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Engineers
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Planners
Environmental & Safety Professionals
Landscape Architects

HUDSON VALLEY OFFICE
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Poughkeepsie, NY 12601
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www.chazencompanies.com

January 2, 2018

Mr. Damian Duda
USEPA REGION 2
290 Broadway
Mail Code: 20TH FL
New York, NY 10007-1866

Re: Third and Final Semi-Annual Sampling Event - September 2017
Katonah Municipal Well Supplemental Site Investigation

Chazen Job # 41433.00

Dear Mr. Duda:

The Chazen Companies (Chazen) have completed the third and final scheduled semi-annual sampling events for the Katonah Municipal Well site in the Town of Bedford, Westchester County, New York. This sampling event occurred on September 22, 2017 and was conducted in general accordance with the EPA approved Quality Assurance Project Plan for the project, using the same methods and procedures included in the approved Work Plan and Sampling and Analysis Plan.

The water table elevation in the wells and at the surface water measuring point in the reservoir were determined and are summarized in the table below along with the historical data collected by Chazen.

Water Table Elevation								
Location	**MP**	**Dec-14**	**Mar-15**	**Jul-15**	**Sep-15**	**Sep-16**	**Apr-17**	**Sep-17**
MW-11R	219.66	198.88	198.96	199.17	198.81	198.78	199.39	198.96
MW-1S	210.54	198.88	198.95	199.13	198.79	198.75	198.98	198.84
MW-4R	213.05	198.87	198.95	199.12	198.78	198.75	199.38	198.80
MW-2S	226.91	198.86	198.97	199.14	198.78	198.78	199.41	198.51
Bridge	232.50	198.50	na	199.13	198.48	198.44	199.16	198.23
in feet above mean sea level								

The laboratory results were reviewed and summarized. A "Hit" summary table of any compound detected in one or more samples at or above the method detection limit is attached.

No compounds were reported at a concentration that exceeds the applicable water quality standard. A summary of the PCE concentration reported in the well network is provided below.

[PCE] Summary					
DATE	**MW-11R**	**MW-1S**	**KMW-PW**	**MW-4R**	**MW-2S**
4-Dec-14	0.53	0.55	4.4	**9.3**	nd@0.2
10-Mar-15	0.74	0.71	**5.7**	**11**	nd@0.2
5-Jun-15	0.65	0.55	4.1	*	nd@0.2
10-Sep-15	nd@2.5	nd@2.5	**5.0**	**7.2**	nd@2.5
21-Sep-16	0.83	0.56	3.8	**5.7**	nd@0.2
4-Apr-17	0.86	0.68	3.8	**5.3**	nd@0.2
22-Sep-17	0.53	0.50	2.9	3.9	nd@0.2

* = Results for MW-4R for June 15 at 0.23 event not representative
All results in µg/l

The following supporting documents for the September 2017 sampling event are attached for your use:

- Field sampling logs for the five wells;
- Table summarizing VOC "hits" with comparison to groundwater standards;
- Laboratory Analytical Report; and,
- Data Usability Summary Report (DUSR)

Per your request, we are providing you with this data summary report for your use in evaluating the current extent of PCE concentrations in groundwater at the Katonah Municipal Well Site. Trace residual concentrations of site-related compounds of concern remain in four of the five sampling locations. However, the detected compounds were reported in all monitoring wells at concentrations that are less than their respective water quality standards for the first time since monitoring commenced.

Please let me know at your convenience, if you have any questions or comments regarding this submission.

Sincerely,

Kevin P. McGrath
Senior Scientist

KPM

cc: Town of Bedford, Will Olsen, PG
Attachments: field logs, summary table, lab report, DUSR

SAMPLING LOGS

The Chazen Companies

FIELD DATA SHEET

SAMPLE INFORMATION:

Sample ID: KWF-MW25
Well ID: MW-25
Project Name: ~~Ametek Retrofit~~ Katrah
Sample Location: ~~Woodstock, NY~~

Sample Time: 10:55
Sample Date: 9.22.17
Sample Tech(s): DF
Project and Task #: 41433.00/0504
Project Manager: Kevin McGrath

Sample Matrix *(circle)*: **Groundwater** Soil / Surface Water Air / Drinking Water Other:

WELL INFORMATION:

Well Condition: Stand Pipe - good
Lock Type: Master Lock Key #: 3033

PURGE DATA:

Measuring Point: TOC
Depth to Bottom: 114.80
Depth to Water: 28.49
Water Column Height: *(A)*
(depth to bottom - depth to water)
# of Volumes to be Purged: *(C)*
Gal. to be Purged: *(AxBxC)*

Pipe Width	Gal/Foot *(B)*
1.0"	0.041
1.5"	0.092
2.0"	0.163
2.5"	0.255
3.0"	0.367
4.0"	0.653
6.0"	1.469
8.0"	2.611

Purge Method: Mini-Monsoon Submersible
Start Date:
Start Time:
Stop Time:
Purge Rate (gpm):
Elapsed Time (min):
Well Vol. Purged (#):
Purge Vol. (gal): 0.40
Well went dry? No / Yes
Conditions: No Odor / Odor; Clear / Slightly Turbid / Turbid

FIELD RESULTS:

Gal purged gal	Date & Time	Depth to Water ft	Temp deg C	SpCond mS/cm	Cond mS/cm		TDS g/L		DO mg/L	pH	ORP mV	Turbidity
start	10:25	28.50	13.6	558.7	432.0		0.3627		0.80	7.77	387	clear
0.75	10:30	28.75	13.1	556.4	428.9		0.3614		0.35	7.72	332	clear
1.5	10:35	28.70	13.0	551.4	427.7		0.3581		0.30	7.74	294	clear
2.25	10:40	28.50	13.8	550.9	432.9		0.3581		0.31	7.78	271	clear
3.0	10:45	28.50	13.6	550.2	430.2		0.3575		0.29	7.83	250	clear
~4.0	10:50	28.50	13.9	548.1	433.9		0.3562		0.26	7.87	222	clear
~4.0 total purged			Sampled		10:55							

SAMPLE INFORMATION:

Sample Method: Peristaltic *(Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)*
Sample Type: **Grab** / Composite
Weather:
Sample Depth: ~110'
Barometric Pres.:
Air Temp.(°F): ~70°
Wind: light wind - west
Notes:

LAB REQUESTS:

Laboratory Name: York
Analysis/Method: 8260 - TCL/SDM
Turn Around Time: Normal

QA/QC: Duplicate Equip. Blank Field Blank Trip Blank

The Chazen Companies

FIELD DATA SHEET

SAMPLE INFORMATION:

Sample ID: KWF-MW11R
Well ID: MW-11R
Project Name: ~~Ametek Retron~~ Kodak
Sample Location: ~~Woodstock, NY~~

Sample Time: 12:00
Sample Date: 9-22-17
Sample Tech(s): DF
Project and Task #: 41433.00.0500
Project Manager: Kevin McGrath

Sample Matrix *(circle)*: **Groundwater** Surface Water Drinking Water Soil Air Other:

WELL INFORMATION:

Well Condition: First Mount - Good
Lock Type: N/A
Key #:

PURGE DATA:

Measuring Point: TOC
Depth to Bottom: 65.70
Depth to Water: 20.85
Water Column Height: *(A)* *(depth to bottom - depth to water)*
# of Volumes to be Purged: *(C)*
Gal. to be Purged: *(AxBxC)*

Pipe Width	Gal/Foot *(B)*
1.0"	0.041
1.5"	0.092
2.0"	0.163
2.5"	0.255
3.0"	0.367
4.0"	0.653
6.0"	1.469
8.0"	2.611

Purge Method: Mini-Monsoon Submersible
Start Date:
Start Time:
Stop Time:
Purge Rate (gpm):
Elapsed Time (min):
Well Vol. Purged (#):
Purge Vol. (gal): ≈2.5
Well went dry? No Yes
Conditions: No Odor Odor; Clear Slightly-Turbid Turbid

FIELD RESULTS:

Gal purged gal	Date & Time	Depth to Water ft	Temp deg C	SpCond ~~mS/cm~~ uS/cm	Cond. ~~mS/cm~~ uS/cm		TDS g/L		DO mg/L	pH	ORP mV	Turbid
Start 11:30			17.6	1181	1017		0.7735		5.29	7.41	250	slight
0.50	1135	20.75	17.2	1190	1009		0.7735		5.28	7.41	247	slight
1.0	1140	20.70	16.6	1193	1000		0.7735		5.36	7.41	245	slight
1.5	1145	20.70	16.1	1201	997		0.7800		5.18	7.37	239	clear
2.0	1150	20.70	16.3	1207	982		0.7800		5.28	7.35	235	clear
2.25	1155	20.70	16.0	1213	980		0.7865		5.31	7.33	230	clear
≈2.5 gal purged												
			Sampled @ 12:00									

SAMPLE INFORMATION:

Sample Method: Peristaltic *(Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)*
Sample Type: **Grab** Composite
Weather:
Sample Depth: ~62
Barometric Pres.:
Air Temp.(°F): ~75°
Wind: Light wind - west

Notes: ~~MS/MSD taken from this sample~~ DF

LAB REQUESTS:

Laboratory Name: York
Analysis/Method: 8260 - TCL/SDM
Turn Around Time: Normal

QA/QC: Duplicate Equip. Blank Field Blank Trip Blank

The Chazen Companies

FIELD DATA SHEET

SAMPLE INFORMATION:

Sample ID:	KWF-MW15	Sample Time:	12:55	Sample Matrix *(circle)*:	
Well ID:	MW-15	Sample Date:	9.22.17	*Groundwater*	Soil
Project Name:	Ametek Rotron	Sample Tech(s):	DF	Surface Water	Air
Sample Location:	Woodstock, NY	Project and Task #:	4/4/33.00 TO5A0	Drinking Water	Other:
		Project Manager:	Kevin McGrath		

WELL INFORMATION:

Well Condition: Flush Mount - Good

Lock Type: N/A Key #:

PURGE DATA:

Measuring Point: TOC

Depth to Bottom: 56.50

Depth to Water: 11.70

Water Column Height: *(A)*

(depth to bottom - depth to water)

# of Volumes to be Purged: *(C)*

Gal. to be Purged: *(AxBxC)*

Pipe Width	Gal/Foot *(B)*
1.0"	0.041
1.5"	0.092
2.0"	0.163
2.5"	0.255
3.0"	0.367
4.0"	0.653
6.0"	1.469
8.0"	2.611

Purge Method: Mini-Monsoon Submersible

Start Date:

Start Time:

Stop Time:

Purge Rate (gpm):

Elapsed Time (min):

Well Vol. Purged (#):

Purge Vol. (gal): ~4.5

Well went dry? No Yes

Conditions: No Odor / Odor; Clear / Slightly-Turbid / Turbid

FIELD RESULTS:

Gal purged gal	Date & Time	Depth to Water ft	Temp deg C	SpCond ~~mS/cm~~ uS/cm	Cond. uS/cm ~~mS/cm~~		TDS g/L		DO mg/L	pH	ORP mV	Turbid
Start	1220	11.70	15.0	1217	988		0.7995		5.14	7.47	227	slight
0.75	1225	11.75	14.6	1281	1027		0.8320		4.48	7.32	226	slight
1.5	1230	11.70	14.4	1284	1026		0.8320		3.65	7.27	219	slight
2.25	1235	11.70	14.4	288	1029		0.8385		1.76	7.15	218	slight
3.0	1240	11.70	14.1	1296	1026		0.8450		0.66	7.22	218	slight
3.75	1245	11.70	13.8	1297	1020		0.8450		0.43	7.22	212	slight
4.5	1250	11.7	13.7	1296	1016		0.8450		0.30	7.22	208	slight
	Sampled @ 1255						~4.79 gal purged					

SAMPLE INFORMATION:

Sample Method: Peristaltic *(Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)*

Sample Type: *Grab* Composite

Weather:

Sample Depth: ~54'

Barometric Pres.:

Air Temp.(°F): ~75°

Wind: light - var

Notes: MS/MSD collected from 4th sample

MS/MSD

LAB REQUESTS:

Laboratory Name:	Analysis/Method:	Turn Around Time:
York	8260 - TCL/SOM	Normal

QA/QC: Duplicate Equip. Blank Field Blank Trip Blank

The Chazen Companies

FIELD DATA SHEET

SAMPLE INFORMATION:

Sample ID: KWF-MW4R
Well ID: MW-4R
Project Name: ~~Ametek Rotron~~ Kerfoot
Sample Location: ~~Woodstock, NY~~

Sample Time: 1420
Sample Date: 9-22-17
Sample Tech(s): DF
Project and Task #: 41433.00 T0500
Project Manager: Kevin McGrath

Sample Matrix *(circle)*: **Groundwater** Soil / Surface Water Air / Drinking Water Other:

WELL INFORMATION:

Well Condition: Stand Pipe - Good
Lock Type: Master Lock Key #: 3033

PURGE DATA:

Measuring Point: TOC
Depth to Bottom: 101.50
Depth to Water: 14.25
Water Column Height: *(A)* *(depth to bottom - depth to water)*
# of Volumes to be Purged: *(C)*
Gal. to be Purged: *(AxBxC)*

(B)

Pipe Width	Gal/Foot
1.0"	0.041
1.5"	0.092
2.0"	0.163
2.5"	0.255
3.0"	0.367
4.0"	0.653
6.0"	1.469
8.0"	2.611

Purge Method: Mini-Monsoon Submersible
Start Date:
Start Time:
Stop Time:
Purge Rate (gpm):
Elapsed Time (min):
Well Vol. Purged (#):
Purge Vol. (gal): ~4.25
Well went dry? No Yes
Conditions: No Odor / Odor; Clear / Slightly-Turbid / Turbid

FIELD RESULTS:

Gal purged gal	Date & Time	Depth to Water ft	Temp deg C	SpCond mS/cm	Cond. mS/cm		TDS g/L		DO mg/L	pH	ORP mV	Turbid
Start	1345	14.25	14.3	1437	1144		0.9360		0.43	7.65	305	clear
0.5	1350	14.25	14.6	1479	1167		0.9620		0.30	7.42	256	clear
1.25	1355	14.25	14.7	1494	1188		0.9750		0.26	7.34	239	clear
2.0	1400	14.25	14.5	1494	1195		0.9685		0.23	7.29	230	clear
2.75	1405	14.25	14.6	1496	1199		0.9750		0.21	7.27	224	clear
3.5	1410	14.25	14.5	1498	1201		0.9750		0.18	7.24	218	clear
4.25	1415	14.25	14.5	1501	1200		0.9750		0.17	7.23	216	clear
	Purged ~4.5 gal											
					Sampled @ 1420							

SAMPLE INFORMATION:

Sample Method: Peristaltic *(Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)*
Sample Type: **Grab** Composite
Weather:
Sample Depth: ~95'
Barometric Pres.:
Air Temp.(°F):
Wind: Gusting - South
Notes: Field Duplicate taken from this sample

LAB REQUESTS:

Laboratory Name: York
Analysis/Method: 8260 - TCL/SDM
Turn Around Time: Normal

QA/QC: Duplicate Equip. Blank Field Blank Trip Blank

The Chazen Companies

FIELD DATA SHEET

SAMPLE INFORMATION:

Sample ID: KWF-PW
Well ID: PW
Project Name: ~~Ametek Rotron~~ Katrich
Sample Location: ~~Woodstock, NY~~

Sample Time: 1500
Sample Date: 9-22-17
Sample Tech(s): DF
Project and Task #: 41433.00 T0509
Project Manager: Kevin McGrath

Sample Matrix *(circle)*: **Groundwater** Surface Water Drinking Water Soil Air Other:

WELL INFORMATION:

Well Condition: N/A

Lock Type: Key #:

PURGE DATA:

Measuring Point: N/A
Depth to Bottom:
Depth to Water:
Water Column Height: *(A)*
(depth to bottom - depth to water)
# of Volumes to be Purged: *(C)*
Gal. to be Purged: ***(AxBxC)***

Pipe Width	(B) Gal/Foot
1.0"	0.041
1.5"	0.092
2.0"	0.163
2.5"	0.255
3.0"	0.367
4.0"	0.653
6.0"	1.469
8.0"	2.611

Purge Method: System Pump ~~Mini Monsoon Submersible~~ Dedicated
Start Date:
Start Time:
Stop Time:
Purge Rate (gpm):
Elapsed Time (min):
Well Vol. Purged (#):
Purge Vol. (gal):
Well went dry? No Yes
Conditions: ~~No Odor~~ Clear Odor Slightly-Turbid Turbid

FIELD RESULTS:

Gal purged gal	Date & Time	Depth to Water ft	Temp deg C	SpCond mS/cm	Cond. mS/cm		TDS g/L		DO mg/L	pH	ORP mV	
~5gal	1455	—	13.4	1430	1110		0.9296		4.50	7.59	353	clear
Ran pump for 5 min @ ≈ 315 gpm prior to sampling.												

SAMPLE INFORMATION:

Sample Method: Sample Port *(Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)*
Sample Type: **Grab** Composite
Sample Depth:
Weather:
Barometric Pres.:
Wind:
Air Temp.(°F):
Notes: Parameters taken from system influent prior to sample

LAB REQUESTS:

Laboratory Name: York
Analysis/Method: 8260 - TCL/SDM
Turn Around Time: Normal

QA/QC: Duplicate Equip. Blank Field Blank Trip Blank

HIT Summary Table

Summary of VOC Detections

Katonah Municipal Well SSI

September 2017 Semi-annual Groundwater Sampling Event

Sample ID	**Groundwater Standard**	**KWF-MW2S**		**KWF-MW11R**		**KWF-MW1S**		**KWF-MW4R**		**KWF-PW**	
Laboratory ID		**17I0914-01**		**17I0914-02**		**17I0914-03**		**17I0914-04**		**17I0914-05**	
Sampling Date		**9/22/2017**		**9/22/2017**		**9/22/2017**		**9/22/2017**		**9/22/2017**	
Sample Matrix		**Water**		**Water**		**Water**		**Water**		**Water**	
Compound		Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Volatile Organics, 8260 - TCL/SOM (low level)	ug/L	ug/L		ug/L		ug/L		ug/L		ug/L	
Carbon disulfide	~	0.22	J	0.20	U	0.20	U	0.20	U	0.20	U
Chloroform	7	0.20	U	0.38	J	0.20	U	0.20	U	0.20	U
Tetrachloroethylene	5	0.20	U	0.53		0.50		3.9		2.9	
Trichloroethylene	5	0.20	U	0.20	U	0.46	J	0.20	U	0.20	U

NOTES:

Any Regulatory Exceedences are color coded by Regulation

Q is the Qualifier Column with definitions as follows:

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

U=analyte not detected at or above the level indicated

~=this indicates that no regulatory limit has been established for this analyte

Laboratory Report

Table of Contents for York SDG 17I0914

Technical Report

prepared for:

Chazen Environmental Services (Poughkeepsie)
21 Fox Street
Poughkeepsie NY, 12601
Attention: Will Olsen

Report Date: 11/02/2017
Client Project ID: 41433.00-Katonah Task 0500
York Project (SDG) No.: 17I0914

Report Date: 11/02/2017
Client Project ID: 41433.00-Katonah Task 0500
York Project (SDG) No.: 17I0914

Chazen Environmental Services (Poughkeepsie)
21 Fox Street
Poughkeepsie NY, 12601
Attention: Will Olsen

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on September 22, 2017 and listed below. The project was identified as your project: **41433.00-Katonah Task 0500**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
17I0914-01	KWF-MW2S	Water	09/22/2017	09/22/2017
17I0914-02	KWF-MW11R	Water	09/22/2017	09/22/2017
17I0914-03	KWF-MW1S	Water	09/22/2017	09/22/2017
17I0914-04	KWF-MW4R	Water	09/22/2017	09/22/2017
17I0914-05	KWF-PW	Water	09/22/2017	09/22/2017
17I0914-06	KWF-FD	Water	09/22/2017	09/22/2017
17I0914-07	KWF-EB	Water	09/22/2017	09/22/2017
17I0914-08	KWF-TB	Water	09/22/2017	09/22/2017

General Notes for York Project (SDG) No.: 17I0914

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 11/02/2017

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: KWF-MW2S

York Sample ID: 17I0914-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17I0914	41433.00-Katonah Task 0500	Water	September 22, 2017 10:55 am	09/22/2017

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			

Sample Information

Client Sample ID: KWF-MW2S

York Sample ID: 17I0914-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17I0914	41433.00-Katonah Task 0500	Water	September 22, 2017 10:55 am	09/22/2017

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-15-0	**Carbon disulfide**	**0.22**	J	ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NELAC-NY10854			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NELAC-NY10854			
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			

Sample Information

Client Sample ID: KWF-MW2S **York Sample ID:** 17I0914-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17I0914	41433.00-Katonah Task 0500	Water	September 22, 2017 10:55 am	09/22/2017

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:21	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*104 %*	*69-130*
2037-26-5	*Surrogate: Toluene-d8*	*92.8 %*	*81-117*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*107 %*	*79-122*

Sample Information

Client Sample ID: KWF-MW11R **York Sample ID:** 17I0914-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17I0914	41433.00-Katonah Task 0500	Water	September 22, 2017 12:00 pm	09/22/2017

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			

Sample Information

Client Sample ID: KWF-MW11R

York Sample ID: 17I0914-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17I0914	41433.00-Katonah Task 0500	Water	September 22, 2017 12:00 pm	09/22/2017

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
67-66-3	**Chloroform**	**0.38**	J	ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			

Sample Information

Client Sample ID: KWF-MW11R

York Sample ID: 17I0914-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17I0914	41433.00-Katonah Task 0500	Water	September 22, 2017 12:00 pm	09/22/2017

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NELAC-NY10854			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NELAC-NY10854			
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
127-18-4	**Tetrachloroethylene**	**0.53**		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	09/27/2017 10:00	09/27/2017 21:47	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*99.9 %*	*69-130*
2037-26-5	*Surrogate: Toluene-d8*	*93.6 %*	*81-117*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*110 %*	*79-122*

Sample Information

Client Sample ID: KWF-MW1S

York Sample ID: 17I0914-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17I0914	41433.00-Katonah Task 0500	Water	September 22, 2017 12:55 pm	09/22/2017

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			

Sample Information

Client Sample ID: KWF-MW1S

York Sample ID: 17I0914-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17I0914	41433.00-Katonah Task 0500	Water	September 22, 2017 12:55 pm	09/22/2017

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NELAC-NY10854			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NELAC-NY10854			
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
127-18-4	**Tetrachloroethylene**	**0.50**		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			

Sample Information

Client Sample ID: **KWF-MW1S** **York Sample ID:** **17I0914-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17I0914	41433.00-Katonah Task 0500	Water	September 22, 2017 12:55 pm	09/22/2017

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-01-6	**Trichloroethylene**	**0.46**	J	ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:14	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*103 %*	*69-130*
2037-26-5	*Surrogate: Toluene-d8*	*93.7 %*	*81-117*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*106 %*	*79-122*

Sample Information

Client Sample ID: **KWF-MW4R** **York Sample ID:** **17I0914-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17I0914	41433.00-Katonah Task 0500	Water	September 22, 2017 2:20 pm	09/22/2017

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			

Sample Information

Client Sample ID: KWF-MW4R

York Sample ID: 17I0914-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17I0914	41433.00-Katonah Task 0500	Water	September 22, 2017 2:20 pm	09/22/2017

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			

Sample Information

Client Sample ID: KWF-MW4R

York Sample ID: 17I0914-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17I0914	41433.00-Katonah Task 0500	Water	September 22, 2017 2:20 pm	09/22/2017

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NELAC-NY10854			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NELAC-NY10854			
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
127-18-4	**Tetrachloroethylene**	**3.9**		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	09/27/2017 10:00	09/27/2017 22:40	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*100 %*	*69-130*
2037-26-5	*Surrogate: Toluene-d8*	*93.2 %*	*81-117*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*106 %*	*79-122*

Sample Information

Client Sample ID: KWF-PW

York Sample ID: 17I0914-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17I0914	41433.00-Katonah Task 0500	Water	September 22, 2017 3:00 pm	09/22/2017

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			

Sample Information

Client Sample ID: KWF-PW

York Sample ID: 17I0914-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17I0914	41433.00-Katonah Task 0500	Water	September 22, 2017 3:00 pm	09/22/2017

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NELAC-NY10854			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NELAC-NY10854			
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
127-18-4	**Tetrachloroethylene**	**2.9**		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			

Sample Information

Client Sample ID: KWF-PW **York Sample ID:** 17I0914-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17I0914	41433.00-Katonah Task 0500	Water	September 22, 2017 3:00 pm	09/22/2017

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:17	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*99.0 %*	*69-130*
2037-26-5	*Surrogate: Toluene-d8*	*93.7 %*	*81-117*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*109 %*	*79-122*

Sample Information

Client Sample ID: KWF-FD **York Sample ID:** 17I0914-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17I0914	41433.00-Katonah Task 0500	Water	September 22, 2017 3:00 pm	09/22/2017

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			

Sample Information

Client Sample ID: KWF-FD

York Sample ID: 17I0914-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17I0914	41433.00-Katonah Task 0500	Water	September 22, 2017 3:00 pm	09/22/2017

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			

Sample Information

Client Sample ID: KWF-FD

York Sample ID: 17I0914-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17I0914	41433.00-Katonah Task 0500	Water	September 22, 2017 3:00 pm	09/22/2017

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NELAC-NY10854			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NELAC-NY10854			
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
127-18-4	**Tetrachloroethylene**	**3.8**		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	09/27/2017 17:00	09/28/2017 05:43	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*101 %*	*69-130*
2037-26-5	*Surrogate: Toluene-d8*	*93.5 %*	*81-117*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*106 %*	*79-122*

Sample Information

Client Sample ID: KWF-EB

York Sample ID: 17I0914-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17I0914	41433.00-Katonah Task 0500	Water	September 22, 2017 2:45 pm	09/22/2017

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			

Sample Information

Client Sample ID: KWF-EB **York Sample ID:** 17I0914-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17I0914	41433.00-Katonah Task 0500	Water	September 22, 2017 2:45 pm	09/22/2017

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NELAC-NY10854			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NELAC-NY10854			
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			

Sample Information

Client Sample ID: KWF-EB **York Sample ID:** 17I0914-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17I0914	41433.00-Katonah Task 0500	Water	September 22, 2017 2:45 pm	09/22/2017

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	09/27/2017 17:00	09/28/2017 06:10	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*99.0 %*	*69-130*
2037-26-5	*Surrogate: Toluene-d8*	*93.5 %*	*81-117*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*104 %*	*79-122*

Sample Information

Client Sample ID: KWF-TB **York Sample ID:** 17I0914-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17I0914	41433.00-Katonah Task 0500	Water	September 22, 2017 3:00 pm	09/22/2017

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			

Sample Information

Client Sample ID: KWF-TB **York Sample ID:** 17I0914-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17I0914	41433.00-Katonah Task 0500	Water	September 22, 2017 3:00 pm	09/22/2017

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			

Sample Information

Client Sample ID: KWF-TB

York Sample ID: 17I0914-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
17I0914	41433.00-Katonah Task 0500	Water	September 22, 2017 3:00 pm	09/22/2017

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	NELAC-NY10854-CT,NJDEP,NELAC-NY10854-			
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NELAC-NY10854			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NELAC-NY10854			
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	09/27/2017 17:00	09/28/2017 04:24	AS
							Certifications:	CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*98.4 %*	*69-130*
2037-26-5	*Surrogate: Toluene-d8*	*93.8 %*	*81-117*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*108 %*	*79-122*

Case Narrative

Client: Chazen Environmental Services (Poughkeepsie)
Client Project ID: 41433.00-Katonah Task 0500
Prepared for: Will Olsen

Introduction

This Case Narrative applies only to the samples submitted to our laboratory on **9/22/2017 5:30:00 PM** as detailed on the chain-of-custody form.

The 8 sample(s) were received intact. Chain-of-custody was maintained from receipt through analysis in the laboratory.

Methodology

All preparation and analyses were conducted according to the appropriate EPA methods detailed in the report.

Sample and Analysis Qualifiers

KWF-EB	Water
KWF-FD	Water
KWF-MW11R	Water
KWF-MW1S	Water
KWF-MW2S	Water
KWF-MW4R	Water
KWF-PW	Water
KWF-TB	Water

QC Sample Non-Conformances

Any QC sample non-conformances (CCV,LCS, DUP, MS) are detailed in the data package and in the attached tables.

No other problems were encountered during analysis.

York Project/SDG no.: 17I0914 Statement

We certify that these data are in compliance with SOP requirements both technically and for completeness for other than the conditions stated above. Release of the data contained in the hard copy report and any electronic deliverables has been authorized by the Laboratory Manager as verified by the signature on this laboratory report.

Approved by: *Ben Gulizia*
Laboratory Director

Date: 11/02/2017

York Analytical Laboratories, Inc.

Formulae Used for Sample Calculations

VOLATILE ORGANICS

1. Volatiles in Air-ppbv

Cx (ppbv) = Compound concentration, ppbv (parts per billion by volume)

$$Cx = \frac{(Ax)(Cis)(DF)}{(Ais)(RRF)}$$

2. Volatiles in Air-ug/m3

Cx (ug/m3)= Compound concentration in ug/m3

$$Cx\ (ug/m3) = \frac{(ppbv \times Molecular\ wt.)}{(24.040)}$$

3. Volatile Organics (water and soil), ug/L or ug/kG

Soils/Waters

$$Cx = \frac{(Ax)(IS)(DF)}{(Ais)(RRF)(V)(\%solids)}$$

Medium Level Soils

$$Cx = \frac{(Ax)(IS)(VT)(1000)(DF)}{(Ais)(RRF)(VA)(V)(\%solids)}$$

4. Semi-Volatiles (waters and soils)

$$Cx = \frac{(Ax)(IS)(VE)(DF)}{(Ais)(RRF)(Volume\ injected,\ uL)(V)(\%solids)}$$

5. Pesticides/PCB (waters and soils), DRO, CTETPH

$$Cx = \frac{(Ax)(VE)(DF)}{(CF)(Volume\ injected,\ uL)(V)(\%solids)}$$

WHERE:

Cx = concentration of analyte as ug/L or ug/kG
Ax = Area of the characteristic ion for the compound to be measured, counts.
Ais = Area of the characteristic ion for the specific internal standard, counts.
IS = Concentration of the internal standard spiking mixture, ng
RRF= Mean relative response factor from the initial calibration.
DF = Dilution factor calculated as described in section 2. If no dilution is performed, DF= 1
V= Volume for liquids in ml, weight for soils/solids in grams.
VA= volume of MeOH aliquot for medium level soils

VE= final volume of concentrated extract
VT= volume of MeOH for volatiles medium level soils
CF= calibration factor for external calibration used in GC pest/pcb
Cis = Concentration of the internal standard spiking mixture, ppbv

Case Narrative Non-Conformance Summary

Laboratory:	York Analytical Laboratories, Inc.	Client:	Chazen Environmental Services (Poughkeepsie)
Project:	41433.00-Katonah Task 0500	Lab Project No:	17I0914
Laboratory Sample ID(s):	17I0914-01 - 17I0914-08	Sampling Date(s):	09/22/2017 - 09/22/2017
Review Date(s):	11/02/2017 - 11/02/2017	Laboratory Reviewer(s):	JD

QC Sample Nonconformances

Batch ID: BI71306 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
BI71306-BS1	Bromomethane - 74-83-9	3.7 ug/L	LCS	36.8	43-168	Low Bias				
BI71306-BSD1	Bromomethane - 74-83-9	3.9 ug/L	LCS Dup	38.9	43-168	Low Bias	5.55	30		
BI71306-MSD1	1,2-Dibromo-3-chloropropane - 96-12-8	4.6 ug/L	Matrix Spike Dup (KWF-MW1S)	45.7	31-151		55.0	30	Non-dir.	
BI71306-MSD1	Acetone - 67-64-1	1.1 ug/L	Matrix Spike Dup (KWF-MW1S)	11.3	13-149	Low Bias	25.5	30		

Batch ID: BI71307 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
BI71307-BSD1	1,3-Dichlorobenzene - 541-73-1	8.4 ug/L	LCS Dup	84.1	86-122	Low Bias	3.04	30		
BI71307-BSD1	Chlorobenzene - 108-90-7	8.8 ug/L	LCS Dup	87.5	88-120	Low Bias	2.37	30		

Batch ID: Y7I2835 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
Y7I2835-CCV1	Bromomethane - 74-83-9	3.02 ug/L	Calibration Check	30.2	80-120	Low Bias				
Y7I2835-CCV1	Chloromethane - 74-87-3	5.22 ug/L	Calibration Check	52.2	80-120	Low Bias				

Batch ID: Y7I2927 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
Y7I2927-CCV1	Acetone - 67-64-1	2.90 ug/L	Calibration Check	29.0	80-120	Low Bias				
Y7I2927-CCV1	Bromomethane - 74-83-9	4.15 ug/L	Calibration Check	41.5	80-120	Low Bias				
Y7I2927-CCV1	Chloromethane - 74-87-3	5.78 ug/L	Calibration Check	57.8	80-120	Low Bias				

Batch ID: BI71306 **General Method:** Volatile Organic Compounds by GC/MS

YORK Sample ID	Client Sample ID
17I0914-01	KWF-MW2S
17I0914-02	KWF-MW11R
17I0914-03	KWF-MW1S
17I0914-04	KWF-MW4R
BI71306-BLK1	Blank
BI71306-BS1	LCS
BI71306-BSD1	LCS Dup
BI71306-MS1	Matrix Spike
BI71306-MSD1	Matrix Spike Dup

Batch ID: BI71307 **General Method:** Volatile Organic Compounds by GC/MS

YORK Sample ID	Client Sample ID
17I0914-05	KWF-PW
17I0914-06	KWF-FD
17I0914-07	KWF-EB
17I0914-08	KWF-TB
BI71307-BLK1	Blank
BI71307-BS1	LCS
BI71307-BSD1	LCS Dup

No Sample Nonconformances Found

Notes: Other RCP nonconformances, if any, are detailed in the Data Quality Assessment worksheets.

For multiple surrogate analyses such as semi-volatiles, volatiles, etc, single surrogate excursions do not necessarily indicate a bias in the sample. Samples with multiple surrogate excursions may exhibit a bias in the results.

Definitions:
LCS - Laboratory Control Sample
LCS dup - Laboratory Control Sample Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
BS - Blank Spike also called LCS
BSD - Blank Spike Duplicate also called LCS dup
SRM - Standard Reference Material
DUP - Duplicate

Analytical Batch Summary

Batch ID: BI71306 **Preparation Method:** EPA 5030B **Prepared By:** AS

YORK Sample ID	Client Sample ID	Preparation Date
17I0914-01	KWF-MW2S	09/27/17
17I0914-02	KWF-MW11R	09/27/17
17I0914-03	KWF-MW1S	09/27/17
17I0914-04	KWF-MW4R	09/27/17
BI71306-BLK1	Blank	09/27/17
BI71306-BS1	LCS	09/27/17
BI71306-BSD1	LCS Dup	09/27/17
BI71306-MS1	Matrix Spike	09/27/17
BI71306-MSD1	Matrix Spike Dup	09/27/17

Batch ID: BI71307 **Preparation Method:** EPA 5030B **Prepared By:** AS

YORK Sample ID	Client Sample ID	Preparation Date
17I0914-05	KWF-PW	09/27/17
17I0914-06	KWF-FD	09/27/17
17I0914-07	KWF-EB	09/27/17
17I0914-08	KWF-TB	09/27/17
BI71307-BLK1	Blank	09/27/17
BI71307-BS1	LCS	09/27/17
BI71307-BSD1	LCS Dup	09/27/17

