluoromethane	50	47.7	95	70-130
75-01-4	Vinyl chloride	50	45.5	91	70-130
1330-20-7	Xylene (total)	150	150	100	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	123%	70-130%
2037-26-5	Toluene-D8	111%	70-130%
460-00-4	4-Bromofluorobenzene	103%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU936-BS	U20904.D	1	07/07/14	GK	n/a	n/a	MSU936

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC31799-31, MC31799-32, MC31799-33, MC31799-34

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	27.1	54* [a]	70-130
71-43-2	Benzene	50	45.9	92	70-130
74-97-5	Bromochloromethane	50	51.4	103	70-130
75-27-4	Bromodichloromethane	50	51.6	103	70-130
75-25-2	Bromoform	50	49.0	98	70-130
74-83-9	Bromomethane	50	50.2	100	70-130
78-93-3	2-Butanone (MEK)	50	31.0	62* [a]	70-130
75-15-0	Carbon disulfide	50	45.7	91	70-130
56-23-5	Carbon tetrachloride	50	55.5	111	70-130
108-90-7	Chlorobenzene	50	48.9	98	70-130
75-00-3	Chloroethane	50	46.5	93	70-130
67-66-3	Chloroform	50	48.2	96	70-130
74-87-3	Chloromethane	50	51.1	102	70-130
110-82-7	Cyclohexane	50	52.3	105	71-145
96-12-8	1,2-Dibromo-3-chloropropane	50	49.3	99	70-130
124-48-1	Dibromochloromethane	50	52.4	105	70-130
106-93-4	1,2-Dibromoethane	50	47.6	95	70-130
95-50-1	1,2-Dichlorobenzene	50	52.8	106	70-130
541-73-1	1,3-Dichlorobenzene	50	51.3	103	70-130
106-46-7	1,4-Dichlorobenzene	50	48.5	97	70-130
75-71-8	Dichlorodifluoromethane	50	35.8	72	70-130
75-34-3	1,1-Dichloroethane	50	50.0	100	70-130
107-06-2	1,2-Dichloroethane	50	49.1	98	70-130
75-35-4	1,1-Dichloroethene	50	49.7	99	70-130
156-59-2	cis-1,2-Dichloroethene	50	46.7	93	70-130
156-60-5	trans-1,2-Dichloroethene	50	47.6	95	70-130
78-87-5	1,2-Dichloropropane	50	48.0	96	70-130
10061-01-5	cis-1,3-Dichloropropene	50	46.5	93	70-130
10061-02-6	trans-1,3-Dichloropropene	50	49.5	99	70-130
100-41-4	Ethylbenzene	50	48.4	97	70-130
76-13-1	Freon 113	50	52.3	105	70-130
591-78-6	2-Hexanone	50	34.8	70	70-130
74-88-4	Iodomethane	50	46.1	92	70-130
98-82-8	Isopropylbenzene	50	54.9	110	70-130
79-20-9	Methyl Acetate	50	53.0	106	40-137
108-87-2	Methylcyclohexane	50	51.4	103	74-143

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU936-BS	U20904.D	1	07/07/14	GK	n/a	n/a	MSU936

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC31799-31, MC31799-32, MC31799-33, MC31799-34

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
1634-04-4	Methyl Tert Butyl Ether	50	42.4	85	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	52.0	104	70-130
75-09-2	Methylene chloride	50	47.6	95	70-130
100-42-5	Styrene	50	46.5	93	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	57.1	114	70-130
127-18-4	Tetrachloroethene	50	50.9	102	70-130
108-88-3	Toluene	50	47.8	96	70-130
87-61-6	1,2,3-Trichlorobenzene	50	63.5	127	70-130
120-82-1	1,2,4-Trichlorobenzene	50	63.7	127	70-130
71-55-6	1,1,1-Trichloroethane	50	51.9	104	70-130
79-00-5	1,1,2-Trichloroethane	50	45.8	92	70-130
79-01-6	Trichloroethene	50	46.0	92	70-130
75-69-4	Trichlorofluoromethane	50	45.8	92	70-130
75-01-4	Vinyl chloride	50	43.1	86	70-130
1330-20-7	Xylene (total)	150	147	98	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	121%	70-130%
2037-26-5	Toluene-D8	110%	70-130%
460-00-4	4-Bromofluorobenzene	102%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU937-BS	U20932.D	1	07/08/14	GK	n/a	n/a	MSU937

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC31799-9, MC31799-10, MC31799-11, MC31799-16, MC31799-17, MC31799-19, MC31799-20, MC31799-21, MC31799-22, MC31799-23, MC31799-24, MC31799-25, MC31799-26, MC31799-27, MC31799-28, MC31799-29, MC31799-30

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	24.5	49* [a]	70-130
71-43-2	Benzene	50	45.4	91	70-130
74-97-5	Bromochloromethane	50	49.9	100	70-130
75-27-4	Bromodichloromethane	50	51.6	103	70-130
75-25-2	Bromoform	50	49.4	99	70-130
74-83-9	Bromomethane	50	50.6	101	70-130
78-93-3	2-Butanone (MEK)	50	27.3	55* [a]	70-130
75-15-0	Carbon disulfide	50	43.8	88	70-130
56-23-5	Carbon tetrachloride	50	54.4	109	70-130
108-90-7	Chlorobenzene	50	49.8	100	70-130
75-00-3	Chloroethane	50	47.8	96	70-130
67-66-3	Chloroform	50	47.8	96	70-130
74-87-3	Chloromethane	50	48.9	98	70-130
110-82-7	Cyclohexane	50	51.2	102	71-145
96-12-8	1,2-Dibromo-3-chloropropane	50	48.1	96	70-130
124-48-1	Dibromochloromethane	50	54.3	109	70-130
106-93-4	1,2-Dibromoethane	50	49.1	98	70-130
95-50-1	1,2-Dichlorobenzene	50	52.7	105	70-130
541-73-1	1,3-Dichlorobenzene	50	52.5	105	70-130
106-46-7	1,4-Dichlorobenzene	50	49.4	99	70-130
75-71-8	Dichlorodifluoromethane	50	35.7	71	70-130
75-34-3	1,1-Dichloroethane	50	49.5	99	70-130
107-06-2	1,2-Dichloroethane	50	48.8	98	70-130
75-35-4	1,1-Dichloroethene	50	47.5	95	70-130
156-59-2	cis-1,2-Dichloroethene	50	46.2	92	70-130
156-60-5	trans-1,2-Dichloroethene	50	45.5	91	70-130
78-87-5	1,2-Dichloropropane	50	47.7	95	70-130
10061-01-5	cis-1,3-Dichloropropene	50	48.5	97	70-130
10061-02-6	trans-1,3-Dichloropropene	50	52.9	106	70-130
100-41-4	Ethylbenzene	50	49.5	99	70-130
76-13-1	Freon 113	50	51.5	103	70-130
591-78-6	2-Hexanone	50	34.5	69* [a]	70-130
74-88-4	Iodomethane	50	43.7	87	70-130
98-82-8	Isopropylbenzene	50	55.1	110	70-130
79-20-9	Methyl Acetate	50	49.7	99	40-137
108-87-2	Methylcyclohexane	50	51.1	102	74-143

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU937-BS	U20932.D	1	07/08/14	GK	n/a	n/a	MSU937

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC31799-9, MC31799-10, MC31799-11, MC31799-16, MC31799-17, MC31799-19, MC31799-20, MC31799-21, MC31799-22, MC31799-23, MC31799-24, MC31799-25, MC31799-26, MC31799-27, MC31799-28, MC31799-29, MC31799-30

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
1634-04-4	Methyl Tert Butyl Ether	50	40.7	81	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	48.2	96	70-130
75-09-2	Methylene chloride	50	45.1	90	70-130
100-42-5	Styrene	50	48.2	96	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	56.0	112	70-130
127-18-4	Tetrachloroethene	50	52.9	106	70-130
108-88-3	Toluene	50	48.6	97	70-130
87-61-6	1,2,3-Trichlorobenzene	50	62.4	125	70-130
120-82-1	1,2,4-Trichlorobenzene	50	62.0	124	70-130
71-55-6	1,1,1-Trichloroethane	50	50.5	101	70-130
79-00-5	1,1,2-Trichloroethane	50	47.2	94	70-130
79-01-6	Trichloroethene	50	45.0	90	70-130
75-69-4	Trichlorofluoromethane	50	49.3	99	70-130
75-01-4	Vinyl chloride	50	43.1	86	70-130
1330-20-7	Xylene (total)	150	148	99	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	121%	70-130%
2037-26-5	Toluene-D8	111%	70-130%
460-00-4	4-Bromofluorobenzene	106%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC31799-4MS	U20850.D	1	07/03/14	GK	n/a	n/a	MSU934
MC31799-4MSD	U20851.D	1	07/03/14	GK	n/a	n/a	MSU934
MC31799-4	U20833.D	1	07/03/14	GK	n/a	n/a	MSU934

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC31799-1, MC31799-2, MC31799-3, MC31799-4, MC31799-5, MC31799-6, MC31799-7, MC31799-8, MC31799-9, MC31799-11, MC31799-12, MC31799-13, MC31799-14, MC31799-15, MC31799-16, MC31799-18

CAS No.	Compound	MC31799-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		50	27.0	54* [a]	50	25.6	51* [a]	5	70-130/30
71-43-2	Benzene	ND		50	47.9	96	50	47.7	95	0	70-130/30
74-97-5	Bromochloromethane	ND		50	54.9	110	50	51.7	103	6	70-130/30
75-27-4	Bromodichloromethane	ND		50	48.7	97	50	49.7	99	2	70-130/30
75-25-2	Bromoform	ND		50	38.3	77	50	40.0	80	4	70-130/30
74-83-9	Bromomethane	ND		50	52.2	104	50	51.3	103	2	70-130/30
78-93-3	2-Butanone (MEK)	ND		50	32.2	64* [a]	50	28.9	58* [a]	11	70-130/30
75-15-0	Carbon disulfide	ND		50	41.4	83	50	40.6	81	2	70-130/30
56-23-5	Carbon tetrachloride	ND		50	49.3	99	50	49.3	99	0	70-130/30
108-90-7	Chlorobenzene	ND		50	50.4	101	50	52.8	106	5	70-130/30
75-00-3	Chloroethane	ND		50	51.0	102	50	49.9	100	2	70-130/30
67-66-3	Chloroform	ND		50	50.8	102	50	49.1	98	3	70-130/30
74-87-3	Chloromethane	ND		50	52.7	105	50	51.9	104	2	70-130/30
110-82-7	Cyclohexane	ND		50	51.4	103	50	50.2	100	2	60-160/30
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	45.4	91	50	43.3	87	5	70-130/30
124-48-1	Dibromochloromethane	ND		50	46.7	93	50	49.5	99	6	70-130/30
106-93-4	1,2-Dibromoethane	ND		50	49.1	98	50	50.8	102	3	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		50	51.7	103	50	51.0	102	1	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		50	49.7	99	50	49.5	99	0	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		50	47.4	95	50	47.1	94	1	70-130/30
75-71-8	Dichlorodifluoromethane	ND		50	39.9	80	50	39.9	80	0	70-130/30
75-34-3	1,1-Dichloroethane	ND		50	52.6	105	50	51.3	103	3	70-130/30
107-06-2	1,2-Dichloroethane	ND		50	50.5	101	50	48.0	96	5	70-130/30
75-35-4	1,1-Dichloroethene	ND		50	52.4	105	50	50.1	100	4	70-130/30
156-59-2	cis-1,2-Dichloroethene	4.9		50	54.4	99	50	53.0	96	3	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		50	50.3	101	50	48.8	98	3	70-130/30
78-87-5	1,2-Dichloropropane	ND		50	48.5	97	50	48.4	97	0	70-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		50	35.0	70	50	37.0	74	6	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		50	35.1	70	50	35.6	71	1	70-130/30
100-41-4	Ethylbenzene	ND		50	49.4	99	50	52.5	105	6	70-130/30
76-13-1	Freon 113	ND		50	54.8	110	50	52.0	104	5	70-130/30
591-78-6	2-Hexanone	ND		50	37.8	76	50	37.4	75	1	70-130/30
74-88-4	Iodomethane	ND		50	48.0	96	50	46.9	94	2	70-130/30
98-82-8	Isopropylbenzene	ND		50	52.5	105	50	52.6	105	0	70-130/30
79-20-9	Methyl Acetate	ND		50	53.2	106	50	47.3	95	12	34-145/30
108-87-2	Methylcyclohexane	ND		50	51.2	102	50	48.9	98	5	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC31799-4MS	U20850.D	1	07/03/14	GK	n/a	n/a	MSU934
MC31799-4MSD	U20851.D	1	07/03/14	GK	n/a	n/a	MSU934
MC31799-4	U20833.D	1	07/03/14	GK	n/a	n/a	MSU934

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC31799-1, MC31799-2, MC31799-3, MC31799-4, MC31799-5, MC31799-6, MC31799-7, MC31799-8, MC31799-9, MC31799-11, MC31799-12, MC31799-13, MC31799-14, MC31799-15, MC31799-16, MC31799-18

CAS No.	Compound	MC31799-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
1634-04-4	Methyl Tert Butyl Ether	ND		50	41.0	82	50	39.9	80	3	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	52.0	104	50	49.5	99	5	70-130/30
75-09-2	Methylene chloride	ND		50	51.8	104	50	49.4	99	5	70-130/30
100-42-5	Styrene	ND		50	46.8	94	50	49.8	100	6	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	57.3	115	50	55.2	110	4	70-130/30
127-18-4	Tetrachloroethene	ND		50	51.2	102	50	55.3	111	8	70-130/30
108-88-3	Toluene	ND		50	47.2	94	50	47.6	95	1	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		50	55.5	111	50	57.4	115	3	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		50	56.1	112	50	56.6	113	1	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		50	52.7	105	50	50.5	101	4	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		50	46.4	93	50	45.9	92	1	70-130/30
79-01-6	Trichloroethene	0.80	J	50	46.4	91	50	46.4	91	0	70-130/30
75-69-4	Trichlorofluoromethane	ND		50	48.5	97	50	47.6	95	2	70-130/30
75-01-4	Vinyl chloride	3.9		50	49.4	91	50	48.5	89	2	70-130/30
1330-20-7	Xylene (total)	ND		150	151	101	150	157	105	4	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	MC31799-4	Limits
1868-53-7	Dibromofluoromethane	127%	122%	122%	70-130%
2037-26-5	Toluene-D8	108%	109%	107%	70-130%
460-00-4	4-Bromofluorobenzene	101%	102%	103%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC31807-1MS	U20924.D	1	07/07/14	GK	n/a	n/a	MSU936
MC31807-1MSD	U20925.D	1	07/07/14	GK	n/a	n/a	MSU936
MC31807-1	U20911.D	1	07/07/14	GK	n/a	n/a	MSU936

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC31799-31, MC31799-32, MC31799-33, MC31799-34

CAS No.	Compound	MC31807-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	15.1		50	32.5	35* [a]	50	33.9	38* [a]	4	70-130/30
71-43-2	Benzene	0.98		50	47.8	94	50	47.7	93	0	70-130/30
74-97-5	Bromochloromethane	ND		50	49.8	100	50	52.5	105	5	70-130/30
75-27-4	Bromodichloromethane	ND		50	52.6	105	50	52.8	106	0	70-130/30
75-25-2	Bromoform	ND		50	47.2	94	50	48.4	97	3	70-130/30
74-83-9	Bromomethane	ND		50	48.6	97	50	49.6	99	2	70-130/30
78-93-3	2-Butanone (MEK)	ND		50	29.6	59* [a]	50	32.1	64* [a]	8	70-130/30
75-15-0	Carbon disulfide	1.4	J	50	41.7	81	50	43.0	83	3	70-130/30
56-23-5	Carbon tetrachloride	ND		50	55.6	111	50	57.1	114	3	70-130/30
108-90-7	Chlorobenzene	ND		50	50.1	100	50	49.7	99	1	70-130/30
75-00-3	Chloroethane	ND		50	46.4	93	50	47.6	95	3	70-130/30
67-66-3	Chloroform	ND		50	48.9	98	50	50.3	101	3	70-130/30
74-87-3	Chloromethane	ND		50	49.3	99	50	52.1	104	6	70-130/30
110-82-7	Cyclohexane	ND		50	51.7	103	50	52.8	106	2	60-160/30
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	51.5	103	50	52.9	106	3	70-130/30
124-48-1	Dibromochloromethane	ND		50	52.1	104	50	52.9	106	2	70-130/30
106-93-4	1,2-Dibromoethane	ND		50	48.6	97	50	49.5	99	2	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		50	53.1	106	50	54.0	108	2	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		50	52.1	104	50	52.4	105	1	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		50	49.4	99	50	48.3	97	2	70-130/30
75-71-8	Dichlorodifluoromethane	ND		50	36.3	73	50	38.0	76	5	70-130/30
75-34-3	1,1-Dichloroethane	ND		50	50.0	100	50	51.2	102	2	70-130/30
107-06-2	1,2-Dichloroethane	ND		50	51.0	102	50	51.8	104	2	70-130/30
75-35-4	1,1-Dichloroethene	ND		50	47.9	96	50	49.9	100	4	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		50	46.6	93	50	47.9	96	3	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		50	46.4	93	50	47.6	95	3	70-130/30
78-87-5	1,2-Dichloropropane	ND		50	48.0	96	50	48.2	96	0	70-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		50	41.2	82	50	41.9	84	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		50	42.5	85	50	43.7	87	3	70-130/30
100-41-4	Ethylbenzene	0.45	J	50	51.0	101	50	49.7	99	3	70-130/30
76-13-1	Freon 113	ND		50	52.0	104	50	52.1	104	0	70-130/30
591-78-6	2-Hexanone	ND		50	38.4	77	50	38.6	77	1	70-130/30
74-88-4	Iodomethane	ND		50	45.2	90	50	47.0	94	4	70-130/30
98-82-8	Isopropylbenzene	ND		50	55.2	110	50	55.2	110	0	70-130/30
79-20-9	Methyl Acetate	ND		50	46.9	94	50	52.6	105	11	34-145/30
108-87-2	Methylcyclohexane	0.69	J	50	51.0	101	50	51.2	101	0	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC31807-1MS	U20924.D	1	07/07/14	GK	n/a	n/a	MSU936
MC31807-1MSD	U20925.D	1	07/07/14	GK	n/a	n/a	MSU936
MC31807-1	U20911.D	1	07/07/14	GK	n/a	n/a	MSU936

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC31799-31, MC31799-32, MC31799-33, MC31799-34

CAS No.	Compound	MC31807-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
1634-04-4	Methyl Tert Butyl Ether	ND		50	41.0	82	50	43.5	87	6	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	52.7	105	50	55.7	111	6	70-130/30
75-09-2	Methylene chloride	ND		50	45.8	92	50	47.7	95	4	70-130/30
100-42-5	Styrene	ND		50	45.1	90	50	45.0	90	0	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	57.4	115	50	60.1	120	5	70-130/30
127-18-4	Tetrachloroethene	ND		50	54.1	108	50	52.1	104	4	70-130/30
108-88-3	Toluene	1.8		50	48.3	93	50	48.5	93	0	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		50	61.2	122	50	65.6	131* [a]	7	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		50	61.0	122	50	63.9	128	5	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		50	51.9	104	50	54.0	108	4	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		50	45.0	90	50	45.8	92	2	70-130/30
79-01-6	Trichloroethene	ND		50	47.4	95	50	47.2	94	0	70-130/30
75-69-4	Trichlorofluoromethane	ND		50	48.3	97	50	49.0	98	1	70-130/30
75-01-4	Vinyl chloride	ND		50	42.9	86	50	45.2	90	5	70-130/30
1330-20-7	Xylene (total)	2.3		150	154	101	150	150	98	3	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	MC31807-1	Limits
1868-53-7	Dibromofluoromethane	119%	121%	123%	70-130%
2037-26-5	Toluene-D8	106%	106%	104%	70-130%
460-00-4	4-Bromofluorobenzene	103%	103%	99%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC31799-17MS	U20953.D	1	07/08/14	GK	n/a	n/a	MSU937
MC31799-17MSD	U20954.D	1	07/08/14	GK	n/a	n/a	MSU937
MC31799-17	U20937.D	1	07/08/14	GK	n/a	n/a	MSU937

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC31799-9, MC31799-10, MC31799-11, MC31799-16, MC31799-17, MC31799-19, MC31799-20, MC31799-21, MC31799-22, MC31799-23, MC31799-25, MC31799-26, MC31799-27, MC31799-28, MC31799-29, MC31799-30

CAS No.	Compound	MC31799-17 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		50	23.9	48* [a]	50	22.3	45* [a]	7	70-130/30
71-43-2	Benzene	ND		50	46.5	93	50	45.1	90	3	70-130/30
74-97-5	Bromochloromethane	ND		50	51.9	104	50	49.6	99	5	70-130/30
75-27-4	Bromodichloromethane	ND		50	53.6	107	50	52.3	105	2	70-130/30
75-25-2	Bromoform	ND		50	47.3	95	50	49.4	99	4	70-130/30
74-83-9	Bromomethane	ND		50	52.8	106	50	48.7	97	8	70-130/30
78-93-3	2-Butanone (MEK)	ND		50	27.3	55* [a]	50	26.7	53* [a]	2	70-130/30
75-15-0	Carbon disulfide	ND		50	38.9	78	50	35.1	70	10	70-130/30
56-23-5	Carbon tetrachloride	ND		50	58.9	118	50	55.3	111	6	70-130/30
108-90-7	Chlorobenzene	ND		50	49.0	98	50	51.2	102	4	70-130/30
75-00-3	Chloroethane	ND		50	48.0	96	50	45.3	91	6	70-130/30
67-66-3	Chloroform	ND		50	50.1	100	50	48.0	96	4	70-130/30
74-87-3	Chloromethane	ND		50	52.9	106	50	50.2	100	5	70-130/30
110-82-7	Cyclohexane	ND		50	52.9	106	50	49.8	100	6	60-160/30
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	48.0	96	50	47.9	96	0	70-130/30
124-48-1	Dibromochloromethane	ND		50	53.1	106	50	54.6	109	3	70-130/30
106-93-4	1,2-Dibromoethane	ND		50	45.9	92	50	48.7	97	6	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		50	53.2	106	50	51.7	103	3	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		50	51.1	102	50	50.1	100	2	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		50	48.2	96	50	47.7	95	1	70-130/30
75-71-8	Dichlorodifluoromethane	ND		50	35.4	71	50	34.4	69* [a]	3	70-130/30
75-34-3	1,1-Dichloroethane	ND		50	50.7	101	50	48.7	97	4	70-130/30
107-06-2	1,2-Dichloroethane	ND		50	51.5	103	50	51.0	102	1	70-130/30
75-35-4	1,1-Dichloroethene	ND		50	48.8	98	50	45.9	92	6	70-130/30
156-59-2	cis-1,2-Dichloroethene	23.1		50	65.9	86	50	63.7	81	3	70-130/30
156-60-5	trans-1,2-Dichloroethene	0.82	J	50	48.1	95	50	44.7	88	7	70-130/30
78-87-5	1,2-Dichloropropane	ND		50	47.0	94	50	46.4	93	1	70-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		50	44.8	90	50	43.1	86	4	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		50	46.5	93	50	45.3	91	3	70-130/30
100-41-4	Ethylbenzene	ND		50	49.7	99	50	50.8	102	2	70-130/30
76-13-1	Freon 113	ND		50	51.1	102	50	49.4	99	3	70-130/30
591-78-6	2-Hexanone	ND		50	33.1	66* [a]	50	34.0	68* [a]	3	70-130/30
74-88-4	Iodomethane	ND		50	46.7	93	50	43.5	87	7	70-130/30
98-82-8	Isopropylbenzene	ND		50	55.3	111	50	52.7	105	5	70-130/30
79-20-9	Methyl Acetate	ND		50	47.4	95	50	48.3	97	2	34-145/30
108-87-2	Methylcyclohexane	ND		50	51.2	102	50	48.8	98	5	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC31799-17MS	U20953.D	1	07/08/14	GK	n/a	n/a	MSU937
MC31799-17MSD	U20954.D	1	07/08/14	GK	n/a	n/a	MSU937
MC31799-17	U20937.D	1	07/08/14	GK	n/a	n/a	MSU937

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC31799-9, MC31799-10, MC31799-11, MC31799-16, MC31799-17, MC31799-19, MC31799-20, MC31799-21, MC31799-22, MC31799-23, MC31799-25, MC31799-26, MC31799-27, MC31799-28, MC31799-29, MC31799-30

CAS No.	Compound	MC31799-17 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
1634-04-4	Methyl Tert Butyl Ether	ND		50	40.7	81	50	41.1	82	1	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	50.3	101	50	48.0	96	5	70-130/30
75-09-2	Methylene chloride	ND		50	47.8	96	50	44.6	89	7	70-130/30
100-42-5	Styrene	ND		50	46.9	94	50	47.9	96	2	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	55.6	111	50	53.3	107	4	70-130/30
127-18-4	Tetrachloroethene	ND		50	52.5	105	50	54.9	110	4	70-130/30
108-88-3	Toluene	ND		50	48.0	96	50	45.4	91	6	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		50	60.8	122	50	61.3	123	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		50	60.1	120	50	60.7	121	1	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		50	54.0	108	50	51.8	104	4	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		50	44.6	89	50	44.5	89	0	70-130/30
79-01-6	Trichloroethene	7.2		50	53.5	93	50	50.8	87	5	70-130/30
75-69-4	Trichlorofluoromethane	ND		50	51.2	102	50	47.3	95	8	70-130/30
75-01-4	Vinyl chloride	ND		50	45.8	92	50	42.5	85	7	70-130/30
1330-20-7	Xylene (total)	ND		150	151	101	150	153	102	1	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	MC31799-17	Limits
1868-53-7	Dibromofluoromethane	121%	120%	120%	70-130%
2037-26-5	Toluene-D8	109%	107%	103%	70-130%
460-00-4	4-Bromofluorobenzene	101%	101%	100%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC31799-24MS	U20955.D	1	07/08/14	GK	n/a	n/a	MSU937
MC31799-24MSD	U20956.D	1	07/08/14	GK	n/a	n/a	MSU937
MC31799-24	U20939.D	1	07/08/14	GK	n/a	n/a	MSU937

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC31799-24

CAS No.	Compound	MC31799-24 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		50	23.8	48* [a]	50	23.4	47* [a]	2	70-130/30
71-43-2	Benzene	ND		50	45.9	92	50	45.5	91	1	70-130/30
74-97-5	Bromochloromethane	ND		50	51.5	103	50	51.3	103	0	70-130/30
75-27-4	Bromodichloromethane	ND		50	53.7	107	50	51.8	104	4	70-130/30
75-25-2	Bromoform	ND		50	46.4	93	50	46.3	93	0	70-130/30
74-83-9	Bromomethane	ND		50	50.2	100	50	48.7	97	3	70-130/30
78-93-3	2-Butanone (MEK)	ND		50	27.7	55* [a]	50	24.4	49* [a]	13	70-130/30
75-15-0	Carbon disulfide	ND		50	35.1	70	50	34.6	69* [a]	1	70-130/30
56-23-5	Carbon tetrachloride	ND		50	56.7	113	50	55.2	110	3	70-130/30
108-90-7	Chlorobenzene	ND		50	48.8	98	50	48.0	96	2	70-130/30
75-00-3	Chloroethane	ND		50	47.0	94	50	46.3	93	2	70-130/30
67-66-3	Chloroform	ND		50	49.9	100	50	49.5	99	1	70-130/30
74-87-3	Chloromethane	ND		50	51.1	102	50	50.2	100	2	70-130/30
110-82-7	Cyclohexane	ND		50	50.5	101	50	50.3	101	0	60-160/30
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	48.0	96	50	48.7	97	1	70-130/30
124-48-1	Dibromochloromethane	ND		50	53.0	106	50	50.5	101	5	70-130/30
106-93-4	1,2-Dibromoethane	ND		50	47.6	95	50	46.9	94	1	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		50	52.3	105	50	51.5	103	2	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		50	51.0	102	50	49.9	100	2	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		50	48.0	96	50	47.5	95	1	70-130/30
75-71-8	Dichlorodifluoromethane	ND		50	33.9	68* [a]	50	35.4	71	4	70-130/30
75-34-3	1,1-Dichloroethane	ND		50	50.5	101	50	50.4	101	0	70-130/30
107-06-2	1,2-Dichloroethane	ND		50	52.0	104	50	50.3	101	3	70-130/30
75-35-4	1,1-Dichloroethene	ND		50	47.9	96	50	46.9	94	2	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		50	46.3	93	50	46.4	93	0	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		50	46.6	93	50	45.4	91	3	70-130/30
78-87-5	1,2-Dichloropropane	ND		50	47.8	96	50	46.7	93	2	70-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		50	45.6	91	50	43.9	88	4	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		50	48.3	97	50	45.9	92	5	70-130/30
100-41-4	Ethylbenzene	ND		50	48.6	97	50	47.7	95	2	70-130/30
76-13-1	Freon 113	ND		50	50.9	102	50	49.5	99	3	70-130/30
591-78-6	2-Hexanone	ND		50	33.0	66* [a]	50	32.4	65* [a]	2	70-130/30
74-88-4	Iodomethane	ND		50	45.7	91	50	45.2	90	1	70-130/30
98-82-8	Isopropylbenzene	ND		50	54.6	109	50	52.4	105	4	70-130/30
79-20-9	Methyl Acetate	ND		50	48.0	96	50	46.8	94	3	34-145/30
108-87-2	Methylcyclohexane	ND		50	49.5	99	50	49.4	99	0	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC31799-24MS	U20955.D	1	07/08/14	GK	n/a	n/a	MSU937
MC31799-24MSD	U20956.D	1	07/08/14	GK	n/a	n/a	MSU937
MC31799-24	U20939.D	1	07/08/14	GK	n/a	n/a	MSU937

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC31799-24

CAS No.	Compound	MC31799-24 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
1634-04-4	Methyl Tert Butyl Ether	ND		50	42.3	85	50	40.5	81	4	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	50.5	101	50	49.6	99	2	70-130/30
75-09-2	Methylene chloride	ND		50	46.5	93	50	46.4	93	0	70-130/30
100-42-5	Styrene	ND		50	44.2	88	50	44.5	89	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	55.1	110	50	54.0	108	2	70-130/30
127-18-4	Tetrachloroethene	ND		50	51.8	104	50	50.4	101	3	70-130/30
108-88-3	Toluene	ND		50	47.9	96	50	45.8	92	4	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		50	62.7	125	50	62.0	124	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		50	60.5	121	50	60.4	121	0	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		50	53.7	107	50	51.6	103	4	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		50	46.2	92	50	44.4	89	4	70-130/30
79-01-6	Trichloroethene	ND		50	46.1	92	50	44.6	89	3	70-130/30
75-69-4	Trichlorofluoromethane	ND		50	49.6	99	50	48.4	97	2	70-130/30
75-01-4	Vinyl chloride	ND		50	44.2	88	50	43.4	87	2	70-130/30
1330-20-7	Xylene (total)	ND		150	146	97	150	145	97	1	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	MC31799-24	Limits
1868-53-7	Dibromofluoromethane	122%	122%	125%	70-130%
2037-26-5	Toluene-D8	109%	108%	102%	70-130%
460-00-4	4-Bromofluorobenzene	102%	104%	100%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSU915-BFB
Lab File ID: U20297.D
Instrument ID: GCMSU
Injection Date: 06/06/14
Injection Time: 16:42

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	36309	23.8		Pass
75	30.0 - 60.0% of mass 95	68549	44.9		Pass
95	Base peak, 100% relative abundance	152691	100.0		Pass
96	5.0 - 9.0% of mass 95	10624	6.96		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 150.0% of mass 95	134904	88.4		Pass
175	5.0 - 9.0% of mass 174	10440	6.84	(7.74) [a]	Pass
176	95.0 - 101.0% of mass 174	129139	84.6	(95.7) [a]	Pass
177	5.0 - 9.0% of mass 176	8438	5.53	(6.53) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
MSU915-IC915	U20298.D	06/06/14	17:09	00:27	Initial cal 0.5
MSU915-IC915	U20299.D	06/06/14	17:37	00:55	Initial cal 1
MSU915-IC915	U20300.D	06/06/14	18:04	01:22	Initial cal 2
MSU915-IC915	U20301.D	06/06/14	18:32	01:50	Initial cal 5
MSU915-IC915	U20302.D	06/06/14	18:59	02:17	Initial cal 10
MSU915-IC915	U20303.D	06/06/14	19:26	02:44	Initial cal 25
MSU915-ICC915	U20304.D	06/06/14	19:53	03:11	Initial cal 50
MSU915-IC915	U20305.D	06/06/14	20:20	03:38	Initial cal 100
MSU915-IC915	U20306.D	06/06/14	20:48	04:06	Initial cal 200
MSU915-IC915	U20307.D	06/06/14	21:15	04:33	Initial cal 400
MSU915-ICV915	U20311.D	06/06/14	23:04	06:22	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSU934-BFB
Lab File ID: U20827.D
Instrument ID: GCMSU
Injection Date: 07/03/14
Injection Time: 08:26

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	32528	25.2		Pass
75	30.0 - 60.0% of mass 95	59832	46.4		Pass
95	Base peak, 100% relative abundance	129080	100.0		Pass
96	5.0 - 9.0% of mass 95	9629	7.46		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 150.0% of mass 95	118264	91.6		Pass
175	5.0 - 9.0% of mass 174	9505	7.36	(8.04) [a]	Pass
176	95.0 - 101.0% of mass 174	117272	90.9	(99.2) [a]	Pass
177	5.0 - 9.0% of mass 176	7781	6.03	(6.64) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
MSU934-CC915	U20827.D	07/03/14	08:26	00:00	Continuing cal 50
MSU934-BS	U20829.D	07/03/14	09:20	00:54	Blank Spike
MSU934-MB	U20832.D	07/03/14	10:42	02:16	Method Blank
MC31799-4	U20833.D	07/03/14	11:09	02:43	PW3-3A-2014-06-27
MC31799-1	U20834.D	07/03/14	11:36	03:10	MW8-11D-2014-06-27
MC31799-2	U20835.D	07/03/14	12:03	03:37	MW3-3DA-2014-06-27
MC31799-3	U20836.D	07/03/14	12:30	04:04	MW3-4DA-2014-06-27
MC31799-5	U20837.D	07/03/14	12:57	04:31	PZ3-6D-2014-06-27
MC31799-6	U20838.D	07/03/14	13:24	04:58	PZ3-7D-2014-06-27
MC31799-7	U20839.D	07/03/14	13:52	05:26	PZ3-8D-2014-06-27
MC31799-8	U20840.D	07/03/14	14:19	05:53	MW5-1DA-2014-06-27
MC31799-9	U20841.D	07/03/14	14:46	06:20	MW5-5D-2014-06-27
MC31799-11	U20843.D	07/03/14	15:40	07:14	RW5-1-2014-06-27
MC31799-12	U20844.D	07/03/14	16:07	07:41	RW5-2-2014-06-27
MC31799-13	U20845.D	07/03/14	16:34	08:08	RW-5-4-2014-06-27
MC31799-14	U20846.D	07/03/14	17:02	08:36	MW8-1-2014-06-27
MC31799-15	U20847.D	07/03/14	17:29	09:03	MW8-10D-2014-06-27
MC31799-16	U20848.D	07/03/14	17:56	09:30	MW10-3-2014-06-27
MC31799-18	U20849.D	07/03/14	18:23	09:57	PW10-1-2014-06-27
MC31799-4MS	U20850.D	07/03/14	18:51	10:25	Matrix Spike
MC31799-4MSD	U20851.D	07/03/14	19:18	10:52	Matrix Spike Duplicate
MSU934-ECC915	U20852.D	07/03/14	19:46	11:20	Ending cal 50

Instrument Performance Check (BFB)

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSU936-BFB
Lab File ID: U20903.D
Instrument ID: GCMSU
Injection Date: 07/07/14
Injection Time: 09:45

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	34152	24.3		Pass
75	30.0 - 60.0% of mass 95	64248	45.8		Pass
95	Base peak, 100% relative abundance	140416	100.0		Pass
96	5.0 - 9.0% of mass 95	9722	6.92		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 150.0% of mass 95	156288	111.3		Pass
175	5.0 - 9.0% of mass 174	10213	7.27	(6.53) [a]	Pass
176	95.0 - 101.0% of mass 174	149568	106.5	(95.7) [a]	Pass
177	5.0 - 9.0% of mass 176	9774	6.96	(6.53) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
MSU936-CC915	U20903.D	07/07/14	09:45	00:00	Continuing cal 50
MSU936-BS	U20904.D	07/07/14	10:12	00:27	Blank Spike
MSU936-MB	U20907.D	07/07/14	11:35	01:50	Method Blank
MC31799-34	U20908.D	07/07/14	12:02	02:17	TB-140627
MC31799-33	U20909.D	07/07/14	12:29	02:44	PDB-BLANK-140627
ZZZZZZ	U20910.D	07/07/14	12:56	03:11	(unrelated sample)
MC31807-1	U20911.D	07/07/14	13:24	03:39	(used for QC only; not part of job MC31799)
MC31808-1	U20912.D	07/07/14	13:51	04:06	(used for QC only; not part of job MC31799)
MC31799-31	U20913.D	07/07/14	14:18	04:33	FD-140627-02
MC31799-32	U20914.D	07/07/14	14:45	05:00	SW-FD-140627
ZZZZZZ	U20915.D	07/07/14	15:13	05:28	(unrelated sample)
ZZZZZZ	U20916.D	07/07/14	15:40	05:55	(unrelated sample)
ZZZZZZ	U20917.D	07/07/14	16:07	06:22	(unrelated sample)
ZZZZZZ	U20918.D	07/07/14	16:34	06:49	(unrelated sample)
ZZZZZZ	U20919.D	07/07/14	17:01	07:16	(unrelated sample)
ZZZZZZ	U20920.D	07/07/14	17:29	07:44	(unrelated sample)
ZZZZZZ	U20921.D	07/07/14	17:55	08:10	(unrelated sample)
ZZZZZZ	U20922.D	07/07/14	18:23	08:38	(unrelated sample)
ZZZZZZ	U20923.D	07/07/14	18:50	09:05	(unrelated sample)
MC31807-1MS	U20924.D	07/07/14	19:17	09:32	Matrix Spike
MC31807-1MSD	U20925.D	07/07/14	19:45	10:00	Matrix Spike Duplicate
MC31808-1MS	U20926.D	07/07/14	20:12	10:27	Matrix Spike
MC31808-1MSD	U20927.D	07/07/14	20:39	10:54	Matrix Spike Duplicate
MSU936-ECC915	U20928.D	07/07/14	21:06	11:21	Ending cal 50

Instrument Performance Check (BFB)

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSU937-BFB
Lab File ID: U20931.D
Instrument ID: GCMSU
Injection Date: 07/08/14
Injection Time: 08:23

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	76648	26.4		Pass
75	30.0 - 60.0% of mass 95	140672	48.4		Pass
95	Base peak, 100% relative abundance	290560	100.0		Pass
96	5.0 - 9.0% of mass 95	21048	7.24		Pass
173	Less than 2.0% of mass 174	2817	0.97	(1.20) [a]	Pass
174	50.0 - 150.0% of mass 95	233792	80.5		Pass
175	5.0 - 9.0% of mass 174	18456	6.35	(7.89) [a]	Pass
176	95.0 - 101.0% of mass 174	230464	79.3	(98.6) [a]	Pass
177	5.0 - 9.0% of mass 176	16880	5.81	(7.32) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
MSU937-CC915	U20931.D	07/08/14	08:23	00:00	Continuing cal 50
MSU937-BS	U20932.D	07/08/14	08:51	00:28	Blank Spike
MSU937-MB	U20935.D	07/08/14	10:12	01:49	Method Blank
MC31799-10	U20936.D	07/08/14	10:39	02:16	MW5-6-2014-06-27
MC31799-17	U20937.D	07/08/14	11:07	02:44	MW10-7-2014-06-27
MC31799-20	U20938.D	07/08/14	11:34	03:11	PZ10-7-2014-06-27
MC31799-24	U20939.D	07/08/14	12:01	03:38	SW03-03-2014-06-27
MC31799-21	U20940.D	07/08/14	12:28	04:05	MW13-4D-2014-06-27
MC31799-22	U20941.D	07/08/14	12:55	04:32	MW13-5D-2014-06-27
MC31799-23	U20942.D	07/08/14	13:22	04:59	SW03-02-2014-06-27
MC31799-25	U20943.D	07/08/14	13:49	05:26	SW03-15-2014-06-27
MC31799-26	U20944.D	07/08/14	14:16	05:53	SW10-05-2014-06-27
MC31799-27	U20945.D	07/08/14	14:43	06:20	SW10-06-2014-06-27
MC31799-28	U20946.D	07/08/14	15:11	06:48	SW10-07-2014-06-27
MC31799-29	U20947.D	07/08/14	15:38	07:15	SW99-10-2014-06-27
MC31799-30	U20948.D	07/08/14	16:05	07:42	FD-140627-01
MC31799-19	U20949.D	07/08/14	16:32	08:09	PW10-2-2014-06-27
MC31799-9	U20950.D	07/08/14	17:00	08:37	MW5-5D-2014-06-27
MC31799-11	U20951.D	07/08/14	17:27	09:04	RW5-1-2014-06-27
MC31799-16	U20952.D	07/08/14	17:54	09:31	MW10-3-2014-06-27
MC31799-17MS	U20953.D	07/08/14	18:21	09:58	Matrix Spike
MC31799-17MSD	U20954.D	07/08/14	18:48	10:25	Matrix Spike Duplicate
MC31799-24MS	U20955.D	07/08/14	19:15	10:52	Matrix Spike
MC31799-24MSD	U20956.D	07/08/14	19:42	11:19	Matrix Spike Duplicate

Instrument Performance Check (BFB)

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample:	MSU937-BFB	**Injection Date:**	07/08/14
Lab File ID:	U20931.D	**Injection Time:**	08:23
Instrument ID:	GCMSU		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
MSU937-ECC915	U20957.D	07/08/14	20:09	11:46	Ending cal 50

Volatile Internal Standard Area Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Check Std:	MSU934-CC915	**Injection Date:**	07/03/14
Lab File ID:	U20827.D	**Injection Time:**	08:26
Instrument ID:	GCMSU	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	322439	8.98	534300	9.84	230605	13.10	352796	15.66	148159	6.59
Upper Limit [a]	644878	9.48	1068600	10.34	461210	13.60	705592	16.16	296318	7.09
Lower Limit [b]	161220	8.48	267150	9.34	115303	12.60	176398	15.16	74080	6.09

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSU934-BS	342646	8.97	579510	9.84	242202	13.10	352060	15.66	144773	6.60
MSU934-MB	329010	8.98	521168	9.85	198226	13.11	350884	15.67	145411	6.61
MC31799-4	317839	8.98	509660	9.85	198848	13.11	331296	15.67	148204	6.61
MC31799-1	337857	8.98	537787	9.85	206763	13.10	339511	15.67	139954	6.61
MC31799-2	307961	8.98	492960	9.85	192372	13.11	331420	15.67	145595	6.62
MC31799-3	316945	8.98	503037	9.85	188025	13.11	325475	15.67	149747	6.62
MC31799-5	316588	8.98	504783	9.85	189722	13.11	323131	15.67	128938	6.62
MC31799-6	326407	8.98	526311	9.85	197694	13.11	319952	15.67	138863	6.62
MC31799-7	314343	8.98	499057	9.85	189706	13.11	319769	15.67	128157	6.62
MC31799-8	313366	8.98	503042	9.85	198643	13.10	325897	15.67	131141	6.63
MC31799-9	312011	8.98	507344	9.85	190727	13.10	318003	15.67	138770	6.61
MC31799-11	336356	8.98	556122	9.84	199761	13.11	321643	15.67	125602	6.61
MC31799-12	313407	8.98	496609	9.85	191602	13.11	318095	15.67	140440	6.61
MC31799-13	291018	8.98	468235	9.85	182055	13.11	300356	15.67	119701	6.62
MC31799-14	301933	8.98	480952	9.85	178411	13.11	319631	15.67	126905	6.62
MC31799-15	307802	8.98	496550	9.85	190583	13.11	312687	15.67	131006	6.61
MC31799-16	313963	8.98	496742	9.85	184931	13.10	314564	15.67	135189	6.61
MC31799-18	303555	8.98	475742	9.85	172779	13.11	312650	15.67	139047	6.61
MC31799-4MS	300066	8.97	505816	9.84	210744	13.10	319860	15.66	138401	6.62
MC31799-4MSD	319534	8.97	537218	9.84	211368	13.10	332326	15.66	136651	6.61
MSU934-ECC915	319267	8.97	527781	9.84	220147	13.10	335038	15.66	126827	6.59

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Check Std: MSU936-CC915 **Injection Date:** 07/07/14
Lab File ID: U20903.D **Injection Time:** 09:45
Instrument ID: GCMSU **Method:** SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	792372	8.97	1287418	9.84	547116	13.10	802379	15.66	382704	6.60
Upper Limit [a]	1584744	9.47	2574836	10.34	1094232	13.60	1604758	16.16	765408	7.10
Lower Limit [b]	396186	8.47	643709	9.34	273558	12.60	401190	15.16	191352	6.10

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSU936-BS	759080	8.97	1264002	9.84	544333	13.10	786624	15.66	394884	6.61
MSU936-MB	757317	8.98	1191477	9.85	443805	13.11	730752	15.67	340318	6.62
MC31799-34	720252	8.98	1155324	9.85	428427	13.11	719788	15.67	270084	6.61
MC31799-33	702859	8.98	1046887	9.85	387242	13.11	720741	15.67	275809	6.62
ZZZZZZ	747890	8.98	1172065	9.85	434016	13.11	728289	15.67	250588	6.60
MC31807-1	696374	8.98	1111418	9.85	421025	13.10	701521	15.67	306652	6.62
MC31808-1	655659	8.98	1034698	9.85	409430	13.11	694227	15.67	293286	6.62
MC31799-31	713706	8.98	1115968	9.85	415690	13.11	708590	15.67	283689	6.59
MC31799-32	701716	8.98	1100135	9.85	425164	13.11	703385	15.67	288480	6.63
ZZZZZZ	669730	8.98	1046079	9.85	395320	13.11	679592	15.67	273549	6.60
ZZZZZZ	691401	8.98	1071583	9.85	408235	13.11	695124	15.67	274778	6.62
ZZZZZZ	672691	8.98	1065667	9.85	407672	13.11	681243	15.67	278267	6.61
ZZZZZZ	669521	8.98	1071916	9.85	418935	13.10	674443	15.67	320673	6.61
ZZZZZZ	637365	8.98	1007605	9.85	389633	13.11	677727	15.67	275222	6.61
ZZZZZZ	669836	8.98	1036434	9.85	410572	13.11	675575	15.67	287215	6.62
ZZZZZZ	669019	8.98	1065891	9.85	407536	13.11	661665	15.67	289607	6.62
ZZZZZZ	613170	8.98	949042	9.85	355207	13.11	645922	15.67	274583	6.59
ZZZZZZ	677809	8.98	1077367	9.85	406558	13.11	675117	15.67	284465	6.62
MC31807-1MS	705334	8.98	1146108	9.84	476718	13.10	706242	15.66	302143	6.62
MC31807-1MSD	703090	8.97	1156383	9.84	493711	13.10	718337	15.66	337120	6.60
MC31808-1MS	811831	8.98	1320104	9.84	539992	13.10	775428	15.66	328557	6.61
MC31808-1MSD	810764	8.98	1338577	9.84	558235	13.10	782516	15.66	346245	6.60
MSU936-ECC915	824513	8.98	1358757	9.84	501653	13.10	787738	15.66	329984	6.61

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Check Std:	MSU937-CC915	**Injection Date:**	07/08/14
Lab File ID:	U20931.D	**Injection Time:**	08:23
Instrument ID:	GCMSU	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	823307	8.98	1393410	9.84	616288	13.10	875492	15.66	342685	6.61
Upper Limit [a]	1646614	9.48	2786820	10.34	1232576	13.60	1750984	16.16	685370	7.11
Lower Limit [b]	411654	8.48	696705	9.34	308144	12.60	437746	15.16	171343	6.11

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSU937-BS	854981	8.97	1434160	9.84	616591	13.10	879835	15.66	360710	6.61
MSU937-MB	799265	8.98	1259112	9.85	492575	13.11	828323	15.67	360142	6.60
MC31799-10	812719	8.98	1275912	9.85	490683	13.11	773423	15.67	319524	6.59
MC31799-17	764041	8.98	1202673	9.85	441029	13.11	766655	15.67	317953	6.61
MC31799-20	702313	8.98	1114228	9.85	437174	13.11	737678	15.67	305945	6.61
MC31799-24	716945	8.98	1138887	9.85	427689	13.11	726747	15.67	286649	6.62
MC31799-21	709481	8.98	1118038	9.85	419656	13.10	705196	15.67	287900	6.61
MC31799-22	712050	8.98	1119526	9.85	435810	13.11	709562	15.67	277434	6.62
MC31799-23	700556	8.98	1087691	9.85	418171	13.11	692790	15.67	274798	6.62
MC31799-25	692404	8.98	1097957	9.85	400559	13.11	690340	15.67	295577	6.59
MC31799-26	655584	8.98	1026125	9.85	402240	13.11	675009	15.67	288118	6.62
MC31799-27	667419	8.98	1051238	9.85	399486	13.11	686614	15.67	280710	6.61
MC31799-28	671226	8.98	1068162	9.85	403920	13.11	683891	15.67	293217	6.61
MC31799-29	637268	8.98	985266	9.85	390227	13.11	673635	15.67	258229	6.60
MC31799-30	693793	8.98	1078266	9.85	411655	13.11	669924	15.67	290310	6.61
MC31799-19	647152	8.98	1039834	9.85	404230	13.11	668016	15.67	275837	6.61
MC31799-9	662235	8.98	1048780	9.85	401334	13.11	668720	15.67	283693	6.61
MC31799-11	639714	8.98	1000708	9.85	381332	13.11	639114	15.67	253849	6.62
MC31799-16	660304	8.98	1033848	9.85	395029	13.11	658081	15.67	257245	6.60
MC31799-17MS	638103	8.98	1039576	9.84	444939	13.10	654305	15.66	249469	6.59
MC31799-17MSD	679471	8.97	1108677	9.84	431360	13.10	682429	15.66	285260	6.61
MC31799-24MS	701351	8.98	1163284	9.84	498579	13.10	717603	15.66	273671	6.61
MC31799-24MSD	697889	8.97	1146477	9.84	496021	13.10	728650	15.66	277776	6.60
MSU937-ECC915	711199	8.98	1155939	9.84	458382	13.10	712628	15.66	279089	6.60

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC31799-1	U20834.D	122	105	104
MC31799-2	U20835.D	122	106	101
MC31799-3	U20836.D	126	105	100
MC31799-4	U20833.D	122	107	103
MC31799-5	U20837.D	124	104	100
MC31799-6	U20838.D	121	104	103
MC31799-7	U20839.D	123	105	100
MC31799-8	U20840.D	122	105	104
MC31799-9	U20950.D	123	105	101
MC31799-9	U20841.D	123	105	103
MC31799-10	U20936.D	119	105	105
MC31799-11	U20951.D	124	104	101
MC31799-11	U20843.D	119	101	103
MC31799-12	U20844.D	123	104	103
MC31799-13	U20845.D	126	106	104
MC31799-14	U20846.D	125	102	99
MC31799-15	U20847.D	122	105	103
MC31799-16	U20952.D	122	103	99
MC31799-16	U20848.D	122	101	101
MC31799-17	U20937.D	120	103	100
MC31799-18	U20849.D	123	101	97
MC31799-19	U20949.D	124	105	101
MC31799-20	U20938.D	124	106	100
MC31799-21	U20940.D	122	103	102
MC31799-22	U20941.D	121	106	103
MC31799-23	U20942.D	123	105	102
MC31799-24	U20939.D	125	102	100
MC31799-25	U20943.D	123	101	100
MC31799-26	U20944.D	124	103	101
MC31799-27	U20945.D	123	102	100
MC31799-28	U20946.D	124	104	100
MC31799-29	U20947.D	123	105	99
MC31799-30	U20948.D	121	103	103
MC31799-31	U20913.D	124	103	100
MC31799-32	U20914.D	123	102	103
MC31799-33	U20909.D	128	99	99
MC31799-34	U20908.D	122	103	101
MC31799-17MS	U20953.D	121	109	101
MC31799-17MSD	U20954.D	120	107	101
MC31799-24MS	U20955.D	122	109	102

Volatile Surrogate Recovery Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC31799-24MSD	U20956.D	122	108	104
MC31799-4MS	U20850.D	127	108	101
MC31799-4MSD	U20851.D	122	109	102
MC31807-1MS	U20924.D	119	106	103
MC31807-1MSD	U20925.D	121	106	103
MSU934-BS	U20829.D	123	111	103
MSU934-MB	U20832.D	124	102	100
MSU936-BS	U20904.D	121	110	102
MSU936-MB	U20907.D	122	103	103
MSU937-BS	U20932.D	121	111	106
MSU937-MB	U20935.D	121	105	102

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

Initial Calibration Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSU915-ICC915
Lab FileID: U20304.D

Response Factor Report MSU

Method : D:\msdchem\1\methods\U140606W.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Jun 09 11:34:35 2014
Response via : Initial Calibration

Calibration Files
0.5 =U20298.D 1 =U20299.D 2 =U20300.D 5 =U20301.D
10 =U20302.D 25 =U20303.D 50 =U20304.D 100 =U20305.D
200 =U20306.D 400 =U20307.D = =

Compound	0.5	1	2	5	10	25	50	100	200	400	Avg	%RSD
1) I tert butyl alcohol-d9 ----------ISTD----------												
2) tertiary butyl alcohol												
	0.108	0.110	0.106	0.100	0.105	0.109	0.106	0.104			0.106	2.96
3) Ethanol												
	0.026	0.020	0.018	0.015	0.014	0.015	0.014	0.016			0.017#	23.96
---- Linear regression ---- Coefficient = 0.9983												
Response Ratio = -0.04963 + 0.01554 *A												
4) I pentafluorobenzene ----------ISTD----------												
5) dichlorodifluoromethane												
	0.534	0.509	0.526	0.538	0.547	0.445	0.480	0.464			0.505	7.52
6) chloromethane												
	1.562	1.498	1.423	1.392	1.372	1.179	1.155	1.071			1.331	13.22
7) vinyl chloride												
	1.086	1.035	1.056	1.004	0.988	0.983	0.824	0.826	0.746		0.950	12.63
8) bromomethane												
	0.599	0.539	0.526	0.516	0.509	0.458	0.448	0.427			0.503	11.22
9) chloroethane												
	0.477	0.447	0.447	0.447	0.449	0.407	0.406	0.384			0.433	7.08
10) ethyl ether												
		0.543	0.537	0.512	0.524	0.485	0.476	0.467			0.506	6.00
11) acetonitrile												
		0.094	0.098	0.094	0.093	0.077	0.074	0.075			0.086	12.20
12) trichlorofluoromethane												
	1.127	1.100	1.113	1.084	1.050	1.068	0.966	0.961	0.917		1.043	7.28
13) freon-113												
		0.689	0.707	0.685	0.711	0.620	0.616	0.594			0.660	7.37
14) acrolein												
		0.094	0.097	0.095	0.092	0.084	0.084	0.081			0.090	7.16
15) 1,1-dichloroethene												
	0.603	0.639	0.648	0.600	0.576	0.571	0.493	0.488	0.473		0.566	11.66
16) acetone												
				0.135	0.153	0.145	0.140	0.144	0.131		0.141	5.57
17) Methyl Acetate												
		0.552	0.518	0.547	0.558	0.516	0.521	0.514			0.532	3.57
18) methylene chloride												
	0.739	0.675	0.646	0.603	0.635	0.539	0.536	0.524			0.612	12.46
19) methyl tert butyl ether												
	1.704	1.646	1.530	1.527	1.466	1.528	1.334	1.344	1.313		1.488	9.27
20) acrylonitrile												
		0.291	0.287	0.283	0.283	0.257	0.258	0.252			0.273	6.10
21) allyl chloride												
		1.370	1.347	1.282	1.358	1.133	1.127	1.077			1.242	10.12

Initial Calibration Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSU915-ICC915
Lab FileID: U20304.D

22) trans-1,2-dichloroethene
0.740 0.802 0.682 0.654 0.613 0.631 0.541 0.537 0.650 14.08
23) iodomethane
1.224 1.211 1.179 1.221 1.056 1.052 1.025 1.138 7.87
24) carbon disulfide
1.840 1.814 1.756 1.806 1.538 1.515 1.475 1.678 9.57
25) propionitrile
0.053 0.063 0.055 0.057 0.051 0.051 0.048 0.054 9.23
26) vinyl acetate
0.908 0.796 0.881 0.882 0.914 0.861 0.910 0.879 4.67
27) chloroprene
1.041 1.052 1.022 1.047 0.950 0.932 0.906 0.993 6.20
28) di-isopropyl ether
2.561 2.540 2.475 2.415 2.512 2.253 2.201 2.109 2.383 7.23
29) methacrylonitrile
0.369 0.367 0.342 0.351 0.348 0.351 0.354 0.355 2.86
30) 2-butanone
0.067 0.070 0.072 0.078 0.077 0.080 0.077 0.074# 6.44
31) Ethyl Acetate
2.187 2.155 2.107 2.183 2.021 1.984 1.889 2.075 5.47
32) Hexane
1.072 1.081 1.036 1.070 0.981 0.943 0.906 1.013 6.91
33) 1,1-dichloroethane
1.118 1.304 1.280 1.260 1.192 1.240 1.101 1.081 1.055 1.181 7.96
34) tert-butyl ethyl ether
2.239 2.173 2.138 2.119 2.196 1.966 1.958 1.923 2.089 5.85
35) isobutyl alcohol
0.162 0.082 0.078 0.080 0.070 0.072 0.072 0.088 37.19
---- Linear regression ---- Coefficient = 0.9997
Response Ratio = 0.02238 + 0.07131 *A

36) 2,2-dichloropropane
0.803 0.776 0.763 0.782 0.637 0.631 0.603 0.714 11.98
37) cis-1,2-dichloroethene
0.813 0.819 0.724 0.709 0.664 0.679 0.596 0.591 0.586 0.687 12.99
38) bromochloromethane
0.374 0.365 0.357 0.366 0.331 0.330 0.328 0.350 5.66
39) chloroform
1.067 1.113 1.063 1.048 1.017 1.042 0.938 0.926 0.906 1.014 7.16
40) dibromofluoromethane (s)
0.564 0.569 0.544 0.546 0.520 0.526 0.519 0.541 3.80
41) Tetrahydrofuran
0.243 0.220 0.197 0.191 0.178 0.178 0.180 0.198 12.46
42) 1,1,1-trichloroethane
0.852 1.054 0.997 0.973 0.960 0.991 0.856 0.860 0.842 0.932 8.52

43) I 1,4-difluorobenzene ----------ISTD----------
44) Cyclohexane
0.813 0.826 0.776 0.788 0.694 0.666 0.638 0.743 10.18
45) carbon tetrachloride
0.439 0.582 0.516 0.542 0.523 0.542 0.476 0.464 0.448 0.504 9.74
46) 1,1-dichloropropene
0.402 0.426 0.396 0.404 0.384 0.372 0.365 0.393 5.32
47) benzene
1.299 1.260 1.282 1.179 1.178 1.113 1.133 1.066 1.045 1.030 1.159 8.48
48) 1,2-dichloroethane
0.468 0.521 0.486 0.465 0.446 0.450 0.433 0.423 0.414 0.456 7.31
49) tert-amyl methyl ether
0.912 0.881 0.942 0.885 0.886 0.803 0.779 0.760 0.856 7.73
50) heptane

Initial Calibration Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSU915-ICC915
Lab FileID: U20304.D

```
                          0.521 0.531 0.490 0.495 0.474 0.444 0.436  0.485    7.44
51)  trichloroethene
          0.351 0.359 0.377 0.359 0.366 0.342 0.350 0.331 0.335 0.330  0.350    4.48
52)  1,2-dichloropropane
                      0.357 0.349 0.337 0.328 0.338 0.329 0.326 0.334  0.337    3.17
53)  dibromomethane
                      0.207 0.203 0.202 0.189 0.193 0.185 0.180 0.180  0.192    5.46
54)  bromodichloromethane
                0.401 0.408 0.392 0.399 0.382 0.400 0.379 0.378 0.382  0.391    2.85
55)  Methylcyclohexane
                          0.551 0.579 0.550 0.561 0.491 0.476 0.464  0.525    8.79
56)  2-chloroethyl vinyl ether
                          0.149 0.143 0.144 0.146 0.154 0.147 0.160  0.149    4.13
57)  methyl methacrylate
                          0.127 0.122 0.119 0.123 0.127 0.124 0.133  0.125    3.56
58)  1,4-dioxane
                          0.002 0.003 0.002 0.003 0.002 0.002 0.002  0.002#  18.27
             ---- Linear regression ----  Coefficient =  0.9942
               Response Ratio = -0.00064 + 0.00225 *A

59)  cis-1,3-dichloropropene
          0.323 0.409 0.412 0.410 0.396 0.383 0.406 0.403 0.392 0.411  0.394    6.82
60)  toluene-d8 (s)
                          0.980 0.973 0.943 0.948 0.929 0.945 0.957  0.954    1.87
61)  4-methyl-2-pentanone
                          0.351 0.342 0.338 0.348 0.326 0.330 0.338  0.339    2.67
62)  toluene
                0.553 0.652 0.639 0.631 0.618 0.646 0.622 0.618 0.649  0.625    4.84
63)  trans-1,3-dichloropropene
          0.231 0.284 0.312 0.329 0.313 0.304 0.318 0.318 0.307 0.328  0.305    9.49
64)  1,1,2-trichloroethane
                0.192 0.182 0.194 0.180 0.179 0.184 0.182 0.176 0.186  0.184    3.16
65)  ethyl methacrylate
                          0.271 0.251 0.258 0.265 0.257 0.237 0.262  0.258    4.22

66) I   chlorobenzene-d5      ----------------ISTD---------------------
67)  tetrachloroethene
          0.574 0.621 0.802 0.763 0.756 0.667 0.686 0.685 0.688 0.671  0.691    9.80
68)  1,3-dichloropropane
                          0.799 0.768 0.714 0.719 0.754 0.735 0.726  0.745    4.10
69)  dibromochloromethane
          0.687 0.788 0.805 0.776 0.756 0.697 0.720 0.744 0.742 0.727  0.744    5.14
70)  1,2-dibromoethane
                      0.609 0.615 0.579 0.544 0.540 0.563 0.549 0.542  0.568    5.31
71)  2-hexanone
                          0.612 0.594 0.606 0.619 0.635 0.629 0.616  0.616    2.23
72)  chlorobenzene
                1.726 1.978 1.933 1.865 1.739 1.767 1.800 1.805 1.774  1.821    4.79
73)  1,1,1,2-tetrachloroethane
                      0.994 0.966 0.936 0.869 0.885 0.850 0.867 0.827  0.899    6.57
74)  ethylbenzene
                2.825 3.217 2.993 2.998 2.796 2.801 2.755 2.756 2.654  2.866    6.00
75)  m,p-xylene
          1.199 1.141 1.290 1.262 1.263 1.171 1.192 1.185 1.190 1.145  1.204    4.26
76)  o-xylene
          1.292 1.342 1.520 1.428 1.397 1.336 1.329 1.294 1.309 1.254  1.350    5.80
77)  styrene
                          1.969 1.944 1.780 1.830 1.842 1.866 1.865  1.871    3.50
78)  bromoform
                0.566 0.543 0.513 0.521 0.487 0.501 0.507 0.509 0.507  0.517    4.61
```

Initial Calibration Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSU915-ICC915
Lab FileID: U20304.D

```
 79)  trans-1,4-dichloro-2-butene
                             0.263 0.238 0.243 0.241 0.241 0.244 0.239  0.244    3.53

 80) I   1,4-dichlorobenzene-d ----------------ISTD---------------------
 81)  isopropylbenzene
                             2.410 2.463 2.375 2.482 2.425 2.441 2.362  2.423    1.81
 82)  bromofluorobenzene (s)
                             0.639 0.636 0.602 0.597 0.631 0.641 0.686  0.633    4.64
 83)  bromobenzene
                             0.631 0.628 0.618 0.643 0.657 0.648 0.686  0.644    3.53
 84)  1,1,2,2-tetrachloroethane
           0.520 0.476 0.517 0.503 0.489 0.472 0.483 0.492 0.470 0.489  0.491    3.57
 85)  1,2,3-trichloropropane
                             0.576 0.578 0.550 0.571 0.568 0.565 0.591  0.571    2.20
 86)  n-propylbenzene
                             2.685 2.690 2.601 2.673 2.624 2.607 2.516  2.628    2.35
 87)  2-chlorotoluene
                             1.711 1.704 1.639 1.687 1.656 1.663 1.679  1.677    1.55
 88)  4-chlorotoluene
                             1.736 1.686 1.593 1.679 1.687 1.678 1.736  1.685    2.85
 89)  1,3,5-trimethylbenzene
                  2.128 2.473 2.391 2.464 2.334 2.477 2.429 2.453 2.310  2.384    4.76
 90)  tert-butylbenzene
                             1.217 1.264 1.241 1.330 1.332 1.377 1.336  1.300    4.51
 91)  1,2,4-trimethylbenzene
                  2.277 2.599 2.424 2.444 2.377 2.496 2.424 2.409 2.285  2.415    4.11
 92)  sec-butylbenzene
                             3.033 3.098 3.013 3.173 3.062 3.075 2.727  3.026    4.67
 93)  1,3-dichlorobenzene
                  1.414 1.457 1.443 1.418 1.389 1.450 1.413 1.397 1.416  1.422    1.63
 94)  p-isopropyltoluene
                             2.753 2.841 2.703 2.857 2.779 2.733 2.418  2.726    5.38
 95)  1,4-dichlorobenzene
                  1.504 1.673 1.551 1.510 1.458 1.501 1.467 1.432 1.346  1.494    5.95
 96)  1,2-dichlorobenzene
                  1.511 1.703 1.579 1.574 1.516 1.564 1.508 1.488 1.438  1.542    4.88
 97)  n-butylbenzene
                             2.520 2.502 2.378 2.460 2.341 2.299 2.129  2.376    5.75
 98)  1,2-dibromo-3-chloropropane
                             0.184 0.175 0.158 0.154 0.147 0.149 0.140  0.158   10.07
 99)  1,3,5-trichlorobenzene
                             1.242 1.279 1.227 1.250 1.189 1.145 1.042  1.196    6.76
100)  1,2,4-trichlorobenzene
                             1.174 1.195 1.129 1.176 1.135 1.095 0.990  1.128    6.18
101)  hexachlorobutadiene
                             0.581 0.584 0.537 0.527 0.506 0.477 0.432  0.521   10.50
102)  naphthalene
                  3.196 3.109 2.965 2.972 2.872 2.955 2.848 2.801 2.425  2.905    7.53
103)  2-Methylnaphthalene
                                   1.510 1.452 1.487 1.556 1.442 1.002  1.408   14.43
104)  1-Methylnaphthalene
                                   1.225 1.129 1.143 1.210 1.073        1.156    5.39
105)  1,2,3-trichlorobenzene
                             1.081 1.090 1.036 1.059 1.034 1.002 0.896  1.028    6.38
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          U140606W.m        Mon Jun 09 11:41:03 2014
```

Initial Calibration Verification

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSU915-ICV915
Lab FileID: U20311.D

Evaluate Continuing Calibration Report

Data File : D:\msdchem\1\data\U140606\U20311.D Vial: 26
Acq On : 6 Jun 2014 11:04 pm Operator: garyk
Sample : icv915-50 Inst : MSU
Misc : ms31928,msu915,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\msdchem\1\methods\U140606W.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Jun 09 11:51:52 2014
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	tert butyl alcohol-d9	1.000	1.000	0.0	101	0.00	6.60
2	P	tertiary butyl alcohol	0.106	0.102	3.8	98	0.00	6.29
			Amount	Calc.	%Drift			
3	P	Ethanol	5000.000	4563.494	8.7	101	0.02	5.59
			AvgRF	CCRF	%Dev			
4	I	pentafluorobenzene	1.000	1.000	0.0	103	0.00	8.97
5	P	dichlorodifluoromethane	0.505	0.707	-40.0#	133	0.00	4.32
6	P	chloromethane	1.331	1.594	-19.8	119	0.00	4.54
7	P	vinyl chloride	0.950	1.128	-18.7	118	0.00	4.80
8	P	bromomethane	0.503	0.570	-13.3	115	0.00	5.27
9	P	chloroethane	0.433	0.491	-13.4	112	0.00	5.42
10	P	ethyl ether	0.506	0.501	1.0	98	0.00	6.29
11	P	acetonitrile	0.086	0.102	-18.6	112	0.00	6.09
12	P	trichlorofluoromethane	1.043	1.107	-6.1	106	0.00	6.07
13	P	freon-113	0.660	0.665	-0.8	96	0.00	6.83
14	P	acrolein	0.090	0.079	12.2	89	0.00	6.06
15	P	1,1-dichloroethene	0.566	0.570	-0.7	103	0.00	6.63
16	P	acetone	0.141	0.132	6.4	94	0.01	6.19
17	P	Methyl Acetate	0.532	0.534	-0.4	98	0.00	6.82
18	P	methylene chloride	0.612	0.623	-1.8	101	0.00	6.78
19	P	methyl tert butyl ether	1.488	1.481	0.5	100	0.00	7.57
20	P	acrylonitrile	0.273	0.266	2.6	97	0.00	6.70
21	P	allyl chloride	1.242	1.289	-3.8	98	0.00	6.88
22	P	trans-1,2-dichloroethene	0.650	0.638	1.8	104	0.00	7.47
23	P	iodomethane	1.138	1.118	1.8	94	0.00	6.69
24	P	carbon disulfide	1.678	1.642	2.1	93	0.00	7.05
25	P	propionitrile	0.054	0.052	3.7	94	0.00	8.08
26	P	vinyl acetate	0.879	0.750	14.7	87	0.00	7.82
27	P	chloroprene	0.993	0.963	3.0	94	0.00	8.08
28	P	di-isopropyl ether	2.383	2.416	-1.4	99	0.00	8.12
29	P	methacrylonitrile	0.355	0.329	7.3	96	0.00	8.24
30	P	2-butanone	0.074	0.073#	1.4	97	0.00	8.13
31	P	Ethyl Acetate	2.075	2.031	2.1	96	0.00	8.12
32	P	Hexane	1.013	0.954	5.8	92	0.00	8.11
33	P	1,1-dichloroethane	1.181	1.202	-1.8	100	0.00	7.72
34	P	tert-butyl ethyl ether	2.089	2.148	-2.8	100	0.00	8.52
			Amount	Calc.	%Drift			
35	P	isobutyl alcohol	250.000	252.738	-1.1	99	0.00	8.54

Initial Calibration Verification

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSU915-ICV915
Lab FileID: U20311.D

			AvgRF	CCRF	%Dev			
36	P	2,2-dichloropropane	0.714	0.701	1.8	92	0.00	8.58
37	P	cis-1,2-dichloroethene	0.687	0.659	4.1	100	0.00	8.29
38	P	bromochloromethane	0.350	0.353	-0.9	99	0.00	8.45
39	P	chloroform	1.014	0.981	3.3	97	0.00	8.49
40	S	dibromofluoromethane (s)	0.541	0.556	-2.8	105	0.00	8.61
41	P	Tetrahydrofuran	0.198	0.176	11.1	95	0.00	8.84
42	P	1,1,1-trichloroethane	0.932	0.942	-1.1	98	0.00	9.24
43	I	1,4-difluorobenzene	1.000	1.000	0.0	105	0.00	9.84
44	P	Cyclohexane	0.743	0.725	2.4	96	0.00	9.53
45	P	carbon tetrachloride	0.504	0.500	0.8	97	0.00	9.61
46	P	1,1-dichloropropene	0.393	0.364	7.4	94	0.00	9.42
47	P	benzene	1.159	1.073	7.4	99	0.00	9.64
48	P	1,2-dichloroethane	0.456	0.417	8.6	97	0.00	9.14
49	P	tert-amyl methyl ether	0.856	0.857	-0.1	101	0.00	9.76
50	P	heptane	0.485	0.427	12.0	90	0.00	10.12
51	P	trichloroethene	0.350	0.335	4.3	100	0.00	10.26
52	P	1,2-dichloropropane	0.337	0.322	4.5	100	0.00	10.23
53	P	dibromomethane	0.192	0.186	3.1	101	0.00	10.20
54	P	bromodichloromethane	0.391	0.391	0.0	103	0.00	10.32
55	P	Methylcyclohexane	0.525	0.517	1.5	97	0.00	10.78
56	P	2-chloroethyl vinyl ether	0.149	0.155	-4.0	112	0.00	10.70
57	P	methyl methacrylate	0.125	0.118	5.6	100	0.00	10.42

			Amount	Calc.	%Drift			
58	P	1,4-dioxane	250.000	321.221	-28.5#	113	0.00	10.45

			AvgRF	CCRF	%Dev			
59	P	cis-1,3-dichloropropene	0.394	0.391	0.8	101	0.00	10.94
60	S	toluene-d8 (s)	0.954	0.970	-1.7	107	0.00	11.64
61	P	4-methyl-2-pentanone	0.339	0.326	3.8	98	0.00	11.04
62	P	toluene	0.625	0.644	-3.0	104	0.00	11.71
63	P	trans-1,3-dichloropropene	0.305	0.342	-12.1	113	0.00	11.36
64	P	1,1,2-trichloroethane	0.184	0.182	1.1	104	0.00	11.53
65	P	ethyl methacrylate	0.258	0.257	0.4	102	0.00	11.74
66	I	chlorobenzene-d5	1.000	1.000	0.0	107	0.00	13.10
67	P	tetrachloroethene	0.691	0.627	9.3	98	0.00	12.46
68	P	1,3-dichloropropane	0.745	0.700	6.0	104	0.00	11.76
69	P	dibromochloromethane	0.744	0.718	3.5	107	0.00	12.06
70	P	1,2-dibromoethane	0.568	0.523	7.9	104	0.00	12.31
71	P	2-hexanone	0.616	0.643	-4.4	112	0.00	11.91
72	P	chlorobenzene	1.821	1.736	4.7	105	0.00	13.13
73	P	1,1,1,2-tetrachloroethane	0.899	0.866	3.7	105	0.00	13.05
74	P	ethylbenzene	2.866	2.751	4.0	105	0.00	13.31
75	P	m,p-xylene	1.204	1.166	3.2	105	0.00	13.49
76	P	o-xylene	1.350	1.305	3.3	105	0.00	13.91
77	P	styrene	1.871	1.826	2.4	107	0.00	13.83
78	P	bromoform	0.517	0.489	5.4	105	0.00	13.66
79	P	trans-1,4-dichloro-2-bute	0.244	0.235	3.7	105	0.00	14.06
80	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	107	0.00	15.66
81	P	isopropylbenzene	2.423	2.479	-2.3	107	0.00	14.27
82	S	bromofluorobenzene (s)	0.633	0.626	1.1	112	0.00	14.33
83	P	bromobenzene	0.644	0.639	0.8	106	0.00	14.56
84	P	1,1,2,2-tetrachloroethane	0.491	0.478	2.6	106	0.00	13.91
85	P	1,2,3-trichloropropane	0.571	0.550	3.7	103	0.00	14.06
86	P	n-propylbenzene	2.628	2.526	3.9	101	0.00	14.72

Initial Calibration Verification

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSU915-ICV915
Lab FileID: U20311.D

87	P	2-chlorotoluene	1.677	1.659	1.1	105	0.00	14.83
88	P	4-chlorotoluene	1.685	1.648	2.2	105	0.00	14.91
89	P	1,3,5-trimethylbenzene	2.384	2.352	1.3	102	0.00	14.99
90	P	tert-butylbenzene	1.300	1.263	2.8	102	0.00	15.30
91	P	1,2,4-trimethylbenzene	2.415	2.353	2.6	101	0.00	15.40
92	P	sec-butylbenzene	3.026	3.059	-1.1	103	0.00	15.52
93	P	1,3-dichlorobenzene	1.422	1.432	-0.7	106	0.00	15.62
94	P	p-isopropyltoluene	2.726	2.712	0.5	102	0.00	15.70
95	P	1,4-dichlorobenzene	1.494	1.471	1.5	105	0.00	15.69
96	P	1,2-dichlorobenzene	1.542	1.537	0.3	105	0.00	16.06
97	P	n-butylbenzene	2.376	2.303	3.1	100	0.00	16.11
98	P	1,2-dibromo-3-chloropropa	0.158	0.137	13.3	95	0.00	16.55
99	P	1,3,5-trichlorobenzene	1.196	1.142	4.5	98	0.00	17.35
100	P	1,2,4-trichlorobenzene	1.128	1.146	-1.6	104	0.00	17.89
101	P	hexachlorobutadiene	0.521	0.518	0.6	105	0.00	18.18
102	P	naphthalene	2.905	2.842	2.2	103	0.00	18.16
103	P	2-Methylnaphthalene	1.408	1.532	-8.8	110	0.00	19.53
104	P	1-Methylnaphthalene	1.156	1.243	-7.5	116	0.00	19.78
105	P	1,2,3-trichlorobenzene	1.028	1.044	-1.6	106	0.00	18.37

(#) = Out of Range SPCC's out = 1 CCC's out = 0
U20304.D U140606W.m Mon Jun 09 11:59:51 2014

Continuing Calibration Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSU934-CC915
Lab FileID: U20827.D

Evaluate Continuing Calibration Report

Data File : D:\msdchem\1\data\U140703\U20827.D Vial: 2
Acq On : 3 Jul 2014 8:26 am Operator: GaryK
Sample : cc915-50 Inst : MSU
Misc : ms32206,msu934,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\msdchem\1\methods\U140606W.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Jun 09 11:51:52 2014
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	tert butyl alcohol-d9	1.000	1.000	0.0	60	0.00	6.59
2	P	tertiary butyl alcohol	0.106	0.105	0.9	60	0.00	6.29
			Amount	Calc.	%Drift			
3	P	Ethanol	5000.000	5654.214	-13.1	73	0.03	5.59
			AvgRF	CCRF	%Dev			
4	I	pentafluorobenzene	1.000	1.000	0.0	64	0.00	8.98
5	P	dichlorodifluoromethane	0.505	0.588	-16.4	69	0.02	4.34
6	P	chloromethane	1.331	1.326	0.4	62	0.00	4.55
7	P	vinyl chloride	0.950	0.876	7.8	57	0.00	4.80
8	P	bromomethane	0.503	0.509	-1.2	64	0.01	5.28
9	P	chloroethane	0.433	0.417	3.7	60	0.00	5.42
10	P	ethyl ether	0.506	0.485	4.2	60	0.00	6.29
11	P	acetonitrile	0.086	0.083	3.5	57	-0.01	6.07
12	P	trichlorofluoromethane	1.043	1.003	3.8	61	0.00	6.07
13	P	freon-113	0.660	0.666	-0.9	60	0.00	6.83
14	P	acrolein	0.090	0.002#	97.8#	2#	0.01	6.07
15	P	1,1-dichloroethene	0.566	0.544	3.9	61	0.00	6.63
16	P	acetone	0.141	0.148	-5.0	66	0.03	6.20
17	P	Methyl Acetate	0.532	0.532	0.0	61	0.00	6.82
18	P	methylene chloride	0.612	0.602	1.6	61	0.00	6.78
19	P	methyl tert butyl ether	1.488	1.230	17.3	52	0.00	7.56
20	P	acrylonitrile	0.273	0.264	3.3	60	0.00	6.70
21	P	allyl chloride	1.242	1.236	0.5	59	0.00	6.88
22	P	trans-1,2-dichloroethene	0.650	0.602	7.4	61	0.00	7.47
23	P	iodomethane	1.138	1.161	-2.0	61	0.00	6.69
24	P	carbon disulfide	1.678	1.643	2.1	59	0.00	7.05
25	P	propionitrile	0.054	0.057	-5.6	64	0.00	8.08
26	P	vinyl acetate	0.879	1.089	-23.9#	80	0.00	7.82
27	P	chloroprene	0.993	0.954	3.9	59	0.00	8.08
28	P	di-isopropyl ether	2.383	2.479	-4.0	64	0.00	8.12
29	P	methacrylonitrile	0.355	0.338	4.8	62	0.00	8.24
30	P	2-butanone	0.074	0.068#	8.1	57	0.00	8.14
31	P	Ethyl Acetate	2.075	2.103	-1.3	62	0.00	8.12
32	P	Hexane	1.013	0.995	1.8	60	0.00	8.11
33	P	1,1-dichloroethane	1.181	1.173	0.7	61	0.00	7.72
34	P	tert-butyl ethyl ether	2.089	1.658	20.6#	49#	0.00	8.52
			Amount	Calc.	%Drift			
35	P	isobutyl alcohol	250.000	238.895	4.4	59	0.00	8.55

Continuing Calibration Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSU934-CC915
Lab FileID: U20827.D

			AvgRF	CCRF	%Dev			
36	P	2,2-dichloropropane	0.714	0.650	9.0	54	0.00	8.58
37	P	cis-1,2-dichloroethene	0.687	0.658	4.2	63	0.00	8.29
38	P	bromochloromethane	0.350	0.363	-3.7	64	0.00	8.45
39	P	chloroform	1.014	0.995	1.9	62	0.00	8.49
40	S	dibromofluoromethane (s)	0.541	0.673	-24.4#	79	0.00	8.61
41	P	Tetrahydrofuran	0.198	0.192	3.0	65	0.00	8.83
42	P	1,1,1-trichloroethane	0.932	0.919	1.4	60	0.00	9.24
43	I	1,4-difluorobenzene	1.000	1.000	0.0	62	0.00	9.84
44	P	Cyclohexane	0.743	0.754	-1.5	59	0.00	9.53
45	P	carbon tetrachloride	0.504	0.520	-3.2	59	0.00	9.61
46	P	1,1-dichloropropene	0.393	0.377	4.1	57	0.00	9.42
47	P	benzene	1.159	1.061	8.5	58	0.00	9.64
48	P	1,2-dichloroethane	0.456	0.430	5.7	59	0.00	9.14
49	P	tert-amyl methyl ether	0.856	0.708	17.3	49#	0.00	9.76
50	P	heptane	0.485	0.498	-2.7	62	0.00	10.12
51	P	trichloroethene	0.350	0.317	9.4	56	0.00	10.26
52	P	1,2-dichloropropane	0.337	0.320	5.0	58	0.00	10.23
53	P	dibromomethane	0.192	0.190	1.0	61	0.00	10.20
54	P	bromodichloromethane	0.391	0.384	1.8	59	0.00	10.32
55	P	Methylcyclohexane	0.525	0.523	0.4	58	0.00	10.78
56	P	2-chloroethyl vinyl ether	0.149	0.105	29.5#	45#	0.00	10.70
57	P	methyl methacrylate	0.125	0.107	14.4	54	0.00	10.42
			Amount	Calc.	%Drift			
58	P	1,4-dioxane	250.000	257.366	-2.9	53	0.00	10.45
			AvgRF	CCRF	%Dev			
59	P	cis-1,3-dichloropropene	0.394	0.341	13.5	52	0.00	10.94
60	S	toluene-d8 (s)	0.954	1.052	-10.3	68	0.00	11.64
61	P	4-methyl-2-pentanone	0.339	0.361	-6.5	64	0.00	11.05
62	P	toluene	0.625	0.569	9.0	54	0.00	11.71
63	P	trans-1,3-dichloropropene	0.305	0.255	16.4	49#	0.00	11.36
64	P	1,1,2-trichloroethane	0.184	0.167	9.2	56	0.00	11.53
65	P	ethyl methacrylate	0.258	0.223	13.6	52	0.00	11.74
66	I	chlorobenzene-d5	1.000	1.000	0.0	56	0.00	13.10
67	P	tetrachloroethene	0.691	0.670	3.0	55	0.00	12.45
68	P	1,3-dichloropropane	0.745	0.672	9.8	53	0.00	11.77
69	P	dibromochloromethane	0.744	0.733	1.5	58	0.00	12.06
70	P	1,2-dibromoethane	0.568	0.535	5.8	56	0.00	12.31
71	P	2-hexanone	0.616	0.705	-14.4	64	0.01	11.92
72	P	chlorobenzene	1.821	1.728	5.1	55	0.00	13.13
73	P	1,1,1,2-tetrachloroethane	0.899	0.950	-5.7	61	0.00	13.05
74	P	ethylbenzene	2.866	2.717	5.2	55	0.00	13.31
75	P	m,p-xylene	1.204	1.142	5.1	54	0.00	13.49
76	P	o-xylene	1.350	1.331	1.4	57	0.00	13.91
77	P	styrene	1.871	1.749	6.5	54	0.00	13.84
78	P	bromoform	0.517	0.490	5.2	55	0.00	13.66
79	P	trans-1,4-dichloro-2-bute	0.244	0.089	63.5#	21#	0.00	14.06
80	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	60	0.00	15.66
81	P	isopropylbenzene	2.423	2.321	4.2	56	0.00	14.27
82	S	bromofluorobenzene (s)	0.633	0.647	-2.2	65	0.00	14.33
83	P	bromobenzene	0.644	0.607	5.7	57	0.00	14.56
84	P	1,1,2,2-tetrachloroethane	0.491	0.519	-5.7	65	0.00	13.91
85	P	1,2,3-trichloropropane	0.571	0.430	24.7#	45#	0.00	14.06
86	P	n-propylbenzene	2.628	2.470	6.0	56	0.00	14.72

Continuing Calibration Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSU934-CC915
Lab FileID: U20827.D

87	P	2-chlorotoluene	1.677	1.567	6.6	56	0.00	14.83
88	P	4-chlorotoluene	1.685	1.517	10.0	54	0.00	14.91
89	P	1,3,5-trimethylbenzene	2.384	2.290	3.9	56	0.00	14.99
90	P	tert-butylbenzene	1.300	1.231	5.3	56	0.00	15.30
91	P	1,2,4-trimethylbenzene	2.415	2.302	4.7	55	0.00	15.40
92	P	sec-butylbenzene	3.026	2.996	1.0	57	0.00	15.52
93	P	1,3-dichlorobenzene	1.422	1.347	5.3	56	0.00	15.62
94	P	p-isopropyltoluene	2.726	2.669	2.1	56	0.00	15.70
95	P	1,4-dichlorobenzene	1.494	1.375	8.0	55	0.00	15.69
96	P	1,2-dichlorobenzene	1.542	1.506	2.3	58	0.00	16.06
97	P	n-butylbenzene	2.376	2.339	1.6	57	0.00	16.11
98	P	1,2-dibromo-3-chloropropa	0.158	0.142	10.1	55	0.00	16.54
99	P	1,3,5-trichlorobenzene	1.196	1.256	-5.0	60	0.00	17.35
100	P	1,2,4-trichlorobenzene	1.128	1.213	-7.5	62	0.00	17.89
101	P	hexachlorobutadiene	0.521	0.552	-6.0	63	0.00	18.18
102	P	naphthalene	2.905	2.945	-1.4	60	0.00	18.16
103	P	2-Methylnaphthalene	1.408	1.349	4.2	55	0.00	19.53
104	P	1-Methylnaphthalene	1.156	1.073	7.2	56	0.00	19.77
105	P	1,2,3-trichlorobenzene	1.028	1.087	-5.7	62	0.00	18.37

(#) = Out of Range SPCC's out = 2 CCC's out = 0
U20304.D U140606W.m Thu Jul 03 11:24:25 2014

Continuing Calibration Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSU934-ECC915
Lab FileID: U20852.D

Evaluate Continuing Calibration Report

Data File : D:\msdchem\1\data\U140703\U20852.D Vial: 27
Acq On : 3 Jul 2014 7:46 pm Operator: GaryK
Sample : ecc915-50 Inst : MSU
Misc : ms32217,msu934,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\msdchem\1\methods\U140606W.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Jun 09 11:51:52 2014
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	tert butyl alcohol-d9	1.000	1.000	0.0	51	0.00	6.59
2	P	tertiary butyl alcohol	0.106	0.124	-17.0	60	0.00	6.29
			Amount	Calc.	%Drift			
3	P	Ethanol	5000.000	6569.402	-31.4#	72	0.00	5.57
			AvgRF	CCRF	%Dev			
4	I	pentafluorobenzene	1.000	1.000	0.0	64	0.00	8.97
5	P	dichlorodifluoromethane	0.505	0.581	-15.0	68	0.03	4.35
6	P	chloromethane	1.331	1.429	-7.4	66	0.00	4.55
7	P	vinyl chloride	0.950	0.938	1.3	61	0.00	4.81
8	P	bromomethane	0.503	0.536	-6.6	67	0.01	5.28
9	P	chloroethane	0.433	0.446	-3.0	63	0.00	5.42
10	P	ethyl ether	0.506	0.493	2.6	60	0.00	6.29
11	P	acetonitrile	0.086	0.072	16.3	49#	-0.02	6.07
12	P	trichlorofluoromethane	1.043	1.083	-3.8	65	0.00	6.07
13	P	freon-113	0.660	0.653	1.1	59	0.00	6.83
14	P	acrolein	0.090	0.002#	97.8#	1#	0.00	6.07
15	P	1,1-dichloroethene	0.566	0.512	9.5	57	0.00	6.63
16	P	acetone	0.141	0.078#	44.7#	34#	0.03	6.21
17	P	Methyl Acetate	0.532	0.531	0.2	61	0.00	6.82
18	P	methylene chloride	0.612	0.591	3.4	59	0.00	6.78
19	P	methyl tert butyl ether	1.488	1.163	21.8#	49#	0.00	7.56
20	P	acrylonitrile	0.273	0.263	3.7	59	0.00	6.70
21	P	allyl chloride	1.242	1.047	15.7	49#	0.00	6.87
22	P	trans-1,2-dichloroethene	0.650	0.595	8.5	60	0.00	7.47
23	P	iodomethane	1.138	1.141	-0.3	60	0.00	6.69
24	P	carbon disulfide	1.678	1.580	5.8	56	0.00	7.06
25	P	propionitrile	0.054	0.050#	7.4	55	0.00	8.08
26	P	vinyl acetate	0.879	1.039	-18.2	75	0.00	7.82
27	P	chloroprene	0.993	0.941	5.2	57	0.00	8.08
28	P	di-isopropyl ether	2.383	2.473	-3.8	63	0.00	8.12
29	P	methacrylonitrile	0.355	0.347	2.3	63	0.00	8.24
30	P	2-butanone	0.074	0.046#	37.8#	37#	0.00	8.13
31	P	Ethyl Acetate	2.075	1.947	6.2	57	0.00	8.12
32	P	Hexane	1.013	1.001	1.2	60	0.00	8.11
33	P	1,1-dichloroethane	1.181	1.159	1.9	60	0.00	7.72
34	P	tert-butyl ethyl ether	2.089	1.546	26.0#	45#	0.00	8.52
			Amount	Calc.	%Drift			
35	P	isobutyl alcohol	250.000	221.740	11.3	54	0.00	8.54

Continuing Calibration Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSU934-ECC915
Lab FileID: U20852.D

			AvgRF	CCRF	%Dev			
36	P	2,2-dichloropropane	0.714	0.642	10.1	52	0.00	8.58
37	P	cis-1,2-dichloroethene	0.687	0.646	6.0	61	0.00	8.29
38	P	bromochloromethane	0.350	0.357	-2.0	62	0.00	8.45
39	P	chloroform	1.014	0.982	3.2	60	0.00	8.49
40	S	dibromofluoromethane (s)	0.541	0.659	-21.8#	77	0.00	8.61
41	P	Tetrahydrofuran	0.198	0.189	4.5	63	0.00	8.84
42	P	1,1,1-trichloroethane	0.932	0.929	0.3	60	0.00	9.24
43	I	1,4-difluorobenzene	1.000	1.000	0.0	61	0.00	9.84
44	P	Cyclohexane	0.743	0.736	0.9	57	0.00	9.53
45	P	carbon tetrachloride	0.504	0.485	3.8	54	0.00	9.61
46	P	1,1-dichloropropene	0.393	0.374	4.8	56	0.00	9.42
47	P	benzene	1.159	1.056	8.9	57	0.00	9.64
48	P	1,2-dichloroethane	0.456	0.448	1.8	61	0.00	9.14
49	P	tert-amyl methyl ether	0.856	0.654	23.6#	45#	0.00	9.76
50	P	heptane	0.485	0.499	-2.9	61	0.00	10.12
51	P	trichloroethene	0.350	0.320	8.6	56	0.00	10.26
52	P	1,2-dichloropropane	0.337	0.333	1.2	60	0.00	10.23
53	P	dibromomethane	0.192	0.192	0.0	61	0.00	10.20
54	P	bromodichloromethane	0.391	0.378	3.3	58	0.00	10.32
55	P	Methylcyclohexane	0.525	0.517	1.5	56	0.00	10.78
56	P	2-chloroethyl vinyl ether	0.149	0.118	20.8#	49#	0.00	10.70
57	P	methyl methacrylate	0.125	0.116	7.2	57	0.00	10.42
			Amount	Calc.	%Drift			
58	P	1,4-dioxane	250.000	268.343	-7.3	54	0.00	10.45
			AvgRF	CCRF	%Dev			
59	P	cis-1,3-dichloropropene	0.394	0.333	15.5	50	0.00	10.94
60	S	toluene-d8 (s)	0.954	1.060	-11.1	68	0.00	11.64
61	P	4-methyl-2-pentanone	0.339	0.345	-1.8	60	0.00	11.04
62	P	toluene	0.625	0.586	6.2	55	0.00	11.71
63	P	trans-1,3-dichloropropene	0.305	0.248	18.7	48#	0.00	11.36
64	P	1,1,2-trichloroethane	0.184	0.179	2.7	59	0.00	11.53
65	P	ethyl methacrylate	0.258	0.236	8.5	54	0.00	11.74
66	I	chlorobenzene-d5	1.000	1.000	0.0	54	0.00	13.10
67	P	tetrachloroethene	0.691	0.725	-4.9	57	0.00	12.45
68	P	1,3-dichloropropane	0.745	0.733	1.6	55	0.00	11.76
69	P	dibromochloromethane	0.744	0.709	4.7	53	0.00	12.05
70	P	1,2-dibromoethane	0.568	0.586	-3.2	58	0.00	12.31
71	P	2-hexanone	0.616	0.499	19.0	43#	0.01	11.92
72	P	chlorobenzene	1.821	1.846	-1.4	56	0.00	13.13
73	P	1,1,1,2-tetrachloroethane	0.899	0.958	-6.6	58	0.00	13.05
74	P	ethylbenzene	2.866	2.819	1.6	54	0.00	13.31
75	P	m,p-xylene	1.204	1.197	0.6	54	0.00	13.49
76	P	o-xylene	1.350	1.360	-0.7	55	0.00	13.91
77	P	styrene	1.871	1.830	2.2	54	0.00	13.83
78	P	bromoform	0.517	0.428	17.2	46#	0.00	13.66
79	P	trans-1,4-dichloro-2-bute	0.244	0.016#	93.4#	4#	0.00	14.07
80	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	57	0.00	15.66
81	P	isopropylbenzene	2.423	2.396	1.1	55	0.00	14.27
82	S	bromofluorobenzene (s)	0.633	0.664	-4.9	63	0.00	14.33
83	P	bromobenzene	0.644	0.647	-0.5	57	0.00	14.56
84	P	1,1,2,2-tetrachloroethane	0.491	0.530	-7.9	63	0.00	13.91
85	P	1,2,3-trichloropropane	0.571	0.389	31.9#	39#	0.00	14.06
86	P	n-propylbenzene	2.628	2.544	3.2	54	0.00	14.72

Continuing Calibration Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSU934-ECC915
Lab FileID: U20852.D

87	P	2-chlorotoluene	1.677	1.626	3.0	55	0.00	14.83
88	P	4-chlorotoluene	1.685	1.594	5.4	54	0.00	14.91
89	P	1,3,5-trimethylbenzene	2.384	2.392	-0.3	55	0.00	14.99
90	P	tert-butylbenzene	1.300	1.309	-0.7	56	0.00	15.30
91	P	1,2,4-trimethylbenzene	2.415	2.398	0.7	55	0.00	15.40
92	P	sec-butylbenzene	3.026	3.108	-2.7	56	0.00	15.52
93	P	1,3-dichlorobenzene	1.422	1.410	0.8	56	0.00	15.62
94	P	p-isopropyltoluene	2.726	2.766	-1.5	55	0.00	15.69
95	P	1,4-dichlorobenzene	1.494	1.438	3.7	55	0.00	15.69
96	P	1,2-dichlorobenzene	1.542	1.590	-3.1	58	0.00	16.06
97	P	n-butylbenzene	2.376	2.387	-0.5	55	0.00	16.11
98	P	1,2-dibromo-3-chloropropa	0.158	0.149	5.7	55	0.00	16.54
99	P	1,3,5-trichlorobenzene	1.196	1.345	-12.5	61	0.00	17.35
100	P	1,2,4-trichlorobenzene	1.128	1.336	-18.4	65	0.00	17.89
101	P	hexachlorobutadiene	0.521	0.613	-17.7	66	0.00	18.18
102	P	naphthalene	2.905	3.298	-13.5	64	0.00	18.16
103	P	2-Methylnaphthalene	1.408	1.866	-32.5#	72	0.00	19.52
104	P	1-Methylnaphthalene	1.156	1.562	-35.1#	78	0.00	19.77
105	P	1,2,3-trichlorobenzene	1.028	1.247	-21.3#	67	0.00	18.36

(#) = Out of Range SPCC's out = 5 CCC's out = 0
U20304.D U140606W.m Sat Jul 05 09:29:30 2014

Continuing Calibration Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSU936-CC915
Lab FileID: U20903.D

Evaluate Continuing Calibration Report

Data File : D:\msdchem\1\data\U140707\U20903.D Vial: 3
Acq On : 7 Jul 2014 9:45 am Operator: GaryK
Sample : cc915-50 Inst : MSU
Misc : ms32230,msu936,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\msdchem\1\methods\U140606W.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Jun 09 11:51:52 2014
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	tert butyl alcohol-d9	1.000	1.000	0.0	154	0.00	6.60
2	P	tertiary butyl alcohol	0.106	0.101	4.7	148	0.00	6.29
			Amount	Calc.	%Drift			
3	P	Ethanol	5000.000	7177.662	-43.6#	238	0.02	5.59
			AvgRF	CCRF	%Dev			
4	I	pentafluorobenzene	1.000	1.000	0.0	158	0.00	8.97
5	P	dichlorodifluoromethane	0.505	0.719	-42.4#	208#	0.04	4.36
6	P	chloromethane	1.331	1.531	-15.0	177	0.00	4.56
7	P	vinyl chloride	0.950	0.931	2.0	150	0.01	4.81
8	P	bromomethane	0.503	0.521	-3.6	162	0.01	5.29
9	P	chloroethane	0.433	0.363	16.2	128	0.00	5.42
10	P	ethyl ether	0.506	0.485	4.2	147	0.00	6.29
11	P	acetonitrile	0.086	0.091	-5.8	155	-0.01	6.07
12	P	trichlorofluoromethane	1.043	1.103	-5.8	164	0.00	6.07
13	P	freon-113	0.660	0.648	1.8	144	0.00	6.83
14	P	acrolein	0.090	0.016#	82.2#	28#	0.00	6.06
15	P	1,1-dichloroethene	0.566	0.503	11.1	140	0.00	6.63
16	P	acetone	0.141	0.166	-17.7	181	0.03	6.21
17	P	Methyl Acetate	0.532	0.548	-3.0	156	0.00	6.82
18	P	methylene chloride	0.612	0.560	8.5	140	0.00	6.78
19	P	methyl tert butyl ether	1.488	1.266	14.9	131	0.00	7.56
20	P	acrylonitrile	0.273	0.270	1.1	151	0.00	6.70
21	P	allyl chloride	1.242	1.244	-0.2	145	0.00	6.87
22	P	trans-1,2-dichloroethene	0.650	0.559	14.0	140	0.00	7.46
23	P	iodomethane	1.138	1.122	1.4	146	0.00	6.69
24	P	carbon disulfide	1.678	1.586	5.5	139	0.00	7.05
25	P	propionitrile	0.054	0.055	-1.9	153	0.00	8.08
26	P	vinyl acetate	0.879	1.690	-92.3#	304#	0.00	7.82
27	P	chloroprene	0.993	0.971	2.2	147	0.00	8.08
28	P	di-isopropyl ether	2.383	2.457	-3.1	155	0.00	8.12
29	P	methacrylonitrile	0.355	0.359	-1.1	162	0.00	8.24
30	P	2-butanone	0.074	0.073#	1.4	149	0.00	8.13
31	P	Ethyl Acetate	2.075	2.173	-4.7	158	0.00	8.12
32	P	Hexane	1.013	1.026	-1.3	152	0.00	8.11
33	P	1,1-dichloroethane	1.181	1.132	4.1	145	0.00	7.72
34	P	tert-butyl ethyl ether	2.089	1.736	16.9	125	0.00	8.52
			Amount	Calc.	%Drift			
35	P	isobutyl alcohol	250.000	250.219	-0.1	151	0.00	8.54

Continuing Calibration Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSU936-CC915
Lab FileID: U20903.D

			AvgRF	CCRF	%Dev			
36	P	2,2-dichloropropane	0.714	0.693	2.9	140	0.00	8.58
37	P	cis-1,2-dichloroethene	0.687	0.623	9.3	145	0.00	8.29
38	P	bromochloromethane	0.350	0.355	-1.4	153	0.00	8.45
39	P	chloroform	1.014	0.980	3.4	149	0.00	8.49
40	S	dibromofluoromethane (s)	0.541	0.619	-14.4	179	0.00	8.61
41	P	Tetrahydrofuran	0.198	0.200	-1.0	166	0.00	8.83
42	P	1,1,1-trichloroethane	0.932	0.938	-0.6	150	0.00	9.24
43	I	1,4-difluorobenzene	1.000	1.000	0.0	149	0.00	9.84
44	P	Cyclohexane	0.743	0.767	-3.2	145	0.00	9.53
45	P	carbon tetrachloride	0.504	0.559	-10.9	153	0.00	9.60
46	P	1,1-dichloropropene	0.393	0.382	2.8	140	0.00	9.42
47	P	benzene	1.159	1.063	8.3	139	0.00	9.64
48	P	1,2-dichloroethane	0.456	0.465	-2.0	153	0.00	9.14
49	P	tert-amyl methyl ether	0.856	0.741	13.4	124	0.00	9.76
50	P	heptane	0.485	0.536	-10.5	161	0.00	10.12
51	P	trichloroethene	0.350	0.323	7.7	137	0.00	10.26
52	P	1,2-dichloropropane	0.337	0.330	2.1	145	0.00	10.23
53	P	dibromomethane	0.192	0.201	-4.7	155	0.00	10.20
54	P	bromodichloromethane	0.391	0.403	-3.1	150	0.00	10.32
55	P	Methylcyclohexane	0.525	0.512	2.5	136	0.00	10.78
56	P	2-chloroethyl vinyl ether	0.149	0.113	24.2#	116	0.00	10.70
57	P	methyl methacrylate	0.125	0.118	5.6	142	0.00	10.42
			Amount	Calc.	%Drift			
58	P	1,4-dioxane	250.000	383.218	-53.3#	193	0.00	10.45
			AvgRF	CCRF	%Dev			
59	P	cis-1,3-dichloropropene	0.394	0.380	3.6	139	0.00	10.94
60	S	toluene-d8 (s)	0.954	1.045	-9.5	164	0.00	11.64
61	P	4-methyl-2-pentanone	0.339	0.390	-15.0	166	0.00	11.04
62	P	toluene	0.625	0.599	4.2	138	0.00	11.71
63	P	trans-1,3-dichloropropene	0.305	0.296	3.0	138	0.00	11.36
64	P	1,1,2-trichloroethane	0.184	0.177	3.8	142	0.00	11.53
65	P	ethyl methacrylate	0.258	0.233	9.7	130	0.00	11.74
66	I	chlorobenzene-d5	1.000	1.000	0.0	134	0.00	13.10
67	P	tetrachloroethene	0.691	0.734	-6.2	143	0.00	12.45
68	P	1,3-dichloropropane	0.745	0.731	1.9	136	0.00	11.76
69	P	dibromochloromethane	0.744	0.799	-7.4	149	0.00	12.05
70	P	1,2-dibromoethane	0.568	0.574	-1.1	142	0.00	12.31
71	P	2-hexanone	0.616	0.829	-34.6#	179	0.00	11.91
72	P	chlorobenzene	1.821	1.819	0.1	138	0.00	13.13
73	P	1,1,1,2-tetrachloroethane	0.899	0.989	-10.0	150	0.00	13.05
74	P	ethylbenzene	2.866	2.790	2.7	133	0.00	13.31
75	P	m,p-xylene	1.204	1.178	2.2	132	0.00	13.49
76	P	o-xylene	1.350	1.333	1.3	134	0.00	13.91
77	P	styrene	1.871	1.777	5.0	130	0.00	13.83
78	P	bromoform	0.517	0.535	-3.5	143	0.00	13.66
79	P	trans-1,4-dichloro-2-bute	0.244	0.175	28.3#	97	0.00	14.06
80	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	137	0.00	15.66
81	P	isopropylbenzene	2.423	2.456	-1.4	135	0.00	14.27
82	S	bromofluorobenzene (s)	0.633	0.650	-2.7	149	0.00	14.33
83	P	bromobenzene	0.644	0.647	-0.5	138	0.00	14.56
84	P	1,1,2,2-tetrachloroethane	0.491	0.541	-10.2	153	0.00	13.91
85	P	1,2,3-trichloropropane	0.571	0.499	12.6	119	0.00	14.06
86	P	n-propylbenzene	2.628	2.589	1.5	132	0.00	14.72

Continuing Calibration Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSU936-CC915
Lab FileID: U20903.D

87	P	2-chlorotoluene	1.677	1.647	1.8	133	0.00	14.83
88	P	4-chlorotoluene	1.685	1.607	4.6	131	0.00	14.91
89	P	1,3,5-trimethylbenzene	2.384	2.464	-3.4	136	0.00	14.99
90	P	tert-butylbenzene	1.300	1.345	-3.5	138	0.00	15.30
91	P	1,2,4-trimethylbenzene	2.415	2.466	-2.1	135	0.00	15.40
92	P	sec-butylbenzene	3.026	3.185	-5.3	137	0.00	15.52
93	P	1,3-dichlorobenzene	1.422	1.440	-1.3	136	0.00	15.62
94	P	p-isopropyltoluene	2.726	2.839	-4.1	136	0.00	15.69
95	P	1,4-dichlorobenzene	1.494	1.444	3.3	132	0.00	15.69
96	P	1,2-dichlorobenzene	1.542	1.595	-3.4	139	0.00	16.06
97	P	n-butylbenzene	2.376	2.474	-4.1	137	0.00	16.11
98	P	1,2-dibromo-3-chloropropa	0.158	0.166	-5.1	147	0.00	16.55
99	P	1,3,5-trichlorobenzene	1.196	1.389	-16.1	152	0.00	17.35
100	P	1,2,4-trichlorobenzene	1.128	1.382	-22.5#	161	0.00	17.89
101	P	hexachlorobutadiene	0.521	0.623	-19.6	162	0.00	18.18
102	P	naphthalene	2.905	3.472	-19.5	161	0.00	18.16
103	P	2-Methylnaphthalene	1.408	1.977	-40.4#	182	0.00	19.53
104	P	1-Methylnaphthalene	1.156	1.636	-41.5#	196	0.00	19.77
105	P	1,2,3-trichlorobenzene	1.028	1.288	-25.3#	166	0.00	18.36

(#) = Out of Range SPCC's out = 2 CCC's out = 0
U20304.D U140606W.m Mon Jul 07 13:12:15 2014

Continuing Calibration Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSU936-ECC915
Lab FileID: U20928.D

Evaluate Continuing Calibration Report

Data File : D:\msdchem\1\data\U140707\U20928.D Vial: 28
Acq On : 7 Jul 2014 9:06 pm Operator: GaryK
Sample : ecc915-50 Inst : MSU
Misc : ms32235,msu936,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\msdchem\1\methods\U140606W.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Jun 09 11:51:52 2014
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	tert butyl alcohol-d9	1.000	1.000	0.0	133	0.02	6.61
2	P	tertiary butyl alcohol	0.106	0.124	-17.0	156	0.00	6.29
			Amount	Calc.	%Drift			
3	P	Ethanol	5000.000	6836.654	-36.7#	195	0.04	5.61
			AvgRF	CCRF	%Dev			
4	I	pentafluorobenzene	1.000	1.000	0.0	165	0.00	8.98
5	P	dichlorodifluoromethane	0.505	0.772	-52.9#	233#	0.04	4.36
6	P	chloromethane	1.331	1.650	-24.0#	198	0.00	4.55
7	P	vinyl chloride	0.950	1.072	-12.8	180	0.01	4.81
8	P	bromomethane	0.503	0.583	-15.9	189	0.01	5.29
9	P	chloroethane	0.433	0.416	3.9	153	0.00	5.42
10	P	ethyl ether	0.506	0.498	1.6	157	0.00	6.29
11	P	acetonitrile	0.086	0.067	22.1#	119	-0.02	6.06
12	P	trichlorofluoromethane	1.043	1.239	-18.8	191	0.00	6.07
13	P	freon-113	0.660	0.617	6.5	143	0.00	6.83
14	P	acrolein	0.090	0.013#	85.6#	23#	0.00	6.06
15	P	1,1-dichloroethene	0.566	0.503	11.1	145	0.00	6.63
16	P	acetone	0.141	0.079#	44.0#	89	0.04	6.22
17	P	Methyl Acetate	0.532	0.498	6.4	147	0.00	6.83
18	P	methylene chloride	0.612	0.566	7.5	147	0.00	6.78
19	P	methyl tert butyl ether	1.488	1.233	17.1	133	0.00	7.57
20	P	acrylonitrile	0.273	0.243	11.0	141	0.00	6.70
21	P	allyl chloride	1.242	1.173	5.6	142	0.00	6.87
22	P	trans-1,2-dichloroethene	0.650	0.570	12.3	149	0.00	7.47
23	P	iodomethane	1.138	1.131	0.6	153	0.00	6.69
24	P	carbon disulfide	1.678	1.554	7.4	142	0.00	7.05
25	P	propionitrile	0.054	0.054	0.0	156	0.00	8.08
26	P	vinyl acetate	0.879	1.460	-66.1#	273#	0.00	7.82
27	P	chloroprene	0.993	0.973	2.0	153	0.00	8.08
28	P	di-isopropyl ether	2.383	2.435	-2.2	160	0.00	8.12
29	P	methacrylonitrile	0.355	0.333	6.2	156	0.00	8.24
30	P	2-butanone	0.074	0.042#	43.2#	89	0.00	8.13
31	P	Ethyl Acetate	2.075	1.891	8.9	143	0.00	8.12
32	P	Hexane	1.013	0.949	6.3	146	0.00	8.11
33	P	1,1-dichloroethane	1.181	1.172	0.8	156	0.00	7.72
34	P	tert-butyl ethyl ether	2.089	1.675	19.8	126	0.00	8.52
			Amount	Calc.	%Drift			
35	P	isobutyl alcohol	250.000	215.275	13.9	136	0.00	8.54

Continuing Calibration Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSU936-ECC915
Lab FileID: U20928.D

			AvgRF	CCRF	%Dev			
36	P	2,2-dichloropropane	0.714	0.612	14.3	129	0.00	8.58
37	P	cis-1,2-dichloroethene	0.687	0.645	6.1	157	0.00	8.29
38	P	bromochloromethane	0.350	0.363	-3.7	163	0.00	8.46
39	P	chloroform	1.014	1.023	-0.9	162	0.00	8.49
40	S	dibromofluoromethane (s)	0.541	0.654	-20.9#	197	0.00	8.61
41	P	Tetrahydrofuran	0.198	0.188	5.1	162	0.00	8.84
42	P	1,1,1-trichloroethane	0.932	0.917	1.6	153	0.00	9.24
43	I	1,4-difluorobenzene	1.000	1.000	0.0	157	0.00	9.84
44	P	Cyclohexane	0.743	0.720	3.1	143	0.00	9.53
45	P	carbon tetrachloride	0.504	0.528	-4.8	153	0.00	9.61
46	P	1,1-dichloropropene	0.393	0.400	-1.8	155	0.00	9.42
47	P	benzene	1.159	1.096	5.4	152	0.00	9.64
48	P	1,2-dichloroethane	0.456	0.474	-3.9	165	0.00	9.14
49	P	tert-amyl methyl ether	0.856	0.699	18.3	124	0.00	9.76
50	P	heptane	0.485	0.465	4.1	147	0.00	10.12
51	P	trichloroethene	0.350	0.342	2.3	153	0.00	10.26
52	P	1,2-dichloropropane	0.337	0.324	3.9	151	0.00	10.23
53	P	dibromomethane	0.192	0.197	-2.6	161	0.00	10.20
54	P	bromodichloromethane	0.391	0.401	-2.6	157	0.00	10.32
55	P	Methylcyclohexane	0.525	0.492	6.3	138	0.00	10.78
56	P	2-chloroethyl vinyl ether	0.149	0.093	37.6#	100	0.00	10.70
57	P	methyl methacrylate	0.125	0.095	24.0#	120	0.00	10.42
			Amount	Calc.	%Drift			
58	P	1,4-dioxane	250.000	283.620	-13.4	148	0.00	10.45
			AvgRF	CCRF	%Dev			
59	P	cis-1,3-dichloropropene	0.394	0.335	15.0	129	0.00	10.94
60	S	toluene-d8 (s)	0.954	0.969	-1.6	160	0.00	11.64
61	P	4-methyl-2-pentanone	0.339	0.307	9.4	138	0.00	11.04
62	P	toluene	0.625	0.550	12.0	133	0.00	11.71
63	P	trans-1,3-dichloropropene	0.305	0.232	23.9#	114	0.00	11.36
64	P	1,1,2-trichloroethane	0.184	0.151	17.9	129	0.00	11.53
65	P	ethyl methacrylate	0.258	0.194	24.8#	115	0.00	11.74
66	I	chlorobenzene-d5	1.000	1.000	0.0	123	0.00	13.10
67	P	tetrachloroethene	0.691	0.767	-11.0	137	0.00	12.46
68	P	1,3-dichloropropane	0.745	0.694	6.8	119	0.00	11.76
69	P	dibromochloromethane	0.744	0.801	-7.7	137	0.00	12.05
70	P	1,2-dibromoethane	0.568	0.561	1.2	128	0.00	12.31
71	P	2-hexanone	0.616	0.417	32.3#	83	0.00	11.92
72	P	chlorobenzene	1.821	1.868	-2.6	130	0.00	13.13
73	P	1,1,1,2-tetrachloroethane	0.899	1.099	-22.2#	153	0.00	13.05
74	P	ethylbenzene	2.866	2.974	-3.8	130	0.00	13.31
75	P	m,p-xylene	1.204	1.234	-2.5	127	0.00	13.49
76	P	o-xylene	1.350	1.464	-8.4	135	0.00	13.91
77	P	styrene	1.871	1.879	-0.4	126	0.00	13.83
78	P	bromoform	0.517	0.530	-2.5	130	0.00	13.66
79	P	trans-1,4-dichloro-2-bute	0.244	0.098	59.8#	50#	0.00	14.06
80	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	134	0.00	15.66
81	P	isopropylbenzene	2.423	2.521	-4.0	136	0.00	14.27
82	S	bromofluorobenzene (s)	0.633	0.640	-1.1	144	0.00	14.33
83	P	bromobenzene	0.644	0.649	-0.8	135	0.00	14.56
84	P	1,1,2,2-tetrachloroethane	0.491	0.520	-5.9	144	0.00	13.91
85	P	1,2,3-trichloropropane	0.571	0.434	24.0#	102	0.00	14.06
86	P	n-propylbenzene	2.628	2.616	0.5	131	0.00	14.72

Continuing Calibration Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSU936-ECC915
Lab FileID: U20928.D

87	P	2-chlorotoluene	1.677	1.691	-0.8	135	0.00	14.83
88	P	4-chlorotoluene	1.685	1.611	4.4	129	0.00	14.91
89	P	1,3,5-trimethylbenzene	2.384	2.496	-4.7	135	0.00	14.99
90	P	tert-butylbenzene	1.300	1.384	-6.5	140	0.00	15.30
91	P	1,2,4-trimethylbenzene	2.415	2.507	-3.8	135	0.00	15.40
92	P	sec-butylbenzene	3.026	3.166	-4.6	134	0.00	15.52
93	P	1,3-dichlorobenzene	1.422	1.471	-3.4	136	0.00	15.62
94	P	p-isopropyltoluene	2.726	2.833	-3.9	133	0.00	15.69
95	P	1,4-dichlorobenzene	1.494	1.487	0.5	133	0.00	15.69
96	P	1,2-dichlorobenzene	1.542	1.664	-7.9	143	0.00	16.06
97	P	n-butylbenzene	2.376	2.481	-4.4	135	0.00	16.11
98	P	1,2-dibromo-3-chloropropa	0.158	0.168	-6.3	147	0.00	16.54
99	P	1,3,5-trichlorobenzene	1.196	1.444	-20.7#	155	0.00	17.35
100	P	1,2,4-trichlorobenzene	1.128	1.455	-29.0#	166	0.00	17.89
101	P	hexachlorobutadiene	0.521	0.642	-23.2#	163	0.00	18.18
102	P	naphthalene	2.905	3.590	-23.6#	163	0.00	18.16
103	P	2-Methylnaphthalene	1.408	2.166	-53.8#	195	0.00	19.52
104	P	1-Methylnaphthalene	1.156	1.767	-52.9#	207#	0.00	19.77
105	P	1,2,3-trichlorobenzene	1.028	1.355	-31.8#	172	0.00	18.36

(#) = Out of Range SPCC's out = 3 CCC's out = 0
U20304.D U140606W.m Tue Jul 08 08:01:36 2014

Continuing Calibration Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSU937-CC915
Lab FileID: U20931.D

Evaluate Continuing Calibration Report

Data File : D:\msdchem\1\data\U140708\U20931.D Vial: 2
Acq On : 8 Jul 2014 8:23 am Operator: GaryK
Sample : cc915-50 Inst : MSU
Misc : ms32230,msu937,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\msdchem\1\methods\U140606W.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Jun 09 11:51:52 2014
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	tert butyl alcohol-d9	1.000	1.000	0.0	138	0.01	6.61
2	P	tertiary butyl alcohol	0.106	0.118	-11.3	154	0.00	6.29
			Amount	Calc.	%Drift			
3	P	Ethanol	5000.000	5967.646	-19.4	178	0.02	5.59
			AvgRF	CCRF	%Dev			
4	I	pentafluorobenzene	1.000	1.000	0.0	165	0.00	8.98
5	P	dichlorodifluoromethane	0.505	0.687	-36.0#	207#	0.03	4.35
6	P	chloromethane	1.331	1.572	-18.1	189	0.00	4.56
7	P	vinyl chloride	0.950	0.995	-4.7	167	0.01	4.81
8	P	bromomethane	0.503	0.542	-7.8	175	0.01	5.28
9	P	chloroethane	0.433	0.381	12.0	140	0.00	5.42
10	P	ethyl ether	0.506	0.490	3.2	154	0.00	6.29
11	P	acetonitrile	0.086	0.074	14.0	131	-0.02	6.06
12	P	trichlorofluoromethane	1.043	1.153	-10.5	178	0.00	6.07
13	P	freon-113	0.660	0.683	-3.5	158	0.00	6.84
14	P	acrolein	0.090	0.023#	74.4#	41#	0.00	6.06
15	P	1,1-dichloroethene	0.566	0.535	5.5	154	0.00	6.64
16	P	acetone	0.141	0.148	-5.0	168	0.05	6.23
17	P	Methyl Acetate	0.532	0.507	4.7	150	0.00	6.82
18	P	methylene chloride	0.612	0.575	6.0	149	0.00	6.78
19	P	methyl tert butyl ether	1.488	1.296	12.9	140	0.00	7.56
20	P	acrylonitrile	0.273	0.244	10.6	142	0.00	6.69
21	P	allyl chloride	1.242	1.278	-2.9	155	0.00	6.88
22	P	trans-1,2-dichloroethene	0.650	0.594	8.6	155	0.00	7.47
23	P	iodomethane	1.138	1.166	-2.5	157	0.00	6.69
24	P	carbon disulfide	1.678	1.662	1.0	151	0.00	7.06
25	P	propionitrile	0.054	0.057	-5.6	165	0.00	8.08
26	P	vinyl acetate	0.879	1.693	-92.6#	316#	0.00	7.82
27	P	chloroprene	0.993	0.992	0.1	156	0.00	8.08
28	P	di-isopropyl ether	2.383	2.497	-4.8	164	0.00	8.12
29	P	methacrylonitrile	0.355	0.348	2.0	163	0.00	8.24
30	P	2-butanone	0.074	0.069#	6.8	145	0.00	8.13
31	P	Ethyl Acetate	2.075	2.145	-3.4	162	0.00	8.12
32	P	Hexane	1.013	1.033	-2.0	159	0.00	8.11
33	P	1,1-dichloroethane	1.181	1.153	2.4	153	0.00	7.72
34	P	tert-butyl ethyl ether	2.089	1.790	14.3	134	0.00	8.52
			Amount	Calc.	%Drift			
35	P	isobutyl alcohol	250.000	229.975	8.0	145	0.00	8.54

Continuing Calibration Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSU937-CC915
Lab FileID: U20931.D

			AvgRF	CCRF	%Dev			
36	P	2,2-dichloropropane	0.714	0.717	-0.4	151	0.00	8.58
37	P	cis-1,2-dichloroethene	0.687	0.640	6.8	155	0.00	8.29
38	P	bromochloromethane	0.350	0.357	-2.0	161	0.00	8.45
39	P	chloroform	1.014	0.999	1.5	158	0.00	8.49
40	S	dibromofluoromethane (s)	0.541	0.631	-16.6	190	0.00	8.61
41	P	Tetrahydrofuran	0.198	0.201	-1.5	173	0.00	8.84
42	P	1,1,1-trichloroethane	0.932	0.969	-4.0	161	0.00	9.24
43	I	1,4-difluorobenzene	1.000	1.000	0.0	161	0.00	9.84
44	P	Cyclohexane	0.743	0.758	-2.0	155	0.00	9.53
45	P	carbon tetrachloride	0.504	0.555	-10.1	165	0.00	9.61
46	P	1,1-dichloropropene	0.393	0.384	2.3	153	0.00	9.42
47	P	benzene	1.159	1.047	9.7	148	0.00	9.64
48	P	1,2-dichloroethane	0.456	0.457	-0.2	163	0.00	9.14
49	P	tert-amyl methyl ether	0.856	0.733	14.4	133	0.00	9.76
50	P	heptane	0.485	0.551	-13.6	179	0.00	10.12
51	P	trichloroethene	0.350	0.324	7.4	149	0.00	10.26
52	P	1,2-dichloropropane	0.337	0.335	0.6	159	0.00	10.23
53	P	dibromomethane	0.192	0.197	-2.6	165	0.00	10.20
54	P	bromodichloromethane	0.391	0.404	-3.3	162	0.00	10.32
55	P	Methylcyclohexane	0.525	0.520	1.0	149	0.00	10.78
56	P	2-chloroethyl vinyl ether	0.149	0.124	16.8	137	0.00	10.70
57	P	methyl methacrylate	0.125	0.124	0.8	162	0.00	10.42
			Amount	Calc.	%Drift			
58	P	1,4-dioxane	250.000	255.702	-2.3	136	0.00	10.45
			AvgRF	CCRF	%Dev			
59	P	cis-1,3-dichloropropene	0.394	0.389	1.3	154	0.00	10.94
60	S	toluene-d8 (s)	0.954	1.072	-12.4	182	0.00	11.64
61	P	4-methyl-2-pentanone	0.339	0.368	-8.6	170	0.00	11.04
62	P	toluene	0.625	0.612	2.1	152	0.00	11.71
63	P	trans-1,3-dichloropropene	0.305	0.309	-1.3	156	0.00	11.36
64	P	1,1,2-trichloroethane	0.184	0.181	1.6	158	0.00	11.53
65	P	ethyl methacrylate	0.258	0.245	5.0	149	0.00	11.74
66	I	chlorobenzene-d5	1.000	1.000	0.0	151	0.00	13.10
67	P	tetrachloroethene	0.691	0.724	-4.8	159	0.00	12.45
68	P	1,3-dichloropropane	0.745	0.736	1.2	154	0.00	11.76
69	P	dibromochloromethane	0.744	0.799	-7.4	168	0.00	12.05
70	P	1,2-dibromoethane	0.568	0.587	-3.3	164	0.00	12.31
71	P	2-hexanone	0.616	0.732	-18.8	178	-0.01	11.90
72	P	chlorobenzene	1.821	1.797	1.3	153	0.00	13.13
73	P	1,1,1,2-tetrachloroethane	0.899	0.944	-5.0	161	0.00	13.05
74	P	ethylbenzene	2.866	2.822	1.5	152	0.00	13.31
75	P	m,p-xylene	1.204	1.194	0.8	151	0.00	13.49
76	P	o-xylene	1.350	1.327	1.7	151	0.00	13.91
77	P	styrene	1.871	1.774	5.2	146	0.00	13.83
78	P	bromoform	0.517	0.536	-3.7	161	0.00	13.66
79	P	trans-1,4-dichloro-2-bute	0.244	0.167	31.6#	105	0.00	14.06
80	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	149	0.00	15.66
81	P	isopropylbenzene	2.423	2.519	-4.0	151	0.00	14.27
82	S	bromofluorobenzene (s)	0.633	0.678	-7.1	169	0.00	14.33
83	P	bromobenzene	0.644	0.657	-2.0	152	0.00	14.56
84	P	1,1,2,2-tetrachloroethane	0.491	0.541	-10.2	167	0.00	13.91
85	P	1,2,3-trichloropropane	0.571	0.495	13.3	129	0.00	14.06
86	P	n-propylbenzene	2.628	2.658	-1.1	148	0.00	14.72

Continuing Calibration Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSU937-CC915
Lab FileID: U20931.D

87	P	2-chlorotoluene	1.677	1.666	0.7	147	0.00	14.83
88	P	4-chlorotoluene	1.685	1.629	3.3	145	0.00	14.91
89	P	1,3,5-trimethylbenzene	2.384	2.491	-4.5	150	0.00	14.99
90	P	tert-butylbenzene	1.300	1.355	-4.2	152	0.00	15.30
91	P	1,2,4-trimethylbenzene	2.415	2.487	-3.0	149	0.00	15.40
92	P	sec-butylbenzene	3.026	3.203	-5.8	151	0.00	15.52
93	P	1,3-dichlorobenzene	1.422	1.432	-0.7	147	0.00	15.62
94	P	p-isopropyltoluene	2.726	2.860	-4.9	149	0.00	15.69
95	P	1,4-dichlorobenzene	1.494	1.435	3.9	143	0.00	15.69
96	P	1,2-dichlorobenzene	1.542	1.587	-2.9	151	0.00	16.06
97	P	n-butylbenzene	2.376	2.498	-5.1	151	0.00	16.11
98	P	1,2-dibromo-3-chloropropa	0.158	0.159	-0.6	154	0.00	16.55
99	P	1,3,5-trichlorobenzene	1.196	1.356	-13.4	162	0.00	17.35
100	P	1,2,4-trichlorobenzene	1.128	1.313	-16.4	166	0.00	17.89
101	P	hexachlorobutadiene	0.521	0.604	-15.9	171	0.00	18.18
102	P	naphthalene	2.905	3.174	-9.3	160	0.00	18.16
103	P	2-Methylnaphthalene	1.408	1.619	-15.0	162	0.00	19.53
104	P	1-Methylnaphthalene	1.156	1.293	-11.9	169	0.00	19.77
105	P	1,2,3-trichlorobenzene	1.028	1.183	-15.1	167	0.00	18.36

(#) = Out of Range SPCC's out = 2 CCC's out = 0
U20304.D U140606W.m Tue Jul 08 10:11:11 2014

6.7.7

Continuing Calibration Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSU937-ECC915
Lab FileID: U20957.D

Evaluate Continuing Calibration Report

Data File : D:\msdchem\1\data\U140708\U20957.D Vial: 28
Acq On : 8 Jul 2014 8:09 pm Operator: GaryK
Sample : ecc915-50 Inst : MSU
Misc : ms32230,msu937,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\msdchem\1\methods\U140606W.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Jun 09 11:51:52 2014
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	tert butyl alcohol-d9	1.000	1.000	0.0	112	0.00	6.60
2	P	tertiary butyl alcohol	0.106	0.132	-24.5#	141	0.00	6.29
			Amount	Calc.	%Drift			
3	P	Ethanol	5000.000	6869.364	-37.4#	166	0.00	5.57
			AvgRF	CCRF	%Dev			
4	I	pentafluorobenzene	1.000	1.000	0.0	142	0.00	8.98
5	P	dichlorodifluoromethane	0.505	0.738	-46.1#	192	0.03	4.34
6	P	chloromethane	1.331	1.653	-24.2#	171	0.00	4.55
7	P	vinyl chloride	0.950	1.021	-7.5	148	0.00	4.80
8	P	bromomethane	0.503	0.565	-12.3	158	0.00	5.28
9	P	chloroethane	0.433	0.382	11.8	121	0.00	5.42
10	P	ethyl ether	0.506	0.519	-2.6	141	0.00	6.29
11	P	acetonitrile	0.086	0.078	9.3	119	-0.01	6.07
12	P	trichlorofluoromethane	1.043	1.177	-12.8	157	0.00	6.07
13	P	freon-113	0.660	0.691	-4.7	138	0.00	6.83
14	P	acrolein	0.090	0.019#	78.9#	29#	0.00	6.05
15	P	1,1-dichloroethene	0.566	0.548	3.2	136	0.00	6.63
16	P	acetone	0.141	0.085#	39.7#	83	0.06	6.24
17	P	Methyl Acetate	0.532	0.536	-0.8	137	0.00	6.82
18	P	methylene chloride	0.612	0.614	-0.3	138	0.00	6.78
19	P	methyl tert butyl ether	1.488	1.280	14.0	119	0.00	7.57
20	P	acrylonitrile	0.273	0.265	2.9	133	0.01	6.71
21	P	allyl chloride	1.242	1.325	-6.7	139	0.00	6.88
22	P	trans-1,2-dichloroethene	0.650	0.614	5.5	138	0.00	7.47
23	P	iodomethane	1.138	1.216	-6.9	142	0.00	6.69
24	P	carbon disulfide	1.678	1.671	0.4	132	0.00	7.05
25	P	propionitrile	0.054	0.060	-11.1	149	0.00	8.08
26	P	vinyl acetate	0.879	1.688	-92.0#	272#	0.00	7.82
27	P	chloroprene	0.993	1.091	-9.9	148	0.00	8.08
28	P	di-isopropyl ether	2.383	2.631	-10.4	149	0.00	8.12
29	P	methacrylonitrile	0.355	0.352	0.8	143	0.00	8.24
30	P	2-butanone	0.074	0.044#	40.5#	80	0.00	8.13
31	P	Ethyl Acetate	2.075	2.052	1.1	134	0.00	8.12
32	P	Hexane	1.013	1.066	-5.2	142	0.00	8.11
33	P	1,1-dichloroethane	1.181	1.243	-5.2	142	0.00	7.72
34	P	tert-butyl ethyl ether	2.089	1.737	16.9	112	0.00	8.52
			Amount	Calc.	%Drift			
35	P	isobutyl alcohol	250.000	237.637	4.9	129	0.00	8.54

Continuing Calibration Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSU937-ECC915
Lab FileID: U20957.D

			AvgRF	CCRF	%Dev			
36	P	2,2-dichloropropane	0.714	0.675	5.5	123	0.00	8.58
37	P	cis-1,2-dichloroethene	0.687	0.689	-0.3	144	0.00	8.29
38	P	bromochloromethane	0.350	0.388	-10.9	151	0.00	8.46
39	P	chloroform	1.014	1.093	-7.8	149	0.00	8.49
40	S	dibromofluoromethane (s)	0.541	0.684	-26.4#	178	0.00	8.61
41	P	Tetrahydrofuran	0.198	0.201	-1.5	150	0.00	8.84
42	P	1,1,1-trichloroethane	0.932	1.027	-10.2	147	0.00	9.24
43	I	1,4-difluorobenzene	1.000	1.000	0.0	133	0.00	9.84
44	P	Cyclohexane	0.743	0.809	-8.9	137	0.00	9.53
45	P	carbon tetrachloride	0.504	0.606	-20.2#	149	0.00	9.61
46	P	1,1-dichloropropene	0.393	0.431	-9.7	142	0.00	9.42
47	P	benzene	1.159	1.142	1.5	134	0.00	9.64
48	P	1,2-dichloroethane	0.456	0.518	-13.6	154	0.00	9.14
49	P	tert-amyl methyl ether	0.856	0.733	14.4	110	0.00	9.76
50	P	heptane	0.485	0.531	-9.5	143	0.00	10.12
51	P	trichloroethene	0.350	0.359	-2.6	137	0.00	10.26
52	P	1,2-dichloropropane	0.337	0.338	-0.3	134	0.00	10.23
53	P	dibromomethane	0.192	0.204	-6.2	141	0.00	10.20
54	P	bromodichloromethane	0.391	0.422	-7.9	141	0.00	10.32
55	P	Methylcyclohexane	0.525	0.543	-3.4	129	0.00	10.78
56	P	2-chloroethyl vinyl ether	0.149	0.089	40.3#	81	0.00	10.71
57	P	methyl methacrylate	0.125	0.097	22.4#	105	0.00	10.42

			Amount	Calc.	%Drift			
58	P	1,4-dioxane	250.000	287.205	-14.9	128	0.00	10.45

			AvgRF	CCRF	%Dev			
59	P	cis-1,3-dichloropropene	0.394	0.355	9.9	117	0.00	10.94
60	S	toluene-d8 (s)	0.954	1.003	-5.1	141	0.00	11.64
61	P	4-methyl-2-pentanone	0.339	0.338	0.3	130	0.00	11.04
62	P	toluene	0.625	0.587	6.1	121	0.00	11.71
63	P	trans-1,3-dichloropropene	0.305	0.246	19.3	103	0.00	11.36
64	P	1,1,2-trichloroethane	0.184	0.163	11.4	118	0.00	11.53
65	P	ethyl methacrylate	0.258	0.206	20.2#	104	0.00	11.74
66	I	chlorobenzene-d5	1.000	1.000	0.0	112	0.00	13.10
67	P	tetrachloroethene	0.691	0.769	-11.3	126	0.00	12.46
68	P	1,3-dichloropropane	0.745	0.685	8.1	107	0.00	11.76
69	P	dibromochloromethane	0.744	0.809	-8.7	126	0.00	12.06
70	P	1,2-dibromoethane	0.568	0.551	3.0	114	0.00	12.31
71	P	2-hexanone	0.616	0.418	32.1#	76	0.01	11.92
72	P	chlorobenzene	1.821	1.861	-2.2	118	0.00	13.13
73	P	1,1,1,2-tetrachloroethane	0.899	1.122	-24.8#	142	0.00	13.05
74	P	ethylbenzene	2.866	2.940	-2.6	118	0.00	13.31
75	P	m,p-xylene	1.204	1.249	-3.7	118	0.00	13.49
76	P	o-xylene	1.350	1.489	-10.3	126	0.00	13.91
77	P	styrene	1.871	1.826	2.4	112	0.00	13.83
78	P	bromoform	0.517	0.546	-5.6	122	0.00	13.66
79	P	trans-1,4-dichloro-2-bute	0.244	0.151	38.1#	70	0.00	14.06
80	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	121	0.00	15.66
81	P	isopropylbenzene	2.423	2.614	-7.9	128	0.00	14.27
82	S	bromofluorobenzene (s)	0.633	0.622	1.7	126	0.00	14.33
83	P	bromobenzene	0.644	0.653	-1.4	123	0.00	14.56
84	P	1,1,2,2-tetrachloroethane	0.491	0.546	-11.2	137	0.00	13.91
85	P	1,2,3-trichloropropane	0.571	0.467	18.2	99	0.00	14.06
86	P	n-propylbenzene	2.628	2.676	-1.8	122	0.00	14.72

Continuing Calibration Summary

Job Number: MC31799
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSU937-ECC915
Lab FileID: U20957.D

87	P	2-chlorotoluene	1.677	1.700	-1.4	122	0.00	14.83
88	P	4-chlorotoluene	1.685	1.612	4.3	117	0.00	14.91
89	P	1,3,5-trimethylbenzene	2.384	2.618	-9.8	128	0.00	14.99
90	P	tert-butylbenzene	1.300	1.456	-12.0	133	0.00	15.30
91	P	1,2,4-trimethylbenzene	2.415	2.585	-7.0	126	0.00	15.40
92	P	sec-butylbenzene	3.026	3.373	-11.5	129	0.00	15.52
93	P	1,3-dichlorobenzene	1.422	1.510	-6.2	126	0.00	15.62
94	P	p-isopropyltoluene	2.726	2.972	-9.0	126	0.00	15.69
95	P	1,4-dichlorobenzene	1.494	1.517	-1.5	123	0.00	15.69
96	P	1,2-dichlorobenzene	1.542	1.718	-11.4	133	0.00	16.06
97	P	n-butylbenzene	2.376	2.623	-10.4	129	0.00	16.11
98	P	1,2-dibromo-3-chloropropa	0.158	0.169	-7.0	133	0.00	16.54
99	P	1,3,5-trichlorobenzene	1.196	1.537	-28.5#	149	0.00	17.35
100	P	1,2,4-trichlorobenzene	1.128	1.551	-37.5#	160	0.00	17.89
101	P	hexachlorobutadiene	0.521	0.692	-32.8#	159	0.00	18.18
102	P	naphthalene	2.905	3.789	-30.4#	156	0.00	18.16
103	P	2-Methylnaphthalene	1.408	2.264	-60.8#	185	0.00	19.53
104	P	1-Methylnaphthalene	1.156	1.889	-63.4#	201#	0.00	19.77
105	P	1,2,3-trichlorobenzene	1.028	1.451	-41.1#	166	0.00	18.36

(#) = Out of Range SPCC's out = 3 CCC's out = 0
U20304.D U140606W.m Wed Jul 09 07:48:26 2014

New England ACCUTEST LABORATORIES

GC/MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20834.D
Acq On : 3 Jul 2014 11:36 am
Operator : GaryK
Sample : mc31799-1
Misc : ms32217,msu934,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 03 13:10:48 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

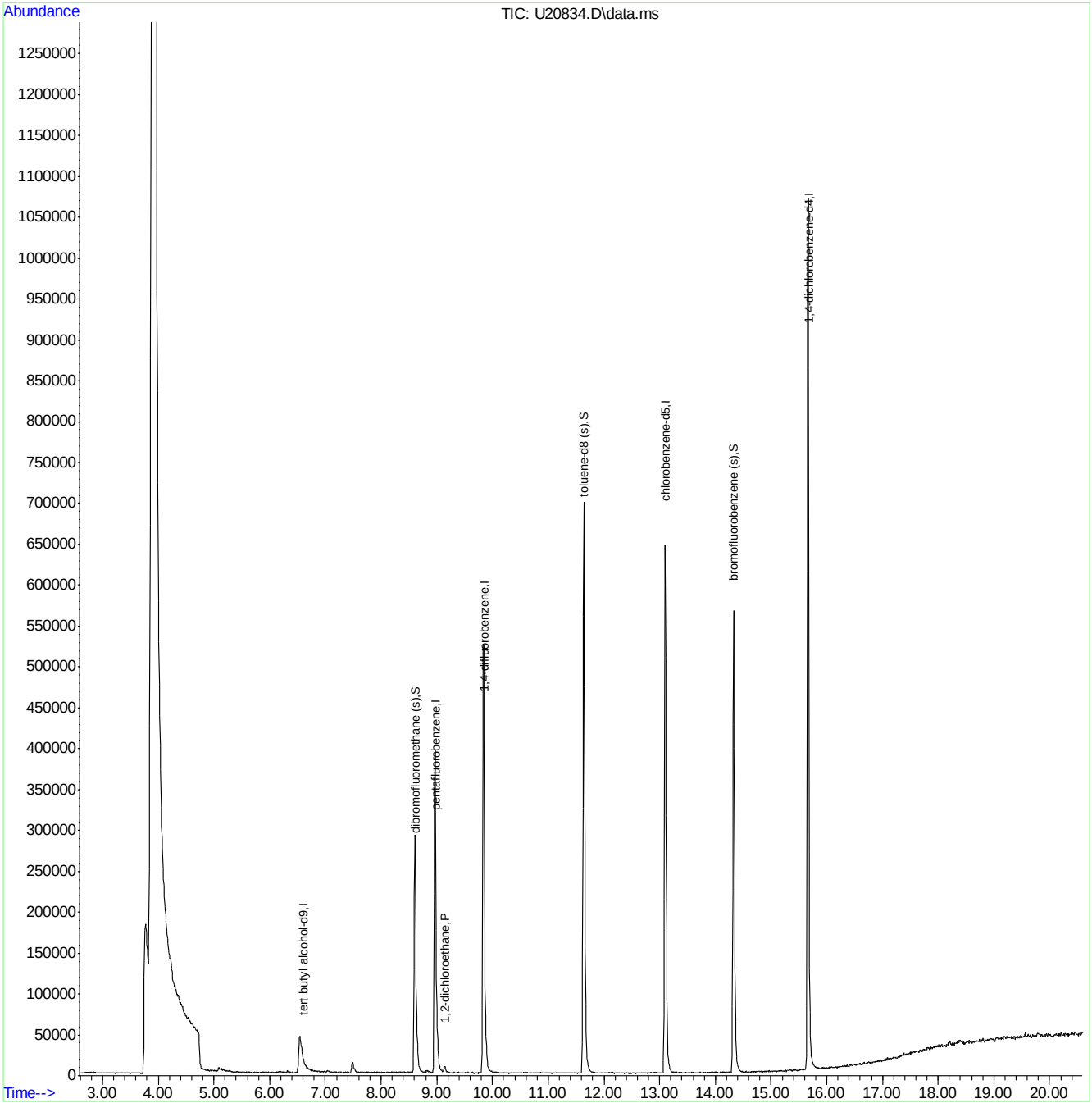
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.611	65	139954	50.00	ppb	0.02
4) pentafluorobenzene	8.979	168	337857	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.847	114	537787	50.00	ppb	0.00
66) chlorobenzene-d5	13.105	82	206763	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.668	152	339511	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.617	113	222267	60.79	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 121.58%			
60) toluene-d8 (s)	11.645	98	538870	52.53	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 105.06%			
82) bromofluorobenzene (s)	14.334	95	223903	52.06	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 104.12%			
Target Compounds						Qvalue
48) 1,2-dichloroethane	9.149	62	6670	1.36	ppb	90

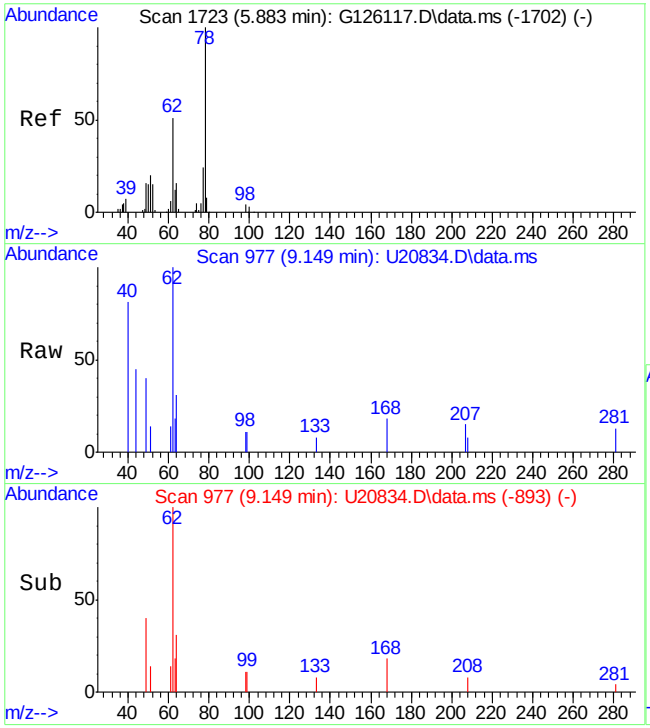
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20834.D
Acq On : 3 Jul 2014 11:36 am
Operator : GaryK
Sample : mc31799-1
Misc : ms32217,msu934,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 03 13:10:48 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

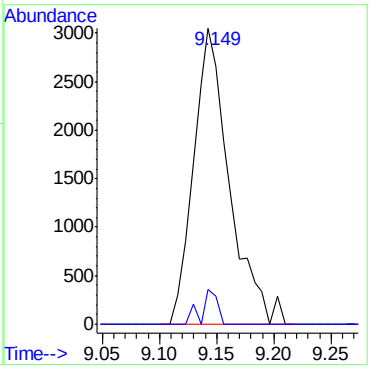




#48
1,2-dichloroethane
Concen: 1.36 ppb
RT: 9.149 min Scan# 977
Delta R.T. 0.007 min
Lab File: U20834.D
Acq: 3 Jul 2014 11:36 am

Tgt Ion: 62 Resp: 6670

Ion	Ratio	Lower	Upper
62	100		
98	11.0	0.0	37.6



7.1.1

7

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20835.D
Acq On : 3 Jul 2014 12:03 pm
Operator : GaryK
Sample : mc31799-2
Misc : ms32217,msu934,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 03 13:11:58 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

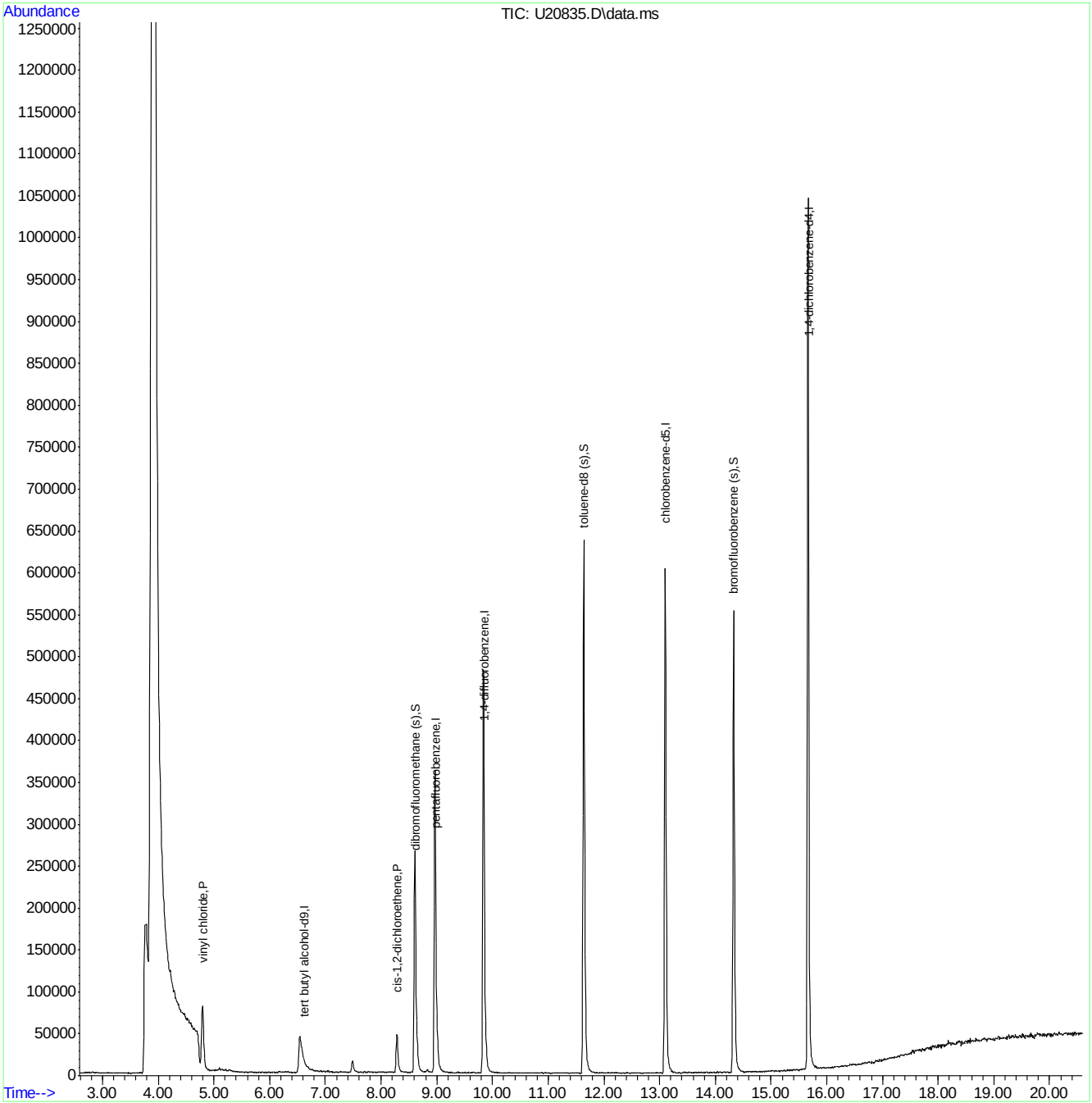
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.619	65	145595	50.00	ppb	0.02
4) pentafluorobenzene	8.979	168	307961	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.847	114	492960	50.00	ppb	0.00
66) chlorobenzene-d5	13.105	82	192372	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.668	152	331420	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.617	113	202994	60.91	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 121.82%			
60) toluene-d8 (s)	11.645	98	496562	52.81	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 105.62%			
82) bromofluorobenzene (s)	14.334	95	212702	50.66	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.32%			
Target Compounds						Qvalue
7) vinyl chloride	4.799	62	135379	23.14	ppb	97
37) cis-1,2-dichloroethene	8.292	96	22905	5.42	ppb	98

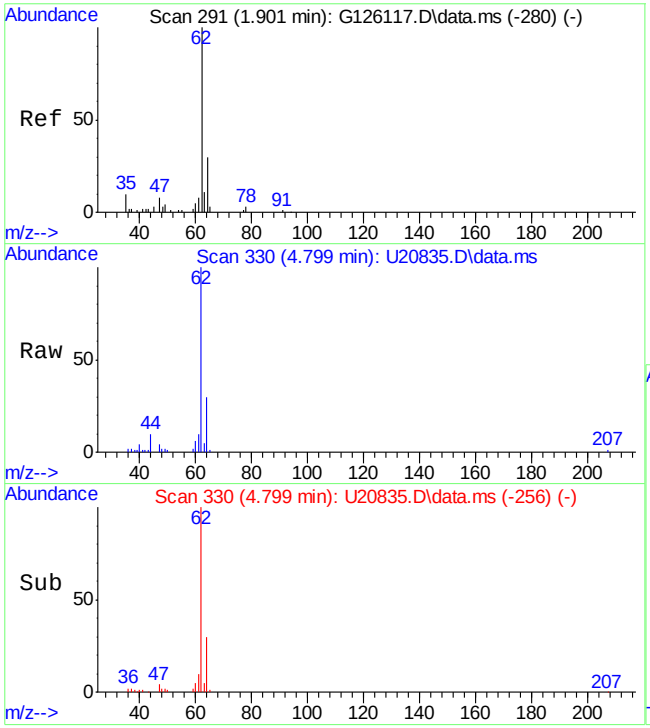
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20835.D
Acq On : 3 Jul 2014 12:03 pm
Operator : GaryK
Sample : mc31799-2
Misc : ms32217,msu934,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 03 13:11:58 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

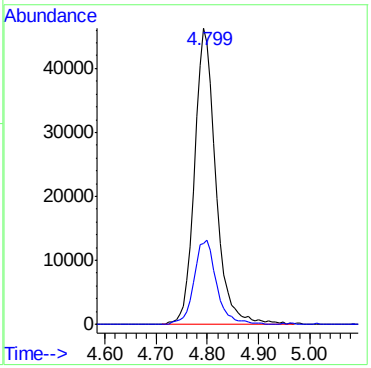


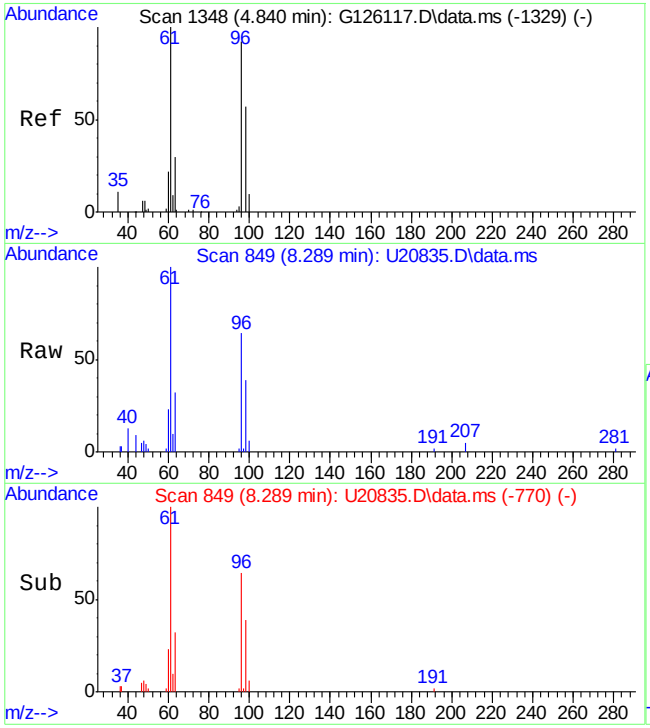


#7
vinyl chloride
Concen: 23.14 ppb
RT: 4.799 min Scan# 330
Delta R.T. 0.000 min
Lab File: U20835.D
Acq: 3 Jul 2014 12:03 pm

Tgt Ion: 62 Resp: 135379

Ion	Ratio	Lower	Upper
62	100		
64	30.0	1.8	61.8

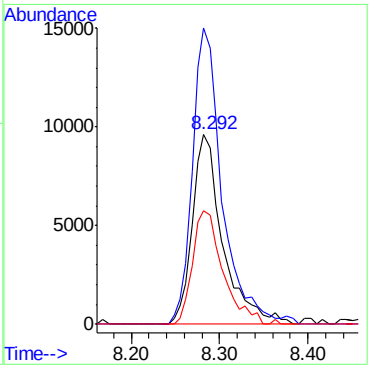




#37
cis-1,2-dichloroethene
Concen: 5.42 ppb
RT: 8.292 min Scan# 849
Delta R.T. 0.003 min
Lab File: U20835.D
Acq: 3 Jul 2014 12:03 pm

Tgt Ion: 96 Resp: 22905

Ion	Ratio	Lower	Upper
96	100		
61	156.2	126.3	186.3
98	61.5	36.2	96.2



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20836.D
Acq On : 3 Jul 2014 12:30 pm
Operator : GaryK
Sample : mc31799-3
Misc : ms32217,msu934,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 03 13:12:36 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

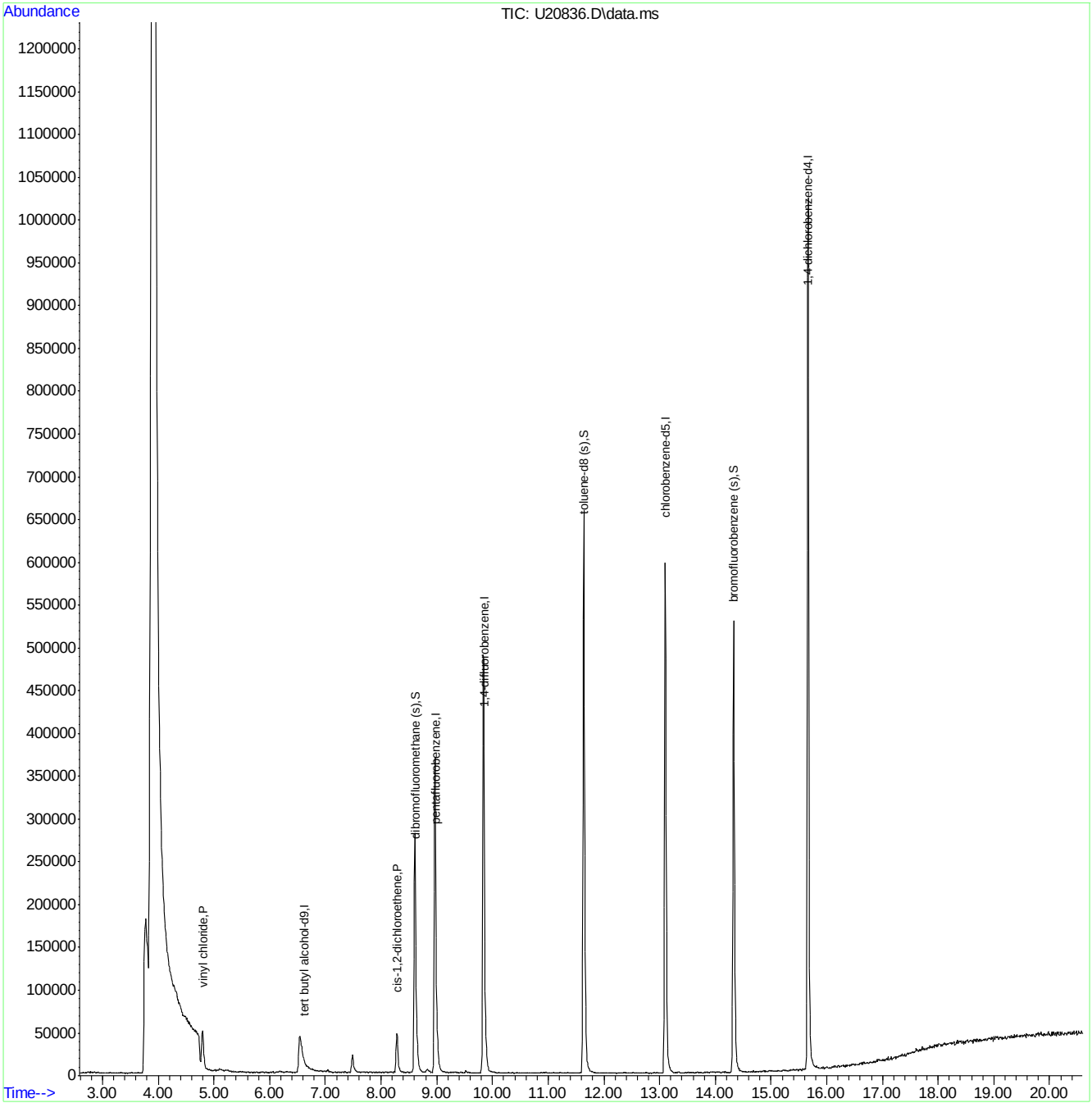
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.618	65	149747	50.00	ppb	0.02
4) pentafluorobenzene	8.979	168	316945	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.847	114	503037	50.00	ppb	0.00
66) chlorobenzene-d5	13.105	82	188025	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.668	152	325475	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.616	113	216372	63.08	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 126.16%			
60) toluene-d8 (s)	11.645	98	502240	52.34	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 104.68%			
82) bromofluorobenzene (s)	14.334	95	207079	50.23	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.46%			
Target Compounds						Qvalue
7) vinyl chloride	4.798	62	76097	12.64	ppb	94
37) cis-1,2-dichloroethene	8.292	96	24220	5.56	ppb	95

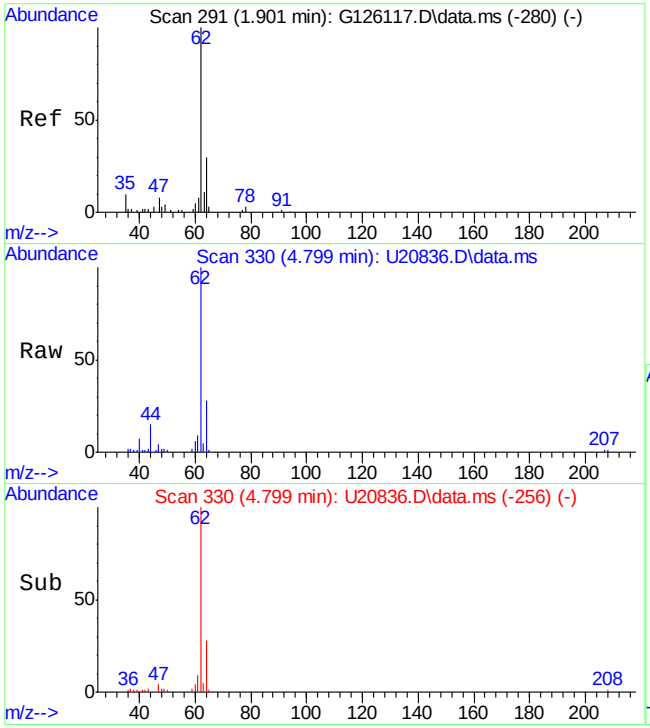
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20836.D
Acq On : 3 Jul 2014 12:30 pm
Operator : GaryK
Sample : mc31799-3
Misc : ms32217,msu934,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 03 13:12:36 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

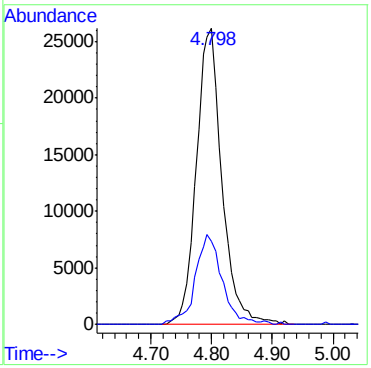


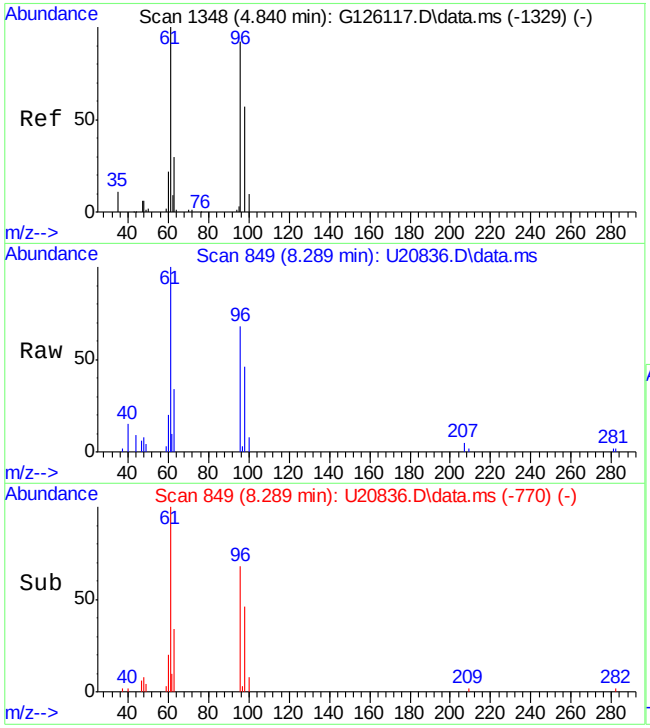


#7
vinyl chloride
Concen: 12.64 ppb
RT: 4.798 min Scan# 330
Delta R.T. -0.001 min
Lab File: U20836.D
Acq: 3 Jul 2014 12:30 pm

Tgt Ion: 62 Resp: 76097

Ion	Ratio	Lower	Upper
62	100		
64	28.2	1.8	61.8

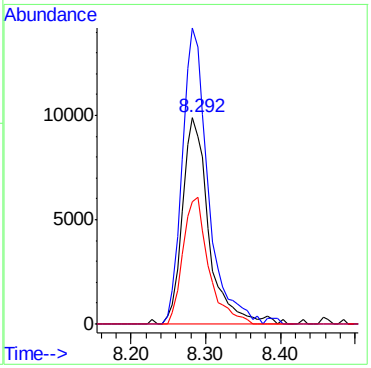




#37
cis-1,2-dichloroethene
Concen: 5.56 ppb
RT: 8.292 min Scan# 849
Delta R.T. 0.003 min
Lab File: U20836.D
Acq: 3 Jul 2014 12:30 pm

Tgt Ion: 96 Resp: 24220

Ion	Ratio	Lower	Upper
96	100		
61	147.6	126.3	186.3
98	67.8	36.2	96.2



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20833.D
Acq On : 3 Jul 2014 11:09 am
Operator : GaryK
Sample : mc31799-4
Misc : ms32217,msu934,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 03 11:32:25 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

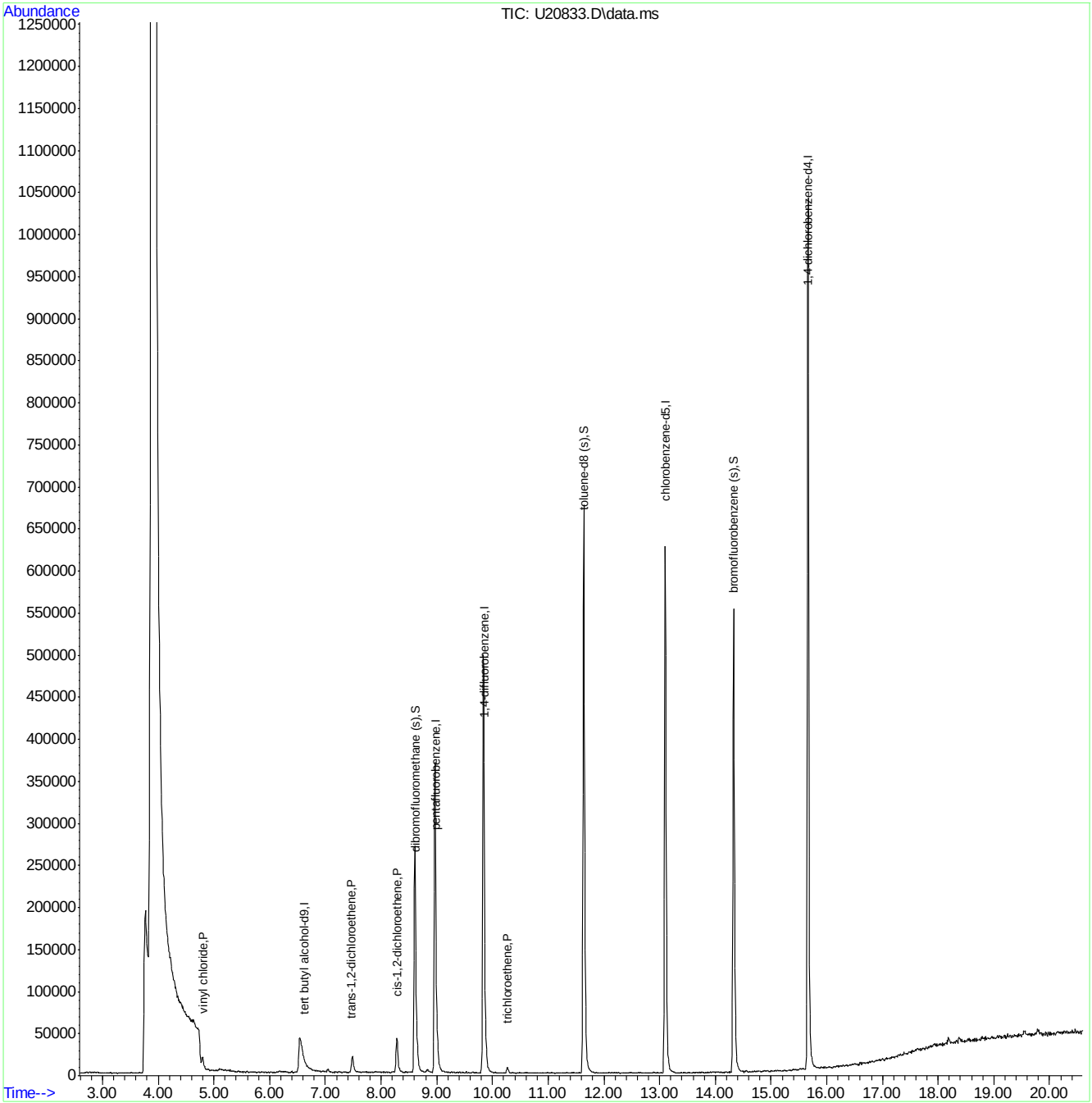
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.612	65	148204	50.00	ppb		0.02
4) pentafluorobenzene	8.979	168	317839	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.846	114	509660	50.00	ppb		0.00
66) chlorobenzene-d5	13.105	82	198848	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.668	152	331296	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.616	113	209808	60.99	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 121.98%				
60) toluene-d8 (s)	11.644	98	520231	53.51	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 107.02%				
82) bromofluorobenzene (s)	14.334	95	216727	51.64	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.28%				
Target Compounds							Qvalue
7) vinyl chloride	4.797	62	23764	3.94	ppb		88
22) trans-1,2-dichloroethene	7.467	96	1863	0.45	ppb		88
37) cis-1,2-dichloroethene	8.291	96	21245	4.87	ppb		89
51) trichloroethene	10.267	95	2836	0.80	ppb	#	60

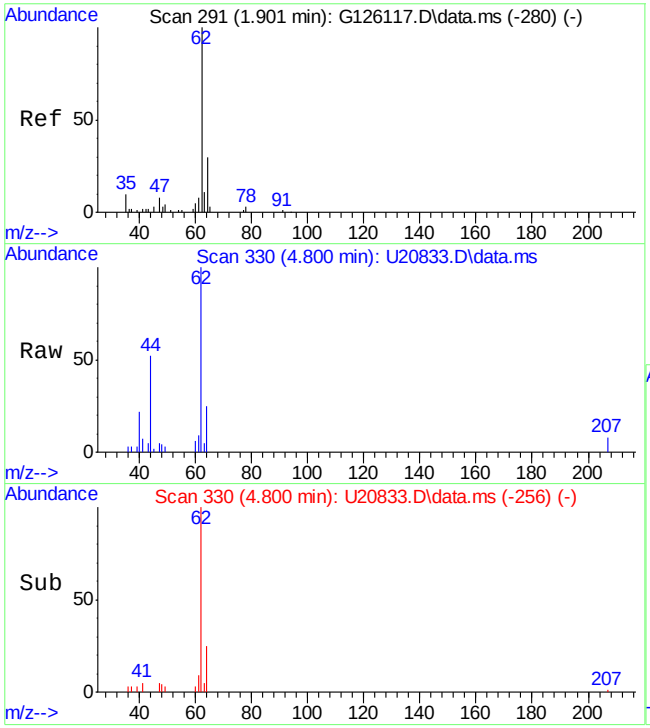
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20833.D
Acq On : 3 Jul 2014 11:09 am
Operator : GaryK
Sample : mc31799-4
Misc : ms32217,msu934,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 03 11:32:25 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

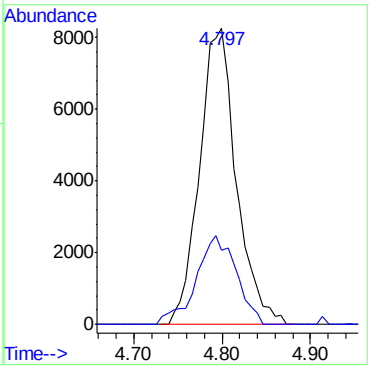


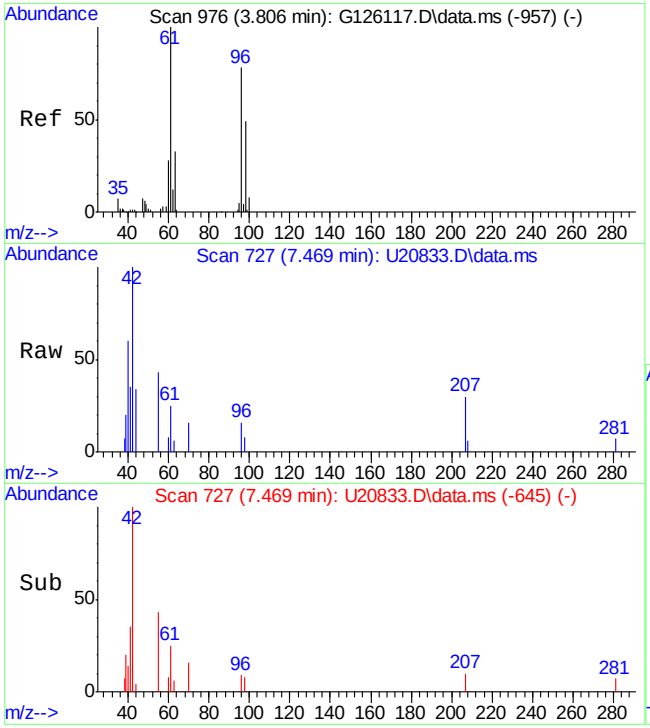


#7
vinyl chloride
Concen: 3.94 ppb
RT: 4.797 min Scan# 330
Delta R.T. -0.002 min
Lab File: U20833.D
Acq: 3 Jul 2014 11:09 am

Tgt Ion: 62 Resp: 23764

Ion	Ratio	Lower	Upper
62	100		
64	25.1	1.8	61.8

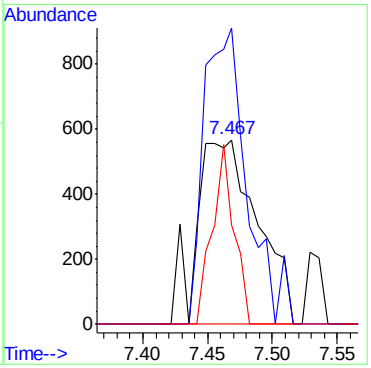


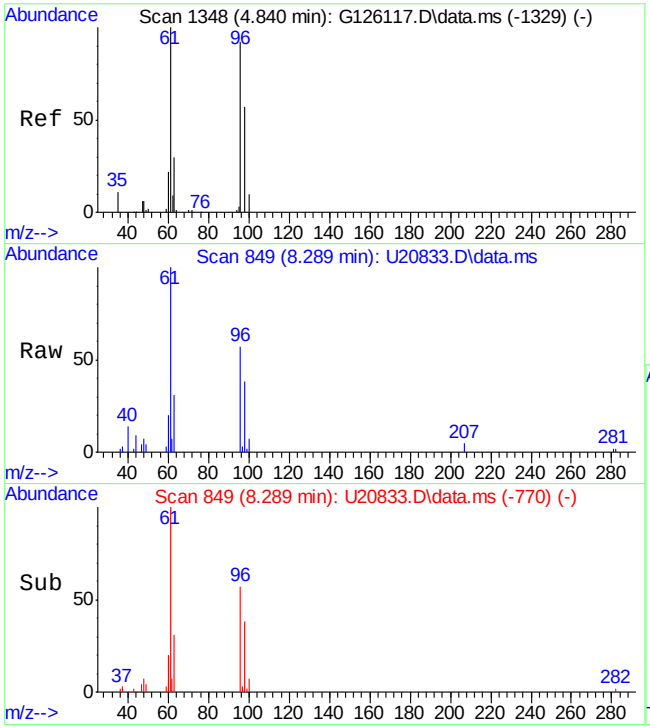


#22
trans-1,2-dichloroethene
Concen: 0.45 ppb
RT: 7.467 min Scan# 727
Delta R.T. 0.000 min
Lab File: U20833.D
Acq: 3 Jul 2014 11:09 am

Tgt Ion: 96 Resp: 1863

Ion	Ratio	Lower	Upper
96	100		
61	160.8	145.5	205.5
98	54.0	35.2	95.2

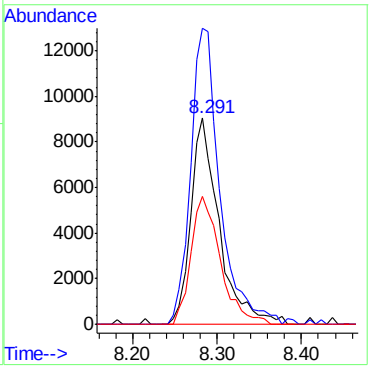


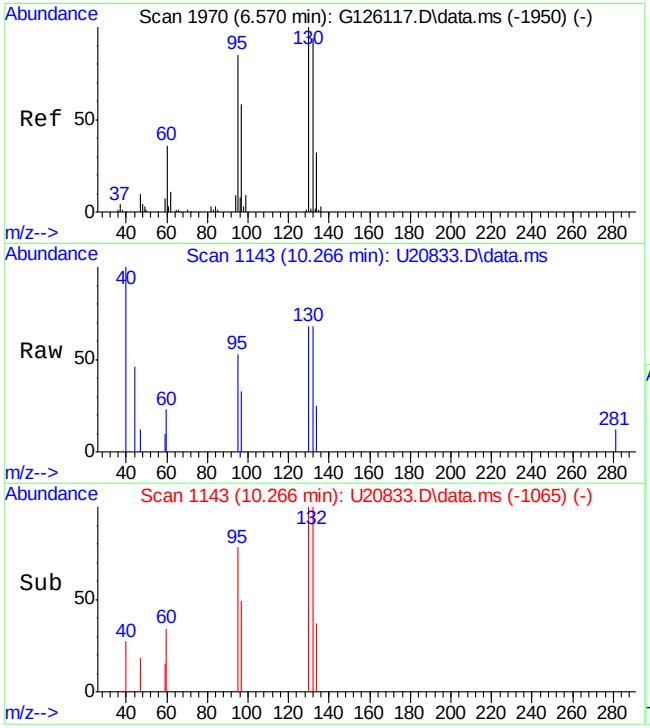


#37
cis-1,2-dichloroethene
Concen: 4.87 ppb
RT: 8.291 min Scan# 849
Delta R.T. 0.002 min
Lab File: U20833.D
Acq: 3 Jul 2014 11:09 am

Tgt Ion: 96 Resp: 21245

Ion	Ratio	Lower	Upper
96	100		
61	175.5	126.3	186.3
98	67.5	36.2	96.2

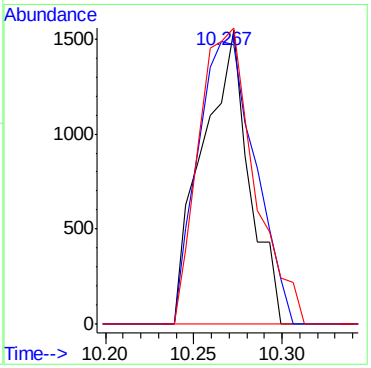




#51
trichloroethene
Concen: 0.80 ppb
RT: 10.267 min Scan# 1143
Delta R.T. 0.006 min
Lab File: U20833.D
Acq: 3 Jul 2014 11:09 am

Tgt Ion: 95 Resp: 2836

Ion	Ratio	Lower	Upper
95	100		
130	128.2	58.8	118.8#
132	128.3	62.5	122.5#



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20837.D
Acq On : 3 Jul 2014 12:57 pm
Operator : GaryK
Sample : mc31799-5
Misc : ms32217,msu934,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 03 16:28:17 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

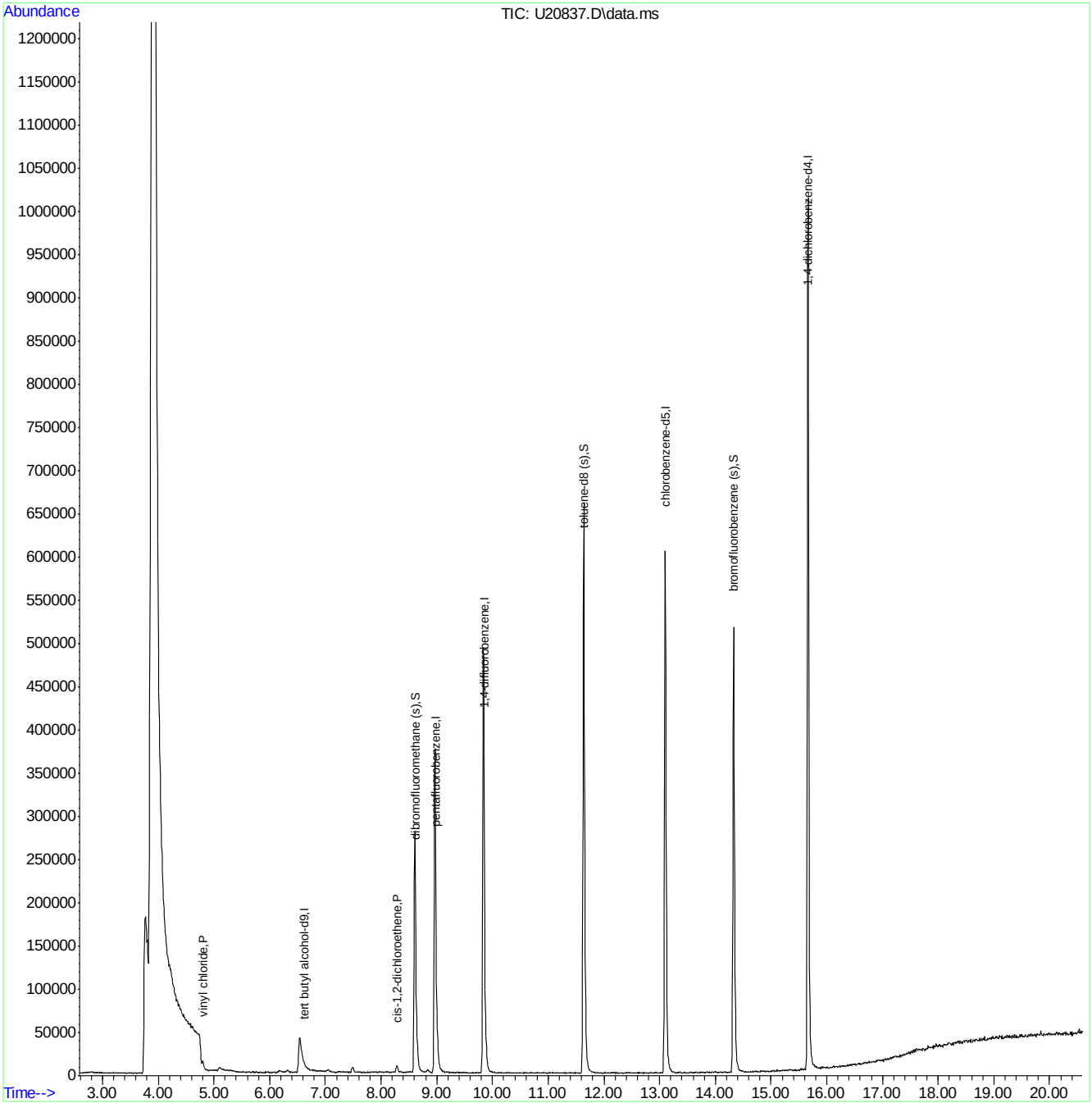
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.621	65	128938	50.00	ppb	0.02
4) pentafluorobenzene	8.978	168	316588	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.847	114	504783	50.00	ppb	0.00
66) chlorobenzene-d5	13.105	82	189722	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.668	152	323131	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.616	113	212241	61.94	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 123.88%			
60) toluene-d8 (s)	11.644	98	502549	52.19	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 104.38%			
82) bromofluorobenzene (s)	14.334	95	204559	49.97	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.94%			
Target Compounds						Qvalue
7) vinyl chloride	4.799	62	13328	2.22	ppb	100
37) cis-1,2-dichloroethene	8.289	96	4586	1.05	ppb	90

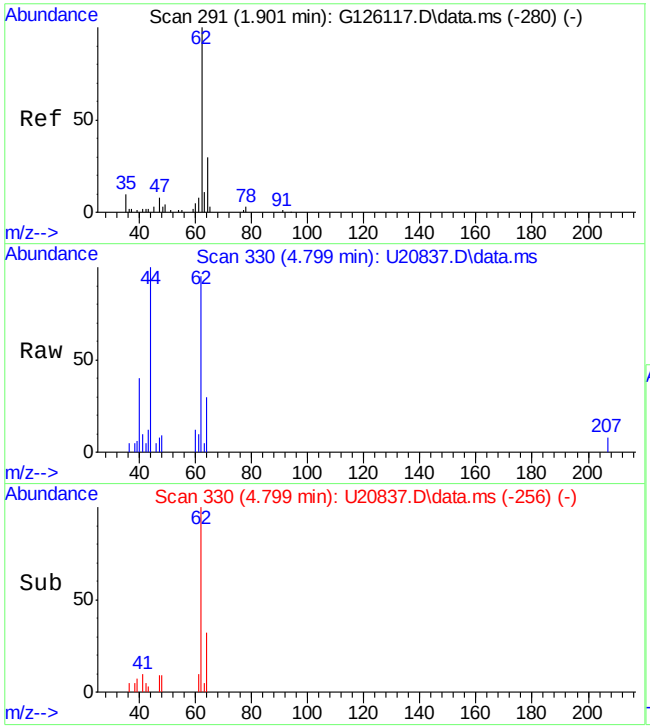
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20837.D
Acq On : 3 Jul 2014 12:57 pm
Operator : GaryK
Sample : mc31799-5
Misc : ms32217,msu934,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 03 16:28:17 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

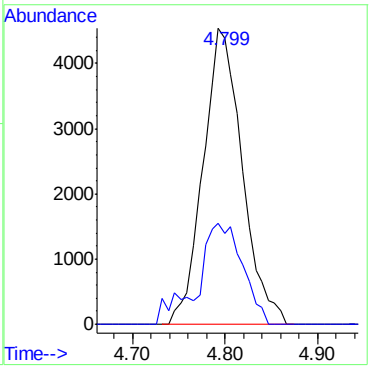


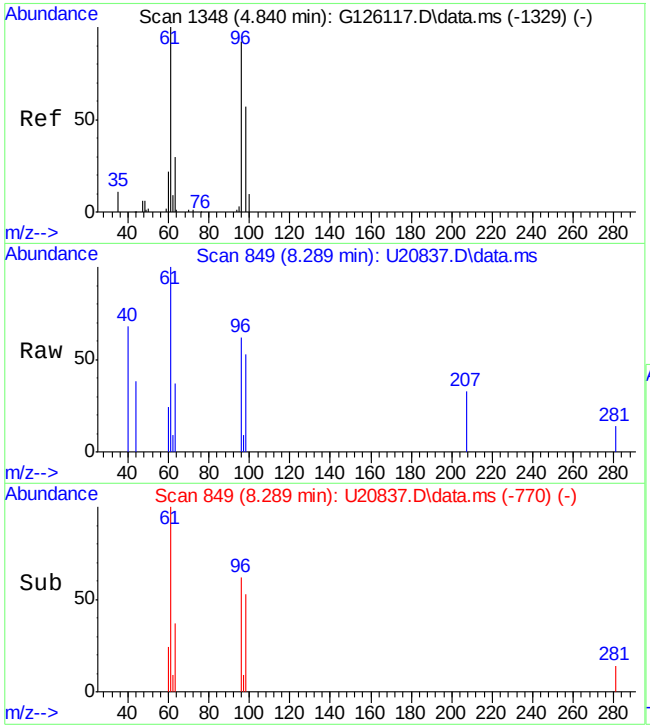


#7
vinyl chloride
Concen: 2.22 ppb
RT: 4.799 min Scan# 330
Delta R.T. -0.000 min
Lab File: U20837.D
Acq: 3 Jul 2014 12:57 pm

Tgt Ion: 62 Resp: 13328

Ion	Ratio	Lower	Upper
62	100		
64	31.6	1.8	61.8

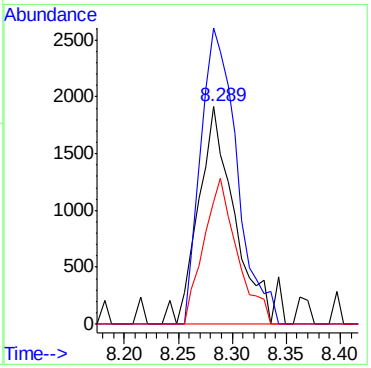




#37
cis-1,2-dichloroethene
Concen: 1.05 ppb
RT: 8.289 min Scan# 849
Delta R.T. 0.000 min
Lab File: U20837.D
Acq: 3 Jul 2014 12:57 pm

Tgt Ion: 96 Resp: 4586

Ion	Ratio	Lower	Upper
96	100		
61	161.2	126.3	186.3
98	86.2	36.2	96.2



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20838.D
Acq On : 3 Jul 2014 1:24 pm
Operator : GaryK
Sample : mc31799-6
Misc : ms32217,msu934,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 03 16:29:01 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

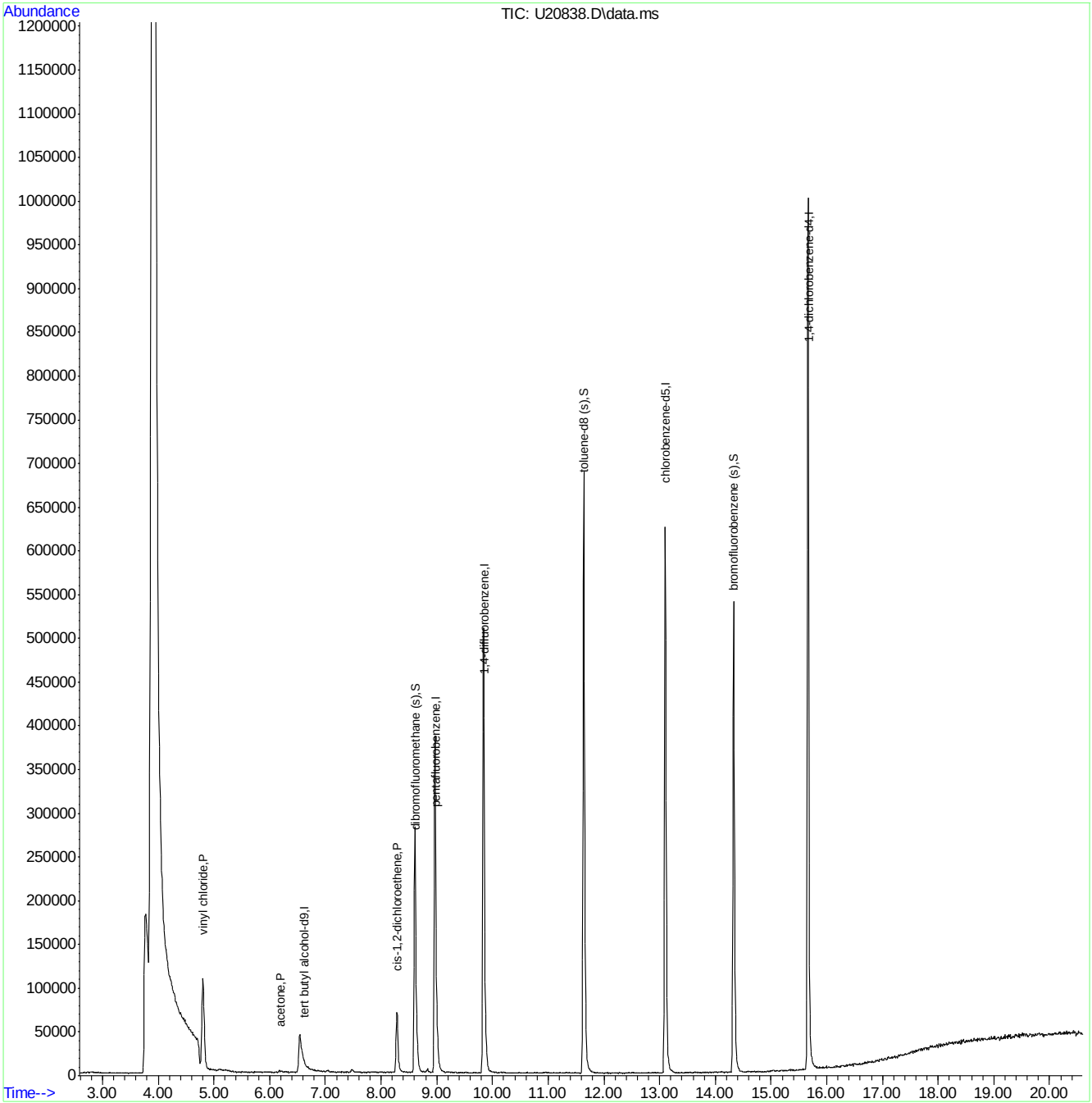
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.618	65	138863	50.00	ppb		0.02
4) pentafluorobenzene	8.979	168	326407	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.847	114	526311	50.00	ppb		0.00
66) chlorobenzene-d5	13.105	82	197694	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.668	152	319952	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.617	113	213784	60.52	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 121.04%				
60) toluene-d8 (s)	11.645	98	523412	52.14	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 104.28%				
82) bromofluorobenzene (s)	14.334	95	209439	51.68	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.36%				
Target Compounds							Qvalue
7) vinyl chloride	4.808	62	196766	31.74	ppb		99
16) acetone	6.184	58	1132	1.23	ppb	#	72
37) cis-1,2-dichloroethene	8.292	96	35851	8.00	ppb		99