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BI71306 - EPA 5030B											
Blank (BI71306-BLK1)											
Prepared & Analyzed: 09/27/2017											
1,1,1-Trichloroethane	ND	0.50	ug/L								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	2.0	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
Styrene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BI71306 - EPA 5030B											
Blank (BI71306-BLK1)								Prepared & Analyzed: 09/27/2017			
Vinyl Chloride	ND	0.50	ug/L								
Xylenes, Total	ND	1.5	"								
Surrogate: 1,2-Dichloroethane-d4	*9.72*		*"*	*10.0*		*97.2*	*69-130*				
Surrogate: Toluene-d8	*9.39*		*"*	*10.0*		*93.9*	*81-117*				
Surrogate: p-Bromofluorobenzene	*11.0*		*"*	*10.0*		*110*	*79-122*				
LCS (BI71306-BS1)								Prepared & Analyzed: 09/27/2017			
1,1,1-Trichloroethane	11		ug/L	10.0		105	78-136				
1,1,2,2-Tetrachloroethane	10		"	10.0		103	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10		"	10.0		103	54-165				
1,1,2-Trichloroethane	9.9		"	10.0		99.3	82-123				
1,1-Dichloroethane	11		"	10.0		113	82-129				
1,1-Dichloroethylene	11		"	10.0		108	68-138				
1,2,3-Trichlorobenzene	11		"	10.0		108	76-136				
1,2,4-Trichlorobenzene	11		"	10.0		105	76-137				
1,2-Dibromo-3-chloropropane	9.8		"	10.0		97.5	45-147				
1,2-Dibromoethane	9.9		"	10.0		98.9	83-124				
1,2-Dichlorobenzene	9.8		"	10.0		97.5	79-123				
1,2-Dichloroethane	10		"	10.0		102	73-132				
1,2-Dichloropropane	9.7		"	10.0		97.3	78-126				
1,3-Dichlorobenzene	9.7		"	10.0		96.7	86-122				
1,4-Dichlorobenzene	9.9		"	10.0		99.0	85-124				
2-Butanone	9.5		"	10.0		95.1	49-152				
2-Hexanone	11		"	10.0		108	51-146				
4-Methyl-2-pentanone	9.9		"	10.0		99.1	57-145				
Acetone	8.8		"	10.0		87.9	14-150				
Benzene	11		"	10.0		109	85-126				
Bromochloromethane	11		"	10.0		110	77-128				
Bromodichloromethane	9.6		"	10.0		96.5	79-128				
Bromoform	9.3		"	10.0		93.1	78-133				
Bromomethane	3.7		"	10.0		36.8	43-168	Low Bias			
Carbon disulfide	13		"	10.0		131	68-146				
Carbon tetrachloride	9.0		"	10.0		90.3	77-141				
Chlorobenzene	9.5		"	10.0		94.8	88-120				
Chloroethane	11		"	10.0		111	65-136				
Chloroform	11		"	10.0		107	82-128				
Chloromethane	5.8		"	10.0		58.0	43-155				
cis-1,2-Dichloroethylene	11		"	10.0		106	83-129				
cis-1,3-Dichloropropylene	9.5		"	10.0		95.1	80-131				
Cyclohexane	11		"	10.0		109	63-149				
Dibromochloromethane	9.5		"	10.0		94.8	80-130				
Dichlorodifluoromethane	11		"	10.0		112	44-144				
Ethyl Benzene	10		"	10.0		104	80-131				
Isopropylbenzene	11		"	10.0		105	76-140				
Methyl acetate	11		"	10.0		108	51-139				
Methyl tert-butyl ether (MTBE)	11		"	10.0		106	76-135				
Methylcyclohexane	10		"	10.0		100	72-143				
Methylene chloride	10		"	10.0		102	55-137				
o-Xylene	9.5		"	10.0		95.1	78-130				
p- & m- Xylenes	21		"	20.0		105	77-133				
Styrene	10		"	10.0		103	67-132				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BI71306 - EPA 5030B											
LCS (BI71306-BS1)								Prepared & Analyzed: 09/27/2017			
Tetrachloroethylene	10		ug/L	10.0		101	82-131				
Toluene	9.9		"	10.0		98.9	80-127				
trans-1,2-Dichloroethylene	11		"	10.0		108	80-132				
trans-1,3-Dichloropropylene	9.5		"	10.0		94.9	78-131				
Trichloroethylene	9.8		"	10.0		97.8	82-128				
Trichlorofluoromethane	9.8		"	10.0		97.7	67-139				
Vinyl Chloride	10		"	10.0		102	58-145				
Surrogate: 1,2-Dichloroethane-d4	*9.75*		*"*	*10.0*		*97.5*	*69-130*				
Surrogate: Toluene-d8	*9.45*		*"*	*10.0*		*94.5*	*81-117*				
Surrogate: p-Bromofluorobenzene	*10.7*		*"*	*10.0*		*107*	*79-122*				
LCS Dup (BI71306-BSD1)								Prepared & Analyzed: 09/27/2017			
1,1,1-Trichloroethane	11		ug/L	10.0		105	78-136		0.285	30	
1,1,2,2-Tetrachloroethane	11		"	10.0		106	76-129		2.95	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10		"	10.0		102	54-165		0.681	30	
1,1,2-Trichloroethane	10		"	10.0		101	82-123		1.90	30	
1,1-Dichloroethane	11		"	10.0		112	82-129		0.623	30	
1,1-Dichloroethylene	11		"	10.0		106	68-138		1.12	30	
1,2,3-Trichlorobenzene	11		"	10.0		114	76-136		5.41	30	
1,2,4-Trichlorobenzene	11		"	10.0		109	76-137		3.37	30	
1,2-Dibromo-3-chloropropane	10		"	10.0		100	45-147		2.83	30	
1,2-Dibromoethane	10		"	10.0		102	83-124		3.38	30	
1,2-Dichlorobenzene	9.9		"	10.0		98.9	79-123		1.43	30	
1,2-Dichloroethane	10		"	10.0		103	73-132		1.08	30	
1,2-Dichloropropane	9.8		"	10.0		98.5	78-126		1.23	30	
1,3-Dichlorobenzene	9.5		"	10.0		95.4	86-122		1.35	30	
1,4-Dichlorobenzene	9.8		"	10.0		97.8	85-124		1.22	30	
2-Butanone	11		"	10.0		110	49-152		15.0	30	
2-Hexanone	11		"	10.0		110	51-146		1.47	30	
4-Methyl-2-pentanone	11		"	10.0		105	57-145		5.97	30	
Acetone	8.6		"	10.0		85.7	14-150		2.53	30	
Benzene	11		"	10.0		109	85-126		0.276	30	
Bromochloromethane	11		"	10.0		110	77-128		0.544	30	
Bromodichloromethane	9.8		"	10.0		98.5	79-128		2.05	30	
Bromoform	9.5		"	10.0		95.2	78-133		2.23	30	
Bromomethane	3.9		"	10.0		38.9	43-168	Low Bias	5.55	30	
Carbon disulfide	13		"	10.0		132	68-146		0.0761	30	
Carbon tetrachloride	9.3		"	10.0		92.8	77-141		2.73	30	
Chlorobenzene	9.5		"	10.0		95.1	88-120		0.316	30	
Chloroethane	11		"	10.0		112	65-136		0.988	30	
Chloroform	11		"	10.0		107	82-128		0.561	30	
Chloromethane	5.5		"	10.0		54.9	43-155		5.49	30	
cis-1,2-Dichloroethylene	11		"	10.0		105	83-129		1.14	30	
cis-1,3-Dichloropropylene	9.8		"	10.0		98.3	80-131		3.31	30	
Cyclohexane	11		"	10.0		110	63-149		0.548	30	
Dibromochloromethane	9.6		"	10.0		95.5	80-130		0.736	30	
Dichlorodifluoromethane	11		"	10.0		110	44-144		1.62	30	
Ethyl Benzene	10		"	10.0		103	80-131		0.872	30	
Isopropylbenzene	10		"	10.0		104	76-140		1.15	30	
Methyl acetate	11		"	10.0		111	51-139		3.47	30	
Methyl tert-butyl ether (MTBE)	11		"	10.0		108	76-135		2.34	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BI71306 - EPA 5030B											
LCS Dup (BI71306-BSD1)								Prepared & Analyzed: 09/27/2017			
Methylcyclohexane	10		ug/L	10.0		100	72-143		0.00	30	
Methylene chloride	11		"	10.0		105	55-137		3.38	30	
o-Xylene	9.5		"	10.0		95.0	78-130		0.105	30	
p- & m- Xylenes	21		"	20.0		106	77-133		0.711	30	
Styrene	10		"	10.0		104	67-132		0.675	30	
Tetrachloroethylene	10		"	10.0		102	82-131		1.08	30	
Toluene	10		"	10.0		99.5	80-127		0.605	30	
trans-1,2-Dichloroethylene	11		"	10.0		108	80-132		0.00	30	
trans-1,3-Dichloropropylene	9.6		"	10.0		96.1	78-131		1.26	30	
Trichloroethylene	9.6		"	10.0		96.1	82-128		1.75	30	
Trichlorofluoromethane	9.8		"	10.0		98.3	67-139		0.612	30	
Vinyl Chloride	9.9		"	10.0		99.0	58-145		2.99	30	
Surrogate: 1,2-Dichloroethane-d4	*9.71*		*"*	*10.0*		*97.1*	*69-130*				
Surrogate: Toluene-d8	*9.45*		*"*	*10.0*		*94.5*	*81-117*				
Surrogate: p-Bromofluorobenzene	*10.6*		*"*	*10.0*		*106*	*79-122*				
Matrix Spike (BI71306-MS1)	*Source sample: 17I0914-03 (KWF-MW1S)							Prepared & Analyzed: 09/27/2017			
1,1,1-Trichloroethane	9.6		ug/L	10.0	ND	96.2	70-146				
1,1,2,2-Tetrachloroethane	8.8		"	10.0	ND	87.5	74-121				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.8		"	10.0	ND	88.5	21-217				
1,1,2-Trichloroethane	8.7		"	10.0	ND	86.7	59-146				
1,1-Dichloroethane	10		"	10.0	ND	102	54-146				
1,1-Dichloroethylene	9.6		"	10.0	ND	96.2	44-165				
1,2,3-Trichlorobenzene	8.4		"	10.0	ND	83.5	40-161				
1,2,4-Trichlorobenzene	8.5		"	10.0	ND	84.6	41-161				
1,2-Dibromo-3-chloropropane	8.0		"	10.0	ND	80.4	31-151				
1,2-Dibromoethane	8.9		"	10.0	ND	89.2	75-125				
1,2-Dichlorobenzene	8.2		"	10.0	ND	82.4	63-122				
1,2-Dichloroethane	9.1		"	10.0	ND	91.4	68-131				
1,2-Dichloropropane	8.8		"	10.0	ND	87.9	77-121				
1,3-Dichlorobenzene	8.1		"	10.0	ND	81.2	74-119				
1,4-Dichlorobenzene	8.3		"	10.0	ND	82.6	70-124				
2-Butanone	7.2		"	10.0	ND	72.3	10-193				
2-Hexanone	8.6		"	10.0	ND	85.9	53-133				
4-Methyl-2-pentanone	9.0		"	10.0	ND	90.0	38-150				
Acetone	1.5		"	10.0	ND	14.6	13-149				
Benzene	9.9		"	10.0	ND	98.9	38-155				
Bromochloromethane	9.6		"	10.0	ND	95.8	75-121				
Bromodichloromethane	8.7		"	10.0	ND	87.0	70-129				
Bromoform	8.0		"	10.0	ND	80.0	66-136				
Bromomethane	3.2		"	10.0	ND	32.3	30-158				
Carbon disulfide	11		"	10.0	ND	109	10-138				
Carbon tetrachloride	8.9		"	10.0	ND	89.1	71-146				
Chlorobenzene	8.5		"	10.0	ND	85.0	81-117				
Chloroethane	10		"	10.0	ND	101	51-145				
Chloroform	9.9		"	10.0	ND	98.6	80-124				
Chloromethane	4.8		"	10.0	ND	47.8	16-163				
cis-1,2-Dichloroethylene	9.6		"	10.0	ND	95.9	76-125				
cis-1,3-Dichloropropylene	8.4		"	10.0	ND	84.0	58-131				
Cyclohexane	9.8		"	10.0	ND	98.5	70-130				
Dibromochloromethane	8.3		"	10.0	ND	83.1	71-129				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BI71306 - EPA 5030B											
Matrix Spike (BI71306-MS1)	*Source sample: 17I0914-03 (KWF-MW1S)							Prepared & Analyzed: 09/27/2017			
Dichlorodifluoromethane	9.0		ug/L	10.0	ND	90.2	30-147				
Ethyl Benzene	9.1		"	10.0	ND	91.4	72-128				
Isopropylbenzene	8.8		"	10.0	ND	88.3	66-139				
Methyl acetate	9.3		"	10.0	ND	93.1	10-200				
Methyl tert-butyl ether (MTBE)	9.4		"	10.0	ND	94.4	75-128				
Methylcyclohexane	8.8		"	10.0	ND	88.2	70-130				
Methylene chloride	9.6		"	10.0	ND	95.7	57-128				
o-Xylene	8.4		"	10.0	ND	84.4	69-126				
p- & m- Xylenes	19		"	20.0	ND	93.4	67-130				
Styrene	9.0		"	10.0	ND	90.0	69-125				
Tetrachloroethylene	8.7		"	10.0	0.50	81.9	64-139				
Toluene	8.8		"	10.0	ND	88.2	76-123				
trans-1,2-Dichloroethylene	9.6		"	10.0	ND	96.4	79-131				
trans-1,3-Dichloropropylene	8.2		"	10.0	ND	81.7	55-130				
Trichloroethylene	9.0		"	10.0	0.46	85.2	53-145				
Trichlorofluoromethane	9.4		"	10.0	ND	94.0	61-142				
Vinyl Chloride	8.0		"	10.0	ND	80.4	31-165				
Surrogate: 1,2-Dichloroethane-d4	*10.1*		*"*	*10.0*		*101*	*69-130*				
Surrogate: Toluene-d8	*9.39*		*"*	*10.0*		*93.9*	*81-117*				
Surrogate: p-Bromofluorobenzene	*10.4*		*"*	*10.0*		*104*	*79-122*				
Matrix Spike Dup (BI71306-MSD1)	*Source sample: 17I0914-03 (KWF-MW1S)							Prepared & Analyzed: 09/27/2017			
1,1,1-Trichloroethane	9.6		ug/L	10.0	ND	96.4	70-146		0.208	30	
1,1,2,2-Tetrachloroethane	8.5		"	10.0	ND	85.1	74-121		2.78	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.0		"	10.0	ND	89.9	21-217		1.57	30	
1,1,2-Trichloroethane	8.7		"	10.0	ND	86.6	59-146		0.115	30	
1,1-Dichloroethane	10		"	10.0	ND	101	54-146		0.494	30	
1,1-Dichloroethylene	9.8		"	10.0	ND	97.9	44-165		1.75	30	
1,2,3-Trichlorobenzene	8.4		"	10.0	ND	84.4	40-161		1.07	30	
1,2,4-Trichlorobenzene	8.2		"	10.0	ND	82.2	41-161		2.88	30	
1,2-Dibromo-3-chloropropane	4.6		"	10.0	ND	45.7	31-151		55.0	30	Non-dir.
1,2-Dibromoethane	8.7		"	10.0	ND	86.9	75-125		2.61	30	
1,2-Dichlorobenzene	8.2		"	10.0	ND	82.0	63-122		0.487	30	
1,2-Dichloroethane	9.0		"	10.0	ND	89.5	68-131		2.10	30	
1,2-Dichloropropane	9.0		"	10.0	ND	89.8	77-121		2.14	30	
1,3-Dichlorobenzene	8.0		"	10.0	ND	80.4	74-119		0.990	30	
1,4-Dichlorobenzene	8.2		"	10.0	ND	82.1	70-124		0.607	30	
2-Butanone	8.2		"	10.0	ND	82.3	10-193		12.9	30	
2-Hexanone	8.4		"	10.0	ND	83.7	53-133		2.59	30	
4-Methyl-2-pentanone	8.9		"	10.0	ND	89.4	38-150		0.669	30	
Acetone	1.1		"	10.0	ND	11.3	13-149	Low Bias	25.5	30	
Benzene	9.9		"	10.0	ND	99.2	38-155		0.303	30	
Bromochloromethane	9.8		"	10.0	ND	97.9	75-121		2.17	30	
Bromodichloromethane	8.8		"	10.0	ND	87.8	70-129		0.915	30	
Bromoform	8.1		"	10.0	ND	81.2	66-136		1.49	30	
Bromomethane	3.5		"	10.0	ND	35.3	30-158		8.88	30	
Carbon disulfide	11		"	10.0	ND	109	10-138		0.458	30	
Carbon tetrachloride	9.1		"	10.0	ND	90.9	71-146		2.00	30	
Chlorobenzene	8.6		"	10.0	ND	85.8	81-117		0.937	30	
Chloroethane	10		"	10.0	ND	103	51-145		1.76	30	
Chloroform	9.8		"	10.0	ND	97.6	80-124		1.02	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BI71306 - EPA 5030B											
Matrix Spike Dup (BI71306-MSD1)	*Source sample: 17I0914-03 (KWF-MW1S)							Prepared & Analyzed: 09/27/2017			
Chloromethane	5.4		ug/L	10.0	ND	54.4	16-163		12.9	30	
cis-1,2-Dichloroethylene	9.5		"	10.0	ND	95.4	76-125		0.523	30	
cis-1,3-Dichloropropylene	8.7		"	10.0	ND	86.6	58-131		3.05	30	
Cyclohexane	9.9		"	10.0	ND	99.4	70-130		0.910	30	
Dibromochloromethane	8.4		"	10.0	ND	84.2	71-129		1.31	30	
Dichlorodifluoromethane	9.5		"	10.0	ND	94.9	30-147		5.08	30	
Ethyl Benzene	9.3		"	10.0	ND	92.9	72-128		1.63	30	
Isopropylbenzene	8.9		"	10.0	ND	88.7	66-139		0.452	30	
Methyl acetate	8.9		"	10.0	ND	88.9	10-200		4.62	30	
Methyl tert-butyl ether (MTBE)	9.4		"	10.0	ND	93.8	75-128		0.638	30	
Methylcyclohexane	8.9		"	10.0	ND	88.8	70-130		0.678	30	
Methylene chloride	9.4		"	10.0	ND	94.1	57-128		1.69	30	
o-Xylene	8.5		"	10.0	ND	85.0	69-126		0.708	30	
p- & m- Xylenes	19		"	20.0	ND	94.5	67-130		1.17	30	
Styrene	9.2		"	10.0	ND	91.7	69-125		1.87	30	
Tetrachloroethylene	8.9		"	10.0	0.50	84.3	64-139		2.72	30	
Toluene	9.0		"	10.0	ND	89.7	76-123		1.69	30	
trans-1,2-Dichloroethylene	9.7		"	10.0	ND	96.6	79-131		0.207	30	
trans-1,3-Dichloropropylene	8.3		"	10.0	ND	82.6	55-130		1.10	30	
Trichloroethylene	9.1		"	10.0	0.46	86.4	53-145		1.33	30	
Trichlorofluoromethane	9.7		"	10.0	ND	96.8	61-142		2.94	30	
Vinyl Chloride	8.3		"	10.0	ND	82.7	31-165		2.82	30	
Surrogate: 1,2-Dichloroethane-d4	*10.0*		*"*	*10.0*		*100*	*69-130*				
Surrogate: Toluene-d8	*9.37*		*"*	*10.0*		*93.7*	*81-117*				
Surrogate: p-Bromofluorobenzene	*10.3*		*"*	*10.0*		*103*	*79-122*				
Batch BI71307 - EPA 5030B											
Blank (BI71307-BLK1)								Prepared: 09/27/2017 Analyzed: 09/28/2017			
1,1,1-Trichloroethane	ND	0.50	ug/L								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BI71307 - EPA 5030B											
Blank (BI71307-BLK1)											
Prepared: 09/27/2017 Analyzed: 09/28/2017											
Bromoform	ND	0.50	ug/L								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	2.0	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
Styrene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: 1,2-Dichloroethane-d4	*9.92*		*"*	*10.0*		*99.2*	*69-130*				
Surrogate: Toluene-d8	*9.35*		*"*	*10.0*		*93.5*	*81-117*				
Surrogate: p-Bromofluorobenzene	*10.7*		*"*	*10.0*		*107*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BI71307 - EPA 5030B											
LCS (BI71307-BS1)								Prepared: 09/27/2017 Analyzed: 09/28/2017			
1,1,1-Trichloroethane	9.9		ug/L	10.0		99.1	78-136				
1,1,2,2-Tetrachloroethane	8.9		"	10.0		88.8	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.4		"	10.0		93.6	54-165				
1,1,2-Trichloroethane	9.0		"	10.0		90.5	82-123				
1,1-Dichloroethane	11		"	10.0		106	82-129				
1,1-Dichloroethylene	10		"	10.0		99.9	68-138				
1,2,3-Trichlorobenzene	9.4		"	10.0		93.6	76-136				
1,2,4-Trichlorobenzene	9.3		"	10.0		92.6	76-137				
1,2-Dibromo-3-chloropropane	8.1		"	10.0		81.4	45-147				
1,2-Dibromoethane	9.3		"	10.0		92.9	83-124				
1,2-Dichlorobenzene	8.7		"	10.0		86.7	79-123				
1,2-Dichloroethane	9.8		"	10.0		97.6	73-132				
1,2-Dichloropropane	9.2		"	10.0		92.1	78-126				
1,3-Dichlorobenzene	8.7		"	10.0		86.7	86-122				
1,4-Dichlorobenzene	8.7		"	10.0		87.3	85-124				
2-Butanone	8.0		"	10.0		80.2	49-152				
2-Hexanone	8.9		"	10.0		88.7	51-146				
4-Methyl-2-pentanone	9.2		"	10.0		91.9	57-145				
Acetone	3.7		"	10.0		36.8	14-150				
Benzene	10		"	10.0		104	85-126				
Bromochloromethane	10		"	10.0		103	77-128				
Bromodichloromethane	9.1		"	10.0		91.2	79-128				
Bromoform	8.4		"	10.0		84.5	78-133				
Bromomethane	4.4		"	10.0		43.5	43-168				
Carbon disulfide	11		"	10.0		110	68-146				
Carbon tetrachloride	9.4		"	10.0		93.7	77-141				
Chlorobenzene	9.0		"	10.0		89.6	88-120				
Chloroethane	10		"	10.0		101	65-136				
Chloroform	10		"	10.0		102	82-128				
Chloromethane	6.3		"	10.0		62.7	43-155				
cis-1,2-Dichloroethylene	9.7		"	10.0		97.4	83-129				
cis-1,3-Dichloropropylene	8.6		"	10.0		85.7	80-131				
Cyclohexane	10		"	10.0		102	63-149				
Dibromochloromethane	8.7		"	10.0		86.9	80-130				
Dichlorodifluoromethane	10		"	10.0		102	44-144				
Ethyl Benzene	9.6		"	10.0		96.4	80-131				
Isopropylbenzene	9.3		"	10.0		93.2	76-140				
Methyl acetate	10		"	10.0		102	51-139				
Methyl tert-butyl ether (MTBE)	9.6		"	10.0		95.8	76-135				
Methylcyclohexane	9.4		"	10.0		93.7	72-143				
Methylene chloride	9.7		"	10.0		97.4	55-137				
o-Xylene	8.9		"	10.0		88.8	78-130				
p- & m- Xylenes	20		"	20.0		98.8	77-133				
Styrene	9.6		"	10.0		96.1	67-132				
Tetrachloroethylene	9.8		"	10.0		98.5	82-131				
Toluene	9.3		"	10.0		92.9	80-127				
trans-1,2-Dichloroethylene	10		"	10.0		102	80-132				
trans-1,3-Dichloropropylene	8.5		"	10.0		84.7	78-131				
Trichloroethylene	9.1		"	10.0		90.6	82-128				
Trichlorofluoromethane	10		"	10.0		100	67-139				
Vinyl Chloride	8.6		"	10.0		85.7	58-145				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BI71307 - EPA 5030B											
LCS (BI71307-BS1)								Prepared: 09/27/2017 Analyzed: 09/28/2017			
Surrogate: 1,2-Dichloroethane-d4	*9.88*		*ug/L*	*10.0*		*98.8*	*69-130*				
Surrogate: Toluene-d8	*9.37*		*"*	*10.0*		*93.7*	*81-117*				
Surrogate: p-Bromofluorobenzene	*10.4*		*"*	*10.0*		*104*	*79-122*				
LCS Dup (BI71307-BSD1)								Prepared: 09/27/2017 Analyzed: 09/28/2017			
1,1,1-Trichloroethane	9.6		ug/L	10.0		95.9	78-136		3.28	30	
1,1,2,2-Tetrachloroethane	8.7		"	10.0		86.9	76-129		2.16	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.0		"	10.0		90.1	54-165		3.81	30	
1,1,2-Trichloroethane	8.8		"	10.0		88.5	82-123		2.23	30	
1,1-Dichloroethane	10		"	10.0		103	82-129		2.78	30	
1,1-Dichloroethylene	9.8		"	10.0		97.8	68-138		2.12	30	
1,2,3-Trichlorobenzene	9.0		"	10.0		90.1	76-136		3.81	30	
1,2,4-Trichlorobenzene	9.2		"	10.0		91.5	76-137		1.20	30	
1,2-Dibromo-3-chloropropane	8.0		"	10.0		80.2	45-147		1.49	30	
1,2-Dibromoethane	8.9		"	10.0		89.3	83-124		3.95	30	
1,2-Dichlorobenzene	8.5		"	10.0		84.9	79-123		2.10	30	
1,2-Dichloroethane	9.4		"	10.0		93.9	73-132		3.86	30	
1,2-Dichloropropane	9.0		"	10.0		90.2	78-126		2.08	30	
1,3-Dichlorobenzene	8.4		"	10.0		84.1	86-122	Low Bias	3.04	30	
1,4-Dichlorobenzene	8.6		"	10.0		85.8	85-124		1.73	30	
2-Butanone	8.3		"	10.0		82.6	49-152		2.95	30	
2-Hexanone	8.4		"	10.0		83.5	51-146		6.04	30	
4-Methyl-2-pentanone	8.8		"	10.0		87.8	57-145		4.56	30	
Acetone	3.0		"	10.0		29.7	14-150		21.4	30	
Benzene	10		"	10.0		101	85-126		2.25	30	
Bromochloromethane	10		"	10.0		101	77-128		2.05	30	
Bromodichloromethane	8.9		"	10.0		89.0	79-128		2.44	30	
Bromoform	8.2		"	10.0		82.3	78-133		2.64	30	
Bromomethane	4.4		"	10.0		44.0	43-168		1.14	30	
Carbon disulfide	11		"	10.0		106	68-146		3.69	30	
Carbon tetrachloride	9.2		"	10.0		91.8	77-141		2.05	30	
Chlorobenzene	8.8		"	10.0		87.5	88-120	Low Bias	2.37	30	
Chloroethane	9.7		"	10.0		97.3	65-136		3.43	30	
Chloroform	9.9		"	10.0		99.0	82-128		2.59	30	
Chloromethane	6.3		"	10.0		63.1	43-155		0.636	30	
cis-1,2-Dichloroethylene	9.4		"	10.0		94.0	83-129		3.55	30	
cis-1,3-Dichloropropylene	8.6		"	10.0		85.7	80-131		0.00	30	
Cyclohexane	10		"	10.0		99.9	63-149		2.28	30	
Dibromochloromethane	8.6		"	10.0		85.5	80-130		1.62	30	
Dichlorodifluoromethane	9.8		"	10.0		98.1	44-144		3.51	30	
Ethyl Benzene	9.4		"	10.0		94.0	80-131		2.52	30	
Isopropylbenzene	9.0		"	10.0		90.2	76-140		3.27	30	
Methyl acetate	10		"	10.0		100	51-139		1.88	30	
Methyl tert-butyl ether (MTBE)	9.5		"	10.0		94.9	76-135		0.944	30	
Methylcyclohexane	9.0		"	10.0		89.8	72-143		4.25	30	
Methylene chloride	9.7		"	10.0		96.9	55-137		0.515	30	
o-Xylene	8.7		"	10.0		86.8	78-130		2.28	30	
p- & m- Xylenes	19		"	20.0		96.0	77-133		2.93	30	
Styrene	9.4		"	10.0		94.1	67-132		2.10	30	
Tetrachloroethylene	9.5		"	10.0		95.4	82-131		3.20	30	
Toluene	9.1		"	10.0		90.8	80-127		2.29	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BI71307 - EPA 5030B											
LCS Dup (BI71307-BSD1)									Prepared: 09/27/2017 Analyzed: 09/28/2017		
trans-1,2-Dichloroethylene	9.9		ug/L	10.0		99.4	80-132		2.88	30	
trans-1,3-Dichloropropylene	8.3		"	10.0		82.7	78-131		2.39	30	
Trichloroethylene	8.7		"	10.0		87.2	82-128		3.82	30	
Trichlorofluoromethane	9.7		"	10.0		97.3	67-139		2.74	30	
Vinyl Chloride	8.4		"	10.0		84.5	58-145		1.41	30	
Surrogate: 1,2-Dichloroethane-d4	*9.95*		*"*	*10.0*		*99.5*	*69-130*				
Surrogate: Toluene-d8	*9.48*		*"*	*10.0*		*94.8*	*81-117*				
Surrogate: p-Bromofluorobenzene	*10.4*		*"*	*10.0*		*104*	*79-122*				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
17I0914-01	KWF-MW2S	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
17I0914-02	KWF-MW11R	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
17I0914-03	KWF-MW1S	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
17I0914-04	KWF-MW4R	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
17I0914-05	KWF-PW	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
17I0914-06	KWF-FD	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
17I0914-07	KWF-EB	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
17I0914-08	KWF-TB	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Laboratory Chain-of-Custody Record

York Project (SDG) No.: 17I0914

Samples Received: 09/22/2017 17:30 **By:** John Gale **Logged In:** 09/22/2017 18:07 **By:** John Gale

Sample Conditions:

- [X] Custody Seals
- [X] Containers Intact
- [X] COC/Labels Agree
- [X] Preservation Confirmed
- [X] Cooler Temperature Confirmed
- [X] COC Complete
- [X] Chain of Custody Form Received
- [X] Appropriate Sample Volumes Received
- [X] Appropriate Sample Containers Submitted
- [X] Samples Submitted within Holding Times
- [ ] Corrective Action Form Required

Preparation Chain-of-Custody

Sample ID	Reason Prep	Prep Start Date	Prep End Date	Prep Analyst
17I0914-01	EPA 5030B	09/27/2017 10:00	09/27/2017 10:00	Arlene Schork
17I0914-02	EPA 5030B	09/27/2017 10:00	09/27/2017 10:00	Arlene Schork
17I0914-03	EPA 5030B	09/27/2017 10:00	09/27/2017 10:00	Arlene Schork
17I0914-04	EPA 5030B	09/27/2017 10:00	09/27/2017 10:00	Arlene Schork
17I0914-05	EPA 5030B	09/27/2017 17:00	09/27/2017 17:00	Arlene Schork
17I0914-06	EPA 5030B	09/27/2017 17:00	09/27/2017 17:00	Arlene Schork
17I0914-07	EPA 5030B	09/27/2017 17:00	09/27/2017 17:00	Arlene Schork
17I0914-08	EPA 5030B	09/27/2017 17:00	09/27/2017 17:00	Arlene Schork

Analysis Chain-of-Custody

Sample ID	Reason Analysis	Analysis Start Date	Analysis End Date	Analyst
17I0914-01	Volatile Organics, 8260 - TCL/SOM (l	09/27/2017 10:00	09/27/2017 21:21	Arlene Schork
17I0914-02	Volatile Organics, 8260 - TCL/SOM (l	09/27/2017 10:00	09/27/2017 21:47	Arlene Schork
17I0914-03	Volatile Organics, 8260 - TCL/SOM (l	09/27/2017 10:00	09/27/2017 22:14	Arlene Schork
17I0914-04	Volatile Organics, 8260 - TCL/SOM (l	09/27/2017 10:00	09/27/2017 22:40	Arlene Schork
17I0914-05	Volatile Organics, 8260 - TCL/SOM (l	09/27/2017 17:00	09/28/2017 5:17	Arlene Schork
17I0914-06	Volatile Organics, 8260 - TCL/SOM (l	09/27/2017 17:00	09/28/2017 5:43	Arlene Schork
17I0914-07	Volatile Organics, 8260 - TCL/SOM (l	09/27/2017 17:00	09/28/2017 6:10	Arlene Schork
17I0914-08	Volatile Organics, 8260 - TCL/SOM (l	09/27/2017 17:00	09/28/2017 4:24	Arlene Schork

YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

York Project No. 17I0914

YOUR Information

Company: The Chazen Company
Address: 21 Fox St
Poughkeepsie NY 12601
Phone No. 845-454-3890
Contact Person: Will Olsen
E-Mail Address: wolsen@chazencompanies.com

Report To:

Company: Chazen
Address:
Phone No.
Attention: Will Olsen
E-Mail Address:

Invoice To:

Company: Chazen
Address:
Phone No.
Attention: Accts. Payable
E-Mail Address:

YOUR Project ID

41433.00 - Katonah
Task 0500

Purchase Order No.

P.O. # 925

Samples from: CT ___ NY X NJ ___

Turn-Around Time

- RUSH - Same Day ☐
- RUSH - Next Day ☐
- RUSH - Two Day ☐
- RUSH - Three Day ☐
- RUSH - Four Day ☐
- Standard(5-7 Days) ☒

Report Type

- Summary Report ___
- Summary w/ QA Summary ___
- CT RCP Package ___
- CTRCP DQA/DUE Pkg ___
- NY ASP A Package ___
- NY ASP B Package X
- NJDEP Red. Deliv. ___

Electronic Data Deliverables (EDD)

- Simple Excel X
- NYSDEC EQuIS X
- EQuIS (std) ___
- EZ-EDD (EQuIS) ___
- NJDEP SRP HazSite EDD ___
- GIS/KEY (std) ___
- Other ___

York Regulatory Comparison
Excel Spreadsheet X
Compare to the following Regs. (please fill in):

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)

David Froeddert
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded No Dioxins/Furans	BTU/lb.
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Expanded Full List	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
KWF-MW2S	9-22-17 1055	GW	8260 - TCL/SD M (Low Level)	3x) 40ml VOA HCl
KWF-MW11R	1200	GW		3x) ↓
KWF-MW11R-MS/MSD	1200	GW		6x) 40ml VOA HCl
KWF-MW1S	1255	GW		3x
KWF-MW4R	1420	GW		3x
KWF-PW	1500	GW		3x
KWF-FD	XX:XX	GW		3x
KWF-EB	1445	D.I.		3x
KWF-TB	—	D.I.		2x) 40ml VOA

Comments

Preservation Check those Applicable
4°C ___ Frozen ___ HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other ___

Special Instructions
Field Filtered ☐
Lab to Filter ☐

	Date/Time		Date/Time
Samples Relinquished By	9-22-17 15:15	Samples Received By	9-22-17 15:15
Samples Relinquished By		Samples Received in LAB by	9/22/17 1730

Temperature on Receipt 5.3 °C

York Analytical Laboratories, Inc.
SDG: 17I0914
CLASS: VOA
METHOD: EPA 8260C

DATA PACKAGE COVER PAGE

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 17I0914

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00-Katonah Task 0500

Client Sample Id:	Lab Sample Id:
KWF-MW2S	17I0914-01
KWF-MW11R	17I0914-02
KWF-MW1S	17I0914-03
KWF-MW4R	17I0914-04
KWF-PW	17I0914-05
KWF-FD	17I0914-06
KWF-EB	17I0914-07
KWF-TB	17I0914-08

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature:  Name: Benjamin Gulizia

Date: 11/6/2017 Title: Laboratory Director

FORM II SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	17I0914
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41433.00-Katonah Task 0500
Sequence:	Y7I2835	Instrument:	QVOA6
Matrix:	Water	Calibration:	YI70003

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (Y7I2835-CCV1)			Lab File ID: QV601430.D		Analyzed: 09/27/17 13:19			
1,2-Dichloroethane-d4	10.0	96.8	80 - 120	5.842				
Toluene-d8	10.0	94.6	80 - 120	7.692				
p-Bromofluorobenzene	10.0	105	80 - 120	10.466				
LCS (BI71306-BS1)			Lab File ID: QV601431.D		Analyzed: 09/27/17 13:46			
1,2-Dichloroethane-d4	10.0	97.5	69 - 130	5.842				
Toluene-d8	10.0	94.5	81 - 117	7.692				
p-Bromofluorobenzene	10.0	107	79 - 122	10.466				
LCS Dup (BI71306-BSD1)			Lab File ID: QV601432.D		Analyzed: 09/27/17 14:13			
1,2-Dichloroethane-d4	10.0	97.1	69 - 130	5.845				
Toluene-d8	10.0	94.5	81 - 117	7.689				
p-Bromofluorobenzene	10.0	106	79 - 122	10.466				
Blank (BI71306-BLK1)			Lab File ID: QV601434.D		Analyzed: 09/27/17 15:06			
1,2-Dichloroethane-d4	10.0	97.2	69 - 130	5.845				
Toluene-d8	10.0	93.9	81 - 117	7.692				
p-Bromofluorobenzene	10.0	110	79 - 122	10.466				
KWF-MW2S (17I0914-01)			Lab File ID: QV601446.D		Analyzed: 09/27/17 21:21			
1,2-Dichloroethane-d4	10.0	104	69 - 130	5.842				
Toluene-d8	10.0	92.8	81 - 117	7.689				
p-Bromofluorobenzene	10.0	107	79 - 122	10.466				
KWF-MW11R (17I0914-02)			Lab File ID: QV601447.D		Analyzed: 09/27/17 21:47			
1,2-Dichloroethane-d4	10.0	99.9	69 - 130	5.839				
Toluene-d8	10.0	93.6	81 - 117	7.69				
p-Bromofluorobenzene	10.0	110	79 - 122	10.463				
KWF-MW1S (17I0914-03)			Lab File ID: QV601448.D		Analyzed: 09/27/17 22:14			
1,2-Dichloroethane-d4	10.0	103	69 - 130	5.839				
Toluene-d8	10.0	93.7	81 - 117	7.689				
p-Bromofluorobenzene	10.0	106	79 - 122	10.466				
KWF-MW4R (17I0914-04)			Lab File ID: QV601449.D		Analyzed: 09/27/17 22:40			
1,2-Dichloroethane-d4	10.0	100	69 - 130	5.842				
Toluene-d8	10.0	93.2	81 - 117	7.689				
p-Bromofluorobenzene	10.0	106	79 - 122	10.463				

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	17I0914
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41433.00-Katonah Task 0500
Sequence:	Y7I2835	Instrument:	QVOA6
Matrix:	Water	Calibration:	YI70003

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Matrix Spike (BI71306-MS1)			Lab File ID: QV601450.D		Analyzed: 09/27/17 23:06			
1,2-Dichloroethane-d4	10.0	101	69 - 130	5.842				
Toluene-d8	10.0	93.9	81 - 117	7.689				
p-Bromofluorobenzene	10.0	104	79 - 122	10.466				
Matrix Spike Dup (BI71306-MSD1)			Lab File ID: QV601451.D		Analyzed: 09/27/17 23:33			
1,2-Dichloroethane-d4	10.0	100	69 - 130	5.842				
Toluene-d8	10.0	93.7	81 - 117	7.69				
p-Bromofluorobenzene	10.0	103	79 - 122	10.466				

FORM II SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	17I0914
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41433.00-Katonah Task 0500
Sequence:	Y7I2927	Instrument:	QVOA6
Matrix:	Water	Calibration:	YI70003

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (Y7I2927-CCV1)			Lab File ID: QV601457.D		Analyzed: 09/28/17 02:12			
1,2-Dichloroethane-d4	10.0	98.3	80 - 120	5.839				
Toluene-d8	10.0	94.3	80 - 120	7.69				
p-Bromofluorobenzene	10.0	104	80 - 120	10.464				
LCS (BI71307-BS1)			Lab File ID: QV601458.D		Analyzed: 09/28/17 02:38			
1,2-Dichloroethane-d4	10.0	98.8	69 - 130	5.839				
Toluene-d8	10.0	93.7	81 - 117	7.689				
p-Bromofluorobenzene	10.0	104	79 - 122	10.463				
LCS Dup (BI71307-BSD1)			Lab File ID: QV601459.D		Analyzed: 09/28/17 03:04			
1,2-Dichloroethane-d4	10.0	99.5	69 - 130	5.842				
Toluene-d8	10.0	94.8	81 - 117	7.69				
p-Bromofluorobenzene	10.0	104	79 - 122	10.463				
Blank (BI71307-BLK1)			Lab File ID: QV601461.D		Analyzed: 09/28/17 03:57			
1,2-Dichloroethane-d4	10.0	99.2	69 - 130	5.839				
Toluene-d8	10.0	93.5	81 - 117	7.69				
p-Bromofluorobenzene	10.0	107	79 - 122	10.466				
KWF-TB (17I0914-08)			Lab File ID: QV601462.D		Analyzed: 09/28/17 04:24			
1,2-Dichloroethane-d4	10.0	98.4	69 - 130	5.836				
Toluene-d8	10.0	93.8	81 - 117	7.689				
p-Bromofluorobenzene	10.0	108	79 - 122	10.466				
KWF-PW (17I0914-05)			Lab File ID: QV601464.D		Analyzed: 09/28/17 05:17			
1,2-Dichloroethane-d4	10.0	99.0	69 - 130	5.839				
Toluene-d8	10.0	93.7	81 - 117	7.69				
p-Bromofluorobenzene	10.0	109	79 - 122	10.466				
KWF-FD (17I0914-06)			Lab File ID: QV601465.D		Analyzed: 09/28/17 05:43			
1,2-Dichloroethane-d4	10.0	101	69 - 130	5.839				
Toluene-d8	10.0	93.5	81 - 117	7.689				
p-Bromofluorobenzene	10.0	106	79 - 122	10.466				
KWF-EB (17I0914-07)			Lab File ID: QV601466.D		Analyzed: 09/28/17 06:10			
1,2-Dichloroethane-d4	10.0	99.0	69 - 130	5.837				
Toluene-d8	10.0	93.5	81 - 117	7.689				
p-Bromofluorobenzene	10.0	104	79 - 122	10.463				

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260C

KWF-MW1S

Laboratory: York Analytical Laboratories, Inc.
SDG: 17I0914
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41433.00-Katonah Task 0500
Matrix: Water
Batch: BI71306
Laboratory ID: BI71306-MS1
Preparation: EPA 5030B
Initial/Final: 25 mL / 25 mL
Source Sample Name: KWF-MW1S

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
1,1,1-Trichloroethane	10.0	ND	9.6	96.2	70 - 146
1,1,2,2-Tetrachloroethane	10.0	ND	8.8	87.5	74 - 121
1,1,2-Trichloro-1,2,2-trifluoroethane (	10.0	ND	8.8	88.5	21 - 217
1,1,2-Trichloroethane	10.0	ND	8.7	86.7	59 - 146
1,1-Dichloroethane	10.0	ND	10	102	54 - 146
1,1-Dichloroethylene	10.0	ND	9.6	96.2	44 - 165
1,2,3-Trichlorobenzene	10.0	ND	8.4	83.5	40 - 161
1,2,4-Trichlorobenzene	10.0	ND	8.5	84.6	41 - 161
1,2-Dibromo-3-chloropropane	10.0	ND	8.0	80.4	31 - 151
1,2-Dibromoethane	10.0	ND	8.9	89.2	75 - 125
1,2-Dichlorobenzene	10.0	ND	8.2	82.4	63 - 122
1,2-Dichloroethane	10.0	ND	9.1	91.4	68 - 131
1,2-Dichloropropane	10.0	ND	8.8	87.9	77 - 121
1,3-Dichlorobenzene	10.0	ND	8.1	81.2	74 - 119
1,4-Dichlorobenzene	10.0	ND	8.3	82.6	70 - 124
2-Butanone	10.0	ND	7.2	72.3	10 - 193
2-Hexanone	10.0	ND	8.6	85.9	53 - 133
4-Methyl-2-pentanone	10.0	ND	9.0	90.0	38 - 150
Acetone	10.0	ND	1.5	14.6	13 - 149
Benzene	10.0	ND	9.9	98.9	38 - 155
Bromochloromethane	10.0	ND	9.6	95.8	75 - 121
Bromodichloromethane	10.0	ND	8.7	87.0	70 - 129
Bromoform	10.0	ND	8.0	80.0	66 - 136
Bromomethane	10.0	ND	3.2	32.3	30 - 158
Carbon disulfide	10.0	ND	11	109	10 - 138
Carbon tetrachloride	10.0	ND	8.9	89.1	71 - 146
Chlorobenzene	10.0	ND	8.5	85.0	81 - 117
Chloroethane	10.0	ND	10	101	51 - 145
Chloroform	10.0	ND	9.9	98.6	80 - 124
Chloromethane	10.0	ND	4.8	47.8	16 - 163
cis-1,2-Dichloroethylene	10.0	ND	9.6	95.9	76 - 125
cis-1,3-Dichloropropylene	10.0	ND	8.4	84.0	58 - 131

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260C

KWF-MW1S

Laboratory: York Analytical Laboratories, Inc.
SDG: 17I0914
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41433.00-Katonah Task 0500
Matrix: Water
Batch: BI71306
Laboratory ID: BI71306-MS1
Preparation: EPA 5030B
Initial/Final: 25 mL / 25 mL
Source Sample Name: KWF-MW1S

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Cyclohexane	10.0	ND	9.8	98.5	70 - 130
Dibromochloromethane	10.0	ND	8.3	83.1	71 - 129
Dichlorodifluoromethane	10.0	ND	9.0	90.2	30 - 147
Ethyl Benzene	10.0	ND	9.1	91.4	72 - 128
Isopropylbenzene	10.0	ND	8.8	88.3	66 - 139
Methyl acetate	10.0	ND	9.3	93.1	10 - 200
Methyl tert-butyl ether (MTBE)	10.0	ND	9.4	94.4	75 - 128
Methylcyclohexane	10.0	ND	8.8	88.2	70 - 130
Methylene chloride	10.0	ND	9.6	95.7	57 - 128
o-Xylene	10.0	ND	8.4	84.4	69 - 126
p- & m- Xylenes	20.0	ND	19	93.4	67 - 130
Styrene	10.0	ND	9.0	90.0	69 - 125
Tetrachloroethylene	10.0	0.50	8.7	81.9	64 - 139
Toluene	10.0	ND	8.8	88.2	76 - 123
trans-1,2-Dichloroethylene	10.0	ND	9.6	96.4	79 - 131
trans-1,3-Dichloropropylene	10.0	ND	8.2	81.7	55 - 130
Trichloroethylene	10.0	0.46	9.0	85.2	53 - 145
Trichlorofluoromethane	10.0	ND	9.4	94.0	61 - 142
Vinyl Chloride	10.0	ND	8.0	80.4	31 - 165

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260C

KWF-MW1S

Laboratory: York Analytical Laboratories, Inc.
SDG: 17I0914
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41433.00-Katonah Task 0500
Matrix: Water
Batch: BI71306
Laboratory ID: BI71306-MSD1
Preparation: EPA 5030B
Initial/Final: 25 mL / 25 mL
Source Sample Name: KWF-MW1S

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1-Trichloroethane	10.0	9.6	96.4	0.208	30	70 - 146
1,1,2,2-Tetrachloroethane	10.0	8.5	85.1	2.78	30	74 - 121
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	9.0	89.9	1.57	30	21 - 217
1,1,2-Trichloroethane	10.0	8.7	86.6	0.115	30	59 - 146
1,1-Dichloroethane	10.0	10	101	0.494	30	54 - 146
1,1-Dichloroethylene	10.0	9.8	97.9	1.75	30	44 - 165
1,2,3-Trichlorobenzene	10.0	8.4	84.4	1.07	30	40 - 161
1,2,4-Trichlorobenzene	10.0	8.2	82.2	2.88	30	41 - 161
1,2-Dibromo-3-chloropropane	10.0	4.6	45.7	55.0 *	30	31 - 151
1,2-Dibromoethane	10.0	8.7	86.9	2.61	30	75 - 125
1,2-Dichlorobenzene	10.0	8.2	82.0	0.487	30	63 - 122
1,2-Dichloroethane	10.0	9.0	89.5	2.10	30	68 - 131
1,2-Dichloropropane	10.0	9.0	89.8	2.14	30	77 - 121
1,3-Dichlorobenzene	10.0	8.0	80.4	0.990	30	74 - 119
1,4-Dichlorobenzene	10.0	8.2	82.1	0.607	30	70 - 124
2-Butanone	10.0	8.2	82.3	12.9	30	10 - 193
2-Hexanone	10.0	8.4	83.7	2.59	30	53 - 133
4-Methyl-2-pentanone	10.0	8.9	89.4	0.669	30	38 - 150
Acetone	10.0	1.1	11.3 *	25.5	30	13 - 149
Benzene	10.0	9.9	99.2	0.303	30	38 - 155
Bromochloromethane	10.0	9.8	97.9	2.17	30	75 - 121
Bromodichloromethane	10.0	8.8	87.8	0.915	30	70 - 129
Bromoform	10.0	8.1	81.2	1.49	30	66 - 136
Bromomethane	10.0	3.5	35.3	8.88	30	30 - 158
Carbon disulfide	10.0	11	109	0.458	30	10 - 138
Carbon tetrachloride	10.0	9.1	90.9	2.00	30	71 - 146
Chlorobenzene	10.0	8.6	85.8	0.937	30	81 - 117
Chloroethane	10.0	10	103	1.76	30	51 - 145
Chloroform	10.0	9.8	97.6	1.02	30	80 - 124
Chloromethane	10.0	5.4	54.4	12.9	30	16 - 163
cis-1,2-Dichloroethylene	10.0	9.5	95.4	0.523	30	76 - 125
cis-1,3-Dichloropropylene	10.0	8.7	86.6	3.05	30	58 - 131
Cyclohexane	10.0	9.9	99.4	0.910	30	70 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260C

KWF-MW1S

Laboratory: York Analytical Laboratories, Inc.
SDG: 17I0914
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41433.00-Katonah Task 0500
Matrix: Water
Batch: BI71306
Laboratory ID: BI71306-MSD1
Preparation: EPA 5030B
Initial/Final: 25 mL / 25 mL
Source Sample Name: KWF-MW1S

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dibromochloromethane	10.0	8.4	84.2	1.31	30	71 - 129
Dichlorodifluoromethane	10.0	9.5	94.9	5.08	30	30 - 147
Ethyl Benzene	10.0	9.3	92.9	1.63	30	72 - 128
Isopropylbenzene	10.0	8.9	88.7	0.452	30	66 - 139
Methyl acetate	10.0	8.9	88.9	4.62	30	10 - 200
Methyl tert-butyl ether (MTBE)	10.0	9.4	93.8	0.638	30	75 - 128
Methylcyclohexane	10.0	8.9	88.8	0.678	30	70 - 130
Methylene chloride	10.0	9.4	94.1	1.69	30	57 - 128
o-Xylene	10.0	8.5	85.0	0.708	30	69 - 126
p- & m- Xylenes	20.0	19	94.5	1.17	30	67 - 130
Styrene	10.0	9.2	91.7	1.87	30	69 - 125
Tetrachloroethylene	10.0	8.9	84.3	2.72	30	64 - 139
Toluene	10.0	9.0	89.7	1.69	30	76 - 123
trans-1,2-Dichloroethylene	10.0	9.7	96.6	0.207	30	79 - 131
trans-1,3-Dichloropropylene	10.0	8.3	82.6	1.10	30	55 - 130
Trichloroethylene	10.0	9.1	86.4	1.33	30	53 - 145
Trichlorofluoromethane	10.0	9.7	96.8	2.94	30	61 - 142
Vinyl Chloride	10.0	8.3	82.7	2.82	30	31 - 165

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III **LCS / LCS DUPLICATE RECOVERY**

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	17I0914
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41433.00-Katonah Task 0500
Matrix:	Water		
Batch:	BI71306	Laboratory ID:	BI71306-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
1,1,1-Trichloroethane	10.0	11	105	78 - 136
1,1,2,2-Tetrachloroethane	10.0	10	103	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	10	103	54 - 165
1,1,2-Trichloroethane	10.0	9.9	99.3	82 - 123
1,1-Dichloroethane	10.0	11	113	82 - 129
1,1-Dichloroethylene	10.0	11	108	68 - 138
1,2,3-Trichlorobenzene	10.0	11	108	76 - 136
1,2,4-Trichlorobenzene	10.0	11	105	76 - 137
1,2-Dibromo-3-chloropropane	10.0	9.8	97.5	45 - 147
1,2-Dibromoethane	10.0	9.9	98.9	83 - 124
1,2-Dichlorobenzene	10.0	9.8	97.5	79 - 123
1,2-Dichloroethane	10.0	10	102	73 - 132
1,2-Dichloropropane	10.0	9.7	97.3	78 - 126
1,3-Dichlorobenzene	10.0	9.7	96.7	86 - 122
1,4-Dichlorobenzene	10.0	9.9	99.0	85 - 124
2-Butanone	10.0	9.5	95.1	49 - 152
2-Hexanone	10.0	11	108	51 - 146
4-Methyl-2-pentanone	10.0	9.9	99.1	57 - 145
Acetone	10.0	8.8	87.9	14 - 150
Benzene	10.0	11	109	85 - 126
Bromochloromethane	10.0	11	110	77 - 128
Bromodichloromethane	10.0	9.6	96.5	79 - 128
Bromoform	10.0	9.3	93.1	78 - 133
Bromomethane	10.0	3.7	36.8 *	43 - 168
Carbon disulfide	10.0	13	131	68 - 146
Carbon tetrachloride	10.0	9.0	90.3	77 - 141
Chlorobenzene	10.0	9.5	94.8	88 - 120
Chloroethane	10.0	11	111	65 - 136
Chloroform	10.0	11	107	82 - 128
Chloromethane	10.0	5.8	58.0	43 - 155

FORM III **LCS / LCS DUPLICATE RECOVERY**

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	17I0914
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41433.00-Katonah Task 0500
Matrix:	Water		
Batch:	BI71306	Laboratory ID:	BI71306-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
cis-1,2-Dichloroethylene	10.0	11	106	83 - 129
cis-1,3-Dichloropropylene	10.0	9.5	95.1	80 - 131
Cyclohexane	10.0	11	109	63 - 149
Dibromochloromethane	10.0	9.5	94.8	80 - 130
Dichlorodifluoromethane	10.0	11	112	44 - 144
Ethyl Benzene	10.0	10	104	80 - 131
Isopropylbenzene	10.0	11	105	76 - 140
Methyl acetate	10.0	11	108	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	11	106	76 - 135
Methylcyclohexane	10.0	10	100	72 - 143
Methylene chloride	10.0	10	102	55 - 137
o-Xylene	10.0	9.5	95.1	78 - 130
p- & m- Xylenes	20.0	21	105	77 - 133
Styrene	10.0	10	103	67 - 132
Tetrachloroethylene	10.0	10	101	82 - 131
Toluene	10.0	9.9	98.9	80 - 127
trans-1,2-Dichloroethylene	10.0	11	108	80 - 132
trans-1,3-Dichloropropylene	10.0	9.5	94.9	78 - 131
Trichloroethylene	10.0	9.8	97.8	82 - 128
Trichlorofluoromethane	10.0	9.8	97.7	67 - 139
Vinyl Chloride	10.0	10	102	58 - 145

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III **LCS / LCS DUPLICATE RECOVERY**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 17I0914

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00-Katonah Task 0500

Matrix: Water

Batch: BI71306 Laboratory ID: BI71306-BSD1

Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1-Trichloroethane	10.0	11	105	0.285	30	78 - 136
1,1,2,2-Tetrachloroethane	10.0	11	106	2.95	30	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (	10.0	10	102	0.681	30	54 - 165
1,1,2-Trichloroethane	10.0	10	101	1.90	30	82 - 123
1,1-Dichloroethane	10.0	11	112	0.623	30	82 - 129
1,1-Dichloroethylene	10.0	11	106	1.12	30	68 - 138
1,2,3-Trichlorobenzene	10.0	11	114	5.41	30	76 - 136
1,2,4-Trichlorobenzene	10.0	11	109	3.37	30	76 - 137
1,2-Dibromo-3-chloropropane	10.0	10	100	2.83	30	45 - 147
1,2-Dibromoethane	10.0	10	102	3.38	30	83 - 124
1,2-Dichlorobenzene	10.0	9.9	98.9	1.43	30	79 - 123
1,2-Dichloroethane	10.0	10	103	1.08	30	73 - 132
1,2-Dichloropropane	10.0	9.8	98.5	1.23	30	78 - 126
1,3-Dichlorobenzene	10.0	9.5	95.4	1.35	30	86 - 122
1,4-Dichlorobenzene	10.0	9.8	97.8	1.22	30	85 - 124
2-Butanone	10.0	11	110	15.0	30	49 - 152
2-Hexanone	10.0	11	110	1.47	30	51 - 146
4-Methyl-2-pentanone	10.0	11	105	5.97	30	57 - 145
Acetone	10.0	8.6	85.7	2.53	30	14 - 150
Benzene	10.0	11	109	0.276	30	85 - 126
Bromochloromethane	10.0	11	110	0.544	30	77 - 128
Bromodichloromethane	10.0	9.8	98.5	2.05	30	79 - 128
Bromoform	10.0	9.5	95.2	2.23	30	78 - 133
Bromomethane	10.0	3.9	38.9 *	5.55	30	43 - 168
Carbon disulfide	10.0	13	132	0.0761	30	68 - 146
Carbon tetrachloride	10.0	9.3	92.8	2.73	30	77 - 141
Chlorobenzene	10.0	9.5	95.1	0.316	30	88 - 120
Chloroethane	10.0	11	112	0.988	30	65 - 136
Chloroform	10.0	11	107	0.561	30	82 - 128
Chloromethane	10.0	5.5	54.9	5.49	30	43 - 155

FORM III **LCS / LCS DUPLICATE RECOVERY**

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	17I0914
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41433.00-Katonah Task 0500
Matrix:	Water		
Batch:	BI71306	Laboratory ID:	BI71306-BSD1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
cis-1,2-Dichloroethylene	10.0	11	105	1.14	30	83 - 129
cis-1,3-Dichloropropylene	10.0	9.8	98.3	3.31	30	80 - 131
Cyclohexane	10.0	11	110	0.548	30	63 - 149
Dibromochloromethane	10.0	9.6	95.5	0.736	30	80 - 130
Dichlorodifluoromethane	10.0	11	110	1.62	30	44 - 144
Ethyl Benzene	10.0	10	103	0.872	30	80 - 131
Isopropylbenzene	10.0	10	104	1.15	30	76 - 140
Methyl acetate	10.0	11	111	3.47	30	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	11	108	2.34	30	76 - 135
Methylcyclohexane	10.0	10	100	0.00	30	72 - 143
Methylene chloride	10.0	11	105	3.38	30	55 - 137
o-Xylene	10.0	9.5	95.0	0.105	30	78 - 130
p- & m- Xylenes	20.0	21	106	0.711	30	77 - 133
Styrene	10.0	10	104	0.675	30	67 - 132
Tetrachloroethylene	10.0	10	102	1.08	30	82 - 131
Toluene	10.0	10	99.5	0.605	30	80 - 127
trans-1,2-Dichloroethylene	10.0	11	108	0.00	30	80 - 132
trans-1,3-Dichloropropylene	10.0	9.6	96.1	1.26	30	78 - 131
Trichloroethylene	10.0	9.6	96.1	1.75	30	82 - 128
Trichlorofluoromethane	10.0	9.8	98.3	0.612	30	67 - 139
Vinyl Chloride	10.0	9.9	99.0	2.99	30	58 - 145

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III **LCS / LCS DUPLICATE RECOVERY**

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	17I0914
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41433.00-Katonah Task 0500
Matrix:	Water		
Batch:	BI71307	Laboratory ID:	BI71307-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
1,1,1-Trichloroethane	10.0	9.9	99.1	78 - 136
1,1,2,2-Tetrachloroethane	10.0	8.9	88.8	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	9.4	93.6	54 - 165
1,1,2-Trichloroethane	10.0	9.0	90.5	82 - 123
1,1-Dichloroethane	10.0	11	106	82 - 129
1,1-Dichloroethylene	10.0	10	99.9	68 - 138
1,2,3-Trichlorobenzene	10.0	9.4	93.6	76 - 136
1,2,4-Trichlorobenzene	10.0	9.3	92.6	76 - 137
1,2-Dibromo-3-chloropropane	10.0	8.1	81.4	45 - 147
1,2-Dibromoethane	10.0	9.3	92.9	83 - 124
1,2-Dichlorobenzene	10.0	8.7	86.7	79 - 123
1,2-Dichloroethane	10.0	9.8	97.6	73 - 132
1,2-Dichloropropane	10.0	9.2	92.1	78 - 126
1,3-Dichlorobenzene	10.0	8.7	86.7	86 - 122
1,4-Dichlorobenzene	10.0	8.7	87.3	85 - 124
2-Butanone	10.0	8.0	80.2	49 - 152
2-Hexanone	10.0	8.9	88.7	51 - 146
4-Methyl-2-pentanone	10.0	9.2	91.9	57 - 145
Acetone	10.0	3.7	36.8	14 - 150
Benzene	10.0	10	104	85 - 126
Bromochloromethane	10.0	10	103	77 - 128
Bromodichloromethane	10.0	9.1	91.2	79 - 128
Bromoform	10.0	8.4	84.5	78 - 133
Bromomethane	10.0	4.4	43.5	43 - 168
Carbon disulfide	10.0	11	110	68 - 146
Carbon tetrachloride	10.0	9.4	93.7	77 - 141
Chlorobenzene	10.0	9.0	89.6	88 - 120
Chloroethane	10.0	10	101	65 - 136
Chloroform	10.0	10	102	82 - 128
Chloromethane	10.0	6.3	62.7	43 - 155

FORM III **LCS / LCS DUPLICATE RECOVERY**

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	17I0914
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41433.00-Katonah Task 0500
Matrix:	Water		
Batch:	BI71307	Laboratory ID:	BI71307-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
cis-1,2-Dichloroethylene	10.0	9.7	97.4	83 - 129
cis-1,3-Dichloropropylene	10.0	8.6	85.7	80 - 131
Cyclohexane	10.0	10	102	63 - 149
Dibromochloromethane	10.0	8.7	86.9	80 - 130
Dichlorodifluoromethane	10.0	10	102	44 - 144
Ethyl Benzene	10.0	9.6	96.4	80 - 131
Isopropylbenzene	10.0	9.3	93.2	76 - 140
Methyl acetate	10.0	10	102	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	9.6	95.8	76 - 135
Methylcyclohexane	10.0	9.4	93.7	72 - 143
Methylene chloride	10.0	9.7	97.4	55 - 137
o-Xylene	10.0	8.9	88.8	78 - 130
p- & m- Xylenes	20.0	20	98.8	77 - 133
Styrene	10.0	9.6	96.1	67 - 132
Tetrachloroethylene	10.0	9.8	98.5	82 - 131
Toluene	10.0	9.3	92.9	80 - 127
trans-1,2-Dichloroethylene	10.0	10	102	80 - 132
trans-1,3-Dichloropropylene	10.0	8.5	84.7	78 - 131
Trichloroethylene	10.0	9.1	90.6	82 - 128
Trichlorofluoromethane	10.0	10	100	67 - 139
Vinyl Chloride	10.0	8.6	85.7	58 - 145

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III **LCS / LCS DUPLICATE RECOVERY**

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	17I0914
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41433.00-Katonah Task 0500
Matrix:	Water		
Batch:	BI71307	Laboratory ID:	BI71307-BSD1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1-Trichloroethane	10.0	9.6	95.9		3.28	30	78 - 136
1,1,2,2-Tetrachloroethane	10.0	8.7	86.9		2.16	30	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (	10.0	9.0	90.1		3.81	30	54 - 165
1,1,2-Trichloroethane	10.0	8.8	88.5		2.23	30	82 - 123
1,1-Dichloroethane	10.0	10	103		2.78	30	82 - 129
1,1-Dichloroethylene	10.0	9.8	97.8		2.12	30	68 - 138
1,2,3-Trichlorobenzene	10.0	9.0	90.1		3.81	30	76 - 136
1,2,4-Trichlorobenzene	10.0	9.2	91.5		1.20	30	76 - 137
1,2-Dibromo-3-chloropropane	10.0	8.0	80.2		1.49	30	45 - 147
1,2-Dibromoethane	10.0	8.9	89.3		3.95	30	83 - 124
1,2-Dichlorobenzene	10.0	8.5	84.9		2.10	30	79 - 123
1,2-Dichloroethane	10.0	9.4	93.9		3.86	30	73 - 132
1,2-Dichloropropane	10.0	9.0	90.2		2.08	30	78 - 126
1,3-Dichlorobenzene	10.0	8.4	84.1	*	3.04	30	86 - 122
1,4-Dichlorobenzene	10.0	8.6	85.8		1.73	30	85 - 124
2-Butanone	10.0	8.3	82.6		2.95	30	49 - 152
2-Hexanone	10.0	8.4	83.5		6.04	30	51 - 146
4-Methyl-2-pentanone	10.0	8.8	87.8		4.56	30	57 - 145
Acetone	10.0	3.0	29.7		21.4	30	14 - 150
Benzene	10.0	10	101		2.25	30	85 - 126
Bromochloromethane	10.0	10	101		2.05	30	77 - 128
Bromodichloromethane	10.0	8.9	89.0		2.44	30	79 - 128
Bromoform	10.0	8.2	82.3		2.64	30	78 - 133
Bromomethane	10.0	4.4	44.0		1.14	30	43 - 168
Carbon disulfide	10.0	11	106		3.69	30	68 - 146
Carbon tetrachloride	10.0	9.2	91.8		2.05	30	77 - 141
Chlorobenzene	10.0	8.8	87.5	*	2.37	30	88 - 120
Chloroethane	10.0	9.7	97.3		3.43	30	65 - 136
Chloroform	10.0	9.9	99.0		2.59	30	82 - 128
Chloromethane	10.0	6.3	63.1		0.636	30	43 - 155

FORM III **LCS / LCS DUPLICATE RECOVERY**

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	17I0914
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41433.00-Katonah Task 0500
Matrix:	Water		
Batch:	BI71307	Laboratory ID:	BI71307-BSD1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
cis-1,2-Dichloroethylene	10.0	9.4	94.0	3.55	30	83 - 129
cis-1,3-Dichloropropylene	10.0	8.6	85.7	0.00	30	80 - 131
Cyclohexane	10.0	10	99.9	2.28	30	63 - 149
Dibromochloromethane	10.0	8.6	85.5	1.62	30	80 - 130
Dichlorodifluoromethane	10.0	9.8	98.1	3.51	30	44 - 144
Ethyl Benzene	10.0	9.4	94.0	2.52	30	80 - 131
Isopropylbenzene	10.0	9.0	90.2	3.27	30	76 - 140
Methyl acetate	10.0	10	100	1.88	30	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	9.5	94.9	0.944	30	76 - 135
Methylcyclohexane	10.0	9.0	89.8	4.25	30	72 - 143
Methylene chloride	10.0	9.7	96.9	0.515	30	55 - 137
o-Xylene	10.0	8.7	86.8	2.28	30	78 - 130
p- & m- Xylenes	20.0	19	96.0	2.93	30	77 - 133
Styrene	10.0	9.4	94.1	2.10	30	67 - 132
Tetrachloroethylene	10.0	9.5	95.4	3.20	30	82 - 131
Toluene	10.0	9.1	90.8	2.29	30	80 - 127
trans-1,2-Dichloroethylene	10.0	9.9	99.4	2.88	30	80 - 132
trans-1,3-Dichloropropylene	10.0	8.3	82.7	2.39	30	78 - 131
Trichloroethylene	10.0	8.7	87.2	3.82	30	82 - 128
Trichlorofluoromethane	10.0	9.7	97.3	2.74	30	67 - 139
Vinyl Chloride	10.0	8.4	84.5	1.41	30	58 - 145

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	17I0914
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41433.00-Katonah Task 0500
Matrix:	Water	Laboratory ID:	BI71306-BLK1	File ID:	QV601434.D
Prepared:	09/27/17 10:00	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	09/27/17 15:06	Instrument:	QVOA6		
Batch:	BI71306	Sequence:	Y7I2835	Calibration:	YI70003

CAS NO.	COMPOUND	CONC. (ug/L)	Q
71-55-6	1,1,1-Trichloroethane	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
75-35-4	1,1-Dichloroethylene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
78-93-3	2-Butanone	0.50	U
591-78-6	2-Hexanone	0.50	U
108-10-1	4-Methyl-2-pentanone	0.50	U
67-64-1	Acetone	2.0	U
71-43-2	Benzene	0.50	U
74-97-5	Bromochloromethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
75-25-2	Bromoform	0.50	U
74-83-9	Bromomethane	0.50	U
75-15-0	Carbon disulfide	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
108-90-7	Chlorobenzene	0.50	U
75-00-3	Chloroethane	0.50	U
67-66-3	Chloroform	0.50	U
74-87-3	Chloromethane	0.50	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	17I0914
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41433.00-Katonah Task 0500
Matrix:	Water	Laboratory ID:	BI71306-BLK1	File ID:	QV601434.D
Prepared:	09/27/17 10:00	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	09/27/17 15:06	Instrument:	QVOA6		
Batch:	BI71306	Sequence:	Y7I2835	Calibration:	YI70003

CAS NO.	COMPOUND	CONC. (ug/L)	Q
156-59-2	cis-1,2-Dichloroethylene	0.50	U
10061-01-5	cis-1,3-Dichloropropylene	0.50	U
110-82-7	Cyclohexane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
75-71-8	Dichlorodifluoromethane	0.50	U
100-41-4	Ethyl Benzene	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-20-9	Methyl acetate	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	0.50	U
108-87-2	Methylcyclohexane	0.50	U
75-09-2	Methylene chloride	2.0	U
95-47-6	o-Xylene	0.50	U
179601-23-1	p- & m- Xylenes	1.0	U
100-42-5	Styrene	0.50	U
127-18-4	Tetrachloroethylene	0.50	U
108-88-3	Toluene	0.50	U
156-60-5	trans-1,2-Dichloroethylene	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	0.50	U
79-01-6	Trichloroethylene	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
1330-20-7	Xylenes, Total	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4	10.0	9.72	97.2	69 - 130	
Toluene-d8	10.0	9.39	93.9	81 - 117	
p-Bromofluorobenzene	10.0	11.0	110	79 - 122	

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	17I0914
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41433.00-Katonah Task 0500
Matrix:	Water	Laboratory ID:	BI71307-BLK1	File ID:	QV601461.D
Prepared:	09/27/17 17:00	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	09/28/17 03:57	Instrument:	QVOA6		
Batch:	BI71307	Sequence:	Y7I2927	Calibration:	YI70003

CAS NO.	COMPOUND	CONC. (ug/L)	Q
71-55-6	1,1,1-Trichloroethane	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
75-35-4	1,1-Dichloroethylene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
78-93-3	2-Butanone	0.50	U
591-78-6	2-Hexanone	0.50	U
108-10-1	4-Methyl-2-pentanone	0.50	U
67-64-1	Acetone	2.0	U
71-43-2	Benzene	0.50	U
74-97-5	Bromochloromethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
75-25-2	Bromoform	0.50	U
74-83-9	Bromomethane	0.50	U
75-15-0	Carbon disulfide	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
108-90-7	Chlorobenzene	0.50	U
75-00-3	Chloroethane	0.50	U
67-66-3	Chloroform	0.50	U
74-87-3	Chloromethane	0.50	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	17I0914
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41433.00-Katonah Task 0500
Matrix:	Water	Laboratory ID:	BI71307-BLK1	File ID:	QV601461.D
Prepared:	09/27/17 17:00	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	09/28/17 03:57	Instrument:	QVOA6		
Batch:	BI71307	Sequence:	Y7I2927	Calibration:	YI70003

CAS NO.	COMPOUND	CONC. (ug/L)	Q
156-59-2	cis-1,2-Dichloroethylene	0.50	U
10061-01-5	cis-1,3-Dichloropropylene	0.50	U
110-82-7	Cyclohexane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
75-71-8	Dichlorodifluoromethane	0.50	U
100-41-4	Ethyl Benzene	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-20-9	Methyl acetate	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	0.50	U
108-87-2	Methylcyclohexane	0.50	U
75-09-2	Methylene chloride	2.0	U
95-47-6	o-Xylene	0.50	U
179601-23-1	p- & m- Xylenes	1.0	U
100-42-5	Styrene	0.50	U
127-18-4	Tetrachloroethylene	0.50	U
108-88-3	Toluene	0.50	U
156-60-5	trans-1,2-Dichloroethylene	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	0.50	U
79-01-6	Trichloroethylene	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
1330-20-7	Xylenes, Total	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4	10.0	9.92	99.2	69 - 130	
Toluene-d8	10.0	9.35	93.5	81 - 117	
p-Bromofluorobenzene	10.0	10.7	107	79 - 122	

FORM IV **PREPARATION BATCH SUMMARY**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 17I0914

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00-Katonah Task 0500

Batch: BI71306 Batch Matrix: Water Preparation: EPA 5030B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
KWF-MW2S	17I0914-01	QV601446.D	09/27/17 10:00	
KWF-MW11R	17I0914-02	QV601447.D	09/27/17 10:00	
KWF-MW1S	17I0914-03	QV601448.D	09/27/17 10:00	
KWF-MW4R	17I0914-04	QV601449.D	09/27/17 10:00	
Blank	BI71306-BLK1	QV601434.D	09/27/17 10:00	
LCS	BI71306-BS1	QV601431.D	09/27/17 10:00	
LCS Dup	BI71306-BSD1	QV601432.D	09/27/17 10:00	
KWF-MW1S	BI71306-MS1	QV601450.D	09/27/17 10:00	
KWF-MW1S	BI71306-MSD1	QV601451.D	09/27/17 10:00	

FORM IV **PREPARATION BATCH SUMMARY**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 17I0914

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00-Katonah Task 0500

Batch: BI71307 Batch Matrix: Water Preparation: EPA 5030B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
KWF-PW	17I0914-05	QV601464.D	09/27/17 17:00	
KWF-FD	17I0914-06	QV601465.D	09/27/17 17:00	
KWF-EB	17I0914-07	QV601466.D	09/27/17 17:00	
KWF-TB	17I0914-08	QV601462.D	09/27/17 17:00	
Blank	BI71307-BLK1	QV601461.D	09/27/17 17:00	
LCS	BI71307-BS1	QV601458.D	09/27/17 17:00	
LCS Dup	BI71307-BSD1	QV601459.D	09/27/17 17:00	

Form 5A

Volatile Organic Instrument Performance Check

Bromofluorobenzene (BFB)

Lab Name: York Analytical Laboratories, Inc.
Client: Chazen Environmental Services (Poughkeepsie)
Lab File ID: QV601038.D
Instrument ID: VOA No. 6
Calibration: VQ6LO006

SDG: 17I0914
Project: 41433.00-Katonah Task 0500
BFB Injection Date: 09/11/17
BFB Injection Time: 10:34
Sequence: QBQV6091117A

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0-40.0% of mass 95	15.7		
75	30.0-60.0% of mass 95	48.7		
95	Base peak, 100% relative abundance	100.0		
96	5.0-9.0% of mass 95	6.6		
173	Less than 2.0% of mass 174	0.0	71.9	**1**
174	50.0-100.0% of mass 95	71.9		
175	5.0-9.0% of mass 174	7.5	71.9	**1**
176	95.0-101.0% of mass 174	96.6	71.9	**1**
177	5.0-9.0% of mass 176	6.5	96.6	**2**

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

This check applies to the following samples, MS, MSD, blanks and standards

	Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1		VOA CALIBRATION CURVE LEVEL 1	QV601040	09/11/17	14:26
2		VOA CALIBRATION CURVE LEVEL 2	QV601041	09/11/17	14:52
3		VOA CALIBRATION CURVE LEVEL 3	QV601042	09/11/17	15:18
4		VOA CALIBRATION CURVE LEVEL 4	QV601043	09/11/17	15:44
5		VOA CALIBRATION CURVE LEVEL 5	QV601044	09/11/17	16:11
6		VOA CALIBRATION CURVE LEVEL 6	QV601045	09/11/17	16:36
7		VOA CALIBRATION CURVE LEVEL 7	QV601046	09/11/17	17:04
8		VOA CALIBRATION CURVE LEVEL 8	QV601047	09/11/17	17:30
9		VOA CALIBRATION CURVE LEVEL 9	QV601048	09/11/17	17:57
10		SCV-1	QV601050	09/11/17	18:50
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Form 5A

Volatile Organic Instrument Performance Check

Bromofluorobenzene (BFB)

Lab Name: York Analytical Laboratories, Inc.
Client: Chazen Environmental Services (Poughkeepsie)
Lab File ID: QV601428.D
Instrument ID: VOA No. 6
Calibration: VQ6LO006

SDG: 17I0914
Project: 41433.00-Katonah Task 0500
BFB Injection Date: 09/27/17
BFB Injection Time: 12:26
Sequence: QBQV6092717A

m/e	Ion Abundance Criteria	% Relative Abundance	
50	15.0-40.0% of mass 95	16.0	
75	30.0-60.0% of mass 95	48.1	
95	Base peak, 100% relative abundance	100.0	
96	5.0-9.0% of mass 95	7.0	
173	Less than 2.0% of mass 174	0.0	64.4 **1**
174	50.0-100.0% of mass 95	64.4	
175	5.0-9.0% of mass 174	8.9	64.4 **1**
176	95.0-101.0% of mass 174	95.9	64.4 **1**
177	5.0-9.0% of mass 176	6.9	95.9 **2**

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

This check applies to the following samples, MS, MSD, blanks and standards

	Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1		10ppb VOA CAL CHECK	QV601430.D	9/27/2017	13:19
2		BA70225-BS1	QV601431.D	9/27/2017	13:46
3		BA70225-BSD1	QV601432.D	9/27/2017	14:13
4		BA70225-BLK1	QV601434.D	9/27/2017	15:06
5	KWF-MW2S	17I0914-01	QV601446.D	9/27/2017	21:21
6	KWF-MW11R	17I0914-02	QV601447.D	9/27/2017	21:47
7	KWF-MW1S	17I0914-03	QV601448.D	9/27/2017	22:14
8	KWF-MW4R	17I0914-04	QV601449.D	9/27/2017	22:40
9	KWF-MW1S (MS1)	17I0914-03 (MS1)	QV601450.D	9/27/2017	23:06
10	KWF-MW1S (MSD1)	17I0914-03 (MSD1)	QV601451.D	9/27/2017	23:33
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Form 5A

Volatile Organic Instrument Performance Check

Bromofluorobenzene (BFB)

Lab Name: York Analytical Laboratories, Inc.
Client: Chazen Environmental Services (Poughkeepsie)
Lab File ID: QV601453.D
Instrument ID: VOA No. 6
Calibration: VQ6LO006

SDG: 17I0914
Project: 41433.00-Katonah Task 0500
BFB Injection Date: 09/27/17
BFB Injection Time: 00:26
Sequence: QBQV6092717B

m/e	Ion Abundance Criteria	% Relative Abundance	
50	15.0-40.0% of mass 95	15.0	
75	30.0-60.0% of mass 95	47.9	
95	Base peak, 100% relative abundance	100.0	
96	5.0-9.0% of mass 95	6.5	
173	Less than 2.0% of mass 174	0.0	70.0 **1**
174	50.0-100.0% of mass 95	70.0	
175	5.0-9.0% of mass 174	7.4	70.0 **1**
176	95.0-101.0% of mass 174	96.9	70.0 **1**
177	5.0-9.0% of mass 176	6.5	96.9 **2**

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

This check applies to the following samples, MS, MSD, blanks and standards

	Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1		10ppb VOA CAL CHECK	QV601457.D	9/28/2017	02:12
2		BI71307-BS1	QV601458.D	9/28/2017	2:38
3		BI71307-BSD1	QV601459.D	9/28/2017	3:04
4		BI71307-BLK1	QV601461.D	9/28/2017	3:57
5	KWF-TB	17I0914-08	QV601462.D	9/28/2017	4:24
6	KWF-PW	17I0914-05	QV601464.D	9/28/2017	5:17
7	KWF-FD	17I0914-06	QV601465.D	9/28/2017	5:43
8	KWF-EB	17I0914-07	QV601466.D	9/28/2017	6:10
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Form 8A

Volatile Internal Standard Area and RT Summary

Lab Name: York Analytical Laboratories, Inc.
Client: Chazen Environmental Services (Poughkeepsie)
Sequence: QBQV6092717A
Calibration: VQ6LO006
Lab File ID: QV601430.D

SDG: 17I0914
Project: 41433.00-Katonah Task 0500
Instrument ID: VOA No. 6
Injection Date: 09/27/17
Injection Time: 13:19

	IS 1 (FBZ)		IS 2 (CBZ)		IS 3 (DCB)	
	Area	RT	Area	RT	Area	RT
12 Hour Std	178838	6.14	777221	9.20	257816	12.18
Upper Limit	357676	6.64	1554442	9.70	515632	12.68
Lower Limit	89419	5.64	388611	8.70	128908	11.68
Client Sample ID						
BA70225-BS1	173913	6.15	754255	9.2	246916	12.18
BA70225-BSD1	174312	6.14	755694	9.2	249601	12.19
BA70225-BLK1	171829	6.15	729582	9.2	235155	12.19
KWF-MW2S	185933	6.14	807908	9.2	273512	12.19
KWF-MW11R	179687	6.14	775811	9.2	248730	12.18
KWF-MW1S	176186	6.14	768155	9.2	255038	12.18
KWF-MW4R	180214	6.14	786283	9.19	255970	12.18
KWF-MW1S (MS1)	184977	6.14	808219	9.2	278510	12.19
KWF-MW1S (MSD1)	189895	6.14	820454	9.19	286994	12.19

IS 1 (FBZ) = Fluorobenzene
IS 2 (CBZ) = Chlorobenzene-d5
IS 3 (DCB) = 1,2-Dichlorobenzene-d4

Area Upper Limit +100% of internal standard area
Area Lower Limit -50% of internal standard area
RT Upper Limit +0.50 minutes of internal standard RT
RT Upper Limit -0.50 minutes of internal standard RT

* = Values outside of QC limits

Form 8A

Volatile Internal Standard Area and RT Summary

Lab Name: York Analytical Laboratories, Inc.
Client: Chazen Environmental Services (Poughkeepsie)
Sequence: QBQV6092717B
Calibration: VQ6LO006
Lab File ID: QV601457.D

SDG: 17I0914
Project: 41433.00-Katonah Task 0500
Instrument ID: VOA No. 6
Injection Date: 09/28/17
Injection Time: 02:12

	IS 1 (FBZ)		IS 2 (CBZ)		IS 3 (DCB)	
	Area	RT	Area	RT	Area	RT
12 Hour Std	187084	6.14	813368	9.20	282797	12.18
Upper Limit	374168	6.64	1626736	9.70	565594	12.68
Lower Limit	93542	5.64	406684	8.70	141399	11.68
Client Sample ID						
BI71307-BS1	190187	6.14	826683	9.2	282470	12.18
BI71307-BSD1	193009	6.14	840369	9.2	289421	12.18
BI71307-BLK1	185593	6.14	796678	9.2	260631	12.18
KWF-TB	184900	6.14	796549	9.19	260086	12.18
KWF-PW	178843	6.14	780315	9.2	253335	12.19
KWF-FD	181038	6.14	782540	9.2	258580	12.18
KWF-EB	184433	6.14	791052	9.2	264617	12.18

IS 1 (FBZ) = Fluorobenzene
IS 2 (CBZ) = Chlorobenzene-d5
IS 3 (DCB) = 1,2-Dichlorobenzene-d4

Area Upper Limit +100% of internal standard area
Area Lower Limit -50% of internal standard area
RT Upper Limit +0.50 minutes of internal standard RT
RT Upper Limit -0.50 minutes of internal standard RT

* = Values outside of QC limits

METHOD DETECTION AND REPORTING LIMITS

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 17I0914

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41433.00-Katonah Task 0500

Matrix: Water **Instrument:** QVOA6

Analyte	LOD	LOQ	Units
1,1,1-Trichloroethane	0.20	0.50	ug/L
1,1,2,2-Tetrachloroethane	0.20	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane (Fr	0.20	0.50	ug/L
1,1,2-Trichloroethane	0.20	0.50	ug/L
1,1-Dichloroethane	0.20	0.50	ug/L
1,1-Dichloroethylene	0.20	0.50	ug/L
1,2,3-Trichlorobenzene	0.20	0.50	ug/L
1,2,4-Trichlorobenzene	0.20	0.50	ug/L
1,2-Dibromo-3-chloropropane	0.20	0.50	ug/L
1,2-Dibromoethane	0.20	0.50	ug/L
1,2-Dichlorobenzene	0.20	0.50	ug/L
1,2-Dichloroethane	0.20	0.50	ug/L
1,2-Dichloropropane	0.20	0.50	ug/L
1,3-Dichlorobenzene	0.20	0.50	ug/L
1,4-Dichlorobenzene	0.20	0.50	ug/L
2-Butanone	0.20	0.50	ug/L
2-Hexanone	0.20	0.50	ug/L
4-Methyl-2-pentanone	0.20	0.50	ug/L
Acetone	1.0	2.0	ug/L
Benzene	0.20	0.50	ug/L
Bromochloromethane	0.20	0.50	ug/L
Bromodichloromethane	0.20	0.50	ug/L
Bromoform	0.20	0.50	ug/L
Bromomethane	0.20	0.50	ug/L
Carbon disulfide	0.20	0.50	ug/L
Carbon tetrachloride	0.20	0.50	ug/L
Chlorobenzene	0.20	0.50	ug/L
Chloroethane	0.20	0.50	ug/L
Chloroform	0.20	0.50	ug/L
Chloromethane	0.20	0.50	ug/L
cis-1,2-Dichloroethylene	0.20	0.50	ug/L
cis-1,3-Dichloropropylene	0.20	0.50	ug/L
Cyclohexane	0.20	0.50	ug/L
Dibromochloromethane	0.20	0.50	ug/L
Dichlorodifluoromethane	0.20	0.50	ug/L
Ethyl Benzene	0.20	0.50	ug/L
Isopropylbenzene	0.20	0.50	ug/L

METHOD DETECTION AND REPORTING LIMITS

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 17I0914

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41433.00-Katonah Task 0500

Matrix: Water **Instrument:** QVOA6

Analyte	LOD	LOQ	Units
Methyl acetate	0.20	0.50	ug/L
Methyl tert-butyl ether (MTBE)	0.20	0.50	ug/L
Methylcyclohexane	0.20	0.50	ug/L
Methylene chloride	1.0	2.0	ug/L
o-Xylene	0.20	0.50	ug/L
p- & m- Xylenes	0.50	1.0	ug/L
Styrene	0.20	0.50	ug/L
Tetrachloroethylene	0.20	0.50	ug/L
Toluene	0.20	0.50	ug/L
trans-1,2-Dichloroethylene	0.20	0.50	ug/L
trans-1,3-Dichloropropylene	0.20	0.50	ug/L
Trichloroethylene	0.20	0.50	ug/L
Trichlorofluoromethane	0.20	0.50	ug/L
Vinyl Chloride	0.20	0.50	ug/L
Xylenes, Total	0.60	1.5	ug/L

HOLDING TIME SUMMARY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 17I0914

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00-Katonah Task 0500

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
KWF-MW2S	09/22/17 10:55	09/22/17 17:30	09/27/17 10:00	4.96	14.00	09/27/17 21:21	5.43	14.00	
KWF-MW11R	09/22/17 12:00	09/22/17 17:30	09/27/17 10:00	4.92	14.00	09/27/17 21:47	5.41	14.00	
KWF-MW1S	09/22/17 12:55	09/22/17 17:30	09/27/17 10:00	4.88	14.00	09/27/17 22:14	5.39	14.00	
KWF-MW4R	09/22/17 14:20	09/22/17 17:30	09/27/17 10:00	4.82	14.00	09/27/17 22:40	5.35	14.00	
KWF-PW	09/22/17 15:00	09/22/17 17:30	09/27/17 17:00	5.08	14.00	09/28/17 05:17	5.60	14.00	
KWF-FD	09/22/17 15:00	09/22/17 17:30	09/27/17 17:00	5.08	14.00	09/28/17 05:43	5.61	14.00	
KWF-EB	09/22/17 14:45	09/22/17 17:30	09/27/17 17:00	5.09	14.00	09/28/17 06:10	5.64	14.00	
KWF-TB	09/22/17 15:00	09/22/17 17:30	09/27/17 17:00	5.08	14.00	09/28/17 04:24	5.56	14.00	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KWF-MW2S

Laboratory: York Analytical Laboratories, Inc. SDG: 17I0914

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00-Katonah Task 0500

Matrix: Water Laboratory ID: 17I0914-01 File ID: QV601446.D

Sampled: 09/22/17 10:55 Prepared: 09/27/17 10:00 Analyzed: 09/27/17 21:21

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BI71306 Sequence: Y7I2835 Calibration: YI70003 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
71-55-6	1,1,1-Trichloroethane	1	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.50	U
75-34-3	1,1-Dichloroethane	1	0.50	U
75-35-4	1,1-Dichloroethylene	1	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U
106-93-4	1,2-Dibromoethane	1	0.50	U
95-50-1	1,2-Dichlorobenzene	1	0.50	U
107-06-2	1,2-Dichloroethane	1	0.50	U
78-87-5	1,2-Dichloropropane	1	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.50	U
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	2.0	U
71-43-2	Benzene	1	0.50	U
74-97-5	Bromochloromethane	1	0.50	U
75-27-4	Bromodichloromethane	1	0.50	U
75-25-2	Bromoform	1	0.50	U
74-83-9	Bromomethane	1	0.50	U
75-15-0	Carbon disulfide	1	0.22	J
56-23-5	Carbon tetrachloride	1	0.50	U
108-90-7	Chlorobenzene	1	0.50	U
75-00-3	Chloroethane	1	0.50	U
67-66-3	Chloroform	1	0.50	U
74-87-3	Chloromethane	1	0.50	U
156-59-2	cis-1,2-Dichloroethylene	1	0.50	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U
124-48-1	Dibromochloromethane	1	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KWF-MW2S

Laboratory:	York Analytical Laboratories, Inc.			SDG:	17I0914
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41433.00-Katonah Task 0500
Matrix:	Water	Laboratory ID:	17I0914-01	File ID:	QV601446.D
Sampled:	09/22/17 10:55	Prepared:	09/27/17 10:00	Analyzed:	09/27/17 21:21
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BI71306	Sequence:	Y7I2835	Calibration:	YI70003
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-09-2	Methylene chloride	1	2.0	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
100-42-5	Styrene	1	0.50	U
127-18-4	Tetrachloroethylene	1	0.50	U
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
79-01-6	Trichloroethylene	1	0.50	U
75-69-4	Trichlorofluoromethane	1	0.50	U
75-01-4	Vinyl Chloride	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4	10.0	10.4	104	69 - 130	
Toluene-d8	10.0	9.28	92.8	81 - 117	
p-Bromofluorobenzene	10.0	10.7	107	79 - 122	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601446.D
Acq On : 27 Sep 2017 9:21 pm
InstName : MSVOA6
Operator : AS
Sample : 17I0914-01
Misc : QBQV6092717A 8260 TCL/SOM A
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 29 12:46:50 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 13:44:47 2017
Response via : Initial Calibration