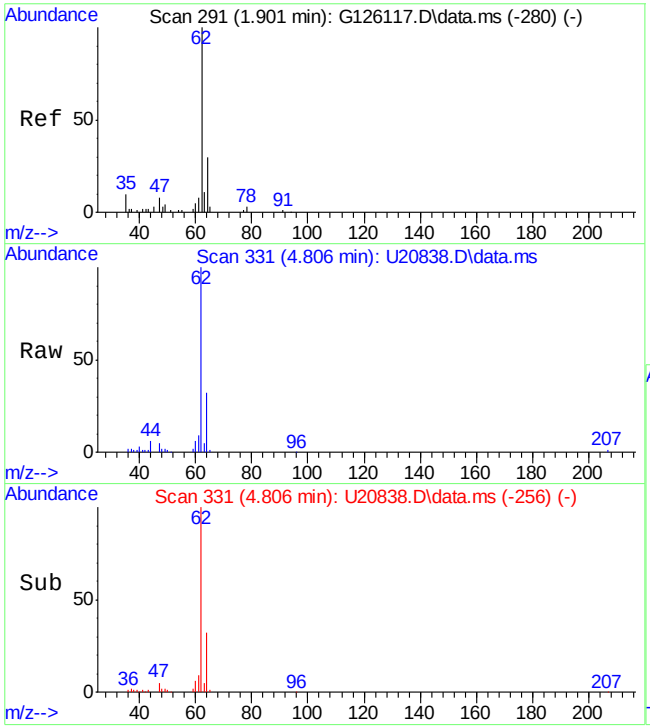
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20838.D
Acq On : 3 Jul 2014 1:24 pm
Operator : GaryK
Sample : mc31799-6
Misc : ms32217,msu934,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 03 16:29:01 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

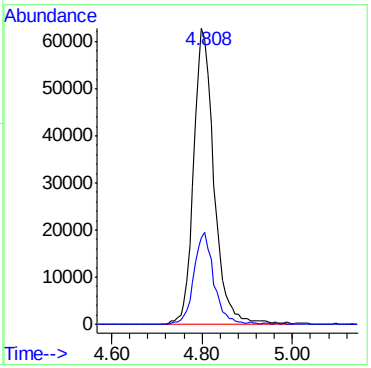


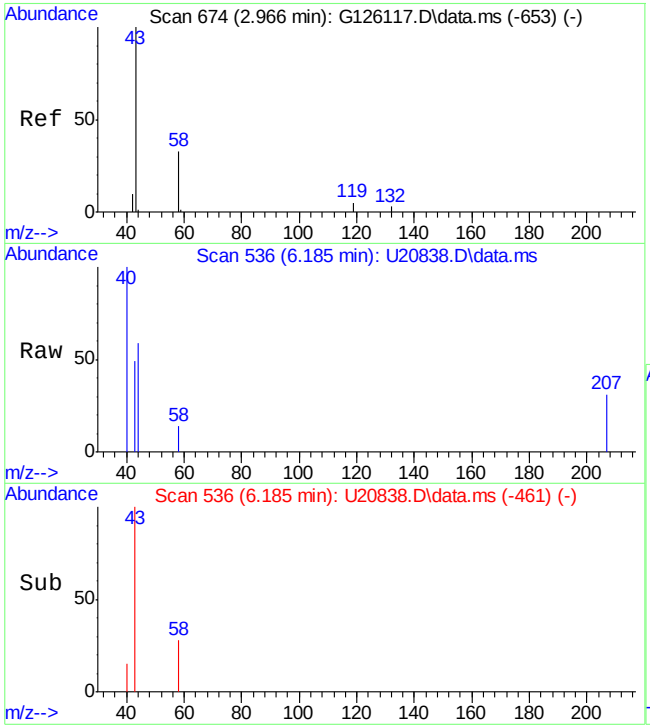


#7
vinyl chloride
Concen: 31.74 ppb
RT: 4.808 min Scan# 331
Delta R.T. 0.009 min
Lab File: U20838.D
Acq: 3 Jul 2014 1:24 pm

Tgt Ion: 62 Resp: 196766

Ion	Ratio	Lower	Upper
62	100		
64	32.1	1.8	61.8

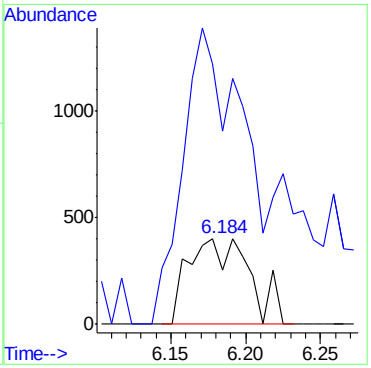


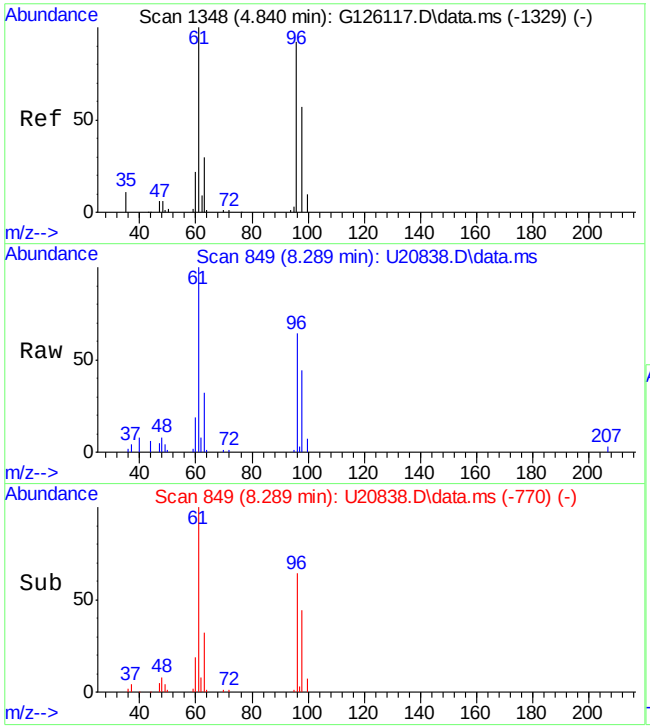


#16
acetone
Concen: 1.23 ppb
RT: 6.184 min Scan# 536
Delta R.T. 0.006 min
Lab File: U20838.D
Acq: 3 Jul 2014 1:24 pm

Tgt Ion: 58 Resp: 1132

Ion	Ratio	Lower	Upper
58	100		
43	253.8	278.8	338.8#

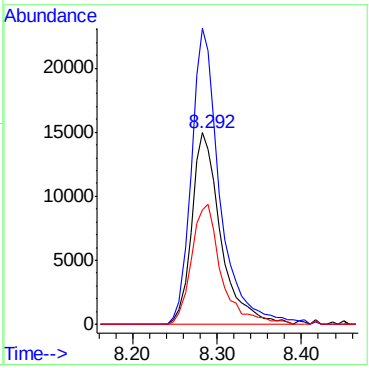




#37
cis-1,2-dichloroethene
Concen: 8.00 ppb
RT: 8.292 min Scan# 849
Delta R.T. 0.003 min
Lab File: U20838.D
Acq: 3 Jul 2014 1:24 pm

Tgt Ion: 96 Resp: 35851

Ion	Ratio	Lower	Upper
96	100		
61	156.3	126.3	186.3
98	68.2	36.2	96.2



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20839.D
Acq On : 3 Jul 2014 1:52 pm
Operator : GaryK
Sample : mc31799-7
Misc : ms32217,msu934,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 03 16:29:39 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

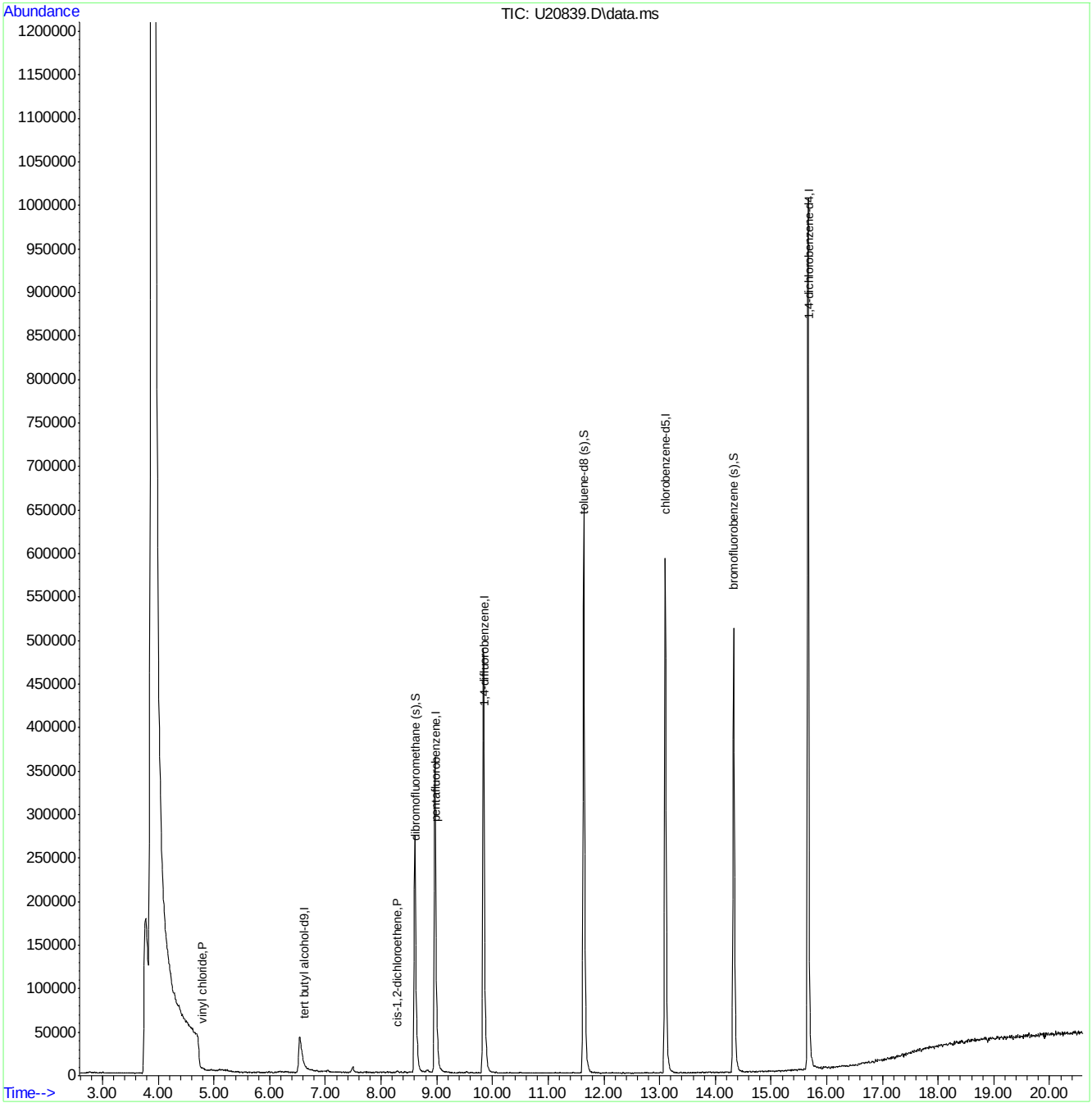
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.617	65	128157	50.00	ppb	0.02
4) pentafluorobenzene	8.979	168	314343	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.846	114	499057	50.00	ppb	0.00
66) chlorobenzene-d5	13.105	82	189706	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.668	152	319769	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.616	113	209242	61.51	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 123.02%			
60) toluene-d8 (s)	11.644	98	498773	52.40	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 104.80%			
82) bromofluorobenzene (s)	14.334	95	202979	50.11	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.22%			
Target Compounds						Qvalue
7) vinyl chloride	4.791	62	2559	0.43	ppb	86
37) cis-1,2-dichloroethene	8.291	96	1404	0.33	ppb	87

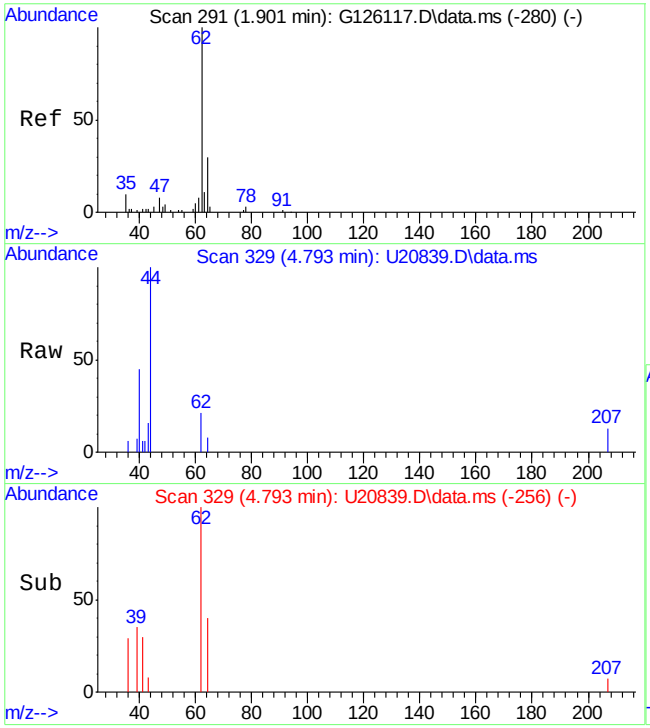
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20839.D
Acq On : 3 Jul 2014 1:52 pm
Operator : GaryK
Sample : mc31799-7
Misc : ms32217,msu934,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 03 16:29:39 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

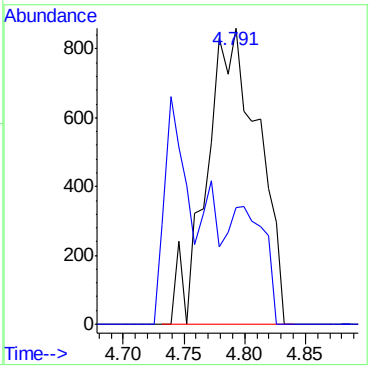


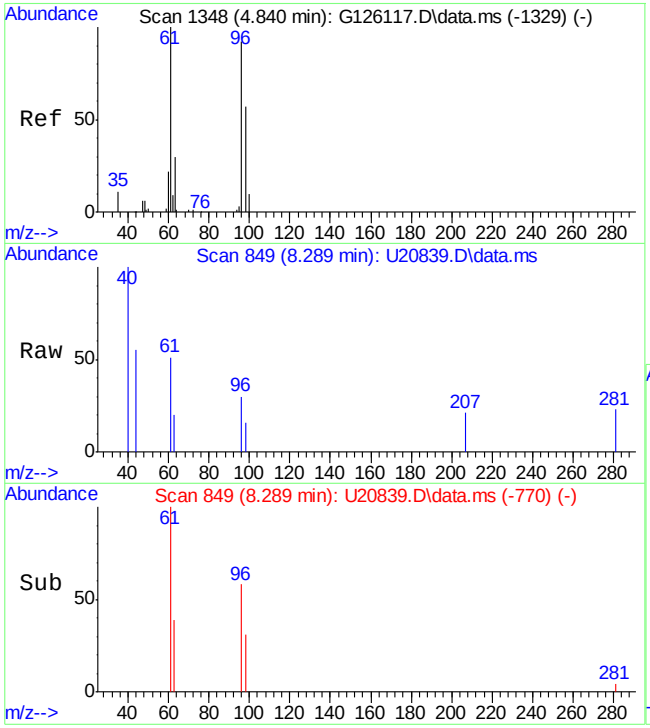


#7
vinyl chloride
Concen: 0.43 ppb
RT: 4.791 min Scan# 329
Delta R.T. -0.008 min
Lab File: U20839.D
Acq: 3 Jul 2014 1:52 pm

Tgt Ion: 62 Resp: 2559

Ion	Ratio	Lower	Upper
62	100		
64	39.5	1.8	61.8

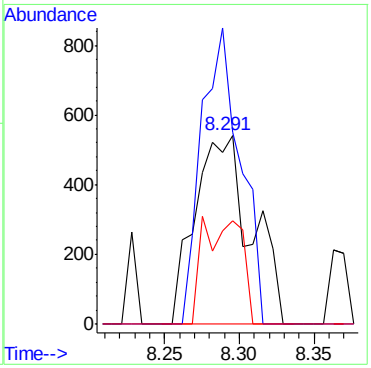




#37
cis-1,2-dichloroethene
Concen: 0.33 ppb
RT: 8.291 min Scan# 849
Delta R.T. 0.002 min
Lab File: U20839.D
Acq: 3 Jul 2014 1:52 pm

Tgt Ion: 96 Resp: 1404

Ion	Ratio	Lower	Upper
96	100		
61	172.4	126.3	186.3
98	54.0	36.2	96.2



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20840.D
Acq On : 3 Jul 2014 2:19 pm
Operator : GaryK
Sample : mc31799-8
Misc : ms32217,msu934,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 03 16:30:15 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

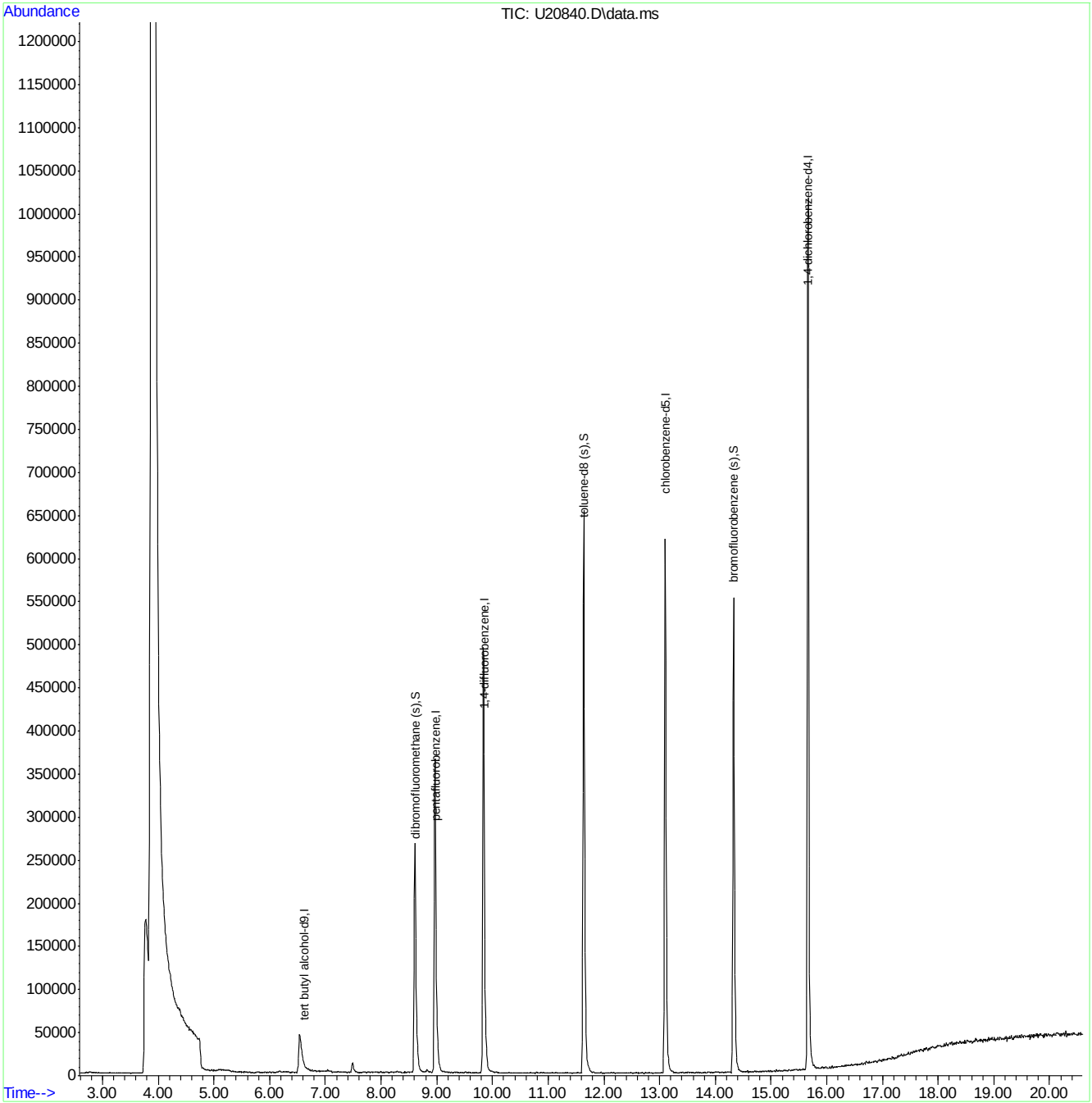
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.627	65	131141	50.00	ppb		0.03
4) pentafluorobenzene	8.980	168	313366	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.847	114	503042	50.00	ppb		0.00
66) chlorobenzene-d5	13.105	82	198643	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.668	152	325897	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.617	113	207638	61.22	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 122.44%				
60) toluene-d8 (s)	11.644	98	502141	52.33	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 104.66%				
82) bromofluorobenzene (s)	14.334	95	214088	51.86	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.72%				
Target Compounds							Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20840.D
Acq On : 3 Jul 2014 2:19 pm
Operator : GaryK
Sample : mc31799-8
Misc : ms32217,msu934,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 03 16:30:15 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20841.D
Acq On : 3 Jul 2014 2:46 pm
Operator : GaryK
Sample : mc31799-9
Misc : ms32217,msu934,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 03 16:31:33 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

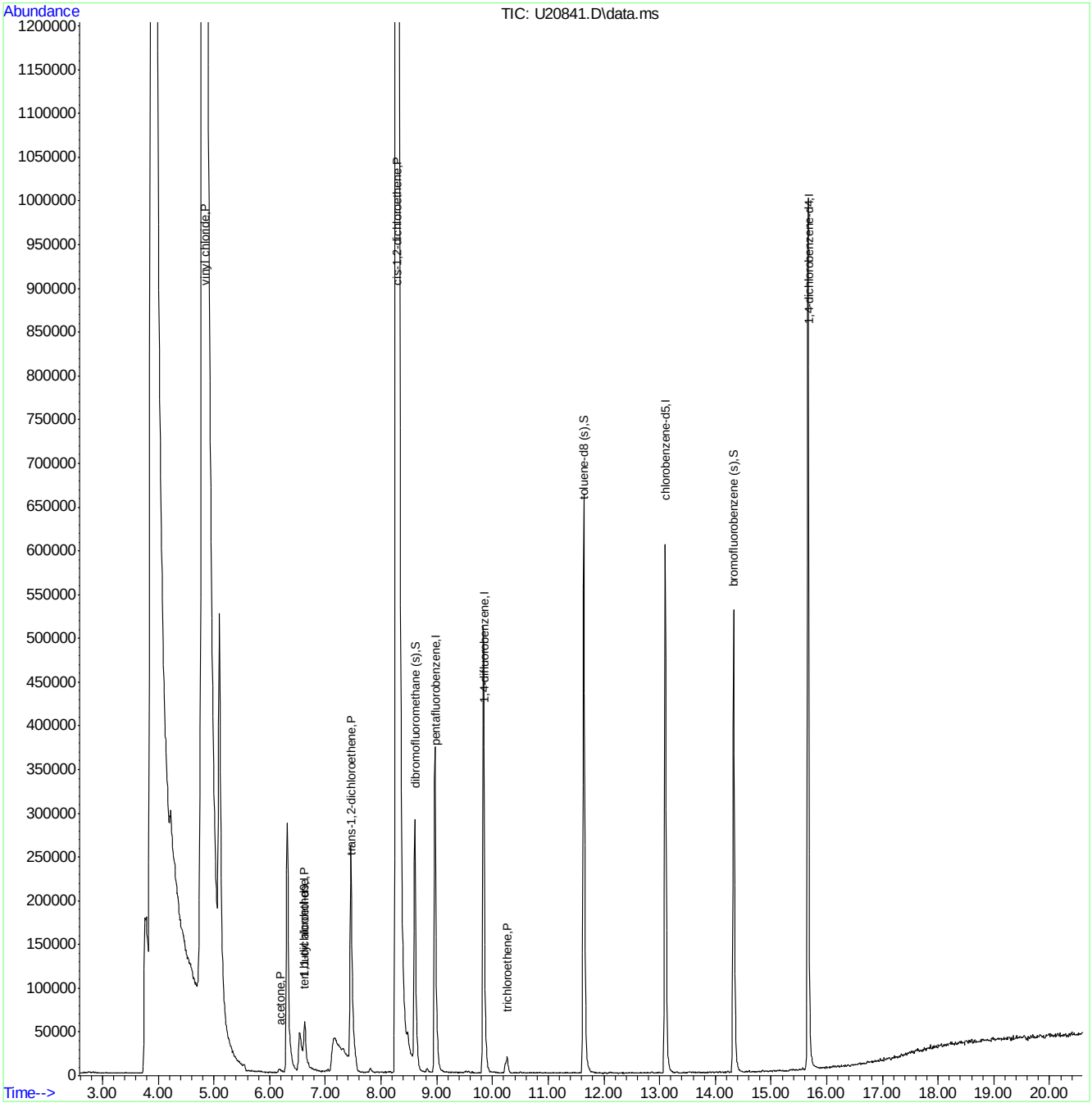
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.614	65	138770	50.00	ppb	#	0.02
4) pentafluorobenzene	8.978	168	312011	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.846	114	507344	50.00	ppb		0.00
66) chlorobenzene-d5	13.104	82	190727	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.668	152	318003	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.614	113	207479	61.44	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 122.88%				
60) toluene-d8 (s)	11.644	98	507341	52.42	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 104.84%				
82) bromofluorobenzene (s)	14.333	95	206668	51.30	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.60%				
Target Compounds							Qvalue
7) vinyl chloride	4.848	62	19564533	3301.09	ppb		98
15) 1,1-dichloroethene	6.627	96	9162	2.60	ppb	#	16
16) acetone	6.183	58	2475	2.81	ppb		88
22) trans-1,2-dichloroethene	7.467	96	111603	27.52	ppb		96
37) cis-1,2-dichloroethene	8.290	96	7171793	1673.50	ppb		96
51) trichloroethene	10.266	95	5448	1.53	ppb		79

(#) = qualifier out of range (m) = manual integration (+) = signals summed

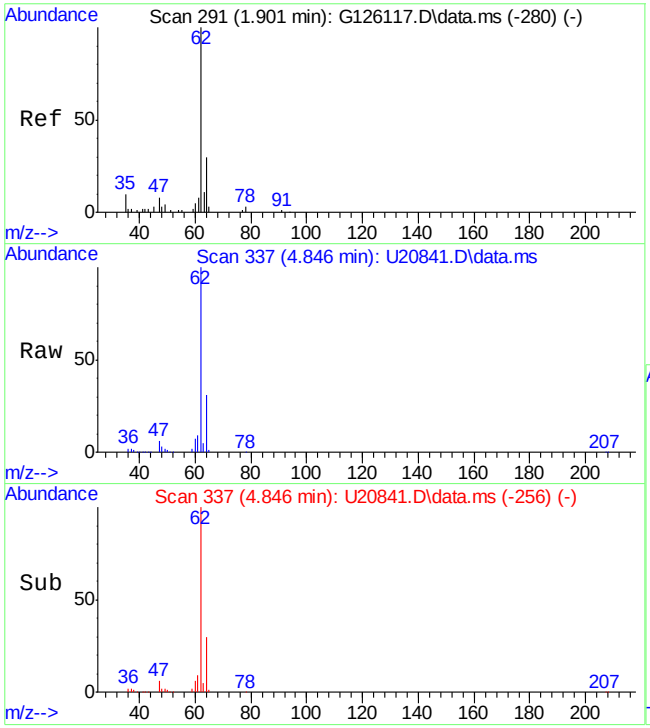
Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20841.D
Acq On : 3 Jul 2014 2:46 pm
Operator : GaryK
Sample : mc31799-9
Misc : ms32217,msu934,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 03 16:31:33 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration



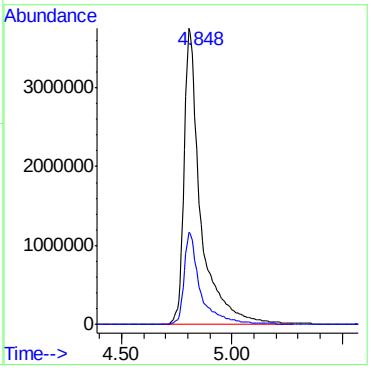
ACCUTEST LABORATORIES MC31799

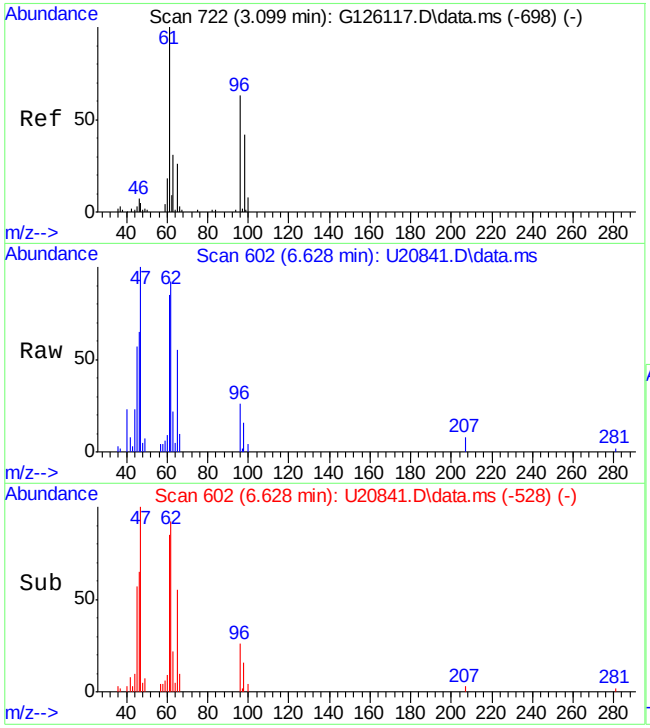


#7
vinyl chloride
Concen: 3301.09 ppb
RT: 4.848 min Scan# 337
Delta R.T. 0.049 min
Lab File: U20841.D
Acq: 3 Jul 2014 2:46 pm

Tgt Ion: 62 Resp:19564533

Ion	Ratio	Lower	Upper
62	100		
64	30.7	1.8	61.8

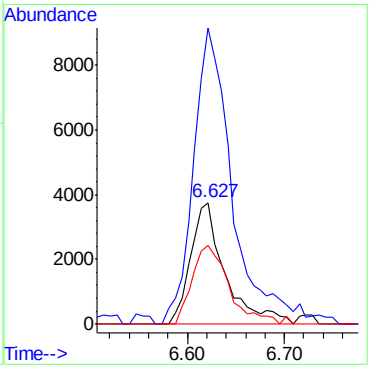


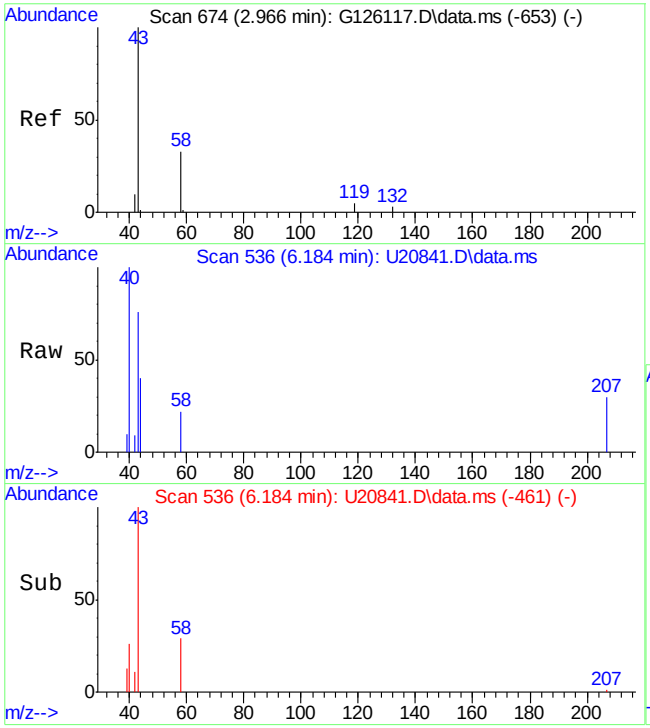


#15
1,1-dichloroethene
Concen: 2.60 ppb
RT: 6.627 min Scan# 602
Delta R.T. -0.002 min
Lab File: U20841.D
Acq: 3 Jul 2014 2:46 pm

Tgt Ion: 96 Resp: 9162

Ion	Ratio	Lower	Upper
96	100		
61	331.8	158.7	218.7#
63	85.4	27.6	87.6

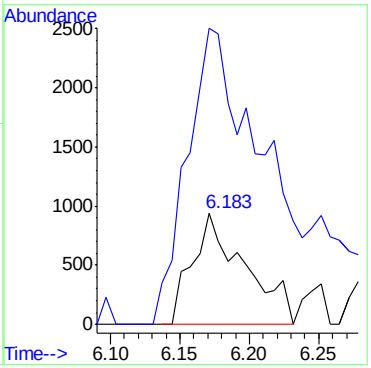


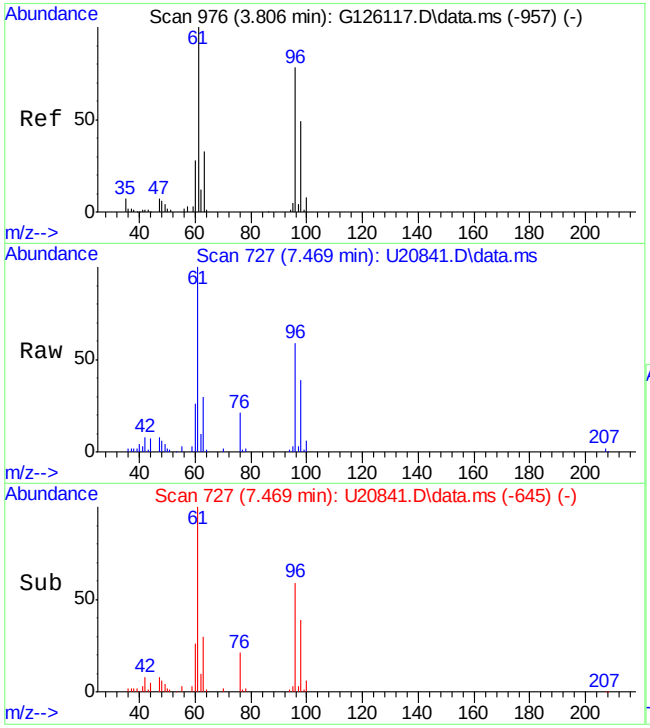


#16
acetone
Concen: 2.81 ppb
RT: 6.183 min Scan# 536
Delta R.T. 0.005 min
Lab File: U20841.D
Acq: 3 Jul 2014 2:46 pm

Tgt Ion: 58 Resp: 2475

Ion	Ratio	Lower	Upper
58	100		
43	284.8	278.8	338.8

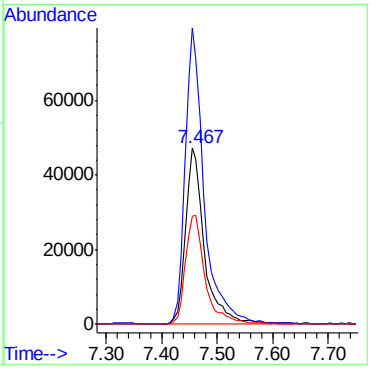


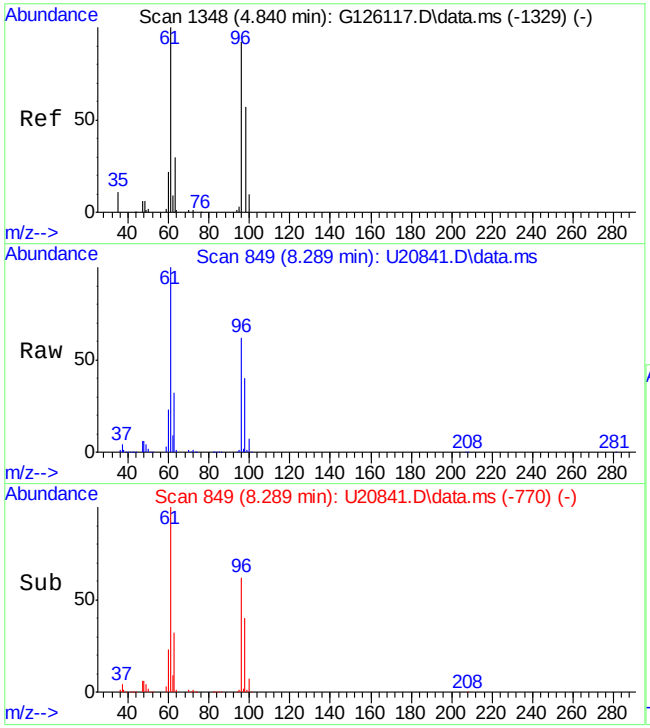


#22
trans-1,2-dichloroethene
Concen: 27.52 ppb
RT: 7.467 min Scan# 727
Delta R.T. -0.000 min
Lab File: U20841.D
Acq: 3 Jul 2014 2:46 pm

Tgt Ion: 96 Resp: 111603

Ion	Ratio	Lower	Upper
96	100		
61	168.9	145.5	205.5
98	66.4	35.2	95.2

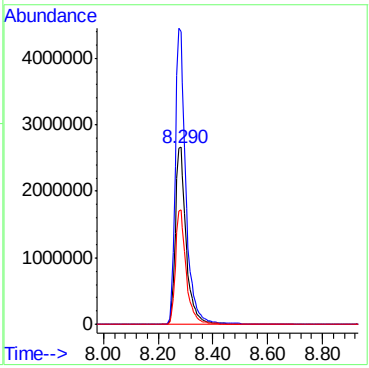


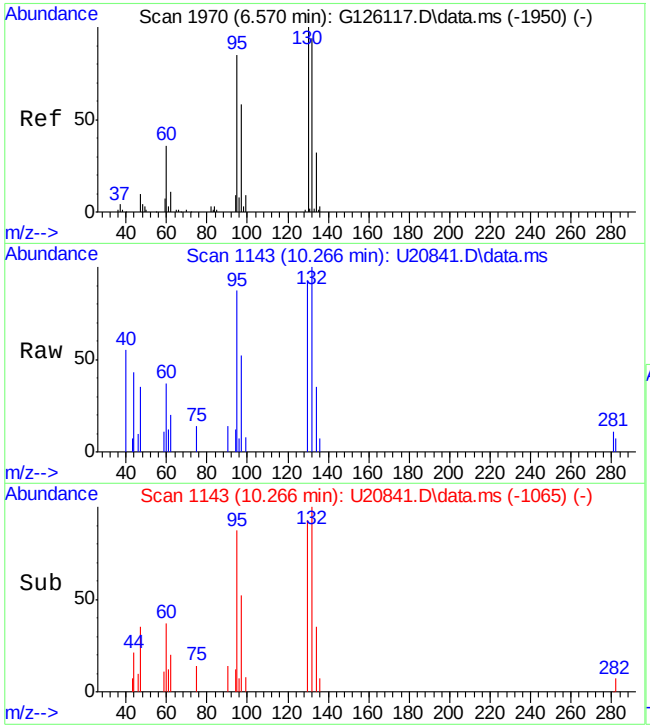


#37
cis-1,2-dichloroethene
Concen: 1673.50 ppb
RT: 8.290 min Scan# 849
Delta R.T. 0.001 min
Lab File: U20841.D
Acq: 3 Jul 2014 2:46 pm

Tgt Ion: 96 Resp: 7171793

Ion	Ratio	Lower	Upper
96	100		
61	162.4	126.3	186.3
98	64.7	36.2	96.2

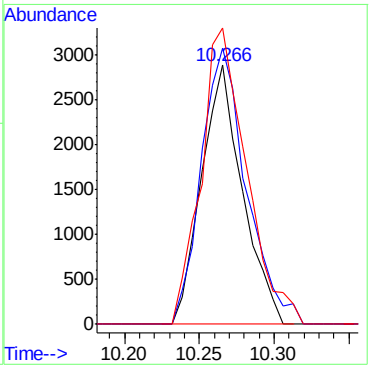




#51
trichloroethene
Concen: 1.53 ppb
RT: 10.266 min Scan# 1143
Delta R.T. 0.005 min
Lab File: U20841.D
Acq: 3 Jul 2014 2:46 pm

Tgt Ion: 95 Resp: 5448

Ion	Ratio	Lower	Upper
95	100		
130	106.9	58.8	118.8
132	114.5	62.5	122.5



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20950.D
Acq On : 8 Jul 2014 5:00 pm
Operator : GaryK
Sample : mc31799-9
Misc : ms32217,msu937,,,,5,100
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 09 07:41:09 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

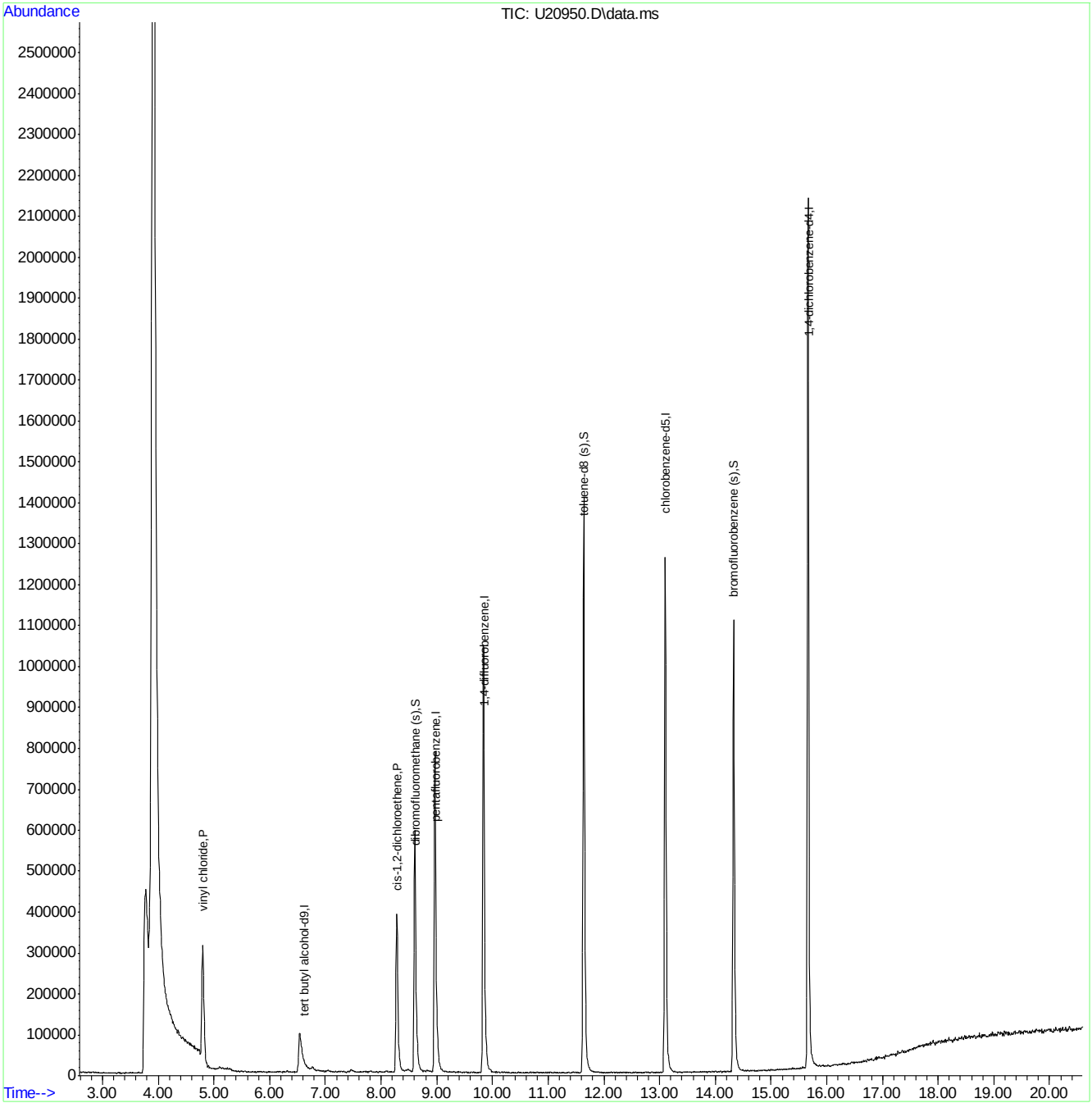
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.613	65	283693	50.00	ppb		0.02
4) pentafluorobenzene	8.979	168	662235	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.847	114	1048780	50.00	ppb		0.00
66) chlorobenzene-d5	13.105	82	401334	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.669	152	668720	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.616	113	439602	61.34	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 122.68%				
60) toluene-d8 (s)	11.644	98	1051394	52.56	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 105.12%				
82) bromofluorobenzene (s)	14.334	95	429221	50.67	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.34%				
Target Compounds							Qvalue
7) vinyl chloride	4.806	62	540562	42.97	ppb		97
37) cis-1,2-dichloroethene	8.291	96	192668	21.18	ppb		98

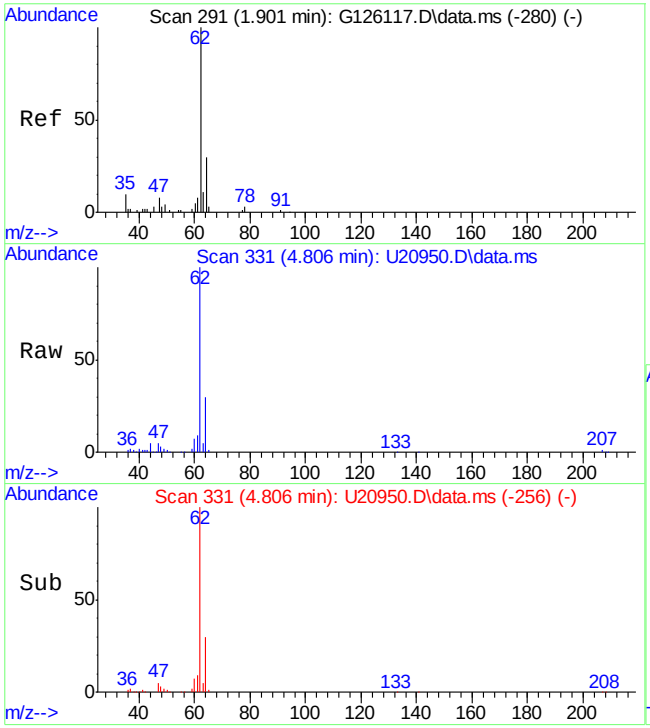
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20950.D
Acq On : 8 Jul 2014 5:00 pm
Operator : GaryK
Sample : mc31799-9
Misc : ms32217,msu937,,,,5,100
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 09 07:41:09 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

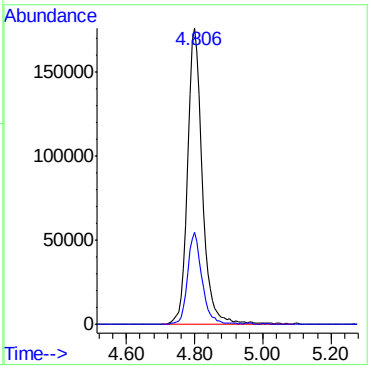


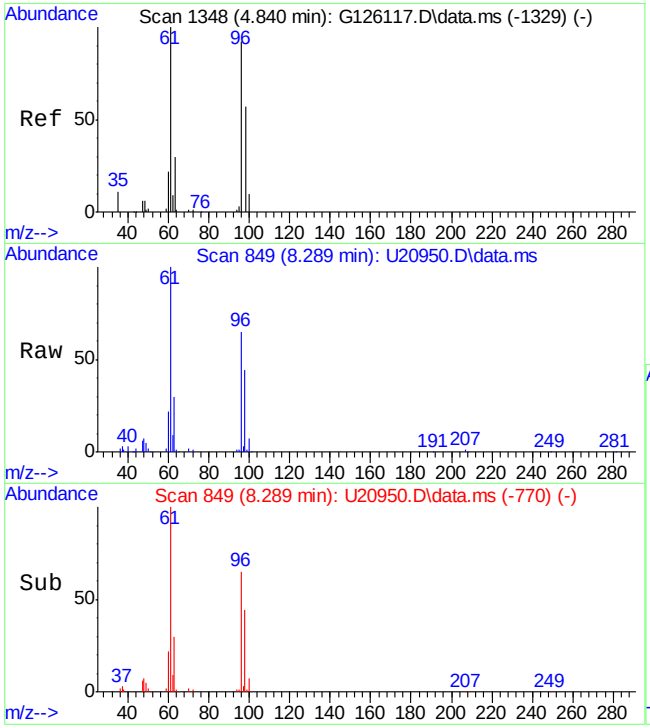


#7
vinyl chloride
Concen: 42.97 ppb
RT: 4.806 min Scan# 331
Delta R.T. 0.007 min
Lab File: U20950.D
Acq: 8 Jul 2014 5:00 pm

Tgt Ion: 62 Resp: 540562

Ion	Ratio	Lower	Upper
62	100		
64	30.3	1.8	61.8

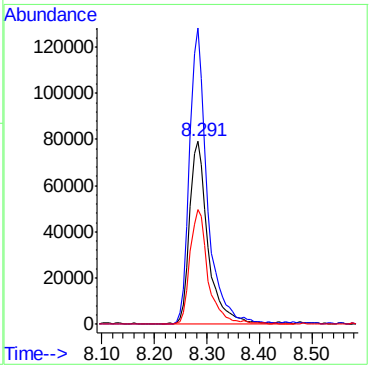




#37
cis-1,2-dichloroethene
Concen: 21.18 ppb
RT: 8.291 min Scan# 849
Delta R.T. 0.002 min
Lab File: U20950.D
Acq: 8 Jul 2014 5:00 pm

Tgt Ion: 96 Resp: 192668

Ion	Ratio	Lower	Upper
96	100		
61	153.8	126.3	186.3
98	67.2	36.2	96.2



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20936.D
Acq On : 8 Jul 2014 10:39 am
Operator : GaryK
Sample : mc31799-10
Misc : ms32230,msu937,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 08 11:27:43 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.594	65	319524	50.00	ppb		0.00
4) pentafluorobenzene	8.978	168	812719	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.846	114	1275912	50.00	ppb		0.00
66) chlorobenzene-d5	13.105	82	490683	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.667	152	773423	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.616	113	521755	59.32	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 118.64%				
60) toluene-d8 (s)	11.644	98	1276247	52.44	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 104.88%				
82) bromofluorobenzene (s)	14.334	95	515126	52.58	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 105.16%				
Target Compounds							Qvalue
7) vinyl chloride	4.807	62	601948	38.99	ppb		99
9) chloroethane	5.418	64	37676	5.35	ppb		95
16) acetone	6.190	58	3071	1.34	ppb	#	70
22) trans-1,2-dichloroethene	7.475	96	4286	0.41	ppb	#	73
37) cis-1,2-dichloroethene	8.292	96	365364	32.73	ppb		96
51) trichloroethene	10.268	95	16091	1.80	ppb		72

(#) = qualifier out of range (m) = manual integration (+) = signals summed

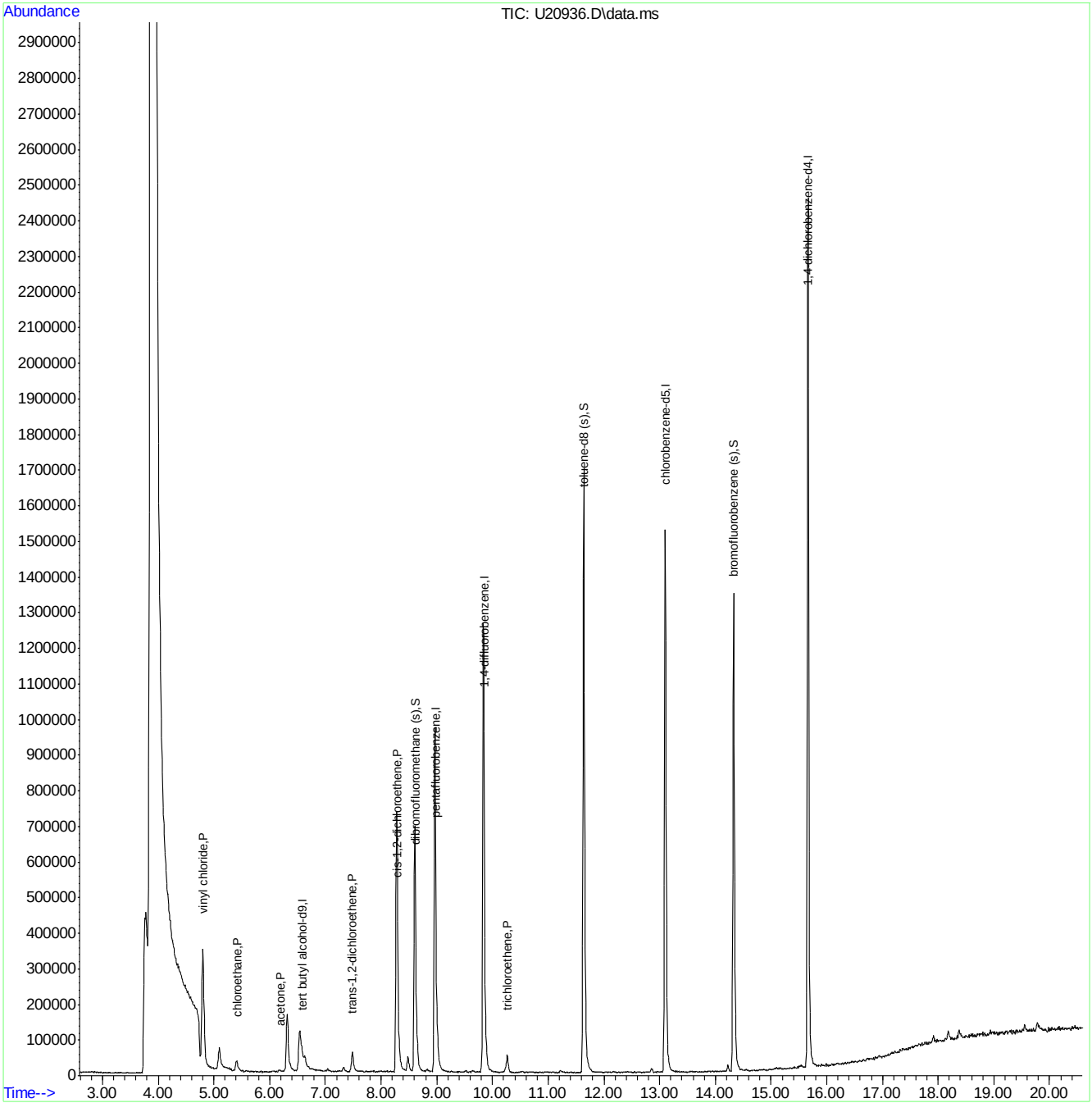
7.1.11

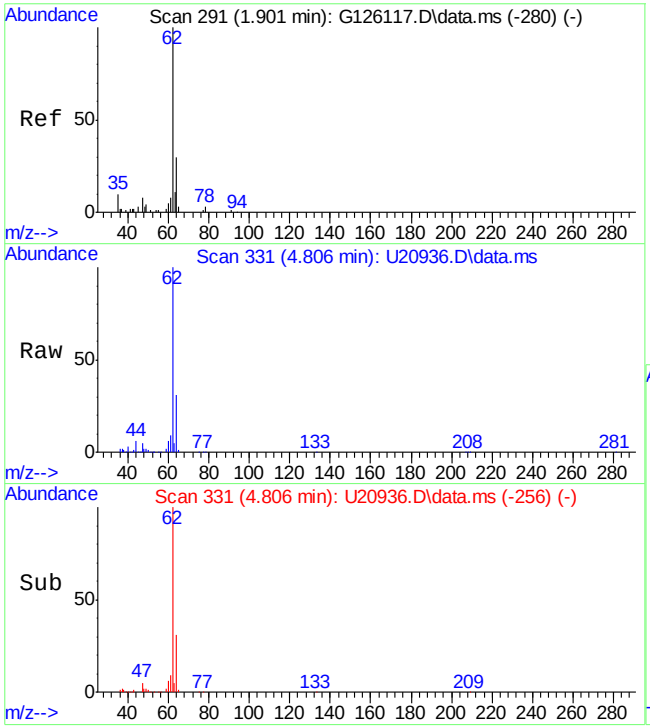
7

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20936.D
Acq On : 8 Jul 2014 10:39 am
Operator : GaryK
Sample : mc31799-10
Misc : ms32230,msu937,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 08 11:27:43 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

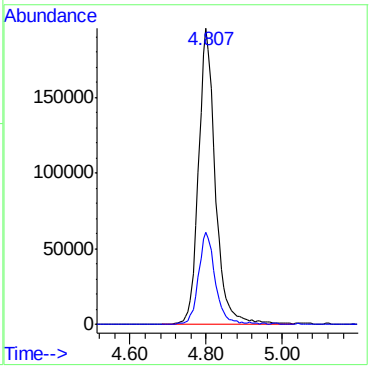


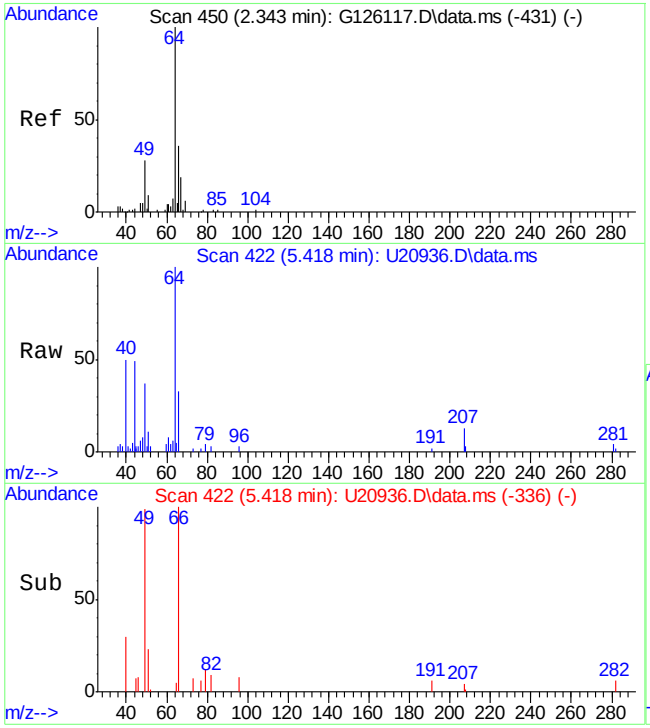


#7
vinyl chloride
Concen: 38.99 ppb
RT: 4.807 min Scan# 331
Delta R.T. 0.008 min
Lab File: U20936.D
Acq: 8 Jul 2014 10:39 am

Tgt Ion: 62 Resp: 601948

Ion	Ratio	Lower	Upper
62	100		
64	31.3	1.8	61.8

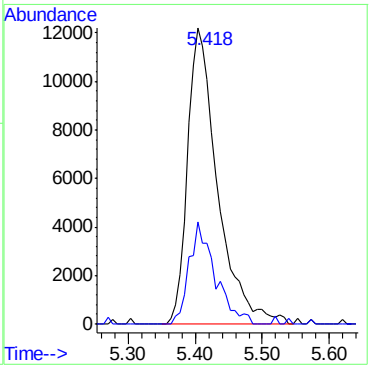


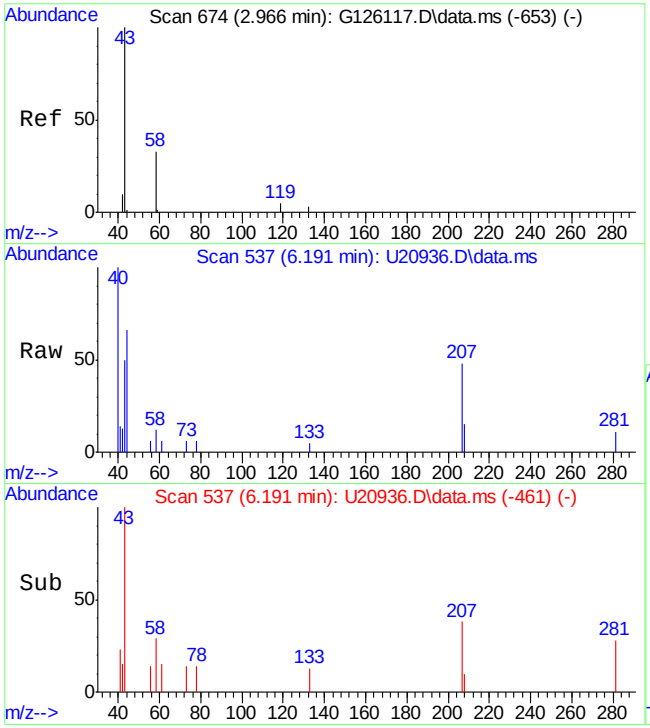


#9
chloroethane
Concen: 5.35 ppb
RT: 5.418 min Scan# 422
Delta R.T. 0.001 min
Lab File: U20936.D
Acq: 8 Jul 2014 10:39 am

Tgt Ion: 64 Resp: 37676

Ion	Ratio	Lower	Upper
64	100		
66	32.9	0.1	60.1

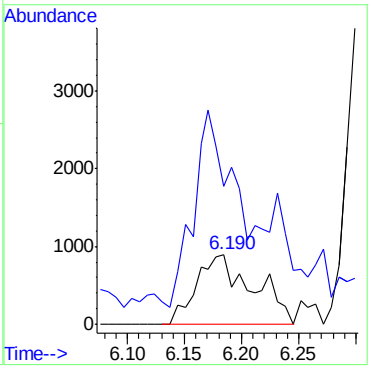


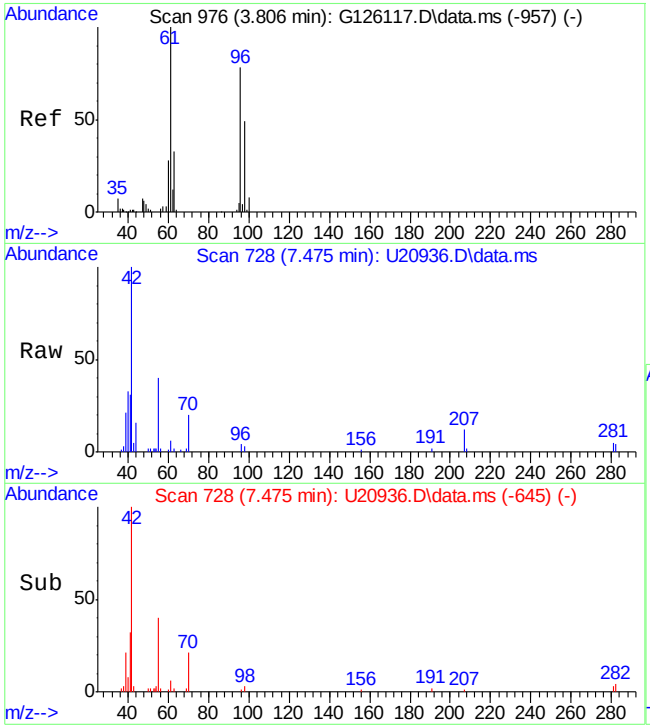


#16
acetone
Concen: 1.34 ppb
RT: 6.190 min Scan# 537
Delta R.T. 0.012 min
Lab File: U20936.D
Acq: 8 Jul 2014 10:39 am

Tgt Ion: 58 Resp: 3071

Ion	Ratio	Lower	Upper
58	100		
43	368.1	278.8	338.8#

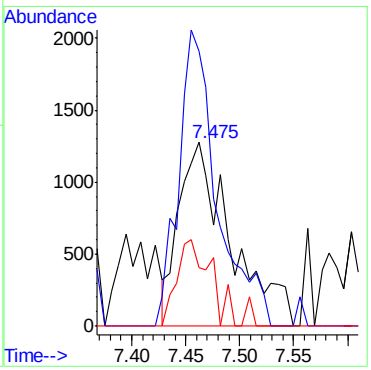


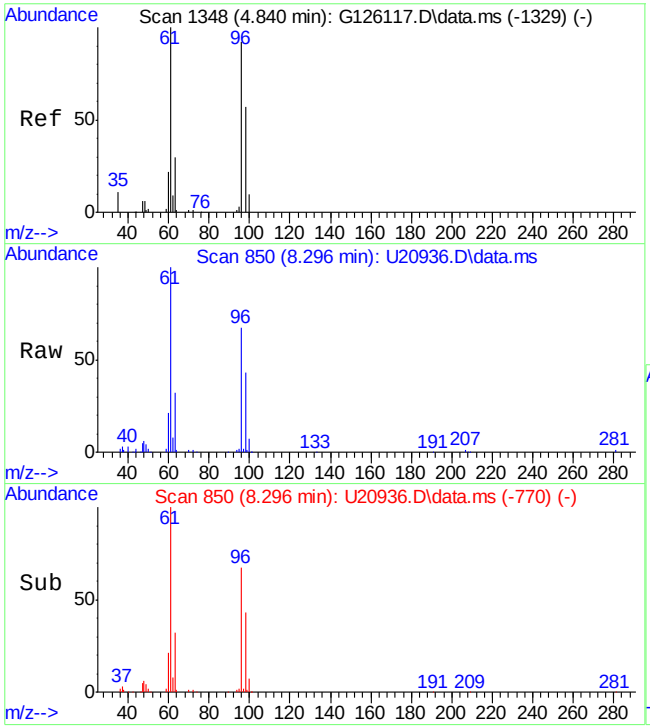


#22
trans-1,2-dichloroethene
Concen: 0.41 ppb
RT: 7.475 min Scan# 728
Delta R.T. 0.008 min
Lab File: U20936.D
Acq: 8 Jul 2014 10:39 am

Tgt Ion: 96 Resp: 4286

Ion	Ratio	Lower	Upper
96	100		
61	125.2	145.5	205.5#
98	68.2	35.2	95.2

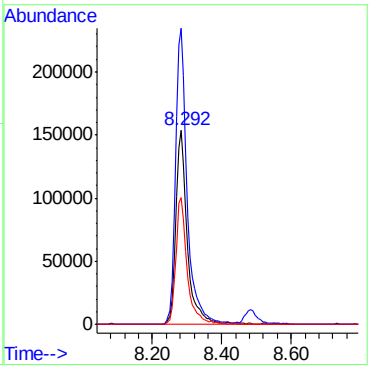


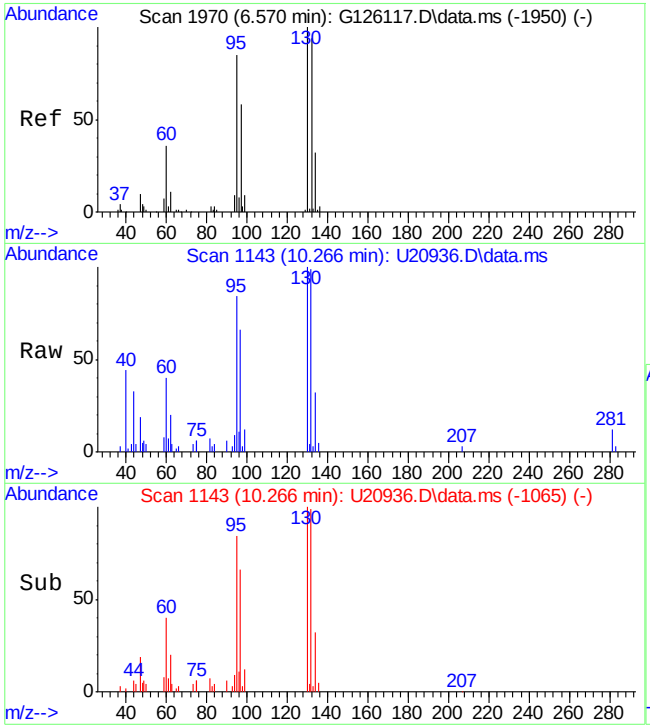


#37
cis-1,2-dichloroethene
Concen: 32.73 ppb
RT: 8.292 min Scan# 850
Delta R.T. 0.003 min
Lab File: U20936.D
Acq: 8 Jul 2014 10:39 am

Tgt Ion: 96 Resp: 365364

Ion	Ratio	Lower	Upper
96	100		
61	149.6	126.3	186.3
98	64.1	36.2	96.2

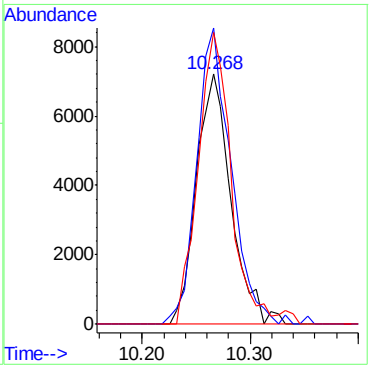




#51
trichloroethene
Concen: 1.80 ppb
RT: 10.268 min Scan# 1143
Delta R.T. 0.007 min
Lab File: U20936.D
Acq: 8 Jul 2014 10:39 am

Tgt Ion: 95 Resp: 16091

Ion	Ratio	Lower	Upper
95	100		
130	118.4	58.8	118.8
132	116.8	62.5	122.5



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20843.D
Acq On : 3 Jul 2014 3:40 pm
Operator : GaryK
Sample : mc31799-11
Misc : ms32217,msu934,,,,5,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 03 16:33:50 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

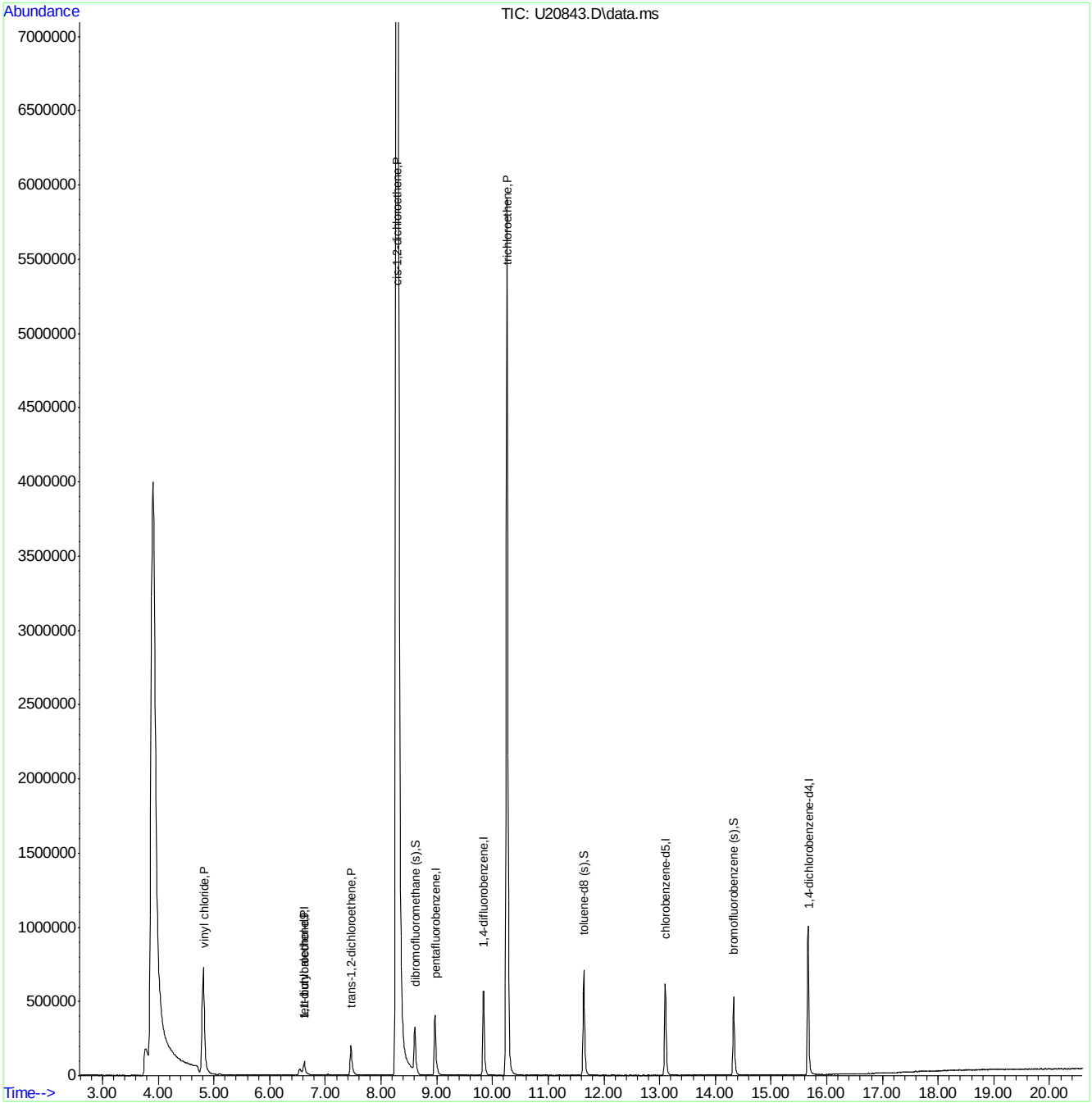
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.613	65	125602	50.00	ppb	0.02
4) pentafluorobenzene	8.977	168	336356	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.844	114	556122	50.00	ppb	0.00
66) chlorobenzene-d5	13.105	82	199761	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.668	152	321643	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.614	113	217048	59.62	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 119.24%			
60) toluene-d8 (s)	11.644	98	533567	50.30	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.60%			
82) bromofluorobenzene (s)	14.334	95	209257	51.36	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.72%			
Target Compounds						Qvalue
7) vinyl chloride	4.817	62	1462301	228.87	ppb	97
15) 1,1-dichloroethene	6.631	96	41465	10.90	ppb	98
22) trans-1,2-dichloroethene	7.469	96	91438	20.91	ppb	92
37) cis-1,2-dichloroethene	8.292	96	14632993	3167.40	ppb	96
51) trichloroethene	10.262	95	2006066	515.57	ppb	71

(#) = qualifier out of range (m) = manual integration (+) = signals summed

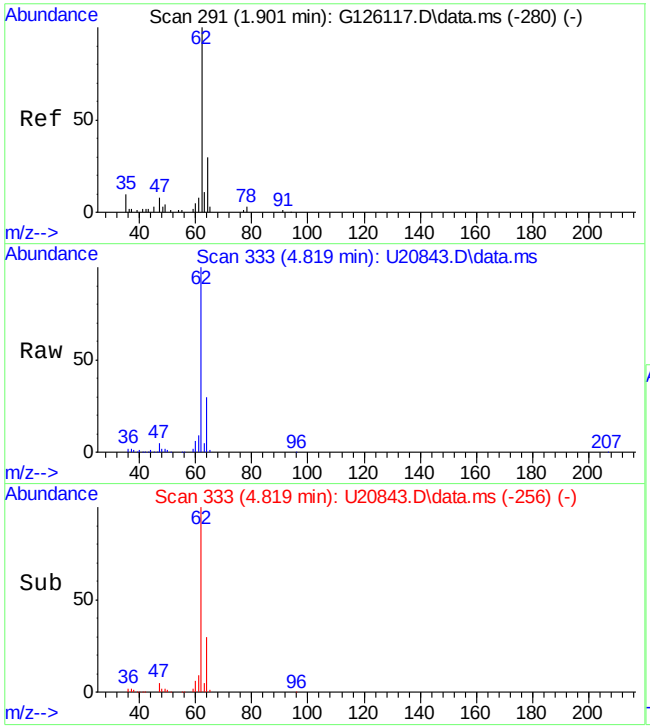
Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20843.D
Acq On : 3 Jul 2014 3:40 pm
Operator : GaryK
Sample : mc31799-11
Misc : ms32217,msu934,,,,5,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 03 16:33:50 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration



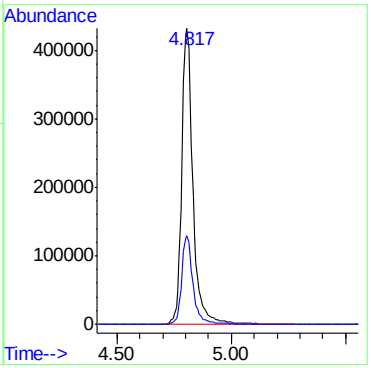
U140606W.m Thu Jul 03 16:34:50 2014 Page: 2

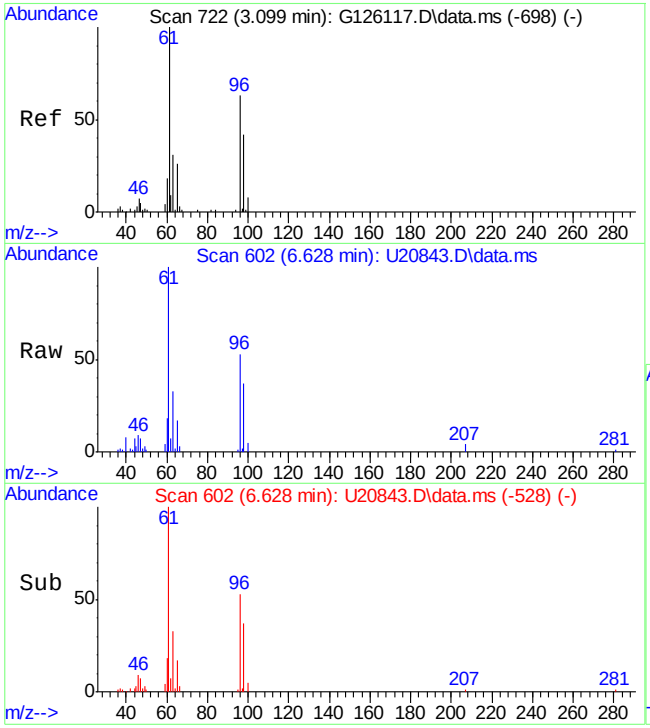


#7
vinyl chloride
Concen: 228.87 ppb
RT: 4.817 min Scan# 333
Delta R.T. 0.018 min
Lab File: U20843.D
Acq: 3 Jul 2014 3:40 pm

Tgt Ion: 62 Resp: 1462301

Ion	Ratio	Lower	Upper
62	100		
64	30.0	1.8	61.8

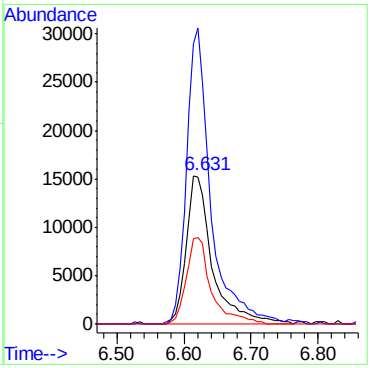


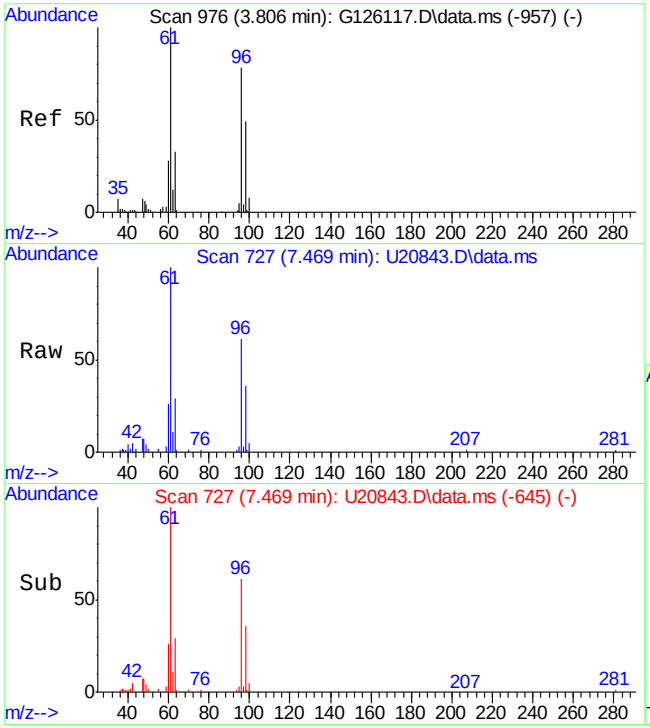


#15
1,1-dichloroethene
Concen: 10.90 ppb
RT: 6.631 min Scan# 602
Delta R.T. 0.002 min
Lab File: U20843.D
Acq: 3 Jul 2014 3:40 pm

Tgt Ion: 96 Resp: 41465

Ion	Ratio	Lower	Upper
96	100		
61	187.5	158.7	218.7
63	62.3	27.6	87.6

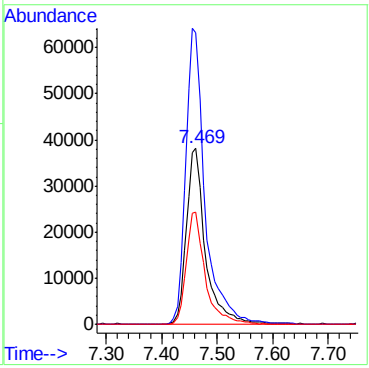


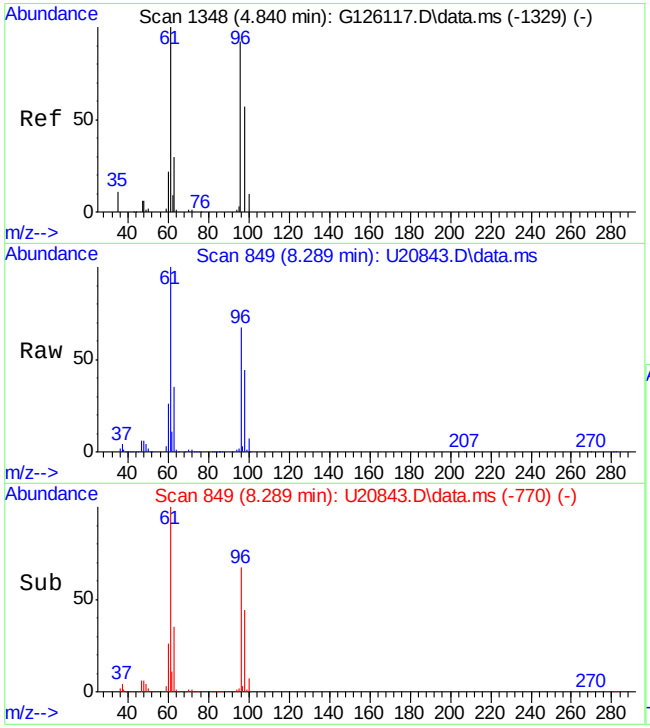


#22
trans-1,2-dichloroethene
Concen: 20.91 ppb
RT: 7.469 min Scan# 727
Delta R.T. 0.002 min
Lab File: U20843.D
Acq: 3 Jul 2014 3:40 pm

Tgt Ion: 96 Resp: 91438

Ion	Ratio	Lower	Upper
96	100		
61	163.9	145.5	205.5
98	59.3	35.2	95.2

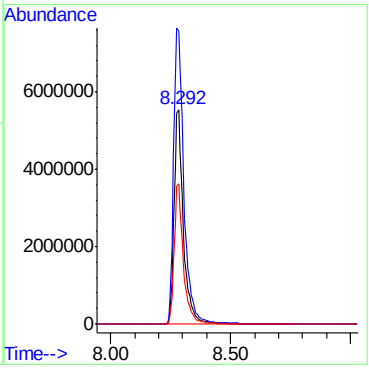


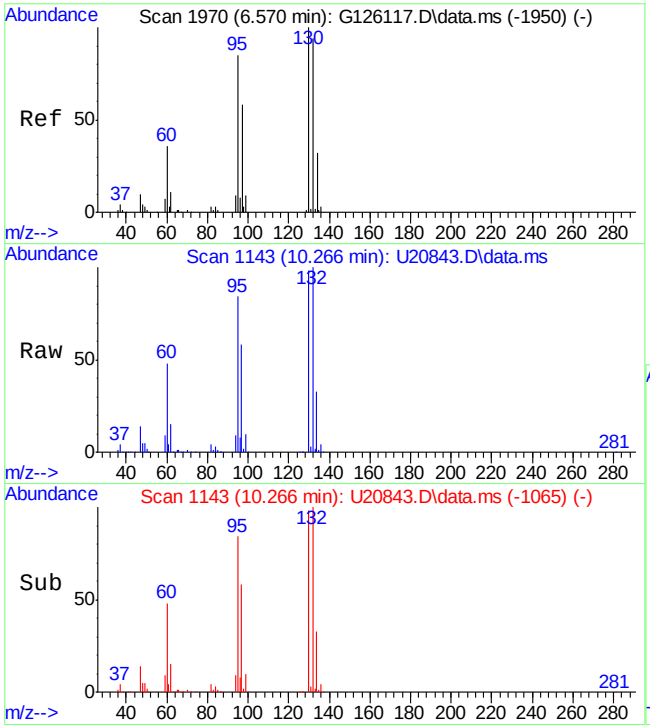


#37
cis-1,2-dichloroethene
Concen: 3167.40 ppb
RT: 8.292 min Scan# 849
Delta R.T. 0.003 min
Lab File: U20843.D
Acq: 3 Jul 2014 3:40 pm

Tgt Ion: 96 Resp:14632993

Ion	Ratio	Lower	Upper
96	100		
61	148.9	126.3	186.3
98	65.3	36.2	96.2

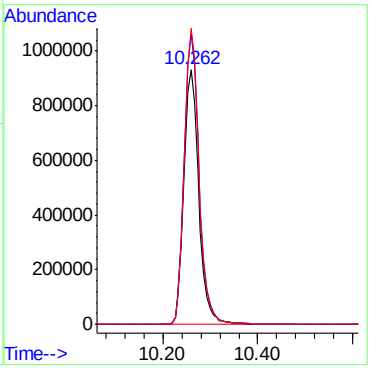




#51
trichloroethene
Concen: 515.57 ppb
RT: 10.262 min Scan# 1143
Delta R.T. 0.001 min
Lab File: U20843.D
Acq: 3 Jul 2014 3:40 pm

Tgt Ion: 95 Resp: 2006066

Ion	Ratio	Lower	Upper
95	100		
130	116.7	58.8	118.8
132	119.5	62.5	122.5



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20951.D
Acq On : 8 Jul 2014 5:27 pm
Operator : GaryK
Sample : mc31799-11
Misc : ms32217,msu937,,,,5,100
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 09 07:42:18 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

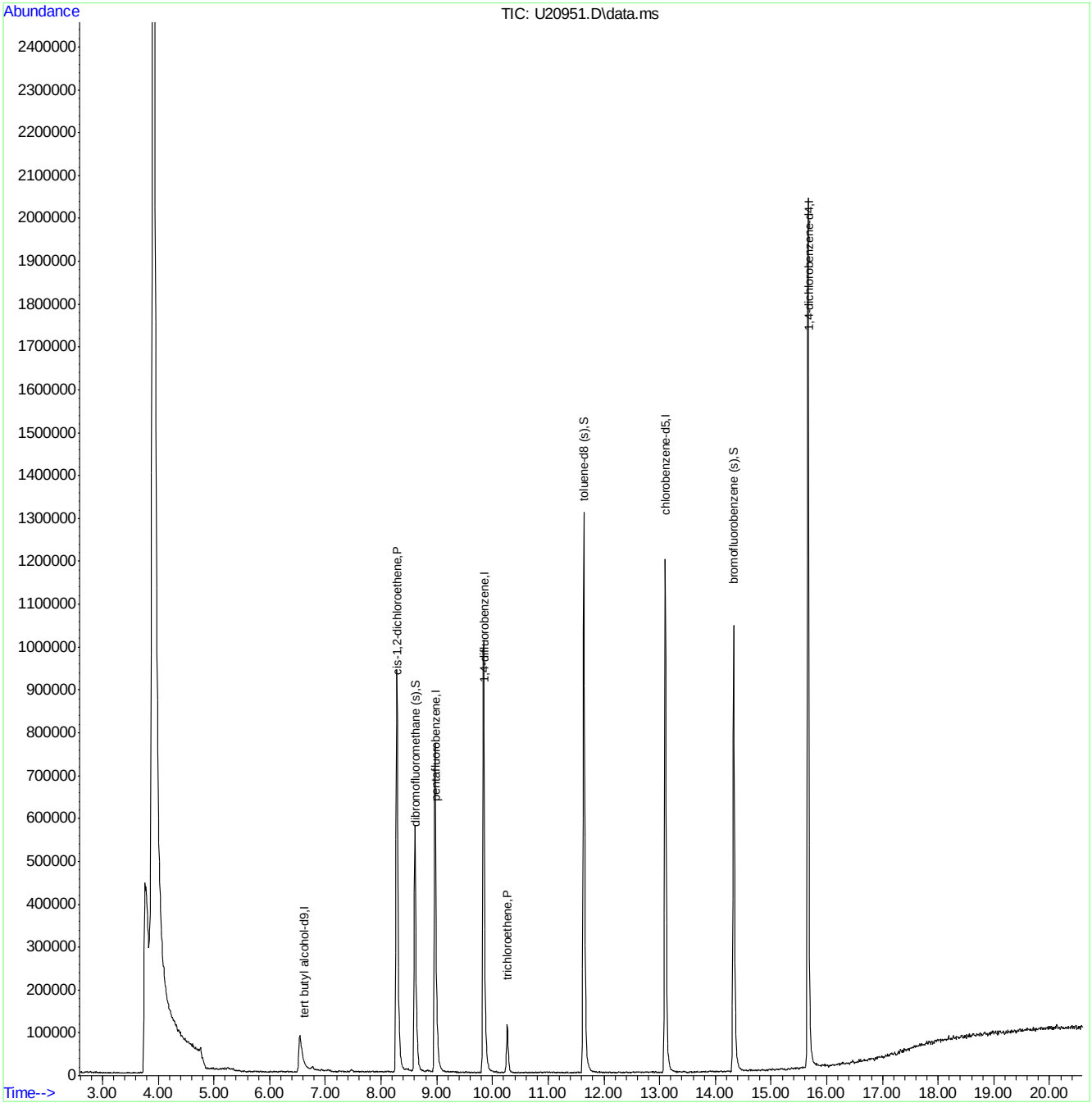
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.618	65	253849	50.00	ppb		0.02
4) pentafluorobenzene	8.980	168	639714	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.847	114	1000708	50.00	ppb		0.00
66) chlorobenzene-d5	13.106	82	381332	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.669	152	639114	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.618	113	429559	62.04	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 124.08%				
60) toluene-d8 (s)	11.646	98	992893	52.02	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 104.04%				
82) bromofluorobenzene (s)	14.335	95	407073	50.28	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.56%				
Target Compounds							Qvalue
37) cis-1,2-dichloroethene	8.292	96	458062	52.13	ppb		99
51) trichloroethene	10.269	95	40125	5.73	ppb	#	68

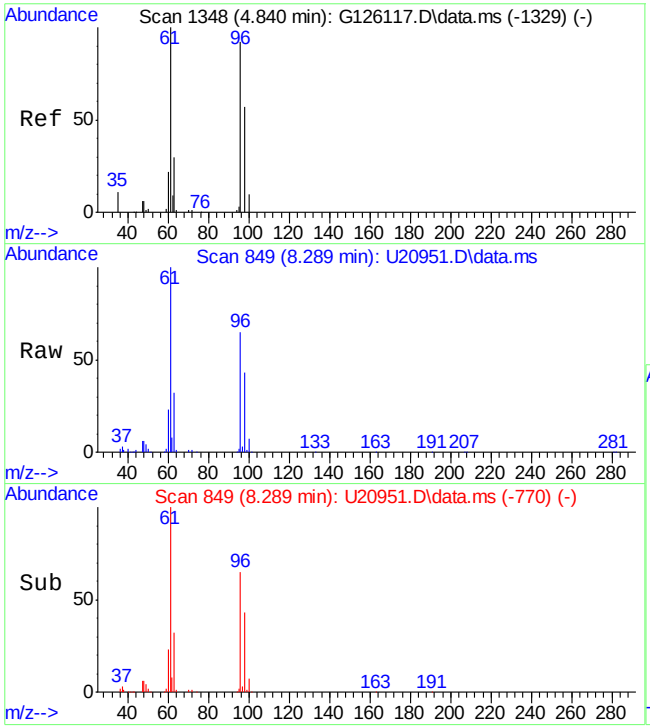
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20951.D
Acq On : 8 Jul 2014 5:27 pm
Operator : GaryK
Sample : mc31799-11
Misc : ms32217,msu937,,,,5,100
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 09 07:42:18 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

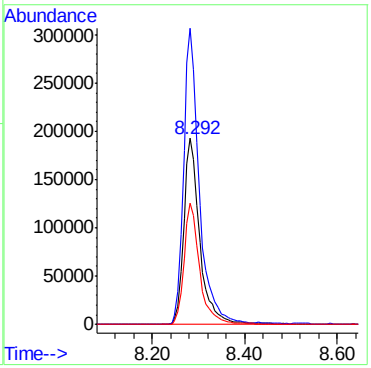


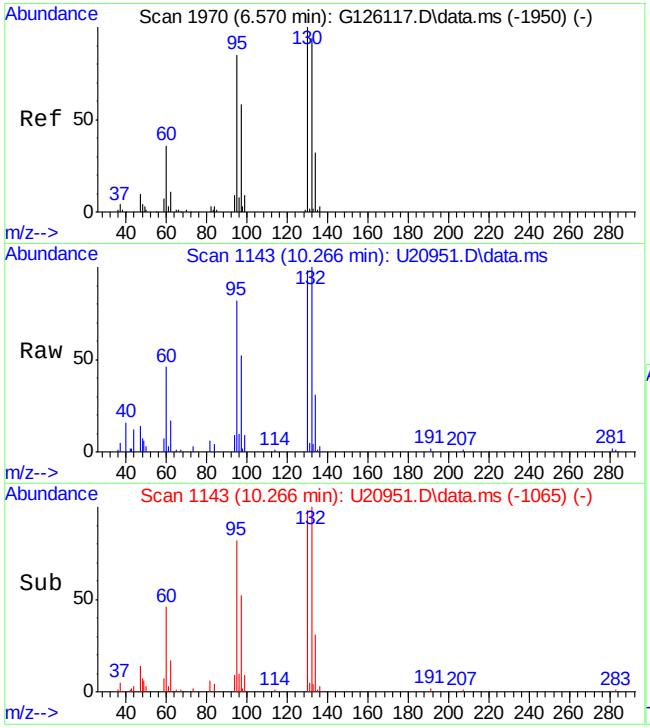


#37
cis-1,2-dichloroethene
Concen: 52.13 ppb
RT: 8.292 min Scan# 849
Delta R.T. 0.003 min
Lab File: U20951.D
Acq: 8 Jul 2014 5:27 pm

Tgt Ion: 96 Resp: 458062

Ion	Ratio	Lower	Upper
96	100		
61	154.4	126.3	186.3
98	66.1	36.2	96.2

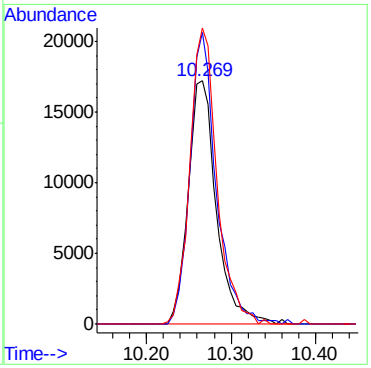




#51
trichloroethene
Concen: 5.73 ppb
RT: 10.269 min Scan# 1143
Delta R.T. 0.008 min
Lab File: U20951.D
Acq: 8 Jul 2014 5:27 pm

Tgt Ion: 95 Resp: 40125

Ion	Ratio	Lower	Upper
95	100		
130	119.8	58.8	118.8#
132	121.7	62.5	122.5



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20844.D
Acq On : 3 Jul 2014 4:07 pm
Operator : GaryK
Sample : mc31799-12
Misc : ms32217,msu934,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 03 16:35:38 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

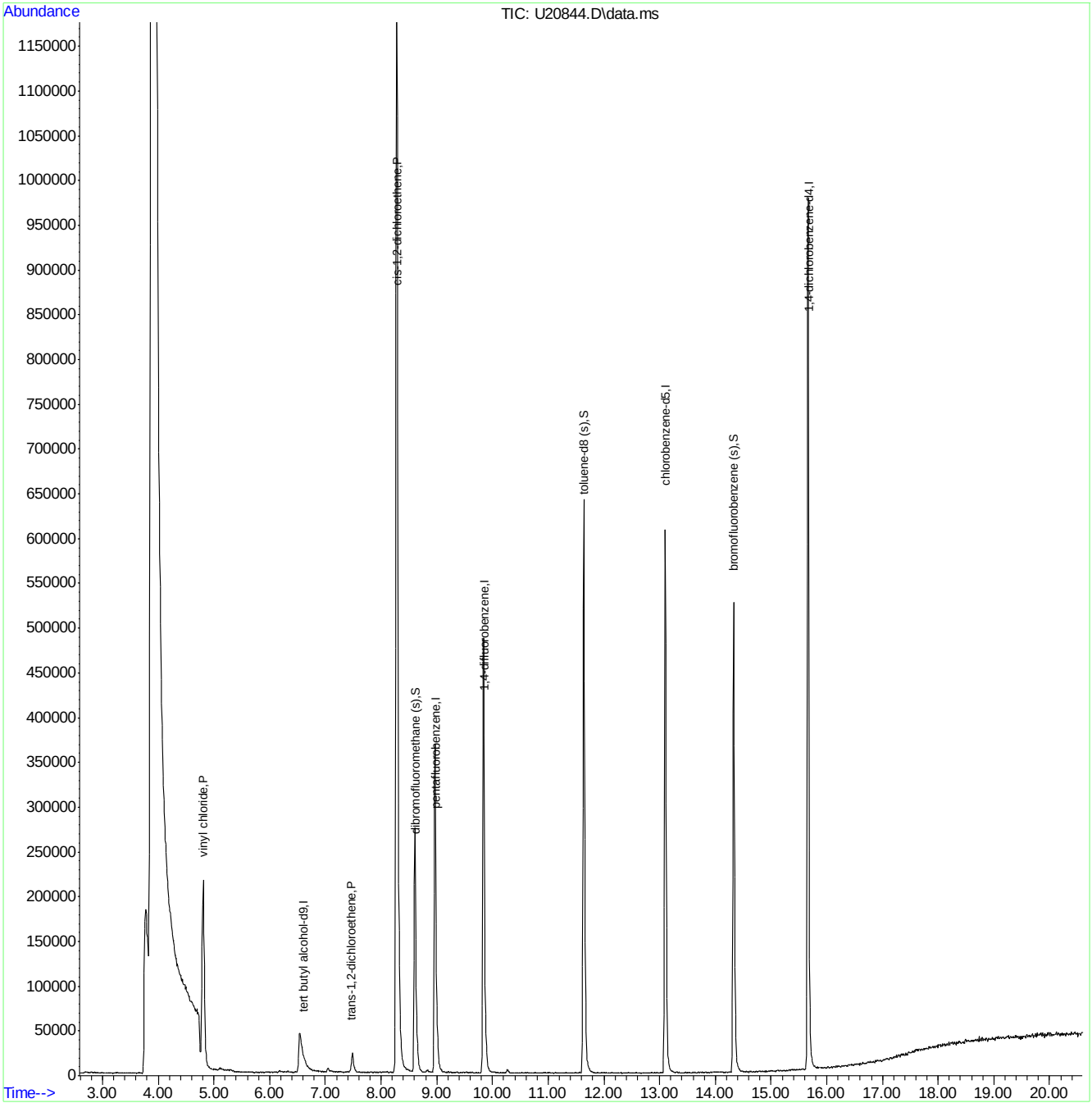
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.608	65	140440	50.00	ppb		0.01
4) pentafluorobenzene	8.979	168	313407	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.847	114	496609	50.00	ppb		0.00
66) chlorobenzene-d5	13.105	82	191602	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.668	152	318095	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.617	113	208809	61.56	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 123.12%				
60) toluene-d8 (s)	11.645	98	494292	52.18	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 104.36%				
82) bromofluorobenzene (s)	14.334	95	207661	51.54	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.08%				
Target Compounds							Qvalue
7) vinyl chloride	4.811	62	398379	66.92	ppb		97
22) trans-1,2-dichloroethene	7.465	96	2609	0.64	ppb	#	68
37) cis-1,2-dichloroethene	8.291	96	644287	149.67	ppb		98

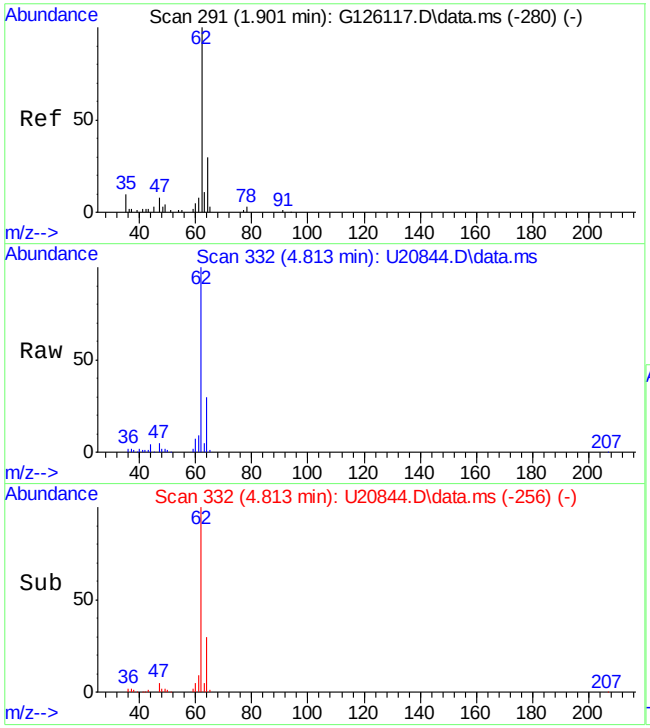
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20844.D
Acq On : 3 Jul 2014 4:07 pm
Operator : GaryK
Sample : mc31799-12
Misc : ms32217,msu934,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 03 16:35:38 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

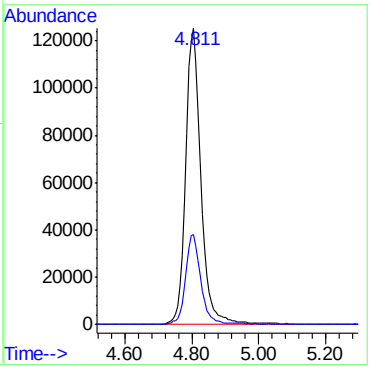


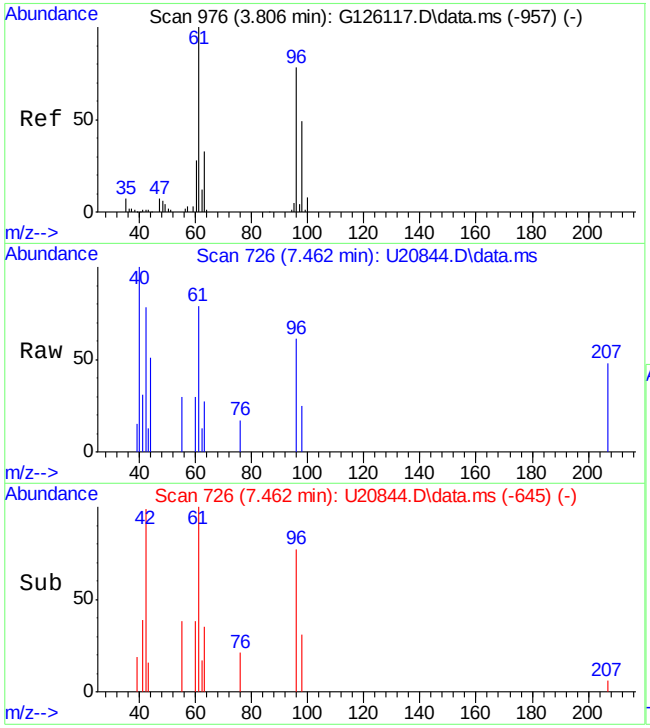


#7
vinyl chloride
Concen: 66.92 ppb
RT: 4.811 min Scan# 332
Delta R.T. 0.012 min
Lab File: U20844.D
Acq: 3 Jul 2014 4:07 pm

Tgt Ion: 62 Resp: 398379

Ion	Ratio	Lower	Upper
62	100		
64	30.1	1.8	61.8

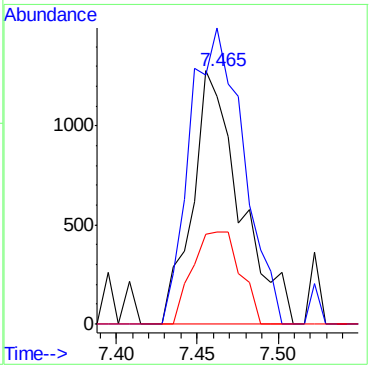


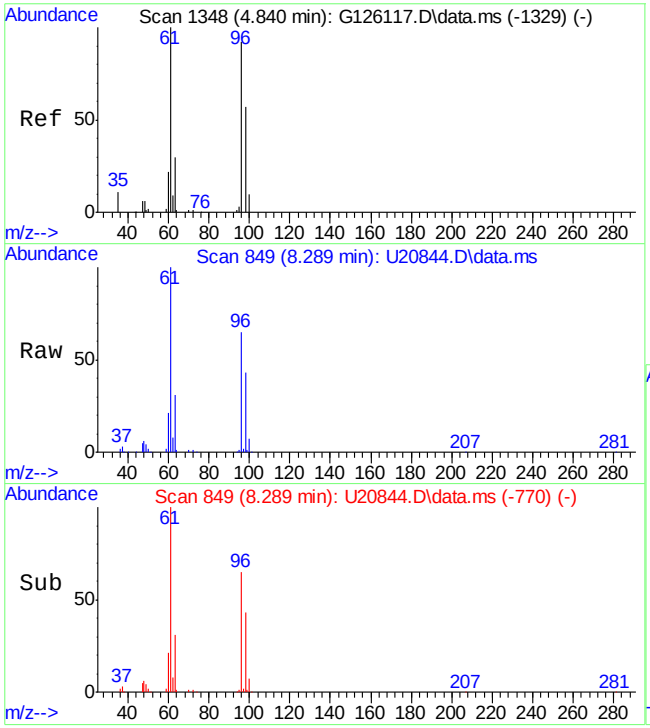


#22
trans-1,2-dichloroethene
Concen: 0.64 ppb
RT: 7.465 min Scan# 726
Delta R.T. -0.002 min
Lab File: U20844.D
Acq: 3 Jul 2014 4:07 pm

Tgt Ion: 96 Resp: 2609

Ion	Ratio	Lower	Upper
96	100		
61	129.9	145.5	205.5#
98	40.6	35.2	95.2

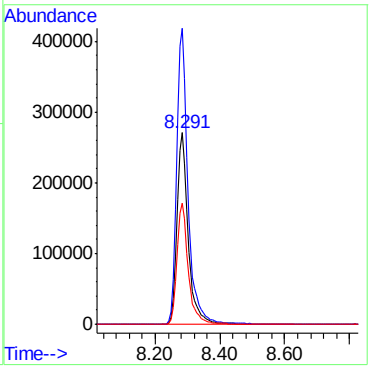




#37
cis-1,2-dichloroethene
Concen: 149.67 ppb
RT: 8.291 min Scan# 849
Delta R.T. 0.002 min
Lab File: U20844.D
Acq: 3 Jul 2014 4:07 pm

Tgt Ion: 96 Resp: 644287

Ion	Ratio	Lower	Upper
96	100		
61	153.3	126.3	186.3
98	65.4	36.2	96.2



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20845.D
Acq On : 3 Jul 2014 4:34 pm
Operator : GaryK
Sample : mc31799-13
Misc : ms32217,msu934,,,,5,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 05 09:19:08 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

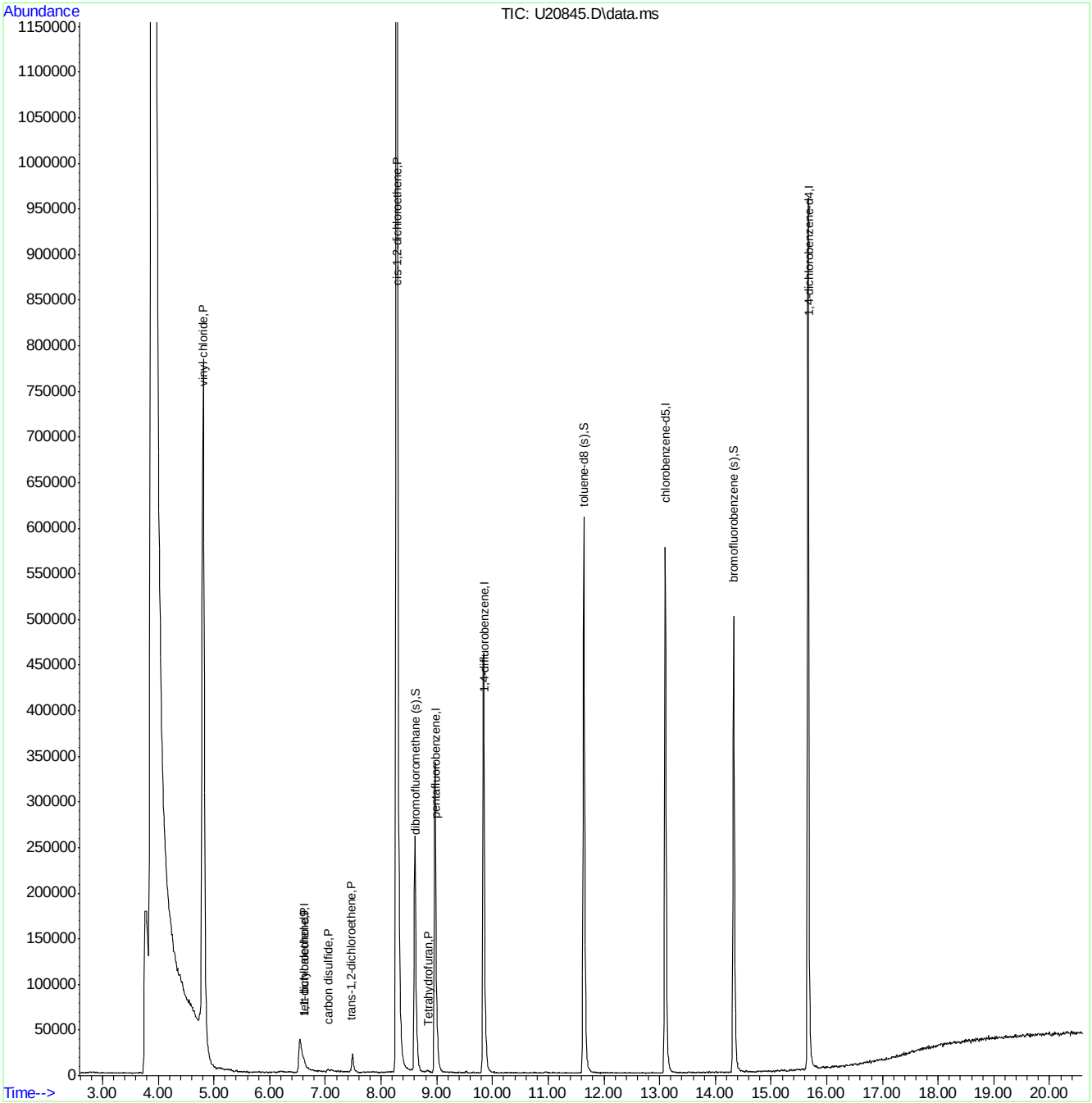
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.623	65	119701	50.00	ppb		0.03
4) pentafluorobenzene	8.980	168	291018	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.848	114	468235	50.00	ppb		0.00
66) chlorobenzene-d5	13.106	82	182055	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.669	152	300356	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.617	113	197653	62.76	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 125.52%				
60) toluene-d8 (s)	11.646	98	471706	52.81	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 105.62%				
82) bromofluorobenzene (s)	14.334	95	198761	52.24	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 104.48%				
Target Compounds							Qvalue
7) vinyl chloride	4.814	62	1527010	276.24	ppb		96
15) 1,1-dichloroethene	6.626	96	1423	0.43	ppb		87
22) trans-1,2-dichloroethene	7.466	96	1158	0.31	ppb	#	64
24) carbon disulfide	7.050	76	4909	0.50	ppb		78
37) cis-1,2-dichloroethene	8.292	96	875447	219.02	ppb		98
41) Tetrahydrofuran	8.841	42	2936	2.54	ppb		91

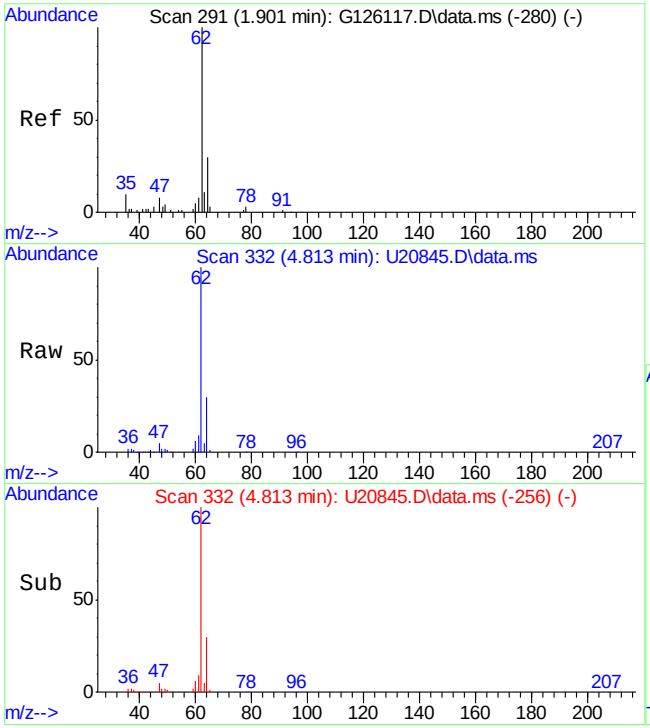
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20845.D
Acq On : 3 Jul 2014 4:34 pm
Operator : GaryK
Sample : mc31799-13
Misc : ms32217,msu934,,,,5,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 05 09:19:08 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

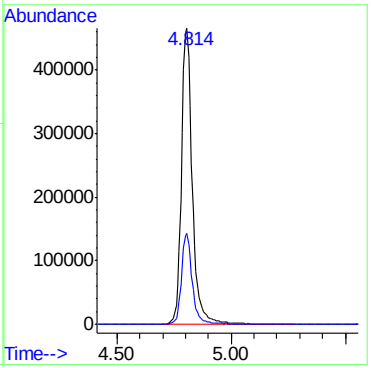


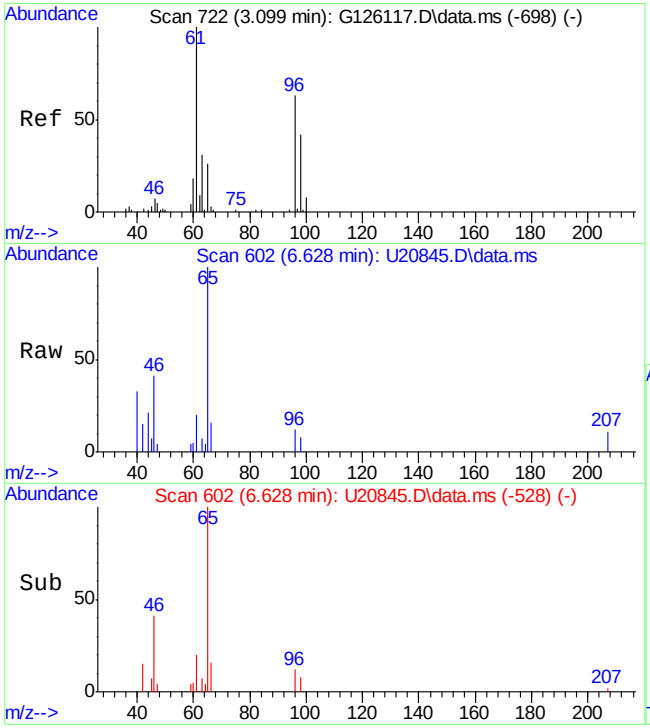


#7
vinyl chloride
Concen: 276.24 ppb
RT: 4.814 min Scan# 332
Delta R.T. 0.015 min
Lab File: U20845.D
Acq: 3 Jul 2014 4:34 pm

Tgt Ion: 62 Resp: 1527010

Ion	Ratio	Lower	Upper
62	100		
64	29.8	1.8	61.8

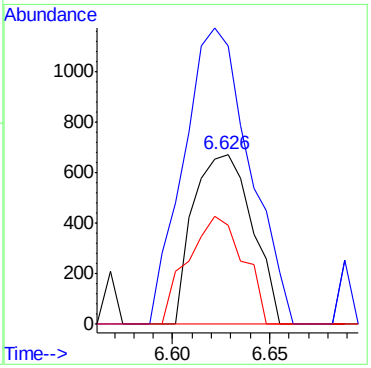


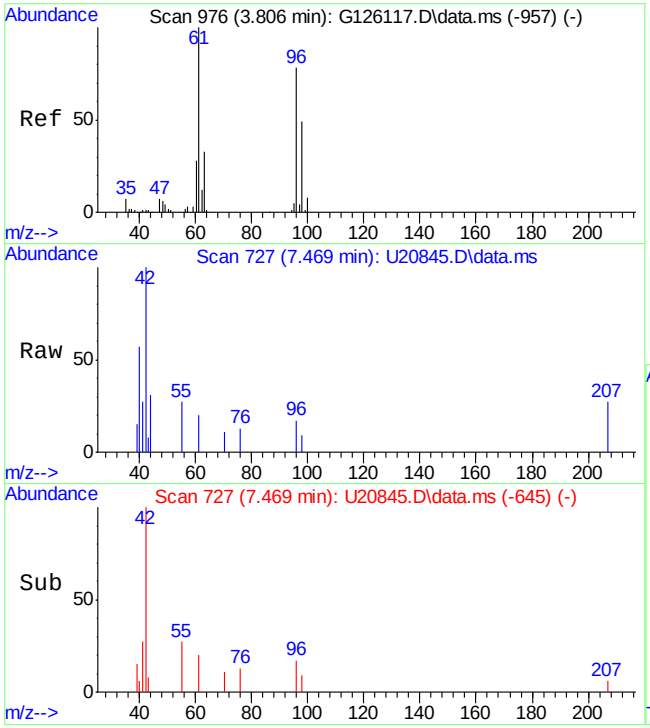


#15
1,1-dichloroethene
Concen: 0.43 ppb
RT: 6.626 min Scan# 602
Delta R.T. -0.003 min
Lab File: U20845.D
Acq: 3 Jul 2014 4:34 pm

Tgt Ion: 96 Resp: 1423

Ion	Ratio	Lower	Upper
96	100		
61	163.6	158.7	218.7
63	58.5	27.6	87.6

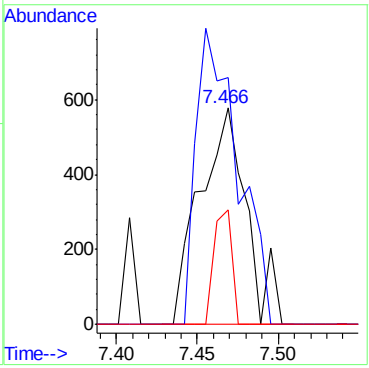


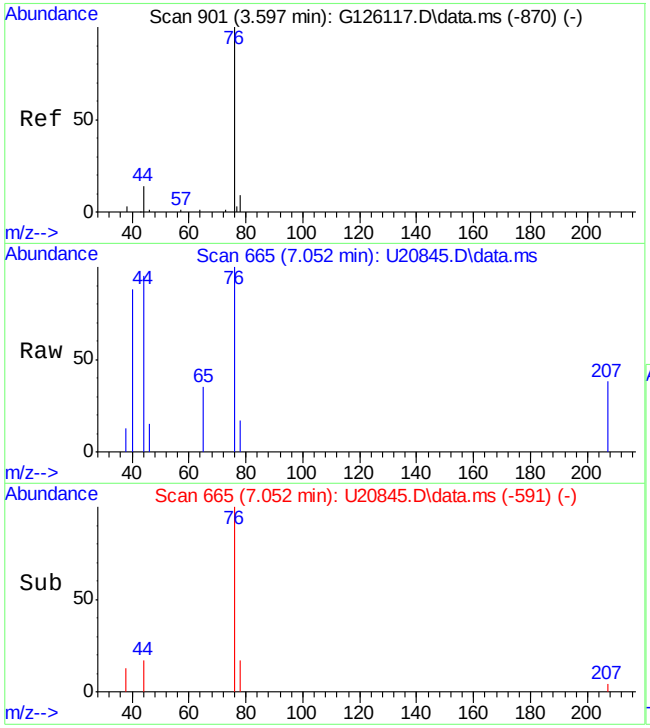


#22
trans-1,2-dichloroethene
Concen: 0.31 ppb
RT: 7.466 min Scan# 727
Delta R.T. -0.001 min
Lab File: U20845.D
Acq: 3 Jul 2014 4:34 pm

Tgt Ion: 96 Resp: 1158

Ion	Ratio	Lower	Upper
96	100		
61	114.2	145.5	205.5#
98	53.1	35.2	95.2

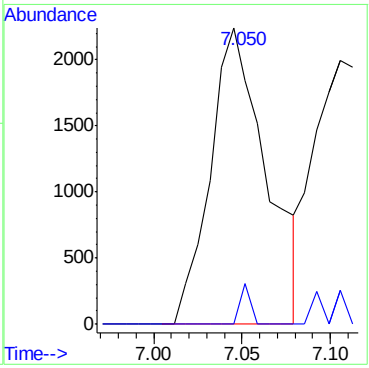


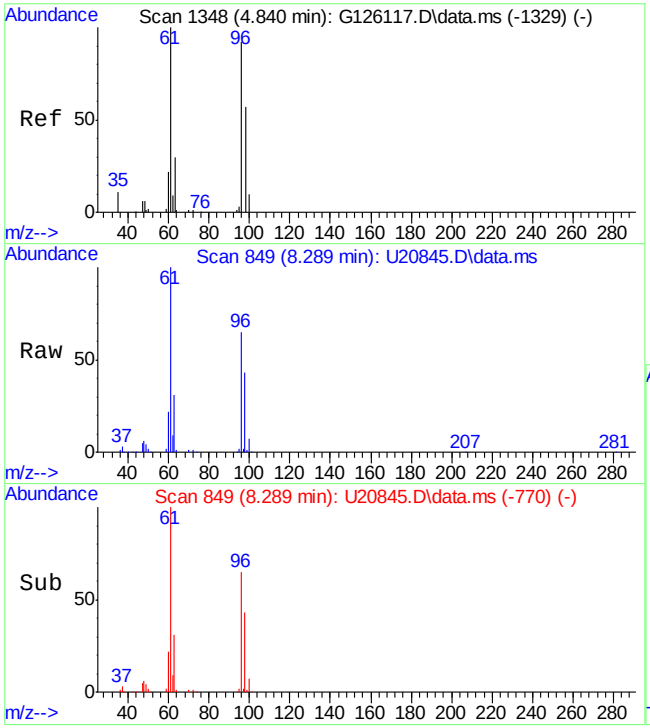


#24
carbon disulfide
Concen: 0.50 ppb
RT: 7.050 min Scan# 665
Delta R.T. -0.003 min
Lab File: U20845.D
Acq: 3 Jul 2014 4:34 pm

Tgt Ion: 76 Resp: 4909

Ion	Ratio	Lower	Upper
76	100		
78	16.7	0.0	38.8

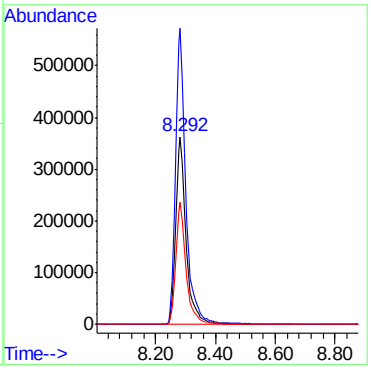


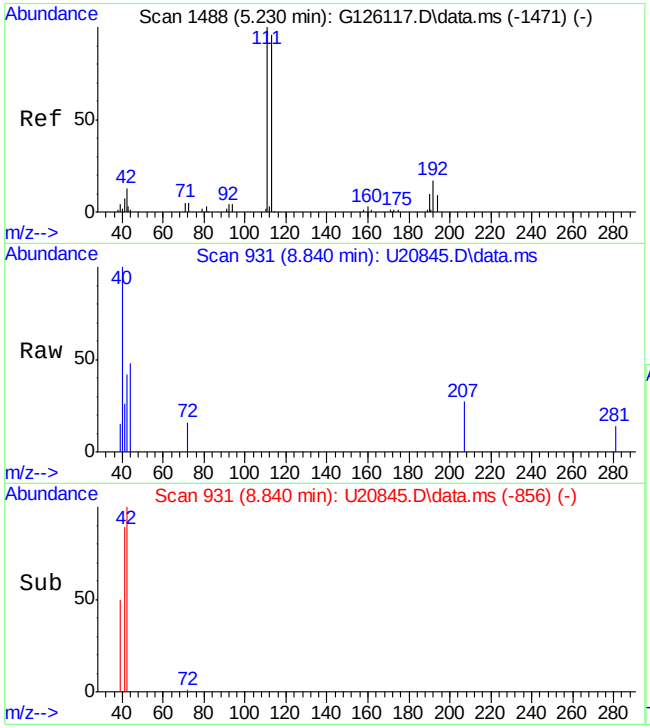


#37
cis-1,2-dichloroethene
Concen: 219.02 ppb
RT: 8.292 min Scan# 849
Delta R.T. 0.003 min
Lab File: U20845.D
Acq: 3 Jul 2014 4:34 pm

Tgt Ion: 96 Resp: 875447

Ion	Ratio	Lower	Upper
96	100		
61	152.8	126.3	186.3
98	65.0	36.2	96.2

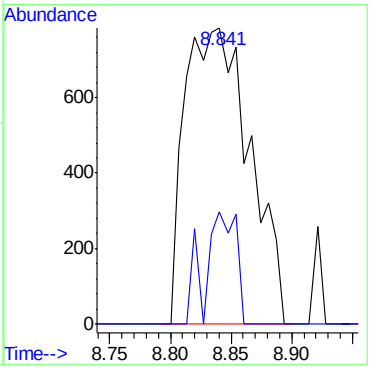




#41
Tetrahydrofuran
Concen: 2.54 ppb
RT: 8.841 min Scan# 931
Delta R.T. 0.007 min
Lab File: U20845.D
Acq: 3 Jul 2014 4:34 pm

Tgt Ion: 42 Resp: 2936

Ion	Ratio	Lower	Upper
42	100		
72	37.7	2.9	62.9



Manual Integrations APPROVED
(compounds with "m" flag)
Tomasz Torski
07/07/14 14:02

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20846.D
Acq On : 3 Jul 2014 5:02 pm
Operator : GaryK
Sample : mc31799-14
Misc : ms32217,msu934,,,,5,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 05 09:20:29 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

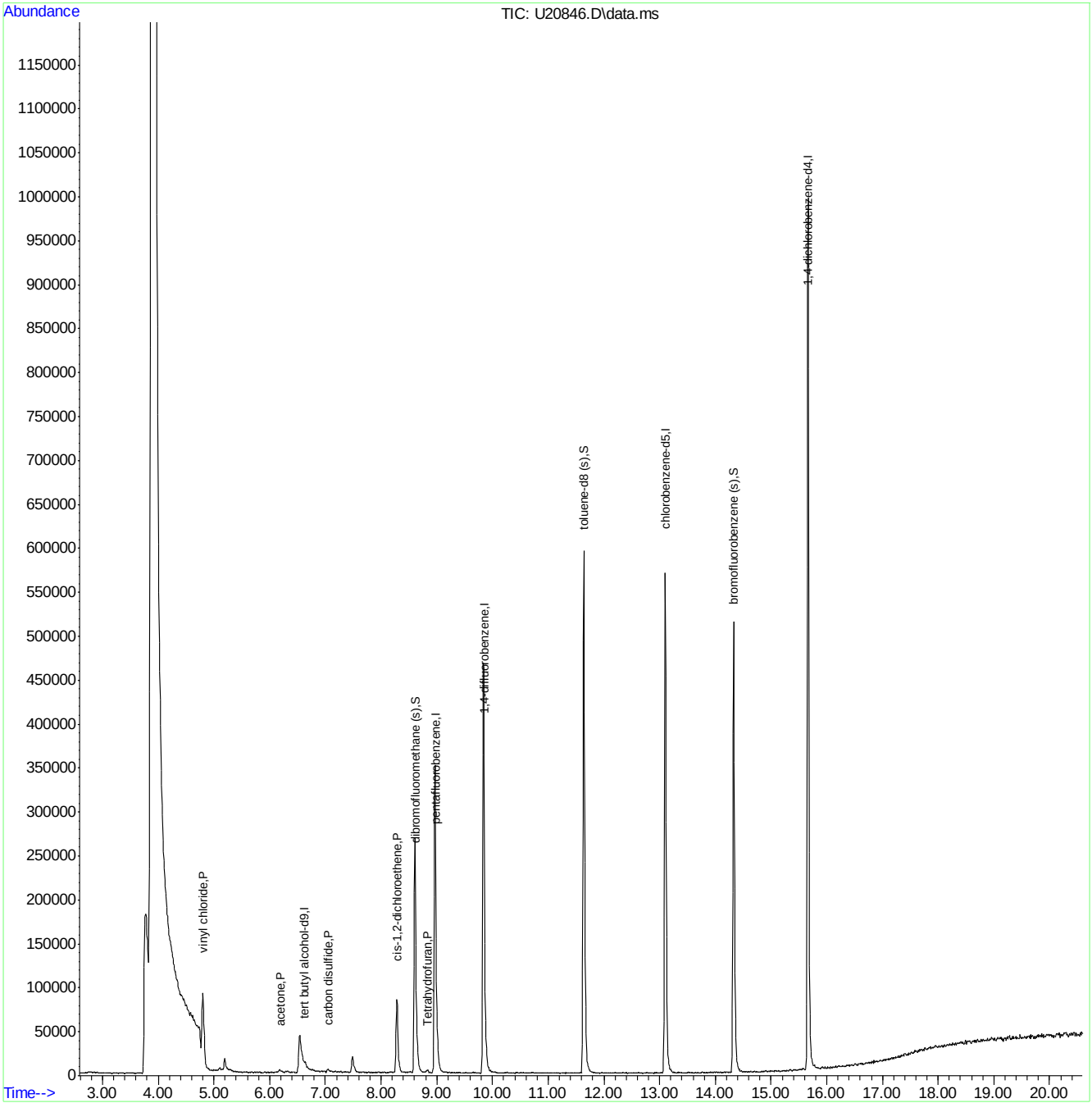
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.621	65	126905	50.00	ppb		0.02
4) pentafluorobenzene	8.979	168	301933	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.847	114	480952	50.00	ppb		0.00
66) chlorobenzene-d5	13.105	82	178411	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.668	152	319631	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.617	113	204937	62.72	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 125.44%				
60) toluene-d8 (s)	11.645	98	467814	50.99	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.98%				
82) bromofluorobenzene (s)	14.334	95	199953	49.38	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.76%				
Target Compounds							Qvalue
7) vinyl chloride	4.805	62	152917	26.66	ppb		97
16) acetone	6.197	58	2051	2.41	ppb	#	76
24) carbon disulfide	7.045	76	4690m	0.46	ppb		
37) cis-1,2-dichloroethene	8.291	96	41938	10.11	ppb		96
41) Tetrahydrofuran	8.833	42	2317	1.94	ppb		83

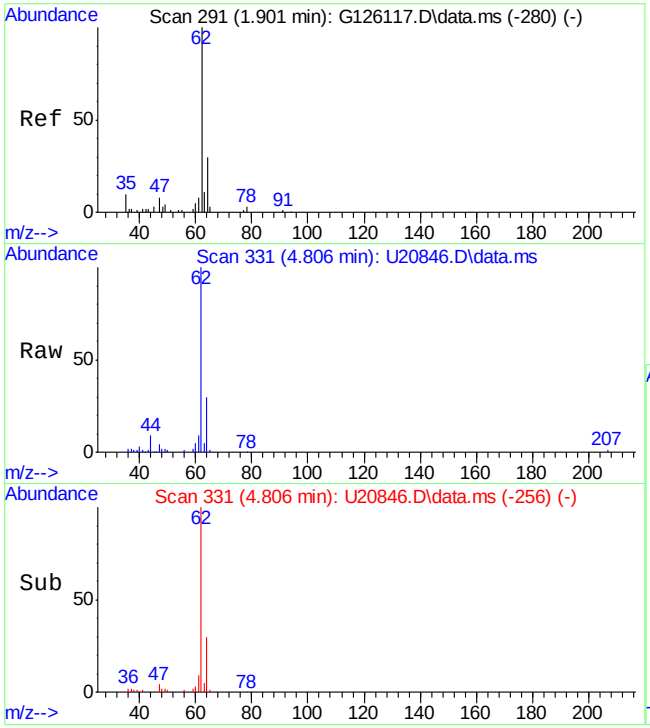
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20846.D
Acq On : 3 Jul 2014 5:02 pm
Operator : GaryK
Sample : mc31799-14
Misc : ms32217,msu934,,,,5,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 05 09:20:29 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

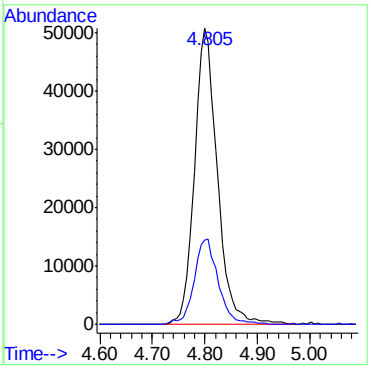


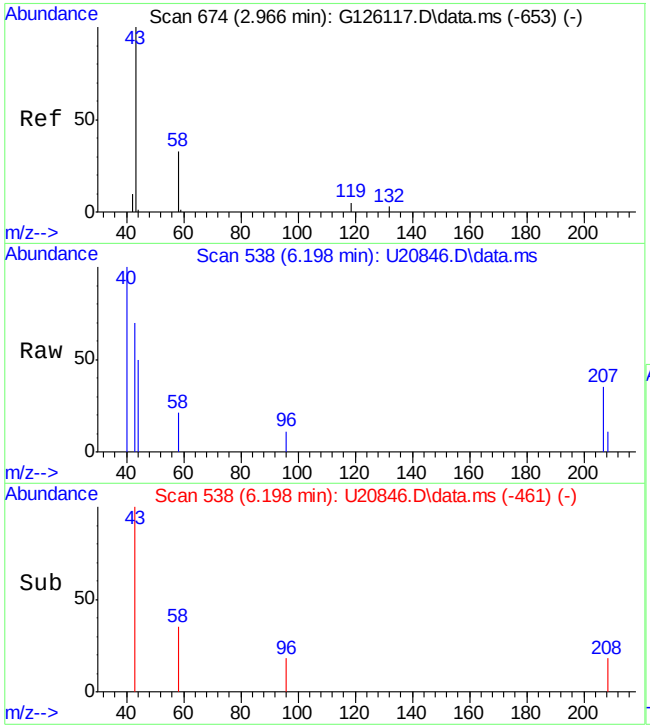


#7
vinyl chloride
Concen: 26.66 ppb
RT: 4.805 min Scan# 331
Delta R.T. 0.006 min
Lab File: U20846.D
Acq: 3 Jul 2014 5:02 pm

Tgt Ion: 62 Resp: 152917

Ion	Ratio	Lower	Upper
62	100		
64	30.0	1.8	61.8

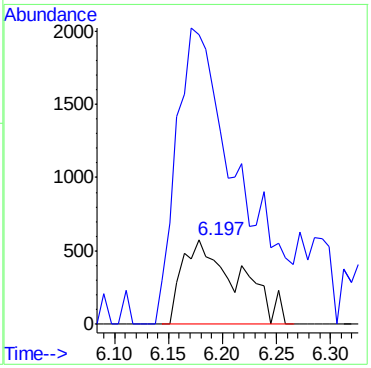


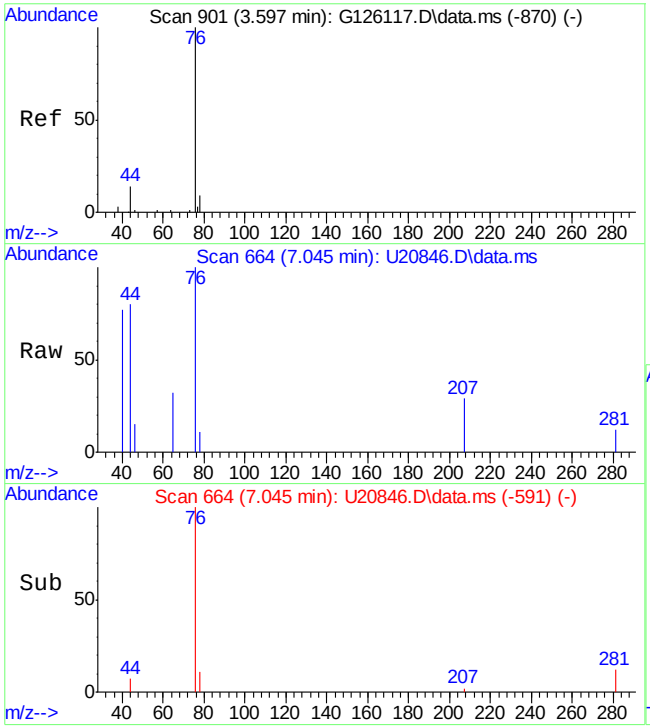


#16
acetone
Concen: 2.41 ppb
RT: 6.197 min Scan# 538
Delta R.T. 0.019 min
Lab File: U20846.D
Acq: 3 Jul 2014 5:02 pm

Tgt Ion: 58 Resp: 2051

Ion	Ratio	Lower	Upper
58	100		
43	261.4	278.8	338.8#

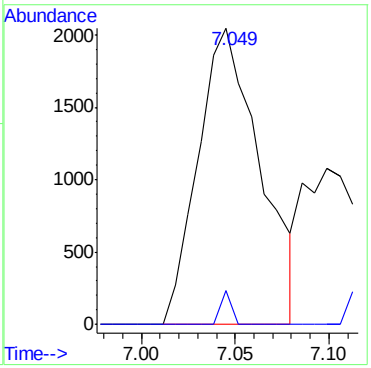


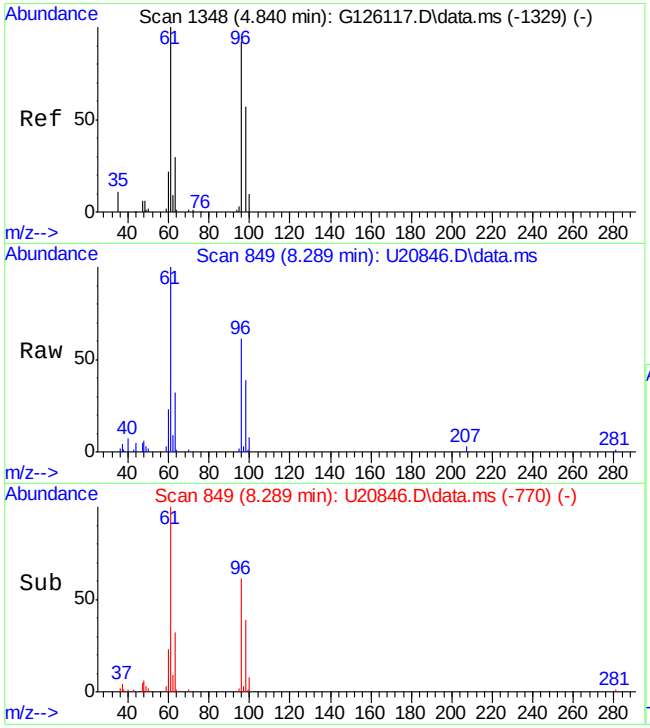


#24
carbon disulfide
Concen: 0.46 ppb m
RT: 7.045 min Scan# 664
Delta R.T. -0.008 min
Lab File: U20846.D
Acq: 3 Jul 2014 5:02 pm

Tgt Ion: 76 Resp: 4690

Ion	Ratio	Lower	Upper
76	100		
78	11.4	0.0	38.8

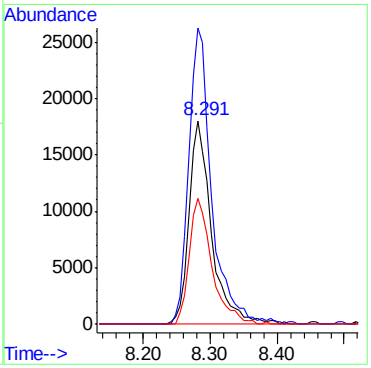


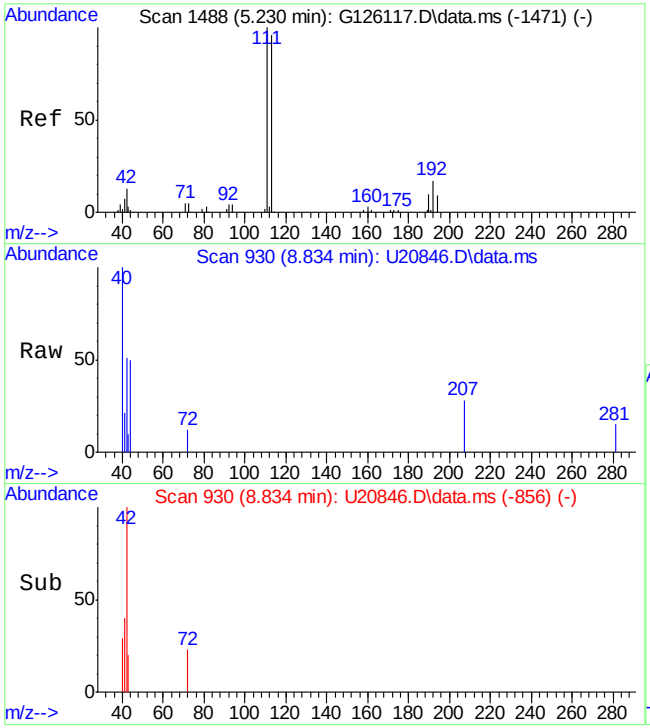


#37
cis-1,2-dichloroethene
Concen: 10.11 ppb
RT: 8.291 min Scan# 849
Delta R.T. 0.002 min
Lab File: U20846.D
Acq: 3 Jul 2014 5:02 pm

Tgt Ion: 96 Resp: 41938

Ion	Ratio	Lower	Upper
96	100		
61	163.0	126.3	186.3
98	64.3	36.2	96.2

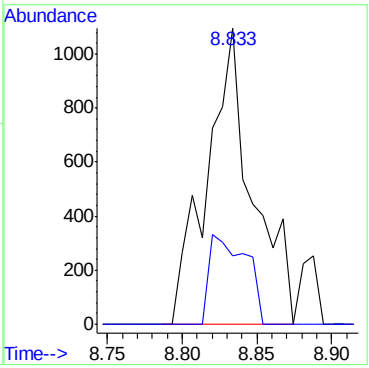




#41
Tetrahydrofuran
Concen: 1.94 ppb
RT: 8.833 min Scan# 930
Delta R.T. -0.001 min
Lab File: U20846.D
Acq: 3 Jul 2014 5:02 pm

Tgt Ion: 42 Resp: 2317

Ion	Ratio	Lower	Upper
42	100		
72	23.1	2.9	62.9



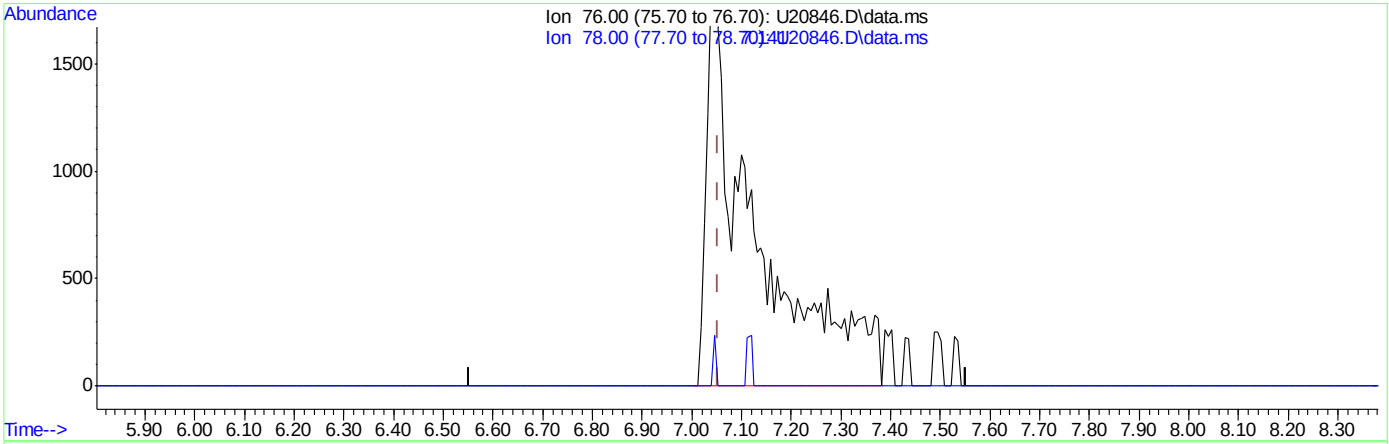
7.1.16

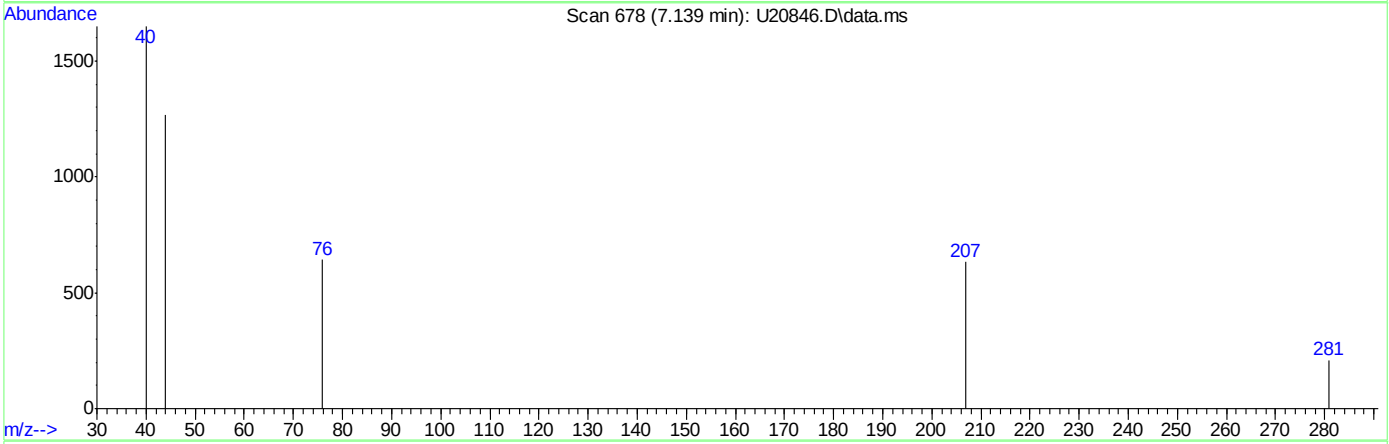
7

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20846.D
Acq On : 3 Jul 2014 5:02 pm
Operator : GaryK
Sample : mc31799-14
Misc : ms32217,msu934,,,,5,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 05 09:19:40 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration





TIC: U20846.D\data.ms

(24) carbon disulfide (P)

7.141min (+0.088) 1.26ppb

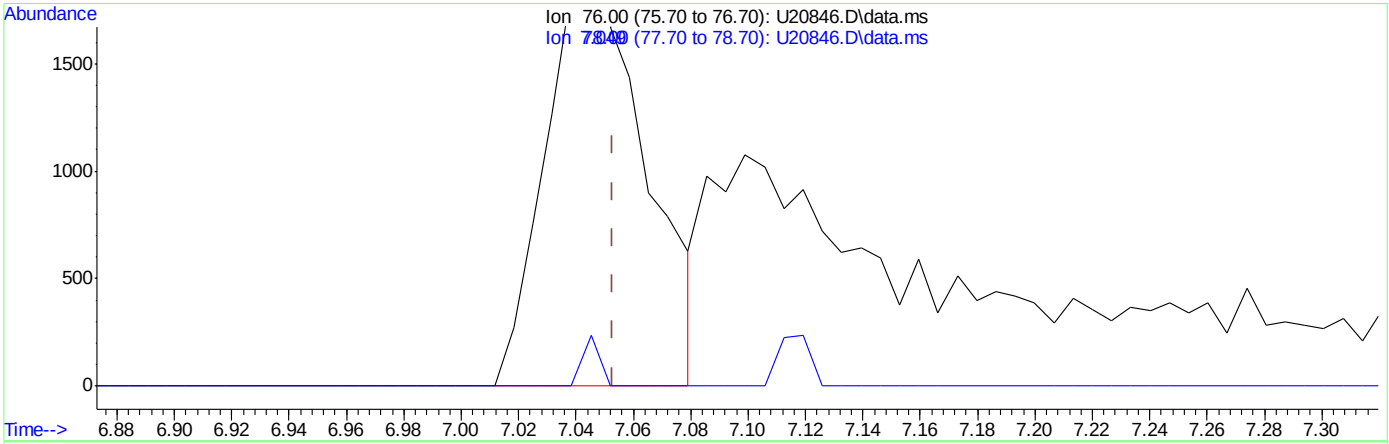
response 12774

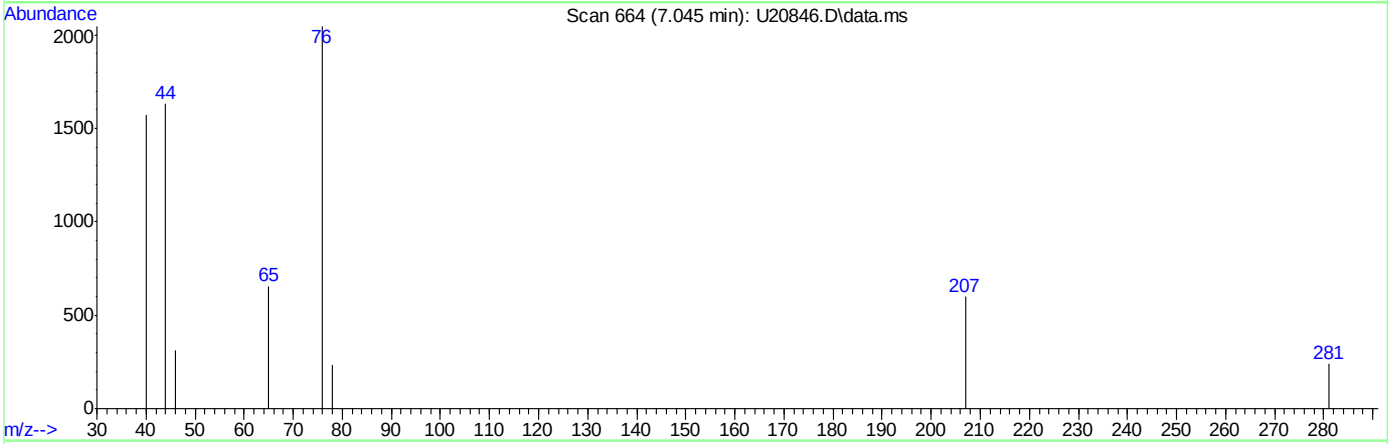
Ion	Exp%	Act%
76.00	100	100
78.00	8.80	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20846.D
Acq On : 3 Jul 2014 5:02 pm
Operator : GaryK
Sample : mc31799-14
Misc : ms32217,msu934,,,,5,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 05 09:19:40 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration





TIC: U20846.D\data.ms

(24) carbon disulfide (P)

7.045min (-0.008) 0.46ppb m

response 4690

Ion	Exp%	Act%
76.00	100	100
78.00	8.80	11.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20847.D
Acq On : 3 Jul 2014 5:29 pm
Operator : GaryK
Sample : mc31799-15
Misc : ms32217,msu934,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 05 09:21:21 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

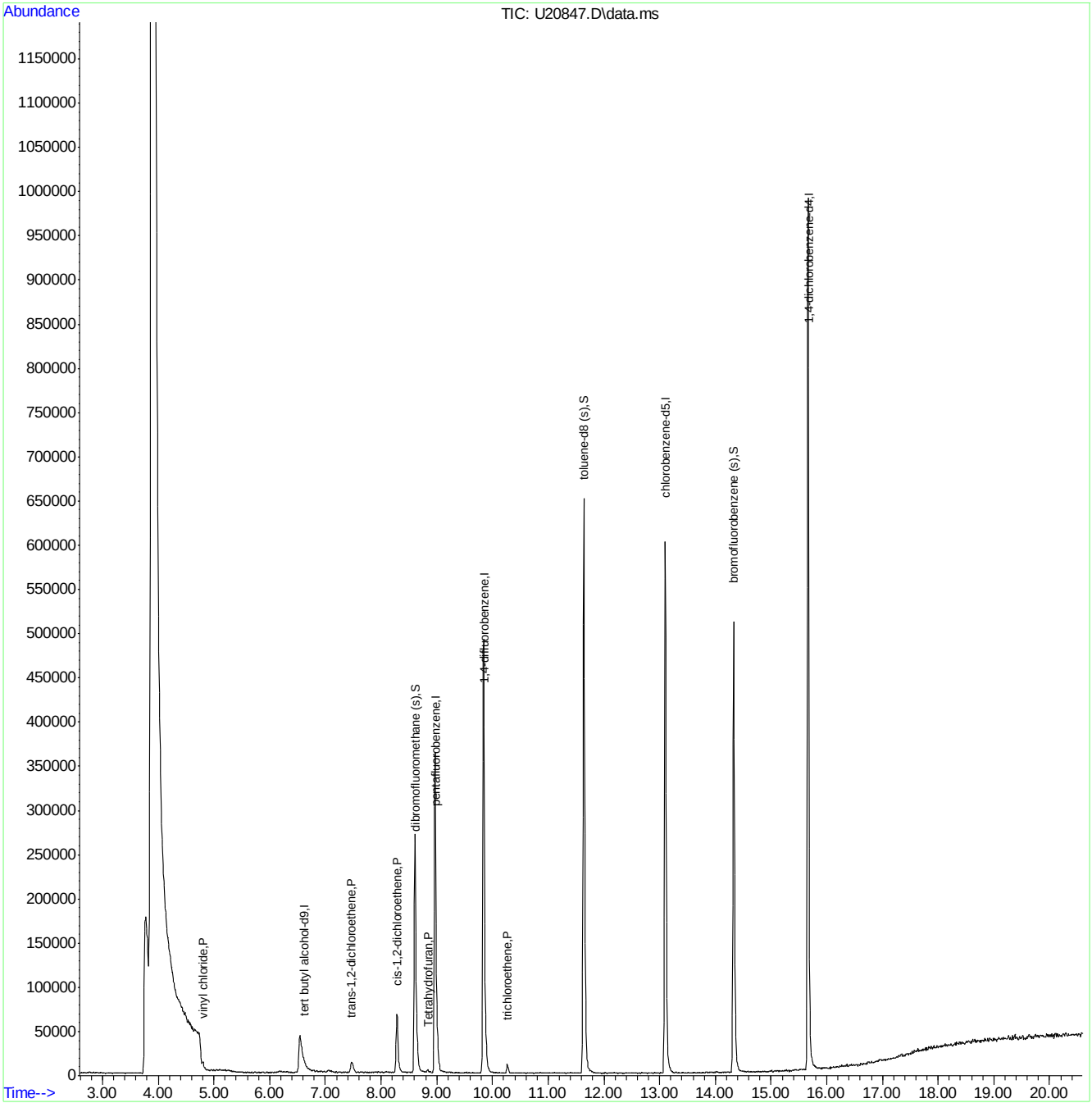
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.613	65	131006	50.00	ppb		0.02
4) pentafluorobenzene	8.980	168	307802	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.848	114	496550	50.00	ppb		0.00
66) chlorobenzene-d5	13.106	82	190583	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.669	152	312687	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.618	113	202844	60.89	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 121.78%				
60) toluene-d8 (s)	11.645	98	499453	52.73	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 105.46%				
82) bromofluorobenzene (s)	14.334	95	203278	51.32	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.64%				
Target Compounds							Qvalue
7) vinyl chloride	4.801	62	11863	2.03	ppb		97
22) trans-1,2-dichloroethene	7.471	96	5322	1.33	ppb		93
37) cis-1,2-dichloroethene	8.293	96	33889	8.02	ppb		90
41) Tetrahydrofuran	8.844	42	3377	2.77	ppb	#	42
51) trichloroethene	10.270	95	3672	1.06	ppb	#	45

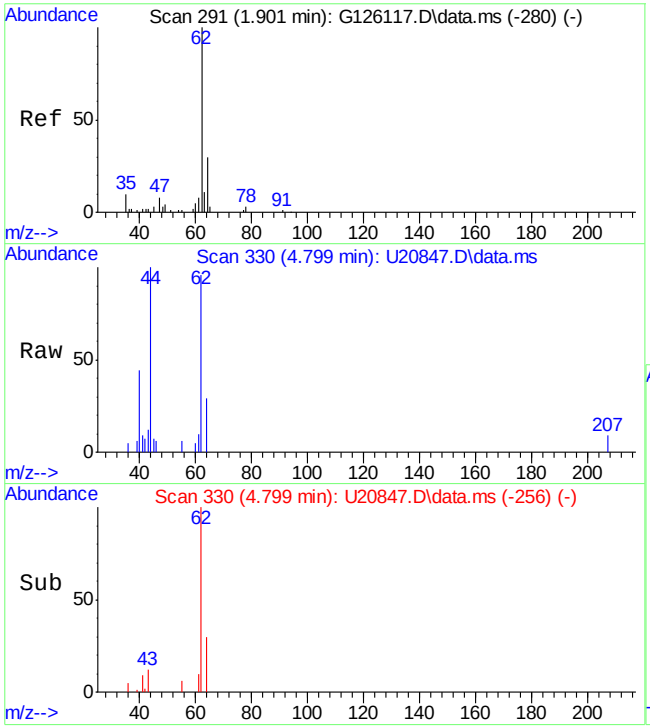
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20847.D
Acq On : 3 Jul 2014 5:29 pm
Operator : GaryK
Sample : mc31799-15
Misc : ms32217,msu934,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 05 09:21:21 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

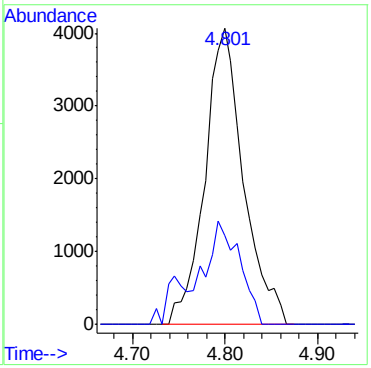


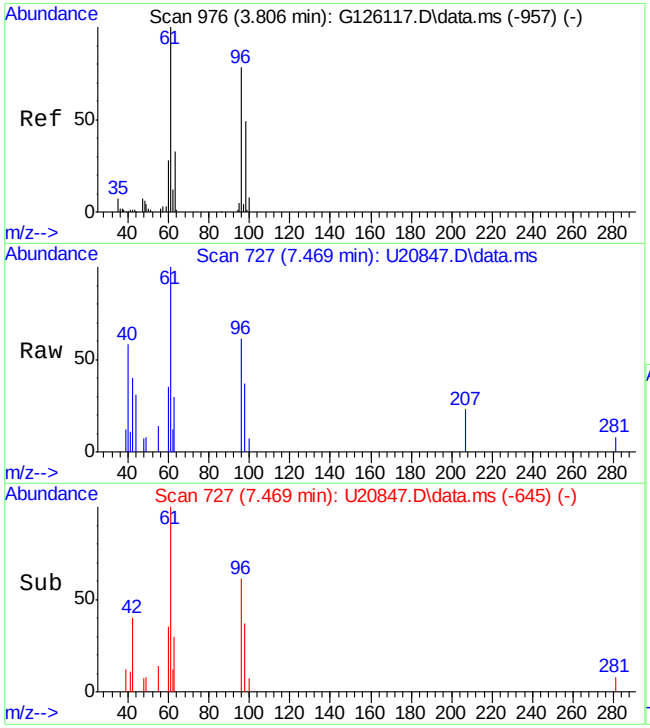


#7
vinyl chloride
Concen: 2.03 ppb
RT: 4.801 min Scan# 330
Delta R.T. 0.002 min
Lab File: U20847.D
Acq: 3 Jul 2014 5:29 pm

Tgt Ion: 62 Resp: 11863

Ion	Ratio	Lower	Upper
62	100		
64	30.1	1.8	61.8

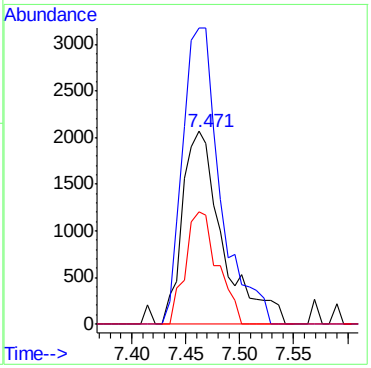


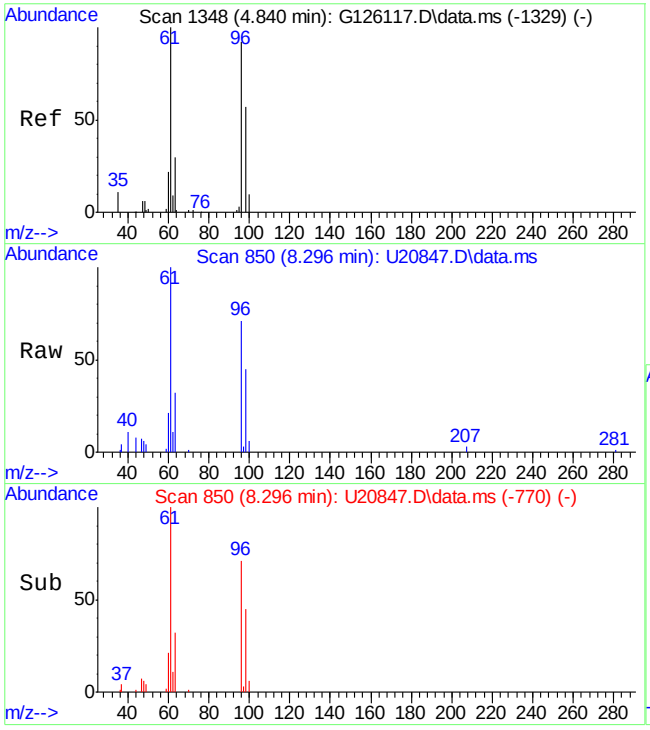


#22
trans-1,2-dichloroethene
Concen: 1.33 ppb
RT: 7.471 min Scan# 727
Delta R.T. 0.004 min
Lab File: U20847.D
Acq: 3 Jul 2014 5:29 pm

Tgt Ion: 96 Resp: 5322

Ion	Ratio	Lower	Upper
96	100		
61	164.3	145.5	205.5
98	60.7	35.2	95.2

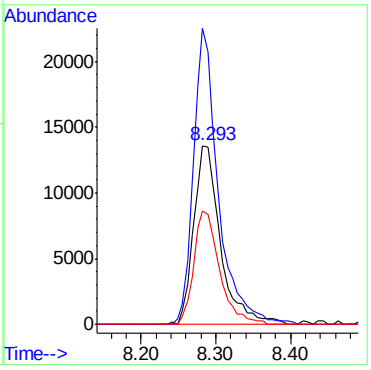


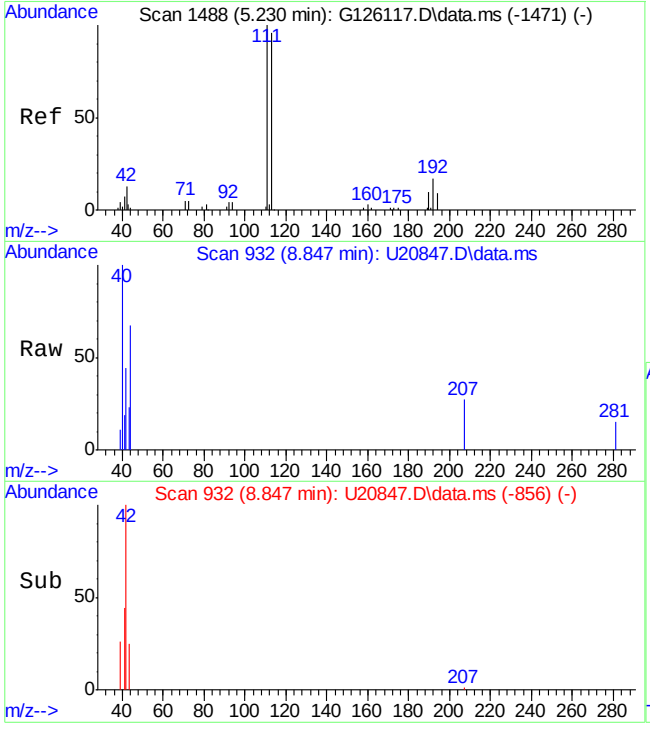


#37
cis-1,2-dichloroethene
Concen: 8.02 ppb
RT: 8.293 min Scan# 850
Delta R.T. 0.004 min
Lab File: U20847.D
Acq: 3 Jul 2014 5:29 pm

Tgt Ion: 96 Resp: 33889

Ion	Ratio	Lower	Upper
96	100		
61	140.1	126.3	186.3
98	63.1	36.2	96.2

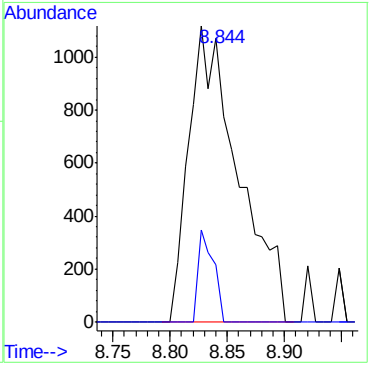


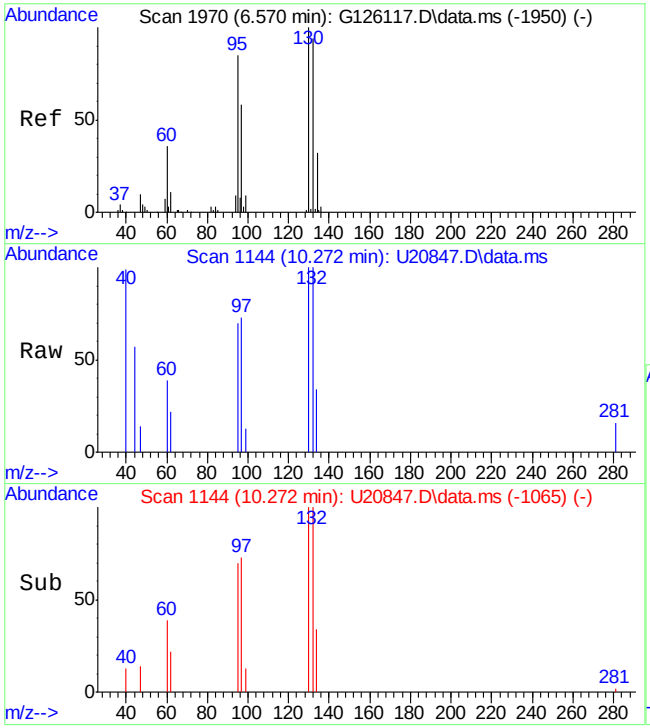


#41
Tetrahydrofuran
Concen: 2.77 ppb
RT: 8.844 min Scan# 932
Delta R.T. 0.010 min
Lab File: U20847.D
Acq: 3 Jul 2014 5:29 pm

Tgt Ion: 42 Resp: 3377

Ion	Ratio	Lower	Upper
42	100		
72	0.0	2.9	62.9#

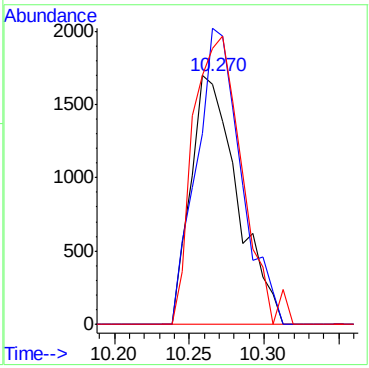




#51
trichloroethene
Concen: 1.06 ppb
RT: 10.270 min Scan# 1144
Delta R.T. 0.009 min
Lab File: U20847.D
Acq: 3 Jul 2014 5:29 pm

Tgt Ion: 95 Resp: 3672

Ion	Ratio	Lower	Upper
95	100		
130	142.5	58.8	118.8#
132	142.3	62.5	122.5#



7.1.17

7

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20848.D
Acq On : 3 Jul 2014 5:56 pm
Operator : GaryK
Sample : mc31799-16
Misc : ms32217,msu934,,,,5,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 05 09:22:38 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

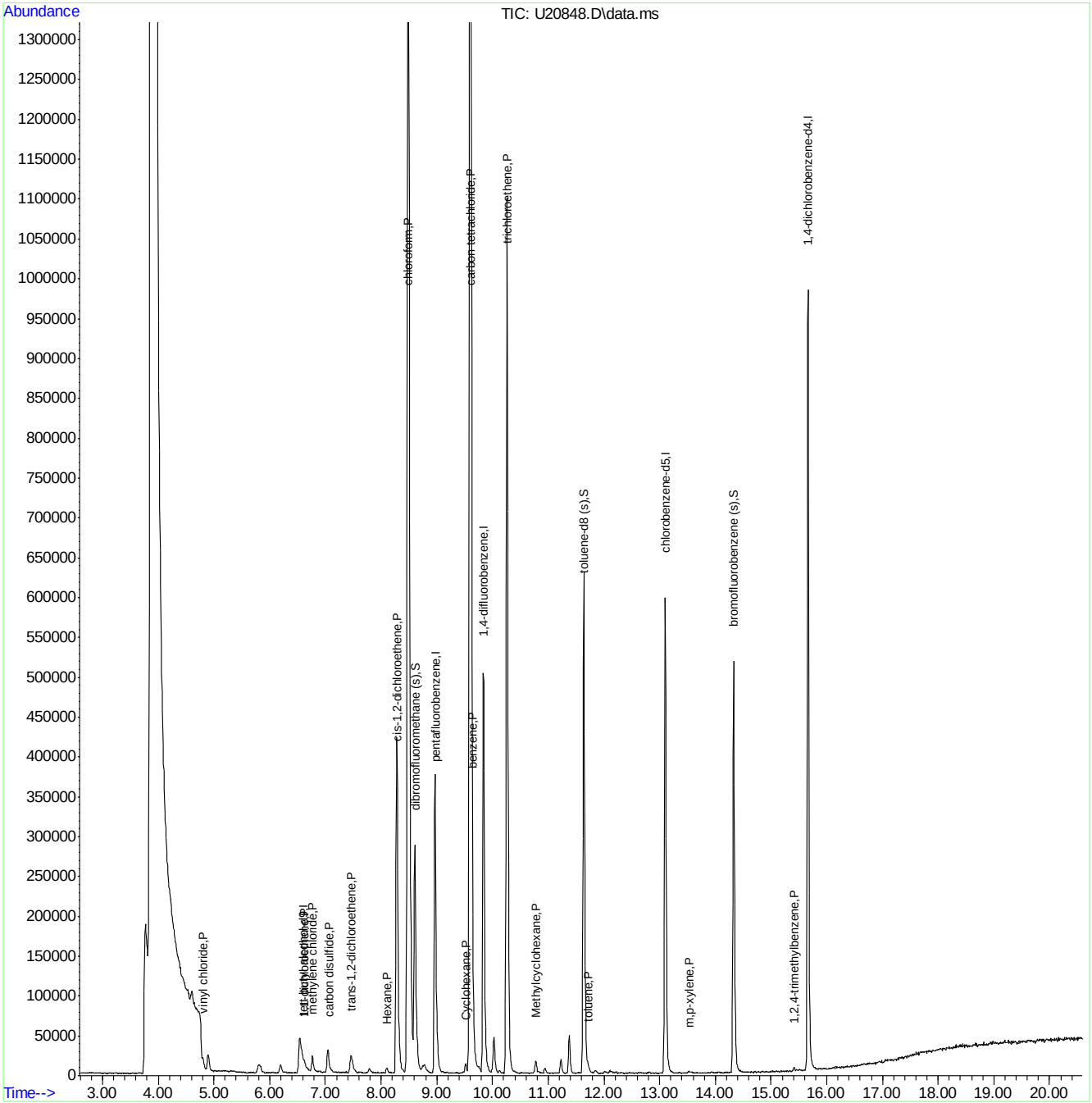
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.607	65	135189	50.00	ppb		0.01
4) pentafluorobenzene	8.978	168	313963	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.845	114	496742	50.00	ppb		0.00
66) chlorobenzene-d5	13.105	82	184931	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.667	152	314564	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.615	113	206552	60.79	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 121.58%				
60) toluene-d8 (s)	11.645	98	478191	50.47	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.94%				
82) bromofluorobenzene (s)	14.334	95	201964	50.68	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.36%				
Target Compounds							Qvalue
7) vinyl chloride	4.804	62	21904	3.67	ppb		99
15) 1,1-dichloroethene	6.624	96	1696	0.48	ppb	#	74
18) methylene chloride	6.775	84	7888	2.05	ppb		89
22) trans-1,2-dichloroethene	7.469	96	5962	1.46	ppb		89
24) carbon disulfide	7.064	76	57374	5.45	ppb		95
32) Hexane	8.105	41	2622	0.41	ppb	#	88
37) cis-1,2-dichloroethene	8.290	96	207080	48.02	ppb		100
39) chloroform	8.493	83	2081553	327.08	ppb		99
44) Cyclohexane	9.524	56	7399	1.00	ppb	#	84
45) carbon tetrachloride	9.606	117	2498506	499.46	ppb		98
47) benzene	9.640	78	2977	0.26	ppb		95
51) trichloroethene	10.264	95	370938	106.73	ppb	#	69
55) Methylcyclohexane	10.781	83	5044	0.97	ppb	#	72
62) toluene	11.716	92	2009	0.32	ppb		86
75) m,p-xylene	13.536	106	1924	0.43	ppb	#	61
91) 1,2,4-trimethylbenzene	15.410	105	3851	0.25	ppb		96

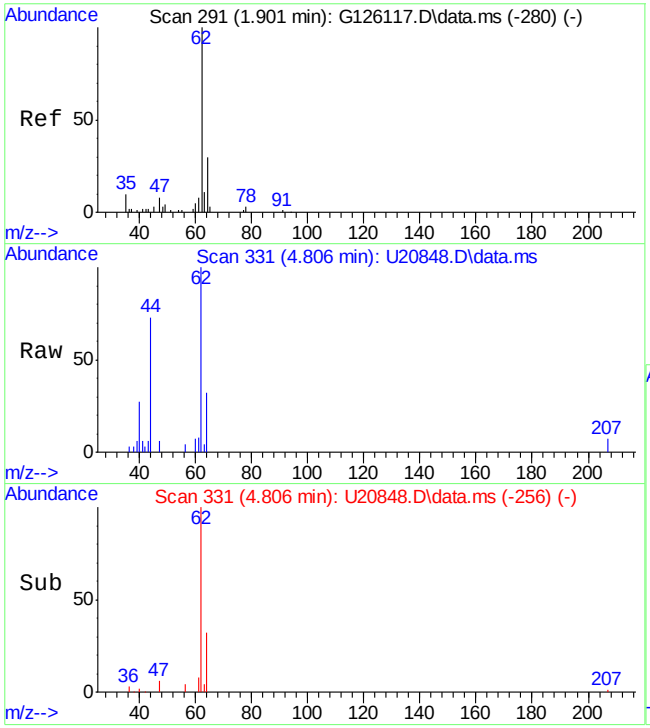
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20848.D
Acq On : 3 Jul 2014 5:56 pm
Operator : GaryK
Sample : mc31799-16
Misc : ms32217,msu934,,,,5,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 05 09:22:38 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

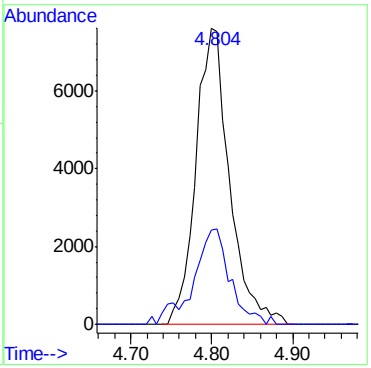


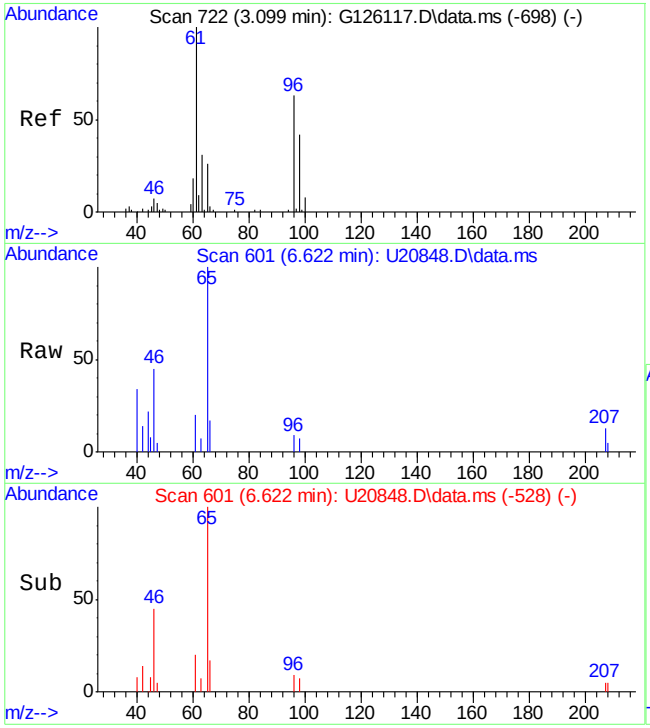


#7
vinyl chloride
Concen: 3.67 ppb
RT: 4.804 min Scan# 331
Delta R.T. 0.005 min
Lab File: U20848.D
Acq: 3 Jul 2014 5:56 pm

Tgt Ion: 62 Resp: 21904

Ion	Ratio	Lower	Upper
62	100		
64	32.4	1.8	61.8

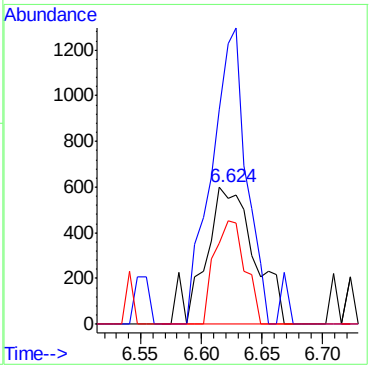


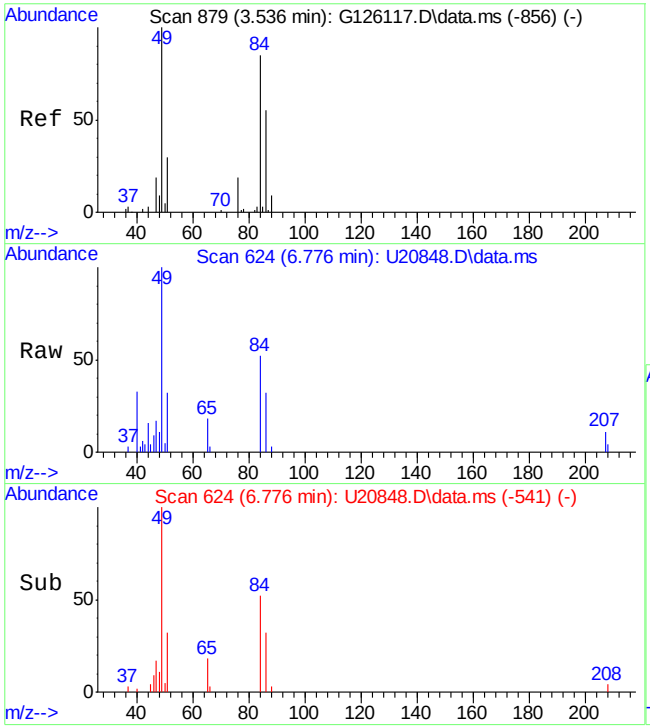


#15
1,1-dichloroethene
Concen: 0.48 ppb
RT: 6.624 min Scan# 601
Delta R.T. -0.005 min
Lab File: U20848.D
Acq: 3 Jul 2014 5:56 pm

Tgt Ion: 96 Resp: 1696

Ion	Ratio	Lower	Upper
96	100		
61	224.0	158.7	218.7#
63	82.1	27.6	87.6

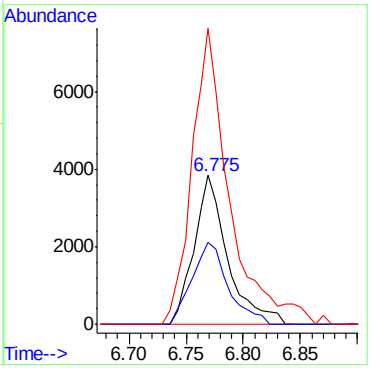


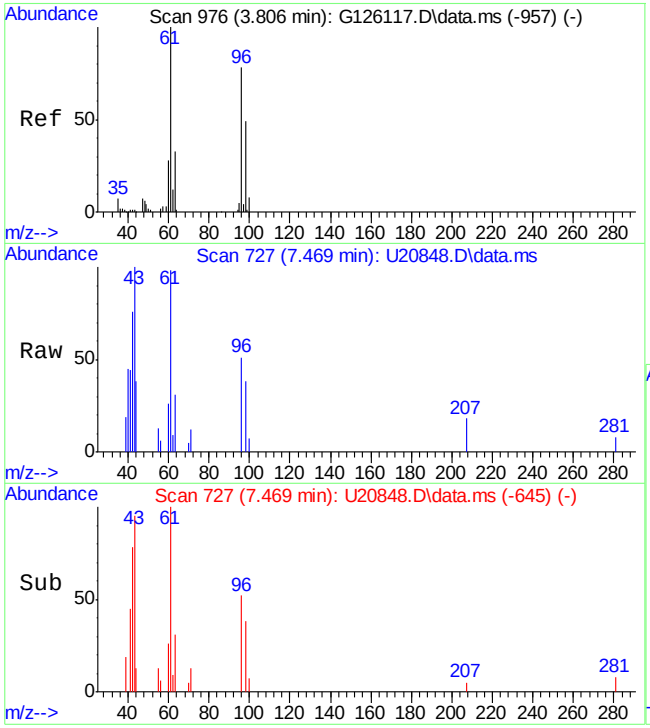


#18
methylene chloride
Concen: 2.05 ppb
RT: 6.775 min Scan# 624
Delta R.T. -0.005 min
Lab File: U20848.D
Acq: 3 Jul 2014 5:56 pm

Tgt Ion: 84 Resp: 7888

Ion	Ratio	Lower	Upper
84	100		
86	61.5	36.8	96.8
49	191.3	143.4	203.4

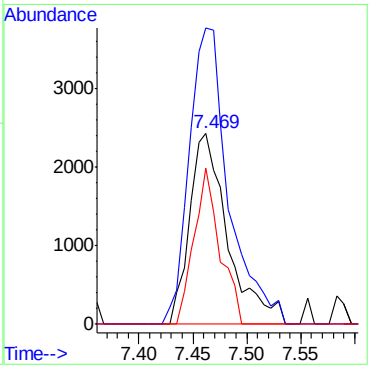


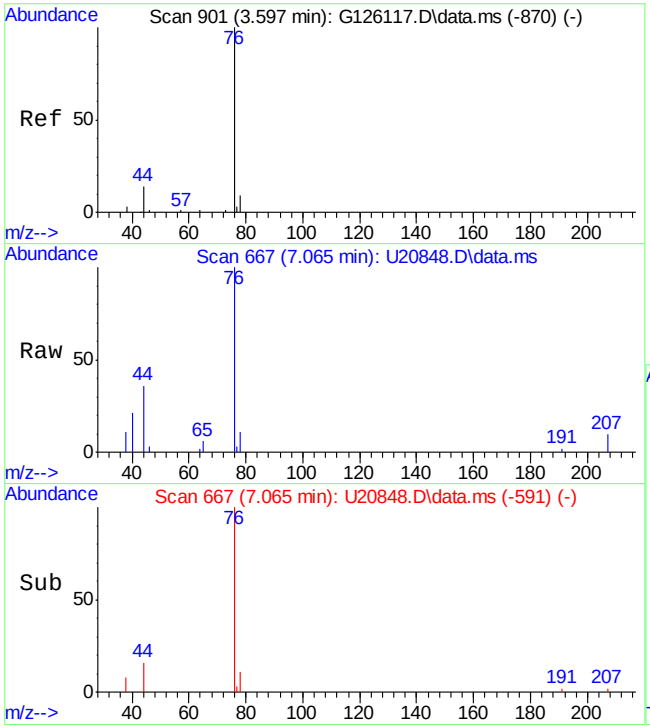


#22
trans-1,2-dichloroethene
Concen: 1.46 ppb
RT: 7.469 min Scan# 727
Delta R.T. 0.002 min
Lab File: U20848.D
Acq: 3 Jul 2014 5:56 pm

Tgt Ion: 96 Resp: 5962

Ion	Ratio	Lower	Upper
96	100		
61	190.9	145.5	205.5
98	73.3	35.2	95.2

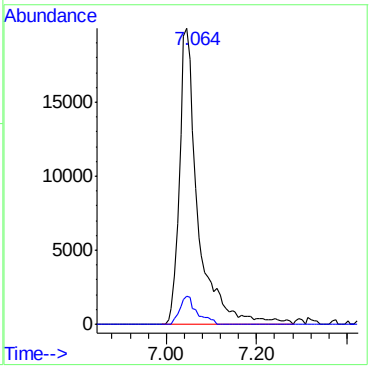


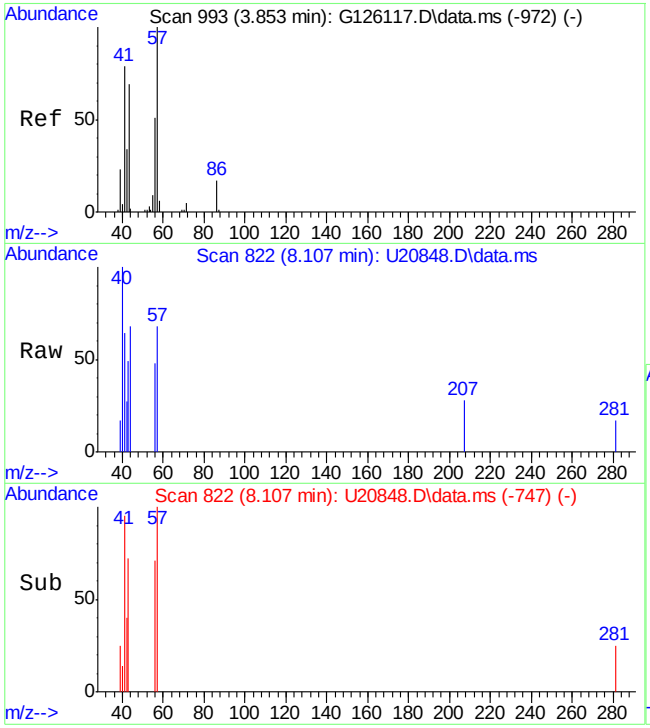


#24
carbon disulfide
Concen: 5.45 ppb
RT: 7.064 min Scan# 667
Delta R.T. 0.011 min
Lab File: U20848.D
Acq: 3 Jul 2014 5:56 pm