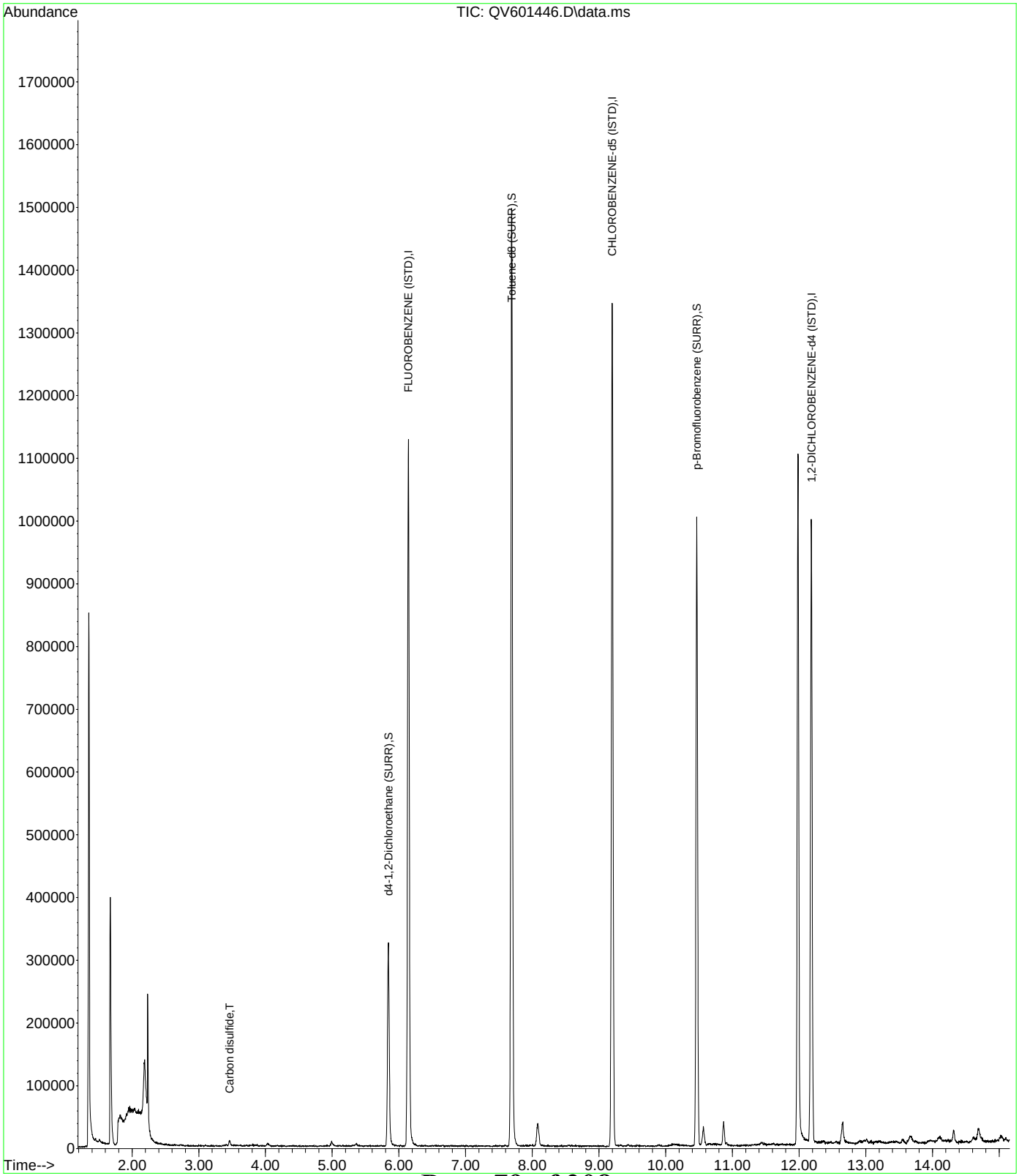
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	6.142	70	185933	10.00	ppb	# 0.00
40) CHLOROBENZENE-d5 (ISTD)	9.197	117	807908	10.00	ppb	# 0.00
67) 1,2-DICHLOROBENZENE-d4...	12.185	152	273512	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.842	65	210093	10.41	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.10%			
51) Toluene-d8 (SURR)	7.689	98	1073095	9.28	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.80%			
70) p-Bromofluorobenzene (...	10.466	95	384143	10.69	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.90%			
Target Compounds						Qvalue
15) Carbon disulfide	3.460	76	11225	0.22	ppb	100

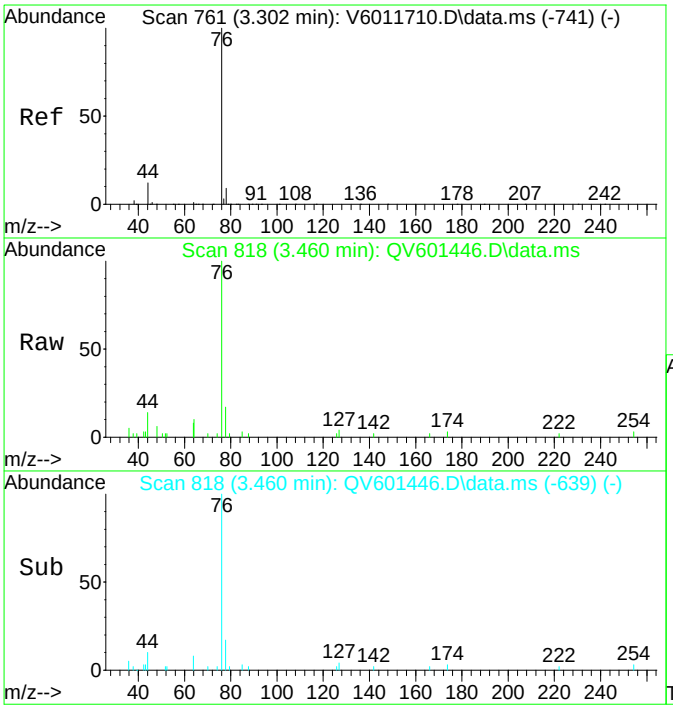
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601446.D
Acq On : 27 Sep 2017 9:21 pm
InstName : MSVOA6
Operator : AS
Sample : 17I0914-01
Misc : QBQV6092717A 8260 TCL/SOM A
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 29 12:46:50 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 13:44:47 2017
Response via : Initial Calibration

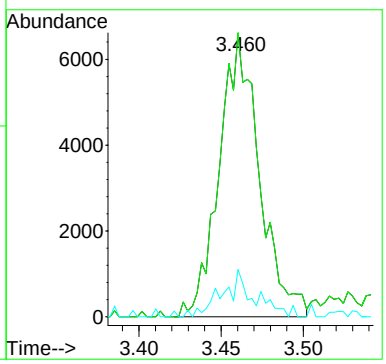




#15
Carbon disulfide
Concen: 0.22 ppb
RT: 3.460 min Scan# 818
Delta R.T. -0.003 min
Lab File: QV601446.D
Acq: 27 Sep 2017 9:21 pm

Tgt Ion: 76 Resp: 11225

Ion	Ratio	Lower	Upper
76	100		
76	100.0	65.0	135.0
78	10.0	4.7	14.0



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KWF-MW11R

Laboratory: York Analytical Laboratories, Inc. SDG: 17I0914

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00-Katonah Task 0500

Matrix: Water Laboratory ID: 17I0914-02 File ID: QV601447.D

Sampled: 09/22/17 12:00 Prepared: 09/27/17 10:00 Analyzed: 09/27/17 21:47

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BI71306 Sequence: Y7I2835 Calibration: YI70003 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
71-55-6	1,1,1-Trichloroethane	1	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.50	U
75-34-3	1,1-Dichloroethane	1	0.50	U
75-35-4	1,1-Dichloroethylene	1	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U
106-93-4	1,2-Dibromoethane	1	0.50	U
95-50-1	1,2-Dichlorobenzene	1	0.50	U
107-06-2	1,2-Dichloroethane	1	0.50	U
78-87-5	1,2-Dichloropropane	1	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.50	U
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	2.0	U
71-43-2	Benzene	1	0.50	U
74-97-5	Bromochloromethane	1	0.50	U
75-27-4	Bromodichloromethane	1	0.50	U
75-25-2	Bromoform	1	0.50	U
74-83-9	Bromomethane	1	0.50	U
75-15-0	Carbon disulfide	1	0.50	U
56-23-5	Carbon tetrachloride	1	0.50	U
108-90-7	Chlorobenzene	1	0.50	U
75-00-3	Chloroethane	1	0.50	U
67-66-3	Chloroform	1	0.38	J
74-87-3	Chloromethane	1	0.50	U
156-59-2	cis-1,2-Dichloroethylene	1	0.50	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U
124-48-1	Dibromochloromethane	1	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KWF-MW11R

Laboratory:	York Analytical Laboratories, Inc.			SDG:	17I0914
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41433.00-Katonah Task 0500
Matrix:	Water	Laboratory ID:	17I0914-02	File ID:	QV601447.D
Sampled:	09/22/17 12:00	Prepared:	09/27/17 10:00	Analyzed:	09/27/17 21:47
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

Batch: BI71306 Sequence: Y7I2835 Calibration: YI70003 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-09-2	Methylene chloride	1	2.0	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
100-42-5	Styrene	1	0.50	U
127-18-4	Tetrachloroethylene	1	0.53	
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
79-01-6	Trichloroethylene	1	0.50	U
75-69-4	Trichlorofluoromethane	1	0.50	U
75-01-4	Vinyl Chloride	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4	10.0	9.99	99.9	69 - 130	
Toluene-d8	10.0	9.36	93.6	81 - 117	
p-Bromofluorobenzene	10.0	11.0	110	79 - 122	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601447.D
Acq On : 27 Sep 2017 9:47 pm
InstName : MSVOA6
Operator : AS
Sample : 17I0914-02
Misc : QBQV6092717A 8260 TCL/SOM A
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 29 12:48:36 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 13:44:47 2017
Response via : Initial Calibration

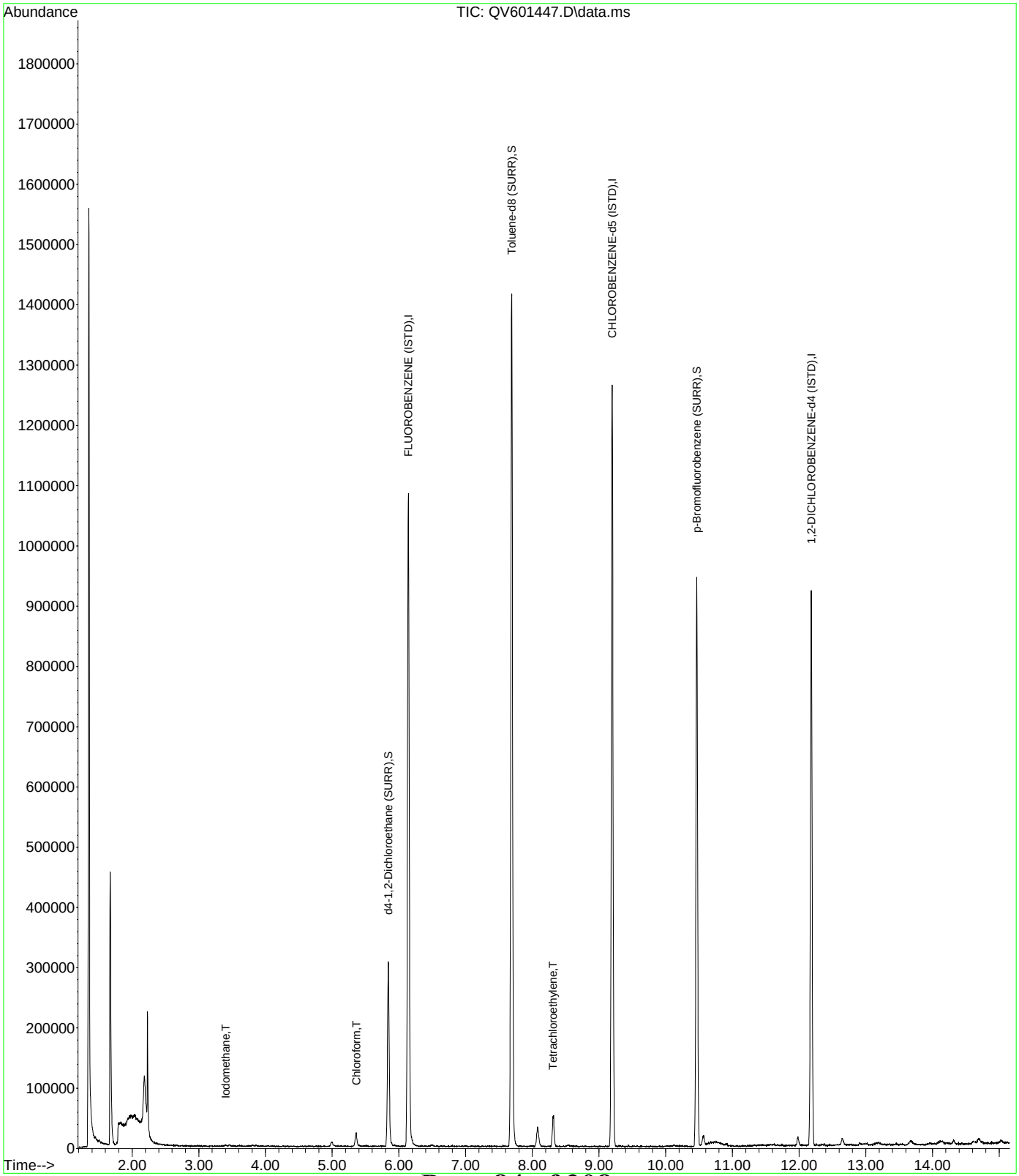
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.140	70	179687	10.00	ppb		0.00
40) CHLOROBENZENE-d5 (ISTD)	9.198	117	775811	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	12.183	152	248730	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.839	65	194806	9.99	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.90%				
51) Toluene-d8 (SURR)	7.690	98	1039782	9.36	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.60%				
70) p-Bromofluorobenzene (...	10.463	95	360849	11.04	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.40%				
Target Compounds							Qvalue
13) Iodomethane	3.399	142	1412	1.06	ppb		96
30) Chloroform	5.361	83	16795	0.38	ppb	#	70
56) Tetrachloroethylene	8.310	166	14785	0.53	ppb		97

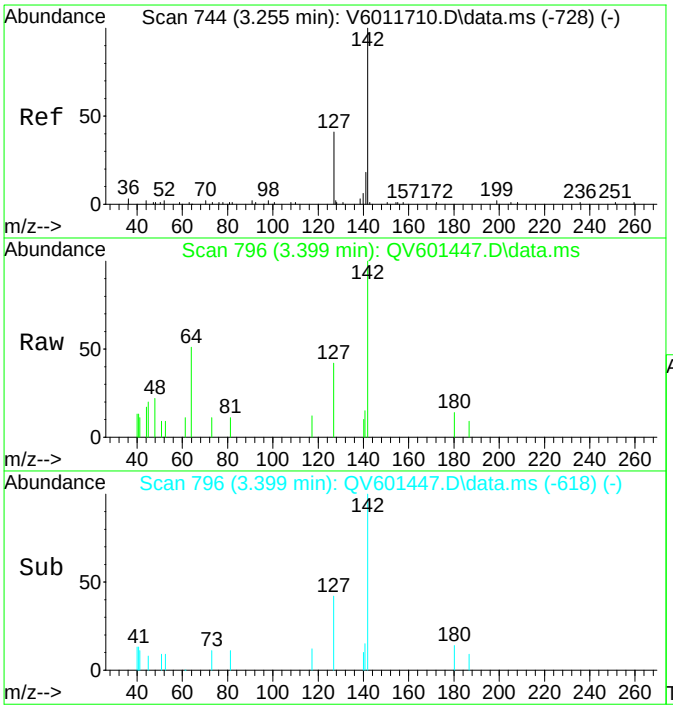
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601447.D
Acq On : 27 Sep 2017 9:47 pm
InstName : MSVOA6
Operator : AS
Sample : 17I0914-02
Misc : QBQV6092717A 8260 TCL/SOM A
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 29 12:48:36 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 13:44:47 2017
Response via : Initial Calibration

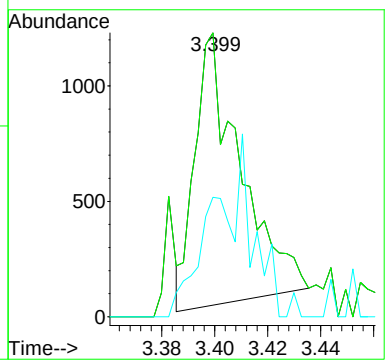


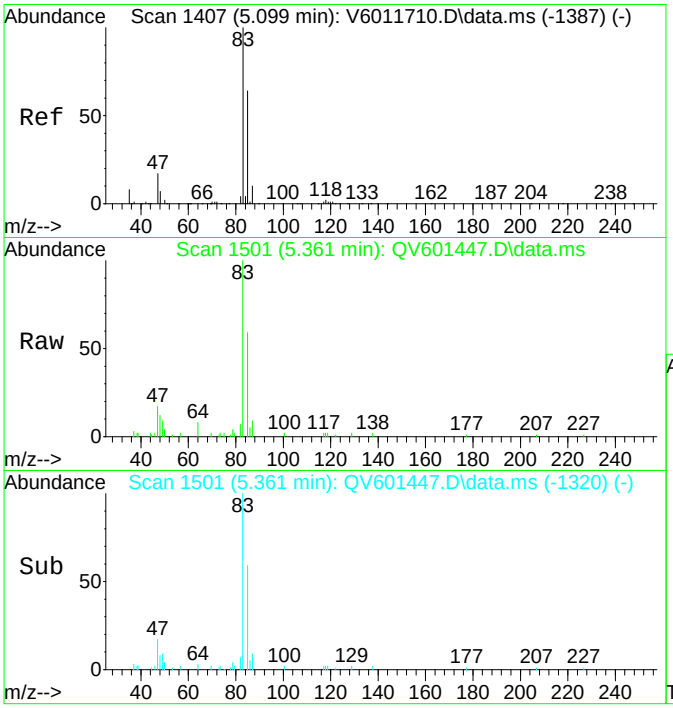


#13
Iodomethane
Concen: 1.06 ppb
RT: 3.399 min Scan# 796
Delta R.T. -0.006 min
Lab File: QV601447.D
Acq: 27 Sep 2017 9:47 pm

Tgt Ion:142 Resp: 1412

Ion	Ratio	Lower	Upper
142	100		
142	100.0	80.0	120.0
127	33.8	20.8	62.2

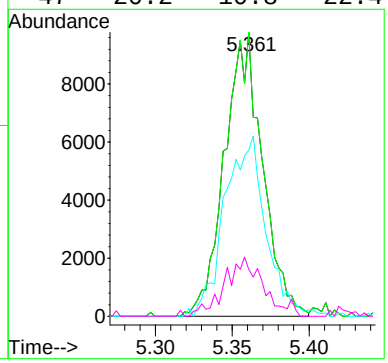


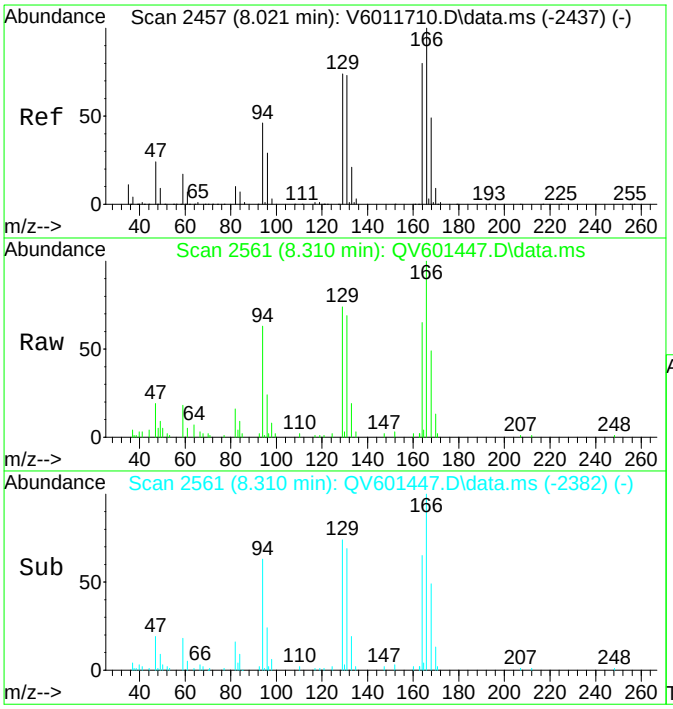


#30
Chloroform
Concen: 0.38 ppb
RT: 5.361 min Scan# 1501
Delta R.T. 0.003 min
Lab File: QV601447.D
Acq: 27 Sep 2017 9:47 pm

Tgt Ion: 83 Resp: 16795

Ion	Ratio	Lower	Upper
83	100		
83	100.0	65.0	135.0
85	0.0	41.8	86.8#
47	20.2	10.8	22.4

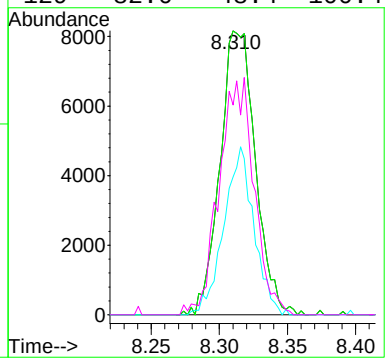




#56
Tetrachloroethylene
Concen: 0.53 ppb
RT: 8.310 min Scan# 2561
Delta R.T. -0.003 min
Lab File: QV601447.D
Acq: 27 Sep 2017 9:47 pm

Tgt Ion:166 Resp: 14785

Ion	Ratio	Lower	Upper
166	100		
166	100.0	65.0	135.0
168	50.2	31.8	66.0
129	82.0	48.4	100.4



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KWF-MW1S

Laboratory: York Analytical Laboratories, Inc. SDG: 17I0914

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00-Katonah Task 0500

Matrix: Water Laboratory ID: 17I0914-03 File ID: QV601448.D

Sampled: 09/22/17 12:55 Prepared: 09/27/17 10:00 Analyzed: 09/27/17 22:14

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BI71306 Sequence: Y7I2835 Calibration: YI70003 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
71-55-6	1,1,1-Trichloroethane	1	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.50	U
75-34-3	1,1-Dichloroethane	1	0.50	U
75-35-4	1,1-Dichloroethylene	1	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U
106-93-4	1,2-Dibromoethane	1	0.50	U
95-50-1	1,2-Dichlorobenzene	1	0.50	U
107-06-2	1,2-Dichloroethane	1	0.50	U
78-87-5	1,2-Dichloropropane	1	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.50	U
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	2.0	U
71-43-2	Benzene	1	0.50	U
74-97-5	Bromochloromethane	1	0.50	U
75-27-4	Bromodichloromethane	1	0.50	U
75-25-2	Bromoform	1	0.50	U
74-83-9	Bromomethane	1	0.50	U
75-15-0	Carbon disulfide	1	0.50	U
56-23-5	Carbon tetrachloride	1	0.50	U
108-90-7	Chlorobenzene	1	0.50	U
75-00-3	Chloroethane	1	0.50	U
67-66-3	Chloroform	1	0.50	U
74-87-3	Chloromethane	1	0.50	U
156-59-2	cis-1,2-Dichloroethylene	1	0.50	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U
124-48-1	Dibromochloromethane	1	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KWF-MW1S

Laboratory: York Analytical Laboratories, Inc. SDG: 17I0914

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00-Katonah Task 0500

Matrix: Water Laboratory ID: 17I0914-03 File ID: QV601448.D

Sampled: 09/22/17 12:55 Prepared: 09/27/17 10:00 Analyzed: 09/27/17 22:14

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BI71306 Sequence: Y7I2835 Calibration: YI70003 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-09-2	Methylene chloride	1	2.0	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
100-42-5	Styrene	1	0.50	U
127-18-4	Tetrachloroethylene	1	0.50	
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
79-01-6	Trichloroethylene	1	0.46	J
75-69-4	Trichlorofluoromethane	1	0.50	U
75-01-4	Vinyl Chloride	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4	10.0	10.3	103	69 - 130	
Toluene-d8	10.0	9.37	93.7	81 - 117	
p-Bromofluorobenzene	10.0	10.6	106	79 - 122	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601448.D
Acq On : 27 Sep 2017 10:14 pm
InstName : MSVOA6
Operator : AS
Sample : 17I0914-03
Misc : QBQV6092717A 8260 TCL/SOM A
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 29 12:49:40 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 13:44:47 2017
Response via : Initial Calibration

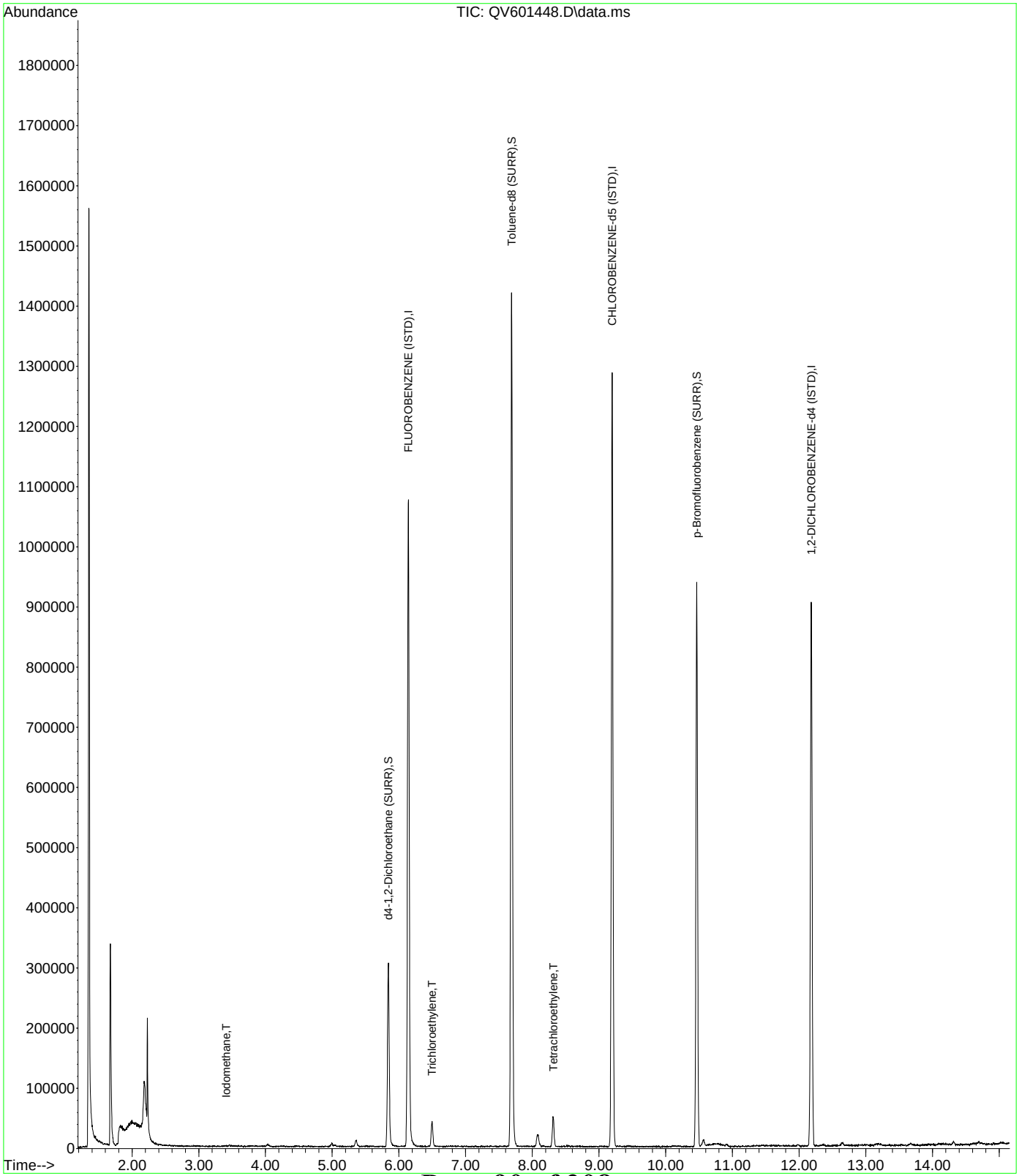
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.142	70	176186	10.00	ppb		0.00
40) CHLOROBENZENE-d5 (ISTD)	9.197	117	768155	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	12.183	152	255038	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.839	65	196475	10.28	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.80%				
51) Toluene-d8 (SURR)	7.689	98	1030150	9.37	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.70%				
70) p-Bromofluorobenzene (...	10.466	95	356447	10.64	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.40%				
Target Compounds							Qvalue
13) Iodomethane	3.410	142	1711m	1.09	ppb		
41) Trichloroethylene	6.493	95	13597	0.46	ppb	#	76
56) Tetrachloroethylene	8.315	166	13771	0.50	ppb		97

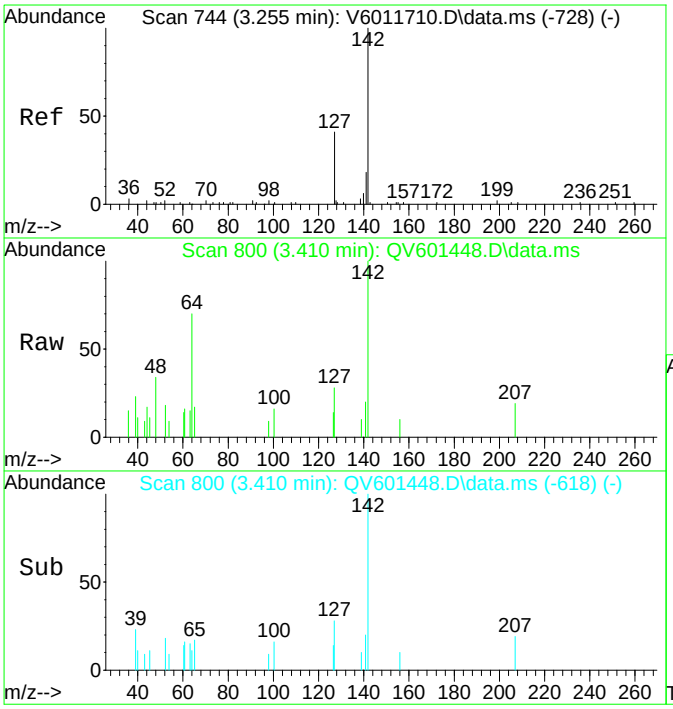
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601448.D
Acq On : 27 Sep 2017 10:14 pm
InstName : MSVOA6
Operator : AS
Sample : 17I0914-03
Misc : QBQV6092717A 8260 TCL/SOM A
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 29 12:49:40 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 13:44:47 2017
Response via : Initial Calibration

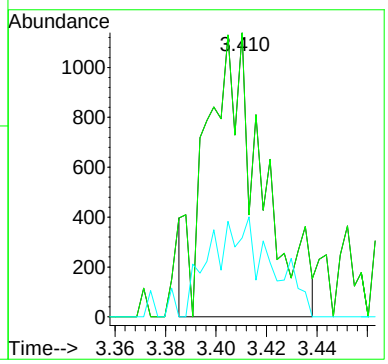


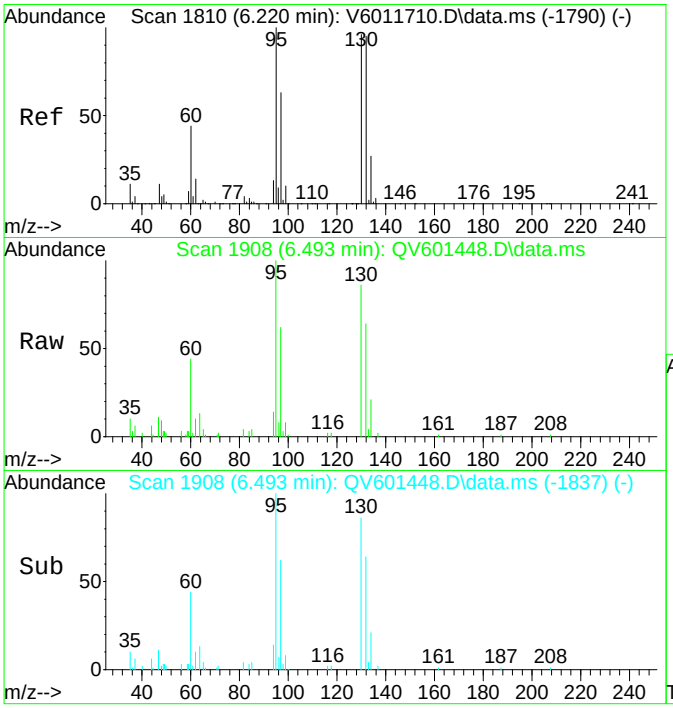


#13
Iodomethane
Concen: 1.09 ppb m
RT: 3.410 min Scan# 800
Delta R.T. 0.005 min
Lab File: QV601448.D
Acq: 27 Sep 2017 10:14 pm

Tgt Ion:142 Resp: 1711

Ion	Ratio	Lower	Upper
142	100		
142	6.7	80.0	120.0#
127	2.5	20.8	62.2#

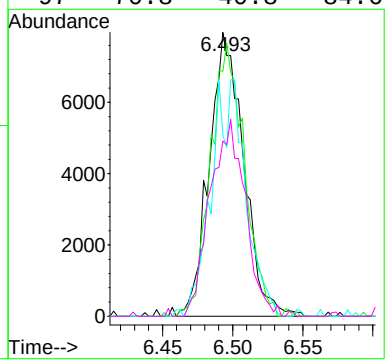


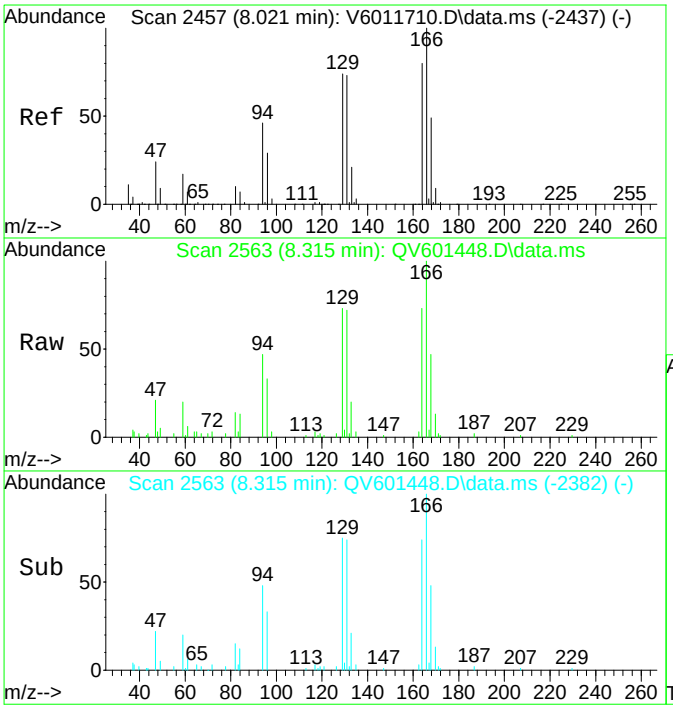


#41
Trichloroethylene
Concen: 0.46 ppb
RT: 6.493 min Scan# 1908
Delta R.T. -0.003 min
Lab File: QV601448.D
Acq: 27 Sep 2017 10:14 pm

Tgt Ion: 95 Resp: 13597

Ion	Ratio	Lower	Upper
95	100		
130	94.7	62.6	130.0
132	42.3	62.0	128.8#
97	70.8	40.8	84.6

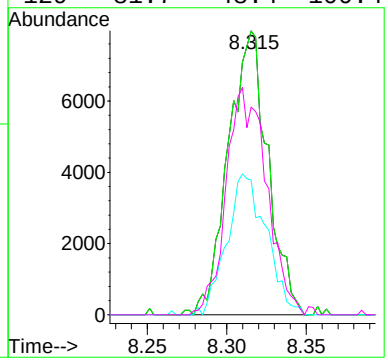




#56
Tetrachloroethylene
Concen: 0.50 ppb
RT: 8.315 min Scan# 2563
Delta R.T. 0.002 min
Lab File: QV601448.D
Acq: 27 Sep 2017 10:14 pm

Tgt Ion:166 Resp: 13771

Ion	Ratio	Lower	Upper
166	100		
166	100.0	65.0	135.0
168	49.9	31.8	66.0
129	81.7	48.4	100.4



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KWF-MW4R

Laboratory: York Analytical Laboratories, Inc. SDG: 17I0914

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00-Katonah Task 0500

Matrix: Water Laboratory ID: 17I0914-04 File ID: QV601449.D

Sampled: 09/22/17 14:20 Prepared: 09/27/17 10:00 Analyzed: 09/27/17 22:40

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BI71306 Sequence: Y7I2835 Calibration: YI70003 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
71-55-6	1,1,1-Trichloroethane	1	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.50	U
75-34-3	1,1-Dichloroethane	1	0.50	U
75-35-4	1,1-Dichloroethylene	1	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U
106-93-4	1,2-Dibromoethane	1	0.50	U
95-50-1	1,2-Dichlorobenzene	1	0.50	U
107-06-2	1,2-Dichloroethane	1	0.50	U
78-87-5	1,2-Dichloropropane	1	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.50	U
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	2.0	U
71-43-2	Benzene	1	0.50	U
74-97-5	Bromochloromethane	1	0.50	U
75-27-4	Bromodichloromethane	1	0.50	U
75-25-2	Bromoform	1	0.50	U
74-83-9	Bromomethane	1	0.50	U
75-15-0	Carbon disulfide	1	0.50	U
56-23-5	Carbon tetrachloride	1	0.50	U
108-90-7	Chlorobenzene	1	0.50	U
75-00-3	Chloroethane	1	0.50	U
67-66-3	Chloroform	1	0.50	U
74-87-3	Chloromethane	1	0.50	U
156-59-2	cis-1,2-Dichloroethylene	1	0.50	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U
124-48-1	Dibromochloromethane	1	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KWF-MW4R

Laboratory:	York Analytical Laboratories, Inc.			SDG:	17I0914
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41433.00-Katonah Task 0500
Matrix:	Water	Laboratory ID:	17I0914-04	File ID:	QV601449.D
Sampled:	09/22/17 14:20	Prepared:	09/27/17 10:00	Analyzed:	09/27/17 22:40
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

Batch: BI71306 Sequence: Y7I2835 Calibration: YI70003 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-09-2	Methylene chloride	1	2.0	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
100-42-5	Styrene	1	0.50	U
127-18-4	Tetrachloroethylene	1	3.9	
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
79-01-6	Trichloroethylene	1	0.50	U
75-69-4	Trichlorofluoromethane	1	0.50	U
75-01-4	Vinyl Chloride	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4	10.0	10.0	100	69 - 130	
Toluene-d8	10.0	9.32	93.2	81 - 117	
p-Bromofluorobenzene	10.0	10.6	106	79 - 122	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601449.D
Acq On : 27 Sep 2017 10:40 pm
InstName : MSVOA6
Operator : AS
Sample : 17I0914-04
Misc : QBQV6092717A 8260 TCL/SOM A
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 29 12:52:43 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 13:44:47 2017
Response via : Initial Calibration

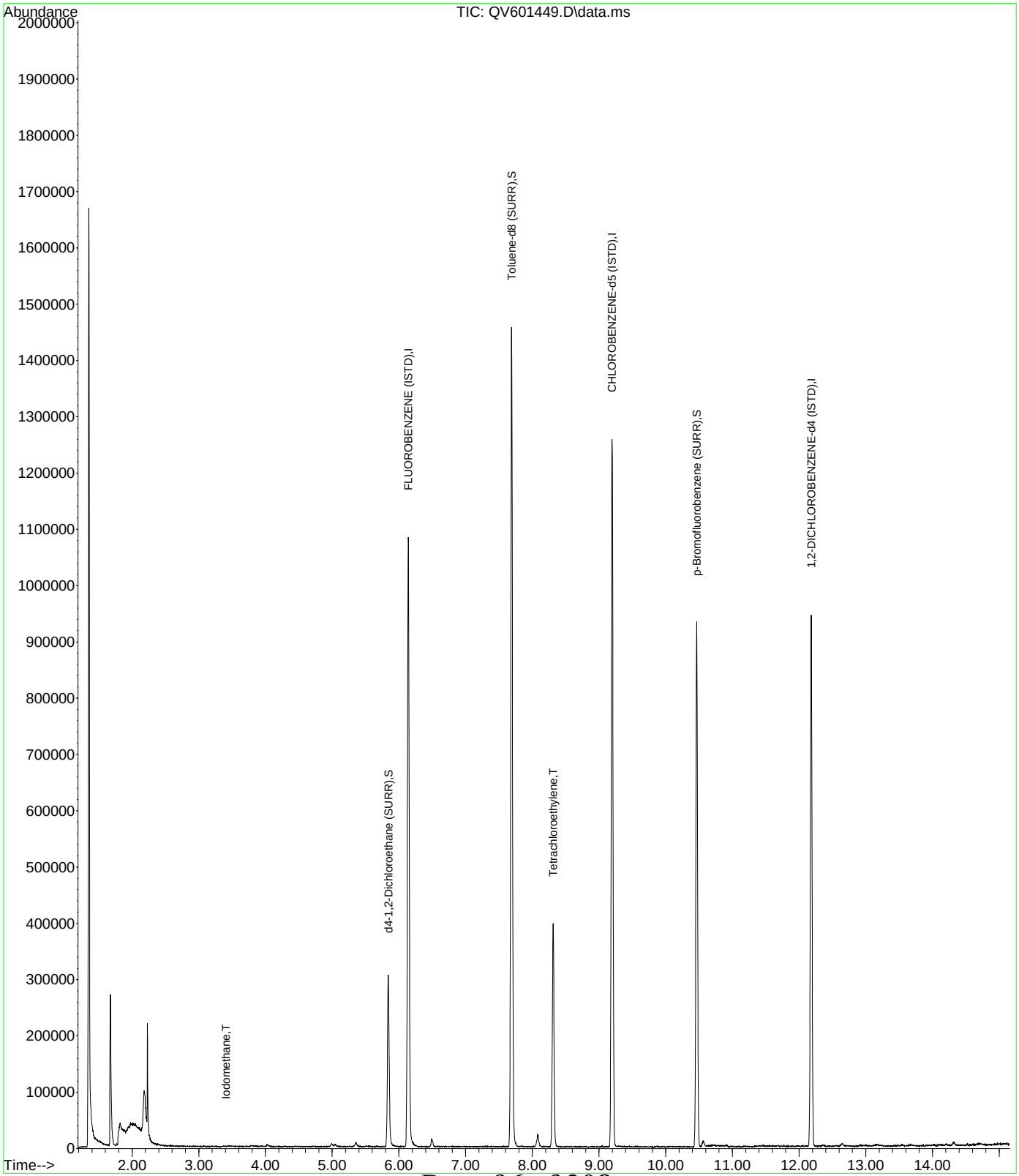
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	6.140	70	180214	10.00	ppb	# 0.00
40) CHLOROBENZENE-d5 (ISTD)	9.195	117	786283	10.00	ppb	# 0.00
67) 1,2-DICHLOROBENZENE-d4...	12.183	152	255970	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.842	65	195821	10.01	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.10%			
51) Toluene-d8 (SURR)	7.689	98	1049301	9.32	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.20%			
70) p-Bromofluorobenzene (...	10.463	95	356826	10.61	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.10%			
Target Compounds						Qvalue
13) Iodomethane	3.405	142	857	1.01	ppb	98
56) Tetrachloroethylene	8.313	166	110467	3.92	ppb #	71