Tgt Ion: 76 Resp: 57374

Ion	Ratio	Lower	Upper
76	100		
78	10.5	0.0	38.8

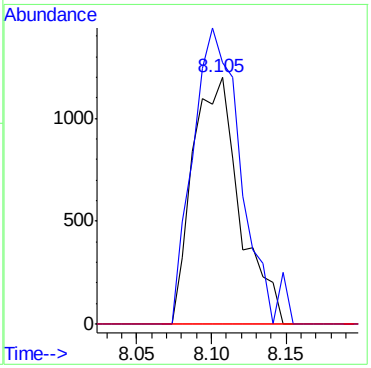


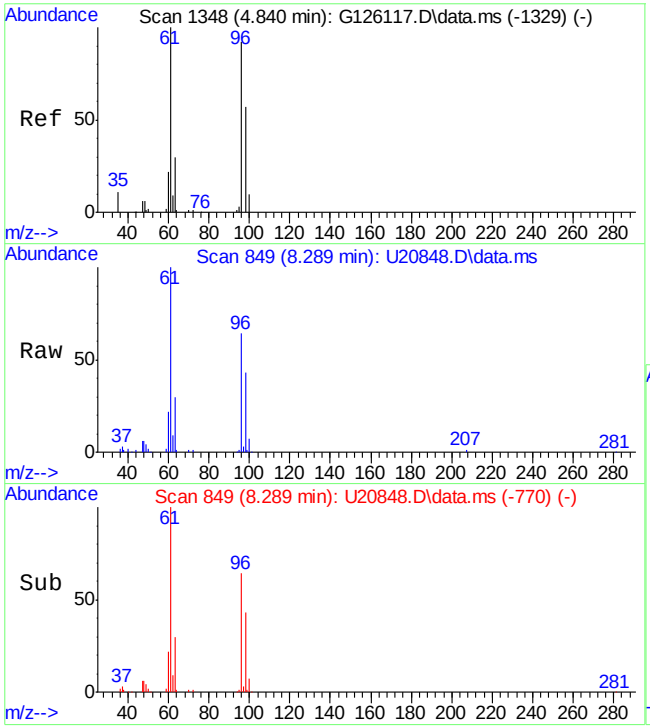


#32
Hexane
Concen: 0.41 ppb
RT: 8.105 min Scan# 822
Delta R.T. -0.000 min
Lab File: U20848.D
Acq: 3 Jul 2014 5:56 pm

Tgt Ion: 41 Resp: 2622

Ion	Ratio	Lower	Upper
41	100		
57	105.7	76.6	114.8
86	0.0	9.0	13.6#

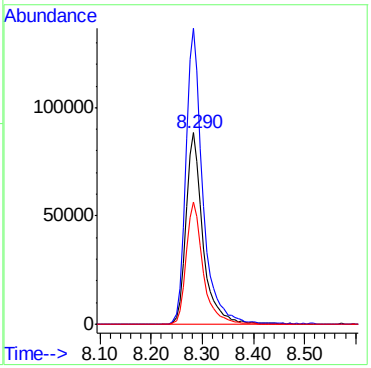


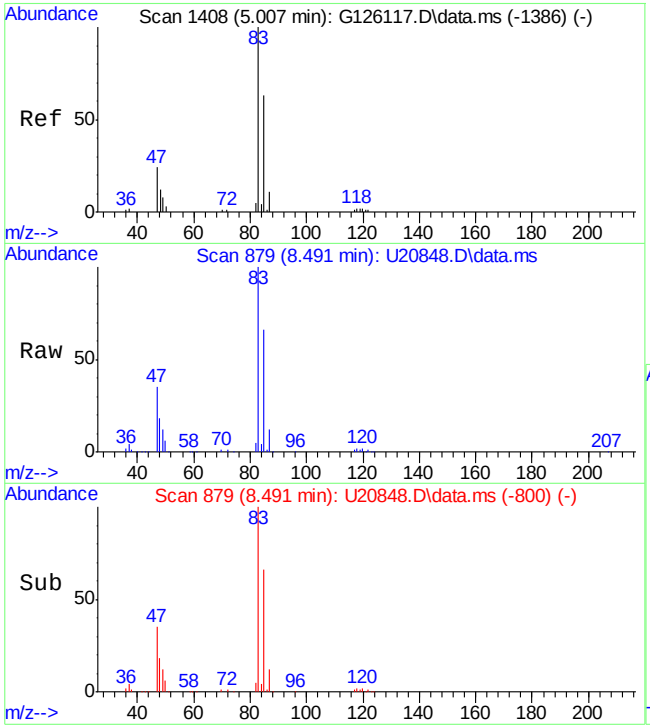


#37
cis-1,2-dichloroethene
Concen: 48.02 ppb
RT: 8.290 min Scan# 849
Delta R.T. 0.001 min
Lab File: U20848.D
Acq: 3 Jul 2014 5:56 pm

Tgt Ion: 96 Resp: 207080

Ion	Ratio	Lower	Upper
96	100		
61	155.6	126.3	186.3
98	66.3	36.2	96.2

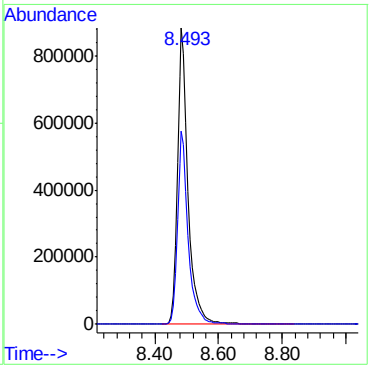


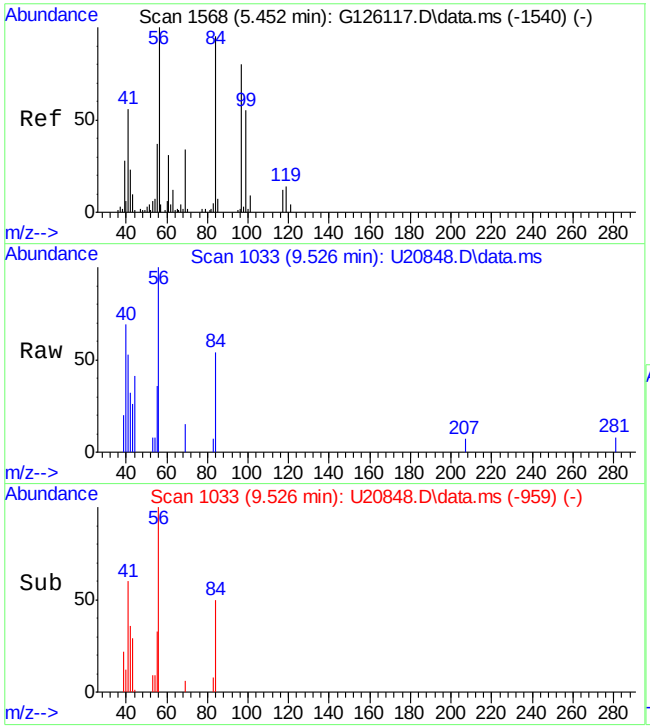


#39
chloroform
Concen: 327.08 ppb
RT: 8.493 min Scan# 879
Delta R.T. 0.001 min
Lab File: U20848.D
Acq: 3 Jul 2014 5:56 pm

Tgt Ion: 83 Resp: 2081553

Ion	Ratio	Lower	Upper
83	100		
85	66.5	36.9	96.9

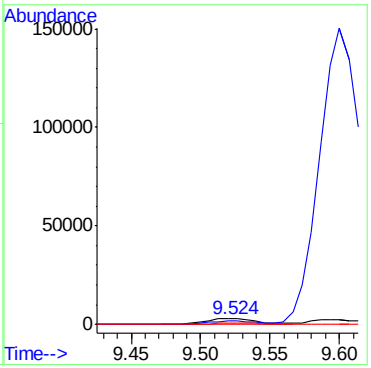


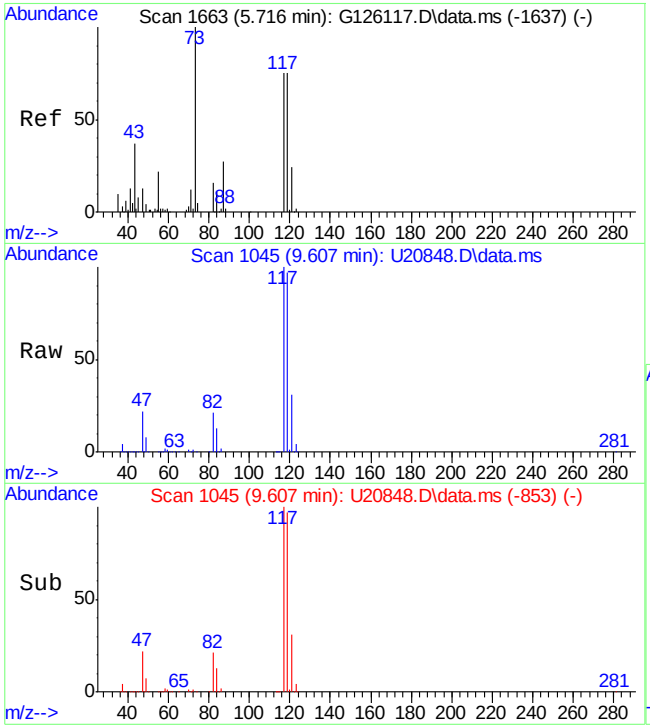


#44
Cyclohexane
Concen: 1.00 ppb
RT: 9.524 min Scan# 1033
Delta R.T. -0.002 min
Lab File: U20848.D
Acq: 3 Jul 2014 5:56 pm

Tgt Ion: 56 Resp: 7399

Ion	Ratio	Lower	Upper
56	100		
84	54.3	54.2	81.2
69	15.3	18.3	27.5#

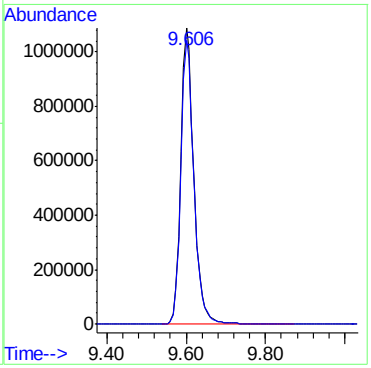


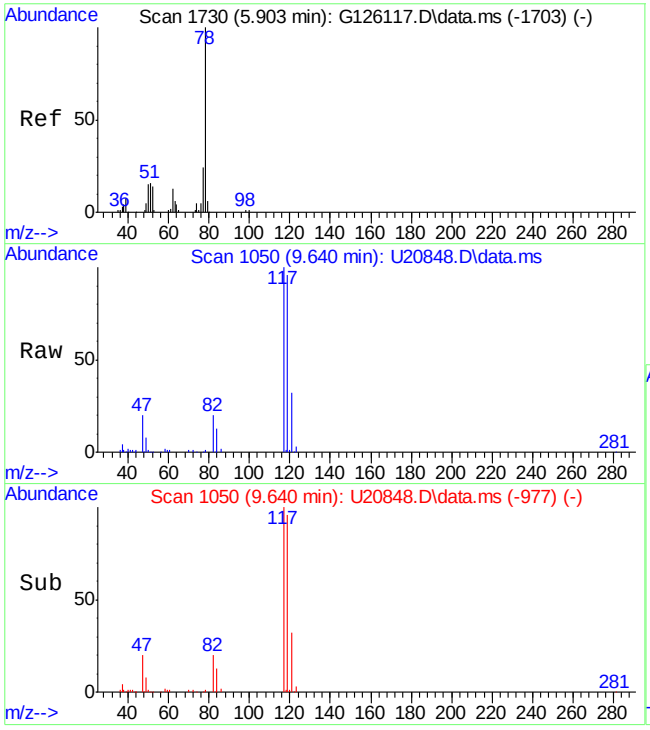


#45
carbon tetrachloride
Concen: 499.46 ppb
RT: 9.606 min Scan# 1045
Delta R.T. -0.000 min
Lab File: U20848.D
Acq: 3 Jul 2014 5:56 pm

Tgt Ion:117 Resp: 2498506

Ion	Ratio	Lower	Upper
117	100		
119	96.8	64.9	124.9

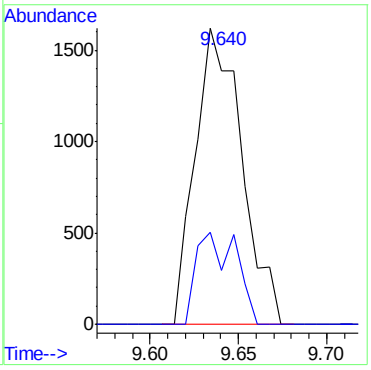


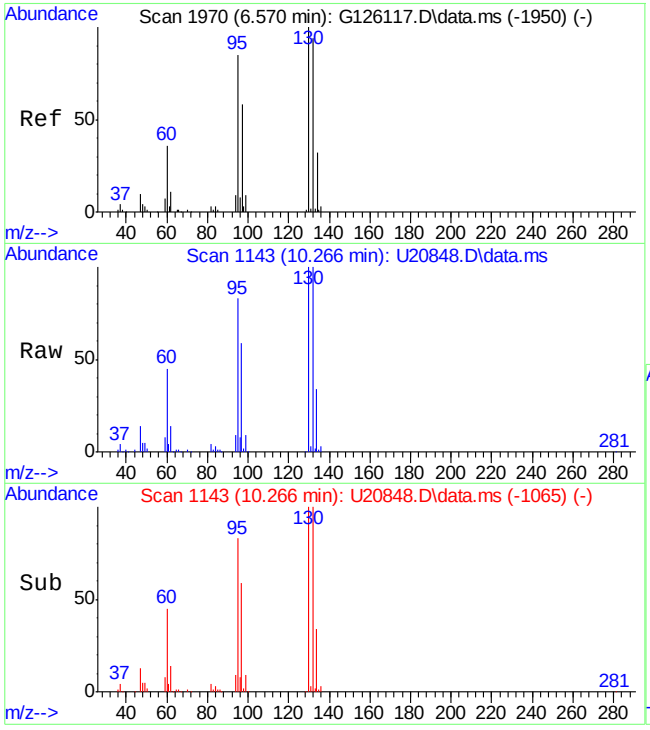


#47
benzene
Concen: 0.26 ppb
RT: 9.640 min Scan# 1050
Delta R.T. -0.001 min
Lab File: U20848.D
Acq: 3 Jul 2014 5:56 pm

Tgt Ion: 78 Resp: 2977

Ion	Ratio	Lower	Upper
78	100		
77	21.2	0.0	53.9

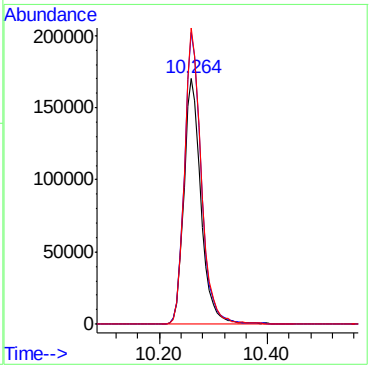


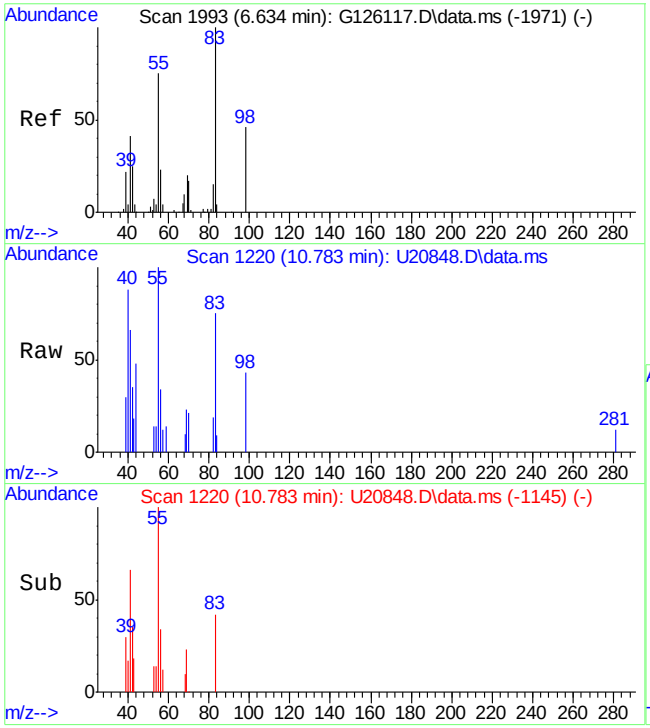


#51
trichloroethene
Concen: 106.73 ppb
RT: 10.264 min Scan# 1143
Delta R.T. 0.003 min
Lab File: U20848.D
Acq: 3 Jul 2014 5:56 pm

Tgt Ion: 95 Resp: 370938

Ion	Ratio	Lower	Upper
95	100		
130	120.2	58.8	118.8#
132	119.9	62.5	122.5

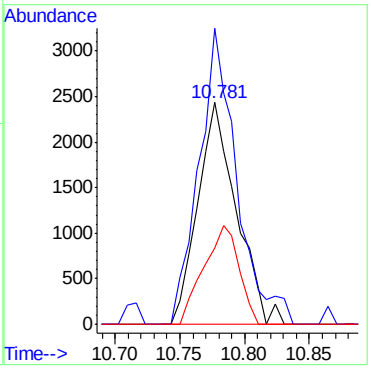


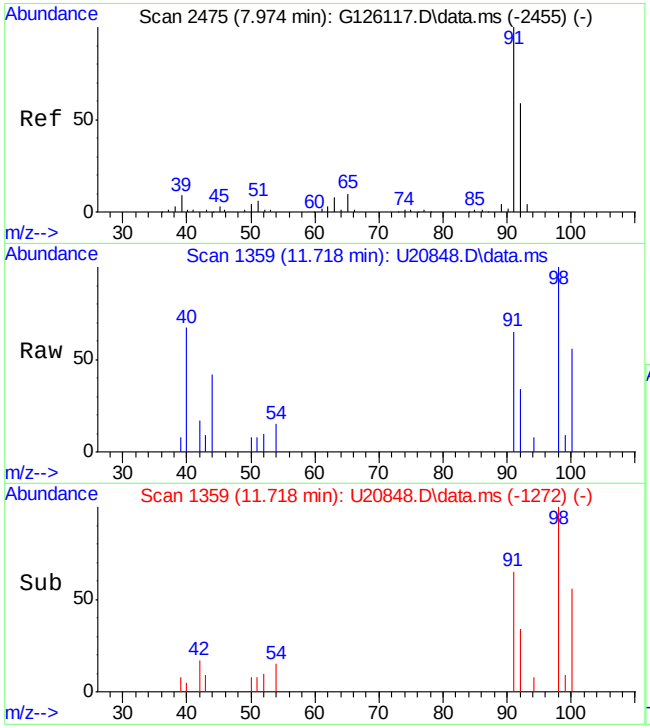


#55
Methylcyclohexane
Concen: 0.97 ppb
RT: 10.781 min Scan# 1220
Delta R.T. 0.002 min
Lab File: U20848.D
Acq: 3 Jul 2014 5:56 pm

Tgt Ion: 83 Resp: 5044

Ion	Ratio	Lower	Upper
83	100		
55	133.2	81.4	122.2#
98	56.8	34.2	51.2#

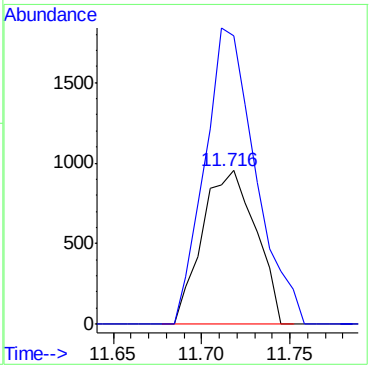


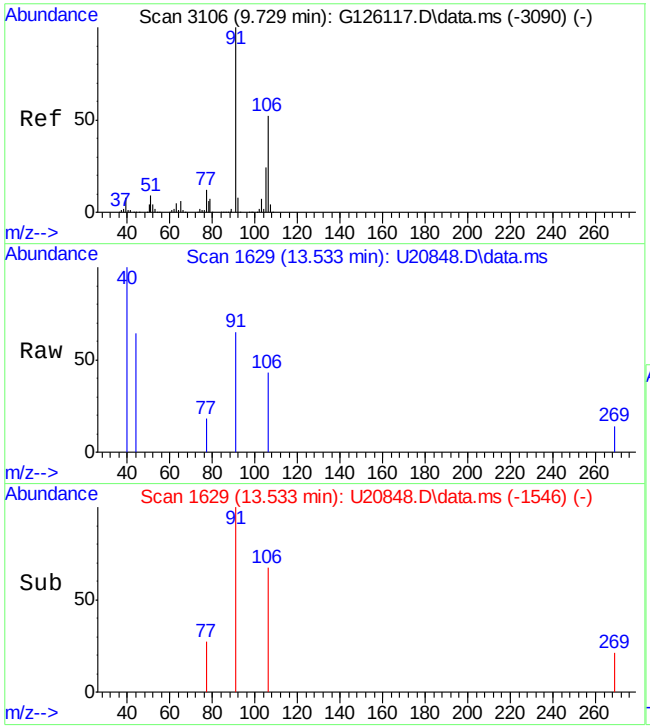


#62
toluene
Concen: 0.32 ppb
RT: 11.716 min Scan# 1359
Delta R.T. 0.004 min
Lab File: U20848.D
Acq: 3 Jul 2014 5:56 pm

Tgt Ion: 92 Resp: 2009

Ion	Ratio	Lower	Upper
92	100		
91	188.0	139.2	199.2

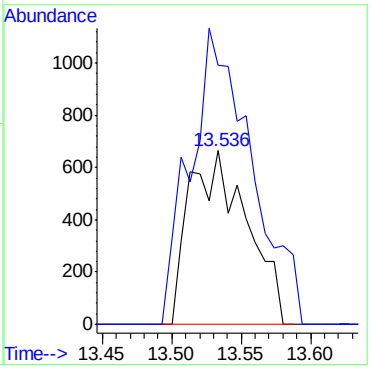


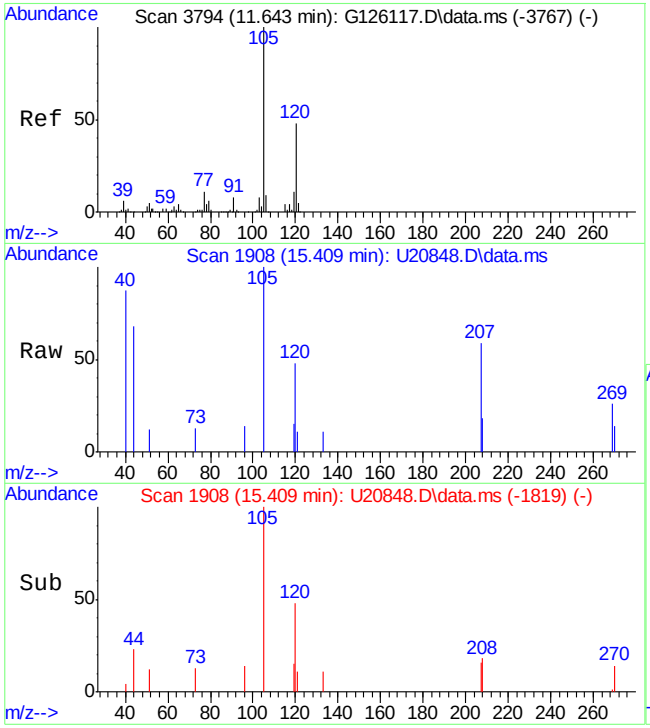


#75
m,p-xylene
Concen: 0.43 ppb
RT: 13.536 min Scan# 1629
Delta R.T. 0.042 min
Lab File: U20848.D
Acq: 3 Jul 2014 5:56 pm

Tgt Ion:106 Resp: 1924

Ion	Ratio	Lower	Upper
106	100		
91	149.2	180.7	240.7#

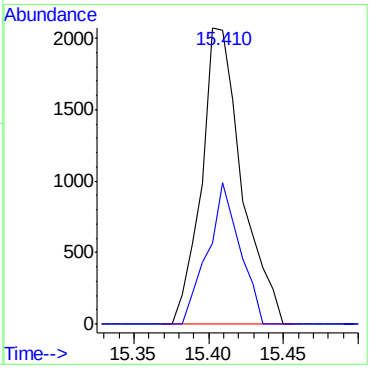




#91
1,2,4-trimethylbenzene
Concen: 0.25 ppb
RT: 15.410 min Scan# 1908
Delta R.T. 0.007 min
Lab File: U20848.D
Acq: 3 Jul 2014 5:56 pm

Tgt Ion:105 Resp: 3851

Ion	Ratio	Lower	Upper
105	100		
120	48.1	15.3	75.3



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20952.D
Acq On : 8 Jul 2014 5:54 pm
Operator : GaryK
Sample : mc31799-16
Misc : ms32217,msu937,,,,5,10
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 09 07:43:17 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

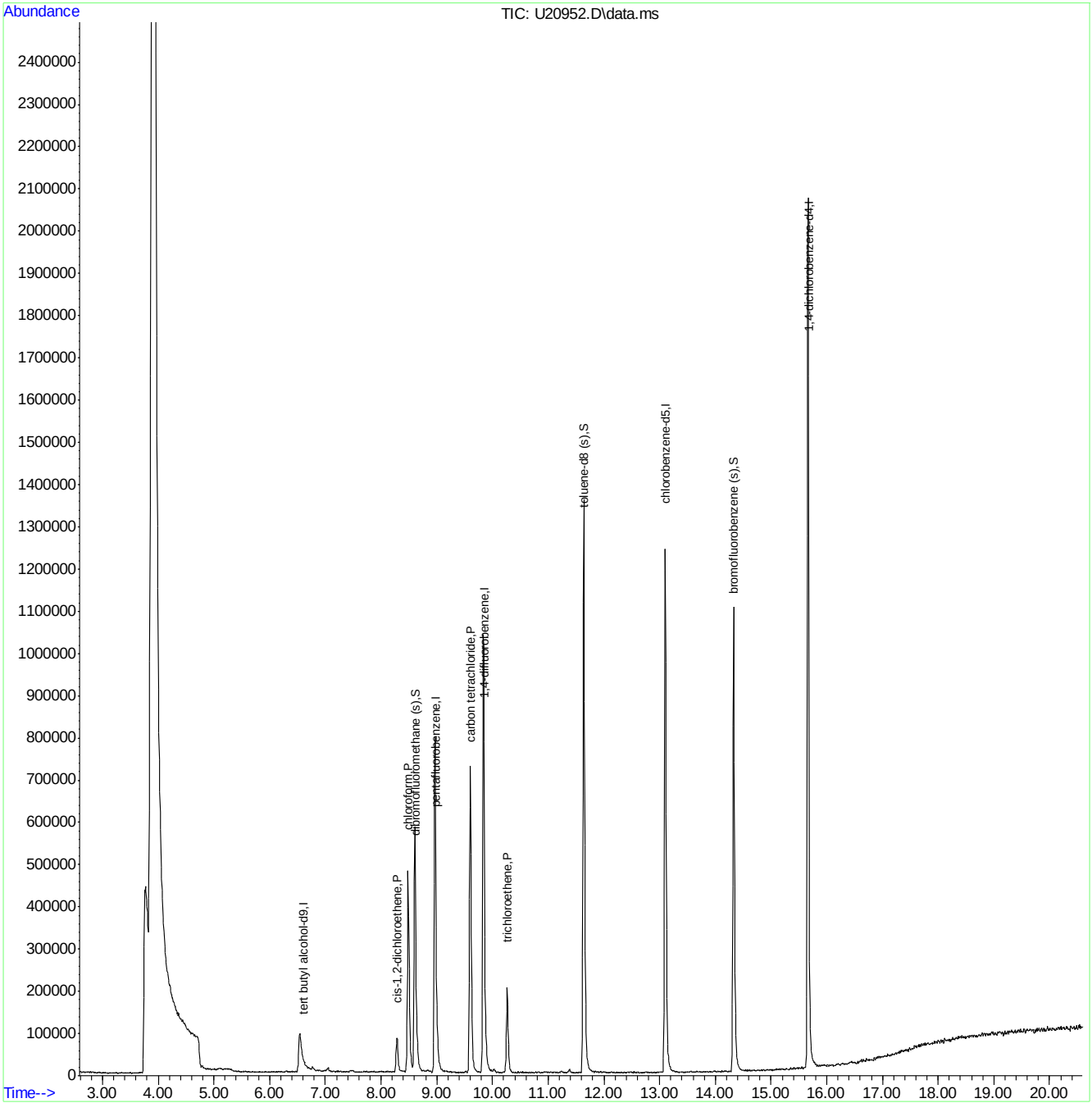
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.599	65	257245	50.00	ppb		0.00
4) pentafluorobenzene	8.979	168	660304	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.846	114	1033848	50.00	ppb		0.00
66) chlorobenzene-d5	13.105	82	395029	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.669	152	658081	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.618	113	434433	60.79	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 121.58%				
60) toluene-d8 (s)	11.645	98	1017178	51.58	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.16%				
82) bromofluorobenzene (s)	14.334	95	411892	49.41	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.82%				
Target Compounds							Qvalue
37) cis-1,2-dichloroethene	8.292	96	41186	4.54	ppb		98
39) chloroform	8.494	83	413814	30.92	ppb		98
45) carbon tetrachloride	9.606	117	527205	50.64	ppb		96
51) trichloroethene	10.268	95	71775	9.92	ppb	#	68

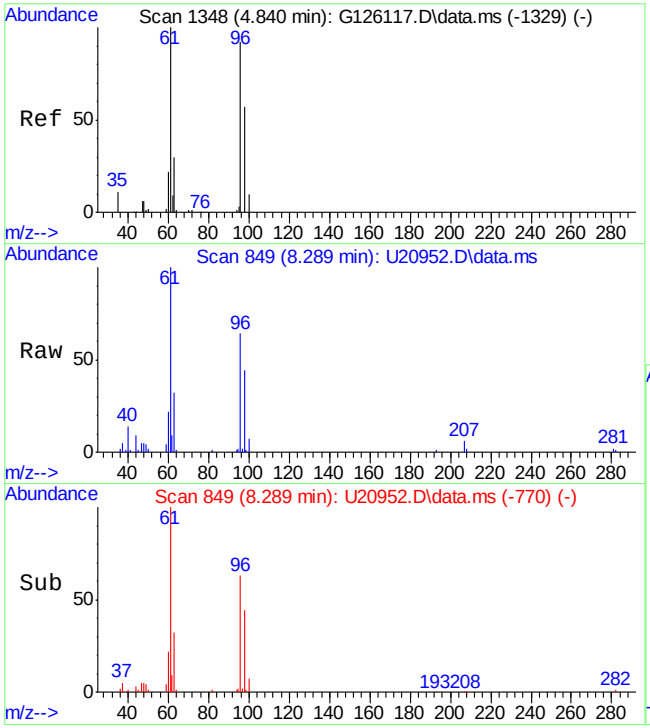
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20952.D
Acq On : 8 Jul 2014 5:54 pm
Operator : GaryK
Sample : mc31799-16
Misc : ms32217,msu937,,,,5,10
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 09 07:43:17 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

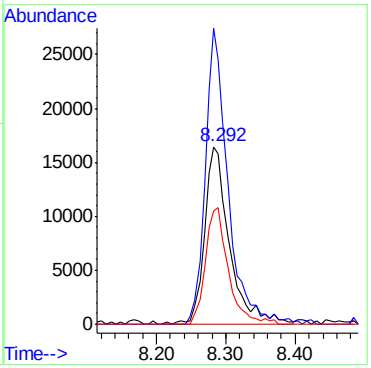


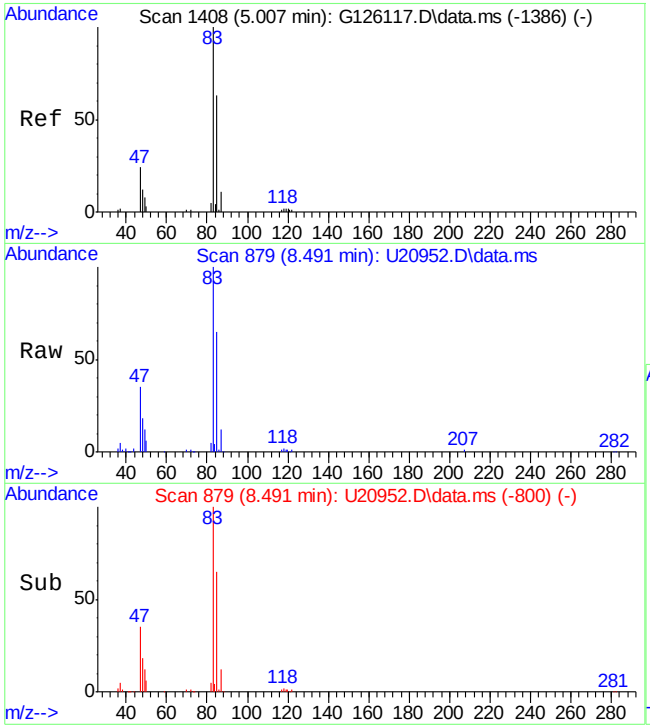


#37
cis-1,2-dichloroethene
Concen: 4.54 ppb
RT: 8.292 min Scan# 849
Delta R.T. 0.003 min
Lab File: U20952.D
Acq: 8 Jul 2014 5:54 pm

Tgt Ion: 96 Resp: 41186

Ion	Ratio	Lower	Upper
96	100		
61	155.3	126.3	186.3
98	69.7	36.2	96.2

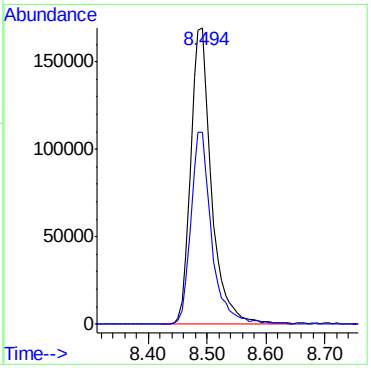


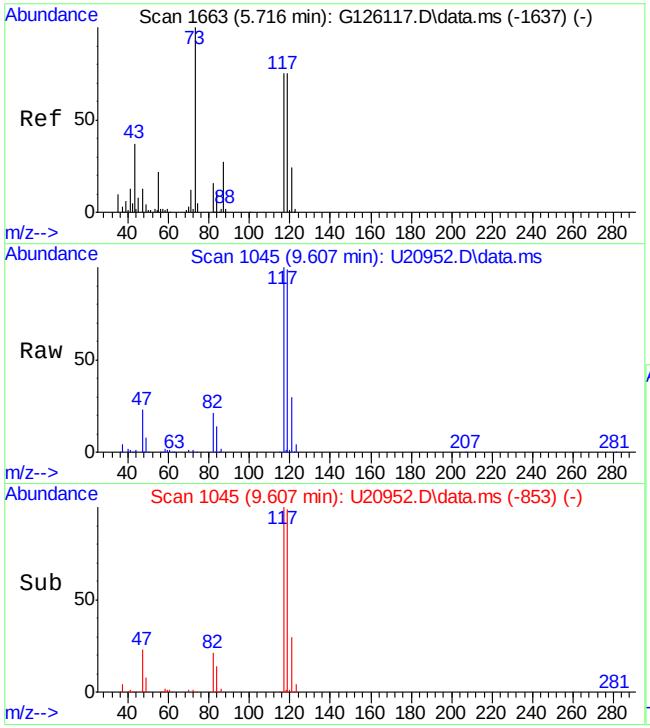


#39
chloroform
Concen: 30.92 ppb
RT: 8.494 min Scan# 879
Delta R.T. 0.002 min
Lab File: U20952.D
Acq: 8 Jul 2014 5:54 pm

Tgt Ion: 83 Resp: 413814

Ion	Ratio	Lower	Upper
83	100		
85	65.0	36.9	96.9

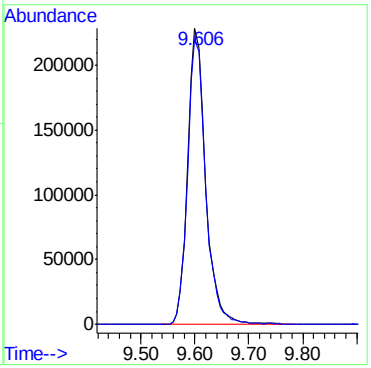


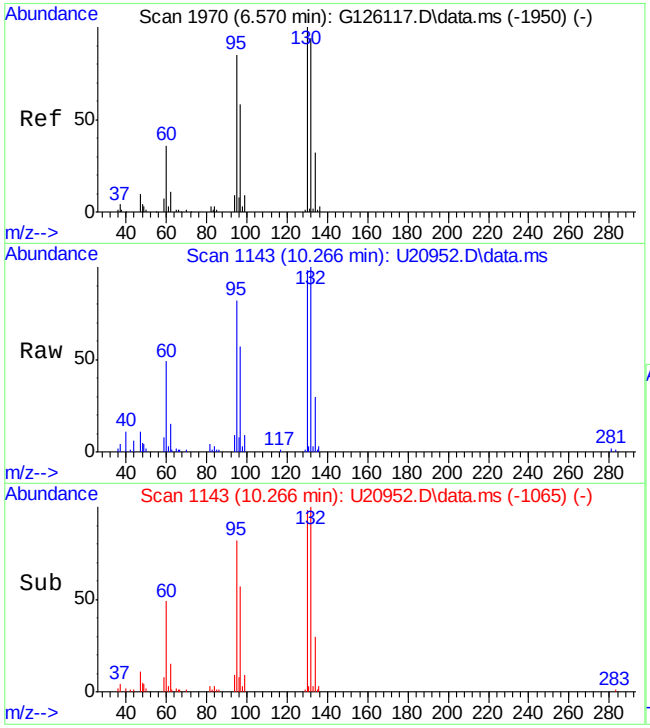


#45
carbon tetrachloride
Concen: 50.64 ppb
RT: 9.606 min Scan# 1045
Delta R.T. 0.000 min
Lab File: U20952.D
Acq: 8 Jul 2014 5:54 pm

Tgt Ion:117 Resp: 527205

Ion	Ratio	Lower	Upper
117	100		
119	98.9	64.9	124.9

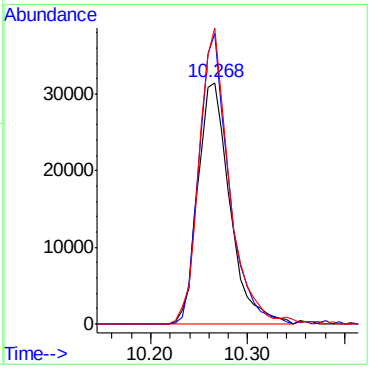




#51
trichloroethene
Concen: 9.92 ppb
RT: 10.268 min Scan# 1143
Delta R.T. 0.007 min
Lab File: U20952.D
Acq: 8 Jul 2014 5:54 pm

Tgt Ion: 95 Resp: 71775

Ion	Ratio	Lower	Upper
95	100		
130	120.1	58.8	118.8#
132	122.6	62.5	122.5#



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20937.D
Acq On : 8 Jul 2014 11:07 am
Operator : GaryK
Sample : mc31799-17
Misc : ms32230,msu937,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 08 11:29:05 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

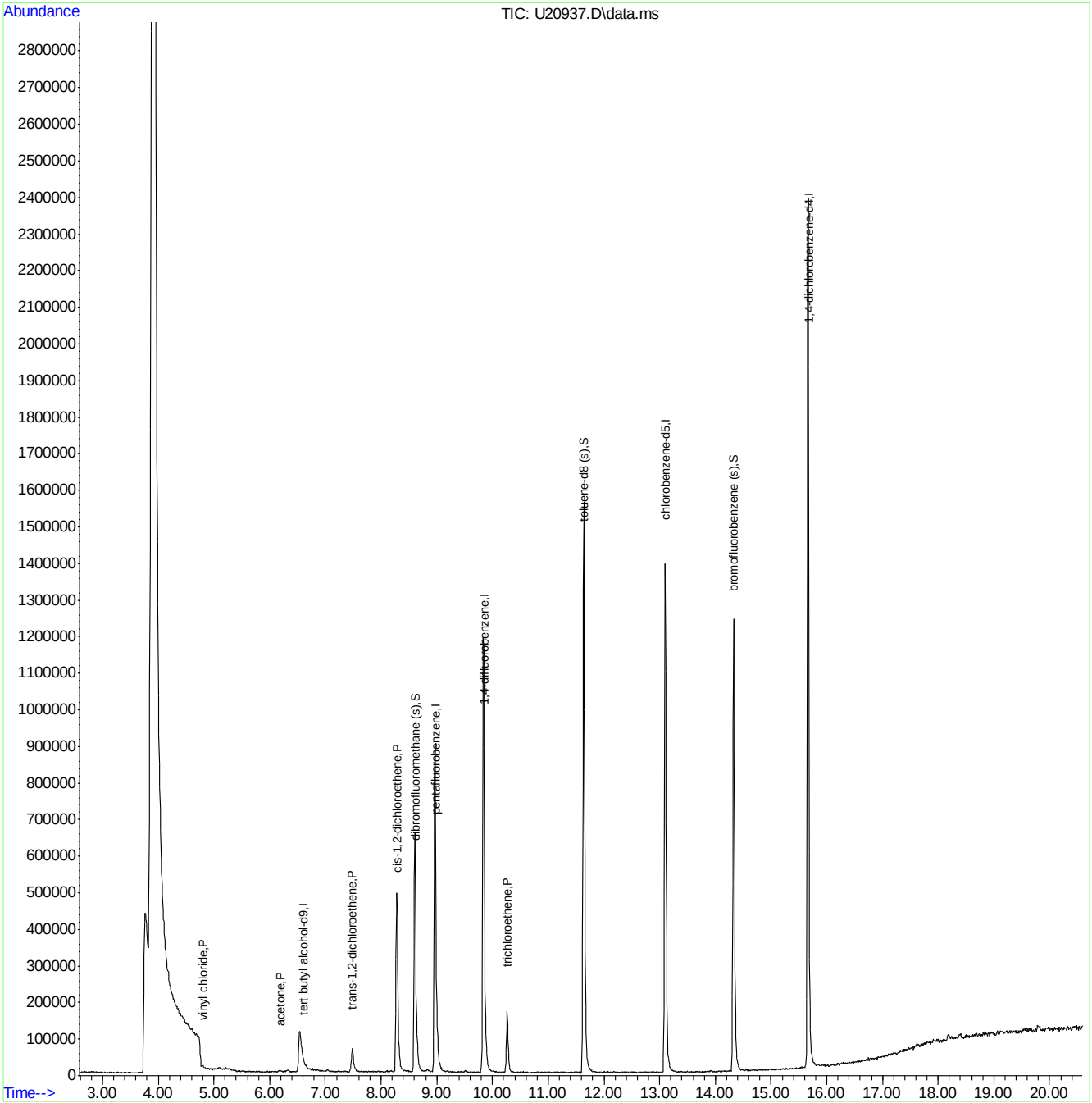
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.608	65	317953	50.00	ppb		0.01
4) pentafluorobenzene	8.979	168	764041	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.846	114	1202673	50.00	ppb		0.00
66) chlorobenzene-d5	13.105	82	441029	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.669	152	766655	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.616	113	495681	59.95	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	119.90%			
60) toluene-d8 (s)	11.644	98	1176647	51.29	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	102.58%			
82) bromofluorobenzene (s)	14.334	95	487559	50.20	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	100.40%			
Target Compounds							Qvalue
7) vinyl chloride	4.802	62	4173	0.29	ppb		94
16) acetone	6.187	58	2974	1.38	ppb	#	37
22) trans-1,2-dichloroethene	7.476	96	8115	0.82	ppb	#	66
37) cis-1,2-dichloroethene	8.291	96	242257	23.08	ppb		98
51) trichloroethene	10.267	95	60910	7.24	ppb		74

(#) = qualifier out of range (m) = manual integration (+) = signals summed

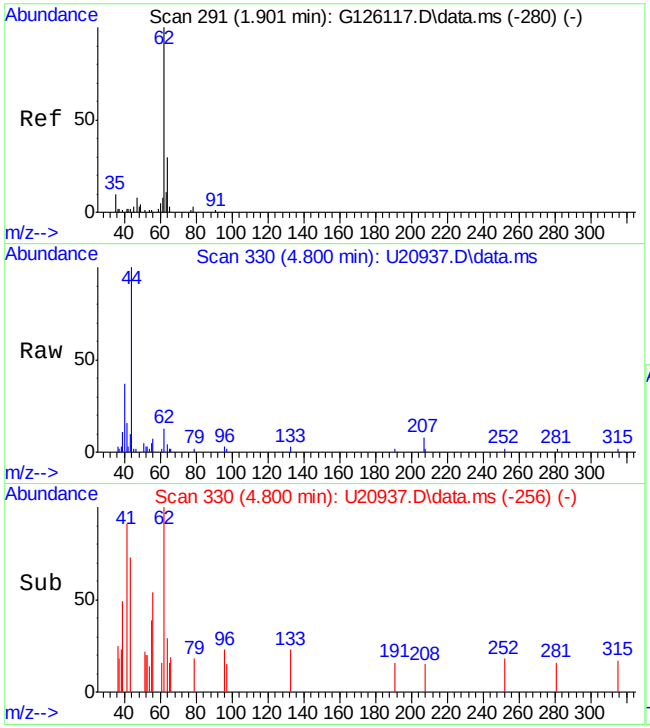
Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20937.D
Acq On : 8 Jul 2014 11:07 am
Operator : GaryK
Sample : mc31799-17
Misc : ms32230,msu937,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 08 11:29:05 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration



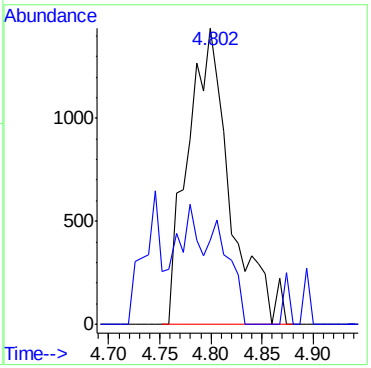
ACCUTEST LABORATORIES MC31799

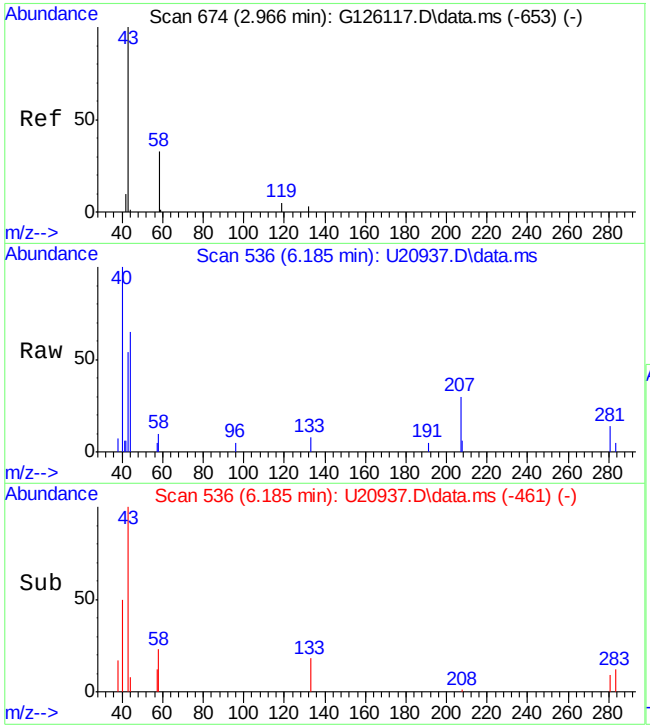


#7
vinyl chloride
Concen: 0.29 ppb
RT: 4.802 min Scan# 330
Delta R.T. 0.003 min
Lab File: U20937.D
Acq: 8 Jul 2014 11:07 am

Tgt Ion: 62 Resp: 4173

Ion	Ratio	Lower	Upper
62	100		
64	28.6	1.8	61.8

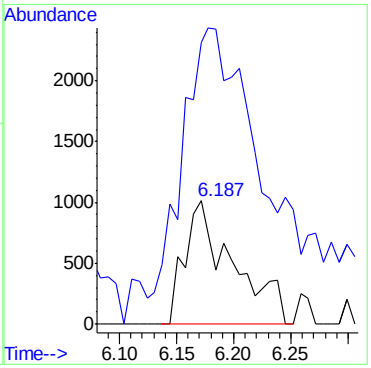


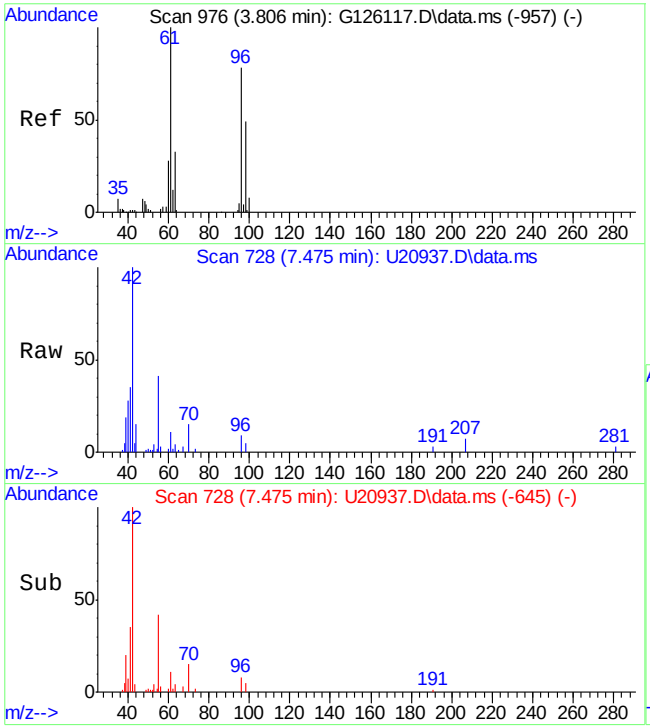


#16
acetone
Concen: 1.38 ppb
RT: 6.187 min Scan# 536
Delta R.T. 0.009 min
Lab File: U20937.D
Acq: 8 Jul 2014 11:07 am

Tgt Ion: 58 Resp: 2974

Ion	Ratio	Lower	Upper
58	100		
43	433.9	278.8	338.8#

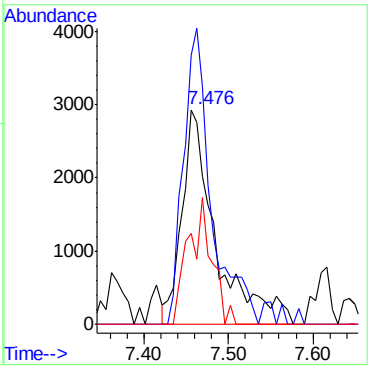


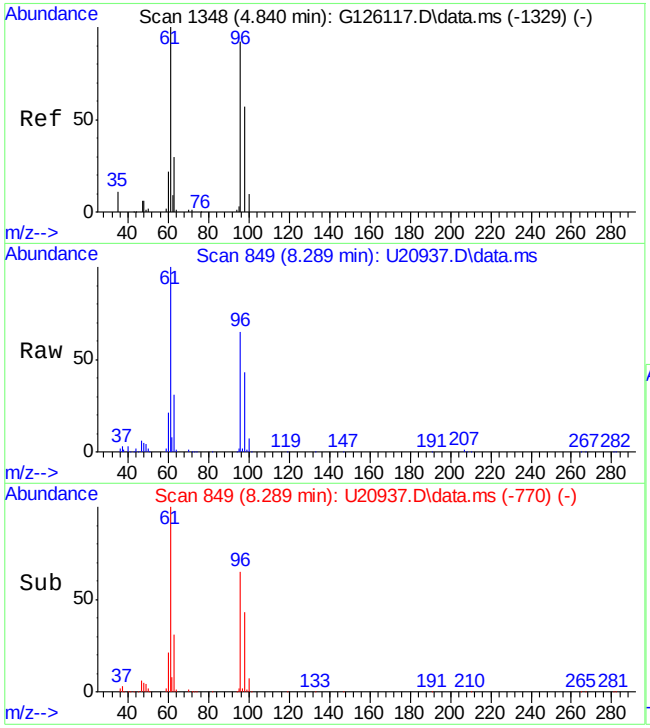


#22
trans-1,2-dichloroethene
Concen: 0.82 ppb
RT: 7.476 min Scan# 728
Delta R.T. 0.009 min
Lab File: U20937.D
Acq: 8 Jul 2014 11:07 am

Tgt Ion: 96 Resp: 8115

Ion	Ratio	Lower	Upper
96	100		
61	116.2	145.5	205.5#
98	57.3	35.2	95.2

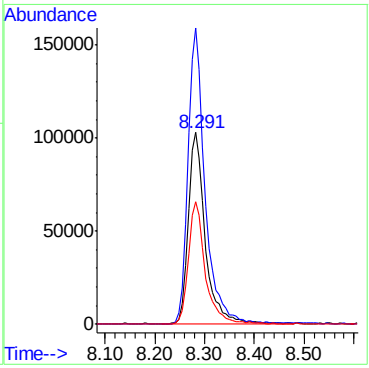


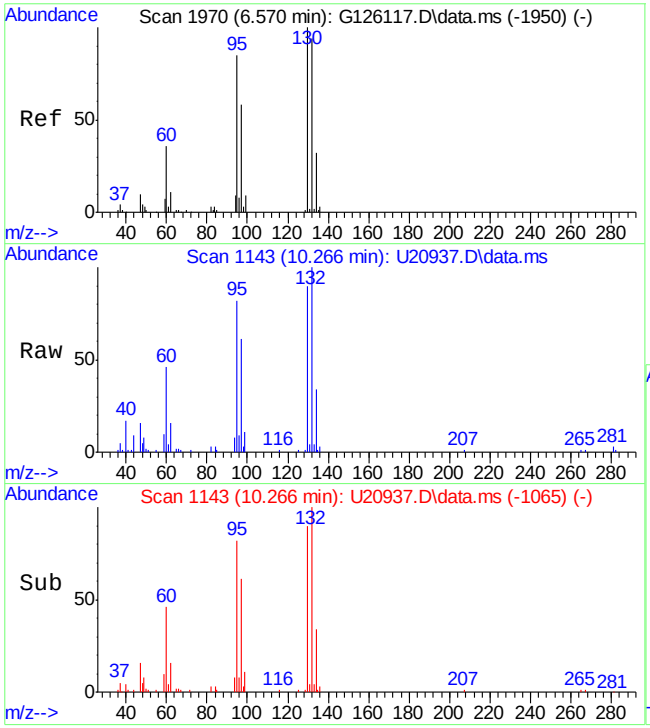


#37
cis-1,2-dichloroethene
Concen: 23.08 ppb
RT: 8.291 min Scan# 849
Delta R.T. 0.002 min
Lab File: U20937.D
Acq: 8 Jul 2014 11:07 am

Tgt Ion: 96 Resp: 242257

Ion	Ratio	Lower	Upper
96	100		
61	153.8	126.3	186.3
98	65.4	36.2	96.2

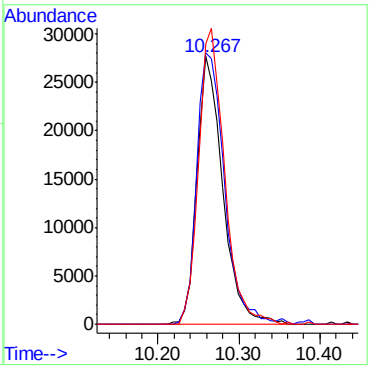




#51
trichloroethene
Concen: 7.24 ppb
RT: 10.267 min Scan# 1143
Delta R.T. 0.006 min
Lab File: U20937.D
Acq: 8 Jul 2014 11:07 am

Tgt Ion: 95 Resp: 60910

Ion	Ratio	Lower	Upper
95	100		
130	109.2	58.8	118.8
132	121.9	62.5	122.5



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20849.D
Acq On : 3 Jul 2014 6:23 pm
Operator : GaryK
Sample : mc31799-18
Misc : ms32217,msu934,,,,5,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 05 09:24:55 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

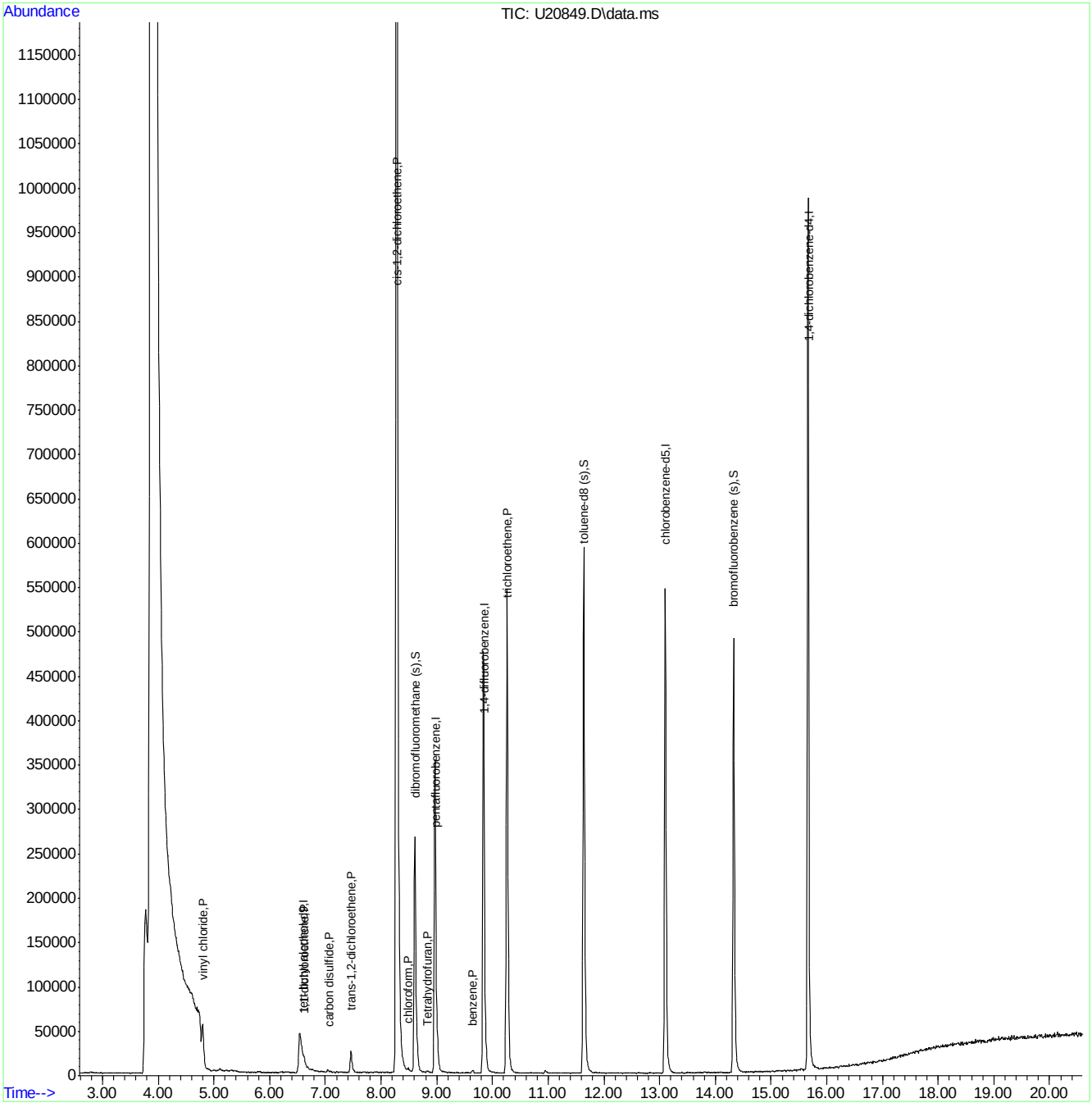
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.610	65	139047	50.00	ppb		0.01
4) pentafluorobenzene	8.978	168	303555	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.846	114	475742	50.00	ppb		0.00
66) chlorobenzene-d5	13.106	82	172779	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.668	152	312650	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.615	113	202380	61.60	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 123.20%				
60) toluene-d8 (s)	11.644	98	458969	50.58	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.16%				
82) bromofluorobenzene (s)	14.334	95	192305	48.56	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 97.12%				
Target Compounds							Qvalue
7) vinyl chloride	4.800	62	84128	14.59	ppb		100
15) 1,1-dichloroethene	6.622	96	2156	0.63	ppb	#	74
22) trans-1,2-dichloroethene	7.468	96	12071	3.06	ppb		87
24) carbon disulfide	7.068	76	6146	0.60	ppb		76
37) cis-1,2-dichloroethene	8.289	96	863735	207.16	ppb		95
39) chloroform	8.491	83	1576	0.26	ppb		93
41) Tetrahydrofuran	8.837	42	2284	1.90	ppb	#	42
47) benzene	9.645	78	3766	0.34	ppb		51
51) trichloroethene	10.264	95	186227	55.95	ppb	#	69

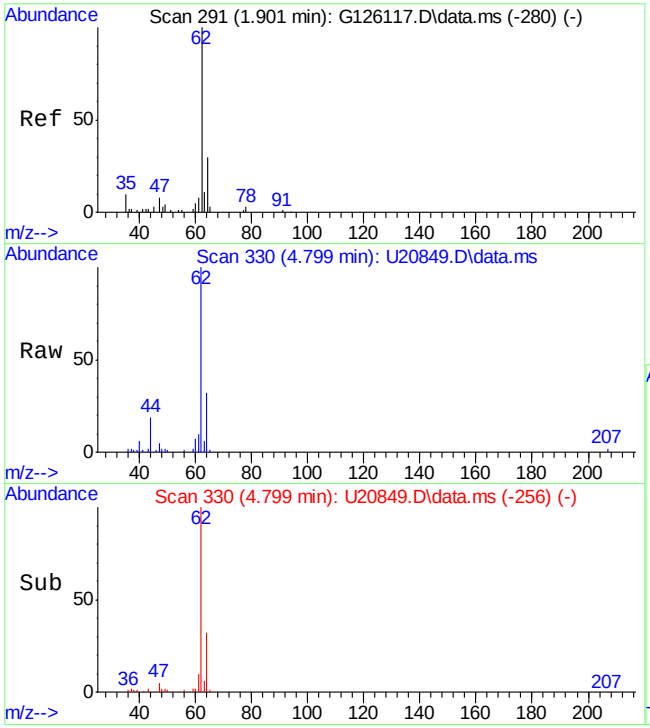
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20849.D
Acq On : 3 Jul 2014 6:23 pm
Operator : GaryK
Sample : mc31799-18
Misc : ms32217,msu934,,,,5,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 05 09:24:55 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

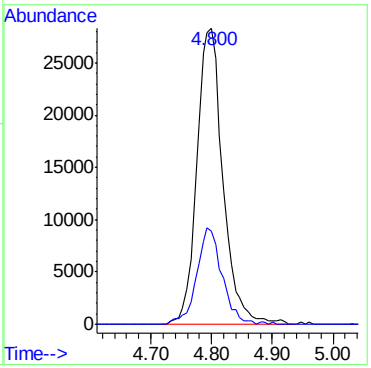


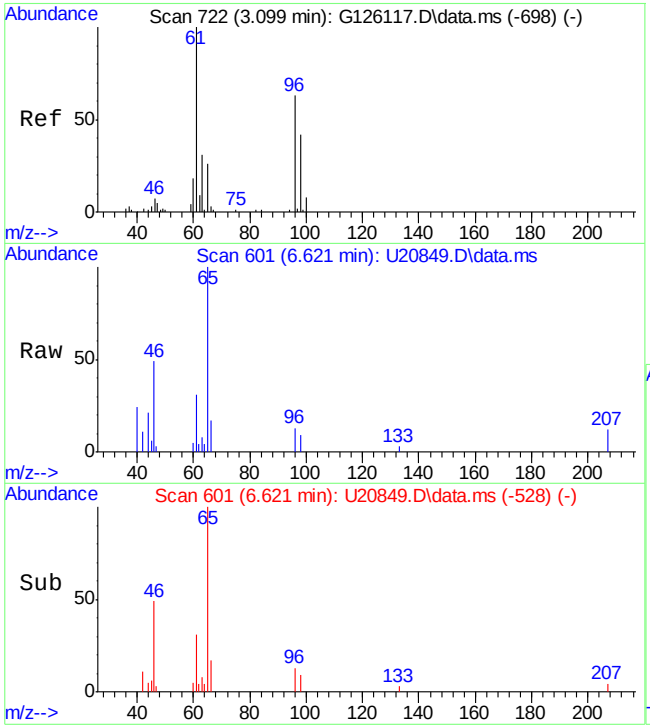


#7
vinyl chloride
Concen: 14.59 ppb
RT: 4.800 min Scan# 330
Delta R.T. 0.001 min
Lab File: U20849.D
Acq: 3 Jul 2014 6:23 pm

Tgt Ion: 62 Resp: 84128

Ion	Ratio	Lower	Upper
62	100		
64	31.6	1.8	61.8

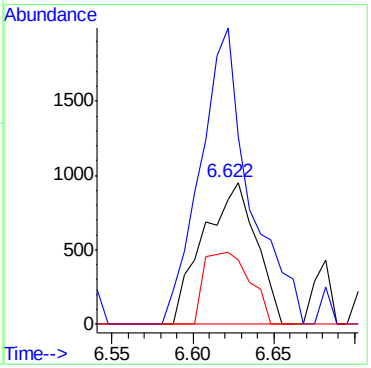


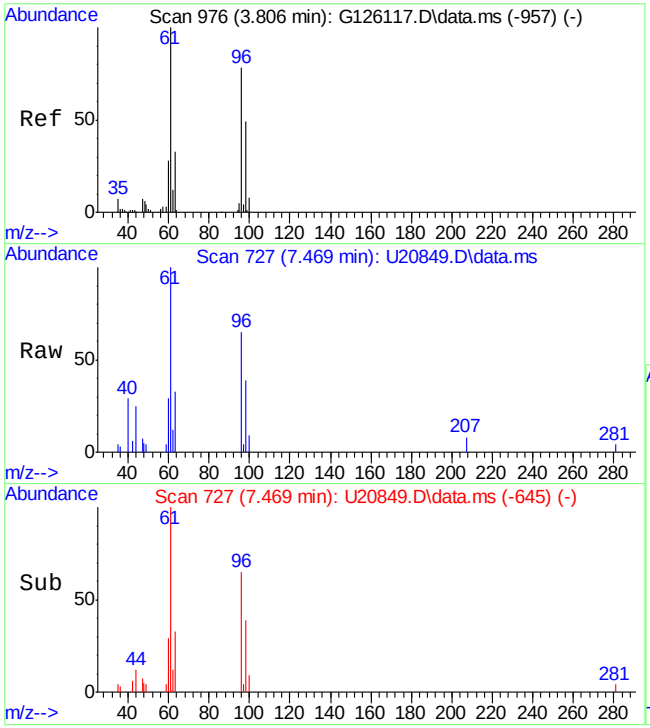


#15
1,1-dichloroethene
Concen: 0.63 ppb
RT: 6.622 min Scan# 601
Delta R.T. -0.007 min
Lab File: U20849.D
Acq: 3 Jul 2014 6:23 pm

Tgt Ion: 96 Resp: 2156

Ion	Ratio	Lower	Upper
96	100		
61	237.4	158.7	218.7#
63	57.3	27.6	87.6

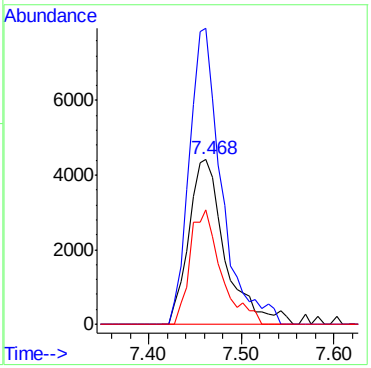


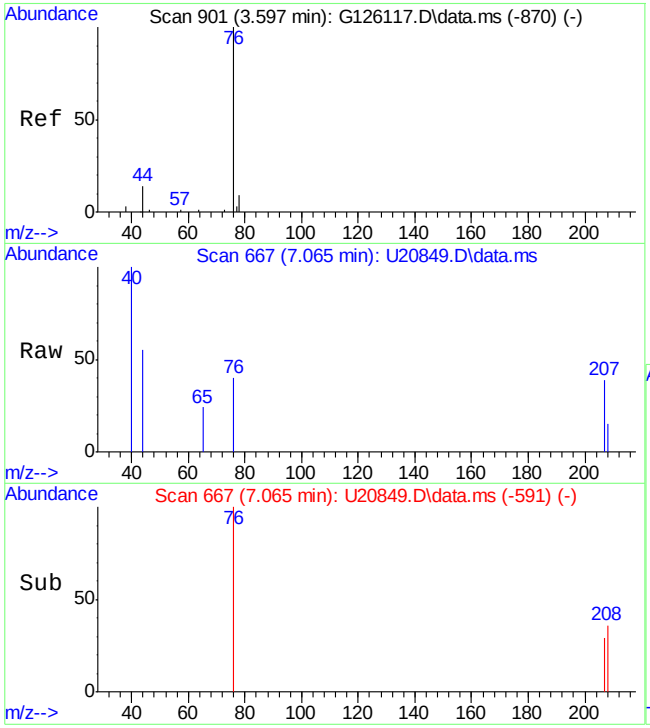


#22
trans-1,2-dichloroethene
Concen: 3.06 ppb
RT: 7.468 min Scan# 727
Delta R.T. 0.001 min
Lab File: U20849.D
Acq: 3 Jul 2014 6:23 pm

Tgt Ion: 96 Resp: 12071

Ion	Ratio	Lower	Upper
96	100		
61	153.3	145.5	205.5
98	59.9	35.2	95.2

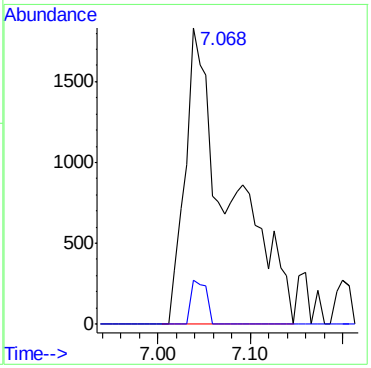


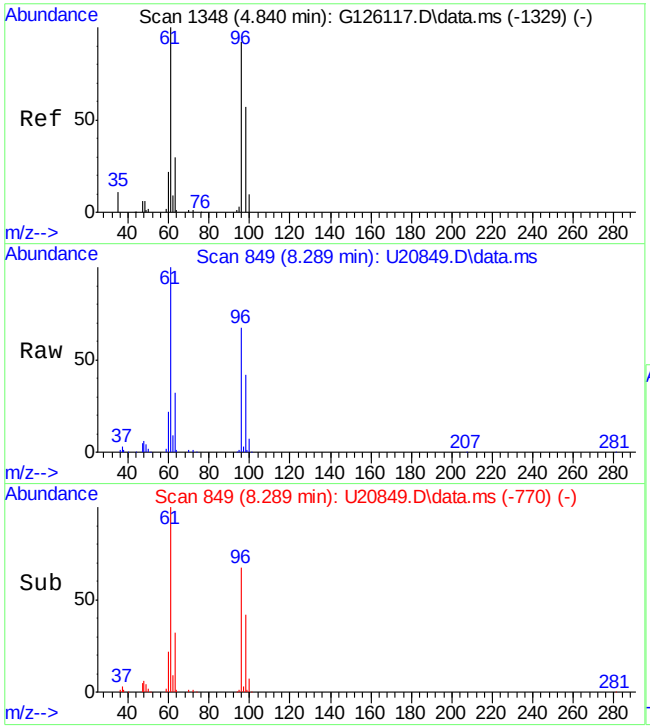


#24
carbon disulfide
Concen: 0.60 ppb
RT: 7.068 min Scan# 667
Delta R.T. 0.015 min
Lab File: U20849.D
Acq: 3 Jul 2014 6:23 pm

Tgt Ion: 76 Resp: 6146

Ion	Ratio	Lower	Upper
76	100		
78	0.0	0.0	38.8

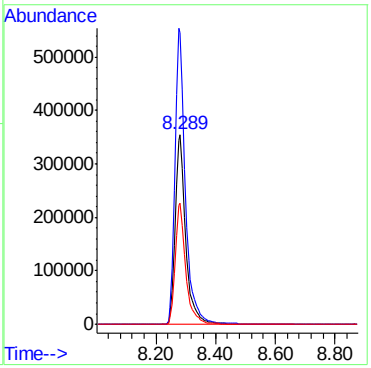


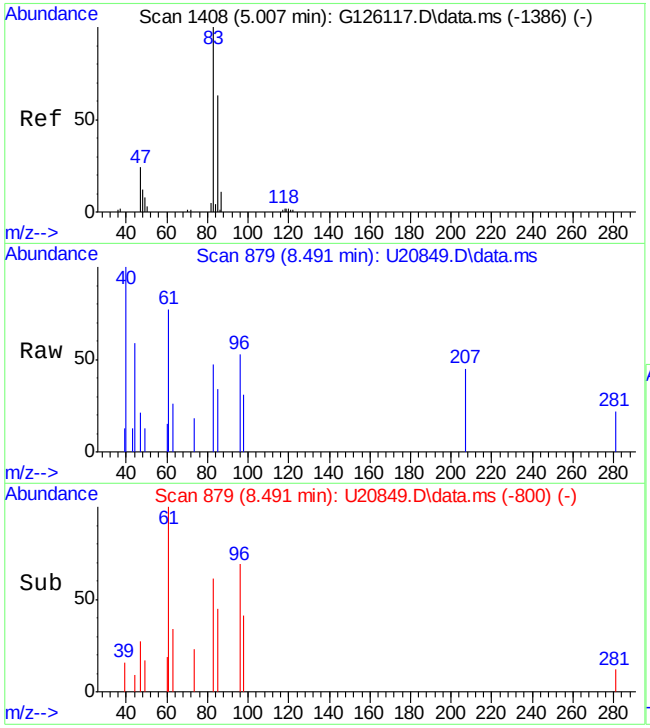


#37
cis-1,2-dichloroethene
Concen: 207.16 ppb
RT: 8.289 min Scan# 849
Delta R.T. 0.000 min
Lab File: U20849.D
Acq: 3 Jul 2014 6:23 pm

Tgt Ion: 96 Resp: 863735

Ion	Ratio	Lower	Upper
96	100		
61	150.0	126.3	186.3
98	62.8	36.2	96.2

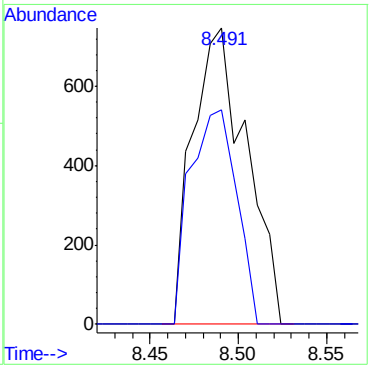


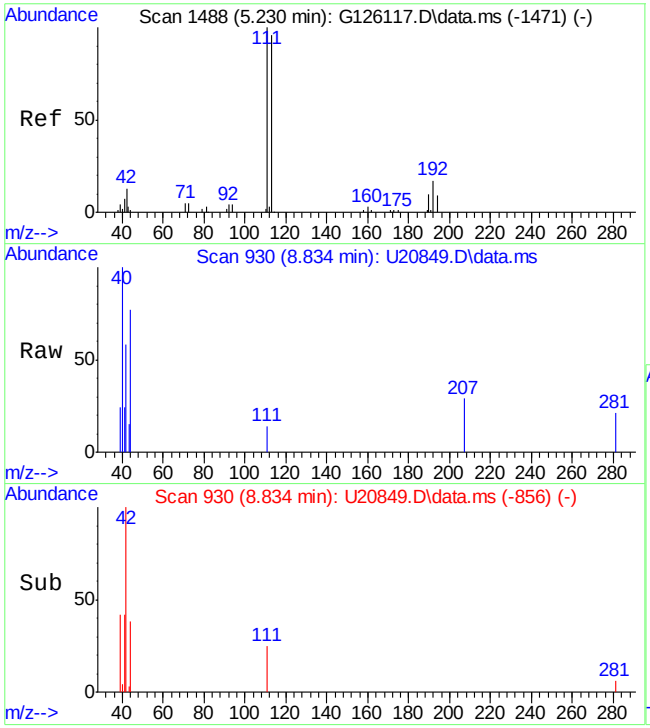


#39
chloroform
Concen: 0.26 ppb
RT: 8.491 min Scan# 879
Delta R.T. -0.001 min
Lab File: U20849.D
Acq: 3 Jul 2014 6:23 pm

Tgt Ion: 83 Resp: 1576

Ion	Ratio	Lower	Upper
83	100		
85	72.6	36.9	96.9

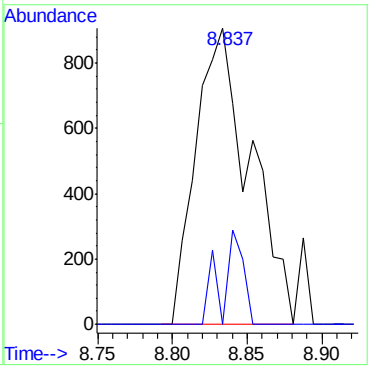


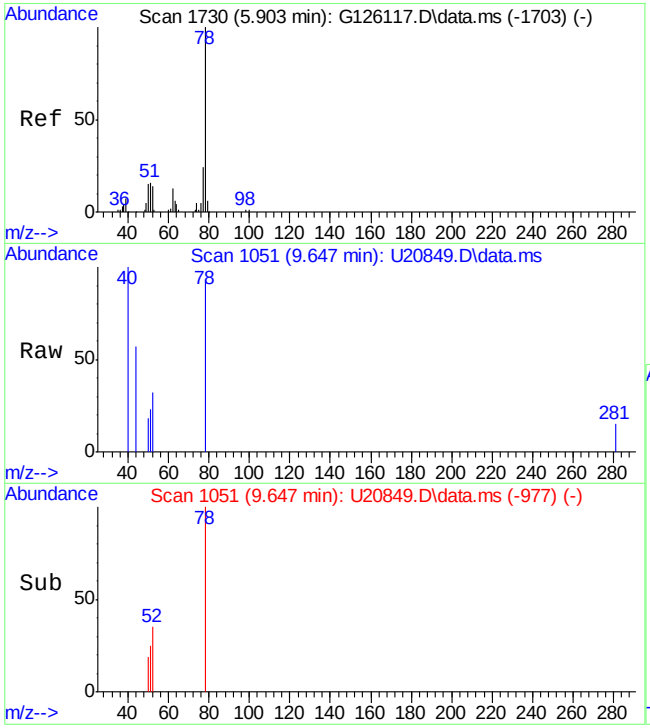


#41
Tetrahydrofuran
Concen: 1.90 ppb
RT: 8.837 min Scan# 930
Delta R.T. 0.003 min
Lab File: U20849.D
Acq: 3 Jul 2014 6:23 pm

Tgt Ion: 42 Resp: 2284

Ion	Ratio	Lower	Upper
42	100		
72	0.0	2.9	62.9#

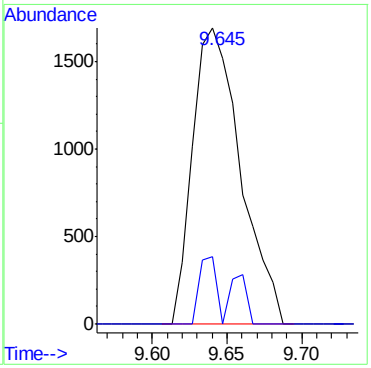


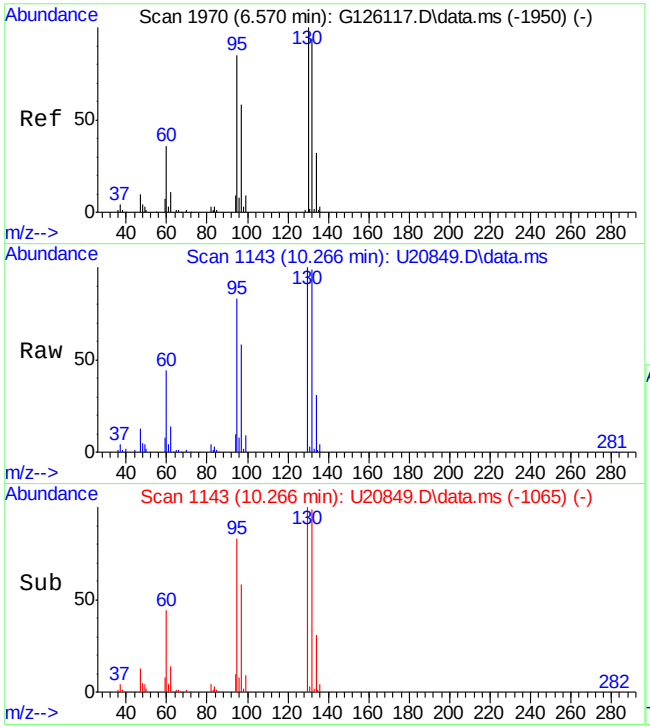


#47
benzene
Concen: 0.34 ppb
RT: 9.645 min Scan# 1051
Delta R.T. 0.004 min
Lab File: U20849.D
Acq: 3 Jul 2014 6:23 pm

Tgt Ion: 78 Resp: 3766

Ion	Ratio	Lower	Upper
78	100		
77	0.0	0.0	53.9

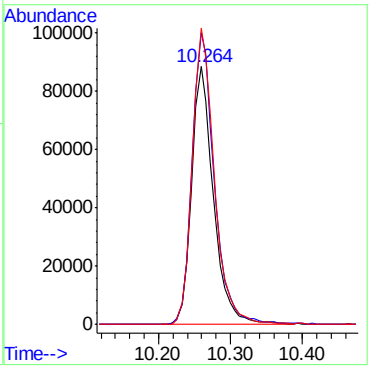




#51
trichloroethene
Concen: 55.95 ppb
RT: 10.264 min Scan# 1143
Delta R.T. 0.003 min
Lab File: U20849.D
Acq: 3 Jul 2014 6:23 pm

Tgt Ion: 95 Resp: 186227

Ion	Ratio	Lower	Upper
95	100		
130	121.1	58.8	118.8#
132	119.5	62.5	122.5



Manual Integrations APPROVED (compounds with "m" flag)
Tomasz Torski
07/09/14 08:30

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20949.D
Acq On : 8 Jul 2014 4:32 pm
Operator : GaryK
Sample : mc31799-19
Misc : ms32230,msu937,,,,5,5
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 09 07:40:08 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

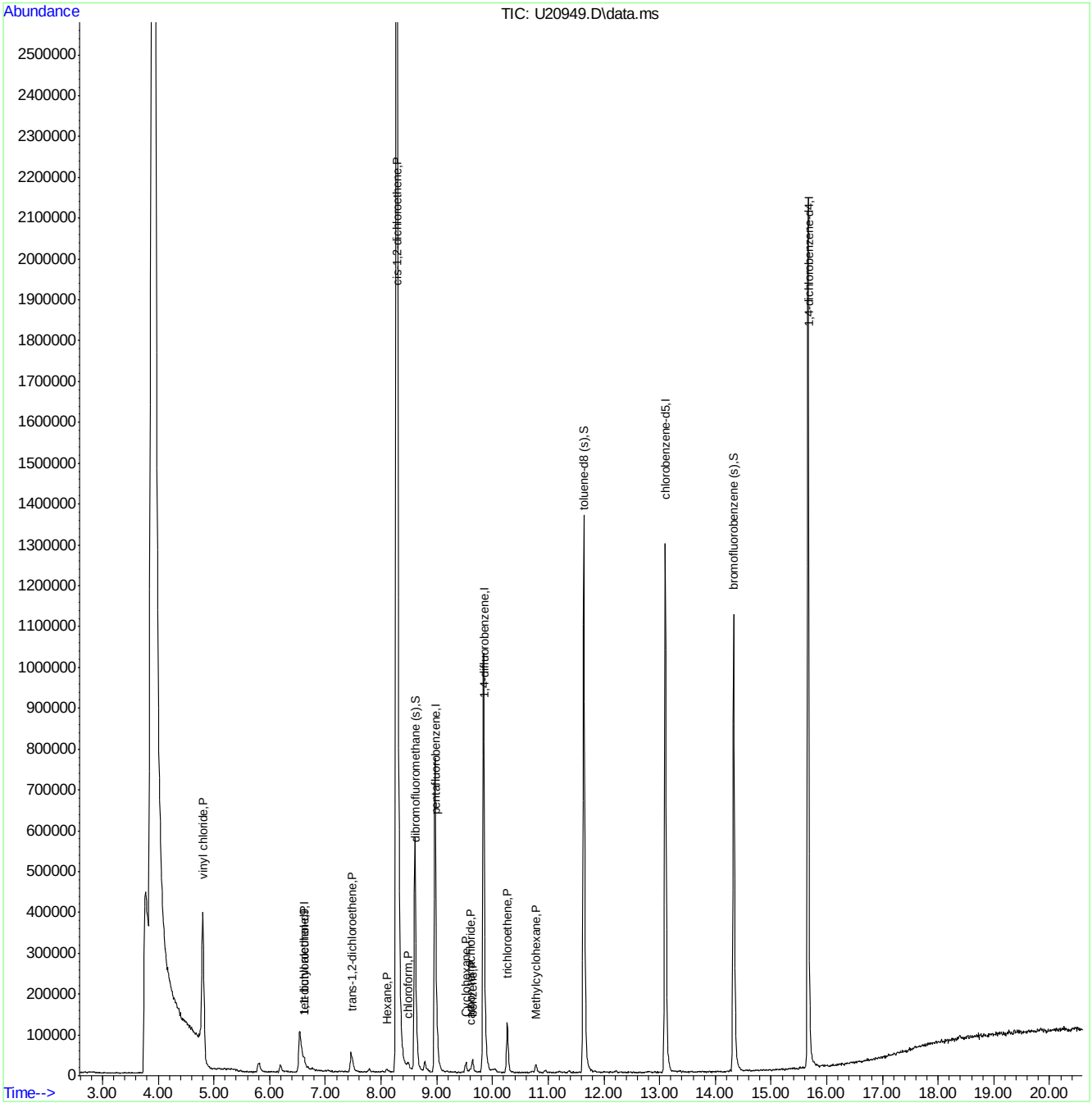
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.614	65	275837	50.00	ppb		0.02
4) pentafluorobenzene	8.980	168	647152	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.847	114	1039834	50.00	ppb		0.00
66) chlorobenzene-d5	13.105	82	404230	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.669	152	668016	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.618	113	433660	61.92	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 123.84%				
60) toluene-d8 (s)	11.645	98	1038655	52.37	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 104.74%				
82) bromofluorobenzene (s)	14.335	95	426534	50.41	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.82%				
Target Compounds							Qvalue
7) vinyl chloride	4.804	62	676135	55.00	ppb		96
15) 1,1-dichloroethene	6.628	96	6032m	0.82	ppb		
22) trans-1,2-dichloroethene	7.472	96	18641	2.22	ppb	#	84
32) Hexane	8.105	41	4092	0.31	ppb	#	90
37) cis-1,2-dichloroethene	8.291	96	2479546	278.96	ppb		99
39) chloroform	8.493	83	10020	0.76	ppb		82
44) Cyclohexane	9.525	56	15055	0.97	ppb	#	79
45) carbon tetrachloride	9.607	117	4523	0.43	ppb		78
47) benzene	9.647	78	27177	1.13	ppb		95
51) trichloroethene	10.269	95	43870	6.03	ppb		88
55) Methylcyclohexane	10.783	83	7182	0.66	ppb		85

(#) = qualifier out of range (m) = manual integration (+) = signals summed

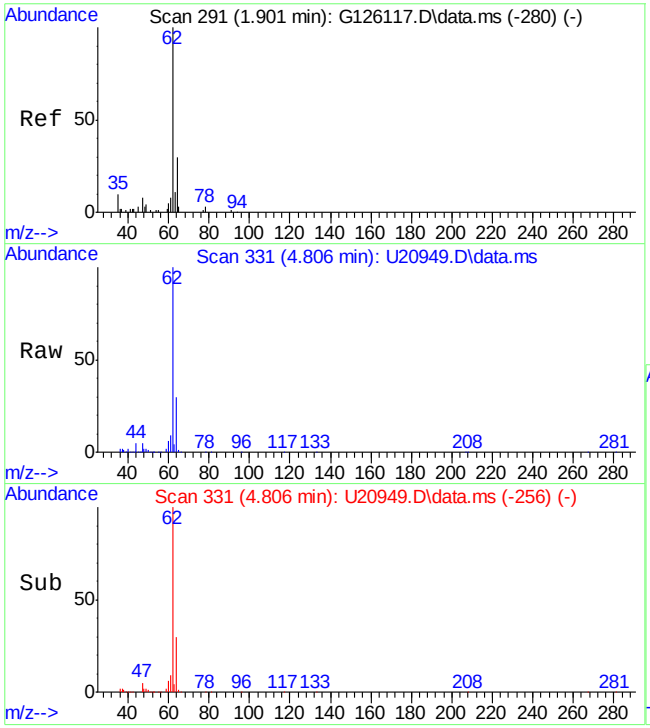
Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20949.D
Acq On : 8 Jul 2014 4:32 pm
Operator : GaryK
Sample : mc31799-19
Misc : ms32230,msu937,,,,5,5
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 09 07:40:08 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration



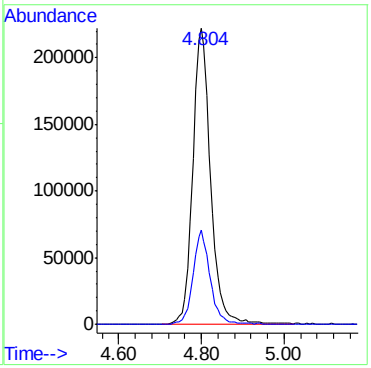
ACCUTEST LABORATORIES MC31799

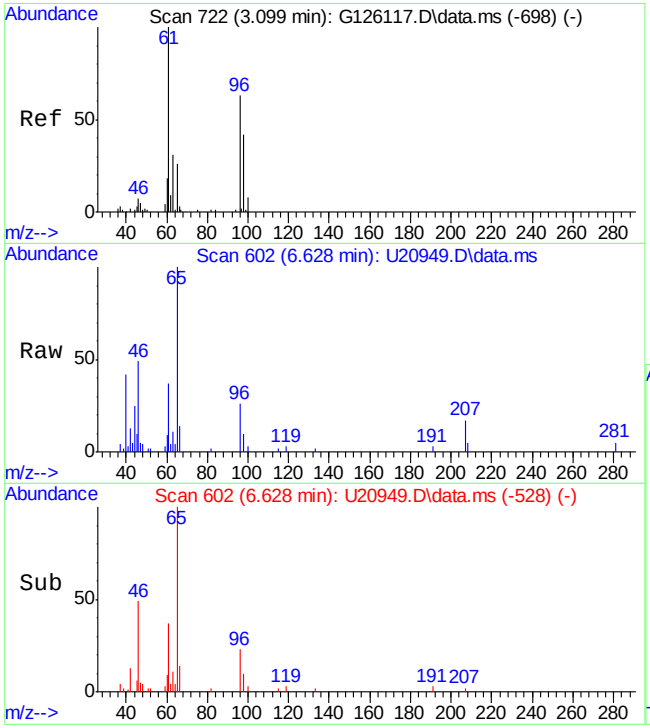


#7
vinyl chloride
Concen: 55.00 ppb
RT: 4.804 min Scan# 331
Delta R.T. 0.005 min
Lab File: U20949.D
Acq: 8 Jul 2014 4:32 pm

Tgt Ion: 62 Resp: 676135

Ion	Ratio	Lower	Upper
62	100		
64	29.7	1.8	61.8

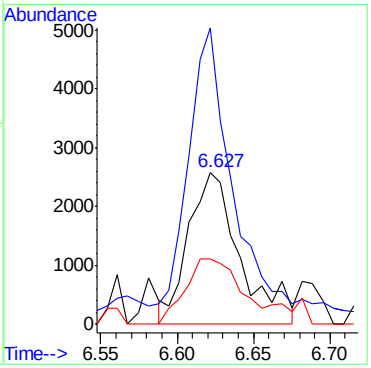


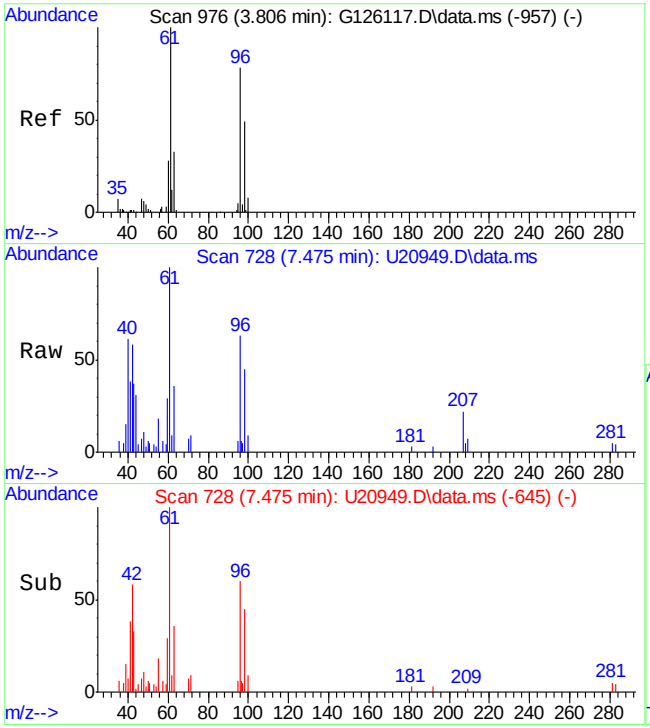


#15
1,1-dichloroethene
Concen: 0.82 ppb m
RT: 6.628 min Scan# 602
Delta R.T. -0.001 min
Lab File: U20949.D
Acq: 8 Jul 2014 4:32 pm

Tgt Ion: 96 Resp: 6032

Ion	Ratio	Lower	Upper
96	100		
61	143.3	158.7	218.7#
63	43.0	27.6	87.6

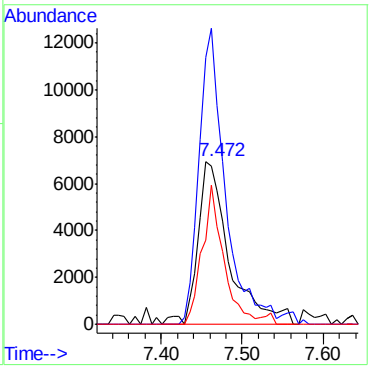


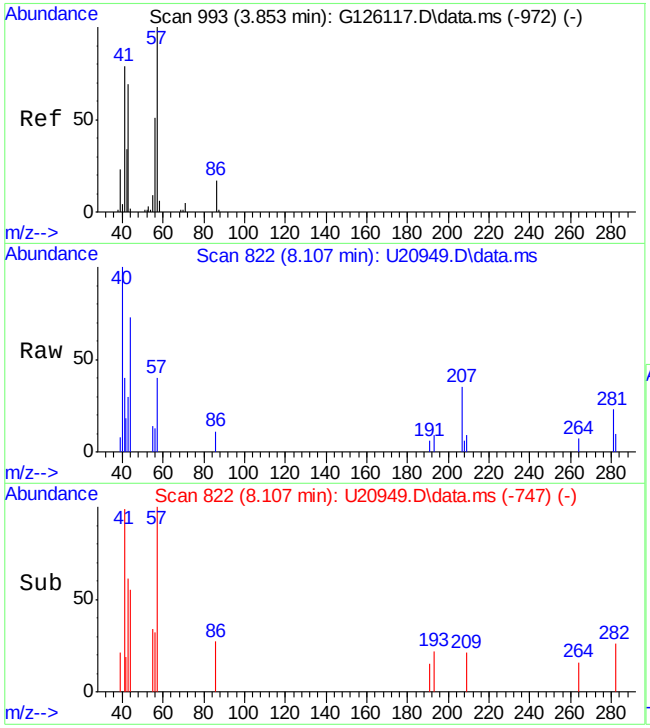


#22
trans-1,2-dichloroethene
Concen: 2.22 ppb
RT: 7.472 min Scan# 728
Delta R.T. 0.005 min
Lab File: U20949.D
Acq: 8 Jul 2014 4:32 pm

Tgt Ion: 96 Resp: 18641

Ion	Ratio	Lower	Upper
96	100		
61	145.2	145.5	205.5#
98	65.1	35.2	95.2

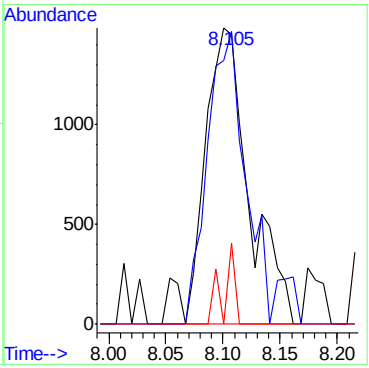


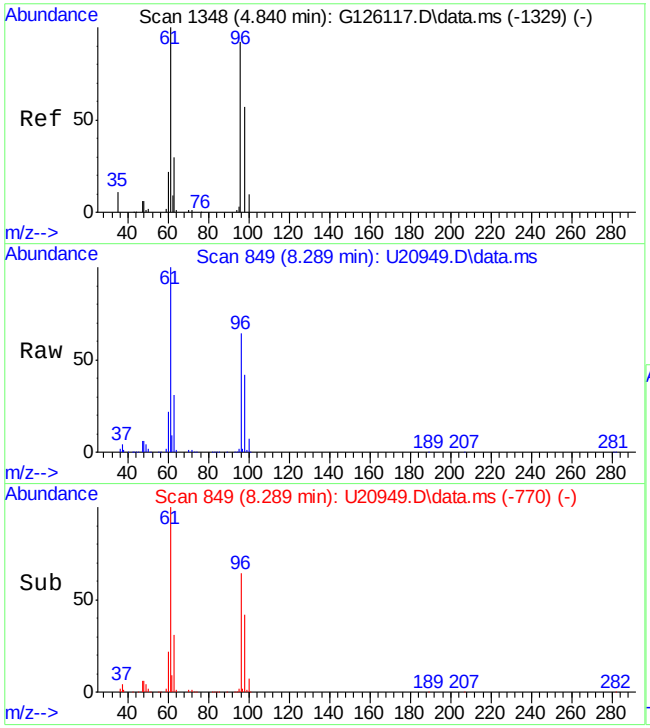


#32
Hexane
Concen: 0.31 ppb
RT: 8.105 min Scan# 822
Delta R.T. 0.000 min
Lab File: U20949.D
Acq: 8 Jul 2014 4:32 pm

Tgt Ion: 41 Resp: 4092

Ion	Ratio	Lower	Upper
41	100		
57	101.5	76.6	114.8
86	27.8	9.0	13.6#

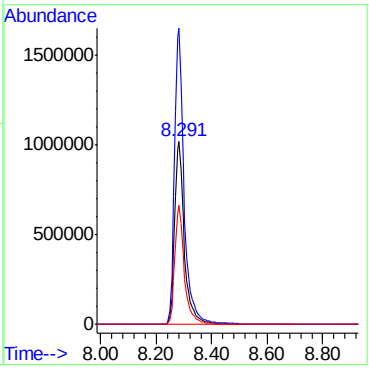


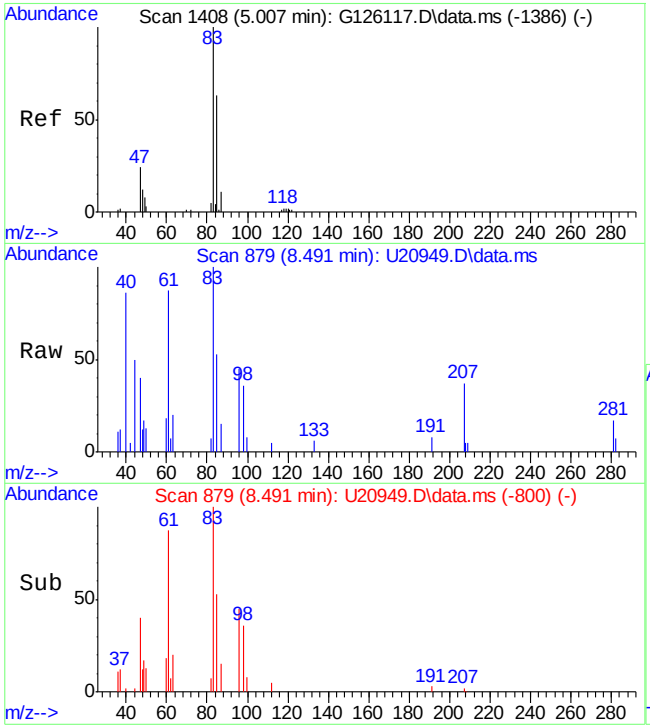


#37
cis-1,2-dichloroethene
Concen: 278.96 ppb
RT: 8.291 min Scan# 849
Delta R.T. 0.002 min
Lab File: U20949.D
Acq: 8 Jul 2014 4:32 pm

Tgt Ion: 96 Resp: 2479546

Ion	Ratio	Lower	Upper
96	100		
61	155.8	126.3	186.3
98	64.9	36.2	96.2

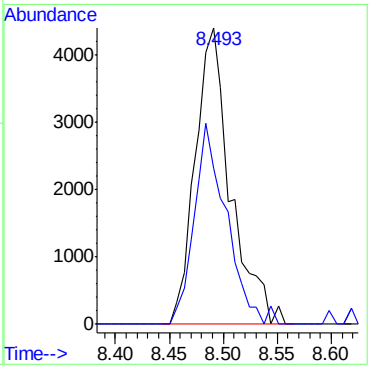


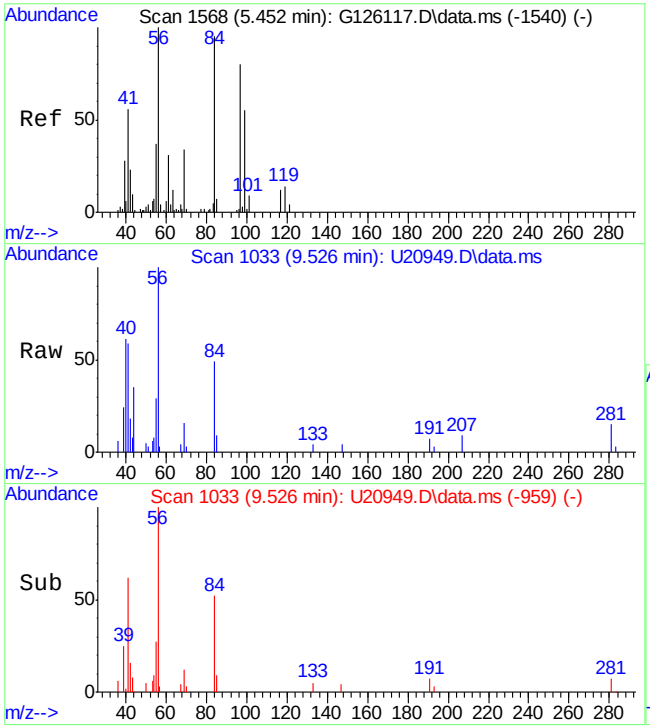


#39
chloroform
Concen: 0.76 ppb
RT: 8.493 min Scan# 879
Delta R.T. 0.001 min
Lab File: U20949.D
Acq: 8 Jul 2014 4:32 pm

Tgt Ion: 83 Resp: 10020

Ion	Ratio	Lower	Upper
83	100		
85	52.5	36.9	96.9

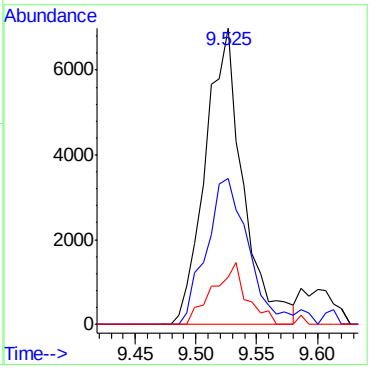


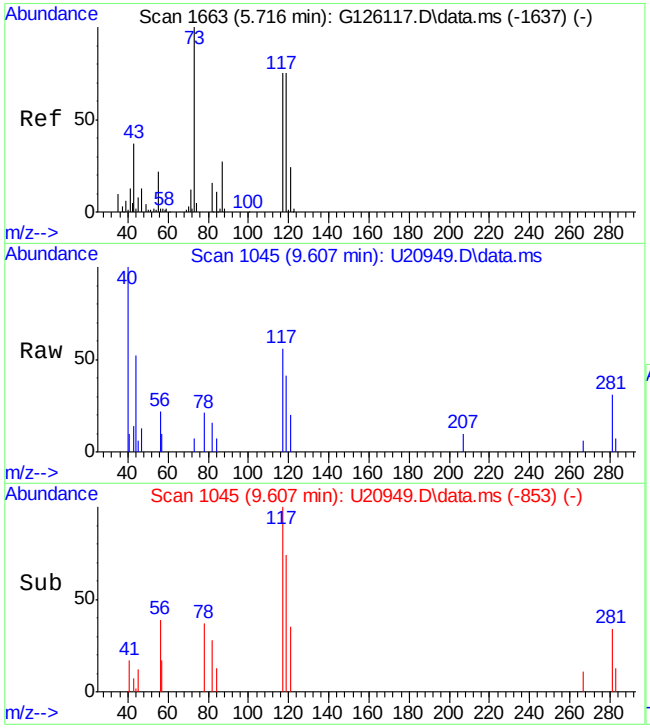


#44
Cyclohexane
Concen: 0.97 ppb
RT: 9.525 min Scan# 1033
Delta R.T. -0.001 min
Lab File: U20949.D
Acq: 8 Jul 2014 4:32 pm

Tgt Ion: 56 Resp: 15055

Ion	Ratio	Lower	Upper
56	100		
84	49.4	54.2	81.2#
69	15.9	18.3	27.5#

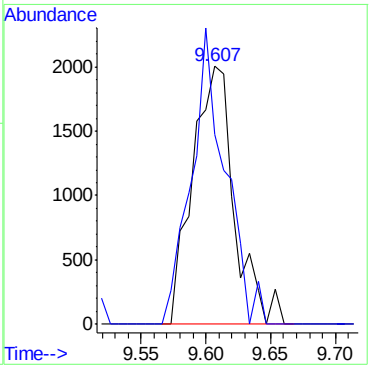


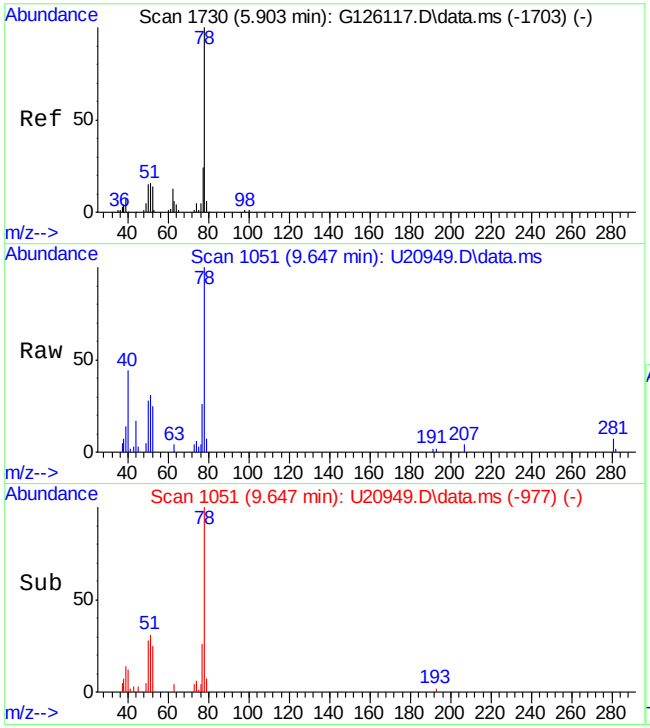


#45
carbon tetrachloride
Concen: 0.43 ppb
RT: 9.607 min Scan# 1045
Delta R.T. 0.001 min
Lab File: U20949.D
Acq: 8 Jul 2014 4:32 pm

Tgt Ion:117 Resp: 4523

Ion	Ratio	Lower	Upper
117	100		
119	73.7	64.9	124.9

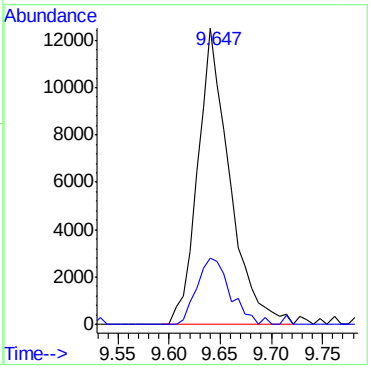


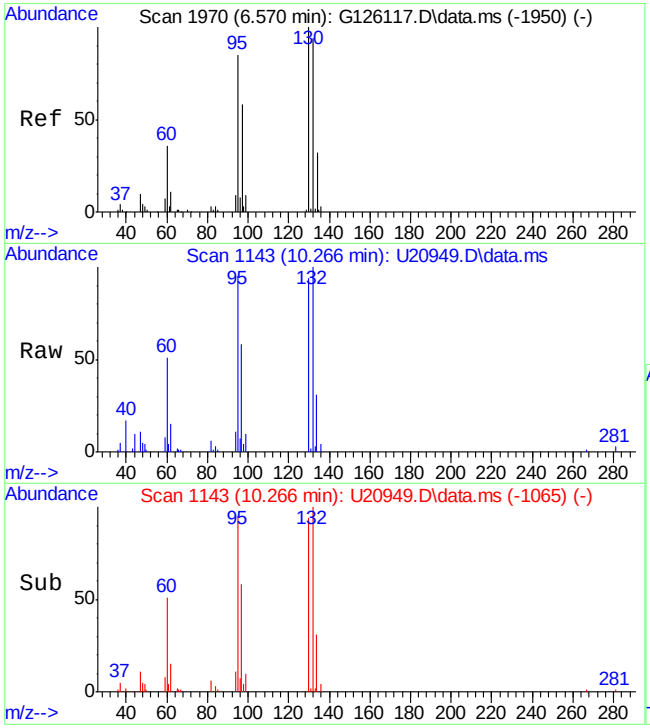


#47
benzene
Concen: 1.13 ppb
RT: 9.647 min Scan# 1051
Delta R.T. 0.006 min
Lab File: U20949.D
Acq: 8 Jul 2014 4:32 pm

Tgt Ion: 78 Resp: 27177

Ion	Ratio	Lower	Upper
78	100		
77	26.2	0.0	53.9

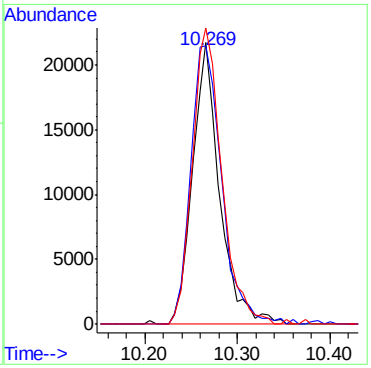


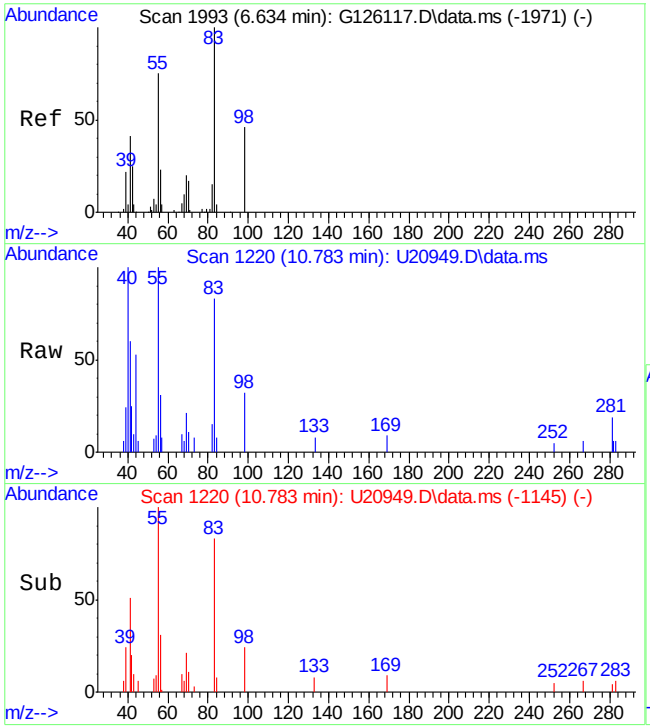


#51
trichloroethene
Concen: 6.03 ppb
RT: 10.269 min Scan# 1143
Delta R.T. 0.008 min
Lab File: U20949.D
Acq: 8 Jul 2014 4:32 pm

Tgt Ion: 95 Resp: 43870

Ion	Ratio	Lower	Upper
95	100		
130	99.0	58.8	118.8
132	105.2	62.5	122.5

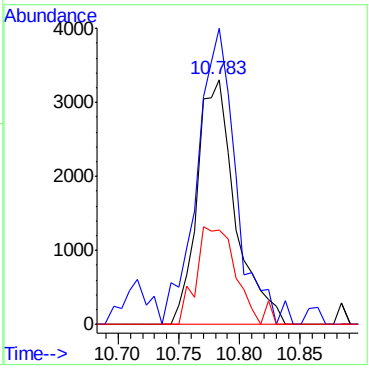




#55
Methylcyclohexane
Concen: 0.66 ppb
RT: 10.783 min Scan# 1220
Delta R.T. 0.004 min
Lab File: U20949.D
Acq: 8 Jul 2014 4:32 pm

Tgt Ion: 83 Resp: 7182

Ion	Ratio	Lower	Upper
83	100		
55	120.9	81.4	122.2
98	38.3	34.2	51.2



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20938.D
Acq On : 8 Jul 2014 11:34 am
Operator : GaryK
Sample : mc31799-20
Misc : ms32230,msu937,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 08 13:01:24 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

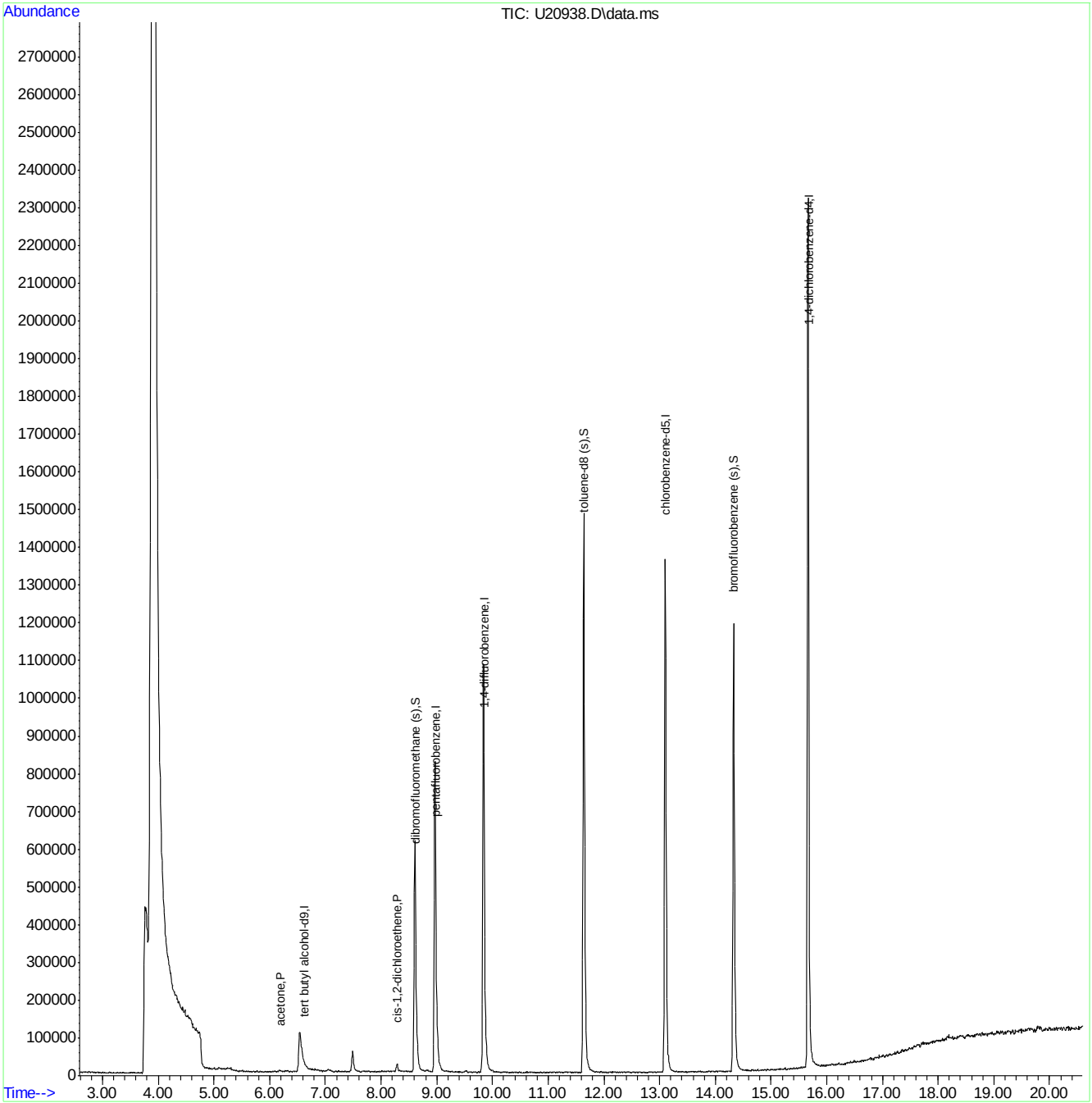
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.614	65	305945	50.00	ppb		0.02
4) pentafluorobenzene	8.980	168	702313	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.847	114	1114228	50.00	ppb		0.00
66) chlorobenzene-d5	13.105	82	437174	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.668	152	737678	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.617	113	470546	61.91	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 123.82%				
60) toluene-d8 (s)	11.645	98	1124743	52.92	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 105.84%				
82) bromofluorobenzene (s)	14.335	95	467379	50.02	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.04%				
Target Compounds							Qvalue
16) acetone	6.189	58	2222	1.12	ppb	#	78
37) cis-1,2-dichloroethene	8.294	96	10654	1.10	ppb		89

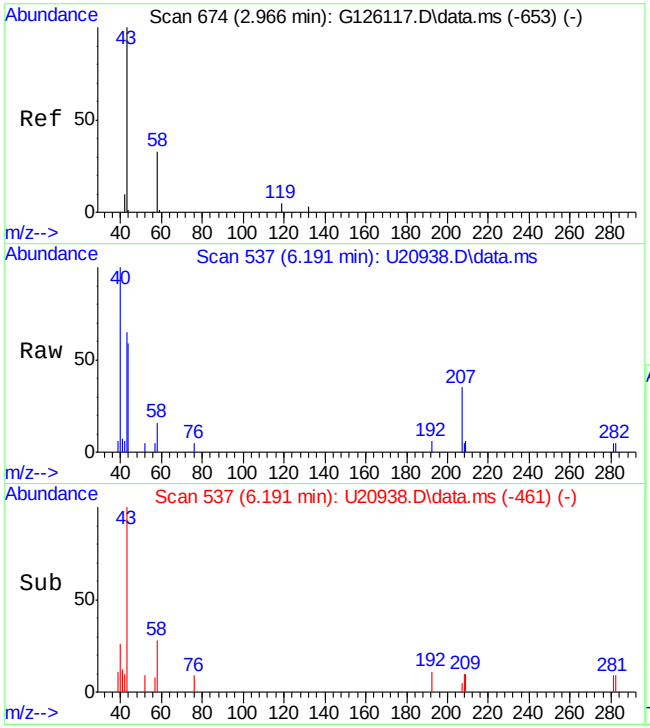
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20938.D
Acq On : 8 Jul 2014 11:34 am
Operator : GaryK
Sample : mc31799-20
Misc : ms32230,msu937,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 08 13:01:24 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

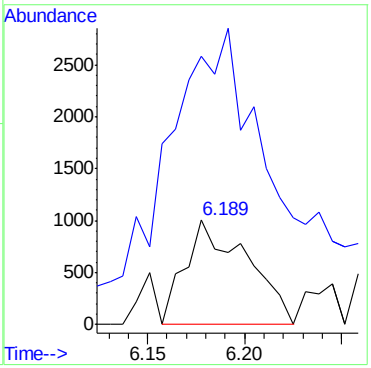


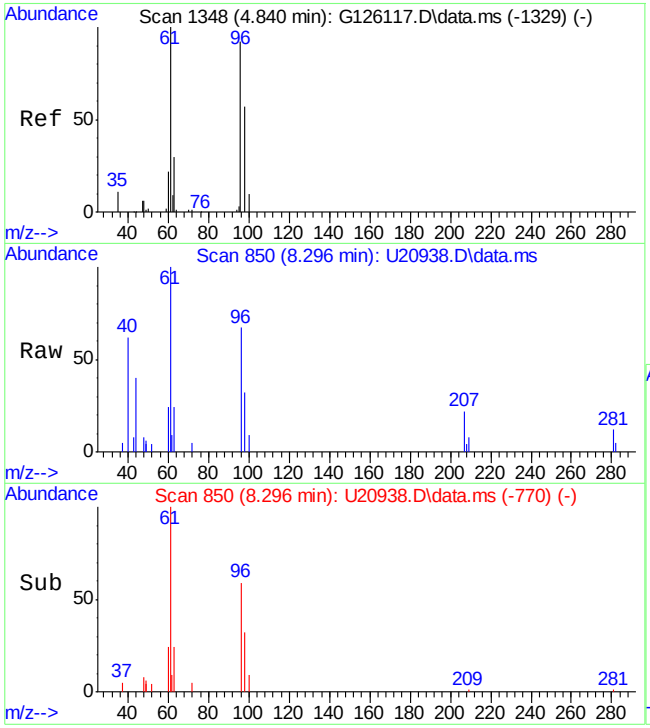


#16
acetone
Concen: 1.12 ppb
RT: 6.189 min Scan# 537
Delta R.T. 0.011 min
Lab File: U20938.D
Acq: 8 Jul 2014 11:34 am

Tgt Ion: 58 Resp: 2222

Ion	Ratio	Lower	Upper
58	100		
43	264.1	278.8	338.8#

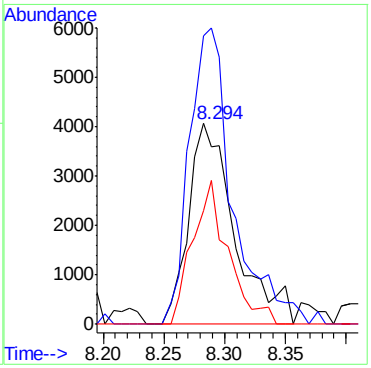




#37
cis-1,2-dichloroethene
Concen: 1.10 ppb
RT: 8.294 min Scan# 850
Delta R.T. 0.005 min
Lab File: U20938.D
Acq: 8 Jul 2014 11:34 am

Tgt Ion: 96 Resp: 10654

Ion	Ratio	Lower	Upper
96	100		
61	149.2	126.3	186.3
98	47.0	36.2	96.2



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20940.D
Acq On : 8 Jul 2014 12:28 pm
Operator : GaryK
Sample : mc31799-21
Misc : ms32230,msu937,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 08 13:03:34 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

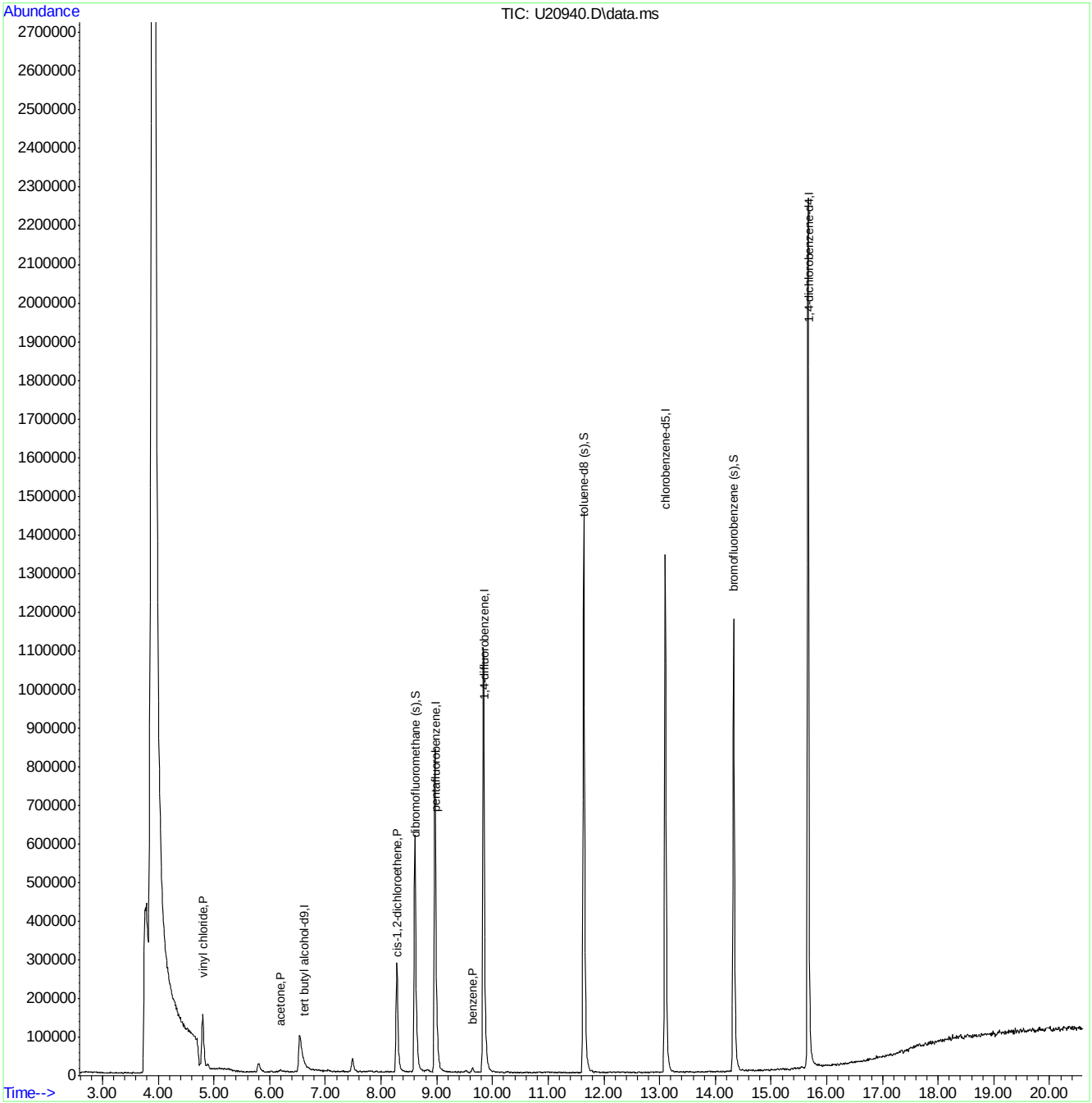
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.614	65	287900	50.00	ppb	0.02
4) pentafluorobenzene	8.980	168	709481	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.847	114	1118038	50.00	ppb	0.00
66) chlorobenzene-d5	13.105	82	419656	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.669	152	705196	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.617	113	466733	60.79	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 121.58%			
60) toluene-d8 (s)	11.645	98	1102862	51.71	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.42%			
82) bromofluorobenzene (s)	14.335	95	455448	50.98	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.96%			
Target Compounds						Qvalue
7) vinyl chloride	4.804	62	235085	17.44	ppb	100
16) acetone	6.185	58	1798	0.90	ppb	92
37) cis-1,2-dichloroethene	8.294	96	138584	14.22	ppb	97
47) benzene	9.648	78	10707	0.41	ppb	89

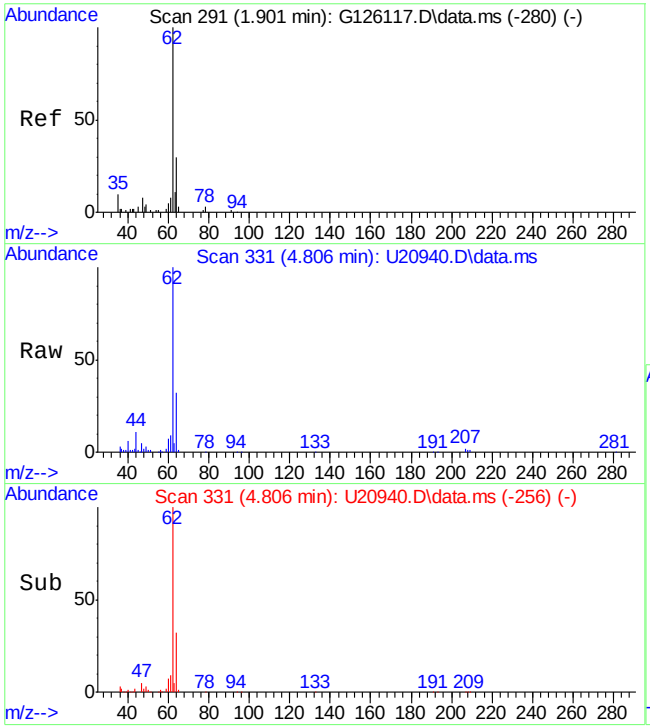
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20940.D
Acq On : 8 Jul 2014 12:28 pm
Operator : GaryK
Sample : mc31799-21
Misc : ms32230,msu937,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 08 13:03:34 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

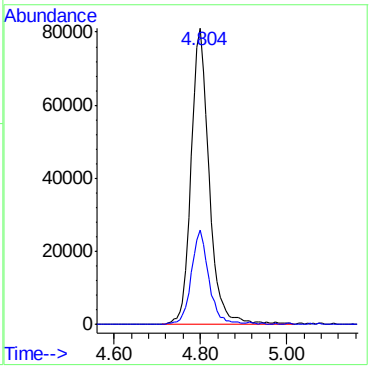


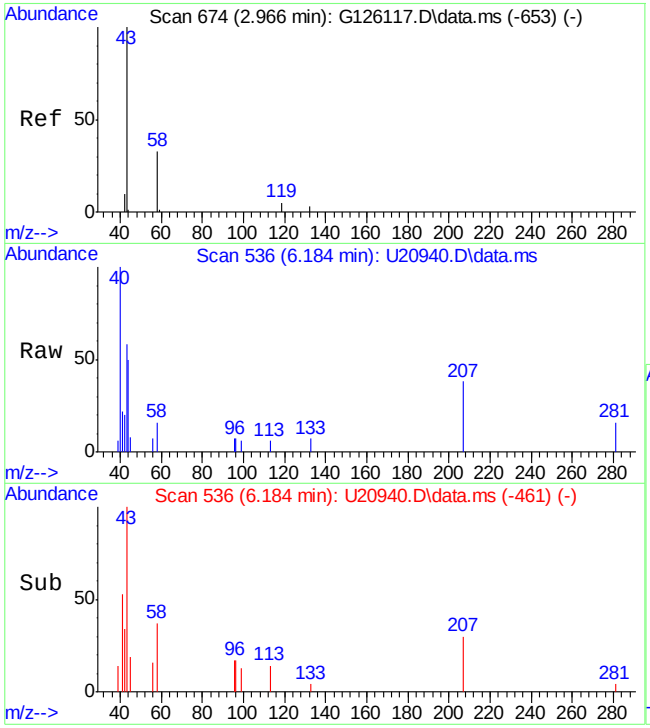


#7
vinyl chloride
Concen: 17.44 ppb
RT: 4.804 min Scan# 331
Delta R.T. 0.005 min
Lab File: U20940.D
Acq: 8 Jul 2014 12:28 pm

Tgt Ion: 62 Resp: 235085

Ion	Ratio	Lower	Upper
62	100		
64	31.6	1.8	61.8

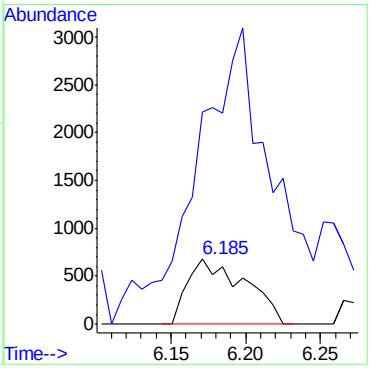


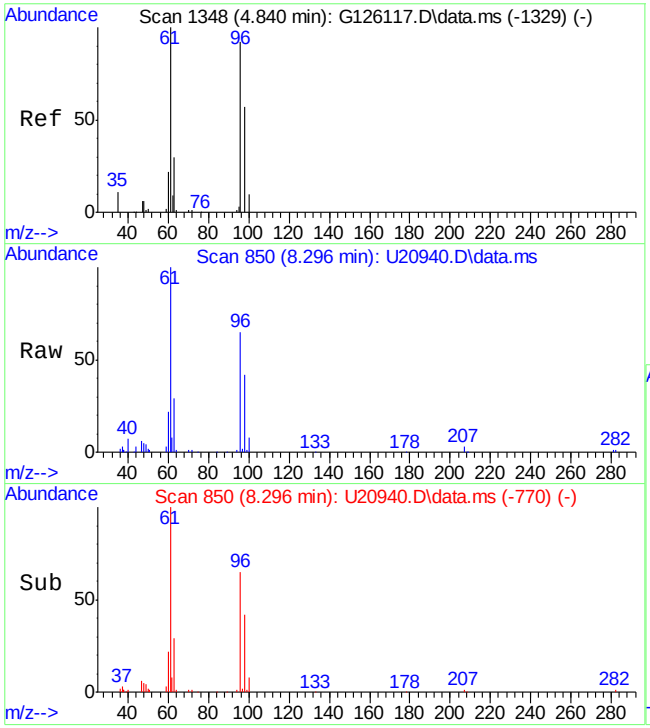


#16
acetone
Concen: 0.90 ppb
RT: 6.185 min Scan# 536
Delta R.T. 0.007 min
Lab File: U20940.D
Acq: 8 Jul 2014 12:28 pm

Tgt Ion: 58 Resp: 1798

Ion	Ratio	Lower	Upper
58	100		
43	293.0	278.8	338.8

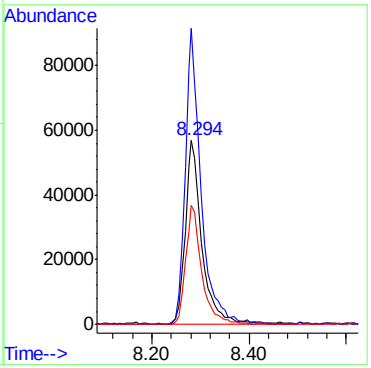


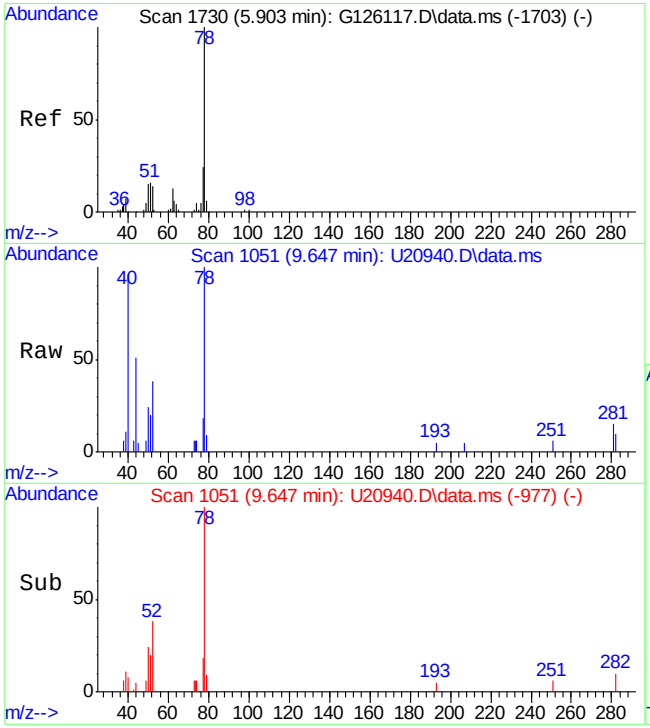


#37
cis-1,2-dichloroethene
Concen: 14.22 ppb
RT: 8.294 min Scan# 850
Delta R.T. 0.005 min
Lab File: U20940.D
Acq: 8 Jul 2014 12:28 pm

Tgt Ion: 96 Resp: 138584

Ion	Ratio	Lower	Upper
96	100		
61	152.8	126.3	186.3
98	64.3	36.2	96.2

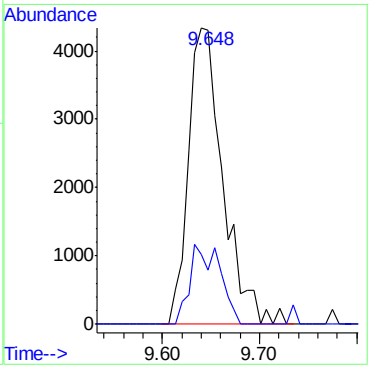




#47
benzene
Concen: 0.41 ppb
RT: 9.648 min Scan# 1051
Delta R.T. 0.007 min
Lab File: U20940.D
Acq: 8 Jul 2014 12:28 pm

Tgt Ion: 78 Resp: 10707

Ion	Ratio	Lower	Upper
78	100		
77	18.4	0.0	53.9



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20941.D
Acq On : 8 Jul 2014 12:55 pm
Operator : GaryK
Sample : mc31799-22
Misc : ms32230,msu937,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 08 13:46:14 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

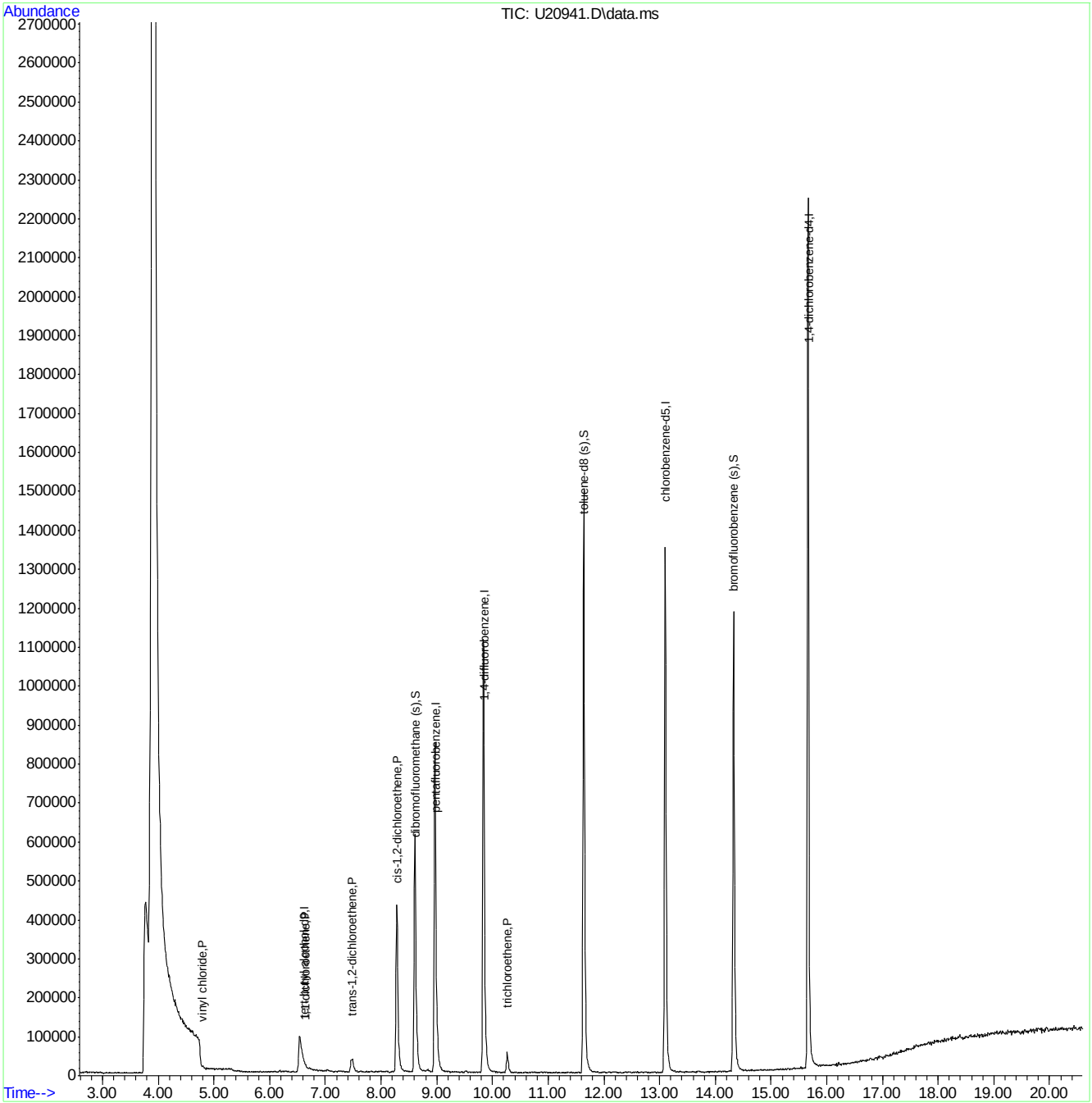
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.620	65	277434	50.00	ppb		0.02
4) pentafluorobenzene	8.980	168	712050	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.846	114	1119526	50.00	ppb		0.00
66) chlorobenzene-d5	13.105	82	435810	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.668	152	709562	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.617	113	467302	60.64	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 121.28%				
60) toluene-d8 (s)	11.644	98	1127048	52.78	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 105.56%				
82) bromofluorobenzene (s)	14.334	95	463844	51.61	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.22%				
Target Compounds							Qvalue
7) vinyl chloride	4.794	62	4969	0.37	ppb		80
15) 1,1-dichloroethene	6.639	96	1758	0.22	ppb	#	18
22) trans-1,2-dichloroethene	7.475	96	11383	1.23	ppb		86
37) cis-1,2-dichloroethene	8.291	96	208158	21.28	ppb		98
51) trichloroethene	10.268	95	19624	2.51	ppb		73

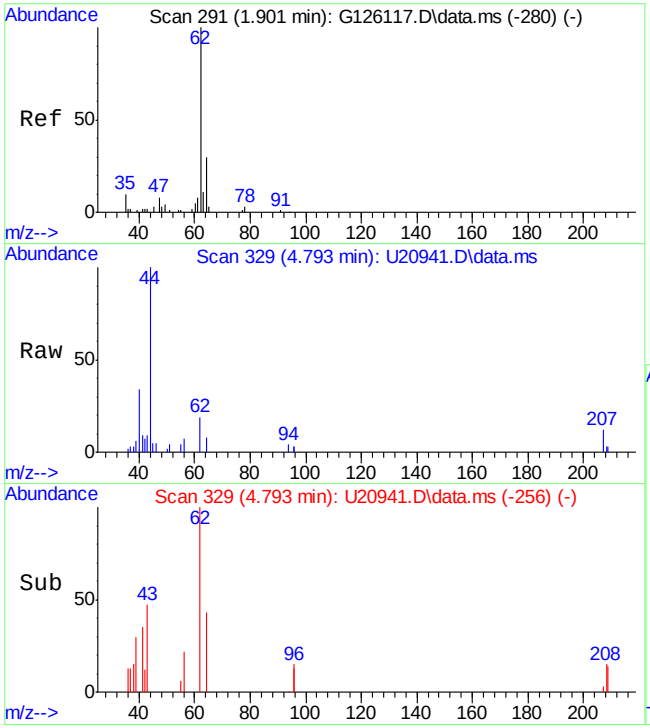
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20941.D
Acq On : 8 Jul 2014 12:55 pm
Operator : GaryK
Sample : mc31799-22
Misc : ms32230,msu937,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 08 13:46:14 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

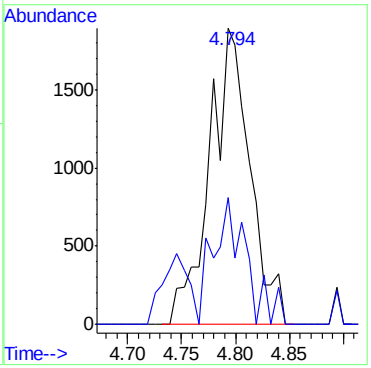


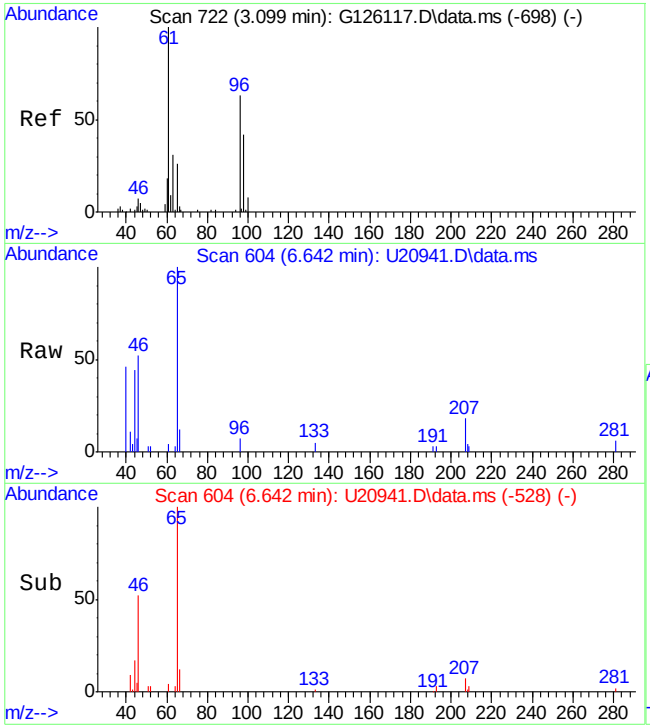


#7
vinyl chloride
Concen: 0.37 ppb
RT: 4.794 min Scan# 329
Delta R.T. -0.005 min
Lab File: U20941.D
Acq: 8 Jul 2014 12:55 pm

Tgt Ion: 62 Resp: 4969

Ion	Ratio	Lower	Upper
62	100		
64	42.8	1.8	61.8

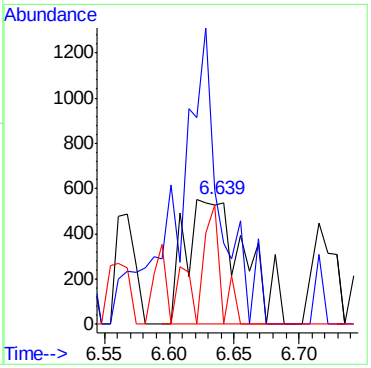


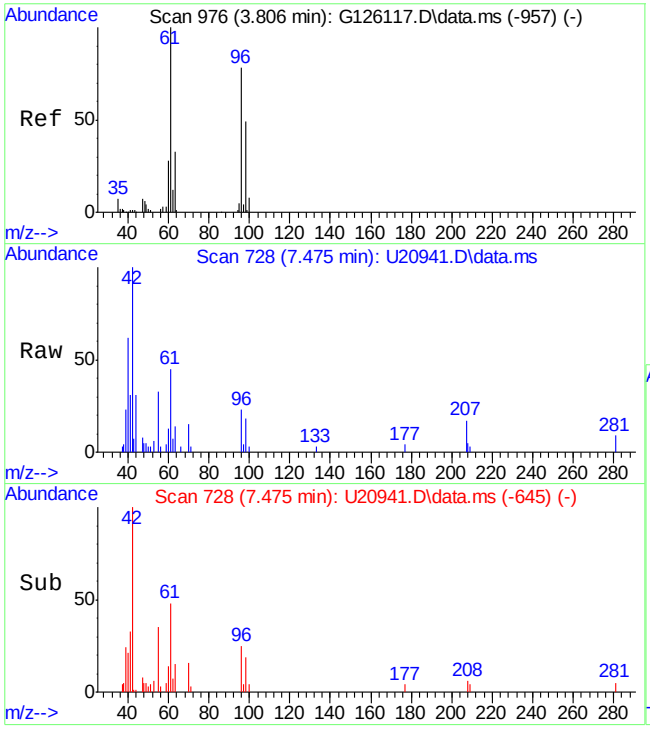


#15
1,1-dichloroethene
Concen: 0.22 ppb
RT: 6.639 min Scan# 604
Delta R.T. 0.010 min
Lab File: U20941.D
Acq: 8 Jul 2014 12:55 pm

Tgt Ion: 96 Resp: 1758

Ion	Ratio	Lower	Upper
96	100		
61	66.7	158.7	218.7#
63	0.0	27.6	87.6#

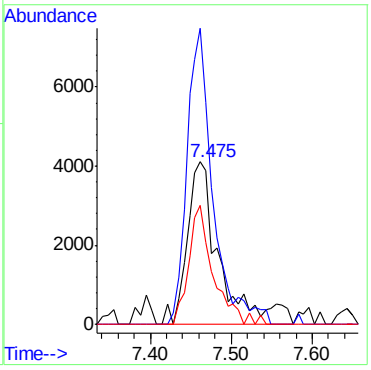


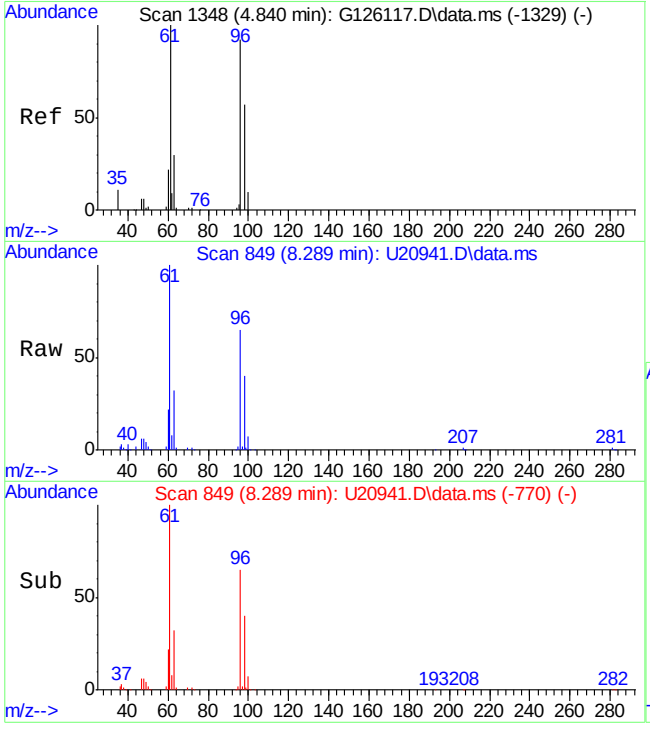


#22
trans-1,2-dichloroethene
Concen: 1.23 ppb
RT: 7.475 min Scan# 728
Delta R.T. 0.008 min
Lab File: U20941.D
Acq: 8 Jul 2014 12:55 pm

Tgt Ion: 96 Resp: 11383

Ion	Ratio	Lower	Upper
96	100		
61	194.5	145.5	205.5
98	75.9	35.2	95.2

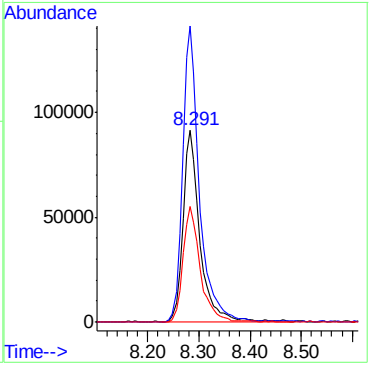


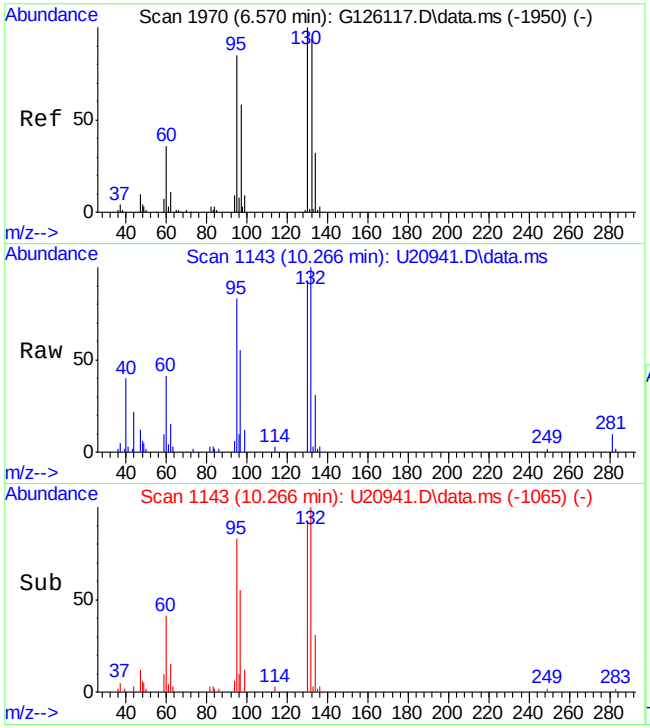


#37
cis-1,2-dichloroethene
Concen: 21.28 ppb
RT: 8.291 min Scan# 849
Delta R.T. 0.002 min
Lab File: U20941.D
Acq: 8 Jul 2014 12:55 pm

Tgt Ion: 96 Resp: 208158

Ion	Ratio	Lower	Upper
96	100		
61	155.1	126.3	186.3
98	61.5	36.2	96.2

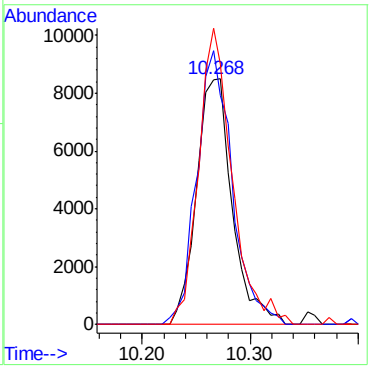




#51
trichloroethene
Concen: 2.51 ppb
RT: 10.268 min Scan# 1143
Delta R.T. 0.007 min
Lab File: U20941.D
Acq: 8 Jul 2014 12:55 pm

Tgt Ion: 95 Resp: 19624

Ion	Ratio	Lower	Upper
95	100		
130	111.9	58.8	118.8
132	121.0	62.5	122.5



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20942.D
Acq On : 8 Jul 2014 1:22 pm
Operator : GaryK
Sample : mc31799-23
Misc : ms32230,msu937,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 08 13:46:56 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

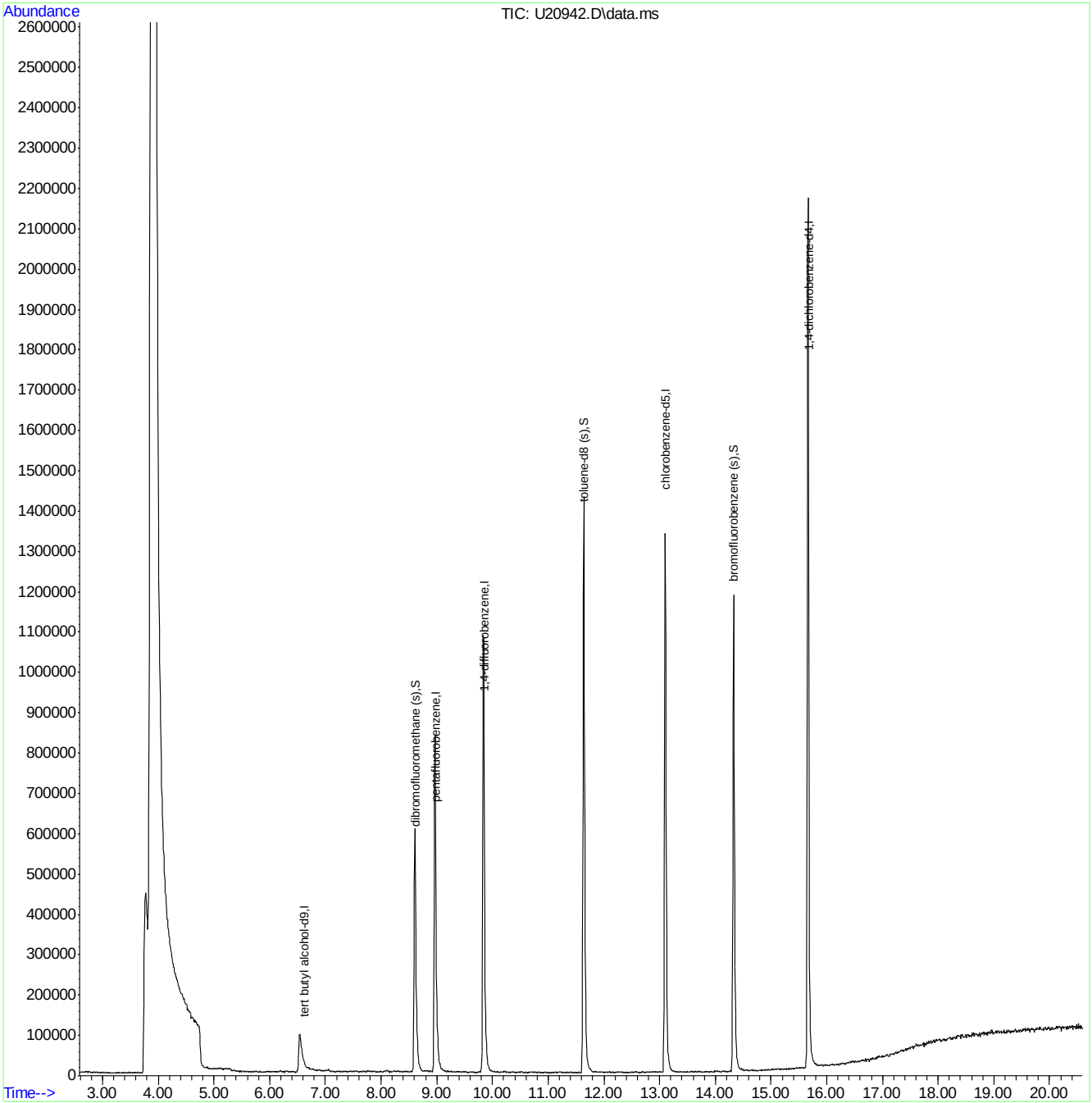
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.617	65	274798	50.00	ppb		0.02
4) pentafluorobenzene	8.980	168	700556	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.847	114	1087691	50.00	ppb		0.00
66) chlorobenzene-d5	13.105	82	418171	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.669	152	692790	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.618	113	468155	61.75	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 123.50%				
60) toluene-d8 (s)	11.645	98	1088474	52.46	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 104.92%				
82) bromofluorobenzene (s)	14.335	95	446084	50.83	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.66%				
Target Compounds							Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20942.D
Acq On : 8 Jul 2014 1:22 pm
Operator : GaryK
Sample : mc31799-23
Misc : ms32230,msu937,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 08 13:46:56 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20939.D
Acq On : 8 Jul 2014 12:01 pm
Operator : GaryK
Sample : mc31799-24
Misc : ms32230,msu937,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 08 13:02:23 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

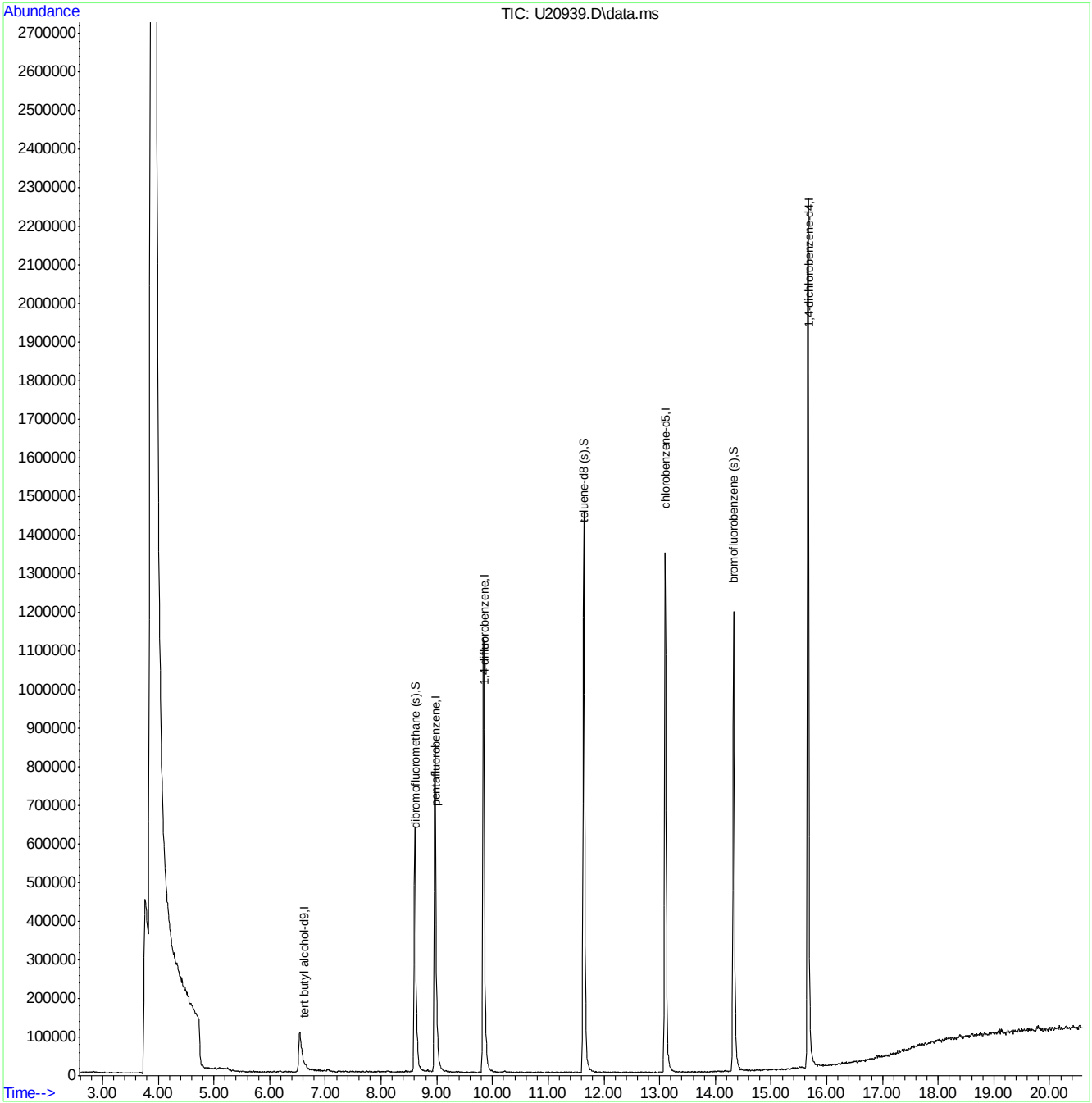
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.617	65	286649	50.00	ppb		0.02
4) pentafluorobenzene	8.979	168	716945	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.847	114	1138887	50.00	ppb		0.00
66) chlorobenzene-d5	13.105	82	427689	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.669	152	726747	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.618	113	486537	62.70	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 125.40%				
60) toluene-d8 (s)	11.645	98	1111059	51.14	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.28%				
82) bromofluorobenzene (s)	14.335	95	461928	50.18	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.36%				
Target Compounds							Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20939.D
Acq On : 8 Jul 2014 12:01 pm
Operator : GaryK
Sample : mc31799-24
Misc : ms32230,msu937,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 08 13:02:23 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20943.D
Acq On : 8 Jul 2014 1:49 pm
Operator : GaryK
Sample : mc31799-25
Misc : ms32230,msu937,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 08 14:11:52 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

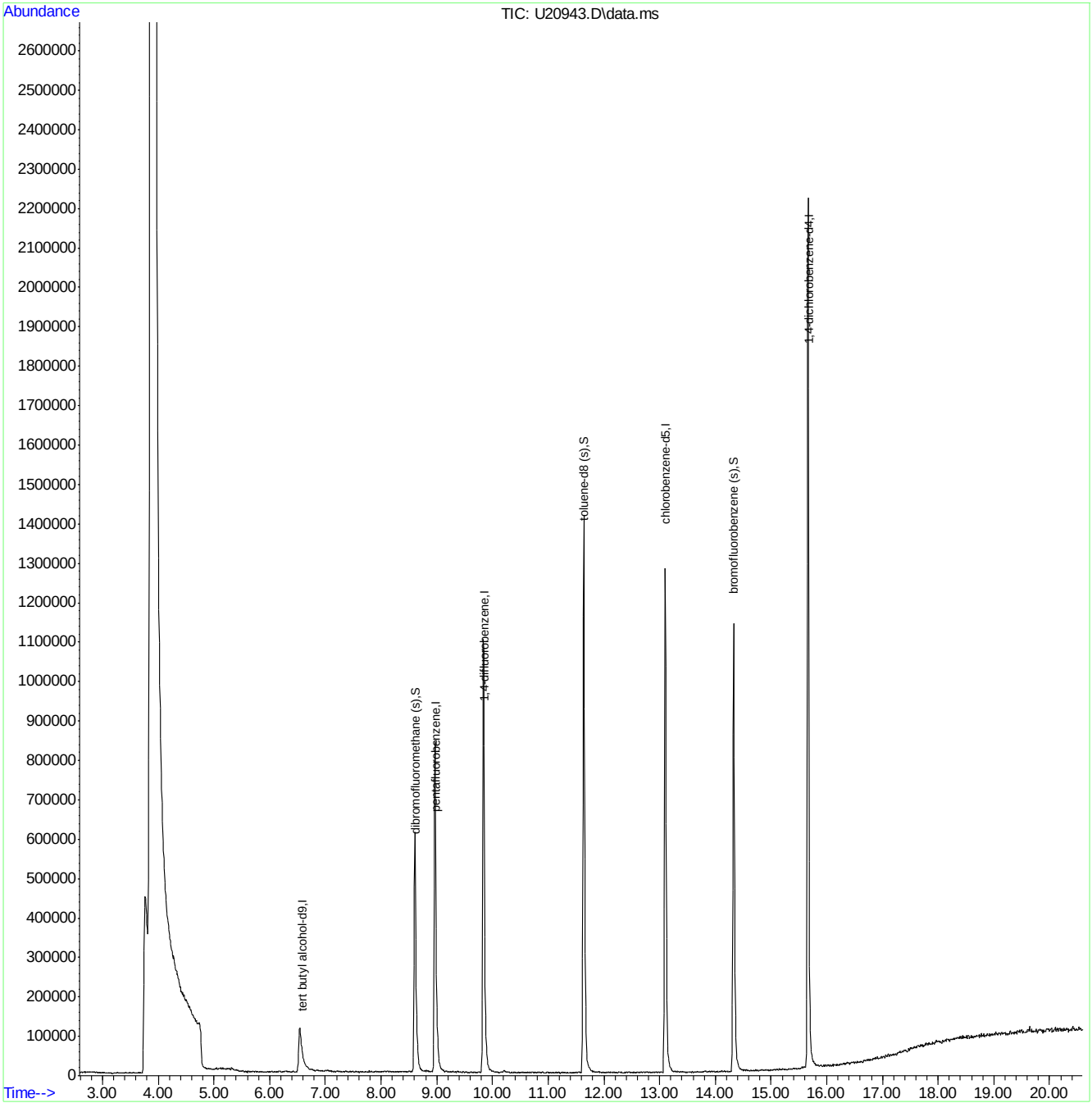
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.592	65	295577	50.00	ppb	0.00
4) pentafluorobenzene	8.979	168	692404	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.847	114	1097957	50.00	ppb	0.00
66) chlorobenzene-d5	13.106	82	400559	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.668	152	690340	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.617	113	462153	61.67	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 123.34%			
60) toluene-d8 (s)	11.644	98	1060028	50.61	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.22%			
82) bromofluorobenzene (s)	14.334	95	438401	50.13	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.26%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20943.D
Acq On : 8 Jul 2014 1:49 pm
Operator : GaryK
Sample : mc31799-25
Misc : ms32230,msu937,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 08 14:11:52 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20944.D
Acq On : 8 Jul 2014 2:16 pm
Operator : GaryK
Sample : mc31799-26
Misc : ms32230,msu937,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 08 15:39:31 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

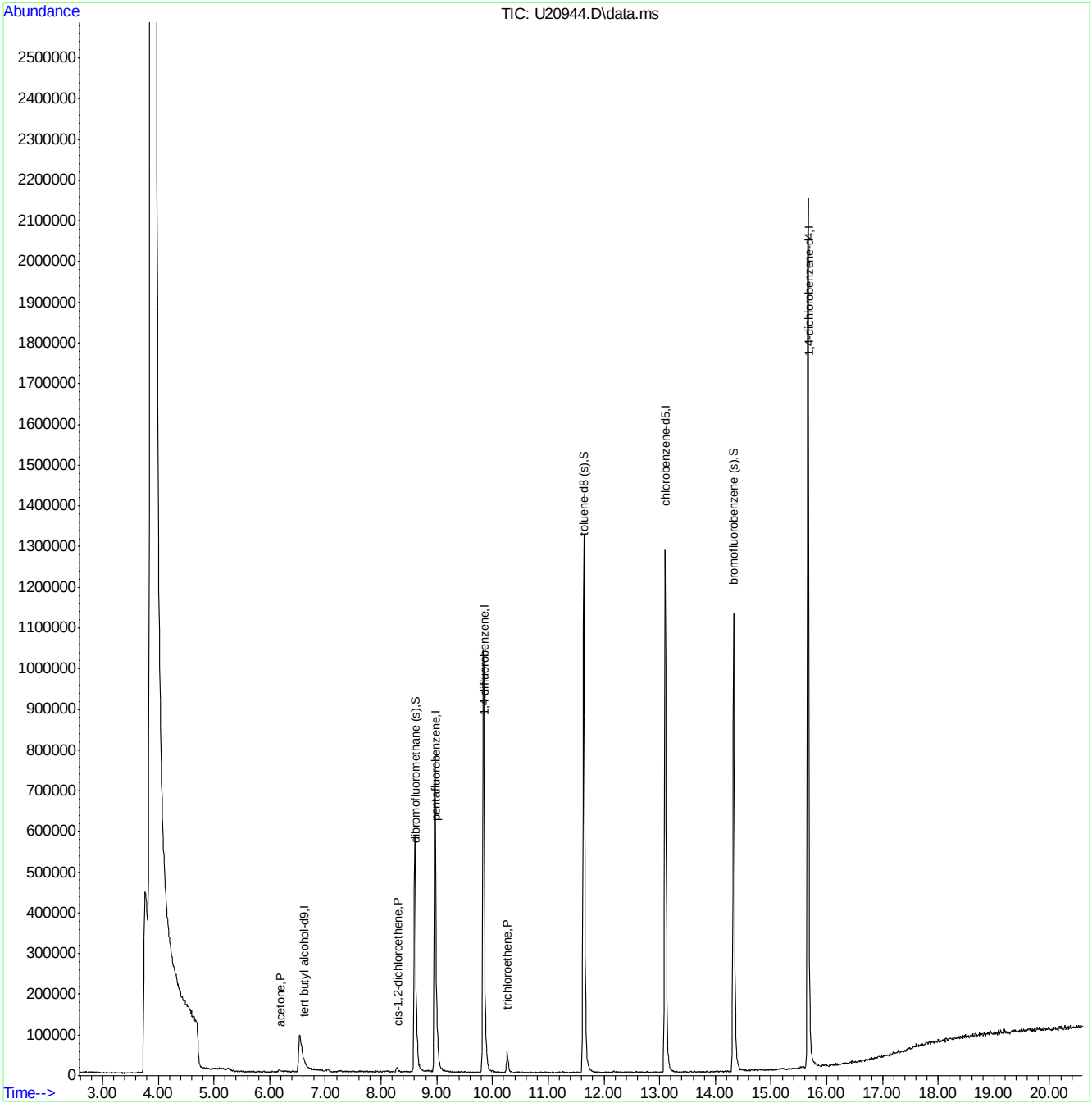
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.617	65	288118	50.00	ppb		0.02
4) pentafluorobenzene	8.979	168	655584	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.847	114	1026125	50.00	ppb		0.00
66) chlorobenzene-d5	13.105	82	402240	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.669	152	675009	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.617	113	440162	62.04	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 124.08%				
60) toluene-d8 (s)	11.645	98	1004106	51.30	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.60%				
82) bromofluorobenzene (s)	14.334	95	432864	50.62	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.24%				
Target Compounds							Qvalue
16) acetone	6.185	58	3737	2.02	ppb	#	52
37) cis-1,2-dichloroethene	8.301	96	7666	0.85	ppb	#	63
51) trichloroethene	10.270	95	18270	2.54	ppb	#	60

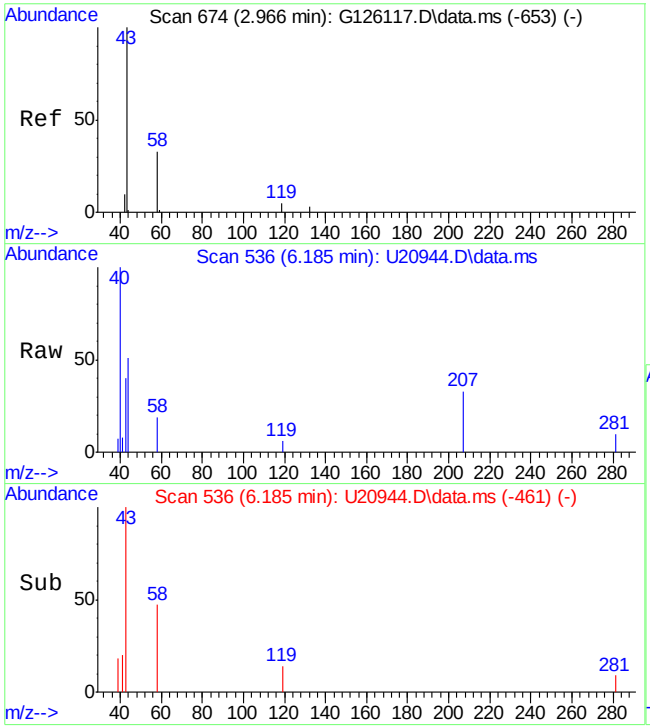
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20944.D
Acq On : 8 Jul 2014 2:16 pm
Operator : GaryK
Sample : mc31799-26
Misc : ms32230,msu937,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 08 15:39:31 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

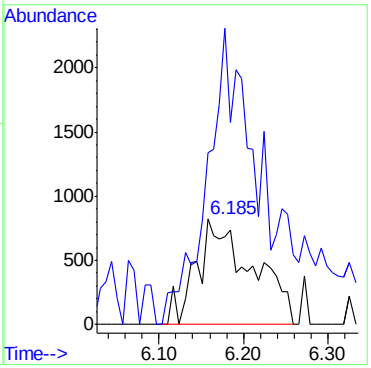


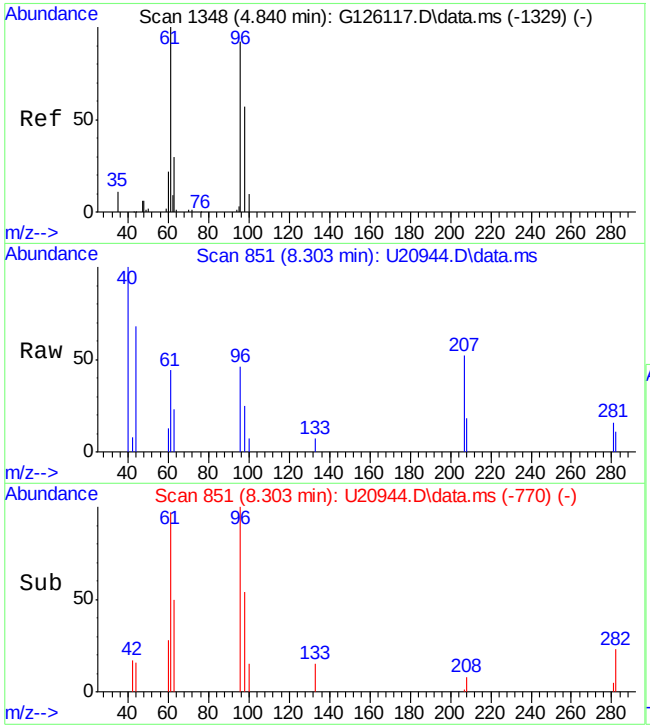


#16
acetone
Concen: 2.02 ppb
RT: 6.185 min Scan# 536
Delta R.T. 0.007 min
Lab File: U20944.D
Acq: 8 Jul 2014 2:16 pm

Tgt Ion: 58 Resp: 3737

Ion	Ratio	Lower	Upper
58	100		
43	213.4	278.8	338.8#

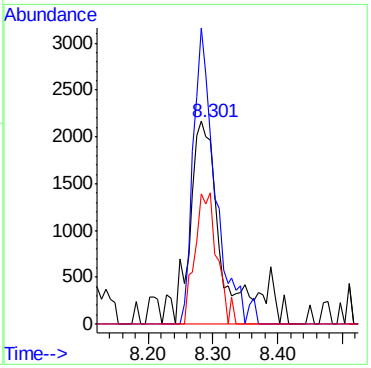


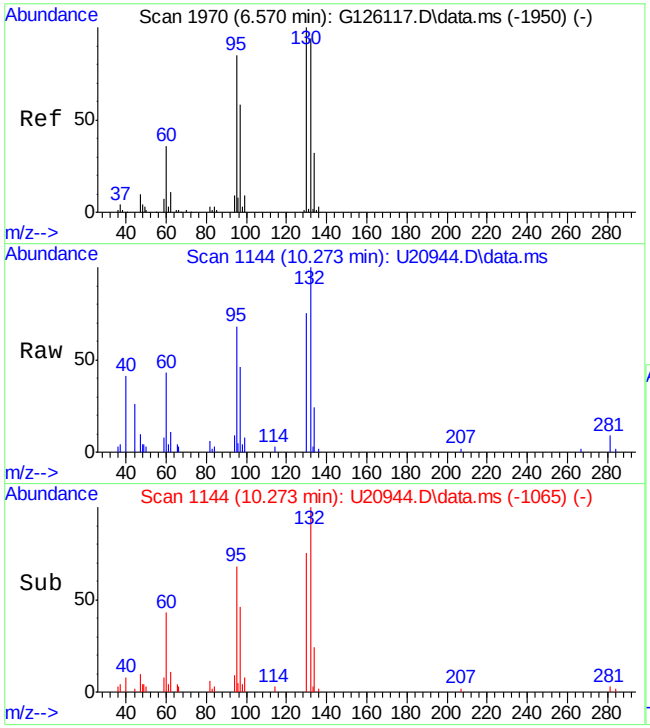


#37
cis-1,2-dichloroethene
Concen: 0.85 ppb
RT: 8.301 min Scan# 851
Delta R.T. 0.012 min
Lab File: U20944.D
Acq: 8 Jul 2014 2:16 pm

Tgt Ion: 96 Resp: 7666

Ion	Ratio	Lower	Upper
96	100		
61	96.6	126.3	186.3#
98	53.7	36.2	96.2

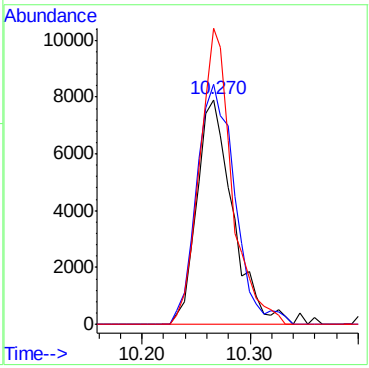




#51
trichloroethene
Concen: 2.54 ppb
RT: 10.270 min Scan# 1144
Delta R.T. 0.009 min
Lab File: U20944.D
Acq: 8 Jul 2014 2:16 pm

Tgt Ion: 95 Resp: 18270

Ion	Ratio	Lower	Upper
95	100		
130	110.6	58.8	118.8
132	146.8	62.5	122.5#



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20945.D
Acq On : 8 Jul 2014 2:43 pm
Operator : GaryK
Sample : mc31799-27
Misc : ms32230,msu937,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 08 15:40:50 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

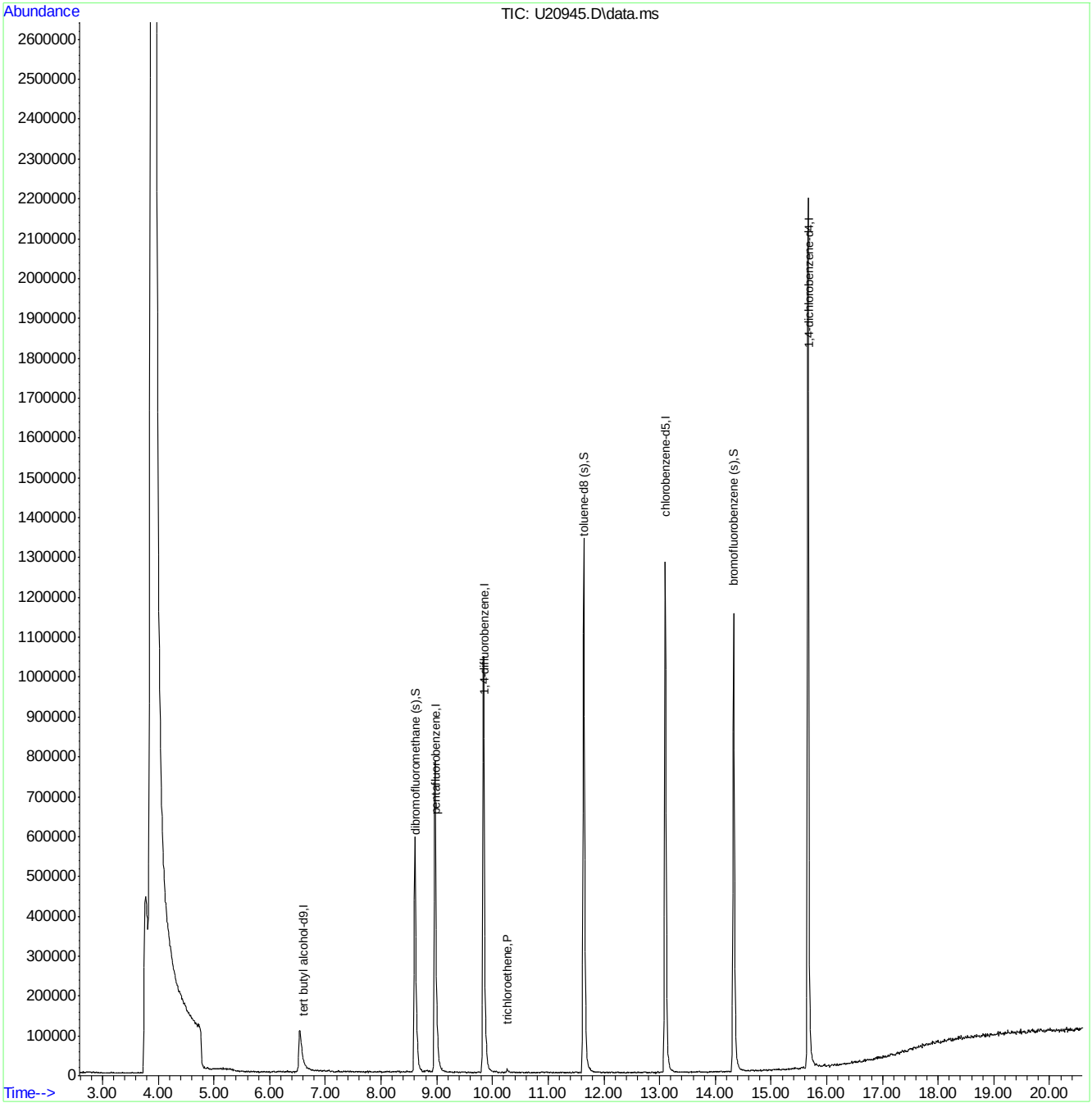
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.610	65	280710	50.00	ppb		0.01
4) pentafluorobenzene	8.980	168	667419	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.847	114	1051238	50.00	ppb		0.00
66) chlorobenzene-d5	13.106	82	399486	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.669	152	686614	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.618	113	444530	61.54	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 123.08%				
60) toluene-d8 (s)	11.645	98	1025135	51.12	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.24%				
82) bromofluorobenzene (s)	14.335	95	436792	50.22	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.44%				
Target Compounds							Qvalue
51) trichloroethene	10.268	95	3148	0.43	ppb	#	78

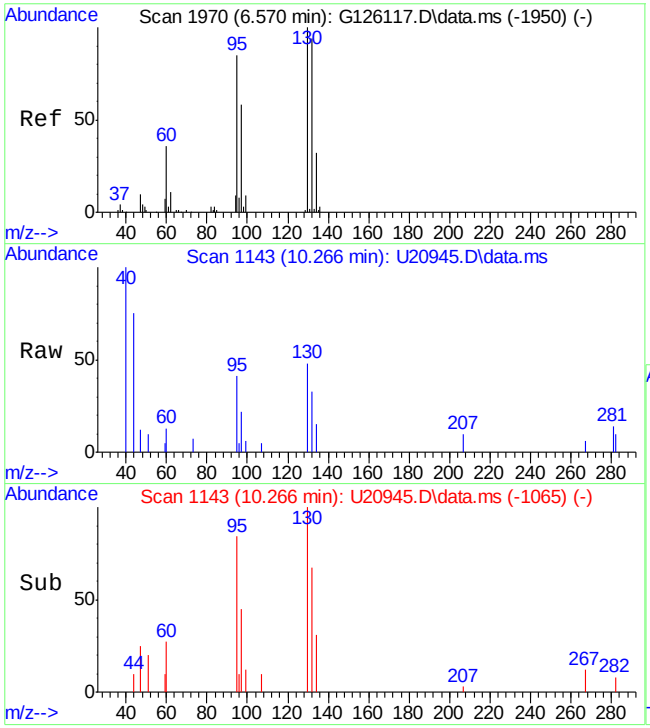
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20945.D
Acq On : 8 Jul 2014 2:43 pm
Operator : GaryK
Sample : mc31799-27
Misc : ms32230,msu937,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 08 15:40:50 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

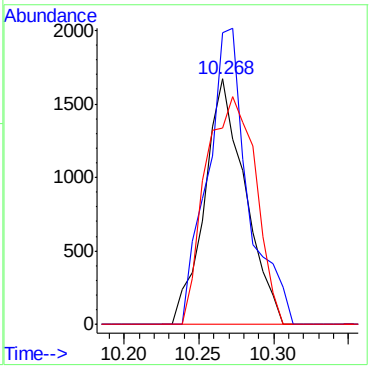




#51
trichloroethene
Concen: 0.43 ppb
RT: 10.268 min Scan# 1143
Delta R.T. 0.007 min
Lab File: U20945.D
Acq: 8 Jul 2014 2:43 pm

Tgt Ion: 95 Resp: 3148

Ion	Ratio	Lower	Upper
95	100		
130	119.1	58.8	118.8#
132	80.1	62.5	122.5



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20946.D
Acq On : 8 Jul 2014 3:11 pm
Operator : GaryK
Sample : mc31799-28
Misc : ms32230,msu937,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 08 15:41:45 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

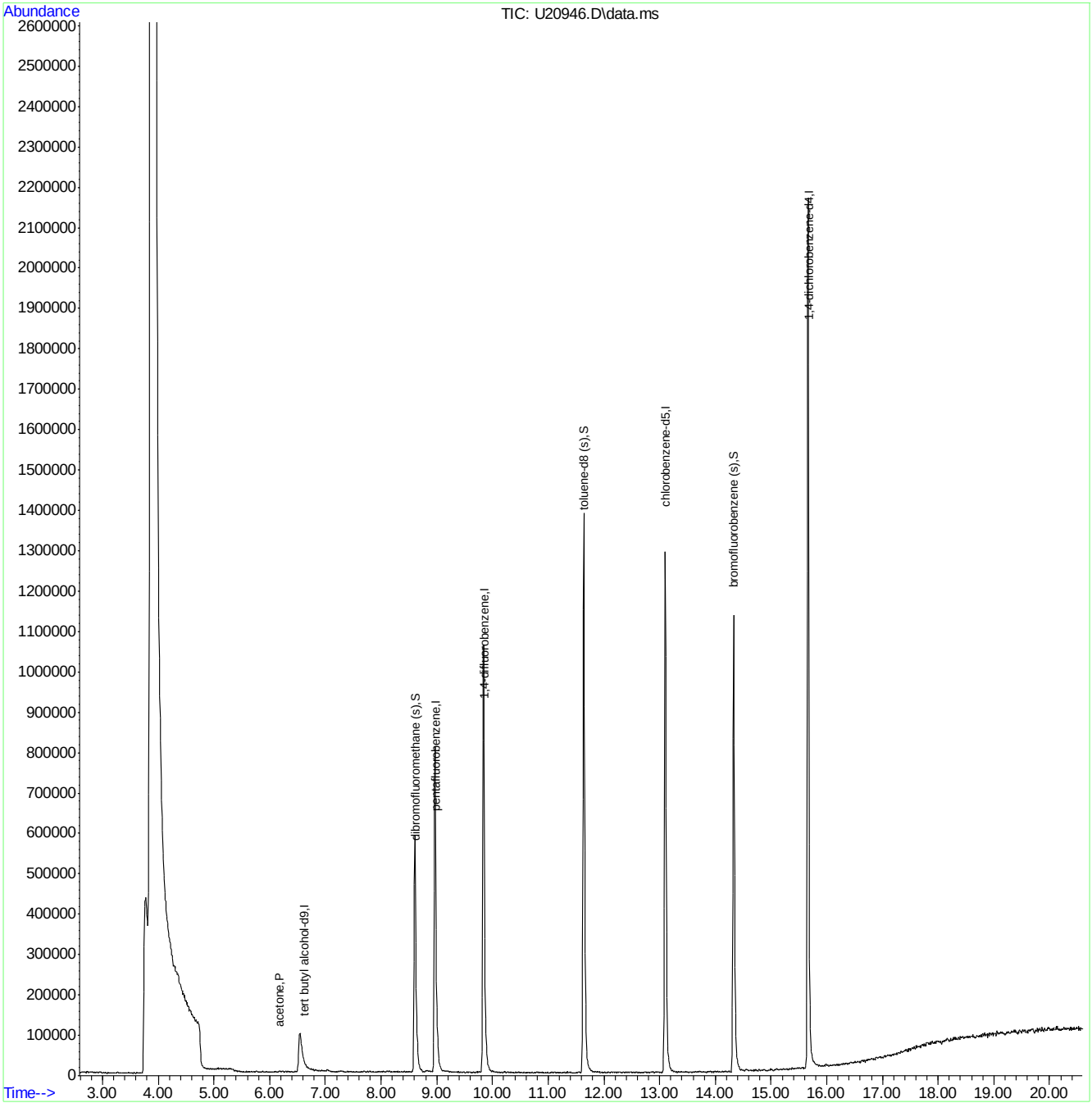
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.613	65	293217	50.00	ppb		0.02
4) pentafluorobenzene	8.979	168	671226	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.847	114	1068162	50.00	ppb		0.00
66) chlorobenzene-d5	13.106	82	403920	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.669	152	683891	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.617	113	449911	61.93	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 123.86%				
60) toluene-d8 (s)	11.645	98	1058185	51.94	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.88%				
82) bromofluorobenzene (s)	14.335	95	431655	49.83	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.66%				
Target Compounds							Qvalue
16) acetone	6.172	58	1018	0.54	ppb	#	56