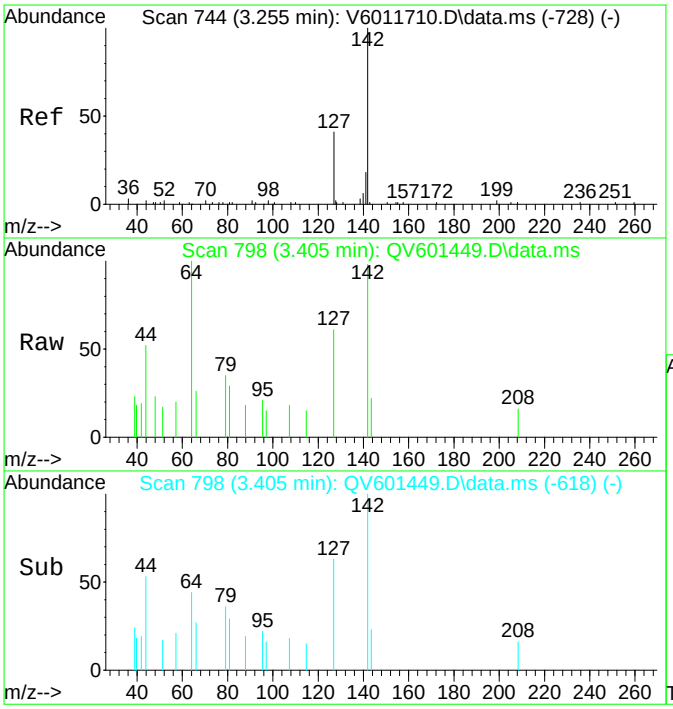
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601449.D
Acq On : 27 Sep 2017 10:40 pm
InstName : MSVOA6
Operator : AS
Sample : 17I0914-04
Misc : QBQV6092717A 8260 TCL/SOM A
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 29 12:52:43 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 13:44:47 2017
Response via : Initial Calibration

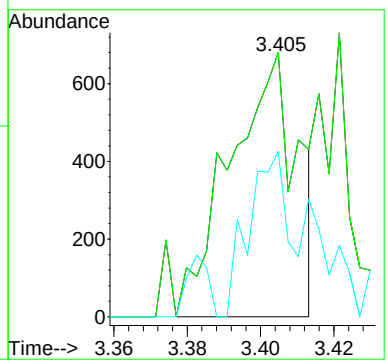


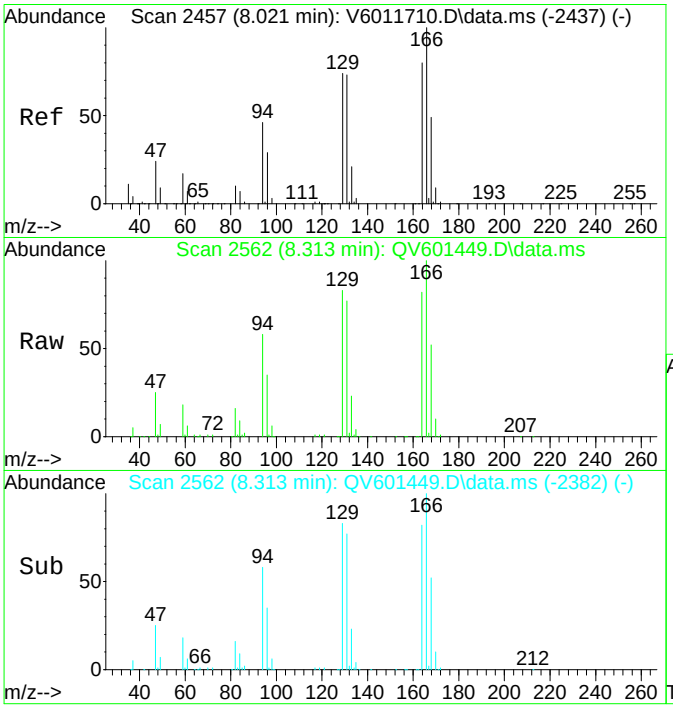


#13
Iodomethane
Concen: 1.01 ppb
RT: 3.405 min Scan# 798
Delta R.T. -0.000 min
Lab File: QV601449.D
Acq: 27 Sep 2017 10:40 pm

Tgt Ion:142 Resp: 857

Ion	Ratio	Lower	Upper
142	100		
142	100.0	80.0	120.0
127	37.6	20.8	62.2

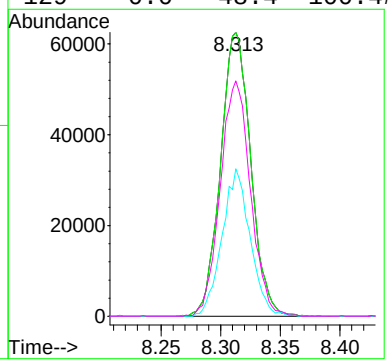




#56
Tetrachloroethylene
Concen: 3.92 ppb
RT: 8.313 min Scan# 2562
Delta R.T. -0.000 min
Lab File: QV601449.D
Acq: 27 Sep 2017 10:40 pm

Tgt Ion:166 Resp: 110467

Ion	Ratio	Lower	Upper
166	100		
166	100.0	65.0	135.0
168	48.4	31.8	66.0
129	0.0	48.4	100.4#



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KWF-PW

Laboratory: York Analytical Laboratories, Inc. SDG: 17I0914

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00-Katonah Task 0500

Matrix: Water Laboratory ID: 17I0914-05 File ID: QV601464.D

Sampled: 09/22/17 15:00 Prepared: 09/27/17 17:00 Analyzed: 09/28/17 05:17

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BI71307 Sequence: Y7I2927 Calibration: YI70003 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
71-55-6	1,1,1-Trichloroethane	1	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.50	U
75-34-3	1,1-Dichloroethane	1	0.50	U
75-35-4	1,1-Dichloroethylene	1	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U
106-93-4	1,2-Dibromoethane	1	0.50	U
95-50-1	1,2-Dichlorobenzene	1	0.50	U
107-06-2	1,2-Dichloroethane	1	0.50	U
78-87-5	1,2-Dichloropropane	1	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.50	U
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	2.0	U
71-43-2	Benzene	1	0.50	U
74-97-5	Bromochloromethane	1	0.50	U
75-27-4	Bromodichloromethane	1	0.50	U
75-25-2	Bromoform	1	0.50	U
74-83-9	Bromomethane	1	0.50	U
75-15-0	Carbon disulfide	1	0.50	U
56-23-5	Carbon tetrachloride	1	0.50	U
108-90-7	Chlorobenzene	1	0.50	U
75-00-3	Chloroethane	1	0.50	U
67-66-3	Chloroform	1	0.50	U
74-87-3	Chloromethane	1	0.50	U
156-59-2	cis-1,2-Dichloroethylene	1	0.50	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U
124-48-1	Dibromochloromethane	1	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KWF-PW

Laboratory: York Analytical Laboratories, Inc. SDG: 17I0914

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00-Katonah Task 0500

Matrix: Water Laboratory ID: 17I0914-05 File ID: QV601464.D

Sampled: 09/22/17 15:00 Prepared: 09/27/17 17:00 Analyzed: 09/28/17 05:17

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BI71307 Sequence: Y7I2927 Calibration: YI70003 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-09-2	Methylene chloride	1	2.0	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
100-42-5	Styrene	1	0.50	U
127-18-4	Tetrachloroethylene	1	2.9	
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
79-01-6	Trichloroethylene	1	0.50	U
75-69-4	Trichlorofluoromethane	1	0.50	U
75-01-4	Vinyl Chloride	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4	10.0	9.90	99.0	69 - 130	
Toluene-d8	10.0	9.37	93.7	81 - 117	
p-Bromofluorobenzene	10.0	10.9	109	79 - 122	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601464.D
Acq On : 28 Sep 2017 5:17 am
InstName : MSVOA6
Operator : AS
Sample : 17I0914-05
Misc : QBQV6092717B 8260 TCL/SOM A
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Sep 29 13:14:49 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 11:12:10 2017
Response via : Initial Calibration

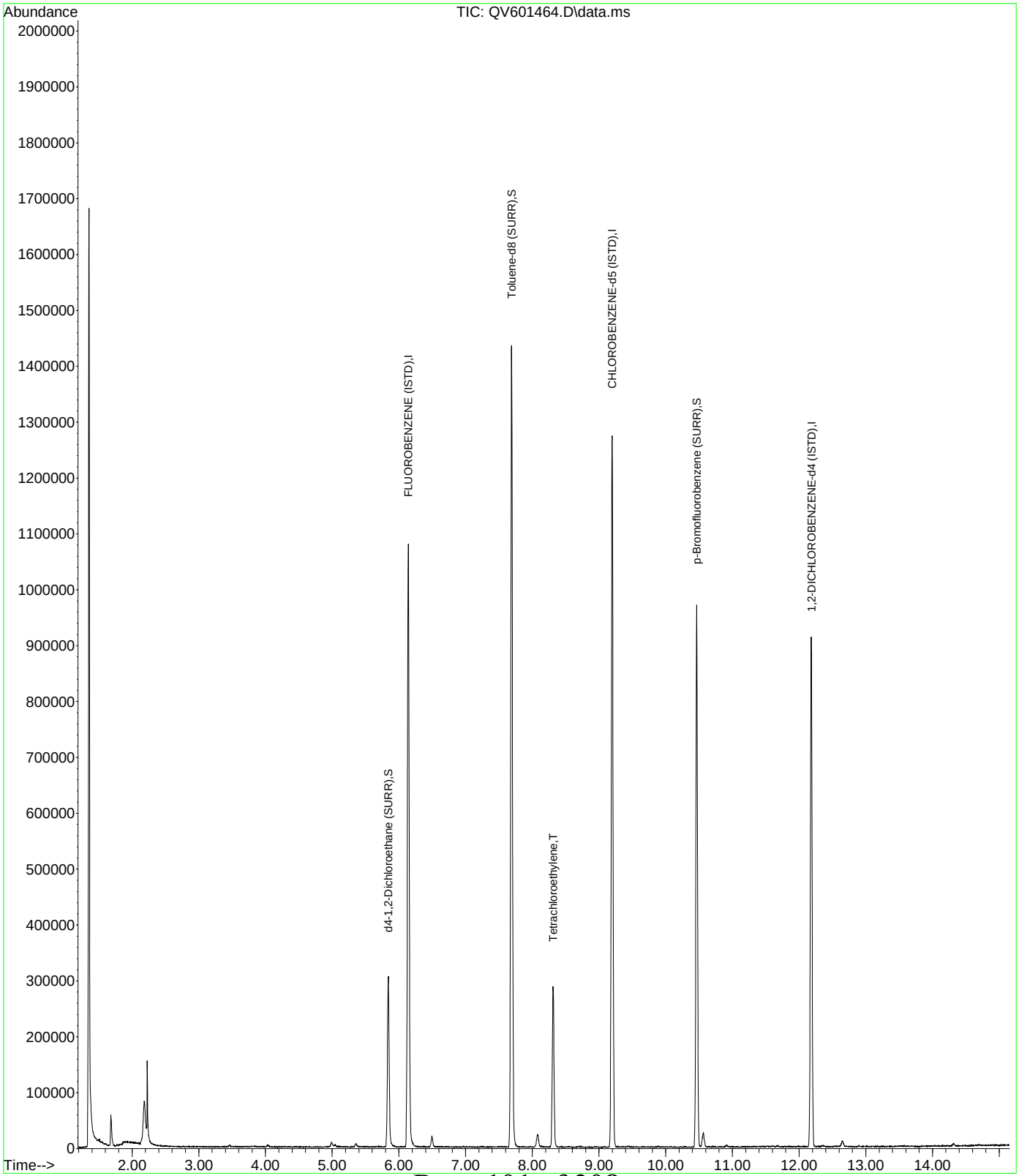
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	6.140	70	178843	10.00	ppb	# 0.00
40) CHLOROBENZENE-d5 (ISTD)	9.198	117	780315	10.00	ppb	0.00
67) 1,2-DICHLOROBENZENE-d4...	12.186	152	253335	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.839	65	192053	9.90	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.00%			
51) Toluene-d8 (SURR)	7.690	98	1046404	9.37	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.70%			
70) p-Bromofluorobenzene (...	10.466	95	361820	10.87	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.70%			
Target Compounds						Qvalue
56) Tetrachloroethylene	8.313	166	81965	2.93	ppb	# 71

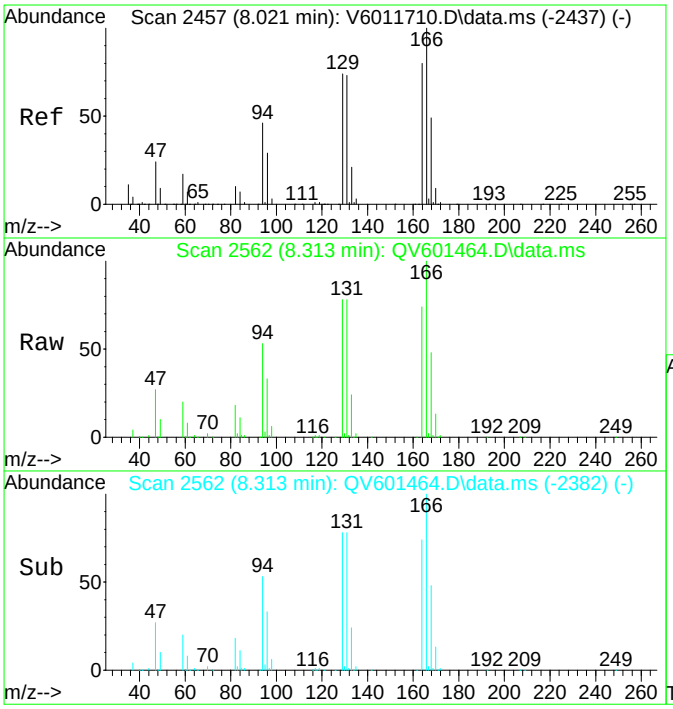
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601464.D
Acq On : 28 Sep 2017 5:17 am
InstName : MSVOA6
Operator : AS
Sample : 17I0914-05
Misc : QBQV6092717B 8260 TCL/SOM A
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Sep 29 13:14:49 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 11:12:10 2017
Response via : Initial Calibration

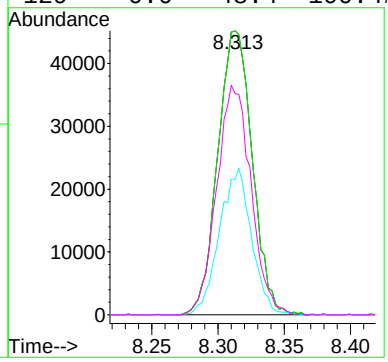




#56
Tetrachloroethylene
Concen: 2.93 ppb
RT: 8.313 min Scan# 2562
Delta R.T. -0.000 min
Lab File: QV601464.D
Acq: 28 Sep 2017 5:17 am

Tgt Ion:166 Resp: 81965

Ion	Ratio	Lower	Upper
166	100		
166	100.0	65.0	135.0
168	48.1	31.8	66.0
129	0.0	48.4	100.4#



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KWF-FD

Laboratory:	York Analytical Laboratories, Inc.			SDG:	17I0914
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41433.00-Katonah Task 0500
Matrix:	Water	Laboratory ID:	17I0914-06	File ID:	QV601465.D
Sampled:	09/22/17 15:00	Prepared:	09/27/17 17:00	Analyzed:	09/28/17 05:43
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BI71307	Sequence:	Y7I2927	Calibration:	YI70003
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
71-55-6	1,1,1-Trichloroethane	1	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.50	U
75-34-3	1,1-Dichloroethane	1	0.50	U
75-35-4	1,1-Dichloroethylene	1	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U
106-93-4	1,2-Dibromoethane	1	0.50	U
95-50-1	1,2-Dichlorobenzene	1	0.50	U
107-06-2	1,2-Dichloroethane	1	0.50	U
78-87-5	1,2-Dichloropropane	1	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.50	U
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	2.0	U
71-43-2	Benzene	1	0.50	U
74-97-5	Bromochloromethane	1	0.50	U
75-27-4	Bromodichloromethane	1	0.50	U
75-25-2	Bromoform	1	0.50	U
74-83-9	Bromomethane	1	0.50	U
75-15-0	Carbon disulfide	1	0.50	U
56-23-5	Carbon tetrachloride	1	0.50	U
108-90-7	Chlorobenzene	1	0.50	U
75-00-3	Chloroethane	1	0.50	U
67-66-3	Chloroform	1	0.50	U
74-87-3	Chloromethane	1	0.50	U
156-59-2	cis-1,2-Dichloroethylene	1	0.50	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U
124-48-1	Dibromochloromethane	1	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KWF-FD

Laboratory:	York Analytical Laboratories, Inc.			SDG:	17I0914
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41433.00-Katonah Task 0500
Matrix:	Water	Laboratory ID:	17I0914-06	File ID:	QV601465.D
Sampled:	09/22/17 15:00	Prepared:	09/27/17 17:00	Analyzed:	09/28/17 05:43
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

Batch: BI71307 Sequence: Y7I2927 Calibration: YI70003 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-09-2	Methylene chloride	1	2.0	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
100-42-5	Styrene	1	0.50	U
127-18-4	Tetrachloroethylene	1	3.8	
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
79-01-6	Trichloroethylene	1	0.50	U
75-69-4	Trichlorofluoromethane	1	0.50	U
75-01-4	Vinyl Chloride	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4	10.0	10.1	101	69 - 130	
Toluene-d8	10.0	9.35	93.5	81 - 117	
p-Bromofluorobenzene	10.0	10.6	106	79 - 122	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601465.D
Acq On : 28 Sep 2017 5:43 am
InstName : MSVOA6
Operator : AS
Sample : 17I0914-06
Misc : QBQV6092717B 8260 TCL/SOM A
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Sep 29 13:16:29 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 11:12:10 2017
Response via : Initial Calibration

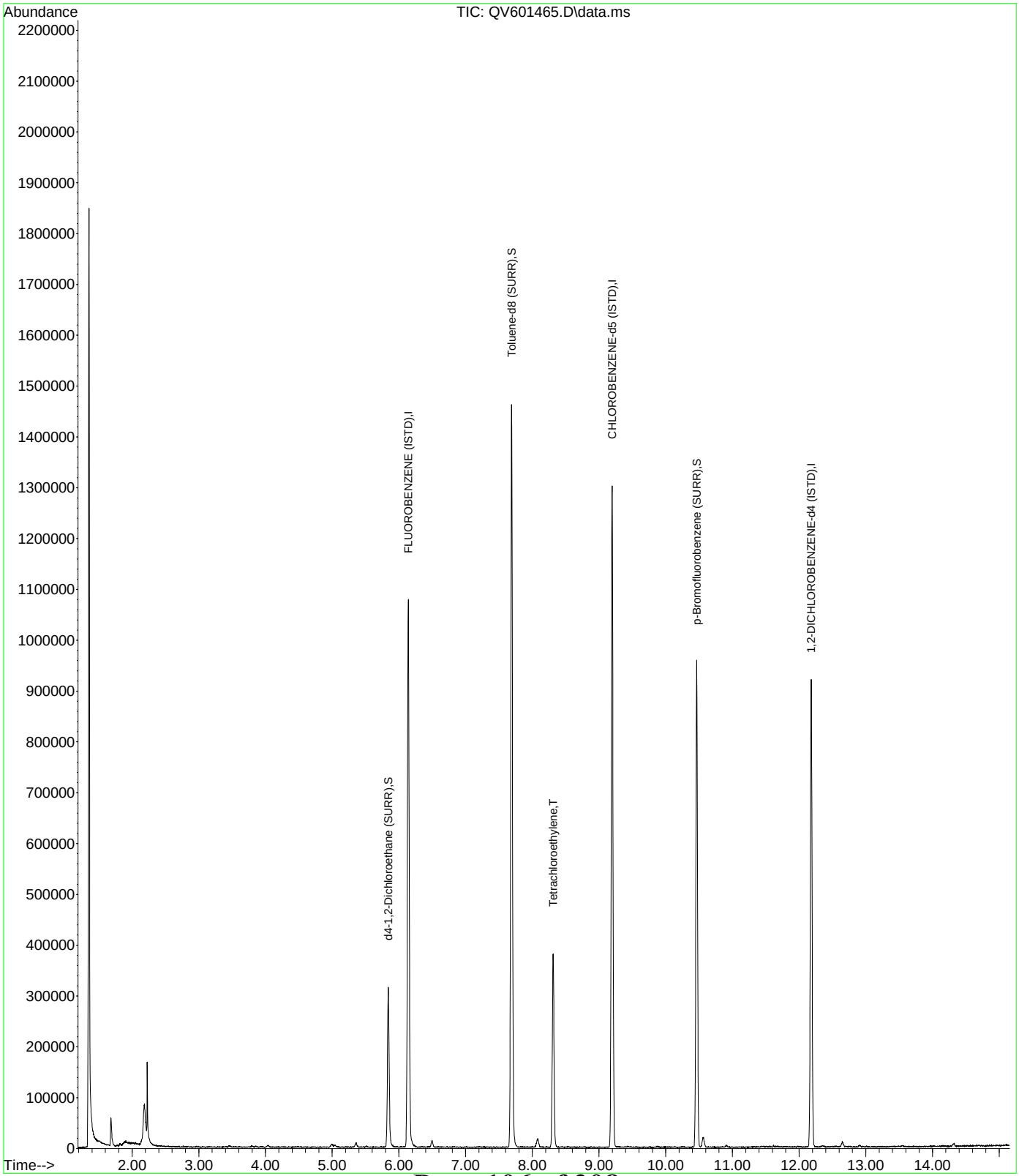
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	6.140	70	181038	10.00	ppb	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.197	117	782540	10.00	ppb	0.00
67) 1,2-DICHLOROBENZENE-d4...	12.177	152	258580	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.839	65	197658	10.06	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.60%			
51) Toluene-d8 (SURR)	7.689	98	1047354	9.35	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.50%			
70) p-Bromofluorobenzene (...	10.466	95	360768	10.62	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.20%			
Target Compounds						Qvalue
56) Tetrachloroethylene	8.313	166	107717	3.84	ppb	# 71

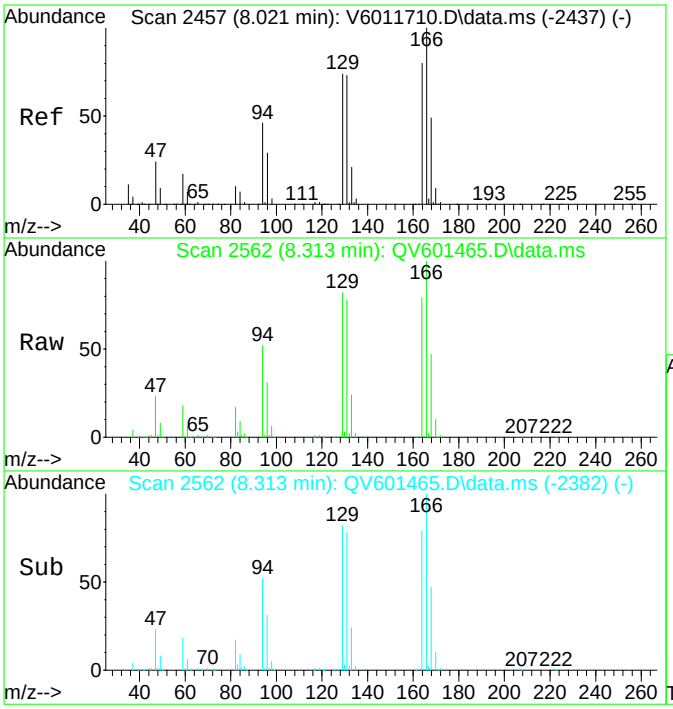
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601465.D
Acq On : 28 Sep 2017 5:43 am
InstName : MSVOA6
Operator : AS
Sample : 17I0914-06
Misc : QBQV6092717B 8260 TCL/SOM A
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Sep 29 13:16:29 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 11:12:10 2017
Response via : Initial Calibration

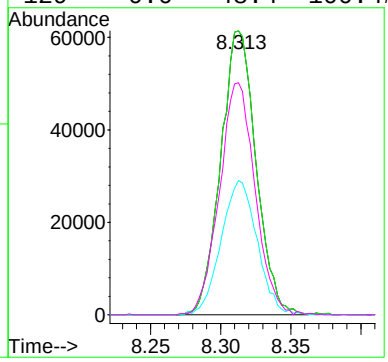




#56
Tetrachloroethylene
Concen: 3.84 ppb
RT: 8.313 min Scan# 2562
Delta R.T. -0.000 min
Lab File: QV601465.D
Acq: 28 Sep 2017 5:43 am

Tgt Ion:166 Resp: 107717

Ion	Ratio	Lower	Upper
166	100		
166	100.0	65.0	135.0
168	48.2	31.8	66.0
129	0.0	48.4	100.4#



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KWF-EB

Laboratory:	York Analytical Laboratories, Inc.			SDG:	17I0914
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41433.00-Katonah Task 0500
Matrix:	Water	Laboratory ID:	17I0914-07	File ID:	QV601466.D
Sampled:	09/22/17 14:45	Prepared:	09/27/17 17:00	Analyzed:	09/28/17 06:10
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BI71307	Sequence:	Y7I2927	Calibration:	YI70003
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
71-55-6	1,1,1-Trichloroethane	1	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.50	U
75-34-3	1,1-Dichloroethane	1	0.50	U
75-35-4	1,1-Dichloroethylene	1	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U
106-93-4	1,2-Dibromoethane	1	0.50	U
95-50-1	1,2-Dichlorobenzene	1	0.50	U
107-06-2	1,2-Dichloroethane	1	0.50	U
78-87-5	1,2-Dichloropropane	1	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.50	U
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	2.0	U
71-43-2	Benzene	1	0.50	U
74-97-5	Bromochloromethane	1	0.50	U
75-27-4	Bromodichloromethane	1	0.50	U
75-25-2	Bromoform	1	0.50	U
74-83-9	Bromomethane	1	0.50	U
75-15-0	Carbon disulfide	1	0.50	U
56-23-5	Carbon tetrachloride	1	0.50	U
108-90-7	Chlorobenzene	1	0.50	U
75-00-3	Chloroethane	1	0.50	U
67-66-3	Chloroform	1	0.50	U
74-87-3	Chloromethane	1	0.50	U
156-59-2	cis-1,2-Dichloroethylene	1	0.50	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U
124-48-1	Dibromochloromethane	1	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KWF-EB

Laboratory:	York Analytical Laboratories, Inc.			SDG:	17I0914
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41433.00-Katonah Task 0500
Matrix:	Water	Laboratory ID:	17I0914-07	File ID:	QV601466.D
Sampled:	09/22/17 14:45	Prepared:	09/27/17 17:00	Analyzed:	09/28/17 06:10
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

Batch: BI71307 Sequence: Y7I2927 Calibration: YI70003 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-09-2	Methylene chloride	1	2.0	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
100-42-5	Styrene	1	0.50	U
127-18-4	Tetrachloroethylene	1	0.50	U
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
79-01-6	Trichloroethylene	1	0.50	U
75-69-4	Trichlorofluoromethane	1	0.50	U
75-01-4	Vinyl Chloride	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4	10.0	9.90	99.0	69 - 130	
Toluene-d8	10.0	9.35	93.5	81 - 117	
p-Bromofluorobenzene	10.0	10.4	104	79 - 122	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601466.D
Acq On : 28 Sep 2017 6:10 am
InstName : MSVOA6
Operator : AS
Sample : 17I0914-07
Misc : QBQV6092717B 8260 TCL/SOM A
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Sep 29 13:18:28 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 11:12:10 2017
Response via : Initial Calibration

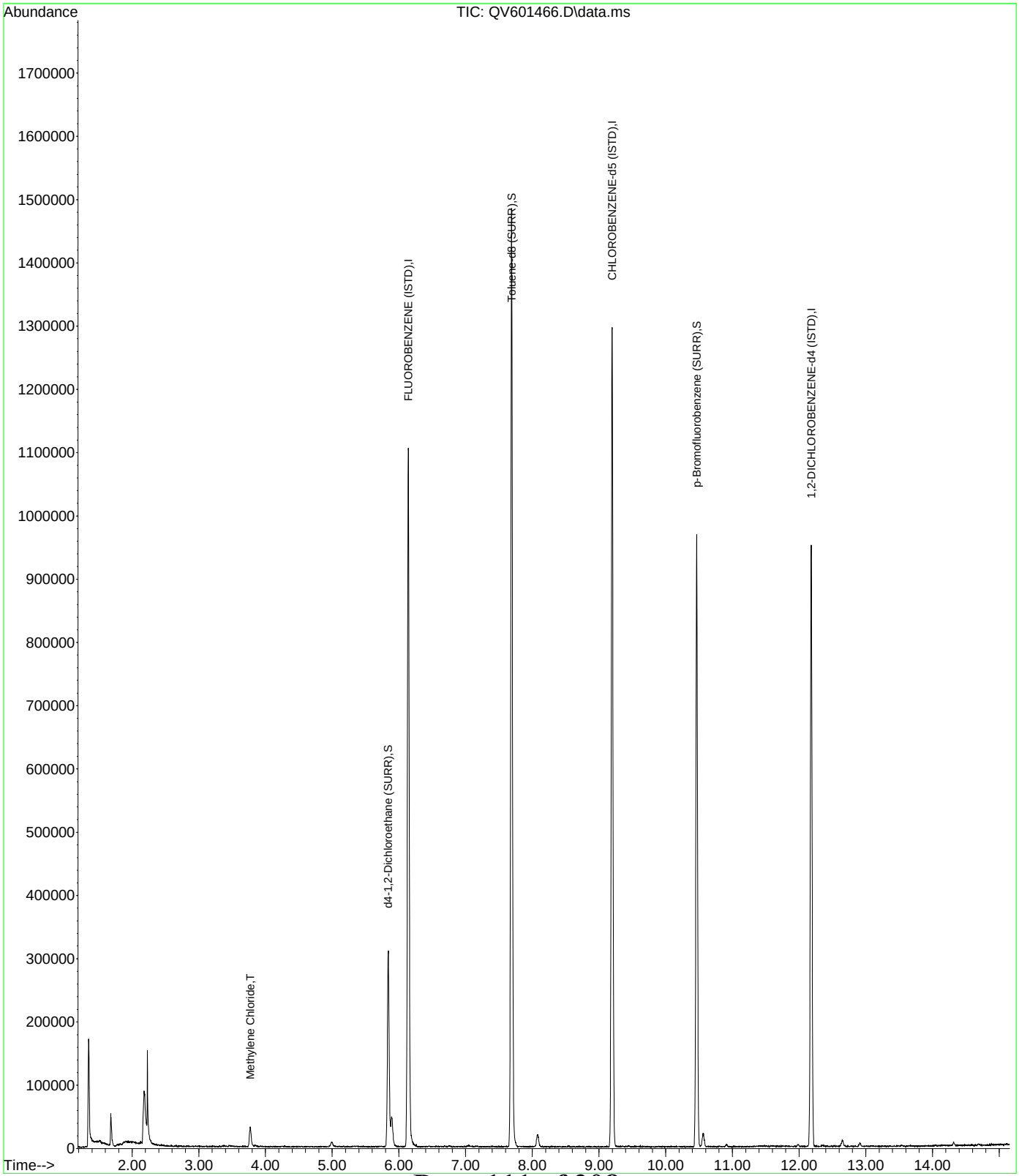
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	6.140	70	184433	10.00	ppb	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.197	117	791052	10.00	ppb	# 0.00
67) 1,2-DICHLOROBENZENE-d4...	12.180	152	264617	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.837	65	198235	9.90	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.00%			
51) Toluene-d8 (SURR)	7.689	98	1058799	9.35	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.50%			
70) p-Bromofluorobenzene (...	10.463	95	360750	10.38	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.80%			
Target Compounds						Qvalue
17) Methylene Chloride	3.769	49	14946	0.67	ppb	# 74

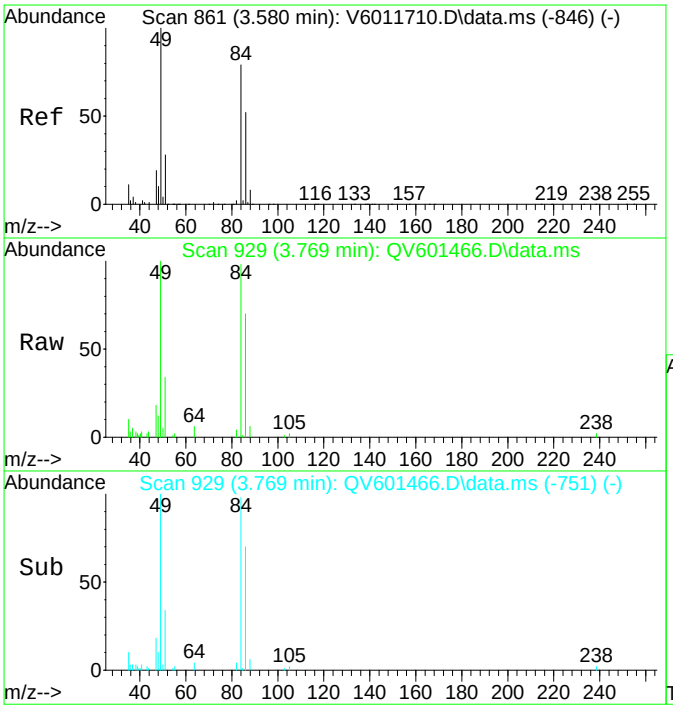
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601466.D
Acq On : 28 Sep 2017 6:10 am
InstName : MSVOA6
Operator : AS
Sample : 17I0914-07
Misc : QBQV6092717B 8260 TCL/SOM A
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Sep 29 13:18:28 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 11:12:10 2017
Response via : Initial Calibration

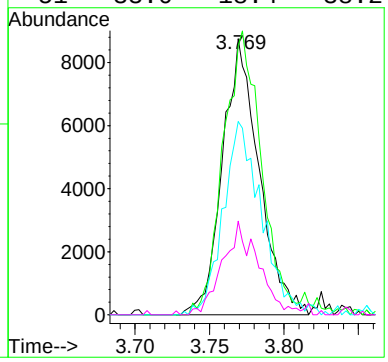




#17
Methylene Chloride
Concen: 0.67 ppb
RT: 3.769 min Scan# 929
Delta R.T. -0.006 min
Lab File: QV601466.D
Acq: 28 Sep 2017 6:10 am

Tgt Ion: 49 Resp: 14946

Ion	Ratio	Lower	Upper
49	100		
84	106.2	51.5	107.1
86	72.9	34.1	70.7#
51	33.0	18.4	38.2



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KWF-TB

Laboratory:	York Analytical Laboratories, Inc.			SDG:	17I0914
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41433.00-Katonah Task 0500
Matrix:	Water	Laboratory ID:	17I0914-08	File ID:	QV601462.D
Sampled:	09/22/17 15:00	Prepared:	09/27/17 17:00	Analyzed:	09/28/17 04:24
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BI71307	Sequence:	Y7I2927	Calibration:	YI70003
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
71-55-6	1,1,1-Trichloroethane	1	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.50	U
75-34-3	1,1-Dichloroethane	1	0.50	U
75-35-4	1,1-Dichloroethylene	1	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U
106-93-4	1,2-Dibromoethane	1	0.50	U
95-50-1	1,2-Dichlorobenzene	1	0.50	U
107-06-2	1,2-Dichloroethane	1	0.50	U
78-87-5	1,2-Dichloropropane	1	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.50	U
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	2.0	U
71-43-2	Benzene	1	0.50	U
74-97-5	Bromochloromethane	1	0.50	U
75-27-4	Bromodichloromethane	1	0.50	U
75-25-2	Bromoform	1	0.50	U
74-83-9	Bromomethane	1	0.50	U
75-15-0	Carbon disulfide	1	0.50	U
56-23-5	Carbon tetrachloride	1	0.50	U
108-90-7	Chlorobenzene	1	0.50	U
75-00-3	Chloroethane	1	0.50	U
67-66-3	Chloroform	1	0.50	U
74-87-3	Chloromethane	1	0.50	U
156-59-2	cis-1,2-Dichloroethylene	1	0.50	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U
124-48-1	Dibromochloromethane	1	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KWF-TB

Laboratory:	York Analytical Laboratories, Inc.			SDG:	17I0914
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41433.00-Katonah Task 0500
Matrix:	Water	Laboratory ID:	17I0914-08	File ID:	QV601462.D
Sampled:	09/22/17 15:00	Prepared:	09/27/17 17:00	Analyzed:	09/28/17 04:24
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BI71307	Sequence:	Y7I2927	Calibration:	YI70003
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-09-2	Methylene chloride	1	2.0	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
100-42-5	Styrene	1	0.50	U
127-18-4	Tetrachloroethylene	1	0.50	U
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
79-01-6	Trichloroethylene	1	0.50	U
75-69-4	Trichlorofluoromethane	1	0.50	U
75-01-4	Vinyl Chloride	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4	10.0	9.84	98.4	69 - 130	
Toluene-d8	10.0	9.38	93.8	81 - 117	
p-Bromofluorobenzene	10.0	10.8	108	79 - 122	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601462.D
Acq On : 28 Sep 2017 4:24 am
InstName : MSVOA6
Operator : AS
Sample : 17I0914-08
Misc : QBQV6092717B 8260 TCL/SOM A
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Sep 29 13:02:11 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 11:12:10 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	6.143	70	184900	10.00	ppb	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.195	117	796549	10.00	ppb	0.00
67) 1,2-DICHLOROBENZENE-d4...	12.180	152	260086	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.836	65	197501	9.84	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.40%			
51) Toluene-d8 (SURR)	7.689	98	1069990	9.38	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.80%			
70) p-Bromofluorobenzene (...	10.466	95	368077	10.77	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.70%			

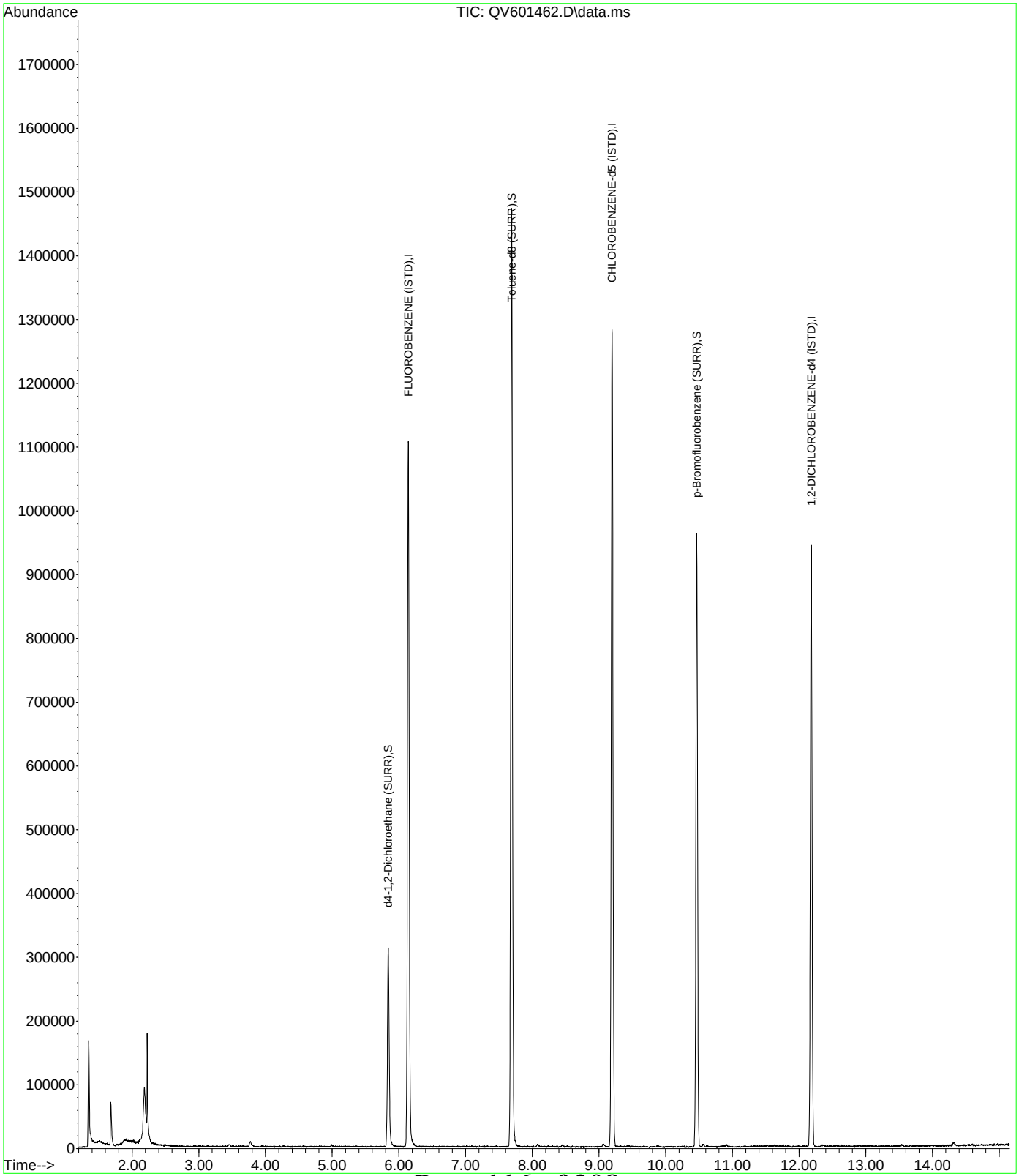
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601462.D
Acq On : 28 Sep 2017 4:24 am
InstName : MSVOA6
Operator : AS
Sample : 17I0914-08
Misc : QBQV6092717B 8260 TCL/SOM A
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Sep 29 13:02:11 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 11:12:10 2017
Response via : Initial Calibration



Response Factor Report MSVOA6

Method Path : C:\msdchem\2\METHODS\
Method File : VQ6LO006.M
Title : Volatile Organics EPA 8260C-Waters
Last Update : Tue Sep 12 13:44:47 2017
Response Via : Initial Calibration

Calibration Files
0.5=QV601040.D 2.0 =QV601041.D 4.00=QV601042.D 10.0=QV601043.D 20.0=QV601044.D 40.0=QV601045.D
80.0=QV601046.D 120.=QV601047.D 160.=QV601048.D