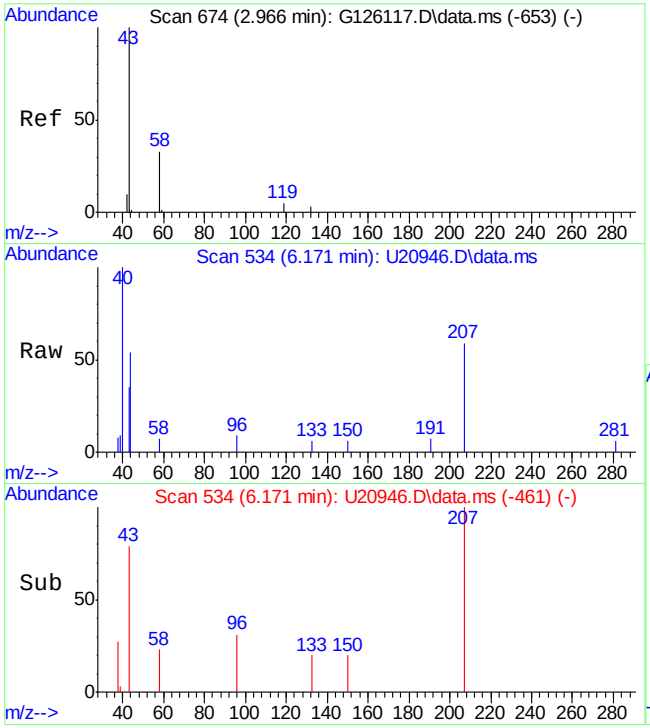
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20946.D
Acq On : 8 Jul 2014 3:11 pm
Operator : GaryK
Sample : mc31799-28
Misc : ms32230,msu937,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 08 15:41:45 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

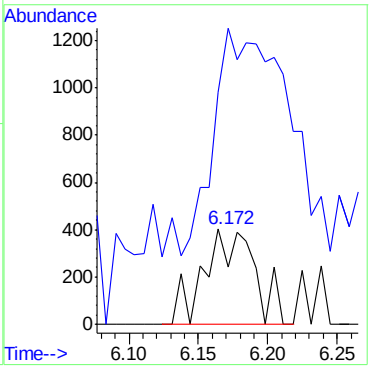




#16
acetone
Concen: 0.54 ppb
RT: 6.172 min Scan# 534
Delta R.T. -0.006 min
Lab File: U20946.D
Acq: 8 Jul 2014 3:11 pm

Tgt Ion: 58 Resp: 1018

Ion	Ratio	Lower	Upper
58	100		
43	397.5	278.8	338.8#



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20947.D
Acq On : 8 Jul 2014 3:38 pm
Operator : GaryK
Sample : mc31799-29
Misc : ms32230,msu937,,,,5,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 08 16:00:10 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

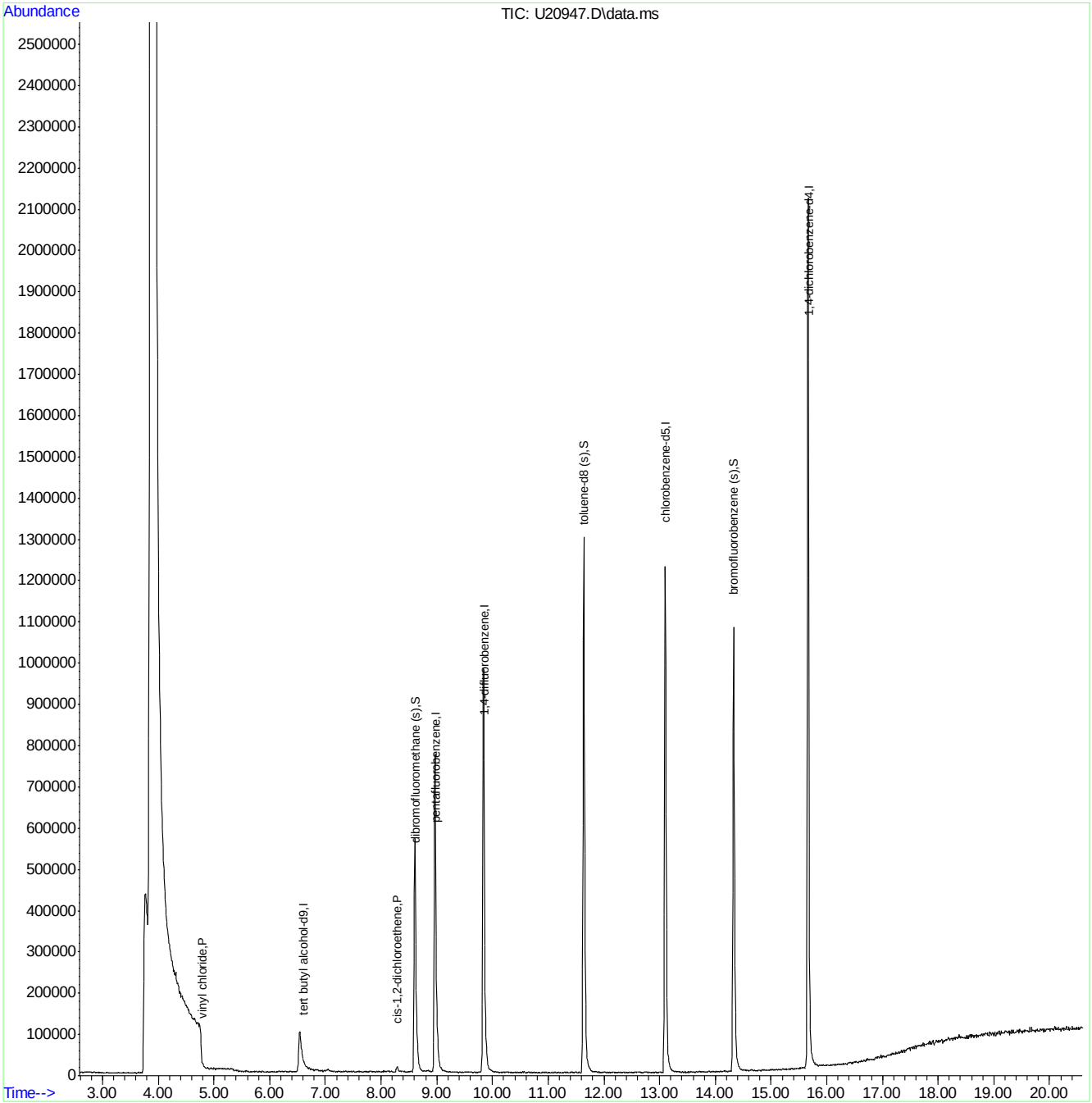
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.599	65	258229	50.00	ppb		0.00
4) pentafluorobenzene	8.979	168	637268	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.847	114	985266	50.00	ppb		0.00
66) chlorobenzene-d5	13.105	82	390227	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.669	152	673635	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.616	113	424526	61.55	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 123.10%				
60) toluene-d8 (s)	11.645	98	989107	52.63	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 105.26%				
82) bromofluorobenzene (s)	14.335	95	421051	49.34	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.68%				
Target Compounds							Qvalue
7) vinyl chloride	4.793	62	8575	0.71	ppb		98
37) cis-1,2-dichloroethene	8.296	96	7463	0.85	ppb	#	77

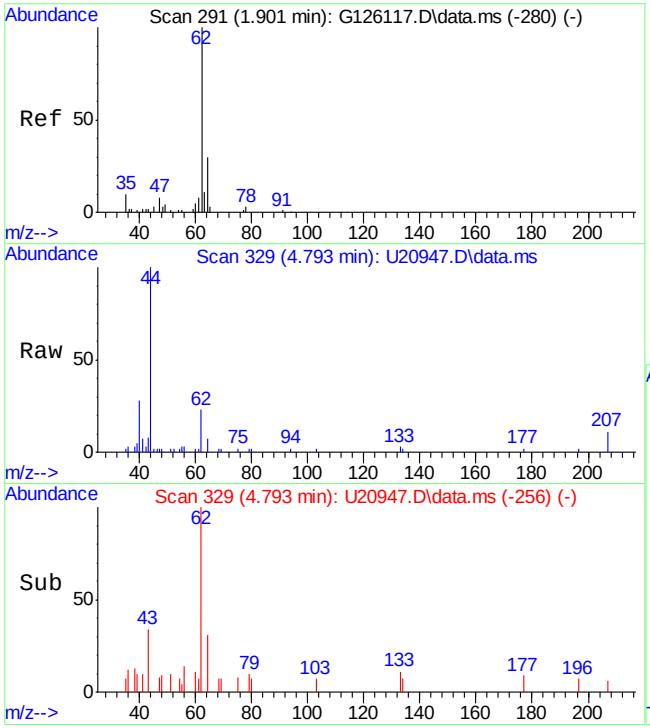
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20947.D
Acq On : 8 Jul 2014 3:38 pm
Operator : GaryK
Sample : mc31799-29
Misc : ms32230,msu937,,,,5,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 08 16:00:10 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

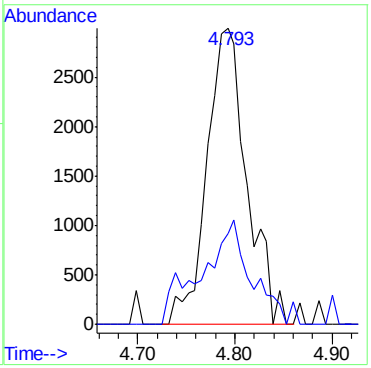


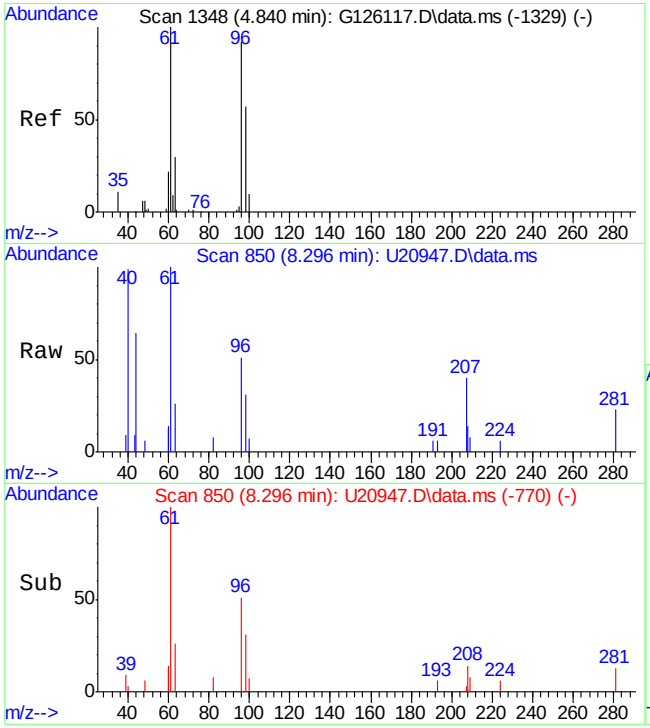


#7
vinyl chloride
Concen: 0.71 ppb
RT: 4.793 min Scan# 329
Delta R.T. -0.006 min
Lab File: U20947.D
Acq: 8 Jul 2014 3:38 pm

Tgt Ion: 62 Resp: 8575

Ion	Ratio	Lower	Upper
62	100		
64	30.8	1.8	61.8

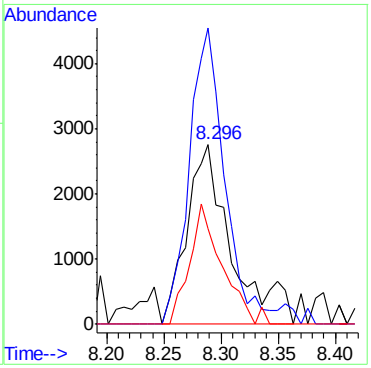




#37
cis-1,2-dichloroethene
Concen: 0.85 ppb
RT: 8.296 min Scan# 850
Delta R.T. 0.007 min
Lab File: U20947.D
Acq: 8 Jul 2014 3:38 pm

Tgt Ion: 96 Resp: 7463

Ion	Ratio	Lower	Upper
96	100		
61	195.3	126.3	186.3#
98	60.1	36.2	96.2



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20948.D
Acq On : 8 Jul 2014 4:05 pm
Operator : GaryK
Sample : mc31799-30
Misc : ms32230,msu937,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 08 16:27:46 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

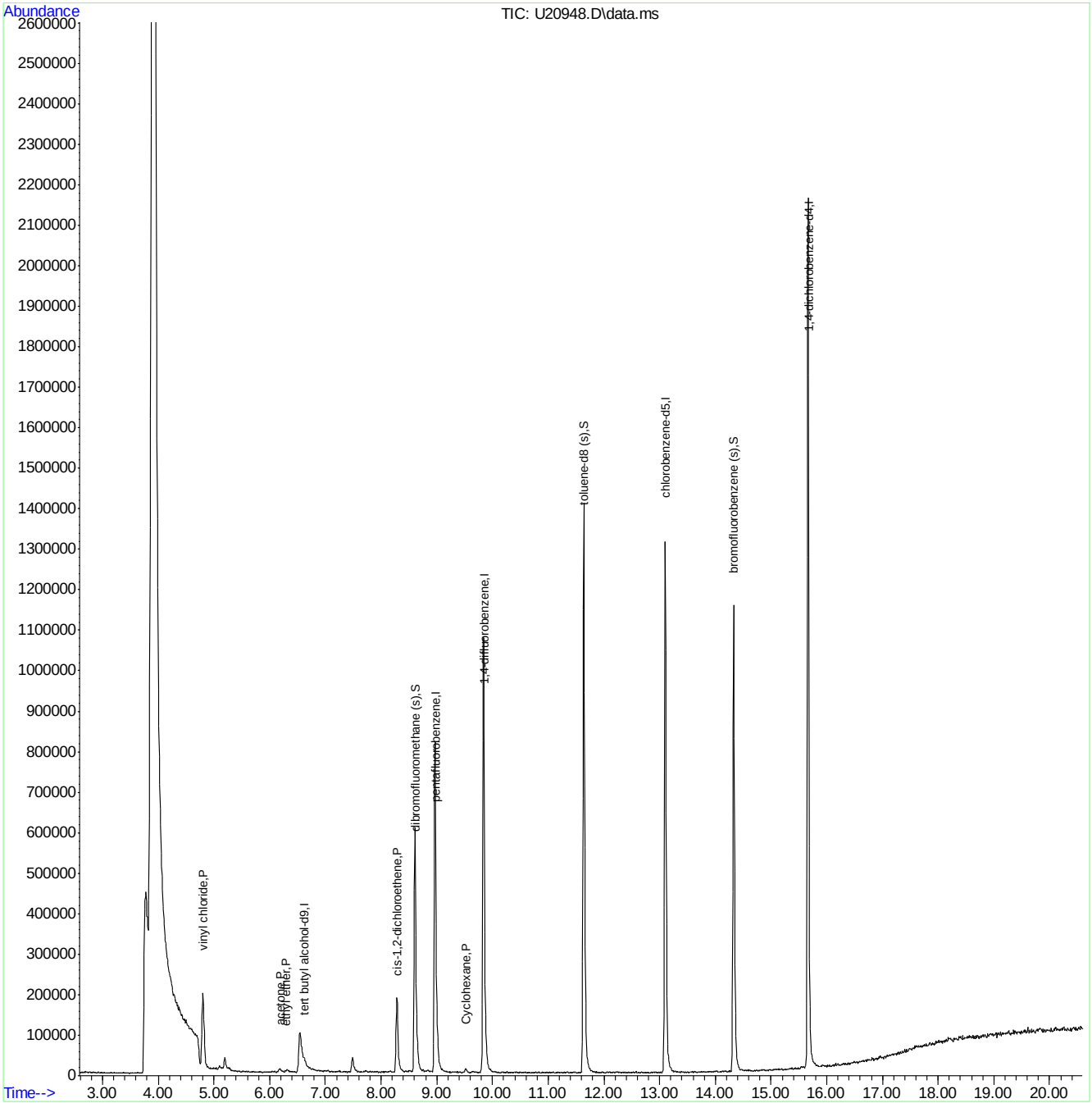
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.613	65	290310	50.00	ppb		0.02
4) pentafluorobenzene	8.979	168	693793	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.847	114	1078266	50.00	ppb		0.00
66) chlorobenzene-d5	13.106	82	411655	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.669	152	669924	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.617	113	453194	60.36	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 120.72%				
60) toluene-d8 (s)	11.645	98	1061659	51.62	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.24%				
82) bromofluorobenzene (s)	14.335	95	435797	51.35	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.70%				
Target Compounds							Qvalue
7) vinyl chloride	4.809	62	330999	25.12	ppb		99
10) ethyl ether	6.298	59	1648	0.23	ppb		90
16) acetone	6.191	58	5014	2.56	ppb	#	41
37) cis-1,2-dichloroethene	8.293	96	88615	9.30	ppb		94
44) Cyclohexane	9.524	56	5873	0.37	ppb	#	83

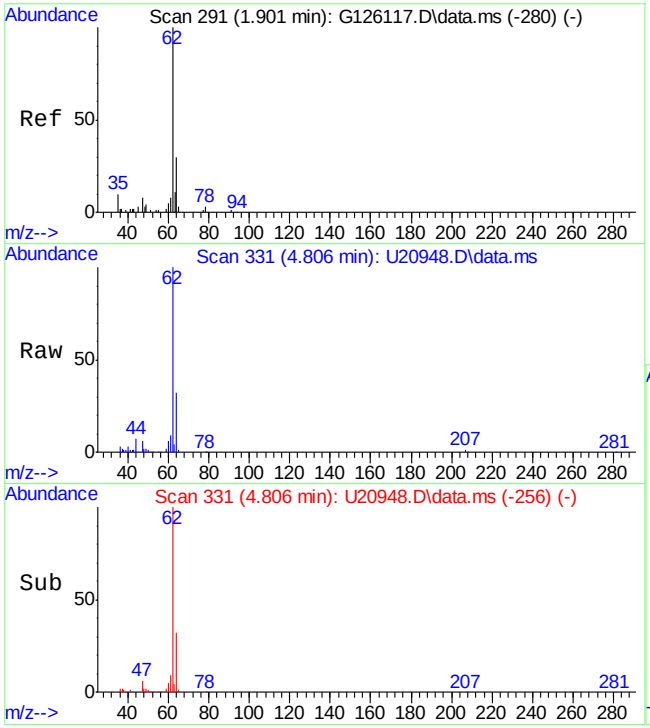
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20948.D
Acq On : 8 Jul 2014 4:05 pm
Operator : GaryK
Sample : mc31799-30
Misc : ms32230,msu937,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 08 16:27:46 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

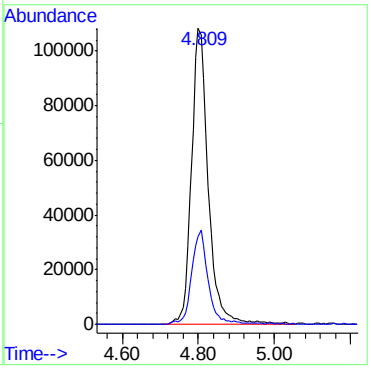


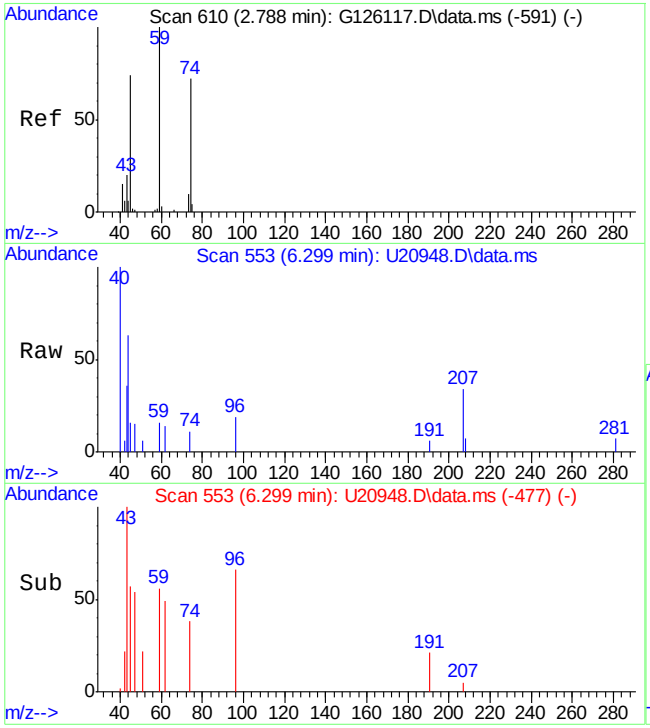


#7
vinyl chloride
Concen: 25.12 ppb
RT: 4.809 min Scan# 331
Delta R.T. 0.010 min
Lab File: U20948.D
Acq: 8 Jul 2014 4:05 pm

Tgt Ion: 62 Resp: 330999

Ion	Ratio	Lower	Upper
62	100		
64	32.5	1.8	61.8

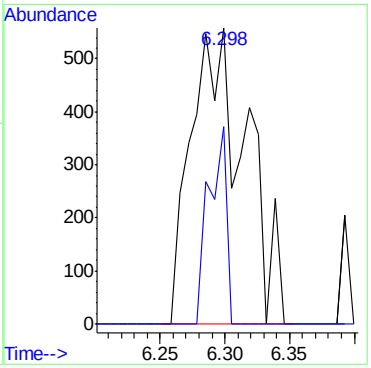


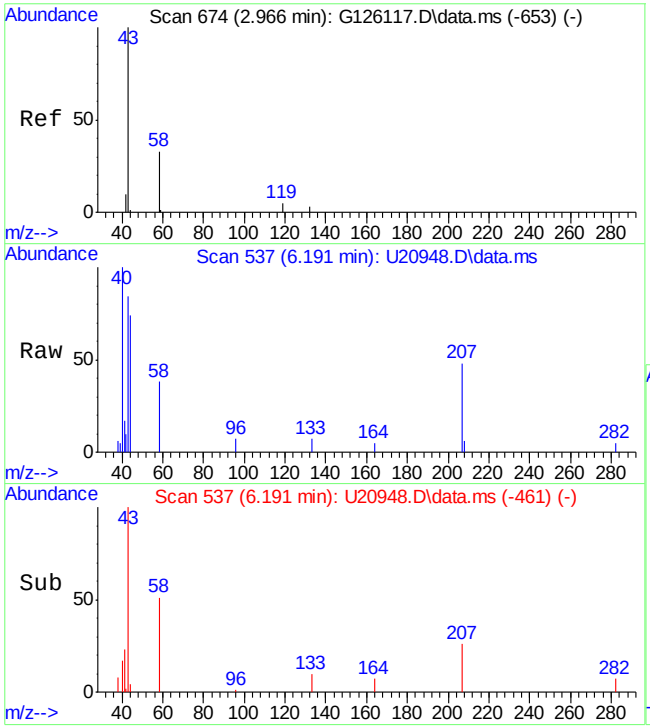


#10
ethyl ether
Concen: 0.23 ppb
RT: 6.298 min Scan# 553
Delta R.T. 0.010 min
Lab File: U20948.D
Acq: 8 Jul 2014 4:05 pm

Tgt Ion: 59 Resp: 1648

Ion	Ratio	Lower	Upper
59	100		
74	66.5	29.1	89.1

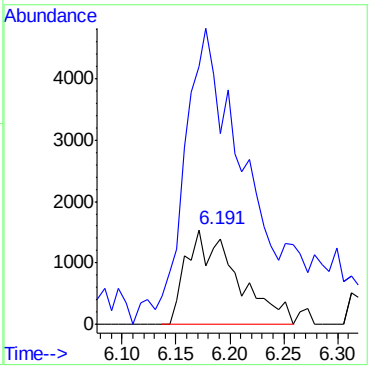


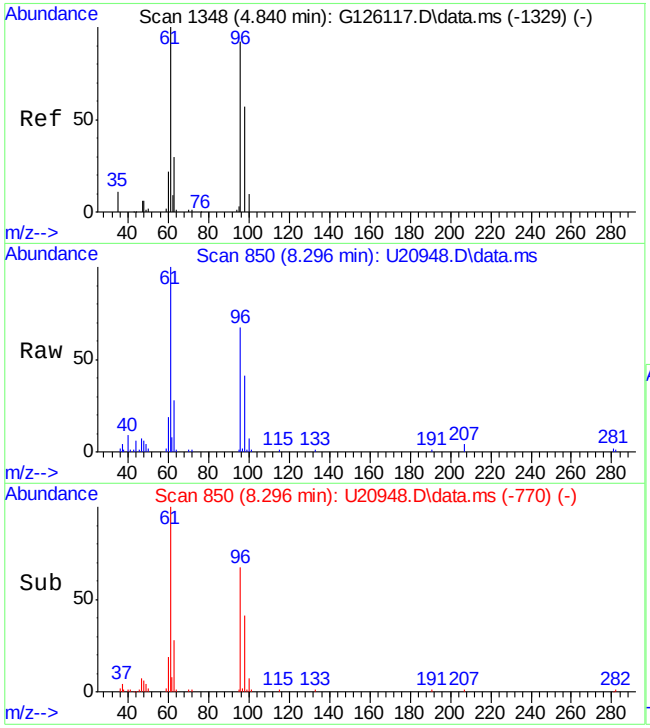


#16
acetone
Concen: 2.56 ppb
RT: 6.191 min Scan# 537
Delta R.T. 0.013 min
Lab File: U20948.D
Acq: 8 Jul 2014 4:05 pm

Tgt Ion: 58 Resp: 5014

Ion	Ratio	Lower	Upper
58	100		
43	190.7	278.8	338.8#

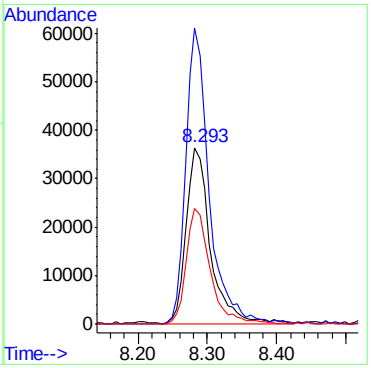


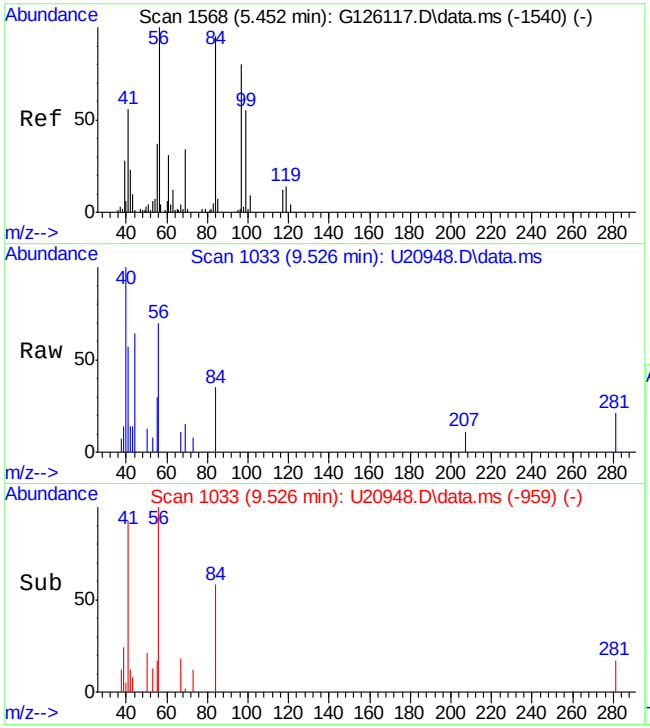


#37
cis-1,2-dichloroethene
Concen: 9.30 ppb
RT: 8.293 min Scan# 850
Delta R.T. 0.004 min
Lab File: U20948.D
Acq: 8 Jul 2014 4:05 pm

Tgt Ion: 96 Resp: 88615

Ion	Ratio	Lower	Upper
96	100		
61	148.9	126.3	186.3
98	60.8	36.2	96.2

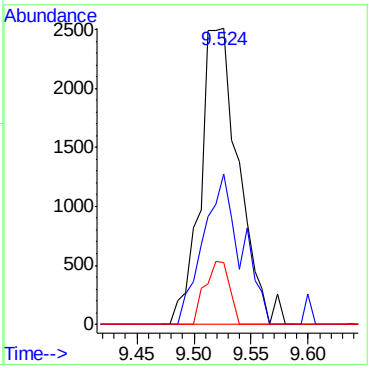




#44
Cyclohexane
Concen: 0.37 ppb
RT: 9.524 min Scan# 1033
Delta R.T. -0.002 min
Lab File: U20948.D
Acq: 8 Jul 2014 4:05 pm

Tgt Ion: 56 Resp: 5873

Ion	Ratio	Lower	Upper
56	100		
84	50.9	54.2	81.2#
69	20.9	18.3	27.5



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140707\
Data File : U20913.D
Acq On : 7 Jul 2014 2:18 pm
Operator : GaryK
Sample : mc31799-31
Misc : ms32235,msu936,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 07 14:46:44 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

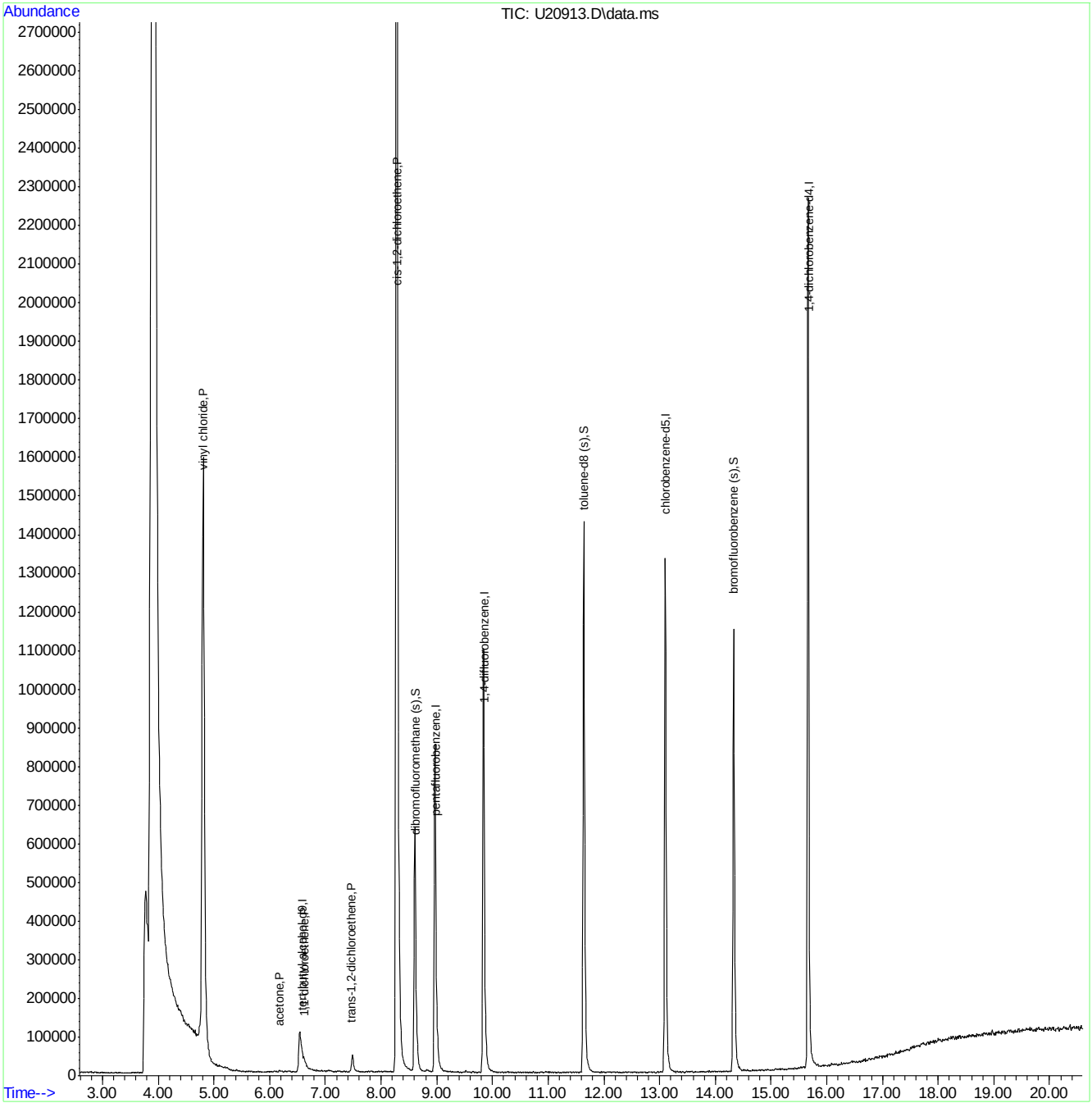
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.594	65	283689	50.00	ppb		0.00
4) pentafluorobenzene	8.979	168	713706	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.847	114	1115968	50.00	ppb		0.00
66) chlorobenzene-d5	13.106	82	415690	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.670	152	708590	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.616	113	480214	62.17	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 124.34%				
60) toluene-d8 (s)	11.645	98	1099304	51.64	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.28%				
82) bromofluorobenzene (s)	14.336	95	446672	49.76	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.52%				
Target Compounds							Qvalue
7) vinyl chloride	4.816	62	3236822	238.76	ppb		98
15) 1,1-dichloroethene	6.627	96	4678	0.58	ppb		85
16) acetone	6.178	58	1659	0.82	ppb		88
22) trans-1,2-dichloroethene	7.459	96	3295	0.36	ppb	#	54
37) cis-1,2-dichloroethene	8.290	96	1934789	197.37	ppb		98

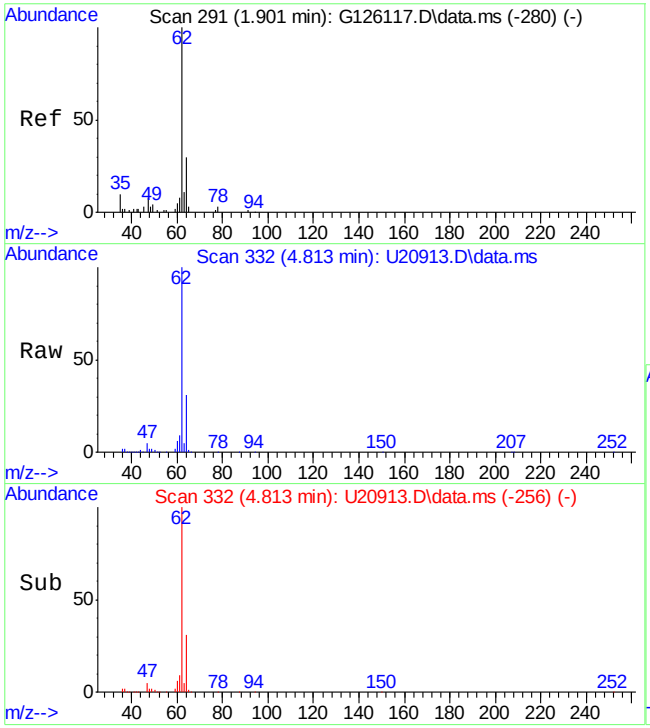
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140707\
Data File : U20913.D
Acq On : 7 Jul 2014 2:18 pm
Operator : GaryK
Sample : mc31799-31
Misc : ms32235,msu936,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 07 14:46:44 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

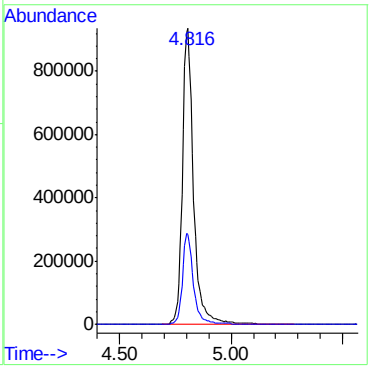


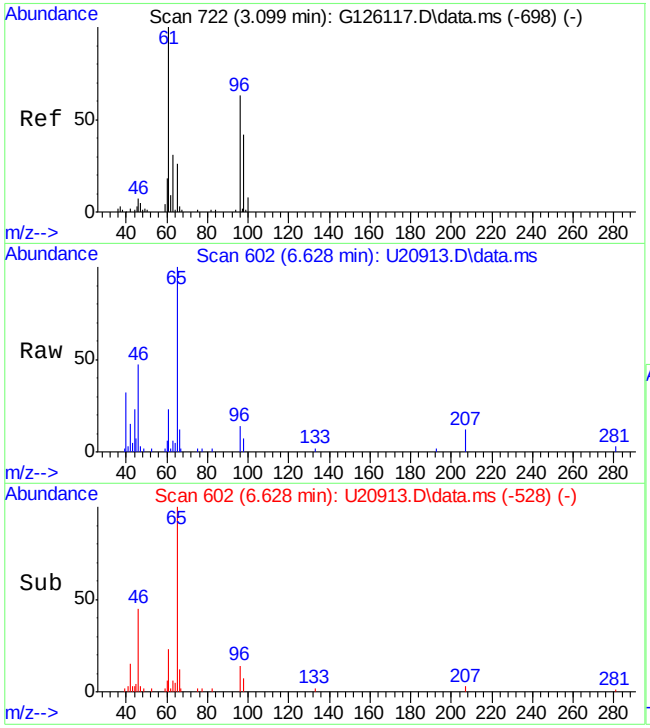


#7
vinyl chloride
Concen: 238.76 ppb
RT: 4.816 min Scan# 332
Delta R.T. 0.017 min
Lab File: U20913.D
Acq: 7 Jul 2014 2:18 pm

Tgt Ion: 62 Resp: 3236822

Ion	Ratio	Lower	Upper
62	100		
64	30.9	1.8	61.8

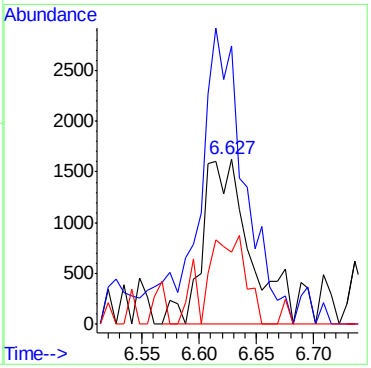


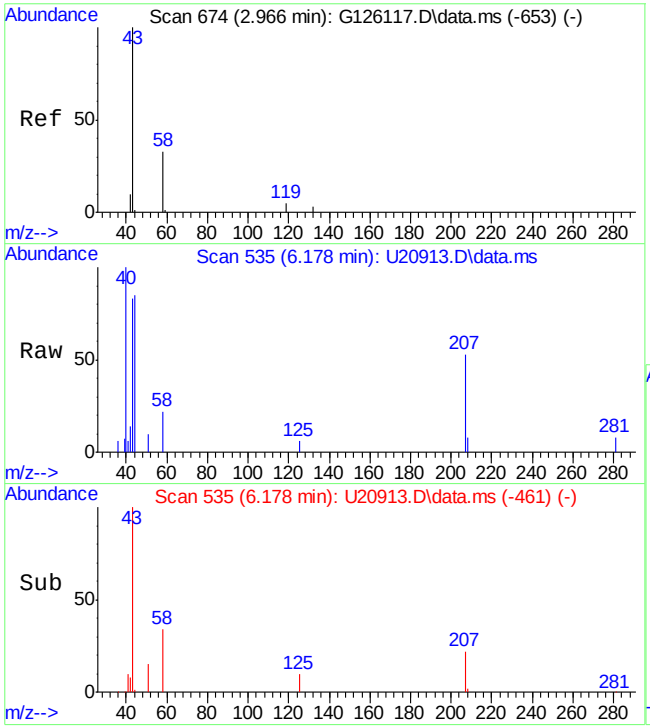


#15
1,1-dichloroethene
Concen: 0.58 ppb
RT: 6.627 min Scan# 602
Delta R.T. -0.002 min
Lab File: U20913.D
Acq: 7 Jul 2014 2:18 pm

Tgt Ion: 96 Resp: 4678

Ion	Ratio	Lower	Upper
96	100		
61	168.9	158.7	218.7
63	43.3	27.6	87.6

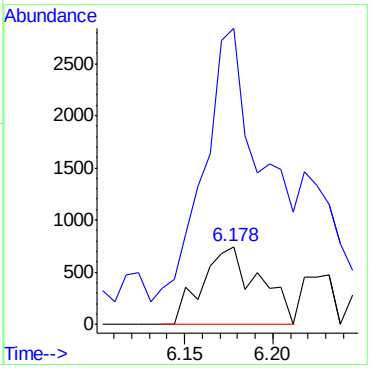


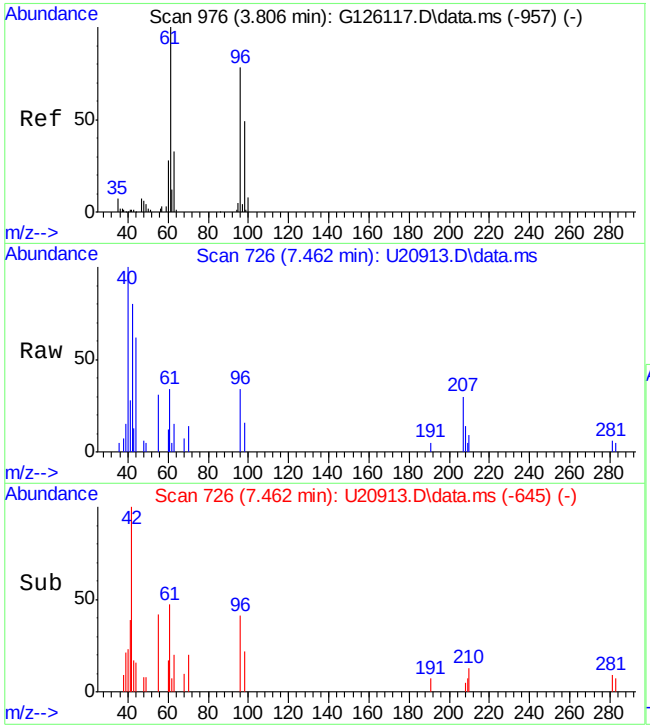


#16
acetone
Concen: 0.82 ppb
RT: 6.178 min Scan# 535
Delta R.T. -0.000 min
Lab File: U20913.D
Acq: 7 Jul 2014 2:18 pm

Tgt Ion: 58 Resp: 1659

Ion	Ratio	Lower	Upper
58	100		
43	333.4	278.8	338.8

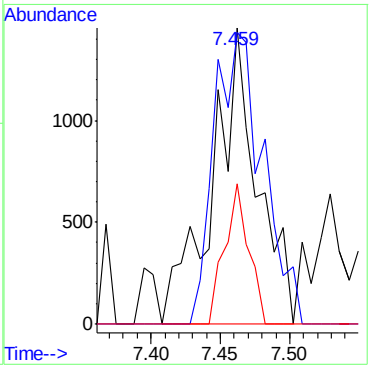


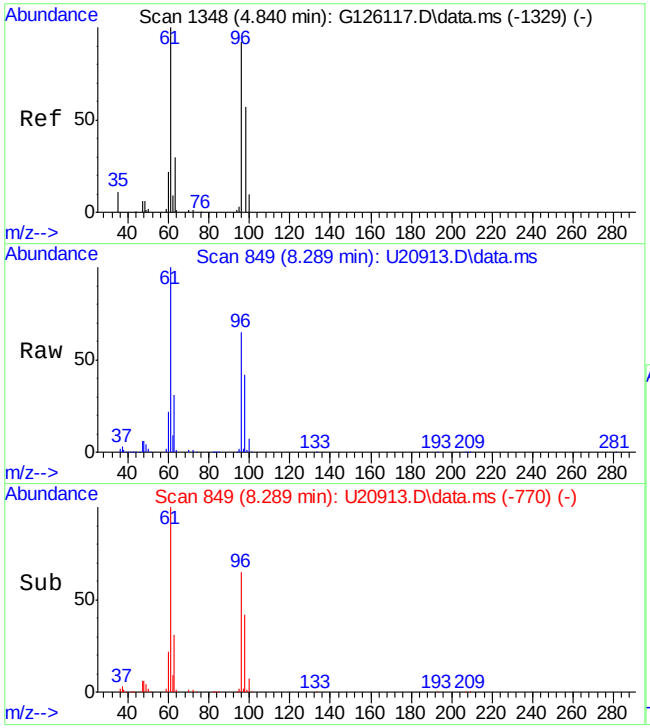


#22
trans-1,2-dichloroethene
Concen: 0.36 ppb
RT: 7.459 min Scan# 726
Delta R.T. -0.008 min
Lab File: U20913.D
Acq: 7 Jul 2014 2:18 pm

Tgt Ion: 96 Resp: 3295

Ion	Ratio	Lower	Upper
96	100		
61	98.4	145.5	205.5#
98	47.3	35.2	95.2

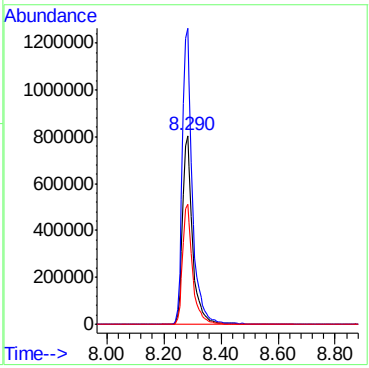




#37
cis-1,2-dichloroethene
Concen: 197.37 ppb
RT: 8.290 min Scan# 849
Delta R.T. 0.001 min
Lab File: U20913.D
Acq: 7 Jul 2014 2:18 pm

Tgt Ion: 96 Resp: 1934789

Ion	Ratio	Lower	Upper
96	100		
61	154.1	126.3	186.3
98	64.7	36.2	96.2



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140707\
Data File : U20914.D
Acq On : 7 Jul 2014 2:45 pm
Operator : GaryK
Sample : mc31799-32
Misc : ms32235,msu936,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 07 15:15:41 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

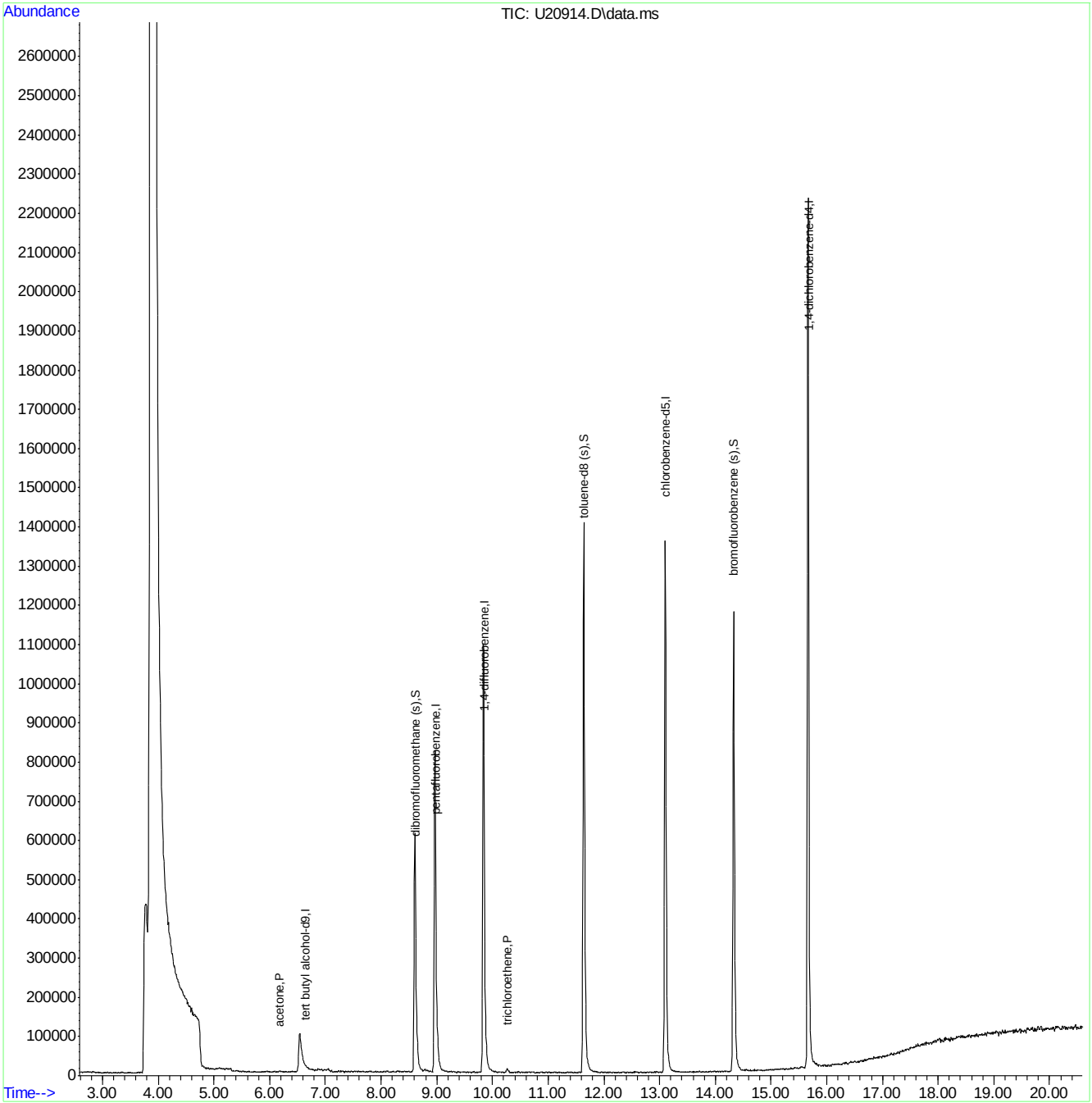
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.632	65	288480	50.00	ppb		0.04
4) pentafluorobenzene	8.979	168	701716	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.847	114	1100135	50.00	ppb		0.00
66) chlorobenzene-d5	13.106	82	425164	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.669	152	703385	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.616	113	466197	61.39	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 122.78%				
60) toluene-d8 (s)	11.644	98	1067068	50.85	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.70%				
82) bromofluorobenzene (s)	14.335	95	460021	51.63	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.26%				
Target Compounds							Qvalue
16) acetone	6.178	58	1605	0.81	ppb	#	43
51) trichloroethene	10.273	95	3520	0.46	ppb	#	67

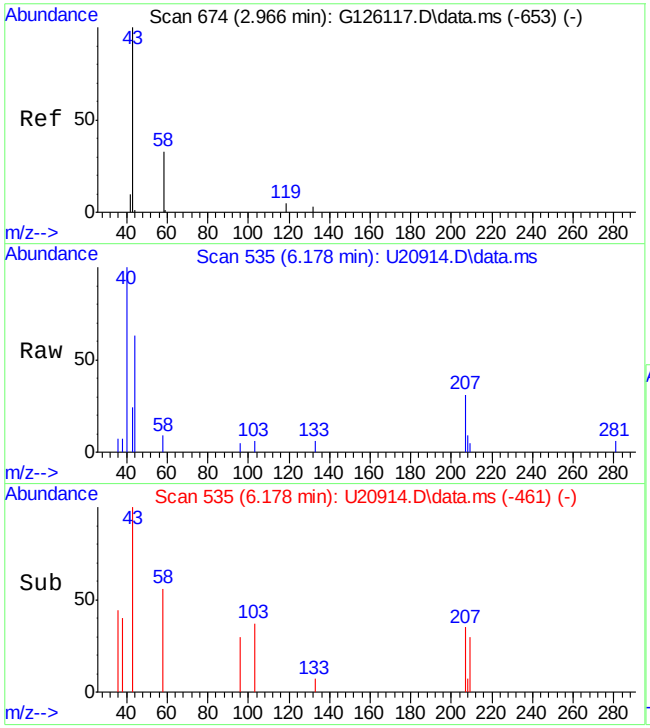
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140707\
Data File : U20914.D
Acq On : 7 Jul 2014 2:45 pm
Operator : GaryK
Sample : mc31799-32
Misc : ms32235,msu936,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 07 15:15:41 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

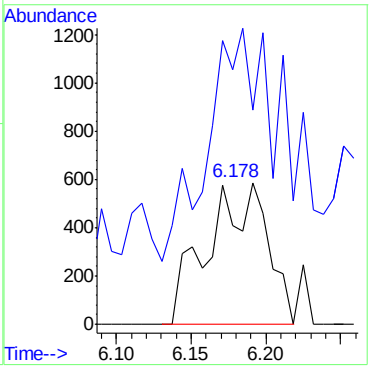


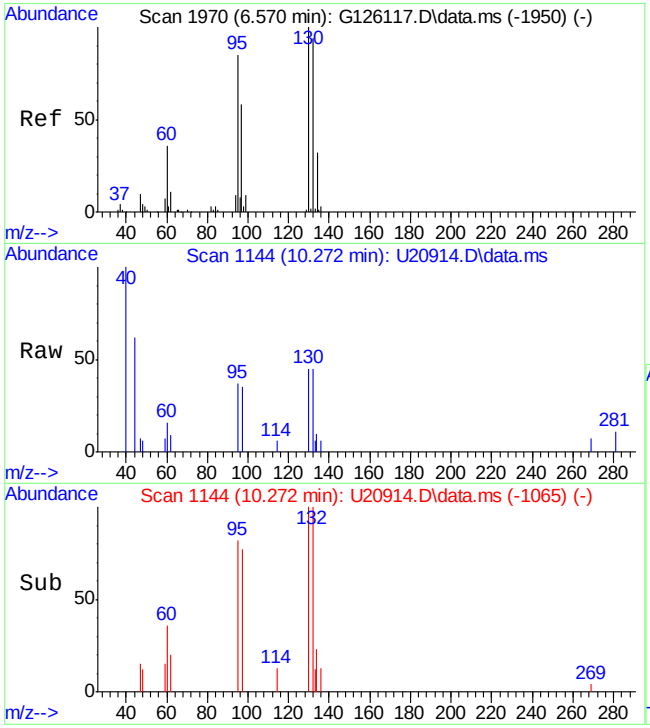


#16
acetone
Concen: 0.81 ppb
RT: 6.178 min Scan# 535
Delta R.T. 0.000 min
Lab File: U20914.D
Acq: 7 Jul 2014 2:45 pm

Tgt Ion: 58 Resp: 1605

Ion	Ratio	Lower	Upper
58	100		
43	194.8	278.8	338.8#

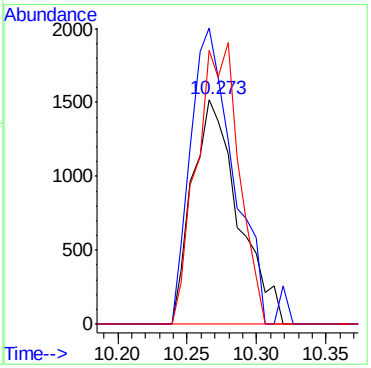




#51
trichloroethene
Concen: 0.46 ppb
RT: 10.273 min Scan# 1144
Delta R.T. 0.012 min
Lab File: U20914.D
Acq: 7 Jul 2014 2:45 pm

Tgt Ion: 95 Resp: 3520

Ion	Ratio	Lower	Upper
95	100		
130	122.1	58.8	118.8#
132	121.8	62.5	122.5



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140707\
Data File : U20909.D
Acq On : 7 Jul 2014 12:29 pm
Operator : GaryK
Sample : mc31799-33
Misc : ms32235,msu936,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 07 13:16:22 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

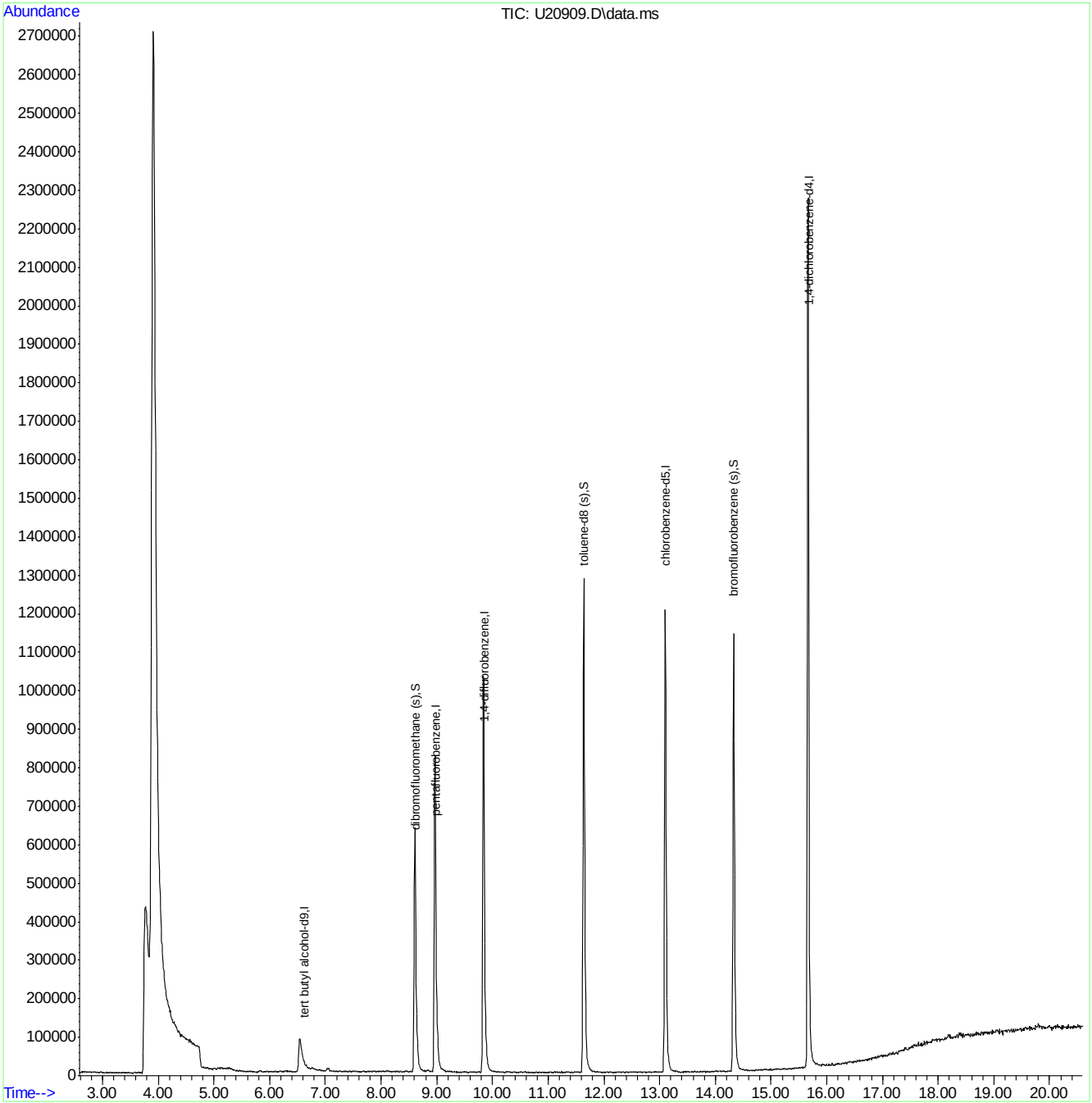
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.622	65	275809	50.00	ppb		0.03
4) pentafluorobenzene	8.980	168	702859	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.848	114	1046887	50.00	ppb		0.00
66) chlorobenzene-d5	13.106	82	387242	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.669	152	720741	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.618	113	488289	64.19	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 128.38%				
60) toluene-d8 (s)	11.646	98	991184	49.64	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.28%				
82) bromofluorobenzene (s)	14.335	95	450706	49.37	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.74%				
Target Compounds							Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140707\
Data File : U20909.D
Acq On : 7 Jul 2014 12:29 pm
Operator : GaryK
Sample : mc31799-33
Misc : ms32235,msu936,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 07 13:16:22 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140707\
Data File : U20908.D
Acq On : 7 Jul 2014 12:02 pm
Operator : GaryK
Sample : mc31799-34
Misc : ms32235,msu936,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 07 13:15:13 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

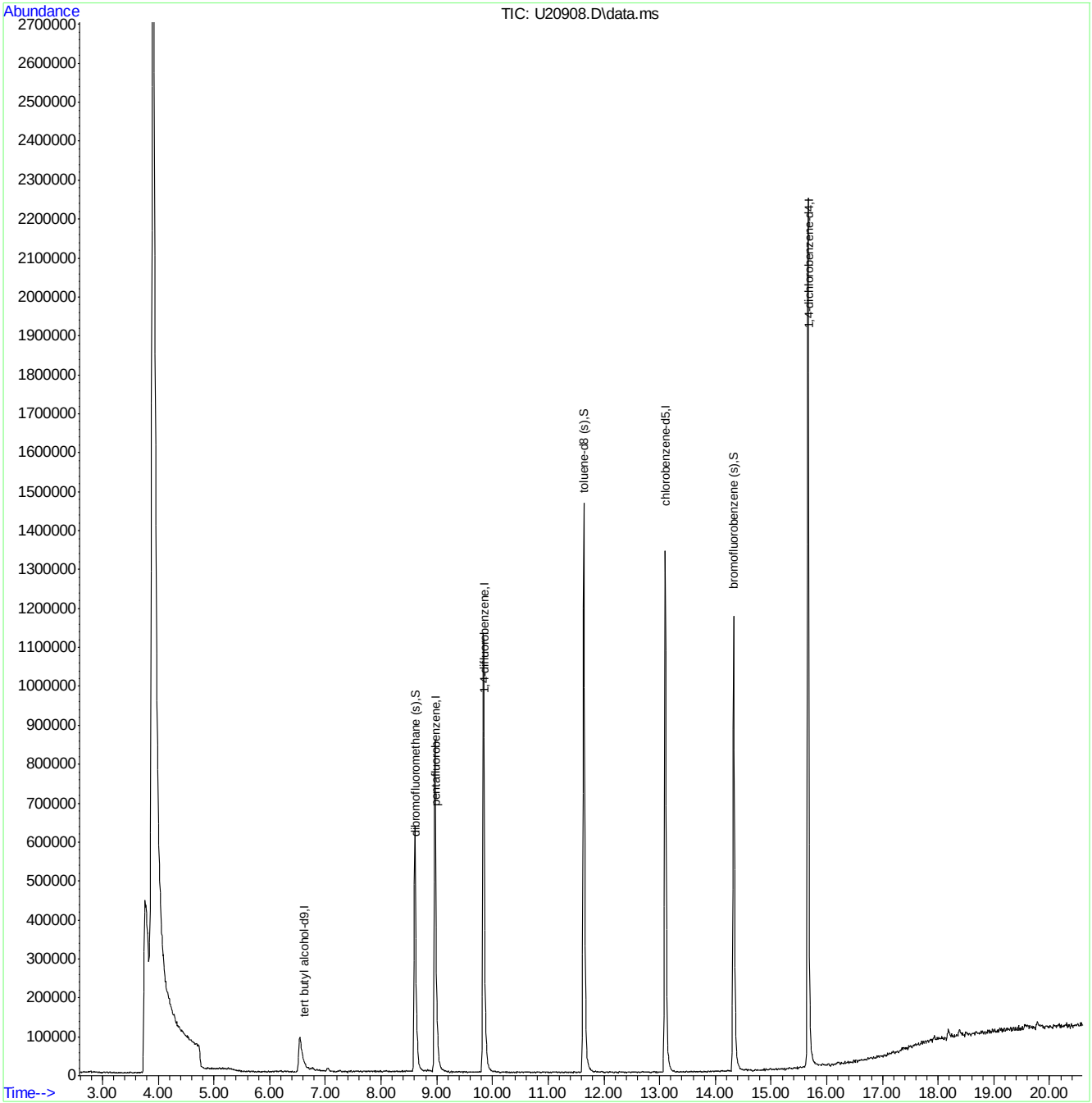
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.615	65	270084	50.00	ppb		0.02
4) pentafluorobenzene	8.980	168	720252	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.847	114	1155324	50.00	ppb		0.00
66) chlorobenzene-d5	13.106	82	428427	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.669	152	719788	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.617	113	477362	61.24	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 122.48%				
60) toluene-d8 (s)	11.645	98	1131502	51.34	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.68%				
82) bromofluorobenzene (s)	14.335	95	462332	50.71	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.42%				
Target Compounds							Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140707\
Data File : U20908.D
Acq On : 7 Jul 2014 12:02 pm
Operator : GaryK
Sample : mc31799-34
Misc : ms32235,msu936,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 07 13:15:13 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20832.D
Acq On : 3 Jul 2014 10:42 am
Operator : GaryK
Sample : mb
Misc : ms32217,msu934,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 03 11:27:07 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

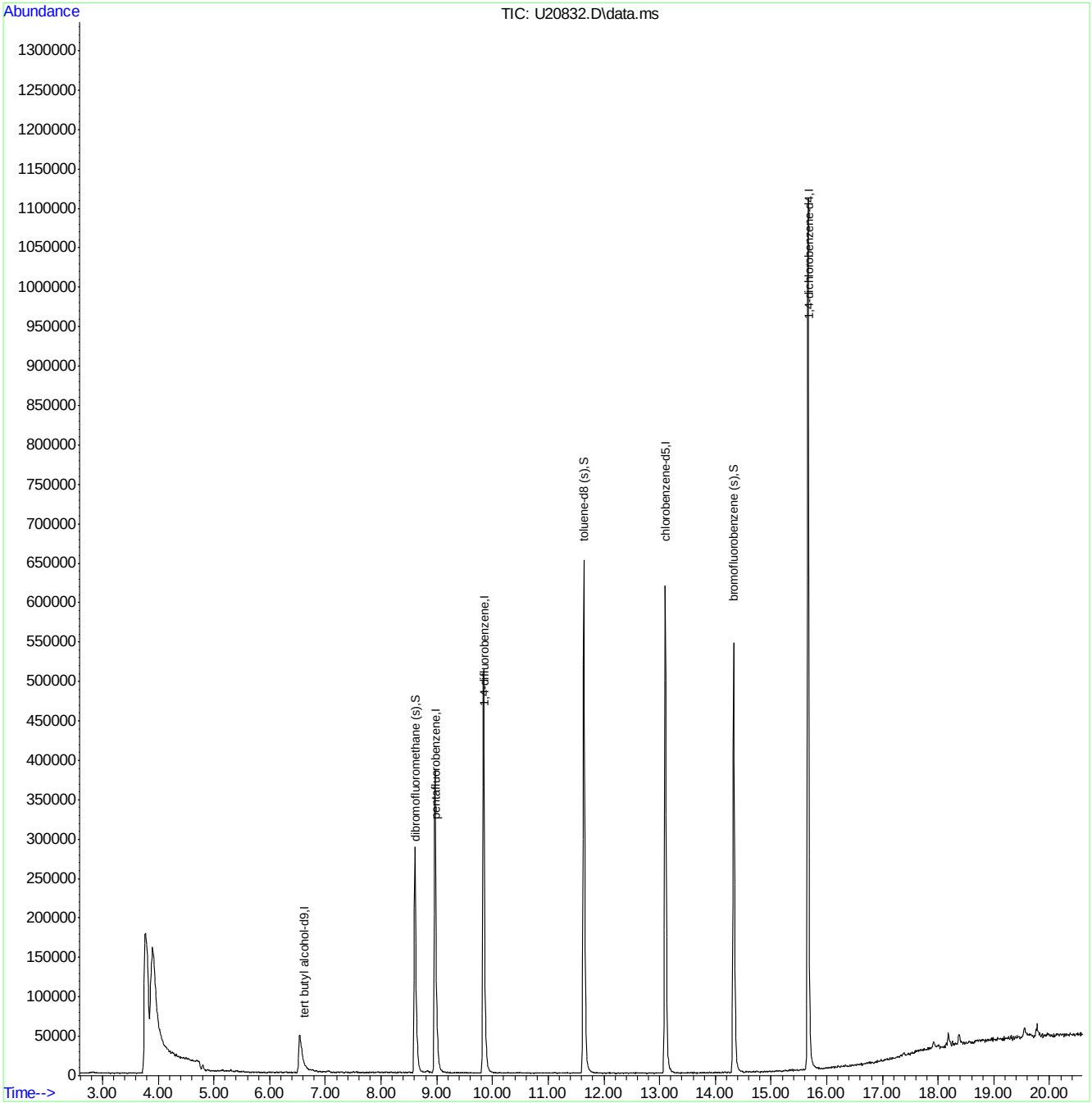
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.613	65	145411	50.00	ppb		0.02
4) pentafluorobenzene	8.980	168	329010	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.848	114	521168	50.00	ppb		0.00
66) chlorobenzene-d5	13.106	82	198226	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.668	152	350884	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.618	113	221166	62.11	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 124.22%				
60) toluene-d8 (s)	11.645	98	508345	51.14	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.28%				
82) bromofluorobenzene (s)	14.334	95	222541	50.07	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.14%				
Target Compounds							Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20832.D
Acq On : 3 Jul 2014 10:42 am
Operator : GaryK
Sample : mb
Misc : ms32217,msu934,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 03 11:27:07 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration



ACCUTEST LABORATORIES MC31799

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140707\
Data File : U20907.D
Acq On : 7 Jul 2014 11:35 am
Operator : GaryK
Sample : mb
Misc : ms32230,msu936,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 07 13:14:11 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

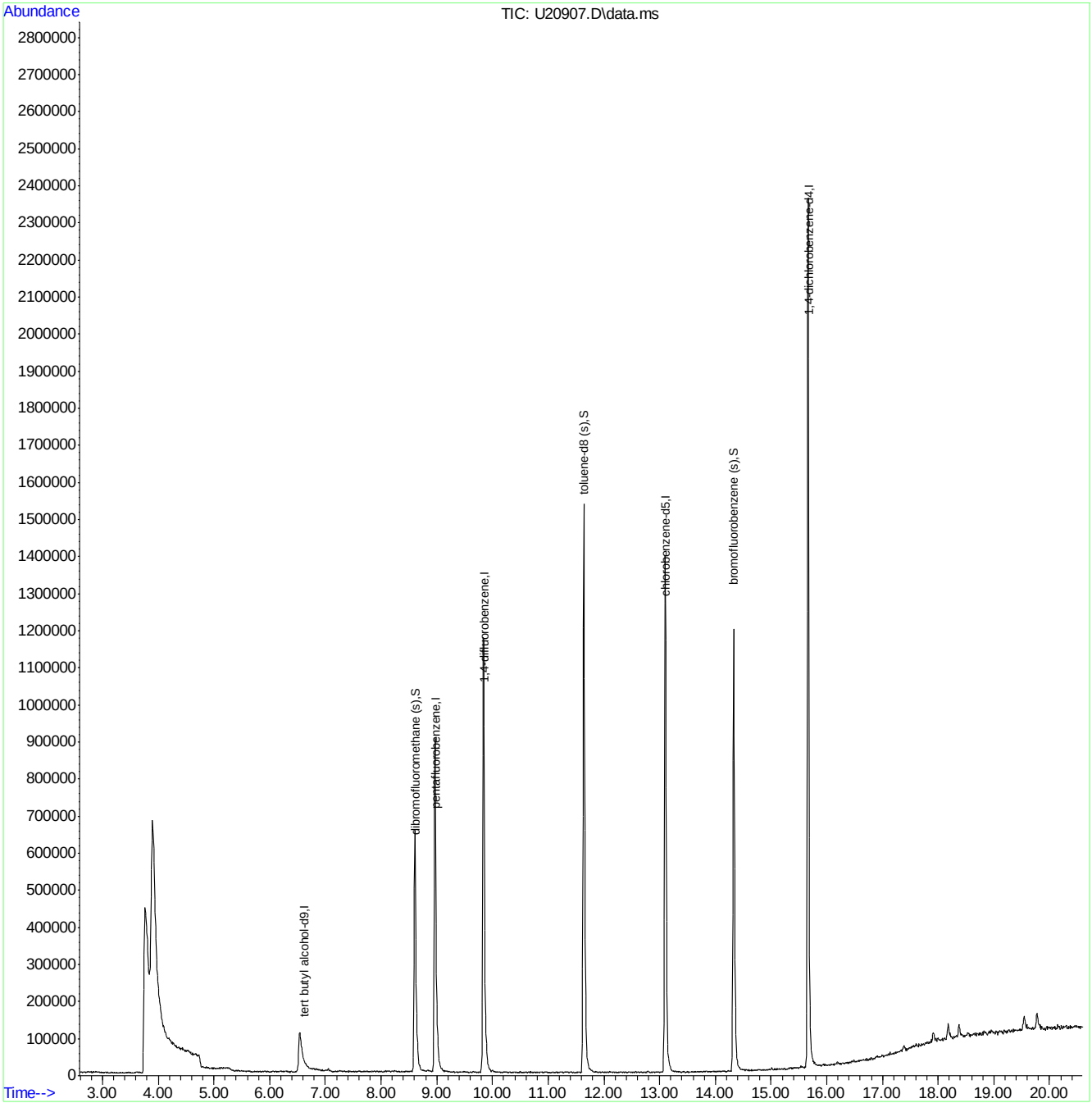
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.622	65	340318	50.00	ppb	0.03
4) pentafluorobenzene	8.979	168	757317	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.847	114	1191477	50.00	ppb	0.00
66) chlorobenzene-d5	13.107	82	443805	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.669	152	730752	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.618	113	500376	61.05	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 122.10%			
60) toluene-d8 (s)	11.645	98	1173596	51.64	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.28%			
82) bromofluorobenzene (s)	14.335	95	474878	51.30	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.60%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140707\
Data File : U20907.D
Acq On : 7 Jul 2014 11:35 am
Operator : GaryK
Sample : mb
Misc : ms32230,msu936,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 07 13:14:11 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20935.D
Acq On : 8 Jul 2014 10:12 am
Operator : GaryK
Sample : mb
Misc : ms32230,msu937,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 08 11:26:20 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

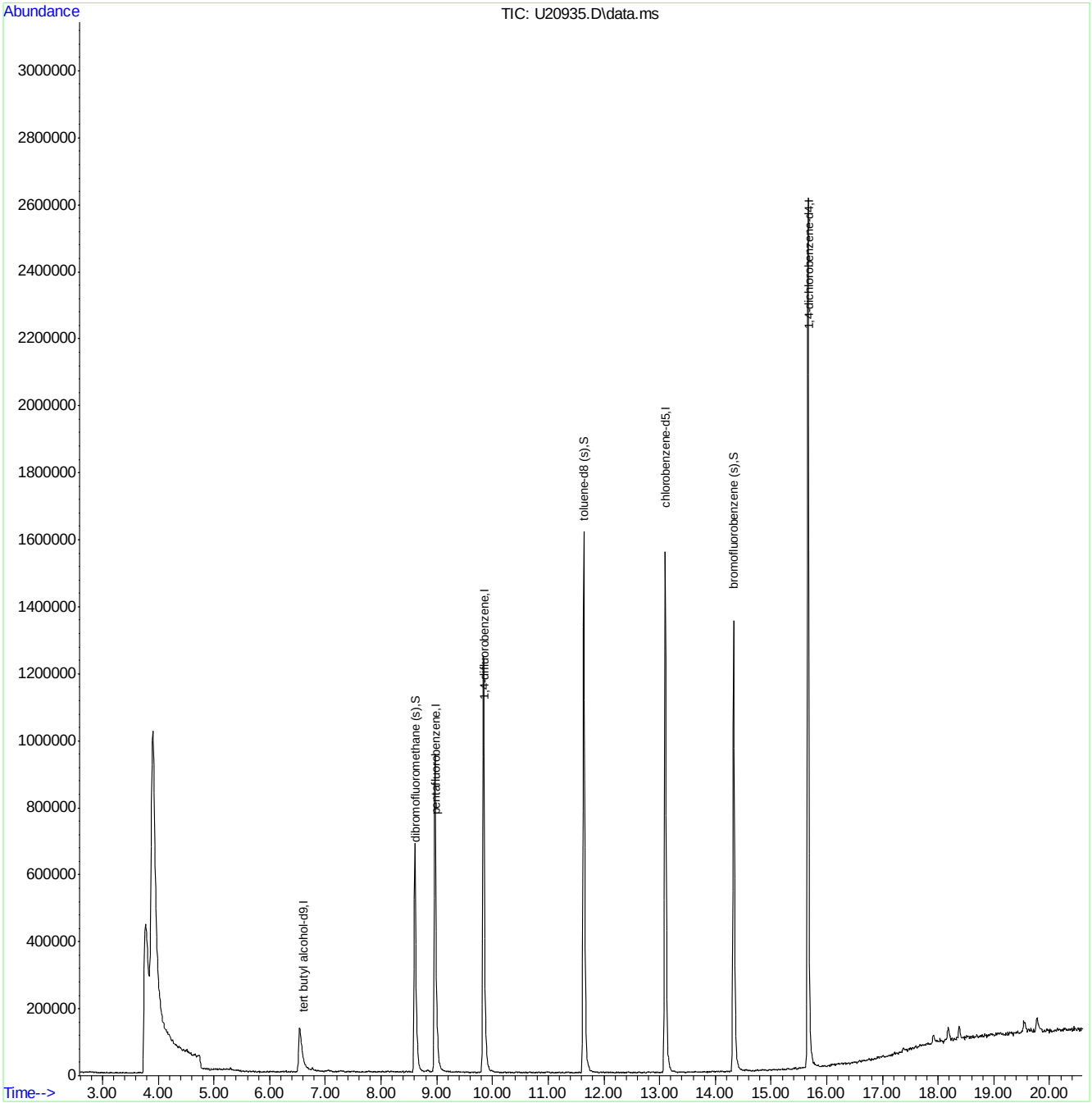
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.600	65	360142	50.00	ppb		0.00
4) pentafluorobenzene	8.979	168	799265	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.847	114	1259112	50.00	ppb		0.00
66) chlorobenzene-d5	13.106	82	492575	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.668	152	828323	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.617	113	525144	60.71	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 121.42%				
60) toluene-d8 (s)	11.645	98	1264475	52.65	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 105.30%				
82) bromofluorobenzene (s)	14.335	95	536637	51.14	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.28%				
Target Compounds							Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20935.D
Acq On : 8 Jul 2014 10:12 am
Operator : GaryK
Sample : mb
Misc : ms32230,msu937,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 08 11:26:20 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration



ACCUTEST LABORATORIES MC31799

Manual Integrations APPROVED
(compounds with "m" flag)
Tomasz Torski
07/07/14 14:02

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20829.D
Acq On : 3 Jul 2014 9:20 am
Operator : GaryK
Sample : bs
Misc : ms32206,msu934,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 03 11:25:23 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.602	65	144773	50.00	ppb		0.00
4) pentafluorobenzene	8.974	168	342646	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.843	114	579510	50.00	ppb		0.00
66) chlorobenzene-d5	13.098	82	242202	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.663	152	352060	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.614	113	227978	61.48	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 122.96%				
60) toluene-d8 (s)	11.640	98	611476	55.32	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 110.64%				
82) bromofluorobenzene (s)	14.328	95	230767	51.75	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.50%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	6.289	59	173358	565.19	ppb		93
3) Ethanol	5.587	45	261484	5849.68	ppb		96
5) dichlorodifluoromethane	4.345	85	156253	45.11	ppb		98
6) chloromethane	4.551	50	471644	51.69	ppb		95
7) vinyl chloride	4.803	62	295974	45.47	ppb		97
8) bromomethane	5.280	96	180578	52.43	ppb		90
9) chloroethane	5.420	64	146827	49.47	ppb		98
10) ethyl ether	6.289	59	173358	50.00	ppb		91
11) acetonitrile	6.070	41	25701m	43.41	ppb		
12) trichlorofluoromethane	6.065	101	341190	47.74	ppb		99
13) freon-113	6.832	101	236409	52.25	ppb		87
14) acrolein	6.060	56	2643	4.31	ppb		92
15) 1,1-dichloroethene	6.631	96	194147	50.09	ppb		97
16) acetone	6.205	58	26215m	27.12	ppb		
17) Methyl Acetate	6.824	43	193528	53.05	ppb	#	85
18) methylene chloride	6.779	84	203608	48.56	ppb	#	78
19) methyl tert butyl ether	7.564	73	415761	40.77	ppb		88
20) acrylonitrile	6.709	53	86770	46.39	ppb		96
21) allyl chloride	6.873	41	433243	50.90	ppb		91
22) trans-1,2-dichloroethene	7.468	96	217988	48.94	ppb		94
23) iodomethane	6.688	142	367279	47.09	ppb		98
24) carbon disulfide	7.053	76	548329	47.69	ppb		96
25) propionitrile	8.081	54	21860	58.95	ppb		100
26) vinyl acetate	7.821	43	381665	63.37	ppb		98
27) chloroprene	8.082	53	402435	59.15	ppb		92
28) di-isopropyl ether	8.123	45	846656	51.84	ppb		97
29) methacrylonitrile	8.240	41	122711	50.49	ppb		91
30) 2-butanone	8.133	72	16277	31.89	ppb	#	1
31) Ethyl Acetate	8.118	43	673601	47.36	ug/L		91
32) Hexane	8.105	41	339590	48.93	ppb	#	81
33) 1,1-dichloroethane	7.718	63	410954	50.77	ppb		100
34) tert-butyl ethyl ether	8.518	59	575961	40.23	ppb		99
35) isobutyl alcohol	8.544	43	125098	240.29	ppb	#	15
36) 2,2-dichloropropane	8.576	77	221331	45.25	ppb		93

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20829.D
Acq On : 3 Jul 2014 9:20 am
Operator : GaryK
Sample : bs
Misc : ms32206,msu934,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 03 11:25:23 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) cis-1,2-dichloroethene	8.288	96	227094	48.25	ppb		93
38) bromochloromethane	8.454	128	125053	52.11	ppb	#	83
39) chloroform	8.492	83	338362	48.72	ppb		100
41) Tetrahydrofuran	8.840	42	69244	50.97	ppb		84
42) 1,1,1-trichloroethane	9.241	97	318530	49.89	ppb		97
44) Cyclohexane	9.526	56	441048	51.20	ppb		88
45) carbon tetrachloride	9.605	117	298072	51.08	ppb		99
46) 1,1-dichloropropene	9.417	75	220596	48.44	ppb		90
47) benzene	9.641	78	628375	46.80	ppb		95
48) 1,2-dichloroethane	9.142	62	253620	47.95	ppb		99
49) tert-amyl methyl ether	9.764	73	385805	38.89	ppb		87
50) heptane	10.122	43	301265	53.65	ppb	#	60
51) trichloroethene	10.261	95	183764	45.32	ppb		76
52) 1,2-dichloropropane	10.229	63	187842	48.07	ppb		99
53) dibromomethane	10.203	93	109905	49.28	ppb		88
54) bromodichloromethane	10.316	83	229518	50.59	ppb		96
55) Methylcyclohexane	10.779	83	314744	51.77	ppb		86
56) 2-chloroethyl vinyl ether	10.702	63	66055	38.25	ppb		96
57) methyl methacrylate	10.421	69	67186	46.43	ppb	#	72
58) 1,4-dioxane	10.458	88	7476	301.44	ppb		97
59) cis-1,3-dichloropropene	10.936	75	209354	45.82	ppb		91
61) 4-methyl-2-pentanone	11.044	43	194150	49.39	ppb		94
62) toluene	11.712	92	345509	47.66	ppb		96
63) trans-1,3-dichloropropene	11.358	75	170616	48.34	ppb		95
64) 1,1,2-trichloroethane	11.530	83	99285	46.62	ppb		93
65) ethyl methacrylate	11.739	69	127283	42.65	ppb		77
67) tetrachloroethene	12.455	166	175684	52.46	ppb		97
68) 1,3-dichloropropane	11.765	76	174595	48.38	ppb		92
69) dibromochloromethane	12.055	129	187776	52.09	ppb		98
70) 1,2-dibromoethane	12.308	107	138046	50.21	ppb		98
71) 2-hexanone	11.925	43	109997	36.87	ppb		97
72) chlorobenzene	13.135	112	438476	49.71	ppb		86
73) 1,1,1,2-tetrachloroethane	13.054	131	234311	53.79	ppb		98
74) ethylbenzene	13.310	91	692004	49.84	ppb		91
75) m,p-xylene	13.495	106	576300	98.82	ppb		85
76) o-xylene	13.908	106	334167	51.09	ppb		85
77) styrene	13.835	104	438389	48.38	ppb		96
78) bromoform	13.662	173	119211	47.60	ppb		99
79) trans-1,4-dichloro-2-b...	14.065	53	18196	15.39	ppb	#	1
81) isopropylbenzene	14.271	105	933416	54.72	ppb		95
83) bromobenzene	14.559	156	227275	50.08	ppb	#	75
84) 1,1,2,2-tetrachloroethane	13.913	83	200829	58.06	ppb		98
85) 1,2,3-trichloropropane	14.063	75	153896	38.26	ppb		99
86) n-propylbenzene	14.717	91	918765	49.65	ppb		91
87) 2-chlorotoluene	14.835	91	600334	50.84	ppb		80
88) 4-chlorotoluene	14.911	91	574980	48.46	ppb		84
89) 1,3,5-trimethylbenzene	14.994	105	872056	51.94	ppb		95
90) tert-butylbenzene	15.299	91	489758	53.52	ppb		84
91) 1,2,4-trimethylbenzene	15.403	105	857215	50.41	ppb		97
92) sec-butylbenzene	15.522	105	1174418	55.12	ppb		92

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20829.D
Acq On : 3 Jul 2014 9:20 am
Operator : GaryK
Sample : bs
Misc : ms32206,msu934,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 03 11:25:23 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
93)	1,3-dichlorobenzene	15.625	146	526126	52.55	ppb		97
94)	p-isopropyltoluene	15.695	119	1028359	53.57	ppb		94
95)	1,4-dichlorobenzene	15.692	146	521007	49.54	ppb		98
96)	1,2-dichlorobenzene	16.061	146	584392	53.81	ppb		97
97)	n-butylbenzene	16.114	91	894154	53.46	ppb		84
98)	1,2-dibromo-3-chloropr...	16.544	75	51632	46.37	ppb	#	67
99)	1,3,5-trichlorobenzene	17.353	180	501699	59.56	ug/L		95
100)	1,2,4-trichlorobenzene	17.892	180	495166	62.36	ppb		94
101)	hexachlorobutadiene	18.181	225	228151	62.25	ppb		95
102)	naphthalene	18.158	128	1209831	59.15	ppb		100
103)	2-Methylnaphthalene	19.526	142	340647	34.35	ug/L		97
104)	1-Methylnaphthalene	19.773	142	284360	34.94	ug/L		97
105)	1,2,3-trichlorobenzene	18.364	180	457588	63.21	ppb		93

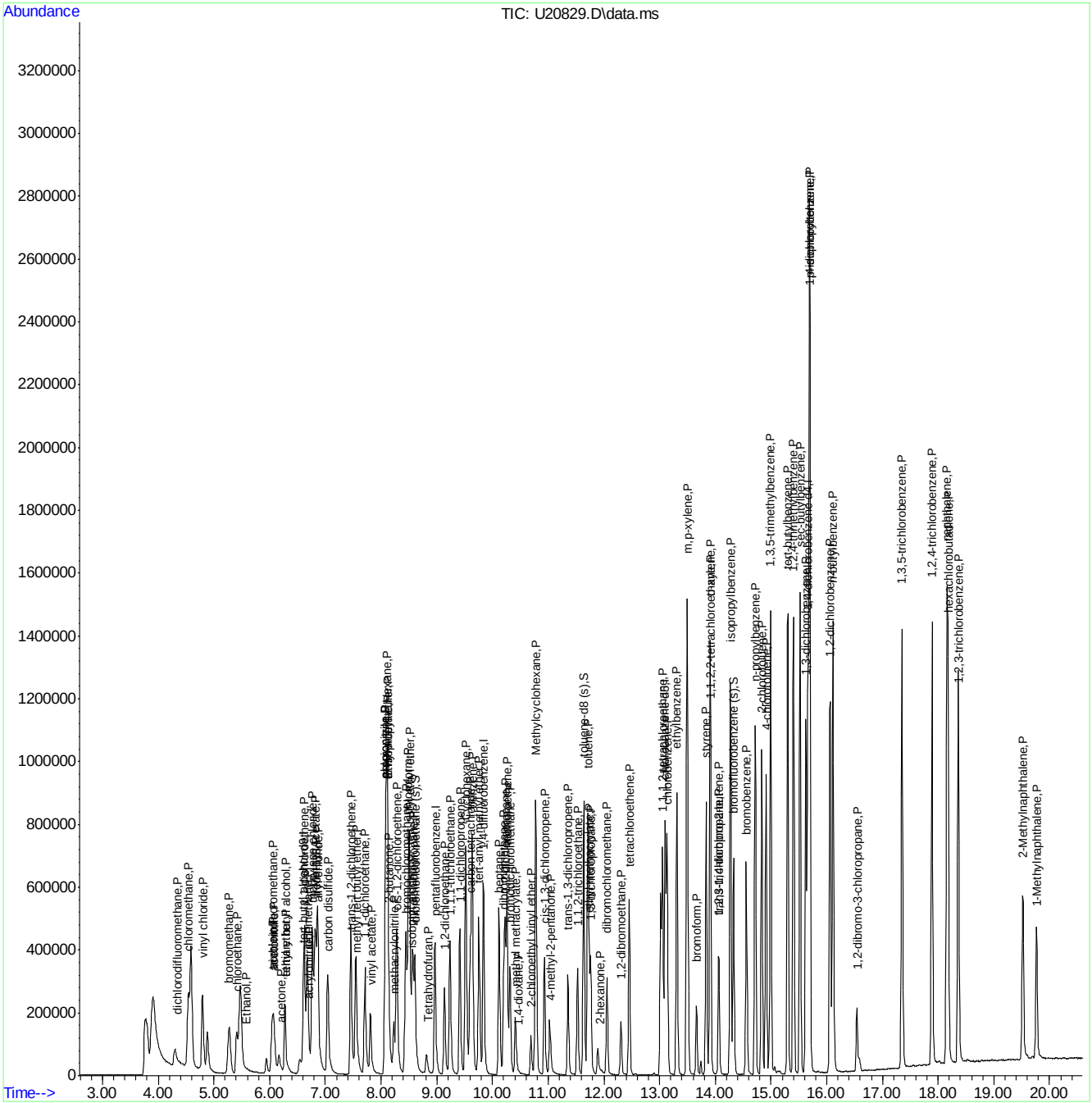
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.3.1
7

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20829.D
Acq On : 3 Jul 2014 9:20 am
Operator : GaryK
Sample : bs
Misc : ms32206,msu934,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 03 11:25:23 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration



ACCUTEST LABORATORIES MC31799

Manual Integrations APPROVED
(compounds with "m" flag)
Tomasz Torski
07/08/14 08:54

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140707\
Data File : U20904.D
Acq On : 7 Jul 2014 10:12 am
Operator : GaryK
Sample : bs
Misc : ms32230,msu936,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 07 13:12:33 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.613	65	394884	50.00	ppb		0.02
4) pentafluorobenzene	8.975	168	759080	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.843	114	1264002	50.00	ppb		0.00
66) chlorobenzene-d5	13.098	82	544333	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.663	152	786624	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.613	113	495249	60.28	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 120.56%				
60) toluene-d8 (s)	11.640	98	1322869	54.87	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 109.74%				
82) bromofluorobenzene (s)	14.328	95	509939	51.18	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.36%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	6.289	59	367350	439.08	ppb		92
3) Ethanol	5.579	45	715697	5870.43	ppb		96
5) dichlorodifluoromethane	4.346	85	274830	35.81	ppb		85
6) chloromethane	4.555	50	1032661	51.09	ppb		99
7) vinyl chloride	4.807	62	621800	43.12	ppb		96
8) bromomethane	5.289	96	382883	50.18	ppb		95
9) chloroethane	5.422	64	305881	46.52	ppb		99
10) ethyl ether	6.290	59	367876	47.89	ppb		90
11) acetonitrile	6.077	41	71320m	54.37	ppb		
12) trichlorofluoromethane	6.067	101	724333	45.75	ppb		93
13) freon-113	6.836	101	524172	52.30	ppb		88
14) acrolein	6.059	56	37505	27.60	ppb		92
15) 1,1-dichloroethene	6.634	96	426415	49.66	ppb		97
16) acetone	6.221	58	58040	27.10	ppb		95
17) Methyl Acetate	6.820	43	428070	52.97	ppb	#	82
18) methylene chloride	6.781	84	441756	47.56	ppb	#	79
19) methyl tert butyl ether	7.565	73	957217	42.37	ppb		88
20) acrylonitrile	6.705	53	202782	48.94	ppb		86
21) allyl chloride	6.875	41	1015650	53.86	ppb		90
22) trans-1,2-dichloroethene	7.470	96	469902	47.62	ppb		95
23) iodomethane	6.688	142	797211	46.13	ppb		93
24) carbon disulfide	7.054	76	1163928	45.70	ppb		96
25) propionitrile	8.082	54	48409	58.93	ppb		100
26) vinyl acetate	7.821	43	826624	61.96	ppb		97
27) chloroprene	8.083	53	921595	61.14	ppb		92
28) di-isopropyl ether	8.123	45	1860349	51.42	ppb		95
29) methacrylonitrile	8.239	41	266655	49.53	ppb		91
30) 2-butanone	8.134	72	35081	31.02	ppb	#	1
31) Ethyl Acetate	8.118	43	1487308	47.21	ug/L		91
32) Hexane	8.106	41	772436	50.24	ppb	#	77
33) 1,1-dichloroethane	7.719	63	896281	49.98	ppb		100
34) tert-butyl ethyl ether	8.519	59	1362085	42.95	ppb		99
35) isobutyl alcohol	8.544	43	303490	264.63	ppb	#	41
36) 2,2-dichloropropane	8.576	77	534303	49.31	ppb		90

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140707\
Data File : U20904.D
Acq On : 7 Jul 2014 10:12 am
Operator : GaryK
Sample : bs
Misc : ms32230,msu936,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 07 13:12:33 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) cis-1,2-dichloroethene	8.287	96	487150	46.72	ppb		98
38) bromochloromethane	8.455	128	273035	51.36	ppb	#	87
39) chloroform	8.492	83	742091	48.23	ppb		100
41) Tetrahydrofuran	8.835	42	149717	49.74	ppb		90
42) 1,1,1-trichloroethane	9.241	97	734600	51.94	ppb		95
44) Cyclohexane	9.526	56	982023	52.27	ppb		89
45) carbon tetrachloride	9.605	117	706890	55.53	ppb		99
46) 1,1-dichloropropene	9.417	75	489309	49.27	ppb		91
47) benzene	9.641	78	1344628	45.91	ppb		96
48) 1,2-dichloroethane	9.142	62	566339	49.09	ppb		98
49) tert-amyl methyl ether	9.764	73	908720	41.99	ppb		88
50) heptane	10.121	43	666478	54.41	ppb	#	66
51) trichloroethene	10.261	95	406572	45.97	ppb		73
52) 1,2-dichloropropane	10.229	63	409014	47.98	ppb		99
53) dibromomethane	10.203	93	238690	49.07	ppb		92
54) bromodichloromethane	10.316	83	511034	51.65	ppb		95
55) Methylcyclohexane	10.779	83	682057	51.44	ppb		85
56) 2-chloroethyl vinyl ether	10.702	63	146008	38.76	ppb		96
57) methyl methacrylate	10.422	69	143923	45.60	ppb		81
58) 1,4-dioxane	10.455	88	20054	367.45	ppb		90
59) cis-1,3-dichloropropene	10.936	75	463247	46.48	ppb		87
61) 4-methyl-2-pentanone	11.044	43	445602	51.97	ppb		94
62) toluene	11.712	92	755462	47.78	ppb		100
63) trans-1,3-dichloropropene	11.358	75	381134	49.51	ppb		99
64) 1,1,2-trichloroethane	11.530	83	212785	45.81	ppb		94
65) ethyl methacrylate	11.740	69	274285	42.13	ppb	#	73
67) tetrachloroethene	12.455	166	383132	50.90	ppb		94
68) 1,3-dichloropropane	11.765	76	370121	45.63	ppb		91
69) dibromochloromethane	12.055	129	424668	52.41	ppb		98
70) 1,2-dibromoethane	12.307	107	293900	47.56	ppb		98
71) 2-hexanone	11.919	43	233325	34.80	ppb		100
72) chlorobenzene	13.135	112	969200	48.89	ppb		85
73) 1,1,1,2-tetrachloroethane	13.054	131	533098	54.45	ppb		96
74) ethylbenzene	13.310	91	1511720	48.45	ppb		90
75) m,p-xylene	13.494	106	1269877	96.89	ppb		82
76) o-xylene	13.907	106	738858	50.27	ppb		84
77) styrene	13.835	104	946808	46.49	ppb		97
78) bromoform	13.662	173	275779	48.99	ppb		98
79) trans-1,4-dichloro-2-b...	14.063	53	77976	29.35	ppb	#	46
81) isopropylbenzene	14.271	105	2093155	54.92	ppb		96
83) bromobenzene	14.559	156	501385	49.45	ppb	#	73
84) 1,1,2,2-tetrachloroethane	13.913	83	441459	57.12	ppb		97
85) 1,2,3-trichloropropane	14.062	75	371396	41.32	ppb		100
86) n-propylbenzene	14.716	91	2015845	48.75	ppb		89
87) 2-chlorotoluene	14.834	91	1319680	50.02	ppb		80
88) 4-chlorotoluene	14.910	91	1250921	47.19	ppb		83
89) 1,3,5-trimethylbenzene	14.993	105	1935658	51.60	ppb		94
90) tert-butylbenzene	15.299	91	1091239	53.37	ppb		85
91) 1,2,4-trimethylbenzene	15.402	105	1908930	50.24	ppb		98
92) sec-butylbenzene	15.522	105	2627655	55.20	ppb		91

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140707\
Data File : U20904.D
Acq On : 7 Jul 2014 10:12 am
Operator : GaryK
Sample : bs
Misc : ms32230,msu936,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 07 13:12:33 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

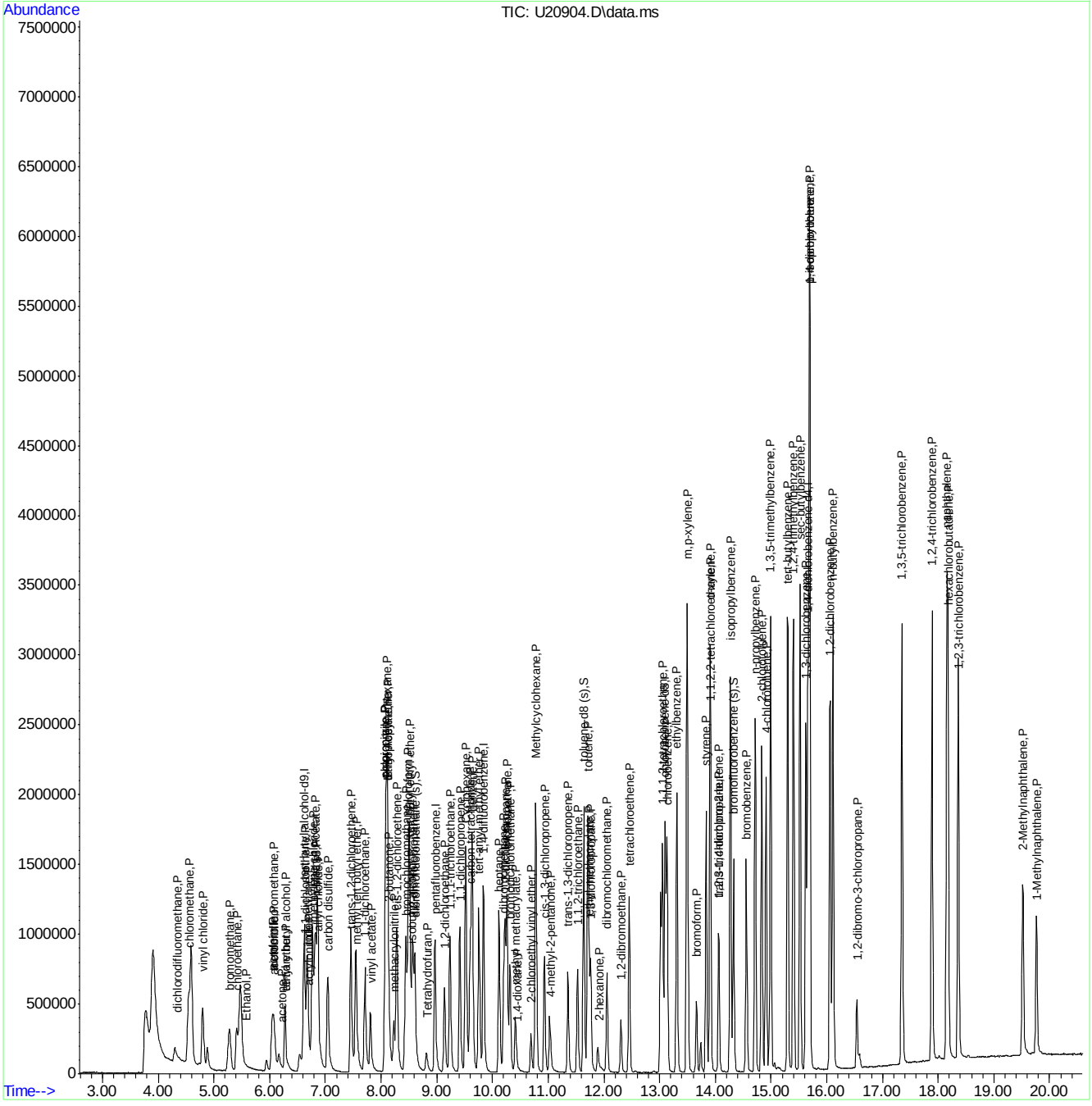
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
93)	1,3-dichlorobenzene	15.624	146	1147179	51.29	ppb		98
94)	p-isopropyltoluene	15.695	119	2309656	53.85	ppb		94
95)	1,4-dichlorobenzene	15.692	146	1140640	48.54	ppb		99
96)	1,2-dichlorobenzene	16.060	146	1281464	52.81	ppb		97
97)	n-butylbenzene	16.114	91	1979015	52.95	ppb		83
98)	1,2-dibromo-3-chloropr...	16.543	75	122701	49.32	ppb	#	65
99)	1,3,5-trichlorobenzene	17.352	180	1117127	59.36	ug/L		95
100)	1,2,4-trichlorobenzene	17.892	180	1130340	63.71	ppb		92
101)	hexachlorobutadiene	18.181	225	519912	63.48	ppb		95
102)	naphthalene	18.158	128	2761718	60.43	ppb		100
103)	2-Methylnaphthalene	19.525	142	794004	35.84	ug/L		99
104)	1-Methylnaphthalene	19.772	142	662503	36.43	ug/L		98
105)	1,2,3-trichlorobenzene	18.365	180	1027451	63.52	ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140707\
Data File : U20904.D
Acq On : 7 Jul 2014 10:12 am
Operator : GaryK
Sample : bs
Misc : ms32230,msu936,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 07 13:12:33 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Tomasz Torski
07/08/14 15:47

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20932.D
Acq On : 8 Jul 2014 8:51 am
Operator : GaryK
Sample : bs
Misc : ms32230,msu937,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 08 10:11:35 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.606	65	360710	50.00	ppb		0.00
4) pentafluorobenzene	8.974	168	854981	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.843	114	1434160	50.00	ppb		0.00
66) chlorobenzene-d5	13.097	82	616591	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.663	152	879835	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.613	113	558837	60.39	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	120.78%			
60) toluene-d8 (s)	11.639	98	1517264	55.46	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	110.92%			
82) bromofluorobenzene (s)	14.328	95	593376	53.24	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	106.48%			
Target Compounds							Qvalue
2) tertiary butyl alcohol	6.290	59	414976	543.00	ppb		91
3) Ethanol	5.569	45	638195	5727.32	ppb		96
5) dichlorodifluoromethane	4.356	85	308690	35.71	ppb		93
6) chloromethane	4.554	50	1113534	48.91	ppb		99
7) vinyl chloride	4.810	62	700394	43.13	ppb		95
8) bromomethane	5.283	96	435132	50.63	ppb		94
9) chloroethane	5.422	64	354336	47.85	ppb		100
10) ethyl ether	6.290	59	416111	48.09	ppb		89
11) acetonitrile	6.070	41	67429m	45.64	ppb		
12) trichlorofluoromethane	6.067	101	879985	49.35	ppb		100
13) freon-113	6.833	101	581269	51.49	ppb		90
14) acrolein	6.057	56	71308	46.59	ppb		92
15) 1,1-dichloroethene	6.633	96	459249	47.48	ppb		97
16) acetone	6.217	58	58989	24.45	ppb	#	73
17) Methyl Acetate	6.821	43	452270	49.69	ppb	#	80
18) methylene chloride	6.781	84	471546	45.07	ppb	#	75
19) methyl tert butyl ether	7.563	73	1035192	40.68	ppb		88
20) acrylonitrile	6.692	53	195220	41.83	ppb		98
21) allyl chloride	6.873	41	1073878	50.56	ppb		91
22) trans-1,2-dichloroethene	7.466	96	505926	45.52	ppb		95
23) iodomethane	6.689	142	851180	43.73	ppb		92
24) carbon disulfide	7.053	76	1257279	43.83	ppb		98
25) propionitrile	8.082	54	54064	58.43	ppb		100
26) vinyl acetate	7.820	43	944164	62.83	ppb		96
27) chloroprene	8.083	53	1004075	59.14	ppb		92
28) di-isopropyl ether	8.123	45	2032620	49.88	ppb		97
29) methacrylonitrile	8.239	41	291101	48.00	ppb		93
30) 2-butanone	8.133	72	34812	27.33	ppb	#	1
31) Ethyl Acetate	8.116	43	1648847	46.46	ug/L		93
32) Hexane	8.105	41	870192	50.25	ppb	#	79
33) 1,1-dichloroethane	7.719	63	1000019	49.51	ppb		100
34) tert-butyl ethyl ether	8.519	59	1506221	42.16	ppb		99
35) isobutyl alcohol	8.541	43	302584	232.45	ppb	#	12
36) 2,2-dichloropropane	8.576	77	604235	49.51	ppb		91

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20932.D
Acq On : 8 Jul 2014 8:51 am
Operator : GaryK
Sample : bs
Misc : ms32230,msu937,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 08 10:11:35 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) cis-1,2-dichloroethene	8.289	96	542933	46.23	ppb		97
38) bromochloromethane	8.455	128	298667	49.88	ppb	#	83
39) chloroform	8.492	83	828562	47.81	ppb		99
41) Tetrahydrofuran	8.839	42	158744	46.83	ppb		83
42) 1,1,1-trichloroethane	9.241	97	804377	50.49	ppb		98
44) Cyclohexane	9.526	56	1091721	51.21	ppb		88
45) carbon tetrachloride	9.605	117	785748	54.41	ppb		99
46) 1,1-dichloropropene	9.417	75	550679	48.87	ppb		90
47) benzene	9.641	78	1508096	45.38	ppb		95
48) 1,2-dichloroethane	9.142	62	638686	48.79	ppb		99
49) tert-amyl methyl ether	9.764	73	999899	40.72	ppb		90
50) heptane	10.121	43	780492	56.16	ppb	#	63
51) trichloroethene	10.261	95	451776	45.02	ppb		71
52) 1,2-dichloropropane	10.228	63	461724	47.74	ppb		99
53) dibromomethane	10.203	93	269872	48.89	ppb		89
54) bromodichloromethane	10.316	83	579311	51.60	ppb		95
55) Methylcyclohexane	10.779	83	769009	51.11	ppb		84
56) 2-chloroethyl vinyl ether	10.700	63	183631	42.96	ppb		94
57) methyl methacrylate	10.421	69	163389	45.62	ppb	#	78
58) 1,4-dioxane	10.452	88	18294	298.22	ppb		72
59) cis-1,3-dichloropropene	10.936	75	548225	48.48	ppb		89
61) 4-methyl-2-pentanone	11.044	43	468532	48.16	ppb		93
62) toluene	11.712	92	871205	48.56	ppb		99
63) trans-1,3-dichloropropene	11.357	75	462268	52.92	ppb		95
64) 1,1,2-trichloroethane	11.529	83	248682	47.18	ppb		96
65) ethyl methacrylate	11.741	69	318574	43.13	ppb	#	61
67) tetrachloroethene	12.455	166	450737	52.87	ppb		96
68) 1,3-dichloropropane	11.764	76	436774	47.54	ppb		91
69) dibromochloromethane	12.055	129	498179	54.28	ppb		98
70) 1,2-dibromoethane	12.307	107	343673	49.10	ppb		94
71) 2-hexanone	11.922	43	262297	34.54	ppb		99
72) chlorobenzene	13.135	112	1117604	49.77	ppb		86
73) 1,1,1,2-tetrachloroethane	13.054	131	595503	53.70	ppb		98
74) ethylbenzene	13.310	91	1750971	49.54	ppb		91
75) m,p-xylene	13.494	106	1453177	97.88	ppb		86
76) o-xylene	13.907	106	827021	49.67	ppb		85
77) styrene	13.835	104	1110938	48.15	ppb		98
78) bromoform	13.662	173	314885	49.39	ppb		100
79) trans-1,4-dichloro-2-b...	14.063	53	92566	30.76	ppb	#	53
81) isopropylbenzene	14.271	105	2348063	55.08	ppb		97
83) bromobenzene	14.559	156	573257	50.55	ppb	#	77
84) 1,1,2,2-tetrachloroethane	13.913	83	484035	56.00	ppb		98
85) 1,2,3-trichloropropane	14.062	75	415877	41.37	ppb		97
86) n-propylbenzene	14.716	91	2306762	49.88	ppb		90
87) 2-chlorotoluene	14.834	91	1497332	50.74	ppb		82
88) 4-chlorotoluene	14.910	91	1444117	48.70	ppb		85
89) 1,3,5-trimethylbenzene	14.994	105	2175953	51.86	ppb		94
90) tert-butylbenzene	15.299	91	1228813	53.73	ppb		82
91) 1,2,4-trimethylbenzene	15.402	105	2160042	50.83	ppb		96
92) sec-butylbenzene	15.522	105	2945646	55.32	ppb		91

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20932.D
Acq On : 8 Jul 2014 8:51 am
Operator : GaryK
Sample : bs
Misc : ms32230,msu937,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 08 10:11:35 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

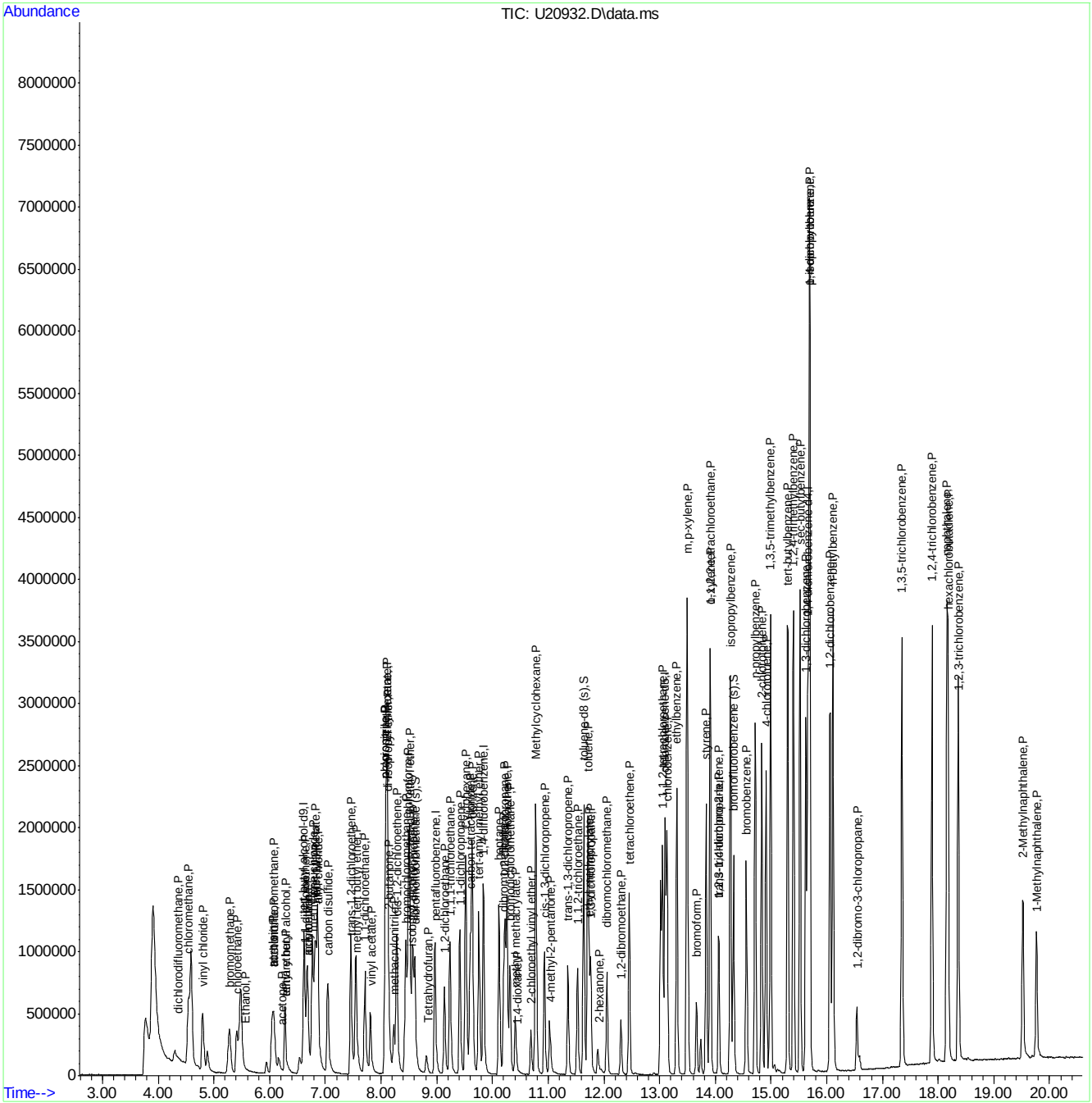
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
93)	1,3-dichlorobenzene	15.624	146	1313156	52.49	ppb		98
94)	p-isopropyltoluene	15.695	119	2590940	54.00	ppb		95
95)	1,4-dichlorobenzene	15.692	146	1297584	49.37	ppb		100
96)	1,2-dichlorobenzene	16.060	146	1430968	52.73	ppb		96
97)	n-butylbenzene	16.113	91	2242234	53.64	ppb		85
98)	1,2-dibromo-3-chloropr...	16.549	75	133870	48.11	ppb	#	63
99)	1,3,5-trichlorobenzene	17.352	180	1244757	59.13	ug/L		95
100)	1,2,4-trichlorobenzene	17.891	180	1230403	62.00	ppb		94
101)	hexachlorobutadiene	18.180	225	583206	63.67	ppb		95
102)	naphthalene	18.157	128	2955866	57.83	ppb		100
103)	2-Methylnaphthalene	19.525	142	846133	34.14	ug/L		98
104)	1-Methylnaphthalene	19.775	142	708745	34.85	ug/L		96
105)	1,2,3-trichlorobenzene	18.365	180	1128974	62.40	ppb		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20932.D
Acq On : 8 Jul 2014 8:51 am
Operator : GaryK
Sample : bs
Misc : ms32230,msu937,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 08 10:11:35 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Tomasz Torski
07/07/14 14:02

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20850.D
Acq On : 3 Jul 2014 6:51 pm
Operator : GaryK
Sample : mc31799-4ms
Misc : ms32217,msu934,,,,5,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 05 09:26:35 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.620	65	138401	50.00	ppb		0.02
4) pentafluorobenzene	8.975	168	300066	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.843	114	505816	50.00	ppb		0.00
66) chlorobenzene-d5	13.097	82	210744	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.663	152	319860	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.613	113	205493	63.28	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 126.56%				
60) toluene-d8 (s)	11.639	98	521111	54.01	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 108.02%				
82) bromofluorobenzene (s)	14.327	95	204380	50.44	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.88%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	6.290	59	155673	530.90	ppb		95
3) Ethanol	5.590	45	175300	4060.19	ppb		96
5) dichlorodifluoromethane	4.350	85	121024	39.90	ppb		100
6) chloromethane	4.553	50	420983	52.69	ppb		97
7) vinyl chloride	4.805	62	281597	49.40	ppb		99
8) bromomethane	5.281	96	157554	52.23	ppb		92
9) chloroethane	5.420	64	132586	51.01	ppb		95
10) ethyl ether	6.290	59	155912	51.34	ppb		87
11) acetonitrile	6.070	41	21067m	40.63	ppb		
12) trichlorofluoromethane	6.066	101	303774	48.54	ppb		99
13) freon-113	6.833	101	217109	54.80	ppb		87
14) acrolein	6.037	56	1011	1.88	ppb		92
15) 1,1-dichloroethene	6.632	96	177848	52.39	ppb		94
16) acetone	6.214	58	22877	27.02	ppb		88
17) Methyl Acetate	6.828	43	169858	53.17	ppb	#	73
18) methylene chloride	6.780	84	190293	51.82	ppb	#	78
19) methyl tert butyl ether	7.565	73	365839	40.97	ppb		88
20) acrylonitrile	6.711	53	85392	52.13	ppb		98
21) allyl chloride	6.871	41	264750	35.52	ppb		88
22) trans-1,2-dichloroethene	7.466	96	196038	50.26	ppb		91
23) iodomethane	6.688	142	327940	48.01	ppb		94
24) carbon disulfide	7.055	76	417102	41.43	ppb		99
25) propionitrile	8.081	54	18814	57.94	ppb		100
26) vinyl acetate	7.821	43	312282	59.21	ppb		99
27) chloroprene	8.082	53	365093	61.27	ppb		90
28) di-isopropyl ether	8.122	45	773829	54.10	ppb		94
29) methacrylonitrile	8.242	41	113873	53.51	ppb		92
30) 2-butanone	8.134	72	14407	32.23	ppb	#	1
31) Ethyl Acetate	8.118	43	601289	48.28	ug/L		88
32) Hexane	8.106	41	298918	49.18	ppb	#	74
33) 1,1-dichloroethane	7.718	63	372956	52.61	ppb		99
34) tert-butyl ethyl ether	8.518	59	507699	40.49	ppb		98
35) isobutyl alcohol	8.544	43	108446	237.70	ppb	#	26
36) 2,2-dichloropropane	8.575	77	186564	43.56	ppb		89

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20850.D
Acq On : 3 Jul 2014 6:51 pm
Operator : GaryK
Sample : mc31799-4ms
Misc : ms32217,msu934,,,,5,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 05 09:26:35 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) cis-1,2-dichloroethene	8.289	96	224292	54.42	ppb		97
38) bromochloromethane	8.454	128	115405	54.92	ppb		89
39) chloroform	8.491	83	308839	50.78	ppb		97
41) Tetrahydrofuran	8.839	42	63648	53.50	ppb		86
42) 1,1,1-trichloroethane	9.242	97	294588	52.69	ppb		98
44) Cyclohexane	9.525	56	386159	51.36	ppb		88
45) carbon tetrachloride	9.605	117	251279	49.33	ppb		99
46) 1,1-dichloropropene	9.417	75	198450	49.93	ppb		89
47) benzene	9.641	78	561489	47.91	ppb		94
48) 1,2-dichloroethane	9.142	62	233072	50.49	ppb		99
49) tert-amyl methyl ether	9.764	73	336092	38.81	ppb		88
50) heptane	10.122	43	238220	48.60	ppb	#	62
51) trichloroethene	10.261	95	164174	46.39	ppb		72
52) 1,2-dichloropropane	10.228	63	165578	48.54	ppb		99
53) dibromomethane	10.203	93	100730	51.75	ppb		91
54) bromodichloromethane	10.316	83	192871	48.71	ppb		97
55) Methylcyclohexane	10.779	83	271700	51.20	ppb		86
57) methyl methacrylate	10.422	69	55405	43.86	ppb	#	67
58) 1,4-dioxane	10.447	88	3543	170.17	ppb		81
59) cis-1,3-dichloropropene	10.936	75	139409	34.95	ppb		92
61) 4-methyl-2-pentanone	11.046	43	178536	52.04	ppb		93
62) toluene	11.712	92	298445	47.17	ppb		98
63) trans-1,3-dichloropropene	11.358	75	108131	35.10	ppb		94
64) 1,1,2-trichloroethane	11.530	83	86264	46.40	ppb		91
65) ethyl methacrylate	11.740	69	108309	41.58	ppb	#	72
67) tetrachloroethene	12.454	166	149297	51.23	ppb		96
68) 1,3-dichloropropane	11.765	76	146319	46.59	ppb		92
69) dibromochloromethane	12.055	129	146648	46.75	ppb		98
70) 1,2-dibromoethane	12.307	107	117445	49.09	ppb		99
71) 2-hexanone	11.929	43	98075	37.78	ppb		97
72) chlorobenzene	13.134	112	386626	50.38	ppb		85
73) 1,1,1,2-tetrachloroethane	13.053	131	206307	54.43	ppb		97
74) ethylbenzene	13.310	91	596685	49.39	ppb		92
75) m,p-xylene	13.494	106	503965	99.31	ppb		86
76) o-xylene	13.907	106	293857	51.64	ppb		86
77) styrene	13.835	104	369327	46.84	ppb		97
78) bromoform	13.661	173	83486	38.31	ppb		96
79) trans-1,4-dichloro-2-b...	13.905	53	17642	17.15	ppb	#	1
81) isopropylbenzene	14.271	105	813730	52.51	ppb		95
83) bromobenzene	14.559	156	200847	48.72	ppb	#	76
84) 1,1,2,2-tetrachloroethane	13.913	83	180110	57.31	ppb		98
85) 1,2,3-trichloropropane	14.062	75	121396	33.22	ppb		99
86) n-propylbenzene	14.716	91	794782	47.27	ppb		92
87) 2-chlorotoluene	14.834	91	520595	48.52	ppb		81
88) 4-chlorotoluene	14.910	91	499792	46.36	ppb		83
89) 1,3,5-trimethylbenzene	14.993	105	749365	49.13	ppb		94
90) tert-butylbenzene	15.298	91	420520	50.58	ppb		83
91) 1,2,4-trimethylbenzene	15.402	105	745018	48.22	ppb		97
92) sec-butylbenzene	15.521	105	987941	51.04	ppb		92
93) 1,3-dichlorobenzene	15.624	146	452219	49.72	ppb		98

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20850.D
Acq On : 3 Jul 2014 6:51 pm
Operator : GaryK
Sample : mc31799-4ms
Misc : ms32217,msu934,,,,5,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 05 09:26:35 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

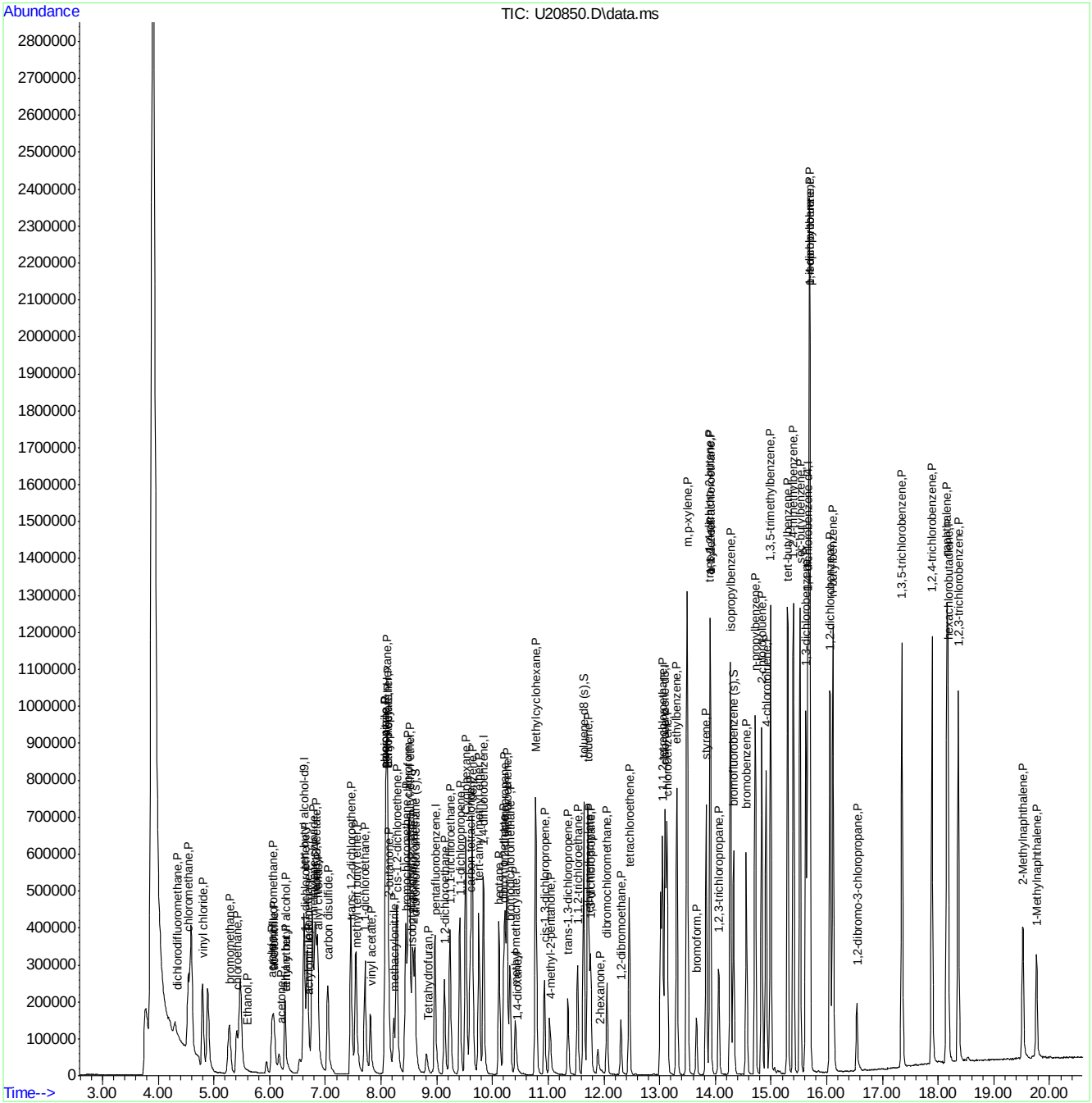
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
94)	p-isopropyltoluene	15.694	119	864985	49.59	ppb		95
95)	1,4-dichlorobenzene	15.691	146	453135	47.43	ppb		99
96)	1,2-dichlorobenzene	16.060	146	509905	51.68	ppb		96
97)	n-butylbenzene	16.114	91	736107	48.44	ppb		85
98)	1,2-dibromo-3-chloropr...	16.544	75	45959	45.43	ppb	#	65
99)	1,3,5-trichlorobenzene	17.353	180	408477	53.37	ug/L		97
100)	1,2,4-trichlorobenzene	17.891	180	404889	56.12	ppb		94
101)	hexachlorobutadiene	18.180	225	183871	55.22	ppb		98
102)	naphthalene	18.157	128	1009191	54.31	ppb		100
103)	2-Methylnaphthalene	19.526	142	239382	26.57	ug/L		98
104)	1-Methylnaphthalene	19.770	142	188395	25.48	ug/L		98
105)	1,2,3-trichlorobenzene	18.364	180	364957	55.49	ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20850.D
Acq On : 3 Jul 2014 6:51 pm
Operator : GaryK
Sample : mc31799-4ms
Misc : ms32217,msu934,,,,5,1
ALS Vial : 25 Sample Multiplier: 1

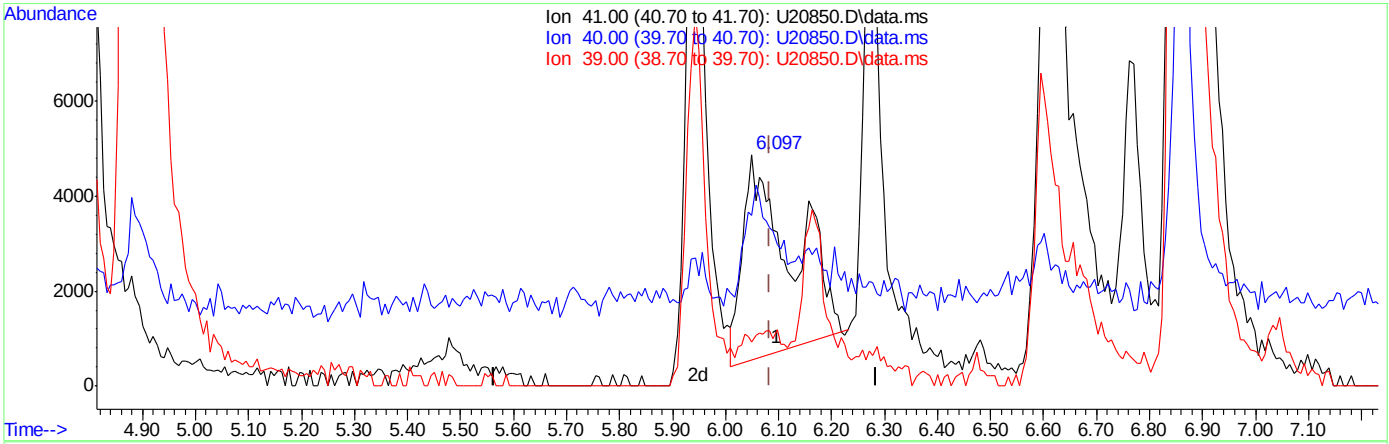
Quant Time: Jul 05 09:26:35 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

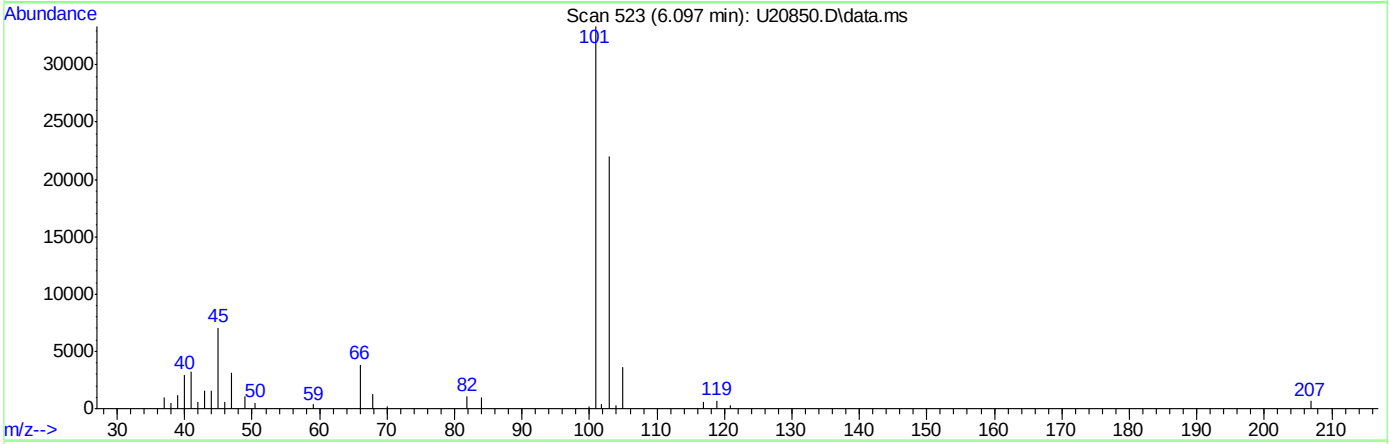


Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20850.D
Acq On : 3 Jul 2014 6:51 pm
Operator : GaryK
Sample : mc31799-4ms
Misc : ms32217,msu934,,,,5,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 05 09:25:28 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration





TIC: U20850.D\data.ms

(11) acetonitrile (P)

6.097min (+0.013) 51.99ppb

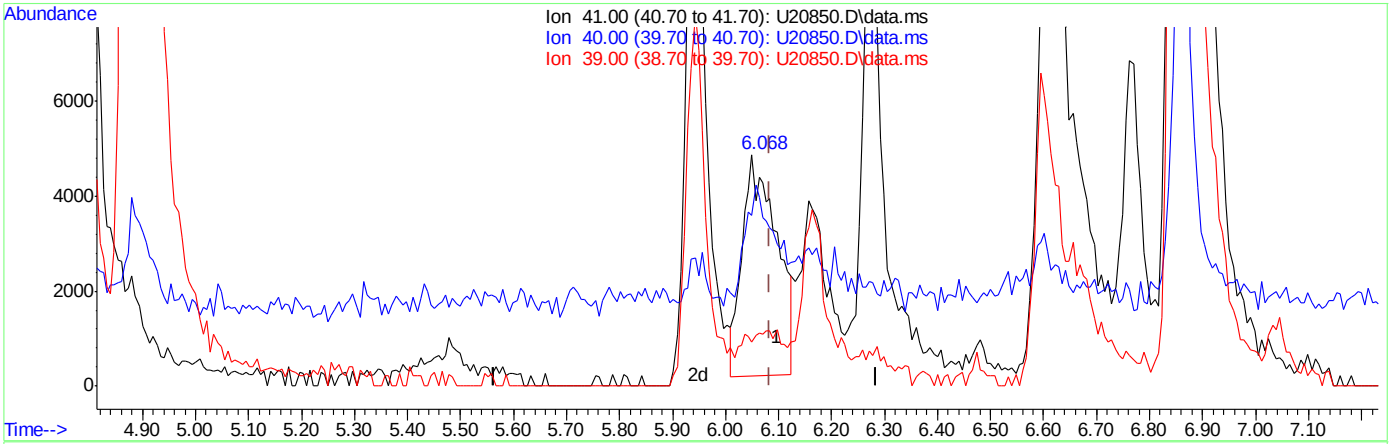
response 26956

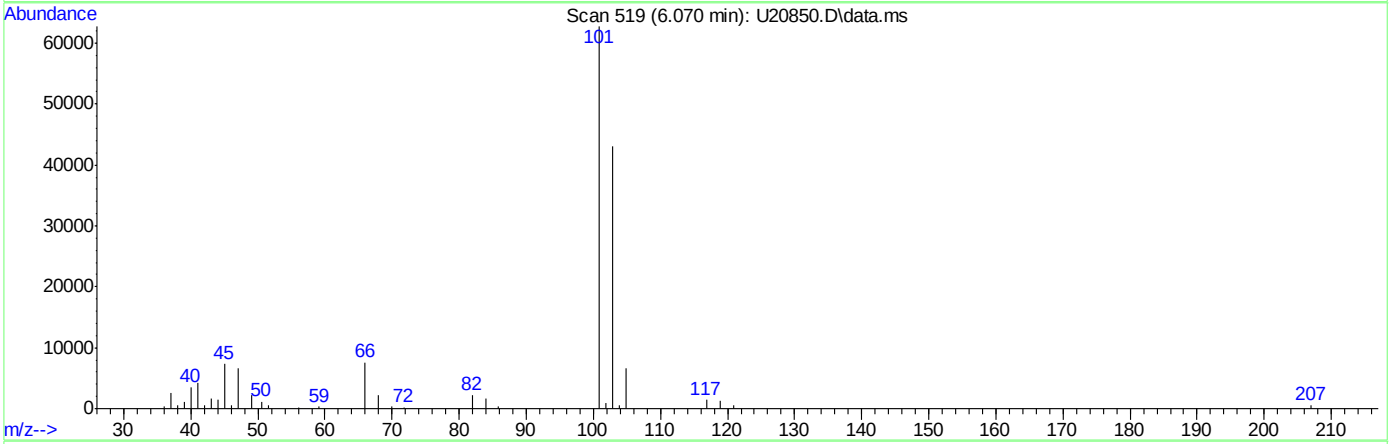
Ion	Exp%	Act%
41.00	100	100
40.00	92.30	48.20#
39.00	24.50	27.57
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20850.D
Acq On : 3 Jul 2014 6:51 pm
Operator : GaryK
Sample : mc31799-4ms
Misc : ms32217,msu934,,,,5,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 05 09:25:28 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration





TIC: U20850.D\data.ms

(11) acetonitrile (P)

6.070min (-0.014) 40.63ppb m

response 21067

Ion	Exp%	Act%
41.00	100	100
40.00	92.30	82.79
39.00	24.50	25.57
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Tomasz Torski
07/07/14 14:02

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20851.D
Acq On : 3 Jul 2014 7:18 pm
Operator : GaryK
Sample : mc31799-4msd
Misc : ms32217,msu934,,,,5,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 05 09:27:48 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.608	65	136651	50.00	ppb		0.01
4) pentafluorobenzene	8.974	168	319534	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.842	114	537218	50.00	ppb		0.00
66) chlorobenzene-d5	13.099	82	211368	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.662	152	332326	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.612	113	211512	61.16	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 122.32%				
60) toluene-d8 (s)	11.639	98	556122	54.27	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 108.54%				
82) bromofluorobenzene (s)	14.327	95	215047	51.08	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.16%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	6.288	59	161200	556.79	ppb		92
3) Ethanol	5.576	45	234029	5539.37	ppb		97
5) dichlorodifluoromethane	4.348	85	128750	39.86	ppb		89
6) chloromethane	4.552	50	441360	51.87	ppb		99
7) vinyl chloride	4.805	62	294469	48.52	ppb		98
8) bromomethane	5.282	96	164918	51.34	ppb		95
9) chloroethane	5.421	64	138077	49.89	ppb		96
10) ethyl ether	6.288	59	161200	49.85	ppb		86
11) acetonitrile	6.070	41	26226m	47.50	ppb		
12) trichlorofluoromethane	6.066	101	317371	47.62	ppb		96
13) freon-113	6.832	101	219479	52.02	ppb		87
14) acrolein	6.052	56	1746	3.05	ppb		92
15) 1,1-dichloroethene	6.630	96	181060	50.09	ppb		94
16) acetone	6.209	58	23066	25.59	ppb		99
17) Methyl Acetate	6.822	43	160995	47.32	ppb	#	78
18) methylene chloride	6.778	84	193080	49.38	ppb	#	79
19) methyl tert butyl ether	7.563	73	379345	39.89	ppb		86
20) acrylonitrile	6.705	53	82087	47.06	ppb		94
21) allyl chloride	6.869	41	278683	35.11	ppb		92
22) trans-1,2-dichloroethene	7.466	96	202519	48.76	ppb		94
23) iodomethane	6.687	142	341254	46.91	ppb		97
24) carbon disulfide	7.053	76	434951	40.57	ppb		98
25) propionitrile	8.080	54	20352	58.85	ppb		100
26) vinyl acetate	7.821	43	314177	55.94	ppb		97
27) chloroprene	8.081	53	381057	60.06	ppb		92
28) di-isopropyl ether	8.122	45	796074	52.27	ppb		98
29) methacrylonitrile	8.238	41	109229	48.20	ppb		90
30) 2-butanone	8.131	72	13753	28.89	ppb	#	1
31) Ethyl Acetate	8.117	43	619042	46.67	ug/L		88
32) Hexane	8.105	41	309932	47.88	ppb	#	75
33) 1,1-dichloroethane	7.717	63	387360	51.32	ppb		98
34) tert-butyl ethyl ether	8.517	59	523727	39.23	ppb		99
35) isobutyl alcohol	8.541	43	110211	226.14	ppb	#	14
36) 2,2-dichloropropane	8.574	77	193992	42.53	ppb		94

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20851.D
Acq On : 3 Jul 2014 7:18 pm
Operator : GaryK
Sample : mc31799-4msd
Misc : ms32217,msu934,,,,5,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 05 09:27:48 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	cis-1,2-dichloroethene	8.287	96	232396	52.95	ppb		91
38)	bromochloromethane	8.452	128	115737	51.72	ppb		91
39)	chloroform	8.491	83	318183	49.13	ppb		100
41)	Tetrahydrofuran	8.828	42	58315	46.03	ppb		89
42)	1,1,1-trichloroethane	9.240	97	300709	50.51	ppb		97
44)	Cyclohexane	9.525	56	400900	50.20	ppb		88
45)	carbon tetrachloride	9.604	117	266487	49.26	ppb		99
46)	1,1-dichloropropene	9.416	75	212194	50.27	ppb		90
47)	benzene	9.640	78	593482	47.68	ppb		95
48)	1,2-dichloroethane	9.141	62	235519	48.03	ppb		98
49)	tert-amyl methyl ether	9.763	73	350918	38.15	ppb		87
50)	heptane	10.121	43	254202	48.83	ppb	#	62
51)	trichloroethene	10.261	95	174277	46.37	ppb		72
52)	1,2-dichloropropane	10.228	63	175503	48.44	ppb		100
53)	dibromomethane	10.203	93	102714	49.68	ppb		92
54)	bromodichloromethane	10.315	83	208986	49.69	ppb		96
55)	Methylcyclohexane	10.778	83	275665	48.91	ppb		89
57)	methyl methacrylate	10.421	69	58571	43.66	ppb		79
58)	1,4-dioxane	10.446	88	5353	236.07	ppb		99
59)	cis-1,3-dichloropropene	10.936	75	156721	37.00	ppb		90
61)	4-methyl-2-pentanone	11.044	43	180246	49.47	ppb		92
62)	toluene	11.711	92	319629	47.56	ppb		100
63)	trans-1,3-dichloropropene	11.357	75	116513	35.61	ppb		99
64)	1,1,2-trichloroethane	11.529	83	90618	45.90	ppb		92
65)	ethyl methacrylate	11.738	69	113671	41.08	ppb	#	68
67)	tetrachloroethene	12.454	166	161687	55.32	ppb		95
68)	1,3-dichloropropane	11.764	76	153109	48.61	ppb		92
69)	dibromochloromethane	12.054	129	155818	49.53	ppb		100
70)	1,2-dibromoethane	12.306	107	121856	50.78	ppb		94
71)	2-hexanone	11.929	43	97358	37.40	ppb		98
72)	chlorobenzene	13.134	112	406536	52.82	ppb		85
73)	1,1,1,2-tetrachloroethane	13.053	131	216114	56.85	ppb		96
74)	ethylbenzene	13.309	91	636564	52.54	ppb		92
75)	m,p-xylene	13.493	106	527239	103.59	ppb		86
76)	o-xylene	13.906	106	306609	53.72	ppb		85
77)	styrene	13.834	104	393760	49.79	ppb		96
78)	bromoform	13.661	173	87488	40.03	ppb		98
79)	trans-1,4-dichloro-2-b...	14.067	53	1253	1.21	ppb	#	1
81)	isopropylbenzene	14.270	105	847421	52.63	ppb		94
83)	bromobenzene	14.558	156	207395	48.42	ppb	#	78
84)	1,1,2,2-tetrachloroethane	13.912	83	180169	55.18	ppb		99
85)	1,2,3-trichloropropane	14.061	75	124813	32.87	ppb		99
86)	n-propylbenzene	14.715	91	814183	46.61	ppb		90
87)	2-chlorotoluene	14.833	91	545066	48.90	ppb		81
88)	4-chlorotoluene	14.910	91	519603	46.39	ppb		82
89)	1,3,5-trimethylbenzene	14.993	105	778121	49.10	ppb		95
90)	tert-butylbenzene	15.297	91	439425	50.87	ppb		89
91)	1,2,4-trimethylbenzene	15.402	105	767268	47.80	ppb		98
92)	sec-butylbenzene	15.521	105	1026402	51.04	ppb		93
93)	1,3-dichlorobenzene	15.623	146	467794	49.50	ppb		97

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20851.D
Acq On : 3 Jul 2014 7:18 pm
Operator : GaryK
Sample : mc31799-4msd
Misc : ms32217,msu934,,,,5,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 05 09:27:48 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

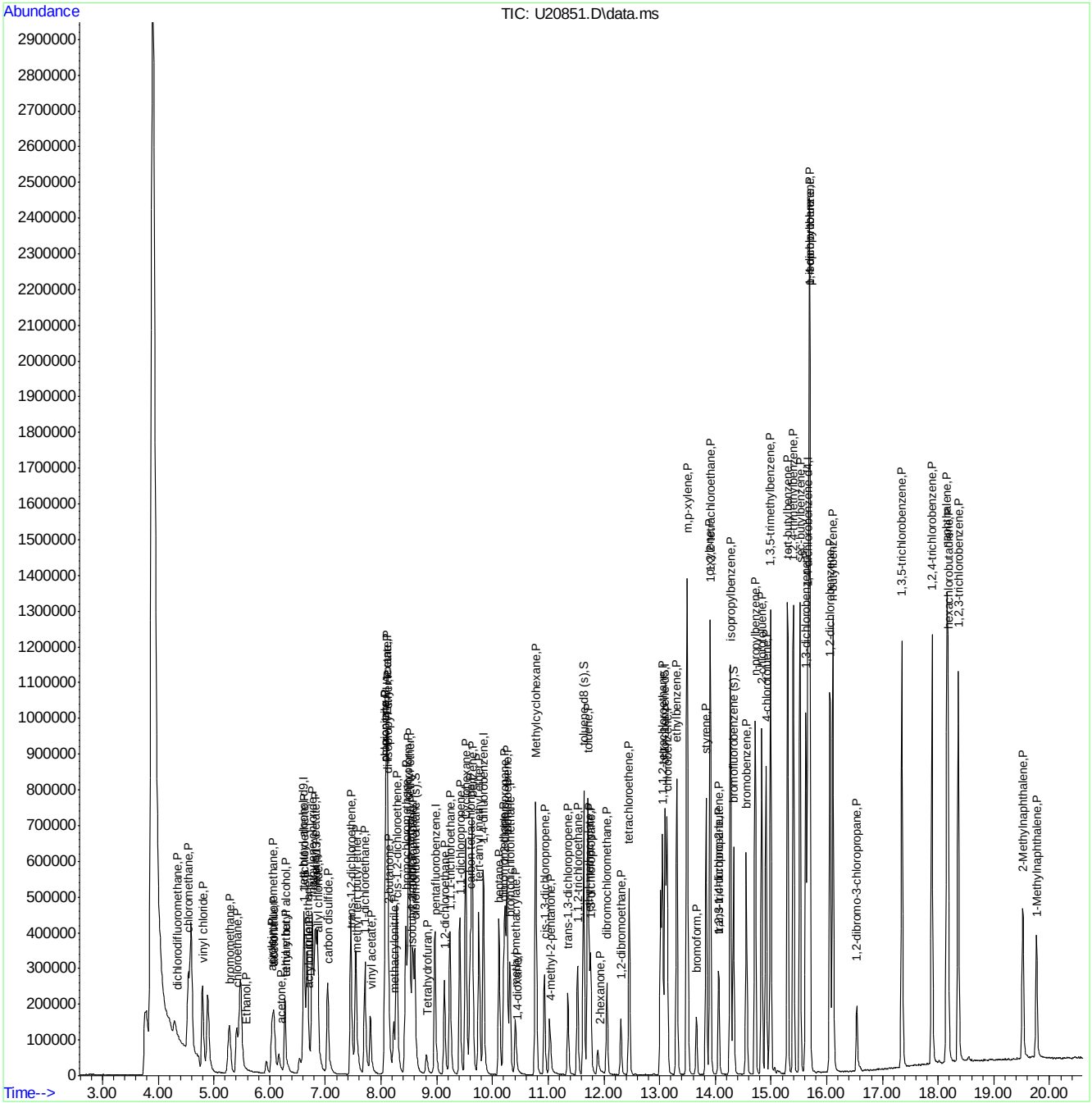
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
94) p-isopropyltoluene	15.694	119	893111	49.28	ppb		94
95) 1,4-dichlorobenzene	15.691	146	467509	47.10	ppb		99
96) 1,2-dichlorobenzene	16.059	146	522987	51.02	ppb		96
97) n-butylbenzene	16.113	91	760320	48.15	ppb		84
98) 1,2-dibromo-3-chloropr...	16.541	75	45559	43.35	ppb	#	73
99) 1,3,5-trichlorobenzene	17.352	180	430474	54.14	ug/L		94
100) 1,2,4-trichlorobenzene	17.890	180	423958	56.56	ppb		96
101) hexachlorobutadiene	18.180	225	195423	56.48	ppb		95
102) naphthalene	18.157	128	1058648	54.83	ppb		100
103) 2-Methylnaphthalene	19.526	142	275670	29.45	ug/L		99
104) 1-Methylnaphthalene	19.771	142	228483	29.74	ug/L		99
105) 1,2,3-trichlorobenzene	18.364	180	392312	57.41	ppb		91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20851.D
Acq On : 3 Jul 2014 7:18 pm
Operator : GaryK
Sample : mc31799-4msd
Misc : ms32217,msu934,,,,5,1
ALS Vial : 26 Sample Multiplier: 1

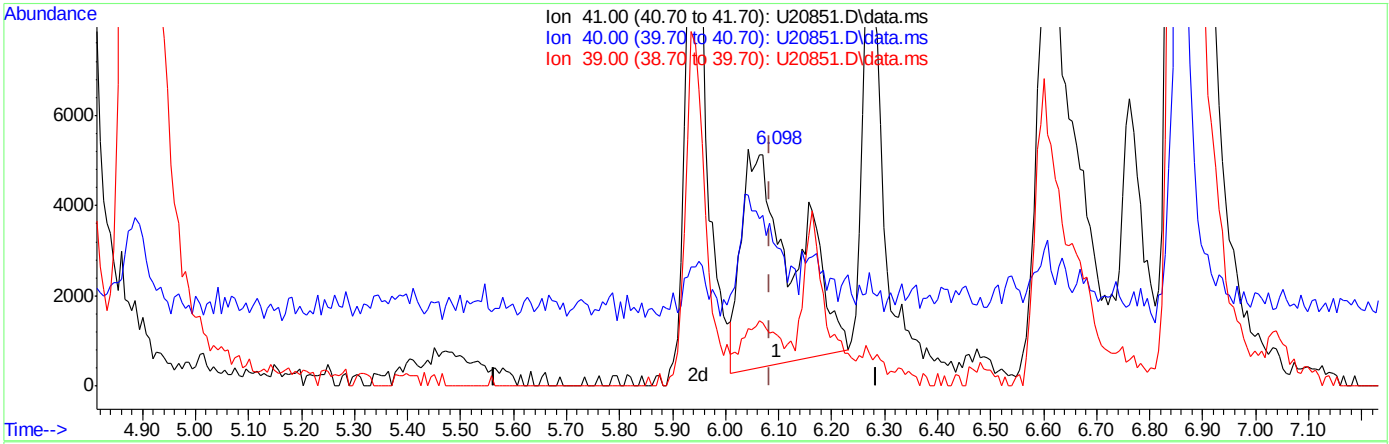
Quant Time: Jul 05 09:27:48 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

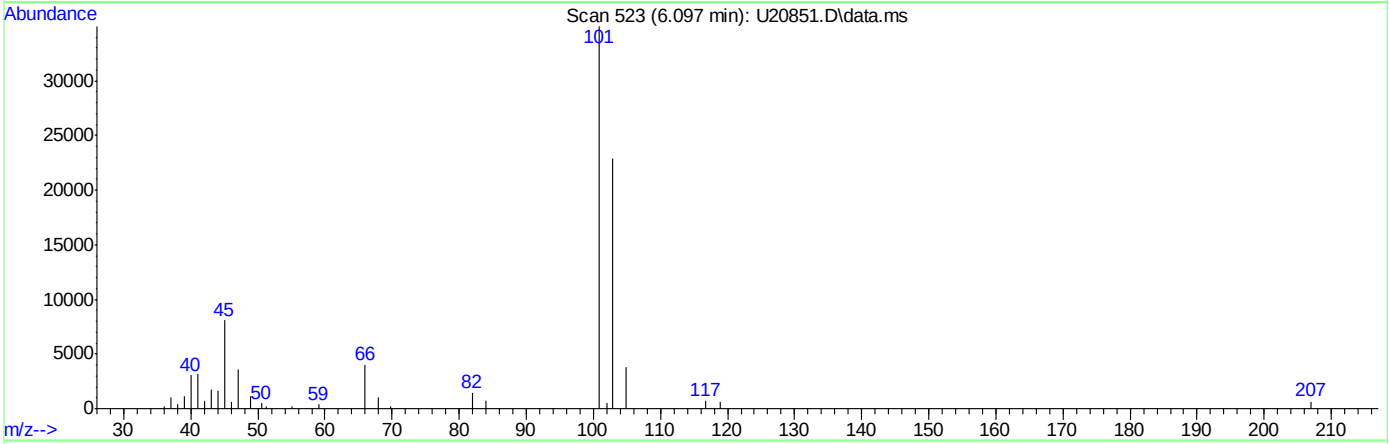


Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20851.D
Acq On : 3 Jul 2014 7:18 pm
Operator : GaryK
Sample : mc31799-4msd
Misc : ms32217,msu934,,,,5,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 05 09:27:07 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration





TIC: U20851.D\data.ms

(11) acetonitrile (P)

6.098min (+0.014) 60.50ppb

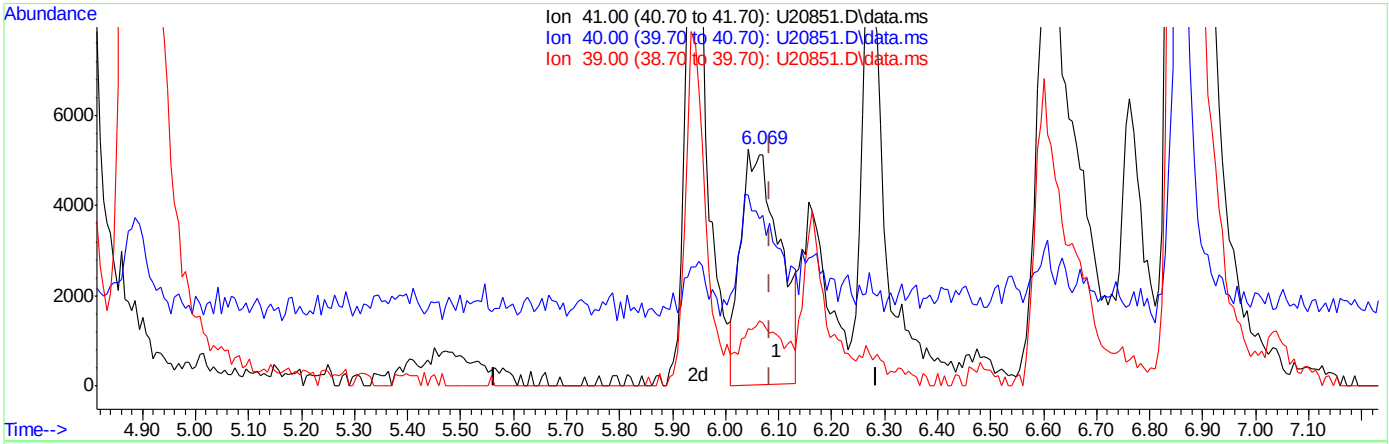
response 33406

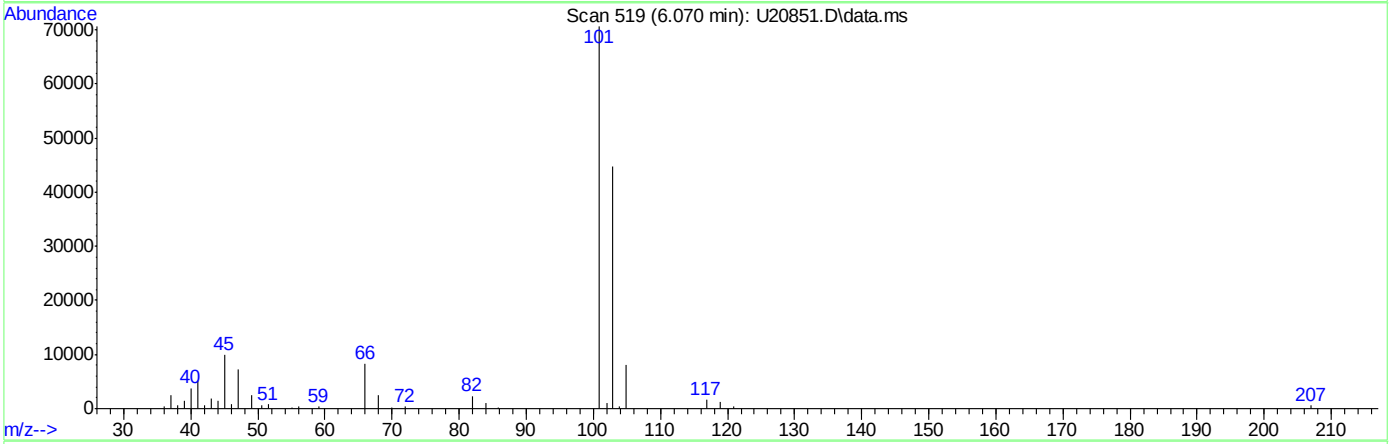
Ion	Exp%	Act%
41.00	100	100
40.00	92.30	44.83#
39.00	24.50	17.44
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20851.D
Acq On : 3 Jul 2014 7:18 pm
Operator : GaryK
Sample : mc31799-4msd
Misc : ms32217,msu934,,,,5,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 05 09:27:07 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration





TIC: U20851.D\data.ms

(11) acetonitrile (P)

6.070min (-0.014) 47.50ppb m

response 26226

Ion	Exp%	Act%
41.00	100	100
40.00	92.30	73.86
39.00	24.50	27.50
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140707\
Data File : U20924.D
Acq On : 7 Jul 2014 7:17 pm
Operator : GaryK
Sample : mc31807-1ms
Misc : ms32235,msu936,,,,5,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 08 07:57:13 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.619	65	302143	50.00	ppb		0.02
4) pentafluorobenzene	8.975	168	705334	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.843	114	1146108	50.00	ppb		0.00
66) chlorobenzene-d5	13.097	82	476718	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.663	152	706242	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.614	113	454760	59.57	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 119.14%				
60) toluene-d8 (s)	11.640	98	1156990	52.92	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 105.84%				
82) bromofluorobenzene (s)	14.328	95	461425	51.58	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.16%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	6.289	59	326273	509.69	ppb		87
3) Ethanol	5.573	45	396833	4215.36	ppb		95
5) dichlorodifluoromethane	4.353	85	258563	36.26	ppb		89
6) chloromethane	4.554	50	925878	49.30	ppb		98
7) vinyl chloride	4.808	62	574224	42.86	ppb		98
8) bromomethane	5.283	96	344577	48.60	ppb		92
9) chloroethane	5.422	64	283344	46.38	ppb		99
10) ethyl ether	6.289	59	326452	45.74	ppb		92
11) acetonitrile	6.099	41	52052	42.71	ppb	#	70
12) trichlorofluoromethane	6.067	101	710353	48.29	ppb		99
13) freon-113	6.835	101	483929	51.96	ppb		88
14) acrolein	6.043	56	20372	16.13	ppb		92
15) 1,1-dichloroethene	6.632	96	381909	47.86	ppb		95
16) acetone	6.233	58	64700	32.51	ppb	#	65
17) Methyl Acetate	6.825	43	352205	46.90	ppb	#	79
18) methylene chloride	6.783	84	395598	45.83	ppb	#	72
19) methyl tert butyl ether	7.565	73	859808	40.96	ppb		91
20) acrylonitrile	6.713	53	167026	43.38	ppb		99
21) allyl chloride	6.875	41	724487	41.35	ppb		90
22) trans-1,2-dichloroethene	7.467	96	425742	46.44	ppb		95
23) iodomethane	6.690	142	725580	45.19	ppb		92
24) carbon disulfide	7.054	76	988041	41.75	ppb		96
25) propionitrile	8.083	54	44657	58.50	ppb		100
26) vinyl acetate	7.822	43	710556	57.31	ppb		95
27) chloroprene	8.084	53	848870	60.61	ppb		87
28) di-isopropyl ether	8.122	45	1713953	50.98	ppb		96
29) methacrylonitrile	8.239	41	225633	45.10	ppb		89
30) 2-butanone	8.132	72	31150	29.65	ppb	#	1
31) Ethyl Acetate	8.117	43	1380744	47.16	ug/L		92
32) Hexane	8.105	41	737253	51.60	ppb	#	74
33) 1,1-dichloroethane	7.719	63	833291	50.01	ppb		98
34) tert-butyl ethyl ether	8.519	59	1215628	41.25	ppb		98
35) isobutyl alcohol	8.541	43	255304	238.09	ppb		87
36) 2,2-dichloropropane	8.576	77	460728	45.76	ppb		91

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140707\
Data File : U20924.D
Acq On : 7 Jul 2014 7:17 pm
Operator : GaryK
Sample : mc31807-1ms
Misc : ms32235,msu936,,,,5,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 08 07:57:13 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	cis-1,2-dichloroethene	8.289	96	451791	46.63	ppb		94
38)	bromochloromethane	8.455	128	246233	49.85	ppb		89
39)	chloroform	8.492	83	698598	48.86	ppb		98
41)	Tetrahydrofuran	8.842	42	128185	45.84	ppb		81
42)	1,1,1-trichloroethane	9.243	97	681670	51.87	ppb		97
44)	Cyclohexane	9.526	56	880568	51.69	ppb		88
45)	carbon tetrachloride	9.605	117	641596	55.59	ppb		96
46)	1,1-dichloropropene	9.417	75	460162	51.10	ppb		90
47)	benzene	9.641	78	1269342	47.80	ppb		94
48)	1,2-dichloroethane	9.142	62	533455	51.00	ppb		99
49)	tert-amyl methyl ether	9.765	73	799417	40.74	ppb		83
50)	heptane	10.009	43	10430	0.94	ppb		55
51)	trichloroethene	10.262	95	380277	47.42	ppb		76
52)	1,2-dichloropropane	10.229	63	371095	48.01	ppb		99
53)	dibromomethane	10.203	93	213952	48.51	ppb		89
54)	bromodichloromethane	10.316	83	471807	52.59	ppb		98
55)	Methylcyclohexane	10.779	83	612687	50.96	ppb	#	82
56)	2-chloroethyl vinyl ether	10.772	63	9851	2.88	ppb	#	1
57)	methyl methacrylate	10.423	69	119730	41.83	ppb	#	74
58)	1,4-dioxane	10.456	88	9859	205.74	ppb	#	56
59)	cis-1,3-dichloropropene	10.937	75	372050	41.17	ppb		90
61)	4-methyl-2-pentanone	11.043	43	409526	52.68	ppb		92
62)	toluene	11.712	92	692260	48.29	ppb		95
63)	trans-1,3-dichloropropene	11.358	75	296627	42.50	ppb		91
64)	1,1,2-trichloroethane	11.530	83	189403	44.97	ppb		93
65)	ethyl methacrylate	11.740	69	242368	41.06	ppb	#	65
67)	tetrachloroethene	12.455	166	356508	54.08	ppb		96
68)	1,3-dichloropropane	11.765	76	328994	46.31	ppb		94
69)	dibromochloromethane	12.055	129	369914	52.13	ppb		100
70)	1,2-dibromoethane	12.308	107	262791	48.56	ppb		97
71)	2-hexanone	11.920	43	225623	38.42	ppb		100
72)	chlorobenzene	13.135	112	870390	50.14	ppb		86
73)	1,1,1,2-tetrachloroethane	13.054	131	485208	56.59	ppb		99
74)	ethylbenzene	13.310	91	1393936	51.01	ppb		92
75)	m,p-xylene	13.494	106	1167470	101.71	ppb		87
76)	o-xylene	13.907	106	675359	52.46	ppb		88
77)	styrene	13.835	104	804948	45.13	ppb		99
78)	bromoform	13.662	173	232750	47.21	ppb		99
79)	trans-1,4-dichloro-2-b...	14.064	53	28701	12.34	ppb	#	1
81)	isopropylbenzene	14.271	105	1889952	55.23	ppb		96
83)	bromobenzene	14.559	156	457620	50.27	ppb	#	76
84)	1,1,2,2-tetrachloroethane	13.913	83	398188	57.39	ppb		99
85)	1,2,3-trichloropropane	14.062	75	298035	36.94	ppb		100
86)	n-propylbenzene	14.716	91	1828037	49.24	ppb		91
87)	2-chlorotoluene	14.834	91	1187921	50.15	ppb		80
88)	4-chlorotoluene	14.910	91	1149071	48.28	ppb		84
89)	1,3,5-trimethylbenzene	14.993	105	1742797	51.75	ppb		94
90)	tert-butylbenzene	15.299	91	1010195	55.03	ppb		87
91)	1,2,4-trimethylbenzene	15.402	105	1747610	51.23	ppb		98
92)	sec-butylbenzene	15.522	105	2365580	55.35	ppb		92

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140707\
Data File : U20924.D
Acq On : 7 Jul 2014 7:17 pm
Operator : GaryK
Sample : mc31807-1ms
Misc : ms32235,msu936,,,,5,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 08 07:57:13 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

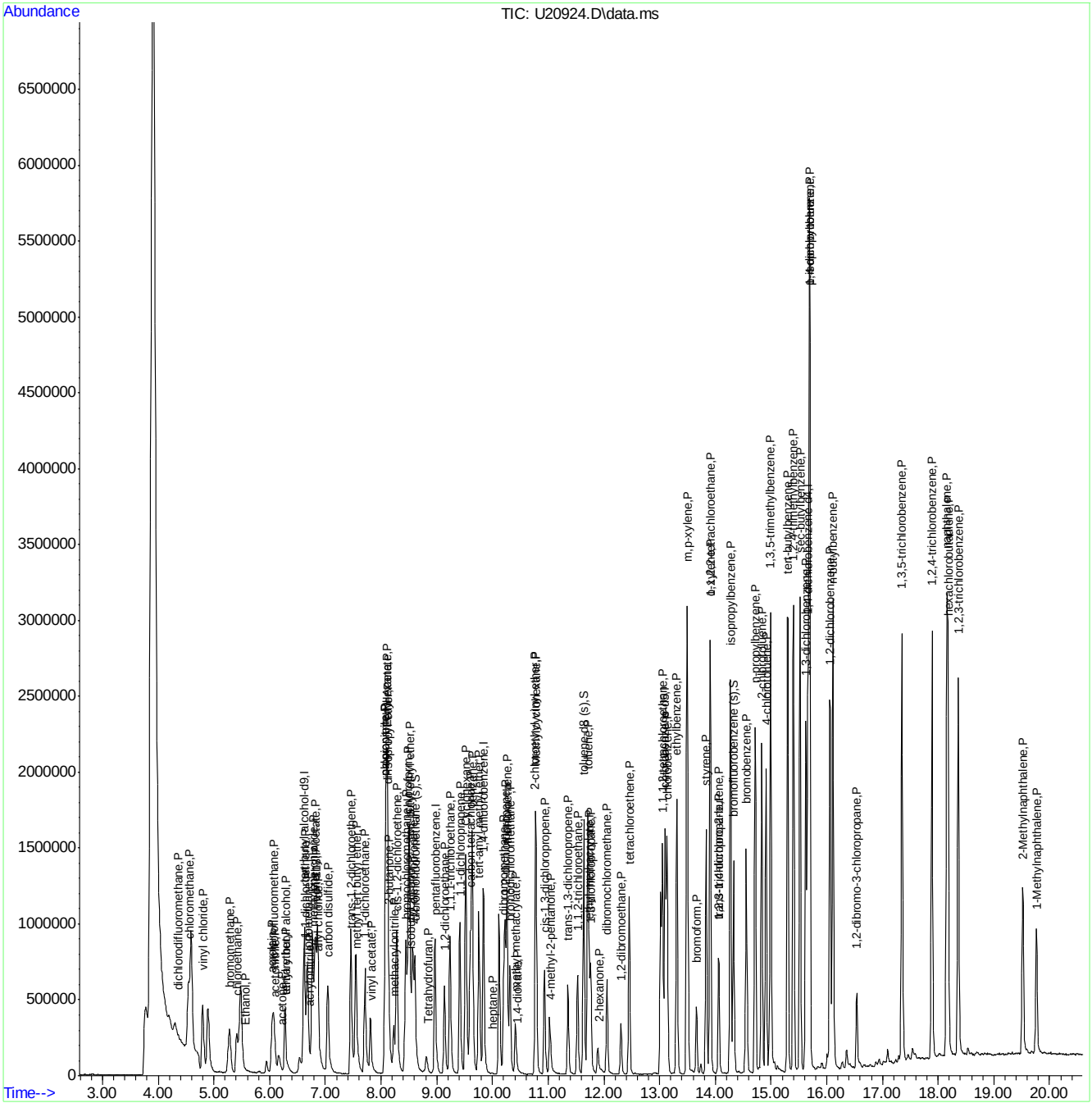
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	15.624	146	1046999	52.13	ppb	99
94) p-isopropyltoluene	15.694	119	2072801	53.82	ppb	95
95) 1,4-dichlorobenzene	15.692	146	1041673	49.38	ppb	98
96) 1,2-dichlorobenzene	16.060	146	1156285	53.08	ppb	96
97) n-butylbenzene	16.112	91	1768306	52.70	ppb	85
98) 1,2-dibromo-3-chloropr...	16.540	75	115058	51.51	ppb	81
99) 1,3,5-trichlorobenzene	17.352	180	982715	58.16	ug/L	96
100) 1,2,4-trichlorobenzene	17.891	180	972234	61.03	ppb	91
101) hexachlorobutadiene	18.180	225	457509	62.22	ppb	96
102) naphthalene	18.157	128	2472198	60.25	ppb	100
103) 2-Methylnaphthalene	19.523	142	689496	34.66	ug/L	98
104) 1-Methylnaphthalene	19.770	142	555714	34.04	ug/L	98
105) 1,2,3-trichlorobenzene	18.363	180	889324	61.24	ppb	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140707\
Data File : U20924.D
Acq On : 7 Jul 2014 7:17 pm
Operator : GaryK
Sample : mc31807-1ms
Misc : ms32235,msu936,,,,5,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 08 07:57:13 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration



ACCUTEST LABORATORIES MC31799

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140707\
Data File : U20925.D
Acq On : 7 Jul 2014 7:45 pm
Operator : GaryK
Sample : mc31807-1msd
Misc : ms32235,msu936,,,,5,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 08 07:57:38 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.604	65	337120	50.00	ppb		0.00
4) pentafluorobenzene	8.974	168	703090	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.843	114	1156383	50.00	ppb		0.00
66) chlorobenzene-d5	13.097	82	493711	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.662	152	718337	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.613	113	462008	60.72	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 121.44%				
60) toluene-d8 (s)	11.639	98	1171717	53.12	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 106.24%				
82) bromofluorobenzene (s)	14.327	95	470362	51.69	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.38%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	6.287	59	349844	489.81	ppb		90
3) Ethanol	5.559	45	589386	5657.75	ppb	#	39
5) dichlorodifluoromethane	4.345	85	269805	37.96	ppb		94
6) chloromethane	4.550	50	975637	52.11	ppb		96
7) vinyl chloride	4.801	62	603632	45.20	ppb		99
8) bromomethane	5.280	96	350790	49.63	ppb		90
9) chloroethane	5.419	64	289861	47.60	ppb		98
10) ethyl ether	6.287	59	349844	49.17	ppb		90
11) acetonitrile	6.095	41	67673	55.70	ppb	#	52
12) trichlorofluoromethane	6.064	101	718566	49.00	ppb		97
13) freon-113	6.831	101	483842	52.12	ppb		88
14) acrolein	6.045	56	25957	20.62	ppb		96
15) 1,1-dichloroethene	6.631	96	396874	49.90	ppb		96
16) acetone	6.197	58	67169	33.86	ppb		100
17) Methyl Acetate	6.824	43	393570	52.58	ppb	#	84
18) methylene chloride	6.779	84	410616	47.72	ppb	#	75
19) methyl tert butyl ether	7.563	73	911096	43.54	ppb		85
20) acrylonitrile	6.705	53	181872	47.38	ppb		93
21) allyl chloride	6.873	41	739491	42.34	ppb		89
22) trans-1,2-dichloroethene	7.466	96	434989	47.60	ppb		96
23) iodomethane	6.686	142	753006	47.05	ppb		95
24) carbon disulfide	7.052	76	1015011	43.02	ppb		96
25) propionitrile	8.081	54	46464	61.07	ppb		100
26) vinyl acetate	7.820	43	754161	61.03	ppb		98
27) chloroprene	8.081	53	853690	61.15	ppb		86
28) di-isopropyl ether	8.122	45	1780118	53.12	ppb		97
29) methacrylonitrile	8.239	41	251420	50.42	ppb		90
30) 2-butanone	8.131	72	33664	32.14	ppb	#	1
31) Ethyl Acetate	8.116	43	1413529	48.44	ug/L		90
32) Hexane	8.105	41	735242	51.63	ppb	#	72
33) 1,1-dichloroethane	7.718	63	849969	51.18	ppb		98
34) tert-butyl ethyl ether	8.517	59	1282982	43.67	ppb		99
35) isobutyl alcohol	8.539	43	267909	251.47	ppb		85
36) 2,2-dichloropropane	8.575	77	468663	46.70	ppb		88

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140707\
Data File : U20925.D
Acq On : 7 Jul 2014 7:45 pm
Operator : GaryK
Sample : mc31807-1msd
Misc : ms32235,msu936,,,,5,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 08 07:57:38 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) cis-1,2-dichloroethene	8.286	96	462260	47.87	ppb		99
38) bromochloromethane	8.453	128	258458	52.49	ppb		90
39) chloroform	8.491	83	717406	50.34	ppb		99
41) Tetrahydrofuran	8.828	42	132918	47.68	ppb		86
42) 1,1,1-trichloroethane	9.242	97	707745	54.03	ppb		96
44) Cyclohexane	9.525	56	906980	52.77	ppb		88
45) carbon tetrachloride	9.605	117	664668	57.08	ppb		98
46) 1,1-dichloropropene	9.417	75	463755	51.04	ppb		91
47) benzene	9.640	78	1277275	47.67	ppb		95
48) 1,2-dichloroethane	9.141	62	546592	51.79	ppb		100
49) tert-amyl methyl ether	9.764	73	852072	43.04	ppb		86
50) heptane	10.008	43	9969	0.89	ppb		55
51) trichloroethene	10.261	95	381573	47.16	ppb		73
52) 1,2-dichloropropane	10.228	63	375672	48.17	ppb		100
53) dibromomethane	10.202	93	227827	51.19	ppb		90
54) bromodichloromethane	10.315	83	477739	52.77	ppb		95
55) Methylcyclohexane	10.778	83	621514	51.23	ppb		84
56) 2-chloroethyl vinyl ether	10.770	63	9551	2.77	ppb	#	1
57) methyl methacrylate	10.421	69	129640	44.89	ppb	#	69
58) 1,4-dioxane	10.452	88	14811	299.38	ppb		77
59) cis-1,3-dichloropropene	10.936	75	382086	41.90	ppb		90
61) 4-methyl-2-pentanone	11.040	43	436513	55.65	ppb		94
62) toluene	11.711	92	701105	48.47	ppb		97
63) trans-1,3-dichloropropene	11.357	75	307765	43.70	ppb		97
64) 1,1,2-trichloroethane	11.528	83	194517	45.77	ppb		97
65) ethyl methacrylate	11.739	69	255036	42.82	ppb	#	70
67) tetrachloroethene	12.454	166	355637	52.09	ppb		96
68) 1,3-dichloropropane	11.764	76	347351	47.21	ppb		95
69) dibromochloromethane	12.054	129	388441	52.86	ppb		97
70) 1,2-dibromoethane	12.307	107	277267	49.47	ppb		98
71) 2-hexanone	11.913	43	234981	38.64	ppb		100
72) chlorobenzene	13.134	112	894402	49.75	ppb		86
73) 1,1,1,2-tetrachloroethane	13.053	131	498506	56.14	ppb		98
74) ethylbenzene	13.309	91	1406536	49.70	ppb		92
75) m,p-xylene	13.493	106	1172619	98.64	ppb		84
76) o-xylene	13.906	106	685546	51.42	ppb		87
77) styrene	13.834	104	830748	44.97	ppb		100
78) bromoform	13.661	173	247010	48.38	ppb		99
79) trans-1,4-dichloro-2-b...	14.064	53	28752	11.93	ppb	#	1
81) isopropylbenzene	14.270	105	1919635	55.15	ppb		97
83) bromobenzene	14.558	156	473037	51.09	ppb	#	77
84) 1,1,2,2-tetrachloroethane	13.912	83	423880	60.06	ppb		99
85) 1,2,3-trichloropropane	14.061	75	315300	38.42	ppb		99
86) n-propylbenzene	14.715	91	1855537	49.14	ppb		88
87) 2-chlorotoluene	14.833	91	1223277	50.77	ppb		81
88) 4-chlorotoluene	14.909	91	1151680	47.57	ppb		80
89) 1,3,5-trimethylbenzene	14.993	105	1749020	51.06	ppb		95
90) tert-butylbenzene	15.298	91	1005502	53.86	ppb		86
91) 1,2,4-trimethylbenzene	15.402	105	1755592	50.60	ppb		98
92) sec-butylbenzene	15.521	105	2357232	54.22	ppb		91

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140707\
Data File : U20925.D
Acq On : 7 Jul 2014 7:45 pm
Operator : GaryK
Sample : mc31807-1msd
Misc : ms32235,msu936,,,,5,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 08 07:57:38 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

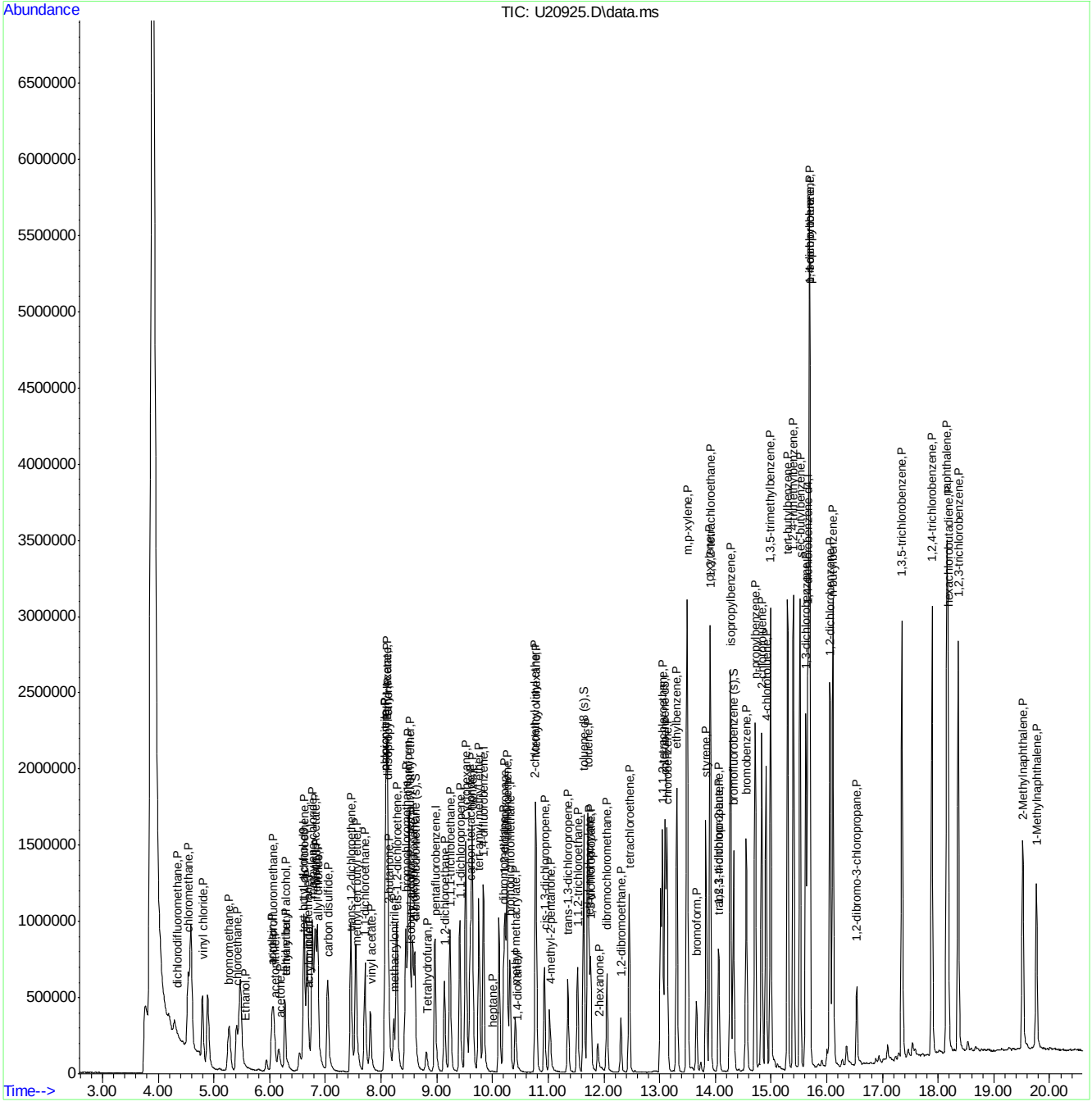
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	15.624	146	1071048	52.43	ppb	97
94) p-isopropyltoluene	15.694	119	2055721	52.48	ppb	94
95) 1,4-dichlorobenzene	15.691	146	1037351	48.35	ppb	100
96) 1,2-dichlorobenzene	16.059	146	1196415	54.00	ppb	96
97) n-butylbenzene	16.112	91	1758831	51.53	ppb	83
98) 1,2-dibromo-3-chloropr...	16.540	75	120111	52.87	ppb	73
99) 1,3,5-trichlorobenzene	17.351	180	1011956	58.88	ug/L	96
100) 1,2,4-trichlorobenzene	17.890	180	1034568	63.85	ppb	93
101) hexachlorobutadiene	18.179	225	465806	62.28	ppb	96
102) naphthalene	18.156	128	2725706	65.31	ppb	100
103) 2-Methylnaphthalene	19.522	142	867995	42.90	ug/L	97
104) 1-Methylnaphthalene	19.768	142	703106	42.34	ug/L	98
105) 1,2,3-trichlorobenzene	18.363	180	969248	65.62	ppb	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140707\
Data File : U20925.D
Acq On : 7 Jul 2014 7:45 pm
Operator : GaryK
Sample : mc31807-1msd
Misc : ms32235,msu936,,,,5,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 08 07:57:38 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20953.D
Acq On : 8 Jul 2014 6:21 pm
Operator : GaryK
Sample : mc31799-17ms
Misc : ms32230,msu937,,,,5,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 09 07:44:13 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.592	65	249469	50.00	ppb		0.00
4) pentafluorobenzene	8.975	168	638103	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.844	114	1039576	50.00	ppb		0.00
66) chlorobenzene-d5	13.098	82	444939	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.663	152	654305	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.614	113	417533	60.46	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 120.92%				
60) toluene-d8 (s)	11.640	98	1081716	54.55	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 109.10%				
82) bromofluorobenzene (s)	14.328	95	417818	50.41	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.82%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	6.291	59	305554	578.11	ppb		87
3) Ethanol	5.556	45	356728	4601.92	ppb		97
5) dichlorodifluoromethane	4.351	85	228349	35.40	ppb		90
6) chloromethane	4.552	50	899649	52.95	ppb		96
7) vinyl chloride	4.803	62	555439	45.83	ppb		96
8) bromomethane	5.281	96	338636	52.79	ppb		92
9) chloroethane	5.420	64	265427	48.02	ppb		93
10) ethyl ether	6.291	59	306274	47.43	ppb		87
11) acetonitrile	6.066	41	40537	36.76	ppb	#	66
12) trichlorofluoromethane	6.066	101	681601	51.22	ppb		95
13) freon-113	6.831	101	430769	51.13	ppb		85
14) acrolein	6.057	56	39316	34.42	ppb		92
15) 1,1-dichloroethene	6.631	96	352131	48.78	ppb		99
16) acetone	6.200	58	42948	23.86	ppb		95
17) Methyl Acetate	6.819	43	321989	47.40	ppb	#	86
18) methylene chloride	6.782	84	373192	47.79	ppb	#	75
19) methyl tert butyl ether	7.564	73	772744	40.69	ppb		80
20) acrylonitrile	6.699	53	145596	41.80	ppb		99
21) allyl chloride	6.873	41	760587	47.98	ppb		88
22) trans-1,2-dichloroethene	7.468	96	398716	48.07	ppb		97
23) iodomethane	6.689	142	677781	46.66	ppb		93
24) carbon disulfide	7.055	76	832351	38.87	ppb		98
25) propionitrile	8.084	54	44384	64.27	ppb		100
26) vinyl acetate	7.823	43	666780	59.45	ppb		94
27) chloroprene	8.084	53	779983	61.56	ppb		88
28) di-isopropyl ether	8.124	45	1627242	53.50	ppb		95
29) methacrylonitrile	8.238	41	208715	46.12	ppb		88
30) 2-butanone	8.130	72	25988	27.34	ppb	#	1
31) Ethyl Acetate	8.117	43	1250803	47.23	ug/L		87
32) Hexane	8.107	41	659486	51.02	ppb	#	74
33) 1,1-dichloroethane	7.720	63	764541	50.72	ppb		99
34) tert-butyl ethyl ether	8.520	59	1104083	41.41	ppb		98
35) isobutyl alcohol	8.537	43	226840	233.56	ppb		82
36) 2,2-dichloropropane	8.576	77	460563	50.56	ppb		95

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20953.D
Acq On : 8 Jul 2014 6:21 pm
Operator : GaryK
Sample : mc31799-17ms
Misc : ms32230,msu937,,,,5,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 09 07:44:13 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) cis-1,2-dichloroethene	8.289	96	577198	65.86	ppb		98
38) bromochloromethane	8.456	128	232060	51.93	ppb		91
39) chloroform	8.492	83	648644	50.15	ppb		97
41) Tetrahydrofuran	8.842	42	116042	45.87	ppb		86
42) 1,1,1-trichloroethane	9.242	97	642536	54.04	ppb		95
44) Cyclohexane	9.526	56	817046	52.87	ppb		87
45) carbon tetrachloride	9.606	117	616394	58.88	ppb		96
46) 1,1-dichloropropene	9.418	75	412337	50.48	ppb		91
47) benzene	9.641	78	1120772	46.53	ppb		96
48) 1,2-dichloroethane	9.143	62	488494	51.48	ppb		99
49) tert-amyl methyl ether	9.765	73	730838	41.06	ppb		87
50) heptane	10.123	43	534855	53.09	ppb	#	63
51) trichloroethene	10.262	95	388902	53.47	ppb		71
52) 1,2-dichloropropane	10.229	63	329541	47.01	ppb		98
53) dibromomethane	10.204	93	203264	50.81	ppb		94
54) bromodichloromethane	10.317	83	436461	53.63	ppb		98
55) Methylcyclohexane	10.779	83	558564	51.22	ppb	#	83
56) 2-chloroethyl vinyl ether	10.769	63	9640	3.11	ppb	#	1
57) methyl methacrylate	10.423	69	112054	43.16	ppb	#	77
58) 1,4-dioxane	10.443	88	7466	174.12	ppb		84
59) cis-1,3-dichloropropene	10.937	75	367108	44.79	ppb		88
61) 4-methyl-2-pentanone	11.046	43	354756	50.31	ppb		91
62) toluene	11.712	92	623911	47.98	ppb		96
63) trans-1,3-dichloropropene	11.358	75	294504	46.52	ppb		100
64) 1,1,2-trichloroethane	11.529	83	170588	44.65	ppb		96
65) ethyl methacrylate	11.741	69	218043	40.72	ppb	#	65
67) tetrachloroethene	12.455	166	322763	52.46	ppb		96
68) 1,3-dichloropropane	11.765	76	304310	45.90	ppb		93
69) dibromochloromethane	12.055	129	351605	53.09	ppb		100
70) 1,2-dibromoethane	12.308	107	231669	45.86	ppb		96
71) 2-hexanone	11.922	43	181212	33.07	ppb		99
72) chlorobenzene	13.135	112	793438	48.97	ppb		86
73) 1,1,1,2-tetrachloroethane	13.054	131	458650	57.31	ppb		96
74) ethylbenzene	13.310	91	1266946	49.67	ppb		92
75) m,p-xylene	13.495	106	1064395	99.35	ppb		85
76) o-xylene	13.907	106	620457	51.64	ppb		83
77) styrene	13.835	104	780321	46.87	ppb		97
78) bromoform	13.662	173	217447	47.26	ppb		99
79) trans-1,4-dichloro-2-b...	14.064	53	43664	20.11	ppb	#	1
81) isopropylbenzene	14.271	105	1753779	55.32	ppb		95
83) bromobenzene	14.559	156	421041	49.92	ppb	#	73
84) 1,1,2,2-tetrachloroethane	13.913	83	357555	55.62	ppb		98
85) 1,2,3-trichloropropane	14.062	75	279488	37.39	ppb		99
86) n-propylbenzene	14.717	91	1676797	48.75	ppb		90
87) 2-chlorotoluene	14.834	91	1099621	50.11	ppb		82
88) 4-chlorotoluene	14.911	91	1037183	47.03	ppb		81
89) 1,3,5-trimethylbenzene	14.994	105	1618037	51.86	ppb		94
90) tert-butylbenzene	15.299	91	919522	54.07	ppb		81
91) 1,2,4-trimethylbenzene	15.403	105	1591417	50.36	ppb		97
92) sec-butylbenzene	15.522	105	2135086	53.92	ppb		92

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20953.D
Acq On : 8 Jul 2014 6:21 pm
Operator : GaryK
Sample : mc31799-17ms
Misc : ms32230,msu937,,,,5,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 09 07:44:13 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