		Compound	0.5	2.0	4.00	10.0	20.0	40.0	80.0	120.	160.	Avg	%RSD
1)	I	FLUOROBENZENE (ISTD)	----------					ISTD					
2)	T	Dichlorodifl...	1.2242	1.2251	1.2087	1.2460	1.1816	1.2184	1.1860	1.0990	1.1076	1.189	4.40
3)	T	Chloromethane	0.9677	0.9112	0.8474	0.8809	0.8302	0.9177	1.0052	0.9873	1.0573	0.934	8.13
4)	T	Vinyl Chloride	1.4869	1.4686	1.5001	1.4771	1.4382	1.4737	1.4661	1.3891	1.4379	1.460	2.29
5)	T	Bromomethane	0.3186	0.2920	0.2857	0.3910	0.4356	0.6041	0.7293	0.7185	0.7834	0.506	40.05
6)	T	Chloroethane	0.8422	0.8286	0.8090	0.8317	0.8021	0.8219	0.8208	0.7658	0.7878	0.812	2.95
7)	T	Trichloroflu...	2.2447	2.1961	2.1602	2.1765	2.0462	2.0586	1.9925	1.8533	1.8924	2.069	6.64
8)	T	Ethanol		0.0083	0.0091	0.0059	0.0041	0.0038	0.0042	0.0044	0.0041	0.005	38.56
9)	T	Freon-113	1.4046	1.3491	1.3179	1.3713	1.3070	1.3425	1.3475	1.2766	1.3117	1.336	2.85
10)	T	1,1-Dichloro...	1.6332	1.6132	1.6583	1.6898	1.6323	1.6682	1.6448	1.5592	1.6164	1.635	2.30
11)	T	Acrolein	0.1395	0.1005	0.1187	0.1074	0.0975	0.1016	0.1120	0.1044	0.1102	0.110	11.59
12)	T	Acetone		0.4442	0.5565	0.3612	0.2067	0.1926	0.1889	0.1769	0.1778	0.288	51.13
13)	T	Iodomethane	0.2264	0.2888	0.3395	0.4811	0.5810	0.6439	0.5842	0.4993	0.5045	0.461	31.27
14)	T	Methyl Acetate	0.3930	0.3897	0.3785	0.3966	0.3639	0.3927	0.4148	0.3810	0.3849	0.388	3.61
15)	T	Carbon disul...	2.9489	2.7350	2.6904	2.8122	2.7043	2.7636	2.7509	2.5618	2.6481	2.735	3.95
16)	T	tert-Butyl A...	0.0774	0.0715	0.0747	0.0738	0.0732	0.0707	0.0818	0.0821	0.0836	0.077	6.38
17)	T	Methylene Ch...	1.2786	1.2004	1.1853	1.2031	1.1664	1.1988	1.2342	1.1592	1.2088	1.204	2.98
18)	T	Acrylonitrile	0.3125	0.2471	0.2205	0.2266	0.2211	0.2340	0.2409	0.2307	0.2399	0.241	11.64
19)	T	trans-1,2-Di...	1.5653	1.5477	1.5174	1.5854	1.5433	1.6048	1.6685	1.5542	1.6079	1.577	2.87
20)	T	tert-Butyl M...	3.0247	3.1977	3.2334	3.3010	3.2442	3.3738	3.5103	3.2749	3.3460	3.278	4.06
21)	T	1,1-Dichloro...	2.1937	2.2066	2.1928	2.2319	2.1669	2.2388	2.2389	2.0080	2.0742	2.172	3.68
22)	T	Vinyl Acetate	2.5303	2.6528	2.6894	2.8450	2.8286	2.9893	3.1240	2.9563	3.0620	2.853	6.99
23)	T	Diisopropyl ...	2.7911	3.0725	2.9920	3.1197	3.1435	3.3109	3.4705	3.3114	3.4497	3.185	6.97
24)	T	Ethyl-tert-B...	3.3079	3.5763	3.5156	3.6316	3.6282	3.7903	3.9101	3.6748	3.7738	3.645	4.80
25)	T	cis-1,2-Dich...	1.9503	1.9588	1.9078	1.9561	1.9469	2.0211	2.0775	1.9168	1.9821	1.969	2.68
26)	T	2-Butanone	0.1672	0.1142	0.1112	0.1252	0.1042	0.1134	0.1195	0.1082	0.1116	0.119	15.85
27)	T	2,2-Dichloro...	2.1379	2.1400	2.0961	2.1416	2.1452	2.2075	2.2519	2.0737	2.1136	2.145	2.55
28)	T	Tetrahydrofuran	0.2661	0.1535	0.1807	0.1646	0.1558	0.1654	0.1792	0.1611	0.1687	0.177	19.52
29)	T	Bromochlorom...	0.7474	0.7509	0.7278	0.7365	0.7037	0.7073	0.7115	0.6589	0.6825	0.714	4.25
30)	T	Chloroform	2.4725	2.5217	2.4203	2.5133	2.4681	2.5300	2.5793	2.3987	2.4216	2.481	2.43
31)	T	1,1,1-Trichl...	2.1454	2.1819	2.1706	2.2806	2.2063	2.3001	2.3256	2.1947	2.2750	2.231	2.90
32)	T	Cyclohexane	1.9406	1.9323	1.9242	1.9943	1.9178	1.9987	2.0478	1.9274	2.0193	1.967	2.46
33)	T	1,1-Dichloro...	1.9255	1.9298	1.8506	1.9799	1.9056	1.9884	2.0370	1.9161	1.9958	1.948	2.93
34)	S	d4-1,2-Dichl...	1.0056	1.0685	1.0848	1.0830	1.0893	1.1035	1.1251	1.0954	1.1116	1.085	3.15
35)	T	Carbon Tetra...	1.7719	1.8510	1.8125	1.9304	1.8997	1.9910	2.0388	1.9180	1.9905	1.912	4.62
36)	T	tert-Amyl al...	0.0621	0.0666	0.0644	0.0678	0.0684	0.0708	0.0791	0.0774	0.0773	0.070	8.71
37)	T	1,2-Dichloro...	1.3038	1.3513	1.4075	1.4663	1.4150	1.4683	1.5194	1.4185	1.4585	1.423	4.59
38)	T	Benzene	5.9827	5.6718	5.6010	5.7708	5.5704	5.7058	5.7228	5.2438	5.1050	5.597	4.81
39)	T	tert-Amyl me...	3.4051	3.7280	3.5799	3.7579	3.7145	3.8498	3.9785	3.7026	3.7709	3.721	4.32
40)	I	CHLOROBENZENE-d5 (...	----------					ISTD					

Method Path : C:\msdchem\2\METHODS\
Method File : VQ6LO006.M
Title : Volatile Organics EPA 8260C-Waters

41)	T	Trichloroeth...	0.3927	0.3762	0.3633	0.3817	0.3695	0.3851	0.3995	0.3927	0.4133	0.386	4.02
42)	T	Methyl Cyclo...	0.6601	0.6357	0.6331	0.6640	0.6324	0.6639	0.6922	0.6638	0.7051	0.661	3.85
43)	T	Methyl Metha...	0.1764	0.1453	0.1535	0.1651	0.1607	0.1714	0.1813	0.1761	0.1812	0.168	7.56
44)	T	Dibromomethane	0.1815	0.1754	0.1756	0.1790	0.1783	0.1839	0.1938	0.1861	0.1869	0.182	3.30
45)	T	Bromodichlor...	0.4248	0.4271	0.4158	0.4470	0.4416	0.4668	0.4862	0.4727	0.4912	0.453	6.13
46)	T	1,2-Dichloro...	0.3213	0.3054	0.3063	0.3190	0.3123	0.3272	0.3407	0.3358	0.3500	0.324	4.79
47)	T	1,4-Dioxane	0.0016	0.0013	0.0013	0.0013	0.0012	0.0012	0.0015	0.0016	0.0014	0.001	10.10
48)	T	2-Chloroethy...	0.1174	0.1156	0.1164	0.1194	0.1152	0.1200	0.1249	0.1160	0.1191	0.118	2.60
49)	T	cis-1,3-Dich...	0.5088	0.5077	0.5119	0.5516	0.5483	0.5697	0.5941	0.5701	0.5839	0.550	6.05
50)	T	4-Methyl-2-P...	0.1449	0.1486	0.1407	0.1515	0.1523	0.1579	0.1650	0.1569	0.1586	0.153	4.92
51)	S	Toluene-d8 (...	1.4330	1.4085	1.4042	1.4108	1.4146	1.4242	1.4525	1.4720	1.4640	1.432	1.78
52)	T	Toluene	1.8970	1.6789	1.6080	1.6391	1.5964	1.6372	1.6520	1.5379	1.4037	1.628	8.00
53)	T	trans-1,3-Di...	0.4140	0.4335	0.4360	0.4614	0.4606	0.4808	0.5018	0.4788	0.4891	0.462	6.29
54)	T	1,1,2-Trichl...	0.2702	0.2499	0.2531	0.2641	0.2556	0.2620	0.2681	0.2571	0.2624	0.260	2.62
55)	T	1,3-Dichloro...	0.4204	0.4241	0.4218	0.4418	0.4288	0.4396	0.4505	0.4281	0.4328	0.432	2.35
56)	T	Tetrachloroe...	0.3654	0.3505	0.3420	0.3614	0.3475	0.3571	0.3701	0.3571	0.3730	0.358	2.90
57)	T	2-Hexanone	0.1044	0.1052	0.1124	0.1130	0.1106	0.1114	0.1148	0.1094	0.1093	0.110	3.12
58)	T	Dibromochlor...	0.2518	0.2507	0.2629	0.2823	0.2778	0.2900	0.2987	0.2867	0.2901	0.277	6.34
59)	T	1,2-Dibromoe...	0.2429	0.2204	0.2357	0.2454	0.2360	0.2413	0.2438	0.2296	0.2307	0.236	3.48
60)	T	Chlorobenzene	1.0097	1.0026	0.9865	1.0095	0.9808	1.0007	1.0046	0.9497	0.9551	0.989	2.31
61)	T	1,1,1,2-tetr...	0.4441	0.2963	0.2986	0.3197	0.3121	0.3240	0.3331	0.3217	0.3303	0.331	13.36
62)	T	Ethyl Benzene	1.8475	1.7408	1.7258	1.8207	1.7597	1.8132	1.7857	1.5992	1.4024	1.722	8.13
63)	T	p- & m-Xylenes	1.4486	1.3445	1.3245	1.3887	1.3521	1.3769	1.2760	0.9918	0.8345	1.260	16.34
64)	T	o-Xylene	1.4183	1.3480	1.3452	1.4032	1.3554	1.3949	1.4071	1.3295	1.2973	1.367	3.01
65)	T	Styrene	0.9634	0.9155	0.9272	0.9951	0.9748	1.0165	1.0451	0.9961	1.0100	0.983	4.28
66)	T	Bromofrom	0.1359	0.1251	0.1307	0.1380	0.1390	0.1471	0.1529	0.1450	0.1480	0.140	6.36
67)	T	1,2-DICHLOROBENZEN...	----------	----------	----------	----------	----------	ISTD	----------	----------	----------	----------	----------
68)	T	p-Ethyltoluene	5.6466	5.0420	4.7826	5.0540	4.7768	4.8137	4.6562	4.1474	3.7010	4.736	11.70
69)	T	Isopropylben...	5.8310	5.2481	5.1080	5.3281	5.0125	4.9611	4.7118	4.1027	3.6000	4.878	13.73
70)	S	p-Bromofluor...	1.4338	1.3744	1.3536	1.3412	1.3253	1.3077	1.2786	1.2251	1.1852	1.314	5.79
71)	T	1,1,2,2-Tetr...	0.9276	0.8088	0.8048	0.8310	0.7824	0.7881	0.7943	0.7238	0.7174	0.798	7.73
72)	T	Bromobenzene	1.8035	1.6800	1.6195	1.6944	1.6251	1.6279	1.6214	1.4904	1.4904	1.628	5.98
73)	T	trans-1,4-Di...	0.9432	0.8688	0.8543	0.9141	0.8667	0.8697	0.8873	0.8085	0.8024	0.868	5.18
74)	T	1,2,3-Trichl...	0.2488	0.2566	0.2398	0.2397	0.2239	0.2235	0.2201	0.2005	0.1965	0.228	9.02
75)	T	n-Propylbenzene	6.8584	6.2056	6.0261	6.3010	5.8940	5.8657	5.5352	4.5675	3.8627	5.680	16.25
76)	T	2-Chlorotoluene	4.2816	4.0059	3.8886	3.9971	3.8495	3.8901	3.8142	3.4538	3.3035	3.832	7.66
77)	T	4-Chlorotoluene	3.8646	3.5625	3.4160	3.5879	3.4546	3.4298	3.3840	3.0510	3.0312	3.420	7.57
78)	T	1,3,5-Trimet...	4.5287	4.0690	3.9829	4.2017	3.9465	3.9563	3.8999	3.4949	3.2061	3.921	9.75
79)	T	tert-Butylbe...	3.9026	3.3800	3.2965	3.4150	3.1961	3.2058	3.1506	2.8662	2.8852	3.255	9.51
80)	T	1,2,4-Trimet...	5.0237	4.1081	3.9897	4.1957	3.9851	4.0520	3.9903	3.5874	3.2721	4.023	11.78
81)	T	sec-Butylben...	6.1161	5.1942	4.9990	5.3031	4.9422	4.9597	4.7891	4.1827	3.6515	4.904	14.11
82)	T	1,3-Dichloro...	2.0187	1.9416	1.8535	1.9516	1.8411	1.8857	1.9182	1.7719	1.8338	1.891	3.95
83)	T	p-Isopropylt...	4.8075	4.0899	3.9770	4.2913	4.0653	4.1646	4.1166	3.7040	3.4145	4.070	9.42
84)	T	1,4-Dichloro...	2.0346	1.8570	1.8157	1.8901	1.8013	1.8178	1.8130	1.6704	1.7065	1.823	5.75
85)	T	1,2,3-Trimet...	6.1495	4.1081	4.0816	4.2502	4.0022	4.0704	4.0005	3.6154	3.3339	4.179	18.93
86)	T	p-Diethylben...	2.1441	2.1919	2.1380	2.2760	2.1897	2.2479	2.2716	2.0894	2.1833	2.192	2.90
87)	T	1,2-Dichloro...	1.7586	1.6538	1.6190	1.6806	1.6008	1.6051	1.6227	1.4867	1.5165	1.616	5.04
88)	T	n-Butylbenzene	4.5927	4.5801	4.4883	4.7875	4.5571	4.6648	4.6562	4.1642	3.8870	4.486	6.30
89)	T	1,2-Dibromo-...	0.1261	0.1042	0.0976	0.1057	0.1029	0.1059	0.1120	0.1018	0.1003	0.106	7.97
90)	T	1,2,4,5-Tetr...	3.0928	3.0784	2.9940	3.2723	3.1553	3.2563	3.2568	2.9573	2.9297	3.110	4.28

Method Path : C:\msdchem\2\METHODS\
Method File : VQ6LO006.M
Title : Volatile Organics EPA 8260C-Waters

91)	T	1,2,4-Trichl...	0.6900	0.6986	0.7141	0.7512	0.7206	0.7511	0.7648	0.6924	0.6999	0.720	3.96
92)	T	Hexachloro-1...	0.2667	0.2622	0.2581	0.2708	0.2626	0.2879	0.2746	0.2518	0.2666	0.267	3.89
93)	T	Naphthalene		3.6139	2.8584	2.1338	1.6329	1.5950	1.5966	1.4168	1.3699	2.027	39.78
94)	T	1,2,3-Trichl...	0.5267	0.4659	0.5199	0.5343	0.5040	0.5262	0.5390	0.4844	0.4842	0.509	5.09

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\091117A\
Data File : QV601040.D
Acq On : 11 Sep 2017 2:26 pm
InstName : MSVOA6
Operator : AS
Sample : SEQ-CAL1
Misc : QBQV6091117A ICAL 0.5ppb AQU
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 12 11:12:01 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO005.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Aug 02 15:35:29 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.140	70	193436	10.00	ppb		0.00
40) CHLOROBENZENE-d5 (ISTD)	9.197	117	765861	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	12.183	152	228212	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.842	65	194525	8.81	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 88.10%				
51) Toluene-d8 (SURR)	7.690	98	1097499	10.97	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.70%				
70) p-Bromofluorobenzene (...	10.466	95	327206	15.02	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 150.20%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.530	85	11840	0.53	ppb	#	93
3) Chloromethane	1.749	50	9359	0.32	ppb		95
4) Vinyl Chloride	1.861	62	14381	0.55	ppb		100
5) Bromomethane	2.250	94	3081m	0.20	ppb		
6) Chloroethane	2.373	64	8146m	0.49	ppb		
7) Trichlorofluoromethane	2.656	101	21710	0.51	ppb		100
8) Ethanol	2.960	45	13372m	Below Cal			
9) Freon-113	3.224	101	13585	0.54	ppb	#	68
10) 1,1-Dichloroethylene	3.235	61	15796	0.42	ppb	#	73
11) Acrolein	3.177	56	1349m	0.67	ppb		
12) Acetone	3.346	43	11610	2.04	ppb		98
14) Methyl Acetate	3.683	43	3801m	0.29	ppb		
15) Carbon disulfide	3.461	76	28521	0.53	ppb		100
16) tert-Butyl Alcohol (TBA)	3.928	59	749m	0.39	ppb		
17) Methylene Chloride	3.775	49	12366m	0.34	ppb		
18) Acrylonitrile	4.053	53	3022m	0.53	ppb		
19) trans-1,2-Dichloroethy...	4.036	61	15139	0.43	ppb		91
20) tert-Butyl Methyl Ethe...	4.031	73	29254	0.46	ppb	#	94
21) 1,1-Dichloroethane	4.470	63	21217	0.47	ppb		97
22) Vinyl Acetate	4.509	43	24473m	0.26	ppb		
23) Diisopropyl ether (DIPE)	4.507	45	26995m	0.29	ppb		
24) Ethyl-tert-Butyl ether...	4.857	59	31993	0.42	ppb	#	81
25) cis-1,2-Dichloroethylene	5.038	61	18863	0.43	ppb		94
26) 2-Butanone	5.085	72	1617m	0.73	ppb		
27) 2,2-Dichloropropane	5.024	77	20677	0.52	ppb	#	83
28) Tetrahydrofuran	5.355	42	2574m	0.44	ppb		
29) Bromochloromethane	5.286	49	7229m	0.35	ppb		
30) Chloroform	5.358	83	23914	0.50	ppb	#	70
31) 1,1,1-Trichloroethane	5.505	97	20750	0.49	ppb	#	92
32) Cyclohexane	5.542	56	18769	0.42	ppb	#	80
33) 1,1-Dichloropropylene	5.664	75	18623	0.51	ppb		86
35) Carbon Tetrachloride	5.658	117	17137	0.46	ppb	#	95
36) tert-Amyl alcohol (TAA)	5.903	59	6011	3.95	ppb	#	68
37) 1,2-Dichloroethane	5.914	62	12610	0.40	ppb		99
38) Benzene	5.873	78	57863	0.57	ppb	#	1
39) tert-Amyl methyl ether...	5.959	73	32933m	0.46	ppb		
41) Trichloroethylene	6.496	95	15039	0.51	ppb		95
42) Methyl Cyclohexane	6.649	83	25278	0.49	ppb		86
43) Methyl Methacrylate	6.821	69	6754	0.45	ppb	#	69
44) Dibromomethane	6.860	93	6950	0.47	ppb		95
45) Bromodichloromethane	7.011	83	16268	0.44	ppb	#	88
46) 1,2-Dichloropropane	6.732	63	12305	0.42	ppb		99
47) 1,4-Dioxane	6.891	88	1188m	9.07	ppb		
48) 2-Chloroethyl vinyl ether	7.283	63	4494	0.36	ppb		99
49) cis-1,3-Dichloropropene	7.442	75	19483	0.45	ppb		93
50) 4-Methyl-2-Pentanone	7.587	43	5549m	0.25	ppb		
52) Toluene	7.759	91	72641	0.57	ppb		98
53) trans-1,3-Dichloropropene	8.004	75	15854	0.43	ppb		96

Data Path : C:\msdchem\2\DATA\091117A\
Data File : QV601040.D
Acq On : 11 Sep 2017 2:26 pm
InstName : MSVOA6
Operator : AS
Sample : SEQ-CAL1
Misc : QBQV6091117A ICAL 0.5ppb AQU
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 12 11:12:01 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO005.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Aug 02 15:35:29 2017
Response via : Initial Calibration

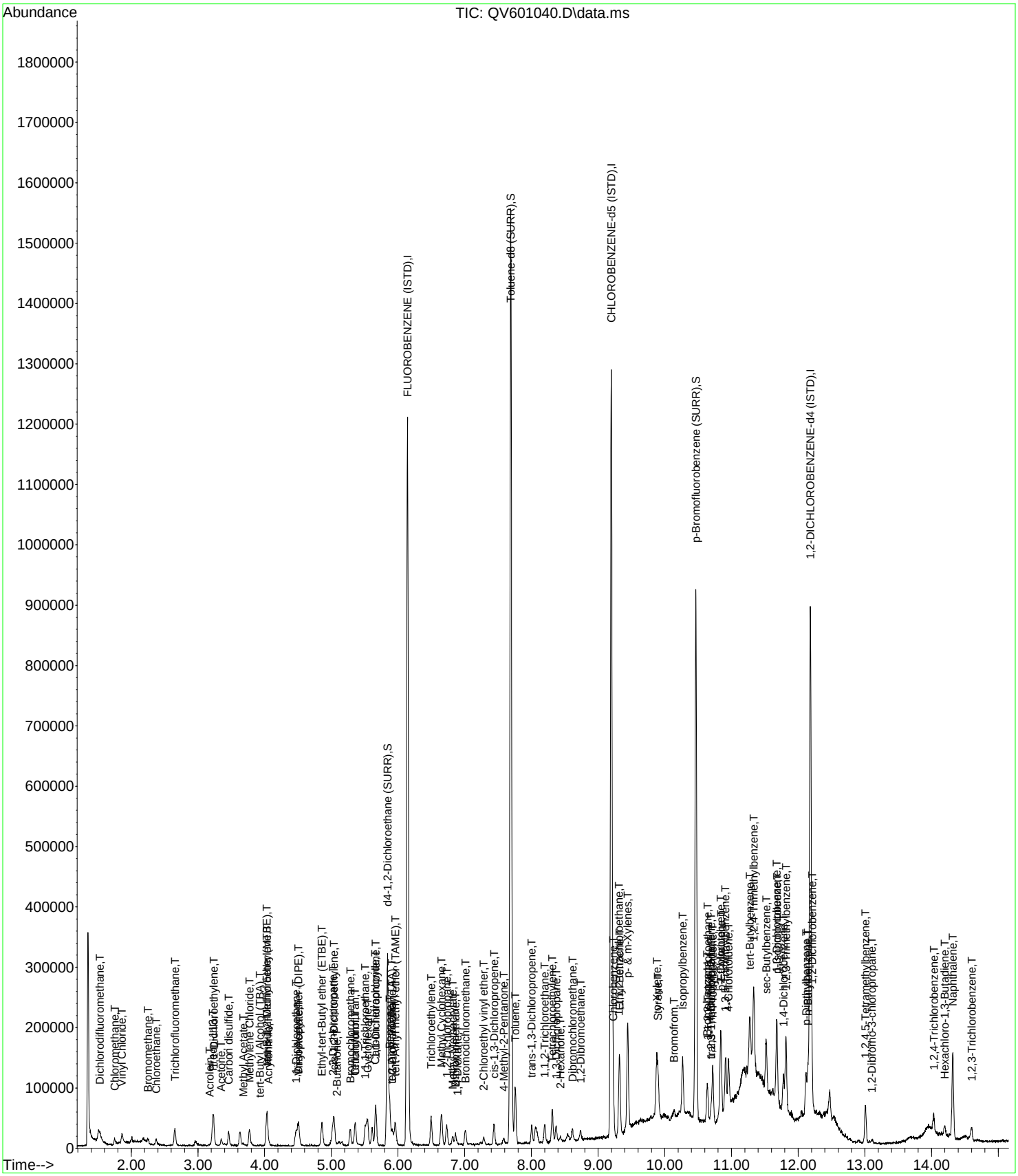
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) 1,1,2-Trichloroethane	8.196	97	10347	0.53	ppb		92
55) 1,3-Dichloropropane	8.371	76	16100	0.47	ppb	#	84
56) Tetrachloroethylene	8.310	166	13994	0.40	ppb		97
57) 2-Hexanone	8.435	43	3999m	0.26	ppb		
58) Dibromochloromethane	8.616	129	9643	0.38	ppb	#	91
59) 1,2-Dibromoethane	8.738	107	9303	0.49	ppb		98
60) Chlorobenzene	9.228	112	38664	0.48	ppb	#	91
61) 1,1,1,2-tetrachloroethane	9.314	131	17006m	0.55	ppb		
62) Ethyl Benzene	9.323	91	70746	0.51	ppb		98
63) p- & m-Xylenes	9.442	91	110941	1.03	ppb		96
64) o-Xylene	9.879	91	54310	0.50	ppb		100
65) Styrene	9.899	104	36893	0.49	ppb	#	98
66) Bromofrom	10.138	173	5204m	0.35	ppb		
68) p-Ethyltoluene	10.845	105	64431m	0.77	ppb		
69) Isopropylbenzene	10.266	105	66535	0.76	ppb		94
71) 1,1,2,2-Tetrachloroethane	10.644	83	10585	0.76	ppb	#	92
72) Bromobenzene	10.636	77	20579	0.74	ppb		85
73) trans-1,4-Dichloro-2-b...	10.692	75	10763m	0.67	ppb		
74) 1,2,3-Trichloropropane	10.692	110	2839	0.67	ppb	#	76
75) n-Propylbenzene	10.719	91	78258	0.74	ppb		96
76) 2-Chlorotoluene	10.839	91	48856	0.71	ppb		99
77) 4-Chlorotoluene	10.953	91	44097	0.73	ppb		100
78) 1,3,5-Trimethylbenzene	10.909	105	51675m	0.73	ppb		
79) tert-Butylbenzene	11.273	119	44531	0.73	ppb		97
80) 1,2,4-Trimethylbenzene	11.334	105	57324m	0.79	ppb		
81) sec-Butylbenzene	11.521	105	69788	0.77	ppb		97
82) 1,3-Dichlorobenzene	11.676	146	23035	0.60	ppb		89
83) p-Isopropyltoluene	11.682	119	54857	0.70	ppb	#	93
84) 1,4-Dichlorobenzene	11.779	146	23216m	0.62	ppb		
85) 1,2,3-Trimethylbenzene	11.818	105	70170m	0.89	ppb		
86) p-Diethylbenzene	12.119	105	24465	0.60	ppb	#	77
87) 1,2-Dichlorobenzene	12.208	146	20067	0.58	ppb	#	62
88) n-Butylbenzene	12.147	91	52406	0.60	ppb		88
89) 1,2-Dibromo-3-chloropr...	13.104	75	1439m	0.57	ppb		
90) 1,2,4,5-Tetramethylben...	13.006	119	35291	0.53	ppb		94
91) 1,2,4-Trichlorobenzene	14.036	180	7873	0.32	ppb	#	94
92) Hexachloro-1,3-Butadiene	14.194	225	3043	0.22	ppb	#	63
93) Naphthalene	14.317	128	115193	2.25	ppb		98
94) 1,2,3-Trichlorobenzene	14.601	180	6010m	0.28	ppb		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\091117A\
Data File : QV601040.D
Acq On : 11 Sep 2017 2:26 pm
InstName : MSVOA6
Operator : AS
Sample : SEQ-CAL1
Misc : QBQV6091117A ICAL 0.5ppb AQU
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 12 11:12:01 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO005.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Aug 02 15:35:29 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\091117A\
Data File : QV601041.D
Acq On : 11 Sep 2017 2:52 pm
InstName : MSVOA6
Operator : AS
Sample : SEQ-CAL2
Misc : QBQV6091117A ICAL 2ppb AQU
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 12 10:26:07 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon Sep 11 19:06:29 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.140	70	183896	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.198	117	752013	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	12.183	152	245761	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.839	65	196498	9.47	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.70%				
51) Toluene-d8 (SURR)	7.692	98	1059183	10.65	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.50%				
70) p-Bromofluorobenzene (...	10.466	95	337771	13.72	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 137.20%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.530	85	45057	2.16	ppb	#	85
3) Chloromethane	1.750	50	33515	1.29	ppb		94
4) Vinyl Chloride	1.858	62	54014	2.23	ppb		98
5) Bromomethane	2.248	94	10741m	0.83	ppb		
6) Chloroethane	2.370	64	30476	1.97	ppb		98
7) Trichlorofluoromethane	2.654	101	80771	2.06	ppb		99
8) Ethanol	2.960	45	15284m	Below Cal			
9) Freon-113	3.224	101	49620	2.08	ppb	#	79
10) 1,1-Dichloroethylene	3.235	61	59333	1.72	ppb	#	76
11) Acrolein	3.180	56	3697m	1.86	ppb		
12) Acetone	3.349	43	16339m	3.01	ppb		
13) Iodomethane	3.399	142	10622m	0.59	ppb		
14) Methyl Acetate	3.678	43	14333	1.24	ppb		98
15) Carbon disulfide	3.458	76	100591	1.99	ppb		100
16) tert-Butyl Alcohol (TBA)	3.931	59	2629m	1.55	ppb		
17) Methylene Chloride	3.772	49	44149	1.42	ppb		78
18) Acrylonitrile	4.056	53	9089	1.70	ppb	#	60
19) trans-1,2-Dichloroethy...	4.034	61	56924	1.77	ppb		92
20) tert-Butyl Methyl Ethe...	4.031	73	117610	1.97	ppb		99
21) 1,1-Dichloroethane	4.473	63	81157	1.91	ppb		99
22) Vinyl Acetate	4.512	43	97568	1.30	ppb		100
23) Diisopropyl ether (DIPE)	4.498	45	113005	1.36	ppb	#	88
24) Ethyl-tert-Butyl ether...	4.857	59	131534	1.87	ppb		94
25) cis-1,2-Dichloroethylene	5.041	61	72043	1.80	ppb		94
26) 2-Butanone	5.080	72	4201m	1.99	ppb		
27) 2,2-Dichloropropane	5.024	77	78708	2.12	ppb	#	83
28) Tetrahydrofuran	5.350	42	5645	1.07	ppb	#	68
29) Bromochloromethane	5.283	49	27617	1.50	ppb		89
30) Chloroform	5.358	83	92746	2.07	ppb	#	96
31) 1,1,1-Trichloroethane	5.508	97	80249	2.01	ppb	#	73
32) Cyclohexane	5.545	56	71070	1.75	ppb		88
33) 1,1-Dichloropropylene	5.670	75	70975	2.07	ppb		84
35) Carbon Tetrachloride	5.659	117	68080	1.89	ppb		99
36) tert-Amyl alcohol (TAA)	5.898	59	24482	17.66	ppb	#	66
37) 1,2-Dichloroethane	5.912	62	49701	1.70	ppb		99
38) Benzene	5.873	78	208606	2.17	ppb	#	79
39) tert-Amyl methyl ether...	5.956	73	137114	2.08	ppb	#	89
41) Trichloroethylene	6.502	95	56579	1.96	ppb		94
42) Methyl Cyclohexane	6.655	83	95607	1.90	ppb		86
43) Methyl Methacrylate	6.822	69	21846	1.53	ppb	#	69
44) Dibromomethane	6.866	93	26377	1.83	ppb		95
45) Bromodichloromethane	7.011	83	64230	1.79	ppb		98
46) 1,2-Dichloropropane	6.733	63	45935	1.66	ppb	#	90
47) 1,4-Dioxane	6.888	88	3901m	30.35	ppb		
48) 2-Chloroethyl vinyl ether	7.283	63	17387	1.53	ppb		99
49) cis-1,3-Dichloropropene	7.439	75	76354	1.82	ppb		91
50) 4-Methyl-2-Pentanone	7.578	43	22345m	1.14	ppb		
52) Toluene	7.759	91	252504	2.01	ppb		98

Data Path : C:\msdchem\2\DATA\091117A\
Data File : QV601041.D
Acq On : 11 Sep 2017 2:52 pm
InstName : MSVOA6
Operator : AS
Sample : SEQ-CAL2
Misc : QBQV6091117A ICAL 2ppb AQU
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 12 10:26:07 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon Sep 11 19:06:29 2017
Response via : Initial Calibration

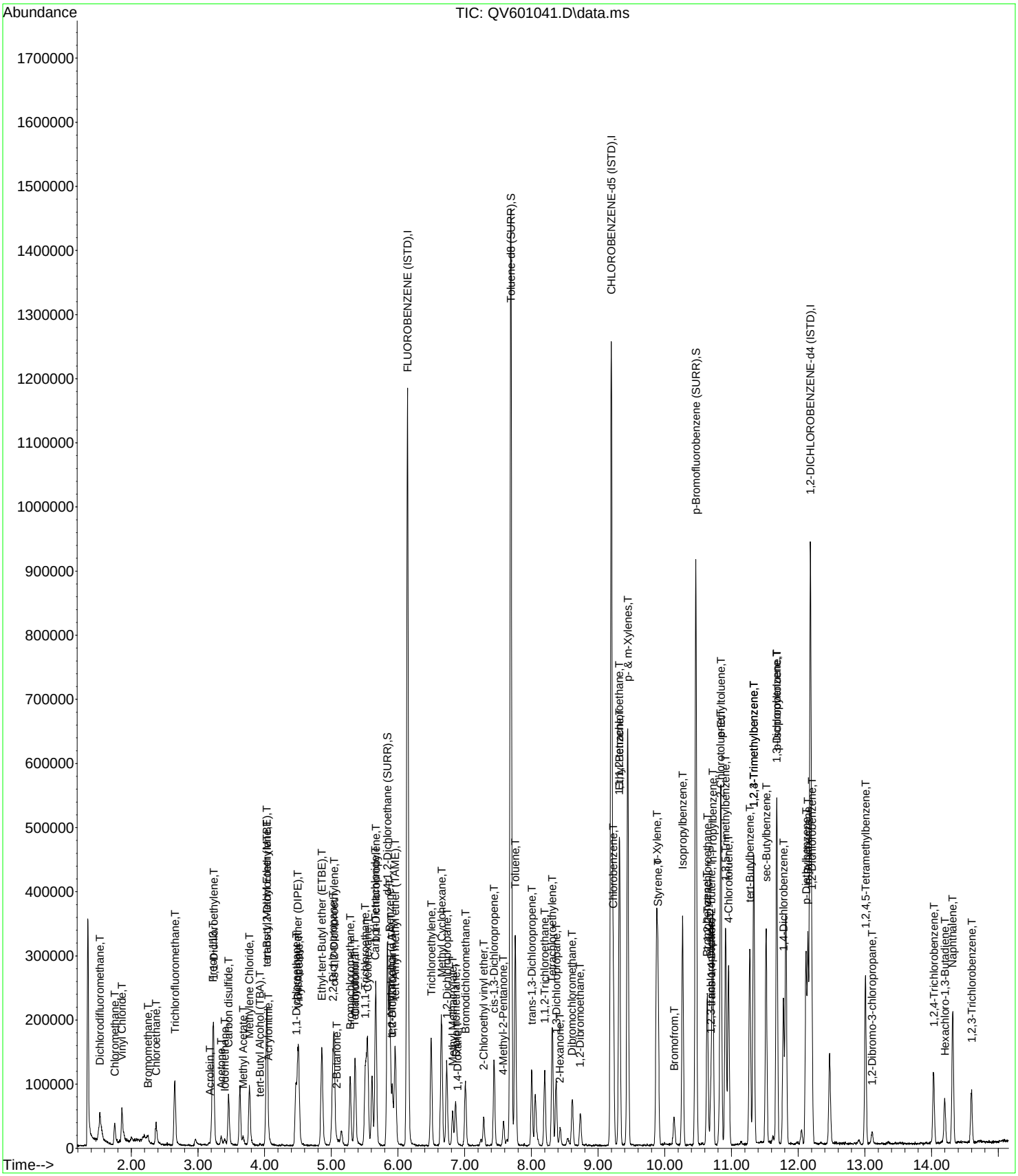
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	8.007	75	65193	1.83	ppb	#	89
54) 1,1,2-Trichloroethane	8.199	97	37587	1.96	ppb		90
55) 1,3-Dichloropropane	8.371	76	63781	1.94	ppb	#	83
56) Tetrachloroethylene	8.310	166	52718	1.55	ppb		97
57) 2-Hexanone	8.427	43	15827	1.15	ppb	#	74
58) Dibromochloromethane	8.608	129	37703	1.56	ppb		96
59) 1,2-Dibromoethane	8.730	107	33146	1.80	ppb		86
60) Chlorobenzene	9.228	112	150794	1.94	ppb		96
61) 1,1,1,2-tetrachloroethane	9.317	131	44565	1.47	ppb	#	70
62) Ethyl Benzene	9.320	91	261822	1.92	ppb		98
63) p- & m-Xylenes	9.445	91	404430	3.82	ppb		96
64) o-Xylene	9.879	91	202741	1.90	ppb		99
65) Styrene	9.899	104	137701	1.85	ppb	#	77
66) Bromofrom	10.141	173	18808	1.31	ppb		97
68) p-Ethyltoluene	10.842	105	247824	2.64	ppb	#	91
69) Isopropylbenzene	10.266	105	257958	2.64	ppb		94
71) 1,1,2,2-Tetrachloroethane	10.642	83	39755	2.52	ppb	#	96
72) Bromobenzene	10.633	77	82574	2.65	ppb		86
73) trans-1,4-Dichloro-2-b...	10.697	75	42701	2.47	ppb	#	77
74) 1,2,3-Trichloropropane	10.689	110	12612	2.80	ppb	#	78
75) n-Propylbenzene	10.719	91	305018	2.59	ppb		97
76) 2-Chlorotoluene	10.834	91	196897	2.57	ppb		100
77) 4-Chlorotoluene	10.953	91	175107	2.59	ppb		100
78) 1,3,5-Trimethylbenzene	10.911	105	199998	2.54	ppb	#	98
79) tert-Butylbenzene	11.273	119	166132	2.43	ppb		98
80) 1,2,4-Trimethylbenzene	11.334	105	201921	2.51	ppb	#	83
81) sec-Butylbenzene	11.521	105	255305	2.50	ppb		99
82) 1,3-Dichlorobenzene	11.677	146	95432	2.26	ppb		95
83) p-Isopropyltoluene	11.679	119	201030	2.30	ppb		98
84) 1,4-Dichlorobenzene	11.780	146	91274	2.21	ppb		94
85) 1,2,3-Trimethylbenzene	11.334	105	201921	2.36	ppb		92
86) p-Diethylbenzene	12.119	105	107736	2.42	ppb	#	33
87) 1,2-Dichlorobenzene	12.205	146	81289	2.17	ppb		96
88) n-Butylbenzene	12.147	91	225124	2.35	ppb		87
89) 1,2-Dibromo-3-chloropr...	13.107	75	5122m	1.99	ppb		
90) 1,2,4,5-Tetramethylben...	13.009	119	151309	2.08	ppb		97
91) 1,2,4-Trichlorobenzene	14.033	180	34340	1.37	ppb		95
92) Hexachloro-1,3-Butadiene	14.203	225	12888	0.90	ppb		88
93) Naphthalene	14.314	128	177630	3.23	ppb		98
94) 1,2,3-Trichlorobenzene	14.601	180	22901	1.04	ppb		92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\091117A\
Data File : QV601041.D
Acq On : 11 Sep 2017 2:52 pm
InstName : MSVOA6
Operator : AS
Sample : SEQ-CAL2
Misc : QBQV6091117A ICAL 2ppb AQU
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 12 10:26:07 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon Sep 11 19:06:29 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\091117A\
Data File : QV601042.D
Acq On : 11 Sep 2017 3:18 pm
InstName : MSVOA6
Operator : AS
Sample : SEQ-CAL3
Misc : QBQV6091117A ICAL 4ppb AQU
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 12 11:01:11 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon Sep 11 19:09:01 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.143	70	187737	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.198	117	771037	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	12.183	152	258573	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.845	65	203658	9.66	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.60%				
51) Toluene-d8 (SURR)	7.692	98	1082666	10.51	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.10%				
70) p-Bromofluorobenzene (...	10.463	95	350002	12.97	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 129.70%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.532	85	90768	4.26	ppb		99
3) Chloromethane	1.752	50	63634	2.58	ppb		96
4) Vinyl Chloride	1.861	62	112650	4.57	ppb		98
5) Bromomethane	2.247	94	21454m	1.82	ppb		
6) Chloroethane	2.375	64	60755	3.93	ppb		99
7) Trichlorofluoromethane	2.654	101	162221	4.12	ppb		99
8) Ethanol	2.954	45	34331m	119.06	ppb		
9) Freon-113	3.221	101	98965	4.09	ppb		93
10) 1,1-Dichloroethylene	3.232	61	124529	3.65	ppb	#	81
11) Acrolein	3.171	56	8914	4.41	ppb		95
12) Acetone	3.341	43	41788	7.55	ppb		97
13) Iodomethane	3.405	142	25496m	1.49	ppb		
14) Methyl Acetate	3.675	43	28420m	2.60	ppb		
15) Carbon disulfide	3.463	76	202033	3.93	ppb		100
16) tert-Butyl Alcohol (TBA)	3.936	59	5606m	3.42	ppb		
17) Methylene Chloride	3.775	49	89009	2.96	ppb	#	75
18) Acrylonitrile	4.050	53	16560	3.14	ppb	#	64
19) trans-1,2-Dichloroethy...	4.036	61	113946	3.55	ppb		91
20) tert-Butyl Methyl Ethe...	4.028	73	242812	4.01	ppb	#	93
21) 1,1-Dichloroethane	4.468	63	164665	3.86	ppb		99
22) Vinyl Acetate	4.512	43	201958	2.80	ppb	#	99
23) Diisopropyl ether (DIPE)	4.501	45	224685	2.77	ppb		95
24) Ethyl-tert-Butyl ether...	4.857	59	264002	3.72	ppb	#	86
25) cis-1,2-Dichloroethylene	5.044	61	143263	3.57	ppb		94
26) 2-Butanone	5.074	72	8350m	3.92	ppb		
27) 2,2-Dichloropropane	5.024	77	157407	4.18	ppb	#	83
28) Tetrahydrofuran	5.344	42	13572	2.67	ppb		90
29) Bromochloromethane	5.286	49	54656	3.07	ppb		89
30) Chloroform	5.358	83	181753	3.97	ppb		99
31) 1,1,1-Trichloroethane	5.514	97	163001	4.01	ppb		99
32) Cyclohexane	5.542	56	144494	3.59	ppb		87
33) 1,1-Dichloropropylene	5.670	75	138972	4.02	ppb		81
35) Carbon Tetrachloride	5.661	117	136108	3.71	ppb		99
36) tert-Amyl alcohol (TAA)	5.895	59	48389	34.97	ppb		97
37) 1,2-Dichloroethane	5.914	62	105694	3.67	ppb		98
38) Benzene	5.876	78	420607	4.27	ppb	#	88
39) tert-Amyl methyl ether...	5.956	73	268833	3.99	ppb		98
41) Trichloroethylene	6.499	95	112040	3.82	ppb		95
42) Methyl Cyclohexane	6.655	83	195260	3.84	ppb		86
43) Methyl Methacrylate	6.819	69	47352	3.35	ppb		93
44) Dibromomethane	6.866	93	54172	3.70	ppb	#	71
45) Bromodichloromethane	7.011	83	128240	3.52	ppb		97
46) 1,2-Dichloropropane	6.732	63	94456	3.44	ppb		98
47) 1,4-Dioxane	6.880	88	8079m	66.23	ppb		
48) 2-Chloroethyl vinyl ether	7.286	63	35886	3.16	ppb		99
49) cis-1,3-Dichloropropene	7.439	75	157873	3.71	ppb		91
50) 4-Methyl-2-Pentanone	7.581	43	43396	2.28	ppb	#	78
52) Toluene	7.759	91	495925	3.86	ppb		98