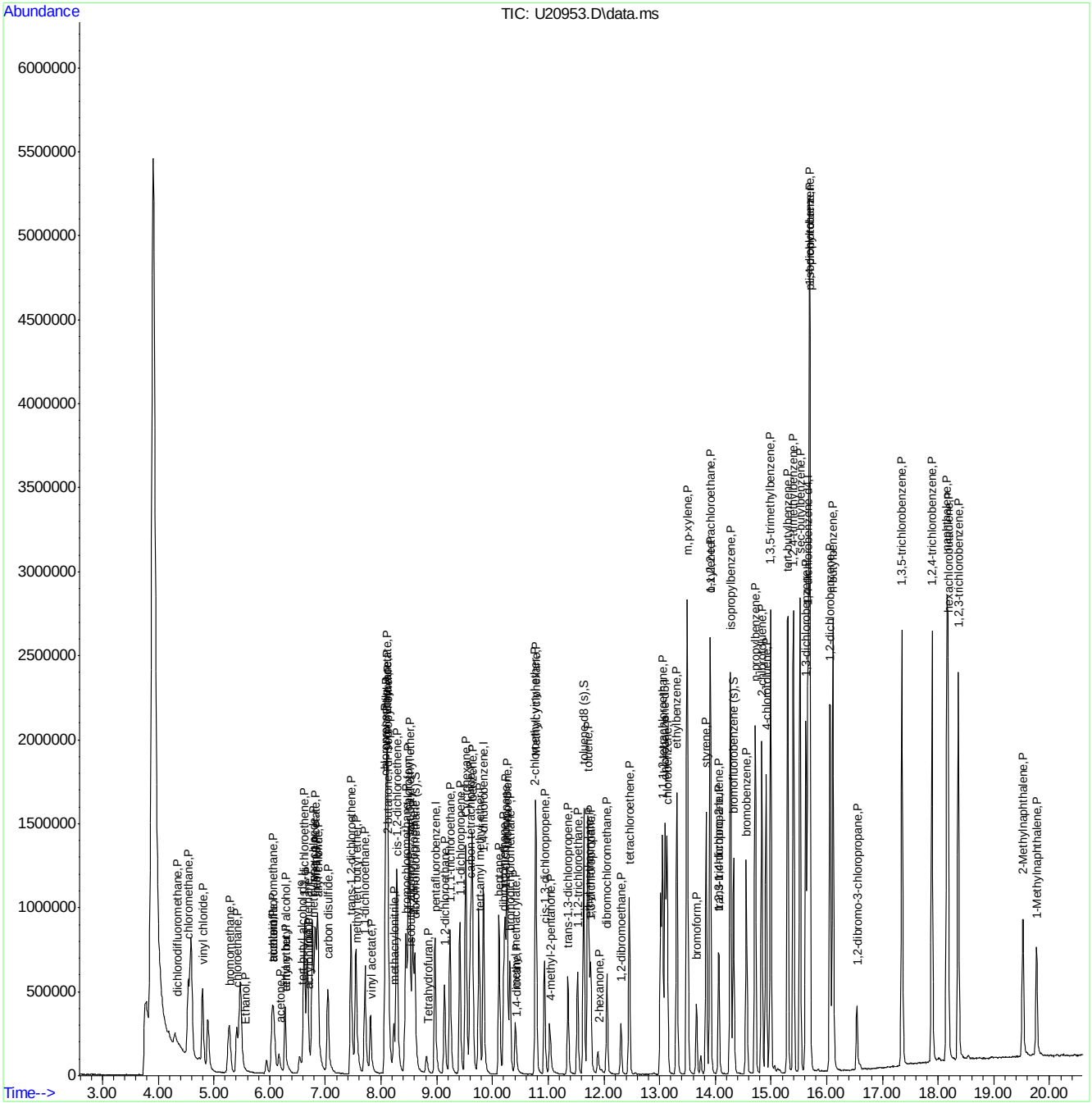
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
93)	1,3-dichlorobenzene	15.624	146	950391	51.08	ppb		96
94)	p-isopropyltoluene	15.695	119	1888074	52.92	ppb		94
95)	1,4-dichlorobenzene	15.692	146	942853	48.24	ppb		98
96)	1,2-dichlorobenzene	16.060	146	1074305	53.23	ppb		97
97)	n-butylbenzene	16.114	91	1591798	51.20	ppb		83
98)	1,2-dibromo-3-chloropr...	16.545	75	99404	48.04	ppb	#	75
99)	1,3,5-trichlorobenzene	17.353	180	902947	57.68	ug/L		96
100)	1,2,4-trichlorobenzene	17.891	180	886711	60.08	ppb		93
101)	hexachlorobutadiene	18.180	225	420413	61.72	ppb		97
102)	naphthalene	18.158	128	2153663	56.66	ppb		100
103)	2-Methylnaphthalene	19.526	142	536413	29.11	ug/L		99
104)	1-Methylnaphthalene	19.771	142	431974	28.56	ug/L		99
105)	1,2,3-trichlorobenzene	18.364	180	818431	60.83	ppb		94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20953.D
Acq On : 8 Jul 2014 6:21 pm
Operator : GaryK
Sample : mc31799-17ms
Misc : ms32230,msu937,,,,5,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 09 07:44:13 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Tomasz Torski
07/09/14 08:30

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20954.D
Acq On : 8 Jul 2014 6:48 pm
Operator : GaryK
Sample : mc31799-17msd
Misc : ms32230,msu937,,,,5,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 09 07:44:39 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.605	65	285260	50.00	ppb		0.00
4) pentafluorobenzene	8.975	168	679471	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.843	114	1108677	50.00	ppb		0.00
66) chlorobenzene-d5	13.099	82	431360	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.663	152	682429	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.614	113	442247	60.14	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 120.28%				
60) toluene-d8 (s)	11.639	98	1131383	53.50	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 107.00%				
82) bromofluorobenzene (s)	14.328	95	434544	50.27	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.54%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	6.289	59	316885	524.32	ppb		94
3) Ethanol	5.558	45	479868	5438.58	ppb		96
5) dichlorodifluoromethane	4.341	85	236240	34.39	ppb		90
6) chloromethane	4.554	50	907697	50.17	ppb		98
7) vinyl chloride	4.807	62	548312	42.48	ppb		94
8) bromomethane	5.282	96	332391	48.67	ppb		88
9) chloroethane	5.422	64	266520	45.28	ppb		99
10) ethyl ether	6.289	59	316885	46.09	ppb		85
11) acetonitrile	6.085	41	57020	48.56	ppb		70
12) trichlorofluoromethane	6.068	101	670406	47.31	ppb		99
13) freon-113	6.831	101	443249	49.40	ppb		87
14) acrolein	6.053	56	39051	32.10	ppb		87
15) 1,1-dichloroethene	6.633	96	352458	45.85	ppb		92
16) acetone	6.198	58	42656m	22.25	ppb		
17) Methyl Acetate	6.822	43	349648	48.33	ppb	#	84
18) methylene chloride	6.781	84	371041	44.62	ppb	#	67
19) methyl tert butyl ether	7.563	73	832108	41.15	ppb		88
20) acrylonitrile	6.707	53	166673	44.93	ppb		96
21) allyl chloride	6.875	41	764123	45.27	ppb		89
22) trans-1,2-dichloroethene	7.467	96	394953	44.72	ppb		93
23) iodomethane	6.689	142	672863	43.50	ppb		92
24) carbon disulfide	7.053	76	801043	35.13	ppb		97
25) propionitrile	8.082	54	42599	57.93	ppb		100
26) vinyl acetate	7.821	43	711495	59.57	ppb		96
27) chloroprene	8.083	53	801853	59.43	ppb		88
28) di-isopropyl ether	8.123	45	1648592	50.90	ppb		96
29) methacrylonitrile	8.238	41	223857	46.45	ppb		89
30) 2-butanone	8.130	72	27005	26.68	ppb	#	1
31) Ethyl Acetate	8.117	43	1286640	45.62	ug/L		88
32) Hexane	8.106	41	670422	48.71	ppb	#	75
33) 1,1-dichloroethane	7.719	63	782205	48.73	ppb		98
34) tert-butyl ethyl ether	8.519	59	1210586	42.64	ppb		99
35) isobutyl alcohol	8.538	43	250346	242.64	ppb		85
36) 2,2-dichloropropane	8.576	77	483114	49.81	ppb		88

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20954.D
Acq On : 8 Jul 2014 6:48 pm
Operator : GaryK
Sample : mc31799-17msd
Misc : ms32230,msu937,,,,5,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 09 07:44:39 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) cis-1,2-dichloroethene	8.289	96	594254	63.68	ppb		98
38) bromochloromethane	8.455	128	236100	49.62	ppb		90
39) chloroform	8.492	83	660597	47.96	ppb		99
41) Tetrahydrofuran	8.824	42	110024	40.84	ppb		76
42) 1,1,1-trichloroethane	9.243	97	655500	51.78	ppb		94
44) Cyclohexane	9.526	56	820611	49.79	ppb		88
45) carbon tetrachloride	9.605	117	617144	55.28	ppb		100
46) 1,1-dichloropropene	9.417	75	425298	48.82	ppb		88
47) benzene	9.641	78	1159316	45.13	ppb		96
48) 1,2-dichloroethane	9.142	62	516281	51.02	ppb		98
49) tert-amyl methyl ether	9.764	73	792818	41.77	ppb		83
50) heptane	10.123	43	548471	51.05	ppb	#	70
51) trichloroethene	10.261	95	393787	50.77	ppb		71
52) 1,2-dichloropropane	10.228	63	347132	46.43	ppb		99
53) dibromomethane	10.203	93	210092	49.24	ppb		94
54) bromodichloromethane	10.316	83	453477	52.25	ppb		96
55) Methylcyclohexane	10.779	83	567424	48.79	ppb		87
56) 2-chloroethyl vinyl ether	10.770	63	8845	2.68	ppb	#	1
57) methyl methacrylate	10.423	69	111855	40.40	ppb	#	64
58) 1,4-dioxane	10.448	88	13024	275.77	ppb		93
59) cis-1,3-dichloropropene	10.937	75	377151	43.14	ppb		89
61) 4-methyl-2-pentanone	11.044	43	360829	47.98	ppb		91
62) toluene	11.712	92	629423	45.39	ppb		97
63) trans-1,3-dichloropropene	11.358	75	305938	45.31	ppb		100
64) 1,1,2-trichloroethane	11.530	83	181296	44.49	ppb		98
65) ethyl methacrylate	11.740	69	221750	38.84	ppb	#	67
67) tetrachloroethene	12.455	166	327582	54.92	ppb		94
68) 1,3-dichloropropane	11.765	76	300687	46.78	ppb		93
69) dibromochloromethane	12.055	129	350593	54.60	ppb		96
70) 1,2-dibromoethane	12.308	107	238250	48.65	ppb		96
71) 2-hexanone	11.924	43	180623	34.00	ppb		99
72) chlorobenzene	13.135	112	803592	51.16	ppb		86
73) 1,1,1,2-tetrachloroethane	13.054	131	456661	58.86	ppb		95
74) ethylbenzene	13.310	91	1257144	50.84	ppb		91
75) m,p-xylene	13.494	106	1039259	100.06	ppb		87
76) o-xylene	13.907	106	621495	53.36	ppb		85
77) styrene	13.835	104	773149	47.90	ppb		97
78) bromoform	13.662	173	220205	49.37	ppb		95
79) trans-1,4-dichloro-2-b...	14.064	53	50421	23.95	ppb	#	15
81) isopropylbenzene	14.270	105	1743937	52.74	ppb		97
83) bromobenzene	14.559	156	418358	47.56	ppb	#	76
84) 1,1,2,2-tetrachloroethane	13.913	83	357573	53.33	ppb		99
85) 1,2,3-trichloropropane	14.062	75	288408	36.99	ppb		96
86) n-propylbenzene	14.716	91	1649691	45.99	ppb		90
87) 2-chlorotoluene	14.834	91	1099070	48.02	ppb		81
88) 4-chlorotoluene	14.910	91	1053899	45.82	ppb		82
89) 1,3,5-trimethylbenzene	14.993	105	1600407	49.18	ppb		94
90) tert-butylbenzene	15.298	91	922159	51.99	ppb		85
91) 1,2,4-trimethylbenzene	15.402	105	1608403	48.80	ppb		98
92) sec-butylbenzene	15.522	105	2151773	52.10	ppb		92

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20954.D
Acq On : 8 Jul 2014 6:48 pm
Operator : GaryK
Sample : mc31799-17msd
Misc : ms32230,msu937,,,,5,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 09 07:44:39 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

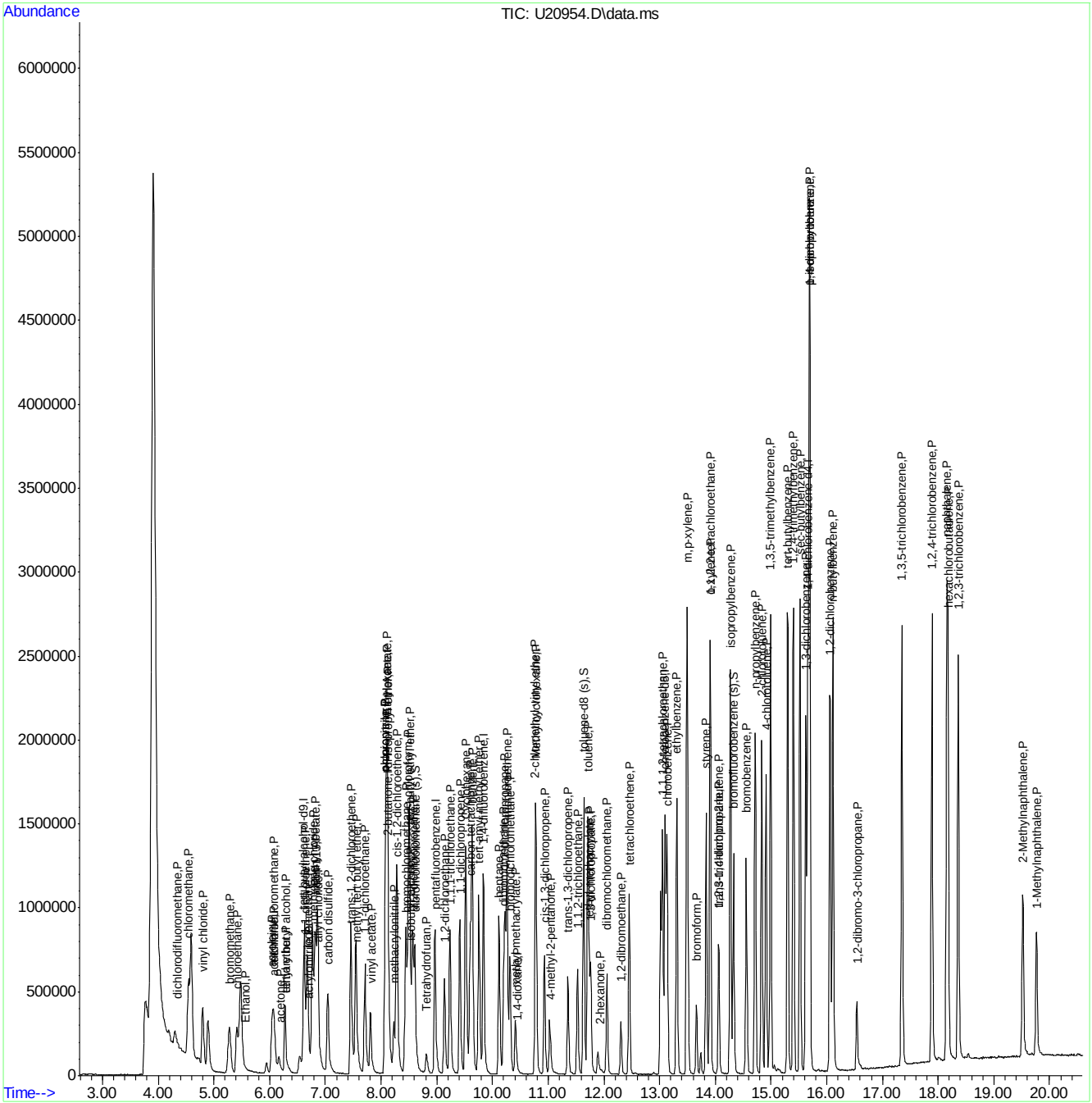
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
93) 1,3-dichlorobenzene	15.624	146	971404	50.06	ppb		97
94) p-isopropyltoluene	15.694	119	1887217	50.71	ppb		95
95) 1,4-dichlorobenzene	15.691	146	973276	47.75	ppb		99
96) 1,2-dichlorobenzene	16.060	146	1088757	51.72	ppb		96
97) n-butylbenzene	16.113	91	1614090	49.78	ppb		81
98) 1,2-dibromo-3-chloropr...	16.543	75	103305	47.87	ppb	#	59
99) 1,3,5-trichlorobenzene	17.352	180	925178	56.66	ug/L		96
100) 1,2,4-trichlorobenzene	17.891	180	934545	60.71	ppb		91
101) hexachlorobutadiene	18.181	225	425970	59.96	ppb		94
102) naphthalene	18.157	128	2283295	57.59	ppb		100
103) 2-Methylnaphthalene	19.525	142	634316	33.00	ug/L		97
104) 1-Methylnaphthalene	19.771	142	519393	32.92	ug/L		99
105) 1,2,3-trichlorobenzene	18.364	180	859576	61.25	ppb		92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20954.D
Acq On : 8 Jul 2014 6:48 pm
Operator : GaryK
Sample : mc31799-17msd
Misc : ms32230,msu937,,,,5,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 09 07:44:39 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Tomasz Torski
07/09/14 08:30

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20955.D
Acq On : 8 Jul 2014 7:15 pm
Operator : GaryK
Sample : mc31799-24ms
Misc : ms32230,msu937,,,,5,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 09 07:45:00 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.611	65	273671	50.00	ppb		0.01
4) pentafluorobenzene	8.975	168	701351	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.843	114	1163284	50.00	ppb		0.00
66) chlorobenzene-d5	13.097	82	498579	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.663	152	717603	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.614	113	463050	61.00	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 122.00%				
60) toluene-d8 (s)	11.640	98	1209533	54.51	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 109.02%				
82) bromofluorobenzene (s)	14.328	95	464333	51.08	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.16%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	6.290	59	351059	605.46	ppb		94
3) Ethanol	5.564	45	477400	5644.93	ppb		97
5) dichlorodifluoromethane	4.348	85	240160	33.87	ppb		92
6) chloromethane	4.554	50	953392	51.05	ppb		99
7) vinyl chloride	4.807	62	588915	44.21	ppb		97
8) bromomethane	5.283	96	353684	50.17	ppb		95
9) chloroethane	5.422	64	285348	46.97	ppb		98
10) ethyl ether	6.290	59	351184	49.48	ppb		85
11) acetonitrile	6.091	41	55474	45.77	ppb	#	65
12) trichlorofluoromethane	6.067	101	725201	49.58	ppb		99
13) freon-113	6.834	101	471334	50.90	ppb		88
14) acrolein	6.045	56	39739	31.65	ppb		99
15) 1,1-dichloroethene	6.633	96	380092	47.91	ppb		95
16) acetone	6.206	58	47131	23.82	ppb	#	83
17) Methyl Acetate	6.821	43	358056	47.95	ppb	#	86
18) methylene chloride	6.781	84	399337	46.53	ppb	#	72
19) methyl tert butyl ether	7.565	73	882677	42.29	ppb		86
20) acrylonitrile	6.703	53	170279	44.47	ppb		93
21) allyl chloride	6.874	41	797768	45.79	ppb		89
22) trans-1,2-dichloroethene	7.467	96	424750	46.59	ppb		93
23) iodomethane	6.689	142	728903	45.65	ppb		93
24) carbon disulfide	7.053	76	827141	35.15	ppb		97
25) propionitrile	8.082	54	47560	62.66	ppb		100
26) vinyl acetate	7.822	43	766114	62.15	ppb		96
27) chloroprene	8.083	53	850772	61.09	ppb		85
28) di-isopropyl ether	8.123	45	1763971	52.76	ppb		95
29) methacrylonitrile	8.238	41	237002	47.64	ppb		84
30) 2-butanone	8.132	72	28974	27.73	ppb	#	1
31) Ethyl Acetate	8.117	43	1357844	46.64	ug/L		87
32) Hexane	8.106	41	706254	49.71	ppb	#	77
33) 1,1-dichloroethane	7.719	63	836741	50.50	ppb		98
34) tert-butyl ethyl ether	8.519	59	1266470	43.22	ppb		98
35) isobutyl alcohol	8.539	43	260047	244.28	ppb		90
36) 2,2-dichloropropane	8.576	77	496500	49.59	ppb		91

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20955.D
Acq On : 8 Jul 2014 7:15 pm
Operator : GaryK
Sample : mc31799-24ms
Misc : ms32230,msu937,,,,5,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 09 07:45:00 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) cis-1,2-dichloroethene	8.289	96	446391	46.34	ppb		97
38) bromochloromethane	8.455	128	253134	51.54	ppb		89
39) chloroform	8.492	83	709833	49.93	ppb		99
41) Tetrahydrofuran	8.841	42	130885	47.07	ppb		85
42) 1,1,1-trichloroethane	9.243	97	701865	53.71	ppb		97
44) Cyclohexane	9.526	56	873154	50.50	ppb		87
45) carbon tetrachloride	9.605	117	663882	56.67	ppb		97
46) 1,1-dichloropropene	9.418	75	454928	49.77	ppb		92
47) benzene	9.641	78	1236967	45.89	ppb		95
48) 1,2-dichloroethane	9.142	62	552288	52.02	ppb		97
49) tert-amyl methyl ether	9.764	73	835352	41.94	ppb		87
50) heptane	10.125	43	582481m	51.67	ppb		
51) trichloroethene	10.262	95	375314	46.11	ppb		71
52) 1,2-dichloropropane	10.229	63	375002	47.80	ppb		100
53) dibromomethane	10.203	93	226026	50.49	ppb		96
54) bromodichloromethane	10.316	83	488689	53.66	ppb		97
55) Methylcyclohexane	10.779	83	604147	49.50	ppb	#	83
56) 2-chloroethyl vinyl ether	10.770	63	9421	2.72	ppb	#	1
57) methyl methacrylate	10.423	69	124145	42.74	ppb	#	68
58) 1,4-dioxane	10.454	88	12358	250.74	ppb	#	43
59) cis-1,3-dichloropropene	10.937	75	417859	45.56	ppb		87
61) 4-methyl-2-pentanone	11.045	43	398345	50.48	ppb		92
62) toluene	11.712	92	697571	47.94	ppb		96
63) trans-1,3-dichloropropene	11.358	75	341938	48.26	ppb		97
64) 1,1,2-trichloroethane	11.530	83	197410	46.17	ppb		93
65) ethyl methacrylate	11.740	69	244613	40.83	ppb	#	57
67) tetrachloroethene	12.455	166	357064	51.79	ppb		95
68) 1,3-dichloropropane	11.765	76	343752	46.27	ppb		91
69) dibromochloromethane	12.055	129	392993	52.96	ppb		97
70) 1,2-dibromoethane	12.308	107	269517	47.62	ppb		97
71) 2-hexanone	11.916	43	202627	32.99	ppb		99
72) chlorobenzene	13.135	112	886234	48.81	ppb		87
73) 1,1,1,2-tetrachloroethane	13.053	131	494624	55.16	ppb		97
74) ethylbenzene	13.310	91	1388093	48.57	ppb		91
75) m,p-xylene	13.494	106	1152638	96.01	ppb		86
76) o-xylene	13.907	106	673204	50.00	ppb		85
77) styrene	13.834	104	825449	44.25	ppb		98
78) bromoform	13.662	173	239472	46.45	ppb		99
79) trans-1,4-dichloro-2-b...	14.063	53	57337	23.56	ppb	#	26
81) isopropylbenzene	14.271	105	1897017	54.56	ppb		95
83) bromobenzene	14.559	156	462217	49.97	ppb	#	73
84) 1,1,2,2-tetrachloroethane	13.913	83	388698	55.13	ppb		98
85) 1,2,3-trichloropropane	14.062	75	314185	38.32	ppb		99
86) n-propylbenzene	14.716	91	1818791	48.22	ppb		91
87) 2-chlorotoluene	14.834	91	1206581	50.13	ppb		82
88) 4-chlorotoluene	14.910	91	1146741	47.42	ppb		83
89) 1,3,5-trimethylbenzene	14.993	105	1705407	49.84	ppb		94
90) tert-butylbenzene	15.298	91	988144	52.98	ppb		87
91) 1,2,4-trimethylbenzene	15.402	105	1680663	48.49	ppb		97
92) sec-butylbenzene	15.521	105	2300269	52.97	ppb		92

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20955.D
Acq On : 8 Jul 2014 7:15 pm
Operator : GaryK
Sample : mc31799-24ms
Misc : ms32230,msu937,,,,5,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 09 07:45:00 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

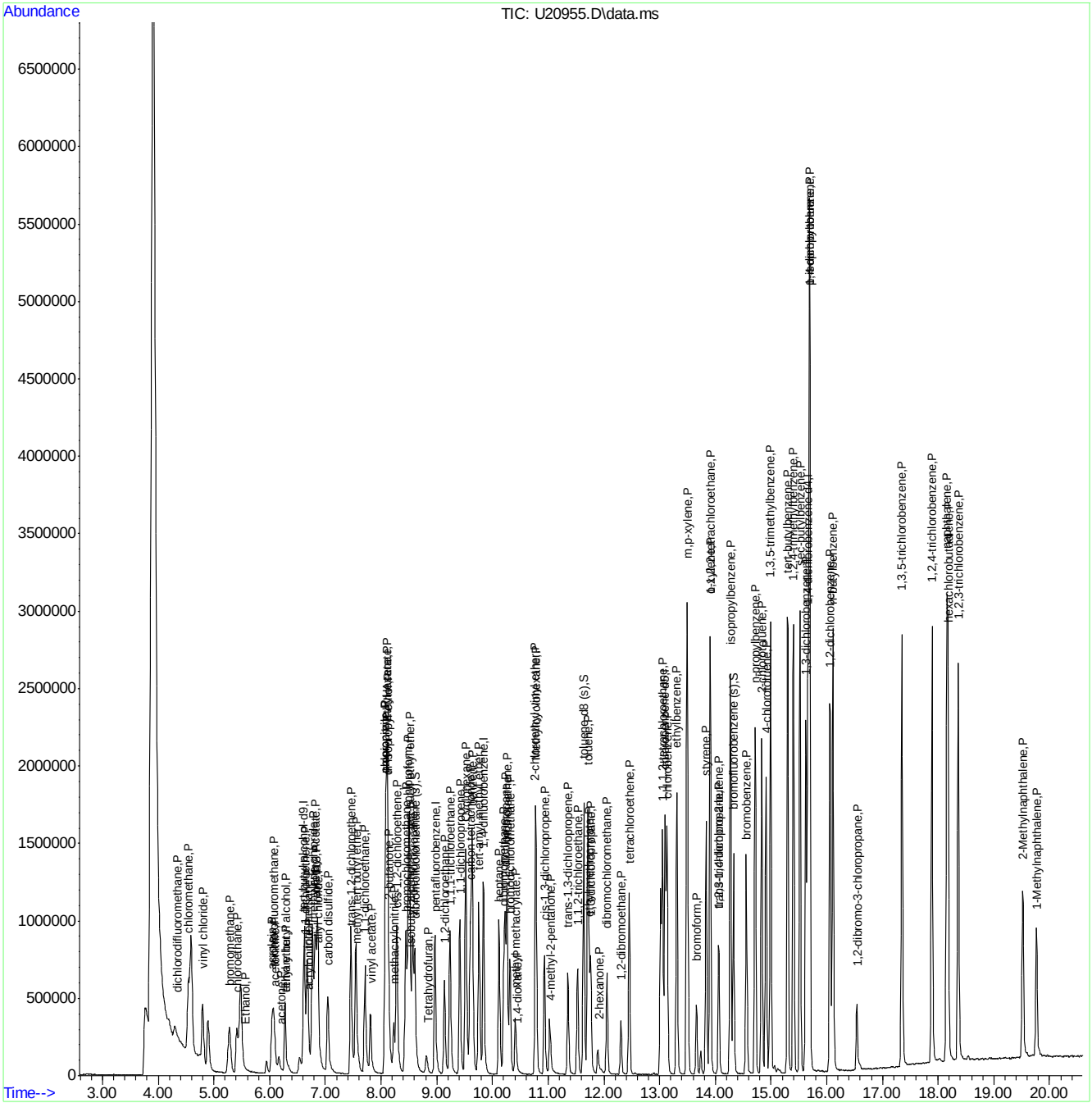
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
93) 1,3-dichlorobenzene	15.624	146	1041589	51.04	ppb		98
94) p-isopropyltoluene	15.694	119	2007423	51.30	ppb		94
95) 1,4-dichlorobenzene	15.691	146	1028698	47.99	ppb		100
96) 1,2-dichlorobenzene	16.060	146	1158399	52.33	ppb		97
97) n-butylbenzene	16.114	91	1717692	50.38	ppb		82
98) 1,2-dibromo-3-chloropr...	16.544	75	108953	48.01	ppb	#	76
99) 1,3,5-trichlorobenzene	17.352	180	976914	56.90	ug/L		95
100) 1,2,4-trichlorobenzene	17.891	180	979199	60.50	ppb		94
101) hexachlorobutadiene	18.180	225	455436	60.96	ppb		95
102) naphthalene	18.157	128	2382839	57.16	ppb		100
103) 2-Methylnaphthalene	19.525	142	683654	33.82	ug/L		98
104) 1-Methylnaphthalene	19.774	142	574057	34.60	ug/L		98
105) 1,2,3-trichlorobenzene	18.364	180	924878	62.68	ppb		93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20955.D
Acq On : 8 Jul 2014 7:15 pm
Operator : GaryK
Sample : mc31799-24ms
Misc : ms32230,msu937,,,,5,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 09 07:45:00 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Tomasz Torski
07/09/14 08:30

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20956.D
Acq On : 8 Jul 2014 7:42 pm
Operator : GaryK
Sample : mc31799-24msd
Misc : ms32230,msu937,,,,5,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 09 07:45:32 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.599	65	277776	50.00	ppb		0.00
4) pentafluorobenzene	8.974	168	697889	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.843	114	1146477	50.00	ppb		0.00
66) chlorobenzene-d5	13.097	82	496021	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.662	152	728650	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.614	113	460763	61.00	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 122.00%				
60) toluene-d8 (s)	11.639	98	1186156	54.24	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 108.48%				
82) bromofluorobenzene (s)	14.327	95	479702	51.97	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 103.94%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	6.289	59	332936	565.72	ppb		88
3) Ethanol	5.567	45	516231	6023.06	ppb		96
5) dichlorodifluoromethane	4.338	85	249756	35.40	ppb		93
6) chloromethane	4.550	50	932731	50.19	ppb		96
7) vinyl chloride	4.803	62	575520	43.41	ppb		97
8) bromomethane	5.280	96	341452	48.67	ppb		91
9) chloroethane	5.420	64	279648	46.26	ppb		97
10) ethyl ether	6.290	59	334061	47.30	ppb		89
11) acetonitrile	6.087	41	57885	48.00	ppb		78
12) trichlorofluoromethane	6.066	101	704840	48.42	ppb		94
13) freon-113	6.830	101	455971	49.48	ppb		87
14) acrolein	6.058	56	44378	35.52	ppb		92
15) 1,1-dichloroethene	6.632	96	370357	46.91	ppb		94
16) acetone	6.203	58	46152	23.44	ppb	#	75
17) Methyl Acetate	6.819	43	347538	46.77	ppb	#	83
18) methylene chloride	6.781	84	395870	46.35	ppb	#	80
19) methyl tert butyl ether	7.561	73	840366	40.46	ppb		86
20) acrylonitrile	6.706	53	162334	42.61	ppb		88
21) allyl chloride	6.874	41	780117	45.00	ppb		90
22) trans-1,2-dichloroethene	7.466	96	411732	45.39	ppb		97
23) iodomethane	6.689	142	718091	45.20	ppb		90
24) carbon disulfide	7.053	76	810388	34.61	ppb		98
25) propionitrile	8.082	54	45456	60.19	ppb		100
26) vinyl acetate	7.821	43	709633	57.85	ppb		97
27) chloroprene	8.083	53	836941	60.39	ppb		91
28) di-isopropyl ether	8.122	45	1724682	51.85	ppb		94
29) methacrylonitrile	8.238	41	222603	44.97	ppb		89
30) 2-butanone	8.135	72	25418	24.45	ppb	#	1
31) Ethyl Acetate	8.117	43	1321688	45.63	ug/L		87
32) Hexane	8.106	41	690852	48.87	ppb	#	74
33) 1,1-dichloroethane	7.718	63	830079	50.35	ppb		99
34) tert-butyl ethyl ether	8.519	59	1219919	41.84	ppb		98
35) isobutyl alcohol	8.541	43	253917	239.41	ppb		86
36) 2,2-dichloropropane	8.575	77	470484	47.23	ppb		93

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20956.D
Acq On : 8 Jul 2014 7:42 pm
Operator : GaryK
Sample : mc31799-24msd
Misc : ms32230,msu937,,,,5,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 09 07:45:32 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) cis-1,2-dichloroethene	8.289	96	444767	46.40	ppb		98
38) bromochloromethane	8.455	128	250575	51.27	ppb	#	87
39) chloroform	8.493	83	700931	49.55	ppb		99
41) Tetrahydrofuran	8.840	42	125441	45.33	ppb		79
42) 1,1,1-trichloroethane	9.242	97	670945	51.60	ppb		96
44) Cyclohexane	9.525	56	856935	50.28	ppb		89
45) carbon tetrachloride	9.605	117	637349	55.20	ppb		97
46) 1,1-dichloropropene	9.417	75	439402	48.78	ppb		90
47) benzene	9.641	78	1208814	45.50	ppb		97
48) 1,2-dichloroethane	9.142	62	525893	50.26	ppb		98
49) tert-amyl methyl ether	9.765	73	804907	41.01	ppb		83
50) heptane	10.125	43	545838m	49.13	ppb		
51) trichloroethene	10.262	95	358157	44.65	ppb		74
52) 1,2-dichloropropane	10.228	63	361450	46.75	ppb		99
53) dibromomethane	10.203	93	214277	48.56	ppb		91
54) bromodichloromethane	10.316	83	465059	51.82	ppb		96
55) Methylcyclohexane	10.779	83	594524	49.43	ppb		84
56) 2-chloroethyl vinyl ether	10.769	63	9966	2.92	ppb	#	1
57) methyl methacrylate	10.422	69	117743	41.13	ppb	#	69
58) 1,4-dioxane	10.451	88	13088	268.39	ppb	#	68
59) cis-1,3-dichloropropene	10.937	75	397070	43.92	ppb		89
61) 4-methyl-2-pentanone	11.048	43	385684	49.60	ppb		92
62) toluene	11.712	92	656475	45.78	ppb		100
63) trans-1,3-dichloropropene	11.358	75	320641	45.92	ppb		98
64) 1,1,2-trichloroethane	11.530	83	187119	44.41	ppb		95
65) ethyl methacrylate	11.740	69	233848	39.60	ppb	#	64
67) tetrachloroethene	12.455	166	345930	50.44	ppb		97
68) 1,3-dichloropropane	11.764	76	328075	44.39	ppb		96
69) dibromochloromethane	12.055	129	373100	50.53	ppb		98
70) 1,2-dibromoethane	12.308	107	263837	46.85	ppb		97
71) 2-hexanone	11.919	43	197659	32.35	ppb		98
72) chlorobenzene	13.134	112	866649	47.98	ppb		86
73) 1,1,1,2-tetrachloroethane	13.053	131	478704	53.66	ppb		95
74) ethylbenzene	13.310	91	1354997	47.66	ppb		90
75) m,p-xylene	13.494	106	1139496	95.41	ppb		84
76) o-xylene	13.907	106	660289	49.30	ppb		85
77) styrene	13.834	104	826320	44.52	ppb		98
78) bromoform	13.662	173	237671	46.34	ppb		100
79) trans-1,4-dichloro-2-b...	14.064	53	61073	25.23	ppb	#	18
81) isopropylbenzene	14.270	105	1849033	52.37	ppb		95
83) bromobenzene	14.559	156	464942	49.50	ppb	#	76
84) 1,1,2,2-tetrachloroethane	13.913	83	386581	54.00	ppb		99
85) 1,2,3-trichloropropane	14.062	75	324495	38.98	ppb		99
86) n-propylbenzene	14.716	91	1803813	47.10	ppb		91
87) 2-chlorotoluene	14.833	91	1184377	48.46	ppb		81
88) 4-chlorotoluene	14.910	91	1152667	46.94	ppb		82
89) 1,3,5-trimethylbenzene	14.993	105	1691953	48.69	ppb		94
90) tert-butylbenzene	15.298	91	966939	51.06	ppb		89
91) 1,2,4-trimethylbenzene	15.402	105	1687274	47.94	ppb		97
92) sec-butylbenzene	15.521	105	2280711	51.72	ppb		91

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20956.D
Acq On : 8 Jul 2014 7:42 pm
Operator : GaryK
Sample : mc31799-24msd
Misc : ms32230,msu937,,,,5,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 09 07:45:32 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

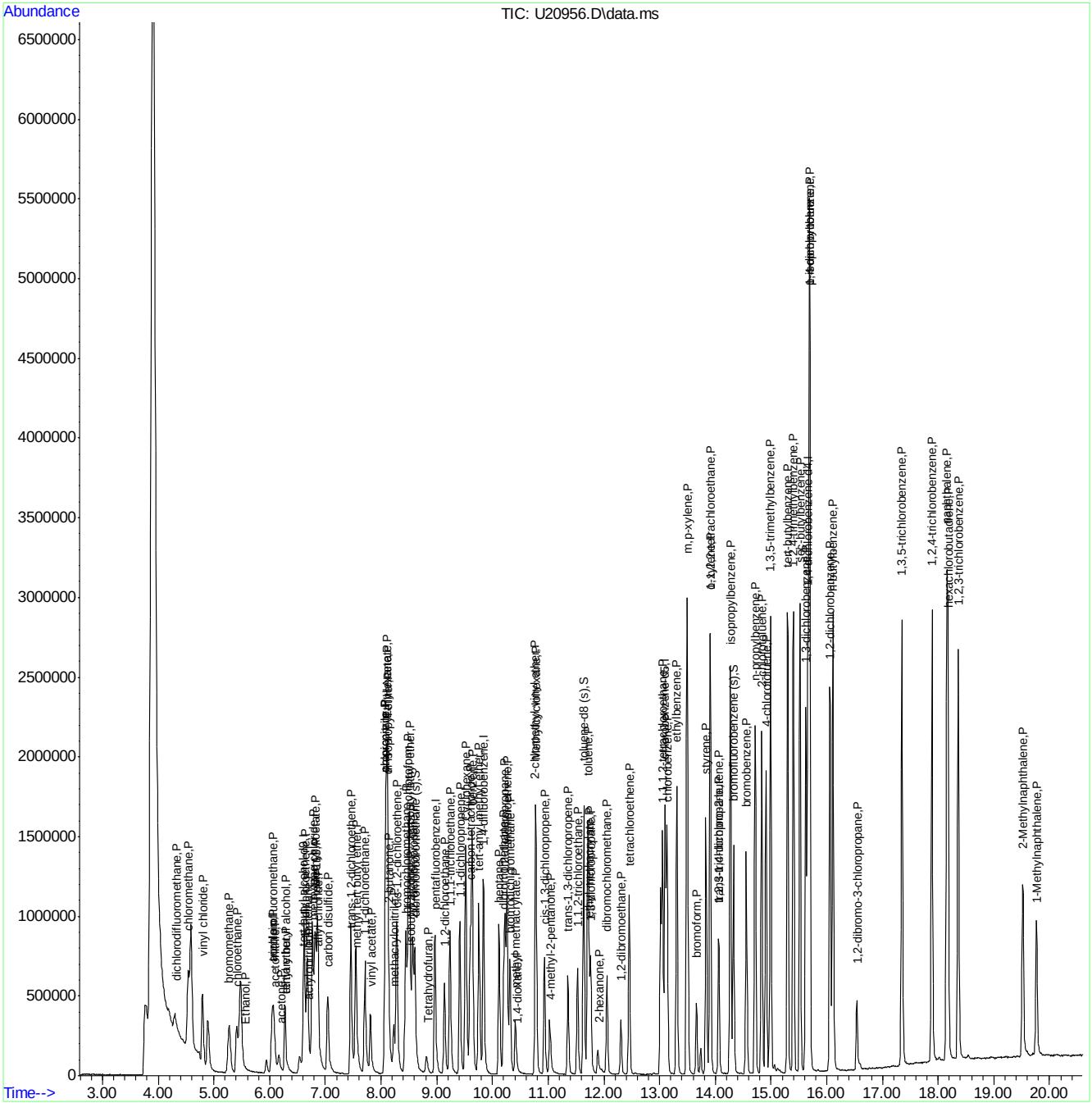
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
93) 1,3-dichlorobenzene	15.624	146	1034796	49.94	ppb		98
94) p-isopropyltoluene	15.694	119	2006307	50.50	ppb		95
95) 1,4-dichlorobenzene	15.691	146	1033109	47.47	ppb		99
96) 1,2-dichlorobenzene	16.060	146	1157770	51.51	ppb		96
97) n-butylbenzene	16.114	91	1715879	49.56	ppb		85
98) 1,2-dibromo-3-chloropr...	16.543	75	112120	48.65	ppb	#	75
99) 1,3,5-trichlorobenzene	17.352	180	983983	56.44	ug/L		95
100) 1,2,4-trichlorobenzene	17.891	180	993073	60.42	ppb		91
101) hexachlorobutadiene	18.180	225	451489	59.52	ppb		92
102) naphthalene	18.156	128	2464419	58.22	ppb		100
103) 2-Methylnaphthalene	19.525	142	718792	35.02	ug/L		98
104) 1-Methylnaphthalene	19.773	142	595244	35.34	ug/L		97
105) 1,2,3-trichlorobenzene	18.364	180	928804	61.99	ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20956.D
Acq On : 8 Jul 2014 7:42 pm
Operator : GaryK
Sample : mc31799-24msd
Misc : ms32230,msu937,,,,5,1
ALS Vial : 27 Sample Multiplier: 1

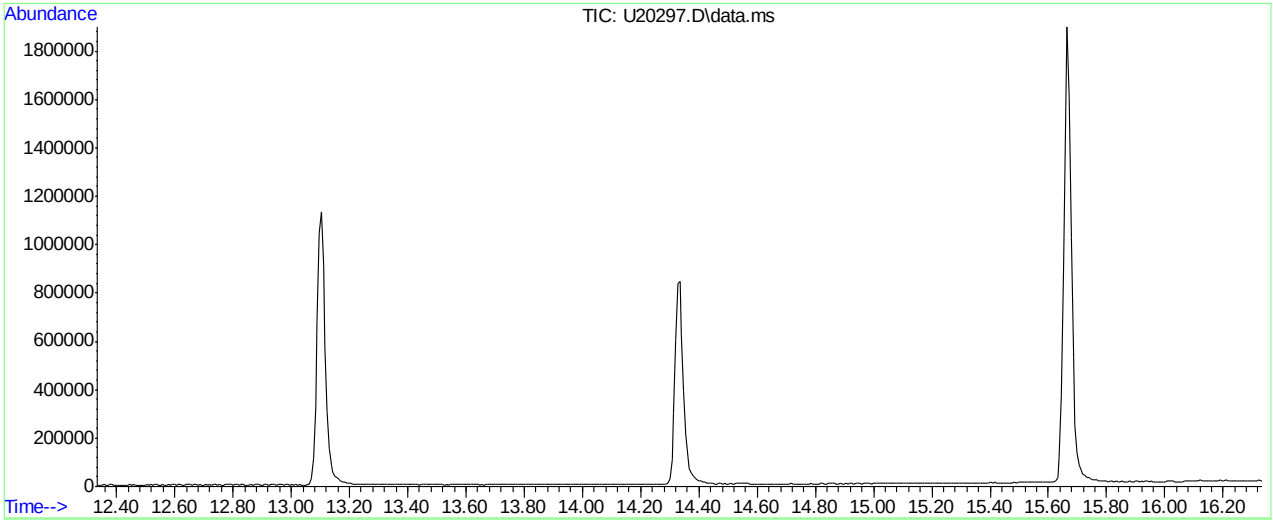
Quant Time: Jul 09 07:45:32 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration



SW-846 Method 8260

Data File : D:\msdchem\1\data\U140606\U20297.D Vial: 12
Acq On : 6 Jun 2014 4:42 pm Operator: garyk
Sample : bfb Inst : MSU
Misc : ms31928,msu915,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\msdchem\1\methods\U140606W.m (RTE Integrator)
Title : SW-846 Method 8260



Spectrum Information: Average of 14.327 to 14.340 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.8	36309	PASS
75	95	30	60	44.9	68549	PASS
95	95	100	100	100.0	152691	PASS
96	95	5	9	7.0	10624	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	88.4	134904	PASS
175	174	5	9	7.7	10440	PASS
176	174	95	101	95.7	129139	PASS
177	176	5	9	6.5	8438	PASS

U20297.D U140606W.m Mon Jun 09 11:36:19 2014

Average of 14.327 to 14.340 min.: U20297.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	1680	51.05	11102	67.00	517	78.90	4368
37.05	8382	52.00	460	68.00	14119	79.95	1238
38.05	7785	55.00	461	69.00	13850	80.90	4422
39.05	3110	56.00	2360	70.00	1011	81.90	992
42.10	90	57.00	5005	72.05	786	86.00	83
44.00	888	58.05	322	73.00	6374	86.95	6065
45.05	1840	60.00	1426	74.00	22907	88.00	6240
47.05	2611	61.00	7574	75.00	68549	90.90	574
47.95	1135	62.00	7722	76.05	5888	92.00	4315
49.00	7414	63.00	5611	76.95	785	93.00	5812
50.00	36309	64.00	545	78.00	666	94.00	16908

Average of 14.327 to 14.340 min.: U20297.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.00	152691	116.85	1032	141.95	198	160.90	159
95.95	10624	117.85	523	142.90	1911	170.70	67
97.05	379	118.90	865	143.90	70	171.90	88
103.90	630	127.95	728	145.00	141	172.20	130
104.90	306	128.85	312	145.85	172	173.90	134904
105.90	762	129.90	704	147.85	411	174.90	10440
106.70	98	130.95	239	148.85	174	175.90	129139
106.90	85	135.00	472	149.90	202	176.90	8438
110.90	67	136.90	351	154.95	498	177.95	282
114.90	155	139.80	76	156.90	356	181.00	92
115.90	564	140.90	1878	158.85	198	252.95	289

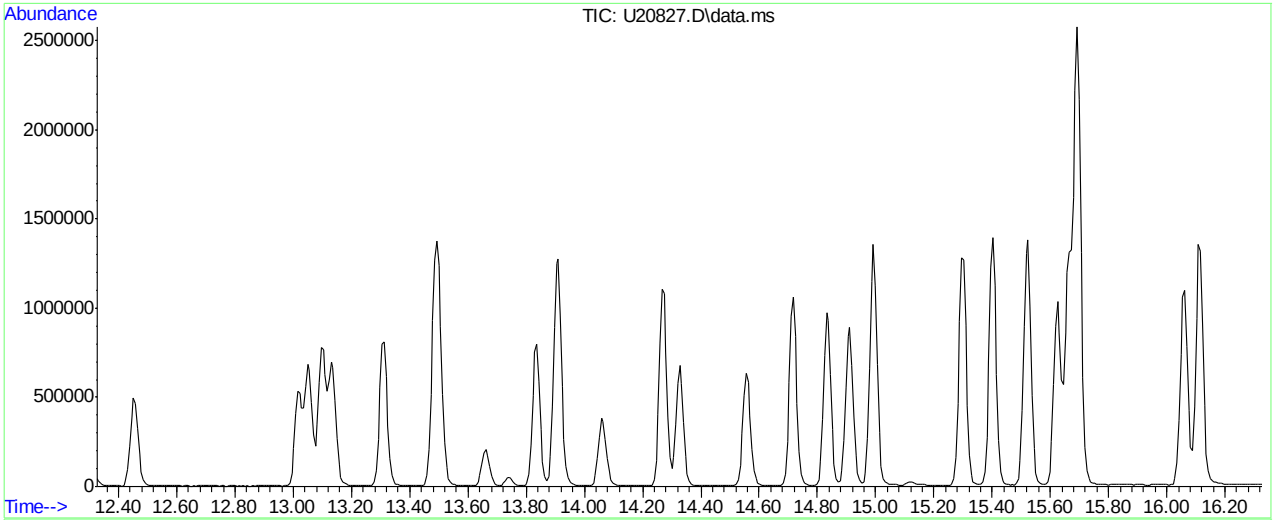
Average of 14.327 to 14.340 min.: U20297.D\data.ms
bfb
Modified:subtracted

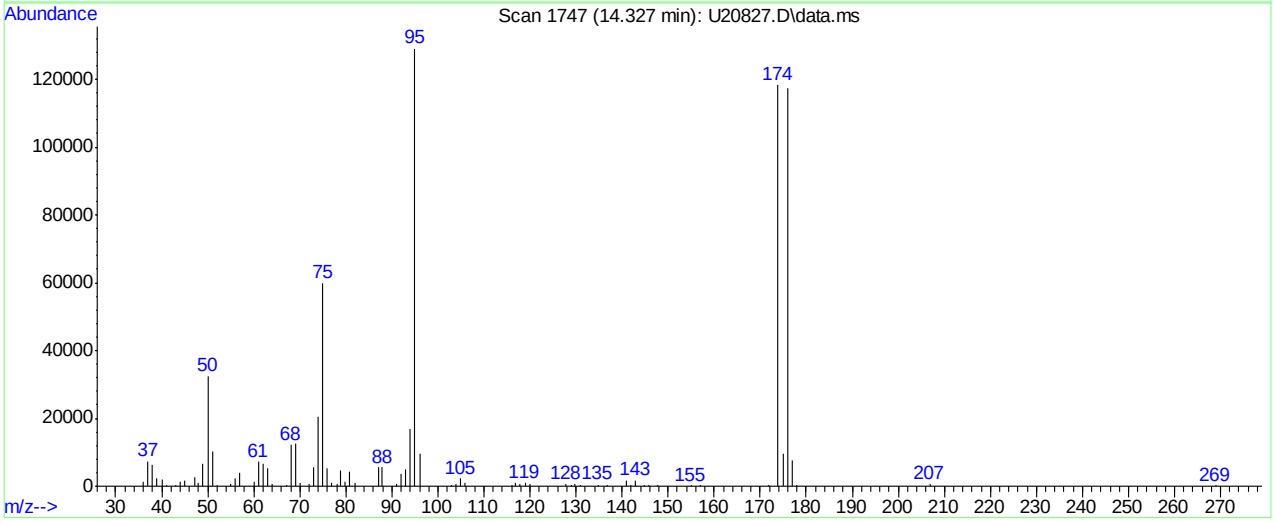
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
268.95	142						
270.10	81						
281.00	92						

SW-846 Method 8260

Data File : D:\msdchem\1\data\U140703\U20827.D Vial: 2
Acq On : 3 Jul 2014 8:26 am Operator: GaryK
Sample : bfb Inst : MSU
Misc : ms32206,msu934,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\msdchem\1\methods\U140606W.m (RTE Integrator)
Title : SW-846 Method 8260





Spectrum Information: Scan 1747

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.2	32528	PASS
75	95	30	60	46.4	59832	PASS
95	95	100	100	100.0	129080	PASS
96	95	5	9	7.5	9629	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	91.6	118264	PASS
175	174	5	9	8.0	9505	PASS
176	174	95	101	99.2	117272	PASS
177	176	5	9	6.6	7781	PASS

U20827.D U140606W.m Thu Jul 03 11:22:38 2014

Scan 1747 (14.327 min): U20827.D\data.ms
bfb

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1393	49.00	6601	63.90	580	78.00	565
37.00	7327	50.00	32528	67.10	464	78.90	4730
38.00	6279	51.00	10354	68.00	12206	79.90	1209
39.00	2313	52.00	417	69.00	12504	80.90	4361
40.00	1916	55.00	519	70.00	873	81.90	855
41.10	407	56.00	2310	71.90	630	87.00	5474
43.10	397	57.00	3984	73.00	5634	87.90	5500
44.00	1502	60.00	1213	74.00	20488	91.00	600
45.10	1680	61.00	7140	75.00	59832	92.00	3585
47.10	2790	62.00	6536	76.00	5411	93.00	5067
47.90	1127	63.00	5320	77.00	905	94.00	16704

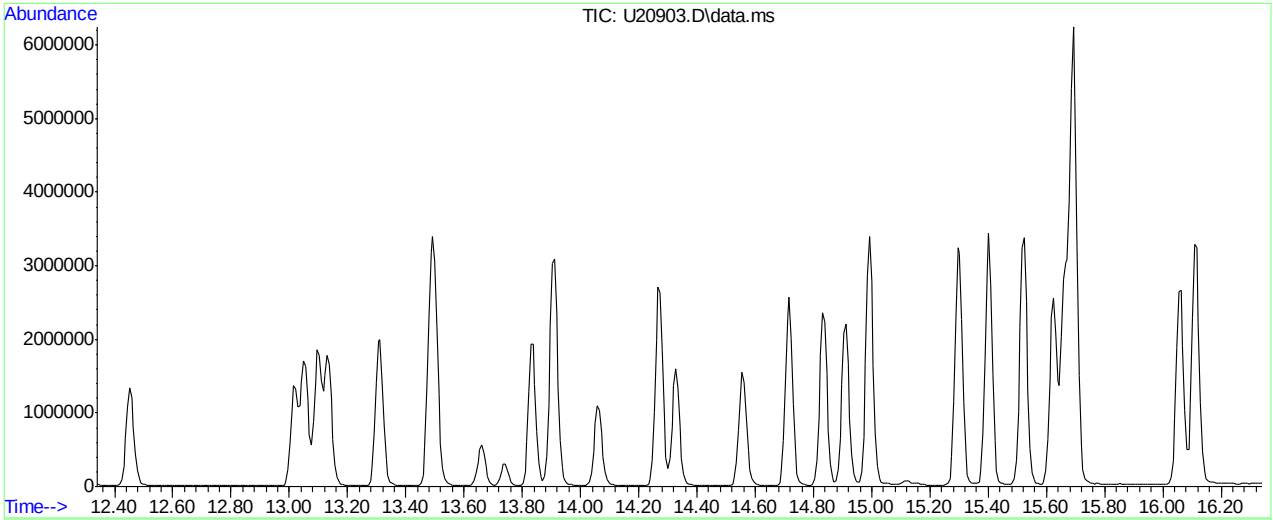
Scan 1747 (14.327 min): U20827.D\data.ms
bfb

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.00	129080	127.80	628	147.80	510		
96.00	9629	128.90	377	155.00	246		
102.90	314	129.80	514	156.90	217		
104.00	823	130.90	239	171.90	327		
105.00	2288	134.80	423	173.90	118264		
105.90	867	136.80	363	174.90	9505		
116.00	491	140.90	1596	175.90	117272		
116.90	925	141.90	301	176.90	7781		
117.90	548	142.90	1769	177.90	320		
118.90	962	144.90	205	206.90	568		
120.10	703	145.80	230	269.00	316		

SW-846 Method 8260

Data File : D:\msdchem\1\data\U140707\U20903.D Vial: 3
Acq On : 7 Jul 2014 9:45 am Operator: GaryK
Sample : bfb Inst : MSU
Misc : ms32230,msu936,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\msdchem\1\methods\U140606W.m (RTE Integrator)
Title : SW-846 Method 8260



Spectrum Information: Scan 1749

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.3	34152	PASS
75	95	30	60	45.8	64248	PASS
95	95	100	100	100.0	140416	PASS
96	95	5	9	6.9	9722	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	111.3	156288	PASS
175	174	5	9	6.5	10213	PASS
176	174	95	101	95.7	149568	PASS
177	176	5	9	6.5	9774	PASS

U20903.D U140606W.m Mon Jul 07 13:11:38 2014

Scan 1749 (14.340 min): U20903.D\data.ms
bfb

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1678	47.10	2649	62.00	6933	77.00	597
37.00	7920	48.00	1454	63.00	6089	78.00	771
38.00	7366	49.00	7501	64.00	409	78.90	5267
39.10	3342	50.00	34152	68.00	13911	80.00	1303
40.00	3997	51.00	10684	69.00	14205	80.90	5958
40.90	593	52.10	559	70.00	750	81.70	657
42.10	274	55.00	657	72.00	573	83.10	277
43.00	726	56.00	2247	73.00	5401	85.00	240
44.00	3558	57.00	4953	74.00	21888	87.00	5528
45.00	2015	60.00	1582	75.00	64248	88.00	7152
46.10	282	61.00	7662	76.00	5390	91.00	873

Scan 1749 (14.340 min): U20903.D\data.ms
bfb

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.00	4545	116.00	618	136.90	520	157.00	374
93.00	6700	116.90	1087	140.90	2393	158.90	488
94.00	18544	117.90	563	141.80	324	167.90	244
95.00	140416	119.00	1274	142.00	329	171.40	333
96.00	9722	120.00	833	142.80	2469	172.20	572
97.10	295	127.80	666	146.00	384	173.90	156288
102.90	301	128.90	349	147.00	228	174.90	10213
103.90	961	129.90	505	148.00	511	175.90	149568
105.00	3138	131.00	290	149.80	247	176.90	9774
105.90	1366	133.20	212	151.80	229	177.90	270
106.90	297	135.00	689	155.00	420	180.90	218

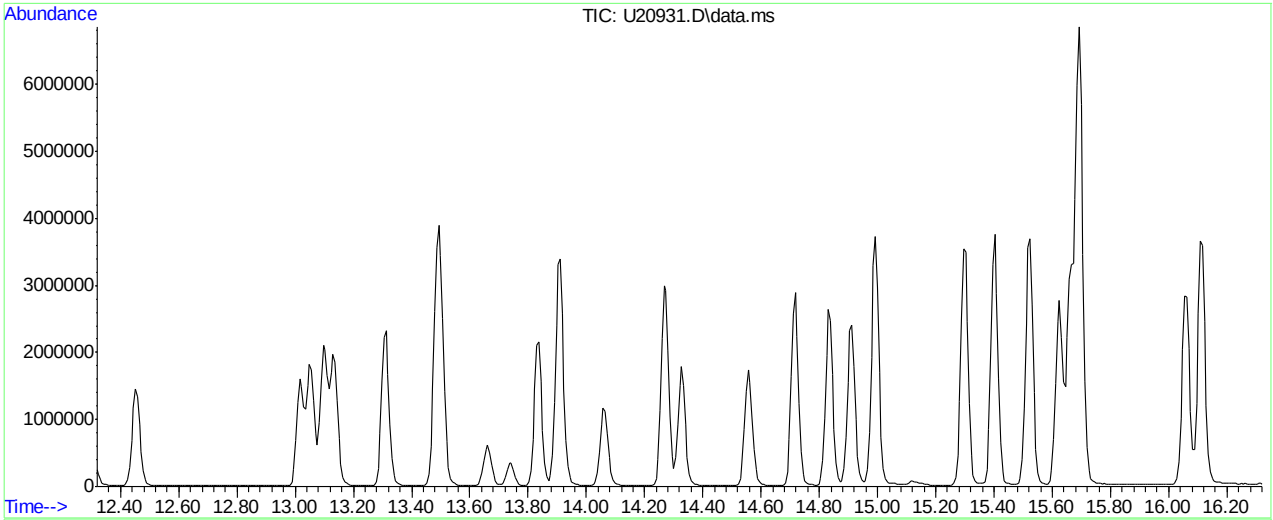
Scan 1749 (14.340 min): U20903.D\data.ms
bfb

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
193.10	462						
207.00	1713						
208.00	231						
253.10	466						
269.00	609						
281.00	340						
282.90	232						

SW-846 Method 8260

Data File : D:\msdchem\1\data\U140708\U20931.D Vial: 2
Acq On : 8 Jul 2014 8:23 am Operator: GaryK
Sample : bfb Inst : MSU
Misc : ms32230,msu937,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\msdchem\1\methods\U140606W.m (RTE Integrator)
Title : SW-846 Method 8260



Spectrum Information: Scan 1746

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.4	76648	PASS
75	95	30	60	48.4	140672	PASS
95	95	100	100	100.0	290560	PASS
96	95	5	9	7.2	21048	PASS
173	174	0.00	2	1.2	2817	PASS
174	95	50	150	80.5	233792	PASS
175	174	5	9	7.9	18456	PASS
176	174	95	101	98.6	230464	PASS
177	176	5	9	7.3	16880	PASS

U20931.D U140606W.m Tue Jul 08 10:10:47 2014

Scan 1746 (14.320 min): U20931.D\data.ms
bfb

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	3478	48.00	1939	59.00	231	71.10	417
37.10	17528	49.00	16640	60.00	3370	72.00	1594
38.10	15918	50.00	76648	61.00	17816	73.00	12450
39.10	7356	51.00	25832	62.00	15194	74.00	46248
40.00	4387	52.00	968	63.00	12571	75.00	140672
41.10	841	53.00	342	64.00	1354	76.00	12186
43.10	538	54.10	236	65.10	375	77.00	2277
44.00	4988	55.00	1553	67.10	997	78.00	1884
45.00	3492	56.00	5010	68.00	29816	78.90	8912
46.00	334	57.00	11141	69.00	28912	79.90	2285
47.00	6323	58.00	453	70.00	2711	80.90	8583

Scan 1746 (14.320 min): U20931.D\data.ms
bfb

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
81.90	1797	96.00	21048	112.90	278	129.90	1352
85.10	288	96.90	549	114.90	420	131.00	395
85.80	350	101.90	234	115.90	1398	135.00	1273
87.00	11345	103.00	975	116.90	2397	136.90	692
87.90	12036	103.90	1432	117.90	1689	139.70	249
89.10	251	105.10	9866	118.90	2097	140.80	3748
91.00	1498	105.90	2352	120.10	3199	141.90	366
92.00	7907	107.00	440	121.20	318	142.90	3148
93.00	11525	109.80	239	124.80	273	143.80	440
94.00	34136	110.80	433	127.90	1386	144.80	377
95.00	290560	111.90	369	128.80	419	146.00	337

Scan 1746 (14.320 min): U20931.D\data.ms
bfb

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
147.00	398	172.10	624	270.10	254		
147.80	856	172.90	2817				
149.00	372	173.90	233792				
151.90	220	175.00	18456				
152.90	286	175.90	230464				
153.90	220	176.90	16880				
154.90	994	177.80	348				
157.00	263	207.00	1574				
158.90	479	207.90	521				
160.90	353	253.10	375				
164.70	293	269.00	913				

Manual Integrations APPROVED (compounds with "m" flag)
Tomasz Torski
06/09/14 12:45

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20298.D
Acq On : 6 Jun 2014 5:09 pm
Operator : garyk
Sample : ic915-0.5
Misc : ms31928,msu915,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 09 10:24:30 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 10:21:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.610	65	257723	500.00	ppb	0.01
4) pentafluorobenzene	8.979	168	505755	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.847	114	828541	50.00	ppb	0.00
66) chlorobenzene-d5	13.105	82	344683	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.668	152	563093	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	0.000	113	0d	0.00	ppb	
Spiked Amount 50.000	Range 70 - 130		Recovery =	0.00%#		
60) toluene-d8 (s)	0.000	98	0d	0.00	ppb	
Spiked Amount 50.000	Range 70 - 130		Recovery =	0.00%#		
82) bromofluorobenzene (s)	0.000	95	0d	0.00	ppb	
Spiked Amount 50.000	Range 70 - 130		Recovery =	0.00%#		
Target Compounds						Qvalue
47) benzene	9.649	78	10765	0.57	ppb	97
51) trichloroethene	10.266	95	2906m	0.50	ppb	
59) cis-1,3-dichloropropene	10.954	75	2673	0.40	ppb	86
63) trans-1,3-dichloropropene	11.386	75	1912	0.36	ppb	87
67) tetrachloroethene	12.466	166	1978	0.42	ppb	80
69) dibromochloromethane	12.069	129	2367	0.48	ppb	99
75) m,p-xylene	13.532	106	8266	1.01	ppb	97
76) o-xylene	13.932	106	4453	0.49	ppb	93
84) 1,1,2,2-tetrachloroethane	13.935	83	2930	0.54	ppb	85

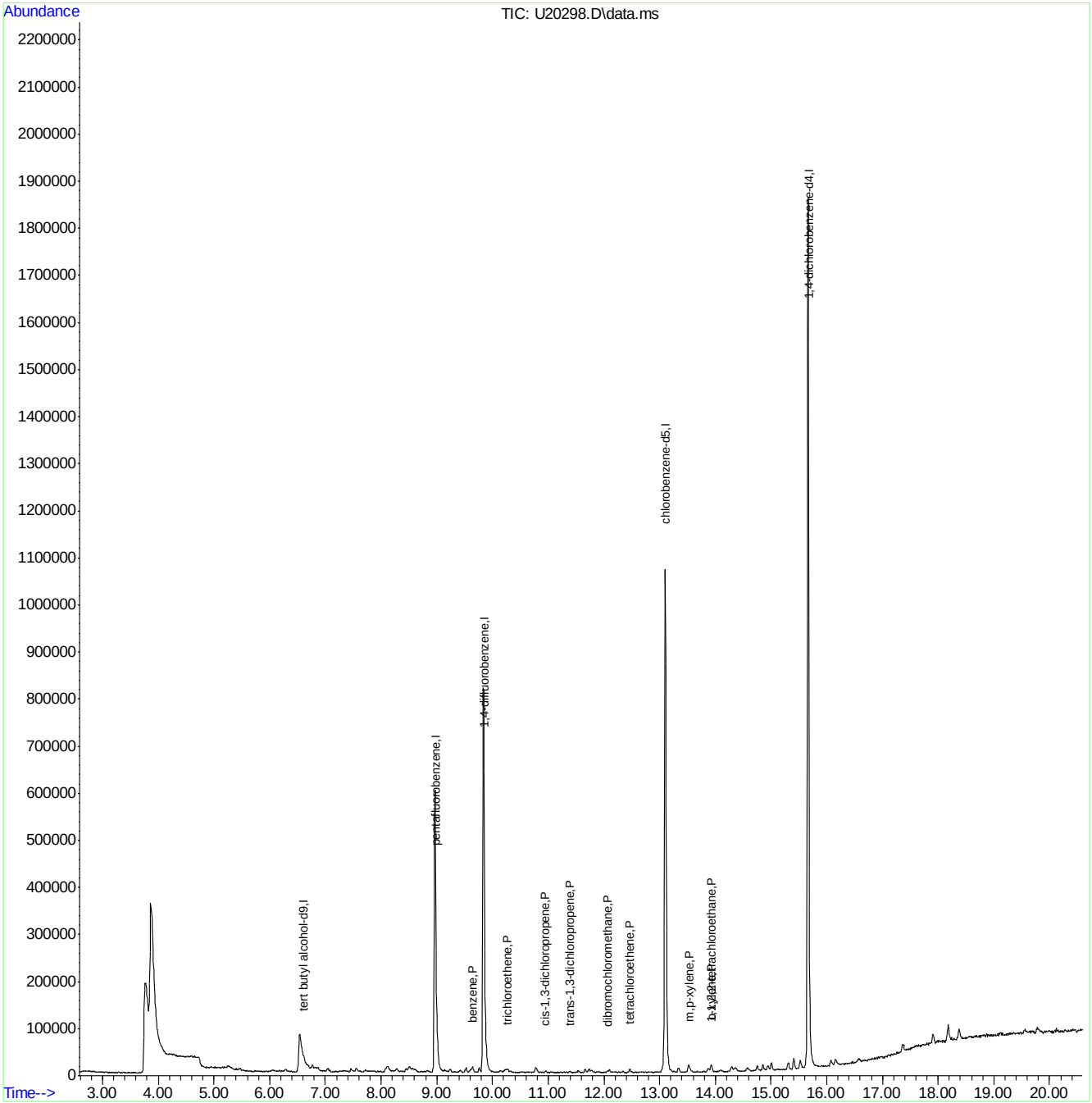
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.1
7

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20298.D
Acq On : 6 Jun 2014 5:09 pm
Operator : garyk
Sample : ic915-0.5
Misc : ms31928,msu915,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 09 10:24:30 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 10:21:48 2014
Response via : Initial Calibration



ACCUTEST LABORATORIES MC31799

Manual Integrations APPROVED (compounds with "m" flag)
Tomasz Torski 06/09/14 12:45

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20299.D
Acq On : 6 Jun 2014 5:37 pm
Operator : garyk
Sample : ic915-1
Misc : ms31928,msu915,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 09 10:30:54 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 10:21:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.604	65	241806	500.00	ppb		0.00
4) pentafluorobenzene	8.980	168	515055	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.847	114	839231	50.00	ppb		0.00
66) chlorobenzene-d5	13.105	82	343853	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.668	152	550974	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	0.000	113	0d	0.00	ppb		
Spiked Amount 50.000	Range 70 - 130		Recovery =	0.00%#			
60) toluene-d8 (s)	0.000	98	0d	0.00	ppb		
Spiked Amount 50.000	Range 70 - 130		Recovery =	0.00%#			
82) bromofluorobenzene (s)	0.000	95	0d	0.00	ppb		
Spiked Amount 50.000	Range 70 - 130		Recovery =	0.00%#			
Target Compounds							Qvalue
7) vinyl chloride	4.801	62	11183	1.10	ppb		96
12) trichlorofluoromethane	6.073	101	11613	1.06	ppb		92
15) 1,1-dichloroethene	6.630	96	6211	1.06	ppb	#	77
19) methyl tert butyl ether	7.569	73	17550	1.12	ppb		89
22) trans-1,2-dichloroethene	7.474	96	7625	1.17	ppb		89
33) 1,1-dichloroethane	7.720	63	11520	0.90	ppb		91
37) cis-1,2-dichloroethene	8.292	96	8379	1.20	ppb		83
39) chloroform	8.497	83	10995	1.02	ppb		91
42) 1,1,1-trichloroethane	9.242	97	8780	0.86	ppb		96
45) carbon tetrachloride	9.606	117	7367	0.81	ppb		95
47) benzene	9.648	78	21149	1.11	ppb		92
48) 1,2-dichloroethane	9.148	62	7853	1.04	ppb		88
51) trichloroethene	10.269	95	6020	1.02	ppb		80
54) bromodichloromethane	10.322	83	6739	1.00	ppb		93
59) cis-1,3-dichloropropene	10.953	75	6861	1.01	ppb		86
62) toluene	11.734	92	9276	0.86	ppb		80
63) trans-1,3-dichloropropene	11.382	75	4773	0.89	ppb		94
64) 1,1,2-trichloroethane	11.544	83	3217	1.04	ppb		94
67) tetrachloroethene	12.466	166	4273	0.91	ppb		84
69) dibromochloromethane	12.067	129	5418	1.09	ppb		88
72) chlorobenzene	13.140	112	11870	0.98	ppb		91
74) ethylbenzene	13.337	91	19428	1.01	ppb		90
75) m,p-xylene	13.522	106	15700	1.91	ppb		96
76) o-xylene	13.925	106	9228	1.01	ppb		97
78) bromoform	13.674	173	3893	1.13	ppb		98
84) 1,1,2,2-tetrachloroethane	13.931	83	5241	0.98	ppb		80
89) 1,3,5-trimethylbenzene	15.013	105	23450m	0.86	ppb		
91) 1,2,4-trimethylbenzene	15.409	105	25093m	0.91	ppb		
93) 1,3-dichlorobenzene	15.631	146	15580	0.98	ppb		99
95) 1,4-dichlorobenzene	15.695	146	16569	1.00	ppb		92
96) 1,2-dichlorobenzene	16.078	146	16651	0.97	ppb		83
102) naphthalene	18.179	128	35218m	1.08	ppb		

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20299.D
Acq On : 6 Jun 2014 5:37 pm
Operator : garyk
Sample : ic915-1
Misc : ms31928,msu915,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 09 10:30:54 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 10:21:48 2014
Response via : Initial Calibration

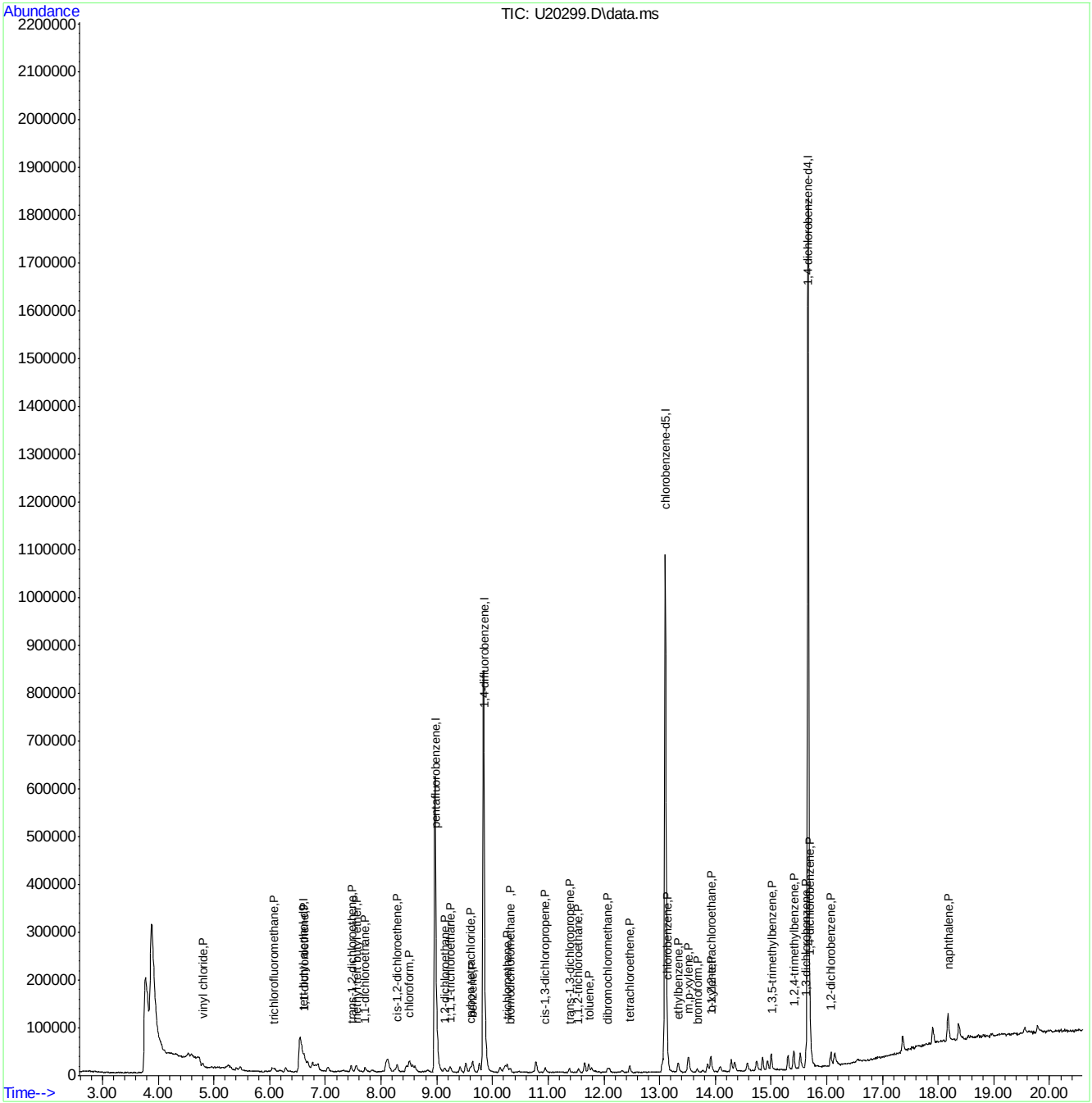
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20299.D
Acq On : 6 Jun 2014 5:37 pm
Operator : garyk
Sample : ic915-1
Misc : ms31928,msu915,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 09 10:30:54 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 10:21:48 2014
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Tomasz Torski 06/09/14 12:45

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20300.D
Acq On : 6 Jun 2014 6:04 pm
Operator : garyk
Sample : ic915-2
Misc : ms31928,msu915,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 09 11:01:23 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 10:21:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.607	65	255758	500.00	ppb	0.01
4) pentafluorobenzene	8.978	168	506182	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.846	114	843500	50.00	ppb	0.00
66) chlorobenzene-d5	13.104	82	349422	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.667	152	545650	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	0.000	113	0d	0.00	ppb	
Spiked Amount 50.000	Range 70 - 130		Recovery =	0.00%#		
60) toluene-d8 (s)	0.000	98	0d	0.00	ppb	
Spiked Amount 50.000	Range 70 - 130		Recovery =	0.00%#		
82) bromofluorobenzene (s)	0.000	95	0d	0.00	ppb	
Spiked Amount 50.000	Range 70 - 130		Recovery =	0.00%#		
Target Compounds						Qvalue
2) tertiary butyl alcohol	6.292	59	11002	20.41	ppb	66
3) Ethanol	5.613	45	27018m	376.27	ppb	
5) dichlorodifluoromethane	4.314	85	10819	1.95	ppb	95
6) chloromethane	4.540	50	31622	2.28	ppb	94
7) vinyl chloride	4.795	62	20963	2.11	ppb	97
8) bromomethane	5.263	96	12136	2.36	ppb	99
9) chloroethane	5.412	64	9660	2.12	ppb	96
12) trichlorofluoromethane	6.067	101	22262	2.06	ppb	95
15) 1,1-dichloroethene	6.628	96	12933	2.24	ppb	90
18) methylene chloride	6.780	84	14959	2.33	ppb	90
19) methyl tert butyl ether	7.567	73	33336	2.16	ppb	71
22) trans-1,2-dichloroethene	7.476	96	16231	2.54	ppb	88
28) di-isopropyl ether	8.136	45	51861	2.04	ppb	97
33) 1,1-dichloroethane	7.720	63	26394	2.10	ppb	97
34) tert-butyl ethyl ether	8.523	59	45336	2.04	ppb	95
37) cis-1,2-dichloroethene	8.296	96	16586	2.41	ppb	79
39) chloroform	8.496	83	22536	2.14	ppb	100
42) 1,1,1-trichloroethane	9.241	97	21334	2.13	ppb	97
45) carbon tetrachloride	9.606	117	19630	2.15	ppb	98
47) benzene	9.646	78	43253	2.26	ppb	95
48) 1,2-dichloroethane	9.155	62	17595	2.32	ppb	97
49) tert-amyl methyl ether	9.762	73	30778	2.06	ppb	95
51) trichloroethene	10.266	95	12722	2.15	ppb	85
52) 1,2-dichloropropane	10.236	63	12033	2.11	ppb	91
53) dibromomethane	10.207	93	6986	2.15	ppb	95
54) bromodichloromethane	10.320	83	13761	2.04	ppb	99
59) cis-1,3-dichloropropene	10.947	75	13898	2.03	ppb	96
62) toluene	11.728	92	22008	2.02	ppb	91
63) trans-1,3-dichloropropene	11.375	75	10524	1.96	ppb	98
64) 1,1,2-trichloroethane	11.538	83	6147	1.98	ppb	88
67) tetrachloroethene	12.462	166	11207	2.34	ppb	94
69) dibromochloromethane	12.064	129	11253	2.24	ppb	99
70) 1,2-dibromoethane	12.323	107	8505	2.25	ppb	90
72) chlorobenzene	13.139	112	27653	2.24	ppb	90

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20300.D
Acq On : 6 Jun 2014 6:04 pm
Operator : garyk
Sample : ic915-2
Misc : ms31928,msu915,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 09 11:01:23 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 10:21:48 2014
Response via : Initial Calibration

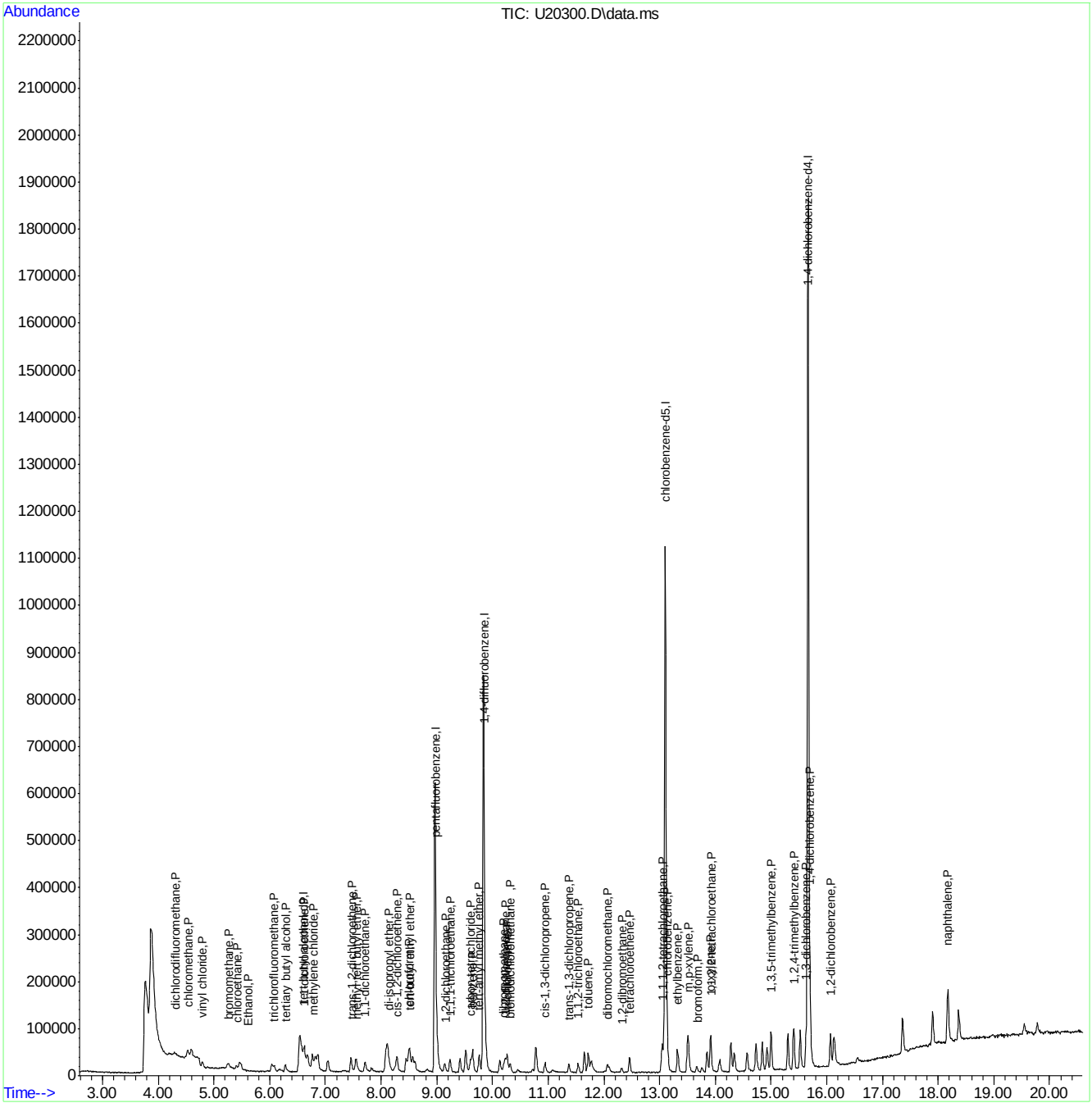
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73) 1,1,1,2-tetrachloroethane	13.056	131	13888	2.25	ppb	91
74) ethylbenzene	13.328	91	44964	2.30	ppb	94
75) m,p-xylene	13.512	106	36074	4.33	ppb	93
76) o-xylene	13.920	106	21243	2.29	ppb	83
78) bromoform	13.671	173	7588	2.17	ppb	96
84) 1,1,2,2-tetrachloroethane	13.924	83	11284	2.14	ppb	94
89) 1,3,5-trimethylbenzene	15.005	105	53966	2.00	ppb	84
91) 1,2,4-trimethylbenzene	15.409	105	56720	2.08	ppb	98
93) 1,3-dichlorobenzene	15.630	146	31798	2.01	ppb	97
95) 1,4-dichlorobenzene	15.694	146	36514	2.23	ppb	94
96) 1,2-dichlorobenzene	16.073	146	37169	2.18	ppb	94
102) naphthalene	18.173	128	67862m	2.10	ppb	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20300.D
Acq On : 6 Jun 2014 6:04 pm
Operator : garyk
Sample : ic915-2
Misc : ms31928,msu915,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 09 11:01:23 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 10:21:48 2014
Response via : Initial Calibration



ACCUTEST LABORATORIES MC31799

Manual Integrations APPROVED (compounds with "m" flag)
Tomasz Torski 06/09/14 12:45

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20301.D
Acq On : 6 Jun 2014 6:32 pm
Operator : garyk
Sample : ic915-5
Misc : ms31928,msu915,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 09 11:03:12 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 10:21:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.606	65	252422	500.00	ppb		0.00
4) pentafluorobenzene	8.979	168	511603	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.846	114	865559	50.00	ppb		0.00
66) chlorobenzene-d5	13.103	82	369240	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.666	152	564411	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.617	113	28858	5.16	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	10.32%#			
60) toluene-d8 (s)	11.649	98	84864	5.17	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	10.34%#			
82) bromofluorobenzene (s)	14.338	95	36087	5.35	ppb		0.01
Spiked Amount 50.000	Range 70 - 130		Recovery =	10.70%#			
Target Compounds							Qvalue
2) tertiary butyl alcohol	6.294	59	27755	52.16	ppb		94
3) Ethanol	5.626	45	51111m	721.22	ppb		
5) dichlorodifluoromethane	4.320	85	26059	4.66	ppb		99
6) chloromethane	4.553	50	76628	5.46	ppb		93
7) vinyl chloride	4.802	62	54014	5.37	ppb		93
8) bromomethane	5.266	96	27587	5.30	ppb		87
9) chloroethane	5.416	64	22876	4.98	ppb		95
10) ethyl ether	6.294	59	27755	5.18	ppb		95
11) acetonitrile	6.075	41	4793	5.50	ppb	#	38
12) trichlorofluoromethane	6.071	101	56927	5.21	ppb		99
13) freon-113	6.830	101	35235	4.84	ppb		88
14) acrolein	6.064	56	24112	25.66	ppb		92
15) 1,1-dichloroethene	6.640	96	33174	5.68	ppb		86
17) Methyl Acetate	6.827	43	28227	4.94	ppb	#	81
18) methylene chloride	6.781	84	34509	5.32	ppb		94
19) methyl tert butyl ether	7.569	73	78271	5.01	ppb		85
20) acrylonitrile	6.706	53	14870	5.13	ppb		100
21) allyl chloride	6.880	41	70094	5.04	ppb		92
22) trans-1,2-dichloroethene	7.473	96	34882	5.40	ppb		95
23) iodomethane	6.690	142	62604	5.01	ppb		99
24) carbon disulfide	7.056	76	94124	5.09	ppb		96
25) propionitrile	8.086	54	2721	4.66	ppb		100
26) vinyl acetate	7.838	43	46446m	5.15	ppb		
27) chloroprene	8.089	53	53253	4.97	ppb		97
28) di-isopropyl ether	8.133	45	129972	5.06	ppb		98
29) methacrylonitrile	8.253	41	18900	5.27	ppb		98
30) 2-butanone	8.152	72	3430	4.29	ppb	#	39
31) Ethyl Acetate	8.132	43	111905	5.01	ug/L		98
32) Hexane	8.113	41	54869	5.01	ppb	#	88
33) 1,1-dichloroethane	7.722	63	65462	5.16	ppb		91
34) tert-butyl ethyl ether	8.524	59	111187	4.95	ppb		98
35) isobutyl alcohol	8.505	43	41378	50.70	ppb		91
36) 2,2-dichloropropane	8.578	77	41064	5.13	ppb		90
37) cis-1,2-dichloroethene	8.297	96	37045	5.33	ppb		99

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20301.D
Acq On : 6 Jun 2014 6:32 pm
Operator : garyk
Sample : ic915-5
Misc : ms31928,msu915,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 09 11:03:12 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 10:21:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38) bromochloromethane	8.457	128	19133	5.11	ppb	#	81
39) chloroform	8.495	83	54403	5.10	ppb		100
41) Tetrahydrofuran	8.842	42	12437	6.36	ppb		90
42) 1,1,1-trichloroethane	9.243	97	50988	5.03	ppb		97
44) Cyclohexane	9.529	56	70412	5.16	ppb		88
45) carbon tetrachloride	9.607	117	44664	4.76	ppb		95
46) 1,1-dichloropropene	9.421	75	34831	4.98	ppb		88
47) benzene	9.646	78	102049	5.20	ppb		99
48) 1,2-dichloroethane	9.146	62	42048	5.39	ppb		99
49) tert-amyl methyl ether	9.764	73	76221	4.97	ppb		91
50) heptane	10.136	43	45099	5.26	ppb	#	56
51) trichloroethene	10.266	95	31043	5.12	ppb		77
52) 1,2-dichloropropane	10.235	63	30174	5.16	ppb		98
53) dibromomethane	10.207	93	17572	5.27	ppb		95
54) bromodichloromethane	10.321	83	33938	4.90	ppb		93
55) Methylcyclohexane	10.782	83	47652	4.91	ppb		94
56) 2-chloroethyl vinyl ether	10.719	63	12864	5.11	ppb		96
57) methyl methacrylate	10.457	69	10980	5.15	ppb		87
58) 1,4-dioxane	10.440	88	724m	16.35	ppb		
59) cis-1,3-dichloropropene	10.944	75	35478	5.05	ppb		92
61) 4-methyl-2-pentanone	11.093	43	30423m	5.05	ppb		
62) toluene	11.722	92	55295	4.94	ppb		100
63) trans-1,3-dichloropropene	11.369	75	28494	5.18	ppb		95
64) 1,1,2-trichloroethane	11.536	83	16751	5.26	ppb		99
65) ethyl methacrylate	11.781	69	23473	5.11	ppb	#	1
67) tetrachloroethene	12.460	166	28178	5.56	ppb		96
68) 1,3-dichloropropane	11.774	76	29494	5.55	ppb		93
69) dibromochloromethane	12.062	129	28635	5.39	ppb		96
70) 1,2-dibromoethane	12.315	107	22710	5.69	ppb		96
71) 2-hexanone	11.994	43	22613m	4.95	ppb		
72) chlorobenzene	13.138	112	71379	5.47	ppb		87
73) 1,1,1,2-tetrachloroethane	13.056	131	35681	5.46	ppb		94
74) ethylbenzene	13.321	91	110498	5.34	ppb		89
75) m,p-xylene	13.504	106	93211	10.59	ppb		84
76) o-xylene	13.914	106	52726	5.37	ppb		95
77) styrene	13.848	104	72689	5.38	ppb		95
78) bromoform	13.668	173	18934	5.12	ppb		98
79) trans-1,4-dichloro-2-b...	14.077	53	9713	5.46	ppb		96
81) isopropylbenzene	14.280	105	135998	4.85	ppb		97
83) bromobenzene	14.569	156	35593	4.90	ppb	#	78
84) 1,1,2,2-tetrachloroethane	13.920	83	28400	5.21	ppb		96
85) 1,2,3-trichloropropane	14.073	75	32511	5.04	ppb		96
86) n-propylbenzene	14.727	91	151558	5.02	ppb		94
87) 2-chlorotoluene	14.840	91	96572	5.07	ppb		82
88) 4-chlorotoluene	14.921	91	97989	5.17	ppb		89
89) 1,3,5-trimethylbenzene	15.001	105	134955	4.83	ppb		95
90) tert-butylbenzene	15.303	91	68711	4.58	ppb		84
91) 1,2,4-trimethylbenzene	15.406	105	136830	4.86	ppb		100
92) sec-butylbenzene	15.527	105	171193	4.78	ppb		95
93) 1,3-dichlorobenzene	15.628	146	81426	4.98	ppb		94

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20301.D
Acq On : 6 Jun 2014 6:32 pm
Operator : garyk
Sample : ic915-5
Misc : ms31928,msu915,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 09 11:03:12 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 10:21:48 2014
Response via : Initial Calibration

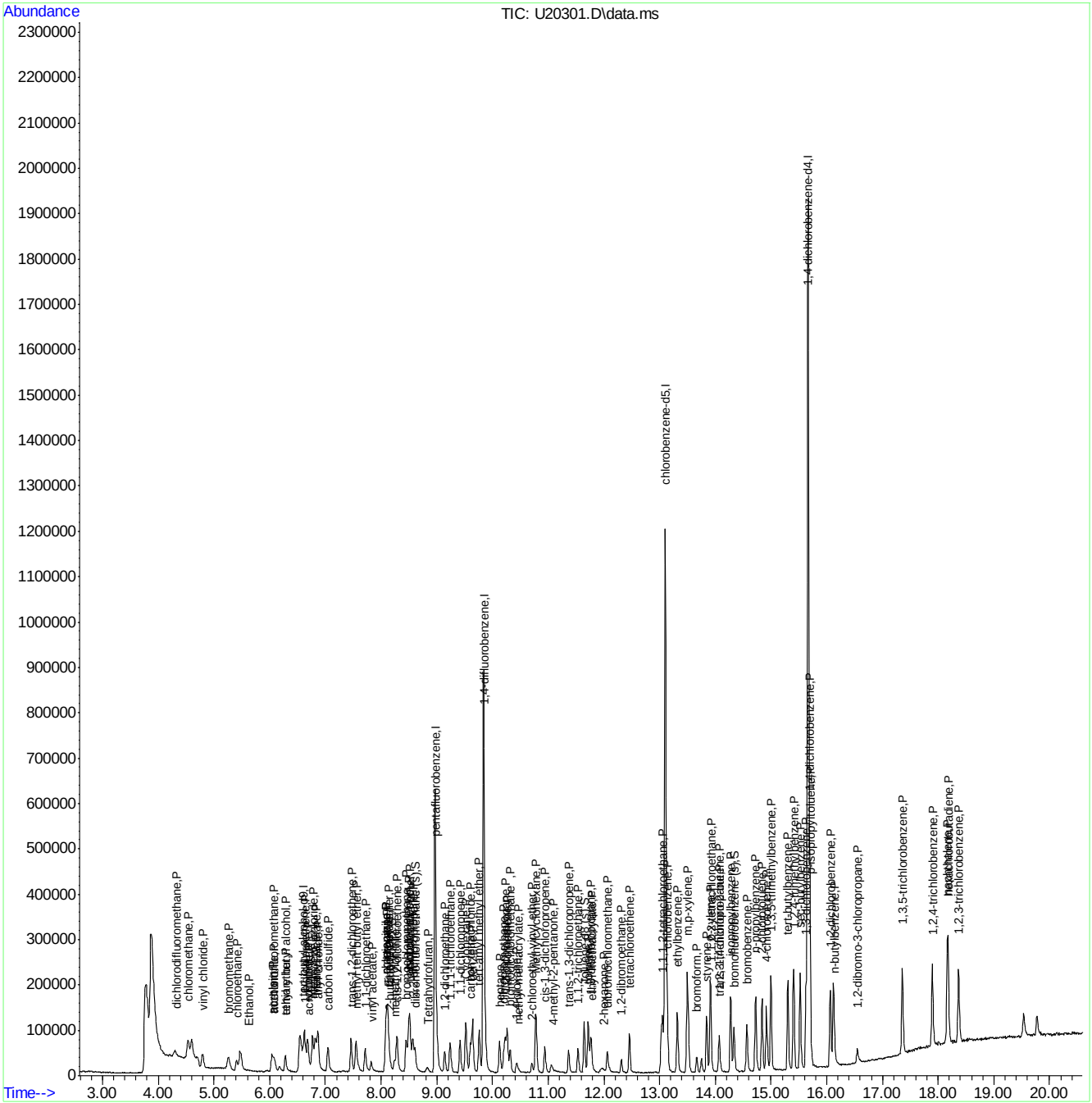
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) p-isopropyltoluene	15.704	119	155397	4.82	ppb	93
95) 1,4-dichlorobenzene	15.694	146	87514	5.17	ppb	100
96) 1,2-dichlorobenzene	16.068	146	89132	5.05	ppb	98
97) n-butylbenzene	16.135	91	142225	5.12	ppb	86
98) 1,2-dibromo-3-chloropr...	16.557	75	10405	5.99	ppb	77
99) 1,3,5-trichlorobenzene	17.361	180	70093	4.97	ug/L	98
100) 1,2,4-trichlorobenzene	17.901	180	66240	4.99	ppb	93
101) hexachlorobutadiene	18.183	225	32767	5.51	ppb	96
102) naphthalene	18.168	128	167331	5.02	ppb	100
105) 1,2,3-trichlorobenzene	18.371	180	61005	5.10	ppb	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20301.D
Acq On : 6 Jun 2014 6:32 pm
Operator : garyk
Sample : ic915-5
Misc : ms31928,msu915,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 09 11:03:12 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 10:21:48 2014
Response via : Initial Calibration



Manual Integrations APPROVED
(compounds with "m" flag)
Tomasz Torski
06/09/14 12:45

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20302.D
Acq On : 6 Jun 2014 6:59 pm
Operator : garyk
Sample : ic915-10
Misc : ms31928,msu915,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 09 11:04:38 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 10:21:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.608	65	263542	500.00	ppb		0.01
4) pentafluorobenzene	8.977	168	519049	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.845	114	860274	50.00	ppb		0.00
66) chlorobenzene-d5	13.102	82	369102	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.665	152	560509	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.615	113	59093	10.42	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 20.84%#				
60) toluene-d8 (s)	11.645	98	167383	10.27	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 20.54%#				
82) bromofluorobenzene (s)	14.334	95	71289	10.65	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 21.30%#				
Target Compounds							Qvalue
2) tertiary butyl alcohol	6.291	59	55713	100.29	ppb		94
3) Ethanol	5.626	45	94595m	1278.49	ppb		
5) dichlorodifluoromethane	4.324	85	54563	9.61	ppb		88
6) chloromethane	4.550	50	147747	10.37	ppb		99
7) vinyl chloride	4.803	62	104178	10.21	ppb		98
8) bromomethane	5.270	96	54568	10.34	ppb		98
9) chloroethane	5.416	64	46388	9.95	ppb		91
10) ethyl ether	6.291	59	55713	10.25	ppb		85
11) acetonitrile	6.096	41	10137	11.48	ppb	#	41
12) trichlorofluoromethane	6.070	101	112557	10.15	ppb		95
13) freon-113	6.831	101	73444	9.95	ppb		91
14) acrolein	6.066	56	50409	52.87	ppb		92
15) 1,1-dichloroethene	6.633	96	62308	10.51	ppb		94
16) acetone	6.184	58	13968m	10.33	ppb		
17) Methyl Acetate	6.816	43	53781m	9.28	ppb		
18) methylene chloride	6.780	84	67049	10.18	ppb		89
19) methyl tert butyl ether	7.567	73	158545	10.00	ppb		89
20) acrylonitrile	6.701	53	29814	10.14	ppb		79
21) allyl chloride	6.878	41	139831	9.92	ppb		96
22) trans-1,2-dichloroethene	7.472	96	67871	10.35	ppb		98
23) iodomethane	6.688	142	125745	9.92	ppb		97
24) carbon disulfide	7.054	76	188356	10.05	ppb		99
25) propionitrile	8.086	54	6574	11.09	ppb		100
26) vinyl acetate	7.832	43	82678m	9.03	ppb		
27) chloroprene	8.086	53	109219	10.05	ppb		95
28) di-isopropyl ether	8.129	45	256914	9.85	ppb		94
29) methacrylonitrile	8.252	41	38126	10.47	ppb		96
30) 2-butanone	8.145	72	7277	8.98	ppb	#	65
31) Ethyl Acetate	8.125	43	223755	9.87	ug/L		99
32) Hexane	8.109	41	112249	10.10	ppb	#	92
33) 1,1-dichloroethane	7.720	63	130759	10.16	ppb		97
34) tert-butyl ethyl ether	8.522	59	221996	9.74	ppb		97
35) isobutyl alcohol	8.547	43	42643	51.50	ppb	#	34
36) 2,2-dichloropropane	8.576	77	80601	9.92	ppb		89

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20302.D
Acq On : 6 Jun 2014 6:59 pm
Operator : garyk
Sample : ic915-10
Misc : ms31928,msu915,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 09 11:04:38 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 10:21:48 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	cis-1,2-dichloroethene	8.294	96	73562	10.44	ppb		95
38)	bromochloromethane	8.455	128	37911	9.97	ppb	#	83
39)	chloroform	8.494	83	108797	10.06	ppb		98
41)	Tetrahydrofuran	8.842	42	22804	11.50	ppb		95
42)	1,1,1-trichloroethane	9.243	97	100990	9.82	ppb		96
44)	Cyclohexane	9.527	56	142169	10.48	ppb		89
45)	carbon tetrachloride	9.607	117	93212	9.99	ppb		100
46)	1,1-dichloropropene	9.420	75	73291	10.54	ppb		92
47)	benzene	9.644	78	202644	10.39	ppb		100
48)	1,2-dichloroethane	9.145	62	80066	10.33	ppb		99
49)	tert-amyl methyl ether	9.772	73	162011	10.63	ppb		90
50)	heptane	10.129	43	91420	10.73	ppb	#	61
51)	trichloroethene	10.265	95	62895	10.43	ppb		78
52)	1,2-dichloropropane	10.232	63	58044	9.99	ppb		99
53)	dibromomethane	10.206	93	34712	10.47	ppb		98
54)	bromodichloromethane	10.319	83	68699	9.98	ppb		96
55)	Methylcyclohexane	10.781	83	99627	10.33	ppb		94
56)	2-chloroethyl vinyl ether	10.711	63	24555	9.81	ppb		94
57)	methyl methacrylate	10.439	69	20974	9.89	ppb		83
58)	1,4-dioxane	10.454	88	2472m	56.18	ppb		
59)	cis-1,3-dichloropropene	10.941	75	68056	9.75	ppb		89
61)	4-methyl-2-pentanone	11.066	43	58821m	9.82	ppb		
62)	toluene	11.718	92	108592	9.76	ppb		92
63)	trans-1,3-dichloropropene	11.366	75	53873	9.85	ppb		97
64)	1,1,2-trichloroethane	11.533	83	30892	9.75	ppb		90
65)	ethyl methacrylate	11.762	69	43237	9.48	ppb	#	1
67)	tetrachloroethene	12.459	166	55822	11.02	ppb		92
68)	1,3-dichloropropane	11.770	76	56695	10.68	ppb		85
69)	dibromochloromethane	12.060	129	55825	10.51	ppb		91
70)	1,2-dibromoethane	12.312	107	42720	10.71	ppb		97
71)	2-hexanone	11.960	43	43865m	9.61	ppb		
72)	chlorobenzene	13.137	112	137648	10.55	ppb		89
73)	1,1,1,2-tetrachloroethane	13.056	131	69074	10.58	ppb		97
74)	ethylbenzene	13.317	91	221307	10.70	ppb		92
75)	m,p-xylene	13.500	106	186519	21.19	ppb		85
76)	o-xylene	13.911	106	103118	10.51	ppb		86
77)	styrene	13.844	104	143530	10.63	ppb		98
78)	bromoform	13.666	173	38455	10.39	ppb		100
79)	trans-1,4-dichloro-2-b...	14.072	53	17576	9.88	ppb	#	82
81)	isopropylbenzene	14.277	105	276070	9.92	ppb		98
83)	bromobenzene	14.565	156	70416	9.77	ppb	#	82
84)	1,1,2,2-tetrachloroethane	13.918	83	54843	10.12	ppb		98
85)	1,2,3-trichloropropane	14.069	75	64803	10.12	ppb		98
86)	n-propylbenzene	14.722	91	301592	10.06	ppb		92
87)	2-chlorotoluene	14.837	91	190996	10.10	ppb		84
88)	4-chlorotoluene	14.917	91	189053	10.05	ppb		86
89)	1,3,5-trimethylbenzene	14.998	105	276222	9.95	ppb		97
90)	tert-butylbenzene	15.302	91	141682	9.50	ppb		90
91)	1,2,4-trimethylbenzene	15.405	105	273975	9.79	ppb		98
92)	sec-butylbenzene	15.525	105	347300	9.77	ppb		93

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20302.D
Acq On : 6 Jun 2014 6:59 pm
Operator : garyk
Sample : ic915-10
Misc : ms31928,msu915,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 09 11:04:38 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 10:21:48 2014
Response via : Initial Calibration

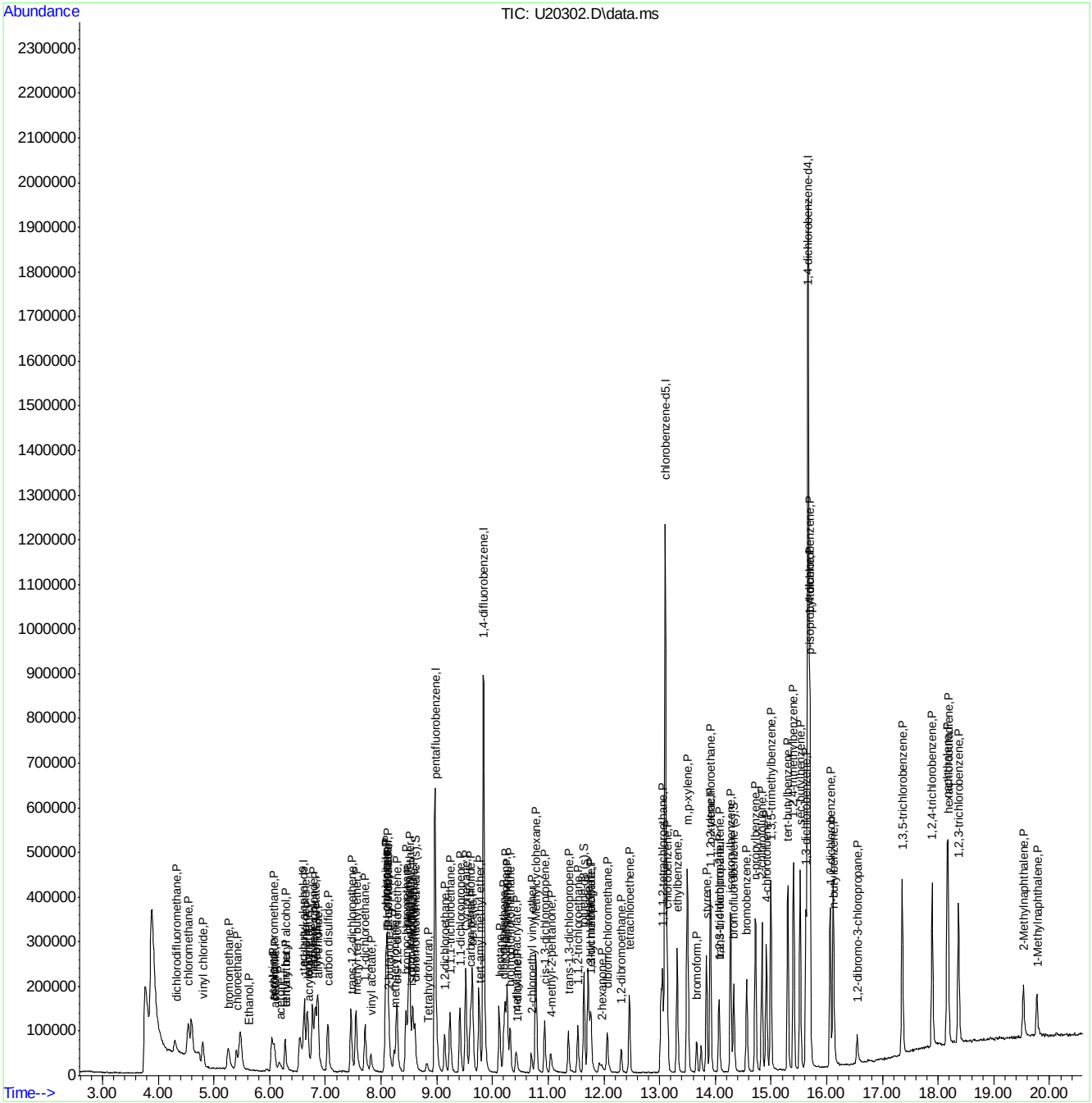
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
93) 1,3-dichlorobenzene	15.627	146	158982	9.78	ppb		97
94) p-isopropyltoluene	15.701	119	318512	9.95	ppb		93
95) 1,4-dichlorobenzene	15.693	146	169311	10.06	ppb		98
96) 1,2-dichlorobenzene	16.065	146	176429	10.06	ppb		95
97) n-butylbenzene	16.126	91	280513	10.17	ppb		83
98) 1,2-dibromo-3-chloropr...	16.559	75	19604	11.36	ppb	#	77
99) 1,3,5-trichlorobenzene	17.358	180	143401	10.23	ug/L		95
100) 1,2,4-trichlorobenzene	17.898	180	133919	10.15	ppb		94
101) hexachlorobutadiene	18.182	225	65489	11.08	ppb		98
102) naphthalene	18.164	128	333171	10.06	ppb		100
103) 2-Methylnaphthalene	19.541	142	84653	5.08	ug/L		98
104) 1-Methylnaphthalene	19.783	142	68664	5.36	ug/L		98
105) 1,2,3-trichlorobenzene	18.370	180	122156	10.29	ppb		94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20302.D
Acq On : 6 Jun 2014 6:59 pm
Operator : garyk
Sample : ic915-10
Misc : ms31928,msu915,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 09 11:04:38 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 10:21:48 2014
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Tomasz Torski
06/09/14 12:45

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20303.D
Acq On : 6 Jun 2014 7:26 pm
Operator : garyk
Sample : ic915-25
Misc : ms31928,msu915,,,,5,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 09 11:05:36 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 10:21:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.608	65	257726	500.00	ppb		0.01
4) pentafluorobenzene	8.977	168	504288	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.844	114	856336	50.00	ppb		0.00
66) chlorobenzene-d5	13.100	82	386923	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.664	152	571549	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.615	113	137051	24.87	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 49.74%#				
60) toluene-d8 (s)	11.642	98	403951	24.89	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 49.78%#				
82) bromofluorobenzene (s)	14.330	95	172142	25.22	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 50.44%#				
Target Compounds							Qvalue
2) tertiary butyl alcohol	6.292	59	129074	237.60	ppb		92
3) Ethanol	5.620	45	195935m	2707.91	ppb		
5) dichlorodifluoromethane	4.324	85	135765	24.61	ppb		94
6) chloromethane	4.556	50	350894	25.36	ppb		99
7) vinyl chloride	4.807	62	249231	25.14	ppb		93
8) bromomethane	5.273	96	130070	25.36	ppb		91
9) chloroethane	5.420	64	112794	24.90	ppb		94
10) ethyl ether	6.292	59	129074	24.44	ppb		91
11) acetonitrile	6.097	41	23783m	27.71	ppb		
12) trichlorofluoromethane	6.072	101	264716	24.58	ppb		99
13) freon-113	6.833	101	172609	24.07	ppb		90
14) acrolein	6.071	56	119319	128.82	ppb		98
15) 1,1-dichloroethene	6.638	96	145126	25.21	ppb		95
16) acetone	6.206	58	38466	29.29	ppb	#	85
17) Methyl Acetate	6.825	43	137828	24.48	ppb	#	89
18) methylene chloride	6.781	84	152002	23.75	ppb		89
19) methyl tert butyl ether	7.566	73	369736	23.99	ppb		92
20) acrylonitrile	6.705	53	71364	24.97	ppb		93
21) allyl chloride	6.874	41	323244	23.60	ppb		94
22) trans-1,2-dichloroethene	7.469	96	154543	24.27	ppb		96
23) iodomethane	6.691	142	297264	24.14	ppb		96
24) carbon disulfide	7.056	76	442709	24.30	ppb		97
25) propionitrile	8.085	54	13891	24.12	ppb		100
26) vinyl acetate	7.827	43	222064	24.96	ppb		98
27) chloroprene	8.086	53	257749	24.41	ppb		91
28) di-isopropyl ether	8.126	45	608871	24.03	ppb		91
29) methacrylonitrile	8.244	41	86142	24.36	ppb		98
30) 2-butanone	8.139	72	18165	23.07	ppb	#	75
31) Ethyl Acetate	8.122	43	531298	24.13	ug/L		98
32) Hexane	8.108	41	261149	24.19	ppb	#	86
33) 1,1-dichloroethane	7.720	63	300561	24.03	ppb		98
34) tert-butyl ethyl ether	8.522	59	534322	24.12	ppb		98
35) isobutyl alcohol	8.540	43	98775	122.78	ppb		92
36) 2,2-dichloropropane	8.578	77	192393	24.38	ppb		90

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20303.D
Acq On : 6 Jun 2014 7:26 pm
Operator : garyk
Sample : ic915-25
Misc : ms31928,msu915,,,,5,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 09 11:05:36 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 10:21:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) cis-1,2-dichloroethene	8.291	96	167386	24.45	ppb		97
38) bromochloromethane	8.455	128	89923	24.35	ppb		88
39) chloroform	8.494	83	256443	24.40	ppb		98
41) Tetrahydrofuran	8.842	42	49792	25.84	ppb		93
42) 1,1,1-trichloroethane	9.244	97	242057	24.22	ppb		95
44) Cyclohexane	9.527	56	332185	24.60	ppb		89
45) carbon tetrachloride	9.607	117	224026	24.12	ppb		97
46) 1,1-dichloropropene	9.419	75	169733	24.53	ppb		91
47) benzene	9.643	78	476732	24.56	ppb		94
48) 1,2-dichloroethane	9.144	62	190873	24.74	ppb		99
49) tert-amyl methyl ether	9.768	73	378931	24.97	ppb		93
50) heptane	10.125	43	209819	24.73	ppb	#	56
51) trichloroethene	10.263	95	146587	24.43	ppb		72
52) 1,2-dichloropropane	10.231	63	140311	24.25	ppb		100
53) dibromomethane	10.205	93	81026	24.56	ppb		95
54) bromodichloromethane	10.317	83	163627	23.89	ppb		98
55) Methylcyclohexane	10.780	83	235658	24.55	ppb		93
56) 2-chloroethyl vinyl ether	10.704	63	61831	24.81	ppb		96
57) methyl methacrylate	10.428	69	50811	24.08	ppb		94
58) 1,4-dioxane	10.454	88	4414m	100.78	ppb		
59) cis-1,3-dichloropropene	10.938	75	163880	23.59	ppb		89
61) 4-methyl-2-pentanone	11.057	43	144809	24.29	ppb		95
62) toluene	11.714	92	264728	23.91	ppb		99
63) trans-1,3-dichloropropene	11.361	75	130253	23.92	ppb		96
64) 1,1,2-trichloroethane	11.532	83	76559	24.28	ppb		96
65) ethyl methacrylate	11.749	69	110307	24.29	ppb	#	1
67) tetrachloroethene	12.456	166	128972	24.30	ppb		96
68) 1,3-dichloropropane	11.767	76	138158	24.83	ppb		90
69) dibromochloromethane	12.057	129	134872	24.22	ppb		99
70) 1,2-dibromoethane	12.309	107	105286	25.19	ppb		98
71) 2-hexanone	11.929	43	117164	24.48	ppb		92
72) chlorobenzene	13.136	112	336396	24.60	ppb		87
73) 1,1,1,2-tetrachloroethane	13.055	131	168167	24.57	ppb		97
74) ethylbenzene	13.312	91	540929	24.95	ppb		93
75) m,p-xylene	13.496	106	452965	49.10	ppb		84
76) o-xylene	13.909	106	258540	25.13	ppb		85
77) styrene	13.836	104	344394	24.32	ppb		99
78) bromoform	13.663	173	94190	24.28	ppb		100
79) trans-1,4-dichloro-2-b...	14.065	53	46946	25.18	ppb		96
81) isopropylbenzene	14.272	105	678794	23.92	ppb		97
83) bromobenzene	14.561	156	176539	24.02	ppb	#	80
84) 1,1,2,2-tetrachloroethane	13.915	83	134992	24.43	ppb		96
85) 1,2,3-trichloropropane	14.065	75	157198	24.07	ppb		98
86) n-propylbenzene	14.718	91	743318	24.32	ppb		91
87) 2-chlorotoluene	14.835	91	468419	24.29	ppb		83
88) 4-chlorotoluene	14.912	91	455208	23.72	ppb		86
89) 1,3,5-trimethylbenzene	14.995	105	667036	23.56	ppb		96
90) tert-butylbenzene	15.300	91	354779	23.33	ppb		84
91) 1,2,4-trimethylbenzene	15.403	105	679382	23.82	ppb		98
92) sec-butylbenzene	15.523	105	861037	23.74	ppb		92

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20303.D
Acq On : 6 Jun 2014 7:26 pm
Operator : garyk
Sample : ic915-25
Misc : ms31928,msu915,,,,5,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 09 11:05:36 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 10:21:48 2014
Response via : Initial Calibration

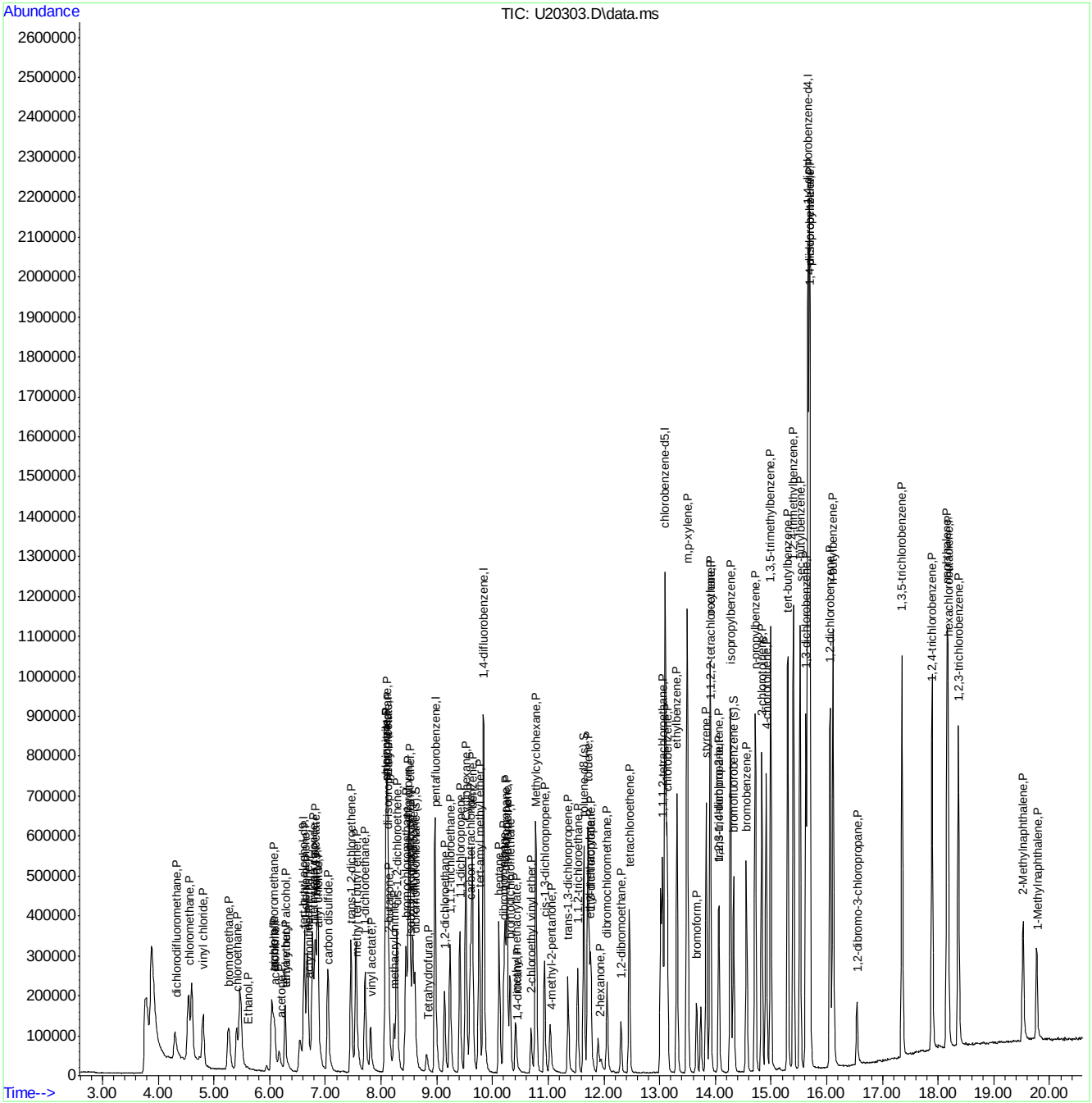
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
93) 1,3-dichlorobenzene	15.625	146	396936	23.95	ppb		99
94) p-isopropyltoluene	15.696	119	772577	23.66	ppb		93
95) 1,4-dichlorobenzene	15.693	146	416609	24.28	ppb		99
96) 1,2-dichlorobenzene	16.062	146	433157	24.23	ppb		97
97) n-butylbenzene	16.117	91	679437	24.16	ppb		84
98) 1,2-dibromo-3-chloropr...	16.550	75	45046	25.59	ppb	#	64
99) 1,3,5-trichlorobenzene	17.355	180	350728	24.55	ug/L		95
100) 1,2,4-trichlorobenzene	17.894	180	322770	24.00	ppb		92
101) hexachlorobutadiene	18.182	225	153565	25.48	ppb		97
102) naphthalene	18.161	128	820773	24.30	ppb		100
103) 2-Methylnaphthalene	19.532	142	207530	12.21	ug/L		97
104) 1-Methylnaphthalene	19.778	142	161252	12.34	ug/L		99
105) 1,2,3-trichlorobenzene	18.367	180	295999	24.45	ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20303.D
Acq On : 6 Jun 2014 7:26 pm
Operator : garyk
Sample : ic915-25
Misc : ms31928,msu915,,,,5,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 09 11:05:36 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 10:21:48 2014
Response via : Initial Calibration



ACCUTEST LABORATORIES MC31799

U20304.D

Manual Integrations APPROVED (compounds with "m" flag)

Tomasz Torski 06/09/14 12:45

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20304.D
Acq On : 6 Jun 2014 7:53 pm
Operator : garyk
Sample : icc915-50
Misc : ms31928,msu915,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 09 11:06:17 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 10:21:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.596	65	248501	500.00	ppb		0.00
4) pentafluorobenzene	8.974	168	500192	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.843	114	866492	50.00	ppb		0.00
66) chlorobenzene-d5	13.098	82	408429	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.664	152	586937	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.613	113	273270	50.00	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.00%				
60) toluene-d8 (s)	11.640	98	821057	50.00	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.00%				
82) bromofluorobenzene (s)	14.328	95	350528	50.00	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 100.00%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	6.288	59	261903	500.00	ppb		89
3) Ethanol	5.573	45	355286	5092.49	ppb		97
5) dichlorodifluoromethane	4.315	85	273642	50.00	ppb		96
6) chloromethane	4.548	50	686220	50.00	ppb		100
7) vinyl chloride	4.799	62	491724	50.00	ppb		98
8) bromomethane	5.271	96	254402	50.00	ppb		96
9) chloroethane	5.417	64	224632	50.00	ppb		97
10) ethyl ether	6.288	59	261903	50.00	ppb		91
11) acetonitrile	6.084	41	46682m	54.84	ppb		
12) trichlorofluoromethane	6.067	101	534197	50.00	ppb		99
13) freon-113	6.830	101	355574	50.00	ppb		91
14) acrolein	6.059	56	229684	250.00	ppb		92
15) 1,1-dichloroethene	6.629	96	285551	50.00	ppb		98
16) acetone	6.191	58	72603m	55.74	ppb		
17) Methyl Acetate	6.817	43	279210	50.00	ppb	#	90
18) methylene chloride	6.780	84	317373	50.00	ppb		91
19) methyl tert butyl ether	7.564	73	764201	50.00	ppb		89
20) acrylonitrile	6.694	53	141717	50.00	ppb		96
21) allyl chloride	6.876	41	679349	50.00	ppb		94
22) trans-1,2-dichloroethene	7.467	96	315837	50.00	ppb		97
23) iodomethane	6.688	142	610590	50.00	ppb		98
24) carbon disulfide	7.053	76	903410	50.00	ppb		98
25) propionitrile	8.084	54	28562	50.00	ppb		100
26) vinyl acetate	7.819	43	441272	50.00	ppb		99
27) chloroprene	8.082	53	523731	50.00	ppb		95
28) di-isopropyl ether	8.122	45	1256594	50.00	ppb		93
29) methacrylonitrile	8.236	41	175377	50.00	ppb		94
30) 2-butanone	8.132	72	39042	50.00	ppb	#	72
31) Ethyl Acetate	8.118	43	1091834	50.00	ug/L		98
32) Hexane	8.105	41	535407	50.00	ppb	#	81
33) 1,1-dichloroethane	7.718	63	620418	50.00	ppb		100
34) tert-butyl ethyl ether	8.519	59	1098593	50.00	ppb		99
35) isobutyl alcohol	8.537	43	199486	250.00	ppb		79
36) 2,2-dichloropropane	8.577	77	391372	50.00	ppb		93

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20304.D
Acq On : 6 Jun 2014 7:53 pm
Operator : garyk
Sample : icc915-50
Misc : ms31928,msu915,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 09 11:06:17 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 10:21:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) cis-1,2-dichloroethene	8.289	96	339535	50.00	ppb		96
38) bromochloromethane	8.454	128	183181	50.00	ppb	#	80
39) chloroform	8.492	83	521282	50.00	ppb		98
41) Tetrahydrofuran	8.834	42	95573	50.00	ppb		94
42) 1,1,1-trichloroethane	9.243	97	495745	50.00	ppb		96
44) Cyclohexane	9.526	56	683132	50.00	ppb		90
45) carbon tetrachloride	9.606	117	469902	50.00	ppb		97
46) 1,1-dichloropropene	9.417	75	350138	50.00	ppb		92
47) benzene	9.641	78	982142	50.00	ppb		96
48) 1,2-dichloroethane	9.142	62	390288	50.00	ppb		99
49) tert-amyl methyl ether	9.764	73	767714	50.00	ppb		90
50) heptane	10.122	43	429255	50.00	ppb	#	58
51) trichloroethene	10.261	95	303600	50.00	ppb		76
52) 1,2-dichloropropane	10.228	63	292744	50.00	ppb		99
53) dibromomethane	10.203	93	166941	50.00	ppb		91
54) bromodichloromethane	10.316	83	346530	50.00	ppb		97
55) Methylcyclohexane	10.779	83	485738	50.00	ppb		89
56) 2-chloroethyl vinyl ether	10.698	63	126077	50.00	ppb		97
57) methyl methacrylate	10.419	69	106768	50.00	ppb		89
58) 1,4-dioxane	10.450	88	11079	250.00	ppb		82
59) cis-1,3-dichloropropene	10.936	75	351492	50.00	ppb		90
61) 4-methyl-2-pentanone	11.039	43	301673	50.00	ppb		97
62) toluene	11.712	92	560072	50.00	ppb		98
63) trans-1,3-dichloropropene	11.357	75	275490	50.00	ppb		97
64) 1,1,2-trichloroethane	11.530	83	159538	50.00	ppb		92
65) ethyl methacrylate	11.741	69	229781	50.00	ppb		79
67) tetrachloroethene	12.455	166	280166	50.00	ppb		97
68) 1,3-dichloropropane	11.764	76	293715	50.00	ppb		91
69) dibromochloromethane	12.055	129	293939	50.00	ppb		98
70) 1,2-dibromoethane	12.307	107	220641	50.00	ppb		100
71) 2-hexanone	11.910	43	252658	50.00	ppb		94
72) chlorobenzene	13.135	112	721641	50.00	ppb		89
73) 1,1,1,2-tetrachloroethane	13.054	131	361269	50.00	ppb		96
74) ethylbenzene	13.310	91	1144185	50.00	ppb		92
75) m,p-xylene	13.494	106	973858	100.00	ppb		85
76) o-xylene	13.908	106	542944	50.00	ppb		85
77) styrene	13.835	104	747291	50.00	ppb		99
78) bromoform	13.662	173	204718	50.00	ppb		99
79) trans-1,4-dichloro-2-b...	14.061	53	98421	50.00	ppb		91
81) isopropylbenzene	14.271	105	1457071	50.00	ppb		97
83) bromobenzene	14.559	156	377416	50.00	ppb	#	77
84) 1,1,2,2-tetrachloroethane	13.913	83	283693	50.00	ppb		99
85) 1,2,3-trichloropropane	14.062	75	335325	50.00	ppb		100
86) n-propylbenzene	14.716	91	1569058	50.00	ppb		93
87) 2-chlorotoluene	14.834	91	990299	50.00	ppb		85
88) 4-chlorotoluene	14.911	91	985199	50.00	ppb		84
89) 1,3,5-trimethylbenzene	14.994	105	1453819	50.00	ppb		95
90) tert-butylbenzene	15.299	91	780759	50.00	ppb		84
91) 1,2,4-trimethylbenzene	15.403	105	1464734	50.00	ppb		99
92) sec-butylbenzene	15.522	105	1862073	50.00	ppb		93

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20304.D
Acq On : 6 Jun 2014 7:53 pm
Operator : garyk
Sample : icc915-50
Misc : ms31928,msu915,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 09 11:06:17 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 10:21:48 2014
Response via : Initial Calibration

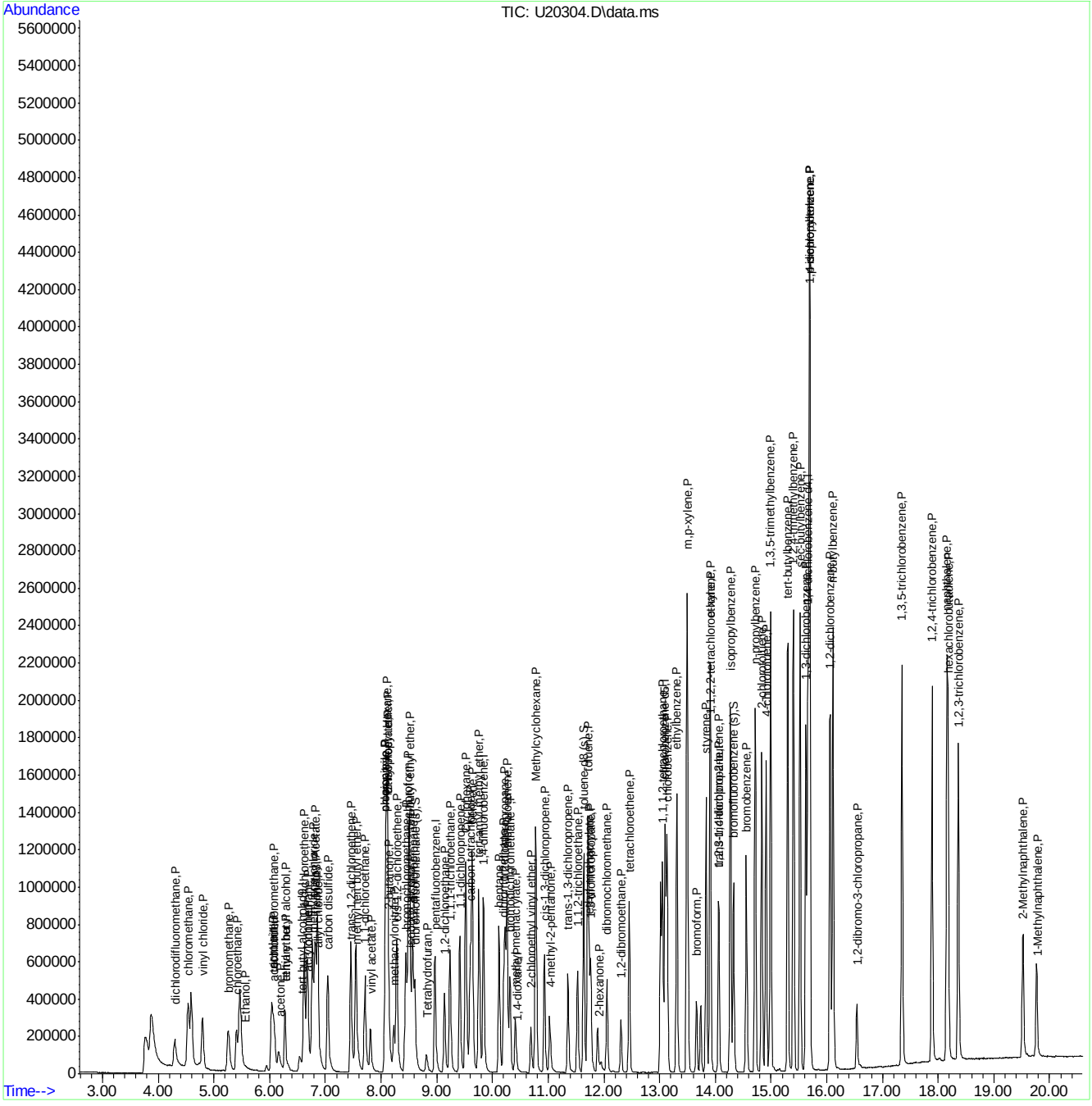
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	15.625	146	850961	50.00	ppb	98
94) p-isopropyltoluene	15.695	119	1676743	50.00	ppb	93
95) 1,4-dichlorobenzene	15.692	146	880883	50.00	ppb	99
96) 1,2-dichlorobenzene	16.061	146	917947	50.00	ppb	97
97) n-butylbenzene	16.115	91	1443912	50.00	ppb	84
98) 1,2-dibromo-3-chloropr...	16.545	75	90391	50.00	ppb	73
99) 1,3,5-trichlorobenzene	17.353	180	733644	50.00	ug/L	95
100) 1,2,4-trichlorobenzene	17.892	180	690507	50.00	ppb	95
101) hexachlorobutadiene	18.181	225	309451	50.00	ppb	93
102) naphthalene	18.159	128	1734651	50.00	ppb	100
103) 2-Methylnaphthalene	19.527	142	436351	25.00	ug/L	97
104) 1-Methylnaphthalene	19.777	142	335561	25.00	ug/L	97
105) 1,2,3-trichlorobenzene	18.366	180	621618	50.00	ppb	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20304.D
Acq On : 6 Jun 2014 7:53 pm
Operator : garyk
Sample : icc915-50
Misc : ms31928,msu915,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 09 11:06:17 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 10:21:48 2014
Response via : Initial Calibration



Manual Integrations APPROVED
(compounds with "m" flag)
Tomasz Torski
06/09/14 12:45

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20305.D
Acq On : 6 Jun 2014 8:20 pm
Operator : garyk
Sample : ic915-100
Misc : ms31928,msu915,,,,5,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 09 11:07:29 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 10:21:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.595	65	265141	500.00	ppb		0.00
4) pentafluorobenzene	8.974	168	596822	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.842	114	1019242	50.00	ppb		0.00
66) chlorobenzene-d5	13.099	82	451741	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.664	152	631564	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.614	113	620430	95.14	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 190.28%#				
60) toluene-d8 (s)	11.639	98	1894158	98.06	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 196.12%#				
82) bromofluorobenzene (s)	14.328	95	797224	105.68	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 211.36%#				
Target Compounds							Qvalue
2) tertiary butyl alcohol	6.287	59	579763	1037.36	ppb		93
3) Ethanol	5.586	45	789121m	10601.01	ppb		
5) dichlorodifluoromethane	4.327	85	531177	81.34	ppb		94
6) chloromethane	4.563	50	1407037	85.92	ppb		100
7) vinyl chloride	4.818	62	983980	83.85	ppb		97
8) bromomethane	5.286	96	546253	89.98	ppb		93
9) chloroethane	5.422	64	485297	90.53	ppb		100
10) ethyl ether	6.287	59	578396	92.54	ppb		92
11) acetonitrile	6.084	41	91886m	90.46	ppb		
12) trichlorofluoromethane	6.077	101	1152815	90.43	ppb		99
13) freon-113	6.839	101	739645	87.17	ppb		91
14) acrolein	6.053	56	498486	454.73	ppb		99
15) 1,1-dichloroethene	6.635	96	587918	86.28	ppb		99
16) acetone	6.206	58	167240	107.61	ppb		92
17) Methyl Acetate	6.816	43	615668	92.40	ppb	#	89
18) methylene chloride	6.781	84	643005	84.90	ppb		89
19) methyl tert butyl ether	7.565	73	1592196	87.31	ppb		91
20) acrylonitrile	6.694	53	306747	90.70	ppb		94
21) allyl chloride	6.872	41	1352616	83.43	ppb		95
22) trans-1,2-dichloroethene	7.467	96	645462	85.64	ppb		96
23) iodomethane	6.691	142	1260980	86.54	ppb		100
24) carbon disulfide	7.057	76	1835923	85.16	ppb		97
25) propionitrile	8.083	54	60364	88.56	ppb		100
26) vinyl acetate	7.816	43	1090611	103.57	ppb		98
27) chloroprene	8.083	53	1133932	90.73	ppb		95
28) di-isopropyl ether	8.122	45	2689380	89.68	ppb		92
29) methacrylonitrile	8.236	41	415903	99.38	ppb		93
30) 2-butanone	8.130	72	91652	98.37	ppb	#	22
31) Ethyl Acetate	8.117	43	2412437	92.59	ug/L		99
32) Hexane	8.105	41	1170731	91.63	ppb	#	84
33) 1,1-dichloroethane	7.719	63	1313803	88.74	ppb		100
34) tert-butyl ethyl ether	8.520	59	2346527	89.51	ppb		98
35) isobutyl alcohol	8.536	43	420562	441.72	ppb		91
36) 2,2-dichloropropane	8.577	77	759983	81.37	ppb		90

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20305.D
Acq On : 6 Jun 2014 8:20 pm
Operator : garyk
Sample : ic915-100
Misc : ms31928,msu915,,,,5,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 09 11:07:29 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 10:21:48 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	cis-1,2-dichloroethene	8.288	96	711548	87.82	ppb		97
38)	bromochloromethane	8.454	128	394638	90.28	ppb	#	82
39)	chloroform	8.492	83	1119985	90.03	ppb		98
41)	Tetrahydrofuran	8.832	42	212102	93.00	ppb		90
42)	1,1,1-trichloroethane	9.243	97	1021549	86.35	ppb		96
44)	Cyclohexane	9.527	56	1415452	88.07	ppb		90
45)	carbon tetrachloride	9.606	117	970023	87.75	ppb		99
46)	1,1-dichloropropene	9.417	75	783658	95.14	ppb		91
47)	benzene	9.640	78	2172667	94.03	ppb		96
48)	1,2-dichloroethane	9.142	62	883645	96.24	ppb		100
49)	tert-amyl methyl ether	9.763	73	1637752	90.68	ppb		91
50)	heptane	10.120	43	965867	95.64	ppb	#	58
51)	trichloroethene	10.261	95	674273	94.40	ppb		75
52)	1,2-dichloropropane	10.228	63	669793	97.25	ppb		100
53)	dibromomethane	10.203	93	377470	96.11	ppb		92
54)	bromodichloromethane	10.316	83	773296	94.86	ppb		97
55)	Methylcyclohexane	10.779	83	1001181	87.61	ppb		90
56)	2-chloroethyl vinyl ether	10.695	63	314903	106.17	ppb		97
57)	methyl methacrylate	10.414	69	258267	102.82	ppb		81
58)	1,4-dioxane	10.447	88	20330	390.00	ppb		100
59)	cis-1,3-dichloropropene	10.935	75	821060	99.29	ppb		89
61)	4-methyl-2-pentanone	11.032	43	665260	93.74	ppb		97
62)	toluene	11.712	92	1268147	96.25	ppb		99
63)	trans-1,3-dichloropropene	11.356	75	648372	100.04	ppb		98
64)	1,1,2-trichloroethane	11.529	83	370407	98.69	ppb		95
65)	ethyl methacrylate	11.736	69	524751	97.07	ppb		75
67)	tetrachloroethene	12.455	166	618966	99.87	ppb		96
68)	1,3-dichloropropane	11.763	76	681497	104.89	ppb		93
69)	dibromochloromethane	12.054	129	672571	103.44	ppb		98
70)	1,2-dibromoethane	12.306	107	508844	104.25	ppb		99
71)	2-hexanone	11.893	43	573646	102.64	ppb		95
72)	chlorobenzene	13.134	112	1626370	101.88	ppb		88
73)	1,1,1,2-tetrachloroethane	13.054	131	768393	96.15	ppb		97
74)	ethylbenzene	13.310	91	2489286	98.35	ppb		91
75)	m,p-xylene	13.494	106	2140912	198.76	ppb		83
76)	o-xylene	13.907	106	1169493	97.37	ppb		84
77)	styrene	13.834	104	1664303	100.68	ppb		99
78)	bromoform	13.661	173	458059	101.15	ppb		98
79)	trans-1,4-dichloro-2-b...	14.060	53	217467	99.89	ppb		93
81)	isopropylbenzene	14.271	105	3063043	97.68	ppb		95
83)	bromobenzene	14.559	156	830379	102.24	ppb	#	81
84)	1,1,2,2-tetrachloroethane	13.913	83	622020	101.88	ppb		98
85)	1,2,3-trichloropropane	14.061	75	717026	99.36	ppb		98
86)	n-propylbenzene	14.717	91	3314659	98.16	ppb		91
87)	2-chlorotoluene	14.835	91	2091800	98.15	ppb		81
88)	4-chlorotoluene	14.910	91	2131021	100.51	ppb		85
89)	1,3,5-trimethylbenzene	14.994	105	3068422	98.07	ppb		95
90)	tert-butylbenzene	15.299	91	1682105	100.11	ppb		85
91)	1,2,4-trimethylbenzene	15.403	105	3061340	97.12	ppb		98
92)	sec-butylbenzene	15.523	105	3867297	96.51	ppb		93

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20305.D
Acq On : 6 Jun 2014 8:20 pm
Operator : garyk
Sample : ic915-100
Misc : ms31928,msu915,,,,5,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 09 11:07:29 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 10:21:48 2014
Response via : Initial Calibration

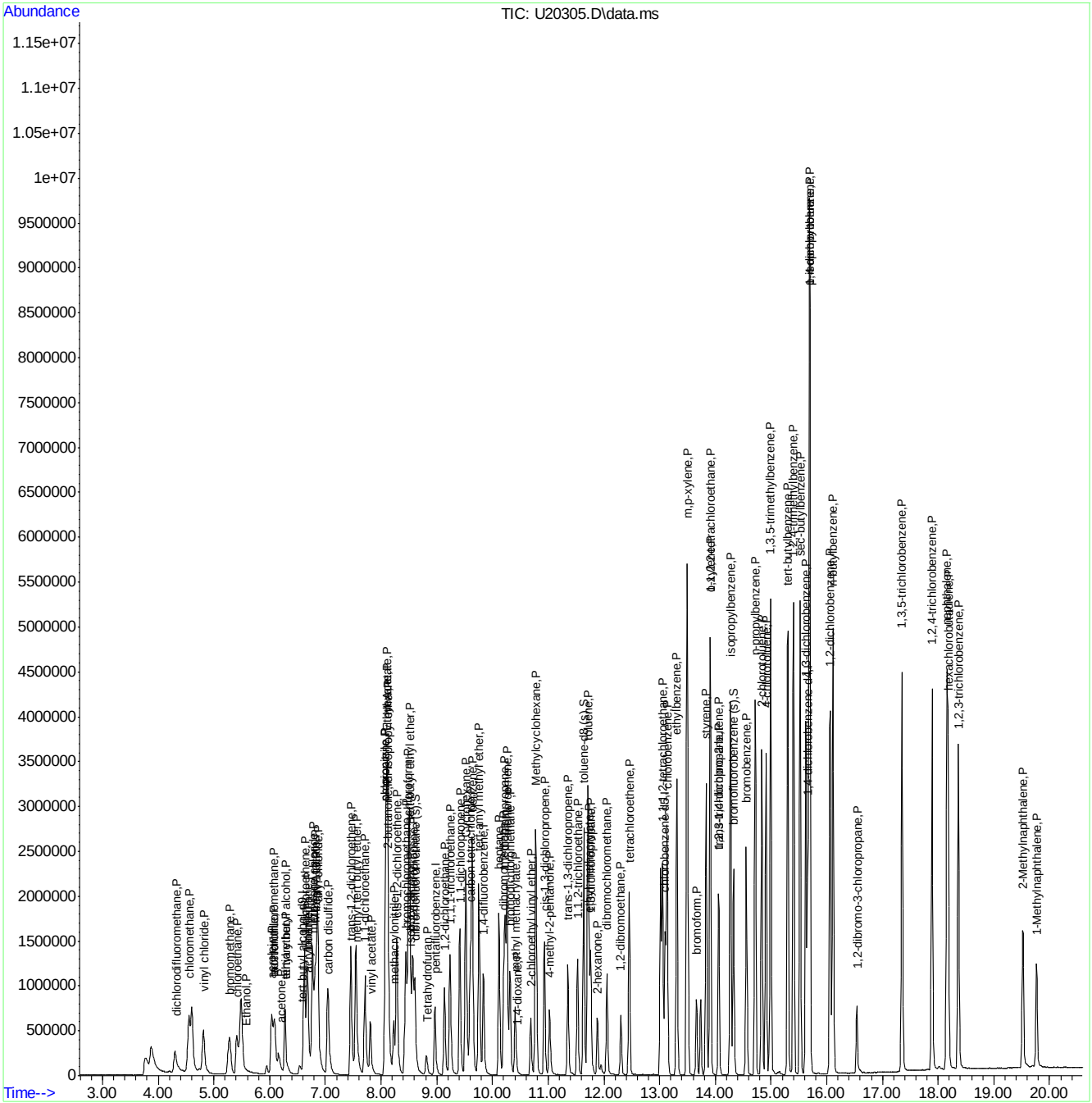
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	15.625	146	1784228	97.43	ppb	99
94) p-isopropyltoluene	15.695	119	3510623	97.29	ppb	95
95) 1,4-dichlorobenzene	15.692	146	1852489	97.72	ppb	99
96) 1,2-dichlorobenzene	16.061	146	1905239	96.44	ppb	97
97) n-butylbenzene	16.113	91	2957283	95.17	ppb	84
98) 1,2-dibromo-3-chloropr...	16.543	75	186068	95.65	ppb	74
99) 1,3,5-trichlorobenzene	17.353	180	1501432	95.10	ug/L	96
100) 1,2,4-trichlorobenzene	17.893	180	1433972	96.50	ppb	93
101) hexachlorobutadiene	18.182	225	638795	95.92	ppb	97
102) naphthalene	18.159	128	3598016	96.38	ppb	100
103) 2-Methylnaphthalene	19.525	142	982888	52.33	ug/L	97
104) 1-Methylnaphthalene	19.774	142	764056	52.90	ug/L	97
105) 1,2,3-trichlorobenzene	18.365	180	1306455	97.66	ppb	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20305.D
Acq On : 6 Jun 2014 8:20 pm
Operator : garyk
Sample : ic915-100
Misc : ms31928,msu915,,,,5,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 09 11:07:29 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 10:21:48 2014
Response via : Initial Calibration



Manual Integrations APPROVED
(compounds with "m" flag)
Tomasz Torski
06/09/14 12:45

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20306.D
Acq On : 6 Jun 2014 8:48 pm
Operator : garyk
Sample : ic915-200
Misc : ms31928,msu915,,,,5,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 09 11:08:28 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 10:21:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.580	65	273367	500.00	ppb		-0.02
4) pentafluorobenzene	8.973	168	607343	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.842	114	1075245	50.00	ppb		0.00
66) chlorobenzene-d5	13.099	82	471962	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.664	152	666099	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.613	113	1278520	192.66	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 385.32%#				
60) toluene-d8 (s)	11.638	98	4065416	199.51	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 399.02%#				
82) bromofluorobenzene (s)	14.327	95	1708438	214.73	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 429.46%#				
Target Compounds							Qvalue
2) tertiary butyl alcohol	6.284	59	1155569	2005.43	ppb		95
3) Ethanol	5.599	45	1583396m	20631.18	ppb		
5) dichlorodifluoromethane	4.322	85	1166870	175.60	ppb		94
6) chloromethane	4.562	50	2805080	168.33	ppb		100
7) vinyl chloride	4.816	62	2005482	167.95	ppb		98
8) bromomethane	5.282	96	1088123	176.13	ppb		93
9) chloroethane	5.421	64	987110	180.95	ppb		99
10) ethyl ether	6.285	59	1155747	181.72	ppb		91
11) acetonitrile	6.084	41	180235m	174.37	ppb		
12) trichlorofluoromethane	6.074	101	2333694	179.89	ppb		98
13) freon-113	6.836	101	1497343	173.41	ppb		91
14) acrolein	6.051	56	1017249	911.88	ppb		99
15) 1,1-dichloroethene	6.633	96	1186331	171.08	ppb		98
16) acetone	6.203	58	348641	220.44	ppb	#	82
17) Methyl Acetate	6.811	43	1266890	186.84	ppb	#	92
18) methylene chloride	6.781	84	1301728	168.90	ppb		91
19) methyl tert butyl ether	7.564	73	3265468	175.96	ppb		90
20) acrylonitrile	6.692	53	626625	182.08	ppb		95
21) allyl chloride	6.871	41	2736805	165.89	ppb		95
22) trans-1,2-dichloroethene	7.465	96	1304070	170.02	ppb		95
23) iodomethane	6.689	142	2555567	172.35	ppb		99
24) carbon disulfide	7.054	76	3681018	167.79	ppb		97
25) propionitrile	8.084	54	123957	178.71	ppb		100
26) vinyl acetate	7.813	43	2092497	195.27	ppb		99
27) chloroprene	8.082	53	2263985	178.01	ppb		95
28) di-isopropyl ether	8.121	45	5347914	175.25	ppb		92
29) methacrylonitrile	8.233	41	852906	200.26	ppb		96
30) 2-butanone	8.128	72	194685	205.34	ppb	#	47
31) Ethyl Acetate	8.116	43	4820847	181.82	ug/L		98
32) Hexane	8.104	41	2290043	176.13	ppb		98
33) 1,1-dichloroethane	7.717	63	2626214	174.31	ppb		99
34) tert-butyl ethyl ether	8.520	59	4756912	178.30	ppb		99
35) isobutyl alcohol	8.536	43	878504	906.72	ppb		95
36) 2,2-dichloropropane	8.577	77	1533824	161.38	ppb		89

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20306.D
Acq On : 6 Jun 2014 8:48 pm
Operator : garyk
Sample : ic915-200
Misc : ms31928,msu915,,,,5,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 09 11:08:28 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 10:21:48 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	cis-1,2-dichloroethene	8.287	96	1436158	174.18	ppb		97
38)	bromochloromethane	8.454	128	801606	180.20	ppb	#	81
39)	chloroform	8.492	83	2250082	177.75	ppb		96
41)	Tetrahydrofuran	8.825	42	433430	186.75	ppb		96
42)	1,1,1-trichloroethane	9.243	97	2089786	173.59	ppb		97
44)	Cyclohexane	9.527	56	2865608	169.02	ppb		91
45)	carbon tetrachloride	9.606	117	1995106	171.07	ppb		98
46)	1,1-dichloropropene	9.415	75	1600183	184.14	ppb		90
47)	benzene	9.640	78	4492696	184.31	ppb		97
48)	1,2-dichloroethane	9.141	62	1819590	187.85	ppb		100
49)	tert-amyl methyl ether	9.763	73	3352060	175.93	ppb		92
50)	heptane	10.119	43	1908605	179.15	ppb	#	56
51)	trichloroethene	10.261	95	1439115	190.99	ppb		74
52)	1,2-dichloropropane	10.227	63	1403884	193.23	ppb		100
53)	dibromomethane	10.202	93	774973	187.05	ppb		92
54)	bromodichloromethane	10.315	83	1626105	189.08	ppb		97
55)	Methylcyclohexane	10.779	83	2048703	169.94	ppb		91
56)	2-chloroethyl vinyl ether	10.692	63	633780	202.55	ppb		97
57)	methyl methacrylate	10.411	69	533350	201.28	ppb		82
58)	1,4-dioxane	10.448	88	42731	777.03	ppb		76
59)	cis-1,3-dichloropropene	10.934	75	1685815	193.25	ppb		90
61)	4-methyl-2-pentanone	11.028	43	1419203	189.55	ppb		98
62)	toluene	11.711	92	2658809	191.28	ppb		99
63)	trans-1,3-dichloropropene	11.354	75	1321893	193.34	ppb		97
64)	1,1,2-trichloroethane	11.528	83	757948	191.43	ppb		94
65)	ethyl methacrylate	11.730	69	1021396	179.10	ppb		91
67)	tetrachloroethene	12.454	166	1299203	200.65	ppb		92
68)	1,3-dichloropropane	11.762	76	1387326	204.38	ppb		91
69)	dibromochloromethane	12.054	129	1401545	206.31	ppb		98
70)	1,2-dibromoethane	12.305	107	1037241	203.41	ppb		99
71)	2-hexanone	11.886	43	1187624	203.39	ppb		95
72)	chlorobenzene	13.134	112	3406996	204.28	ppb		88
73)	1,1,1,2-tetrachloroethane	13.054	131	1636807	196.04	ppb		97
74)	ethylbenzene	13.309	91	5203754	196.79	ppb		91
75)	m,p-xylene	13.494	106	4494802	399.42	ppb		83
76)	o-xylene	13.907	106	2471753	196.98	ppb		85
77)	styrene	13.834	104	3522002	203.93	ppb		98
78)	bromoform	13.661	173	960732	203.06	ppb		100
79)	trans-1,4-dichloro-2-b...	14.058	53	459814	202.15	ppb		94
81)	isopropylbenzene	14.271	105	6503940	196.66	ppb		95
83)	bromobenzene	14.558	156	1726319	201.52	ppb	#	82
84)	1,1,2,2-tetrachloroethane	13.913	83	1252481	194.51	ppb		98
85)	1,2,3-trichloropropane	14.060	75	1505303	197.78	ppb		99
86)	n-propylbenzene	14.716	91	6946423	195.05	ppb		90
87)	2-chlorotoluene	14.835	91	4430503	197.11	ppb		81
88)	4-chlorotoluene	14.910	91	4471966	199.98	ppb		84
89)	1,3,5-trimethylbenzene	14.993	105	6534879	198.04	ppb		94
90)	tert-butylbenzene	15.300	91	3667667	206.96	ppb		86
91)	1,2,4-trimethylbenzene	15.404	105	6418657	193.07	ppb		97
92)	sec-butylbenzene	15.523	105	8193324	193.86	ppb		92

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20306.D
Acq On : 6 Jun 2014 8:48 pm
Operator : garyk
Sample : ic915-200
Misc : ms31928,msu915,,,,5,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 09 11:08:28 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 10:21:48 2014
Response via : Initial Calibration

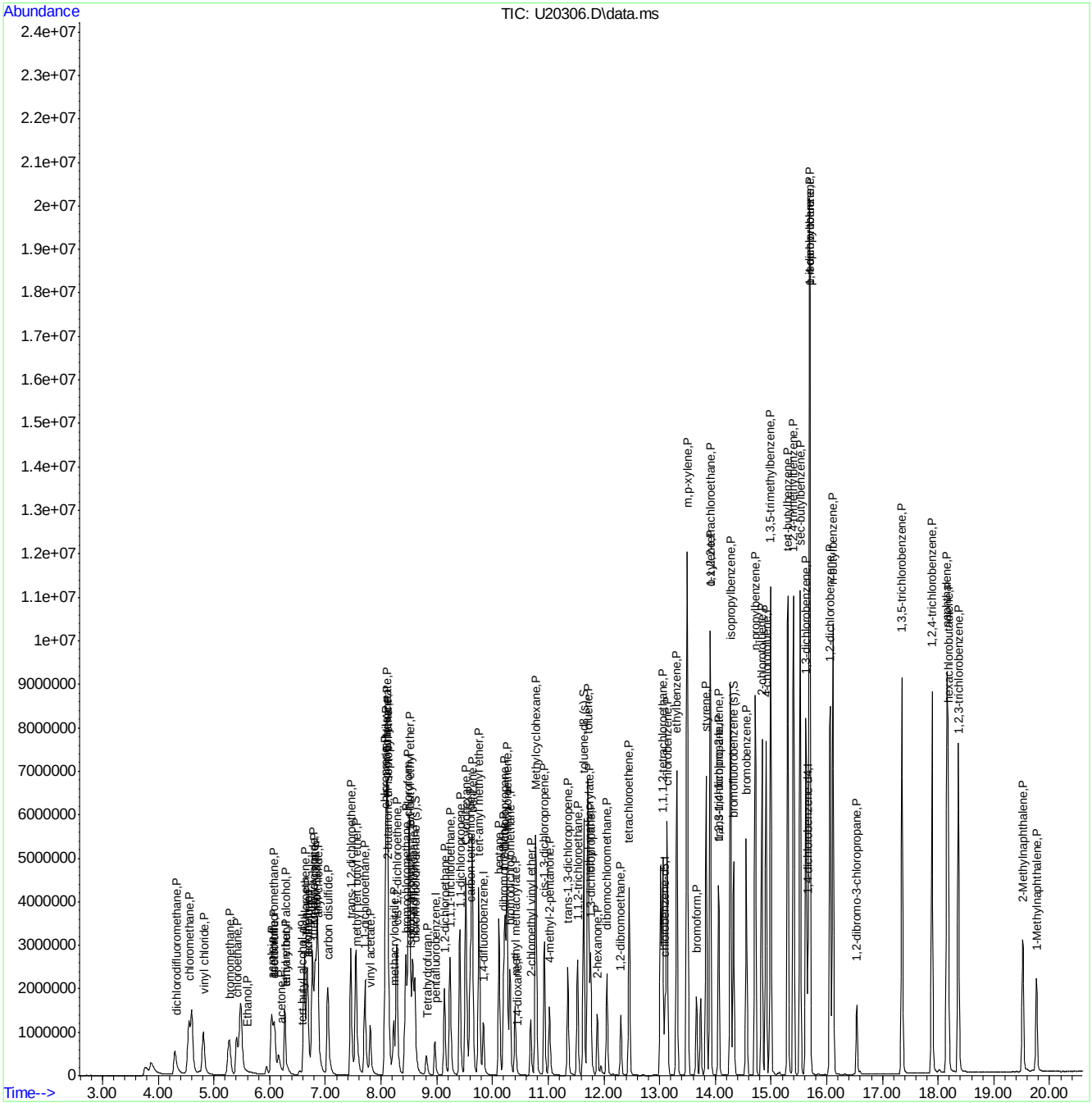
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93)	1,3-dichlorobenzene	15.626	146	3723252	192.77	ppb	99
94)	p-isopropyltoluene	15.695	119	7281893	191.34	ppb	95
95)	1,4-dichlorobenzene	15.693	146	3816568	190.89	ppb	98
96)	1,2-dichlorobenzene	16.060	146	3963445	190.23	ppb	97
97)	n-butylbenzene	16.113	91	6125119	186.89	ppb	83
98)	1,2-dibromo-3-chloropr...	16.541	75	396493	193.26	ppb	82
99)	1,3,5-trichlorobenzene	17.353	180	3049974	183.16	ug/L	95
100)	1,2,4-trichlorobenzene	17.892	180	2918681	186.23	ppb	93
101)	hexachlorobutadiene	18.182	225	1270105	180.83	ppb	97
102)	naphthalene	18.158	128	7461913	189.52	ppb	100
103)	2-Methylnaphthalene	19.523	142	1920438	96.95	ug/L	97
104)	1-Methylnaphthalene	19.770	142	1428916	93.81	ug/L	98
105)	1,2,3-trichlorobenzene	18.365	180	2669116	189.18	ppb	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20306.D
Acq On : 6 Jun 2014 8:48 pm
Operator : garyk
Sample : ic915-200
Misc : ms31928,msu915,,,,5,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 09 11:08:28 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 10:21:48 2014
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Tomasz Torski 06/09/14 12:45

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20307.D
Acq On : 6 Jun 2014 9:15 pm
Operator : garyk
Sample : ic915-400
Misc : ms31928,msu915,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 09 11:09:32 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 10:21:48 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.584	65	291099	500.00	ppb		-0.01
4) pentafluorobenzene	8.973	168	646731	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.842	114	1163714	50.00	ppb		0.00
66) chlorobenzene-d5	13.099	82	558656	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.667	152	735249	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.614	113	2683502	379.75	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	759.50%#			
60) toluene-d8 (s)	11.639	98	8913648	404.18	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	808.36%#			
82) bromofluorobenzene (s)	14.329	95	4037057	459.69	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	919.38%#			
Target Compounds							Qvalue
2) tertiary butyl alcohol	6.285	59	2415034	3935.87	ppb		92
3) Ethanol	5.606	45	3666019m	44857.45	ppb		
5) dichlorodifluoromethane	4.321	85	2398214	338.91	ppb		96
6) chloromethane	4.564	50	5541429	312.28	ppb		100
7) vinyl chloride	4.815	62	3860406	303.60	ppb		97
8) bromomethane	5.282	96	2206856	335.46	ppb		92
9) chloroethane	5.420	64	1988582	342.34	ppb		99
10) ethyl ether	6.285	59	2415544	356.66	ppb		93
11) acetonitrile	6.084	41	386226m	350.91	ppb		
12) trichlorofluoromethane	6.073	101	4745709	343.54	ppb		98
13) freon-113	6.835	101	3072055	334.10	ppb		89
14) acrolein	6.054	56	2107205	1773.90	ppb		92
15) 1,1-dichloroethene	6.632	96	2447041	331.39	ppb		97
16) acetone	6.203	58	675297	400.97	ppb		87
17) Methyl Acetate	6.814	43	2661357	368.60	ppb	#	88
18) methylene chloride	6.781	84	2710473	330.26	ppb		90
19) methyl tert butyl ether	7.565	73	6791772	343.68	ppb		89
20) acrylonitrile	6.693	53	1301422	355.12	ppb		96
21) allyl chloride	6.872	41	5574541	317.32	ppb		96
22) trans-1,2-dichloroethene	7.467	96	2705044	331.20	ppb		94
23) iodomethane	6.690	142	5301834	335.78	ppb		98
24) carbon disulfide	7.054	76	7629570	326.59	ppb		96
25) propionitrile	8.084	54	250765	339.52	ppb		100
26) vinyl acetate	7.813	43	4706751	412.48	ppb		99
27) chloroprene	8.082	53	4686214	346.02	ppb		95
28) di-isopropyl ether	8.122	45	10909232	335.72	ppb		94
29) methacrylonitrile	8.234	41	1831130	403.77	ppb		96
30) 2-butanone	8.128	72	399673	395.87	ppb	#	38
31) Ethyl Acetate	8.117	43	9774814	346.21	ug/L		99
32) Hexane	8.105	41	4689148	338.68	ppb	#	85
33) 1,1-dichloroethane	7.718	63	5459169	340.27	ppb		100
34) tert-butyl ethyl ether	8.521	59	9948586	350.19	ppb		98
35) isobutyl alcohol	8.538	43	1863534	1806.25	ppb		99
36) 2,2-dichloropropane	8.578	77	3121699	308.45	ppb		88

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20307.D
Acq On : 6 Jun 2014 9:15 pm
Operator : garyk
Sample : ic915-400
Misc : ms31928,msu915,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 09 11:09:32 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 10:21:48 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	cis-1,2-dichloroethene	8.288	96	3029537	345.04	ppb		96
38)	bromochloromethane	8.455	128	1699534	358.78	ppb	#	80
39)	chloroform	8.493	83	4687394	347.73	ppb		97
41)	Tetrahydrofuran	8.824	42	932976	377.50	ppb		92
42)	1,1,1-trichloroethane	9.244	97	4354902	339.71	ppb		97
44)	Cyclohexane	9.528	56	5938725	323.65	ppb		92
45)	carbon tetrachloride	9.606	117	4170159	330.40	ppb		99
46)	1,1-dichloropropene	9.416	75	3396294	361.12	ppb		91
47)	benzene	9.640	78	9591200	363.57	ppb		98
48)	1,2-dichloroethane	9.142	62	3853537	367.59	ppb		100
49)	tert-amyl methyl ether	9.764	73	7076305	343.16	ppb		92
50)	heptane	10.119	43	4060375	352.16	ppb	#	55
51)	trichloroethene	10.261	95	3067990	376.22	ppb		76
52)	1,2-dichloropropane	10.228	63	3112843	395.87	ppb		100
53)	dibromomethane	10.202	93	1678921	374.42	ppb		93
54)	bromodichloromethane	10.316	83	3560464	382.52	ppb		97
55)	Methylcyclohexane	10.780	83	4317435	330.91	ppb		91
56)	2-chloroethyl vinyl ether	10.691	63	1489757	439.91	ppb		97
57)	methyl methacrylate	10.409	69	1234995	430.64	ppb		84
58)	1,4-dioxane	10.445	88	106603	1791.13	ppb		86
59)	cis-1,3-dichloropropene	10.934	75	3822840	404.91	ppb		90
61)	4-methyl-2-pentanone	11.026	43	3146269	388.28	ppb		99
62)	toluene	11.711	92	6042276	401.65	ppb		97
63)	trans-1,3-dichloropropene	11.354	75	3055807	412.96	ppb		95
64)	1,1,2-trichloroethane	11.528	83	1732028	404.18	ppb		95
65)	ethyl methacrylate	11.730	69	2442751	395.78	ppb		94
67)	tetrachloroethene	12.454	166	3000975	391.55	ppb		91
68)	1,3-dichloropropane	11.763	76	3245487	403.92	ppb		91
69)	dibromochloromethane	12.054	129	3250403	404.22	ppb		98
70)	1,2-dibromoethane	12.306	107	2421086	401.11	ppb		98
71)	2-hexanone	11.883	43	2753857	398.43	ppb		95
72)	chlorobenzene	13.135	112	7930092	401.70	ppb		89
73)	1,1,1,2-tetrachloroethane	13.055	131	3698179	374.20	ppb		98
74)	ethylbenzene	13.309	91	11860018	378.91	ppb		87
75)	m,p-xylene	13.496	106	10230815	768.05	ppb	#	74
76)	o-xylene	13.909	106	5602602	377.20	ppb		82
77)	styrene	13.835	104	8335496	407.74	ppb		99
78)	bromoform	13.663	173	2264396	404.33	ppb		100
79)	trans-1,4-dichloro-2-b...	14.059	53	1068402	396.82	ppb		95
81)	isopropylbenzene	14.273	105	13895847	380.65	ppb		90
83)	bromobenzene	14.559	156	4037600	427.00	ppb	#	77
84)	1,1,2,2-tetrachloroethane	13.916	83	2875113	404.51	ppb		99
85)	1,2,3-trichloropropane	14.060	75	3474608	413.59	ppb		100
86)	n-propylbenzene	14.718	91	14800599	376.50	ppb		83
87)	2-chlorotoluene	14.837	91	9877944	398.13	ppb		81
88)	4-chlorotoluene	14.911	91	10212283	413.74	ppb		82
89)	1,3,5-trimethylbenzene	14.995	105	13586252	373.01	ppb		88
90)	tert-butylbenzene	15.301	91	7856926	401.66	ppb		96
91)	1,2,4-trimethylbenzene	15.406	105	13438795	366.21	ppb		91
92)	sec-butylbenzene	15.526	105	16042404	343.87	ppb		84

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20307.D
Acq On : 6 Jun 2014 9:15 pm
Operator : garyk
Sample : ic915-400
Misc : ms31928,msu915,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 09 11:09:32 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 10:21:48 2014
Response via : Initial Calibration

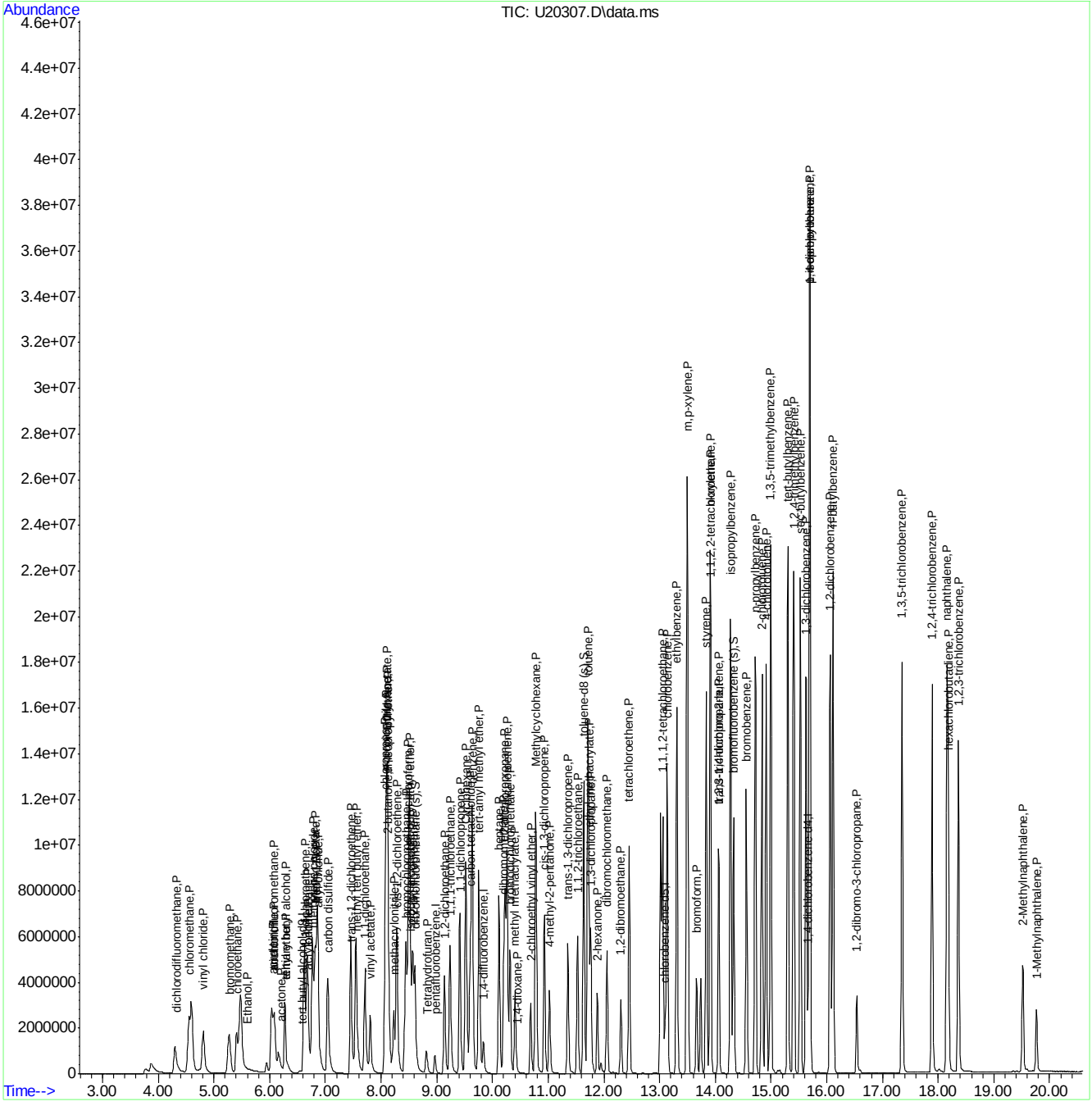
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93)	1,3-dichlorobenzene	15.629	146	8327378	390.59	ppb	99
94)	p-isopropyltoluene	15.697	119	14223319	338.58	ppb	92
95)	1,4-dichlorobenzene	15.695	146	7920002	358.87	ppb	98
96)	1,2-dichlorobenzene	16.062	146	8458190	367.78	ppb	95
97)	n-butylbenzene	16.113	91	12524287	346.21	ppb	79
98)	1,2-dibromo-3-chloropr...	16.540	75	823030	363.43	ppb	80
99)	1,3,5-trichlorobenzene	17.354	180	6131485	333.59	ug/L	95
100)	1,2,4-trichlorobenzene	17.893	180	5820655	336.46	ppb	93
101)	hexachlorobutadiene	18.183	225	2541731	327.84	ppb	95
102)	naphthalene	18.159	128	14263342	328.20	ppb	100
103)	2-Methylnaphthalene	19.523	142	2947560	134.81	ug/L	97
104)	1-Methylnaphthalene	19.770	142	1769171	105.22	ug/L	98
105)	1,2,3-trichlorobenzene	18.366	180	5268562	338.29	ppb	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20307.D
Acq On : 6 Jun 2014 9:15 pm
Operator : garyk
Sample : ic915-400
Misc : ms31928,msu915,,,,5,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 09 11:09:32 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 10:21:48 2014
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Tomasz Torski
06/09/14 12:45

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20311.D
Acq On : 6 Jun 2014 11:04 pm
Operator : garyk
Sample : icv915-50
Misc : ms31928,msu915,,,,5,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 09 11:59:31 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.603	65	251817	50.00	ppb		0.00
4) pentafluorobenzene	8.975	168	513879	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.843	114	908414	50.00	ppb		0.00
66) chlorobenzene-d5	13.098	82	438212	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.664	152	628718	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.613	113	285770	51.38	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.76%				
60) toluene-d8 (s)	11.640	98	881318	50.86	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.72%				
82) bromofluorobenzene (s)	14.328	95	393689	49.43	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.86%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	6.288	59	257417	482.49	ppb		89
3) Ethanol	5.587	45	357168	4563.49	ppb		96
5) dichlorodifluoromethane	4.315	85	363153m	69.91	ppb		
6) chloromethane	4.544	50	819067m	59.86	ppb		
7) vinyl chloride	4.799	62	579639	59.38	ppb		96
8) bromomethane	5.270	96	293104	56.74	ppb		93
9) chloroethane	5.418	64	252248	56.67	ppb		98
10) ethyl ether	6.288	59	257417	49.50	ppb		95
11) acetonitrile	6.090	41	52222m	58.81	ppb		
12) trichlorofluoromethane	6.066	101	568733	53.07	ppb		99
13) freon-113	6.832	101	341516	50.33	ppb		90
14) acrolein	6.061	56	203601	221.31	ppb		92
15) 1,1-dichloroethene	6.631	96	292879	50.38	ppb		100
16) acetone	6.191	58	67893m	46.83	ppb		
17) Methyl Acetate	6.818	43	274574	50.19	ppb	#	88
18) methylene chloride	6.779	84	320305	50.93	ppb		89
19) methyl tert butyl ether	7.565	73	760975	49.76	ppb		91
20) acrylonitrile	6.700	53	136798	48.76	ppb		93
21) allyl chloride	6.876	41	662390	51.89	ppb		96
22) trans-1,2-dichloroethene	7.468	96	328013	49.11	ppb		95
23) iodomethane	6.688	142	574681	49.12	ppb		100
24) carbon disulfide	7.053	76	844028	48.95	ppb		98
25) propionitrile	8.083	54	26773	48.14	ppb		100
26) vinyl acetate	7.820	43	385408	42.67	ppb		100
27) chloroprene	8.083	53	494785	48.49	ppb		95
28) di-isopropyl ether	8.122	45	1241387	50.68	ppb		94
29) methacrylonitrile	8.237	41	168950	46.35	ppb		97
30) 2-butanone	8.135	72	37746	49.31	ppb	#	63
31) Ethyl Acetate	8.119	43	1043756	48.93	ug/L		94
32) Hexane	8.106	41	490353	47.11	ppb	#	79
33) 1,1-dichloroethane	7.718	63	617669	50.88	ppb		98
34) tert-butyl ethyl ether	8.519	59	1103899	51.41	ppb		98
35) isobutyl alcohol	8.538	43	196738	252.74	ppb		78
36) 2,2-dichloropropane	8.575	77	360298	49.12	ppb		92

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20311.D
Acq On : 6 Jun 2014 11:04 pm
Operator : garyk
Sample : icv915-50
Misc : ms31928,msu915,,,,5,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 09 11:59:31 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	cis-1,2-dichloroethene	8.289	96	338686	47.98	ppb		96
38)	bromochloromethane	8.454	128	181446	50.42	ppb	#	82
39)	chloroform	8.492	83	503859	48.37	ppb		98
41)	Tetrahydrofuran	8.838	42	90505	44.42	ppb		89
42)	1,1,1-trichloroethane	9.242	97	484014	50.55	ppb		99
44)	Cyclohexane	9.526	56	658638	48.78	ppb		92
45)	carbon tetrachloride	9.606	117	453756	49.60	ppb		100
46)	1,1-dichloropropene	9.417	75	330772	46.34	ppb		90
47)	benzene	9.641	78	974804	46.31	ppb		97
48)	1,2-dichloroethane	9.142	62	379113	45.72	ppb		100
49)	tert-amyl methyl ether	9.765	73	778058	50.03	ppb		92
50)	heptane	10.122	43	388229	44.10	ppb	#	56
51)	trichloroethene	10.262	95	303991	47.83	ppb		77
52)	1,2-dichloropropane	10.228	63	292132	47.69	ppb		100
53)	dibromomethane	10.203	93	168849	48.30	ppb		91
54)	bromodichloromethane	10.316	83	355450	49.98	ppb		95
55)	Methylcyclohexane	10.779	83	469717	49.29	ppb		91
56)	2-chloroethyl vinyl ether	10.699	63	140676	51.96	ppb		96
57)	methyl methacrylate	10.419	69	107213	47.26	ppb		80
58)	1,4-dioxane	10.455	88	12526	321.22	ppb		81
59)	cis-1,3-dichloropropene	10.936	75	355090	49.57	ppb		90
61)	4-methyl-2-pentanone	11.041	43	296036	48.05	ppb		97
62)	toluene	11.712	92	585177	51.50	ppb		100
63)	trans-1,3-dichloropropene	11.357	75	310455	56.11	ppb		97
64)	1,1,2-trichloroethane	11.530	83	165259	49.50	ppb		96
65)	ethyl methacrylate	11.737	69	233825	49.98	ppb		82
67)	tetrachloroethene	12.455	166	274677	45.33	ppb		95
68)	1,3-dichloropropane	11.764	76	306621	46.96	ppb		92
69)	dibromochloromethane	12.055	129	314821	48.27	ppb		98
70)	1,2-dibromoethane	12.307	107	229253	46.08	ppb		97
71)	2-hexanone	11.907	43	281755	52.20	ppb		93
72)	chlorobenzene	13.135	112	760654	47.67	ppb		88
73)	1,1,1,2-tetrachloroethane	13.054	131	379616	48.16	ppb		99
74)	ethylbenzene	13.310	91	1205500	47.99	ppb		92
75)	m,p-xylene	13.495	106	1021907	96.85	ppb		88
76)	o-xylene	13.907	106	571731	48.32	ppb		86
77)	styrene	13.835	104	800166	48.80	ppb		98
78)	bromoform	13.662	173	214361	47.31	ppb		99
79)	trans-1,4-dichloro-2-b...	14.062	53	102877	48.10	ppb		93
81)	isopropylbenzene	14.271	105	1558357	51.16	ppb		96
83)	bromobenzene	14.559	156	401811	49.58	ppb	#	77
84)	1,1,2,2-tetrachloroethane	13.913	83	300455	48.64	ppb		99
85)	1,2,3-trichloropropane	14.062	75	346031	48.17	ppb		100
86)	n-propylbenzene	14.717	91	1588038	48.05	ppb		91
87)	2-chlorotoluene	14.835	91	1043261	49.47	ppb		80
88)	4-chlorotoluene	14.911	91	1035863	48.89	ppb		83
89)	1,3,5-trimethylbenzene	14.994	105	1478781	49.32	ppb		93
90)	tert-butylbenzene	15.299	91	794303	48.61	ppb		81
91)	1,2,4-trimethylbenzene	15.403	105	1479231	48.71	ppb		97
92)	sec-butylbenzene	15.522	105	1923046	50.54	ppb		94

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20311.D
Acq On : 6 Jun 2014 11:04 pm
Operator : garyk
Sample : icv915-50
Misc : ms31928,msu915,,,,5,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 09 11:59:31 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

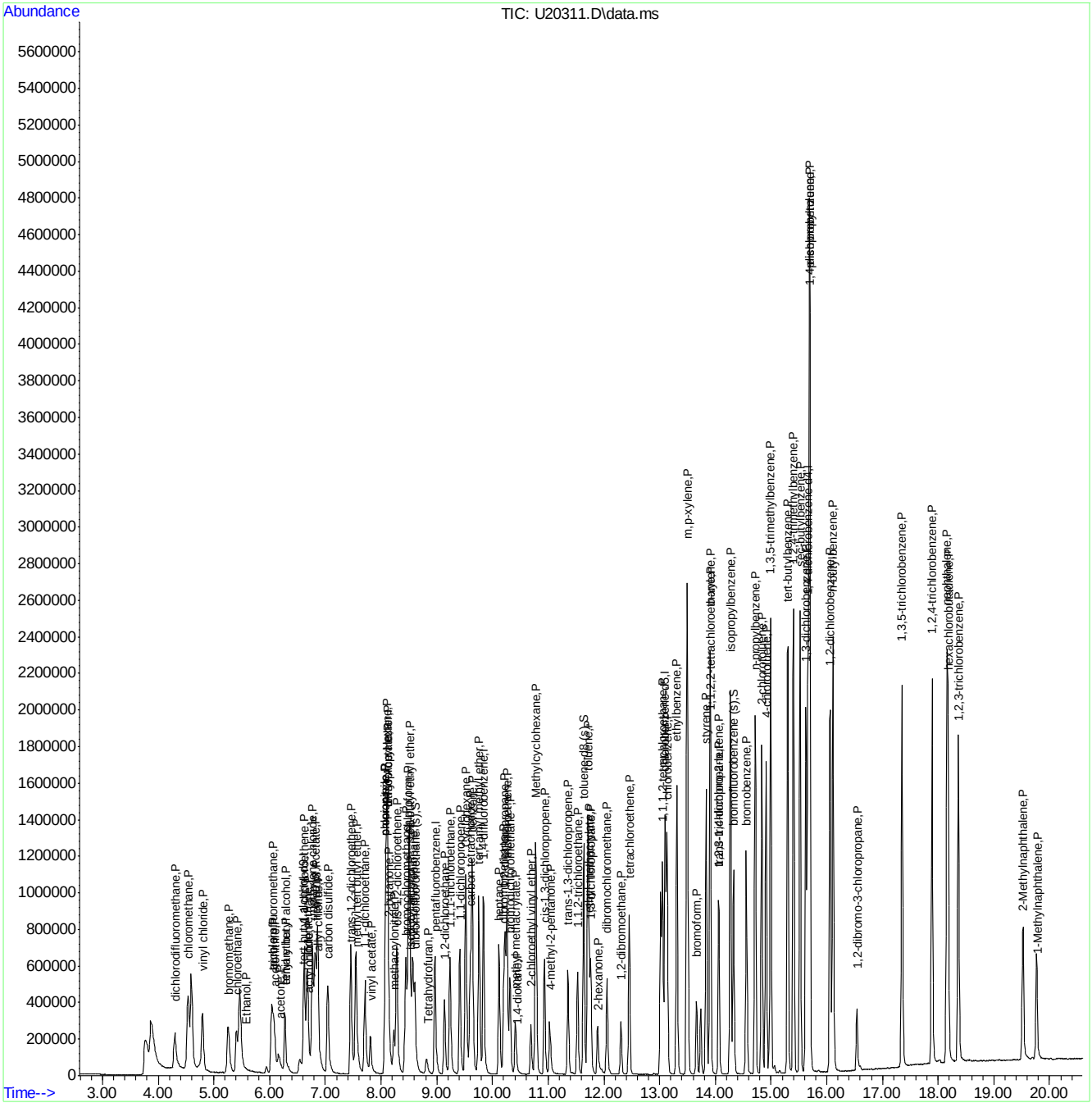
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
93) 1,3-dichlorobenzene	15.625	146	900013	50.34	ppb		98
94) p-isopropyltoluene	15.695	119	1704819	49.73	ppb		93
95) 1,4-dichlorobenzene	15.692	146	924649	49.24	ppb		99
96) 1,2-dichlorobenzene	16.061	146	966577	49.84	ppb		98
97) n-butylbenzene	16.114	91	1448093	48.48	ppb		85
98) 1,2-dibromo-3-chloropr...	16.547	75	86291	43.40	ppb	#	75
99) 1,3,5-trichlorobenzene	17.353	180	717738	47.71	ug/L		95
100) 1,2,4-trichlorobenzene	17.893	180	720733	50.82	ppb		94
101) hexachlorobutadiene	18.182	225	325477	49.72	ppb		95
102) naphthalene	18.159	128	1787103	48.93	ppb		100
103) 2-Methylnaphthalene	19.528	142	481487	27.19	ug/L		98
104) 1-Methylnaphthalene	19.777	142	390825	26.89	ug/L		96
105) 1,2,3-trichlorobenzene	18.366	180	656581	50.79	ppb		93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140606\
Data File : U20311.D
Acq On : 6 Jun 2014 11:04 pm
Operator : garyk
Sample : icv915-50
Misc : ms31928,msu915,,,,5,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 09 11:59:31 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Tomasz Torski
07/07/14 14:02

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20827.D
Acq On : 3 Jul 2014 8:26 am
Operator : GaryK
Sample : cc915-50
Misc : ms32206,msu934,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 03 11:23:55 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.594	65	148159	50.00	ppb		0.00
4) pentafluorobenzene	8.976	168	322439	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.844	114	534300	50.00	ppb		0.00
66) chlorobenzene-d5	13.098	82	230605	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.663	152	352796	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.614	113	216845	62.14	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 124.28%				
60) toluene-d8 (s)	11.640	98	561949	55.14	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 110.28%				
82) bromofluorobenzene (s)	14.328	95	228204	51.06	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.12%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	6.290	59	156279	497.86	ppb		94
3) Ethanol	5.593	45	258868m	5654.21	ppb		
5) dichlorodifluoromethane	4.340	85	189626	58.17	ppb		97
6) chloromethane	4.553	50	427405	49.78	ppb		99
7) vinyl chloride	4.804	62	282454	46.12	ppb		96
8) bromomethane	5.282	96	164065	50.62	ppb		93
9) chloroethane	5.422	64	134582	48.19	ppb		98
10) ethyl ether	6.290	59	156389	47.93	ppb		90
11) acetonitrile	6.070	41	26775m	48.05	ppb		
12) trichlorofluoromethane	6.067	101	323483	48.10	ppb		98
13) freon-113	6.832	101	214796	50.45	ppb		90
14) acrolein	6.072	56	3487	6.04	ppb		92
15) 1,1-dichloroethene	6.633	96	175452	48.10	ppb		98
16) acetone	6.205	58	47783m	52.53	ppb		
17) Methyl Acetate	6.820	43	171382	49.92	ppb	#	87
18) methylene chloride	6.780	84	193964	49.16	ppb	#	83
19) methyl tert butyl ether	7.562	73	396536	41.32	ppb		88
20) acrylonitrile	6.701	53	85104	48.35	ppb		99
21) allyl chloride	6.875	41	398533	49.76	ppb		92
22) trans-1,2-dichloroethene	7.468	96	194106	46.31	ppb		95
23) iodomethane	6.689	142	374470	51.02	ppb		98
24) carbon disulfide	7.054	76	529780	48.97	ppb		98
25) propionitrile	8.081	54	18422	52.79	ppb		100
26) vinyl acetate	7.822	43	351268	61.98	ppb		96
27) chloroprene	8.084	53	307688	48.06	ppb		90
28) di-isopropyl ether	8.124	45	799313	52.01	ppb		96
29) methacrylonitrile	8.240	41	108833	47.59	ppb		91
30) 2-butanone	8.136	72	22080	45.97	ppb	#	30
31) Ethyl Acetate	8.120	43	678246	50.68	ug/L		94
32) Hexane	8.107	41	320686	49.10	ppb	#	79
33) 1,1-dichloroethane	7.719	63	378151	49.65	ppb		98
34) tert-butyl ethyl ether	8.519	59	534550	39.68	ppb		98
35) isobutyl alcohol	8.545	43	117079	238.89	ppb	#	38
36) 2,2-dichloropropane	8.575	77	209687	45.56	ppb		87

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20827.D
Acq On : 3 Jul 2014 8:26 am
Operator : GaryK
Sample : cc915-50
Misc : ms32206,msu934,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 03 11:23:55 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) cis-1,2-dichloroethene	8.289	96	212267	47.93	ppb		92
38) bromochloromethane	8.454	128	116943	51.79	ppb	#	85
39) chloroform	8.492	83	320759	49.08	ppb		99
41) Tetrahydrofuran	8.831	42	61963	48.47	ppb		92
42) 1,1,1-trichloroethane	9.242	97	296423	49.34	ppb		98
44) Cyclohexane	9.526	56	402912	50.73	ppb		88
45) carbon tetrachloride	9.606	117	278041	51.67	ppb		100
46) 1,1-dichloropropene	9.418	75	201320	47.95	ppb		89
47) benzene	9.642	78	566828	45.78	ppb		96
48) 1,2-dichloroethane	9.143	62	229944	47.15	ppb		99
49) tert-amyl methyl ether	9.764	73	378256	41.35	ppb		86
50) heptane	10.123	43	265866	51.35	ppb	#	63
51) trichloroethene	10.262	95	169583	45.36	ppb		73
52) 1,2-dichloropropane	10.230	63	170812	47.41	ppb		100
53) dibromomethane	10.203	93	101507	49.36	ppb		90
54) bromodichloromethane	10.317	83	205154	49.05	ppb		96
55) Methylcyclohexane	10.779	83	279660	49.89	ppb		88
56) 2-chloroethyl vinyl ether	10.704	63	56270	35.34	ppb		96
57) methyl methacrylate	10.423	69	57172	42.85	ppb	#	74
58) 1,4-dioxane	10.447	88	5835m	257.37	ppb		
59) cis-1,3-dichloropropene	10.937	75	182023	43.21	ppb		88
61) 4-methyl-2-pentanone	11.046	43	193071	53.27	ppb		94
62) toluene	11.712	92	303887	45.47	ppb		100
63) trans-1,3-dichloropropene	11.358	75	136254	41.87	ppb		95
64) 1,1,2-trichloroethane	11.531	83	89149	45.40	ppb		94
65) ethyl methacrylate	11.742	69	119086	43.28	ppb	#	69
67) tetrachloroethene	12.455	166	154541	48.47	ppb		97
68) 1,3-dichloropropane	11.766	76	155055	45.12	ppb		93
69) dibromochloromethane	12.055	129	169026	49.24	ppb		99
70) 1,2-dibromoethane	12.308	107	123487	47.17	ppb		97
71) 2-hexanone	11.923	43	162583	57.24	ppb		98
72) chlorobenzene	13.135	112	398537	47.46	ppb		86
73) 1,1,1,2-tetrachloroethane	13.054	131	219167	52.84	ppb		97
74) ethylbenzene	13.310	91	626577	47.40	ppb		91
75) m,p-xylene	13.494	106	526912	94.89	ppb		84
76) o-xylene	13.907	106	306957	49.29	ppb		84
77) styrene	13.835	104	403358	46.75	ppb		97
78) bromoform	13.662	173	112885	47.34	ppb		100
79) trans-1,4-dichloro-2-b...	14.064	53	20500	18.22	ppb	#	1
81) isopropylbenzene	14.271	105	818897	47.91	ppb		95
83) bromobenzene	14.559	156	214287	47.12	ppb	#	75
84) 1,1,2,2-tetrachloroethane	13.913	83	183038	52.81	ppb		97
85) 1,2,3-trichloropropane	14.063	75	151800	37.66	ppb		98
86) n-propylbenzene	14.717	91	871276	46.98	ppb		92
87) 2-chlorotoluene	14.834	91	552902	46.72	ppb		82
88) 4-chlorotoluene	14.911	91	535034	45.00	ppb		82
89) 1,3,5-trimethylbenzene	14.994	105	807791	48.02	ppb		94
90) tert-butylbenzene	15.299	91	434285	47.36	ppb		81
91) 1,2,4-trimethylbenzene	15.403	105	812210	47.67	ppb		98
92) sec-butylbenzene	15.522	105	1056955	49.51	ppb		93

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20827.D
Acq On : 3 Jul 2014 8:26 am
Operator : GaryK
Sample : cc915-50
Misc : ms32206,msu934,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 03 11:23:55 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

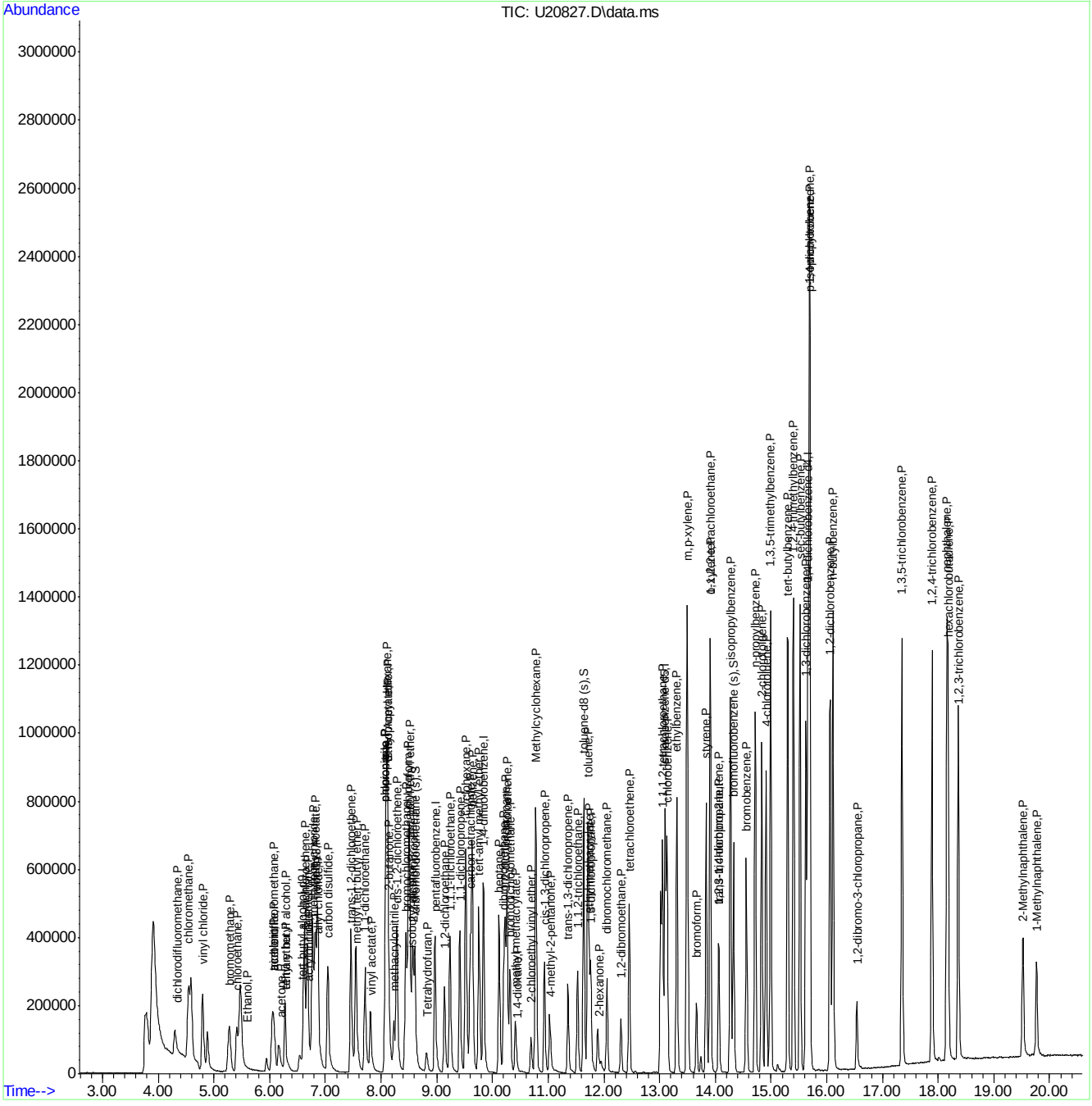
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
93)	1,3-dichlorobenzene	15.625	146	475266	47.37	ppb		97
94)	p-isopropyltoluene	15.695	119	941782	48.96	ppb		93
95)	1,4-dichlorobenzene	15.692	146	484991	46.02	ppb		99
96)	1,2-dichlorobenzene	16.061	146	531189	48.81	ppb		95
97)	n-butylbenzene	16.115	91	825257	49.23	ppb		85
98)	1,2-dibromo-3-chloropr...	16.543	75	50101	44.90	ppb	#	63
99)	1,3,5-trichlorobenzene	17.353	180	443085	52.49	ug/L		95
100)	1,2,4-trichlorobenzene	17.892	180	428097	53.80	ppb		93
101)	hexachlorobutadiene	18.180	225	194861	53.05	ppb		95
102)	naphthalene	18.158	128	1038935	50.69	ppb		100
103)	2-Methylnaphthalene	19.528	142	238005	23.95	ug/L		98
104)	1-Methylnaphthalene	19.775	142	189304	23.21	ug/L		98
105)	1,2,3-trichlorobenzene	18.365	180	383479	52.86	ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20827.D
Acq On : 3 Jul 2014 8:26 am
Operator : GaryK
Sample : cc915-50
Misc : ms32206,msu934,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 03 11:23:55 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration



ACCUTEST LABORATORIES MC31799

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20852.D
Acq On : 3 Jul 2014 7:46 pm
Operator : GaryK
Sample : ecc915-50
Misc : ms32217,msu934,,,,5,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 05 09:28:24 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.588	65	126827	50.00	ppb		0.00
4) pentafluorobenzene	8.975	168	319267	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.843	114	527781	50.00	ppb		0.00
66) chlorobenzene-d5	13.099	82	220147	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.662	152	335038	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.613	113	210467	60.91	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 121.82%				
60) toluene-d8 (s)	11.639	98	559190	55.54	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 111.08%				
82) bromofluorobenzene (s)	14.327	95	222396	52.40	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 104.80%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	6.290	59	157055	584.49	ppb		91
3) Ethanol	5.568	45	256593	6569.40	ppb		96
5) dichlorodifluoromethane	4.347	85	185612	57.51	ppb		99
6) chloromethane	4.553	50	456150	53.66	ppb		98
7) vinyl chloride	4.806	62	299554	49.39	ppb		98
8) bromomethane	5.283	96	171188	53.34	ppb		88
9) chloroethane	5.422	64	142307	51.46	ppb		99
10) ethyl ether	6.290	59	157353	48.70	ppb		90
11) acetonitrile	6.068	41	22956	41.61	ppb	#	62
12) trichlorofluoromethane	6.068	101	345820	51.93	ppb		100
13) freon-113	6.832	101	208592	49.48	ppb		89
14) acrolein	6.068	56	2856	5.00	ppb		92
15) 1,1-dichloroethene	6.631	96	163480	45.26	ppb		97
16) acetone	6.212	58	24899	27.64	ppb	#	38
17) Methyl Acetate	6.818	43	169670	49.92	ppb	#	86
18) methylene chloride	6.780	84	188819	48.33	ppb	#	80
19) methyl tert butyl ether	7.565	73	371191	39.07	ppb		88
20) acrylonitrile	6.702	53	83861	48.12	ppb		95
21) allyl chloride	6.873	41	334336	42.16	ppb		89
22) trans-1,2-dichloroethene	7.468	96	189983	45.78	ppb		95
23) iodomethane	6.689	142	364196	50.11	ppb		96
24) carbon disulfide	7.055	76	504397	47.08	ppb		96
25) propionitrile	8.082	54	15840	45.85	ppb		100
26) vinyl acetate	7.822	43	331560	59.08	ppb		97
27) chloroprene	8.083	53	300462	47.39	ppb		92
28) di-isopropyl ether	8.123	45	789592	51.88	ppb		98
29) methacrylonitrile	8.241	41	110925	48.99	ppb		95
30) 2-butanone	8.135	72	14555	30.60	ppb	#	1
31) Ethyl Acetate	8.118	43	621569	46.90	ug/L		89
32) Hexane	8.107	41	319567	49.41	ppb	#	79
33) 1,1-dichloroethane	7.719	63	370081	49.07	ppb		99
34) tert-butyl ethyl ether	8.519	59	493603	37.00	ppb		97
35) isobutyl alcohol	8.542	43	108116	221.74	ppb	#	38
36) 2,2-dichloropropane	8.575	77	204812	44.94	ppb		91

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20852.D
Acq On : 3 Jul 2014 7:46 pm
Operator : GaryK
Sample : ecc915-50
Misc : ms32217,msu934,,,,5,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 05 09:28:24 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) cis-1,2-dichloroethene	8.290	96	206172	47.02	ppb		97
38) bromochloromethane	8.453	128	114073	51.02	ppb		88
39) chloroform	8.492	83	313526	48.45	ppb		100
41) Tetrahydrofuran	8.836	42	60376	47.69	ppb		80
42) 1,1,1-trichloroethane	9.242	97	296468	49.84	ppb		96
44) Cyclohexane	9.526	56	388572	49.53	ppb		87
45) carbon tetrachloride	9.605	117	255884	48.14	ppb		98
46) 1,1-dichloropropene	9.417	75	197208	47.55	ppb		90
47) benzene	9.641	78	557272	45.57	ppb		94
48) 1,2-dichloroethane	9.142	62	236189	49.03	ppb		98
49) tert-amyl methyl ether	9.764	73	345268	38.21	ppb		87
50) heptane	10.122	43	263224	51.47	ppb	#	66
51) trichloroethene	10.261	95	168652	45.67	ppb		75
52) 1,2-dichloropropane	10.229	63	175958	49.44	ppb		100
53) dibromomethane	10.203	93	101539	49.99	ppb		90
54) bromodichloromethane	10.315	83	199625	48.32	ppb		97
55) Methylcyclohexane	10.779	83	273059	49.32	ppb		87
56) 2-chloroethyl vinyl ether	10.701	63	62395	39.67	ppb		96
57) methyl methacrylate	10.419	69	61072	46.34	ppb	#	75
58) 1,4-dioxane	10.448	88	6024	268.34	ppb		79
59) cis-1,3-dichloropropene	10.936	75	175877	42.26	ppb		90
61) 4-methyl-2-pentanone	11.043	43	181972	50.83	ppb		93
62) toluene	11.712	92	309036	46.81	ppb		99
63) trans-1,3-dichloropropene	11.358	75	131077	40.78	ppb		94
64) 1,1,2-trichloroethane	11.530	83	94607	48.77	ppb		98
65) ethyl methacrylate	11.741	69	124536	45.82	ppb	#	71
67) tetrachloroethene	12.455	166	159664	52.45	ppb		95
68) 1,3-dichloropropane	11.764	76	161420	49.21	ppb		94
69) dibromochloromethane	12.054	129	156145	47.65	ppb		98
70) 1,2-dibromoethane	12.307	107	128920	51.58	ppb		97
71) 2-hexanone	11.924	43	109753	40.48	ppb		98
72) chlorobenzene	13.134	112	406306	50.68	ppb		86
73) 1,1,1,2-tetrachloroethane	13.053	131	210953	53.28	ppb		99
74) ethylbenzene	13.310	91	620696	49.19	ppb		93
75) m,p-xylene	13.494	106	526887	99.40	ppb		86
76) o-xylene	13.907	106	299370	50.36	ppb		86
77) styrene	13.835	104	402825	48.90	ppb		97
78) bromoform	13.661	173	94317	41.43	ppb		100
79) trans-1,4-dichloro-2-b...	14.066	53	3553	3.31	ppb	#	1
81) isopropylbenzene	14.270	105	802680	49.45	ppb		96
83) bromobenzene	14.559	156	216695	50.18	ppb	#	77
84) 1,1,2,2-tetrachloroethane	13.913	83	177554	53.94	ppb		99
85) 1,2,3-trichloropropane	14.062	75	130385	34.06	ppb		99
86) n-propylbenzene	14.716	91	852302	48.40	ppb		92
87) 2-chlorotoluene	14.833	91	544692	48.47	ppb		83
88) 4-chlorotoluene	14.910	91	534077	47.30	ppb		84
89) 1,3,5-trimethylbenzene	14.993	105	801263	50.15	ppb		94
90) tert-butylbenzene	15.298	91	438695	50.38	ppb		89
91) 1,2,4-trimethylbenzene	15.402	105	803425	49.65	ppb		96
92) sec-butylbenzene	15.521	105	1041283	51.36	ppb		92

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20852.D
Acq On : 3 Jul 2014 7:46 pm
Operator : GaryK
Sample : ecc915-50
Misc : ms32217,msu934,,,,5,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 05 09:28:24 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

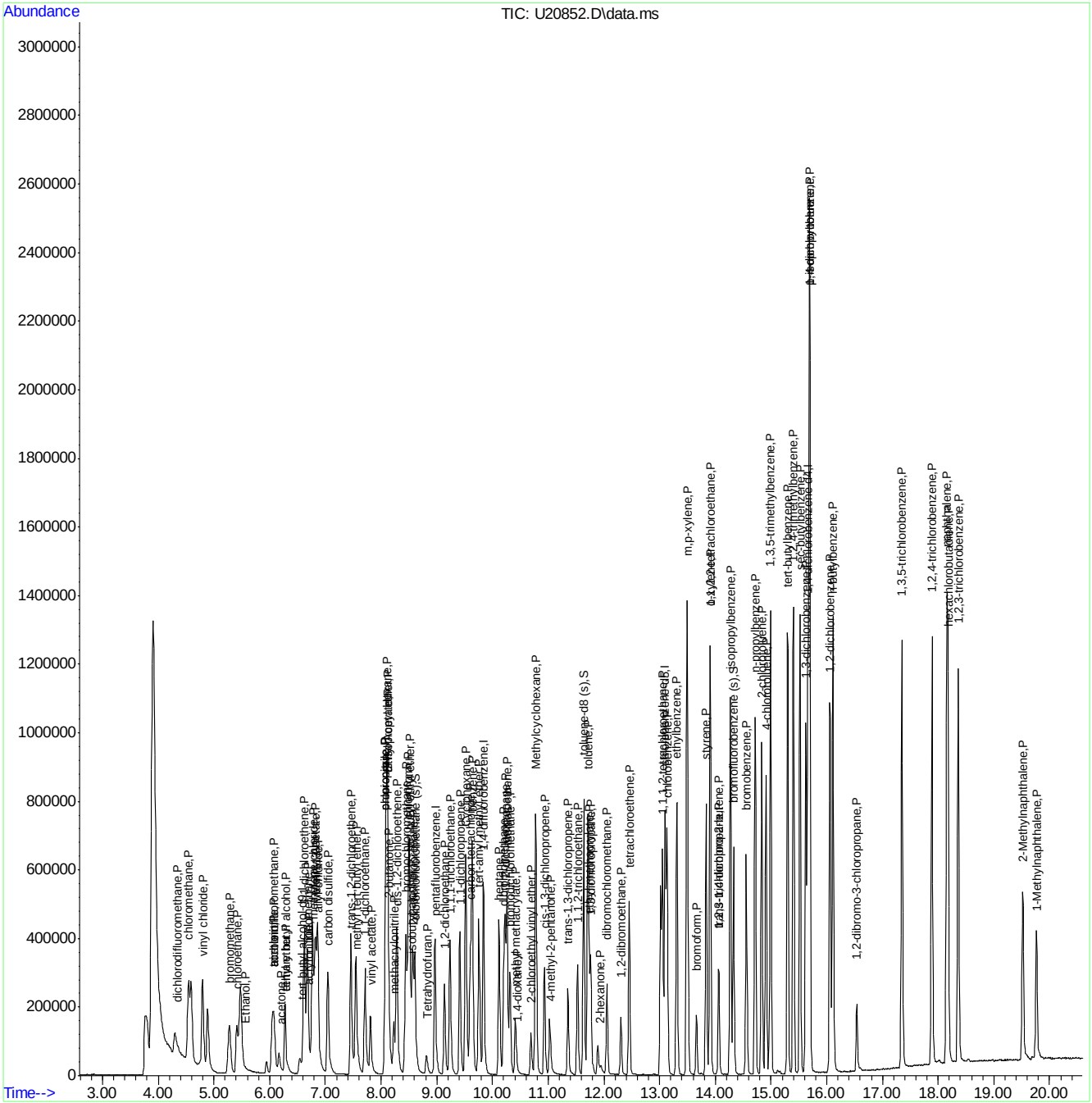
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93)	1,3-dichlorobenzene	15.624	146	472369	49.58	ppb	98
94)	p-isopropyltoluene	15.695	119	926616	50.72	ppb	95
95)	1,4-dichlorobenzene	15.691	146	481945	48.16	ppb	98
96)	1,2-dichlorobenzene	16.059	146	532626	51.54	ppb	95
97)	n-butylbenzene	16.113	91	799818	50.25	ppb	84
98)	1,2-dibromo-3-chloropr...	16.542	75	49981	47.17	ppb	80
99)	1,3,5-trichlorobenzene	17.352	180	450594	56.21	ug/L	94
100)	1,2,4-trichlorobenzene	17.891	180	447547	59.22	ppb	92
101)	hexachlorobutadiene	18.180	225	205430	58.89	ppb	94
102)	naphthalene	18.157	128	1105019	56.77	ppb	100
103)	2-Methylnaphthalene	19.525	142	312590	33.13	ug/L	98
104)	1-Methylnaphthalene	19.772	142	261688	33.79	ug/L	99
105)	1,2,3-trichlorobenzene	18.363	180	417798	60.64	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140703\
Data File : U20852.D
Acq On : 3 Jul 2014 7:46 pm
Operator : GaryK
Sample : ecc915-50
Misc : ms32217,msu934,,,,5,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 05 09:28:24 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration



Manual Integrations APPROVED
(compounds with "m" flag)
Tomasz Torski
07/08/14 08:54

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140707\
Data File : U20903.D
Acq On : 7 Jul 2014 9:45 am
Operator : GaryK
Sample : cc915-50
Misc : ms32230,msu936,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 07 13:10:00 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.601	65	382704	50.00	ppb		0.00
4) pentafluorobenzene	8.974	168	792372	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.842	114	1287418	50.00	ppb		0.00
66) chlorobenzene-d5	13.097	82	547116	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.663	152	802379	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.612	113	490142	57.16	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 114.32%				
60) toluene-d8 (s)	11.639	98	1344818	54.76	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 109.52%				
82) bromofluorobenzene (s)	14.327	95	521611	51.32	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 102.64%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	6.287	59	386748	476.98	ppb		92
3) Ethanol	5.586	45	844464m	7177.66	ppb		
5) dichlorodifluoromethane	4.356	85	569969	71.16	ppb		100
6) chloromethane	4.556	50	1213163	57.50	ppb		99
7) vinyl chloride	4.811	62	737707	49.01	ppb		97
8) bromomethane	5.286	96	413055	51.86	ppb		93
9) chloroethane	5.421	64	287563	41.90	ppb		99
10) ethyl ether	6.287	59	384453	47.95	ppb		88
11) acetonitrile	6.070	41	72494m	52.94	ppb		
12) trichlorofluoromethane	6.069	101	873808	52.87	ppb		99
13) freon-113	6.833	101	513790	49.11	ppb		88
14) acrolein	6.056	56	63564	44.81	ppb		95
15) 1,1-dichloroethene	6.632	96	398942	44.51	ppb		99
16) acetone	6.211	58	131500	58.82	ppb	#	84
17) Methyl Acetate	6.818	43	434192	51.47	ppb	#	86
18) methylene chloride	6.780	84	443530	45.74	ppb	#	76
19) methyl tert butyl ether	7.562	73	1003288	42.55	ppb		85
20) acrylonitrile	6.697	53	213874	49.44	ppb		99
21) allyl chloride	6.873	41	985888	50.09	ppb		90
22) trans-1,2-dichloroethene	7.465	96	443183	43.03	ppb		94
23) iodomethane	6.689	142	889433	49.31	ppb		96
24) carbon disulfide	7.053	76	1256846	47.27	ppb		97
25) propionitrile	8.084	54	43637	50.89	ppb		100
26) vinyl acetate	7.818	43	1339457	96.17	ppb		97
27) chloroprene	8.083	53	769595	48.91	ppb		91
28) di-isopropyl ether	8.122	45	1947092	51.55	ppb		92
29) methacrylonitrile	8.237	41	284819	50.68	ppb		90
30) 2-butanone	8.134	72	58112	49.23	ppb	#	51
31) Ethyl Acetate	8.118	43	1721810	52.35	ug/L		98
32) Hexane	8.105	41	812684	50.63	ppb	#	77
33) 1,1-dichloroethane	7.718	63	897252	47.94	ppb		100
34) tert-butyl ethyl ether	8.518	59	1375580	41.55	ppb		97
35) isobutyl alcohol	8.540	43	300512	250.22	ppb		87
36) 2,2-dichloropropane	8.576	77	549497	48.58	ppb		91

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140707\
Data File : U20903.D
Acq On : 7 Jul 2014 9:45 am
Operator : GaryK
Sample : cc915-50
Misc : ms32230,msu936,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 07 13:10:00 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) cis-1,2-dichloroethene	8.288	96	493429	45.34	ppb		97
38) bromochloromethane	8.453	128	281048	50.65	ppb		88
39) chloroform	8.491	83	776691	48.36	ppb		99
41) Tetrahydrofuran	8.831	42	158368	50.41	ppb		83
42) 1,1,1-trichloroethane	9.241	97	743440	50.36	ppb		99
44) Cyclohexane	9.526	56	987145	51.58	ppb		86
45) carbon tetrachloride	9.605	117	720088	55.54	ppb		99
46) 1,1-dichloropropene	9.416	75	491931	48.63	ppb		90
47) benzene	9.640	78	1369115	45.90	ppb		96
48) 1,2-dichloroethane	9.141	62	598414	50.93	ppb		96
49) tert-amyl methyl ether	9.762	73	954184	43.29	ppb		87
50) heptane	10.120	43	690349	55.34	ppb	#	66
51) trichloroethene	10.261	95	415332	46.11	ppb		73
52) 1,2-dichloropropane	10.227	63	425012	48.95	ppb		99
53) dibromomethane	10.202	93	258232	52.12	ppb		92
54) bromodichloromethane	10.315	83	519157	51.51	ppb		95
55) Methylcyclohexane	10.778	83	659570	48.84	ppb		86
56) 2-chloroethyl vinyl ether	10.700	63	145621	37.95	ppb		94
57) methyl methacrylate	10.419	69	151510	47.13	ppb	#	70
58) 1,4-dioxane	10.451	88	21337	383.22	ppb		87
59) cis-1,3-dichloropropene	10.935	75	489587	48.23	ppb		89
61) 4-methyl-2-pentanone	11.040	43	501640	57.45	ppb		92
62) toluene	11.711	92	771293	47.90	ppb		98
63) trans-1,3-dichloropropene	11.357	75	381233	48.62	ppb		96
64) 1,1,2-trichloroethane	11.529	83	227253	48.03	ppb		95
65) ethyl methacrylate	11.740	69	299717	45.20	ppb	#	65
67) tetrachloroethene	12.454	166	401820	53.11	ppb		95
68) 1,3-dichloropropane	11.764	76	400075	49.07	ppb		92
69) dibromochloromethane	12.054	129	436966	53.66	ppb		99
70) 1,2-dibromoethane	12.306	107	313922	50.54	ppb		98
71) 2-hexanone	11.906	43	453390	67.28	ppb		99
72) chlorobenzene	13.134	112	995321	49.96	ppb		84
73) 1,1,1,2-tetrachloroethane	13.053	131	541052	54.98	ppb		96
74) ethylbenzene	13.310	91	1526502	48.67	ppb		94
75) m,p-xylene	13.494	106	1288540	97.81	ppb		83
76) o-xylene	13.907	106	729100	49.35	ppb		85
77) styrene	13.834	104	972473	47.51	ppb		97
78) bromoform	13.661	173	292493	51.70	ppb		99
79) trans-1,4-dichloro-2-b...	14.062	53	95938	35.93	ppb	#	60
81) isopropylbenzene	14.271	105	1970985	50.70	ppb		95
83) bromobenzene	14.559	156	519014	50.18	ppb	#	72
84) 1,1,2,2-tetrachloroethane	13.913	83	434124	55.07	ppb		98
85) 1,2,3-trichloropropane	14.062	75	400496	43.69	ppb		98
86) n-propylbenzene	14.716	91	2077620	49.26	ppb		90
87) 2-chlorotoluene	14.834	91	1321710	49.11	ppb		82
88) 4-chlorotoluene	14.910	91	1289042	47.67	ppb		80
89) 1,3,5-trimethylbenzene	14.994	105	1977075	51.67	ppb		93
90) tert-butylbenzene	15.299	91	1079378	51.76	ppb		81
91) 1,2,4-trimethylbenzene	15.403	105	1978500	51.05	ppb		98
92) sec-butylbenzene	15.522	105	2555737	52.63	ppb		92

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140707\
Data File : U20903.D
Acq On : 7 Jul 2014 9:45 am
Operator : GaryK
Sample : cc915-50
Misc : ms32230,msu936,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 07 13:10:00 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

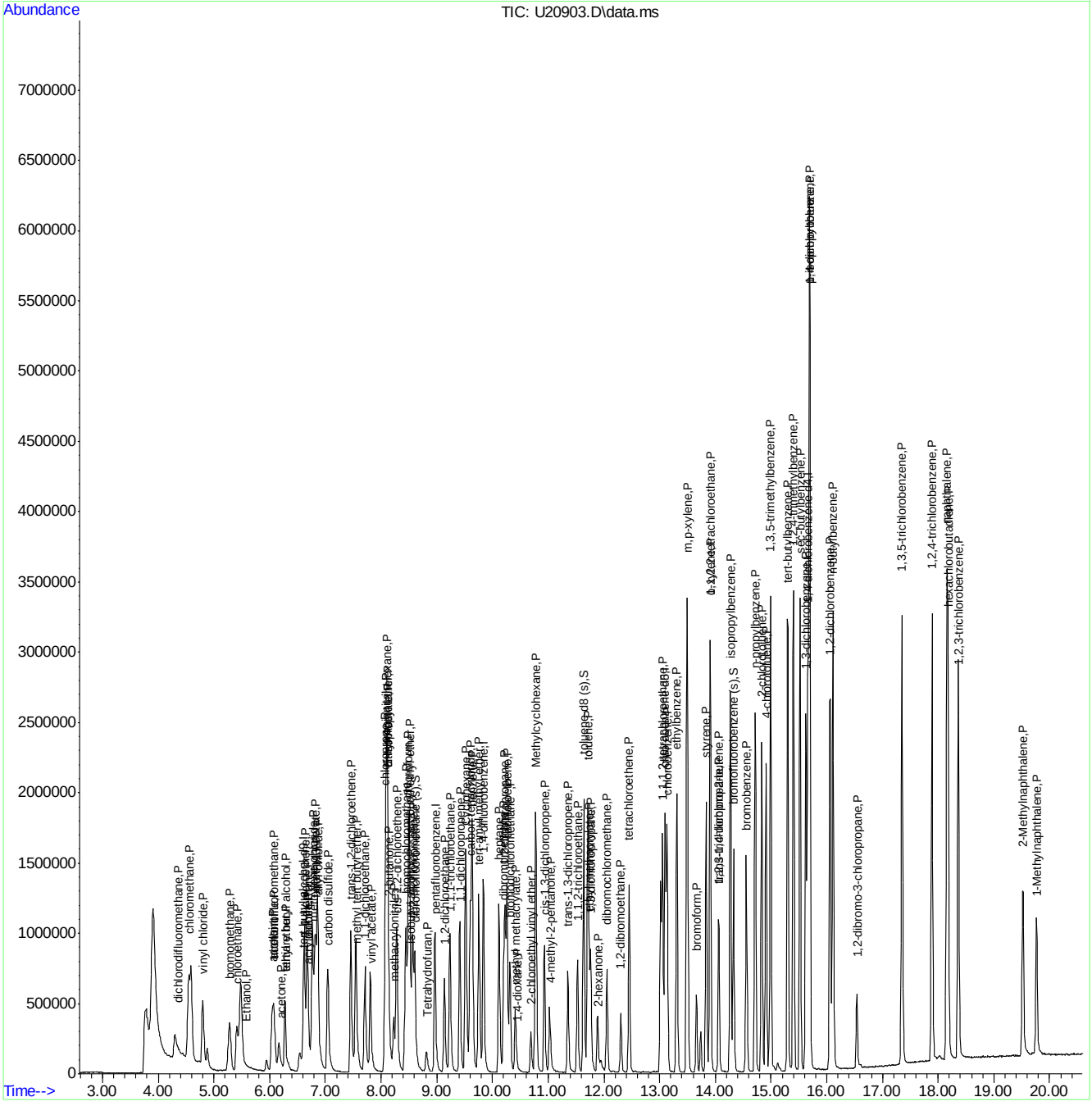
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
93)	1,3-dichlorobenzene	15.624	146	1155696	50.65	ppb		98
94)	p-isopropyltoluene	15.695	119	2277849	52.06	ppb		94
95)	1,4-dichlorobenzene	15.692	146	1158567	48.34	ppb		99
96)	1,2-dichlorobenzene	16.060	146	1280095	51.72	ppb		96
97)	n-butylbenzene	16.114	91	1984802	52.06	ppb		84
98)	1,2-dibromo-3-chloropr...	16.546	75	132903	52.37	ppb	#	63
99)	1,3,5-trichlorobenzene	17.353	180	1114731	58.07	ug/L		95
100)	1,2,4-trichlorobenzene	17.892	180	1108606	61.26	ppb		94
101)	hexachlorobutadiene	18.181	225	500023	59.86	ppb		95
102)	naphthalene	18.158	128	2785609	59.76	ppb		100
103)	2-Methylnaphthalene	19.526	142	793256	35.10	ug/L		98
104)	1-Methylnaphthalene	19.770	142	656445	35.39	ug/L		99
105)	1,2,3-trichlorobenzene	18.365	180	1033463	62.64	ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140707\
Data File : U20903.D
Acq On : 7 Jul 2014 9:45 am
Operator : GaryK
Sample : cc915-50
Misc : ms32230,msu936,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 07 13:10:00 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration



ACCUTEST LABORATORIES MC31799

Manual Integrations APPROVED
(compounds with "m" flag)
Tomasz Torski
07/08/14 08:54

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140707\
Data File : U20928.D
Acq On : 7 Jul 2014 9:06 pm
Operator : GaryK
Sample : ecc915-50
Misc : ms32235,msu936,,,,5,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 08 07:58:46 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.612	65	329984	50.00	ppb		0.02
4) pentafluorobenzene	8.975	168	824513	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.843	114	1358757	50.00	ppb		0.00
66) chlorobenzene-d5	13.099	82	501653	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.662	152	787738	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.615	113	539252	60.43	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 120.86%				
60) toluene-d8 (s)	11.640	98	1316761	50.80	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.60%				
82) bromofluorobenzene (s)	14.327	95	504261	50.53	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.06%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	6.290	59	409671	585.97	ppb		91
3) Ethanol	5.606	45	694205m	6836.65	ppb		
5) dichlorodifluoromethane	4.355	85	636314	76.34	ppb		88
6) chloromethane	4.555	50	1360680	61.98	ppb		100
7) vinyl chloride	4.811	62	884167	56.45	ppb		96
8) bromomethane	5.286	96	480777	58.01	ppb		91
9) chloroethane	5.424	64	342748	47.99	ppb		99
10) ethyl ether	6.291	59	410686	49.22	ppb		92
11) acetonitrile	6.063	41	55355m	38.85	ppb		
12) trichlorofluoromethane	6.068	101	1021621	59.41	ppb		99
13) freon-113	6.835	101	508620	46.72	ppb		88
14) acrolein	6.060	56	53797	36.45	ppb		92
15) 1,1-dichloroethene	6.633	96	414477	44.44	ppb		98
16) acetone	6.219	58	64844	27.88	ppb		85
17) Methyl Acetate	6.825	43	410918	46.81	ppb	#	86
18) methylene chloride	6.782	84	466773	46.26	ppb	#	80
19) methyl tert butyl ether	7.565	73	1016688	41.43	ppb		91
20) acrylonitrile	6.703	53	200277	44.50	ppb		99
21) allyl chloride	6.875	41	966826	47.20	ppb		92
22) trans-1,2-dichloroethene	7.468	96	469898	43.84	ppb		95
23) iodomethane	6.689	142	932243	49.67	ppb		92
24) carbon disulfide	7.054	76	1281614	46.32	ppb		97
25) propionitrile	8.084	54	44484	49.85	ppb		100
26) vinyl acetate	7.821	43	1203648	83.05	ppb		97
27) chloroprene	8.084	53	802625	49.02	ppb		90
28) di-isopropyl ether	8.124	45	2007583	51.08	ppb		96
29) methacrylonitrile	8.240	41	274234	46.89	ppb		96
30) 2-butanone	8.133	72	34737	28.28	ppb	#	1
31) Ethyl Acetate	8.118	43	1558869	45.55	ug/L		88
32) Hexane	8.106	41	782380	46.84	ppb	#	78
33) 1,1-dichloroethane	7.720	63	966036	49.60	ppb		99
34) tert-butyl ethyl ether	8.520	59	1381169	40.09	ppb		99
35) isobutyl alcohol	8.540	43	271608	215.27	ppb		94
36) 2,2-dichloropropane	8.577	77	504935	42.90	ppb		91

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140707\
Data File : U20928.D
Acq On : 7 Jul 2014 9:06 pm
Operator : GaryK
Sample : ecc915-50
Misc : ms32235,msu936,,,,5,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 08 07:58:46 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) cis-1,2-dichloroethene	8.290	96	531893	46.97	ppb		96
38) bromochloromethane	8.456	128	299488	51.87	ppb	#	86
39) chloroform	8.493	83	843419	50.47	ppb		100
41) Tetrahydrofuran	8.842	42	154723	47.33	ppb		83
42) 1,1,1-trichloroethane	9.242	97	756139	49.22	ppb		98
44) Cyclohexane	9.527	56	977925	48.42	ppb		87
45) carbon tetrachloride	9.606	117	717976	52.47	ppb		98
46) 1,1-dichloropropene	9.418	75	542939	50.85	ppb		88
47) benzene	9.641	78	1489220	47.30	ppb		97
48) 1,2-dichloroethane	9.143	62	644649	51.98	ppb		98
49) tert-amyl methyl ether	9.764	73	949103	40.80	ppb		88
50) heptane	10.123	43	631578	47.97	ppb	#	64
51) trichloroethene	10.262	95	464805	48.89	ppb		75
52) 1,2-dichloropropane	10.229	63	440785	48.10	ppb		99
53) dibromomethane	10.203	93	268222	51.29	ppb		93
54) bromodichloromethane	10.317	83	544503	51.19	ppb		95
55) Methylcyclohexane	10.779	83	668468	46.90	ppb		86
56) 2-chloroethyl vinyl ether	10.703	63	126179	31.16	ppb		96
57) methyl methacrylate	10.422	69	128450	37.86	ppb		85
58) 1,4-dioxane	10.449	88	16441	283.62	ppb		99
59) cis-1,3-dichloropropene	10.937	75	454972	42.47	ppb		88
61) 4-methyl-2-pentanone	11.044	43	417122	45.26	ppb		93
62) toluene	11.712	92	746811	43.94	ppb		95
63) trans-1,3-dichloropropene	11.358	75	314931	38.06	ppb		98
64) 1,1,2-trichloroethane	11.529	83	205532	41.16	ppb		96
65) ethyl methacrylate	11.743	69	263556	37.66	ppb	#	2
67) tetrachloroethene	12.455	166	384700	55.46	ppb		95
68) 1,3-dichloropropane	11.765	76	348204	46.58	ppb		91
69) dibromochloromethane	12.055	129	401921	53.83	ppb		98
70) 1,2-dibromoethane	12.308	107	281453	49.42	ppb		97
71) 2-hexanone	11.919	43	209300	33.87	ppb		99
72) chlorobenzene	13.135	112	936872	51.28	ppb		87
73) 1,1,1,2-tetrachloroethane	13.054	131	551092	61.08	ppb		97
74) ethylbenzene	13.310	91	1491799	51.88	ppb		91
75) m,p-xylene	13.494	106	1238163	102.50	ppb		84
76) o-xylene	13.907	106	734664	54.23	ppb		88
77) styrene	13.834	104	942723	50.23	ppb		97
78) bromoform	13.661	173	266085	51.29	ppb		100
79) trans-1,4-dichloro-2-b...	14.064	53	48935	19.99	ppb	#	1
81) isopropylbenzene	14.270	105	1986035	52.03	ppb		94
83) bromobenzene	14.559	156	510976	50.33	ppb	#	78
84) 1,1,2,2-tetrachloroethane	13.913	83	409390	52.90	ppb		97
85) 1,2,3-trichloropropane	14.062	75	341825	37.98	ppb		99
86) n-propylbenzene	14.716	91	2060912	49.77	ppb		89
87) 2-chlorotoluene	14.833	91	1332448	50.43	ppb		82
88) 4-chlorotoluene	14.910	91	1269105	47.80	ppb		82
89) 1,3,5-trimethylbenzene	14.993	105	1966398	52.35	ppb		92
90) tert-butylbenzene	15.298	91	1090203	53.25	ppb		86
91) 1,2,4-trimethylbenzene	15.402	105	1975207	51.92	ppb		97
92) sec-butylbenzene	15.521	105	2494275	52.32	ppb		91

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140707\
Data File : U20928.D
Acq On : 7 Jul 2014 9:06 pm
Operator : GaryK
Sample : ecc915-50
Misc : ms32235,msu936,,,,5,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 08 07:58:46 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

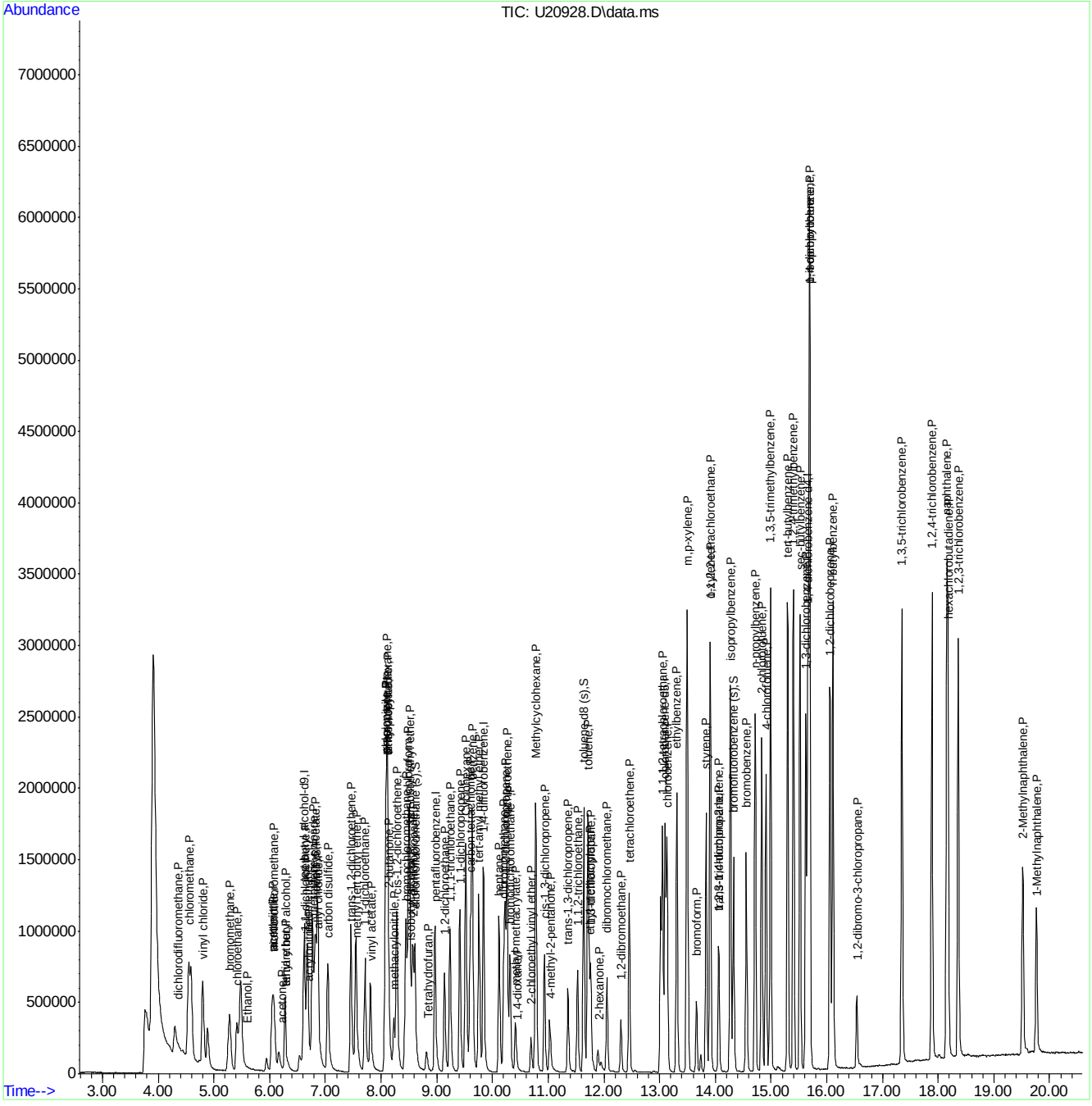
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
93) 1,3-dichlorobenzene	15.624	146	1158985	51.74	ppb		98
94) p-isopropyltoluene	15.694	119	2231667	51.95	ppb		96
95) 1,4-dichlorobenzene	15.691	146	1171683	49.80	ppb		100
96) 1,2-dichlorobenzene	16.060	146	1310789	53.95	ppb		97
97) n-butylbenzene	16.113	91	1954072	52.21	ppb		84
98) 1,2-dibromo-3-chloropr...	16.545	75	132554	53.21	ppb	#	64
99) 1,3,5-trichlorobenzene	17.352	180	1137515	60.35	ug/L		96
100) 1,2,4-trichlorobenzene	17.890	180	1145927	64.49	ppb		95
101) hexachlorobutadiene	18.180	225	505587	61.65	ppb		95
102) naphthalene	18.156	128	2828053	61.80	ppb		100
103) 2-Methylnaphthalene	19.524	142	852938	38.44	ug/L		97
104) 1-Methylnaphthalene	19.770	142	696092	38.22	ug/L		99
105) 1,2,3-trichlorobenzene	18.363	180	1067349	65.89	ppb		92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140707\
Data File : U20928.D
Acq On : 7 Jul 2014 9:06 pm
Operator : GaryK
Sample : ecc915-50
Misc : ms32235,msu936,,,,5,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 08 07:58:46 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration



Manual Integrations APPROVED
(compounds with "m" flag)
Tomasz Torski
07/08/14 15:47

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20931.D
Acq On : 8 Jul 2014 8:23 am
Operator : GaryK
Sample : cc915-50
Misc : ms32230,msu937,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 08 09:14:55 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.611	65	342685	50.00	ppb		0.01
4) pentafluorobenzene	8.975	168	823307	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.843	114	1393410	50.00	ppb		0.00
66) chlorobenzene-d5	13.098	82	616288	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.663	152	875492	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.614	113	519632	58.32	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 116.64%				
60) toluene-d8 (s)	11.640	98	1493568	56.19	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 112.38%				
82) bromofluorobenzene (s)	14.328	95	593526	53.52	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 107.04%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	6.291	59	404032	556.49	ppb		88
3) Ethanol	5.586	45	631135m	5967.65	ppb		
5) dichlorodifluoromethane	4.349	85	565648m	67.96	ppb		
6) chloromethane	4.557	50	1294198	59.04	ppb		97
7) vinyl chloride	4.811	62	819473	52.40	ppb		96
8) bromomethane	5.284	96	446069	53.90	ppb		94
9) chloroethane	5.424	64	313831	44.01	ppb		98
10) ethyl ether	6.291	59	403196	48.39	ppb		93
11) acetonitrile	6.063	41	61282m	43.07	ppb		
12) trichlorofluoromethane	6.069	101	949465	55.29	ppb		98
13) freon-113	6.837	101	562040	51.70	ppb		89
14) acrolein	6.055	56	94704	64.25	ppb		85
15) 1,1-dichloroethene	6.636	96	440442	47.29	ppb		99
16) acetone	6.225	58	121691	52.39	ppb		93
17) Methyl Acetate	6.821	43	417744	47.66	ppb	#	88
18) methylene chloride	6.782	84	473287	46.98	ppb	#	79
19) methyl tert butyl ether	7.563	73	1066964	43.55	ppb		89
20) acrylonitrile	6.694	53	201044	44.73	ppb		99
21) allyl chloride	6.875	41	1051849	51.43	ppb		91
22) trans-1,2-dichloroethene	7.468	96	488880	45.68	ppb		90
23) iodomethane	6.692	142	959751	51.21	ppb		94
24) carbon disulfide	7.056	76	1368346	49.53	ppb		97
25) propionitrile	8.083	54	47006	52.76	ppb		100
26) vinyl acetate	7.818	43	1394000m	96.33	ppb		
27) chloroprene	8.084	53	816379	49.94	ppb		91
28) di-isopropyl ether	8.124	45	2055804	52.38	ppb		92
29) methacrylonitrile	8.238	41	286497	49.06	ppb		89
30) 2-butanone	8.133	72	56602	46.15	ppb	#	49
31) Ethyl Acetate	8.119	43	1765823	51.67	ug/L		96
32) Hexane	8.107	41	850277	50.98	ppb	#	83
33) 1,1-dichloroethane	7.719	63	949170	48.80	ppb		99
34) tert-butyl ethyl ether	8.520	59	1473866	42.84	ppb		98
35) isobutyl alcohol	8.538	43	288473	229.98	ppb		79
36) 2,2-dichloropropane	8.577	77	590474	50.24	ppb		88

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20931.D
Acq On : 8 Jul 2014 8:23 am
Operator : GaryK
Sample : cc915-50
Misc : ms32230,msu937,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 08 09:14:55 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	cis-1,2-dichloroethene	8.289	96	526930	46.60	ppb		94
38)	bromochloromethane	8.455	128	294232	51.03	ppb	#	84
39)	chloroform	8.493	83	822265	49.27	ppb		99
41)	Tetrahydrofuran	8.841	42	165108	50.58	ppb		77
42)	1,1,1-trichloroethane	9.244	97	797992	52.02	ppb		96
44)	Cyclohexane	9.527	56	1056881	51.03	ppb		88
45)	carbon tetrachloride	9.606	117	773801	55.14	ppb		98
46)	1,1-dichloropropene	9.418	75	534904	48.85	ppb		90
47)	benzene	9.641	78	1458471	45.17	ppb		95
48)	1,2-dichloroethane	9.143	62	636409	50.04	ppb		99
49)	tert-amyl methyl ether	9.764	73	1021665	42.83	ppb		87
50)	heptane	10.122	43	767677	56.86	ppb	#	64
51)	trichloroethene	10.262	95	451745	46.34	ppb		75
52)	1,2-dichloropropane	10.229	63	466223	49.61	ppb		100
53)	dibromomethane	10.203	93	274781	51.24	ppb		92
54)	bromodichloromethane	10.317	83	562640	51.58	ppb		97
55)	Methylcyclohexane	10.779	83	724079	49.53	ppb		87
56)	2-chloroethyl vinyl ether	10.701	63	173184	41.70	ppb		95
57)	methyl methacrylate	10.421	69	172800	49.66	ppb	#	74
58)	1,4-dioxane	10.447	88	15113m	255.70	ppb		
59)	cis-1,3-dichloropropene	10.937	75	542441	49.37	ppb		86
61)	4-methyl-2-pentanone	11.041	43	512861	54.26	ppb		94
62)	toluene	11.712	92	853062	48.94	ppb		94
63)	trans-1,3-dichloropropene	11.357	75	430506	50.73	ppb		97
64)	1,1,2-trichloroethane	11.530	83	252053	49.22	ppb		96
65)	ethyl methacrylate	11.740	69	341668	47.61	ppb	#	68
67)	tetrachloroethene	12.455	166	445992	52.34	ppb		97
68)	1,3-dichloropropane	11.764	76	453469	49.38	ppb		90
69)	dibromochloromethane	12.055	129	492545	53.69	ppb		95
70)	1,2-dibromoethane	12.307	107	361578	51.68	ppb		99
71)	2-hexanone	11.900	43	450868m	59.40	ppb		
72)	chlorobenzene	13.134	112	1107462	49.35	ppb		85
73)	1,1,1,2-tetrachloroethane	13.054	131	581793	52.49	ppb		95
74)	ethylbenzene	13.310	91	1739125	49.23	ppb		91
75)	m,p-xylene	13.494	106	1471833	99.18	ppb		84
76)	o-xylene	13.907	106	817639	49.13	ppb		85
77)	styrene	13.834	104	1093273	47.41	ppb		99
78)	bromoform	13.662	173	330298	51.83	ppb		99
79)	trans-1,4-dichloro-2-b...	14.063	53	103168	34.30	ppb	#	63
81)	isopropylbenzene	14.271	105	2205678	52.00	ppb		96
83)	bromobenzene	14.559	156	574929	50.95	ppb	#	74
84)	1,1,2,2-tetrachloroethane	13.913	83	473442	55.04	ppb		98
85)	1,2,3-trichloropropane	14.062	75	433201	43.31	ppb		99
86)	n-propylbenzene	14.716	91	2327325	50.57	ppb		92
87)	2-chlorotoluene	14.834	91	1458732	49.68	ppb		81
88)	4-chlorotoluene	14.910	91	1426378	48.34	ppb		82
89)	1,3,5-trimethylbenzene	14.993	105	2181154	52.25	ppb		93
90)	tert-butylbenzene	15.298	91	1185918	52.12	ppb		82
91)	1,2,4-trimethylbenzene	15.402	105	2177289	51.49	ppb		97
92)	sec-butylbenzene	15.522	105	2804247	52.93	ppb		92

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20931.D
Acq On : 8 Jul 2014 8:23 am
Operator : GaryK
Sample : cc915-50
Misc : ms32230,msu937,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 08 09:14:55 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

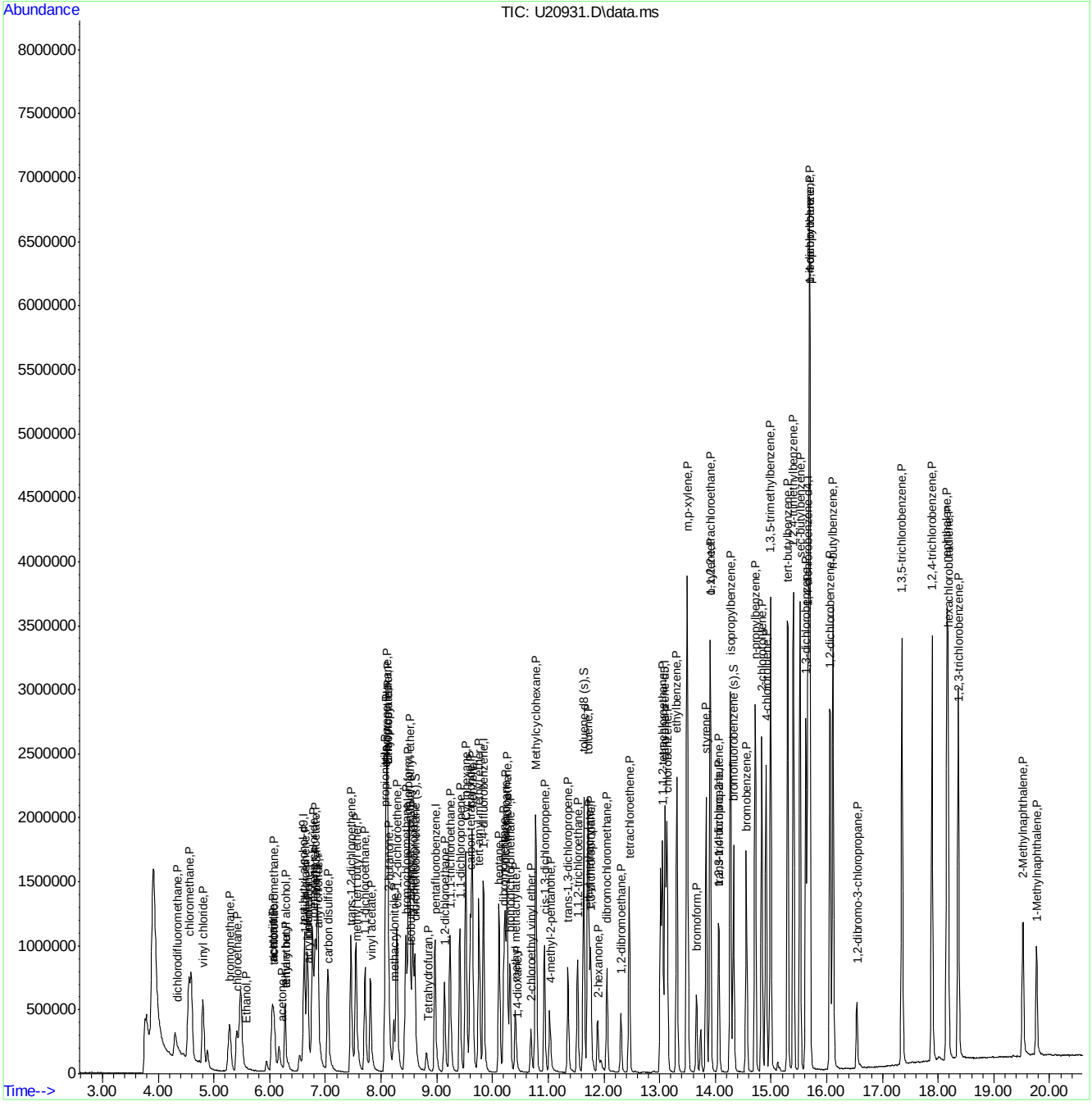
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93)	1,3-dichlorobenzene	15.624	146	1253425	50.35	ppb	97
94)	p-isopropyltoluene	15.695	119	2504311	52.46	ppb	94
95)	1,4-dichlorobenzene	15.691	146	1256286	48.04	ppb	99
96)	1,2-dichlorobenzene	16.060	146	1389750	51.46	ppb	96
97)	n-butylbenzene	16.113	91	2187395	52.59	ppb	85
98)	1,2-dibromo-3-chloropr...	16.546	75	139087	50.23	ppb	72
99)	1,3,5-trichlorobenzene	17.353	180	1186952	56.66	ug/L	95
100)	1,2,4-trichlorobenzene	17.893	180	1149624	58.22	ppb	93
101)	hexachlorobutadiene	18.181	225	528617	58.00	ppb	97
102)	naphthalene	18.158	128	2778897	54.63	ppb	100
103)	2-Methylnaphthalene	19.527	142	708805	28.74	ug/L	98
104)	1-Methylnaphthalene	19.773	142	565882	27.96	ug/L	96
105)	1,2,3-trichlorobenzene	18.364	180	1035845	57.54	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20931.D
Acq On : 8 Jul 2014 8:23 am
Operator : GaryK
Sample : cc915-50
Misc : ms32230,msu937,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 08 09:14:55 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Tomasz Torski
07/09/14 08:30

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20957.D
Acq On : 8 Jul 2014 8:09 pm
Operator : GaryK
Sample : ecc915-50
Misc : ms32230,msu937,,,,5,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 09 07:46:26 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	6.596	65	279089	50.00	ppb		0.00
4) pentafluorobenzene	8.976	168	711199	50.00	ppb		0.00
43) 1,4-difluorobenzene	9.844	114	1155939	50.00	ppb		0.00
66) chlorobenzene-d5	13.097	82	458382	50.00	ppb	#	0.00
80) 1,4-dichlorobenzene-d4	15.663	152	712628	50.00	ppb		0.00
System Monitoring Compounds							
40) dibromofluoromethane (s)	8.615	113	486588	63.22	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 126.44%				
60) toluene-d8 (s)	11.640	98	1159403	52.58	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 105.16%				
82) bromofluorobenzene (s)	14.328	95	443354	49.11	ppb		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.22%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	6.291	59	368212	622.72	ppb		92
3) Ethanol	5.568	45	589887	6869.36	ppb		98
5) dichlorodifluoromethane	4.342	85	525144m	73.04	ppb		
6) chloromethane	4.550	50	1175781	62.09	ppb		99
7) vinyl chloride	4.802	62	726093	53.75	ppb		97
8) bromomethane	5.278	96	401572	56.17	ppb		93
9) chloroethane	5.421	64	271802	44.12	ppb		99
10) ethyl ether	6.291	59	368838	51.25	ppb		89
11) acetonitrile	6.070	41	55396m	45.08	ppb		
12) trichlorofluoromethane	6.066	101	837347	56.45	ppb		99
13) freon-113	6.833	101	491752	52.37	ppb		88
14) acrolein	6.055	56	66186	51.98	ppb		94
15) 1,1-dichloroethene	6.634	96	389503	48.41	ppb		97
16) acetone	6.235	58	60197	30.00	ppb		95
17) Methyl Acetate	6.822	43	381407	50.37	ppb	#	83
18) methylene chloride	6.784	84	436433	50.15	ppb	#	74
19) methyl tert butyl ether	7.566	73	910655	43.02	ppb		86
20) acrylonitrile	6.706	53	188385	48.52	ppb		97
21) allyl chloride	6.876	41	942096	53.33	ppb		91
22) trans-1,2-dichloroethene	7.468	96	436991	47.27	ppb		97
23) iodomethane	6.689	142	864949	53.42	ppb		92
24) carbon disulfide	7.054	76	1188412	49.80	ppb		98
25) propionitrile	8.084	54	42579	55.32	ppb		100
26) vinyl acetate	7.821	43	1200364	96.02	ppb		96
27) chloroprene	8.085	53	775782	54.93	ppb		88
28) di-isopropyl ether	8.124	45	1871058	55.19	ppb		94
29) methacrylonitrile	8.241	41	250521	49.67	ppb		89
30) 2-butanone	8.135	72	31398	29.63	ppb	#	1
31) Ethyl Acetate	8.118	43	1459681	49.45	ug/L		89
32) Hexane	8.107	41	757865	52.61	ppb	#	80
33) 1,1-dichloroethane	7.720	63	883745	52.60	ppb		99
34) tert-butyl ethyl ether	8.520	59	1235336	41.57	ppb		98
35) isobutyl alcohol	8.541	43	256964	237.64	ppb		89
36) 2,2-dichloropropane	8.577	77	480144	47.30	ppb		90

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20957.D
Acq On : 8 Jul 2014 8:09 pm
Operator : GaryK
Sample : ecc915-50
Misc : ms32230,msu937,,,,5,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 09 07:46:26 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	cis-1,2-dichloroethene	8.290	96	490184	50.18	ppb		98
38)	bromochloromethane	8.456	128	276221	55.46	ppb		88
39)	chloroform	8.494	83	777309	53.92	ppb		99
41)	Tetrahydrofuran	8.844	42	143015	50.72	ppb		79
42)	1,1,1-trichloroethane	9.242	97	730745	55.15	ppb		98
44)	Cyclohexane	9.527	56	935369	54.44	ppb		88
45)	carbon tetrachloride	9.606	117	700498	60.18	ppb		99
46)	1,1-dichloropropene	9.418	75	498209	54.85	ppb		89
47)	benzene	9.642	78	1320623	49.31	ppb		97
48)	1,2-dichloroethane	9.143	62	599138	56.79	ppb		97
49)	tert-amyl methyl ether	9.765	73	847443	42.82	ppb		86
50)	heptane	10.125	43	613485m	54.77	ppb		
51)	trichloroethene	10.262	95	415209	51.34	ppb		76
52)	1,2-dichloropropane	10.230	63	391098	50.17	ppb		100
53)	dibromomethane	10.203	93	235856	53.02	ppb		91
54)	bromodichloromethane	10.317	83	488179	53.95	ppb		97
55)	Methylcyclohexane	10.779	83	627636	51.76	ppb		86
56)	2-chloroethyl vinyl ether	10.706	63	102606	29.78	ppb		94
57)	methyl methacrylate	10.421	69	111832	38.74	ppb	#	62
58)	1,4-dioxane	10.453	88	14173	287.20	ppb	#	63
59)	cis-1,3-dichloropropene	10.937	75	410788	45.07	ppb		88
61)	4-methyl-2-pentanone	11.044	43	390947	49.86	ppb		93
62)	toluene	11.713	92	678416	46.92	ppb		96
63)	trans-1,3-dichloropropene	11.358	75	284805	40.46	ppb		96
64)	1,1,2-trichloroethane	11.530	83	188643	44.40	ppb		98
65)	ethyl methacrylate	11.743	69	238621	40.08	ppb	#	5
67)	tetrachloroethene	12.455	166	352302	55.58	ppb		94
68)	1,3-dichloropropane	11.765	76	314066	45.98	ppb		92
69)	dibromochloromethane	12.055	129	370664	54.33	ppb		100
70)	1,2-dibromoethane	12.308	107	252539	48.53	ppb		99
71)	2-hexanone	11.924	43	191757	33.96	ppb		98
72)	chlorobenzene	13.135	112	853155	51.11	ppb		85
73)	1,1,1,2-tetrachloroethane	13.054	131	514156	62.36	ppb		98
74)	ethylbenzene	13.310	91	1347711	51.29	ppb		92
75)	m,p-xylene	13.494	106	1145039	103.74	ppb		84
76)	o-xylene	13.907	106	682696	55.16	ppb		85
77)	styrene	13.835	104	836992	48.80	ppb		98
78)	bromoform	13.662	173	250161	52.78	ppb		98
79)	trans-1,4-dichloro-2-b...	14.063	53	69311	30.98	ppb	#	44
81)	isopropylbenzene	14.271	105	1862959	53.95	ppb		96
83)	bromobenzene	14.559	156	465067	50.63	ppb	#	74
84)	1,1,2,2-tetrachloroethane	13.913	83	389298	55.60	ppb		97
85)	1,2,3-trichloropropane	14.062	75	332563	40.85	ppb		96
86)	n-propylbenzene	14.716	91	1906709	50.90	ppb		90
87)	2-chlorotoluene	14.834	91	1211237	50.67	ppb		83
88)	4-chlorotoluene	14.910	91	1148734	47.83	ppb		81
89)	1,3,5-trimethylbenzene	14.993	105	1865731	54.90	ppb		95
90)	tert-butylbenzene	15.298	91	1037571	56.02	ppb		81
91)	1,2,4-trimethylbenzene	15.402	105	1842442	53.53	ppb		97
92)	sec-butylbenzene	15.522	105	2403773	55.74	ppb		91

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20957.D
Acq On : 8 Jul 2014 8:09 pm
Operator : GaryK
Sample : ecc915-50
Misc : ms32230,msu937,,,,5,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 09 07:46:26 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration

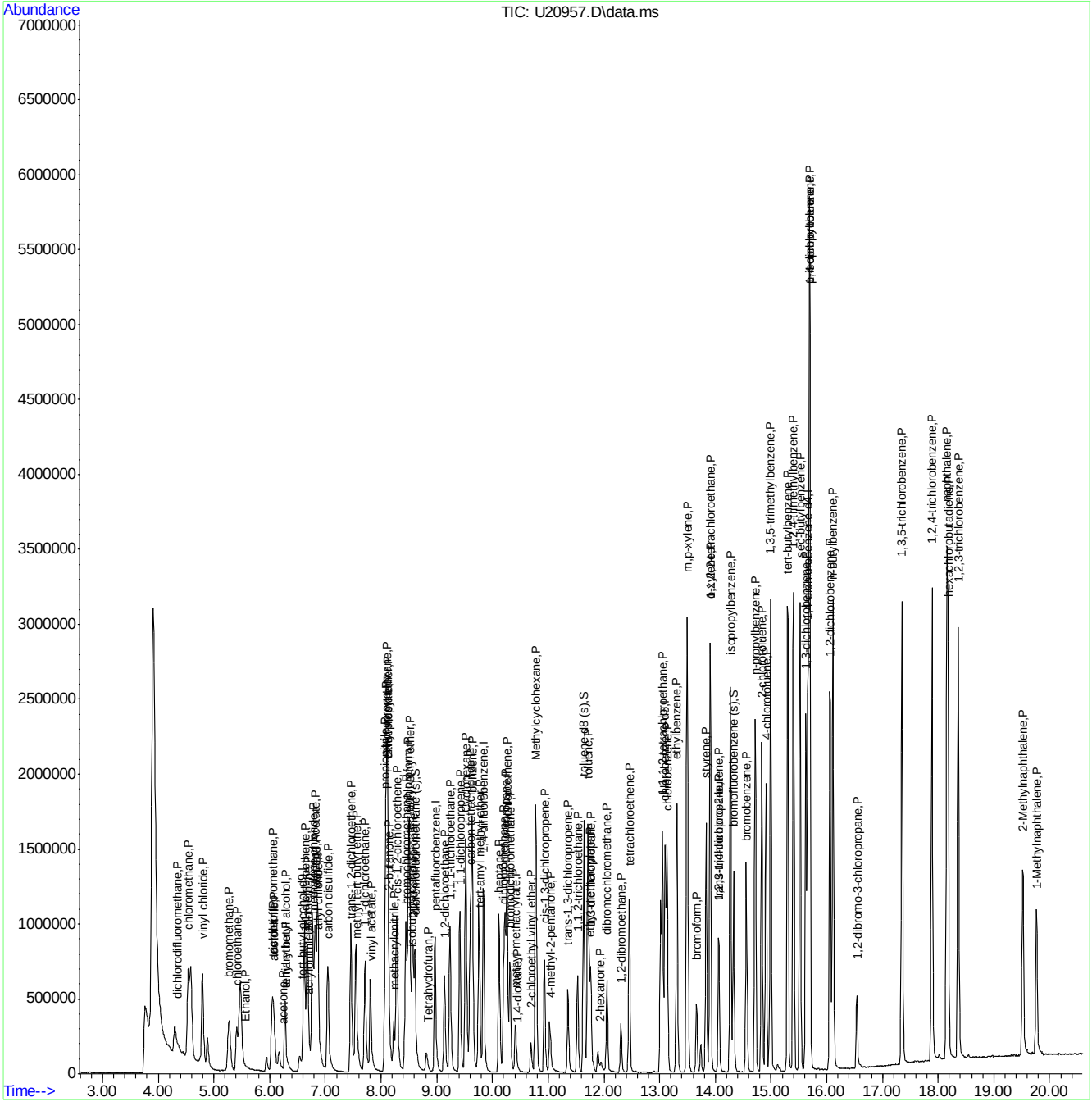
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
93)	1,3-dichlorobenzene	15.624	146	1076030	53.10	ppb		98
94)	p-isopropyltoluene	15.694	119	2118171	54.51	ppb		95
95)	1,4-dichlorobenzene	15.692	146	1080879	50.78	ppb		99
96)	1,2-dichlorobenzene	16.060	146	1224606	55.71	ppb		96
97)	n-butylbenzene	16.114	91	1869072	55.20	ppb		83
98)	1,2-dibromo-3-chloropr...	16.543	75	120588	53.51	ppb	#	71
99)	1,3,5-trichlorobenzene	17.352	180	1095312	64.24	ug/L		96
100)	1,2,4-trichlorobenzene	17.892	180	1105373	68.77	ppb		94
101)	hexachlorobutadiene	18.180	225	493405	66.50	ppb		93
102)	naphthalene	18.157	128	2700444	65.23	ppb		100
103)	2-Methylnaphthalene	19.525	142	806595	40.19	ug/L		98
104)	1-Methylnaphthalene	19.772	142	673094	40.86	ug/L		95
105)	1,2,3-trichlorobenzene	18.364	180	1033881	70.55	ppb		93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140708\
Data File : U20957.D
Acq On : 8 Jul 2014 8:09 pm
Operator : GaryK
Sample : ecc915-50
Misc : ms32230,msu937,,,,5,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 09 07:46:26 2014
Quant Method : D:\msdchem\1\methods\U140606W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Jun 09 11:51:52 2014
Response via : Initial Calibration



Accutest Laboratories of New England, Inc. **Instrument: GCMS U**

VOLATILE ORGANICS BY GC/MS ANALYSIS LOG

Standards Data

Lot #	Description	Conc
MS9766	V8260 IS	2500ug/ml
9719	SS	200ug/ml
9758	cc mix	
9775	cc gas	
9741	bs mix	
9751	bs gas	

Daily Saved File

Tune file 1:	U20294
Tune file 2:	U20297
Initial Cal:	6-6-14
ID File:	U140606w.m
ICAL Verified:	U20311
Sequence verified:	GK

Date: 6-6-14

Batch ID: MSU915

Analysts GK

Signature:

*Note: If sample matrix is soil – method SW846 5035 used for preparation. SW846 5030 is purge and trap method for soil and water

pH paper LOT#202513 exp: 1/15/2016

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% Sol	Dil. Fact.	pH	Comments
U20285	blk	—	—	V8260	1	W	5ml	NA	1X	NA	
86		↓			2						
87		2,1			3						
88	↓	—			4						
89	test 0.5	3,1			5						
90	5	↓			6						
91	↓ 400	↓			7						
92	blk	—			8						
93	Acetonitrile				9						
94	BFB	↓			10						
95	test 5	2,1			11						
96	test 5	↓			12						
97	BFB tune	—	↓		13						✓ 4:42pm
98	ic915-0.5	2,1	MS9758 9775		14						✓
99	-1				15						✓
300	-2				16						✓
01	-5				17						✓
02	-10				18						✓
03	-25				19						✓
04	icc -50				20						✓
05	-100				21						✓
06	-200				22						✓
07	↓ -400	↓	↓		23						✓
08	blk	—	—		24						✓
09	↓	↓	↓		25						✓
10	ICV915-50	3,2	MS9741 9751		26						✓
11	↓	↓	↓		27						✓ 11:04pm
12	blk	—	—		28						✓

GK 6-9-14

MTX = Matrix: Designate W for water, S for soil, O for oil.
Sample amount is reported in grams (wet) for soil and oil, mls for water.

MS001-05 Date: 07/22/13

Review:

ACCUTEST LABORATORIES MC31799

Accutest Laboratories of New England, Inc. **Instrument: GCMS U**

VOLATILE ORGANICS BY GC/MS ANALYSIS LOG

Standards Data

Lot #	Description	Conc
MS9760	V8260 IS/SS	250ug/ml
9758	cc mix	200ug/ml
9775	cc gas	
9741	bs mix	
9751	bs gas	

Daily Saved File

Tune file 1:	U20315
Tune file 2:	—
Initial Cal:	6-6-14
ID File:	U140606w,m
ICAL Verified:	U20311
Sequence verified:	

Date: 6-9-14

Batch ID: MSU915

Analysts GK

Signature:

*Note: If sample matrix is soil – method SW846 5035 used for preparation. SW846 5030 is purge and trap method for soil and water

pH paper LOT#202513 exp: 1/15/2016

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% Sol	Dil. Fact.	pH	Comments
U20313	blk	—	—	V8260	1	W	5ml	NA	1X	NA	✓
14	↓	↓	↓		2						✓
15	~~EC380~~ EC915	50 2,1	MS 9758 9775		3						✓ Tune 11:10Am
16	bs	3,2	MS 9741 9751		4						✓
17	bsd	↓	↓		5						
18	blk	—	—		6						
19	MB	↓	↓		7						
20	MC30919-4	2	MS32010	SL DOD	8					L2	✓
21	↓ 3	6			9						✓
22	MC30946-5	1			10						✓
23	MC31095-3	↓			11						✓
24	MC30919-1	17			12						✓
25	2	7			13						✓
26	5	2			14						✓
27	6	↓			15						✓
28	7	5			16						✓
29	1 MS	20,24,25			17						✓
30	1 MSD	↓	↓	↓	18				↓		✓
31	blk	—	—	—	19						✓
32	MC31095-1	5	MS32010	SL DOD	20					NA	✓
33	2	↓			21					L2	✓
34	4	7			22						✓
35	5	5			23						✓
36	6	7			24						✓
37	MC30946-4	↓			25						✓
38	EC915-50	2,1	↓	V8260	26					↓	✓ 9:45pm
39	blk	—	—	—	27	↓	↓	↓	↓	NA	✓
~~40~~											
					GK	6-10-14					

TX = Matrix: Designate **W** for water, **S** for soil, **O** for oil.

mple amount is reported in grams (wet) for soil and oil, mls for water.

001-05 Date: 07/22/13

Review:

42

Accutest Laboratories of New England, Inc. **Instrument: GCMS U**

VOLATILE ORGANICS BY GC/MS ANALYSIS LOG

Standards Data

Lot #	Description	Conc
MS 9782	V8260 35/55	250ug/ml
9758	cc mix	200ug/ml
9775	cc gas	
9789	bs mix	
9787	bs gas	

Daily Saved File

Tune file 1:	U20827
Tune file 2:	—
Initial Cal:	6-6-14
ID File:	U140606w.m
ICAL Verified:	U20311
Sequence verified:	

Date: 7-3-14

Batch ID: MSU934

Analysts GK

Signature:

*Note: If sample matrix is soil – method SW846 5035 used for preparation. SW846 5030 is purge and trap method for soil and water

pH paper LOT#202513 exp: 1/15/2016

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% Sol	Dil. Fact.	pH	Comments
U20826	blk	—	—	V8260	1	W	5ml	NA	1X	NA	
27	CC915-50	3,2	MS9758 9775		2						✓✓ 8:26AM
28	bs	3,2	MS9783 9787		3						compounds X high RF
29	bs	↓	↓		4						✓
30	bsd	↓	↓		5						
31	blk	—	—		6						
32	MB	↓	↓	↓	7					↓	✓
33	MC31799-4	9	MS32217	DOD SL	8						✓
34	1	2			9						✓
35	2	↓			10						✓
36	3	3			11						✓
37	5	1			12						✓
38	6	↓			13						✓
39	7	3			14						✓
40	8	2			15						✓
41	9	↓			16						100X VC, DCE
42	10	3			17						1X c/o
43	11	1			18						100X DCE, TCE
44	12	↓			19						✓
45	13	↓			20						✓
46	14	3			21						✓
47	15	1			22						✓
48	16	3			23						10X
49	18	2			24						✓
50	4MS	2,7,8			25						✓
51	4MSD	↓	↓	↓	26						✓
52	EC915-50	3,2	MS9758 9775	V8260	27	↓	↓	↓	↓	NA	✓ 7:46pm
53	blk	—	—	—	28						
54	(GK)	↓	↓	↓	29						
55	~~MC31333-3M~~				30						
56	~~3M~~	↓	↓	↓	31	↓	↓	↓	↓	↓	

MTX = Matrix: Designate W for water, S for soil, O for oil.

Sample amount is reported in grams (wet) for soil and oil, mls for water

MS001-05 Date: 07/22/13

Review:

ACCUTEST LABORATORIES MC31799

Accutest Laboratories of New England, Inc. **Instrument: GCMS U**

VOLATILE ORGANICS BY GC/MS ANALYSIS LOG

Standards Data

Lot #	Description	Conc
MS 9782	V8260 ISISS	250ug/ml
9791	ccmix	200ug/ml
9784	ccgas	↓
9783	bsmix	
↓ 9787	↓ bsgas	↓

Daily Saved File

Tune file 1:	U20903
Tune file 2:	—
Initial Cal:	6-6-14
ID File:	U140606 w.m
ICAL Verified:	U20911
Sequence verified:	

Date: 7-7-14

Batch ID: MSU936

Analysts GK

Signature:

*Note: If sample matrix is soil – method SW846 5035 used for preparation. SW846 5030 is purge and trap method for soil and water

pH paper LOT#202513 exp: 1/15/2016

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% Sol	Dil. Fact.	pH	Comments
U20901	blk	—	—	V8260	1	W	5ml	NA	1X	NA	✓
02	CC915-50	3,2	MS9758 ↓ 9775	↓	2	↓	↓	↓	↓	↓	✓
03	CC915-50	1,1	MS9791 9784		3						X MTBE Low
04	bs	3,2	MS 9783 9787		4						✓✓ 9:45AM
05	bsd	↓	↓		5						✓
06	blk	—	—		6						✓
07	MB	↓	↓		7						✓
08	MC31799-34	2	MS32235	SL	8					<2	✓
09	↓ -33	↓		↓	9						✓
10	MC31809-3	1		STD+MTBE	10						✓
11	MC31807-1	3		TCL	11						✓
12	MC31808-1	1		SL	12						✓
13	MC31799-31	↓			13						✓
14	↓ -32	3		↓	14						✓
15	MC31807-2	2		TCL	15						✓
16	-3	1			16						✓
17	-4	2			17						✓
18	↓ -5	1		↓	18						✓
19	MC31808-2	3		SL	19						✓
20	-3	↓			20						✓
21	↓ -4	1		↓	21						✓
22	MC31809-1	2		STD+MTBE	22						✓
23	↓ -2	3,2,6		↓	23						✓
24	MC31807-1	MS4,6,7		TCL	24						✓
25	↓ -1	MSD ↓		↓	25						✓
26	MC31808-1	MS2,3,9		SL	26						✓
27	↓ -1	MSD ↓		↓	27						✓
28	ECC915-50	1,1	MS9758 9775	V8260	28						✓
↓ 29	blk	—	—	—	29	↓	↓	↓	NA ↓	✓	9:06pm
				GK	7-8-14						

MTX = Matrix: Designate W for water, S for soil, O for oil.
Sample amount is reported in grams (wet) for soil and oil, mls for water.

MS001-05 Date: 07/22/13

Review:

17

Instrument: GCMS U

VOLATILE ORGANICS BY GC/MS ANALYSIS LOG

Standards Data

Lot #	Description	Conc
MS9782	V8260 IS/SS	250ug/ml
9791	cc mix	200ug/ml
9784	cc gas	
9783	bs mix	
9787	bs gas	

Daily Saved File

Tune file 1:	U20931
Tune file 2:	—
Initial Cal:	6-6-14
ID File:	U140606w.m
ICAL Verified:	U20311
Sequence verified:	

Date: 7-8-14

Batch ID: MSU937

Analysts GK

Signature:

*Note: If sample matrix is soil – method SW846 5035 used for preparation. SW846 5030 is purge and trap method for soil and water

pH paper LOT#202513 exp: 1/15/2016

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% Sol	Dil. Fact.	pH	Comments
U20930	blk	—	—	V8260	1	W	5ml	NA	1X	NA	Tune
31	CC915-50	1,1	MS9791 9784		2						✓✓ 8:23pm
32	bs	3,2	MS9783 9787		3						✓
33	bsd	↓	↓		4						
34	blk	—	—		5						
35	MB	↓	↓	↓	6						✓
36	MC31799-10	2	MS32230	DODSL	7					<2	✓
37	17	7			8						✓
38	20	2			9						✓
39	24	7			10						✓
40	21	3			11						✓
41	22	2			12						✓
42	23	3			13						✓
43	25	↓			14						✓
44	26	↓			15						✓
45	27	2			16						✓
46	28	↓			17						✓
47	29	↓			18						✓
48	30	↓			19						✓
49	19	3			20				5X		✓
50	9	1	MS32217		21				100X		✓
51	11	2	↓		22				↓		✓
52	16	↓	↓		23				10X		✓
53	17MS 2,9,9		MS32230		24				1X		✓
54	17MSD	↓			25				↓		✓
55	24MS 4,5,9				26						✓
56	24MSD	↓			27						✓
57	ECC915-50	1,1			28					↓	✓ 8:09pm
58	blk	—	↓	↓	29	↓	↓	↓	↓	NA	✓

MTX = Matrix: Designate W for water, S for soil, O for oil.
Sample amount is reported in grams (wet) for soil and oil, mls for water.

MS001-05 Date: 07/22/13

Review:

ACCUTEST LABORATORIES MC31799

Data Validation Report
Niagara Falls Air Reserve Station
Niagara Falls, New York

Semi-Annual Sampling Event
October 2014

Prepared for:
EA Science and Technology
6712 Brooklawn Parkway, Suite 104
Syracuse, New York

December 2014

Prepared by:
SGD Environmental Services
Cazenovia, New York

Data Validation Report
Niagara Falls Air Reserve Station
Niagara Falls, New York

Semi-Annual Sampling Event – October 2014

Prepared for:
EA Science and Technology
6712 Brooklawn Parkway, Suite 104
Syracuse, New York

December 9, 2014

Prepared by:
SGD Environmental Services
2063 Stanley Road
Cazenovia, New York 13035

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Tables

1 Sampling matrix summary
2 VOC field duplicate exceedence summary

Appendices

A Data Validated (Qualified) Forms – *Report of Analysis*

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1.0 Introduction

SGD Environmental Services (SGD Environmental) (Cazenovia, New York) was retained by EA Science and Technology (EA) located in Syracuse, New York to review analytical data generated from EA sampling efforts at the Niagara Falls Air Reserve Station (NFARS) in Niagara Falls, New York. Specifically, the sampling efforts involved the collection of semi-annual surface water and ground water samples in October 2014. This report represents the validation of those samples.

1.1 Field sampling summary

As illustrated in Table 1, the semi-annual samples were collected on October 22 and 23, 2014 (a spike blank was prepared on October 21, 2014). The samples collected by EA were submitted to Accutest Laboratories (Accutest) located in Marlborough, Massachusetts and analyzed for volatile organic compounds (VOCs).

1.2 Data validation process

The data contained in the laboratory sampling delivery groups (SDGs) were validated using guidance and quality control (QC) criteria identified in the following documents (as appropriate):

- *Niagara Falls Air Reserve Station, New York, Final Unrestricted Use Characterization Quality Assurance Project Plan for Sites: DS001, DS003, ST009, ST011, TU956, and TU962.* August. 2013.

- *DoD Quality Systems Manual for Environmental Laboratories Version 4.2 Based on NELAC Voted Revision 5 June 2003.* October 25, 2010.

- *United States Environmental Protection Agency (USEPA) Hazardous Waste Support Section SOP No. HW-34 Revision 3 Trace Volatile Data Validation.* February 2013.

- *USEPA Hazardous Waste Support Branch Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B. SOP HW-24. Revision 3.* December 2010.

Areas reviewed included completeness of data, chain of custody, holding times, preservation, blank spike/laboratory control samples, matrix spikes/matrix spike duplicates (MS/MSD), laboratory duplicates, field duplicates, surrogate recoveries, preparation/calibration blanks, initial and continuing calibrations, instrument tunes, and detection limits.

Table 1 – Sampling matrix summary.

SDG	*EA field identification*	*Laboratory identification*	*Sampling date*	*Notes*
MC34663: Ground water	MW1-1DA	MC34663-1	10-23-14	--
	MW3-3DA	MC34663-2		--
	MW3-4DA	MC34663-3		--
	PW3-3A	MC34663-4		--
	PZ3-6D	MC34663-5		--
	PZ3-7D	MC34663-6		--
	PZ3-8D	MC34663-7		--
	MW5-1DA	MC34663-8		--
	MW5-5D	MC34663-9		--
	MW5-6	MC34663-10		MS/MSD
	RW5-1	MC34663-11		--
	RW5-2	MC34663-12		--
	RW5-4	MC34663-13		--
	MW7-1D	MC34663-14		--
	MW8-1	MC34663-15		--
	MW8-10D	MC34663-16		--
	MW10-1DA	MC34663-17		--
	MW10-3D	MC34663-18		--
	MW10-4D	MC34663-19		--
	MW10-4E	MC34663-20		MS/MSD
	MW10-9D	MC34663-21		--
	MW10-10D	MC34663-22		--
	PW10-1	MC34663-23		--
	PW10-2	MC34663-24		--
	MW13-4D	MC34663-25		--
	MW13-5D	MC34663-26		--
	MW5-5DQ	MC34663-27	--	MS/MSD (lab) Field duplicate of MW5-5D
	MW10-10DQ	MC34663-28	--	Field duplicate of MW10-10DQ
	PDB-BLK102314	MC34663-29	10-23-14	
	TB-102314	MC34663-30	--	Trip blank
	14185-001	MC34663-31	10-21-14	Spike blank
MC34664 – Surface water	SW10-5	MC34664-1	10-23-14	--
	SW10-6	MC34664-2		--
	SW10-7	MC34664-3		--
	SW3-2	MC34664-4		--
	SW3-3	MC34664-5		--
	SW3-15	MC34664-6		MS/MSD
	SW99-10	MC34664-7	10-22-14	--
	TB-10232014	MC34664-8	--	Trip blank
	SW10-6Q	MC34664-9	--	Field duplicate of SW10-6

VOC = Solid Waste (SW) 846 Method 8260C – Target Compound List (TCL) Volatile Organic Compounds.

The summary of this review is presented in the following section and outlines data which are considered non-compliant with method requirements. It is recognized that depending on validation requirements, an analyte associated with a particular sample could receive multiple qualifiers; samples were qualified based on the most conservative qualifier.

Where necessary, the sample results are hand-qualified with data qualifiers to reflect data deficiencies on the accompanying sample result reports (Appendix A). A summary list of qualifiers used to flag the data and associated definitions accompany the reports.

1.3 Chain of custody and holding times

Chains of custody accompanied the samples and were included in the laboratory deliverables. The following chain of custody observations and inconsistencies relative to the requested analyses were noted:

- The chains of custody listed "VOC 8260B" as the requested analysis. The laboratory utilized Solid Waste (SW) 846 Method 8260C.

- Incidental information (such as complete project location and billing information) was not filled out in entirety on the chains of custody.

- The matrix for sample SW10-6Q from MC34664 is identified on the chain of custody as a "GW." This sample was reported by EA as the field duplicate of SW10-6 (identified as a surface water sample).

- Samples in both SDGs were recorded as received by the laboratory within required temperature ranges.

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2.0 Volatile organic compound validation

2.1 Data completeness and deliverables

A narrative summarizing the laboratory analyses was included in each SDG. Table 1 summarizes those samples analyzed for VOCs using Method 8260C. The results were summarized on standardized laboratory "Report of Analysis" forms listing each individual VOC.

The Report of Analysis forms also included 1,4-Dioxane [a Department of Defense (DoD) semi-volatile organic compound]. Following confirmation with EA, this compound was not included in the validation efforts described herein.

The original SDG for MC34663 (dated November 3, 2014) was revised by Accutest following their response to an information request by SGD Environmental. The revised information within the SDG for MC34663, dated December 3, 2014, was used for validation purposes.

The samples from MC34664 were collected on October 22/23, 2014 and identified on the chain of custody as not preserved. With the exception of TB-10232014 (MC34664-8), the samples from MC34664 exceeded the seven day holding time between sampling and analysis for an unpreserved sample (samples were analyzed October 31, 2014, one and two days past holding times). Consistent with validation requirements, compounds not detected in these samples were flagged with an "R" (rejected) and detected compounds were flagged with a "J" (estimated).

2.2 Surrogate recoveries

Surrogate recoveries were within the DoD performance criteria for the samples collected. As such, no qualification of the sample results was required.

2.3 Blank spike samples

Blank spike samples appear to have been prepared, extracted, and analyzed consistent with method requirements. Volatile blank spike recoveries as noted on the laboratory "Blank Spike Summary" forms were within recovery limits specified by the DoD for the spiked analytes except for the following:

- MC34663 (MSV1314-BS): Bromodichloromethane
- MC34664 (MSL3926-BS): Chloromethane

Given these analytes were not detected in the associated samples and the blank spike recoveries were greater than established limits, qualification of the data was not required.

2.4 Matrix spike/matrix spike duplicate samples

Volatile organic compound MS/MSD recoveries as noted on the laboratory "Matrix Spike/Matrix Spike Duplicate Summary" were within recovery and relative percent difference (RPD) limits for the spiked analytes with the following exceptions:

MC34663-10MS/MSD (MSV1313) [Parent: MW5-6 (MC34663-10)]:

- Acetone
- trans-1,3-Dichloropropene (MSD)
- 2-Hexanone

MC34663-20MS/MSD (MSV1314) [Parent: MW10-4E (MC34663-20)]:

- Acetone
- Carbon disulfide (MS)
- 2-Hexanone
- Iodomethane (MS)
- 1,2,3-Trichlorobenzene (MSD)

MC34663-27MS/MSD (MSN3391) [Parent: MW5-5DQ (MC34663-27)]:

- Acetone
- Bromomethane (MS)
- Carbon disulfide
- 1,1-Dichloroethene
- 2-Hexanone
- Methylcyclohexane
- Vinyl chloride

MC34664MSD [Parent: SW3-15 (MC34664-6MSD)]:

- 1,2-Dichloroethane

The blank spike recoveries associated with the above samples were acceptable suggesting matrix interferences associated with the above MS/MSD recoveries. Based on these findings, parent samples were appropriately qualified ("UJ" or "J") depending on whether the analyte was detected in the sample and whether the upper or lower limit was exceeded[1]. Qualification of the data was not required when the upper acceptance limit was exceeded and the analyte was not detected in the parent sample.

The RPD for Acetone for MC34463-10MS/MSD was greater than method criteria.

[1] Samples from MC34664 previously qualified given analysis exceeded analytical holding times.

2.5 Blank contamination

Method blank samples appear to have been prepared, extracted, analyzed, and reported consistent with method requirements. Blank contamination was not identified and, therefore, no qualification of the data was required. No compounds were detected in the trip blank or blank PDB-BLK102314.

2.6 Instrument performance checks

Instrument performance check samples (Bromofluorobenzene) appear to have been analyzed and reported consistent with method requirements. No transcription/calculation errors between the raw data and the reported data were identified in the instrument check samples reviewed and the spectra of the mass calibration compounds were acceptable. Therefore, qualification of the data with respect to instrument performance checks was not required.

2.7 Target analytes

Report forms (sample and blank) and data system reports (Quantitation Reports), chromatograms, and mass spectra for identified analytes were present in the SDGs provided by the laboratory. The relative retention times (RRT) of reported compounds were within acceptable criteria (0.06 RRT units). Collective review of standard and sample mass spectra as well as the relative intensities of the characteristic ions for both the sample and reference spectra, appears to support the majority of the laboratory reported analytes. Where the relative intensity of the characteristic ions in a small number of the samples exceeded the 30% relative intensity of the reference spectra and/or the ions present in the reference spectra at greater than 10% relative intensity were missing in the sample spectrum, it is the validator's opinion that the laboratory correctly reported the detected analytes and no qualification of the data is not necessary.

2.8 Compound quantitation and reported detection limits

Transcription/calculation errors between the raw data and the reported data were not identified in the samples reviewed; qualification of the data was not required.

2.9 Initial and continuing calibration verifications

Reporting forms, Quantitation Reports, chromatograms, and mass spectra for the initial and continuing calibration verifications (CCVs) were present in the SDGs provided by the laboratory. The percent relative standard deviation (%RSD) or correlation coefficient for initial calibration (IC) analytes met established criteria and, therefore, no qualification with respect to ICs was required.

Volatiles with a percent difference (%D) not meeting method criteria between the initial and continuing calibration occurred with the CCVs associated with the samples noted

below. Consistent with data validation requirements, the outlying volatile compounds associated with the corresponding CCV samples were qualified with a "J" or "UJ" depending upon the results (see Appendix A).

MC34663: MSN3391-CC3345:
- Chloroethane
- Freon-113
- 1,1-Dichloroethene
- Iodomethane
- Carbon disulfide
- 2-Butanone
- 1,2-Dichloroethane
- Methycyclohexane
- 1,1,2,2-Tetrachloroethane
- 1,2,3-Trichlorobenzene

MC34663: MSV1313-CC1312:
- Acetone
- 2-Butanone
- 2-Hexanone

MC34663: MSV1314-CC1312 (11/2/14):
- Dichlorodifluoromethane
- Vinyl chloride
- Bromomethane
- Chloroethane
- Trichlorofluoromethane

MC34663: MSV1314-CC1312 (11/3/14):
- Bromomethane
- Chloroethane
- Trichlorofluoromethane

MC34664: MSL3926-CC3872[1]:
- 1,1,1-Trichloroethane
- 1,2-Dichloroethane
- 4-Methyl-2-pentanone (MIBK)
- 2-Hexanone
- Bromoform

The average relative response factors (RRFs) associated with initial and continuing calibrations met established RRF criteria. No transcription/calculation errors between the raw data and the reported data were identified in the calibrations reviewed.

2.10 Internal standards

Internal standards were within established limits and, therefore, no qualification of the data relative to internal standard criteria was required.

2.11 Field duplicates

The parent sample associated with each blind field duplicate was provided by EA. The following results were qualified as estimated ("J") given relatively significant difference (greater than 50%) between the reported parent sample and field duplicate concentration; the remaining field duplicates associated with the SDGs did not warrant qualification based on calculated RPDs.

Table 2 – VOC field duplicate exceedence summary.

Analyte	*Field duplicate ID (ppb)*	*Parent ID (ppb)*	*RPD (%)*
	MW5-5DQ (MC34663-27)	MW5-5D (MC34663-9)	
Acetone	4.7J	<10	72
1,1-Dichloroethene	<1.0	2.3	79
Toluene	0.51J	<1.0	65
Vinyl chloride	1250	2280	58
	MW10-10DQ (MC34663-28)	MW10-10 (MC34663-22)	
Carbon disulfide	0.55J	<5	160
Carbon tetrachloride	<1.0	0.24	123

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Appendices

Data Validation Report

Niagara Falls Air Reserve Station
Niagara Falls, New York

Semi-Annual Sampling Event – October 2014

Appendices Table of Contents

Appendix A – Data Validated (Qualified) Forms – *Report of Analysis*

Appendix A
Data Validated (Qualified) Forms
Report of Analysis

Data Qualifiers

U - The analyte was analyzed for, but was 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.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

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.

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.

Source: *USEPA Hazardous Waste Support Branch Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B. SOP HW-24. Revision 3.* December 2010.

SDG: MC34663

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW1-1DA		
Lab Sample ID:	MC34663-1	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36253.D	1	11/01/14	AMY	n/a	n/a	MSV1313
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW1-1DA		
Lab Sample ID:	MC34663-1	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	99%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW3-3DA		
Lab Sample ID:	MC34663-2	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36254.D	1	11/01/14	AMY	n/a	n/a	MSV1313
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	6.0	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW3-3DA		
Lab Sample ID:	MC34663-2	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	25.1	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		70-130%
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW3-4DA		
Lab Sample ID:	MC34663-3	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36255.D	1	11/01/14	AMY	n/a	n/a	MSV1313
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	5.7	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW3-4DA		
Lab Sample ID:	MC34663-3	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	15.5	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		70-130%
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PW3-3A		
Lab Sample ID:	MC34663-4	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36256.D	1	11/01/14	AMY	n/a	n/a	MSV1313
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	4.2	10	2.5	ug/l	J
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	2.6	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW3-3A		
Lab Sample ID:	MC34663-4	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	0.72	1.0	0.40	ug/l	J
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	0.46	1.0	0.45	ug/l	J
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		70-130%
2037-26-5	Toluene-D8	102%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PZ3-6D		
Lab Sample ID:	MC34663-5	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36257.D	1	11/01/14	AMY	n/a	n/a	MSV1313
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	2.0	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PZ3-6D		
Lab Sample ID:	MC34663-5	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	4.7	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		70-130%
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PZ3-7D		
Lab Sample ID:	MC34663-6	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36258.D	1	11/01/14	AMY	n/a	n/a	MSV1313
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	8.8	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PZ3-7D		
Lab Sample ID:	MC34663-6	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	27.4	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		70-130%
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	99%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: V36259.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	PZ3-8D		
Lab Sample ID:	MC34663-7	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36259.D	1	11/01/14	AMY	n/a	n/a	MSV1313
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PZ3-8D		
Lab Sample ID:	MC34663-7	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	0.47	1.0	0.45	ug/l	J
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		70-130%
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW5-1DA		
Lab Sample ID:	MC34663-8	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36260.D	1	11/01/14	AMY	n/a	n/a	MSV1313
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	UJ
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	UJ
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.94	1.0	0.44	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW5-1DA		
Lab Sample ID:	MC34663-8	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		70-130%
2037-26-5	Toluene-D8	103%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW5-5D		
Lab Sample ID:	MC34663-9	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36261.D	1	11/01/14	AMY	n/a	n/a	MSV1313
Run #2	V36301.D	100	11/03/14	AMY	n/a	n/a	MSV1314

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	2.3	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	1510 [a]	100	44	ug/l	
156-60-5	trans-1,2-Dichloroethene	40.5	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW5-5D		
Lab Sample ID:	MC34663-9	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	0.75	1.0	0.40	ug/l	J
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	2280 [a]	100	45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%	108%	70-130%
2037-26-5	Toluene-D8	97%	95%	70-130%
460-00-4	4-Bromofluorobenzene	99%	101%	70-130%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW5-6		
Lab Sample ID:	MC34663-10	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36243.D	1	10/31/14	AMY	n/a	n/a	MSV1313
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	6.2	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	15.7	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW5-6		
Lab Sample ID:	MC34663-10	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	2.5	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	2.7	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		70-130%
2037-26-5	Toluene-D8	98%		70-130%
460-00-4	4-Bromofluorobenzene	99%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	RW5-1		
Lab Sample ID:	MC34663-11	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36262.D	1	11/01/14	AMY	n/a	n/a	MSV1313
Run #2	V36302.D	100	11/03/14	AMY	n/a	n/a	MSV1314

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	UT
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	UT
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	9.7	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	2960 [a]	100	44	ug/l	
156-60-5	trans-1,2-Dichloroethene	10.1	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RW5-1		
Lab Sample ID:	MC34663-11	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	1.0	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	1030 [a]	100	45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%	107%	70-130%
2037-26-5	Toluene-D8	101%	101%	70-130%
460-00-4	4-Bromofluorobenzene	99%	100%	70-130%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	RW5-2		
Lab Sample ID:	MC34663-12	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36297.D	1	11/03/14	AMY	n/a	n/a	MSV1314
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	12.6	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RW5-2		
Lab Sample ID:	MC34663-12	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	2.5	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	0.69	1.0	0.45	ug/l	J
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		70-130%
2037-26-5	Toluene-D8	96%		70-130%
460-00-4	4-Bromofluorobenzene	102%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	RW5-4		
Lab Sample ID:	MC34663-13	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36276.D	1	11/02/14	AMY	n/a	n/a	MSV1314
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	1.7	2.0	0.37	ug/l	J
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	65.7	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RW5-4		
Lab Sample ID:	MC34663-13	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	101	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW7-1D		
Lab Sample ID:	MC34663-14	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36277.D	1	11/02/14	AMY	n/a	n/a	MSV1314
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	7.0	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	J
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	J
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	J
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7-1D		
Lab Sample ID:	MC34663-14	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	L3
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	L3
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW8-1		
Lab Sample ID:	MC34663-15	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36278.D	1	11/02/14	AMY	n/a	n/a	MSV1314
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	0.28	0.50	0.25	ug/l	J
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	UJ
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	UJ
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	UJ
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	0.45	1.0	0.29	ug/l	J
156-59-2	cis-1,2-Dichloroethene	132	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-1		
Lab Sample ID:	MC34663-15	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	1.3	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	93.5	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		70-130%
2037-26-5	Toluene-D8	102%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW8-10D		
Lab Sample ID:	MC34663-16	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36279.D	1	11/02/14	AMY	n/a	n/a	MSV1314
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	U J
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	U J
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	U J
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	8.5	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	1.1	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-10D		
Lab Sample ID:	MC34663-16	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	4.5
75-01-4	Vinyl chloride	3.3	1.0	0.45	ug/l	J
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW10-1DA		
Lab Sample ID:	MC34663-17	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36280.D	1	11/02/14	AMY	n/a	n/a	MSV1314
Run #2	V36303.D	100	11/03/14	AMY	n/a	n/a	MSV1314

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	16.5	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	UJ
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	UJ
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	UJ
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	2.6	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	2210 [a]	100	44	ug/l	
156-60-5	trans-1,2-Dichloroethene	17.6	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-1DA		
Lab Sample ID:	MC34663-17	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	0.53	1.0	0.22	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	U J
75-01-4	Vinyl chloride	742 [a]	100	45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%	110%	70-130%
2037-26-5	Toluene-D8	96%	97%	70-130%
460-00-4	4-Bromofluorobenzene	101%	102%	70-130%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW10-3D		
Lab Sample ID:	MC34663-18	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36298.D	1	11/03/14	AMY	n/a	n/a	MSV1314
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	U
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	U
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-3D		
Lab Sample ID:	MC34663-18	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	UJ
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	99%		70-130%

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW10-4D		
Lab Sample ID:	MC34663-19	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36282.D	1	11/02/14	AMY	n/a	n/a	MSV1314
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	U
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	U
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	U
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	48.4	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-4D		
Lab Sample ID:	MC34663-19	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	UJ
75-01-4	Vinyl chloride	1.6	1.0	0.45	ug/l	J
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		70-130%
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW10-4E		
Lab Sample ID:	MC34663-20	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36275.D	1	11/02/14	AMY	n/a	n/a	MSV1314
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	UJ
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	UJ
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	UJ
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	UJ
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	UJ
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	9.5	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-4E		
Lab Sample ID:	MC34663-20	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	4.8	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	98%		70-130%

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW10-9D		
Lab Sample ID:	MC34663-21	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	*NFARS, Niagara Falls, NY*		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36283.D	1	11/02/14	AMY	n/a	n/a	MSV1314
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	UJ
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	UJ
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	UJ
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	8.0	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-9D		
Lab Sample ID:	MC34663-21	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	1.7	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	117%		70-130%
2037-26-5	Toluene-D8	103%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW10-10D		
Lab Sample ID:	MC34663-22	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36284.D	1	11/02/14	AMY	n/a	n/a	MSV1314
Run #2	V36304.D	100	11/03/14	AMY	n/a	n/a	MSV1314

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	0.39	0.50	0.25	ug/l	J
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	UJ
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	UJ
56-23-5	Carbon tetrachloride	0.24	1.0	0.23	ug/l	J J
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	UJ
67-66-3	Chloroform	9.0	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	UJ
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	2.5	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	4040 [a]	100	44	ug/l	
156-60-5	trans-1,2-Dichloroethene	15.0	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-10D		
Lab Sample ID:	MC34663-22	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	0.51	2.0	0.39	ug/l	J
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	285 [a]	100	40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	UJ
75-01-4	Vinyl chloride	31.2	1.0	0.45	ug/l	J
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%	110%	70-130%
2037-26-5	Toluene-D8	97%	99%	70-130%
460-00-4	4-Bromofluorobenzene	101%	99%	70-130%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PW10-1		
Lab Sample ID:	MC34663-23	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36285.D	1	11/02/14	AMY	n/a	n/a	MSV1314
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	UJ
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	UJ
67-66-3	Chloroform	0.34	1.0	0.31	ug/l	J
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	UJ
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	0.41	1.0	0.29	ug/l	J
156-59-2	cis-1,2-Dichloroethene	232	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	3.4	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW10-1		
Lab Sample ID:	MC34663-23	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	70.2	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	3.6	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		70-130%
2037-26-5	Toluene-D8	103%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PW10-2		
Lab Sample ID:	MC34663-24	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N91780.D	1	11/03/14	JB	n/a	n/a	MSN3391
Run #2	N91785.D	50	11/03/14	JB	n/a	n/a	MSN3391

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	4.3	10	2.5	ug/l	J
71-43-2	Benzene	3.1	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	UJ
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	UJ
56-23-5	Carbon tetrachloride	0.68	1.0	0.23	ug/l	J
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	UJ
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	2.2	5.0	0.62	ug/l	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	UJ
75-35-4	1,1-Dichloroethene	3.2	1.0	0.29	ug/l	J
156-59-2	cis-1,2-Dichloroethene	692 [a]	50	22	ug/l	
156-60-5	trans-1,2-Dichloroethene	3.5	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	UJ

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW10-2		
Lab Sample ID:	MC34663-24	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	UJ
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	1.5	5.0	0.49	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	UJ
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	UJ
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	9.6	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	172	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%	94%	70-130%
2037-26-5	Toluene-D8	102%	103%	70-130%
460-00-4	4-Bromofluorobenzene	106%	104%	70-130%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW13-4D		
Lab Sample ID:	MC34663-25	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36286.D	1	11/02/14	AMY	n/a	n/a	MSV1314
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	0.40	0.50	0.25	ug/l	J
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	12.6	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW13-4D		
Lab Sample ID:	MC34663-25	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	U J
75-01-4	Vinyl chloride	13.8	1.0	0.45	ug/l	J
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		70-130%
2037-26-5	Toluene-D8	97%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW13-5D		
Lab Sample ID:	MC34663-26	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36287.D	1	11/02/14	AMY	n/a	n/a	MSV1314
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	UJ
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	UJ
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	UJ
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	19.3	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	0.95	1.0	0.47	ug/l	J
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW13-5D		
Lab Sample ID:	MC34663-26	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	1.7	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	2.1	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		70-130%
2037-26-5	Toluene-D8	102%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW5-5DQ		
Lab Sample ID:	MC34663-27	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N91777.D	1	11/03/14	JB	n/a	n/a	MSN3391
Run #2	N91783.D	50	11/03/14	JB	n/a	n/a	MSN3391

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	4.7	10	2.5	ug/l	J
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	964 [a]	50	22	ug/l	
156-60-5	trans-1,2-Dichloroethene	33.1	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW5-5DQ		
Lab Sample ID:	MC34663-27	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	UJ
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	UJ
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	UJ
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	UJ
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	0.51	1.0	0.22	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	UJ
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	0.98	1.0	0.40	ug/l	J
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	1250 [a]	50	22	ug/l	J
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%	94%	70-130%
2037-26-5	Toluene-D8	100%	101%	70-130%
460-00-4	4-Bromofluorobenzene	101%	101%	70-130%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: N91778.D N91784.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW10-10DQ		
Lab Sample ID:	MC34663-28	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N91778.D	1	11/03/14	JB	n/a	n/a	MSN3391
Run #2	N91784.D	50	11/03/14	JB	n/a	n/a	MSN3391

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	0.44	0.50	0.25	ug/l	J
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	UJ
75-15-0	Carbon disulfide	0.55	5.0	0.46	ug/l	J J
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	UJ
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	UJ
67-66-3	Chloroform	7.4	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	UJ
75-35-4	1,1-Dichloroethene	2.2	1.0	0.29	ug/l	J
156-59-2	cis-1,2-Dichloroethene	3010 [a]	50	22	ug/l	
156-60-5	trans-1,2-Dichloroethene	21.9	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	UJ

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-10DQ		
Lab Sample ID:	MC34663-28	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	UJ
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	UJ
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	0.47	2.0	0.39	ug/l	J
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	UJ
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	UJ
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	306	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	27.7	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%	95%	70-130%
2037-26-5	Toluene-D8	101%	103%	70-130%
460-00-4	4-Bromofluorobenzene	102%	103%	70-130%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PDB_BLK102314		
Lab Sample ID:	MC34663-29	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36274.D	1	11/02/14	AMY	n/a	n/a	MSV1314
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	u 3
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	u 3
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	u 3
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PDB_BLK102314		
Lab Sample ID:	MC34663-29	Date Sampled:	10/23/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	U
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	U
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TB_102314		
Lab Sample ID:	MC34663-30	Date Sampled:	10/23/14
Matrix:	AQ - Trip Blank Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36273.D	1	11/02/14	AMY	n/a	n/a	MSV1314
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	UJ
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	UJ
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	UJ
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB_102314		
Lab Sample ID:	MC34663-30	Date Sampled:	10/23/14
Matrix:	AQ - Trip Blank Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	4J
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	4J
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		70-130%
2037-26-5	Toluene-D8	95%		70-130%
460-00-4	4-Bromofluorobenzene	99%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	14185-001		
Lab Sample ID:	MC34663-31	Date Sampled:	10/21/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N91779.D	1	11/03/14	JB	n/a	n/a	MSN3391
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	UJ
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	UJ
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	UJ
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	UJ
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	UJ
156-59-2	cis-1,2-Dichloroethene	47.3	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	0.59	1.0	0.47	ug/l	J
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	UJ

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	14185-001		
Lab Sample ID:	MC34663-31	Date Sampled:	10/21/14
Matrix:	AQ - Ground Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	9.8	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	18.9	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		70-130%
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	105%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SDG: MC34664

Accutest Laboratories

Report of Analysis

Client Sample ID:	SW10-5		
Lab Sample ID:	MC34664-1	Date Sampled:	10/23/14
Matrix:	AQ - Surface Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L88100.D	1	10/31/14	GK	n/a	n/a	MSL3926
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW10-5		
Lab Sample ID:	MC34664-1	Date Sampled:	10/23/14
Matrix:	AQ - Surface Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	1.0	1.0	0.40	ug/l	J
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		70-130%
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	128%		70-130%

(a) The pH of the sample aliquot for VOA analysis was >2 at time of analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SW10-6		
Lab Sample ID:	MC34664-2	Date Sampled:	10/23/14
Matrix:	AQ - Surface Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L88101.D	1	10/31/14	GK	n/a	n/a	MSL3926
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW10-6		
Lab Sample ID:	MC34664-2	Date Sampled:	10/23/14
Matrix:	AQ - Surface Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		70-130%
2037-26-5	Toluene-D8	104%		70-130%
460-00-4	4-Bromofluorobenzene	130%		70-130%

(a) The pH of the sample aliquot for VOA analysis was >2 at time of analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SW10-7		
Lab Sample ID:	MC34664-3	Date Sampled:	10/23/14
Matrix:	AQ - Surface Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L88105.D	1	10/31/14	GK	n/a	n/a	MSL3926
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW10-7		
Lab Sample ID:	MC34664-3	Date Sampled:	10/23/14
Matrix:	AQ - Surface Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		70-130%
2037-26-5	Toluene-D8	104%		70-130%
460-00-4	4-Bromofluorobenzene	125%		70-130%

(a) The pH of the sample aliquot for VOA analysis was >2 at time of analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SW3-2		
Lab Sample ID:	MC34664-4	Date Sampled:	10/23/14
Matrix:	AQ - Surface Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L88106.D	1	10/31/14	GK	n/a	n/a	MSL3926
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW3-2		
Lab Sample ID:	MC34664-4	Date Sampled:	10/23/14
Matrix:	AQ - Surface Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	128%		70-130%

(a) The pH of the sample aliquot for VOA analysis was >2 at time of analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SW3-3		
Lab Sample ID:	MC34664-5	Date Sampled:	10/23/14
Matrix:	AQ - Surface Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L88107.D	1	10/31/14	GK	n/a	n/a	MSL3926
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW3-3		
Lab Sample ID:	MC34664-5	Date Sampled:	10/23/14
Matrix:	AQ - Surface Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		70-130%
2037-26-5	Toluene-D8	103%		70-130%
460-00-4	4-Bromofluorobenzene	128%		70-130%

(a) The pH of the sample aliquot for VOA analysis was >2 at time of analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SW3-15		
Lab Sample ID:	MC34664-6	Date Sampled:	10/23/14
Matrix:	AQ - Surface Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L88099.D	1	10/31/14	GK	n/a	n/a	MSL3926
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW3-15		
Lab Sample ID:	MC34664-6	Date Sampled:	10/23/14
Matrix:	AQ - Surface Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		70-130%
2037-26-5	Toluene-D8	104%		70-130%
460-00-4	4-Bromofluorobenzene	122%		70-130%

(a) The pH of the sample aliquot for VOA analysis was >2 at time of analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: L88108.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	SW99-10		
Lab Sample ID:	MC34664-7	Date Sampled:	10/22/14
Matrix:	AQ - Surface Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L88108.D	1	10/31/14	GK	n/a	n/a	MSL3926
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW99-10		
Lab Sample ID:	MC34664-7	Date Sampled:	10/22/14
Matrix:	AQ - Surface Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		70-130%
2037-26-5	Toluene-D8	105%		70-130%
460-00-4	4-Bromofluorobenzene	129%		70-130%

(a) The pH of the sample aliquot for VOA analysis was >2 at time of analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TB-10232014		
Lab Sample ID:	MC34664-8	Date Sampled:	10/23/14
Matrix:	AQ - Trip Blank Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L88109.D	1	10/31/14	GK	n/a	n/a	MSL3926
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	UJ
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	UJ
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-10232014		
Lab Sample ID:	MC34664-8	Date Sampled:	10/23/14
Matrix:	AQ - Trip Blank Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	U J
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	U J
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	U J
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		70-130%
2037-26-5	Toluene-D8	104%		70-130%
460-00-4	4-Bromofluorobenzene	127%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: L88110.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	SW10-6Q		
Lab Sample ID:	MC34664-9	Date Sampled:	10/23/14
Matrix:	AQ - Surface Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L88110.D	1	10/31/14	GK	n/a	n/a	MSL3926
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW10-6Q		
Lab Sample ID:	MC34664-9	Date Sampled:	10/23/14
Matrix:	AQ - Surface Water	Date Received:	10/25/14
Method:	SW846 8260C	Percent Solids:	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		70-130%
2037-26-5	Toluene-D8	106%		70-130%
460-00-4	4-Bromofluorobenzene	129%		70-130%

(a) The pH of the sample aliquot for VOA analysis was >2 at time of analysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New England ACCUTEST LABORATORIES

11/03/14

Technical Report for

EA Engineering

NFARS, Niagara Falls, NY

6265401

Accutest Job Number: MC34663

Sampling Dates: 10/21/14 - 10/23/14

Report to:

mmiller@eaest.com
fdesantis@eaest.com

ATTN: Distribution6

Total number of pages in report: **159**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Reza Tand
Lab Director

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Sample Summary

EA Engineering

Job No: MC34663

NFARS, Niagara Falls, NY
Project No: 6265401

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC34663-1	10/23/14	11:50	CR	10/25/14	AQ	Ground Water	MW1-1DA
MC34663-2	10/23/14	14:04	CR	10/25/14	AQ	Ground Water	MW3-3DA
MC34663-3	10/23/14	12:25	CR	10/25/14	AQ	Ground Water	MW3-4DA
MC34663-4	10/23/14	12:23	CR	10/25/14	AQ	Ground Water	PW3-3A
MC34663-5	10/23/14	14:13	CR	10/25/14	AQ	Ground Water	PZ3-6D
MC34663-6	10/23/14	14:40	CR	10/25/14	AQ	Ground Water	PZ3-7D
MC34663-7	10/23/14	14:45	CR	10/25/14	AQ	Ground Water	PZ3-8D
MC34663-8	10/23/14	08:56	CR	10/25/14	AQ	Ground Water	MW5-1DA
MC34663-9	10/23/14	08:26	CR	10/25/14	AQ	Ground Water	MW5-5D
MC34663-10	10/23/14	08:34	CR	10/25/14	AQ	Ground Water	MW5-6
MC34663-10D	10/23/14	08:34	CR	10/25/14	AQ	Water Dup/MSD	MW5-6
MC34663-10S	10/23/14	08:34	CR	10/25/14	AQ	Water Matrix Spike	MW5-6
MC34663-11	10/23/14	08:50	CR	10/25/14	AQ	Ground Water	RW5-1

Sample Summary
(continued)

EA Engineering

Job No: MC34663

NFARS, Niagara Falls, NY
Project No: 6265401

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC34663-12	10/23/14	08:43	CR	10/25/14	AQ	Ground Water	RW5-2
MC34663-13	10/23/14	08:20	CR	10/25/14	AQ	Ground Water	RW5-4
MC34663-14	10/23/14	11:34	CR	10/25/14	AQ	Ground Water	MW7-1D
MC34663-15	10/23/14	09:13	CR	10/25/14	AQ	Ground Water	MW8-1
MC34663-16	10/23/14	09:17	CR	10/25/14	AQ	Ground Water	MW8-10D
MC34663-17	10/23/14	10:13	CR	10/25/14	AQ	Ground Water	MW10-1DA
MC34663-18	10/23/14	11:05	CR	10/25/14	AQ	Ground Water	MW10-3D
MC34663-19	10/23/14	10:19	CR	10/25/14	AQ	Ground Water	MW10-4D
MC34663-20	10/23/14	10:22	CR	10/25/14	AQ	Ground Water	MW10-4E
MC34663-20D	10/23/14	10:22	CR	10/25/14	AQ	Water Dup/MSD	MW10-4E
MC34663-20S	10/23/14	10:22	CR	10/25/14	AQ	Water Matrix Spike	MW10-4E
MC34663-21	10/23/14	11:00	CR	10/25/14	AQ	Ground Water	MW10-9D
MC34663-22	10/23/14	09:58	CR	10/25/14	AQ	Ground Water	MW10-10D

Sample Summary
(continued)

EA Engineering

Job No: MC34663

NFARS, Niagara Falls, NY
Project No: 6265401

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC34663-23	10/23/14	10:35	CR	10/25/14	AQ	Ground Water	PW10-1
MC34663-24	10/23/14	11:22	CR	10/25/14	AQ	Ground Water	PW10-2
MC34663-25	10/23/14	07:58	CR	10/25/14	AQ	Ground Water	MW13-4D
MC34663-26	10/23/14	07:54	CR	10/25/14	AQ	Ground Water	MW13-5D
MC34663-27	10/23/14	00:00	CR	10/25/14	AQ	Ground Water	MW5-5DQ
MC34663-28	10/23/14	00:00	CR	10/25/14	AQ	Ground Water	MW10-10DQ
MC34663-29	10/23/14	14:50	CR	10/25/14	AQ	Ground Water	PDB_BLK102314
MC34663-30	10/23/14	00:00	CR	10/25/14	AQ	Trip Blank Water	TB_102314
MC34663-31	10/21/14	15:30	CR	10/25/14	AQ	Ground Water	14185-001

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: EA Engineering **Job No** MC34663

Site: NFARS, Niagara Falls, NY **Report Date** 11/3/2014 5:50:28 PM

30 Sample(s), 1 Trip Blank(s) were collected on between 10/21/2014 and 10/23/2014 and were received at Accutest on 10/25/2014 properly preserved, at 1.9 Deg. C and intact. These Samples received an Accutest job number of MC34663. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260C

Matrix AQ **Batch ID:** MSN3391

- All samples were analyzed within the recommended method holding time.
- Sample(s) MC34663-27MS, MC34663-27MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for 1,1-Dichloroethene, 2-Butanone (MEK) are outside control limits. Blank Spike meets program technical requirements.
- MC34663-27MS/MSD Recovery(s) for Vinyl chloride are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- MSN3391-BS, MC34663-27MS, MC34663-27MSD for Carbon disulfide: Outside control limits. Associated samples are non-detect for this compound.
- MC34663-27MSD Recovery(s) for 1,1-Dichloroethene, 2-Hexanone, Acetone, Methylcyclohexane are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- MC34663-27MS Recovery(s) for 1,1-Dichloroethene, 2-Hexanone, Acetone, Bromomethane, Methylcyclohexane are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Initial calibration verification standard MSN3345-ICV3345 for Methyl Acetate exceeds 30% Difference. (response bias high). Associated samples are non-detect for these compounds.

Matrix AQ **Batch ID:** MSV1313

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC34663-10MS, MC34663-10MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for 2-Hexanone, Acetone are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for 2-Hexanone, trans-1,3-Dichloropropene, Acetone are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- RPD(s) for MSD for 1,4-Dioxane, Acetone are outside control limits for sample MC34663-10MSD. High RPD due to possible matrix interference and/or sample non-homogeneity.
- MSV1313-BS, MC34663-10MSD for 1,4-Dioxane: Outside control limits. Associated samples are non-detect for this compound.
- Initial calibration verification standard MSV1312-ICV1312 for 1,4-dioxane, cis-1,3-dichloropropene, trans-1,3-dichloropropene exceed 30% Difference (response bias high). Associated samples are non-detect for these compounds.

Matrix AQ **Batch ID:** MSV1314

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC34663-20MS, MC34663-20MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for 2-Hexanone, Acetone, Carbon disulfide, Iodomethane are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.

Volatiles by GCMS By Method SW846 8260C

Matrix AQ **Batch ID:** MSV1314

- Matrix Spike Duplicate Recovery(s) for 1,2,3-Trichlorobenzene, 2-Hexanone, Acetone are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- RPD(s) for MSD for 1,4-Dioxane are outside control limits for sample MC34663-20MSD. High RPD due to possible matrix interference and/or sample non-homogeneity.
- MSV1314-BS, MSV1314-BS1, MC34663-20MSD for 1,4-Dioxane: Outside control limits. Associated samples are non-detect for this compound.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(MC34663).

Summary of Hits

Job Number: MC34663
Account: EA Engineering
Project: NFARS, Niagara Falls, NY
Collected: 10/21/14 thru 10/23/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC34663-1	**MW1-1DA**					
No hits reported in this sample.						
MC34663-2	**MW3-3DA**					
cis-1,2-Dichloroethene		6.0	1.0	0.44	ug/l	SW846 8260C
Vinyl chloride		25.1	1.0	0.45	ug/l	SW846 8260C
MC34663-3	**MW3-4DA**					
cis-1,2-Dichloroethene		5.7	1.0	0.44	ug/l	SW846 8260C
Vinyl chloride		15.5	1.0	0.45	ug/l	SW846 8260C
MC34663-4	**PW3-3A**					
Acetone		4.2 J	10	2.5	ug/l	SW846 8260C
cis-1,2-Dichloroethene		2.6	1.0	0.44	ug/l	SW846 8260C
Trichloroethene		0.72 J	1.0	0.40	ug/l	SW846 8260C
Vinyl chloride		0.46 J	1.0	0.45	ug/l	SW846 8260C
MC34663-5	**PZ3-6D**					
cis-1,2-Dichloroethene		2.0	1.0	0.44	ug/l	SW846 8260C
Vinyl chloride		4.7	1.0	0.45	ug/l	SW846 8260C
MC34663-6	**PZ3-7D**					
cis-1,2-Dichloroethene		8.8	1.0	0.44	ug/l	SW846 8260C
Vinyl chloride		27.4	1.0	0.45	ug/l	SW846 8260C
MC34663-7	**PZ3-8D**					
Vinyl chloride		0.47 J	1.0	0.45	ug/l	SW846 8260C
MC34663-8	**MW5-1DA**					
cis-1,2-Dichloroethene		0.94 J	1.0	0.44	ug/l	SW846 8260C
MC34663-9	**MW5-5D**					
1,1-Dichloroethene		2.3	1.0	0.29	ug/l	SW846 8260C
cis-1,2-Dichloroethene		1510	100	44	ug/l	SW846 8260C
trans-1,2-Dichloroethene		40.5	1.0	0.47	ug/l	SW846 8260C
Trichloroethene		0.75 J	1.0	0.40	ug/l	SW846 8260C

Summary of Hits

Job Number: MC34663
Account: EA Engineering
Project: NFARS, Niagara Falls, NY
Collected: 10/21/14 thru 10/23/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Vinyl chloride		2280	100	45	ug/l	SW846 8260C
MC34663-10	**MW5-6**					
Chloroethane		6.2	2.0	0.37	ug/l	SW846 8260C
cis-1,2-Dichloroethene		15.7	1.0	0.44	ug/l	SW846 8260C
Trichloroethene		2.5	1.0	0.40	ug/l	SW846 8260C
Vinyl chloride		2.7	1.0	0.45	ug/l	SW846 8260C
MC34663-11	**RW5-1**					
1,1-Dichloroethene		9.7	1.0	0.29	ug/l	SW846 8260C
cis-1,2-Dichloroethene		2960	100	44	ug/l	SW846 8260C
trans-1,2-Dichloroethene		10.1	1.0	0.47	ug/l	SW846 8260C
Trichloroethene		1.0	1.0	0.40	ug/l	SW846 8260C
Vinyl chloride		1030	100	45	ug/l	SW846 8260C
MC34663-12	**RW5-2**					
cis-1,2-Dichloroethene		12.6	1.0	0.44	ug/l	SW846 8260C
Trichloroethene		2.5	1.0	0.40	ug/l	SW846 8260C
Vinyl chloride		0.69 J	1.0	0.45	ug/l	SW846 8260C
MC34663-13	**RW5-4**					
Chloroethane		1.7 J	2.0	0.37	ug/l	SW846 8260C
cis-1,2-Dichloroethene		65.7	1.0	0.44	ug/l	SW846 8260C
Vinyl chloride		101	1.0	0.45	ug/l	SW846 8260C
MC34663-14	**MW7-1D**					
Benzene		7.0	0.50	0.25	ug/l	SW846 8260C
MC34663-15	**MW8-1**					
Benzene		0.28 J	0.50	0.25	ug/l	SW846 8260C
1,1-Dichloroethene		0.45 J	1.0	0.29	ug/l	SW846 8260C
cis-1,2-Dichloroethene		132	1.0	0.44	ug/l	SW846 8260C
Trichloroethene		1.3	1.0	0.40	ug/l	SW846 8260C
Vinyl chloride		93.5	1.0	0.45	ug/l	SW846 8260C
MC34663-16	**MW8-10D**					
cis-1,2-Dichloroethene		8.5	1.0	0.44	ug/l	SW846 8260C
trans-1,2-Dichloroethene		1.1	1.0	0.47	ug/l	SW846 8260C

Summary of Hits

Job Number: MC34663
Account: EA Engineering
Project: NFARS, Niagara Falls, NY
Collected: 10/21/14 thru 10/23/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Vinyl chloride		3.3	1.0	0.45	ug/l	SW846 8260C
MC34663-17	**MW10-1DA**					
Benzene		16.5	0.50	0.25	ug/l	SW846 8260C
1,1-Dichloroethene		2.6	1.0	0.29	ug/l	SW846 8260C
cis-1,2-Dichloroethene		2210	100	44	ug/l	SW846 8260C
trans-1,2-Dichloroethene		17.6	1.0	0.47	ug/l	SW846 8260C
Toluene		0.53 J	1.0	0.22	ug/l	SW846 8260C
Vinyl chloride		742	100	45	ug/l	SW846 8260C
MC34663-18	**MW10-3D**					
No hits reported in this sample.						
MC34663-19	**MW10-4D**					
cis-1,2-Dichloroethene		48.4	1.0	0.44	ug/l	SW846 8260C
Vinyl chloride		1.6	1.0	0.45	ug/l	SW846 8260C
MC34663-20	**MW10-4E**					
cis-1,2-Dichloroethene		9.5	1.0	0.44	ug/l	SW846 8260C
Vinyl chloride		4.8	1.0	0.45	ug/l	SW846 8260C
MC34663-21	**MW10-9D**					
cis-1,2-Dichloroethene		8.0	1.0	0.44	ug/l	SW846 8260C
Vinyl chloride		1.7	1.0	0.45	ug/l	SW846 8260C
MC34663-22	**MW10-10D**					
Benzene		0.39 J	0.50	0.25	ug/l	SW846 8260C
Carbon tetrachloride		0.24 J	1.0	0.23	ug/l	SW846 8260C
Chloroform		9.0	1.0	0.31	ug/l	SW846 8260C
1,1-Dichloroethene		2.5	1.0	0.29	ug/l	SW846 8260C
cis-1,2-Dichloroethene		4040	100	44	ug/l	SW846 8260C
trans-1,2-Dichloroethene		15.0	1.0	0.47	ug/l	SW846 8260C
Methylene chloride		0.51 J	2.0	0.39	ug/l	SW846 8260C
Trichloroethene		285	100	40	ug/l	SW846 8260C
Vinyl chloride		31.2	1.0	0.45	ug/l	SW846 8260C
MC34663-23	**PW10-1**					
Chloroform		0.34 J	1.0	0.31	ug/l	SW846 8260C

Summary of Hits

Job Number: MC34663
Account: EA Engineering
Project: NFARS, Niagara Falls, NY
Collected: 10/21/14 thru 10/23/14

Lab Sample ID / Client Sample ID / Analyte	Result/ Qual	RL	MDL	Units	Method
1,1-Dichloroethene	0.41 J	1.0	0.29	ug/l	SW846 8260C
cis-1,2-Dichloroethene	232	1.0	0.44	ug/l	SW846 8260C
trans-1,2-Dichloroethene	3.4	1.0	0.47	ug/l	SW846 8260C
Trichloroethene	70.2	1.0	0.40	ug/l	SW846 8260C
Vinyl chloride	3.6	1.0	0.45	ug/l	SW846 8260C
MC34663-24 PW10-2					
Acetone	4.3 J	10	2.5	ug/l	SW846 8260C
Benzene	3.1	0.50	0.25	ug/l	SW846 8260C
Carbon tetrachloride	0.68 J	1.0	0.23	ug/l	SW846 8260C
Cyclohexane	2.2 J	5.0	0.62	ug/l	SW846 8260C
1,1-Dichloroethene	3.2	1.0	0.29	ug/l	SW846 8260C
cis-1,2-Dichloroethene	692	50	22	ug/l	SW846 8260C
trans-1,2-Dichloroethene	3.5	1.0	0.47	ug/l	SW846 8260C
Methylcyclohexane	1.5 J	5.0	0.49	ug/l	SW846 8260C
Trichloroethene	9.6	1.0	0.40	ug/l	SW846 8260C
Vinyl chloride	172	1.0	0.45	ug/l	SW846 8260C
MC34663-25 MW13-4D					
Benzene	0.40 J	0.50	0.25	ug/l	SW846 8260C
cis-1,2-Dichloroethene	12.6	1.0	0.44	ug/l	SW846 8260C
Vinyl chloride	13.8	1.0	0.45	ug/l	SW846 8260C
MC34663-26 MW13-5D					
cis-1,2-Dichloroethene	19.3	1.0	0.44	ug/l	SW846 8260C
trans-1,2-Dichloroethene	0.95 J	1.0	0.47	ug/l	SW846 8260C
Trichloroethene	1.7	1.0	0.40	ug/l	SW846 8260C
Vinyl chloride	2.1	1.0	0.45	ug/l	SW846 8260C
MC34663-27 MW5-5DQ					
Acetone	4.7 J	10	2.5	ug/l	SW846 8260C
cis-1,2-Dichloroethene	964	50	22	ug/l	SW846 8260C
trans-1,2-Dichloroethene	33.1	1.0	0.47	ug/l	SW846 8260C
Toluene	0.51 J	1.0	0.22	ug/l	SW846 8260C
Trichloroethene	0.98 J	1.0	0.40	ug/l	SW846 8260C
Vinyl chloride	1250	50	22	ug/l	SW846 8260C
MC34663-28 MW10-10DQ					
Benzene	0.44 J	0.50	0.25	ug/l	SW846 8260C
Carbon disulfide	0.55 J	5.0	0.46	ug/l	SW846 8260C

Summary of Hits

Job Number: MC34663
Account: EA Engineering
Project: NFARS, Niagara Falls, NY
Collected: 10/21/14 thru 10/23/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Chloroform		7.4	1.0	0.31	ug/l	SW846 8260C
1,1-Dichloroethene		2.2	1.0	0.29	ug/l	SW846 8260C
cis-1,2-Dichloroethene		3010	50	22	ug/l	SW846 8260C
trans-1,2-Dichloroethene		21.9	1.0	0.47	ug/l	SW846 8260C
Methylene chloride		0.47 J	2.0	0.39	ug/l	SW846 8260C
Trichloroethene		306	1.0	0.40	ug/l	SW846 8260C
Vinyl chloride		27.7	1.0	0.45	ug/l	SW846 8260C
MC34663-29	**PDB_BLK102314**					
No hits reported in this sample.						
MC34663-30	**TB_102314**					
No hits reported in this sample.						
MC34663-31	**14185-001**					
cis-1,2-Dichloroethene		47.3	1.0	0.44	ug/l	SW846 8260C
trans-1,2-Dichloroethene		0.59 J	1.0	0.47	ug/l	SW846 8260C
Trichloroethene		9.8	1.0	0.40	ug/l	SW846 8260C
Vinyl chloride		18.9	1.0	0.45	ug/l	SW846 8260C

New England ACCUTEST LABORATORIES

4

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW1-1DA		
Lab Sample ID:	MC34663-1	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36253.D	1	11/01/14	AMY	n/a	n/a	MSV1313
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW1-1DA		
Lab Sample ID:	MC34663-1	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	99%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW3-3DA
Lab Sample ID: MC34663-2
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: NFARS, Niagara Falls, NY

Date Sampled: 10/23/14
Date Received: 10/25/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36254.D	1	11/01/14	AMY	n/a	n/a	MSV1313
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	6.0	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW3-3DA
Lab Sample ID: MC34663-2
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: NFARS, Niagara Falls, NY

Date Sampled: 10/23/14
Date Received: 10/25/14
Percent Solids: n/a

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	25.1	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		70-130%
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW3-4DA		
Lab Sample ID:	MC34663-3	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36255.D	1	11/01/14	AMY	n/a	n/a	MSV1313
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	5.7	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW3-4DA
Lab Sample ID: MC34663-3
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: NFARS, Niagara Falls, NY

Date Sampled: 10/23/14
Date Received: 10/25/14
Percent Solids: n/a

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	15.5	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		70-130%
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW3-3A		
Lab Sample ID:	MC34663-4	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36256.D	1	11/01/14	AMY	n/a	n/a	MSV1313
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	4.2	10	2.5	ug/l	J
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	2.6	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW3-3A		
Lab Sample ID:	MC34663-4	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	0.72	1.0	0.40	ug/l	J
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	0.46	1.0	0.45	ug/l	J
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		70-130%
2037-26-5	Toluene-D8	102%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PZ3-6D		
Lab Sample ID:	MC34663-5	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36257.D	1	11/01/14	AMY	n/a	n/a	MSV1313
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	2.0	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ3-6D
Lab Sample ID: MC34663-5
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: NFARS, Niagara Falls, NY

Date Sampled: 10/23/14
Date Received: 10/25/14
Percent Solids: n/a

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	4.7	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		70-130%
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PZ3-7D		
Lab Sample ID:	MC34663-6	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36258.D	1	11/01/14	AMY	n/a	n/a	MSV1313
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	8.8	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ3-7D
Lab Sample ID: MC34663-6
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: NFARS, Niagara Falls, NY

Date Sampled: 10/23/14
Date Received: 10/25/14
Percent Solids: n/a

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	27.4	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		70-130%
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	99%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PZ3-8D		
Lab Sample ID:	MC34663-7	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36259.D	1	11/01/14	AMY	n/a	n/a	MSV1313
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ3-8D
Lab Sample ID: MC34663-7
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: NFARS, Niagara Falls, NY

Date Sampled: 10/23/14
Date Received: 10/25/14
Percent Solids: n/a

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	0.47	1.0	0.45	ug/l	J
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		70-130%
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW5-1DA
Lab Sample ID: MC34663-8
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: NFARS, Niagara Falls, NY

Date Sampled: 10/23/14
Date Received: 10/25/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36260.D	1	11/01/14	AMY	n/a	n/a	MSV1313
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.94	1.0	0.44	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW5-1DA
Lab Sample ID: MC34663-8
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: NFARS, Niagara Falls, NY

Date Sampled: 10/23/14
Date Received: 10/25/14
Percent Solids: n/a

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		70-130%
2037-26-5	Toluene-D8	103%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW5-5D
Lab Sample ID: MC34663-9
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: NFARS, Niagara Falls, NY

Date Sampled: 10/23/14
Date Received: 10/25/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36261.D	1	11/01/14	AMY	n/a	n/a	MSV1313
Run #2	V36301.D	100	11/03/14	AMY	n/a	n/a	MSV1314

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	2.3	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	1510 [a]	100	44	ug/l	
156-60-5	trans-1,2-Dichloroethene	40.5	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW5-5D		
Lab Sample ID:	MC34663-9	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	0.75	1.0	0.40	ug/l	J
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	2280 [a]	100	45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%	108%	70-130%
2037-26-5	Toluene-D8	97%	95%	70-130%
460-00-4	4-Bromofluorobenzene	99%	101%	70-130%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW5-6		
Lab Sample ID:	MC34663-10	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36243.D	1	10/31/14	AMY	n/a	n/a	MSV1313
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	6.2	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	15.7	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW5-6		
Lab Sample ID:	MC34663-10	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

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CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	2.5	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	2.7	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		70-130%
2037-26-5	Toluene-D8	98%		70-130%
460-00-4	4-Bromofluorobenzene	99%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RW5-1		
Lab Sample ID:	MC34663-11	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36262.D	1	11/01/14	AMY	n/a	n/a	MSV1313
Run #2	V36302.D	100	11/03/14	AMY	n/a	n/a	MSV1314

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

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CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	9.7	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	2960 [a]	100	44	ug/l	
156-60-5	trans-1,2-Dichloroethene	10.1	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RW5-1		
Lab Sample ID:	MC34663-11	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	1.0	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	1030 [a]	100	45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%	107%	70-130%
2037-26-5	Toluene-D8	101%	101%	70-130%
460-00-4	4-Bromofluorobenzene	99%	100%	70-130%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RW5-2		
Lab Sample ID:	MC34663-12	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36297.D	1	11/03/14	AMY	n/a	n/a	MSV1314
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	12.6	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RW5-2		
Lab Sample ID:	MC34663-12	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	2.5	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	0.69	1.0	0.45	ug/l	J
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		70-130%
2037-26-5	Toluene-D8	96%		70-130%
460-00-4	4-Bromofluorobenzene	102%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RW5-4		
Lab Sample ID:	MC34663-13	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36276.D	1	11/02/14	AMY	n/a	n/a	MSV1314
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	1.7	2.0	0.37	ug/l	J
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	65.7	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RW5-4		
Lab Sample ID:	MC34663-13	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	101	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7-1D		
Lab Sample ID:	MC34663-14	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36277.D	1	11/02/14	AMY	n/a	n/a	MSV1314
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	7.0	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW7-1D		
Lab Sample ID:	MC34663-14	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-1		
Lab Sample ID:	MC34663-15	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36278.D	1	11/02/14	AMY	n/a	n/a	MSV1314
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	0.28	0.50	0.25	ug/l	J
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	0.45	1.0	0.29	ug/l	J
156-59-2	cis-1,2-Dichloroethene	132	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-1		
Lab Sample ID:	MC34663-15	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	1.3	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	93.5	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		70-130%
2037-26-5	Toluene-D8	102%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-10D		
Lab Sample ID:	MC34663-16	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36279.D	1	11/02/14	AMY	n/a	n/a	MSV1314
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

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CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	8.5	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	1.1	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW8-10D		
Lab Sample ID:	MC34663-16	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	3.3	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-1DA		
Lab Sample ID:	MC34663-17	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36280.D	1	11/02/14	AMY	n/a	n/a	MSV1314
Run #2	V36303.D	100	11/03/14	AMY	n/a	n/a	MSV1314

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	16.5	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	2.6	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	2210 [a]	100	44	ug/l	
156-60-5	trans-1,2-Dichloroethene	17.6	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-1DA		
Lab Sample ID:	MC34663-17	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	0.53	1.0	0.22	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	742 [a]	100	45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%	110%	70-130%
2037-26-5	Toluene-D8	96%	97%	70-130%
460-00-4	4-Bromofluorobenzene	101%	102%	70-130%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-3D		
Lab Sample ID:	MC34663-18	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36298.D	1	11/03/14	AMY	n/a	n/a	MSV1314
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

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CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-3D		
Lab Sample ID:	MC34663-18	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	99%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-4D		
Lab Sample ID:	MC34663-19	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36282.D	1	11/02/14	AMY	n/a	n/a	MSV1314
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	48.4	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW10-4D
Lab Sample ID: MC34663-19
Matrix: AQ - Ground Water
Method: SW846 8260C
Project: NFARS, Niagara Falls, NY

Date Sampled: 10/23/14
Date Received: 10/25/14
Percent Solids: n/a

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	1.6	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		70-130%
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-4E		
Lab Sample ID:	MC34663-20	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36275.D	1	11/02/14	AMY	n/a	n/a	MSV1314
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

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CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	9.5	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-4E		
Lab Sample ID:	MC34663-20	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	4.8	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	98%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-9D		
Lab Sample ID:	MC34663-21	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36283.D	1	11/02/14	AMY	n/a	n/a	MSV1314
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	8.0	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-9D		
Lab Sample ID:	MC34663-21	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	1.7	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	117%		70-130%
2037-26-5	Toluene-D8	103%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-10D		
Lab Sample ID:	MC34663-22	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36284.D	1	11/02/14	AMY	n/a	n/a	MSV1314
Run #2	V36304.D	100	11/03/14	AMY	n/a	n/a	MSV1314

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

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CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	0.39	0.50	0.25	ug/l	J
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	0.24	1.0	0.23	ug/l	J
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	9.0	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	2.5	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	4040 [a]	100	44	ug/l	
156-60-5	trans-1,2-Dichloroethene	15.0	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-10D		
Lab Sample ID:	MC34663-22	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	0.51	2.0	0.39	ug/l	J
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	285 [a]	100	40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	31.2	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%	110%	70-130%
2037-26-5	Toluene-D8	97%	99%	70-130%
460-00-4	4-Bromofluorobenzene	101%	99%	70-130%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW10-1		
Lab Sample ID:	MC34663-23	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36285.D	1	11/02/14	AMY	n/a	n/a	MSV1314
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	0.34	1.0	0.31	ug/l	J
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	0.41	1.0	0.29	ug/l	J
156-59-2	cis-1,2-Dichloroethene	232	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	3.4	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW10-1		
Lab Sample ID:	MC34663-23	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	70.2	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	3.6	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		70-130%
2037-26-5	Toluene-D8	103%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW10-2		
Lab Sample ID:	MC34663-24	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N91780.D	1	11/03/14	JB	n/a	n/a	MSN3391
Run #2	N91785.D	50	11/03/14	JB	n/a	n/a	MSN3391

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

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CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	4.3	10	2.5	ug/l	J
71-43-2	Benzene	3.1	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	0.68	1.0	0.23	ug/l	J
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	2.2	5.0	0.62	ug/l	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	3.2	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	692 [a]	50	22	ug/l	
156-60-5	trans-1,2-Dichloroethene	3.5	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW10-2		
Lab Sample ID:	MC34663-24	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	1.5	5.0	0.49	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	9.6	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	172	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%	94%	70-130%
2037-26-5	Toluene-D8	102%	103%	70-130%
460-00-4	4-Bromofluorobenzene	106%	104%	70-130%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW13-4D		
Lab Sample ID:	MC34663-25	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36286.D	1	11/02/14	AMY	n/a	n/a	MSV1314
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

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CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	0.40	0.50	0.25	ug/l	J
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	12.6	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW13-4D		
Lab Sample ID:	MC34663-25	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	13.8	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		70-130%
2037-26-5	Toluene-D8	97%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW13-5D		
Lab Sample ID:	MC34663-26	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36287.D	1	11/02/14	AMY	n/a	n/a	MSV1314
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	19.3	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	0.95	1.0	0.47	ug/l	J
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW13-5D		
Lab Sample ID:	MC34663-26	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	1.7	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	2.1	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		70-130%
2037-26-5	Toluene-D8	102%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW5-5DQ		
Lab Sample ID:	MC34663-27	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N91777.D	1	11/03/14	JB	n/a	n/a	MSN3391
Run #2	N91783.D	50	11/03/14	JB	n/a	n/a	MSN3391

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

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CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	4.7	10	2.5	ug/l	J
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	964 [a]	50	22	ug/l	
156-60-5	trans-1,2-Dichloroethene	33.1	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW5-5DQ		
Lab Sample ID:	MC34663-27	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	0.51	1.0	0.22	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	0.98	1.0	0.40	ug/l	J
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	1250 [a]	50	22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%	94%	70-130%
2037-26-5	Toluene-D8	100%	101%	70-130%
460-00-4	4-Bromofluorobenzene	101%	101%	70-130%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-10DQ		
Lab Sample ID:	MC34663-28	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N91778.D	1	11/03/14	JB	n/a	n/a	MSN3391
Run #2	N91784.D	50	11/03/14	JB	n/a	n/a	MSN3391

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	0.44	0.50	0.25	ug/l	J
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	0.55	5.0	0.46	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	7.4	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	2.2	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	3010 [a]	50	22	ug/l	
156-60-5	trans-1,2-Dichloroethene	21.9	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-10DQ		
Lab Sample ID:	MC34663-28	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	0.47	2.0	0.39	ug/l	J
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	306	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	27.7	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%	95%	70-130%
2037-26-5	Toluene-D8	101%	103%	70-130%
460-00-4	4-Bromofluorobenzene	102%	103%	70-130%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PDB_BLK102314		
Lab Sample ID:	MC34663-29	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36274.D	1	11/02/14	AMY	n/a	n/a	MSV1314
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PDB_BLK102314		
Lab Sample ID:	MC34663-29	**Date Sampled:**	10/23/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB_102314		
Lab Sample ID:	MC34663-30	**Date Sampled:**	10/23/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V36273.D	1	11/02/14	AMY	n/a	n/a	MSV1314
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB_102314		
Lab Sample ID:	MC34663-30	**Date Sampled:**	10/23/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		70-130%
2037-26-5	Toluene-D8	95%		70-130%
460-00-4	4-Bromofluorobenzene	99%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	14185-001		
Lab Sample ID:	MC34663-31	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N91779.D	1	11/03/14	JB	n/a	n/a	MSN3391
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	47.3	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	0.59	1.0	0.47	ug/l	J
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	14185-001		
Lab Sample ID:	MC34663-31	**Date Sampled:**	10/21/14
Matrix:	AQ - Ground Water	**Date Received:**	10/25/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	NFARS, Niagara Falls, NY		

VOA EA East Project

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	9.8	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	18.9	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		70-130%
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	105%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New England ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

Accutest Laboratories of New England
495 Technology Center West, Building One
TEL. 508-481-6200 FAX: 508-481-7753
www.accutest.com

PAGE 1 OF 3

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: MC34663

Client / Reporting Information

Company Name: EA Engineering
Street Address: 6712 Brooklawn Pkwy. Ste. 104
City: Syracuse, State: NY, Zip: 13211
Project Contact: Rob Peterson, E-mail: rpeterson@eaest.com
Phone #: 315-708-6183, Fax #:
Sampler(s) Name(s): Rob Peterson, Phone #: 315-708-6183

Project Information

Project Name: NFARS
Street:
City: Niagara Falls, NY
Project#: 6265401
Client PO#:
Project Manager: Ben Young

Billing Information (If different from Report to)

Company Name: northeastap@eaest.com
Street Address:
City: State: Zip:
Attention: PO#:

Requested Analysis (see TEST CODE sheet)

82608 VOCs

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Bisulfate	82608 VOCs	LAB USE ONLY
-1	MW1-1DA		10-23-14	1150	RP	GW	3	3									X	
-2	MW3-3DA			1404			3	3									X	
-3	MW3-4DA			1225			3	3									X	
-4	PW3-3A			1223			3	3									X	
-5	PZ3-6D			1413			3	3									X	
-6	PZ3-7D			1440			3	3									X	
-7	PZ3-8D			1445			3	3									X	
-8	MW5-1DA			0856			3	3									X	
-9	MW5-5D			0826			3	3									X	
-10 S D	MW5-6			0834			9	9									X	6oc 3M3
-11	RW5-1			0850			3	3									X	3M4, 3N1
-12	RW5-2			0843			3	3									X	

Turnaround Time (Business days)

- [x] Std. 10 Business Days
- [ ] Std. 5 Business Days (By Contract only)
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [x] FULLT1 (Level 3+4) Level 4
- [ ] CT RCP
- [ ] MA MCP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [x] EDD Format ERPIMS
- [x] Other NYSDEC EQUIS

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

Use MW5-6 for MS/MSD.

ACCUTEST SYRACUSE-SC

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	Robert Peterson	10/23/14		10/24/14 0900		FC
2						
3	FC	10/25/14 10:00				
4						
5						

Custody Seal #: [ ] Intact [ ] Not intact
Preserved where applicable: [ ]
On Ice: [x] Cooler Temp. 1.9° 1.4° 2.2°

MC34663: Chain of Custody
Page 1 of 4

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

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www.accutest.com

PAGE 2 OF 3

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: MC34663

Client / Reporting Information

Company Name: EA Engineering
Street Address: 6712 Brooklawn Pkwy, Ste 104
City / State / Zip: Syracuse, NY 13211
Project Contact / E-mail: Rob Peterson/rpeterson@eaest.com
Phone # / Fax #: 315-708-6183
Sampler(s) Name(s) / Phone #: Rob Peterson 315-708-6183

Project Information

Project Name: NFARS
Street:
City: Niagara Falls, NY
Project#: 62605401
Client PO#:
Project Manager: Ben Young

Billing Information (If different from Report to)

Company Name: northeastap@eaestr.com
Street Address:
City / State / Zip:
Attention: PO#:

Requested Analysis (see TEST CODE sheet)

VOCs 8260B

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB- Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Bisulfate	LAB USE ONLY
-13	RW5-4		10-23-14	0820	RP	GW	3	3									
-14	MW7-1D			1134			3	3									
-15	MW8-1			0913			3	3									
-16	MW8-10D			0917			3	3									
-17	MW10-1DA			1013			3	3									
-18	MW10-3D			1105			3	3									
-19	MW10-4D			1019			3	3									
-20	MW10-4E			1022			9	9									
-21	MW10-9D			1100			3	3									
-22	MW10-10D			0958			3	3									
-23	PW10-1			1035			3	3									
-24	PW10-2			1122			3	3									

Turnaround Time (Business days)

Approved By (Accutest PM): / Date:

- [x] Std. 10 Business Days
- [ ] Std. 5 Business Days (By Contract only)
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Labilnk

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [x] FULLT1 (Level 3+4) Level 4
- [ ] CT RCP
- [ ] MA MCP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [x] EDD Format ERDIMS
- [x] Other NYSDEC EQUIS

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

Use MW10-4E for MS/MSD

ACCUTEST SYRACUSE,SC

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	Robert Peterson	10/23/14		2		2 FF
3	FF	10/25/14 10:00	3	4		4
5			5	Custody Seal #	Intact / Not Intact	Preserved where applicable / On Ice / Cooler Temp.

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

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www.accutest.com

PAGE 3 OF 3

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: MC34663

Client / Reporting Information

Company Name: EA Engineering
Street Address: 6712 Brooklawn Pkwy. Ste. 104
City / State / Zip: Syracuse, NY 13211
Project Contact / E-mail: Rob Peterson / rpeterson@eaest.com
Phone # / Fax #: 315-708-6183
Sampler(s) Name(s) / Phone #: Rob Peterson 315-708-6183

Project Information

Project Name: NFARS
Street:
City: Niagara Falls, NY
Project#: 62654.01
Client PO#:
Project Manager: Ben Young

Billing Information (If different from Report to)

Company Name: northeastap@eaest.com
Street Address:
City / State / Zip:
Attention: PO#

Requested Analysis (see TEST CODE sheet)

VOCs 8260B

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB- Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Bisulfite	LAB USE ONLY
25	MW13-4D		10-23-14	0758	RP	GW	3	3									X
26	MW13-5D		10-23-14	0754	RP	GW	3	3									X
27	MW5-5DQ				RP	GW	3	3									X
28	MW10-10DQ						3	3									X
29	PDB_BLK102314		10-23-14	1450	RP	DI	3	3									X
30	TB_102314					DI	2	2									X
31	14185-001		10-21-14	1530	RP	GW	3	3									X

Turnaround Time (Business days)

- [x] Std. 10 Business Days
- [ ] Std. 5 Business Days (By Contract only)
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Labiink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [x] FULLT1 (Level 3+4) Level 4
- [ ] CT RCP
- [ ] MA MCP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [x] EDD Format ERPIMS
- [x] Other NYSDEC EQUIS

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

ACCUTEST SYRACUSE-SC

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	Robert Peterson	10/23/14		10/24/14 0905		FX
2						
3	FX	10/25/14 10:00				
4						
5				Custody Seal #	Intact / Not Intact	Preserved where applicable / On Ice / Cooler Temp.

MC34663: Chain of Custody
Page 3 of 4

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC34663 **Client:** EA **Project:** NFARS

Date / Time Received: 10/25/2014 10:00:00 AM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (1.9/1.9); #2: (1.4/1.4); #3: (2.2/2.2);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Thermometer ID:	G1;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	3		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:(508) 481-6200

495 Technology Center West, Bldg One
F: (508) 481-7753

Marlborough, MA 01752
www/accutest.com

MC34663: Chain of Custody
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Internal Sample Tracking Chronicle

EA Engineering

NFARS, Niagara Falls, NY
Project No: 6265401

Job No: MC34663

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC34663-1	Collected: 23-OCT-14 11:50 By: CR MW1-1DA			Received: 25-OCT-14	By: SAP	
MC34663-1	SW846 8260C	01-NOV-14 04:03	AMY			V8260SL
MC34663-2	Collected: 23-OCT-14 14:04 By: CR MW3-3DA			Received: 25-OCT-14	By: SAP	
MC34663-2	SW846 8260C	01-NOV-14 04:29	AMY			V8260SL
MC34663-3	Collected: 23-OCT-14 12:25 By: CR MW3-4DA			Received: 25-OCT-14	By: SAP	
MC34663-3	SW846 8260C	01-NOV-14 04:55	AMY			V8260SL
MC34663-4	Collected: 23-OCT-14 12:23 By: CR PW3-3A			Received: 25-OCT-14	By: SAP	
MC34663-4	SW846 8260C	01-NOV-14 05:22	AMY			V8260SL
MC34663-5	Collected: 23-OCT-14 14:13 By: CR PZ3-6D			Received: 25-OCT-14	By: SAP	
MC34663-5	SW846 8260C	01-NOV-14 05:48	AMY			V8260SL
MC34663-6	Collected: 23-OCT-14 14:40 By: CR PZ3-7D			Received: 25-OCT-14	By: SAP	
MC34663-6	SW846 8260C	01-NOV-14 06:15	AMY			V8260SL
MC34663-7	Collected: 23-OCT-14 14:45 By: CR PZ3-8D			Received: 25-OCT-14	By: SAP	
MC34663-7	SW846 8260C	01-NOV-14 06:41	AMY			V8260SL
MC34663-8	Collected: 23-OCT-14 08:56 By: CR MW5-1DA			Received: 25-OCT-14	By: SAP	
MC34663-8	SW846 8260C	01-NOV-14 07:08	AMY			V8260SL

Internal Sample Tracking Chronicle

EA Engineering

Job No: MC34663

NFARS, Niagara Falls, NY
Project No: 6265401

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC34663-9 MW5-5D	Collected: 23-OCT-14 08:26 By: CR		Received: 25-OCT-14 By: SAP			
MC34663-9	SW846 8260C	01-NOV-14 07:34	AMY			V8260SL
MC34663-9	SW846 8260C	03-NOV-14 13:30	AMY			V8260SL
MC34663-10 MW5-6	Collected: 23-OCT-14 08:34 By: CR		Received: 25-OCT-14 By: SAP			
MC34663-10	SW846 8260C	31-OCT-14 23:37	AMY			V8260SL
MC34663-11 RW5-1	Collected: 23-OCT-14 08:50 By: CR		Received: 25-OCT-14 By: SAP			
MC34663-11	SW846 8260C	01-NOV-14 08:01	AMY			V8260SL
MC34663-11	SW846 8260C	03-NOV-14 13:57	AMY			V8260SL
MC34663-12 RW5-2	Collected: 23-OCT-14 08:43 By: CR		Received: 25-OCT-14 By: SAP			
MC34663-12	SW846 8260C	03-NOV-14 11:44	AMY			V8260SL
MC34663-13 RW5-4	Collected: 23-OCT-14 08:20 By: CR		Received: 25-OCT-14 By: SAP			
MC34663-13	SW846 8260C	02-NOV-14 12:44	AMY			V8260SL
MC34663-14 MW7-1D	Collected: 23-OCT-14 11:34 By: CR		Received: 25-OCT-14 By: SAP			
MC34663-14	SW846 8260C	02-NOV-14 13:11	AMY			V8260SL
MC34663-15 MW8-1	Collected: 23-OCT-14 09:13 By: CR		Received: 25-OCT-14 By: SAP			
MC34663-15	SW846 8260C	02-NOV-14 13:38	AMY			V8260SL

Internal Sample Tracking Chronicle

EA Engineering

Job No: MC34663

NFARS, Niagara Falls, NY
Project No: 6265401

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC34663-16 MW8-10D	Collected: 23-OCT-14 09:17 By: CR		Received: 25-OCT-14 By: SAP			
MC34663-16	SW846 8260C	02-NOV-14 14:04	AMY			V8260SL
MC34663-17 MW10-1DA	Collected: 23-OCT-14 10:13 By: CR		Received: 25-OCT-14 By: SAP			
MC34663-17	SW846 8260C	02-NOV-14 14:30	AMY			V8260SL
MC34663-17	SW846 8260C	03-NOV-14 14:24	AMY			V8260SL
MC34663-18 MW10-3D	Collected: 23-OCT-14 11:05 By: CR		Received: 25-OCT-14 By: SAP			
MC34663-18	SW846 8260C	03-NOV-14 12:10	AMY			V8260SL
MC34663-19 MW10-4D	Collected: 23-OCT-14 10:19 By: CR		Received: 25-OCT-14 By: SAP			
MC34663-19	SW846 8260C	02-NOV-14 15:24	AMY			V8260SL
MC34663-20 MW10-4E	Collected: 23-OCT-14 10:22 By: CR		Received: 25-OCT-14 By: SAP			
MC34663-20	SW846 8260C	02-NOV-14 12:17	AMY			V8260SL
MC34663-21 MW10-9D	Collected: 23-OCT-14 11:00 By: CR		Received: 25-OCT-14 By: SAP			
MC34663-21	SW846 8260C	02-NOV-14 15:50	AMY			V8260SL
MC34663-22 MW10-10D	Collected: 23-OCT-14 09:58 By: CR		Received: 25-OCT-14 By: SAP			
MC34663-22	SW846 8260C	02-NOV-14 16:17	AMY			V8260SL
MC34663-22	SW846 8260C	03-NOV-14 14:51	AMY			V8260SL

Internal Sample Tracking Chronicle

EA Engineering

Job No: MC34663

NFARS, Niagara Falls, NY
Project No: 6265401

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC34663-23	Collected: 23-OCT-14 10:35 By: CR			Received: 25-OCT-14	By:	SAP
PW10-1						
MC34663-23	SW846 8260C	02-NOV-14 16:44	AMY			V8260SL
MC34663-24	Collected: 23-OCT-14 11:22 By: CR			Received: 25-OCT-14	By:	SAP
PW10-2						
MC34663-24	SW846 8260C	03-NOV-14 12:07	JB			V8260SL
MC34663-24	SW846 8260C	03-NOV-14 14:28	JB			V8260SL
MC34663-25	Collected: 23-OCT-14 07:58 By: CR			Received: 25-OCT-14	By:	SAP
MW13-4D						
MC34663-25	SW846 8260C	02-NOV-14 17:10	AMY			V8260SL
MC34663-26	Collected: 23-OCT-14 07:54 By: CR			Received: 25-OCT-14	By:	SAP
MW13-5D						
MC34663-26	SW846 8260C	02-NOV-14 17:36	AMY			V8260SL
MC34663-27	Collected: 23-OCT-14 00:00 By: CR			Received: 25-OCT-14	By:	SAP
MW5-5DQ						
MC34663-27	SW846 8260C	03-NOV-14 10:42	JB			V8260SL
MC34663-27	SW846 8260C	03-NOV-14 13:31	JB			V8260SL
MC34663-28	Collected: 23-OCT-14 00:00 By: CR			Received: 25-OCT-14	By:	SAP
MW10-10DQ						
MC34663-28	SW846 8260C	03-NOV-14 11:10	JB			V8260SL
MC34663-28	SW846 8260C	03-NOV-14 14:00	JB			V8260SL
MC34663-29	Collected: 23-OCT-14 14:50 By: CR			Received: 25-OCT-14	By:	SAP
PDB_BLK102314						
MC34663-29	SW846 8260C	02-NOV-14 11:50	AMY			V8260SL

Internal Sample Tracking Chronicle

EA Engineering

Job No: MC34663

NFARS, Niagara Falls, NY
Project No: 6265401

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC34663-30	Collected: 23-OCT-14 00:00 By: CR			Received: 25-OCT-14	By: SAP	
TB_102314						
MC34663-30	SW846 8260C	02-NOV-14 11:24	AMY			V8260SL
MC34663-31	Collected: 21-OCT-14 15:30 By: CR			Received: 25-OCT-14	By: SAP	
14185-001						
MC34663-31	SW846 8260C	03-NOV-14 11:39	JB			V8260SL

Accutest Internal Chain of Custody

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY
Received: 10/25/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC34663-1.1	VOC Ref #3	Amy Min Yang	10/31/14 17:13	Retrieve from Storage
MC34663-1.1	Amy Min Yang	GCMSV	10/31/14 17:13	Load on Instrument
MC34663-2.1	VOC Ref #3	Amy Min Yang	10/31/14 17:13	Retrieve from Storage
MC34663-2.1	Amy Min Yang	GCMSV	10/31/14 17:13	Load on Instrument
MC34663-3.1	VOC Ref #3	Amy Min Yang	10/31/14 17:13	Retrieve from Storage
MC34663-3.1	Amy Min Yang	GCMSV	10/31/14 17:13	Load on Instrument
MC34663-4.1	VOC Ref #3	Amy Min Yang	10/31/14 17:13	Retrieve from Storage
MC34663-4.1	Amy Min Yang	GCMSV	10/31/14 17:13	Load on Instrument
MC34663-5.1	VOC Ref #3	Amy Min Yang	10/31/14 17:13	Retrieve from Storage
MC34663-5.1	Amy Min Yang	GCMSV	10/31/14 17:13	Load on Instrument
MC34663-6.1	VOC Ref #3	Amy Min Yang	10/31/14 17:13	Retrieve from Storage
MC34663-6.1	Amy Min Yang	GCMSV	10/31/14 17:13	Load on Instrument
MC34663-7.1	VOC Ref #3	Amy Min Yang	10/31/14 17:13	Retrieve from Storage
MC34663-7.1	Amy Min Yang	GCMSV	10/31/14 17:13	Load on Instrument
MC34663-8.1	VOC Ref #3	Amy Min Yang	10/31/14 17:13	Retrieve from Storage
MC34663-8.1	Amy Min Yang	GCMSV	10/31/14 17:13	Load on Instrument
MC34663-9.1	VOC Ref #3	Amy Min Yang	10/31/14 17:13	Retrieve from Storage
MC34663-9.1	Amy Min Yang	GCMSV	10/31/14 17:13	Load on Instrument
MC34663-9.2	VOC Ref #3	Amy Min Yang	11/03/14 10:42	Retrieve from Storage
MC34663-9.2	Amy Min Yang	GCMSV	11/03/14 10:43	Load on Instrument
MC34663-10.1	VOC Ref #3	Amy Min Yang	10/31/14 17:13	Retrieve from Storage
MC34663-10.1	Amy Min Yang	GCMSV	10/31/14 17:13	Load on Instrument
MC34663-10.5	VOC Ref #3	Amy Min Yang	10/31/14 17:13	Retrieve from Storage
MC34663-10.5	Amy Min Yang	GCMSV	10/31/14 17:13	Load on Instrument
MC34663-10.6	VOC Ref #3	Amy Min Yang	10/31/14 17:13	Retrieve from Storage
MC34663-10.6	Amy Min Yang	GCMSV	10/31/14 17:13	Load on Instrument
MC34663-10.9	VOC Ref #3	Amy Min Yang	10/31/14 17:13	Retrieve from Storage
MC34663-10.9	Amy Min Yang	GCMSV	10/31/14 17:13	Load on Instrument
MC34663-11.1	VOC Ref #3	Amy Min Yang	10/31/14 17:13	Retrieve from Storage
MC34663-11.1	Amy Min Yang	GCMSV	10/31/14 17:13	Load on Instrument

Accutest Internal Chain of Custody

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY
Received: 10/25/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC34663-11.2	VOC Ref #3	Amy Min Yang	11/03/14 10:42	Retrieve from Storage
MC34663-11.2	Amy Min Yang	GCMSV	11/03/14 10:43	Load on Instrument
MC34663-12.1	VOC Ref #3	Amy Min Yang	10/31/14 17:13	Retrieve from Storage
MC34663-12.1	Amy Min Yang	GCMSV	10/31/14 17:13	Load on Instrument
MC34663-12.3	VOC Ref #3	Amy Min Yang	11/03/14 10:42	Retrieve from Storage
MC34663-12.3	Amy Min Yang	GCMSV	11/03/14 10:43	Load on Instrument
MC34663-13.1	VOC Ref #3	Amy Min Yang	11/02/14 10:29	Retrieve from Storage
MC34663-13.1	Amy Min Yang	GCMSV	11/02/14 10:29	Load on Instrument
MC34663-14.1	VOC Ref #3	Amy Min Yang	11/02/14 10:29	Retrieve from Storage
MC34663-14.1	Amy Min Yang	GCMSV	11/02/14 10:29	Load on Instrument
MC34663-15.1	VOC Ref #3	Amy Min Yang	11/02/14 10:29	Retrieve from Storage
MC34663-15.1	Amy Min Yang	GCMSV	11/02/14 10:29	Load on Instrument
MC34663-16.1	VOC Ref #3	Amy Min Yang	11/02/14 10:29	Retrieve from Storage
MC34663-16.1	Amy Min Yang	GCMSV	11/02/14 10:29	Load on Instrument
MC34663-17.1	VOC Ref #3	Amy Min Yang	11/02/14 10:29	Retrieve from Storage
MC34663-17.1	Amy Min Yang	GCMSV	11/02/14 10:29	Load on Instrument
MC34663-17.2	VOC Ref #3	Amy Min Yang	11/03/14 10:42	Retrieve from Storage
MC34663-17.2	Amy Min Yang	GCMSV	11/03/14 10:43	Load on Instrument
MC34663-18.1	VOC Ref #3	Amy Min Yang	11/02/14 10:29	Retrieve from Storage
MC34663-18.1	Amy Min Yang	GCMSV	11/02/14 10:29	Load on Instrument
MC34663-18.2	VOC Ref #3	Amy Min Yang	11/03/14 10:42	Retrieve from Storage
MC34663-18.2	Amy Min Yang	GCMSV	11/03/14 10:43	Load on Instrument
MC34663-19.1	VOC Ref #3	Amy Min Yang	11/02/14 10:29	Retrieve from Storage
MC34663-19.1	Amy Min Yang	GCMSV	11/02/14 10:29	Load on Instrument
MC34663-20.1	VOC Ref #3	Amy Min Yang	11/02/14 10:29	Retrieve from Storage
MC34663-20.1	Amy Min Yang	GCMSV	11/02/14 10:29	Load on Instrument
MC34663-20.4	VOC Ref #3	Amy Min Yang	11/02/14 10:29	Retrieve from Storage
MC34663-20.4	Amy Min Yang	GCMSV	11/02/14 10:29	Load on Instrument
MC34663-20.6	VOC Ref #3	Amy Min Yang	11/02/14 10:29	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY
Received: 10/25/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC34663-20.6	Amy Min Yang	GCMSV	11/02/14 10:29	Load on Instrument
MC34663-20.7	VOC Ref #3	Amy Min Yang	11/02/14 10:29	Retrieve from Storage
MC34663-20.7	Amy Min Yang	GCMSV	11/02/14 10:29	Load on Instrument
MC34663-21.1	VOC Ref #3	Amy Min Yang	11/02/14 10:29	Retrieve from Storage
MC34663-21.1	Amy Min Yang	GCMSV	11/02/14 10:29	Load on Instrument
MC34663-22.1	VOC Ref #3	Amy Min Yang	11/02/14 10:29	Retrieve from Storage
MC34663-22.1	Amy Min Yang	GCMSV	11/02/14 10:29	Load on Instrument
MC34663-22.3	VOC Ref #3	Amy Min Yang	11/03/14 10:42	Retrieve from Storage
MC34663-22.3	Amy Min Yang	GCMSV	11/03/14 10:43	Load on Instrument
MC34663-23.1	VOC Ref #3	Amy Min Yang	11/02/14 10:29	Retrieve from Storage
MC34663-23.1	Amy Min Yang	GCMSV	11/02/14 10:29	Load on Instrument
MC34663-24.1	VOC Ref #3	Amy Min Yang	11/02/14 10:29	Retrieve from Storage
MC34663-24.1	Amy Min Yang	GCMSV	11/02/14 10:29	Load on Instrument
MC34663-25.1	VOC Ref #3	Amy Min Yang	11/02/14 10:29	Retrieve from Storage
MC34663-25.1	Amy Min Yang	GCMSV	11/02/14 10:29	Load on Instrument
MC34663-26.1	VOC Ref #3	Amy Min Yang	11/02/14 10:29	Retrieve from Storage
MC34663-26.1	Amy Min Yang	GCMSV	11/02/14 10:29	Load on Instrument
MC34663-27.1	VOC Ref #3	Amy Min Yang	11/02/14 10:29	Retrieve from Storage
MC34663-27.1	Amy Min Yang	GCMSV	11/02/14 10:29	Load on Instrument
MC34663-28.2	VOC Ref #3	Amy Min Yang	11/02/14 10:29	Retrieve from Storage
MC34663-28.2	Amy Min Yang	GCMSV	11/02/14 10:29	Load on Instrument
MC34663-29.1	VOC Ref #3	Amy Min Yang	11/02/14 10:29	Retrieve from Storage
MC34663-29.1	Amy Min Yang	GCMSV	11/02/14 10:29	Load on Instrument
MC34663-30.1	VOC Ref #3	Amy Min Yang	11/02/14 10:29	Retrieve from Storage
MC34663-30.1	Amy Min Yang	GCMSV	11/02/14 10:29	Load on Instrument
MC34663-31.1	VOC Ref #3	Amy Min Yang	11/02/14 10:29	Retrieve from Storage
MC34663-31.1	Amy Min Yang	GCMSV	11/02/14 10:29	Load on Instrument

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GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1313-MB	V36241.D	1	10/31/14	AMY	n/a	n/a	MSV1313

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC34663-1, MC34663-2, MC34663-3, MC34663-4, MC34663-5, MC34663-6, MC34663-7, MC34663-8, MC34663-9, MC34663-10, MC34663-11

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	

Method Blank Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1313-MB	V36241.D	1	10/31/14	AMY	n/a	n/a	MSV1313

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC34663-1, MC34663-2, MC34663-3, MC34663-4, MC34663-5, MC34663-6, MC34663-7, MC34663-8, MC34663-9, MC34663-10, MC34663-11

CAS No.	Compound	Result	RL	MDL	Units	Q
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	109%	70-130%
2037-26-5	Toluene-D8	101%	70-130%
460-00-4	4-Bromofluorobenzene	102%	70-130%

Method Blank Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1314-MB	V36272.D	1	11/02/14	AMY	n/a	n/a	MSV1314

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC34663-13, MC34663-14, MC34663-15, MC34663-16, MC34663-17, MC34663-19, MC34663-20, MC34663-21, MC34663-22, MC34663-23, MC34663-25, MC34663-26, MC34663-29, MC34663-30

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	

Method Blank Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1314-MB	V36272.D	1	11/02/14	AMY	n/a	n/a	MSV1314

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC34663-13, MC34663-14, MC34663-15, MC34663-16, MC34663-17, MC34663-19, MC34663-20, MC34663-21, MC34663-22, MC34663-23, MC34663-25, MC34663-26, MC34663-29, MC34663-30

CAS No.	Compound	Result	RL	MDL	Units	Q
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	111%	70-130%
2037-26-5	Toluene-D8	96%	70-130%
460-00-4	4-Bromofluorobenzene	98%	70-130%

Method Blank Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3391-MB	N91776.D	1	11/03/14	JB	n/a	n/a	MSN3391

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC34663-24, MC34663-27, MC34663-28, MC34663-31

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	

Method Blank Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3391-MB	N91776.D	1	11/03/14	JB	n/a	n/a	MSN3391

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC34663-24, MC34663-27, MC34663-28, MC34663-31

CAS No.	Compound	Result	RL	MDL	Units	Q
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	94%	70-130%
2037-26-5	Toluene-D8	102%	70-130%
460-00-4	4-Bromofluorobenzene	106%	70-130%

Method Blank Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1314-MB1	V36295.D	1	11/03/14	AMY	n/a	n/a	MSV1314

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC34663-9, MC34663-11, MC34663-12, MC34663-17, MC34663-18, MC34663-22

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.47	ug/l	
75-25-2	Bromoform	ND	1.0	0.30	ug/l	
74-83-9	Bromomethane	ND	2.0	0.77	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.23	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.25	ug/l	
75-00-3	Chloroethane	ND	2.0	0.37	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
74-87-3	Chloromethane	ND	2.0	0.59	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.71	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.34	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.16	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.47	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.38	ug/l	
123-91-1	1,4-Dioxane	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
74-88-4	Iodomethane	ND	5.0	0.66	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	

Method Blank Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1314-MB1	V36295.D	1	11/03/14	AMY	n/a	n/a	MSV1314

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC34663-9, MC34663-11, MC34663-12, MC34663-17, MC34663-18, MC34663-22

CAS No.	Compound	Result	RL	MDL	Units	Q
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.39	ug/l	
100-42-5	Styrene	ND	5.0	0.29	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.19	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.30	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.40	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	108%	70-130%
2037-26-5	Toluene-D8	100%	70-130%
460-00-4	4-Bromofluorobenzene	101%	70-130%

Blank Spike Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1313-BS	V36238.D	1	10/31/14	AMY	n/a	n/a	MSV1313

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC34663-1, MC34663-2, MC34663-3, MC34663-4, MC34663-5, MC34663-6, MC34663-7, MC34663-8, MC34663-9, MC34663-10, MC34663-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	42.2	84	70-130
71-43-2	Benzene	50	48.5	97	70-130
74-97-5	Bromochloromethane	50	47.7	95	70-130
75-27-4	Bromodichloromethane	50	54.1	108	70-130
75-25-2	Bromoform	50	48.8	98	70-130
74-83-9	Bromomethane	50	41.4	83	70-130
78-93-3	2-Butanone (MEK)	50	43.4	87	70-130
75-15-0	Carbon disulfide	50	45.6	91	70-130
56-23-5	Carbon tetrachloride	50	50.7	101	70-130
108-90-7	Chlorobenzene	50	47.4	95	70-130
75-00-3	Chloroethane	50	47.3	95	70-130
67-66-3	Chloroform	50	47.8	96	70-130
74-87-3	Chloromethane	50	44.7	89	70-130
110-82-7	Cyclohexane	50	51.7	103	71-145
96-12-8	1,2-Dibromo-3-chloropropane	50	45.9	92	70-130
124-48-1	Dibromochloromethane	50	51.1	102	70-130
106-93-4	1,2-Dibromoethane	50	50.0	100	70-130
95-50-1	1,2-Dichlorobenzene	50	49.1	98	70-130
541-73-1	1,3-Dichlorobenzene	50	49.3	99	70-130
106-46-7	1,4-Dichlorobenzene	50	46.7	93	70-130
75-71-8	Dichlorodifluoromethane	50	42.9	86	70-130
75-34-3	1,1-Dichloroethane	50	48.8	98	70-130
107-06-2	1,2-Dichloroethane	50	48.9	98	70-130
75-35-4	1,1-Dichloroethene	50	48.1	96	70-130
156-59-2	cis-1,2-Dichloroethene	50	47.4	95	70-130
156-60-5	trans-1,2-Dichloroethene	50	49.7	99	70-130
78-87-5	1,2-Dichloropropane	50	54.8	110	70-130
10061-01-5	cis-1,3-Dichloropropene	50	61.9	124	70-130
10061-02-6	trans-1,3-Dichloropropene	50	63.5	127	70-130
123-91-1	1,4-Dioxane	125	262	210* [a]	70-130
100-41-4	Ethylbenzene	50	49.1	98	70-130
76-13-1	Freon 113	50	46.7	93	70-130
591-78-6	2-Hexanone	50	40.0	80	70-130
74-88-4	Iodomethane	50	40.9	82	70-130
98-82-8	Isopropylbenzene	50	54.6	109	70-130
79-20-9	Methyl Acetate	50	60.6	121	40-137

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1313-BS	V36238.D	1	10/31/14	AMY	n/a	n/a	MSV1313

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC34663-1, MC34663-2, MC34663-3, MC34663-4, MC34663-5, MC34663-6, MC34663-7, MC34663-8, MC34663-9, MC34663-10, MC34663-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-87-2	Methylcyclohexane	50	51.2	102	74-143
1634-04-4	Methyl Tert Butyl Ether	50	46.3	93	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	50.1	100	70-130
75-09-2	Methylene chloride	50	46.6	93	70-130
100-42-5	Styrene	50	51.2	102	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	53.2	106	70-130
127-18-4	Tetrachloroethene	50	44.1	88	70-130
108-88-3	Toluene	50	49.9	100	70-130
87-61-6	1,2,3-Trichlorobenzene	50	58.3	117	70-130
120-82-1	1,2,4-Trichlorobenzene	50	54.8	110	70-130
71-55-6	1,1,1-Trichloroethane	50	49.3	99	70-130
79-00-5	1,1,2-Trichloroethane	50	56.7	113	70-130
79-01-6	Trichloroethene	50	47.5	95	70-130
75-69-4	Trichlorofluoromethane	50	38.0	76	70-130
75-01-4	Vinyl chloride	50	43.6	87	70-130
1330-20-7	Xylene (total)	150	145	97	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	70-130%
2037-26-5	Toluene-D8	106%	70-130%
460-00-4	4-Bromofluorobenzene	107%	70-130%

(a) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1314-BS	V36268.D	1	11/02/14	AMY	n/a	n/a	MSV1314

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC34663-13, MC34663-14, MC34663-15, MC34663-16, MC34663-17, MC34663-19, MC34663-20, MC34663-21, MC34663-22, MC34663-23, MC34663-25, MC34663-26, MC34663-29, MC34663-30

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	43.0	86	70-130
71-43-2	Benzene	50	53.1	106	70-130
74-97-5	Bromochloromethane	50	52.0	104	70-130
75-27-4	Bromodichloromethane	50	62.4	125	70-130
75-25-2	Bromoform	50	59.9	120	70-130
74-83-9	Bromomethane	50	43.1	86	70-130
78-93-3	2-Butanone (MEK)	50	48.4	97	70-130
75-15-0	Carbon disulfide	50	39.2	78	70-130
56-23-5	Carbon tetrachloride	50	57.8	116	70-130
108-90-7	Chlorobenzene	50	53.9	108	70-130
75-00-3	Chloroethane	50	48.7	97	70-130
67-66-3	Chloroform	50	54.1	108	70-130
74-87-3	Chloromethane	50	46.1	92	70-130
110-82-7	Cyclohexane	50	48.3	97	71-145
96-12-8	1,2-Dibromo-3-chloropropane	50	54.3	109	70-130
124-48-1	Dibromochloromethane	50	63.1	126	70-130
106-93-4	1,2-Dibromoethane	50	54.9	110	70-130
95-50-1	1,2-Dichlorobenzene	50	54.0	108	70-130
541-73-1	1,3-Dichlorobenzene	50	54.7	109	70-130
106-46-7	1,4-Dichlorobenzene	50	52.5	105	70-130
75-71-8	Dichlorodifluoromethane	50	43.7	87	70-130
75-34-3	1,1-Dichloroethane	50	52.7	105	70-130
107-06-2	1,2-Dichloroethane	50	55.2	110	70-130
75-35-4	1,1-Dichloroethene	50	42.7	85	70-130
156-59-2	cis-1,2-Dichloroethene	50	51.9	104	70-130
156-60-5	trans-1,2-Dichloroethene	50	50.6	101	70-130
78-87-5	1,2-Dichloropropane	50	59.5	119	70-130
10061-01-5	cis-1,3-Dichloropropene	50	64.8	130	70-130
10061-02-6	trans-1,3-Dichloropropene	50	64.6	129	70-130
123-91-1	1,4-Dioxane	125	226	181* [a]	70-130
100-41-4	Ethylbenzene	50	57.2	114	70-130
76-13-1	Freon 113	50	41.1	82	70-130
591-78-6	2-Hexanone	50	47.4	95	70-130
74-88-4	Iodomethane	50	36.3	73	70-130
98-82-8	Isopropylbenzene	50	62.1	124	70-130
79-20-9	Methyl Acetate	50	60.3	121	40-137

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1314-BS	V36268.D	1	11/02/14	AMY	n/a	n/a	MSV1314

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC34663-13, MC34663-14, MC34663-15, MC34663-16, MC34663-17, MC34663-19, MC34663-20, MC34663-21, MC34663-22, MC34663-23, MC34663-25, MC34663-26, MC34663-29, MC34663-30

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-87-2	Methylcyclohexane	50	51.5	103	74-143
1634-04-4	Methyl Tert Butyl Ether	50	45.7	91	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	51.8	104	70-130
75-09-2	Methylene chloride	50	45.3	91	70-130
100-42-5	Styrene	50	57.6	115	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	58.1	116	70-130
127-18-4	Tetrachloroethene	50	52.9	106	70-130
108-88-3	Toluene	50	51.9	104	70-130
87-61-6	1,2,3-Trichlorobenzene	50	64.4	129	70-130
120-82-1	1,2,4-Trichlorobenzene	50	62.0	124	70-130
71-55-6	1,1,1-Trichloroethane	50	54.3	109	70-130
79-00-5	1,1,2-Trichloroethane	50	56.3	113	70-130
79-01-6	Trichloroethene	50	52.8	106	70-130
75-69-4	Trichlorofluoromethane	50	40.7	81	70-130
75-01-4	Vinyl chloride	50	45.4	91	70-130
1330-20-7	Xylene (total)	150	168	112	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	70-130%
2037-26-5	Toluene-D8	100%	70-130%
460-00-4	4-Bromofluorobenzene	101%	70-130%

(a) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3391-BS	N91773.D	1	11/03/14	JB	n/a	n/a	MSN3391

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC34663-24, MC34663-27, MC34663-28, MC34663-31

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	51.1	102	70-130
71-43-2	Benzene	50	50.4	101	70-130
74-97-5	Bromochloromethane	50	57.8	116	70-130
75-27-4	Bromodichloromethane	50	46.5	93	70-130
75-25-2	Bromoform	50	46.6	93	70-130
74-83-9	Bromomethane	50	57.3	115	70-130
78-93-3	2-Butanone (MEK)	50	69.3	139* [a]	70-130
75-15-0	Carbon disulfide	50	68.5	137* [b]	70-130
56-23-5	Carbon tetrachloride	50	45.1	90	70-130
108-90-7	Chlorobenzene	50	49.5	99	70-130
75-00-3	Chloroethane	50	65.1	130	70-130
67-66-3	Chloroform	50	46.9	94	70-130
74-87-3	Chloromethane	50	50.1	100	70-130
110-82-7	Cyclohexane	50	59.7	119	71-145
96-12-8	1,2-Dibromo-3-chloropropane	50	46.8	94	70-130
124-48-1	Dibromochloromethane	50	49.6	99	70-130
106-93-4	1,2-Dibromoethane	50	51.1	102	70-130
95-50-1	1,2-Dichlorobenzene	50	52.9	106	70-130
541-73-1	1,3-Dichlorobenzene	50	52.6	105	70-130
106-46-7	1,4-Dichlorobenzene	50	57.4	115	70-130
75-71-8	Dichlorodifluoromethane	50	42.6	85	70-130
75-34-3	1,1-Dichloroethane	50	52.0	104	70-130
107-06-2	1,2-Dichloroethane	50	38.0	76	70-130
75-35-4	1,1-Dichloroethene	50	66.7	133* [a]	70-130
156-59-2	cis-1,2-Dichloroethene	50	55.2	110	70-130
156-60-5	trans-1,2-Dichloroethene	50	58.4	117	70-130
78-87-5	1,2-Dichloropropane	50	55.9	112	70-130
10061-01-5	cis-1,3-Dichloropropene	50	56.2	112	70-130
10061-02-6	trans-1,3-Dichloropropene	50	56.1	112	70-130
123-91-1	1,4-Dioxane	125	134	107	70-130
100-41-4	Ethylbenzene	50	50.3	101	70-130
76-13-1	Freon 113	50	64.4	129	70-130
591-78-6	2-Hexanone	50	44.8	90	70-130
74-88-4	Iodomethane	50	61.5	123	70-130
98-82-8	Isopropylbenzene	50	55.9	112	70-130
79-20-9	Methyl Acetate	50	58.2	116	40-137

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3391-BS	N91773.D	1	11/03/14	JB	n/a	n/a	MSN3391

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC34663-24, MC34663-27, MC34663-28, MC34663-31

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-87-2	Methylcyclohexane	50	65.5	131	74-143
1634-04-4	Methyl Tert Butyl Ether	50	46.8	94	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	41.6	83	70-130
75-09-2	Methylene chloride	50	57.3	115	70-130
100-42-5	Styrene	50	56.7	113	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	61.8	124	70-130
127-18-4	Tetrachloroethene	50	48.4	97	70-130
108-88-3	Toluene	50	51.5	103	70-130
87-61-6	1,2,3-Trichlorobenzene	50	38.2	76	70-130
120-82-1	1,2,4-Trichlorobenzene	50	48.5	97	70-130
71-55-6	1,1,1-Trichloroethane	50	52.8	106	70-130
79-00-5	1,1,2-Trichloroethane	50	49.2	98	70-130
79-01-6	Trichloroethene	50	45.3	91	70-130
75-69-4	Trichlorofluoromethane	50	43.3	87	70-130
75-01-4	Vinyl chloride	50	50.1	100	70-130
1330-20-7	Xylene (total)	150	151	101	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	70-130%
2037-26-5	Toluene-D8	104%	70-130%
460-00-4	4-Bromofluorobenzene	98%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.
(b) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1314-BS1	V36292.D	1	11/03/14	AMY	n/a	n/a	MSV1314

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC34663-9, MC34663-11, MC34663-12, MC34663-17, MC34663-18, MC34663-22

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	45.1	90	70-130
71-43-2	Benzene	50	49.7	99	70-130
74-97-5	Bromochloromethane	50	48.8	98	70-130
75-27-4	Bromodichloromethane	50	55.1	110	70-130
75-25-2	Bromoform	50	52.7	105	70-130
74-83-9	Bromomethane	50	38.0	76	70-130
78-93-3	2-Butanone (MEK)	50	49.9	100	70-130
75-15-0	Carbon disulfide	50	51.8	104	70-130
56-23-5	Carbon tetrachloride	50	52.2	104	70-130
108-90-7	Chlorobenzene	50	47.7	95	70-130
75-00-3	Chloroethane	50	42.2	84	70-130
67-66-3	Chloroform	50	48.5	97	70-130
74-87-3	Chloromethane	50	41.3	83	70-130
110-82-7	Cyclohexane	50	49.5	99	71-145
96-12-8	1,2-Dibromo-3-chloropropane	50	46.2	92	70-130
124-48-1	Dibromochloromethane	50	54.7	109	70-130
106-93-4	1,2-Dibromoethane	50	50.8	102	70-130
95-50-1	1,2-Dichlorobenzene	50	47.9	96	70-130
541-73-1	1,3-Dichlorobenzene	50	48.5	97	70-130
106-46-7	1,4-Dichlorobenzene	50	46.3	93	70-130
75-71-8	Dichlorodifluoromethane	50	37.7	75	70-130
75-34-3	1,1-Dichloroethane	50	49.5	99	70-130
107-06-2	1,2-Dichloroethane	50	50.7	101	70-130
75-35-4	1,1-Dichloroethene	50	48.8	98	70-130
156-59-2	cis-1,2-Dichloroethene	50	48.9	98	70-130
156-60-5	trans-1,2-Dichloroethene	50	50.1	100	70-130
78-87-5	1,2-Dichloropropane	50	53.3	107	70-130
10061-01-5	cis-1,3-Dichloropropene	50	58.7	117	70-130
10061-02-6	trans-1,3-Dichloropropene	50	59.0	118	70-130
123-91-1	1,4-Dioxane	125	317	254* [a]	70-130
100-41-4	Ethylbenzene	50	50.6	101	70-130
76-13-1	Freon 113	50	44.8	90	70-130
591-78-6	2-Hexanone	50	47.0	94	70-130
74-88-4	Iodomethane	50	42.6	85	70-130
98-82-8	Isopropylbenzene	50	54.9	110	70-130
79-20-9	Methyl Acetate	50	61.1	122	40-137

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1314-BS1	V36292.D	1	11/03/14	AMY	n/a	n/a	MSV1314

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC34663-9, MC34663-11, MC34663-12, MC34663-17, MC34663-18, MC34663-22

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-87-2	Methylcyclohexane	50	48.2	96	74-143
1634-04-4	Methyl Tert Butyl Ether	50	43.7	87	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	47.6	95	70-130
75-09-2	Methylene chloride	50	44.9	90	70-130
100-42-5	Styrene	50	51.0	102	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	51.0	102	70-130
127-18-4	Tetrachloroethene	50	47.2	94	70-130
108-88-3	Toluene	50	47.4	95	70-130
87-61-6	1,2,3-Trichlorobenzene	50	54.5	109	70-130
120-82-1	1,2,4-Trichlorobenzene	50	52.2	104	70-130
71-55-6	1,1,1-Trichloroethane	50	49.9	100	70-130
79-00-5	1,1,2-Trichloroethane	50	51.4	103	70-130
79-01-6	Trichloroethene	50	48.1	96	70-130
75-69-4	Trichlorofluoromethane	50	35.5	71	70-130
75-01-4	Vinyl chloride	50	39.8	80	70-130
1330-20-7	Xylene (total)	150	149	99	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	70-130%
2037-26-5	Toluene-D8	101%	70-130%
460-00-4	4-Bromofluorobenzene	102%	70-130%

(a) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC34663-10MS	V36244.D	1	11/01/14	AMY	n/a	n/a	MSV1313
MC34663-10MSD	V36245.D	1	11/01/14	AMY	n/a	n/a	MSV1313
MC34663-10	V36243.D	1	10/31/14	AMY	n/a	n/a	MSV1313

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC34663-1, MC34663-2, MC34663-3, MC34663-4, MC34663-5, MC34663-6, MC34663-7, MC34663-8, MC34663-9, MC34663-10, MC34663-11

CAS No.	Compound	MC34663-10 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		50	34.1	68* [a]	50	16.4	33* [a]	70* [b]	70-130/30
71-43-2	Benzene	ND		50	51.9	104	50	52.2	104	1	70-130/30
74-97-5	Bromochloromethane	ND		50	51.1	102	50	51.2	102	0	70-130/30
75-27-4	Bromodichloromethane	ND		50	58.9	118	50	58.5	117	1	70-130/30
75-25-2	Bromoform	ND		50	51.5	103	50	52.7	105	2	70-130/30
74-83-9	Bromomethane	ND		50	43.7	87	50	44.0	88	1	70-130/30
78-93-3	2-Butanone (MEK)	ND		50	38.0	76	50	38.5	77	1	70-130/30
75-15-0	Carbon disulfide	ND		50	49.5	99	50	49.5	99	0	70-130/30
56-23-5	Carbon tetrachloride	ND		50	57.2	114	50	57.0	114	0	70-130/30
108-90-7	Chlorobenzene	ND		50	51.2	102	50	50.1	100	2	70-130/30
75-00-3	Chloroethane	6.2		50	53.7	95	50	56.0	100	4	70-130/30
67-66-3	Chloroform	ND		50	51.4	103	50	51.0	102	1	70-130/30
74-87-3	Chloromethane	ND		50	46.9	94	50	48.0	96	2	70-130/30
110-82-7	Cyclohexane	ND		50	55.5	111	50	56.8	114	2	60-160/30
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	47.6	95	50	51.0	102	7	70-130/30
124-48-1	Dibromochloromethane	ND		50	56.1	112	50	55.8	112	1	70-130/30
106-93-4	1,2-Dibromoethane	ND		50	52.5	105	50	52.9	106	1	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		50	51.5	103	50	51.9	104	1	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		50	52.3	105	50	52.0	104	1	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		50	49.9	100	50	49.7	99	0	70-130/30
75-71-8	Dichlorodifluoromethane	ND		50	43.9	88	50	44.7	89	2	70-130/30
75-34-3	1,1-Dichloroethane	ND		50	52.4	105	50	53.2	106	2	70-130/30
107-06-2	1,2-Dichloroethane	ND		50	52.5	105	50	52.2	104	1	70-130/30
75-35-4	1,1-Dichloroethene	ND		50	50.6	101	50	51.5	103	2	70-130/30
156-59-2	cis-1,2-Dichloroethene	15.7		50	64.0	97	50	64.7	98	1	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		50	53.4	107	50	53.7	107	1	70-130/30
78-87-5	1,2-Dichloropropane	ND		50	58.3	117	50	58.7	117	1	70-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		50	61.6	123	50	62.9	126	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		50	63.1	126	50	65.4	131* [a]	4	70-130/30
123-91-1	1,4-Dioxane	ND		125	113	90	125	175	140* [c]	43* [b]	70-130/30
100-41-4	Ethylbenzene	ND		50	54.4	109	50	52.8	106	3	70-130/30
76-13-1	Freon 113	ND		50	48.6	97	50	49.5	99	2	70-130/30
591-78-6	2-Hexanone	ND		50	30.7	61* [a]	50	31.8	64* [a]	4	70-130/30
74-88-4	Iodomethane	ND		50	43.7	87	50	44.1	88	1	70-130/30
98-82-8	Isopropylbenzene	ND		50	60.2	120	50	57.9	116	4	70-130/30
79-20-9	Methyl Acetate	ND		50	55.5	111	50	57.9	116	4	34-145/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC34663-10MS	V36244.D	1	11/01/14	AMY	n/a	n/a	MSV1313
MC34663-10MSD	V36245.D	1	11/01/14	AMY	n/a	n/a	MSV1313
MC34663-10	V36243.D	1	10/31/14	AMY	n/a	n/a	MSV1313

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC34663-1, MC34663-2, MC34663-3, MC34663-4, MC34663-5, MC34663-6, MC34663-7, MC34663-8, MC34663-9, MC34663-10, MC34663-11

CAS No.	Compound	MC34663-10 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-87-2	Methylcyclohexane	ND		50	55.0	110	50	56.3	113	2	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		50	46.0	92	50	49.6	99	8	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	49.6	99	50	52.5	105	6	70-130/30
75-09-2	Methylene chloride	ND		50	48.5	97	50	49.1	98	1	70-130/30
100-42-5	Styrene	ND		50	54.3	109	50	54.4	109	0	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	57.4	115	50	58.0	116	1	70-130/30
127-18-4	Tetrachloroethene	ND		50	49.6	99	50	47.3	95	5	70-130/30
108-88-3	Toluene	ND		50	53.1	106	50	52.8	106	1	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		50	53.0	106	50	63.2	126	18	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		50	55.0	110	50	59.4	119	8	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		50	54.3	109	50	54.3	109	0	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		50	57.4	115	50	59.4	119	3	70-130/30
79-01-6	Trichloroethene	2.5		50	53.1	101	50	52.4	100	1	70-130/30
75-69-4	Trichlorofluoromethane	ND		50	41.8	84	50	41.1	82	2	70-130/30
75-01-4	Vinyl chloride	2.7		50	48.0	91	50	49.3	93	3	70-130/30
1330-20-7	Xylene (total)	ND		150	160	107	150	155	103	3	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	MC34663-10	Limits
1868-53-7	Dibromofluoromethane	103%	102%	112%	70-130%
2037-26-5	Toluene-D8	106%	105%	98%	70-130%
460-00-4	4-Bromofluorobenzene	102%	103%	99%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) High RPD due to possible matrix interference and/or sample non-homogeneity.
(c) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC34663-27MS	N91781.D	10	11/03/14	JB	n/a	n/a	MSN3391
MC34663-27MSD	N91782.D	10	11/03/14	JB	n/a	n/a	MSN3391
MC34663-27	N91777.D	1	11/03/14	JB	n/a	n/a	MSN3391
MC34663-27	N91783.D	50	11/03/14	JB	n/a	n/a	MSN3391

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC34663-24, MC34663-27, MC34663-28, MC34663-31

CAS No.	Compound	MC34663-27 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	4.7	J	500	252	49* [a]	500	228	45* [a]	10	70-130/30
71-43-2	Benzene	ND		500	510	102	500	509	102	0	70-130/30
74-97-5	Bromochloromethane	ND		500	576	115	500	581	116	1	70-130/30
75-27-4	Bromodichloromethane	ND		500	464	93	500	463	93	0	70-130/30
75-25-2	Bromoform	ND		500	440	88	500	462	92	5	70-130/30
74-83-9	Bromomethane	ND		500	293	59* [a]	500	389	78	28	70-130/30
78-93-3	2-Butanone (MEK)	ND		500	452	90	500	454	91	0	70-130/30
75-15-0	Carbon disulfide	ND		500	762	152* [b]	500	749	150* [b]	2	70-130/30
56-23-5	Carbon tetrachloride	ND		500	457	91	500	452	90	1	70-130/30
108-90-7	Chlorobenzene	ND		500	493	99	500	498	100	1	70-130/30
75-00-3	Chloroethane	ND		500	647	129	500	651	130	1	70-130/30
67-66-3	Chloroform	ND		500	467	93	500	465	93	0	70-130/30
74-87-3	Chloromethane	ND		500	366	73	500	350	70	4	70-130/30
110-82-7	Cyclohexane	ND		500	606	121	500	605	121	0	60-160/30
96-12-8	1,2-Dibromo-3-chloropropane	ND		500	463	93	500	483	97	4	70-130/30
124-48-1	Dibromochloromethane	ND		500	467	93	500	482	96	3	70-130/30
106-93-4	1,2-Dibromoethane	ND		500	500	100	500	520	104	4	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		500	518	104	500	525	105	1	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		500	516	103	500	519	104	1	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		500	569	114	500	570	114	0	70-130/30
75-71-8	Dichlorodifluoromethane	ND		500	446	89	500	443	89	1	70-130/30
75-34-3	1,1-Dichloroethane	ND		500	520	104	500	511	102	2	70-130/30
107-06-2	1,2-Dichloroethane	ND		500	385	77	500	388	78	1	70-130/30
75-35-4	1,1-Dichloroethene	ND		500	698	140* [a]	500	693	139* [a]	1	70-130/30
156-59-2	cis-1,2-Dichloroethene	964 [c]		500	1480	114	500	1450	108	2	70-130/30
156-60-5	trans-1,2-Dichloroethene	33.1		500	594	112	500	587	111	1	70-130/30
78-87-5	1,2-Dichloropropane	ND		500	567	113	500	565	113	0	70-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		500	565	113	500	565	113	0	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		500	552	110	500	560	112	1	70-130/30
123-91-1	1,4-Dioxane	ND		1250	1110	89	1250	1220	98	9	70-130/30
100-41-4	Ethylbenzene	ND		500	491	98	500	491	98	0	70-130/30
76-13-1	Freon 113	ND		500	624	125	500	630	126	1	70-130/30
591-78-6	2-Hexanone	ND		500	268	54* [a]	500	293	59* [a]	9	70-130/30
74-88-4	Iodomethane	ND		500	498	100	500	483	97	3	70-130/30
98-82-8	Isopropylbenzene	ND		500	562	112	500	557	111	1	70-130/30
79-20-9	Methyl Acetate	ND		500	541	108	500	570	114	5	34-145/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC34663-27MS	N91781.D	10	11/03/14	JB	n/a	n/a	MSN3391
MC34663-27MSD	N91782.D	10	11/03/14	JB	n/a	n/a	MSN3391
MC34663-27	N91777.D	1	11/03/14	JB	n/a	n/a	MSN3391
MC34663-27	N91783.D	50	11/03/14	JB	n/a	n/a	MSN3391

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC34663-24, MC34663-27, MC34663-28, MC34663-31

CAS No.	Compound	MC34663-27 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-87-2	Methylcyclohexane	ND		500	677	135* [a]	500	666	133* [a]	2	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		500	459	92	500	483	97	5	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		500	378	76	500	397	79	5	70-130/30
75-09-2	Methylene chloride	ND		500	571	114	500	564	113	1	70-130/30
100-42-5	Styrene	ND		500	554	111	500	554	111	0	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		500	569	114	500	595	119	4	70-130/30
127-18-4	Tetrachloroethene	ND		500	480	96	500	491	98	2	70-130/30
108-88-3	Toluene	0.51	J	500	530	106	500	523	104	1	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		500	422	84	500	484	97	14	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		500	503	101	500	533	107	6	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		500	531	106	500	525	105	1	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		500	481	96	500	486	97	1	70-130/30
79-01-6	Trichloroethene	0.98	J	500	460	92	500	459	92	0	70-130/30
75-69-4	Trichlorofluoromethane	ND		500	435	87	500	428	86	2	70-130/30
75-01-4	Vinyl chloride	1250 [c]		500	1720	-12* [d]	500	1690	-18* [d]	2	70-130/30
1330-20-7	Xylene (total)	ND		1500	1500	100	1500	1490	99	1	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	MC34663-27	MC34663-27	Limits
1868-53-7	Dibromofluoromethane	97%	96%	96%	94%	70-130%
2037-26-5	Toluene-D8	104%	102%	100%	101%	70-130%
460-00-4	4-Bromofluorobenzene	96%	96%	101%	101%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) Outside control limits. Associated samples are non-detect for this compound.
(c) Result is from Run #2.
(d) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC34663-20MS	V36299.D	1	11/03/14	AMY	n/a	n/a	MSV1314
MC34663-20MSD	V36300.D	1	11/03/14	AMY	n/a	n/a	MSV1314
MC34663-20	V36275.D	1	11/02/14	AMY	n/a	n/a	MSV1314

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC34663-9, MC34663-11, MC34663-12, MC34663-13, MC34663-14, MC34663-15, MC34663-16, MC34663-17, MC34663-18, MC34663-19, MC34663-20, MC34663-21, MC34663-22, MC34663-23, MC34663-25, MC34663-26, MC34663-29, MC34663-30

CAS No.	Compound	MC34663-20 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		50	24.2	48* [a]	50	27.7	55* [a]	13	70-130/30
71-43-2	Benzene	ND		50	50.7	101	50	51.3	103	1	70-130/30
74-97-5	Bromochloromethane	ND		50	51.0	102	50	52.3	105	3	70-130/30
75-27-4	Bromodichloromethane	ND		50	61.5	123	50	60.9	122	1	70-130/30
75-25-2	Bromoform	ND		50	58.0	116	50	59.6	119	3	70-130/30
74-83-9	Bromomethane	ND		50	38.6	77	50	42.7	85	10	70-130/30
78-93-3	2-Butanone (MEK)	ND		50	38.3	77	50	38.7	77	1	70-130/30
75-15-0	Carbon disulfide	ND		50	33.8	68* [a]	50	38.0	76	12	70-130/30
56-23-5	Carbon tetrachloride	ND		50	54.6	109	50	56.8	114	4	70-130/30
108-90-7	Chlorobenzene	ND		50	52.1	104	50	51.4	103	1	70-130/30
75-00-3	Chloroethane	ND		50	44.6	89	50	50.7	101	13	70-130/30
67-66-3	Chloroform	ND		50	52.2	104	50	52.8	106	1	70-130/30
74-87-3	Chloromethane	ND		50	41.2	82	50	45.1	90	9	70-130/30
110-82-7	Cyclohexane	ND		50	45.6	91	50	45.7	91	0	60-160/30
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	53.1	106	50	57.1	114	7	70-130/30
124-48-1	Dibromochloromethane	ND		50	61.5	123	50	60.1	120	2	70-130/30
106-93-4	1,2-Dibromoethane	ND		50	54.2	108	50	55.2	110	2	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		50	52.4	105	50	53.2	106	2	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		50	51.9	104	50	52.2	104	1	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		50	49.9	100	50	50.4	101	1	70-130/30
75-71-8	Dichlorodifluoromethane	ND		50	40.4	81	50	37.5	75	7	70-130/30
75-34-3	1,1-Dichloroethane	ND		50	48.8	98	50	51.9	104	6	70-130/30
107-06-2	1,2-Dichloroethane	ND		50	54.1	108	50	54.0	108	0	70-130/30
75-35-4	1,1-Dichloroethene	ND		50	37.4	75	50	42.5	85	13	70-130/30
156-59-2	cis-1,2-Dichloroethene	9.5		50	58.0	97	50	60.3	102	4	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		50	46.6	93	50	50.7	101	8	70-130/30
78-87-5	1,2-Dichloropropane	ND		50	57.5	115	50	58.4	117	2	70-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		50	56.9	114	50	58.7	117	3	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		50	57.1	114	50	60.8	122	6	70-130/30
123-91-1	1,4-Dioxane	ND		125	123	98	125	231	185* [b]	61* [c]	70-130/30
100-41-4	Ethylbenzene	ND		50	54.6	109	50	53.7	107	2	70-130/30
76-13-1	Freon 113	ND		50	36.8	74	50	35.0	70	5	70-130/30
591-78-6	2-Hexanone	ND		50	32.6	65* [a]	50	34.5	69* [a]	6	70-130/30
74-88-4	Iodomethane	ND		50	31.5	63* [a]	50	36.2	72	14	70-130/30
98-82-8	Isopropylbenzene	ND		50	59.5	119	50	55.7	111	7	70-130/30
79-20-9	Methyl Acetate	ND		50	46.6	93	50	50.8	102	9	34-145/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC34663-20MS	V36299.D	1	11/03/14	AMY	n/a	n/a	MSV1314
MC34663-20MSD	V36300.D	1	11/03/14	AMY	n/a	n/a	MSV1314
MC34663-20	V36275.D	1	11/02/14	AMY	n/a	n/a	MSV1314

The QC reported here applies to the following samples: **Method:** SW846 8260C

MC34663-9, MC34663-11, MC34663-12, MC34663-13, MC34663-14, MC34663-15, MC34663-16, MC34663-17, MC34663-18, MC34663-19, MC34663-20, MC34663-21, MC34663-22, MC34663-23, MC34663-25, MC34663-26, MC34663-29, MC34663-30

CAS No.	Compound	MC34663-20 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-87-2	Methylcyclohexane	ND		50	47.4	95	50	45.0	90	5	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		50	42.4	85	50	49.6	99	16	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	49.3	99	50	53.1	106	7	70-130/30
75-09-2	Methylene chloride	ND		50	42.0	84	50	46.9	94	11	70-130/30
100-42-5	Styrene	ND		50	49.6	99	50	49.5	99	0	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	58.2	116	50	57.8	116	1	70-130/30
127-18-4	Tetrachloroethene	ND		50	49.8	100	50	46.8	94	6	70-130/30
108-88-3	Toluene	ND		50	50.5	101	50	51.3	103	2	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		50	55.3	111	50	65.3	131* [a]	17	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		50	55.1	110	50	59.3	119	7	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		50	51.2	102	50	54.2	108	6	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		50	56.4	113	50	58.6	117	4	70-130/30
79-01-6	Trichloroethene	ND		50	50.4	101	50	49.5	99	2	70-130/30
75-69-4	Trichlorofluoromethane	ND		50	38.5	77	50	38.7	77	1	70-130/30
75-01-4	Vinyl chloride	4.8		50	43.8	78	50	48.3	87	10	70-130/30
1330-20-7	Xylene (total)	ND		150	162	108	150	159	106	2	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	MC34663-20	Limits
1868-53-7	Dibromofluoromethane	104%	103%	110%	70-130%
2037-26-5	Toluene-D8	100%	102%	100%	70-130%
460-00-4	4-Bromofluorobenzene	99%	99%	98%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) Outside control limits. Associated samples are non-detect for this compound.
(c) High RPD due to possible matrix interference and/or sample non-homogeneity.