Data Path : C:\msdchem\2\DATA\091117A\
Data File : QV601042.D
Acq On : 11 Sep 2017 3:18 pm
InstName : MSVOA6
Operator : AS
Sample : SEQ-CAL3
Misc : QBQV6091117A ICAL 4ppb AQU
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 12 11:01:11 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon Sep 11 19:09:01 2017
Response via : Initial Calibration

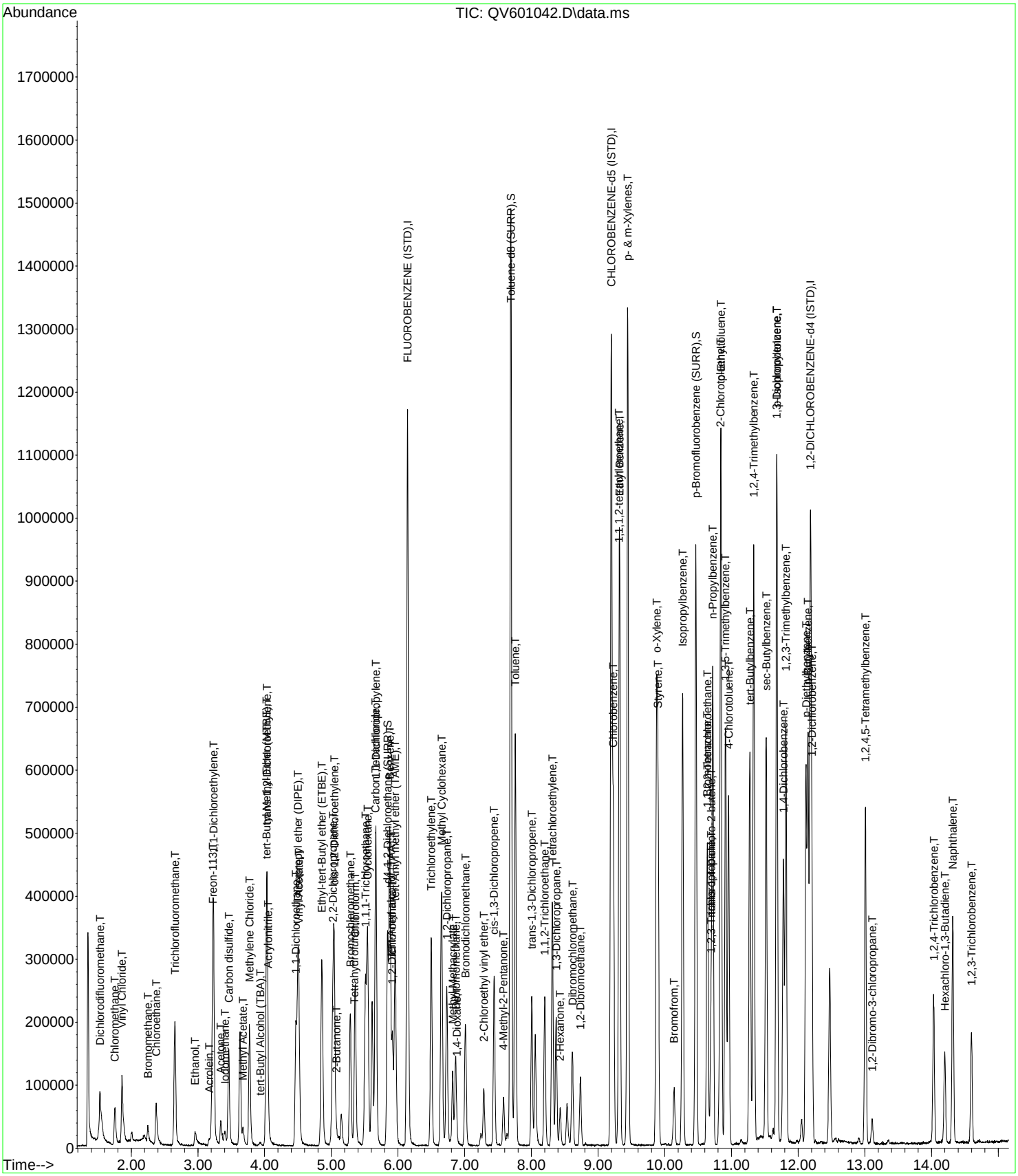
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	8.007	75	134477	3.73	ppb		98
54) 1,1,2-Trichloroethane	8.199	97	78072	4.01	ppb		91
55) 1,3-Dichloropropane	8.371	76	130091	3.93	ppb	#	83
56) Tetrachloroethylene	8.316	166	105467	3.10	ppb	#	71
57) 2-Hexanone	8.430	43	34663	2.64	ppb	#	95
58) Dibromochloromethane	8.616	129	81078	3.32	ppb		96
59) 1,2-Dibromoethane	8.736	107	72682	3.92	ppb		92
60) Chlorobenzene	9.228	112	304264	3.85	ppb		95
61) 1,1,1,2-tetrachloroethane	9.314	131	92105	3.07	ppb		89
62) Ethyl Benzene	9.323	91	532251	3.84	ppb		99
63) p- & m-Xylenes	9.442	91	817018	7.62	ppb		96
64) o-Xylene	9.876	91	414886	3.84	ppb		100
65) Styrene	9.899	104	285952	3.77	ppb	#	77
66) Bromofrom	10.138	173	40310	2.85	ppb	#	84
68) p-Ethyltoluene	10.842	105	494663m	4.86	ppb		
69) Isopropylbenzene	10.266	105	528312	5.00	ppb		94
71) 1,1,2,2-Tetrachloroethane	10.642	83	83243	4.92	ppb	#	96
72) Bromobenzene	10.636	77	167505	4.97	ppb		86
73) trans-1,4-Dichloro-2-b...	10.697	75	88355	4.77	ppb		97
74) 1,2,3-Trichloropropane	10.692	110	24801	5.07	ppb	#	25
75) n-Propylbenzene	10.719	91	623278	4.91	ppb		97
76) 2-Chlorotoluene	10.836	91	402198	4.87	ppb		100
77) 4-Chlorotoluene	10.956	91	353312	4.82	ppb		100
78) 1,3,5-Trimethylbenzene	10.909	105	411949	4.86	ppb		99
79) tert-Butylbenzene	11.276	119	340958	4.66	ppb		99
80) 1,2,4-Trimethylbenzene	11.334	105	412652	4.75	ppb	#	82
81) sec-Butylbenzene	11.521	105	517045	4.71	ppb		99
82) 1,3-Dichlorobenzene	11.677	146	191709	4.26	ppb		96
83) p-Isopropyltoluene	11.679	119	411343	4.41	ppb		98
84) 1,4-Dichlorobenzene	11.779	146	187798	4.30	ppb		95
85) 1,2,3-Trimethylbenzene	11.816	105	422157m	4.77	ppb		
86) p-Diethylbenzene	12.119	105	221130	4.63	ppb	#	36
87) 1,2-Dichlorobenzene	12.205	146	167449	4.25	ppb	#	86
88) n-Butylbenzene	12.144	91	464226	4.52	ppb		89
89) 1,2-Dibromo-3-chloropr...	13.109	75	10091	3.80	ppb	#	84
90) 1,2,4,5-Tetramethylben...	13.006	119	309662	4.02	ppb		96
91) 1,2,4-Trichlorobenzene	14.036	180	73863	2.90	ppb		97
92) Hexachloro-1,3-Butadiene	14.203	225	26692	1.87	ppb		94
93) Naphthalene	14.317	128	295638	4.98	ppb		98
94) 1,2,3-Trichlorobenzene	14.598	180	53778	2.47	ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\091117A\
Data File : QV601042.D
Acq On : 11 Sep 2017 3:18 pm
InstName : MSVOA6
Operator : AS
Sample : SEQ-CAL3
Misc : QBQV6091117A ICAL 4ppb AQU
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 12 11:01:11 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon Sep 11 19:09:01 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\091117A\
Data File : QV601043.D
Acq On : 11 Sep 2017 3:44 pm
InstName : MSVOA6
Operator : AS
Sample : SEQ-CAL4
Misc : QBQV6091117A ICAL 10ppb AQU
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 12 11:04:15 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO005.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Aug 02 15:35:29 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.143	70	187483	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.197	117	760921	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	12.183	152	257642	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.845	65	203047	9.49	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.90%				
51) Toluene-d8 (SURR)	7.690	98	1073501	10.80	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.00%				
70) p-Bromofluorobenzene (...	10.466	95	345562	14.05	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 140.50%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.530	85	233596	10.75	ppb		99
3) Chloromethane	1.755	50	165151	5.76	ppb		95
4) Vinyl Chloride	1.861	62	276928	10.96	ppb		98
5) Bromomethane	2.253	94	73304m	4.92	ppb		
6) Chloroethane	2.373	64	155934	9.64	ppb		99
7) Trichlorofluoromethane	2.654	101	408055	9.89	ppb		99
8) Ethanol	2.951	45	55743m	228.69	ppb		
9) Freon-113	3.221	101	257104	10.48	ppb		93
10) 1,1-Dichloroethylene	3.232	61	316808	8.65	ppb	#	80
11) Acrolein	3.166	56	20130	10.25	ppb		92
12) Acetone	3.344	43	67722	12.25	ppb		97
13) Iodomethane	3.405	142	90198	4.69	ppb		99
14) Methyl Acetate	3.675	43	74352m	5.85	ppb		
15) Carbon disulfide	3.461	76	527249	10.12	ppb		100
16) tert-Butyl Alcohol (TBA)	3.936	59	13836	7.50	ppb	#	97
17) Methylene Chloride	3.775	49	225553	6.45	ppb	#	74
18) Acrylonitrile	4.053	53	42486	7.64	ppb	#	60
19) trans-1,2-Dichloroethy...	4.036	61	297244	8.78	ppb		92
20) tert-Butyl Methyl Ethe...	4.028	73	618886	10.04	ppb		99
21) 1,1-Dichloroethane	4.468	63	418441	9.49	ppb		99
22) Vinyl Acetate	4.509	43	533390	5.87	ppb	#	99
23) Diisopropyl ether (DIPE)	4.501	45	584893	6.52	ppb	#	92
24) Ethyl-tert-Butyl ether...	4.857	59	680869	9.25	ppb		95
25) cis-1,2-Dichloroethylene	5.044	61	366735	8.67	ppb		93
26) 2-Butanone	5.074	72	23481	10.93	ppb	#	1
27) 2,2-Dichloropropane	5.024	77	401518	10.37	ppb		98
28) Tetrahydrofuran	5.339	42	30858	5.44	ppb		83
29) Bromochloromethane	5.283	49	138073	6.92	ppb		88
30) Chloroform	5.361	83	471203	10.10	ppb	#	96
31) 1,1,1-Trichloroethane	5.511	97	427573	10.34	ppb		99
32) Cyclohexane	5.542	56	373893	8.71	ppb		87
33) 1,1-Dichloropropylene	5.670	75	371190	10.47	ppb		81
35) Carbon Tetrachloride	5.664	117	361911	9.94	ppb		100
36) tert-Amyl alcohol (TAA)	5.895	59	127060	86.09	ppb	#	84
37) 1,2-Dichloroethane	5.914	62	274898	8.90	ppb		99
38) Benzene	5.873	78	1081918	11.02	ppb	#	90
39) tert-Amyl methyl ether...	5.959	73	704533	10.16	ppb		98
41) Trichloroethylene	6.499	95	290418	9.94	ppb		95
42) Methyl Cyclohexane	6.657	83	505273	9.84	ppb		86
43) Methyl Methacrylate	6.821	69	125612	8.39	ppb		94
44) Dibromomethane	6.863	93	136170	9.27	ppb		96
45) Bromodichloromethane	7.011	83	340116	9.20	ppb		97
46) 1,2-Dichloropropane	6.730	63	242722	8.32	ppb		98
47) 1,4-Dioxane	6.883	88	19418m	149.29	ppb		
48) 2-Chloroethyl vinyl ether	7.289	63	90885	7.40	ppb		99
49) cis-1,3-Dichloropropene	7.442	75	419702	9.72	ppb		92
50) 4-Methyl-2-Pentanone	7.581	43	115307	5.29	ppb		84
52) Toluene	7.759	91	1247191	9.85	ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\091117A\
Data File : QV601043.D
Acq On : 11 Sep 2017 3:44 pm
InstName : MSVOA6
Operator : AS
Sample : SEQ-CAL4
Misc : QBQV6091117A ICAL 10ppb AQU
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 12 11:04:15 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO005.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Aug 02 15:35:29 2017
Response via : Initial Calibration

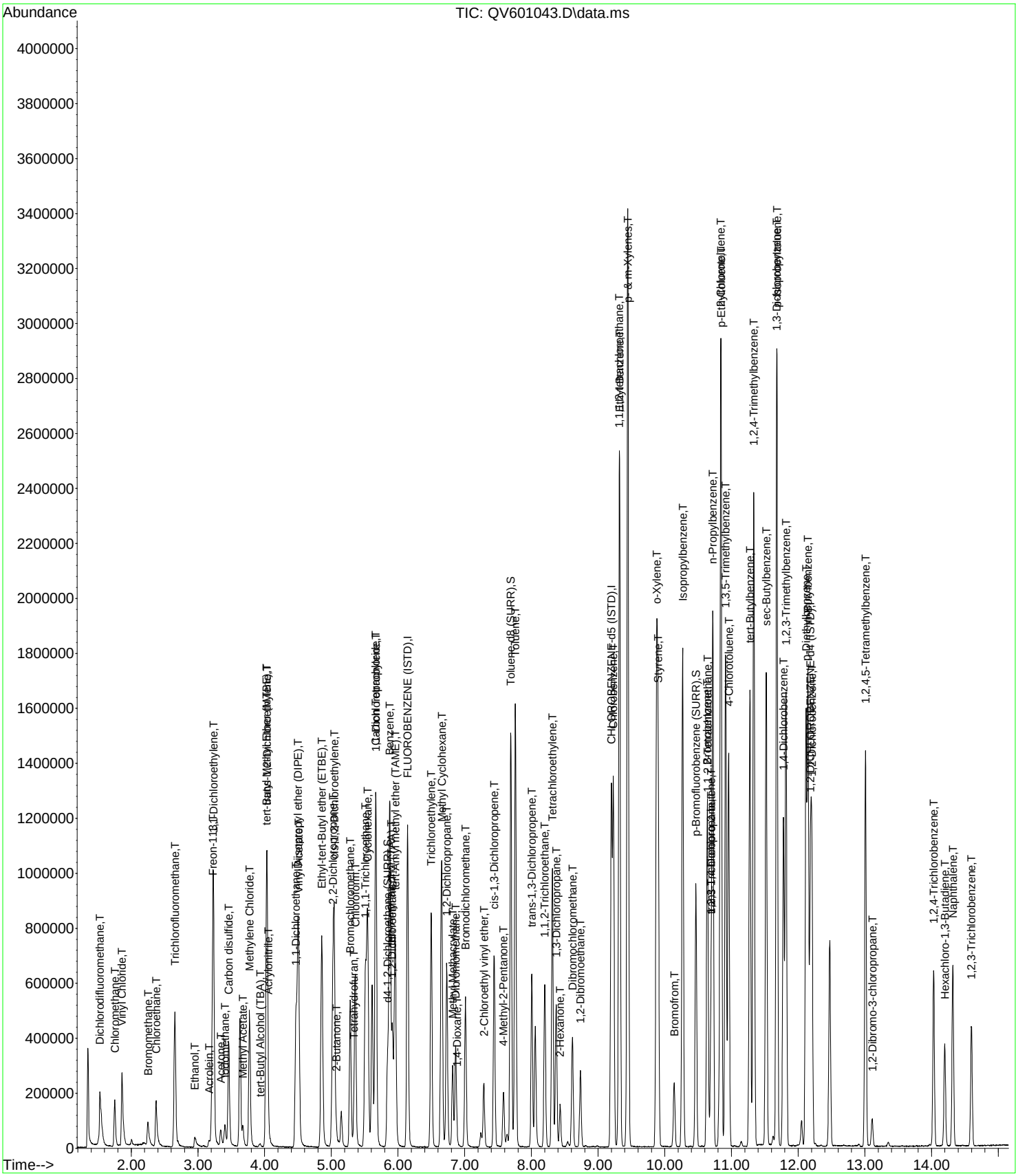
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	8.007	75	351078	9.48	ppb	#	88
54) 1,1,2-Trichloroethane	8.199	97	200953	10.46	ppb		91
55) 1,3-Dichloropropane	8.371	76	336204	9.84	ppb	#	83
56) Tetrachloroethylene	8.316	166	275031	7.82	ppb	#	71
57) 2-Hexanone	8.430	43	85968	5.66	ppb	#	89
58) Dibromochloromethane	8.616	129	214813	8.61	ppb		97
59) 1,2-Dibromoethane	8.736	107	186763	9.94	ppb		94
60) Chlorobenzene	9.228	112	768132	9.61	ppb		96
61) 1,1,1,2-tetrachloroethane	9.317	131	243273	7.95	ppb		89
62) Ethyl Benzene	9.323	91	1385438	9.99	ppb		99
63) p- & m-Xylenes	9.445	91	2113369	19.68	ppb		96
64) o-Xylene	9.876	91	1067734	9.85	ppb		99
65) Styrene	9.901	104	757177	10.05	ppb	#	77
66) Bromofrom	10.143	173	104971	7.01	ppb		98
68) p-Ethyltoluene	10.845	105	1302123m	13.75	ppb		
69) Isopropylbenzene	10.269	105	1372736	13.97	ppb		94
71) 1,1,2,2-Tetrachloroethane	10.644	83	214092	13.57	ppb	#	97
72) Bromobenzene	10.636	77	436552	13.82	ppb		87
73) trans-1,4-Dichloro-2-b...	10.694	75	235523	13.00	ppb		96
74) 1,2,3-Trichloropropane	10.694	110	61752	12.93	ppb	#	75
75) n-Propylbenzene	10.719	91	1623404	13.68	ppb		97
76) 2-Chlorotoluene	10.839	91	1029831	13.30	ppb		100
77) 4-Chlorotoluene	10.959	91	924392	13.48	ppb		99
78) 1,3,5-Trimethylbenzene	10.911	105	1082539	13.49	ppb		98
79) tert-Butylbenzene	11.276	119	879857	12.76	ppb		99
80) 1,2,4-Trimethylbenzene	11.334	105	1080998	13.25	ppb	#	83
81) sec-Butylbenzene	11.521	105	1366289	13.33	ppb		98
82) 1,3-Dichlorobenzene	11.676	146	502804	11.56	ppb		96
83) p-Isopropyltoluene	11.682	119	1105625	12.54	ppb		98
84) 1,4-Dichlorobenzene	11.779	146	486964	11.53	ppb		94
85) 1,2,3-Trimethylbenzene	11.818	105	1095021m	12.36	ppb		
86) p-Diethylbenzene	12.119	105	586401	12.78	ppb	#	35
87) 1,2-Dichlorobenzene	12.205	146	433006	11.05	ppb	#	86
88) n-Butylbenzene	12.147	91	1233465	12.49	ppb		89
89) 1,2-Dibromo-3-chloropr...	13.112	75	27235	9.63	ppb		88
90) 1,2,4,5-Tetramethylben...	13.009	119	843089	11.16	ppb		98
91) 1,2,4-Trichlorobenzene	14.030	180	193547	7.07	ppb		97
92) Hexachloro-1,3-Butadiene	14.200	225	69777	4.37	ppb		94
93) Naphthalene	14.320	128	549757	9.53	ppb		98
94) 1,2,3-Trichlorobenzene	14.595	180	137655	5.64	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\091117A\
Data File : QV601043.D
Acq On : 11 Sep 2017 3:44 pm
InstName : MSVOA6
Operator : AS
Sample : SEQ-CAL4
Misc : QBQV6091117A ICAL 10ppb AQU
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 12 11:04:15 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO005.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Wed Aug 02 15:35:29 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\091117A\
Data File : QV601044.D
Acq On : 11 Sep 2017 4:11 pm
InstName : MSVOA6
Operator : AS
Sample : SEQ-CAL5
Misc : QBQV6091117A ICAL 20ppb AQU
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 12 11:05:09 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon Sep 11 19:12:21 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.143	70	195947	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.197	117	790865	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	12.186	152	271255	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.845	65	213453	9.85	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.50%				
51) Toluene-d8 (SURR)	7.692	98	1118726	10.41	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.10%				
70) p-Bromofluorobenzene (...	10.466	95	359504	11.80	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 118.00%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.532	85	463043	20.67	ppb		99
3) Chloromethane	1.749	50	325337	14.57	ppb		96
4) Vinyl Chloride	1.863	62	563623	21.50	ppb	#	89
5) Bromomethane	2.253	94	170723	15.97	ppb		96
6) Chloroethane	2.373	64	314326	19.77	ppb		99
7) Trichlorofluoromethane	2.654	101	801877	19.59	ppb		99
8) Ethanol	2.954	45	79604m	555.73	ppb		
9) Freon-113	3.221	101	512199	20.17	ppb		93
10) 1,1-Dichloroethylene	3.229	61	639693	18.70	ppb	#	79
11) Acrolein	3.166	56	38199	18.73	ppb		93
12) Acetone	3.344	43	80999	12.80	ppb		96
13) Iodomethane	3.405	142	227701	14.69	ppb		99
14) Methyl Acetate	3.672	43	142616m	13.66	ppb		
15) Carbon disulfide	3.460	76	1059802	19.80	ppb		100
16) tert-Butyl Alcohol (TBA)	3.931	59	28681	18.17	ppb	#	97
17) Methylene Chloride	3.775	49	457108	16.03	ppb	#	74
18) Acrylonitrile	4.050	53	86644	16.88	ppb	#	61
19) trans-1,2-Dichloroethy...	4.034	61	604806	18.76	ppb		92
20) tert-Butyl Methyl Ethe...	4.025	73	1271380	20.15	ppb		99
21) 1,1-Dichloroethane	4.470	63	849206	19.50	ppb	#	88
22) Vinyl Acetate	4.509	43	1108529	16.54	ppb		100
23) Diisopropyl ether (DIPE)	4.501	45	1231938	16.05	ppb		95
24) Ethyl-tert-Butyl ether...	4.854	59	1421863	19.64	ppb		95
25) cis-1,2-Dichloroethylene	5.044	61	762968	18.96	ppb		95
26) 2-Butanone	5.074	72	40840	18.64	ppb	#	76
27) 2,2-Dichloropropane	5.024	77	840694	21.37	ppb	#	83
28) Tetrahydrofuran	5.336	42	61073	13.07	ppb		80
29) Bromochloromethane	5.283	49	275787	16.31	ppb		89
30) Chloroform	5.358	83	967232	20.36	ppb		99
31) 1,1,1-Trichloroethane	5.511	97	864632	20.34	ppb	#	86
32) Cyclohexane	5.544	56	751579	18.60	ppb		88
33) 1,1-Dichloropropylene	5.667	75	746802	20.60	ppb		79
35) Carbon Tetrachloride	5.664	117	744496	19.64	ppb		100
36) tert-Amyl alcohol (TAA)	5.892	59	267934	190.85	ppb		96
37) 1,2-Dichloroethane	5.917	62	554538	18.96	ppb		99
38) Benzene	5.875	78	2183020	20.96	ppb	#	96
39) tert-Amyl methyl ether...	5.956	73	1455694	20.78	ppb	#	92
41) Trichloroethylene	6.496	95	584496	19.39	ppb		95
42) Methyl Cyclohexane	6.652	83	1000240	19.26	ppb		87
43) Methyl Methacrylate	6.819	69	254234	17.95	ppb		93
44) Dibromomethane	6.863	93	281980	19.02	ppb		95
45) Bromodichloromethane	7.011	83	698462	18.99	ppb		97
46) 1,2-Dichloropropane	6.730	63	494050	18.27	ppb		98
47) 1,4-Dioxane	6.874	88	39151	344.54	ppb		96
48) 2-Chloroethyl vinyl ether	7.286	63	182150	16.66	ppb		99
49) cis-1,3-Dichloropropene	7.442	75	867301	20.06	ppb		91
50) 4-Methyl-2-Pentanone	7.581	43	240914	14.03	ppb		88
52) Toluene	7.759	91	2525078	19.24	ppb		99

Data Path : C:\msdchem\2\DATA\091117A\
Data File : QV601044.D
Acq On : 11 Sep 2017 4:11 pm
InstName : MSVOA6
Operator : AS
Sample : SEQ-CAL5
Misc : QBQV6091117A ICAL 20ppb AQU
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 12 11:05:09 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon Sep 11 19:12:21 2017
Response via : Initial Calibration

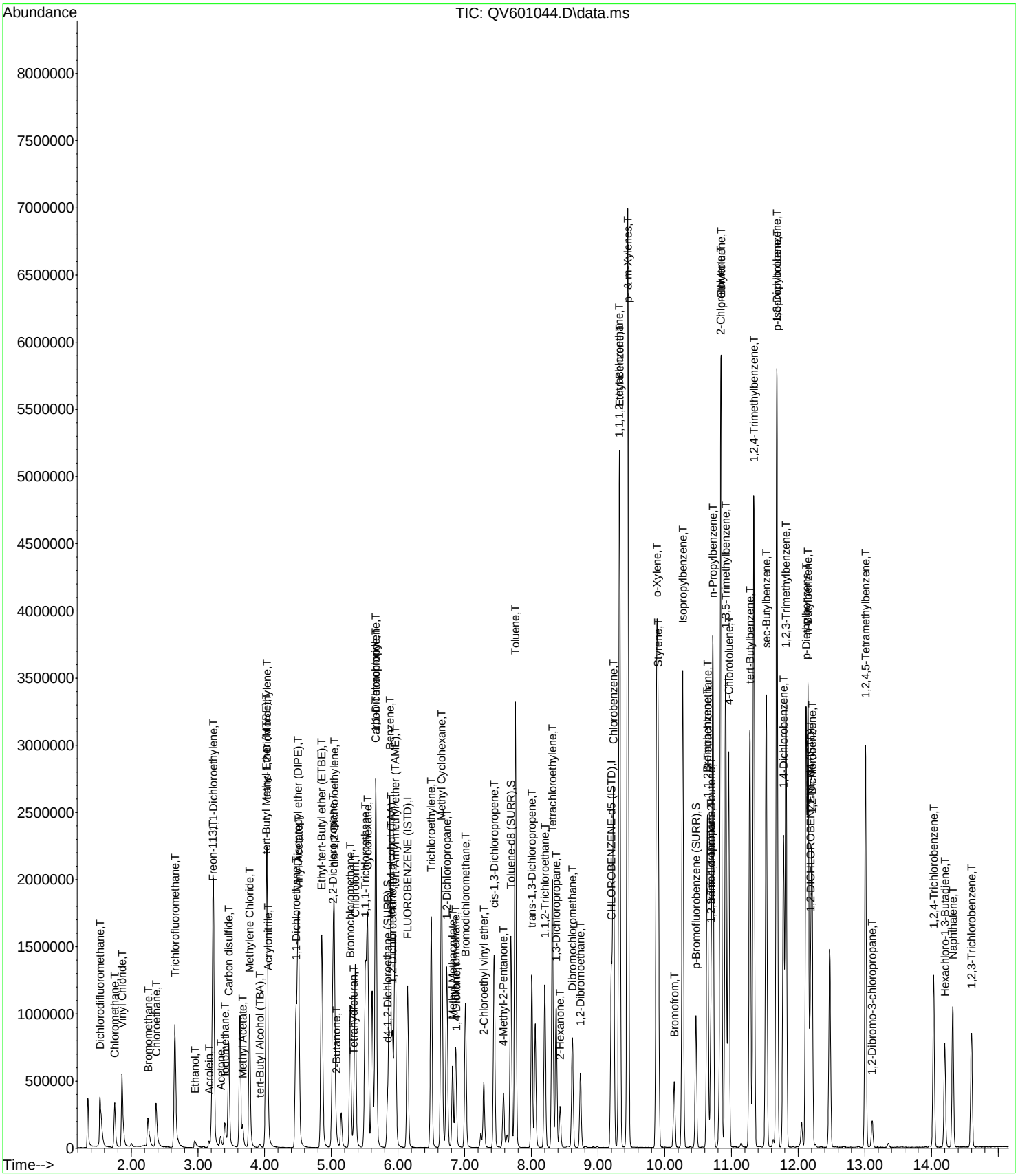
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	8.007	75	728507	19.84	ppb		98
54) 1,1,2-Trichloroethane	8.201	97	404357	20.14	ppb		91
55) 1,3-Dichloropropane	8.368	76	678181	20.13	ppb		94
56) Tetrachloroethylene	8.315	166	549600	16.62	ppb		97
57) 2-Hexanone	8.430	43	174945	14.59	ppb	#	90
58) Dibromochloromethane	8.613	129	439438	18.14	ppb		97
59) 1,2-Dibromoethane	8.736	107	373280	19.76	ppb		93
60) Chlorobenzene	9.231	112	1551316	19.43	ppb		95
61) 1,1,1,2-tetrachloroethane	9.317	131	493691	16.89	ppb		89
62) Ethyl Benzene	9.323	91	2783397	19.76	ppb		99
63) p- & m-Xylenes	9.445	91	4277355	39.18	ppb		96
64) o-Xylene	9.879	91	2143931	19.58	ppb		100
65) Styrene	9.901	104	1541874	20.00	ppb	#	77
66) Bromofrom	10.143	173	219801	16.08	ppb		97
68) p-Ethyltoluene	10.845	105	2591464	22.80	ppb	#	91
69) Isopropylbenzene	10.269	105	2719349	22.99	ppb		94
71) 1,1,2,2-Tetrachloroethane	10.644	83	424459	22.42	ppb	#	97
72) Bromobenzene	10.636	77	881622	23.36	ppb		87
73) trans-1,4-Dichloro-2-b...	10.697	75	470172	22.99	ppb	#	92
74) 1,2,3-Trichloropropane	10.694	110	121458	22.23	ppb	#	19
75) n-Propylbenzene	10.722	91	3197545	22.65	ppb		97
76) 2-Chlorotoluene	10.839	91	2088378	22.78	ppb		100
77) 4-Chlorotoluene	10.959	91	1874169	23.06	ppb		99
78) 1,3,5-Trimethylbenzene	10.914	105	2141017	22.76	ppb	#	98
79) tert-Butylbenzene	11.276	119	1733931	21.63	ppb		99
80) 1,2,4-Trimethylbenzene	11.337	105	2161948	22.45	ppb	#	83
81) sec-Butylbenzene	11.521	105	2681182	22.11	ppb		99
82) 1,3-Dichlorobenzene	11.679	146	998791	20.60	ppb		95
83) p-Isopropyltoluene	11.682	119	2205464	21.64	ppb		98
84) 1,4-Dichlorobenzene	11.779	146	977246	20.86	ppb		94
85) 1,2,3-Trimethylbenzene	11.816	105	2171209m	22.56	ppb		
86) p-Diethylbenzene	12.119	105	1187927	22.64	ppb	#	35
87) 1,2-Dichlorobenzene	12.208	146	868434	20.63	ppb		97
88) n-Butylbenzene	12.147	91	2472299	22.02	ppb		89
89) 1,2-Dibromo-3-chloropr...	13.106	75	55815	19.88	ppb		89
90) 1,2,4,5-Tetramethylben...	13.009	119	1711782	20.87	ppb		98
91) 1,2,4-Trichlorobenzene	14.030	180	390940	15.67	ppb		97
92) Hexachloro-1,3-Butadiene	14.197	225	142489	11.04	ppb		94
93) Naphthalene	14.320	128	885887	14.02	ppb		98
94) 1,2,3-Trichlorobenzene	14.598	180	273416	13.37	ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\091117A\
Data File : QV601044.D
Acq On : 11 Sep 2017 4:11 pm
InstName : MSVOA6
Operator : AS
Sample : SEQ-CAL5
Misc : QBQV6091117A ICAL 20ppb AQU
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 12 11:05:09 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon Sep 11 19:12:21 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\091117A\
Data File : QV601045.D
Acq On : 11 Sep 2017 4:36 pm
InstName : MSVOA6
Operator : AS
Sample : SEQ-CAL6
Misc : QBQV6091117A ICAL 40ppb AQU
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 12 11:07:49 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon Sep 11 19:13:40 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.142	70	193036	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.197	117	772166	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	12.185	152	272613	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.844	65	213008	10.00	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.00%				
51) Toluene-d8 (SURR)	7.691	98	1099704	10.38	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.80%				
70) p-Bromofluorobenzene (...	10.465	95	356485	11.24	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 112.40%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.532	85	940808	42.39	ppb		99
3) Chloromethane	1.751	50	708600	34.22	ppb		96
4) Vinyl Chloride	1.860	62	1137871	43.47	ppb		98
5) Bromomethane	2.252	94	466448	46.31	ppb		98
6) Chloroethane	2.372	64	634661	40.72	ppb		99
7) Trichlorofluoromethane	2.656	101	1589502	39.34	ppb		99
8) Ethanol	2.951	45	145078m	1163.54	ppb		
9) Freon-113	3.223	101	1036641	41.28	ppb		93
10) 1,1-Dichloroethylene	3.234	61	1288094	38.79	ppb	#	80
11) Acrolein	3.165	56	78440	39.11	ppb		93
12) Acetone	3.337	43	148683m	25.05	ppb		
13) Iodomethane	3.404	142	497152	35.37	ppb		98
14) Methyl Acetate	3.668	43	303242m	31.27	ppb		
15) Carbon disulfide	3.462	76	2133898	40.47	ppb		100
16) tert-Butyl Alcohol (TBA)	3.922	59	54596	35.84	ppb	#	97
17) Methylene Chloride	3.774	49	925626	34.36	ppb	#	74
18) Acrylonitrile	4.050	53	180673	36.88	ppb	#	60
19) trans-1,2-Dichloroethy...	4.036	61	1239171	39.52	ppb		92
20) tert-Butyl Methyl Ethe...	4.024	73	2605098	41.92	ppb		99
21) 1,1-Dichloroethane	4.470	63	1728659	40.55	ppb		99
22) Vinyl Acetate	4.511	43	2308177	37.03	ppb		100
23) Diisopropyl ether (DIPE)	4.500	45	2556456	35.46	ppb		95
24) Ethyl-tert-Butyl ether...	4.856	59	2926661	41.32	ppb		95
25) cis-1,2-Dichloroethylene	5.046	61	1560558	39.86	ppb	#	84
26) 2-Butanone	5.071	72	87546	40.55	ppb	#	1
27) 2,2-Dichloropropane	5.023	77	1704517	43.48	ppb	#	83
28) Tetrahydrofuran	5.332	42	127727	29.69	ppb		82
29) Bromochloromethane	5.285	49	546161	34.31	ppb		89
30) Chloroform	5.357	83	1953506	41.57	ppb	#	96
31) 1,1,1-Trichloroethane	5.510	97	1775995	42.24	ppb		99
32) Cyclohexane	5.544	56	1543304	39.51	ppb		88
33) 1,1-Dichloropropylene	5.669	75	1535346	42.61	ppb		79
35) Carbon Tetrachloride	5.663	117	1537359	41.34	ppb		100
36) tert-Amyl alcohol (TAA)	5.889	59	546335	399.71	ppb	#	84
37) 1,2-Dichloroethane	5.916	62	1133762	39.91	ppb	#	98
38) Benzene	5.875	78	4405691	42.51	ppb	#	94
39) tert-Amyl methyl ether...	5.955	73	2972631	42.95	ppb	#	92
41) Trichloroethylene	6.498	95	1189522	40.55	ppb		95
42) Methyl Cyclohexane	6.654	83	2050587	40.81	ppb		87
43) Methyl Methacrylate	6.818	69	529379	39.10	ppb	#	68
44) Dibromomethane	6.865	93	567944	39.75	ppb	#	71
45) Bromodichloromethane	7.010	83	1441905	40.60	ppb		98
46) 1,2-Dichloropropane	6.732	63	1010553	39.05	ppb	#	90
47) 1,4-Dioxane	6.873	88	75880	712.49	ppb		98
48) 2-Chloroethyl vinyl ether	7.285	63	370538	36.21	ppb		99
49) cis-1,3-Dichloropropene	7.441	75	1759715	41.94	ppb		92
50) 4-Methyl-2-Pentanone	7.580	43	487678	31.21	ppb		87
52) Toluene	7.758	91	5056746	39.63	ppb		99

Data Path : C:\msdchem\2\DATA\091117A\
Data File : QV601045.D
Acq On : 11 Sep 2017 4:36 pm
InstName : MSVOA6
Operator : AS
Sample : SEQ-CAL6
Misc : QBQV6091117A ICAL 40ppb AQU
ALS Vial : 6 Sample Multiplier: 1

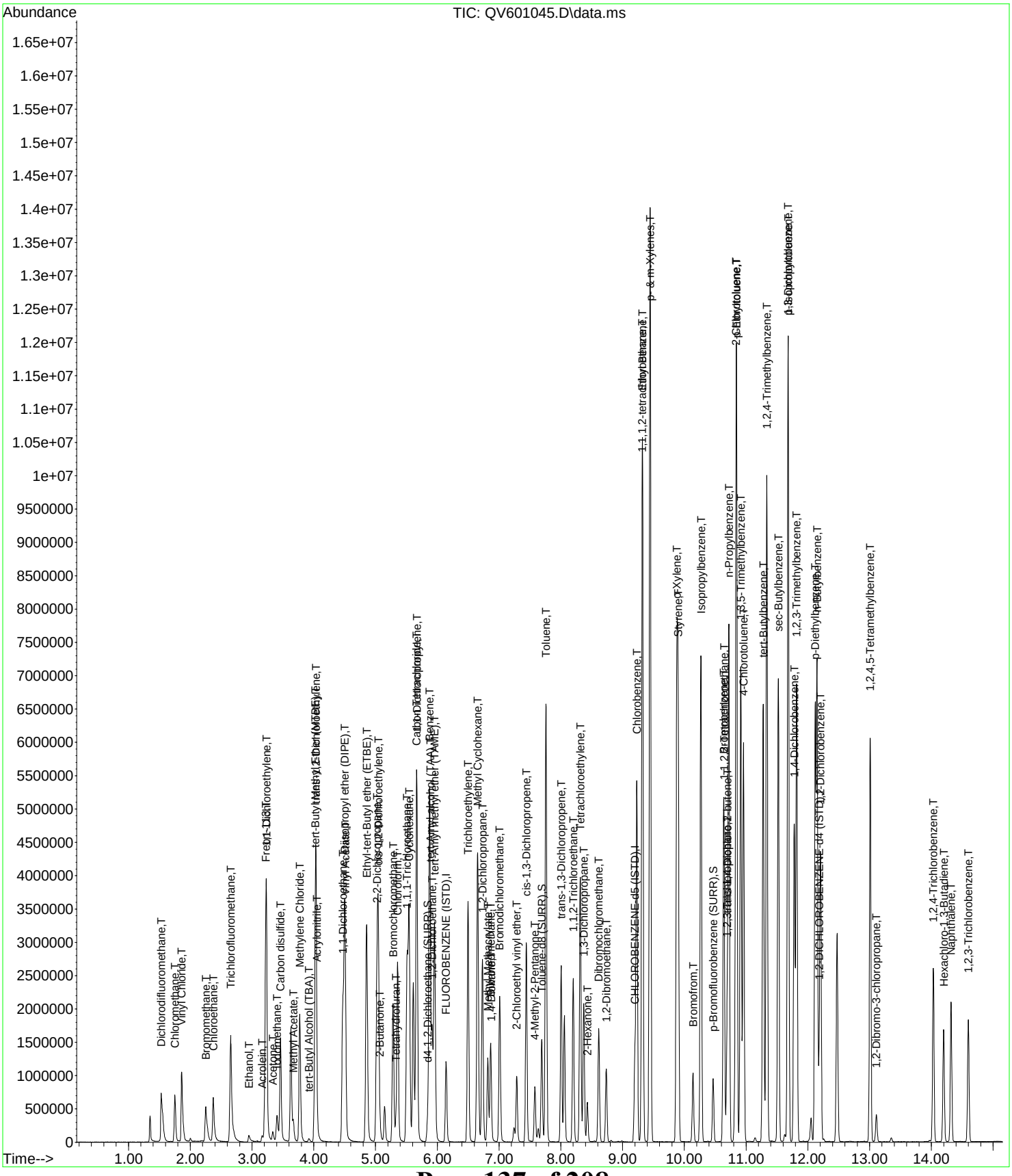
Quant Time: Sep 12 11:07:49 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon Sep 11 19:13:40 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	8.006	75	1485018	41.73	ppb		98
54) 1,1,2-Trichloroethane	8.201	97	809265	41.38	ppb		91
55) 1,3-Dichloropropane	8.373	76	1357628	41.51	ppb	#	83
56) Tetrachloroethylene	8.315	166	1103004	35.29	ppb	#	71
57) 2-Hexanone	8.432	43	344007	31.36	ppb	#	90
58) Dibromochloromethane	8.615	129	895723	38.74	ppb		97
59) 1,2-Dibromoethane	8.738	107	745226	40.74	ppb		93
60) Chlorobenzene	9.230	112	3090687	39.98	ppb		95
61) 1,1,1,2-tetrachloroethane	9.316	131	1000800	36.06	ppb		89
62) Ethyl Benzene	9.322	91	5600469	40.94	ppb		98
63) p- & m-Xylenes	9.447	91	8505324	80.21	ppb		95
64) o-Xylene	9.878	91	4308236	40.60	ppb		100
65) Styrene	9.901	104	3139548	41.91	ppb	#	77
66) Bromofrom	10.143	173	454241	35.56	ppb	#	78
68) p-Ethyltoluene	10.847	105	5249110	44.67	ppb	#	68
69) Isopropylbenzene	10.271	105	5409857	44.29	ppb		94
71) 1,1,2,2-Tetrachloroethane	10.643	83	859409	44.13	ppb	#	97
72) Bromobenzene	10.638	77	1775126	45.39	ppb		88
73) trans-1,4-Dichloro-2-b...	10.696	75	948316	45.16	ppb	#	91
74) 1,2,3-Trichloropropane	10.694	110	243712	43.26	ppb	#	73
75) n-Propylbenzene	10.721	91	6396300	43.98	ppb		97
76) 2-Chlorotoluene	10.838	91	4241997	44.80	ppb		100
77) 4-Chlorotoluene	10.958	91	3740025	44.53	ppb		99
78) 1,3,5-Trimethylbenzene	10.913	105	4314178	44.45	ppb	#	98
79) tert-Butylbenzene	11.278	119	3495739	42.61	ppb		99
80) 1,2,4-Trimethylbenzene	11.336	105	4418485	44.47	ppb	#	84
81) sec-Butylbenzene	11.523	105	5408306	43.36	ppb		99
82) 1,3-Dichlorobenzene	11.678	146	2056290	41.79	ppb		95
83) p-Isopropyltoluene	11.684	119	4541278	43.52	ppb		98
84) 1,4-Dichlorobenzene	11.781	146	1982251	41.74	ppb		94
85) 1,2,3-Trimethylbenzene	11.818	105	4438598m	44.87	ppb		
86) p-Diethylbenzene	12.118	105	2451273	45.51	ppb	#	71
87) 1,2-Dichlorobenzene	12.204	146	1750313	41.09	ppb	#	86
88) n-Butylbenzene	12.149	91	5086691	44.34	ppb	#	87
89) 1,2-Dibromo-3-chloropr...	13.108	75	115461	41.00	ppb		88
90) 1,2,4,5-Tetramethylben...	13.008	119	3550887	42.88	ppb		98
91) 1,2,4-Trichlorobenzene	14.029	180	819048	34.17	ppb		98
92) Hexachloro-1,3-Butadiene	14.202	225	313920	26.53	ppb		95
93) Naphthalene	14.319	128	1739307	28.21	ppb		98
94) 1,2,3-Trichlorobenzene	14.600	180	573837	29.99	ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\2\DATA\091117A\
Data File : QV601045.D
Acq On : 11 Sep 2017 4:36 pm
InstName : MSVOA6
Operator : AS
Sample : SEQ-CAL6
Misc : QBQV6091117A ICAL 40ppb AQU
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 12 11:07:49 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon Sep 11 19:13:40 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\091117A\
Data File : QV601046.D
Acq On : 11 Sep 2017 5:04 pm
InstName : MSVOA6
Operator : AS
Sample : SEQ-CAL7
Misc : QBQV6091117A ICAL 80ppb AQU
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 12 10:49:40 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon Sep 11 19:15:08 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.145	70	202681	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.197	117	790984	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	12.186	152	289001	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.845	65	228027	10.25	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.50%				
51) Toluene-d8 (SURR)	7.692	98	1148884	10.46	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.60%				
70) p-Bromofluorobenzene (...	10.466	95	369503	10.64	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.40%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.532	85	1923059	81.68	ppb	#	85
3) Chloromethane	1.755	50	1629806	78.83	ppb		96
4) Vinyl Chloride	1.861	62	2377284	85.07	ppb		98
5) Bromomethane	2.247	94	1182516	114.76	ppb		97
6) Chloroethane	2.373	64	1330934	81.52	ppb		99
7) Trichlorofluoromethane	2.656	101	3230735	76.31	ppb		99
8) Ethanol	2.949	45	337594	2938.90	ppb		100
9) Freon-113	3.224	101	2184870	82.50	ppb		93
10) 1,1-Dichloroethylene	3.235	61	2666997	77.59	ppb	#	80
11) Acrolein	3.163	56	181672	85.20	ppb		93
12) Acetone	3.335	43	306294m	51.43	ppb		
13) Iodomethane	3.408	142	947259	70.86	ppb		98
14) Methyl Acetate	3.666	43	672554m	68.04	ppb		
15) Carbon disulfide	3.463	76	4460454	80.59	ppb		100
16) tert-Butyl Alcohol (TBA)	3.922	59	132592	85.50	ppb	#	97
17) Methylene Chloride	3.775	49	2001168	73.89	ppb		76
18) Acrylonitrile	4.045	53	390559	77.86	ppb	#	95
19) trans-1,2-Dichloroethy...	4.036	61	2705439	83.09	ppb		93
20) tert-Butyl Methyl Ethe...	4.025	73	5691714	87.10	ppb		99
21) 1,1-Dichloroethane	4.470	63	3630308	81.65	ppb	#	88
22) Vinyl Acetate	4.509	43	5065375	81.96	ppb	#	100
23) Diisopropyl ether (DIPE)	4.501	45	5627158	77.82	ppb		96
24) Ethyl-tert-Butyl ether...	4.854	59	6340006	85.77	ppb		95
25) cis-1,2-Dichloroethylene	5.044	61	3368581	82.93	ppb		95
26) 2-Butanone	5.069	72	193813	85.34	ppb	#	63
27) 2,2-Dichloropropane	5.024	77	3651354	87.63	ppb	#	83
28) Tetrahydrofuran	5.327	42	290492	68.66	ppb		84
29) Bromochloromethane	5.286	49	1153733	72.15	ppb		90
30) Chloroform	5.358	83	4182206	84.50	ppb	#	96
31) 1,1,1-Trichloroethane	5.511	97	3770843	85.04	ppb		99
32) Cyclohexane	5.544	56	3320366	82.06	ppb		89
33) 1,1-Dichloropropylene	5.670	75	3302914	86.58	ppb		80
35) Carbon Tetrachloride	5.667	117	3305860	84.90	ppb		99
36) tert-Amyl alcohol (TAA)	5.892	59	1282477	911.29	ppb	#	84
37) 1,2-Dichloroethane	5.917	62	2463678	83.56	ppb		99
38) Benzene	5.875	78	9279205	84.29	ppb	#	94
39) tert-Amyl methyl ether...	5.953	73	6450872	88.41	ppb	#	92
41) Trichloroethylene	6.499	95	2527962	83.86	ppb		94
42) Methyl Cyclohexane	6.655	83	4380186	84.98	ppb		87
43) Methyl Methacrylate	6.819	69	1147426	84.00	ppb	#	68
44) Dibromomethane	6.863	93	1226131	84.25	ppb		95
45) Bromodichloromethane	7.011	83	3076366	84.89	ppb		97
46) 1,2-Dichloropropane	6.732	63	2155843	82.21	ppb	#	90
47) 1,4-Dioxane	6.874	88	187624	1778.48	ppb		98
48) 2-Chloroethyl vinyl ether	7.286	63	790482	77.97	ppb		99
49) cis-1,3-Dichloropropene	7.442	75	3759425	87.33	ppb		91
50) 4-Methyl-2-Pentanone	7.581	43	1043886	70.09	ppb		87
52) Toluene	7.762	91	10453335	79.80	ppb		99