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample:	MSN3345-BFB	**Injection Date:**	09/18/14
Lab File ID:	N90385.D	**Injection Time:**	13:17
Instrument ID:	GCMSN		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	27584	25.4		Pass
75	30.0 - 60.0% of mass 95	54529	50.3		Pass
95	Base peak, 100% relative abundance	108414	100.0		Pass
96	5.0 - 9.0% of mass 95	7647	7.05		Pass
173	Less than 2.0% of mass 174	581	0.54	(0.79) [a]	Pass
174	50.0 - 150.0% of mass 95	73592	67.9		Pass
175	5.0 - 9.0% of mass 174	5197	4.79	(7.06) [a]	Pass
176	95.0 - 101.0% of mass 174	71013	65.5	(96.5) [a]	Pass
177	5.0 - 9.0% of mass 176	4495	4.15	(6.33) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
MSN3345-IC3345	N90391.D	09/18/14	16:07	02:50	Initial cal 0.5
MSN3345-IC3345	N90392.D	09/18/14	16:35	03:18	Initial cal 1
MSN3345-IC3345	N90393.D	09/18/14	17:03	03:46	Initial cal 2
MSN3345-IC3345	N90394.D	09/18/14	17:32	04:15	Initial cal 5
MSN3345-IC3345	N90395.D	09/18/14	18:00	04:43	Initial cal 10
MSN3345-IC3345	N90396.D	09/18/14	18:30	05:13	Initial cal 25
MSN3345-ICC3345	N90397.D	09/18/14	18:59	05:42	Initial cal 50
MSN3345-IC3345	N90398.D	09/18/14	19:27	06:10	Initial cal 100
MSN3345-IC3345	N90399.D	09/18/14	19:55	06:38	Initial cal 200
MSN3345-IC3345	N90400.D	09/18/14	20:23	07:06	Initial cal 400

Instrument Performance Check (BFB)

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample:	MSN3345-BFB	**Injection Date:**	09/19/14
Lab File ID:	N90407.D	**Injection Time:**	13:04
Instrument ID:	GCMSN		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	31008	23.4		Pass
75	30.0 - 60.0% of mass 95	66272	49.9		Pass
95	Base peak, 100% relative abundance	132736	100.0		Pass
96	5.0 - 9.0% of mass 95	8223	6.20		Pass
173	Less than 2.0% of mass 174	660	0.50	(0.72) [a]	Pass
174	50.0 - 150.0% of mass 95	91480	68.9		Pass
175	5.0 - 9.0% of mass 174	5584	4.21	(6.10) [a]	Pass
176	95.0 - 101.0% of mass 174	88016	66.3	(96.2) [a]	Pass
177	5.0 - 9.0% of mass 176	5211	3.93	(5.92) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
MSN3345-ICV3345	N90407.D	09/19/14	13:04	00:00	Initial cal verification 50
MSN3345-BS	N90407.D	09/19/14	13:04	00:00	Blank Spike
MSN3345-CC3345	N90407.D	09/19/14	13:04	00:00	Continuing cal 50
MSN3345-MB	N90410.D	09/19/14	14:28	01:24	Method Blank
ZZZZZZ	N90411.D	09/19/14	15:09	02:05	(unrelated sample)
ZZZZZZ	N90412.D	09/19/14	15:37	02:33	(unrelated sample)
ZZZZZZ	N90413.D	09/19/14	16:05	03:01	(unrelated sample)
ZZZZZZ	N90414.D	09/19/14	16:33	03:29	(unrelated sample)
ZZZZZZ	N90415.D	09/19/14	17:02	03:58	(unrelated sample)
ZZZZZZ	N90416.D	09/19/14	17:30	04:26	(unrelated sample)
ZZZZZZ	N90417.D	09/19/14	17:58	04:54	(unrelated sample)
ZZZZZZ	N90418.D	09/19/14	18:26	05:22	(unrelated sample)
ZZZZZZ	N90422.D	09/19/14	20:19	07:15	(unrelated sample)
ZZZZZZ	N90423.D	09/19/14	20:47	07:43	(unrelated sample)
ZZZZZZ	N90424.D	09/19/14	21:16	08:12	(unrelated sample)
ZZZZZZ	N90425.D	09/19/14	21:44	08:40	(unrelated sample)
ZZZZZZ	N90426.D	09/19/14	22:12	09:08	(unrelated sample)
ZZZZZZ	N90427.D	09/19/14	22:40	09:36	(unrelated sample)
ZZZZZZ	N90428.D	09/19/14	23:09	10:05	(unrelated sample)
ZZZZZZ	N90429.D	09/19/14	23:37	10:33	(unrelated sample)
ZZZZZZ	N90430.D	09/20/14	00:05	11:01	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample:	MSN3391-BFB	**Injection Date:**	11/03/14
Lab File ID:	N91773.D	**Injection Time:**	08:49
Instrument ID:	GCMSN		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	31176	20.5		Pass
75	30.0 - 60.0% of mass 95	68968	45.4		Pass
95	Base peak, 100% relative abundance	152000	100.0		Pass
96	5.0 - 9.0% of mass 95	9817	6.46		Pass
173	Less than 2.0% of mass 174	827	0.54	(0.77) [a]	Pass
174	50.0 - 150.0% of mass 95	107328	70.6		Pass
175	5.0 - 9.0% of mass 174	7428	4.89	(6.92) [a]	Pass
176	95.0 - 101.0% of mass 174	102320	67.3	(95.3) [a]	Pass
177	5.0 - 9.0% of mass 176	6913	4.55	(6.76) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
MSN3391-BS	N91773.D	11/03/14	08:49	00:00	Blank Spike
MSN3391-CC3345	N91773.D	11/03/14	08:49	00:00	Continuing cal 50
MSN3391-MB	N91776.D	11/03/14	10:14	01:25	Method Blank
MC34663-27	N91777.D	11/03/14	10:42	01:53	MW5-5DQ
MC34663-28	N91778.D	11/03/14	11:10	02:21	MW10-10DQ
MC34663-31	N91779.D	11/03/14	11:39	02:50	14185-001
MC34663-24	N91780.D	11/03/14	12:07	03:18	PW10-2
MC34663-27MS	N91781.D	11/03/14	12:35	03:46	Matrix Spike
MC34663-27MSD	N91782.D	11/03/14	13:03	04:14	Matrix Spike Duplicate
MC34663-27	N91783.D	11/03/14	13:31	04:42	MW5-5DQ
MC34663-28	N91784.D	11/03/14	14:00	05:11	MW10-10DQ
MC34663-24	N91785.D	11/03/14	14:28	05:39	PW10-2
ZZZZZZ	N91786.D	11/03/14	14:56	06:07	(unrelated sample)
ZZZZZZ	N91787.D	11/03/14	15:24	06:35	(unrelated sample)
ZZZZZZ	N91788.D	11/03/14	15:53	07:04	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample:	MSV1312-BFB	**Injection Date:**	10/30/14
Lab File ID:	V36192.D	**Injection Time:**	19:11
Instrument ID:	GCMSV		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	57357	17.1		Pass
75	30.0 - 60.0% of mass 95	142179	42.3		Pass
95	Base peak, 100% relative abundance	336363	100.0		Pass
96	5.0 - 9.0% of mass 95	22371	6.65		Pass
173	Less than 2.0% of mass 174	2029	0.60	(0.68) [a]	Pass
174	50.0 - 100.0% of mass 95	297003	88.3		Pass
175	5.0 - 9.0% of mass 174	21112	6.28	(7.11) [a]	Pass
176	95.0 - 101.0% of mass 174	285803	85.0	(96.2) [a]	Pass
177	5.0 - 9.0% of mass 176	18784	5.58	(6.57) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
MSV1312-IC1312	V36193.D	10/30/14	19:37	00:26	Initial cal 0.25
MSV1312-IC1312	V36194.D	10/30/14	20:03	00:52	Initial cal 0.5
MSV1312-IC1312	V36195.D	10/30/14	20:30	01:19	Initial cal 1
MSV1312-IC1312	V36196.D	10/30/14	20:56	01:45	Initial cal 2
MSV1312-IC1312	V36197.D	10/30/14	21:22	02:11	Initial cal 5
MSV1312-IC1312	V36198.D	10/30/14	21:49	02:38	Initial cal 10
MSV1312-ICC1312	V36199.D	10/30/14	22:15	03:04	Initial cal 50
MSV1312-IC1312	V36200.D	10/30/14	22:42	03:31	Initial cal 100
MSV1312-IC1312	V36201.D	10/30/14	23:08	03:57	Initial cal 200
MSV1312-IC1312	V36202.D	10/30/14	23:34	04:23	Initial cal 400

Instrument Performance Check (BFB)

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSV1312-BFB
Lab File ID: V36210.D
Instrument ID: GCMSV
Injection Date: 10/31/14
Injection Time: 08:58

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	78083	16.9		Pass
75	30.0 - 60.0% of mass 95	187989	40.7		Pass
95	Base peak, 100% relative abundance	462421	100.0		Pass
96	5.0 - 9.0% of mass 95	30656	6.63		Pass
173	Less than 2.0% of mass 174	2628	0.57	(0.64) [a]	Pass
174	50.0 - 100.0% of mass 95	407616	88.1		Pass
175	5.0 - 9.0% of mass 174	28451	6.15	(6.98) [a]	Pass
176	95.0 - 101.0% of mass 174	394731	85.4	(96.8) [a]	Pass
177	5.0 - 9.0% of mass 176	25315	5.47	(6.41) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
MSV1312-ICV1312	V36211.D	10/31/14	09:25	00:27	Initial cal verification 50
MSV1312-BS	V36212.D	10/31/14	09:52	00:54	Blank Spike
MSV1312-CC1312	V36212.D	10/31/14	09:52	00:54	Continuing cal 50
MSV1312-MB	V36215.D	10/31/14	11:12	02:14	Method Blank
ZZZZZZ	V36216.D	10/31/14	11:39	02:41	(unrelated sample)
ZZZZZZ	V36217.D	10/31/14	12:05	03:07	(unrelated sample)
ZZZZZZ	V36218.D	10/31/14	12:31	03:33	(unrelated sample)
ZZZZZZ	V36219.D	10/31/14	12:58	04:00	(unrelated sample)
MC34659-11	V36220.D	10/31/14	13:25	04:27	(used for QC only; not part of job MC34663)
ZZZZZZ	V36221.D	10/31/14	13:52	04:54	(unrelated sample)
ZZZZZZ	V36222.D	10/31/14	14:19	05:21	(unrelated sample)
ZZZZZZ	V36223.D	10/31/14	14:45	05:47	(unrelated sample)
ZZZZZZ	V36224.D	10/31/14	15:12	06:14	(unrelated sample)
ZZZZZZ	V36225.D	10/31/14	15:39	06:41	(unrelated sample)
ZZZZZZ	V36226.D	10/31/14	16:06	07:08	(unrelated sample)
ZZZZZZ	V36227.D	10/31/14	16:32	07:34	(unrelated sample)
ZZZZZZ	V36228.D	10/31/14	16:59	08:01	(unrelated sample)
ZZZZZZ	V36229.D	10/31/14	17:25	08:27	(unrelated sample)
ZZZZZZ	V36230.D	10/31/14	17:52	08:54	(unrelated sample)
ZZZZZZ	V36231.D	10/31/14	18:18	09:20	(unrelated sample)
ZZZZZZ	V36232.D	10/31/14	18:45	09:47	(unrelated sample)
ZZZZZZ	V36233.D	10/31/14	19:11	10:13	(unrelated sample)
MC34659-11MS	V36234.D	10/31/14	19:37	10:39	Matrix Spike
MC34659-11MSD	V36235.D	10/31/14	20:04	11:06	Matrix Spike Duplicate

Instrument Performance Check (BFB)

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample:	MSV1313-BFB	**Injection Date:**	10/31/14
Lab File ID:	V36237.D	**Injection Time:**	20:57
Instrument ID:	GCMSV		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	77419	18.0		Pass
75	30.0 - 60.0% of mass 95	178667	41.5		Pass
95	Base peak, 100% relative abundance	430869	100.0		Pass
96	5.0 - 9.0% of mass 95	29355	6.81		Pass
173	Less than 2.0% of mass 174	2289	0.53	(0.63) [a]	Pass
174	50.0 - 100.0% of mass 95	365205	84.8		Pass
175	5.0 - 9.0% of mass 174	25736	5.97	(7.05) [a]	Pass
176	95.0 - 101.0% of mass 174	355243	82.4	(97.3) [a]	Pass
177	5.0 - 9.0% of mass 176	22992	5.34	(6.47) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
MSV1313-CC1312	V36237.D	10/31/14	20:57	00:00	Continuing cal 50
MSV1313-BS	V36238.D	10/31/14	21:24	00:27	Blank Spike
MSV1313-MB	V36241.D	10/31/14	22:44	01:47	Method Blank
ZZZZZZ	V36242.D	10/31/14	23:10	02:13	(unrelated sample)
MC34663-10	V36243.D	10/31/14	23:37	02:40	MW5-6
MC34663-10MS	V36244.D	11/01/14	00:04	03:07	Matrix Spike
MC34663-10MSD	V36245.D	11/01/14	00:31	03:34	Matrix Spike Duplicate
ZZZZZZ	V36248.D	11/01/14	01:51	04:54	(unrelated sample)
ZZZZZZ	V36249.D	11/01/14	02:17	05:20	(unrelated sample)
ZZZZZZ	V36250.D	11/01/14	02:44	05:47	(unrelated sample)
ZZZZZZ	V36251.D	11/01/14	03:10	06:13	(unrelated sample)
ZZZZZZ	V36252.D	11/01/14	03:36	06:39	(unrelated sample)
MC34663-1	V36253.D	11/01/14	04:03	07:06	MW1-1DA
MC34663-2	V36254.D	11/01/14	04:29	07:32	MW3-3DA
MC34663-3	V36255.D	11/01/14	04:55	07:58	MW3-4DA
MC34663-4	V36256.D	11/01/14	05:22	08:25	PW3-3A
MC34663-5	V36257.D	11/01/14	05:48	08:51	PZ3-6D
MC34663-6	V36258.D	11/01/14	06:15	09:18	PZ3-7D
MC34663-7	V36259.D	11/01/14	06:41	09:44	PZ3-8D
MC34663-8	V36260.D	11/01/14	07:08	10:11	MW5-1DA
MC34663-9	V36261.D	11/01/14	07:34	10:37	MW5-5D
MC34663-11	V36262.D	11/01/14	08:01	11:04	RW5-1

Instrument Performance Check (BFB)

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample:	MSV1314-BFB	**Injection Date:**	11/02/14
Lab File ID:	V36267.D	**Injection Time:**	08:44
Instrument ID:	GCMSV		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	68328	18.0		Pass
75	30.0 - 60.0% of mass 95	161485	42.6		Pass
95	Base peak, 100% relative abundance	378795	100.0		Pass
96	5.0 - 9.0% of mass 95	24872	6.57		Pass
173	Less than 2.0% of mass 174	2113	0.56	(0.65) [a]	Pass
174	50.0 - 100.0% of mass 95	327381	86.4		Pass
175	5.0 - 9.0% of mass 174	23035	6.08	(7.04) [a]	Pass
176	95.0 - 101.0% of mass 174	315755	83.4	(96.4) [a]	Pass
177	5.0 - 9.0% of mass 176	20659	5.45	(6.54) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
MSV1314-CC1312	V36267.D	11/02/14	08:44	00:00	Continuing cal 50
MSV1314-BS	V36268.D	11/02/14	09:10	00:26	Blank Spike
MSV1314-MB	V36272.D	11/02/14	10:58	02:14	Method Blank
MC34663-30	V36273.D	11/02/14	11:24	02:40	TB_102314
MC34663-29	V36274.D	11/02/14	11:50	03:06	PDB_BLK102314
MC34663-20	V36275.D	11/02/14	12:17	03:33	MW10-4E
MC34663-13	V36276.D	11/02/14	12:44	04:00	RW5-4
MC34663-14	V36277.D	11/02/14	13:11	04:27	MW7-1D
MC34663-15	V36278.D	11/02/14	13:38	04:54	MW8-1
MC34663-16	V36279.D	11/02/14	14:04	05:20	MW8-10D
MC34663-17	V36280.D	11/02/14	14:30	05:46	MW10-1DA
MC34663-19	V36282.D	11/02/14	15:24	06:40	MW10-4D
MC34663-21	V36283.D	11/02/14	15:50	07:06	MW10-9D
MC34663-22	V36284.D	11/02/14	16:17	07:33	MW10-10D
MC34663-23	V36285.D	11/02/14	16:44	08:00	PW10-1
MC34663-25	V36286.D	11/02/14	17:10	08:26	MW13-4D
MC34663-26	V36287.D	11/02/14	17:36	08:52	MW13-5D

Instrument Performance Check (BFB)

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample:	MSV1314-BFB	**Injection Date:**	11/03/14
Lab File ID:	V36291.D	**Injection Time:**	09:04
Instrument ID:	GCMSV		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	68995	17.8		Pass
75	30.0 - 60.0% of mass 95	162864	41.9		Pass
95	Base peak, 100% relative abundance	388608	100.0		Pass
96	5.0 - 9.0% of mass 95	25952	6.68		Pass
173	Less than 2.0% of mass 174	2261	0.58	(0.68) [a]	Pass
174	50.0 - 100.0% of mass 95	334827	86.2		Pass
175	5.0 - 9.0% of mass 174	23709	6.10	(7.08) [a]	Pass
176	95.0 - 101.0% of mass 174	324096	83.4	(96.8) [a]	Pass
177	5.0 - 9.0% of mass 176	21253	5.47	(6.56) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
MSV1314-CC1312	V36291.D	11/03/14	09:04	00:00	Continuing cal 50
MSV1313-BS1	V36292.D	11/03/14	09:30	00:26	Blank Spike
MSV1314-BS1	V36292.D	11/03/14	09:30	00:26	Blank Spike
MSV1314-MB1	V36295.D	11/03/14	10:50	01:46	Method Blank
MSV1313-MB1	V36295.D	11/03/14	10:50	01:46	Method Blank
ZZZZZZ	V36296.D	11/03/14	11:17	02:13	(unrelated sample)
MC34663-12	V36297.D	11/03/14	11:44	02:40	RW5-2
MC34663-18	V36298.D	11/03/14	12:10	03:06	MW10-3D
MC34663-20MS	V36299.D	11/03/14	12:37	03:33	Matrix Spike
MC34663-20MSD	V36300.D	11/03/14	13:04	04:00	Matrix Spike Duplicate
MC34663-9	V36301.D	11/03/14	13:30	04:26	MW5-5D
MC34663-11	V36302.D	11/03/14	13:57	04:53	RW5-1
MC34663-17	V36303.D	11/03/14	14:24	05:20	MW10-1DA
MC34663-22	V36304.D	11/03/14	14:51	05:47	MW10-10D

Volatile Internal Standard Area Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Check Std:	MSN3391-CC3345	**Injection Date:**	11/03/14
Lab File ID:	N91773.D	**Injection Time:**	08:49
Instrument ID:	GCMSN	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	376077	9.11	627902	9.98	324739	13.24	242539	15.79	131082	6.71
Upper Limit [a]	752154	9.61	1255804	10.48	649478	13.74	485078	16.29	262164	7.21
Lower Limit [b]	188039	8.61	313951	9.48	162370	12.74	121270	15.29	65541	6.21

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSN3391-BS	376077	9.11	627902	9.98	324739	13.24	242539	15.79	131082	6.71
MSN3391-MB	345186	9.11	562370	9.98	278782	13.24	183147	15.79	97076	6.76
MC34663-27	362364	9.11	588342	9.98	281507	13.24	200577	15.79	92946	6.76
MC34663-28	361678	9.12	578984	9.98	280769	13.24	191589	15.79	96366	6.75
MC34663-31	337497	9.12	547674	9.98	276940	13.24	186522	15.80	99178	6.76
MC34663-24	336164	9.12	540151	9.99	268925	13.24	180557	15.79	90304	6.77
MC34663-27MS	345511	9.12	569310	9.98	305809	13.24	228586	15.79	104661	6.71
MC34663-27MSD	358430	9.11	590078	9.98	310348	13.24	232874	15.79	113077	6.71
MC34663-27	342677	9.12	553205	9.98	271060	13.24	190662	15.79	109831	6.75
MC34663-28	331724	9.12	538356	9.99	274883	13.24	186179	15.79	93384	6.74
MC34663-24	327675	9.12	525402	9.98	263721	13.24	180406	15.79	102747	6.74
ZZZZZZ	323085	9.12	524205	9.99	264667	13.24	179491	15.79	99098	6.76
ZZZZZZ	312751	9.12	515406	9.98	258286	13.24	179284	15.79	94282	6.76
ZZZZZZ	319999	9.12	519814	9.99	261600	13.24	174810	15.79	95876	6.75

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Check Std: MSV1313-CC1312 **Injection Date:** 10/31/14
Lab File ID: V36237.D **Injection Time:** 20:57
Instrument ID: GCMSV **Method:** SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	940238	6.56	1528463	7.75	733514	11.08	826974	13.29	68346	3.53
Upper Limit [a]	1880476	7.06	3056926	8.25	1467028	11.58	1653948	13.79	136692	4.03
Lower Limit [b]	470119	6.06	764232	7.25	366757	10.58	413487	12.79	34173	3.03

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSV1313-BS	954101	6.56	1554370	7.74	776034	11.08	861315	13.29	72179	3.53
MSV1313-MB	820507	6.56	1408080	7.74	659815	11.08	739503	13.29	65912	3.53
ZZZZZZ	818608	6.57	1420307	7.75	655901	11.08	705803	13.29	59579	3.53
MC34663-10	804286	6.56	1315416	7.75	597602	11.08	703701	13.29	60604	3.53
MC34663-10MS	916674	6.56	1485671	7.75	704134	11.08	807240	13.29	65034	3.53
MC34663-10MSD	933650	6.56	1496633	7.74	739061	11.08	845204	13.29	72478	3.53
ZZZZZZ	826163	6.56	1357642	7.75	668745	11.08	734591	13.29	62912	3.53
ZZZZZZ	800476	6.57	1361440	7.75	654454	11.08	715223	13.29	59065	3.54
ZZZZZZ	796957	6.56	1294478	7.74	605900	11.08	707412	13.29	61735	3.53
ZZZZZZ	756332	6.57	1205491	7.75	575308	11.08	657175	13.29	54489	3.54
ZZZZZZ	739852	6.57	1235386	7.75	583804	11.08	666598	13.30	56630	3.54
MC34663-1	729694	6.57	1206953	7.75	557871	11.08	661245	13.30	47034	3.53
MC34663-2	732996	6.57	1192941	7.75	577619	11.08	667280	13.30	51526	3.54
MC34663-3	822452	6.57	1299706	7.75	613313	11.09	692149	13.30	54065	3.54
MC34663-4	759948	6.57	1229533	7.75	594887	11.09	689519	13.30	52428	3.55
MC34663-5	747631	6.57	1209691	7.75	568715	11.08	644842	13.30	44153	3.53
MC34663-6	719555	6.57	1168412	7.75	551424	11.08	657325	13.30	47092	3.54
MC34663-7	707239	6.57	1208910	7.75	561634	11.08	634087	13.30	46908	3.54
MC34663-8	702248	6.57	1175954	7.75	571164	11.09	647321	13.30	43035	3.54
MC34663-9	768135	6.57	1230225	7.75	544089	11.08	627742	13.30	52198	3.53
MC34663-11	768673	6.56	1171284	7.75	549868	11.08	636531	13.30	47788	3.53

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Check Std:	MSV1314-CC1312	**Injection Date:**	11/02/14
Lab File ID:	V36267.D	**Injection Time:**	08:44
Instrument ID:	GCMSV	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	893322	6.59	1365782	7.77	629531	11.09	770080	13.30	65143	3.55
Upper Limit [a]	1786644	7.09	2731564	8.27	1259062	11.59	1540160	13.80	130286	4.05
Lower Limit [b]	446661	6.09	682891	7.27	314766	10.59	385040	12.80	32572	3.05

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSV1314-BS	950310	6.59	1504235	7.77	667155	11.10	784735	13.30	70758	3.55
MSV1314-MB	782614	6.59	1288884	7.76	565871	11.09	688314	13.31	60076	3.55
MC34663-30	779500	6.59	1262177	7.76	550301	11.10	658202	13.31	48551	3.55
MC34663-29	817719	6.59	1303350	7.77	610056	11.10	698758	13.31	48969	3.55
MC34663-20	819382	6.59	1298490	7.77	606157	11.10	729693	13.31	55779	3.55
MC34663-13	792550	6.59	1277625	7.77	603821	11.10	694435	13.31	54669	3.55
MC34663-14	814677	6.59	1299175	7.77	601359	11.10	677735	13.31	53373	3.55
MC34663-15	765616	6.58	1251913	7.76	591113	11.09	678388	13.30	54500	3.54
MC34663-16	778231	6.58	1233331	7.76	575111	11.09	662966	13.30	48280	3.54
MC34663-17	796302	6.59	1295570	7.76	578936	11.09	651474	13.30	48174	3.54
MC34663-19	724044	6.58	1172955	7.76	566388	11.09	644954	13.30	49097	3.54
MC34663-21	698226	6.58	1186213	7.76	584249	11.09	672282	13.30	53777	3.54
MC34663-22	801344	6.59	1304162	7.77	563762	11.09	630274	13.30	51974	3.55
MC34663-23	744088	6.58	1218735	7.76	586678	11.09	666819	13.30	52432	3.55
MC34663-25	768074	6.59	1267004	7.76	566450	11.09	642388	13.30	48373	3.55
MC34663-26	696357	6.58	1187522	7.76	562667	11.09	636853	13.30	49710	3.54

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Check Std:	MSV1314-CC1312	**Injection Date:**	11/03/14
Lab File ID:	V36291.D	**Injection Time:**	09:04
Instrument ID:	GCMSV	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	894877	6.56	1397242	7.74	645476	11.08	782566	13.29	77638	3.52
Upper Limit [a]	1789754	7.06	2794484	8.24	1290952	11.58	1565132	13.79	155276	4.02
Lower Limit [b]	447439	6.06	698621	7.24	322738	10.58	391283	12.79	38819	3.02

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSV1313-BS1	953008	6.56	1534807	7.74	691945	11.08	806730	13.29	80680	3.53
MSV1314-BS1	953008	6.56	1534807	7.74	691945	11.08	806730	13.29	80680	3.53
MSV1314-MB1	775121	6.56	1290859	7.74	606540	11.08	692301	13.29	68883	3.53
MSV1313-MB1	775121	6.56	1290859	7.74	606540	11.08	692301	13.29	68883	3.53
ZZZZZZ	829935	6.56	1326927	7.74	593432	11.08	675546	13.29	67822	3.53
MC34663-12	829202	6.57	1378498	7.75	601903	11.08	673053	13.29	62383	3.54
MC34663-18	752638	6.56	1259956	7.74	581827	11.08	685975	13.29	63499	3.53
MC34663-20MS	953699	6.56	1513955	7.75	675069	11.08	801108	13.29	72216	3.53
MC34663-20MSD	888934	6.56	1386707	7.74	659307	11.08	803617	13.29	77490	3.53
MC34663-9	906490	6.57	1490209	7.75	650272	11.08	738268	13.29	74440	3.53
MC34663-11	816259	6.56	1312744	7.74	625460	11.08	721320	13.29	68206	3.53
MC34663-17	846129	6.57	1395056	7.75	611645	11.08	682566	13.29	65310	3.54
MC34663-22	779037	6.56	1241065	7.74	583930	11.08	689988	13.29	63053	3.53

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC34663-1	V36253.D	114	99	99
MC34663-2	V36254.D	113	101	100
MC34663-3	V36255.D	108	101	101
MC34663-4	V36256.D	113	102	100
MC34663-5	V36257.D	110	101	100
MC34663-6	V36258.D	114	101	99
MC34663-7	V36259.D	115	101	101
MC34663-8	V36260.D	115	103	100
MC34663-9	V36301.D	108	95	101
MC34663-9	V36261.D	109	97	99
MC34663-10	V36243.D	112	98	99
MC34663-11	V36302.D	107	101	100
MC34663-11	V36262.D	108	101	99
MC34663-12	V36297.D	112	96	102
MC34663-13	V36276.D	114	100	101
MC34663-14	V36277.D	108	99	100
MC34663-15	V36278.D	113	102	101
MC34663-16	V36279.D	110	100	100
MC34663-17	V36303.D	110	97	102
MC34663-17	V36280.D	112	96	101
MC34663-18	V36298.D	111	100	99
MC34663-19	V36282.D	113	101	101
MC34663-20	V36275.D	110	100	98
MC34663-21	V36283.D	117	103	100
MC34663-22	V36304.D	110	99	99
MC34663-22	V36284.D	114	97	101
MC34663-23	V36285.D	114	103	100
MC34663-24	N91785.D	94	103	104
MC34663-24	N91780.D	96	102	106
MC34663-25	V36286.D	114	97	101
MC34663-26	V36287.D	115	102	101
MC34663-27	N91783.D	94	101	101
MC34663-27	N91777.D	96	100	101
MC34663-28	N91784.D	95	103	103
MC34663-28	N91778.D	97	101	102
MC34663-29	V36274.D	109	100	101
MC34663-30	V36273.D	113	95	99
MC34663-31	N91779.D	95	101	105
MC34663-10MS	V36244.D	103	106	102
MC34663-10MSD	V36245.D	102	105	103

Volatile Surrogate Recovery Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC34663-20MS	V36299.D	104	100	99
MC34663-20MSD	V36300.D	103	102	99
MC34663-27MS	N91781.D	97	104	96
MC34663-27MSD	N91782.D	96	102	96
MSN3391-BS	N91773.D	97	104	98
MSN3391-MB	N91776.D	94	102	106
MSV1313-BS	V36238.D	102	106	107
MSV1313-MB	V36241.D	109	101	102
MSV1314-BS	V36268.D	102	100	101
MSV1314-BS1	V36292.D	103	101	102
MSV1314-MB	V36272.D	111	96	98
MSV1314-MB1	V36295.D	108	100	101

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

Initial Calibration Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSN3345-ICC3345
Lab FileID: N90397.D

Response Factor Report MSN

Method : C:\msdchem\1\methods\n140918w.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Fri Sep 19 12:01:33 2014
Response via : Initial Calibration

Calibration Files
0.5 =N90391.D 1 =N90392.D 2 =N90393.D 5 =N90394.D
10 =N90395.D 25 =N90396.D 50 =N90397.D 100 =N90398.D
200 =N90399.D 400 =N90400.D = =

Compound

	0.5	1	2	5	10	25	50	100	200	400	Avg	%RSD
1) p tert butyl alcohol-d9 ----------ISTD----------												
2) tertiary butyl alcohol			2.116	1.627	1.612	1.771	1.676	1.849	1.793	1.619	1.758	9.68
3) Ethanol			0.328	0.262	0.247	0.238	0.240	0.268	0.252	0.213	0.256	13.14
4) I pentafluorobenzene ----------ISTD----------												
5) dichlorodifluoromethane			0.516	0.577	0.615	0.804	0.734	0.755	0.682	0.584	0.658	15.30
6) chloromethane			0.767	0.747	0.841	0.869	0.752	0.851	0.895	0.733	0.807	7.86
7) vinyl chloride		1.342	0.494	0.598	0.649	0.644	0.566	0.574	0.499		0.671	41.33
---- Linear regression ---- Coefficient = 0.9910												
Response Ratio = 0.01192 + 0.53102 *A												
8) bromomethane			0.110	0.137	0.189	0.216	0.234	0.300	0.320		0.215	36.20
---- Quadratic regression ---- Coefficient = 0.9971												
Response Ratio = -0.00728 + 0.23503 *A + 0.02290 *A^2												
9) chloroethane			0.291	0.341	0.380	0.377	0.315	0.315	0.300	0.266	0.323	12.46
10) ethyl ether				0.547	0.531	0.530	0.499	0.465	0.450	0.404	0.489	10.63
11) acetonitrile				0.081	0.086	0.096	0.083	0.070	0.068	0.059	0.078	16.51
12) trichlorofluoromethane		1.604	0.647	0.741	0.827	1.023	0.937	0.953			0.962	32.39
---- Linear regression ---- Coefficient = 0.9926												
Response Ratio = 0.00133 + 0.94402 *A												
13) freon-113				0.308	0.360	0.495	0.466	0.451	0.457	0.390	0.418	16.06
14) acrolein				0.066	0.066	0.066	0.062	0.050	0.048	0.041	0.057	18.10
15) 1,1-dichloroethene		0.705	0.558	0.360	0.365	0.444	0.399	0.407	0.401	0.355	0.444	26.16
---- Linear regression ---- Coefficient = 0.9952												
Response Ratio = 0.00648 + 0.37622 *A												
16) acetone				0.129	0.136	0.126	0.099	0.085			0.115	18.91
17) Methyl Acetate												

Initial Calibration Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSN3345-ICC3345
Lab FileID: N90397.D

```
                          0.486 0.501 0.512 0.429 0.379 0.340        0.441   16.01
18)  methylene chloride
                     0.687 0.546 0.552 0.553 0.471 0.469 0.461 0.418  0.520   16.20
19)  methyl tert butyl ether
           1.122 0.965 0.910 0.696 0.601 1.488 1.264 1.271 1.292 1.197  1.080   26.10
            ---- Linear regression ----  Coefficient =  0.9931
              Response Ratio = -0.00807 + 1.23694 *A

20)  acrylonitrile
                          0.226 0.256 0.258 0.225 0.201 0.183 0.169  0.217   15.81
21)  allyl chloride
                          0.926 0.937 1.042 0.942 0.952 0.925 0.773  0.928    8.55
22)  trans-1,2-dichloroethene
                0.720 0.570 0.439 0.439 0.494 0.467 0.475 0.479 0.435  0.502   18.22
23)  iodomethane
                          0.079 0.127 0.198 0.260 0.345 0.377 0.322  0.244   46.56
            ---- Linear regression ----  Coefficient =  0.9910
              Response Ratio = -0.01973 + 0.33574 *A

24)  carbon disulfide
                          1.276 1.336 1.599 1.453 1.506 1.545 1.400  1.445    7.99
25)  propionitrile
                          0.002 0.005 0.007 0.008 0.008 0.007        0.006#  39.82
            ---- Linear regression ----  Coefficient =  0.9963
              Response Ratio = -0.00052 + 0.00771 *A

26)  vinyl acetate
                          0.478 0.688 0.779 0.738 0.775 0.752 0.707  0.702   14.90
27)  chloroprene
                          0.769 0.848 1.045 0.979 0.972 0.944 0.750  0.901   12.54
28)  di-isopropyl ether
                     2.977 2.567 2.526 2.687 2.402 2.305 2.085 1.618  2.396   17.12
29)  methacrylonitrile
                          0.378 0.408 0.383 0.347 0.339 0.330 0.289  0.353   11.14
30)  2-butanone
                          0.046 0.063 0.070 0.063 0.057 0.052 0.043  0.056#  17.20
31)  Hexane
                          0.885 0.850 1.061 0.958 0.916 0.851 0.648  0.881   14.34
32)  1,1-dichloroethane
                1.637 1.395 1.116 1.176 1.246 1.129 1.161 1.162 1.056  1.231   14.61
33)  tert-butyl ethyl ether
                     0.263 0.258 0.249 1.348 1.155 1.271 1.514 1.383  0.930   60.92
            ---- Quadratic regression ----  Coefficient =  0.9907
              Response Ratio = -0.08188 + 1.36516 *A + 0.00714 *A^2

34)  isobutyl alcohol
                          0.397 0.397 0.426 0.383 0.359 0.328 0.253  0.363   15.91
35)  2,2-dichloropropane
                          0.150 0.271 0.870 0.827 0.874 0.890 0.779  0.666   47.34
            ---- Linear regression ----  Coefficient =  0.9920
              Response Ratio = -0.06601 + 0.84378 *A

36)  cis-1,2-dichloroethene
                0.745 0.638 0.543 0.539 0.563 0.523 0.545 0.553 0.496  0.572   13.19
37)  ethyl acetate
                          1.867 1.939 2.101 1.913 1.795 1.643 1.264  1.789   15.11
38)  bromochloromethane
                          0.244 0.238 0.254 0.236 0.244 0.237 0.186  0.234    9.38
39)  chloroform
                1.557 1.259 1.045 1.049 1.096 1.005 1.027 1.004 0.854  1.099   18.31
```

Initial Calibration Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSN3345-ICC3345
Lab FileID: N90397.D

```
40)  dibromofluoromethane (s)
                            0.507 0.527 0.506 0.532 0.531 0.523 0.466  0.513    4.58
41)  Tetrahydrofuran
                            0.155 0.189 0.184 0.164 0.153 0.140 0.121  0.158   15.17
42)  1,1,1-trichloroethane
                 0.625 0.687 0.662 0.805 0.999 0.960 1.000 0.992 0.856  0.843   18.31

43) I   1,4-difluorobenzene   ----------------ISTD--------------------
44)  Cyclohexane
                            0.508 0.568 0.797 0.763 0.778 0.731 0.602  0.679   17.12
45)  carbon tetrachloride
                 0.577 0.490 0.355 0.402 0.544 0.517 0.545 0.523 0.449  0.489   14.98
46)  1,1-dichloropropene
                            0.359 0.403 0.495 0.472 0.483 0.460 0.404  0.439   11.59
47)  benzene
           1.840 1.953 1.639 1.307 1.321 1.388 1.256 1.315 1.227 1.089  1.433   19.65
48)  1,2-dichloroethane
                 0.959 0.799 0.623 0.616 0.666 0.616 0.640 0.589 0.531  0.671   19.38
49)  tert-amyl methyl ether
                       0.203 0.137 0.146 0.472 0.416 0.419 0.529 0.578  0.363   48.41
              ---- Quadratic regression ----  Coefficient =  0.9954
                Response Ratio = -0.01811 + 0.42102 *A + 0.02063 *A^2

50)  heptane
                            0.339 0.327 0.473 0.448 0.464 0.442 0.379  0.410   14.87
51)  trichloroethene
           0.541 0.583 0.496 0.379 0.390 0.418 0.387 0.395 0.368 0.323  0.428   19.51
52)  1,2-dichloropropane
                       0.445 0.402 0.411 0.449 0.412 0.427 0.387 0.331  0.408    9.20
53)  dibromomethane
                       0.260 0.199 0.206 0.226 0.201 0.207 0.193 0.174  0.208   12.26
54)  bromodichloromethane
                 0.677 0.579 0.479 0.499 0.545 0.509 0.552 0.520 0.472  0.537   11.75
55)  Methylcyclohexane
                            0.374 0.404 0.584 0.566 0.573 0.547 0.471  0.503   17.23
56)  2-chloroethyl vinyl ether
                            0.402 0.411 0.449 0.412 0.427 0.387 0.331  0.403    9.23
57)  methyl methacrylate
                            0.172 0.191 0.210 0.197 0.196 0.178 0.163  0.187    8.81
58)  1,4-dioxane
                            0.002 0.003 0.003 0.003 0.003 0.002        0.003#  24.96
              ---- Quadratic regression ----  Coefficient =  0.9959
                Response Ratio = -0.00071 + 0.00349 *A + -0.00006 *A^2

59)  cis-1,3-dichloropropene
           0.251 0.328 0.359 0.354 0.422 0.569 0.532 0.567 0.544 0.497  0.442   25.91
              ---- Linear regression ----  Coefficient =  0.9961
                Response Ratio = -0.00412 + 0.52238 *A

60)  toluene-d8 (s)
                            1.146 1.244 1.256 1.297 1.252 1.154 1.045  1.199    7.33
61)  4-methyl-2-pentanone
                            0.379 0.434 0.450 0.404 0.373 0.333 0.300  0.382   13.96
62)  toluene
                 1.213 0.978 0.799 0.809 0.895 0.811 0.832 0.753 0.658  0.861   18.45
63)  trans-1,3-dichloropropene
           0.362 0.443 0.389 0.329 0.349 0.485 0.447 0.477 0.458 0.430  0.417   13.35
64)  1,1,2-trichloroethane
                 0.397 0.310 0.248 0.261 0.274 0.251 0.251 0.227        0.277   19.46
65)  ethyl methacrylate
```

Initial Calibration Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSN3345-ICC3345
Lab FileID: N90397.D

```
                          0.332 0.366 0.416 0.381 0.378 0.326 0.285  0.355   12.23

66) I   chlorobenzene-d5      ----------------ISTD---------------------
67)  tetrachloroethene
          0.842 0.876 0.722 0.541 0.558 0.611 0.590 0.637 0.596 0.538  0.651   18.74
68)  1,3-dichloropropane
                          0.995 0.954 0.999 0.941 0.986 0.912 0.808  0.942    7.14
69)  dibromochloromethane
          0.699 0.774 0.746 0.609 0.628 0.656 0.644 0.705 0.666 0.607  0.673    8.41
70)  1,2-dibromoethane
                     0.640 0.501 0.526 0.554 0.505 0.543 0.501 0.453  0.528   10.42
71)  2-hexanone
                          0.557 0.650 0.661 0.616 0.585 0.521 0.453  0.577   12.79
72)  chlorobenzene
                2.540 2.055 1.668 1.578 1.684 1.541 1.653 1.569 1.405  1.744   19.89
73)  1,1,1,2-tetrachloroethane
                0.819 0.686 0.594 0.596 0.629 0.593 0.637 0.605 0.555  0.635   12.32
74)  ethylbenzene
                4.620 3.654 2.927 2.958 3.193 2.994 3.220 3.025 2.660  3.250   17.87
75)  m,p-xylene
          1.485 1.631 1.323 1.058 1.037 1.109 0.999 1.070 0.983        1.188   19.74
76)  o-xylene
          1.376 1.583 1.374 1.064 1.060 1.089 1.015 1.090 1.003 0.888  1.154   18.73
77)  styrene
                          1.561 1.639 1.756 1.666 1.810 1.736 1.552  1.674    5.89
78)  bromoform
                0.531 0.384 0.337 0.355 0.382 0.374 0.412 0.392 0.359  0.392   14.47
79)  trans-1,4-dichloro-2-butene
                          0.095 0.124 0.173 0.170 0.183 0.183 0.175  0.157   21.77
           ---- Linear regression ----  Coefficient =  0.9990
             Response Ratio = -0.00840 + 0.18004 *A


80) I   1,4-dichlorobenzene-d ----------------ISTD---------------------
81)  isopropylbenzene
                          3.339 3.416 3.795 3.596 3.680 3.592 3.395  3.544    4.71
82)  bromofluorobenzene (s)
                          1.264 1.244 1.169 1.248 1.236 1.205 1.167  1.219    3.20
83)  bromobenzene
                          0.861 0.819 0.858 0.808 0.860 0.842 0.823  0.839    2.64
84)  1,1,2,2-tetrachloroethane
          1.268 1.484 1.115 0.911 0.876 0.878 0.783                  1.045   24.37
           ---- Quadratic regression ----  Coefficient =  0.9972
             Response Ratio = 0.00619 + 0.90872 *A + -0.12790 *A^2

85)  1,2,3-trichloropropane
                          0.838 0.857 0.931 0.874 0.868 0.832 0.802  0.857    4.72
86)  n-propylbenzene
                          4.328 4.375 4.903 4.552 4.704 4.616 4.288  4.538    4.93
87)  2-chlorotoluene
                          2.936 2.880 2.999 2.796 2.924 2.911 2.754  2.886    2.93
88)  4-chlorotoluene
                          3.058 3.031 3.171 2.962 3.116 3.103 2.899  3.049    3.08
89)  1,3,5-trimethylbenzene
                5.065 4.012 3.251 3.233 3.475 3.266 3.394 3.276 3.053  3.558   17.58
90)  tert-butylbenzene
                          1.926 1.988 2.250 2.152 2.203 2.146 1.959  2.089    6.17
91)  1,2,4-trimethylbenzene
                4.967 3.993 3.209 3.277 3.416 3.258 3.357 3.241 3.029  3.527   17.06
92)  sec-butylbenzene
```

Initial Calibration Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSN3345-ICC3345
Lab FileID: N90397.D

```
                          3.728 3.740 4.344 4.122 4.217 4.053 3.706  3.987    6.55
 93)  1,3-dichlorobenzene
                 2.816 2.133 1.697 1.622 1.668 1.597 1.677 1.631 1.558  1.822   22.48
              ---- Linear regression ----  Coefficient =  0.9992
                Response Ratio = 0.02230 + 1.58947 *A

 94)  p-isopropyltoluene
                          3.149 3.245 3.581 3.385 3.435 3.247 2.764  3.258    8.01
 95)  1,4-dichlorobenzene
                 2.996 2.124 1.705 1.601 1.633 1.523 1.547 1.454 1.333  1.768   28.84
              ---- Linear regression ----  Coefficient =  0.9964
                Response Ratio = 0.03514 + 1.40180 *A

 96)  1,2-dichlorobenzene
                 2.549 1.951 1.550 1.521 1.650 1.583 1.602 1.523 1.431  1.707   20.38
              ---- Linear regression ----  Coefficient =  0.9979
                Response Ratio = 0.02128 + 1.48476 *A

 97)  n-butylbenzene
                          3.054 3.132 3.712 3.557 3.630 3.457 3.115  3.380    8.08
 98)  1,2-dibromo-3-chloropropane
                          0.124 0.127 0.158 0.144 0.136 0.130 0.127  0.135    9.05
 99)  1,2,4-trichlorobenzene
                          0.446 0.573 0.776 0.777 0.750 0.733 0.669  0.675   18.39
100)  1,3,5-trichlorobenzene
                          1.075 1.052 1.152 1.096 1.062 0.984 0.895  1.045    7.95
101)  hexachlorobutadiene
                          0.525 0.520 0.595 0.559 0.528 0.506 0.471  0.529    7.40
102)  naphthalene
                          0.313 0.398 0.895 1.024 0.995 1.037 0.993  0.808   38.81
              ---- Linear regression ----  Coefficient =  0.9982
                Response Ratio = -0.08156 + 1.02758 *A

103)  1,2,3-trichlorobenzene
                          0.248 0.332 0.533 0.553 0.513 0.522 0.474  0.453   25.81
              ---- Linear regression ----  Coefficient =  0.9947
                Response Ratio = -0.01826 + 0.50273 *A

104)  2-methylnaphthalene
                          0.271 0.248 0.304 0.297 0.282 0.274 0.252  0.276    7.62
105)  1-methylnaphthalene
                          0.206 0.221 0.213 0.225 0.205 0.197 0.174  0.206    8.34
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           n140918w.m        Fri Sep 19 12:07:17 2014
```

Initial Calibration Verification

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSN3345-ICV3345
Lab FileID: N90407.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\N140919\N90407.D Vial: 16
Acq On : 19 Sep 2014 1:04 pm Operator: krystend
Sample : cc3345-50 Inst : MSN
Misc : ms32746,MSN3345,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\n140918w.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Fri Sep 19 12:01:33 2014
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 p	tert butyl alcohol-d9	1.000	1.000	0.0	103	0.00	6.70
2 P	tertiary butyl alcohol	1.758	1.894	-7.7	116	0.00	6.78
3 p	Ethanol	0.256	0.299	-16.8	128	0.01	5.56
4 I	pentafluorobenzene	1.000	1.000	0.0	108	0.00	9.12
5 p	dichlorodifluoromethane	0.658	0.844	-28.3#	124	0.00	4.39
6 P	chloromethane	0.807	0.815	-1.0	117	0.00	4.66
		Amount	Calc.	%Drift			
7 p	vinyl chloride	50.000	59.685	-19.4	123	0.00	4.90
8 p	bromomethane	50.000	50.545	-1.1	117	0.00	5.40
		AvgRF	CCRF	%Dev			
9 p	chloroethane	0.323	0.388	-20.1#	133	0.00	5.56
10 p	ethyl ether	0.489	0.551	-12.7	119	0.00	6.43
11 p	acetonitrile	0.078	0.089	-14.1	116	0.00	6.43
		Amount	Calc.	%Drift			
12 p	trichlorofluoromethane	50.000	55.869	-11.7	122	0.00	6.21
		AvgRF	CCRF	%Dev			
13 p	freon-113	0.418	0.430	-2.9	100	0.00	6.96
14 p	acrolein	0.057	0.058	-1.8	100	0.00	6.20
		Amount	Calc.	%Drift			
15 p	1,1-dichloroethene	50.000	52.865	-5.7	109	0.00	6.79
		AvgRF	CCRF	%Dev			
16 p	acetone	0.115	0.100	13.0	109	0.00	6.34
17 M	Methyl Acetate	0.441	0.605	-37.2#	152	0.00	6.96
18 p	methylene chloride	0.520	0.485	6.7	111	0.00	6.94
		Amount	Calc.	%Drift			
19 p	methyl tert butyl ether	50.000	54.924	-9.8	115	0.00	7.70
		AvgRF	CCRF	%Dev			
20 p	acrylonitrile	0.217	0.221	-1.8	106	0.00	6.85
21 p	allyl chloride	0.928	1.042	-12.3	119	0.00	7.03
22 p	trans-1,2-dichloroethene	0.502	0.491	2.2	113	0.00	7.62
		Amount	Calc.	%Drift			
23 p	iodomethane	50.000	38.452	23.1#	99	0.00	6.86

Initial Calibration Verification

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSN3345-ICV3345
Lab FileID: N90407.D

			AvgRF	CCRF	%Dev			
24	p	carbon disulfide	1.445	1.333	7.8	99	0.00	7.22
			Amount	Calc.	%Drift			
25	p	propionitrile	50.000	56.235	-12.5	111	0.00	6.85
			AvgRF	CCRF	%Dev			
26	p	vinyl acetate	0.702	0.564	19.7	82	0.00	7.97
27	p	chloroprene	0.901	1.156	-28.3#	127	0.00	8.23
28	p	di-isopropyl ether	2.396	2.580	-7.7	116	0.00	8.26
29	p	methacrylonitrile	0.353	0.360	-2.0	112	0.00	8.39
30	p	2-butanone	0.056	0.065#	-16.1	112	0.00	8.28
31	p	Hexane	0.881	0.948	-7.6	107	0.00	8.25
32	P	1,1-dichloroethane	1.231	1.260	-2.4	120	0.00	7.88
			Amount	Calc.	%Drift			
33	p	tert-butyl ethyl ether	50.000	46.992	6.0	113	0.00	8.66
			AvgRF	CCRF	%Dev			
34	p	isobutyl alcohol	0.363	0.396	-9.1	112	0.00	8.26
			Amount	Calc.	%Drift			
35	p	2,2-dichloropropane	50.000	58.647	-17.3	120	0.00	8.73
			AvgRF	CCRF	%Dev			
36	p	cis-1,2-dichloroethene	0.572	0.567	0.9	117	0.00	8.44
37	p	ethyl acetate	1.789	1.981	-10.7	112	0.00	8.26
38	p	bromochloromethane	0.234	0.250	-6.8	114	0.00	8.61
39	p	chloroform	1.099	1.099	0.0	118	0.00	8.64
40	S	dibromofluoromethane (s)	0.513	0.498	2.9	101	0.00	8.77
41	p	Tetrahydrofuran	0.158	0.165	-4.4	109	0.00	8.97
42	p	1,1,1-trichloroethane	0.843	1.001	-18.7	112	0.00	9.39
43	I	1,4-difluorobenzene	1.000	1.000	0.0	107	0.00	9.99
44	p	Cyclohexane	0.679	0.765	-12.7	107	0.00	9.67
45	p	carbon tetrachloride	0.489	0.545	-11.5	113	0.00	9.75
46	p	1,1-dichloropropene	0.439	0.515	-17.3	117	0.00	9.57
47	p	benzene	1.433	1.379	3.8	118	0.00	9.79
48	p	1,2-dichloroethane	0.671	0.688	-2.5	120	0.00	9.30
			Amount	Calc.	%Drift			
49	p	tert-amyl methyl ether	50.000	49.536	0.9	108	0.00	9.90
			AvgRF	CCRF	%Dev			
50	p	heptane	0.410	0.453	-10.5	108	0.00	10.25
51	p	trichloroethene	0.428	0.417	2.6	115	0.00	10.41
52	p	1,2-dichloropropane	0.408	0.478	-17.2	124	0.00	10.38
53	p	dibromomethane	0.208	0.222	-6.7	119	0.00	10.36
54	p	bromodichloromethane	0.537	0.608	-13.2	128	0.00	10.46
55	p	Methylcyclohexane	0.503	0.563	-11.9	107	0.00	10.92
56	p	2-chloroethyl vinyl ether	0.403	0.478	-18.6	124	0.00	10.38
57	p	methyl methacrylate	0.187	0.211	-12.8	115	0.00	10.55
			Amount	Calc.	%Drift			
58	p	1,4-dioxane	250.000	243.850	2.5	100	0.00	10.56
59	p	cis-1,3-dichloropropene	50.000	59.102	-18.2	123	0.00	11.08
			AvgRF	CCRF	%Dev			
60	S	toluene-d8 (s)	1.199	1.261	-5.2	104	0.00	11.78

Initial Calibration Verification

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSN3345-ICV3345
Lab FileID: N90407.D

61	p	4-methyl-2-pentanone	0.382	0.416	-8.9	110	0.00	11.17
62	p	toluene	0.861	0.861	0.0	114	0.00	11.85
63	p	trans-1,3-dichloropropene	0.417	0.524	-25.7#	125	0.00	11.49
64	p	1,1,2-trichloroethane	0.277	0.287	-3.6	122	0.00	11.67
65	p	ethyl methacrylate	0.355	0.380	-7.0	107	0.00	11.86
66	I	chlorobenzene-d5	1.000	1.000	0.0	104	0.00	13.24
67	p	tetrachloroethene	0.651	0.667	-2.5	118	0.00	12.59
68	p	1,3-dichloropropane	0.942	1.045	-10.9	116	0.00	11.90
69	p	dibromochloromethane	0.673	0.758	-12.6	122	0.00	12.19
70	p	1,2-dibromoethane	0.528	0.577	-9.3	119	0.00	12.45
71	p	2-hexanone	0.577	0.657	-13.9	111	0.00	12.02
72	P	chlorobenzene	1.744	1.707	2.1	115	0.00	13.28
73	p	1,1,1,2-tetrachloroethane	0.635	0.696	-9.6	122	0.00	13.19
74	p	ethylbenzene	3.250	3.247	0.1	113	0.00	13.45
75	p	m,p-xylene	1.188	1.103	7.2	115	0.00	13.63
76	p	o-xylene	1.154	1.113	3.6	114	0.00	14.04
77	p	styrene	1.674	1.816	-8.5	113	0.00	13.97
78	P	bromoform	0.392	0.434	-10.7	121	0.00	13.80
		----------	Amount	Calc.	%Drift		----------	
79	p	trans-1,4-dichloro-2-bute	50.000	50.549	-1.1	106	0.00	14.19
		----------	AvgRF	CCRF	%Dev		----------	
80	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	105	0.00	15.80
81	p	isopropylbenzene	3.544	3.702	-4.5	108	0.00	14.40
82	S	bromofluorobenzene (s)	1.219	1.162	4.7	97	0.00	14.46
83	p	bromobenzene	0.839	0.901	-7.4	117	0.00	14.69
		----------	Amount	Calc.	%Drift		----------	
84	P	1,1,2,2-tetrachloroethane	50.000	57.874	-15.7	118	0.00	14.05
		----------	AvgRF	CCRF	%Dev		----------	
85	p	1,2,3-trichloropropane	0.857	0.957	-11.7	115	0.00	14.19
86	p	n-propylbenzene	4.538	4.825	-6.3	111	0.00	14.85
87	p	2-chlorotoluene	2.886	3.017	-4.5	113	0.00	14.97
88	p	4-chlorotoluene	3.049	3.161	-3.7	112	0.00	15.04
89	p	1,3,5-trimethylbenzene	3.558	3.303	7.2	106	0.00	15.12
90	p	tert-butylbenzene	2.089	2.180	-4.4	106	0.00	15.43
91	p	1,2,4-trimethylbenzene	3.527	3.468	1.7	111	0.00	15.54
92	M	sec-butylbenzene	3.987	4.179	-4.8	106	0.00	15.65
		----------	Amount	Calc.	%Drift		----------	
93	p	1,3-dichlorobenzene	50.000	54.075	-8.2	114	0.00	15.76
		----------	AvgRF	CCRF	%Dev		----------	
94	p	p-isopropyltoluene	3.258	3.465	-6.4	107	0.00	15.82
		----------	Amount	Calc.	%Drift		----------	
95	p	1,4-dichlorobenzene	50.000	57.928	-15.9	114	0.00	15.83
96	p	1,2-dichlorobenzene	50.000	57.489	-15.0	114	0.00	16.19
		----------	AvgRF	CCRF	%Dev		----------	
97	p	n-butylbenzene	3.380	3.685	-9.0	108	0.00	16.24
98	p	1,2-dibromo-3-chloropropa	0.135	0.169	-25.2#	122	0.00	16.66
99	p	1,2,4-trichlorobenzene	0.675	0.809	-19.9	109	0.00	18.02
100	p	1,3,5-trichlorobenzene	1.045	1.153	-10.3	110	0.00	17.47
101	p	hexachlorobutadiene	0.529	0.576	-8.9	108	0.00	18.30

Initial Calibration Verification

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSN3345-ICV3345
Lab FileID: N90407.D

			Amount	Calc.	%Drift			
102	p	naphthalene	50.000	62.845	-25.7#	124	0.00	18.29
103	p	1,2,3-trichlorobenzene	50.000	58.201	-16.4	107	0.00	18.49

			AvgRF	CCRF	%Dev			
104	p	2-methylnaphthalene	0.276	0.250	9.4	88	0.00	19.67
105	p	1-methylnaphthalene	0.206	0.188	8.7	87	0.00	19.92

(#) = Out of Range SPCC's out = 1 CCC's out = 0
N90397.D n140918w.m Fri Sep 19 15:32:19 2014

Continuing Calibration Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSN3391-CC3345
Lab FileID: N91773.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\N141103\N91773.D Vial: 17
Acq On : 3 Nov 2014 8:49 am Operator: jaclynb
Sample : cc3345-50 Inst : MSN
Misc : ms33112,MSN3391,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\n140918w.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Fri Sep 19 12:01:33 2014
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	p	tert butyl alcohol-d9	1.000	1.000	0.0	123	0.02	6.71
2	P	tertiary butyl alcohol	0.879	0.952	-8.3	70	0.01	6.80
3	p	Ethanol	0.256	0.277	-8.2	141	0.02	5.57
4	I	pentafluorobenzene	1.000	1.000	0.0	134	0.00	9.11
5	p	dichlorodifluoromethane	0.658	0.560	14.9	102	0.00	4.40
6	P	chloromethane	0.807	0.809	-0.2	144	0.00	4.66
			Amount	Calc.	%Drift			
7	p	vinyl chloride	50.000	50.146	-0.3	129	0.00	4.90
8	p	bromomethane	50.000	57.267	-14.5	167	0.00	5.40
			AvgRF	CCRF	%Dev			
9	p	chloroethane	0.323	0.421	-30.3#	179	0.00	5.57
10	p	ethyl ether	0.489	0.550	-12.5	147	0.00	6.44
11	p	acetonitrile	0.078	0.080	-2.6	129	0.00	6.44
			Amount	Calc.	%Drift			
12	p	trichlorofluoromethane	50.000	43.275	13.5	117	0.00	6.21
			AvgRF	CCRF	%Dev			
13	p	freon-113	0.418	0.539	-28.9#	154	0.00	6.97
14	p	acrolein	0.057	0.053	7.0	115	0.00	6.21
			Amount	Calc.	%Drift			
15	p	1,1-dichloroethene	50.000	66.664	-33.3#	170	0.00	6.79
			AvgRF	CCRF	%Dev			
16	p	acetone	0.115	0.118	-2.6	159	0.01	6.34
17	M	Methyl Acetate	0.441	0.514	-16.6	160	0.00	6.97
18	p	methylene chloride	0.520	0.595	-14.4	169	0.00	6.94
			Amount	Calc.	%Drift			
19	p	methyl tert butyl ether	50.000	46.803	6.4	122	0.00	7.71
			AvgRF	CCRF	%Dev			
20	p	acrylonitrile	0.217	0.207	4.6	123	0.00	6.85
21	p	allyl chloride	0.928	1.009	-8.7	143	0.00	7.03
22	p	trans-1,2-dichloroethene	0.502	0.586	-16.7	168	0.00	7.62
			Amount	Calc.	%Drift			
23	p	iodomethane	50.000	61.540	-23.1#	202	0.00	6.85

Continuing Calibration Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSN3391-CC3345
Lab FileID: N91773.D

			AvgRF	CCRF	%Dev			
24	p	carbon disulfide	1.445	1.981	-37.1#	182	0.00	7.22
			Amount	Calc.	%Drift			
25	p	propionitrile	50.000	52.516	-5.0	128	0.00	6.85
			AvgRF	CCRF	%Dev			
26	p	vinyl acetate	0.702	0.568	19.1	103	0.00	7.98
27	p	chloroprene	0.901	1.004	-11.4	137	0.00	8.23
28	p	di-isopropyl ether	2.396	2.154	10.1	120	0.00	8.26
29	p	methacrylonitrile	0.353	0.301	14.7	116	0.00	8.40
30	p	2-butanone	0.056	0.078#	-39.3#	167	0.01	8.29
31	p	Hexane	0.881	0.926	-5.1	129	0.00	8.25
32	P	1,1-dichloroethane	1.231	1.281	-4.1	152	0.00	7.88
			Amount	Calc.	%Drift			
33	p	tert-butyl ethyl ether	50.000	34.821	30.4#	101	0.00	8.66
			AvgRF	CCRF	%Dev			
34	p	isobutyl alcohol	0.363	0.365	-0.6	127	0.00	8.26
			Amount	Calc.	%Drift			
35	p	2,2-dichloropropane	50.000	52.862	-5.7	133	0.00	8.73
			AvgRF	CCRF	%Dev			
36	p	cis-1,2-dichloroethene	0.572	0.631	-10.3	161	0.00	8.44
37	p	ethyl acetate	1.789	1.828	-2.2	128	0.00	8.26
38	p	bromochloromethane	0.234	0.271	-15.8	153	0.00	8.61
39	p	chloroform	1.099	1.030	6.3	137	0.00	8.64
40	S	dibromofluoromethane (s)	0.513	0.500	2.5	126	0.00	8.77
41	p	Tetrahydrofuran	0.158	0.151	4.4	123	0.00	8.98
42	p	1,1,1-trichloroethane	0.843	0.890	-5.6	124	0.00	9.39
43	I	1,4-difluorobenzene	1.000	1.000	0.0	143	0.00	9.98
44	p	Cyclohexane	0.679	0.811	-19.4	152	0.00	9.67
45	p	carbon tetrachloride	0.489	0.441	9.8	122	0.00	9.75
46	p	1,1-dichloropropene	0.439	0.510	-16.2	154	0.00	9.56
47	p	benzene	1.433	1.445	-0.8	164	0.00	9.79
48	p	1,2-dichloroethane	0.671	0.510	24.0#	118	0.00	9.30
			Amount	Calc.	%Drift			
49	p	tert-amyl methyl ether	50.000	41.485	17.0	119	0.00	9.91
			AvgRF	CCRF	%Dev			
50	p	heptane	0.410	0.440	-7.3	141	0.00	10.25
51	p	trichloroethene	0.428	0.388	9.3	143	0.00	10.41
52	p	1,2-dichloropropane	0.408	0.456	-11.8	158	0.00	10.38
53	p	dibromomethane	0.208	0.209	-0.5	149	0.00	10.36
54	p	bromodichloromethane	0.537	0.499	7.1	140	0.00	10.46
55	p	Methylcyclohexane	0.503	0.659	-31.0#	166	0.00	10.92
56	p	2-chloroethyl vinyl ether	0.403	0.456	-13.2	158	0.00	10.38
57	p	methyl methacrylate	0.187	0.199	-6.4	144	0.00	10.55
			Amount	Calc.	%Drift			
58	p	1,4-dioxane	125.000	134.480	-7.2	75	0.00	10.56
59	p	cis-1,3-dichloropropene	50.000	56.161	-12.3	157	0.00	11.08
			AvgRF	CCRF	%Dev			
60	S	toluene-d8 (s)	1.199	1.242	-3.6	137	0.00	11.78

Continuing Calibration Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSN3391-CC3345
Lab FileID: N91773.D

61	p	4-methyl-2-pentanone	0.382	0.318	16.8	113	0.00	11.18
62	p	toluene	0.861	0.887	-3.0	156	0.00	11.85
63	p	trans-1,3-dichloropropene	0.417	0.467	-12.0	149	0.00	11.49
64	p	1,1,2-trichloroethane	0.277	0.273	1.4	156	0.00	11.67
65	p	ethyl methacrylate	0.355	0.360	-1.4	135	0.00	11.87
66	I	chlorobenzene-d5	1.000	1.000	0.0	132	0.00	13.24
67	p	tetrachloroethene	0.651	0.630	3.2	141	0.00	12.59
68	p	1,3-dichloropropane	0.942	1.034	-9.8	145	0.00	11.90
69	p	dibromochloromethane	0.673	0.668	0.7	137	0.00	12.19
70	p	1,2-dibromoethane	0.528	0.539	-2.1	141	0.00	12.45
71	p	2-hexanone	0.577	0.518	10.2	111	0.01	12.03
72	P	chlorobenzene	1.744	1.727	1.0	148	0.00	13.27
73	p	1,1,1,2-tetrachloroethane	0.635	0.607	4.4	135	0.00	13.19
74	p	ethylbenzene	3.250	3.266	-0.5	144	0.00	13.44
75	p	m,p-xylene	1.188	1.180	0.7	156	0.00	13.63
76	p	o-xylene	1.154	1.182	-2.4	154	0.00	14.04
77	p	styrene	1.674	1.898	-13.4	151	0.00	13.97
78	P	bromoform	0.392	0.365	6.9	129	0.00	13.80
		----------	Amount	Calc.	%Drift	----------		
79	p	trans-1,4-dichloro-2-bute	50.000	43.340	13.3	115	0.00	14.19
		----------	AvgRF	CCRF	%Dev	----------		
80	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	126	0.00	15.79
81	p	isopropylbenzene	3.544	3.964	-11.9	139	0.00	14.40
82	S	bromofluorobenzene (s)	1.219	1.189	2.5	120	0.00	14.46
83	p	bromobenzene	0.839	0.902	-7.5	141	0.00	14.69
		----------	Amount	Calc.	%Drift	----------		
84	P	1,1,2,2-tetrachloroethane	50.000	61.840	-23.7#	151	0.00	14.04
		----------	AvgRF	CCRF	%Dev	----------		
85	p	1,2,3-trichloropropane	0.857	0.980	-14.4	142	0.00	14.19
86	p	n-propylbenzene	4.538	5.239	-15.4	145	0.00	14.85
87	p	2-chlorotoluene	2.886	3.089	-7.0	139	0.00	14.97
88	p	4-chlorotoluene	3.049	3.162	-3.7	135	0.00	15.04
89	p	1,3,5-trimethylbenzene	3.558	3.370	5.3	130	0.00	15.12
90	p	tert-butylbenzene	2.089	2.155	-3.2	126	0.00	15.43
91	p	1,2,4-trimethylbenzene	3.527	3.457	2.0	134	0.00	15.53
92	M	sec-butylbenzene	3.987	4.421	-10.9	135	0.00	15.65
		----------	Amount	Calc.	%Drift	----------		
93	p	1,3-dichlorobenzene	50.000	52.592	-5.2	134	0.00	15.75
		----------	AvgRF	CCRF	%Dev	----------		
94	p	p-isopropyltoluene	3.258	3.568	-9.5	133	0.00	15.81
		----------	Amount	Calc.	%Drift	----------		
95	p	1,4-dichlorobenzene	50.000	57.411	-14.8	136	0.00	15.82
96	p	1,2-dichlorobenzene	50.000	52.880	-5.8	127	0.00	16.19
		----------	AvgRF	CCRF	%Dev	----------		
97	p	n-butylbenzene	3.380	3.733	-10.4	132	0.00	16.23
98	p	1,2-dibromo-3-chloropropa	0.135	0.127	5.9	111	0.00	16.67
99	p	1,2,4-trichlorobenzene	0.675	0.654	3.1	106	0.00	18.01
100	p	1,3,5-trichlorobenzene	1.045	1.047	-0.2	121	0.00	17.47
101	p	hexachlorobutadiene	0.529	0.476	10.0	107	0.00	18.30

Continuing Calibration Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSN3391-CC3345
Lab FileID: N91773.D

		Amount	Calc.	%Drift			
102 p	naphthalene	50.000	38.379	23.2#	87	0.00	18.29
103 p	1,2,3-trichlorobenzene	50.000	38.162	23.7#	83	0.00	18.49

		AvgRF	CCRF	%Dev			
104 p	2-methylnaphthalene	0.552	0.375	32.1#	159	0.00	19.66
105 p	1-methylnaphthalene	0.412	0.288	30.1#	161	0.00	19.91

(#) = Out of Range SPCC's out = 1 CCC's out = 0
N90397.D n140918w.m Mon Nov 03 12:36:45 2014

Initial Calibration Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSV1312-ICC1312
Lab FileID: V36199.D

Response Factor Report MSV

Method : C:\msdchem\1\METHODS\v141030w.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Fri Oct 31 10:16:40 2014
Response via : Initial Calibration

Calibration Files
0.25=v36193.D 0.5 =v36194.D 1 =v36195.D 2 =v36196.D
5 =v36197.D 10 =v36198.D 50 =v36199.D 100 =v36200.D
200 =v36201.D 400 =v36202.D = =

Compound	0.25	0.5	1	2	5	10	50	100	200	400	Avg	%RSD
1) I tert butyl alcohol-d9 ----------ISTD----------												
2) tertiary butyl alcohol												
			0.925	1.403	1.115	1.289	1.313	1.399	1.407		1.264	14.39
3) Ethanol												
			0.363	0.383	0.301	0.311	0.358	0.311	0.290		0.331	10.94
4) I pentafluorobenzene ----------ISTD----------												
5) dichlorodifluoromethane												
			0.502	0.586	0.952	1.017	1.048	1.072	1.035		0.888	26.90
---- Linear regression ---- Coefficient = 0.9994												
Response Ratio = -0.02755 + 1.05233 *A												
6) chloromethane												
			0.890	0.882	0.867	0.924	0.971	0.984	1.051	0.949	0.940	6.60
7) vinyl chloride												
			0.746	0.681	0.724	0.905	0.969	1.024	1.060	1.044	0.894	17.37
8) bromomethane												
			0.689	0.642	0.612	0.616	0.661	0.692	0.702	0.690	0.663	5.39
9) chloroethane												
			0.493	0.335	0.356	0.366	0.369	0.386	0.386	0.381	0.384	12.28
10) ethyl ether												
			0.298	0.328	0.301	0.259	0.282	0.324	0.302	0.297	0.299	7.32
11) acetonitrile												
			0.557	0.597	0.510	0.596	0.661	0.675	0.670		0.609	10.28
12) trichlorofluoromethane												
			0.723	0.637	0.716	1.066	1.141	1.204	1.231	1.253	0.996	26.07
---- Linear regression ---- Coefficient = 0.9988												
Response Ratio = -0.02088 + 1.23606 *A												
13) freon-113												
					0.571	0.547	0.661	0.709	0.724	0.752	0.661	12.77
14) acrolein												
					0.009	0.012	0.012	0.012	0.012	0.012	0.011#	8.98
15) 1,1-dichloroethene												
		0.512	0.435	0.364	0.455	0.475	0.416	0.459	0.492	0.508	0.519	0.463	10.49
16) acetone												
			0.046	0.045	0.039	0.042	0.044	0.045	0.043		0.043#	5.30
17) Methyl Acetate												
			0.152	0.150	0.120	0.130	0.133	0.136	0.130		0.136	8.45
18) methylene chloride												
			0.619	0.604	0.551	0.447	0.459	0.486	0.498	0.501	0.521	12.31
19) methyl tert butyl ether												
			0.644	0.750	0.697	0.617	0.730	0.789	0.867	0.884	0.747	12.90
20) acrylonitrile												

Initial Calibration Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSV1312-ICC1312
Lab FileID: V36199.D

```
                          0.074 0.081 0.072 0.085 0.088 0.091 0.087  0.083    8.71
21)  allyl chloride
                    0.494 0.557 0.597 0.510 0.595 0.660 0.675 0.670  0.595   11.92
22)  trans-1,2-dichloroethene
                    0.452 0.511 0.521 0.430 0.473 0.513 0.520 0.529  0.494    7.53
23)  iodomethane
                    1.268 1.326 1.339 1.094 1.186 1.278 1.313 1.319  1.265    6.69
24)  carbon disulfide
                    1.436 1.661 1.688 1.456 1.612 1.725 1.787 1.822  1.648    8.60
25)  propionitrile
                          0.019 0.021 0.028 0.028 0.030 0.029  0.026#  17.94
26)  vinyl acetate
                          0.912 0.771 0.917 0.951 1.000 0.970  0.920    8.71
27)  chloroprene
                          0.545 0.507 0.635 0.658 0.676 0.665  0.615   11.51
28)  di-isopropyl ether
                    1.082 1.219 1.251 1.096 1.308 1.384 1.421 1.363  1.266   10.08
29)  methacrylonitrile
                          0.106 0.118 0.109 0.127 0.131 0.142 0.134  0.124   10.75
30)  2-butanone
                          0.021 0.022 0.030 0.031 0.033 0.032  0.028#  19.01
31)  Hexane
                          0.267 0.311 0.303 0.373 0.381 0.378 0.371  0.341   13.47
32)  1,1-dichloroethane
           1.236 0.939 0.830 0.885 0.901 0.756 0.842 0.894 0.925 0.927  0.914   13.82
33)  tert-butyl ethyl ether
                          0.908 0.894 0.787 1.002 1.123 1.223 1.261  1.028   17.44
34)  isobutyl alcohol
                          0.182 0.182 0.154 0.183 0.190 0.200 0.194  0.184    7.95
35)  2,2-dichloropropane
                          0.595 0.517 0.647 0.722 0.783 0.826  0.682   17.20
36)  cis-1,2-dichloroethene
           0.654 0.591 0.479 0.548 0.543 0.457 0.515 0.542 0.561 0.563  0.545   10.18
37)  ethyl acetate
                          0.911 0.910 0.771 0.917 0.951 0.993 0.969  0.918    7.85
38)  bromochloromethane
                    0.258 0.290 0.279 0.238 0.264 0.272 0.289 0.282  0.271    6.45
39)  chloroform
                    0.911 0.977 0.961 0.791 0.874 0.904 0.959 0.948  0.915    6.67
40)  dibromofluoromethane (s)
           0.520 0.530 0.525 0.528 0.512 0.529 0.529 0.524 0.526 0.525  0.525    1.04
41)  Tetrahydrofuran
                          0.038 0.036 0.043 0.045 0.047 0.045  0.042#  10.60
42)  1,1,1-trichloroethane
                0.749 0.675 0.768 0.825 0.741 0.871 0.955 1.014 1.054  0.850   15.56

43) I   1,4-difluorobenzene   ----------------ISTD---------------------
44)  Cyclohexane
                          0.627 0.549 0.478 0.596 0.617 0.608 0.513  0.570   10.06
45)  carbon tetrachloride
                    0.340 0.417 0.478 0.421 0.543 0.587 0.599 0.516  0.488   18.63
46)  1,1-dichloropropene
                    0.262 0.317 0.361 0.303 0.383 0.389 0.388 0.329  0.341   13.62
47)  benzene
                1.233 1.047 1.087 1.149 0.921 1.086 1.112 1.193 0.985  1.091    8.97
48)  1,2-dichloroethane
                    0.352 0.358 0.362 0.286 0.334 0.337 0.365 0.289  0.335    9.39
49)  tert-amyl methyl ether
                          0.364 0.368 0.314 0.432 0.490 0.566        0.422   22.04
             ---- Quadratic regression ----  Coefficient =  0.9951
```

Initial Calibration Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSV1312-ICC1312
Lab FileID: V36199.D

```
              Response Ratio = 0.00036 + 0.34817 *A + 0.05843 *A^2

50)  heptane
                                  0.215 0.201 0.285 0.284 0.291 0.246  0.254   15.37
51)  trichloroethene
           0.426 0.390 0.315 0.338 0.360 0.315 0.340 0.360 0.366 0.347  0.356    9.50
52)  1,2-dichloropropane
                       0.300 0.298 0.321 0.280 0.301 0.308 0.318 0.302  0.304    4.21
53)  dibromomethane
                       0.139 0.150 0.151 0.134 0.143 0.146 0.153 0.138  0.144    4.82
54)  bromodichloromethane
                       0.311 0.344 0.344 0.298 0.346 0.369 0.392 0.362  0.346    8.77
55)  Methylcyclohexane
                                  0.345 0.372 0.468 0.503 0.504 0.510  0.450   16.22
56)  2-chloroethyl vinyl ether
                                  0.044 0.054 0.079 0.090 0.100 0.100  0.078   30.71
             ---- Linear regression ----  Coefficient =  0.9977
               Response Ratio = -0.00759 + 0.09905 *A

57)  methyl methacrylate
                                  0.067 0.061 0.077 0.083 0.089 0.082  0.076   13.93
58)  1,4-dioxane
                                        0.000 0.001 0.001 0.001 0.001  0.001#  48.30
             ---- Linear regression ----  Coefficient =  0.9986
               Response Ratio = -0.00070 + 0.00083 *A

59)  cis-1,3-dichloropropene
                  0.261 0.227 0.257 0.274 0.255 0.343 0.362 0.418        0.300   22.12
             ---- Quadratic regression ----  Coefficient =  0.9945
               Response Ratio = -0.00023 + 0.26729 *A + 0.04108 *A^2

60)  toluene-d8 (s)
           1.066 1.047 1.052 1.084 1.078 1.157 1.160 1.140 1.176 1.183  1.114    4.84
61)  4-methyl-2-pentanone
                                  0.103 0.111 0.141 0.134 0.158 0.131  0.130   15.39
62)  toluene
                  0.897 0.711 0.786 0.819 0.683 0.811 0.848 0.911 0.805  0.808    9.39
63)  trans-1,3-dichloropropene
                  0.172 0.157 0.178 0.189 0.175 0.248 0.278 0.308        0.213   26.62
             ---- Quadratic regression ----  Coefficient =  0.9926
               Response Ratio = -0.00028 + 0.18849 *A + 0.03389 *A^2

64)  1,1,2-trichloroethane
                  0.169 0.151 0.172 0.170 0.147 0.165 0.177 0.181 0.156  0.165    7.09
65)  ethyl methacrylate
                                  0.142 0.139 0.204 0.246 0.234 0.226  0.198   23.69
             ---- Linear regression ----  Coefficient =  0.9976
               Response Ratio = -0.01196 + 0.23214 *A


66) I   chlorobenzene-d5      ----------------ISTD---------------------
67)  tetrachloroethene
           1.113 0.952 0.725 0.817 0.895 0.750 0.844 0.965 0.984 0.918  0.896   13.04
68)  1,3-dichloropropane
                       0.698 0.710 0.697 0.576 0.627 0.698 0.719 0.705  0.679    7.39
69)  dibromochloromethane
                  0.567 0.464 0.536 0.550 0.439 0.607 0.643 0.710 0.778  0.588   18.69
70)  1,2-dibromoethane
                  0.444 0.476 0.446 0.454 0.358 0.446 0.463 0.480 0.515  0.454    9.38
71)  2-hexanone
```

Initial Calibration Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSV1312-ICC1312
Lab FileID: V36199.D

```
                    0.226 0.233 0.251 0.232 0.363 0.327 0.326 0.306  0.283   18.99
72)  chlorobenzene
                    2.426 2.460 2.507 2.028 2.167 2.246 2.239 2.025  2.262    8.31
73)  1,1,1,2-tetrachloroethane
                0.815 0.757 0.792 0.842 0.722 0.893 0.939 0.966 0.884  0.845    9.71
74)  ethylbenzene
                3.614 3.106 3.356 3.736 3.123 3.521 3.714 3.626 2.951  3.416    8.59
75)  m,p-xylene
                1.351 1.215 1.429 1.533 1.232 1.509 1.600 1.535 1.372  1.420    9.67
76)  o-xylene
                1.273 1.211 1.391 1.567 1.221 1.487 1.593 1.856 1.566  1.463   14.43
77)  styrene
                    1.632 2.047 2.341 1.836 2.278 2.324 2.656 2.206  2.165   14.80
78)  bromoform
                    0.210 0.244 0.237 0.192 0.267 0.308 0.384        0.263   24.83
           ---- Quadratic regression ----  Coefficient =  0.9995
             Response Ratio = -0.00026 + 0.22411 *A + 0.04023 *A^2

79)  trans-1,4-dichloro-2-butene
                                0.084 0.074 0.128 0.128 0.157 0.152  0.121   28.75
           ---- Linear regression ----  Coefficient =  0.9953
             Response Ratio = -0.01109 + 0.15175 *A


80) I   1,4-dichlorobenzene-d ----------------ISTD---------------------
81)  isopropylbenzene
                          2.361 3.231 2.620 3.597 3.369 3.113 2.340  2.947   17.12
82)  bromofluorobenzene (s)
         0.800 0.795 0.830 0.854 0.817 0.781 0.875 0.787 0.793 0.821  0.815    3.75
83)  bromobenzene
                    0.843 0.936 0.858 0.686 0.808 0.797 0.798 0.819  0.818    8.58
84)  1,1,2,2-tetrachloroethane
                    0.401 0.479 0.415 0.344 0.424 0.399 0.416 0.414  0.411    8.98
85)  1,2,3-trichloropropane
                                0.349 0.283 0.468 0.450 0.477 0.504  0.422   20.47
           ---- Linear regression ----  Coefficient =  0.9980
             Response Ratio = -0.02547 + 0.49365 *A

86)  n-propylbenzene
                    2.436 2.940 3.461 3.099 3.556 3.505 3.369 2.422  3.098   14.94
           ---- Quadratic regression ----  Coefficient =  0.9981
             Response Ratio = -0.04352 + 3.95655 *A + -0.18663 *A^2

87)  2-chlorotoluene
                    1.976 2.387 2.272 1.918 2.207 2.160 2.160 2.006  2.136    7.46
88)  4-chlorotoluene
                    2.246 2.612 2.774 2.140 2.447 2.452 2.347 2.222  2.405    8.82
89)  1,3,5-trimethylbenzene
                    2.024 2.399 2.911 2.299 2.844 2.897 2.744 2.227  2.543   13.63
90)  tert-butylbenzene
                          1.084 1.408 1.118 1.427 1.489 1.432 1.506  1.352   12.97
91)  1,2,4-trimethylbenzene
                    2.161 2.473 3.000 2.412 2.794 2.891 2.689 2.192  2.576   12.24
           ---- Quadratic regression ----  Coefficient =  0.9989
             Response Ratio = -0.02465 + 3.06442 *A + -0.10670 *A^2

92)  sec-butylbenzene
                          2.476 3.148 2.739 3.231 3.384 3.451 2.395  2.975   14.59
           ---- Quadratic regression ----  Coefficient =  0.9944
             Response Ratio = -0.08782 + 3.89028 *A + -0.17799 *A^2
```

Initial Calibration Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSV1312-ICC1312
Lab FileID: V36199.D

```
 93)  1,3-dichlorobenzene
                      1.716 1.800 1.863 1.481 1.638 1.653 1.733 1.607  1.686    7.06
 94)  p-isopropyltoluene
                            2.373 3.011 2.490 3.064 3.200 3.180 2.207  2.789   14.98
              ---- Quadratic regression ----  Coefficient =  0.9951
                Response Ratio = -0.08067 + 3.65065 *A + -0.17288 *A^2

 95)  1,4-dichlorobenzene
                      1.770 1.948 1.989 1.530 1.677 1.678 1.720 1.590  1.738    9.25
 96)  1,2-dichlorobenzene
                      1.584 1.697 1.677 1.356 1.494 1.664 1.536 1.385  1.549    8.45
 97)  n-butylbenzene
                            1.873 2.323 1.929 2.433 2.845 2.522 2.025  2.279   15.58
 98)  1,2-dibromo-3-chloropropane
                                     0.032 0.029 0.039 0.048 0.049 0.050  0.041#  22.87
              ---- Linear regression ----  Coefficient =  0.9974
                Response Ratio = -0.00303 + 0.04960 *A

 99)  1,3,5-trichlorobenzene
                      1.110 1.195 1.233 0.922 1.104 1.296 1.155 1.071  1.136   10.00
100)  1,2,4-trichlorobenzene
                      0.703 0.675 0.641 0.589 0.733 0.903 0.754 0.766  0.720   13.14
101)  hexachlorobutadiene
                      0.380 0.361 0.394 0.338 0.374 0.447 0.356 0.381  0.379    8.56
102)  naphthalene
                                     0.476 0.514 0.807 1.076 0.902 1.004  0.796   31.53
              ---- Linear regression ----  Coefficient =  0.9944
                Response Ratio = -0.06920 + 0.99107 *A

103)  1,2,3-trichlorobenzene
                      0.484 0.452 0.420 0.404 0.448 0.562 0.460 0.483  0.464   10.42
104)  2-Methylnaphthalene
                                          0.067 0.075 0.199 0.205 0.225  0.154   49.52
              ---- Quadratic regression ----  Coefficient =  0.9534
                Response Ratio = -0.00762 + 0.13457 *A + 0.02674 *A^2

105)  1-Methylnaphthalene
                                          0.059 0.055 0.157 0.144 0.143  0.112   44.81
              ---- Linear regression ----  Coefficient =  0.9774
                Response Ratio = -0.01272 + 0.14654 *A

 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           v141030w.m        Fri Oct 31 16:23:36 2014
```

Initial Calibration Verification

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSV1312-ICV1312
Lab FileID: V36211.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\V141031\v36211.D Vial: 3
Acq On : 31 Oct 2014 9:25 am Operator: amym
Sample : icv1312-50 Inst : MSV
Misc : MS33096,MSV1312,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\v141030w.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Fri Oct 31 10:16:40 2014
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	tert butyl alcohol-d9	500.000	500.000	0.0	137	-0.01	3.53
2	p	tertiary butyl alcohol	500.000	595.364	-19.1	160	-0.01	3.64
3	p	Ethanol	5000.000	4281.624	14.4	125	0.00	2.62
4	I	pentafluorobenzene	50.000	50.000	0.0	123	0.00	6.56
5	p	dichlorodifluoromethane	50.000	49.430	1.1	123	0.00	1.53
6	P	chloromethane	50.000	50.031	-0.1	120	0.00	1.67
7	p	vinyl chloride	50.000	50.850	-1.7	116	0.00	1.78
8	p	bromomethane	50.000	48.577	2.8	120	0.00	2.07
9	p	chloroethane	50.000	53.669	-7.3	138	0.00	2.14
10	p	ethyl ether	50.000	44.052	11.9	115	0.00	2.61
11	p	acetonitrile	50.000	61.435	-22.9	155	0.00	3.30
12	p	trichlorofluoromethane	50.000	42.557	14.9	112	0.00	2.36
13	p	freon-113	50.000	53.415	-6.8	132	-0.02	2.93
14	p	acrolein	250.000	356.730	-42.7#	164	0.00	2.77
15	p	1,1-dichloroethene	50.000	59.183	-18.4	147	0.00	2.87
16	p	acetone	50.000	52.971	-5.9	134	0.00	2.91
17	p	Methyl Acetate	50.000	62.542	-25.1	161	0.00	3.28
18	p	methylene chloride	50.000	53.797	-7.6	151	0.00	3.47
19	p	methyl tert butyl ether	50.000	55.204	-10.4	140	-0.01	3.85
20	p	acrylonitrile	50.000	59.778	-19.6	143	0.00	3.78
21	p	allyl chloride	50.000	62.591	-25.2	154	0.00	3.30
22	p	trans-1,2-dichloroethene	50.000	59.368	-18.7	153	0.00	3.84
23	p	iodomethane	50.000	52.548	-5.1	138	0.00	3.04
24	p	carbon disulfide	50.000	57.664	-15.3	146	0.00	3.12
25	p	propionitrile	50.000	60.176	-20.4	137	0.00	5.65
26	p	vinyl acetate	50.000	54.976	-10.0	136	0.00	4.59
27	p	chloroprene	50.000	63.316	-26.6	151	0.00	4.62
28	p	di-isopropyl ether	50.000	61.475	-23.0	147	-0.01	4.61
29	p	methacrylonitrile	50.000	57.665	-15.3	139	0.00	5.92
30	p	2-butanone	50.000	53.353	-6.7	124	0.00	5.53
31	p	Hexane	50.000	57.059	-14.1	129	0.00	4.25
32	P	1,1-dichloroethane	50.000	56.625	-13.3	152	0.00	4.51
33	p	tert-butyl ethyl ether	50.000	60.207	-20.4	153	-0.01	5.28
34	p	isobutyl alcohol	250.000	275.336	-10.1	136	0.00	4.59
35	p	2,2-dichloropropane	50.000	58.833	-17.7	153	-0.01	5.55
36	p	cis-1,2-dichloroethene	50.000	56.208	-12.4	147	0.00	5.53
37	p	ethyl acetate	50.000	55.047	-10.1	136	0.00	4.58
38	p	bromochloromethane	50.000	55.051	-10.1	140	0.00	5.95
39	p	chloroform	50.000	53.904	-7.8	139	0.00	6.17
40	S	dibromofluoromethane (s)	50.000	49.735	0.5	122	0.00	6.44
41	p	Tetrahydrofuran	50.000	60.255	-20.5	146	0.00	5.96

Initial Calibration Verification

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSV1312-ICV1312
Lab FileID: V36211.D

42	p	1,1,1-trichloroethane	50.000	58.835	-17.7	142	-0.01	6.42
43	I	1,4-difluorobenzene	50.000	50.000	0.0	129	0.00	7.74
44	p	Cyclohexane	50.000	58.382	-16.8	144	0.00	6.52
45	p	carbon tetrachloride	50.000	60.453	-20.9	141	0.00	6.67
46	p	1,1-dichloropropene	50.000	62.438	-24.9	144	0.00	6.68
47	p	benzene	50.000	56.205	-12.4	146	0.00	7.00
48	p	1,2-dichloroethane	50.000	52.178	-4.4	136	0.00	7.13
		----------	Amount	Calc.	%Drift	----------		
49	p	tert-amyl methyl ether	50.000	61.802	-23.6	156	0.00	7.29
		----------	Amount	Calc.	%Drift	----------		
50	p	heptane	50.000	61.136	-22.3	141	0.00	7.56
51	p	trichloroethene	50.000	53.983	-8.0	146	0.00	8.03
52	p	1,2-dichloropropane	50.000	60.349	-20.7	158	0.00	8.38
53	p	dibromomethane	50.000	57.098	-14.2	149	0.00	8.49
54	p	bromodichloromethane	50.000	60.017	-20.0	155	0.00	8.74
55	p	Methylcyclohexane	50.000	59.571	-19.1	148	0.00	8.34
56	p	2-chloroethyl vinyl ether	50.000	60.924	-21.8	184	0.00	9.11
57	p	methyl methacrylate	50.000	64.281	-28.6	166	0.00	8.51
58	p	1,4-dioxane	250.000	364.650	-45.9#	198	0.00	8.51
		----------	Amount	Calc.	%Drift	----------		
59	p	cis-1,3-dichloropropene	50.000	68.445	-36.9#	167	0.00	9.26
		----------	Amount	Calc.	%Drift	----------		
60	S	toluene-d8 (s)	50.000	52.094	-4.2	130	0.00	9.55
61	p	4-methyl-2-pentanone	50.000	55.015	-10.0	131	0.00	9.45
62	p	toluene	50.000	56.406	-12.8	145	0.00	9.63
		----------	Amount	Calc.	%Drift	----------		
63	p	trans-1,3-dichloropropene	50.000	69.630	-39.3#	171	0.00	9.92
		----------	Amount	Calc.	%Drift	----------		
64	p	1,1,2-trichloroethane	50.000	60.722	-21.4	157	0.00	10.12
65	p	ethyl methacrylate	50.000	51.876	-3.8	145	0.00	10.00
66	I	chlorobenzene-d5	50.000	50.000	0.0	135	0.00	11.08
67	p	tetrachloroethene	50.000	53.182	-6.4	153	0.00	10.18
68	p	1,3-dichloropropane	50.000	54.706	-9.4	160	0.00	10.28
69	p	dibromochloromethane	50.000	59.906	-19.8	157	0.00	10.50
70	p	1,2-dibromoethane	50.000	56.738	-13.5	156	0.00	10.61
71	p	2-hexanone	50.000	47.793	4.4	101	0.00	10.35
72	P	chlorobenzene	50.000	54.965	-9.9	155	0.00	11.11
73	p	1,1,1,2-tetrachloroethane	50.000	54.703	-9.4	140	0.00	11.21
74	p	ethylbenzene	50.000	57.741	-15.5	151	0.00	11.21
75	p	m,p-xylene	100.000	115.087	-15.1	146	0.00	11.34
76	p	o-xylene	50.000	56.756	-13.5	151	0.00	11.71
77	p	styrene	50.000	59.524	-19.0	153	0.00	11.73
		----------	Amount	Calc.	%Drift	----------		
78	P	bromoform	50.000	58.838	-17.7	162	0.00	11.91
79	p	trans-1,4-dichloro-2-bute	50.000	42.305	15.4	124	0.00	12.12
		----------	Amount	Calc.	%Drift	----------		
80	I	1,4-dichlorobenzene-d4	50.000	50.000	0.0	126	0.00	13.29
81	p	isopropylbenzene	50.000	63.001	-26.0	130	0.00	12.06
82	S	bromofluorobenzene (s)	50.000	50.592	-1.2	119	0.00	12.23

Initial Calibration Verification

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSV1312-ICV1312
Lab FileID: V36211.D

				Amount	Calc.	%Drift			
83	p	bromobenzene		50.000	56.596	-13.2	144	0.00	12.35
84	P	1,1,2,2-tetrachloroethane		50.000	58.378	-16.8	143	0.00	12.36
85	p	1,2,3-trichloropropane		50.000	54.621	-9.2	138	0.00	12.40
			Amount	Calc.	%Drift				
86	p	n-propylbenzene		50.000	56.481	-13.0	148	0.00	12.45
			Amount	Calc.	%Drift				
87	p	2-chlorotoluene		50.000	59.694	-19.4	145	0.00	12.53
88	p	4-chlorotoluene		50.000	59.329	-18.7	147	0.00	12.64
89	p	1,3,5-trimethylbenzene		50.000	63.848	-27.7	144	0.00	12.62
90	p	tert-butylbenzene		50.000	58.069	-16.1	138	0.00	12.91
			Amount	Calc.	%Drift				
91	p	1,2,4-trimethylbenzene		50.000	58.953	-17.9	155	0.00	12.96
92	p	sec-butylbenzene		50.000	53.506	-7.0	151	0.00	13.11
			Amount	Calc.	%Drift				
93	p	1,3-dichlorobenzene		50.000	56.240	-12.5	146	0.00	13.22
			Amount	Calc.	%Drift				
94	p	p-isopropyltoluene		50.000	54.814	-9.6	152	0.00	13.25
			Amount	Calc.	%Drift				
95	p	1,4-dichlorobenzene		50.000	53.511	-7.0	139	0.00	13.31
96	p	1,2-dichlorobenzene		50.000	54.754	-9.5	143	0.00	13.63
97	p	n-butylbenzene		50.000	63.942	-27.9	151	0.00	13.61
98	p	1,2-dibromo-3-chloropropa		50.000	50.948	-1.9	153	0.00	14.33
99	p	1,3,5-trichlorobenzene		50.000	58.900	-17.8	152	0.00	14.50
100	p	1,2,4-trichlorobenzene		50.000	62.079	-24.2	153	0.00	15.05
101	p	hexachlorobutadiene		50.000	61.623	-23.2	157	0.00	15.17
102	p	naphthalene		50.000	61.271	-22.5	178	0.00	15.28
103	p	1,2,3-trichlorobenzene		50.000	62.645	-25.3	163	0.00	15.47
			Amount	Calc.	%Drift				
104	p	2-Methylnaphthalene		25.000	56.346	-125.4#	595	0.00	16.28
105	p	1-Methylnaphthalene		25.000	51.660	-106.6#	631	0.00	16.45

(#) = Out of Range SPCC's out = 0 CCC's out = 0
v36199.D v141030w.m Fri Oct 31 16:25:08 2014

Continuing Calibration Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSV1313-CC1312
Lab FileID: V36237.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\V141031\v36237.D Vial: 29
Acq On : 31 Oct 2014 8:57 pm Operator: amym
Sample : cc1312-50 Inst : MSV
Misc : MS33109,MSV1313,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\v141030w.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Fri Oct 31 10:16:40 2014
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	tert butyl alcohol-d9	1.000	1.000	0.0	99	-0.02	3.53
2	p	tertiary butyl alcohol	1.264	1.266	-0.2	98	-0.01	3.64
3	p	Ethanol	0.331	0.284	14.2	91	0.00	2.61
4	I	pentafluorobenzene	1.000	1.000	0.0	110	0.00	6.56
		----------	Amount	Calc.	%Drift	----------		
5	p	dichlorodifluoromethane	50.000	41.762	16.5	92	0.00	1.53
		----------	AvgRF	CCRF	%Dev	----------		
6	P	chloromethane	0.940	0.799	15.0	91	0.00	1.66
7	p	vinyl chloride	0.894	0.771	13.8	87	0.00	1.77
8	p	bromomethane	0.663	0.541	18.4	90	0.00	2.06
9	p	chloroethane	0.384	0.311	19.0	93	0.01	2.14
10	p	ethyl ether	0.299	0.233	22.1#	91	0.00	2.61
11	p	acetonitrile	0.609	0.671	-10.2	124	0.00	3.30
		----------	Amount	Calc.	%Drift	----------		
12	p	trichlorofluoromethane	50.000	40.734	18.5	95	0.00	2.36
		----------	AvgRF	CCRF	%Dev	----------		
13	p	freon-113	0.661	0.695	-5.1	116	-0.02	2.93
14	p	acrolein	0.011	0.015#	-36.4#	131	0.00	2.77
15	p	1,1-dichloroethene	0.463	0.480	-3.7	115	0.00	2.87
16	p	acetone	0.043	0.027#	37.2#	71	0.00	2.91
17	p	Methyl Acetate	0.136	0.148	-8.8	126	0.00	3.28
18	p	methylene chloride	0.521	0.497	4.6	119	0.00	3.47
19	p	methyl tert butyl ether	0.747	0.712	4.7	107	0.00	3.85
20	p	acrylonitrile	0.083	0.097	-16.9	124	0.00	3.79
21	p	allyl chloride	0.595	0.671	-12.8	124	0.00	3.30
22	p	trans-1,2-dichloroethene	0.494	0.495	-0.2	115	0.00	3.84
23	p	iodomethane	1.265	1.170	7.5	108	0.00	3.04
24	p	carbon disulfide	1.648	1.760	-6.8	120	0.00	3.13
25	p	propionitrile	0.026	0.029#	-11.5	115	0.00	5.65
26	p	vinyl acetate	0.920	1.032	-12.2	124	0.00	4.59
27	p	chloroprene	0.615	0.660	-7.3	114	0.00	4.63
28	p	di-isopropyl ether	1.266	1.473	-16.4	124	0.00	4.61
29	p	methacrylonitrile	0.124	0.144	-16.1	125	0.00	5.92
30	p	2-butanone	0.028	0.022#	21.4#	82	0.00	5.54
31	p	Hexane	0.341	0.417	-22.3#	123	0.00	4.26
32	P	1,1-dichloroethane	0.914	0.892	2.4	117	0.00	4.51
33	p	tert-butyl ethyl ether	1.028	1.021	0.7	112	0.00	5.28

Continuing Calibration Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSV1313-CC1312
Lab FileID: V36237.D

34	p	isobutyl alcohol	0.184	0.206	-12.0	124	0.00	4.59
35	p	2,2-dichloropropane	0.682	0.652	4.4	111	0.00	5.55
36	p	cis-1,2-dichloroethene	0.545	0.533	2.2	114	0.00	5.54
37	p	ethyl acetate	0.918	1.030	-12.2	124	0.00	4.59
38	p	bromochloromethane	0.271	0.269	0.7	112	0.00	5.96
39	p	chloroform	0.915	0.897	2.0	113	0.00	6.17
40	S	dibromofluoromethane (s)	0.525	0.535	-1.9	111	0.00	6.44
41	p	Tetrahydrofuran	0.042	0.049#	-16.7	125	0.00	5.96
42	p	1,1,1-trichloroethane	0.850	0.867	-2.0	109	0.00	6.42
43	I	1,4-difluorobenzene	1.000	1.000	0.0	117	0.00	7.75
44	p	Cyclohexane	0.570	0.613	-7.5	120	0.00	6.53
45	p	carbon tetrachloride	0.488	0.510	-4.5	110	0.00	6.67
46	p	1,1-dichloropropene	0.341	0.367	-7.6	112	0.00	6.69
47	p	benzene	1.091	1.103	-1.1	119	0.00	7.01
48	p	1,2-dichloroethane	0.335	0.331	1.2	116	0.00	7.13
		----------	Amount	Calc.	%Drift	----------		
49	p	tert-amyl methyl ether	50.000	49.721	0.6	109	0.00	7.29
		----------	AvgRF	CCRF	%Dev	----------		
50	p	heptane	0.254	0.314	-23.6#	129	0.00	7.56
51	p	trichloroethene	0.356	0.336	5.6	116	0.00	8.04
52	p	1,2-dichloropropane	0.304	0.326	-7.2	127	0.00	8.39
53	p	dibromomethane	0.144	0.151	-4.9	123	0.00	8.49
54	p	bromodichloromethane	0.346	0.363	-4.9	122	0.00	8.74
55	p	Methylcyclohexane	0.450	0.464	-3.1	116	0.00	8.34
		----------	Amount	Calc.	%Drift	----------		
56	p	2-chloroethyl vinyl ether	50.000	46.300	7.4	124	0.00	9.12
		----------	AvgRF	CCRF	%Dev	----------		
57	p	methyl methacrylate	0.076	0.084	-10.5	128	0.00	8.52
		----------	Amount	Calc.	%Drift	----------		
58	p	1,4-dioxane	250.000	196.503	21.4#	89	-0.01	8.50
59	p	cis-1,3-dichloropropene	50.000	58.593	-17.2	126	0.00	9.27
		----------	AvgRF	CCRF	%Dev	----------		
60	S	toluene-d8 (s)	1.114	1.161	-4.2	117	0.00	9.56
61	p	4-methyl-2-pentanone	0.130	0.131	-0.8	108	0.00	9.45
62	p	toluene	0.808	0.811	-0.4	117	0.00	9.63
		----------	Amount	Calc.	%Drift	----------		
63	p	trans-1,3-dichloropropene	50.000	56.786	-13.6	121	0.00	9.92
		----------	AvgRF	CCRF	%Dev	----------		
64	p	1,1,2-trichloroethane	0.165	0.183	-10.9	129	0.00	10.12
		----------	Amount	Calc.	%Drift	----------		
65	p	ethyl methacrylate	50.000	48.238	3.5	121	0.00	10.00
		----------	AvgRF	CCRF	%Dev	----------		
66	I	chlorobenzene-d5	1.000	1.000	0.0	122	0.00	11.08
67	p	tetrachloroethene	0.896	0.823	8.1	119	0.00	10.18
68	p	1,3-dichloropropane	0.679	0.691	-1.8	134	0.00	10.29
69	p	dibromochloromethane	0.588	0.591	-0.5	118	0.00	10.51
70	p	1,2-dibromoethane	0.454	0.449	1.1	122	0.00	10.61
71	p	2-hexanone	0.283	0.212	25.1#	71	0.00	10.36

Continuing Calibration Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSV1313-CC1312
Lab FileID: V36237.D

72	P	chlorobenzene	2.262	2.158	4.6	121	0.00	11.11
73	p	1,1,1,2-tetrachloroethane	0.845	0.797	5.7	109	0.00	11.21
74	p	ethylbenzene	3.416	3.476	-1.8	120	0.00	11.21
75	p	m,p-xylene	1.420	1.415	0.4	114	0.00	11.35
76	p	o-xylene	1.463	1.433	2.1	117	0.00	11.71
77	p	styrene	2.165	2.203	-1.8	118	0.00	11.73
			Amount	Calc.	%Drift			
78	P	bromoform	50.000	48.337	3.3	116	0.00	11.91
79	p	trans-1,4-dichloro-2-bute	50.000	29.700	40.6#	75	0.00	12.12
			AvgRF	CCRF	%Dev			
80	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	110	0.00	13.29
81	p	isopropylbenzene	2.947	3.294	-11.8	100	0.00	12.06
82	S	bromofluorobenzene (s)	0.815	0.846	-3.8	106	0.00	12.23
83	p	bromobenzene	0.818	0.823	-0.6	112	0.00	12.35
84	P	1,1,2,2-tetrachloroethane	0.411	0.450	-9.5	116	0.00	12.36
			Amount	Calc.	%Drift			
85	p	1,2,3-trichloropropane	50.000	39.581	20.8#	86	0.00	12.41
86	p	n-propylbenzene	50.000	49.112	1.8	113	0.00	12.45
			AvgRF	CCRF	%Dev			
87	p	2-chlorotoluene	2.136	2.260	-5.8	112	0.00	12.53
88	p	4-chlorotoluene	2.405	2.584	-7.4	116	0.00	12.64
89	p	1,3,5-trimethylbenzene	2.543	2.959	-16.4	114	0.00	12.62
90	p	tert-butylbenzene	1.352	1.431	-5.8	110	0.00	12.91
			Amount	Calc.	%Drift			
91	p	1,2,4-trimethylbenzene	50.000	50.612	-1.2	116	0.00	12.96
92	p	sec-butylbenzene	50.000	47.428	5.1	117	0.00	13.11
			AvgRF	CCRF	%Dev			
93	p	1,3-dichlorobenzene	1.686	1.674	0.7	112	0.00	13.22
			Amount	Calc.	%Drift			
94	p	p-isopropyltoluene	50.000	47.184	5.6	115	0.00	13.25
			AvgRF	CCRF	%Dev			
95	p	1,4-dichlorobenzene	1.738	1.664	4.3	109	0.00	13.31
96	p	1,2-dichlorobenzene	1.549	1.529	1.3	112	0.00	13.63
97	p	n-butylbenzene	2.279	2.520	-10.6	114	0.00	13.62
			Amount	Calc.	%Drift			
98	p	1,2-dibromo-3-chloropropa	50.000	43.916	12.2	114	0.00	14.33
			AvgRF	CCRF	%Dev			
99	p	1,3,5-trichlorobenzene	1.136	1.089	4.1	108	0.00	14.50
100	p	1,2,4-trichlorobenzene	0.720	0.757	-5.1	113	0.00	15.05
101	p	hexachlorobutadiene	0.379	0.378	0.3	111	0.00	15.17
			Amount	Calc.	%Drift			
102	p	naphthalene	50.000	45.131	9.7	112	0.00	15.29
			AvgRF	CCRF	%Dev			
103	p	1,2,3-trichlorobenzene	0.464	0.489	-5.4	120	0.00	15.47
			Amount	Calc.	%Drift			
104	p	2-Methylnaphthalene	25.000	26.281	-5.1	205	0.00	16.28

Continuing Calibration Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSV1313-CC1312
Lab FileID: V36237.D

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105 p   1-Methylnaphthalene        25.000  25.690     -2.8  248   0.00   16.45
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    (#) = Out of Range              SPCC's out = 5  CCC's out = 0
     v36199.D   v141030w.m       Sun Nov 02 09:24:38 2014
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Continuing Calibration Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSV1314-CC1312
Lab FileID: V36267.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\V141102\v36267.D Vial: 2
Acq On : 2 Nov 2014 8:44 am Operator: amym
Sample : cc1312-50 Inst : MSV
Misc : MS33114,MSV1314,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\v141030w.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Fri Oct 31 10:16:40 2014
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	tert butyl alcohol-d9	1.000	1.000	0.0	95	0.00	3.55
2	p	tertiary butyl alcohol	1.264	1.195	5.5	88	0.01	3.66
3	p	Ethanol	0.331	0.262	20.8#	80	0.02	2.63
4	I	pentafluorobenzene	1.000	1.000	0.0	105	0.02	6.59
			Amount	Calc.	%Drift			
5	p	dichlorodifluoromethane	50.000	34.501	31.0#	72	0.00	1.54
			AvgRF	CCRF	%Dev			
6	P	chloromethane	0.940	0.752	20.0	81	0.00	1.67
7	p	vinyl chloride	0.894	0.685	23.4#	74	0.00	1.78
8	p	bromomethane	0.663	0.498	24.9#	79	0.00	2.07
9	p	chloroethane	0.384	0.268	30.2#	76	0.00	2.14
10	p	ethyl ether	0.299	0.204	31.8#	76	0.02	2.62
11	p	acetonitrile	0.609	0.647	-6.2	113	0.02	3.32
			Amount	Calc.	%Drift			
12	p	trichlorofluoromethane	50.000	35.013	30.0#	77	0.00	2.37
			AvgRF	CCRF	%Dev			
13	p	freon-113	0.661	0.617	6.7	98	-0.01	2.94
14	p	acrolein	0.011	0.012#	-9.1	104	0.03	2.79
15	p	1,1-dichloroethene	0.463	0.425	8.2	97	0.01	2.89
16	p	acetone	0.043	0.040#	7.0	99	0.02	2.93
17	p	Methyl Acetate	0.136	0.134	1.5	108	0.02	3.30
18	p	methylene chloride	0.521	0.455	12.7	104	0.02	3.49
19	p	methyl tert butyl ether	0.747	0.632	15.4	91	0.01	3.87
20	p	acrylonitrile	0.083	0.089	-7.2	108	0.03	3.81
21	p	allyl chloride	0.595	0.646	-8.6	113	0.02	3.32
22	p	trans-1,2-dichloroethene	0.494	0.484	2.0	107	0.02	3.86
23	p	iodomethane	1.265	1.063	16.0	94	0.01	3.06
24	p	carbon disulfide	1.648	1.637	0.7	106	0.02	3.14
25	p	propionitrile	0.026	0.028#	-7.7	103	0.03	5.68
26	p	vinyl acetate	0.920	0.997	-8.4	114	0.02	4.61
27	p	chloroprene	0.615	0.646	-5.0	106	0.03	4.66
28	p	di-isopropyl ether	1.266	1.362	-7.6	109	0.02	4.64
29	p	methacrylonitrile	0.124	0.127	-2.4	105	0.03	5.95
30	p	2-butanone	0.028	0.028#	0.0	99	0.03	5.57
31	p	Hexane	0.341	0.383	-12.3	107	0.03	4.28
32	P	1,1-dichloroethane	0.914	0.875	4.3	109	0.03	4.54
33	p	tert-butyl ethyl ether	1.028	0.907	11.8	95	0.02	5.31

Continuing Calibration Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSV1314-CC1312
Lab FileID: V36267.D

34	p	isobutyl alcohol	0.184	0.199	-8.2	114	0.02	4.61
35	p	2,2-dichloropropane	0.682	0.687	-0.7	111	0.02	5.58
36	p	cis-1,2-dichloroethene	0.545	0.517	5.1	105	0.03	5.56
37	p	ethyl acetate	0.918	0.996	-8.5	114	0.02	4.61
38	p	bromochloromethane	0.271	0.263	3.0	104	0.03	5.98
39	p	chloroform	0.915	0.894	2.3	107	0.03	6.20
40	S	dibromofluoromethane (s)	0.525	0.539	-2.7	106	0.02	6.47
41	p	Tetrahydrofuran	0.042	0.043#	-2.4	103	0.03	5.99
42	p	1,1,1-trichloroethane	0.850	0.879	-3.4	105	0.02	6.44
43	I	1,4-difluorobenzene	1.000	1.000	0.0	104	0.02	7.77
44	p	Cyclohexane	0.570	0.579	-1.6	102	0.02	6.55
45	p	carbon tetrachloride	0.488	0.574	-17.6	110	0.02	6.70
46	p	1,1-dichloropropene	0.341	0.370	-8.5	101	0.02	6.71
47	p	benzene	1.091	1.089	0.2	105	0.02	7.03
48	p	1,2-dichloroethane	0.335	0.335	0.0	105	0.02	7.15
		---------- Amount	Calc.	%Drift	----------			
49	p	tert-amyl methyl ether	50.000	48.499	3.0	95	0.02	7.32
		---------- AvgRF	CCRF	%Dev	----------			
50	p	heptane	0.254	0.297	-16.9	109	0.02	7.58
51	p	trichloroethene	0.356	0.335	5.9	103	0.02	8.06
52	p	1,2-dichloropropane	0.304	0.318	-4.6	110	0.02	8.40
53	p	dibromomethane	0.144	0.146	-1.4	107	0.02	8.51
54	p	bromodichloromethane	0.346	0.372	-7.5	112	0.02	8.76
55	p	Methylcyclohexane	0.450	0.446	0.9	100	0.02	8.36
		---------- Amount	Calc.	%Drift	----------			
56	p	2-chloroethyl vinyl ether	50.000	39.214	21.6#	92	0.02	9.13
		---------- AvgRF	CCRF	%Dev	----------			
57	p	methyl methacrylate	0.076	0.074	2.6	101	0.02	8.54
		---------- Amount	Calc.	%Drift	----------			
58	p	1,4-dioxane	250.000	220.837	11.7	92	0.00	8.52
59	p	cis-1,3-dichloropropene	50.000	56.734	-13.5	108	0.01	9.28
		---------- AvgRF	CCRF	%Dev	----------			
60	S	toluene-d8 (s)	1.114	1.146	-2.9	103	0.01	9.57
61	p	4-methyl-2-pentanone	0.130	0.127	2.3	94	0.02	9.47
62	p	toluene	0.808	0.782	3.2	101	0.01	9.65
		---------- Amount	Calc.	%Drift	----------			
63	p	trans-1,3-dichloropropene	50.000	54.894	-9.8	104	0.01	9.93
		---------- AvgRF	CCRF	%Dev	----------			
64	p	1,1,2-trichloroethane	0.165	0.170	-3.0	107	0.01	10.14
		---------- Amount	Calc.	%Drift	----------			
65	p	ethyl methacrylate	50.000	42.920	14.2	96	0.02	10.01
		---------- AvgRF	CCRF	%Dev	----------			
66	I	chlorobenzene-d5	1.000	1.000	0.0	104	0.01	11.09
67	p	tetrachloroethene	0.896	0.840	6.3	104	0.01	10.20
68	p	1,3-dichloropropane	0.679	0.657	3.2	109	0.01	10.30
69	p	dibromochloromethane	0.588	0.631	-7.3	109	0.01	10.52
70	p	1,2-dibromoethane	0.454	0.427	5.9	100	0.01	10.63
71	p	2-hexanone	0.283	0.305	-7.8	88	0.02	10.37

Continuing Calibration Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSV1314-CC1312
Lab FileID: V36267.D

72	P	chlorobenzene	2.262	2.164	4.3	104	0.01	11.12
73	p	1,1,1,2-tetrachloroethane	0.845	0.879	-4.0	103	0.01	11.22
74	p	ethylbenzene	3.416	3.536	-3.5	105	0.01	11.23
75	p	m,p-xylene	1.420	1.436	-1.1	99	0.01	11.36
76	p	o-xylene	1.463	1.462	0.1	103	0.01	11.73
77	p	styrene	2.165	2.210	-2.1	101	0.01	11.75
			Amount	Calc.	%Drift			
78	P	bromoform	50.000	55.092	-10.2	116	0.01	11.92
79	p	trans-1,4-dichloro-2-bute	50.000	33.637	32.7#	74	0.01	12.14
			AvgRF	CCRF	%Dev			
80	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	102	0.01	13.30
81	p	isopropylbenzene	2.947	3.151	-6.9	89	0.01	12.08
82	S	bromofluorobenzene (s)	0.815	0.802	1.6	93	0.01	12.24
83	p	bromobenzene	0.818	0.767	6.2	97	0.01	12.37
84	P	1,1,2,2-tetrachloroethane	0.411	0.408	0.7	98	0.01	12.37
			Amount	Calc.	%Drift			
85	p	1,2,3-trichloropropane	50.000	45.336	9.3	92	0.01	12.41
86	p	n-propylbenzene	50.000	46.624	6.8	100	0.01	12.47
			AvgRF	CCRF	%Dev			
87	p	2-chlorotoluene	2.136	2.152	-0.7	100	0.01	12.54
88	p	4-chlorotoluene	2.405	2.480	-3.1	103	0.01	12.66
89	p	1,3,5-trimethylbenzene	2.543	2.867	-12.7	103	0.00	12.63
90	p	tert-butylbenzene	1.352	1.433	-6.0	102	0.01	12.92
			Amount	Calc.	%Drift			
91	p	1,2,4-trimethylbenzene	50.000	49.135	1.7	105	0.01	12.97
92	p	sec-butylbenzene	50.000	45.733	8.5	105	0.00	13.12
			AvgRF	CCRF	%Dev			
93	p	1,3-dichlorobenzene	1.686	1.620	3.9	101	0.01	13.23
			Amount	Calc.	%Drift			
94	p	p-isopropyltoluene	50.000	45.958	8.1	104	0.01	13.26
			AvgRF	CCRF	%Dev			
95	p	1,4-dichlorobenzene	1.738	1.615	7.1	98	0.01	13.33
96	p	1,2-dichlorobenzene	1.549	1.470	5.1	100	0.01	13.64
97	p	n-butylbenzene	2.279	2.477	-8.7	104	0.01	13.63
			Amount	Calc.	%Drift			
98	p	1,2-dibromo-3-chloropropa	50.000	43.943	12.1	106	0.01	14.34
			AvgRF	CCRF	%Dev			
99	p	1,3,5-trichlorobenzene	1.136	1.070	5.8	99	0.01	14.51
100	p	1,2,4-trichlorobenzene	0.720	0.703	2.4	98	0.01	15.06
101	p	hexachlorobutadiene	0.379	0.371	2.1	101	0.01	15.19
			Amount	Calc.	%Drift			
102	p	naphthalene	50.000	39.265	21.5#	90	0.01	15.30
			AvgRF	CCRF	%Dev			
103	p	1,2,3-trichlorobenzene	0.464	0.424	8.6	97	0.01	15.49
			Amount	Calc.	%Drift			
104	p	2-Methylnaphthalene	25.000	11.974	52.1#	71	0.01	16.30

Continuing Calibration Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSV1314-CC1312
Lab FileID: V36267.D

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105 p   1-Methylnaphthalene        25.000   9.769     60.9#  59   0.01   16.47
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    (#) = Out of Range              SPCC's out = 5  CCC's out = 0
     v36199.D   v141030w.m       Sun Nov 02 09:32:59 2014
```

Continuing Calibration Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSV1314-CC1312
Lab FileID: V36291.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\V141102\v36291.D Vial: 2
Acq On : 3 Nov 2014 9:04 am Operator: amym
Sample : cc1312-50 Inst : MSV
Misc : MS33115,MSV1314,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\v141030w.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Fri Oct 31 10:16:40 2014
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	tert butyl alcohol-d9	1.000	1.000	0.0	113	-0.02	3.52
2	p	tertiary butyl alcohol	1.264	1.164	7.9	102	-0.02	3.63
3	p	Ethanol	0.331	0.237	28.4#	86	0.00	2.61
4	I	pentafluorobenzene	1.000	1.000	0.0	105	0.00	6.56
			Amount	Calc.	%Drift			
5	p	dichlorodifluoromethane	50.000	46.562	6.9	98	0.00	1.52
			AvgRF	CCRF	%Dev			
6	P	chloromethane	0.940	0.771	18.0	83	-0.02	1.65
7	p	vinyl chloride	0.894	0.737	17.6	80	-0.02	1.76
8	p	bromomethane	0.663	0.519	21.7#	82	-0.01	2.05
9	p	chloroethane	0.384	0.287	25.3#	82	0.00	2.12
10	p	ethyl ether	0.299	0.213	28.8#	79	0.00	2.60
11	p	acetonitrile	0.609	0.606	0.5	107	-0.01	3.29
			Amount	Calc.	%Drift			
12	p	trichlorofluoromethane	50.000	39.548	20.9#	88	-0.01	2.35
			AvgRF	CCRF	%Dev			
13	p	freon-113	0.661	0.607	8.2	96	-0.04	2.91
14	p	acrolein	0.011	0.015#	-36.4#	127	0.00	2.76
15	p	1,1-dichloroethene	0.463	0.415	10.4	95	-0.01	2.86
16	p	acetone	0.043	0.038#	11.6	93	-0.01	2.90
17	p	Methyl Acetate	0.136	0.138	-1.5	111	0.00	3.28
18	p	methylene chloride	0.521	0.443	15.0	101	-0.01	3.46
19	p	methyl tert butyl ether	0.747	0.640	14.3	92	-0.02	3.84
20	p	acrylonitrile	0.083	0.090	-8.4	110	0.00	3.78
21	p	allyl chloride	0.595	0.607	-2.0	107	-0.01	3.29
22	p	trans-1,2-dichloroethene	0.494	0.467	5.5	104	-0.01	3.83
23	p	iodomethane	1.265	1.034	18.3	91	-0.01	3.03
24	p	carbon disulfide	1.648	1.572	4.6	102	-0.01	3.11
25	p	propionitrile	0.026	0.029#	-11.5	106	0.00	5.64
26	p	vinyl acetate	0.920	0.992	-7.8	113	-0.01	4.58
27	p	chloroprene	0.615	0.612	0.5	101	-0.01	4.62
28	p	di-isopropyl ether	1.266	1.326	-4.7	106	-0.02	4.60
29	p	methacrylonitrile	0.124	0.131	-5.6	108	0.00	5.92
30	p	2-butanone	0.028	0.027#	3.6	94	0.00	5.53
31	p	Hexane	0.341	0.376	-10.3	106	0.00	4.25
32	P	1,1-dichloroethane	0.914	0.837	8.4	104	-0.01	4.51
33	p	tert-butyl ethyl ether	1.028	0.910	11.5	95	-0.02	5.27

Continuing Calibration Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSV1314-CC1312
Lab FileID: V36291.D

34	p	isobutyl alcohol	0.184	0.199	-8.2	113	-0.01	4.58
35	p	2,2-dichloropropane	0.682	0.643	5.7	104	-0.02	5.54
36	p	cis-1,2-dichloroethene	0.545	0.502	7.9	102	0.00	5.53
37	p	ethyl acetate	0.918	0.992	-8.1	113	-0.01	4.58
38	p	bromochloromethane	0.271	0.260	4.1	103	0.00	5.95
39	p	chloroform	0.915	0.861	5.9	103	0.00	6.17
40	S	dibromofluoromethane (s)	0.525	0.544	-3.6	108	0.00	6.44
41	p	Tetrahydrofuran	0.042	0.044#	-4.8	107	0.00	5.96
42	p	1,1,1-trichloroethane	0.850	0.827	2.7	99	-0.02	6.41
43	I	1,4-difluorobenzene	1.000	1.000	0.0	107	0.00	7.74
44	p	Cyclohexane	0.570	0.551	3.3	99	-0.01	6.52
45	p	carbon tetrachloride	0.488	0.517	-5.9	102	-0.01	6.67
46	p	1,1-dichloropropene	0.341	0.353	-3.5	99	0.00	6.68
47	p	benzene	1.091	1.048	3.9	103	0.00	7.00
48	p	1,2-dichloroethane	0.335	0.331	1.2	106	0.00	7.12
			Amount	Calc.	%Drift			
49	p	tert-amyl methyl ether	50.000	47.878	4.2	96	-0.01	7.29
			AvgRF	CCRF	%Dev			
50	p	heptane	0.254	0.289	-13.8	108	0.00	7.56
51	p	trichloroethene	0.356	0.318	10.7	100	0.00	8.03
52	p	1,2-dichloropropane	0.304	0.304	0.0	108	0.00	8.38
53	p	dibromomethane	0.144	0.145	-0.7	108	0.00	8.48
54	p	bromodichloromethane	0.346	0.355	-2.6	110	0.00	8.74
55	p	Methylcyclohexane	0.450	0.428	4.9	98	0.00	8.34
			Amount	Calc.	%Drift			
56	p	2-chloroethyl vinyl ether	50.000	40.949	18.1	99	0.00	9.11
			AvgRF	CCRF	%Dev			
57	p	methyl methacrylate	0.076	0.074	2.6	103	0.00	8.51
			Amount	Calc.	%Drift			
58	p	1,4-dioxane	250.000	274.536	-9.8	122	-0.01	8.50
59	p	cis-1,3-dichloropropene	50.000	54.637	-9.3	106	0.00	9.26
			AvgRF	CCRF	%Dev			
60	S	toluene-d8 (s)	1.114	1.142	-2.5	105	0.00	9.55
61	p	4-methyl-2-pentanone	0.130	0.122	6.2	93	0.00	9.45
62	p	toluene	0.808	0.742	8.2	98	0.00	9.63
			Amount	Calc.	%Drift			
63	p	trans-1,3-dichloropropene	50.000	54.656	-9.3	106	0.00	9.92
			AvgRF	CCRF	%Dev			
64	p	1,1,2-trichloroethane	0.165	0.168	-1.8	109	0.00	10.12
			Amount	Calc.	%Drift			
65	p	ethyl methacrylate	50.000	43.400	13.2	99	0.00	9.99
			AvgRF	CCRF	%Dev			
66	I	chlorobenzene-d5	1.000	1.000	0.0	107	0.00	11.08
67	p	tetrachloroethene	0.896	0.799	10.8	101	0.00	10.18
68	p	1,3-dichloropropane	0.679	0.657	3.2	112	0.00	10.28
69	p	dibromochloromethane	0.588	0.606	-3.1	107	0.00	10.50
70	p	1,2-dibromoethane	0.454	0.433	4.6	104	0.00	10.61
71	p	2-hexanone	0.283	0.269	4.9	79	0.00	10.36

Continuing Calibration Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSV1314-CC1312
Lab FileID: V36291.D

72	P	chlorobenzene	2.262	2.086	7.8	103	0.00	11.11
73	p	1,1,1,2-tetrachloroethane	0.845	0.816	3.4	98	0.00	11.21
74	p	ethylbenzene	3.416	3.332	2.5	101	0.00	11.21
75	p	m,p-xylene	1.420	1.366	3.8	97	0.00	11.34
76	p	o-xylene	1.463	1.378	5.8	99	0.00	11.71
77	p	styrene	2.165	2.126	1.8	100	0.00	11.73
		----------	Amount	Calc.	%Drift	----------		
78	P	bromoform	50.000	53.019	-6.0	113	0.00	11.91
79	p	trans-1,4-dichloro-2-bute	50.000	29.440	41.1#	66	0.00	12.12
		----------	AvgRF	CCRF	%Dev	----------		
80	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	104	0.00	13.29
81	p	isopropylbenzene	2.947	2.945	0.1	85	0.00	12.06
82	S	bromofluorobenzene (s)	0.815	0.826	-1.3	98	0.00	12.23
83	p	bromobenzene	0.818	0.761	7.0	98	0.00	12.35
84	P	1,1,2,2-tetrachloroethane	0.411	0.408	0.7	100	0.00	12.36
		----------	Amount	Calc.	%Drift	----------		
85	p	1,2,3-trichloropropane	50.000	36.477	27.0#	74	0.00	12.41
86	p	n-propylbenzene	50.000	44.337	11.3	97	0.00	12.45
		----------	AvgRF	CCRF	%Dev	----------		
87	p	2-chlorotoluene	2.136	2.044	4.3	96	0.00	12.53
88	p	4-chlorotoluene	2.405	2.389	0.7	101	0.00	12.64
89	p	1,3,5-trimethylbenzene	2.543	2.706	-6.4	99	0.00	12.62
90	p	tert-butylbenzene	1.352	1.339	1.0	97	0.00	12.91
		----------	Amount	Calc.	%Drift	----------		
91	p	1,2,4-trimethylbenzene	50.000	46.377	7.2	101	0.00	12.96
92	p	sec-butylbenzene	50.000	42.378	15.2	99	0.00	13.11
		----------	AvgRF	CCRF	%Dev	----------		
93	p	1,3-dichlorobenzene	1.686	1.578	6.4	100	0.00	13.22
		----------	Amount	Calc.	%Drift	----------		
94	p	p-isopropyltoluene	50.000	43.082	13.8	99	0.00	13.25
		----------	AvgRF	CCRF	%Dev	----------		
95	p	1,4-dichlorobenzene	1.738	1.569	9.7	97	0.00	13.31
96	p	1,2-dichlorobenzene	1.549	1.432	7.6	99	0.00	13.63
97	p	n-butylbenzene	2.279	2.340	-2.7	100	0.00	13.62
		----------	Amount	Calc.	%Drift	----------		
98	p	1,2-dibromo-3-chloropropa	50.000	41.308	17.4	101	0.00	14.33
		----------	AvgRF	CCRF	%Dev	----------		
99	p	1,3,5-trichlorobenzene	1.136	1.016	10.6	95	0.00	14.50
100	p	1,2,4-trichlorobenzene	0.720	0.680	5.6	96	0.00	15.05
101	p	hexachlorobutadiene	0.379	0.358	5.5	99	0.00	15.17
		----------	Amount	Calc.	%Drift	----------		
102	p	naphthalene	50.000	39.593	20.8#	92	0.00	15.29
		----------	AvgRF	CCRF	%Dev	----------		
103	p	1,2,3-trichlorobenzene	0.464	0.423	8.8	98	0.00	15.47
		----------	Amount	Calc.	%Drift	----------		
104	p	2-Methylnaphthalene	25.000	14.758	41.0#	95	0.00	16.28

Continuing Calibration Summary

Job Number: MC34663
Account: EAENYS EA Engineering
Project: NFARS, Niagara Falls, NY

Sample: MSV1314-CC1312
Lab FileID: V36291.D

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105 p   1-Methylnaphthalene        25.000  13.305     46.8#  99   0.00   16.45
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    (#) = Out of Range              SPCC's out = 5  CCC's out = 0
     v36199.D   v141030w.m       Mon Nov 03 10:34:29 2014
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Appendix D

Operations and Maintenance Forms

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EA Engineering P.C. and its Affiliate,
EA Science and Technology

OPERATIONS AND MAINTENANCE INSPECTION REPORT
Groundwater Pumping Stations - IRP Sites 10 and 13
Niagara Falls Air Reserve Station

Date of Inspection: 22 January 2014 **Weather:** Partly Cloudy, 7°F

Names of EA Inspectors: Robert Peterson

Other Personnel Present/Company: None

Pumping Station Number	PW10-1	PW10-2	PW13-1	PW13-4D
Previous Totalizer Reading (gals.) (12/20/13)	89,030	N/A	28,184	318,839
Totalizer Reading (gals.)	107,373	NA	41,694	340,127
Date/Time of Reading	1/22/14 11:15	NA	1/22/14 12:07	1/22/14 12:35
Water level depth (feet TOIC)	10.60	11.06	15.41	18.47
Total well depth (feet TOIC)	13.03	25.00	27.44	22.81
Date/Time of sample collection	NA	NA	1/22/14 12:23	1/22/14 12:35
Pump running at inspect.? (Y/N)	Y	N	Y	Y
Pressure during pumping (psig)	50	NA	1.0	0.0
Flow rate (gpm)	7.1	NA	1.1	3.0
Condition Check Items (G = good, F = fair, P = poor; Y = yes, N = no, N/A = not applicable)				
Enclosure (G/F/P)	G	G	G	G
Lock (G/F/P)	G	NA	G	G
Concrete pad (G/F/P)	G	NA	G	G
Are circuit breakers tripped? (Y/N)	N	N	N	N
Panel boards (G/F/P)	NA	NA	G	G
Electrical connections in well enclosure (G/F/P)	G	G	G	G
Run/Stop panel lights (G/P)	NA	NA	G	G
Trip test pump (Y/N/NA)	Y	N	N	N
Evidence of leaks? (Y/N)	N	N	N	N
Is sump dry? (Y/N)	Y	N[(a)]	Y	Y
Is heater working? (Y/N/NA)	Y	NA	Y	Y
Alarm conditions (describe)	NONE	NA	NONE	NONE

Comments/Maintenance performed:

EA replaced filter bag at PW10-1.

(a) 2.7 feet of water in vault. Water pumped to ground surface via submersible pump.

Key: gpm = Gallons per minute gals = Gallons N/A = Not applicable N/M = Not measured
psig = Pounds per square inch, gauge TOIC = Top of inner casing. G/F/P = Good/Fair/Poor

OPERATIONS AND MAINTENANCE INSPECTION CHECKLIST

Site 10 Groundwater Treatment Trailer **Niagara Falls Air Reserve Station**

Date & time of inspection: 22 January 2014 **Weather**: Partly Cloudy, 7° F

Inspection personnel: EA- Robert Peterson

Totalizer Readings

	Date	Time	EQ Tank (Gallons)	Effluent Meter (Gal)
Prev. Reading	12/20/13	08:00	6,931,690	274,922
Current Reading	1/22/14	14:02	7,015,540	325,009

Effluent Sample Data

Sample Date:	1/22/14
Sample Time:	11:05
Sample ID:	PW10-EFFL-JAN14

Analyses:
☑ VOCs - 8260
☑Metals – 6010 Cu, Pb, Ni, Zn

If answers to inspection criteria are in shaded spaces, inspection personnel must provide corrective actions taken, as well as comments and/or recommendations.

	Yes	No	Comments
Trailer exterior:			
Are there any signs of vandalism or burglary?		X	
Are there any signs of the trailer shifting, heaving, or settling?		X	
Are there any signs of damage to the vent stack?		X	
Are there any other signs of damage to the exterior of the trailer?		X	
Is the yard hydrant (potable water supply) operating properly?	X		
Are the trailer tie-down straps secure?	X		
Does outdoor GFCI outlet test and reset properly?	X		
Are outdoor flood lights functional?	X		
Trailer interior:			
Is there any standing water or signs of water damage?		X	
Process piping:			
Are there any signs of damage, failure, or stress that may compromise the integrity of either the interior process piping or the exterior connections?		X	
Are there any signs of damage, failure, or stress that may compromise the integrity of any valves?		X	
Electrical and control panels:			
Are there any signs of damage, failure, or stress that may compromise the integrity of the electrical panels?		X	
Do all green indicator lights on the main control panel illuminate during component operation?	X		
Are all control switches in the "AUTO" position? If no, explain.	X		
Are any red alarm indicator lights illuminated?		X	Specify: N/A
Is the RP-2 elapsed time meter operational?	X		Reading: 794,908 Date/Time: 1/22/14 10:40
Is the system shut-down elapsed time meter operational?	X		Reading: 512.6 Date/Time: 1/22/14 10:40
Is the E-CON Kilowatt-hour meter operational?	X		Reading: 9.6.3.6 Date/Time: 1/22/14 10:40

OPERATIONS AND MAINTENANCE INSPECTION CHECKLIST Date: 22 January 2014
Site 10 Groundwater Treatment Trailer, Niagara Falls Air Reserve Station

If answers to inspection criteria are in shaded spaces, inspection personnel must provide corrective actions taken, as well as comments and/or recommendations.

	Yes	No	Comments
Equalization tank/stripper sump tanks:			
Are there any signs of damage, failure, or stress that may compromise the integrity of the tanks?		X	
EQ tank feed pump:			
Is the feed pump operating properly?	X		Sight glass (rotameter): 2 gpm
Are there any signs of damage or excessive wear to the pump, wiring, piping, or rotameter?		X	
Cartridge filter:			
Is the cartridge filter in use?		X	
Antiscalant chemical metering system:			
Is there an adequate amount of antiscalant chemical in the storage tank? [Provide the approximate chemical level.]	X		Tank level: 27 gallons
Is the antiscalant chemical metering pump operating properly?	X		Stroke: 40 Speed: 40
Are there any signs of damage or excessive wear to the pump, tank, or lines?		X	
Air stripper:			
Is the air stripper blower operating properly?	X		Blower pressure: 9.5 inches H_2O
Are there any leaks or other signs of damage to the stripper unit, vent pipe, or other pipe connections?		X	
Stripper tank pump:			
Is the stripper sump pump operating properly?	X		
Are there any signs of damage or excessive wear?		X	
Activated carbon vessel:			
Is the carbon vessel currently in use?		X	
Effluent Flowmeter:			
Is the flowmeter functioning?	X		Flow Rate: 7 gpm
Pressure gauge readings: PI 5-1: 0 psi PI 5-2: N/A psi PI 6: 0 psi			
Electric heater (for inspection during cold months only; if heater is not on during inspection, turn thermostat up until heater turns on; reset thermostat after inspection):			
Is the heater fan operating properly?	X		Air temperature: 57 °F
Is warm air coming out of heater?	X		

Other Observations/Comments:

3 January 2014: EA responded to a system callout received on 2 January 2014 at 19:35. System call-out was result of a power failure at the GWTS and subsequent low temperature in the trailer from the heating fans not working. Power was on and the system was operational upon EA's arrival. The autodialer was reset.

EA Engineering P.C. and its Affiliate,
EA Science and Technology

OPERATIONS AND MAINTENANCE INSPECTION REPORT
Groundwater Pumping Stations - IRP Sites 10 and 13
Niagara Falls Air Reserve Station

Date of Inspection: 26 February 2014 **Weather:** Sunny, 6°F

Names of EA Inspectors: Robert Peterson

Other Personnel Present/Company: Craig McCaffrey - Delmar Electric

Pumping Station Number	PW10-1	PW10-2	PW13-1	PW13-4D
Previous Totalizer Reading (gals.) (1/22/14)	107,373	NA	41,694	340,127
Totalizer Reading (gals.)	110,729	NA	41,694	340,127
Date/Time of Reading	2/26/14 09:35	NA	2/26/14 10:00	2/26/14 10:05
Water level depth (feet TOIC)	10.61	17.80	6.54	6.81
Total well depth (feet TOIC)	13.03	25.00	27.44	22.81
Date/Time of sample collection	NA	NA	NA	NA
Pump running at inspect.? (Y/N)	Y	N	N	N
Pressure during pumping (psig)	56	NA	NA	NA
Flow rate (gpm)	6.0	NA	NA	NA
Condition Check Items (G = good, F = fair, P = poor; Y = yes, N = no, N/A = not applicable)				
Enclosure (G/F/P)	G	G	G	G
Lock (G/F/P)	G	NA	G	G
Concrete pad (G/F/P)	G	NA	G	G
Are circuit breakers tripped? (Y/N)	N	N	N	N
Panel boards (G/F/P)	NA	NA	G	G
Electrical connections in well enclosure (G/F/P)	G	G	G	G
Run/Stop panel lights (G/P)	NA	NA	G	G
Trip test pump (Y/N/NA)	Y	N	N	N
Evidence of leaks? (Y/N)	N	N	N	N
Is sump dry? (Y/N)	Y	N[(a)]	Y	Y
Is heater working? (Y/N/NA)	Y	NA	Y	Y
Alarm conditions (describe)	NONE	NA	NONE	NONE

Comments/Maintenance performed:

Delmar Electric on-site 26 February 2014 for quarterly electrical inspection. No issues were noted.

(a) 0.5 feet of water in vault.

Key: gpm = Gallons per minute gals = Gallons N/A = Not applicable N/M = Not measured
psig = Pounds per square inch, gauge TOIC = Top of inner casing. G/F/P = Good/Fair/Poor

OPERATIONS AND MAINTENANCE INSPECTION CHECKLIST

Site 10 Groundwater Treatment Trailer **Niagara Falls Air Reserve Station**

Date & time of inspection: 26 February 2014 **Weather**: Sunny, 6° F

Inspection personnel: EA- Robert Peterson

Totalizer Readings

	Date	Time	EQ Tank (Gallons)	Effluent Meter (Gal)
Prev. Reading	1/22/14	14:02	7,015,540	325,009
Current Reading	2/26/14	08:50	7,050,300	345,717

Effluent Sample Data

Sample Date:	2/26/14	Analyses:
Sample Time:	09:05	☑ VOCs - 8260
Sample ID:	PW10-EFFL-FEB14	☑Metals – 6010 Cu, Pb, Ni, Zn

If answers to inspection criteria are in shaded spaces, inspection personnel must provide corrective actions taken, as well as comments and/or recommendations.

	Yes	No	Comments
Trailer exterior:			
Are there any signs of vandalism or burglary?		X	
Are there any signs of the trailer shifting, heaving, or settling?		X	
Are there any signs of damage to the vent stack?		X	
Are there any other signs of damage to the exterior of the trailer?		X	
Is the yard hydrant (potable water supply) operating properly?	X		
Are the trailer tie-down straps secure?	X		
Does outdoor GFCI outlet test and reset properly?	X		
Are outdoor flood lights functional?	X		
Trailer interior:			
Is there any standing water or signs of water damage?		X	
Process piping:			
Are there any signs of damage, failure, or stress that may compromise the integrity of either the interior process piping or the exterior connections?		X	
Are there any signs of damage, failure, or stress that may compromise the integrity of any valves?		X	
Electrical and control panels:			
Are there any signs of damage, failure, or stress that may compromise the integrity of the electrical panels?		X	
Do all green indicator lights on the main control panel illuminate during component operation?	X		
Are all control switches in the "AUTO" position? If no, explain.	X		
Are any red alarm indicator lights illuminated?		X	Specify: N/A
Is the RP-2 elapsed time meter operational?	X		Reading: 796,185 Date/Time: 2/26/14 08:50
Is the system shut-down elapsed time meter operational?	X		Reading: 512.6 Date/Time: 2/26/14 08:50
Is the E-CON Kilowatt-hour meter operational?	X		Reading: 9.8.7.1 Date/Time: 2/26/14 08:50

OPERATIONS AND MAINTENANCE INSPECTION CHECKLIST Date: 26 February 2014
Site 10 Groundwater Treatment Trailer, Niagara Falls Air Reserve Station

If answers to inspection criteria are in shaded spaces, inspection personnel must provide corrective actions taken, as well as comments and/or recommendations.

	Yes	No	Comments
Equalization tank/stripper sump tanks:			
Are there any signs of damage, failure, or stress that may compromise the integrity of the tanks?		X	
EQ tank feed pump:			
Is the feed pump operating properly?	X		Sight glass (rotameter): 2 gpm
Are there any signs of damage or excessive wear to the pump, wiring, piping, or rotameter?		X	
Cartridge filter:			
Is the cartridge filter in use?		X	
Antiscalant chemical metering system:			
Is there an adequate amount of antiscalant chemical in the storage tank? [Provide the approximate chemical level.]	X		Tank level: 40 gallons
Is the antiscalant chemical metering pump operating properly?	X		Stroke: 40 Speed: 40
Are there any signs of damage or excessive wear to the pump, tank, or lines?		X	
Air stripper:			
Is the air stripper blower operating properly?	X		Blower pressure: 9.5 inches H_2O
Are there any leaks or other signs of damage to the stripper unit, vent pipe, or other pipe connections?		X	
Stripper tank pump:			
Is the stripper sump pump operating properly?	X		
Are there any signs of damage or excessive wear?		X	
Activated carbon vessel:			
Is the carbon vessel currently in use?		X	
Effluent Flowmeter:			
Is the flowmeter functioning?	X		Flow Rate: 7 gpm
Pressure gauge readings: PI 5-1: 0 psi PI 5-2: N/A psi PI 6: 0 psi			
Electric heater (for inspection during cold months only; if heater is not on during inspection, turn thermostat up until heater turns on; reset thermostat after inspection):			
Is the heater fan operating properly?	X		Air temperature: 63 °F
Is warm air coming out of heater?	X		

Other Observations/Comments:

Delmar Electric on-site for quarterly inspection. No issues noted.

EA Engineering P.C. and its Affiliate,
EA Science and Technology

OPERATIONS AND MAINTENANCE INSPECTION REPORT
Groundwater Pumping Stations - IRP Sites 10 and 13
Niagara Falls Air Reserve Station

Date of Inspection: 26 March 2014 **Weather:** Overcast, 18°F

Names of EA Inspectors: Robert Peterson, Hilary Williams

Other Personnel Present/Company: NA

Pumping Station Number	PW10-1	PW10-2	PW13-1	PW13-4D
Previous Totalizer Reading (gals.) (2/26/14)	110,729	NA	41,694	340,127
Totalizer Reading (gals.)	113,122	NA	41,694	340,127
Date/Time of Reading	3/26/14 09:50	NA	3/26/14 10:07	3/26/14 10:13
Water level depth (feet TOIC)	10.52	18.69	6.00	8.01
Total well depth (feet TOIC)	13.03	25.00	27.44	22.81
Date/Time of sample collection	NA	NA	NA	NA
Pump running at inspect.? (Y/N)	Y	N	N	N
Pressure during pumping (psig)	56	NA	NA	NA
Flow rate (gpm)	6.0	NA	NA	NA
Condition Check Items (G = good, F = fair, P = poor; Y = yes, N = no, N/A = not applicable)				
Enclosure (G/F/P)	G	G	G	G
Lock (G/F/P)	G	NA	G	G
Concrete pad (G/F/P)	G	NA	G	G
Are circuit breakers tripped? (Y/N)	N	N	N	N
Panel boards (G/F/P)	NA	NA	G	G
Electrical connections in well enclosure (G/F/P)	G	G	G	G
Run/Stop panel lights (G/P)	NA	NA	G	G
Trip test pump (Y/N/NA)	Y	N	N	N
Evidence of leaks? (Y/N)	N	N	N	N
Is sump dry? (Y/N)	Y	N[(a)]	Y	Y
Is heater working? (Y/N/NA)	Y	NA	Y	Y
Alarm conditions (describe)	NONE	NA	NONE	NONE

Comments/Maintenance performed:

No issues were noted.

(a) 0.8 feet of water in vault.

Key: gpm = Gallons per minute gals = Gallons N/A = Not applicable N/M = Not measured
psig = Pounds per square inch, gauge TOIC = Top of inner casing. G/F/P = Good/Fair/Poor

OPERATIONS AND MAINTENANCE INSPECTION CHECKLIST

Site 10 Groundwater Treatment Trailer **Niagara Falls Air Reserve Station**

Date & time of inspection: 26 March 2014 **Weather**: Overcast, 18° F

Inspection personnel: EA- Robert Peterson, Hilary Williams

Totalizer Readings

	Date	Time	EQ Tank (Gallons)	Effluent Meter (Gal)
Prev. Reading	2/26/14	08:50	7,050,300	345,717
Current Reading	3/26/14	08:38	7,077,110	361,606

Effluent Sample Data

Sample Date:	3/26/14	Analyses:
Sample Time:	08:45	☑ VOCs - 8260
Sample ID:	PW10-EFFL-MAR14	☑Metals – 6010 Cu, Pb, Ni, Zn

If answers to inspection criteria are in shaded spaces, inspection personnel must provide corrective actions taken, as well as comments and/or recommendations.

	Yes	No	Comments
Trailer exterior:			
Are there any signs of vandalism or burglary?		X	
Are there any signs of the trailer shifting, heaving, or settling?		X	
Are there any signs of damage to the vent stack?		X	
Are there any other signs of damage to the exterior of the trailer?		X	
Is the yard hydrant (potable water supply) operating properly?	X		
Are the trailer tie-down straps secure?	X		
Does outdoor GFCI outlet test and reset properly?	X		
Are outdoor flood lights functional?	X		
Trailer interior:			
Is there any standing water or signs of water damage?		X	
Process piping:			
Are there any signs of damage, failure, or stress that may compromise the integrity of either the interior process piping or the exterior connections?		X	
Are there any signs of damage, failure, or stress that may compromise the integrity of any valves?		X	
Electrical and control panels:			
Are there any signs of damage, failure, or stress that may compromise the integrity of the electrical panels?		X	
Do all green indicator lights on the main control panel illuminate during component operation?	X		
Are all control switches in the "AUTO" position? If no, explain.	X		
Are any red alarm indicator lights illuminated?		X	Specify: N/A
Is the RP-2 elapsed time meter operational?	X		Reading: 797,179 Date/Time: 3/26/14 08:40
Is the system shut-down elapsed time meter operational?	X		Reading: 512.6 Date/Time: 3/26/14 08:40
Is the E-CON Kilowatt-hour meter operational?	X		Reading: 0.0.1.4 Date/Time: 3/26/14 08:40

OPERATIONS AND MAINTENANCE INSPECTION CHECKLIST Date: 26 March 2014
Site 10 Groundwater Treatment Trailer, Niagara Falls Air Reserve Station

If answers to inspection criteria are in shaded spaces, inspection personnel must provide corrective actions taken, as well as comments and/or recommendations.

	Yes	No	Comments
Equalization tank/stripper sump tanks:			
Are there any signs of damage, failure, or stress that may compromise the integrity of the tanks?		X	
EQ tank feed pump:			
Is the feed pump operating properly?	X		Sight glass (rotameter): 5.5 gpm
Are there any signs of damage or excessive wear to the pump, wiring, piping, or rotameter?		X	
Cartridge filter:			
Is the cartridge filter in use?		X	
Antiscalant chemical metering system:			
Is there an adequate amount of antiscalant chemical in the storage tank? [Provide the approximate chemical level.]	X		Tank level: 32 gallons
Is the antiscalant chemical metering pump operating properly?	X		Stroke: 40 Speed: 40
Are there any signs of damage or excessive wear to the pump, tank, or lines?		X	
Air stripper:			
Is the air stripper blower operating properly?	X		Blower pressure: 9.5 inches H_2O
Are there any leaks or other signs of damage to the stripper unit, vent pipe, or other pipe connections?		X	
Stripper tank pump:			
Is the stripper sump pump operating properly?	X		
Are there any signs of damage or excessive wear?		X	
Activated carbon vessel:			
Is the carbon vessel currently in use?		X	
Effluent Flowmeter:			
Is the flowmeter functioning?	X		Flow Rate: 7 gpm
Pressure gauge readings: PI 5-1: 0 psi PI 5-2: N/A psi PI 6: 0 psi			
Electric heater (for inspection during cold months only; if heater is not on during inspection, turn thermostat up until heater turns on; reset thermostat after inspection):			
Is the heater fan operating properly?	X		Air temperature: 56 °F
Is warm air coming out of heater?	X		

Other Observations/Comments:

26-Mar-14: During monthly O&M, buildup was observed in the sight glass. EA removed and cleaned the rotameter. EA also recalibrated and reset the effluent totalizer.

28-Mar-14: EA responded to a Hobolink alarm regarding low flow from the GWTS observed a small flood due to faulty PVC fitting on the influent line. EA repaired the fitting and cleaned residual water from the GWTS floor. The alarm was reset and the system restarted. No leaks were observed after restart. It is unclear why there was a delayed response from the system autodialer. A test of the autodialer was conducted by triggering the Low Temp alarm and the autodialer functioned normally. An electrician will be brought out during the next O&M to further evaluate the autodialer to ensure it is functioning normally.

EA Engineering P.C. and its Affiliate,
EA Science and Technology

OPERATIONS AND MAINTENANCE INSPECTION REPORT
Groundwater Pumping Stations - IRP Sites 10 and 13
Niagara Falls Air Reserve Station

Date of Inspection: 23 April 2014 **Weather:** rain, 34°F

Names of EA Inspectors: Frank DeSantis

Other Personnel Present/Company: Joe McCaffrey and Craig McCaffrey – Delmar Electric

Pumping Station Number	PW10-1	PW10-2	PW13-1	PW13-4D
Previous Totalizer Reading (gals.) (3/26/14)	113,122	NA	41,694	340,127
Totalizer Reading (gals.)	127,894	NA	41,788	340,231
Date/Time of Reading	4/23/14 09:15	NA	4/23/14 14:45	4/23/14 14:50
Water level depth (feet TOIC)	10.98	TOC	16.34	18.26
Total well depth (feet TOIC)	13.04	25.02	27.52	22.92
Date/Time of sample collection	NA	NA	4/23/14 14:40	4/23/14 14:55
Pump running at inspect.? (Y/N)	N	N	Y	Y
Pressure during pumping (psig)	56	NA	1	1
Flow rate (gpm)	6.0	NA	5	6
Condition Check Items (G = good, F = fair, P = poor; Y = yes, N = no, N/A = not applicable)				
Enclosure (G/F/P)	G	G	G	G
Lock (G/F/P)	G	NA	G	G
Concrete pad (G/F/P)	G	NA	G	G
Are circuit breakers tripped? (Y/N)	N	N	N	N
Panel boards (G/F/P)	NA	NA	G	G[(a)]
Electrical connections in well enclosure (G/F/P)	G	F[b)]	G	G
Run/Stop panel lights (G/P)	NA	NA	G	G
Trip test pump (Y/N/NA)	Y	N	N	N
Evidence of leaks? (Y/N)	N	N	N	N
Is sump dry? (Y/N)	Y	N[(c)]	Y	Y
Is heater working? (Y/N/NA)	Y	NA	Y	Y
Alarm conditions (describe)	NONE	NA	NONE	NONE

Comments/Maintenance performed:

(a) Faulty relay for high level alarm in PW13-4D observed. Replacement will be ordered and installed during next O&M visit.
(b) Faulty GFI observed in PW10-2 and was replaced.
(c) ~ 4ft of water observed in enclosure. Water was removed with sump pump.

4 April 2014: PW10-2 turned off at 12:35 as part of a remedial design investigation at Site 10. Pump is scheduled to be re-started on 1 May 2014.

23 April 2014: Delmar Electric on-site for quarterly inspection. Both pumps at Site 13 turned on for 3-month cycle

Pump 13-1 started at 13:15, bag filter replaced prior to start.
Pump 13-4D started at 12:45, bag filter replaced prior to start

Key: gpm = Gallons per minute gals = Gallons N/A = Not applicable N/M = Not measured

OPERATIONS AND MAINTENANCE INSPECTION CHECKLIST

Site 10 Groundwater Treatment Trailer **Niagara Falls Air Reserve Station**

Date & time of inspection: 23 April 2014 **Weather**: mixed rain/snow, 32° F

Inspection personnel: EA- Frank DeSantis Joe and Craig McCaffrey (Delmar Electric)

Totalizer Readings

	Date	Time	EQ Tank (Gallons)	Effluent Meter (Gal)
Prev. Reading	3/26/14	08:38	7,077,110	361,606
Current Reading	4/23/14	08:40	7,104,670	16,752

Effluent Sample Data

Sample Date:	4/23/14
Sample Time:	09:00
Sample ID:	PW10-EFFL-APR14

Analyses:
☑ VOCs - 8260
☑Metals – 6010 Cu, Pb, Ni, Zn

If answers to inspection criteria are in shaded spaces, inspection personnel must provide corrective actions taken, as well as comments and/or recommendations.

	Yes	No	Comments
Trailer exterior:			
Are there any signs of vandalism or burglary?		X	
Are there any signs of the trailer shifting, heaving, or settling?		X	
Are there any signs of damage to the vent stack?		X	
Are there any other signs of damage to the exterior of the trailer?		X	
Is the yard hydrant (potable water supply) operating properly?	X		
Are the trailer tie-down straps secure?	X		
Does outdoor GFCI outlet test and reset properly?	X		
Are outdoor flood lights functional?	X		
Trailer interior:			
Is there any standing water or signs of water damage?		X	
Process piping:			
Are there any signs of damage, failure, or stress that may compromise the integrity of either the interior process piping or the exterior connections?		X	
Are there any signs of damage, failure, or stress that may compromise the integrity of any valves?		X	
Electrical and control panels:			
Are there any signs of damage, failure, or stress that may compromise the integrity of the electrical panels?		X	
Do all green indicator lights on the main control panel illuminate during component operation?	X		
Are all control switches in the "AUTO" position? If no, explain.		X	PW10-2 off. Pumped turned off on 4 April 2014as part of remedial design investigation at site
Are any red alarm indicator lights illuminated?	X		Specify: PW10-2 High Level, pump was turned off on 4 April 2014.
Is the RP-2 elapsed time meter operational?	X		Reading: 797,492 Date/Time: 4/23/14 08:43
Is the system shut-down elapsed time meter operational?	X		Reading: 0.0 (reset) Date/Time: 4/23/14 08:43
Is the E-CON Kilowatt-hour meter operational?	X		Reading: 0.0.8.7 Date/Time: 4/23/14 08:44

OPERATIONS AND MAINTENANCE INSPECTION CHECKLIST Date: 23 April 2014
Site 10 Groundwater Treatment Trailer, Niagara Falls Air Reserve Station

If answers to inspection criteria are in shaded spaces, inspection personnel must provide corrective actions taken, as well as comments and/or recommendations.

	Yes	No	Comments
Equalization tank/stripper sump tanks:			
Are there any signs of damage, failure, or stress that may compromise the integrity of the tanks?		X	
EQ tank feed pump:			
Is the feed pump operating properly?	X		Sight glass (rotameter): 5.5 gpm
Are there any signs of damage or excessive wear to the pump, wiring, piping, or rotameter?		X	
Cartridge filter:			
Is the cartridge filter in use?		X	
Antiscalant chemical metering system:			
Is there an adequate amount of antiscalant chemical in the storage tank? [Provide the approximate chemical level.]	X		Tank level: 23 gallons
Is the antiscalant chemical metering pump operating properly?	X		Stroke: 40 Speed: 40
Are there any signs of damage or excessive wear to the pump, tank, or lines?		X	
Air stripper:			
Is the air stripper blower operating properly?	X		Blower pressure: 10 inches H_2O
Are there any leaks or other signs of damage to the stripper unit, vent pipe, or other pipe connections?		X	
Stripper tank pump:			
Is the stripper sump pump operating properly?	X		
Are there any signs of damage or excessive wear?		X	
Activated carbon vessel:			
Is the carbon vessel currently in use?		X	
Effluent Flowmeter:			
Is the flowmeter functioning?	X		Flow Rate: 7 gpm
Pressure gauge readings: PI 5-1: 0 psi PI 5-2: N/A psi PI 6: 0 psi			
Electric heater (for inspection during cold months only; if heater is not on during inspection, turn thermostat up until heater turns on; reset thermostat after inspection):			
Is the heater fan operating properly?	X		Air temperature: 63 °F
Is warm air coming out of heater?	X		

Other Observations/Comments:

4 April 2014: PW10-2 turned off @ 12:35 as part of a remedial design investigation at the site.

23 April 2014: Delmar Electric on-site for quarterly electrical inspection. During the inspection the GFI outlet in PW10-2 was found to be faulty and was replaced. Warrick relay for high level in PW10-2 was removed to reset alarm. Relay will be replaced when pump is re-started (scheduled for 1 May 2014). Autodialer was tested and no issues noted.

26 March 2014: EA recalibrated and reset effluent meter totalizer.

EA Engineering P.C. and its Affiliate,
EA Science and Technology

OPERATIONS AND MAINTENANCE INSPECTION REPORT
Groundwater Pumping Stations - IRP Sites 10 and 13
Niagara Falls Air Reserve Station

Date of Inspection: 28 May 2014 **Weather:** 55°F, Partly Cloudy, 7 mph NE

Names of EA Inspectors: Rob Peterson

Other Personnel Present/Company: None

Pumping Station Number	PW10-1	PW10-2	PW13-1	PW13-4D
Previous Totalizer Reading (gals.) (3/26/14)	127,894	NA	41,788	340,231
Totalizer Reading (gals.)	142,318	NA	66,539	365,732
Date/Time of Reading	5/28/14 08:10	NA	5/28/14 10:25	5/28/14 10:40
Water level depth (feet TOIC)	11.03	10.78	16.84	18.27
Total well depth (feet TOIC)	13.04	25.02	27.52	22.92
Date/Time of sample collection	NA	NA	5/28/14 10:30	5/28/14 10:42
Pump running at inspect.? (Y/N)	Y	N	Y	Y
Pressure during pumping (psig)	55	NA	1	1
Flow rate (gpm)	6.0	NA	1.4	4.0
Condition Check Items (G = good, F = fair, P = poor; Y = yes, N = no, N/A = not applicable)				
Enclosure (G/F/P)	G	G	G	G
Lock (G/F/P)	G	NA	G	G
Concrete pad (G/F/P)	G	NA	G	G
Are circuit breakers tripped? (Y/N)	N	N	N	N
Panel boards (G/F/P)	NA	NA	G	G
Electrical connections in well enclosure (G/F/P)	G	G	G	G
Run/Stop panel lights (G/P)	NA	NA	G	G
Trip test pump (Y/N/NA)	Y	N	N	N
Evidence of leaks? (Y/N)	N	N	N	N
Is sump dry? (Y/N)	Y	N[(a)]	Y	Y
Is heater working? (Y/N/NA)	Y[(b)]	NA	Y[(b)]	Y[(b)]
Alarm conditions (describe)	NONE	NA	NONE	NONE

Comments/Maintenance performed:

(a) ~ 1.1ft of water observed in enclosure.
(b) Heaters were turned off.

28 May 2014: New warrick relay for high level alarm in PW13-4D installed.

Key: gpm = Gallons per minute gals = Gallons N/A = Not applicable N/M = Not measured

OPERATIONS AND MAINTENANCE INSPECTION CHECKLIST

Site 10 Groundwater Treatment Trailer **Niagara Falls Air Reserve Station**

Date & time of inspection: 28 May 2014 **Weather**: 55°F, Partly Cloudy, 7 mph NE

Inspection personnel: EA- Rob Peterson

Totalizer Readings

	Date	Time	EQ Tank (Gallons)	Effluent Meter (Gal)
Prev. Reading	4/23/14	08:40	7,104,670	16,752
Current Reading	5/28/14	07:38	7,172,463	57,155

Effluent Sample Data

Sample Date:	5/28/14
Sample Time:	07:50
Sample ID:	PW10-EFFL-MAY14

Analyses:
☑ VOCs - 8260
☑Metals – 6010 Cu, Pb, Ni, Zn

If answers to inspection criteria are in shaded spaces, inspection personnel must provide corrective actions taken, as well as comments and/or recommendations.

	Yes	No	Comments
Trailer exterior:			
Are there any signs of vandalism or burglary?		X	
Are there any signs of the trailer shifting, heaving, or settling?		X	
Are there any signs of damage to the vent stack?		X	
Are there any other signs of damage to the exterior of the trailer?		X	
Is the yard hydrant (potable water supply) operating properly?	X		
Are the trailer tie-down straps secure?	X		
Does outdoor GFCI outlet test and reset properly?	X		
Are outdoor flood lights functional?	X		
Trailer interior:			
Is there any standing water or signs of water damage?		X	
Process piping:			
Are there any signs of damage, failure, or stress that may compromise the integrity of either the interior process piping or the exterior connections?		X	
Are there any signs of damage, failure, or stress that may compromise the integrity of any valves?		X	
Electrical and control panels:			
Are there any signs of damage, failure, or stress that may compromise the integrity of the electrical panels?		X	
Do all green indicator lights on the main control panel illuminate during component operation?	X		
Are all control switches in the "AUTO" position? If no, explain.	X		
Are any red alarm indicator lights illuminated?		X	Specify:
Is the RP-2 elapsed time meter operational?	X		Reading: 798,873 Date/Time: 5/28/14 07:41
Is the system shut-down elapsed time meter operational?	X		Reading: 74.1 Date/Time: 5/28/14 07:41
Is the E-CON Kilowatt-hour meter operational?	X		Reading: 0.1.6.1 Date/Time: 5/28/14 07:41

OPERATIONS AND MAINTENANCE INSPECTION CHECKLIST Date: 28 May 2014
Site 10 Groundwater Treatment Trailer, Niagara Falls Air Reserve Station

If answers to inspection criteria are in shaded spaces, inspection personnel must provide corrective actions taken, as well as comments and/or recommendations.

	Yes	No	Comments
Equalization tank/stripper sump tanks:			
Are there any signs of damage, failure, or stress that may compromise the integrity of the tanks?		X	
EQ tank feed pump:			
Is the feed pump operating properly?	X		Sight glass (rotameter): 5.5 gpm
Are there any signs of damage or excessive wear to the pump, wiring, piping, or rotameter?		X	
Cartridge filter:			
Is the cartridge filter in use?		X	
Antiscalant chemical metering system:			
Is there an adequate amount of antiscalant chemical in the storage tank? [Provide the approximate chemical level.]	X		Tank level: 45 gallons
Is the antiscalant chemical metering pump operating properly?	X		Stroke: 40 Speed: 40
Are there any signs of damage or excessive wear to the pump, tank, or lines?		X	
Air stripper:			
Is the air stripper blower operating properly?	X		Blower pressure: See Comments
Are there any leaks or other signs of damage to the stripper unit, vent pipe, or other pipe connections?		X	
Stripper tank pump:			
Is the stripper sump pump operating properly?	X		
Are there any signs of damage or excessive wear?		X	
Activated carbon vessel:			
Is the carbon vessel currently in use?		X	
Effluent Flowmeter:			
Is the flowmeter functioning?	X		Flow Rate: 7 gpm
Pressure gauge readings: PI 5-1: 0 psi PI 5-2: N/A psi PI 6: 0 psi			
Electric heater (for inspection during cold months only; if heater is not on during inspection, turn thermostat up until heater turns on; reset thermostat after inspection):			
Is the heater fan operating properly?	X		Air temperature: 64 °F
Is warm air coming out of heater?	X		

Other Observations/Comments:

5 May 2014: EA and Delmar Electric responded to system shutdown call received 2 May 2014. Shutdown was result of non-operational system blower caused by blown fuse. Fuse was replaced and system restarted.

28 May 2014: EA observed that the blower pressure gauge was not functioning properly. Replacement will be ordered and installed during next site visit.

EA Engineering P.C. and its Affiliate,
EA Science and Technology

OPERATIONS AND MAINTENANCE INSPECTION REPORT
Groundwater Pumping Stations - IRP Sites 10 and 13
Niagara Falls Air Reserve Station

Date of Inspection: 25 June 2014 **Weather:** 85F Overcast

Names of EA Inspectors: Rob Peterson and Charles Yarrington

Other Personnel Present/Company: None

Pumping Station Number	PW10-1	PW10-2	PW13-1	PW13-4D
Previous Totalizer Reading (gals.) (5/28/14)	142,318	NA	66,539	365,732
Totalizer Reading (gals.)	144,446	NA	80,901	383,587
Date/Time of Reading	6-25-14/1435	6-25-14/1430	6-25-14/1400	6-25-14/1410
Water level depth (feet TOIC)	10.18	7.59	16.65	18.06
Total well depth (feet TOIC)	13.04	25.02	27.52	22.92
Date/Time of sample collection	NA	NA	6-25-14/1405	6-25-14/1415
Pump running at inspect.? (Y/N)	Y	N	Y	Y
Pressure during pumping (psig)	50	NA	1	0
Flow rate (gpm)	6.0	NA	1.2	4.0
Condition Check Items (G = good, F = fair, P = poor; Y = yes, N = no, N/A = not applicable)				
Enclosure (G/F/P)	G	G	G	G
Lock (G/F/P)	G	NA	G	G
Concrete pad (G/F/P)	G	NA	G	G
Are circuit breakers tripped? (Y/N)	N	N	N	N
Panel boards (G/F/P)	NA	NA	G	G
Electrical connections in well enclosure (G/F/P)	G	G	G	G
Run/Stop panel lights (G/P)	NA	NA	G	G
Trip test pump (Y/N/NA)	Y	N	N	N
Evidence of leaks? (Y/N)	N	N	N	N
Is sump dry? (Y/N)	Y	N[(a)]	Y	Y
Is heater working? (Y/N/NA)	Y[(b)]	NA	Y[(b)]	Y[(b)]
Alarm conditions (describe)	NONE	NA	NONE	NONE

Comments/Maintenance performed:

(a) ~ 1.1ft of water observed in enclosure.
(b) Heaters were turned off.

Key: gpm = Gallons per minute gals = Gallons N/A = Not applicable N/M = Not measured

OPERATIONS AND MAINTENANCE INSPECTION CHECKLIST

Site 10 Groundwater Treatment Trailer **Niagara Falls Air Reserve Station**

Date & time of inspection: 25 June 2014 **Weather**: 85F Overcast

Inspection personnel: EA- Rob Peterson and Charles Yarrington, Delmar Electric – Joe McCaffrey

Totalizer Readings

	Date	Time	EQ Tank (Gallons)	Effluent Meter (Gal)
Prev. Reading	5/28/14	07:38	7,172,463	57,155
Current Reading	6/25/2014	14:38	7,191,840	68,517

Effluent Sample Data

Sample Date:	6/25/14	Analyses:
Sample Time:	14:45	☑ VOCs - 8260
Sample ID:	PW10-EFFL-JUNE14	☑Metals – 6010 Cu, Pb, Ni, Zn

If answers to inspection criteria are in shaded spaces, inspection personnel must provide corrective actions taken, as well as comments and/or recommendations.

	Yes	No	Comments
Trailer exterior:			
Are there any signs of vandalism or burglary?		X	
Are there any signs of the trailer shifting, heaving, or settling?		X	
Are there any signs of damage to the vent stack?		X	
Are there any other signs of damage to the exterior of the trailer?		X	
Is the yard hydrant (potable water supply) operating properly?	X		
Are the trailer tie-down straps secure?	X		
Does outdoor GFCI outlet test and reset properly?	X		
Are outdoor flood lights functional?	X		
Trailer interior:			
Is there any standing water or signs of water damage?		X	
Process piping:			
Are there any signs of damage, failure, or stress that may compromise the integrity of either the interior process piping or the exterior connections?		X	
Are there any signs of damage, failure, or stress that may compromise the integrity of any valves?		X	
Electrical and control panels:			
Are there any signs of damage, failure, or stress that may compromise the integrity of the electrical panels?		X	
Do all green indicator lights on the main control panel illuminate during component operation?	X		
Are all control switches in the "AUTO" position? If no, explain.	X		
Are any red alarm indicator lights illuminated?		X	Specify:
Is the RP-2 elapsed time meter operational?	X		Reading: 799,521 Date/Time: 6/25/14 14:39
Is the system shut-down elapsed time meter operational?	X		Reading: 134.6 Date/Time: 6/25/14 14:39
Is the E-CON Kilowatt-hour meter operational?	X		Reading: 0.1.4.8 Date/Time: 6/25/14 14:39

OPERATIONS AND MAINTENANCE INSPECTION CHECKLIST Date: 25 June 2014
Site 10 Groundwater Treatment Trailer, Niagara Falls Air Reserve Station

If answers to inspection criteria are in shaded spaces, inspection personnel must provide corrective actions taken, as well as comments and/or recommendations.

	Yes	No	Comments
Equalization tank/stripper sump tanks:			
Are there any signs of damage, failure, or stress that may compromise the integrity of the tanks?		X	
EQ tank feed pump:			
Is the feed pump operating properly?	X		Sight glass (rotameter): 5.5 gpm
Are there any signs of damage or excessive wear to the pump, wiring, piping, or rotameter?		X	
Cartridge filter:			
Is the cartridge filter in use?		X	
Antiscalant chemical metering system:			
Is there an adequate amount of antiscalant chemical in the storage tank? [Provide the approximate chemical level.]	X		Tank level: 40 gallons
Is the antiscalant chemical metering pump operating properly?	X		Stroke: 40 Speed: 40
Are there any signs of damage or excessive wear to the pump, tank, or lines?		X	
Air stripper:			
Is the air stripper blower operating properly?	X		Blower pressure: 20" H2O
Are there any leaks or other signs of damage to the stripper unit, vent pipe, or other pipe connections?		X	
Stripper tank pump:			
Is the stripper sump pump operating properly?	X		
Are there any signs of damage or excessive wear?		X	
Activated carbon vessel:			
Is the carbon vessel currently in use?		X	
Effluent Flowmeter:			
Is the flowmeter functioning?	X		Flow Rate: 7 gpm
Pressure gauge readings: PI 5-1: 0 psi PI 5-2: N/A psi PI 6: 0 psi			
Electric heater (for inspection during cold months only; if heater is not on during inspection, turn thermostat up until heater turns on; reset thermostat after inspection):			
Is the heater fan operating properly?	X		Air temperature: 85 °F
Is warm air coming out of heater?	X		

Other Observations/Comments:

9 June 2014: PW10-2 was turned off at 10:20 as part of a remedial design investigation being conducted at Site 10.

12 June 2014: PW10-2 was reactivated on at 15:20. System Elapsed time meter reset.

19 June 2014: System shutdown callout received 11:45. EA responded and observed the low air flow alarm was activated. No obstructions were observed in blower or air stripper. Restrictor plate was removed to increase air flow into blower and system was restarted. System shutdown again at 21:00.

23 June 2014: EA and Delmar Electric onsite in response to system shutdown and observed low air flow alarm was activated. EA inspected the interior of the blower piping, the air stripper unit, and the ventilation stack and found no obstructions. Delmar repaired a malfunctioned blower pressure sensor and suggested that the blower air flow switch may also be faulty. Delmar lubricated the blower air flow switch and realigned the switch perpendicular to air flow and restarted system.

25 June 2014: EA and Delmar Electric met on-site to install new pressure gauge on blower and further trouble shoot the low flow alarms. It was determined that the low flow alarms were caused by a fault low flow switch. A new switch has been ordered and will be replaced once received. In the meantime, the faulty switch was bypassed to eliminate the false alarms. If the system alarms for any reason other than the flow switch, it will shut down and call out.

27 June 2014: EA on-site responding to system warning alarm. PW10-1 high level and RP-01 high pressure alarm were activated. EA inspected PW10-1 hotbox and observed small leak in piping from pump to trailer influent line. Piping was replaced and water was removed from sump. The system was operational during this period

EA Engineering P.C. and its Affiliate,
EA Science and Technology

OPERATIONS AND MAINTENANCE INSPECTION REPORT
Groundwater Pumping Stations - IRP Sites 10 and 13
Niagara Falls Air Reserve Station

Date of Inspection: 23 July 2014 **Weather:** 75F Overcast

Names of EA Inspectors: Frank DeSantis

Other Personnel Present/Company: None

Pumping Station Number	PW10-1	PW10-2	PW13-1	PW13-4D
Previous Totalizer Reading (gals.) (6/25/14)	144,446	NA	80,901	383,587
Totalizer Reading (gals.)	147,250	NA	94,653	399,638
Date/Time of Reading	7-23-14/11:15	NA	7-23-14/13:10	7-23-14/13:24
Water level depth (feet TOIC)	11.09	19.75	17.14	17.81
Total well depth (feet TOIC)	13.08	25.02	27.42	22.85
Date/Time of sample collection	NA	NA	7-23-14/13:14	7-23-14/13:28
Pump running at inspect.? (Y/N)	Y	N	Y	N
Pressure during pumping (psig)	50	NA	1	0
Flow rate (gpm)	6.0	NA	1.2	4.0
Condition Check Items (G = good, F = fair, P = poor; Y = yes, N = no, N/A = not applicable)				
Enclosure (G/F/P)	G	G	G	G
Lock (G/F/P)	G	NA	G	G
Concrete pad (G/F/P)	G	NA	G	G
Are circuit breakers tripped? (Y/N)	N	N	N	N
Panel boards (G/F/P)	NA	NA	G	G
Electrical connections in well enclosure (G/F/P)	G	G	G	G
Run/Stop panel lights (G/P)	NA	NA	G	G
Trip test pump (Y/N/NA)	Y	N	N	N
Evidence of leaks? (Y/N)	N	N	N	N
Is sump dry? (Y/N)	Y	N[(a)]	Y	Y
Is heater working? (Y/N/NA)	NA	NA	NA	NA
Alarm conditions (describe)	NONE	NA	NONE	NONE

Comments/Maintenance performed:

(a) ~ 1.5ft of water observed in enclosure.

PW13-1: Turned off at 13:19 for 3-month cycle
PW13-4D: Turned off at 13:37 for 3-month cycle

Key: gpm = Gallons per minute gals = Gallons N/A = Not applicable N/M = Not measured

OPERATIONS AND MAINTENANCE INSPECTION CHECKLIST

Site 10 Groundwater Treatment Trailer **Niagara Falls Air Reserve Station**

Date & time of inspection: 23 July 2014 10:00 **Weather**: 75F Overcast

Inspection personnel: EA- Frank DeSantis

Totalizer Readings

	Date	Time	EQ Tank (Gallons)	Effluent Meter (Gal)
Prev. Reading	6/25/2014	14:38	7,191,840	68,517
Current Reading	10:01	14:38	7,220,130	85,352

Effluent Sample Data

Sample Date:	7/23/14
Sample Time:	09:50
Sample ID:	PW10-EFFL-JUL14

Analyses:
☑ VOCs - 8260
☑Metals – 6010 Cu, Pb, Ni, Zn

If answers to inspection criteria are in shaded spaces, inspection personnel must provide corrective actions taken, as well as comments and/or recommendations.

	Yes	No	Comments
Trailer exterior:			
Are there any signs of vandalism or burglary?		X	
Are there any signs of the trailer shifting, heaving, or settling?		X	
Are there any signs of damage to the vent stack?		X	
Are there any other signs of damage to the exterior of the trailer?		X	
Is the yard hydrant (potable water supply) operating properly?	X		
Are the trailer tie-down straps secure?	X		
Does outdoor GFCI outlet test and reset properly?	X		
Are outdoor flood lights functional?	X		
Trailer interior:			
Is there any standing water or signs of water damage?		X	
Process piping:			
Are there any signs of damage, failure, or stress that may compromise the integrity of either the interior process piping or the exterior connections?		X	
Are there any signs of damage, failure, or stress that may compromise the integrity of any valves?		X	
Electrical and control panels:			
Are there any signs of damage, failure, or stress that may compromise the integrity of the electrical panels?		X	
Do all green indicator lights on the main control panel illuminate during component operation?	X		
Are all control switches in the "AUTO" position? If no, explain.	X		
Are any red alarm indicator lights illuminated?		X	Specify: Low anti-scalant
Is the RP-2 elapsed time meter operational?	X		Reading: 800,470 Date/Time: 7/23/14 10:06
Is the system shut-down elapsed time meter operational?	X		Reading: 134.6 Date/Time: 7/23/14 10:07
Is the E-CON Kilowatt-hour meter operational?	X		Reading: 0.3.3.0 Date/Time: 7/23/14 10:07

OPERATIONS AND MAINTENANCE INSPECTION CHECKLIST Date: 23 July 2014
Site 10 Groundwater Treatment Trailer, Niagara Falls Air Reserve Station

If answers to inspection criteria are in shaded spaces, inspection personnel must provide corrective actions taken, as well as comments and/or recommendations.

	Yes	No	Comments
Equalization tank/stripper sump tanks:			
Are there any signs of damage, failure, or stress that may compromise the integrity of the tanks?		X	
EQ tank feed pump:			
Is the feed pump operating properly?	X		Sight glass (rotameter): 6.5 gpm
Are there any signs of damage or excessive wear to the pump, wiring, piping, or rotameter?		X	
Cartridge filter:			
Is the cartridge filter in use?		X	
Antiscalant chemical metering system:			
Is there an adequate amount of antiscalant chemical in the storage tank? [Provide the approximate chemical level.]	X		Tank level: 3 gallons
Is the antiscalant chemical metering pump operating properly?	X		Stroke: 40 Speed: 40
Are there any signs of damage or excessive wear to the pump, tank, or lines?		X	
Air stripper:			
Is the air stripper blower operating properly?	X		Blower pressure: 11 inches H2O
Are there any leaks or other signs of damage to the stripper unit, vent pipe, or other pipe connections?		X	
Stripper tank pump:			
Is the stripper sump pump operating properly?	X		
Are there any signs of damage or excessive wear?		X	
Activated carbon vessel:			
Is the carbon vessel currently in use?		X	
Effluent Flowmeter:			
Is the flowmeter functioning?	X		Flow Rate: 7 gpm
Pressure gauge readings: PI 5-1: 0 psi PI 5-2: N/A psi PI 6: 0 psi			
Electric heater (for inspection during cold months only; if heater is not on during inspection, turn thermostat up until heater turns on; reset thermostat after inspection):			
Is the heater fan operating properly?	X		Air temperature: 82 °F
Is warm air coming out of heater?	X		

Other Observations/Comments:

20 July 2014: System Warning call-out received from GWTS at 15:16.

23 July 2014: EA on-site for monthly O&M. System Warning call-out received on 20 July 2014 was result of Low Anti-scalant. Tank was filled to 30 gallons. Remaining anti-scalant used up, additional will be purchased in time for next O&M visit.

EA Engineering P.C. and its Affiliate,
EA Science and Technology

OPERATIONS AND MAINTENANCE INSPECTION REPORT
Groundwater Pumping Stations - IRP Sites 10 and 13
Niagara Falls Air Reserve Station

Date of Inspection: 27 August 2014 **Weather:** 75F Overcast

Names of EA Inspectors: Frank DeSantis and Nate Kranes

Other Personnel Present/Company: None

Pumping Station Number	PW10-1	PW10-2	PW13-1	PW13-4D
Previous Totalizer Reading (gals.) (7/23/14)	147,250	NA	94,653	399,638
Totalizer Reading (gals.)	156,134	NA	94,656	399,646
Date/Time of Reading	8/27/14 13:30	NA	8/27/14 11:05	8/27/14 11:12
Water level depth (feet TOIC)	11.09	19.75	6.91	9.24
Total well depth (feet TOIC)	13.08	25.02	27.31	22.92
Date/Time of sample collection	NA	NA	NA	NA
Pump running at inspect.? (Y/N)	Y	N	Y	N
Pressure during pumping (psig)	50	NA	NA	NA
Flow rate (gpm)	5.6	NA	NA	NA
Condition Check Items (G = good, F = fair, P = poor; Y = yes, N = no, N/A = not applicable)				
Enclosure (G/F/P)	G	G	G	G
Lock (G/F/P)	G	NA	G	G
Concrete pad (G/F/P)	G	NA	G	G
Are circuit breakers tripped? (Y/N)	N	N	N	N
Panel boards (G/F/P)	NA	NA	G	G
Electrical connections in well enclosure (G/F/P)	G	F[(a)]	G	G
Run/Stop panel lights (G/P)	NA	NA	G	G
Trip test pump (Y/N/NA)	Y	N	N	NA
Evidence of leaks? (Y/N)	N	N	N	N
Is sump dry? (Y/N)	Y	N[(b)]	Y	Y
Is heater working? (Y/N/NA)	NA	NA	NA	NA
Alarm conditions (describe)	NONE	NA	NONE	NONE

Comments/Maintenance performed:

(a) GFI not working. Will be replaced during next O&M visit
(b) ~ 4 ft of water in enclosure pumped out to ground surface.

Key: gpm = Gallons per minute gals = Gallons N/A = Not applicable N/M = Not measured

OPERATIONS AND MAINTENANCE INSPECTION CHECKLIST

Site 10 Groundwater Treatment Trailer **Niagara Falls Air Reserve Station**

Date & time of inspection: 27 August 2014 09:10 **Weather**: 70F Overcast

Inspection personnel: EA- Frank DeSantis and Nate Kranes

Totalizer Readings

	Date	Time	EQ Tank (Gallons)	Effluent Meter (Gal)
Prev. Reading	7/23/14	14:38	7,220,130	85,352
Current Reading	8/27/14	09:10	7,286,031	122,489

Effluent Sample Data

Sample Date:	8/27/14
Sample Time:	10:20
Sample ID:	PW10-EFFL-AUG14

Analyses:
☑ VOCs - 8260
☑Metals – 6010 Cu, Pb, Ni, Zn

If answers to inspection criteria are in shaded spaces, inspection personnel must provide corrective actions taken, as well as comments and/or recommendations.

	Yes	No	Comments
Trailer exterior:			
Are there any signs of vandalism or burglary?		X	
Are there any signs of the trailer shifting, heaving, or settling?		X	
Are there any signs of damage to the vent stack?		X	
Are there any other signs of damage to the exterior of the trailer?		X	
Is the yard hydrant (potable water supply) operating properly?	X		
Are the trailer tie-down straps secure?	X		
Does outdoor GFCI outlet test and reset properly?	X		
Are outdoor flood lights functional?	X		
Trailer interior:			
Is there any standing water or signs of water damage?		X	
Process piping:			
Are there any signs of damage, failure, or stress that may compromise the integrity of either the interior process piping or the exterior connections?		X	
Are there any signs of damage, failure, or stress that may compromise the integrity of any valves?		X	
Electrical and control panels:			
Are there any signs of damage, failure, or stress that may compromise the integrity of the electrical panels?		X	
Do all green indicator lights on the main control panel illuminate during component operation?	X		
Are all control switches in the "AUTO" position? If no, explain.	X		
Are any red alarm indicator lights illuminated?		X	Specify:
Is the RP-2 elapsed time meter operational?	X		Reading: 802,020 Date/Time: 8/27/14 09:15
Is the system shut-down elapsed time meter operational?	X		Reading: 134.6 Date/Time: 8/27/14 09:15
Is the E-CON Kilowatt-hour meter operational?	X		Reading: 0.3.8.0 Date/Time: 8/27/14 09:15

OPERATIONS AND MAINTENANCE INSPECTION CHECKLIST Date: 27 August 2014
Site 10 Groundwater Treatment Trailer, Niagara Falls Air Reserve Station

If answers to inspection criteria are in shaded spaces, inspection personnel must provide corrective actions taken, as well as comments and/or recommendations.

	Yes	No	Comments
Equalization tank/stripper sump tanks:			
Are there any signs of damage, failure, or stress that may compromise the integrity of the tanks?		X	
EQ tank feed pump:			
Is the feed pump operating properly?	X		Sight glass (rotameter): 6.5 gpm
Are there any signs of damage or excessive wear to the pump, wiring, piping, or rotameter?		X	Build-up in rotameter starting to make difficult to read
Cartridge filter:			
Is the cartridge filter in use?		X	
Antiscalant chemical metering system:			
Is there an adequate amount of antiscalant chemical in the storage tank? [Provide the approximate chemical level.]	X		Tank level: 5 gallons
Is the antiscalant chemical metering pump operating properly?	X		Stroke: 40 Speed: 40
Are there any signs of damage or excessive wear to the pump, tank, or lines?		X	
Air stripper:			
Is the air stripper blower operating properly?	X		Blower pressure: 11 inches H2O
Are there any leaks or other signs of damage to the stripper unit, vent pipe, or other pipe connections?		X	
Stripper tank pump:			
Is the stripper sump pump operating properly?	X		
Are there any signs of damage or excessive wear?		X	
Activated carbon vessel:			
Is the carbon vessel currently in use?		X	
Effluent Flowmeter:			
Is the flowmeter functioning?	X		Flow Rate: 7 gpm
Pressure gauge readings: PI 5-1: 0 psi PI 5-2: N/A psi PI 6: 0 psi			
Electric heater (for inspection during cold months only; if heater is not on during inspection, turn thermostat up until heater turns on; reset thermostat after inspection):			
Is the heater fan operating properly?	X		Air temperature: 72 °F
Is warm air coming out of heater?	X		
Other Observations/Comments: 27 August 2014: During monthly O&M, EA cleaned site rotameter and filled anti-scalant tank to 45 gallons.			

EA Engineering P.C. and its Affiliate,
EA Science and Technology

OPERATIONS AND MAINTENANCE INSPECTION REPORT
Groundwater Pumping Stations - IRP Sites 10 and 13
Niagara Falls Air Reserve Station

Date of Inspection: 24 September 2014 **Weather:** 50F Sunny

Names of EA Inspectors: Frank DeSantis and Nate Kranes

Other Personnel Present/Company: Delmar – Joe McCaffrey and Craig McCaffrey

Pumping Station Number	PW10-1	PW10-2	PW13-1	PW13-4D
Previous Totalizer Reading (gals.) (8/27/14)	156,134	NA	94,656	399,646
Totalizer Reading (gals.)	157,831	NA	94,656	399,646
Date/Time of Reading	9/24/14 08:15	NA	9/24/14 09:30	9/24/14 09:40
Water level depth (feet TOIC)	10.62	21.28	7.19	9.50
Total well depth (feet TOIC)	13.80	25.05	27.40	22.80
Date/Time of sample collection	NA	NA	NA	NA
Pump running at inspect.? (Y/N)	Y	N	N	N
Pressure during pumping (psig)	55	NA	NA	NA
Flow rate (gpm)	5.5	NA	NA	NA
Condition Check Items (G = good, F = fair, P = poor; Y = yes, N = no, N/A = not applicable)				
Enclosure (G/F/P)	G	G	F[(a)]	G
Lock (G/F/P)	G	NA	G	G
Concrete pad (G/F/P)	G	NA	G	G
Are circuit breakers tripped? (Y/N)	N	N	N	N
Panel boards (G/F/P)	NA	NA	G	G
Electrical connections in well enclosure (G/F/P)	G	G	G	G
Run/Stop panel lights (G/P)	NA	NA	G	G
Trip test pump (Y/N/NA)	Y	Y	N	N
Evidence of leaks? (Y/N)	N	N	N	N
Is sump dry? (Y/N)	Y	Y	Y	Y
Is heater working? (Y/N/NA)	Y	NA	Y	Y
Alarm conditions (describe)	NONE	NA	NONE	NONE

Comments/Maintenance performed:

24 September 2014: Faulty GFI observed at PW10-2 during August O&M was replaced. Heaters in PW10-1, PW13-1, and PW13-4D turned on for fall/winter conditions. Bag filter in PW10-1 replaced.
Delmar Electric performed quarterly electrical inspection. No issues noted.

(a) Several bolts on enclosure hinges noted to be excessively rusted and will be replaced during next O&M.

Key: gpm = Gallons per minute gals = Gallons N/A = Not applicable N/M = Not measured

OPERATIONS AND MAINTENANCE INSPECTION CHECKLIST

Site 10 Groundwater Treatment Trailer **Niagara Falls Air Reserve Station**

Date & time of inspection: 24 September 2014 07:00 **Weather**: 50F Sunny

Inspection personnel: EA-Frank DeSantis and Nate Kranes Delmar-Joe McCaffrey and Craig McCaffrey

Totalizer Readings

	Date	Time	EQ Tank (Gallons)	Effluent Meter (Gal)
Prev. Reading	8/27/14	09:10	7,286,031	122,489
Current Reading	9/24/14	07:05	7,309,088	137,559

Effluent Sample Data

Sample Date:	9/24/14	Analyses:
Sample Time:	07:50	☑ VOCs - 8260
Sample ID:	PW10-EFFL-SEPT14	☑Metals – 6010 Cu, Pb, Ni, Zn

If answers to inspection criteria are in shaded spaces, inspection personnel must provide corrective actions taken, as well as comments and/or recommendations.

	Yes	No	Comments
Trailer exterior:			
Are there any signs of vandalism or burglary?		X	
Are there any signs of the trailer shifting, heaving, or settling?		X	
Are there any signs of damage to the vent stack?		X	
Are there any other signs of damage to the exterior of the trailer?		X	
Is the yard hydrant (potable water supply) operating properly?	X		
Are the trailer tie-down straps secure?	X		
Does outdoor GFCI outlet test and reset properly?	X		
Are outdoor flood lights functional?	X		
Trailer interior:			
Is there any standing water or signs of water damage?		X	
Process piping:			
Are there any signs of damage, failure, or stress that may compromise the integrity of either the interior process piping or the exterior connections?		X	
Are there any signs of damage, failure, or stress that may compromise the integrity of any valves?		X	
Electrical and control panels:			
Are there any signs of damage, failure, or stress that may compromise the integrity of the electrical panels?		X	
Do all green indicator lights on the main control panel illuminate during component operation?	X		
Are all control switches in the "AUTO" position? If no, explain.	X		
Are any red alarm indicator lights illuminated?		X	Specify:
Is the RP-2 elapsed time meter operational?	X		Reading: 802,989 Date/Time: 9/24/14 07:15
Is the system shut-down elapsed time meter operational?	X		Reading: 134.6 Date/Time: 9/24/14 07:20
Is the E-CON Kilowatt-hour meter operational?	X		Reading: 0.3.9.9 Date/Time: 9/24/14 07:25

OPERATIONS AND MAINTENANCE INSPECTION CHECKLIST Date: 24 September 2014
Site 10 Groundwater Treatment Trailer, Niagara Falls Air Reserve Station

If answers to inspection criteria are in shaded spaces, inspection personnel must provide corrective actions taken, as well as comments and/or recommendations.

	Yes	No	Comments
Equalization tank/stripper sump tanks:			
Are there any signs of damage, failure, or stress that may compromise the integrity of the tanks?		X	
EQ tank feed pump:			
Is the feed pump operating properly?	X		Sight glass (rotameter): 6.5 gpm
Are there any signs of damage or excessive wear to the pump, wiring, piping, or rotameter?		X	
Cartridge filter:			
Is the cartridge filter in use?		X	
Antiscalant chemical metering system:			
Is there an adequate amount of antiscalant chemical in the storage tank? [Provide the approximate chemical level.]	X		Tank level: 38 gallons
Is the antiscalant chemical metering pump operating properly?	X		Stroke: 40 Speed: 40
Are there any signs of damage or excessive wear to the pump, tank, or lines?		X	
Air stripper:			
Is the air stripper blower operating properly?	X		Blower pressure: 14 inches H2O
Are there any leaks or other signs of damage to the stripper unit, vent pipe, or other pipe connections?		X	
Stripper tank pump:			
Is the stripper sump pump operating properly?	X		
Are there any signs of damage or excessive wear?		X	
Activated carbon vessel:			
Is the carbon vessel currently in use?		X	
Effluent Flowmeter:			
Is the flowmeter functioning?	X		Flow Rate: 9 gpm
Pressure gauge readings: PI 5-1: 0 psi PI 5-2: N/A psi PI 6: 0 psi			
Electric heater (for inspection during cold months only; if heater is not on during inspection, turn thermostat up until heater turns on; reset thermostat after inspection):			
Is the heater fan operating properly?	X		Air temperature: 65 °F
Is warm air coming out of heater?	X		
Other Observations/Comments: Delmar Electric on-site for quarterly electrical inspection. No issues were noted.			

EA Engineering P.C. and its Affiliate,
EA Science and Technology

OPERATIONS AND MAINTENANCE INSPECTION REPORT
Groundwater Pumping Stations - IRP Sites 10 and 13
Niagara Falls Air Reserve Station

Date of Inspection: 22 October 2014 **Weather:** 50F, Overcast

Names of EA Inspectors: Rob Peterson and Nate Kranes

Other Personnel Present/Company: Delmar – Craig and Joe McCaffrey

Pumping Station Number	PW10-1	PW10-2	PW13-1	PW13-4D
Previous Totalizer Reading (gals.) (9/24/14)	157,831	NA	94,656	399,646
Totalizer Reading (gals.)	159,341	NA	94,735	399,741
Date/Time of Reading	10/22/14 @ 11:25	NA	10/22/14 @ 11:38	10/22/14 @ 11:55
Water level depth (feet TOIC)	10.60	11.51	17.41	17.81
Total well depth (feet TOIC)	13.80	25.05	27.40	22.80
Date/Time of sample collection	NA	NA	10/22/14 @ 11:40	10/22/14 @ 11:55
Pump running at inspect.? (Y/N)	Y	N	Y	Y
Pressure during pumping (psig)	55	NA	2.5	1.0
Flow rate (gpm)	5.5	NA	22.5	6.0
Condition Check Items (G = good, F = fair, P = poor; Y = yes, N = no, N/A = not applicable)				
Enclosure (G/F/P)	G	G	G	G
Lock (G/F/P)	G	NA	G	G
Concrete pad (G/F/P)	G	NA	G	G
Are circuit breakers tripped? (Y/N)	N	N	N	N
Panel boards (G/F/P)	NA	NA	G	G
Electrical connections in well enclosure (G/F/P)	G	G	G	G
Run/Stop panel lights (G/P)	NA	NA	G	G
Trip test pump (Y/N/NA)	Y	Y	N	N
Evidence of leaks? (Y/N)	N	N	N	N
Is sump dry? (Y/N)	Y	N[(a)]	Y	Y
Is heater working? (Y/N/NA)	Y	NA	Y	Y
Alarm conditions (describe)	NONE	NA	NONE	NONE

Comments/Maintenance performed:

22 October 2014: Delmar Electric performed Site 13 quarterly electrical inspection. No issues noted.
EA replaced bag filters at PW13-1 and PW13-4D.

(a) 0.5 feet of water in vault.

Pumps at site 13 turned on for 3 month cycle.

Pumps 13-1and 13-4D started at 10:10

Key: gpm = Gallons per minute gals = Gallons N/A = Not applicable N/M = Not measured

OPERATIONS AND MAINTENANCE INSPECTION CHECKLIST

Site 10 Groundwater Treatment Trailer **Niagara Falls Air Reserve Station**

Date & time of inspection: 22 October 2014 **Weather**: 50F, Overcast

Inspection personnel: EA-Rob Peterson and Nate Kranes Delmar-Craig and Joe McCaffrey

Totalizer Readings

	Date	Time	EQ Tank (Gallons)	Effluent Meter (Gal)
Prev. Reading	9/24/14	07:05	7,309,088	137,559
Current Reading	10/22/14	11:00	7,332,574	151,452

Effluent Sample Data

Sample Date:	10/22/14
Sample Time:	11:08
Sample ID:	PW10-EFFL-OCT14

Analyses:
☑ VOCs - 8260
☑Metals – 6010 Cu, Pb, Ni, Zn

If answers to inspection criteria are in shaded spaces, inspection personnel must provide corrective actions taken, as well as comments and/or recommendations.

	Yes	No	Comments
Trailer exterior:			
Are there any signs of vandalism or burglary?		X	
Are there any signs of the trailer shifting, heaving, or settling?		X	
Are there any signs of damage to the vent stack?		X	
Are there any other signs of damage to the exterior of the trailer?		X	
Is the yard hydrant (potable water supply) operating properly?	X		
Are the trailer tie-down straps secure?	X		
Does outdoor GFCI outlet test and reset properly?	X		
Are outdoor flood lights functional?	X		
Trailer interior:			
Is there any standing water or signs of water damage?		X	
Process piping:			
Are there any signs of damage, failure, or stress that may compromise the integrity of either the interior process piping or the exterior connections?		X	
Are there any signs of damage, failure, or stress that may compromise the integrity of any valves?		X	
Electrical and control panels:			
Are there any signs of damage, failure, or stress that may compromise the integrity of the electrical panels?		X	
Do all green indicator lights on the main control panel illuminate during component operation?	X		
Are all control switches in the "AUTO" position? If no, explain.	X		
Are any red alarm indicator lights illuminated?		X	Specify:
Is the RP-2 elapsed time meter operational?	X		Reading: 803,874 Date/Time: 10/22/14 11:00
Is the system shut-down elapsed time meter operational?	X		Reading: 134.6 Date/Time: 10/22/14 11:00
Is the E-CON Kilowatt-hour meter operational?	X		Reading: 0.4.2.1 Date/Time: 10/22/14 11:00

OPERATIONS AND MAINTENANCE INSPECTION CHECKLIST Date: 22 October 2014
Site 10 Groundwater Treatment Trailer, Niagara Falls Air Reserve Station

If answers to inspection criteria are in shaded spaces, inspection personnel must provide corrective actions taken, as well as comments and/or recommendations.

	Yes	No	Comments
Equalization tank/stripper sump tanks:			
Are there any signs of damage, failure, or stress that may compromise the integrity of the tanks?		X	
EQ tank feed pump:			
Is the feed pump operating properly?	X		Sight glass (rotameter): 6.5 gpm
Are there any signs of damage or excessive wear to the pump, wiring, piping, or rotameter?		X	
Cartridge filter:			
Is the cartridge filter in use?		X	
Antiscalant chemical metering system:			
Is there an adequate amount of antiscalant chemical in the storage tank? [Provide the approximate chemical level.]	X		Tank level: 35 gallons
Is the antiscalant chemical metering pump operating properly?	X		Stroke: 40 Speed: 40
Are there any signs of damage or excessive wear to the pump, tank, or lines?		X	
Air stripper:			
Is the air stripper blower operating properly?	X		Blower pressure: 14 inches H2O
Are there any leaks or other signs of damage to the stripper unit, vent pipe, or other pipe connections?		X	
Stripper tank pump:			
Is the stripper sump pump operating properly?	X		
Are there any signs of damage or excessive wear?		X	
Activated carbon vessel:			
Is the carbon vessel currently in use?		X	
Effluent Flowmeter:			
Is the flowmeter functioning?	X		Flow Rate: 9 gpm
Pressure gauge readings: PI 5-1: 0 psi PI 5-2: N/A psi PI 6: 0 psi			
Electric heater (for inspection during cold months only; if heater is not on during inspection, turn thermostat up until heater turns on; reset thermostat after inspection):			
Is the heater fan operating properly?	X		Air temperature: 65 °F
Is warm air coming out of heater?	X		
Other Observations/Comments: 22 October 2014: Delmar Electric performed Site 13 quarterly electrical inspection. No issues noted.			

EA Engineering P.C. and its Affiliate,
EA Science and Technology

OPERATIONS AND MAINTENANCE INSPECTION REPORT
Groundwater Pumping Stations - IRP Sites 10 and 13
Niagara Falls Air Reserve Station

Date of Inspection: 26 November 2014 **Weather:** 32°F, Mostly Cloudy

Names of EA Inspectors: Rob Peterson and Nate Kranes

Other Personnel Present/Company: None

Pumping Station Number	PW10-1	PW10-2	PW13-1	PW13-4D
Previous Totalizer Reading (gals.) (10/22/14)	159,341	NA	94,735	399,741
Totalizer Reading (gals.)	160,588	NA	113,469	423,273
Date/Time of Reading	11/26/14 @ 10:13	NA	11/26/14 @ 10:30	11/26/14 @ 10:40
Water level depth (feet TOIC)	10.58	11.72	20.07	18.80
Total well depth (feet TOIC)	13.80	25.05	27.40	22.80
Date/Time of sample collection	NA	NA	11/26/14 @ 10:32	11/26/14 @ 10:45
Pump running at inspect.? (Y/N)	Y	N	Y	Y
Pressure during pumping (psig)	55	NA	1.0	1.0
Flow rate (gpm)	5.5	NA	6.0	6.0
Condition Check Items (G = good, F = fair, P = poor; Y = yes, N = no, N/A = not applicable)				
Enclosure (G/F/P)	G	G	G	G
Lock (G/F/P)	G	NA	G	G
Concrete pad (G/F/P)	G	NA	G	G
Are circuit breakers tripped? (Y/N)	N	N	N	N
Panel boards (G/F/P)	NA	NA	G	G
Electrical connections in well enclosure (G/F/P)	G	G	G	G
Run/Stop panel lights (G/P)	NA	NA	G	G
Trip test pump (Y/N/NA)	Y	Y	N	N
Evidence of leaks? (Y/N)	N	N	N	N
Is sump dry? (Y/N)	Y	N[(a)]	Y	Y
Is heater working? (Y/N/NA)	Y	NA	Y	Y
Alarm conditions (describe)	NONE	NA	NONE	NONE

Comments/Maintenance performed:

EA recalibrated and reset PW13-1 totalizer. Totalizer reading collected and recorded prior to recalibration.

(a) 0.5 feet of water in vault.

Key: gpm = Gallons per minute gals = Gallons N/A = Not applicable N/M = Not measured

OPERATIONS AND MAINTENANCE INSPECTION CHECKLIST

Site 10 Groundwater Treatment Trailer **Niagara Falls Air Reserve Station**

Date & time of inspection: 26 November 2014 **Weather**: 32°F, Mostly Cloudy

Inspection personnel: EA - Rob Peterson and Nate Kranes

Totalizer Readings

	Date	Time	EQ Tank (Gallons)	Effluent Meter (Gal)
Prev. Reading	10/22/14	11:00	7,332,574	151,452
Current Reading	11/26/14	09:50	7,359,067	166,802

Effluent Sample Data

Sample Date:	11/26/14
Sample Time:	09:56
Sample ID:	PW10-EFFL-NOV14

Analyses:
☑ VOCs - 8260
☑Metals – 6010 Cu, Pb, Ni, Zn

If answers to inspection criteria are in shaded spaces, inspection personnel must provide corrective actions taken, as well as comments and/or recommendations.

	Yes	No	Comments
Trailer exterior:			
Are there any signs of vandalism or burglary?		X	
Are there any signs of the trailer shifting, heaving, or settling?		X	
Are there any signs of damage to the vent stack?		X	
Are there any other signs of damage to the exterior of the trailer?		X	
Is the yard hydrant (potable water supply) operating properly?	X		
Are the trailer tie-down straps secure?	X		
Does outdoor GFCI outlet test and reset properly?	X		
Are outdoor flood lights functional?	X		
Trailer interior:			
Is there any standing water or signs of water damage?		X	
Process piping:			
Are there any signs of damage, failure, or stress that may compromise the integrity of either the interior process piping or the exterior connections?		X	
Are there any signs of damage, failure, or stress that may compromise the integrity of any valves?		X	
Electrical and control panels:			
Are there any signs of damage, failure, or stress that may compromise the integrity of the electrical panels?		X	
Do all green indicator lights on the main control panel illuminate during component operation?	X		
Are all control switches in the "AUTO" position? If no, explain.	X		
Are any red alarm indicator lights illuminated?		X	Specify:
Is the RP-2 elapsed time meter operational?	X		Reading: 804,885 Date/Time: 11/26/14 09:52
Is the system shut-down elapsed time meter operational?	X		Reading: 134.6 Date/Time: 11/26/14 09:52
Is the E-CON Kilowatt-hour meter operational?	X		Reading: 0.4.9.6 Date/Time: 11/26/14 09:52

OPERATIONS AND MAINTENANCE INSPECTION CHECKLIST Date: 26 November 2014
Site 10 Groundwater Treatment Trailer, Niagara Falls Air Reserve Station

If answers to inspection criteria are in shaded spaces, inspection personnel must provide corrective actions taken, as well as comments and/or recommendations.

	Yes	No	Comments
Equalization tank/stripper sump tanks:			
Are there any signs of damage, failure, or stress that may compromise the integrity of the tanks?		X	
EQ tank feed pump:			
Is the feed pump operating properly?	X		Sight glass (rotameter): 6.5 gpm
Are there any signs of damage or excessive wear to the pump, wiring, piping, or rotameter?		X	
Cartridge filter:			
Is the cartridge filter in use?		X	
Antiscalant chemical metering system:			
Is there an adequate amount of antiscalant chemical in the storage tank? [Provide the approximate chemical level.]	X		Tank level: 30 gallons
Is the antiscalant chemical metering pump operating properly?	X		Stroke: 40 Speed: 40
Are there any signs of damage or excessive wear to the pump, tank, or lines?		X	
Air stripper:			
Is the air stripper blower operating properly?	X		Blower pressure: 14 inches H2O
Are there any leaks or other signs of damage to the stripper unit, vent pipe, or other pipe connections?		X	
Stripper tank pump:			
Is the stripper sump pump operating properly?	X		
Are there any signs of damage or excessive wear?		X	
Activated carbon vessel:			
Is the carbon vessel currently in use?		X	
Effluent Flowmeter:			
Is the flowmeter functioning?	X		Flow Rate: 10 gpm
Pressure gauge readings: PI 5-1: 0 psi PI 5-2: N/A psi PI 6: 0 psi			
Electric heater (for inspection during cold months only; if heater is not on during inspection, turn thermostat up until heater turns on; reset thermostat after inspection):			
Is the heater fan operating properly?	X		Air temperature: 57 °F
Is warm air coming out of heater?	X		
Other Observations/Comments:			

EA Engineering P.C. and its Affiliate,
EA Science and Technology

OPERATIONS AND MAINTENANCE INSPECTION REPORT
Groundwater Pumping Stations - IRP Sites 10 and 13
Niagara Falls Air Reserve Station

Date of Inspection: 23 December 2014 **Weather:** 40°F, Overcast

Names of EA Inspectors: Rob Peterson and Nate Kranes

Other Personnel Present/Company: None

Pumping Station Number	PW10-1	PW10-2	PW13-1	PW13-4D
Previous Totalizer Reading (gals.) (11/26/14)	160,588	NA	113,469	423,273
Totalizer Reading (gals.)	162,692	NA	12,741	441,055
Date/Time of Reading	12/23/14 @ 09:04	NA	12/23/14 @ 09:17	12/23/14 @ 09:53
Water level depth (feet TOIC)	10.52	16.05	22.80	18.03
Total well depth (feet TOIC)	13.80	25.05	27.40	22.80
Date/Time of sample collection	NA	NA	12/23/14 @ 09:20	12/23/14 @ 09:55
Pump running at inspect.? (Y/N)	Y	N	Y	Y
Pressure during pumping (psig)	55	NA	2.0	1.0
Flow rate (gpm)	5.5	NA	6.2	6.0
Condition Check Items (G = good, F = fair, P = poor; Y = yes, N = no, N/A = not applicable)				
Enclosure (G/F/P)	G	G	G	G
Lock (G/F/P)	G	NA	G	G
Concrete pad (G/F/P)	G	NA	G	G
Are circuit breakers tripped? (Y/N)	N	N	N	N
Panel boards (G/F/P)	NA	NA	G	G
Electrical connections in well enclosure (G/F/P)	G	G	G	G
Run/Stop panel lights (G/P)	NA	NA	G	G
Trip test pump (Y/N/NA)	Y	Y	N	N
Evidence of leaks? (Y/N)	N	N	N	N
Is sump dry? (Y/N)	Y	N[(a)]	Y	Y
Is heater working? (Y/N/NA)	Y	NA	Y	Y
Alarm conditions (describe)	NONE	NA	NONE	NONE

Comments/Maintenance performed:

EA recalibrated and reset PW13-1 totalizer on 26 November 2014.

(a) 0.5 feet of water in vault.

Key: gpm = Gallons per minute gals = Gallons N/A = Not applicable N/M = Not measured

OPERATIONS AND MAINTENANCE INSPECTION CHECKLIST

Site 10 Groundwater Treatment Trailer **Niagara Falls Air Reserve Station**

Date & time of inspection: 23 December 2014 **Weather**: 40°F, Overcast

Inspection personnel: EA - Rob Peterson and Nate Kranes

Totalizer Readings

	Date	Time	EQ Tank (Gallons)	Effluent Meter (Gal)
Prev. Reading	11/26/14	09:50	7,359,067	166,802
Current Reading	12/23/14	08:38	7,388,974	184,293

Effluent Sample Data

Sample Date:	12/23/14
Sample Time:	08:40
Sample ID:	PW10-EFFL-DEC14

Analyses:
☑ VOCs - 8260
☑Metals – 6010 Cu, Pb, Ni, Zn

If answers to inspection criteria are in shaded spaces, inspection personnel must provide corrective actions taken, as well as comments and/or recommendations.

	Yes	No	Comments
Trailer exterior:			
Are there any signs of vandalism or burglary?		X	
Are there any signs of the trailer shifting, heaving, or settling?		X	
Are there any signs of damage to the vent stack?		X	
Are there any other signs of damage to the exterior of the trailer?		X	
Is the yard hydrant (potable water supply) operating properly?	X		
Are the trailer tie-down straps secure?	X		
Does outdoor GFCI outlet test and reset properly?	X		
Are outdoor flood lights functional?	X		
Trailer interior:			
Is there any standing water or signs of water damage?		X	
Process piping:			
Are there any signs of damage, failure, or stress that may compromise the integrity of either the interior process piping or the exterior connections?		X	
Are there any signs of damage, failure, or stress that may compromise the integrity of any valves?		X	
Electrical and control panels:			
Are there any signs of damage, failure, or stress that may compromise the integrity of the electrical panels?		X	
Do all green indicator lights on the main control panel illuminate during component operation?	X		
Are all control switches in the "AUTO" position? If no, explain.	X		
Are any red alarm indicator lights illuminated?		X	Specify:
Is the RP-2 elapsed time meter operational?	X		Reading: 805,764 Date/Time: 12/23/14 08:39
Is the system shut-down elapsed time meter operational?	X		Reading: 134.6 Date/Time: 12/23/14 08:39
Is the E-CON Kilowatt-hour meter operational?	X		Reading: 0.5.9.2 Date/Time: 12/23/14 08:39

OPERATIONS AND MAINTENANCE INSPECTION CHECKLIST Date: 23 December 2014
Site 10 Groundwater Treatment Trailer, Niagara Falls Air Reserve Station

If answers to inspection criteria are in shaded spaces, inspection personnel must provide corrective actions taken, as well as comments and/or recommendations.

	Yes	No	Comments
Equalization tank/stripper sump tanks:			
Are there any signs of damage, failure, or stress that may compromise the integrity of the tanks?		X	
EQ tank feed pump:			
Is the feed pump operating properly?	X		Sight glass (rotameter): 6.5 gpm
Are there any signs of damage or excessive wear to the pump, wiring, piping, or rotameter?		X	
Cartridge filter:			
Is the cartridge filter in use?		X	
Antiscalant chemical metering system:			
Is there an adequate amount of antiscalant chemical in the storage tank? [Provide the approximate chemical level.]	X		Tank level: 25 gallons
Is the antiscalant chemical metering pump operating properly?	X		Stroke: 40 Speed: 40
Are there any signs of damage or excessive wear to the pump, tank, or lines?		X	
Air stripper:			
Is the air stripper blower operating properly?	X		Blower pressure: 14 inches H2O
Are there any leaks or other signs of damage to the stripper unit, vent pipe, or other pipe connections?		X	
Stripper tank pump:			
Is the stripper sump pump operating properly?	X		
Are there any signs of damage or excessive wear?		X	
Activated carbon vessel:			
Is the carbon vessel currently in use?		X	
Effluent Flowmeter:			
Is the flowmeter functioning?	X		Flow Rate: 9 gpm
Pressure gauge readings: PI 5-1: 0 psi PI 5-2: N/A psi PI 6: 0 psi			
Electric heater (for inspection during cold months only; if heater is not on during inspection, turn thermostat up until heater turns on; reset thermostat after inspection):			
Is the heater fan operating properly?	X		Air temperature: 56 °F
Is warm air coming out of heater?	X		
Other Observations/Comments: EA recalibrated effluent totalizer on 23 December 2014.			

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Appendix E

Well Termination Data

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TABLE E-1

Well Termination Summary for Wells Sampled in 2014

Annual Groundwater Report 2014

Niagara Falls Air Reserve Station, New York

Site	Well ID	Total VOC (µg/L)	Meets Termination Criteria?	Meets Alternative Termination Criteria?	Well Type/Comment
Site 3	MW3-3DA	31.1	No	Yes	Shallow Bedrock
	MW3-4DA	21.2	No	No	Shallow Bedrock
	PW3-3A	3.8	No	No	Shallow Bedrock
	PZ3-6D	6.7	No	No	Shallow Bedrock
	PZ3-7D	36.2	No	No	Shallow Bedrock
	PZ3-8D	0.47	No	Yes	Shallow Bedrock
Site 5	MW5-1DA	0.9	No	Yes	Shallow Bedrock
	MW5-5D	43.6	No	No	Shallow Bedrock
	MW5-6	20.9	No	No	Overburden
	RW5-1	21.0	No	No	Overburden
	RW5-2	15.8	No	No	Overburden
	RW5-4	167.0	No	No	Overburden
Site 7	MW7-1D	7	No	No	Shallow Bedrock
Site 8	MW8-1	226.0	No	No	Overburden
	MW8-10D	12.9	No	Yes	Shallow Bedrock
Site 10	MW10-1DA	2,989	No	No	Shallow Bedrock
	MW10-3	487	No	No	Overburden
	MW10-3D	ND	Yes	Yes	Shallow Bedrock
	MW10-4D	50.0	No	No	Shallow Bedrock
	MW10-4E	14.3	No	Yes	Deep Bedrock
	MW10-7	31.1	No	No	Overburden
	MW10-9D	9.7	No	Yes	Shallow Bedrock
	PW10-1	310	No	No	Shallow Bedrock
	PW10-2	884	No	No	Shallow Bedrock
	PZ10-7	1.1	Yes	No	Overburden
Site 13	MW13-4D	26	No	Yes	Shallow Bedrock
	MW13-5D	24	No	Yes	Shallow Bedrock
	PW13-1	32	No	No	Shallow Bedrock
	PW13-4D	20	No	Yes	Shallow Bedrock

NOTE: ND = Not detected above reporting detection limit.

Total VOC (µg/L) = sum of volatile organic compounds with Groundwater Protection Standards in the Part 373 Permit, measured in micrograms per liter, from the most recent sampling event (October 2014 for all wells).

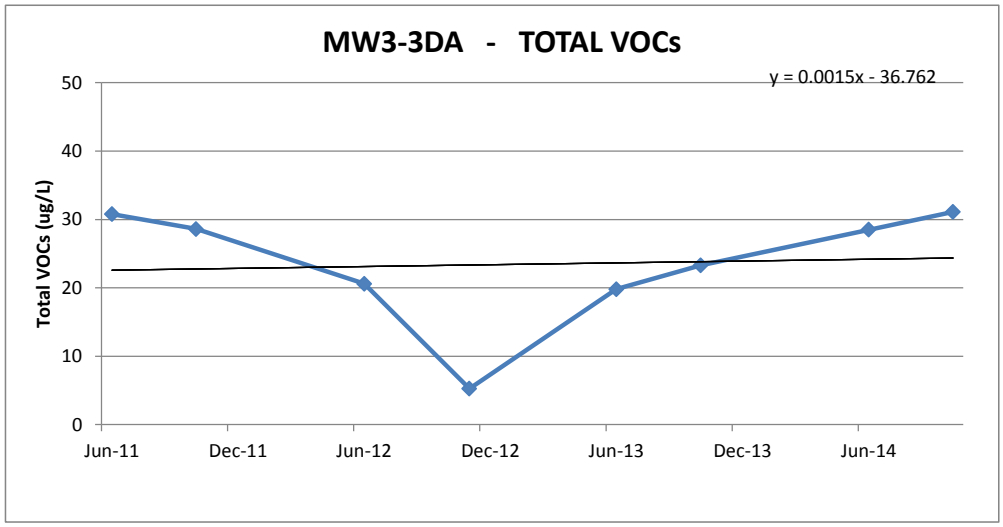
Appendix E
Analytical Data for Well Termination
Site 3, MW3-3DA
Niagara Falls Air Reserve Station, Niagara Falls, NY
January 2015

Parameter	GPS (ug/L)	Result (ug/L) 6/20/11	10/24/11	6/26/12	11/26/12	6/25/13	10/22/13	6/27/14	10/23/14
Carbon Tetrachloride	5.0	U	U	U	U	U	U	U	U
Chloroform	7.0	U	U	U	U	U	U	U	U
1,1-Dichloroethene	5.0	U	U	U	U	U	U	U	U
Cis-1,2-Dichlorothene	5.0	5.8	6.6	5.6	4.3	4.9	5.1	5.4	6.0
Trans -1,2-Dichloroethene	5.0	U	U	U	U	U	U	U	U
Trichloroethene	5.0	U	U	U	U	U	U	U	U
Vinyl Chloride	2.0	25	22	15	0.96 J	14.9	18.2	23.1	25.1
Benzene	1.0	U	U	U	U	U	U	U	U
Ethylbenzene	5.0	U	U	U	U	U	U	U	U
Toluene	5.0	U	U	U	U	U	U	U	U
Xylene (total)	5.0	U	U	U	U	U	U	U	U
TOTAL VOCs		**30.8**	**28.6**	**20.6**	**5.26**	**19.8**	**23.3**	**28.5**	**31.1**

Notes:

1. Shaded cells indicate exceedence of NYSDEC Groundwater Standard for contaminants of concern as defined in the NYSDEC Part 373 Permit.

GPS = groundwater protection standard
ug/L = microgram per liter
U = undetected
J = estimated



Termination Criteria (Module II.C.3.(c)(1)(iii)of the NYSDEC Part 373 Permit):

1. Does this well meet the termination criteria by achieving the GPSs for an equivalent of 4 years? **No**

Alternative Termination Criteria (Module II.C.3.(c)(1)(iii)(C) of the NYSDEC Part 373 Permit):

1. Does this well achieve "Zero Slope Condition" as defined in the permit? **No**
1.a. Plot sum of concentration of hazardous waste constituents from an equivalent of 4 years. See above
1.b. Fit a trendline (either linear or exponential) using least squares regression model. See above
1.c. The slope is less than or equal to zero. No

2. Does this well achieve the analytical concentration criteria for a minimum of four years? **Yes**
2.a. Is the total concentration of COCs less than 100 ug/L? Yes
2.b. Are single COCs less than 50 ug/L? Yes

3. Will the residual groundwater contamination result in an unacceptable risk to human health and the environment? Provide analysis. **No**

Site 3 is located on the west side of Cayuga Creek, with groundwater flowing east towards the creek. This well is located on the east side of Cayuga Creek with groundwater flowing west towards the creek. This well is used to monitor groundwater entering the creek/base from off-base. Therefore, analyte detections at this well are not representative of Site 3 groundwater.

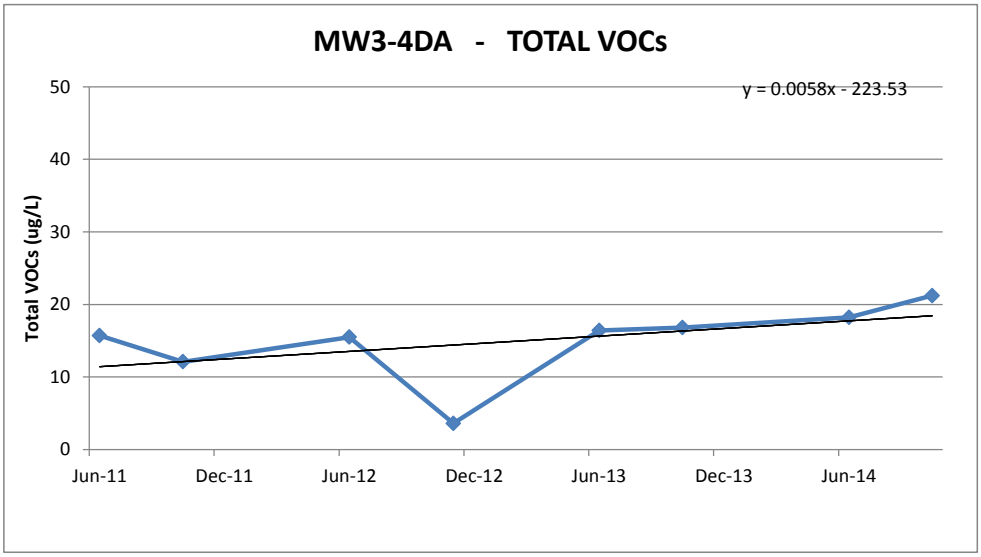
Appendix E
Analytical Data for Well Termination
Site 3, MW3-4DA
Niagara Falls Air Reserve Station, Niagara Falls, NY
January 2015

Parameter	GPS (ug/L)	Result (ug/L) 6/21/11	10/25/11	6/26/12	11/26/12	6/25/13	10/22/13	6/27/14		10/23/14	
Carbon Tetrachloride	5.0	U	U	U	U	U	U		U		U
Chloroform	7.0	U	U	U	U	U	U		U		U
1,1-Dichloroethene	5.0	U	U	U	U	U	U		U		U
Cis-1,2-Dichlorothene	5.0	4.7	4.1	5.5	3.6	4.6	4.6	5.6		5.7	
Trans -1,2-Dichloroethene	5.0	U	U	U	U	U	U		U		U
Trichloroethene	5.0	U	U	U	U	U	U		U		U
Vinyl Chloride	2.0	11	8	10	U	11.8	12.2	12.6		15.5	
Benzene	1.0	U	U	U	U	U	U		U		U
Ethylbenzene	5.0	U	U	U	U	U	U		U		U
Toluene	5.0	U	U	U	U	U	U		U		U
Xylene (total)	5.0	U	U	U	U	U	U		U		U
TOTAL VOCs		**15.7**	**12.1**	**15.5**	**3.6**	**16.4**	**16.8**	**18.2**		**21.2**	

Notes:

1. Shaded cells indicate exceedence of NYSDEC Groundwater Standard for contaminants of concern as defined in the NYSDEC Part 373 Permit.

GPS = groundwater protection standard
ug/L = microgram per liter
U = undetected
J = estimated



Termination Criteria (Module II.C.3.(c)(1)(iii)of the NYSDEC Part 373 Permit):

1. Does this well meet the termination criteria by achieving the GPSs for an equivalent of 4 years? **No**

Alternative Termination Criteria (Module II.C.3.(c)(1)(iii)(C) of the NYSDEC Part 373 Permit):

1. Does this well achieve "Zero Slope Condition" as defined in the permit? **No**
1.a. Plot sum of concentration of hazardous waste constituents from an equivalent of 4 years. See above
1.b. Fit a trendline (either linear or exponential) using least squares regression model. See above
1.c. The slope is less than or equal to zero. No

2. Does this well achieve the analytical concentration criteria for a minimum of four years? **Yes**
2.a. Is the total concentration of COCs less than 100 ug/L? Yes
2.b. Are single COCs less than 50 ug/L? Yes

3. Will the residual groundwater contamination result in an unacceptable risk to human health and the environment? Provide analysis. **No**

There is low risk at this site for the following reasons: 1) there are no drinking water wells at the installation or in the surrounding neighborhoods as local municipalities supply drinking water; 2) Land use controls for this site are in place with the implementation of a dig permit process in which any construction in this area would be identified prior to construction.

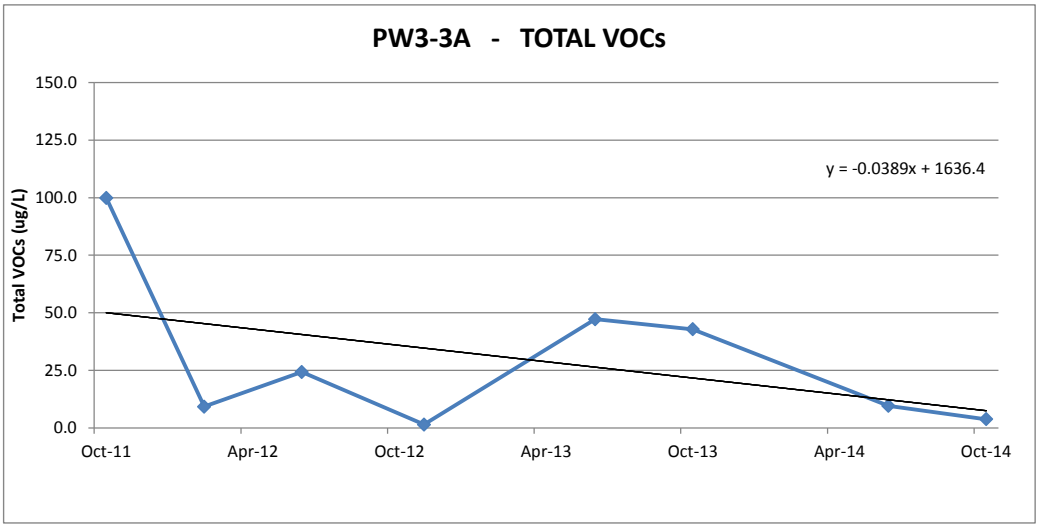
Appendix E
Analytical Data for Well Termination
Site 3, PW3-3A
Niagara Falls Air Reserve Station, Niagara Falls, NY
January 2015

Parameter	GPS (ug/L)	Result (ug/L) 10/25/11	2/2/12	6/26/12	11/27/12	6/25/13	10/22/13	6/27/14	10/23/14
Carbon Tetrachloride	5.0	U	U	U	U	U	U	U	U
Chloroform	7.0	1.9	U	0.16	U	0.9	U		U
1,1-Dichloroethene	5.0	0.23 J	U	U	U	U	U	U	U
Cis-1,2-Dichlorothene	5.0	60	6.1	16	1.1	27.7	22	4.9	2.6
Trans -1,2-Dichloroethene	5.0	1	U	0.24 J	U	U	0.55	U	U
Trichloroethene	5.0	5.5	0.51	1.5	0.32 J	2.4	1	0.8	0.72
Vinyl Chloride	2.0	31	2.6	6.4	U	16.2	19.3	3.9	0.46
Benzene	1.0	0.27 J	U	U	U	U	U	U	U
Ethylbenzene	5.0	U	U	U	U	U	U	U	U
Toluene	5.0	U	U	U	U	U	U	U	U
Xylene (total)	5.0	U	U	U	U	U	U	U	U
TOTAL VOCs		**99.9**	**9.21**	**24.3**	**1.42**	**47.2**	**42.9**	**9.6**	**3.78**

Notes:

1. Shaded cells indicate exceedence of NYSDEC Groundwater Standard for contaminants of concern as defined in the NYSDEC Part 373 Permit.

GPS = groundwater protection standard
ug/L = microgram per liter
U = undetected
J = estimated



Termination Criteria (Module II.C.3.(c)(1)(iii)of the NYSDEC Part 373 Permit):

1. Does this well meet the termination criteria by achieving the GPSs for an equivalent of 4 years? **No**

Alternative Termination Criteria (Module II.C.3.(c)(1)(iii)(C) of the NYSDEC Part 373 Permit):

1. Does this well achieve "Zero Slope Condition" as defined in the permit? **Yes**
1.a. Plot sum of concentration of hazardous waste constituents from an equivalent of 4 years. See above
(Note: The data trend reflects post-pumping conditions, since May 2011)
1.b. Fit a trendline (either linear or exponential) using least squares regression model. See above
1.c. The slope is less than or equal to zero. Yes

2. Does this well achieve the analytical concentration criteria for a minimum of four years? **No**
2.a. Is the total concentration of COCs less than 100 ug/L? Yes
2.b. Are single COCs less than 50 ug/L? No

3. Will the residual groundwater contamination result in an unacceptable risk to human health and the environment? Provide analysis. **No**

There is low risk at this site for the following reasons: 1) there are no drinking water wells at the installation or in the surrounding neighborhoods as local municipalities supply drinking water; 2) Land use controls for this site are in place with the implementation of a dig permit process in which any construction in this area would be identified prior to construction; 3) Although groundwater may discharge to Cayuga Creek when the creek is in a gaining condition, the contamination levels that remain at this site are low (total VOCs in May and October 2013 <50 ug/L); furthermore there have been no VOC detections at the 3 surface water locations monitored for this site since 2002.

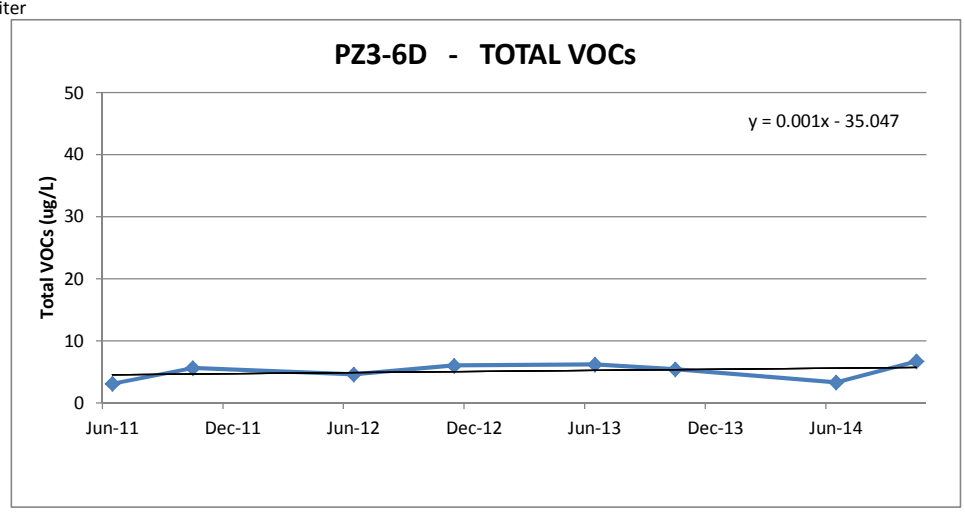
Appendix E
Analytical Data for Well Termination
Site 3, PZ3-6D
Niagara Falls Air Reserve Station, Niagara Falls, NY
January 2015

Parameter	GPS (ug/L)	Result (ug/L) 6/20/11	10/24/11	6/26/12	11/26/12	6/25/13	10/22/13	6/27/14	10/23/14
Carbon Tetrachloride	5.0	U	U	U	U	U	U	U	U
Chloroform	7.0	U	U	U	U	U	U	U	U
1,1-Dichloroethene	5.0	U	U	U	U	U	U	U	U
Cis-1,2-Dichlorothene	5.0	1	2.3	1.9	2.2	2.2	1.9	1.1	2.0
Trans -1,2-Dichloroethene	5.0	U	U	U	U	U	U	U	U
Trichloroethene	5.0	U	U	U	U	U	U	U	U
Vinyl Chloride	2.0	2.1	3.3	2.7	3.8	4	3.5	2.2	4.7
Benzene	1.0	U	U	U	U	U	U	U	U
Ethylbenzene	5.0	U	U	U	U	U	U	U	U
Toluene	5.0	U	U	U	U	U	U	U	U
Xylene (total)	5.0	U	U	U	U	U	U	U	U
TOTAL VOCs		**3.1**	**5.6**	**4.6**	**6**	**6.2**	**5.4**	**3.3**	**6.7**

Notes:

1. Shaded cells indicate exceedence of NYSDEC Groundwater Standard for contaminants of concern as defined in the NYSDEC Part 373 Permit.

GPS = groundwater protection standard
ug/L = microgram per liter
U = undetected
J = estimated



Termination Criteria (Module II.C.3.(c)(1)(iii)of the NYSDEC Part 373 Permit):

1. Does this well meet the termination criteria by achieving the GPSs for an equivalent of 4 years? **No**

Alternative Termination Criteria (Module II.C.3.(c)(1)(iii)(C) of the NYSDEC Part 373 Permit):

1. Does this well achieve "Zero Slope Condition" as defined in the permit? **No**
1.a. Plot sum of concentration of hazardous waste constituents from an equivalent of 4 years. See above
1.b. Fit a trendline (either linear or exponential) using least squares regression model. See above
1.c. The slope is less than or equal to zero. No

2. Does this well achieve the analytical concentration criteria for a minimum of four years? **Yes**
2.a. Is the total concentration of COCs less than 100 ug/L? Yes
2.b. Are single COCs less than 50 ug/L? Yes

3. Will the residual groundwater contamination result in an unacceptable risk to human health and the environment? Provide analysis. **No**

Site 3 is located on the west side of Cayuga Creek, with groundwater flowing east towards the creek. This well is located on the east side of Cayuga Creek with groundwater flowing west towards the creek. This well is used to monitor groundwater entering the creek/base from off-base. Therefore, analyte detections at this well are not representative of Site 3 groundwater.

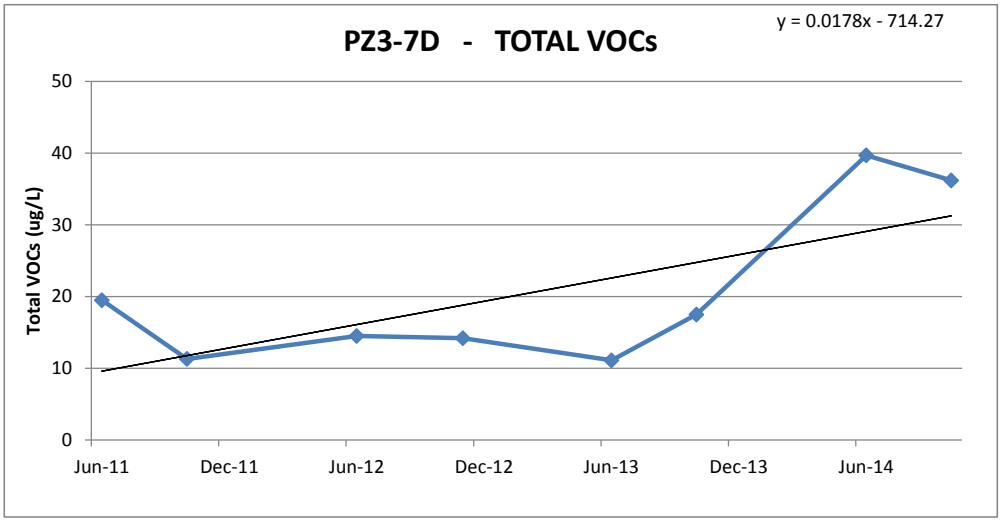
Appendix E
Analytical Data for Well Termination
Site 3, PZ3-7D
Niagara Falls Air Reserve Station, Niagara Falls, NY
January 2015

Parameter	GPS (ug/L)	Result (ug/L) 6/21/11	10/25/11	6/26/12	11/26/12	6/25/13	10/22/13	6/27/14	10/23/14
Carbon Tetrachloride	5.0	U	U	U	U	U	U	U	U
Chloroform	7.0	U	U	U	U	U	U	U	U
1,1-Dichloroethene	5.0	U	U	U	U	U	U	U	U
Cis-1,2-Dichlorothene	5.0	4.5	3.6	4.6	4.4	3.4	4.3	8.0	8.8
Trans -1,2-Dichloroethene	5.0	U	U	U	U	U	U	U	U
Trichloroethene	5.0	U	U	U	U	U	U	U	U
Vinyl Chloride	2.0	15	7.7	9.9	9.8	7.7	13.2	31.7	27.4
Benzene	1.0	U	U	U	U	U	U	U	U
Ethylbenzene	5.0	U	U	U	U	U	U	U	U
Toluene	5.0	U	U	U	U	U	U	U	U
Xylene (total)	5.0	U	U	U	U	U	U	U	U
TOTAL VOCs		**19.5**	**11.3**	**14.5**	**14.2**	**11.1**	**17.5**	**39.7**	**36.2**

Notes:

1. Shaded cells indicate exceedence of NYSDEC Groundwater Standard for contaminants of concern as defined in the NYSDEC Part 373 Permit.

GPS = groundwater protection standard
ug/L = microgram per liter
U = undetected
J = estimated



Termination Criteria (Module II.C.3.(c)(1)(iii)of the NYSDEC Part 373 Permit):

1. Does this well meet the termination criteria by achieving the GPSs for an equivalent of 4 years? **No**

Alternative Termination Criteria (Module II.C.3.(c)(1)(iii)(C) of the NYSDEC Part 373 Permit):

1. Does this well achieve "Zero Slope Condition" as defined in the permit? **No**
1.a. Plot sum of concentration of hazardous waste constituents from an equivalent of 4 years. See above
1.b. Fit a trendline (either linear or exponential) using least squares regression model. See above
1.c. The slope is less than or equal to zero. No

2. Does this well achieve the analytical concentration criteria for a minimum of four years? **Yes**
2.a. Is the total concentration of COCs less than 100 ug/L? Yes
2.b. Are single COCs less than 50 ug/L? Yes

3. Will the residual groundwater contamination result in an unacceptable risk to human health and the environment? Provide analysis. **No**

Site 3 is located on the west side of Cayuga Creek, with groundwater flowing east towards the creek. This well is located on the east side of Cayuga Creek with groundwater flowing west towards the creek. This well is used to monitor groundwater entering the creek/base from off-base. Therefore, analyte detections at this well are not representative of Site 3 groundwater.

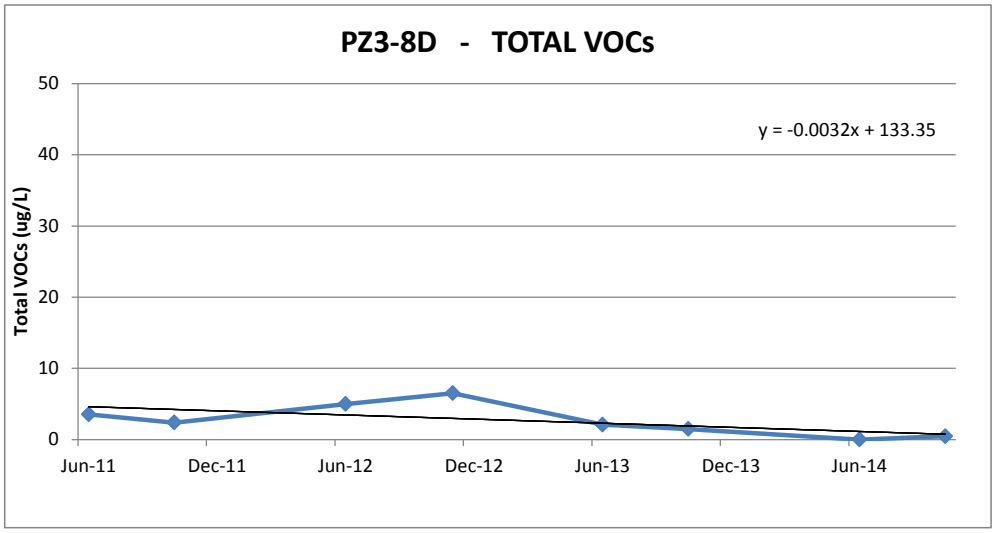
Appendix E
Analytical Data for Well Termination
Site 3, PZ3-8D
Niagara Falls Air Reserve Station, Niagara Falls, NY
January 2015

Parameter	GPS (ug/L)	Result (ug/L) 6/21/11	10/25/11	6/26/12	11/26/12	6/25/13	10/22/13	6/27/14	10/23/14
Carbon Tetrachloride	5.0	U	U	U	U	U	U	U	U
Chloroform	7.0	U	U	U	U	U	U	U	U
1,1-Dichloroethene	5.0	U	U	U	U	U	U	U	U
Cis-1,2-Dichlorothene	5.0	0.63 J	0.59 J	1	1.3	U	U	U	U
Trans -1,2-Dichloroethene	5.0	U	U	U	U	U	U	U	U
Trichloroethene	5.0	U	U	U	U	U	U	U	U
Vinyl Chloride	2.0	2.9	1.8	4.0	5.2	2.1	1.5	U	0.47
Benzene	1.0	U	U	U	U	U	U	U	U
Ethylbenzene	5.0	U	U	U	U	U	U	U	U
Toluene	5.0	U	U	U	U	U	U	U	U
Xylene (total)	5.0	U	U	U	U	U	U	U	U
TOTAL VOCs		**3.53**	**2.39**	**5**	**6.5**	**2.1**	**1.5**	**0**	**0.47**

Notes:

1. Shaded cells indicate exceedence of NYSDEC Groundwater Standard for contaminants of concern as defined in the NYSDEC Part 373 Permit.

GPS = groundwater protection standard
ug/L = microgram per liter
U = undetected
J = estimated



Termination Criteria (Module II.C.3.(c)(1)(iii)of the NYSDEC Part 373 Permit):

1. Does this well meet the termination criteria by achieving the GPSs for an equivalent of 4 years? **No**

Alternative Termination Criteria (Module II.C.3.(c)(1)(iii)(C) of the NYSDEC Part 373 Permit):

1. Does this well achieve "Zero Slope Condition" as defined in the permit? **Yes**
1.a. Plot sum of concentration of hazardous waste constituents from an equivalent of 4 years. See above
1.b. Fit a trendline (either linear or exponential) using least squares regression model. See above
1.c. The slope is less than or equal to zero. Yes

2. Does this well achieve the analytical concentration criteria for a minimum of four years? **Yes**
2.a. Is the total concentration of COCs less than 100 ug/L? Yes
2.b. Are single COCs less than 50 ug/L? Yes

3. Will the residual groundwater contamination result in an unacceptable risk to human health and the environment? Provide analysis. **No**

Site 3 is located on the west side of Cayuga Creek, with groundwater flowing east towards the creek. This well is located on the east side of Cayuga Creek with groundwater flowing west towards the creek. This well is used to monitor groundwater entering the creek/base from off-base. Therefore, analyte detections at this well are not representative of Site 3 groundwater.

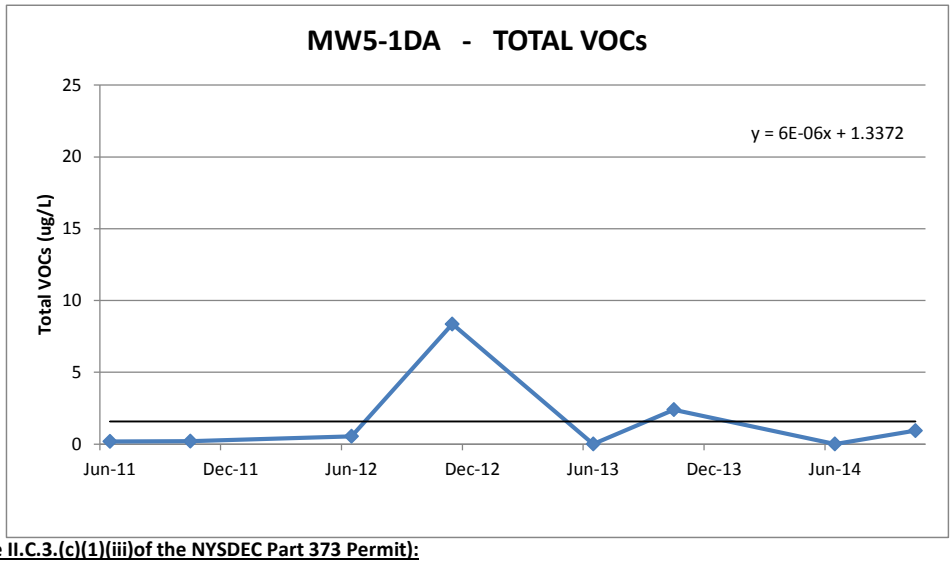
Appendix E
Analytical Data for Well Termination
Site 5, MW5-1DA
Niagara Falls Air Reserve Station, Niagara Falls, NY
January 2015

Parameter	GPS (ug/L)	Result (ug/L) 6/21/11	10/25/11	6/26/12	11/27/12	6/25/13	10/22/13	6/27/14	10/23/14
Carbon Tetrachloride	5.0	U	U	U	U	U	U	U	U
Chloroform	7.0	U	U	U	U	U	U	U	U
1,1-Dichloroethene	5.0	U	U	U	U	U	U	U	U
Cis-1,2-Dichlorothene	5.0	0.18 J	0.21 J	0.38 J	6.3	U	2.4	U	0.94
Trans -1,2-Dichloroethene	5.0	U	U	U	U	U	U	U	U
Trichloroethene	5.0	U	U	0.17 J	0.16 J	U	U	U	U
Vinyl Chloride	2.0	U	U	U	1.9	U	U	U	U
Benzene	1.0	U	U	U	U	U	U	U	U
Ethylbenzene	5.0	U	U	U	U	U	U	U	U
Toluene	5.0	U	U	U	U	U	U	U	U
Xylene (total)	5.0	U	U	U	U	U	U	U	U
TOTAL VOCs		**0.18**	**0.21**	**0.55**	**8.36**	**0**	**2.4**	**0**	**0.94**

Notes:

1. Shaded cells indicate exceedence of NYSDEC Groundwater Standard for contaminants of concern as defined in the NYSDEC Part 373 Permit.

GPS = groundwater protection standard
ug/L = microgram per liter
U = undetected
J = estimated



Termination Criteria (Module II.C.3.(c)(1)(iii)of the NYSDEC Part 373 Permit):

1. Does this well meet the termination criteria by achieving the GPSs for an equivalent of 4 years? **No**

Alternative Termination Criteria (Module II.C.3.(c)(1)(iii)(C) of the NYSDEC Part 373 Permit):

1. Does this well achieve "Zero Slope Condition" as defined in the permit? **Yes**
1.a. Plot sum of concentration of hazardous waste constituents from an equivalent of 4 years. See above
1.b. Fit a trendline (either linear or exponential) using least squares regression model. See above
1.c. The slope is less than or equal to zero. Yes

2. Does this well achieve the analytical concentration criteria for a minimum of four years? **Yes**
2.a. Is the total concentration of COCs less than 100 ug/L? Yes
2.b. Are single COCs less than 50 ug/L? Yes

3. Will the residual groundwater contamination result in an unacceptable risk to human health and the environment? Provide analysis. **No**

There is low risk at this site for the following reasons: 1) the total VOCs at this site were most recently detected at less than 1 ug/L which is very low; 2) there are no drinking water wells at the installation or in the surrounding neighborhoods as local municipalities supply drinking water; 3) a 2007 vapor intrusion study has shown that vapors are not of concern in the buildings closest to the site (Buildings 918 and 920); 4) Land use controls for this site are in place with the implementation of a dig permit process in which any construction in this area would be identified prior to construction.

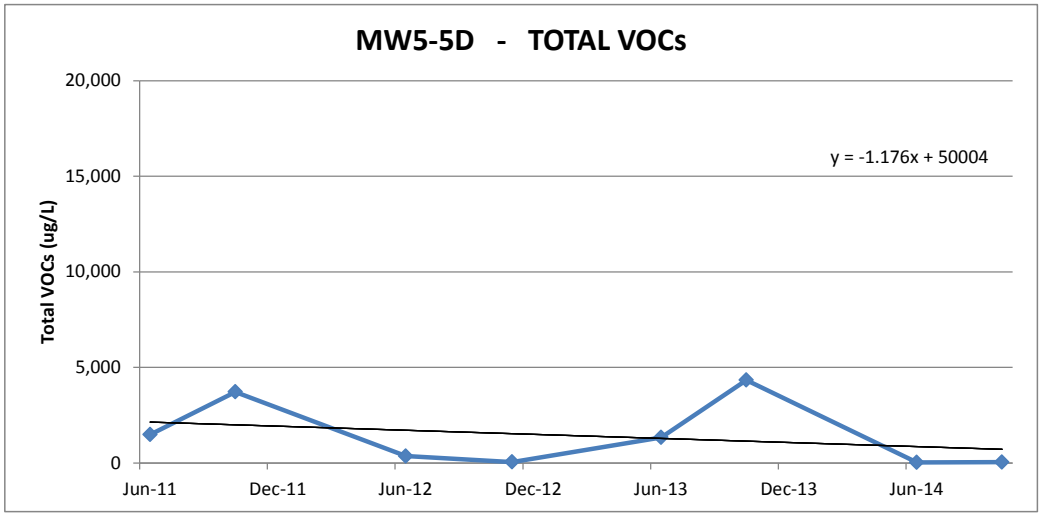
Appendix E
Analytical Data for Well Termination
Site 5, MW5-5D
Niagara Falls Air Reserve Station, Niagara Falls, NY
January 2015

Parameter	GPS (ug/L)	Result (ug/L) 6/21/11	10/25/11	6/27/12	11/26/12	6/25/13	10/22/13	6/27/14	10/23/14
Carbon Tetrachloride	5.0	U	U	U	U	U	U	U	U
Chloroform	7.0	U	U	U	U	U	U	U	U
1,1-Dichloroethene	5.0	0.93 J	1.9 J	U	U	U	U	2.6	2.3
Cis-1,2-Dichlorothene	5.0	710	1500 J	74	13	302	1330	U	U
Trans -1,2-Dichloroethene	5.0	8.1	22	15	15	19.6	23.7	27.5	40.5
Trichloroethene	5.0	2.3	1.8 J	1.2	0.46 J	U	U	1.5	0.75
Vinyl Chloride	2.0	770	2200 J	270	25	1020	2990	U	U
Benzene	1.0	U	U	U	U	U	U	U	U
Ethylbenzene	5.0	U	U	U	U	U	U	U	U
Toluene	5.0	U	U	U	U	U	U	U	U
Xylene (total)	5.0	U	U	U	U	U	U	U	U
TOTAL VOCs		**1491**	**3726**	**360.2**	**53.46**	**1342**	**4344**	**31.6**	**43.55**

Notes:

1. Shaded cells indicate exceedence of NYSDEC Groundwater Standard for contaminants of concern as defined in the NYSDEC Part 373 Permit.
2. MW10-3 was attempted to be sampled on 5/23/05, 6/26/07, 5/29/08, 6/23/10, 6/26/12, 6/25/13 however there was not enough water in well for sampling.

ug/L = microgram per liter
U = undetected
J = estimated



Termination Criteria (Module II.C.3.(c)(1)(iii)of the NYSDEC Part 373 Permit):

1. Does this well meet the termination criteria by achieving the GPSs for an equivalent of 4 years? **No**

Alternative Termination Criteria (Module II.C.3.(c)(1)(iii)(C) of the NYSDEC Part 373 Permit):

1. Does this well achieve "Zero Slope Condition" as defined in the permit? **Yes**
1.a. Plot sum of concentration of hazardous waste constituents from an equivalent of 4 years. See above
1.b. Fit a trendline (either linear or exponential) using least squares regression model. See above
1.c. The slope is less than or equal to zero. Yes

2. Does this well achieve the analytical concentration criteria for a minimum of four years? **No**
2.a. Is the total concentration of COCs less than 100 ug/L? No
2.b. Are single COCs less than 50 ug/L? No

3. Will the residual groundwater contamination result in an unacceptable risk to human health and the environment? Provide analysis. **No**

There is low risk at this site for the following reasons: 1) there are no drinking water wells at the installation or in the surrounding neighborhoods as local municipalities supply drinking water; 2) a 2007 vapor intrusion study has shown that vapors are not of concern in the buildings closest to the site (Buildings 918 and 920); 3) Land use controls for this site are in place with the implementation of a dig permit process in which any construction in this area would be identified prior to construction.

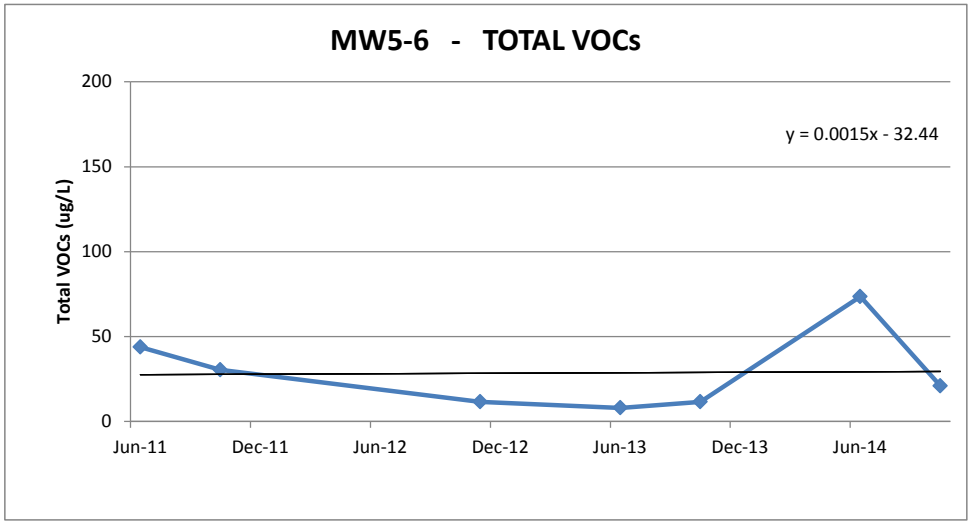
Appendix E
Analytical Data for Well Termination
Site 5, MW5-6
Niagara Falls Air Reserve Station, Niagara Falls, NY
January 2015

	GPS	Result (ug/L)						
Parameter	**(ug/L)**	**6/21/11**	**10/25/11**	**11/27/12**	**6/25/13**	**10/22/13**	**6/27/14**	**10/23/14**
Carbon Tetrachloride	5.0	U	U	U	U	U	U	U
Chloroform	7.0	U	U	U	U	U	U	U
1,1-Dichloroethene	5.0	U	U	U	U	U	U	U
Cis-1,2-Dichlorothene	5.0	14	13	6.8	7.1	9.4	32.7	15.7
Trans -1,2-Dichloroethene	5.0	0.59 J	0.33 J	U	U	U	U	U
Trichloroethene	5.0	4.7	3.7	2.9	0.93 J	1.4	1.8	2.5
Vinyl Chloride	2.0	24	13	1.9	U	0.81 J	39.0	2.7
Benzene	1.0	0.52 J	0.42 J	U	U	U	U	U
Ethylbenzene	5.0	U	U	U	U	U	U	U
Toluene	5.0	U	U	U	U	U	U	U
Xylene (total)	5.0	U	U	U	U	U	U	U
TOTAL VOCs		**43.8**	**30.5**	**11.6**	**8.03**	**11.6**	**73.5**	**20.9**

Notes:

1. Shaded cells indicate exceedence of NYSDEC Groundwater Standard for contaminants of concern as defined in the NYSDEC Part 373 Permit.

GPS = groundwater protection standard
ug/L = microgram per liter
U = undetected
J = estimated



Termination Criteria (Module II.C.3.(c)(1)(iii)of the NYSDEC Part 373 Permit):

1. Does this well meet the termination criteria by achieving the GPSs for an equivalent of 4 years? **No**

Alternative Termination Criteria (Module II.C.3.(c)(1)(iii)(C) of the NYSDEC Part 373 Permit):

1. Does this well achieve "Zero Slope Condition" as defined in the permit? **No**
1.a. Plot sum of concentration of hazardous waste constituents from an equivalent of 4 years. See above
1.b. Fit a trendline (either linear or exponential) using least squares regression model. See above
1.c. The slope is less than or equal to zero. No

2. Does this well achieve the analytical concentration criteria for a minimum of four years? **Yes**
2.a. Is the total concentration of COCs less than 100 ug/L? Yes
2.b. Are single COCs less than 50 ug/L? Yes

3. Will the residual groundwater contamination result in an unacceptable risk to human health and the environment? Provide analysis. **No**

There is low risk at this site for the following reasons: 1) there are no drinking water wells at the installation or in the surrounding neighborhoods as local municipalities supply drinking water; 2) a 2007 vapor intrusion study has shown that vapors are not of concern in the buildings closest to the site (Buildings 918 and 920); 3) Land use controls for this site are in place with the implementation of a dig permit process in which any construction in this area would be identified prior to construction.

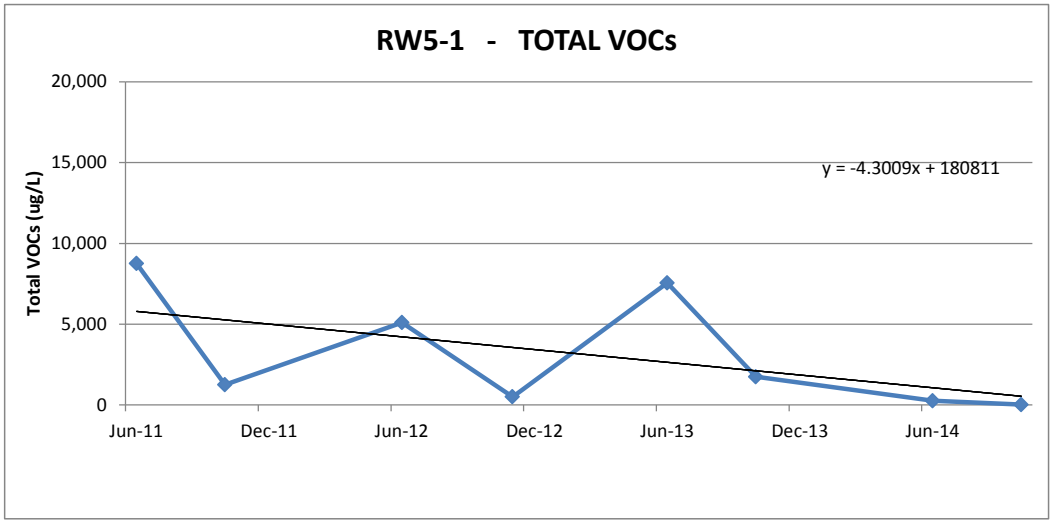
Appendix E
Analytical Data for Well Termination
Site 5, RW5-1
Niagara Falls Air Reserve Station, Niagara Falls, NY
January 2015

Parameter	GPS (ug/L)	Result (ug/L) 6/21/11	10/25/11	6/27/12	11/27/12	6/25/13	10/22/13	6/27/14	10/23/14
Carbon Tetrachloride	5.0	U	U	U	U	U	U	U	U
Chloroform	7.0	U	U	U	U	U	U	U	U
1,1-Dichloroethene	5.0	20	U	13	U	10.2	2.4	10.9	9.7
Cis-1,2-Dichlorothene	5.0	7000	810	3200	270	6370	1120	U	U
Trans -1,2-Dichloroethene	5.0	39	8.2	130	2.9 J	177	4.3	20.9	10.1
Trichloroethene	5.0	1500	U	1500	U	823	U	U	1.0
Vinyl Chloride	2.0	190	430	260	230	172	617	229	
Benzene	1.0	U	U	U	U	U	U	U	U
Ethylbenzene	5.0	U	U	U	U	U	U	U	U
Toluene	5.0	U	U	U	U	U	U	U	U
Xylene (total)	5.0	U	U	U	U	U	U	U	U
TOTAL VOCs		**8749**	**1248**	**5103**	**503**	**7552**	**1744**	**261**	**21**

Notes:

1. Shaded cells indicate exceedence of NYSDEC Groundwater Standard for contaminants of concern as defined in the NYSDEC Part 373 Permit.

GPS = groundwater protection standard
ug/L = microgram per liter
U = undetected
J = estimated



Termination Criteria (Module II.C.3.(c)(1)(iii)of the NYSDEC Part 373 Permit):

1. Does this well meet the termination criteria by achieving the GPSs for an equivalent of 4 years? **No**

Alternative Termination Criteria (Module II.C.3.(c)(1)(iii)(C) of the NYSDEC Part 373 Permit):

1. Does this well achieve "Zero Slope Condition" as defined in the permit? **Yes**
1.a. Plot sum of concentration of hazardous waste constituents from an equivalent of 4 years. See above
1.b. Fit a trendline (either linear or exponential) using least squares regression model. See above
1.c. The slope is less than or equal to zero. Yes

2. Does this well achieve the analytical concentration criteria for a minimum of four years? **No**
2.a. Is the total concentration of COCs less than 100 ug/L? No
2.b. Are single COCs less than 50 ug/L? No

3. Will the residual groundwater contamination result in an unacceptable risk to human health and the environment? Provide analysis. **No**

There is low risk at this site for the following reasons: 1) there are no drinking water wells at the installation or in the surrounding neighborhoods as local municipalities supply drinking water; 2) a 2007 vapor intrusion study has shown that vapors are not of concern in the buildings closest to the site (Buildings 918 and 920); 3) Land use controls for this site are in place with the implementation of a dig permit process in which any construction in this area would be identified prior to construction.

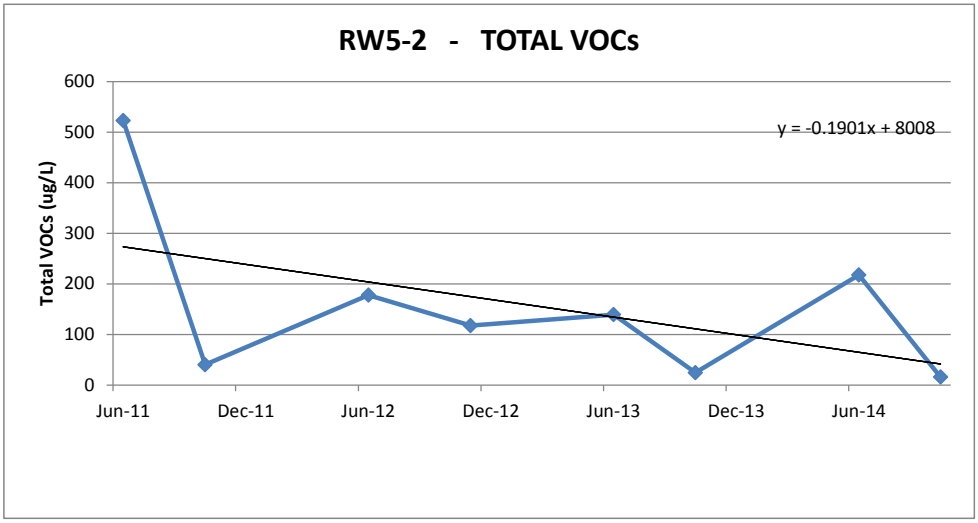
Appendix E
Analytical Data for Well Termination
Site 5, RW5-2
Niagara Falls Air Reserve Station, Niagara Falls, NY
January 2015

Parameter	GPS (ug/L)	Result (ug/L) 6/21/11	10/25/11	6/26/12	11/26/12	6/25/13	10/22/13	6/27/14	10/23/14
Carbon Tetrachloride	5.0	U	U	U	U	U	U	U	U
Chloroform	7.0	U	U	U	U	U	U	U	U
1,1-Dichloroethene	5.0	0.6 J	U	0.11 J	U	U	U	U	U
Cis-1,2-Dichlorothene	5.0	480	24	150	81	119	16.2	150	12.6
Trans -1,2-Dichloroethene	5.0	2.9 J	1.1	0.42 J	0.52 J	U	U	0.64	U
Trichloroethene	5.0	1.9 J	4.9	6.9	5.8	2.3	1.1	U	2.5
Vinyl Chloride	2.0	37	10	20	30	17.7	7	66.9	0.69
Benzene	1.0	U	U	U	U	U	U	U	U
Ethylbenzene	5.0	U	U	U	U	U	U	U	U
Toluene	5.0	U	U	U	U	U	U	U	U
Xylene (total)	5.0	U	U	U	U	U	U	U	U
TOTAL VOCs		**522**	**40**	**177**	**117**	**139**	**24.3**	**218**	**15.8**

Notes:

1. Shaded cells indicate exceedence of NYSDEC Groundwater Standard for contaminants of concern as defined in the NYSDEC Part 373 Permit.

GPS = groundwater protection standard
ug/L = microgram per liter
U = undetected
J = estimated



Termination Criteria (Module II.C.3.(c)(1)(iii)of the NYSDEC Part 373 Permit):

1. Does this well meet the termination criteria by achieving the GPSs for an equivalent of 4 years? **No**

Alternative Termination Criteria (Module II.C.3.(c)(1)(iii)(C) of the NYSDEC Part 373 Permit):

1. Does this well achieve "Zero Slope Condition" as defined in the permit? **Yes**
1.a. Plot sum of concentration of hazardous waste constituents from an equivalent of 4 years. See above
1.b. Fit a trendline (either linear or exponential) using least squares regression model. See above
1.c. The slope is less than or equal to zero. Yes

2. Does this well achieve the analytical concentration criteria for a minimum of four years? **No**
2.a. Is the total concentration of COCs less than 100 ug/L? No
2.b. Are single COCs less than 50 ug/L? No

3. Will the residual groundwater contamination result in an unacceptable risk to human health and the environment? Provide analysis. **No**

There is low risk at this site for the following reasons: 1) there are no drinking water wells at the installation or in the surrounding neighborhoods as local municipalities supply drinking water; 2) a 2007 vapor intrusion study has shown that vapors are not of concern in the buildings closest to the site (Buildings 918 and 920); 3) Land use controls for this site are in place with the implementation of a dig permit process in which any construction in this area would be identified prior to construction.

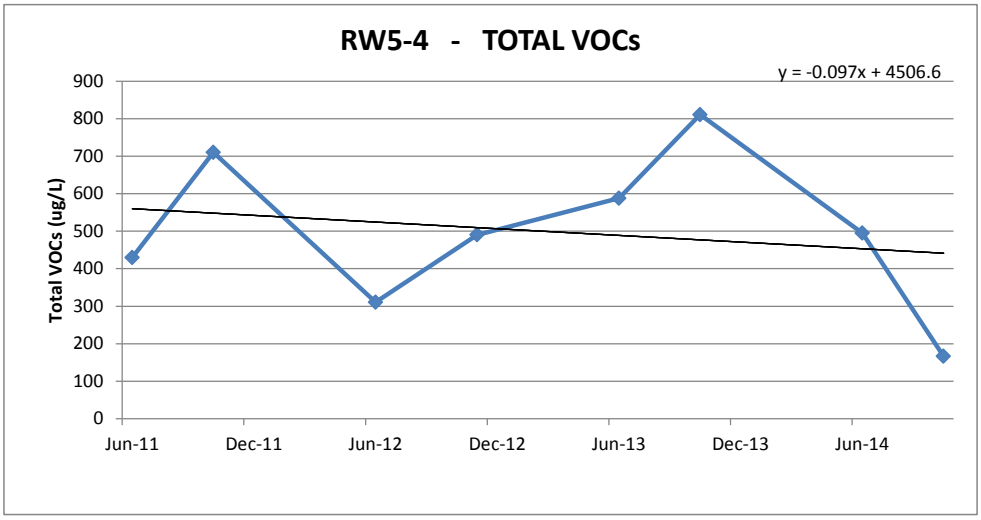
Appendix E
Analytical Data for Well Termination
Site 5, RW5-4
Niagara Falls Air Reserve Station, Niagara Falls, NY
January 2015

Parameter	GPS (ug/L)	Result (ug/L) 6/21/11	10/25/11	6/27/12	11/27/12	6/25/13	10/22/13	6/27/14	10/23/14
Carbon Tetrachloride	5.0	U	U	U	U	U	U	U	U
Chloroform	7.0	U	U	U	U	U	U	U	U
1,1-Dichloroethene	5.0	U	U	0.36 J	U	U	1	U	U
Cis-1,2-Dichlorothene	5.0	320	420	180	190	342	465	219	65.7
Trans -1,2-Dichloroethene	5.0	U	U	0.26 J	0.3 J	U	0.85 J	U	U
Trichloroethene	5.0	U	U	0.32 J	U	U	U	U	U
Vinyl Chloride	2.0	110	290	130	300	246	344	276	101
Benzene	1.0	U	U	U	U	U	U	U	U
Ethylbenzene	5.0	U	U	U	U	U	U	U	U
Toluene	5.0	U	U	U	U	U	U	U	U
Xylene (total)	5.0	U	U	U	U	U	U	U	U
TOTAL VOCs		**430**	**710**	**311**	**490**	**588**	**811**	**495**	**167**

Notes:

1. Shaded cells indicate exceedence of NYSDEC Groundwater Standard for contaminants of concern as defined in the NYSDEC Part 373 Permit.

GPS = groundwater protection standard
ug/L = microgram per liter
U = undetected
J = estimated



Termination Criteria (Module II.C.3.(c)(1)(iii)of the NYSDEC Part 373 Permit):

1. Does this well meet the termination criteria by achieving the GPSs for an equivalent of 4 years? **No**

Alternative Termination Criteria (Module II.C.3.(c)(1)(iii)(C) of the NYSDEC Part 373 Permit):

1. Does this well achieve "Zero Slope Condition" as defined in the permit? **Yes**
1.a. Plot sum of concentration of hazardous waste constituents from an equivalent of 4 years. See above
1.b. Fit a trendline (either linear or exponential) using least squares regression model. See above
1.c. The slope is less than or equal to zero. Yes

2. Does this well achieve the analytical concentration criteria for a minimum of four years? **No**
2.a. Is the total concentration of COCs less than 100 ug/L? No
2.b. Are single COCs less than 50 ug/L? No

3. Will the residual groundwater contamination result in an unacceptable risk to human health and the environment? Provide analysis. **No**

There is low risk at this site for the following reasons: 1) there are no drinking water wells at the installation or in the surrounding neighborhoods as local municipalities supply drinking water; 2) a 2007 vapor intrusion study has shown that vapors are not of concern in the buildings closest to the site (Buildings 918 and 920); 3) Land use controls for this site are in place with the implementation of a dig permit process in which any construction in this area would be identified prior to construction.

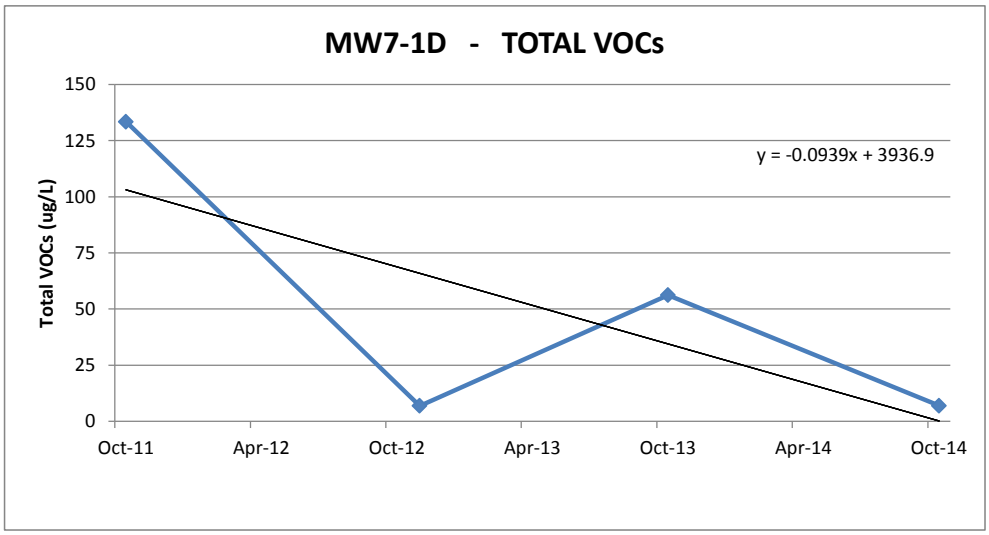
Appendix E
Analytical Data for Well Termination
Site 7, MW7-1D
Niagara Falls Air Reserve Station, Niagara Falls, NY
January 2015

Parameter	GPS (ug/L)	Result (ug/L) 10/25/11	11/26/12	10/22/13	10/23/14	
Carbon Tetrachloride	5.0	U	U	U		U
Chloroform	7.0	U	U	U		U
1,1-Dichloroethene	5.0	U	U	U		U
Cis-1,2-Dichlorothene	5.0	U	U	U		U
Trans -1,2-Dichloroethene	5.0	U	U	U		U
Trichloroethene	5.0	U	U	U		U
Vinyl Chloride	2.0	U	U	U		U
Benzene	1.0	100	4.4	53.2	7.0	
Ethylbenzene	5.0	25	1.9	1.8		U
Toluene	5.0	0.63 J	U	U		U
Xylene (total)	5.0	7.8	0.64	1.2		U
TOTAL VOCs		**133**	**6.94**	**56.2**	**7.0**	

Notes:

1. Shaded cells indicate exceedence of NYSDEC Groundwater Standard for contaminants of concern as defined in the NYSDEC Part 373 Permit.

GPS = groundwater protection standard
ug/L = microgram per liter
U = undetected
J = estimated



Termination Criteria (Module II.C.3.(c)(1)(iii)of the NYSDEC Part 373 Permit):

1. Does this well meet the termination criteria by achieving the GPSs for an equivalent of 4 years? **No**

Alternative Termination Criteria (Module II.C.3.(c)(1)(iii)(C) of the NYSDEC Part 373 Permit):

1. Does this well achieve "Zero Slope Condition" as defined in the permit? **Yes**
1.a. Plot sum of concentration of hazardous waste constituents from an equivalent of 4 years. See above
1.b. Fit a trendline (either linear or exponential) using least squares regression model. See above
1.c. The slope is less than or equal to zero. Yes

2. Does this well achieve the analytical concentration criteria for a minimum of four years? **No**
2.a. Is the total concentration of COCs less than 100 ug/L? No
2.b. Are single COCs less than 50 ug/L? No

3. Will the residual groundwater contamination result in an unacceptable risk to human health and the environment? Provide analysis. **No**

There is low risk at this site for the following reasons: 1) there are no drinking water wells at the installation or in the surrounding neighborhoods as local municipalities supply drinking water; 2) there are no receptors at this site; 3) Land use controls for this site are in place with the implementation of a dig permit process in which any construction in this area would be identified prior to construction.

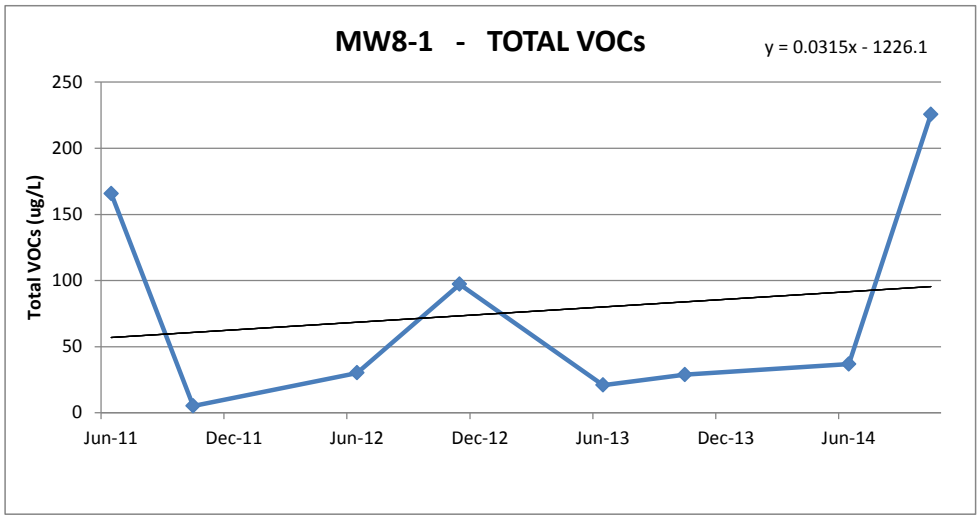
Appendix E
Analytical Data for Well Termination
Site 8, MW8-1
Niagara Falls Air Reserve Station, Niagara Falls, NY
January 2015

Parameter	GPS (ug/L)	Result (ug/L) 6/21/11	10/25/11	6/27/12	11/27/12	6/25/13	10/22/13	6/27/14	10/23/14
Carbon Tetrachloride	5.0	U	U	U	U	U	U	U	U
Chloroform	7.0	U	U	U	U	U	U	U	U
1,1-Dichloroethene	5.0	U	U	U	U	U	U	U	U
Cis-1,2-Dichlorothene	5.0	50	1.3	9.1	22	6.7	17.3	10.1	132
Trans -1,2-Dichloroethene	5.0	3.9	U	0.39 J	U	U	U	U	U
Trichloroethene	5.0	1.1	0.3 J	0.35 J	0.17 J	U	U	U	U
Vinyl Chloride	2.0	110	3.2	20	75	14.3	11.6	26.7	93.5
Benzene	1.0	0.69 J	0.44 J	0.37 J	U	U	U	U	U
Ethylbenzene	5.0	U	U	U	U	U	U	U	U
Toluene	5.0	U	U	U	U	U	U	U	U
Xylene (total)	5.0	U	U	U	U	U	U	U	U
TOTAL VOCs		**166**	**5.24**	**30.2**	**97.2**	**21**	**28.9**	**36.8**	**226**

Notes:

1. Shaded cells indicate exceedence of NYSDEC Groundwater Standard for contaminants of concern as defined in the NYSDEC Part 373 Permit.

GPS = groundwater protection standard
ug/L = microgram per liter
U = undetected
J = estimated



Termination Criteria (Module II.C.3.(c)(1)(iii)of the NYSDEC Part 373 Permit):

1. Does this well meet the termination criteria by achieving the GPSs for an equivalent of 4 years? **No**

Alternative Termination Criteria (Module II.C.3.(c)(1)(iii)(C) of the NYSDEC Part 373 Permit):

1. Does this well achieve "Zero Slope Condition" as defined in the permit? **No**
1.a. Plot sum of concentration of hazardous waste constituents from an equivalent of 4 years. See above
1.b. Fit a trendline (either linear or exponential) using least squares regression model. See above
1.c. The slope is less than or equal to zero. No

2. Does this well achieve the analytical concentration criteria for a minimum of four years? **No**
2.a. Is the total concentration of COCs less than 100 ug/L? No
2.b. Are single COCs less than 50 ug/L? No

3. Will the residual groundwater contamination result in an unacceptable risk to human health and the environment? Provide analysis. **No**

There is low risk at this site for the following reasons: 1) there are no drinking water wells at the installation or in the surrounding neighborhoods as local municipalities supply drinking water; 2) a 2007 vapor intrusion study has shown that vapors are not of concern in the building closest to the site (Building 202); 3) Land use controls for this site are in place with the implementation of a dig permit process in which any construction in this area would be identified prior to construction.

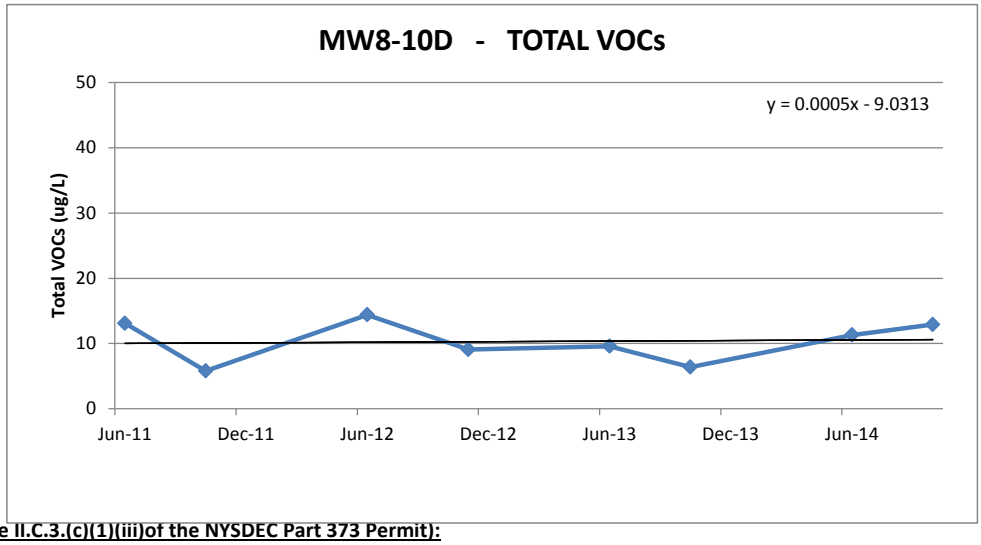
Appendix E
Analytical Data for Well Termination
Site 8, MW8-10D
Niagara Falls Air Reserve Station, Niagara Falls, NY
January 2015

Parameter	GPS (ug/L)	Result (ug/L) 6/21/11	10/25/11	6/27/12	11/27/12	6/25/13	10/22/13	6/27/14	10/23/14
Carbon Tetrachloride	5.0	U	U	U	U	U	U	U	U
Chloroform	7.0	U	U	U	U	U	U	U	U
1,1-Dichloroethene	5.0	U	U	U	U	U	U	U	U
Cis-1,2-Dichlorothene	5.0	8.4	3.8	11	6.1	7	4.3	8.0	8.5
Trans -1,2-Dichloroethene	5.0	1.8	0.64 J	0.72 J	0.97 J	1.2	0.79 J	1.3	1.1
Trichloroethene	5.0	1.1	0.25 J	0.18 J	U	U	U	U	U
Vinyl Chloride	2.0	1.8	1.1	2.5	2.0	1.4	1.3	2.0	3.3
Benzene	1.0	U	U	U	U	U	U	U	U
Ethylbenzene	5.0	U	U	U	U	U	U	U	U
Toluene	5.0	U	U	U	U	U	U	U	U
Xylene (total)	5.0	U	U	U	U	U	U	U	U
TOTAL VOCs		**13.1**	**5.79**	**14.4**	**9.07**	**9.6**	**6.39**	**11.3**	**12.9**

Notes:

1. Shaded cells indicate exceedence of NYSDEC Groundwater Standard for contaminants of concern as defined in the NYSDEC Part 373 Permit.
2. MW10-3 was attempted to be sampled on 5/23/05, 6/26/07, 5/29/08, 6/23/10, 6/26/12, 6/25/13 however there was not enough water in well for sampli

ug/L = microgram per liter
U = undetected
J = estimated



Termination Criteria (Module II.C.3.(c)(1)(iii)of the NYSDEC Part 373 Permit):

1. Does this well meet the termination criteria by achieving the GPSs for an equivalent of 4 years? **No**

Alternative Termination Criteria (Module II.C.3.(c)(1)(iii)(C) of the NYSDEC Part 373 Permit):

1. Does this well achieve "Zero Slope Condition" as defined in the permit? **Yes**
1.a. Plot sum of concentration of hazardous waste constituents from an equivalent of 4 years. See above
1.b. Fit a trendline (either linear or exponential) using least squares regression model. See above
1.c. The slope is less than or equal to zero. Yes

2. Does this well achieve the analytical concentration criteria for a minimum of four years? **Yes**
2.a. Is the total concentration of COCs less than 100 ug/L? Yes
2.b. Are single COCs less than 50 ug/L? Yes

3. Will the residual groundwater contamination result in an unacceptable risk to human health and the environment? Provide analysis. **No**

There is low risk at this site for the following reasons: 1) there are no drinking water wells at the installation or in the surrounding neighborhoods as local municipalities supply drinking water; 2) a 2007 vapor intrusion study has shown that vapors are not of concern in the building closest to the site (Building 202); 3) Land use controls for this site are in place with the implementation of a dig permit process in which any construction in this area would be identified prior to construction.

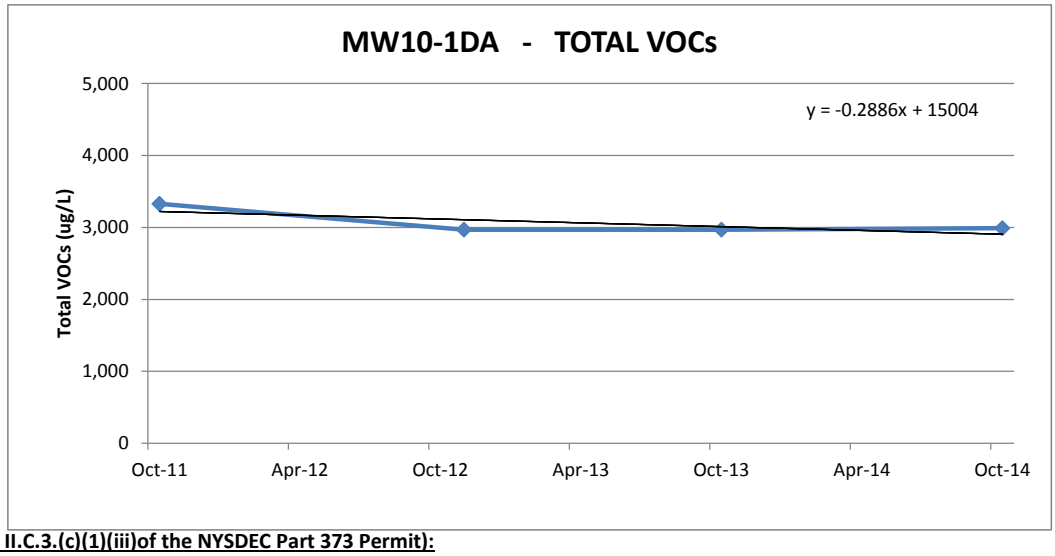
Appendix E
Analytical Data for Well Termination
Site 10, MW10-1DA
Niagara Falls Air Reserve Station, Niagara Falls, NY
January 2015

Parameter	GPS (ug/L)	Result (ug/L) 10/25/11	11/27/12	10/22/13	10/23/14
Carbon Tetrachloride	5.0	U	U	U	U
Chloroform	7.0	U	U	U	U
1,1-Dichloroethene	5.0	3.3 J	U	2.2	2.6
Cis-1,2-Dichlorothene	5.0	2600	2100	2190	2210
Trans -1,2-Dichloroethene	5.0	18	19 J	13.8	17.6
Trichloroethene	5.0	U	U	U	U
Vinyl Chloride	2.0	690	830	750	742
Benzene	1.0	18	19 J	13.1	16.5
Ethylbenzene	5.0	U	U	U	U
Toluene	5.0	U	U	U	U
Xylene (total)	5.0	U	U	U	U
TOTAL VOCs		**3329**	**2968**	**2969**	**2989**

Notes:

1. Shaded cells indicate exceedence of NYSDEC Groundwater Standard for contaminants of concern as defined in the NYSDEC Part 373 Permit.

GPS = groundwater protection standard
ug/L = microgram per liter
U = undetected
J = estimated



Termination Criteria (Module II.C.3.(c)(1)(iii)of the NYSDEC Part 373 Permit):

1. Does this well meet the termination criteria by achieving the GPSs for an equivalent of 4 years? **No**

Alternative Termination Criteria (Module II.C.3.(c)(1)(iii)(C) of the NYSDEC Part 373 Permit):

1. Does this well achieve "Zero Slope Condition" as defined in the permit? **Yes**
1.a. Plot sum of concentration of hazardous waste constituents from an equivalent of 4 years. See above
1.b. Fit a trendline (either linear or exponential) using least squares regression model. See above
1.c. The slope is less than or equal to zero. Yes

2. Does this well achieve the analytical concentration criteria for a minimum of four years? **No**
2.a. Is the total concentration of COCs less than 100 ug/L? No
2.b. Are single COCs less than 50 ug/L? No

3. Will the residual groundwater contamination result in an unacceptable risk to human health and the environment? Provide analysis. **No**

There is low risk at this site for the following reasons: 1) there are no drinking water wells at the installation or in the surrounding neighborhoods as local municipalities supply drinking water; 2) Land use controls for this site are in place with the implementation of a dig permit process in which any construction in this area would be identified prior to construction.

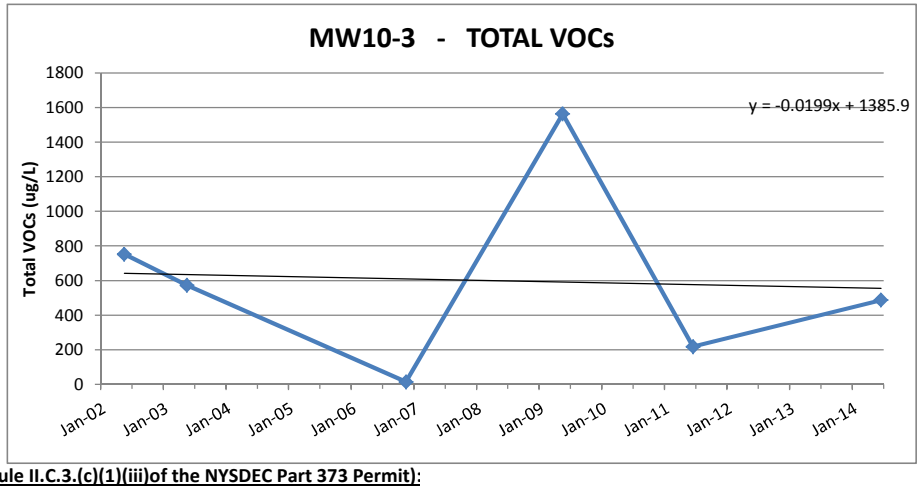
Appendix E
Analytical Data for Well Termination
Site 10, MW10-3
Niagara Falls Air Reserve Station, Niagara Falls, NY
January 2015

Parameter	GPS (ug/L)	Result (ug/L) (see Notes 2 & 3) 5/21/02	5/27/03	11/15/06	5/28/09	6/21/11	6/27/14
Carbon Tetrachloride	5.0	353	178	U	920 J	98	U
Chloroform	7.0	170	195	1.2 J	310 J	67	327
1,1-Dichloroethene	5.0	U	U	U	0.88 J	U	U
Cis-1,2-Dichlorothene	5.0	118	87.1	7.6	100	20	48
Trans -1,2-Dichloroethene	5.0	1.35 J	1.02 J	U	2.8 J	U	1.5
Trichloroethene	5.0	110	111	6.0	220 J	33	107
Vinyl Chloride	2.0	U	0.53 J	U	10 J	U	3.7
Benzene	1.0	U	U	U	U	U	U
Ethylbenzene	5.0	U	U	U	U	U	U
Toluene	5.0	U	U	U	U	U	U
Xylene (total)	5.0	U	U	U	U	U	U
TOTAL VOCs		**752**	**573**	**14.8**	**1564**	**218**	**487**

Notes:

1. Shaded cells indicate exceedence of NYSDEC Groundwater Standard for contaminants of concern as defined in the NYSDEC Part 373 Permit
2. MW10-3 was attempted to be sampled on 5/23/05, 6/26/07, 5/29/08, 6/23/10, 6/26/12, 6/25/13. There was not enough water in well for sampling.
3. The trendline shown in the graph below may not accurately represent the concentration trend for this well. Data gaps exist due to the well being dry during several sampling events. The data presented are not representative of consecutive sampling events as described in the NYSDEC Part 373 Permit.

GPS = groundwater protection standard
ug/L = microgram per liter
U = undetected
J = estimated



Termination Criteria (Module II.C.3.(c)(1)(iii)of the NYSDEC Part 373 Permit):

1. Does this well meet the termination criteria by achieving the GPSs for an equivalent of 4 years? — No

Alternative Termination Criteria (Module II.C.3.(c)(1)(iii)(C) of the NYSDEC Part 373 Permit):

1. Does this well achieve "Zero Slope Condition" as defined in the permit? — Yes
1.a. Plot sum of concentration of hazardous waste constituents from an equivalent of 4 years. — See above
1.b. Fit a trendline (either linear or exponential) using least squares regression model. — See above
2. Does this well achieve the analytical concentration criteria for a minimum of four sampling events? — Yes

2. Does this well achieve the analytical concentration criteria for a minimum of four years? — No
2.a. Is the total concentration of COCs less than 100 ug/L? — No
2.b. Are single COCs less than 50 ug/L? — No

3. Will the residual groundwater contamination result in an unacceptable risk to human health and the environment? Provide analysis. — No

There is low risk at this site for the following reasons: 1) there are no drinking water wells at the installation or in the surrounding neighborhoods as local municipalities supply drinking water; 2) Land use controls for this site are in place with the implementation of a dig permit process in which any construction in this area would be identified prior to construction.

Appendix E
Analytical Data for Well Termination
Site 10, MW10-3D
Niagara Falls Air Reserve Station, Niagara Falls, NY
January 2015

Parameter	GPS (ug/L)	Result (ug/L) 10/25/11	11/27/12	10/22/13	10/23/14
Carbon Tetrachloride	5.0	U	U	U	U
Chloroform	7.0	U	U	U	U
1,1-Dichloroethene	5.0	U	U	U	U
Cis-1,2-Dichlorothene	5.0	U	U	U	U
Trans -1,2-Dichloroethene	5.0	U	U	U	U
Trichloroethene	5.0	U	U	U	U
Vinyl Chloride	2.0	U	U	U	U
Benzene	1.0	U	U	U	U
Ethylbenzene	5.0	U	U	U	U
Toluene	5.0	U	U	U	U
Xylene (total)	5.0	U	U	U	U
TOTAL VOCs		**0**	**0**	**0**	**0**

Notes:

1. Shaded cells indicate exceedence of NYSDEC Groundwater Standard for contaminants of concern as defined in the NYSDEC Part 373 Permit.

GPS = groundwater protection standard

ug/L = microgram per liter

U = undetected

J = estimated

Termination Criteria (Module II.C.3.(c)(1)(iii)of the NYSDEC Part 373 Permit):

1. Does this well meet the termination criteria by achieving the GPSs for an equivalent of 4 years? **Yes**

Alternative Termination Criteria (Module II.C.3.(c)(1)(iii)(C) of the NYSDEC Part 373 Permit):

1. Does this well achieve "Zero Slope Condition" as defined in the permit? **Yes**

1.a. Plot sum of concentration of hazardous waste constituents from an equivalent of 4 years. NA

1.b. Fit a trendline (either linear or exponential) using least squares regression model. NA

1.c. The slope is less than or equal to zero. NA

2. Does this well achieve the analytical concentration criteria for a minimum of four years? **Yes**

2.a. Is the total concentration of COCs less than 100 ug/L? Yes

2.b. Are single COCs less than 50 ug/L? Yes

3. Will the residual groundwater contamination result in an unacceptable risk to human health and the environment? Provide analysis. **No**

This well meets the termination criteria by achieving the GPSs for an equivalent of 4 years.

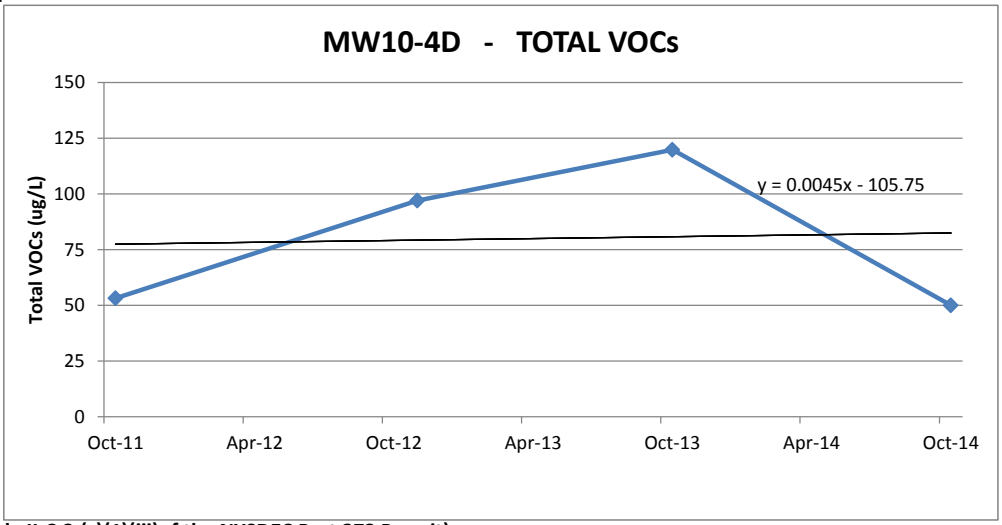
Appendix E
Analytical Data for Well Termination
Site 10, MW10-4D
Niagara Falls Air Reserve Station, Niagara Falls, NY
January 2015

Parameter	GPS (ug/L)	Result (ug/L) 10/25/11	11/27/12	10/22/13	10/23/14
Carbon Tetrachloride	5.0	U	U	U	U
Chloroform	7.0	U	U	U	U
1,1-Dichloroethene	5.0	U	0.34 J	U	U
Cis-1,2-Dichlorothene	5.0	24	62	59.1	48.4
Trans -1,2-Dichloroethene	5.0	0.29 J		U	U
Trichloroethene	5.0	1.2	0.94 J	U	U
Vinyl Chloride	2.0	27	33	60.2	1.6
Benzene	1.0	0.64 J	0.68 J	0.54	U
Ethylbenzene	5.0	0.12 J	U	U	U
Toluene	5.0	U	U	U	U
Xylene (total)	5.0	U	U	U	U
TOTAL VOCs		**53.3**	**97**	**120**	**50**

Notes:

1. Shaded cells indicate exceedence of NYSDEC Groundwater Standard for contaminants of concern as defined in the NYSDEC Part 373 Permit.

GPS = groundwater protection standard
ug/L = microgram per liter
U = undetected
J = estimated



Termination Criteria (Module II.C.3.(c)(1)(iii)of the NYSDEC Part 373 Permit):

1. Does this well meet the termination criteria by achieving the GPSs for an equivalent of 4 years? **No**

Alternative Termination Criteria (Module II.C.3.(c)(1)(iii)(C) of the NYSDEC Part 373 Permit):

1. Does this well achieve "Zero Slope Condition" as defined in the permit? **No**
1.a. Plot sum of concentration of hazardous waste constituents from an equivalent of 4 years. See above
1.b. Fit a trendline (either linear or exponential) using least squares regression model. See above
1.c. The slope is less than or equal to zero. No

2. Does this well achieve the analytical concentration criteria for a minimum of four years? **No**
2.a. Is the total concentration of COCs less than 100 ug/L? No
2.b. Are single COCs less than 50 ug/L? No

3. Will the residual groundwater contamination result in an unacceptable risk to human health and the environment? Provide analysis. **No**

There is low risk at this site for the following reasons: 1) there are no drinking water wells at the installation or in the surrounding neighborhoods as local municipalities supply drinking water; 2) Land use controls for this site are in place with the implementation of a dig permit process in which any construction in this area would be identified prior to construction.

Appendix E
Analytical Data for Well Termination
Site 10, MW10-4E
Niagara Falls Air Reserve Station, Niagara Falls, NY
January 2015

Parameter	GPS (ug/L)	Result (ug/L) 10/25/11	11/27/12	10/22/13	10/23/14
Carbon Tetrachloride	5.0	U	U	U	U
Chloroform	7.0	U	U	U	U
1,1-Dichloroethene	5.0	U	U	U	U
Cis-1,2-Dichlorothene	5.0	22	25	10	9.5
Trans -1,2-Dichloroethene	5.0	0.3 J	U	U	U
Trichloroethene	5.0	U	U	U	U
Vinyl Chloride	2.0	5.9	5.2	4.2	4.8
Benzene	1.0	U	U	U	U
Ethylbenzene	5.0	U	U	U	U
Toluene	5.0	U	U	U	U
Xylene (total)	5.0	U	U	U	U
TOTAL VOCs		**28**	**30**	**15**	**14**

Notes:

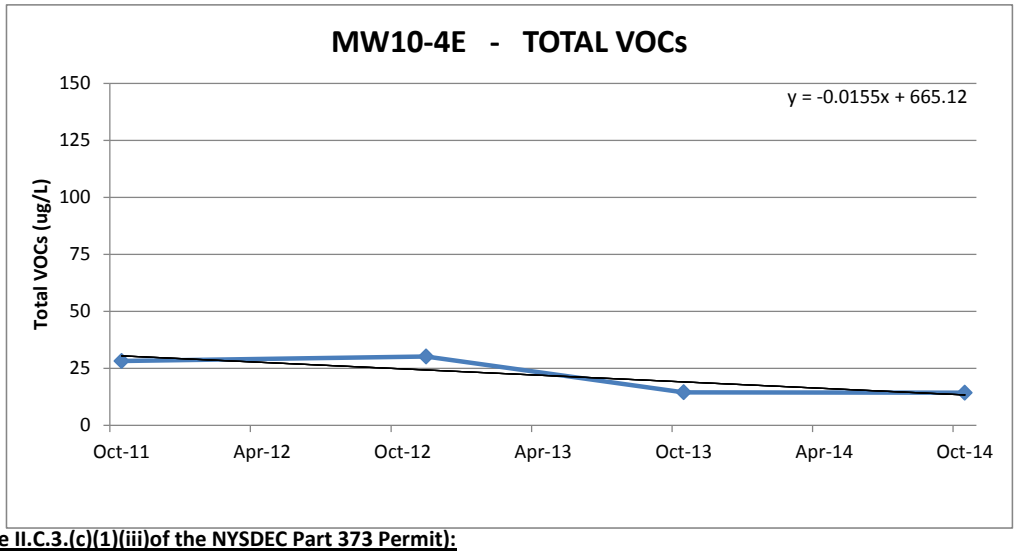
1. Shaded cells indicate exceedence of NYSDEC Groundwater Standard for contaminants of concern as defined in the NYSDEC Part 373 Permit.

GPS = groundwater protection standard

ug/L = microgram per liter

U = undetected

J = estimated



Termination Criteria (Module II.C.3.(c)(1)(iii)of the NYSDEC Part 373 Permit):

1. Does this well meet the termination criteria by achieving the GPSs for an equivalent of 4 years? **No**

Alternative Termination Criteria (Module II.C.3.(c)(1)(iii)(C) of the NYSDEC Part 373 Permit):

1. Does this well achieve "Zero Slope Condition" as defined in the permit? **Yes**

1.a. Plot sum of concentration of hazardous waste constituents from an equivalent of 4 years. See above

1.b. Fit a trendline (either linear or exponential) using least squares regression model. See above

1.c. The slope is less than or equal to zero. Yes

2. Does this well achieve the analytical concentration criteria for a minimum of four years? **Yes**

2.a. Is the total concentration of COCs less than 100 ug/L? Yes

2.b. Are single COCs less than 50 ug/L? Yes

3. Will the residual groundwater contamination result in an unacceptable risk to human health and the environment? Provide analysis. **No**

There is low risk at this site for the following reasons: 1) there are no drinking water wells at the installation or in the surrounding neighborhoods as local municipalities supply drinking water; 2) Land use controls for this site are in place with the implementation of a dig permit process in which any construction in this area would be identified prior to construction.

Appendix E
Analytical Data for Well Termination
Site 10, MW10-7
Niagara Falls Air Reserve Station, Niagara Falls, NY
January 2015

Parameter	GPS (ug/L)	Result (ug/L) 6/21/11	6/26/12	6/25/13	6/27/14
Carbon Tetrachloride	5.0	U	U	U	U
Chloroform	7.0	U	U	U	U
1,1-Dichloroethene	5.0	U	U	U	U
Cis-1,2-Dichlorothene	5.0	32	53	27.9	23.1
Trans -1,2-Dichloroethene	5.0	0.99 J	1.6	U	0.82
Trichloroethene	5.0	23	31	19.4	7.2
Vinyl Chloride	2.0	U	U	U	U
Benzene	1.0	U	U	U	U
Ethylbenzene	5.0	U	U	U	U
Toluene	5.0	U	U	U	U
Xylene (total)	5.0	U	U	U	U
TOTAL VOCs		**56**	**85.6**	**47.3**	**31.1**

Notes:

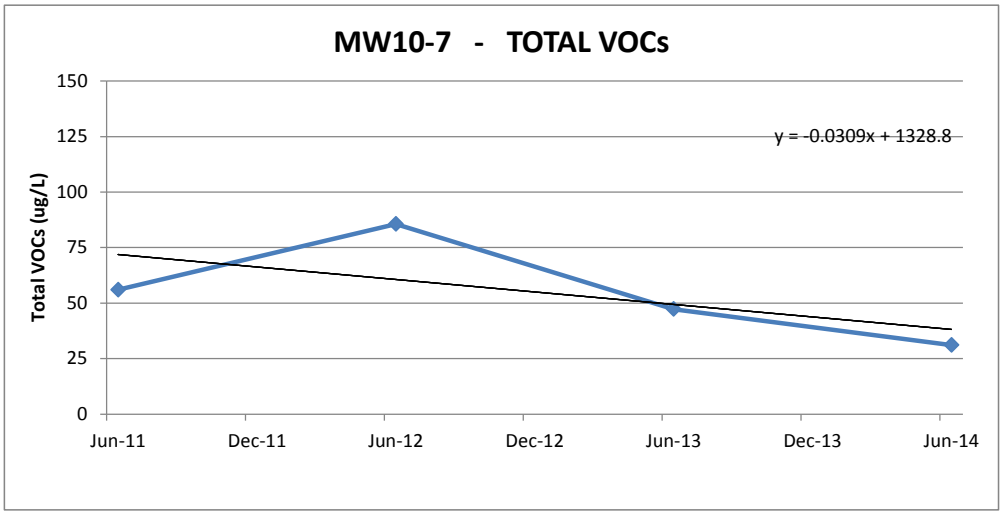
1. Shaded cells indicate exceedence of NYSDEC Groundwater Standard for contaminants of concern as defined in the NYSDEC Part 373 Permit.

GPS = groundwater protection standard

ug/L = microgram per liter

U = undetected

J = estimated



Termination Criteria (Module II.C.3.(c)(1)(iii)of the NYSDEC Part 373 Permit):

1. Does this well meet the termination criteria by achieving the GPSs for an equivalent of 4 years? **No**

Alternative Termination Criteria (Module II.C.3.(c)(1)(iii)(C) of the NYSDEC Part 373 Permit):

1. Does this well achieve "Zero Slope Condition" as defined in the permit? **Yes**

1.a. Plot sum of concentration of hazardous waste constituents from an equivalent of 4 years. See above

1.b. Fit a trendline (either linear or exponential) using least squares regression model. See above

1.c. The slope is less than or equal to zero. Yes

2. Does this well achieve the analytical concentration criteria for a minimum of four years? **No**

2.a. Is the total concentration of COCs less than 100 ug/L? Yes

2.b. Are single COCs less than 50 ug/L? No

3. Will the residual groundwater contamination result in an unacceptable risk to human health and the environment? Provide analysis. **No**

There is low risk at this site for the following reasons: 1) there are no drinking water wells at the installation or in the surrounding neighborhoods as local municipalities supply drinking water; 2) Land use controls for this site are in place with the implementation of a dig permit process in which any construction in this area would be identified prior to construction.

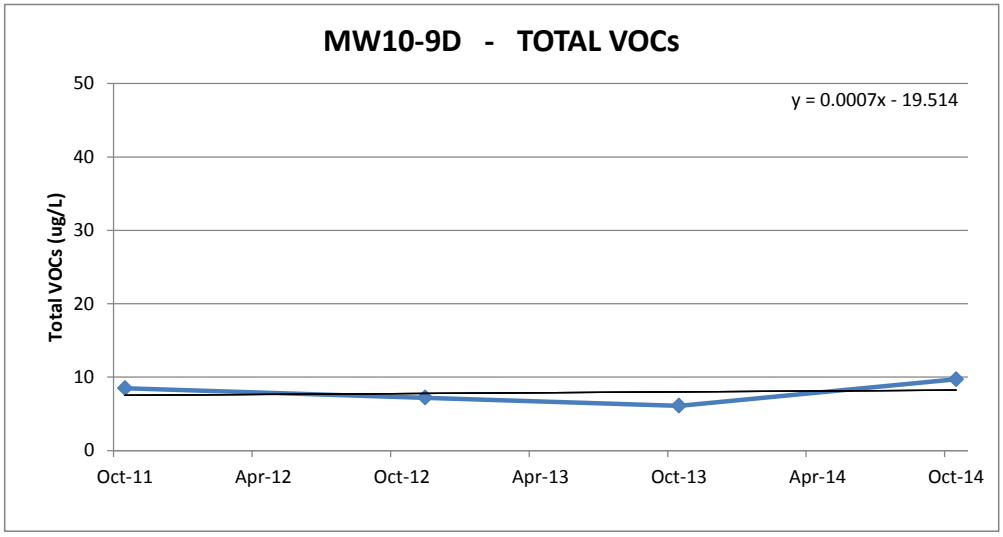
Appendix E
Analytical Data for Well Termination
Site 10, MW10-9D
Niagara Falls Air Reserve Station, Niagara Falls, NY
January 2015

Parameter	GPS (ug/L)	Result (ug/L) 10/25/11	11/27/12	10/22/13	10/23/14
Carbon Tetrachloride	5.0	U	U	U	U
Chloroform	7.0	U	U	U	U
1,1-Dichloroethene	5.0	U	U	U	U
Cis-1,2-Dichlorothene	5.0	7.5	6.1	5.2	8.0
Trans -1,2-Dichloroethene	5.0	U	U	U	U
Trichloroethene	5.0	U	U	U	U
Vinyl Chloride	2.0	1	1.1	0.9 J	1.7
Benzene	1.0	U	U	U	U
Ethylbenzene	5.0	U	U	U	U
Toluene	5.0	U	U	U	U
Xylene (total)	5.0	U	U	U	U
TOTAL VOCs		**8.5**	**7.2**	**6.1**	**9.7**

Notes:

1. Shaded cells indicate exceedence of NYSDEC Groundwater Standard for contaminants of concern as defined in the NYSDEC Part 373 Permit.

GPS = groundwater protection standard
ug/L = microgram per liter
U = undetected
J = estimated



Termination Criteria (Module II.C.3.(c)(1)(iii)of the NYSDEC Part 373 Permit):

1. Does this well meet the termination criteria by achieving the GPSs for an equivalent of 4 years? **No**

Alternative Termination Criteria (Module II.C.3.(c)(1)(iii)(C) of the NYSDEC Part 373 Permit):

1. Does this well achieve "Zero Slope Condition" as defined in the permit? **Yes**
1.a. Plot sum of concentration of hazardous waste constituents from an equivalent of 4 years. See above
1.b. Fit a trendline (either linear or exponential) using least squares regression model. See above
1.c. The slope is less than or equal to zero. Yes

2. Does this well achieve the analytical concentration criteria for a minimum of four years? **Yes**
2.a. Is the total concentration of COCs less than 100 ug/L? Yes
2.b. Are single COCs less than 50 ug/L? Yes

3. Will the residual groundwater contamination result in an unacceptable risk to human health and the environment? Provide analysis. **No**

There is low risk at this site for the following reasons: 1) there are no drinking water wells at the installation or in the surrounding neighborhoods as local municipalities supply drinking water; 2) Land use controls for this site are in place with the implementation of a dig permit process in which any construction in this area would be identified prior to construction.

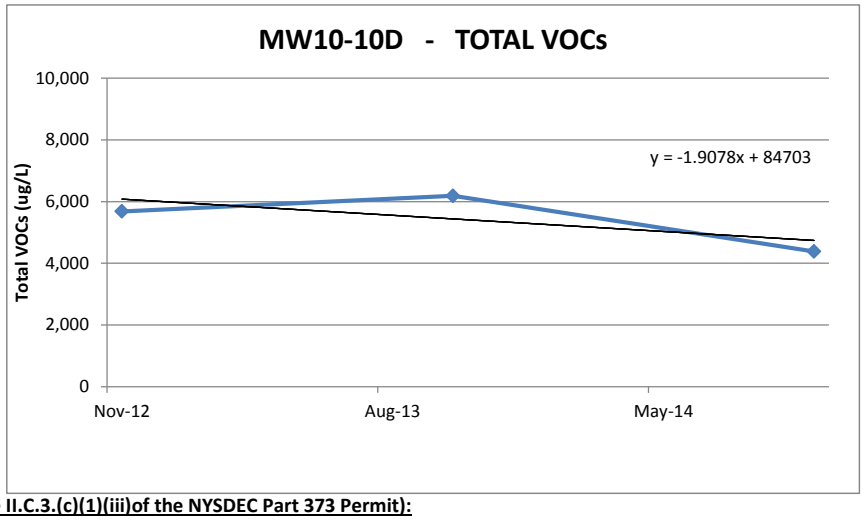
Appendix E
Analytical Data for Well Termination
Site 10, MW10-10D
Niagara Falls Air Reserve Station, Niagara Falls, NY
January 2015

Parameter	GPS (ug/L)	Result (ug/L) 11/27/12	10/22/13	10/23/14
Carbon Tetrachloride	5.0	0.51 J	0.69 J	0.24
Chloroform	7.0	9.9	19.2	9.0
1,1-Dichloroethene	5.0	4.5	3.3	2.5
Cis-1,2-Dichlorothene	5.0	4400 E	5190	4040
Trans -1,2-Dichloroethene	5.0	100	75	15
Trichloroethene	5.0	1100	812	285
Vinyl Chloride	2.0	65	83.6	31.2
Benzene	1.0	3.8	1.7	0.39
Ethylbenzene	5.0	U	U	U
Toluene	5.0	U	U	U
Xylene (total)	5.0	U	U	U
TOTAL VOCs		**5684**	**6185**	**4383**

Notes:

1. Shaded cells indicate exceedence of NYSDEC Groundwater Standard for contaminants of concern as defined in the NYSDEC Part 373 Perm
2. MW10-10D was attempted to be sampled on 10/28/08, 10/28/09, 6/23/10 however the well was dry. Therefore, no sample was collecte
3. The trendline shown in the graph below may not accurately represent the concentration trend for this well. Data gaps exist due to the well being dry during several sampling events. The data presented are not representative of consecutive sampling events as described in the NYSDEC Part 373 Permit.

GPS = groundwater protection standard
ug/L = microgram per liter
U = undetected
J = estimated



Termination Criteria (Module II.C.3.(c)(1)(iii)of the NYSDEC Part 373 Permit):

1. Does this well meet the termination criteria by achieving the GPSs for an equivalent of 4 years? **No**

Alternative Termination Criteria (Module II.C.3.(c)(1)(iii)(C) of the NYSDEC Part 373 Permit):

1. Does this well achieve "Zero Slope Condition" as defined in the permit? **Yes**
1.a. Plot sum of concentration of hazardous waste constituents from an equivalent of 4 years. See above
1.b. Fit a trendline (either linear or exponential) using least squares regression model. See above
1.c. The slope is less than or equal to zero. Yes

2. Does this well achieve the analytical concentration criteria for a minimum of four years? **No**
2.a. Is the total concentration of COCs less than 100 ug/L? No
2.b. Are single COCs less than 50 ug/L? No

3. Will the residual groundwater contamination result in an unacceptable risk to human health and the environment? Provide analysis. **No**

There is low risk at this site for the following reasons: 1) there are no drinking water wells at the installation or in the surrounding neighborhoods as local municipalities supply drinking water; 2) Land use controls for this site are in place with the implementation of a dig permit process in which any construction in this area would be identified prior to construction.

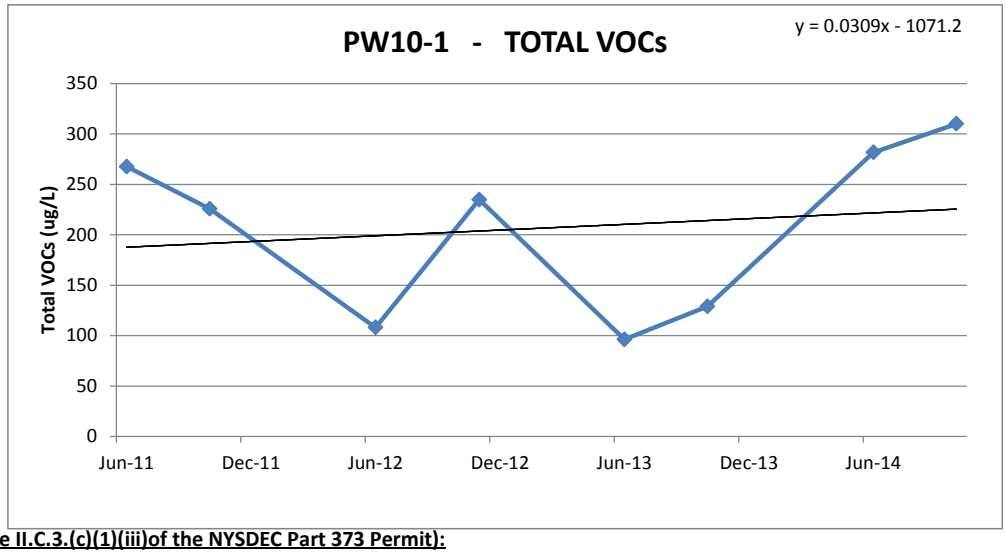
Appendix E
Analytical Data for Well Termination
Site 10, PW10-1
Niagara Falls Air Reserve Station, Niagara Falls, NY
January 2015

Parameter	GPS (ug/L)	Result (ug/L) 6/21/11	10/25/11	6/26/12	11/27/12	6/25/13	10/22/13	6/27/14	10/23/14
Carbon Tetrachloride	5.0	U	U	U	U	U	U	U	U
Chloroform	7.0	0.53 J	0.64 J	U	0.43 J	U	U	U	0.34
1,1-Dichloroethene	5.0	0.34 J	0.3 J	0.16 J	0.47 J	U	U	0.63	0.41
Cis-1,2-Dichlorothene	5.0	190	160	81	180	75.8	82	207	232
Trans -1,2-Dichloroethene	5.0	17	3.6	0.55 J	3.6	U	1.3	3.1	3.4
Trichloroethene	5.0	56	57	25	38	18.5	43.9	55.9	70.2
Vinyl Chloride	2.0	3.7	4.2	1.1	12.0	1.9	1.8	14.6	3.6
Benzene	1.0	U	U	0.26 J	0.37 J	U	U	0.34	U
Ethylbenzene	5.0	U	U	U	U	U	U	U	U
Toluene	5.0	U	U	U	U	U	U	U	U
Xylene (total)	5.0	U	U	U	U	U	U	U	U
TOTAL VOCs		**268**	**226**	**108**	**235**	**96.2**	**129**	**282**	**310**

Notes:

1. Shaded cells indicate exceedence of NYSDEC Groundwater Standard for contaminants of concern as defined in the NYSDEC Part 373 Permit.

GPS = groundwater protection standard
ug/L = microgram per liter
U = undetected
J = estimated



Termination Criteria (Module II.C.3.(c)(1)(iii)of the NYSDEC Part 373 Permit):

1. Does this well meet the termination criteria by achieving the GPSs for an equivalent of 4 years? **No**

Alternative Termination Criteria (Module II.C.3.(c)(1)(iii)(C) of the NYSDEC Part 373 Permit):

1. Does this well achieve "Zero Slope Condition" as defined in the permit? **No**
1.a. Plot sum of concentration of hazardous waste constituents from an equivalent of 4 years. See above
1.b. Fit a trendline (either linear or exponential) using least squares regression model. See above
1.c. The slope is less than or equal to zero. No

2. Does this well achieve the analytical concentration criteria for a minimum of four years? **No**
2.a. Is the total concentration of COCs less than 100 ug/L? No
2.b. Are single COCs less than 50 ug/L? No

3. Will the residual groundwater contamination result in an unacceptable risk to human health and the environment? Provide analysis. **No**

There is low risk at this site for the following reasons: 1) there are no drinking water wells at the installation or in the surrounding neighborhoods as local municipalities supply drinking water; 2) Land use controls for this site are in place with the implementation of a dig permit process in which any construction in this area would be identified prior to construction.

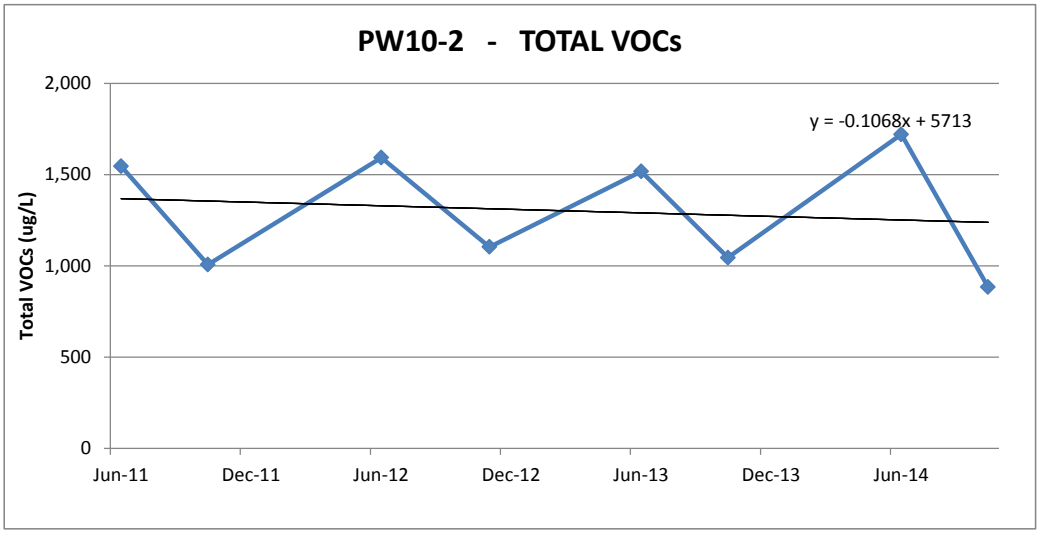
Appendix E
Analytical Data for Well Termination
Site 10, PW10-2
Niagara Falls Air Reserve Station, Niagara Falls, NY
January 2015

Parameter	GPS (ug/L)	Result (ug/L) 6/21/11	10/25/11	6/26/12	11/27/12	6/25/13	10/22/13	6/27/14	10/23/14
Carbon Tetrachloride	5.0	20	8.7	8.7	U	10.9	U		0.68
Chloroform	7.0	74	36	15	2.8 J	9.3	U	3.8	U
1,1-Dichloroethene	5.0	3.5 J	2 J	3	2.3 J	2.6	7.5	4.1	3.2
Cis-1,2-Dichlorothene	5.0	1300	870	1400	970	1340	910	1390	692
Trans -1,2-Dichloroethene	5.0	6.5	3.4 J	24	4.2 J	23.7	7	11.1	3.5
Trichloroethene	5.0	59	38	40	32	46.6	26	30.1	9.6
Vinyl Chloride	2.0	74	47	97	89.0	79.4	92.3	275	172
Benzene	1.0	6.8 J	2 J	4.4	3.6 J	3.8	2.5	5.6	3.1
Ethylbenzene	5.0	1.7 J	U	0.46 J	U	0.54 J	U		U
Toluene	5.0	U	U	U	U	U	U	U	U
Xylene (total)	5.0	U	U	U	U	U	U	U	U
TOTAL VOCs		**1546**	**1007**	**1593**	**1104**	**1517**	**1045**	**1720**	**884**

Notes:

1. Shaded cells indicate exceedence of NYSDEC Groundwater Standard for contaminants of concern as defined in the NYSDEC Part 373 Permit.

GPS = groundwater protection standard
ug/L = microgram per liter
U = undetected
J = estimated



Termination Criteria (Module II.C.3.(c)(1)(iii)of the NYSDEC Part 373 Permit):

1. Does this well meet the termination criteria by achieving the GPSs for an equivalent of 4 years? **No**

Alternative Termination Criteria (Module II.C.3.(c)(1)(iii)(C) of the NYSDEC Part 373 Permit):

1. Does this well achieve "Zero Slope Condition" as defined in the permit? **Yes**
1.a. Plot sum of concentration of hazardous waste constituents from an equivalent of 4 years. See above
1.b. Fit a trendline (either linear or exponential) using least squares regression model. See above
1.c. The slope is less than or equal to zero. Yes

2. Does this well achieve the analytical concentration criteria for a minimum of four years? **No**
2.a. Is the total concentration of COCs less than 100 ug/L? No
2.b. Are single COCs less than 50 ug/L? No

3. Will the residual groundwater contamination result in an unacceptable risk to human health and the environment? Provide analysis. **No**

There is low risk at this site for the following reasons: 1) there are no drinking water wells at the installation or in the surrounding neighborhoods as local municipalities supply drinking water; 2) Land use controls for this site are in place with the implementation of a dig permit process in which any construction in this area would be identified prior to construction.

Appendix E
Analytical Data for Well Termination
Site 10, PZ10-7
Niagara Falls Air Reserve Station, Niagara Falls, NY
January 2015

	GPS	Result (ug/L)			
Parameter	**(ug/L)**	**6/21/11**	**6/26/12**	**6/25/13**	**6/27/14**
Carbon Tetrachloride	5.0	U	U	U	U
Chloroform	7.0	U	U	U	U
1,1-Dichloroethene	5.0	U	U	U	U
Cis-1,2-Dichlorothene	5.0	U	1.8	U	1.1
Trans -1,2-Dichloroethene	5.0	U	U	U	U
Trichloroethene	5.0	U	0.2 J	U	U
Vinyl Chloride	2.0	U	U	U	U
Benzene	1.0	U	U	U	U
Ethylbenzene	5.0	U	U	U	U
Toluene	5.0	U	U	U	U
Xylene (total)	5.0	U	U	U	U
TOTAL VOCs		**0**	**2**	**0**	**1.1**

Notes:

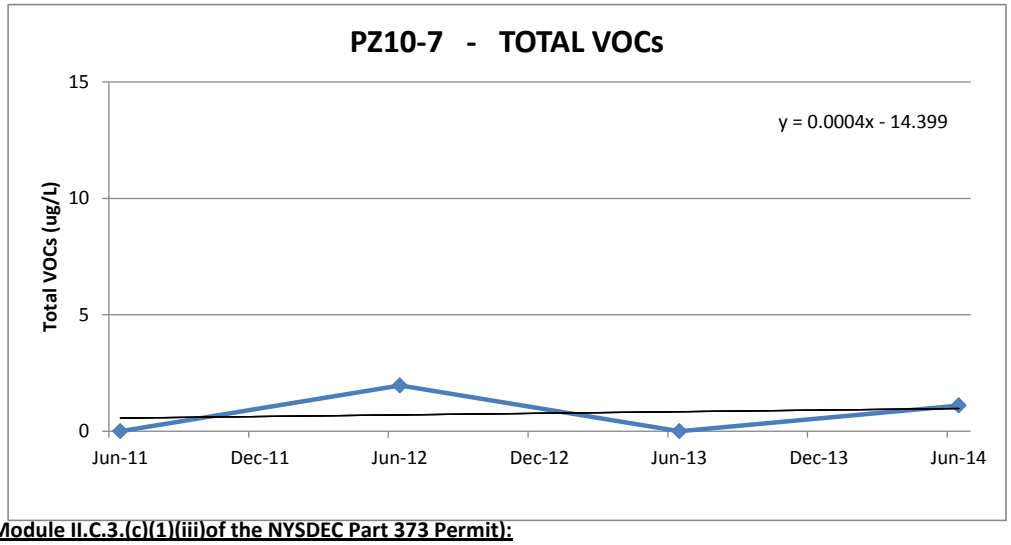
1. Shaded cells indicate exceedence of NYSDEC Groundwater Standard for contaminants of concern as defined in the NYSDEC Part 373 Permit.

GPS = groundwater protection standard

ug/L = microgram per liter

U = undetected

J = estimated



Termination Criteria (Module II.C.3.(c)(1)(iii)of the NYSDEC Part 373 Permit):

1. Does this well meet the termination criteria by achieving the GPSs for an equivalent of 4 years? **Yes**

Alternative Termination Criteria (Module II.C.3.(c)(1)(iii)(C) of the NYSDEC Part 373 Permit):

1. Does this well achieve "Zero Slope Condition" as defined in the permit? **No**

1.a. Plot sum of concentration of hazardous waste constituents from an equivalent of 4 years. See above

1.b. Fit a trendline (either linear or exponential) using least squares regression model. See above

1.c. The slope is less than or equal to zero. No

2. Does this well achieve the analytical concentration criteria for a minimum of four years? **Yes**

2.a. Is the total concentration of COCs less than 100 ug/L? Yes

2.b. Are single COCs less than 50 ug/L? Yes

3. Will the residual groundwater contamination result in an unacceptable risk to human health and the environment? Provide analysis. **No**

There is low risk at this site for the following reasons: 1) there are no drinking water wells at the installation or in the surrounding neighborhoods as local municipalities supply drinking water; 2) Land use controls for this site are in place with the implementation of a dig permit process in which any construction in this area would be identified prior to construction.

Appendix E
Analytical Data for Well Termination
Site 13, MW13-4D
Niagara Falls Air Reserve Station, Niagara Falls, NY
January 2015

Parameter	GPS (ug/L)	Result (ug/L) 6/21/11	10/25/11	6/27/12	11/27/12	6/25/13	10/22/13	6/27/14	10/23/14
Carbon Tetrachloride	5.0	U	U	U	U	U	U	U	U
Chloroform	7.0	U	U	U	U	U	U	U	U
1,1-Dichloroethene	5.0	0.18 J	0.14 J	U	U	U	U	U	U
Cis-1,2-Dichlorothene	5.0	21	17	16	12	18.1	9.1	14.2	12.6
Trans -1,2-Dichloroethene	5.0	U	U	U	U	U	U	U	U
Trichloroethene	5.0	0.31 J	0.21 J	0.14 J	U	U	U	U	U
Vinyl Chloride	2.0	26	30	14	U	15.0	13.8	17.4	13.8
Benzene	1.0	0.51 J	0.55 J	0.43 J	U	U	U	U	U
Ethylbenzene	5.0	U	U	U	U	U	U	U	U
Toluene	5.0	U	U	U	U	U	U	U	U
Xylene (total)	5.0	U	U	U	U	U	U	U	U
TOTAL VOCs		**48**	**47.9**	**30.6**	**12**	**33.1**	**22.9**	**31.6**	**26.4**

Notes:

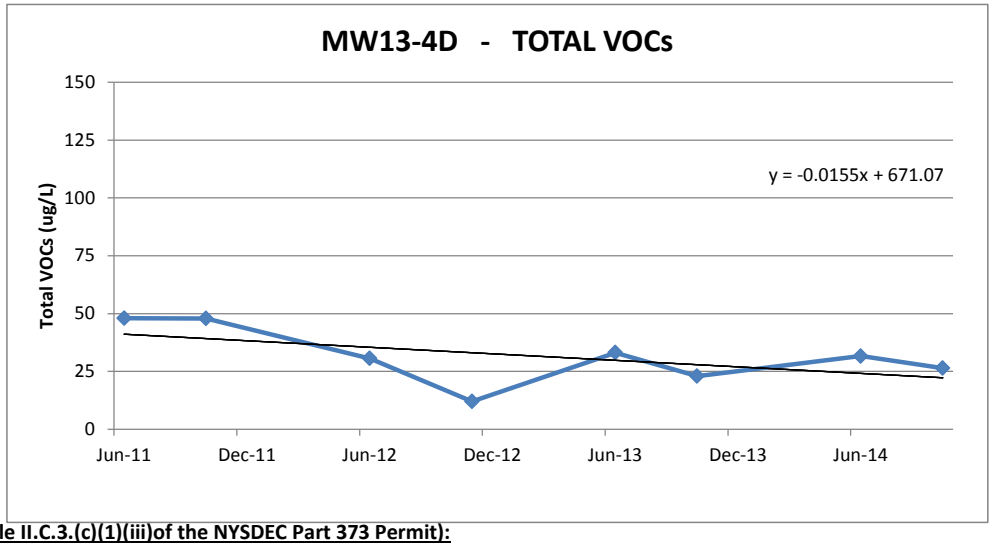
1. Shaded cells indicate exceedence of NYSDEC Groundwater Standard for contaminants of concern as defined in the NYSDEC Part 373 Permit.

GPS = groundwater protection standard

ug/L = microgram per liter

U = undetected

J = estimated



Termination Criteria (Module II.C.3.(c)(1)(iii)of the NYSDEC Part 373 Permit):

1. Does this well meet the termination criteria by achieving the GPSs for an equivalent of 4 years? **No**

Alternative Termination Criteria (Module II.C.3.(c)(1)(iii)(C) of the NYSDEC Part 373 Permit):

1. Does this well achieve "Zero Slope Condition" as defined in the permit? **Yes**

1.a. Plot sum of concentration of hazardous waste constituents from an equivalent of 4 years. See above

1.b. Fit a trendline (either linear or exponential) using least squares regression model. See above

1.c. The slope is less than or equal to zero. Yes

2. Does this well achieve the analytical concentration criteria for a minimum of four years? **Yes**

2.a. Is the total concentration of COCs less than 100 ug/L? Yes

2.b. Are single COCs less than 50 ug/L? Yes

3. Will the residual groundwater contamination result in an unacceptable risk to human health and the environment? Provide analysis. **No**

There is low risk at this site for the following reasons: 1) there are no drinking water wells at the installation or in the surrounding neighborhoods as local municipalities supply drinking water; 2) a 2007 vapor intrusion study has shown that vapors are not of concern in the buildingS closest to the site (Building 904 and 912); 3) Land use controls for this site are in place with the implementation of a dig permit process in which any construction in this area would be identified prior to construction.

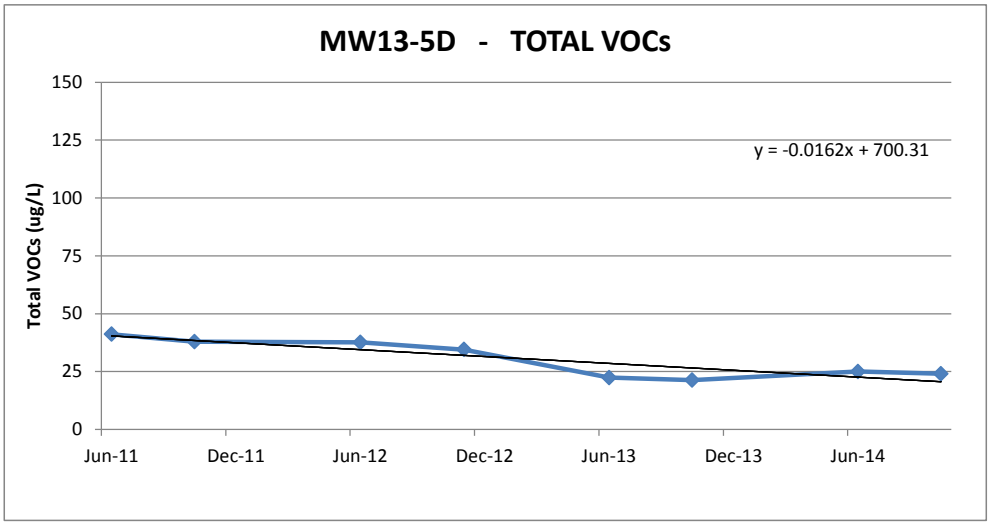
Appendix E
Analytical Data for Well Termination
Site 13, MW13-5D
Niagara Falls Air Reserve Station, Niagara Falls, NY
January 2015

Parameter	GPS (ug/L)	Result (ug/L) 6/21/11	10/25/11	6/27/12	11/27/12	6/25/13	10/22/13	6/27/14	10/23/14
Carbon Tetrachloride	5.0	U	U	U	U	U	U	U	U
Chloroform	7.0	U	U	U	U	U	U	U	U
1,1-Dichloroethene	5.0	0.12 J	0.18 J	U	U	U	U	U	U
Cis-1,2-Dichlorothene	5.0	36	32	33	30	20.9	17.8	21.3	19.3
Trans -1,2-Dichloroethene	5.0	1.8	1.2	1.6	1.5	U	0.79 J	1.2	0.95
Trichloroethene	5.0	3.2	4.1	3.0	3	1.5	1.4	2.5	1.7
Vinyl Chloride	2.0	U	0.45 J	U	U	U	1.3	U	2.1
Benzene	1.0	U	U	U	U	U	U	U	U
Ethylbenzene	5.0	U	U	U	U	U	U	U	U
Toluene	5.0	U	U	U	U	U	U	U	U
Xylene (total)	5.0	U	U	U	U	U	U	U	U
TOTAL VOCs		**41.1**	**37.9**	**37.6**	**34.5**	**22.4**	**21.3**	**25**	**24.1**

Notes:

1. Shaded cells indicate exceedence of NYSDEC Groundwater Standard for contaminants of concern as defined in the NYSDEC Part 373 Permit.

GPS = groundwater protection standard
ug/L = microgram per liter
U = undetected
J = estimated



Termination Criteria (Module II.C.3.(c)(1)(iii)of the NYSDEC Part 373 Permit):

1. Does this well meet the termination criteria by achieving the GPSs for an equivalent of 4 years? **No**

Alternative Termination Criteria (Module II.C.3.(c)(1)(iii)(C) of the NYSDEC Part 373 Permit):

1. Does this well achieve "Zero Slope Condition" as defined in the permit? **Yes**
1.a. Plot sum of concentration of hazardous waste constituents from an equivalent of 4 years. See above
1.b. Fit a trendline (either linear or exponential) using least squares regression model. See above
1.c. The slope is less than or equal to zero. Yes

2. Does this well achieve the analytical concentration criteria for a minimum of four years? **Yes**
2.a. Is the total concentration of COCs less than 100 ug/L? Yes
2.b. Are single COCs less than 50 ug/L? Yes

3. Will the residual groundwater contamination result in an unacceptable risk to human health and the environment? Provide analysis. **No**

There is low risk at this site for the following reasons: 1) there are no drinking water wells at the installation or in the surrounding neighborhoods as local municipalities supply drinking water; 2) a 2007 vapor intrusion study has shown that vapors are not of concern in the buildingS closest to the site (Building 904 and 912); 3) Land use controls for this site are in place with the implementation of a dig permit process in which any construction in this area would be identified prior to construction.

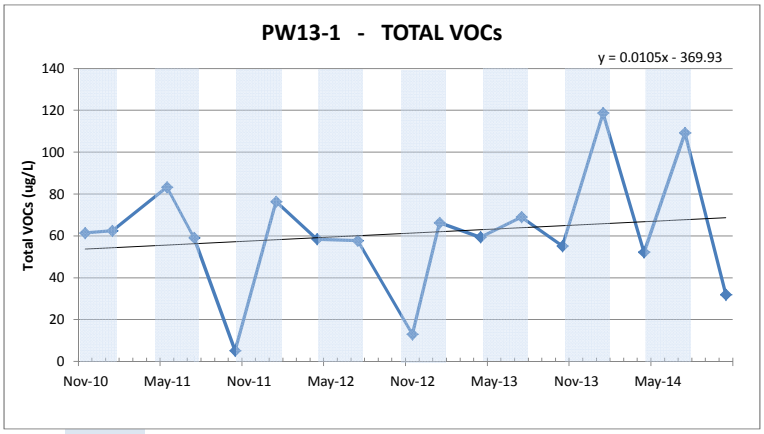
Appendix E
Analytical Data for Well Termination
Site 13, PW13-1
Niagara Falls Air Reserve Station, Niagara Falls, NY
January 2015

Parameter	GPS (ug/L)	Result (ug/L) 11/23/10	1/25/11	5/24/11	7/25/11	10/25/11	1/25/12	4/23/12	7/23/12	11/5/12
Carbon Tetrachloride	5.0	U	U	U	U	U	U	U	U	U
Chloroform	7.0	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	5.0	U	U	U	U	U	U	U	U	U
Cis-1,2-Dichlorothene	5.0	21	22	26	23	3.1	27	36	25	9
Trans -1,2-Dichloroethene	5.0	0.4 J	0.47	0.63 J	U	U	U	U	0.45	0.21 J
Trichloroethene	5.0	30	32	51	25	2	43	16	23	1.6
Vinyl Chloride	2.0	10	8	5.6	11	U	6.4	6.4	9.3	2.1
Benzene	1.0	U	U	U	U	U	U	U	U	U
Ethylbenzene	5.0	U	U	U	U	U	U	U	U	U
Toluene	5.0	U	U	U	U	U	U	U	U	U
Xylene (total)	5.0	U	U	U	U	U	U	U	U	U
TOTAL VOCs		**61.4**	**62.5**	**83.2**	**59**	**5.1**	**76.4**	**58.4**	**57.8**	**12.9**

Parameter	GPS (ug/L)	Result (ug/L) 1/28/13	4/24/13	7/24/13	10/23/13	1/22/14	4/23/14	7/23/14	10/22/14
Carbon Tetrachloride	5.0	U	U	U	U	U	U	U	U
Chloroform	7.0	U	U	U	U	U	U	U	U
1,1-Dichloroethene	5.0	U	U	U	U	U	U	U	U
Cis-1,2-Dichlorothene	5.0	25	24	28.5	28.3	35.6	25.7	40.3	16.9
Trans -1,2-Dichloroethene	5.0	0.41	0.35	U	U	U	0.55 J	0.59 J	U
Trichloroethene	5.0	31	18	33.3	16.9	60.2	16.1	33.7	7.0
Vinyl Chloride	2.0	9.9	17	7.2	9.9	22.8	9.8	34.6	7.9
Benzene	1.0	U	U	U	U	U	U	U	U
Ethylbenzene	5.0	U	U	U	U	U	U	U	U
Toluene	5.0	U	U	U	U	U	U	U	U
Xylene (total)	5.0	U	U	U	U	U	U	U	U
TOTAL VOCs		**66.3**	**59.4**	**69**	**55.1**	**119**	**52.2**	**109**	**31.8**

Notes:
1. Shaded cells indicate exceedence of NYSDEC Groundwater Standard for contaminants of concern as defined in the NYSDEC Part 373 Permit.

GPS = groundwater protection standard
ug/L = microgram per liter
U = undetected
J = estimated



= Site 13 pumps on

Termination Criteria (Module II.C.3.(c)(1)(iii)of the NYSDEC Part 373 Permit):

1. Does this well meet the termination criteria by achieving the GPSs for an equivalent of 4 years? **No**

Alternative Termination Criteria (Module II.C.3.(c)(1)(iii)(C) of the NYSDEC Part 373 Permit):

1. Does this well achieve "Zero Slope Condition" as defined in the permit? **No**
1.a. Plot sum of concentration of hazardous waste constituents from an equivalent of 4 years. See above
1.b. Fit a trendline (either linear or exponential) using least squares regression model. See above
1.c. The slope is less than or equal to zero. No

2. Does this well achieve the analytical concentration criteria for a minimum of four years? **No**
2.a. Is the total concentration of COCs less than 100 ug/L? No
2.b. Are single COCs less than 50 ug/L? No

3. Will the residual groundwater contamination result in an unacceptable risk to human health and the environment? Provide analysis. **No**

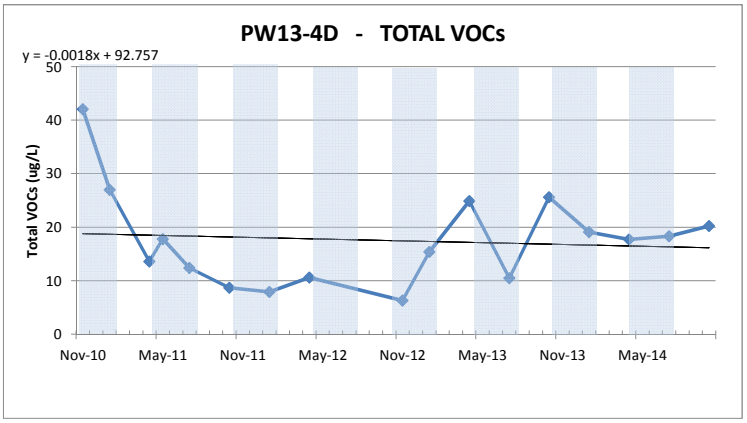
There is low risk at this site for the following reasons: 1) there are no drinking water wells at the installation or in the surrounding neighborhoods as local municipalities supply drinking water; 2) a 2007 vapor intrusion study has shown that vapors are not of concern in the buildings closest to the site (Building 904 and 912); 3) Land use controls for this site are in place with the implementation of a dig permit process in which any construction in this area would be identified prior to construction.

Appendix E
Analytical Data for Well Termination
Site 13, PW13-4D
Niagara Falls Air Reserve Station, Niagara Falls, NY
January 2015

Parameter	GPS (ug/L)	Result (ug/L) 11/23/10	1/25/11	4/27/11	5/24/11	7/25/11	10/25/11	1/25/12	4/23/12	7/23/12
Carbon Tetrachloride	5.0	U	U	U	U	U	U	U	U	U
Chloroform	7.0	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	5.0	U	U	U	U	U	U	U	U	U
Cis-1,2-Dichlorothene	5.0	19	15	6.9	10	7.4	3.9	6.1	5.2	9.4
Trans -1,2-Dichloroethene	5.0	U	U	U	U	U	U	U	U	U
Trichloroethene	5.0	U	U	U	U	U	U	U	U	U
Vinyl Chloride	2.0	23	12	6.7	7.8	5	4.8	1.8	5.4	5.9
Benzene	1.0	U	U	U	U	U	U	U	U	U
Ethylbenzene	5.0	U	U	U	U	U	U	U	U	U
Toluene	5.0	U	U	U	U	U	U	U	U	U
Xylene (total)	5.0	U	U	U	U	U	U	U	U	U
TOTAL VOCs		**42**	**27**	**13.6**	**17.8**	**12.4**	**8.7**	**7.9**	**10.6**	**15.3**

Parameter	GPS (ug/L)	Result (ug/L) 11/5/12	1/28/13	4/24/13	7/24/13	10/23/13	1/22/14	4/23/14	7/23/14	10/22/14
Carbon Tetrachloride	5.0	U	U	U	U	U	U	U	U	U
Chloroform	7.0	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	5.0	U	U	U	U	U	U	U	U	U
Cis-1,2-Dichlorothene	5.0	6.3	10	9.9	8.1	11.4	9.8	7.7	11.2	8.9
Trans -1,2-Dichloroethene	5.0	U	U	U	U	U	U	U	U	U
Trichloroethene	5.0	U	U	U	U	U	U	U	U	U
Vinyl Chloride	2.0	U	5.4	15	2.4	14.2	9.3	10	7.1	11.3
Benzene	1.0	U	U	U	U	U	U	U	U	U
Ethylbenzene	5.0	U	U	U	U	U	U	U	U	U
Toluene	5.0	U	U	U	U	U	U	U	U	U
Xylene (total)	5.0	U	U	U	U	U	U	U	U	U
TOTAL VOCs		**6.3**	**15.4**	**24.9**	**10.5**	**25.6**	**19.1**	**17.7**	**18.3**	**20.2**

Notes:
1. Shaded cells indicate exceedence of NYSDEC Groundwater Standard for contaminants of concern as defined in the NYSDEC Part 373 Permit.
GPS = groundwater protection standard
ug/L = microgram per liter
U = undetected
J = estimated



= Site 13 pumps on

Termination Criteria (Module II.C.3.(c)(1)(iii)of the NYSDEC Part 373 Permit):

1. Does this well meet the termination criteria by achieving the GPSs for an equivalent of 4 years? **No**

Alternative Termination Criteria (Module II.C.3.(c)(1)(iii)(C) of the NYSDEC Part 373 Permit):

1. Does this well achieve "Zero Slope Condition" as defined in the permit? **Yes**
1.a. Plot sum of concentration of hazardous waste constituents from an equivalent of 4 years. See above
1.b. Fit a trendline (either linear or exponential) using least squares regression model. See above
1.c. The slope is less than or equal to zero. Yes

2. Does this well achieve the analytical concentration criteria for a minimum of four years? **Yes**
2.a. Is the total concentration of COCs less than 100 ug/L? Yes
2.b. Are single COCs less than 50 ug/L? Yes

3. Will the residual groundwater contamination result in an unacceptable risk to human health and the environment? Provide analysis. **No**

There is low risk at this site for the following reasons: 1) there are no drinking water wells at the installation or in the surrounding neighborhoods as local municipalities supply drinking water; 2) a 2007 vapor intrusion study has shown that vapors are not of concern in the buildings closest to the site (Building 904 and 912); 3) Land use controls for this site are in place with the implementation of a dig permit process in which any construction in this area would be identified prior to construction.

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Appendix F

Well Inspection Checklist and Landfill Inspection Form

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TABLE F-1

Well Inspections, June 2014

2014 Annual Comprehensive Sampling/Monitoring Report

Niagara Falls Air Reserve Station, New York

Well Number	Water Level (feet TOIC)	Current Depth (feet TOIC)	Well Paint (G/F/P)	Well Label (G/F/P)	Casing Lock (G/F/P)	Protective Cover (G/F/P)	Inner Well Cap (G/F/P)	Equipment in Well	Obstructions in Well (Y/N)	Water in Annulus (Y/N)	Concrete Pad (G/F/P)	Inspection Date	Comments/Needs
Site 1													
MW1-1DA	9.81	24.11	G	G	G	G	G	Y	N	N	G	6/9/2014	
MW1-7A	7.40	13.04	G	G	G	G	G	N	N	N	G	6/9/2014	
Site 2													
MW2-1DA	3.43	14.41	G	G	G	G	G				G	6/9/2014	
Site 3													
MW3-1A	5.61	13.41	F	G	G	G	G	Y	N	N	G	6/9/2014	Paint peeling on casing
MW3-1DA	4.46	16.05	G	G	G	G	G	Y	N	N	G	6/9/2014	
MW3-1E	1.56	44.23	P	G	G	G	P	Y	N	N	F	6/9/2014	Concrete pad cracked, Paint peeling, Cap Broken
MW3-2	5.85	10.11	G	G	G	G	G	Y	N	N	G	6/10/2014	
MW3-2DA	9.00	22.03	G	G	G	G	G	Y	N	N	G	6/10/2014	
MW3-3DA	0.20	17.00	F	G	G	G	G	Y	N	N	F	6/9/2014	Concrete pad cracked, PVC cap cracked
MW3-4DA	1.06	15.67	P	G	G	G	G	Y	N	Y	G	6/9/2014	Paint on casing peeling
MW3-5D	5.00	25.65	G	G	G	G	G	Y	N	N	G	6/9/2014	
MW3-6A	6.40	10.99	G	G	G	G	G	N	N	N	G	6/9/2014	
MW3-6D	5.92	19.06	G	G	G	G	G	N	N	N	G	6/9/2014	
MW3-7	5.78	7.43	G	G	G	G	G	N	N	N	G	6/9/2014	
MW3-8	6.67	12.80	G	G	G	G	G	N	N	N	G	6/9/2014	Bees nest in well casing
MW3-8D	12.87	23.77	G	G	G	G	G	N	N	N	G	6/9/2014	
MW3-8E	12.88	46.50	G	G	G	G	G	N	N	N	G	6/9/2014	
PW3-3A	0.90	14.02	N/A	G	G	G	N/A	Y	N	N	G	6/9/2014	
PZ3-1	2.51	5.83	N/A	G	G	G	G	Y	N	N	G	6/9/2014	Bolts stripped
PZ3-1D	2.74	12.45	N/A	G	G	G	G	Y	N	N	G	6/9/2014	Bolts stripped
PZ3-2	1.62	4.26	N/A	P	G	G	G	Y	N	N	G	6/9/2014	No label. Bolts stripped
PZ3-2D	1.70	12.76	N/A	G	G	G	G	Y	N	N	G	6/9/2014	Bolts stripped
PZ3-3	0.78	2.30	N/A	G	G	G	G	Y	N	N	G	6/9/2014	
PZ3-3D	0.65	9.44	N/A	G	G	G	G	Y	N	N	G	6/9/2014	Missing 1 bolt. Cover does not bolt down
PZ3-4	3.00	3.30	N/A	G	G	G	G	Y	N	N	G	6/9/2014	Bolts stripped
PZ3-4D	1.36	11.58	N/A	P	G	G	G	Y	N	N	G	6/9/2014	Bolts stripped
PZ3-5	0.40	2.86	N/A	G	G	G	G	Y	N	Y	G	6/9/2014	Bolts stripped
PZ3-5D	TOC	10.24	N/A	G	G	G	G	Y	N	Y	G	6/9/2014	Soft bottom. Bolts stripped
PZ3-6D	TOC	12.88	N/A	G	G	G	G	N	N	N	G	6/9/2014	Bolts stripped
PZ3-7D	3.26	21.52	N/A	G	G	G	G	Y	N	N	G	6/9/2014	
PZ3-8D	3.75	18.35	N/A	G	G	G	G	Y	N	N	G	6/9/2014	

NOTE: TOIC = Top of Inner Casing
G = Good
F = Fair
P = Poor
Y = Yes
N = No
PDB = Passive Diffusion Bag
N/A = Not applicable
TOC = Top of Casing

Well Number	Water Level (feet TOIC)	Current Depth (feet TOIC)	Well Paint (G/F/P)	Well Label (G/F/P)	Casing Lock (G/F/P)	Protective Cover (G/F/P)	Inner Well Cap (G/F/P)	Equipment in Well	Obstructions in Well (Y/N)	Water in Annulus (Y/N)	Concrete Pad (G/F/P)	Inspection Date	Comments/Needs
Site 5													
CH5-01	10.20	32.51	N/A	G	G	G	G	N	N	N	G	6/9/2014	
CH5-02	10.01	32.92	N/A	G	G	G	G	N	N	Y	G	6/9/2014	
CH5-03	10.24	32.64	N/A	G	G	G	G	N	N	N	G	6/9/2014	
CH5-04	10.47	33.85	N/A	G	G	G	G	N	N	N	G	6/9/2014	
MW5-1A	11.02	15.98	G	G	P	G	G	N	N	N	G	6/9/2014	Replace lock
MW5-1DA	12.87	28.70	F	G	G	G	G	Y	N	N	G	6/9/2014	
MW5-1E	10.85	57.17	N/A	G	P	P	G	Y	N	Y	G	6/9/2014	Replace lock. Bolts stripped
MW5-2D	12.81	26.38	F	G	G	G	G	N	N	N	G	6/9/2014	
MW5-3D	12.62	25.28	F	G	G	G	G	N	N	N	G	6/9/2014	
MW5-4	11.56	15.58	G	P	G	G	G	N	N	N	G	6/9/2014	Replace well label
MW5-4D	10.52	25.90	G	G	G	G	G				G	6/9/2014	
MW5-5A	16.62	20.01	G	G	G	G	P	N	N	N	G	6/9/2014	Replace 2in. J-plug
MW5-5D	10.15	27.28	N/A	G	G	P	G	Y	N	Y	G	6/9/2014	Bolt holes stripped
MW5-6	8.15	13.51	N/A	G	G	P	G	Y	N	N	G	6/9/2014	Bolt holes stripped
MW5-6D	6.20	22.91	N/A	G	G	P	G	N	N	N	G	6/9/2014	Bolt holes stripped
MW5-7	7.87	12.91	N/A	G	G	P	G	Y	N	Y	G	6/9/2014	Bolt holes stripped
MW5-7D	6.66	22.55	N/A	G	G	P	G	Y	N	Y	G	6/9/2014	Bolt holes stripped
MW5-8	5.37	10.50	N/A	G	G	P	G	N	N	Y	F	6/9/2014	Bolt holes stripped. Concrete pad loose/upheaval
MW5-8D	8.33	20.31	N/A	G	G	G	G	N	N	N	G	6/9/2014	
RW5-1	8.39	14.61	N/A	G	G	P	G	Y	N	N	G	6/9/2014	Bolt holes stripped
RW5-2	6.70	11.02	N/A	G	G	G	G	Y	N	N	G	6/9/2014	
RW5-3	9.31	14.16	N/A	G	G	G	G	Y	N	N	G	6/9/2014	
RW5-4	8.88	14.74	N/A	G	G	P	G	Y	N	N	G	6/9/2014	Bolt missing. Well cover cracked (3-wing cover)
Site 7													
MW7-1D	6.20	10.92	N/A	G	G	G	G	Y	N	Y	G	6/9/2014	
MW7-2	4.69	5.87	N/A	G	G	G	G	N	N	Y	Y	6/9/2014	Flush mount filled with water
MW7-2D	4.76	15.26	N/A	None	None	G	F	N	N	N	Y	6/9/2014	No lock or label
MW7-3D	4.03	15.04	N/A	P	G	G	G	Y	N	N	G	6/9/2014	
Site 8													
CH8-01	8.95	32.22	N/A	P	G	G	G	N	N	N	G	6/9/2014	Replace label
MW8-1	8.77	13.72	N/A	P	G	G	G	N	N	Y	P	6/9/2014	Replace label, Well pad upheaved
MW8-10D	10.97	24.72	G	G	G	G	G	Y	N	N	G	6/9/2014	
MW8-11	13.66	16.63	F	G	G	P	G	Y	N	N	G	6/9/2014	Paint peeling, Stickup upheaved/loose
MW8-11D	12.71	27.22	G	G	G	G	G	Y	N	N	G	6/9/2014	
MW8-11E	13.41	49.58	G	G	G	G	G	Y	N	N	G	6/9/2014	
MW8-1E	16.78	50.60	N/A	G	G	G	G	Y	N	N	G	6/9/2014	
MW8-2D	11.31	29.99	F	G	G	G	G	Y	N	N	G	6/9/2014	Paint peeling
MW8-3	10.19	14.61	F	G	G	G	G	Y	N	N	P	6/9/2014	Paint peeling, Well pad upheaved
MW8-3DA	12.04	26.61	F	G	G	G	G	Y	N	N	G	6/9/2014	Paint peeling
MW8-4A	11.00	14.95	F	G	G	G	G	Y	N	N	G	6/9/2014	Paint peeling
MW8-4D	9.42	22.44	P	G	G	G	G	N	N	N	G	6/9/2014	Paint peeling
MW8-5A	10.05	15.00	G	G	G	G	G	N	N	N	G	6/9/2014	
MW8-8	11.37	13.90	G	G	G	G	G	Y	N	N	G	6/9/2014	

Well Number	Water Level (feet TOIC)	Current Depth (feet TOIC)	Well Paint (G/F/P)	Well Label (G/F/P)	Casing Lock (G/F/P)	Protective Cover (G/F/P)	Inner Well Cap (G/F/P)	Equipment in Well	Obstructions in Well (Y/N)	Water in Annulus (Y/N)	Concrete Pad (G/F/P)	Inspection Date	Comments/Needs
Site 10													
MW10-10D	10.02	24.70	G	G	G	G	G	Y	N	N	G	6/9/2014	Steel cover broken, filled with sand
MW10-1DA	9.51	22.94	G	G	G	G	G	N	N	N	G	6/9/2014	
MW10-1EA	8.42	39.90	G	G	G	G	G	Y	N	N	G	6/9/2014	
MW10-1F	11.15	59.05	G	G	G	G	G	Y	N	N	N/A	6/9/2014	No concrete pad
MW10-2	Dry	8.78	G	G	G	G	G	Y	N	N	G	6/9/2014	Replace lock
MW10-2E	6.87	47.19	N/A	None	G	None	G	N	N	Y	G	6/9/2014	Replace stick up cover
MW10-3	9.40	9.40	G	G	G	G	G	N	N	N	G	6/9/2014	Replace lock
MW10-3D	1.38	25.83	N/A	G	G	G	G	Y	N	Y	G	6/9/2014	
MW10-3E	7.02	43.25	G	G	G	G	G	Y	N	N	G	6/9/2014	
MW10-4	7.86	8.05	G	G	G	G	G	Y	N	N	G	6/9/2014	
MW10-4D	8.33	19.95	G	G	G	G	G	Y	N	N	G	6/9/2014	
MW10-4E	7.67	41.10	G	G	G	G	G	Y	N	N	G	6/9/2014	
MW10-5D	6.45	19.66	G	G	G	G	G	N	N	N	G	6/9/2014	
MW10-6	8.81	9.62	N/A	G	G	G	G	Y	N	Y	G	6/9/2014	Missing 2 bolts
MW10-7	6.72	9.05	N/A	G	P	None	G	Y	N	Y	G	6/9/2014	Replace lock. Steel cover missing
MW10-8	5.30	9.37	N/A	G	None	G	G	N	N	N	G	6/9/2014	
MW10-8D	5.85	24.22	N/A	G	None	G	G	N	N	N	G	6/9/2014	
MW10-9D	5.73	20.27	N/A	G	None	None	G	Y	N	N	G	6/9/2014	Stick up cover broken
MW10-11	6.35	7.40	N/A	G	G	G	G	Y	N	Y	F	6/9/2014	Concrete pad loose
MW10-11D	6.45	17.35	N/A	G	G	G	G	Y	N	Y	G	6/9/2014	
MW10-12	6.38	8.38	N/A	G	G	G	G	Y	N	Y	G	6/9/2014	
MW10-12D	8.41	18.82	N/A	G	G	G	G	Y	N	Y	G	6/9/2014	
MW10-13	6.93	6.96	N/A	G	G	G	G	Y	N	Y	G	6/9/2014	
MW10-13D	7.15	16.80	N/A	G	G	G	G	Y	N	Y	G	6/9/2014	
PW10-1	11.80	13.81	G	G	G	G	N/A	Y	N	N	N/A	6/9/2014	
PW10-2	14.76	25.00	N/A	None	N/A	G	N/A	Y	N	Y	N/A	6/9/2014	
PZ10-7	5.59	10.05	N/A	G	G	G	G	Y	N	N	N/A	6/9/2014	

Well Number	Water Level (feet TOIC)	Current Depth (feet TOIC)	Well Paint (G/F/P)	Well Label (G/F/P)	Casing Lock (G/F/P)	Protective Cover (G/F/P)	Inner Well Cap (G/F/P)	Equipment in Well	Obstructions in Well (Y/N)	Water in Annulus (Y/N)	Concrete Pad (G/F/P)	Inspection Date	Comments/Needs
Site 13													
MW13-1	9.42	10.06	G	G	G	G	G	Y	N	N	G	6/9/2014	
MW13-1D	8.41	20.66	G	G	G	G	G	Y	N	N	G	6/9/2014	
MW13-1E	16.42	43.84	F	G	G	G	G	Y	N	N	G	6/9/2014	Apply paint to casing
MW13-2D	15.05	23.61	F	G	G	G	G	N	N	N	G	6/9/2014	Apply paint to casing. Cut down PVC riser so well cover can close
MW13-3	8.85	10.91	F	G	G	G	G	Y	N	N	G	6/9/2014	Apply paint to casing
MW13-3D	4.09	15.95	N/A	G	G	G	G	N	N	N	G	6/9/2014	
MW13-4	10.43	10.94	P	G	G	G	G	Y	N	N	G	6/9/2014	Apply paint to casing
MW13-4D	9.79	18.73	F	G	G	G	G	Y	N	N	G	6/9/2014	Apply paint to casing
MW13-5A	7.15	8.07	N/A	G	P	G	G	Y	N	N	G	6/9/2014	Replace lock
MW13-5D	15.86	20.71	F	G	G	G	G	Y	N	N	F	6/9/2014	Apply paint to casing. Cracked concrete pad
MW13-6	4.11	6.77	N/A	G	G	P	G	Y	N	N	G	6/9/2014	Replace well cover
MW13-6D	4.66	8.81	N/A	G	G	P	G	Y	N	N	G	6/9/2014	Replace well cover
PW13-1	16.73	27.34	G	G	G	G	N/A	Y	N	N	G	6/9/2014	
PW13-4D	17.74	22.85	G	G	G	G	N/A	Y	N	N	G	6/9/2014	
PZ13-1	3.78	4.30	N/A	G	G	P	G	Y	N	N	G	6/9/2014	Bolt holes stripped
PZ13-1D	5.04	17.01	N/A	G	G	P	G	Y	N	N	G	6/9/2014	Bolt holes stripped
PZ13-2	2.36	5.87	N/A	G	P	P	G	N	N	Y	G	6/9/2014	Replace lock. Bolt holes stripped. Replace gasket
PZ13-2D	6.45	17.25	N/A	G	P	P	G	N	N	Y	G	6/9/2014	Replace lock. Bolt holes stripped. Replace gasket
PZ13-3D	7.70	17.87	N/A	G	P	G	G	Y	N	N	G	6/9/2014	Replace lock
PZ13-4	6.68	9.60	N/A	G	P	P	G	Y	N	Y	G	6/9/2014	Replace lock, well cover, and bolts
PZ13-4D	9.14	22.34	N/A	G	P	P	G	Y	N	N	P	6/9/2014	Replace lock, well cover, and bolts. Concrete pad cracked
Site Former 02													
MPL2-1A	5.57	13.50	P	None	G	G	G	Y	N	N	G	6/9/2014	Paint peeling on casing. No label
Site Former 06													
MPL6-2A	7.83	14.27	G	G	G	G	G	Y	N	N	G	6/9/2014	
MPL6-3	7.53	15.64	G	G	G	G	G	Y	N	N	G	6/9/2014	

SITE 3 LANDFILL – CAP INSPECTION LOG

Inspection Date	Inspector	Maintenance Required?
9/23/2011	Kim Powell (RPM)	Yes – Five low spots observed on landfill cap.
10/26/2012	Kim Powell (RPM)	No Maintenance Required
9/20/2013	Robert Peterson (EA Engineering)	No Maintenance Required
9/24/2014	Frank DeSantis (EA Engineering)	No Maintenance Required

SITE 3 – LANDFILL MAINTENANCE ACTIONS PERFORMED

Maintenance Date	Comments
9/28/2011	Kim Powell called in WO# H1003 to fill in 5 holes on landfill cap with clay, topsoil, and grass seed. Repairs completed in October 2011.