Data Path : C:\msdchem\2\DATA\091117A\
Data File : QV601046.D
Acq On : 11 Sep 2017 5:04 pm
InstName : MSVOA6
Operator : AS
Sample : SEQ-CAL7
Misc : QBQV6091117A ICAL 80ppb AQU
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 12 10:49:40 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon Sep 11 19:15:08 2017
Response via : Initial Calibration

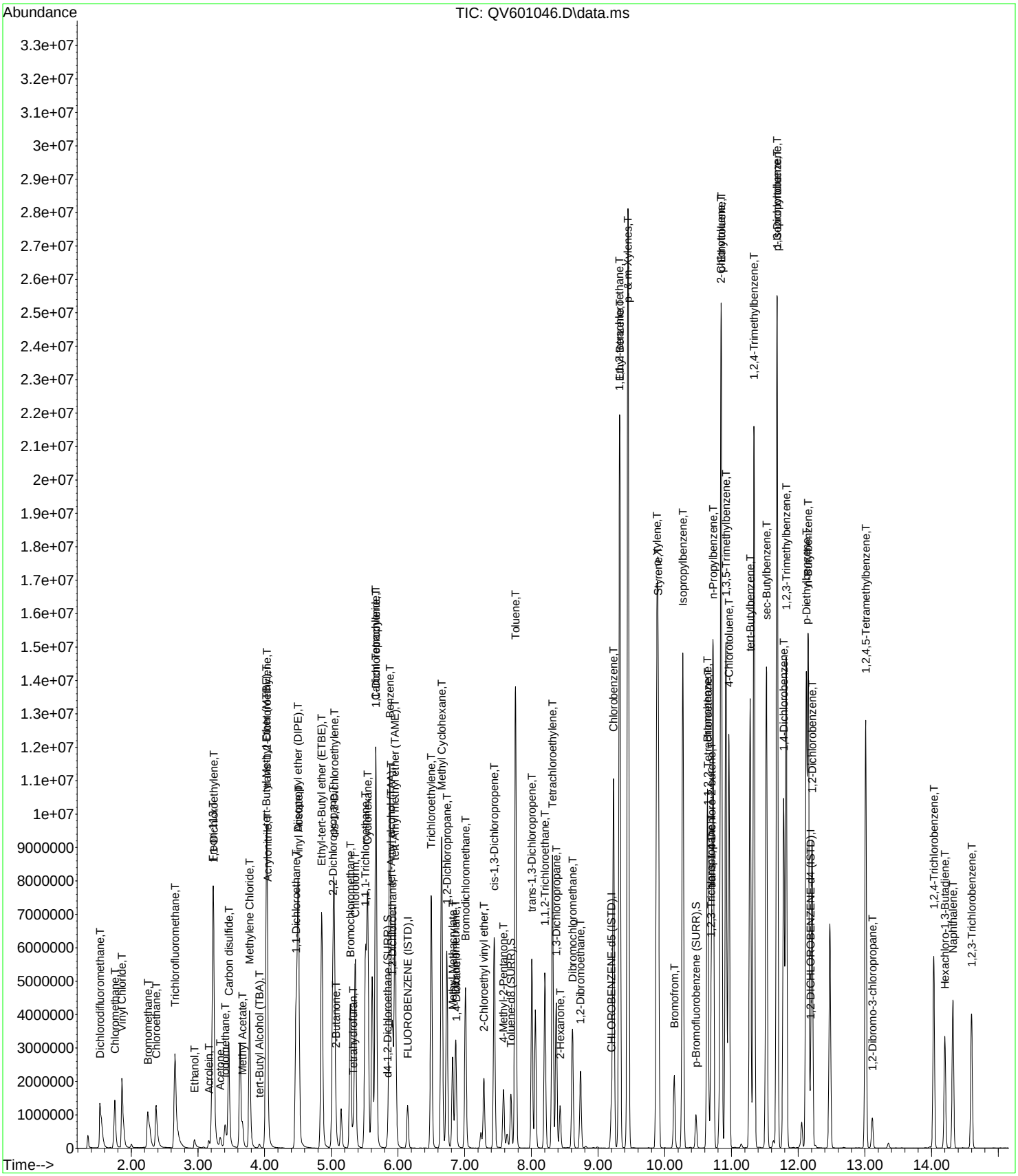
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	8.007	75	3175057	87.27	ppb		98
54) 1,1,2-Trichloroethane	8.201	97	1696458	84.23	ppb		91
55) 1,3-Dichloropropane	8.374	76	2850582	84.87	ppb	#	83
56) Tetrachloroethylene	8.316	166	2341832	75.19	ppb	#	71
57) 2-Hexanone	8.432	43	726442	68.86	ppb	#	90
58) Dibromochloromethane	8.616	129	1890134	81.37	ppb		97
59) 1,2-Dibromoethane	8.736	107	1543006	82.49	ppb		91
60) Chlorobenzene	9.231	112	6357017	80.46	ppb		95
61) 1,1,1,2-tetrachloroethane	9.320	131	2107608	75.76	ppb		89
62) Ethyl Benzene	9.325	91	11299892	80.40	ppb		97
63) p- & m-Xylenes	9.445	91	16149191	148.54	ppb		90
64) o-Xylene	9.882	91	8904005	81.71	ppb		99
65) Styrene	9.901	104	6613337	85.87	ppb	#	77
66) Bromofrom	10.143	173	967503	76.95	ppb	#	78
68) p-Ethyltoluene	10.847	105	10765247	83.70	ppb	#	67
69) Isopropylbenzene	10.271	105	10893807	81.67	ppb		94
71) 1,1,2,2-Tetrachloroethane	10.647	83	1836347	86.80	ppb	#	97
72) Bromobenzene	10.639	77	3748791	87.58	ppb		88
73) trans-1,4-Dichloro-2-b...	10.700	75	2051538	89.96	ppb	#	90
74) 1,2,3-Trichloropropane	10.694	110	508832	83.27	ppb	#	15
75) n-Propylbenzene	10.725	91	12797509	80.78	ppb		99
76) 2-Chlorotoluene	10.842	91	8818517	85.29	ppb		100
77) 4-Chlorotoluene	10.961	91	7823763	85.36	ppb		100
78) 1,3,5-Trimethylbenzene	10.917	105	9016530	85.16	ppb	#	98
79) tert-Butylbenzene	11.279	119	7284238	82.03	ppb		99
80) 1,2,4-Trimethylbenzene	11.337	105	9225583	85.06	ppb	#	82
81) sec-Butylbenzene	11.523	105	11072407	81.70	ppb		99
82) 1,3-Dichlorobenzene	11.682	146	4434981	83.92	ppb		95
83) p-Isopropyltoluene	11.685	119	9517540	84.17	ppb		97
84) 1,4-Dichlorobenzene	11.782	146	4191749	82.32	ppb		93
85) 1,2,3-Trimethylbenzene	11.821	105	9249225m	85.64	ppb		
86) p-Diethylbenzene	12.122	105	5252056	89.58	ppb	#	72
87) 1,2-Dichlorobenzene	12.208	146	3751704	82.51	ppb	#	86
88) n-Butylbenzene	12.149	91	10765248	86.77	ppb	#	87
89) 1,2-Dibromo-3-chloropr...	13.112	75	258911	86.41	ppb		89
90) 1,2,4,5-Tetramethylben...	13.012	119	7529700	85.11	ppb		97
91) 1,2,4-Trichlorobenzene	14.033	180	1768307	73.02	ppb		97
92) Hexachloro-1,3-Butadiene	14.200	225	634816	56.01	ppb		95
93) Naphthalene	14.320	128	3691258	58.23	ppb		98
94) 1,2,3-Trichlorobenzene	14.601	180	1246256	66.46	ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\091117A\
Data File : QV601046.D
Acq On : 11 Sep 2017 5:04 pm
InstName : MSVOA6
Operator : AS
Sample : SEQ-CAL7
Misc : QBQV6091117A ICAL 80ppb AQU
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 12 10:49:40 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon Sep 11 19:15:08 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\091117A\
Data File : QV601047.D
Acq On : 11 Sep 2017 5:30 pm
InstName : MSVOA6
Operator : AS
Sample : SEQ-CAL8
Misc : QBQV6091117A ICAL 120ppb AQU
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 12 10:54:02 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon Sep 11 19:16:10 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.145	70	217507	10.00	ppb		0.00
40) CHLOROBENZENE-d5 (ISTD)	9.200	117	811672	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	12.191	152	309851	10.00	ppb		0.01
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.845	65	238249	10.03	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.30%				
51) Toluene-d8 (SURR)	7.692	98	1194785	10.49	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.90%				
70) p-Bromofluorobenzene (...	10.469	95	379607	9.88	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.80%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.532	85	2868401	112.55	ppb		99
3) Chloromethane	1.755	50	2576880	120.37	ppb		96
4) Vinyl Chloride	1.861	62	3625728	118.68	ppb		98
5) Bromomethane	2.245	94	1875348m	171.40	ppb		
6) Chloroethane	2.370	64	1998696	113.98	ppb		99
7) Trichlorofluoromethane	2.656	101	4837364	106.82	ppb		99
8) Ethanol	2.949	45	573701	5125.81	ppb		100
9) Freon-113	3.221	101	3332014	116.38	ppb		93
10) 1,1-Dichloroethylene	3.235	61	4069635	111.79	ppb	#	80
11) Acrolein	3.163	56	272442	116.11	ppb		93
12) Acetone	3.335	43	461608	74.96	ppb		96
13) Iodomethane	3.410	142	1303216	102.03	ppb		99
14) Methyl Acetate	3.669	43	994509	95.35	ppb		96
15) Carbon disulfide	3.463	76	6686503	112.49	ppb		100
16) tert-Butyl Alcohol (TBA)	3.925	59	214312	129.22	ppb	#	97
17) Methylene Chloride	3.775	49	3025718	108.13	ppb		76
18) Acrylonitrile	4.050	53	602142	113.63	ppb	#	60
19) trans-1,2-Dichloroethy...	4.036	61	4056653	116.80	ppb		93
20) tert-Butyl Methyl Ethe...	4.025	73	8547645	120.95	ppb		99
21) 1,1-Dichloroethane	4.473	63	5241013	110.11	ppb	#	96
22) Vinyl Acetate	4.512	43	7716265	122.48	ppb	#	99
23) Diisopropyl ether (DIPE)	4.501	45	8642911	115.88	ppb		96
24) Ethyl-tert-Butyl ether...	4.857	59	9591570	120.87	ppb	#	86
25) cis-1,2-Dichloroethylene	5.044	61	5003039	115.39	ppb		96
26) 2-Butanone	5.069	72	282361	115.46	ppb	#	67
27) 2,2-Dichloropropane	5.027	77	5412447	119.19	ppb	#	83
28) Tetrahydrofuran	5.327	42	420557	98.17	ppb		83
29) Bromochloromethane	5.286	49	1719711	104.12	ppb		91
30) Chloroform	5.361	83	6260883	117.13	ppb		99
31) 1,1,1-Trichloroethane	5.514	97	5728308	119.48	ppb	#	87
32) Cyclohexane	5.544	56	5030725	116.60	ppb		89
33) 1,1-Dichloropropylene	5.670	75	5001183	120.67	ppb		79
35) Carbon Tetrachloride	5.667	117	5006026	119.70	ppb		100
36) tert-Amyl alcohol (TAA)	5.892	59	2019982	1333.32	ppb		96
37) 1,2-Dichloroethane	5.920	62	3702411	117.69	ppb		99
38) Benzene	5.878	78	13686646	114.22	ppb	#	93
39) tert-Amyl methyl ether...	5.956	73	9664200	122.09	ppb	#	92
41) Trichloroethylene	6.499	95	3825378	123.44	ppb		94
42) Methyl Cyclohexane	6.655	83	6465064	122.06	ppb		88
43) Methyl Methacrylate	6.819	69	1714942	123.88	ppb	#	68
44) Dibromomethane	6.866	93	1812730	121.98	ppb		95
45) Bromodichloromethane	7.013	83	4604411	124.61	ppb		97
46) 1,2-Dichloropropane	6.732	63	3270241	122.98	ppb		98
47) 1,4-Dioxane	6.874	88	310108	2873.53	ppb		98
48) 2-Chloroethyl vinyl ether	7.289	63	1129705	111.74	ppb		99
49) cis-1,3-Dichloropropene	7.445	75	5553136	125.58	ppb		91
50) 4-Methyl-2-Pentanone	7.584	43	1528457	107.54	ppb		87
52) Toluene	7.762	91	14979424	111.57	ppb		100

Data Path : C:\msdchem\2\DATA\091117A\
Data File : QV601047.D
Acq On : 11 Sep 2017 5:30 pm
InstName : MSVOA6
Operator : AS
Sample : SEQ-CAL8
Misc : QBQV6091117A ICAL 120ppb AQU
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 12 10:54:02 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon Sep 11 19:16:10 2017
Response via : Initial Calibration

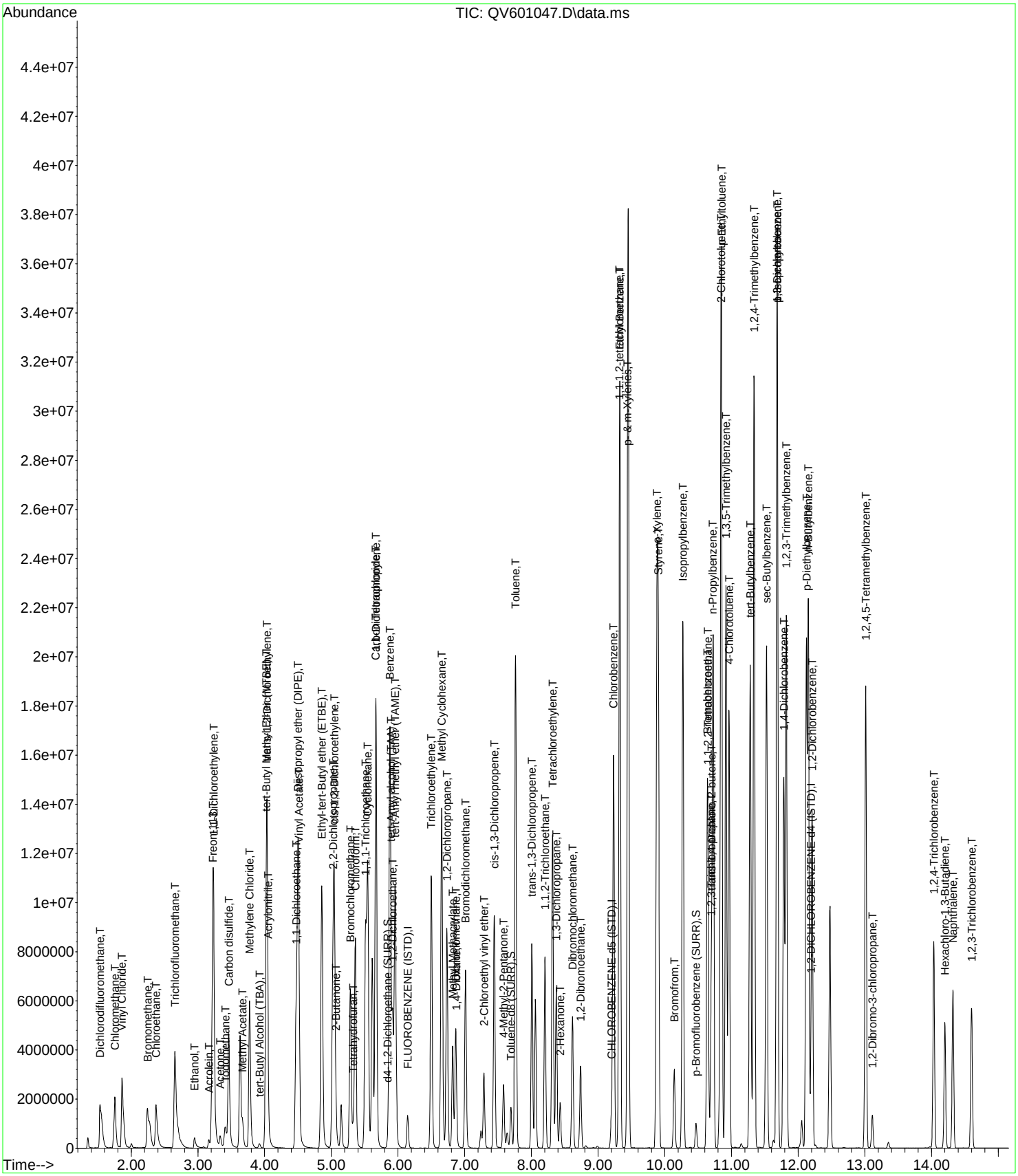
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	8.007	75	4663165	124.99	ppb		98
54) 1,1,2-Trichloroethane	8.204	97	2503706	120.64	ppb		91
55) 1,3-Dichloropropane	8.374	76	4170137	120.56	ppb	#	84
56) Tetrachloroethylene	8.318	166	3478025	112.26	ppb	#	71
57) 2-Hexanone	8.432	43	1065575	105.15	ppb	#	90
58) Dibromochloromethane	8.616	129	2792247	119.61	ppb		97
59) 1,2-Dibromoethane	8.738	107	2236400	116.70	ppb		93
60) Chlorobenzene	9.231	112	9249687	114.62	ppb		96
61) 1,1,1,2-tetrachloroethane	9.320	131	3133657	112.61	ppb		89
62) Ethyl Benzene	9.323	91	15576162	108.22	ppb		92
63) p- & m-Xylenes	9.440	91	19319999m	175.17	ppb		
64) o-Xylene	9.882	91	12949753	115.94	ppb		99
65) Styrene	9.904	104	9702095	122.43	ppb	#	77
66) Bromofrom	10.144	173	1411972	114.04	ppb	#	78
68) p-Ethyltoluene	10.850	105	15421095	108.63	ppb	#	92
69) Isopropylbenzene	10.269	105	15254596	103.77	ppb		94
71) 1,1,2,2-Tetrachloroethane	10.647	83	2691392	114.90	ppb	#	97
72) Bromobenzene	10.639	77	5541642	116.72	ppb		88
73) trans-1,4-Dichloro-2-b...	10.700	75	3006304	119.02	ppb	#	89
74) 1,2,3-Trichloropropane	10.697	110	745533	110.61	ppb	#	14
75) n-Propylbenzene	10.719	91	16982979m	97.55	ppb		
76) 2-Chlorotoluene	10.845	91	12841927	112.57	ppb		100
77) 4-Chlorotoluene	10.964	91	11344440	112.13	ppb		100
78) 1,3,5-Trimethylbenzene	10.917	105	12994887	111.32	ppb	#	96
79) tert-Butylbenzene	11.281	119	10657236	109.55	ppb		98
80) 1,2,4-Trimethylbenzene	11.340	105	13338530	111.56	ppb	#	80
81) sec-Butylbenzene	11.524	105	15552048	104.52	ppb		97
82) 1,3-Dichlorobenzene	11.682	146	6588165	114.72	ppb		94
83) p-Isopropyltoluene	11.688	119	13772337	111.33	ppb		95
84) 1,4-Dichlorobenzene	11.785	146	6210780	112.36	ppb		93
85) 1,2,3-Trimethylbenzene	11.821	105	13442754m	112.34	ppb		
86) p-Diethylbenzene	12.124	105	7769016	120.32	ppb	#	71
87) 1,2-Dichlorobenzene	12.211	146	5527790	112.25	ppb		97
88) n-Butylbenzene	12.152	91	15483317	114.10	ppb		89
89) 1,2-Dibromo-3-chloropr...	13.112	75	378621	116.61	ppb		89
90) 1,2,4,5-Tetramethylben...	13.015	119	10995793	115.06	ppb		96
91) 1,2,4-Trichlorobenzene	14.033	180	2574508	104.26	ppb		97
92) Hexachloro-1,3-Butadiene	14.200	225	936069	86.82	ppb		95
93) Naphthalene	14.320	128	5267801	79.50	ppb		98
94) 1,2,3-Trichlorobenzene	14.601	180	1801046	97.09	ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\091117A\
Data File : QV601047.D
Acq On : 11 Sep 2017 5:30 pm
InstName : MSVOA6
Operator : AS
Sample : SEQ-CAL8
Misc : QBQV6091117A ICAL 120ppb AQU
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 12 10:54:02 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon Sep 11 19:16:10 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\091117A\
Data File : QV601048.D
Acq On : 11 Sep 2017 5:57 pm
InstName : MSVOA6
Operator : AS
Sample : SEQ-CAL9
Misc : QBQV6091117A ICAL 160ppb AQU
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 12 10:56:01 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon Sep 11 19:17:50 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.140	70	217749	10.00	ppb		0.00
40) CHLOROBENZENE-d5 (ISTD)	9.200	117	803355	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	12.188	152	316216	10.00	ppb	#	0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.845	65	242054	10.22	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.20%				
51) Toluene-d8 (SURR)	7.692	98	1176117	10.30	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.00%				
70) p-Bromofluorobenzene (...	10.466	95	374765	9.27	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.70%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.530	85	3858916	150.55	ppb		99
3) Chloromethane	1.752	50	3683512	177.71	ppb		96
4) Vinyl Chloride	1.861	62	5009498	161.31	ppb		98
5) Bromomethane	2.242	94	2729217m	252.58	ppb		
6) Chloroethane	2.370	64	2744526	156.47	ppb		99
7) Trichlorofluoromethane	2.656	101	6593179	146.39	ppb		99
8) Ethanol	2.949	45	719135m	6541.75	ppb		
9) Freon-113	3.221	101	4569870	158.78	ppb		93
10) 1,1-Dichloroethylene	3.232	61	5631466	157.01	ppb	#	80
11) Acrolein	3.163	56	383860	159.98	ppb		93
12) Acetone	3.333	43	619435	104.26	ppb		96
13) Iodomethane	3.408	142	1757711	157.77	ppb		99
14) Methyl Acetate	3.669	43	1340824m	135.89	ppb		
15) Carbon disulfide	3.461	76	9226019	155.65	ppb		100
16) tert-Butyl Alcohol (TBA)	3.920	59	291185	175.42	ppb	#	97
17) Methylene Chloride	3.772	49	4211487	156.68	ppb		76
18) Acrylonitrile	4.048	53	835891	160.71	ppb	#	60
19) trans-1,2-Dichloroethy...	4.037	61	5601787	162.85	ppb		93
20) tert-Butyl Methyl Ethe...	4.025	73	11657484	164.52	ppb		99
21) 1,1-Dichloroethane	4.473	63	7226387	152.92	ppb	#	95
22) Vinyl Acetate	4.509	43	10667854	178.80	ppb	#	99
23) Diisopropyl ether (DIPE)	4.501	45	12018763	167.93	ppb		96
24) Ethyl-tert-Butyl ether...	4.857	59	13147852	166.20	ppb	#	86
25) cis-1,2-Dichloroethylene	5.046	61	6905470	160.85	ppb		96
26) 2-Butanone	5.066	72	388700	158.59	ppb	#	67
27) 2,2-Dichloropropane	5.024	77	7363591	160.30	ppb	#	82
28) Tetrahydrofuran	5.327	42	587761	145.30	ppb		86
29) Bromochloromethane	5.286	49	2377979	149.86	ppb		91
30) Chloroform	5.361	83	8436743	157.52	ppb	#	96
31) 1,1,1-Trichloroethane	5.514	97	7925913	164.79	ppb	#	73
32) Cyclohexane	5.544	56	7035065	164.42	ppb		90
33) 1,1-Dichloropropylene	5.670	75	6953472	166.45	ppb		80
35) Carbon Tetrachloride	5.667	117	6934728	166.73	ppb		100
36) tert-Amyl alcohol (TAA)	5.892	59	2691737	1768.19	ppb	#	83
37) 1,2-Dichloroethane	5.917	62	5081366	163.22	ppb		99
38) Benzene	5.873	78	17785800	147.18	ppb	#	92
39) tert-Amyl methyl ether...	5.956	73	13137856	164.80	ppb	#	89
41) Trichloroethylene	6.499	95	5312787	172.67	ppb		94
42) Methyl Cyclohexane	6.657	83	9062625	172.06	ppb		88
43) Methyl Methacrylate	6.819	69	2329355	171.85	ppb	#	68
44) Dibromomethane	6.866	93	2401976	163.95	ppb	#	66
45) Bromodichloromethane	7.013	83	6313320	173.62	ppb		97
46) 1,2-Dichloropropane	6.732	63	4498310	172.43	ppb		98
47) 1,4-Dioxane	6.874	88	372468	3425.69	ppb		98
48) 2-Chloroethyl vinyl ether	7.289	63	1531481	157.54	ppb		99
49) cis-1,3-Dichloropropene	7.445	75	7505543	171.18	ppb		91
50) 4-Methyl-2-Pentanone	7.581	43	2038844	155.42	ppb		87
52) Toluene	7.756	91	18042834m	136.31	ppb		

Data Path : C:\msdchem\2\DATA\091117A\
Data File : QV601048.D
Acq On : 11 Sep 2017 5:57 pm
InstName : MSVOA6
Operator : AS
Sample : SEQ-CAL9
Misc : QBQV6091117A ICAL 160ppb AQU
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 12 10:56:01 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon Sep 11 19:17:50 2017
Response via : Initial Calibration

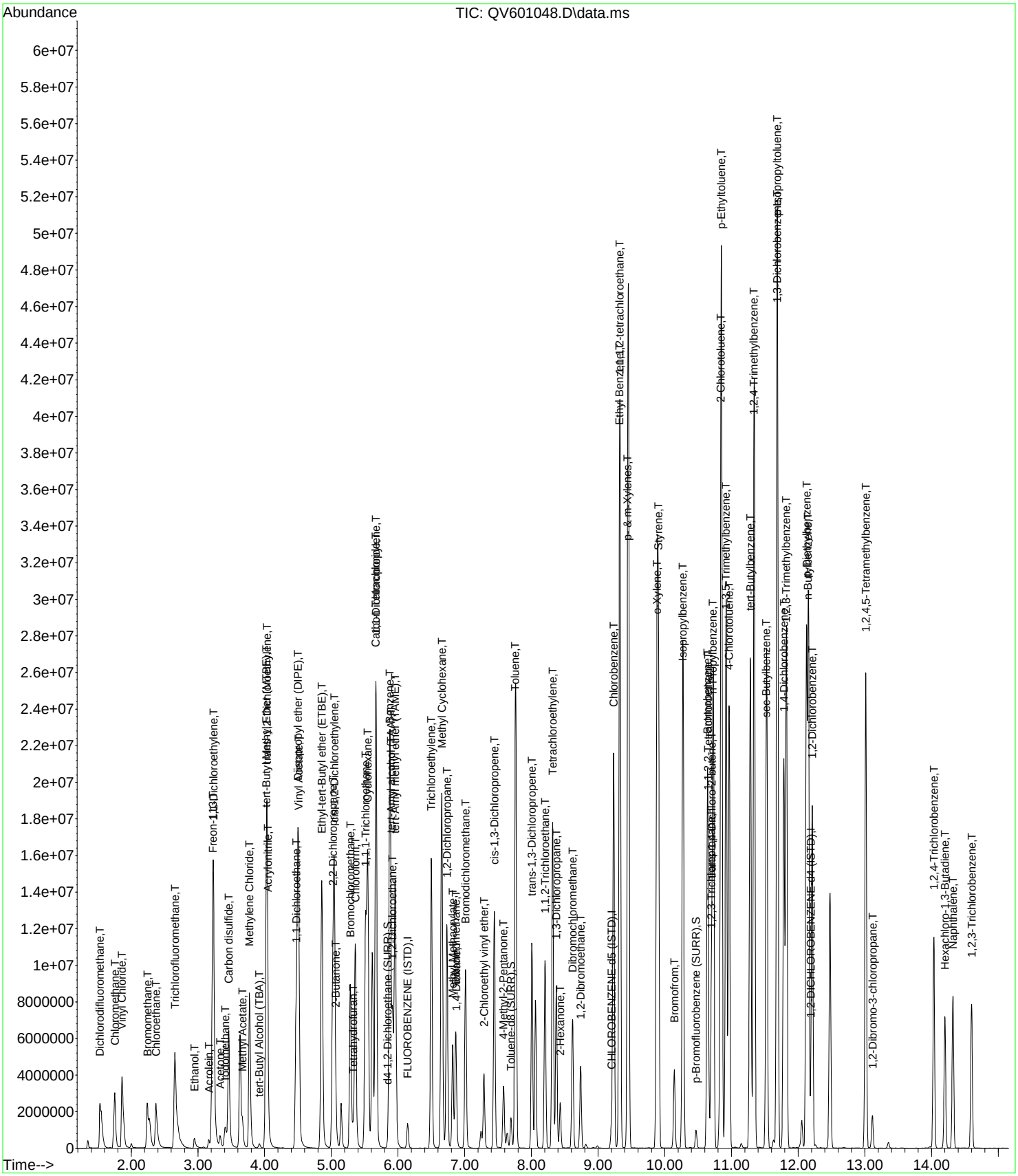
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	8.007	75	6287236	170.26	ppb		98
54) 1,1,2-Trichloroethane	8.204	97	3372277	163.03	ppb		91
55) 1,3-Dichloropropane	8.374	76	5562896	161.83	ppb	#	84
56) Tetrachloroethylene	8.318	166	4794382	161.72	ppb	#	71
57) 2-Hexanone	8.432	43	1404630	149.28	ppb	#	91
58) Dibromochloromethane	8.616	129	3729377	164.80	ppb		97
59) 1,2-Dibromoethane	8.738	107	2965236	156.57	ppb		92
60) Chlorobenzene	9.234	112	12276136	154.34	ppb		96
61) 1,1,1,2-tetrachloroethane	9.323	131	4246000	158.11	ppb		88
62) Ethyl Benzene	9.320	91	18025815m	127.59	ppb		
63) p- & m-Xylenes	9.440	91	21452058m	202.55	ppb		
64) o-Xylene	9.879	91	16674550	151.18	ppb		98
65) Styrene	9.904	104	12981639	165.06	ppb	#	77
66) Bromofrom	10.144	173	1902379	161.82	ppb	#	78
68) p-Ethyltoluene	10.845	105	18724835m	126.57	ppb		
69) Isopropylbenzene	10.266	105	18214256m	119.26	ppb		
71) 1,1,2,2-Tetrachloroethane	10.650	83	3629428	148.09	ppb	#	97
72) Bromobenzene	10.639	77	7540716	151.25	ppb		88
73) trans-1,4-Dichloro-2-b...	10.703	75	4059585	153.46	ppb	#	88
74) 1,2,3-Trichloropropane	10.697	110	994293	141.49	ppb	#	67
75) n-Propylbenzene	10.717	91	19543134m	108.85	ppb		
76) 2-Chlorotoluene	10.839	91	16714110m	140.62	ppb		
77) 4-Chlorotoluene	10.961	91	15336022m	145.33	ppb		
78) 1,3,5-Trimethylbenzene	10.914	105	16220922m	133.43	ppb		
79) tert-Butylbenzene	11.281	119	14597597	144.60	ppb		97
80) 1,2,4-Trimethylbenzene	11.334	105	16554832m	133.08	ppb		
81) sec-Butylbenzene	11.518	105	18474851m	119.79	ppb		
82) 1,3-Dichlorobenzene	11.685	146	9277817	157.11	ppb		94
83) p-Isopropyltoluene	11.682	119	17275311m	135.01	ppb		
84) 1,4-Dichlorobenzene	11.785	146	8634040	151.79	ppb		93
85) 1,2,3-Trimethylbenzene	11.818	105	16867910m	135.87	ppb		
86) p-Diethylbenzene	12.124	105	11046525	163.90	ppb	#	71
87) 1,2-Dichlorobenzene	12.211	146	7672787	151.83	ppb	#	86
88) n-Butylbenzene	12.147	91	19665985m	139.92	ppb		
89) 1,2-Dibromo-3-chloropr...	13.115	75	507573	152.16	ppb		88
90) 1,2,4,5-Tetramethylben...	13.012	119	14822794	151.46	ppb		94
91) 1,2,4-Trichlorobenzene	14.036	180	3541284	147.78	ppb		97
92) Hexachloro-1,3-Butadiene	14.200	225	1348992	138.86	ppb		95
93) Naphthalene	14.320	128	6931046	105.39	ppb		98
94) 1,2,3-Trichlorobenzene	14.601	180	2449731	140.65	ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\091117A\
Data File : QV601048.D
Acq On : 11 Sep 2017 5:57 pm
InstName : MSVOA6
Operator : AS
Sample : SEQ-CAL9
Misc : QBQV6091117A ICAL 160ppb AQU
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 12 10:56:01 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Mon Sep 11 19:17:50 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\091117A\
Data File : QV601050.D
Acq On : 11 Sep 2017 6:50 pm
InstName : MSVOA6
Operator : AS
Sample : SEQ-SCV1
Misc : QBQV6091117A ICV 10ppb AQU
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 12 11:58:55 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 11:12:10 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.145	70	200008	10.00	ppb		0.00
40) CHLOROBENZENE-d5 (ISTD)	9.200	117	810679	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	12.183	152	274796	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.842	65	218418	10.06	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.60%				
51) Toluene-d8 (SURR)	7.692	98	1131009	9.75	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.50%				
70) p-Bromofluorobenzene (...	10.466	95	371081	10.28	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.80%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.530	85	255980	10.77	ppb		99
3) Chloromethane	1.755	50	203157	10.88	ppb		95
4) Vinyl Chloride	1.861	62	325427	11.15	ppb		98
5) Bromomethane	2.247	94	99874	9.86	ppb		95
6) Chloroethane	2.373	64	169319	10.42	ppb		99
7) Trichlorofluoromethane	2.654	101	438125	10.59	ppb		100
8) Ethanol	2.960	45	43290m	418.24	ppb		
9) Freon-113	3.224	101	275427	10.30	ppb	#	77
10) 1,1-Dichloroethylene	3.235	61	350973	10.73	ppb	#	80
11) Acrolein	3.166	56	20227	9.18	ppb		93
12) Acetone	3.344	43	53904	8.94	ppb		96
13) Iodomethane	3.410	142	75839m	6.89	ppb		
14) Methyl Acetate	3.675	43	82671m	10.64	ppb		
15) Carbon disulfide	3.460	76	614116	11.23	ppb		100
16) tert-Butyl Alcohol (TBA)	3.928	59	15740	10.28	ppb	#	97
17) Methylene Chloride	3.775	49	247243	10.27	ppb		76
18) Acrylonitrile	4.050	53	45708	9.46	ppb	#	60
19) trans-1,2-Dichloroethy...	4.036	61	339571	10.76	ppb		93
20) tert-Butyl Methyl Ethe...	4.025	73	697881	10.64	ppb		99
21) 1,1-Dichloroethane	4.468	63	480398	11.06	ppb		99
22) Vinyl Acetate	4.512	43	595083	10.43	ppb	#	99
23) Diisopropyl ether (DIPE)	4.501	45	674133	10.58	ppb	#	93
24) Ethyl-tert-Butyl ether...	4.857	59	764743	10.49	ppb	#	86
25) cis-1,2-Dichloroethylene	5.044	61	414749	10.53	ppb		95
26) 2-Butanone	5.069	72	23886	10.00	ppb		83
27) 2,2-Dichloropropane	5.024	77	462460	10.78	ppb		98
28) Tetrahydrofuran	5.341	42	35789	10.10	ppb		83
29) Bromochloromethane	5.283	49	159263	11.15	ppb		90
30) Chloroform	5.361	83	533055	10.74	ppb		99
31) 1,1,1-Trichloroethane	5.511	97	473813	10.62	ppb		99
32) Cyclohexane	5.542	56	418143	10.63	ppb		89
33) 1,1-Dichloropropylene	5.667	75	404501	10.38	ppb		78
35) Carbon Tetrachloride	5.664	117	409048	10.70	ppb	#	92
36) tert-Amyl alcohol (TAA)	5.892	59	148257	105.26	ppb	#	83
37) 1,2-Dichloroethane	5.917	62	294767	10.36	ppb	#	98
38) Benzene	5.875	78	1199841	10.72	ppb	#	90
39) tert-Amyl methyl ether...	5.959	73	769298	10.34	ppb		98
41) Trichloroethylene	6.499	95	319008	10.19	ppb		94
42) Methyl Cyclohexane	6.654	83	548455	10.23	ppb		87
43) Methyl Methacrylate	6.816	69	137584	10.11	ppb		92
44) Dibromomethane	6.863	93	155675	10.54	ppb		95
45) Bromodichloromethane	7.013	83	383131	10.44	ppb		97
46) 1,2-Dichloropropane	6.732	63	269341	10.25	ppb	#	90
47) 1,4-Dioxane	6.877	88	22392	200.11	ppb	#	84
48) 2-Chloroethyl vinyl ether	7.283	63	97702	10.19	ppb		100
49) cis-1,3-Dichloropropene	7.445	75	458351	10.29	ppb		92
50) 4-Methyl-2-Pentanone	7.581	43	129952	10.48	ppb		86
52) Toluene	7.759	91	1371042	10.39	ppb		99

Data Path : C:\msdchem\2\DATA\091117A\
Data File : QV601050.D
Acq On : 11 Sep 2017 6:50 pm
InstName : MSVOA6
Operator : AS
Sample : SEQ-SCV1
Misc : QBQV6091117A ICV 10ppb AQU
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 12 11:58:55 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 11:12:10 2017
Response via : Initial Calibration

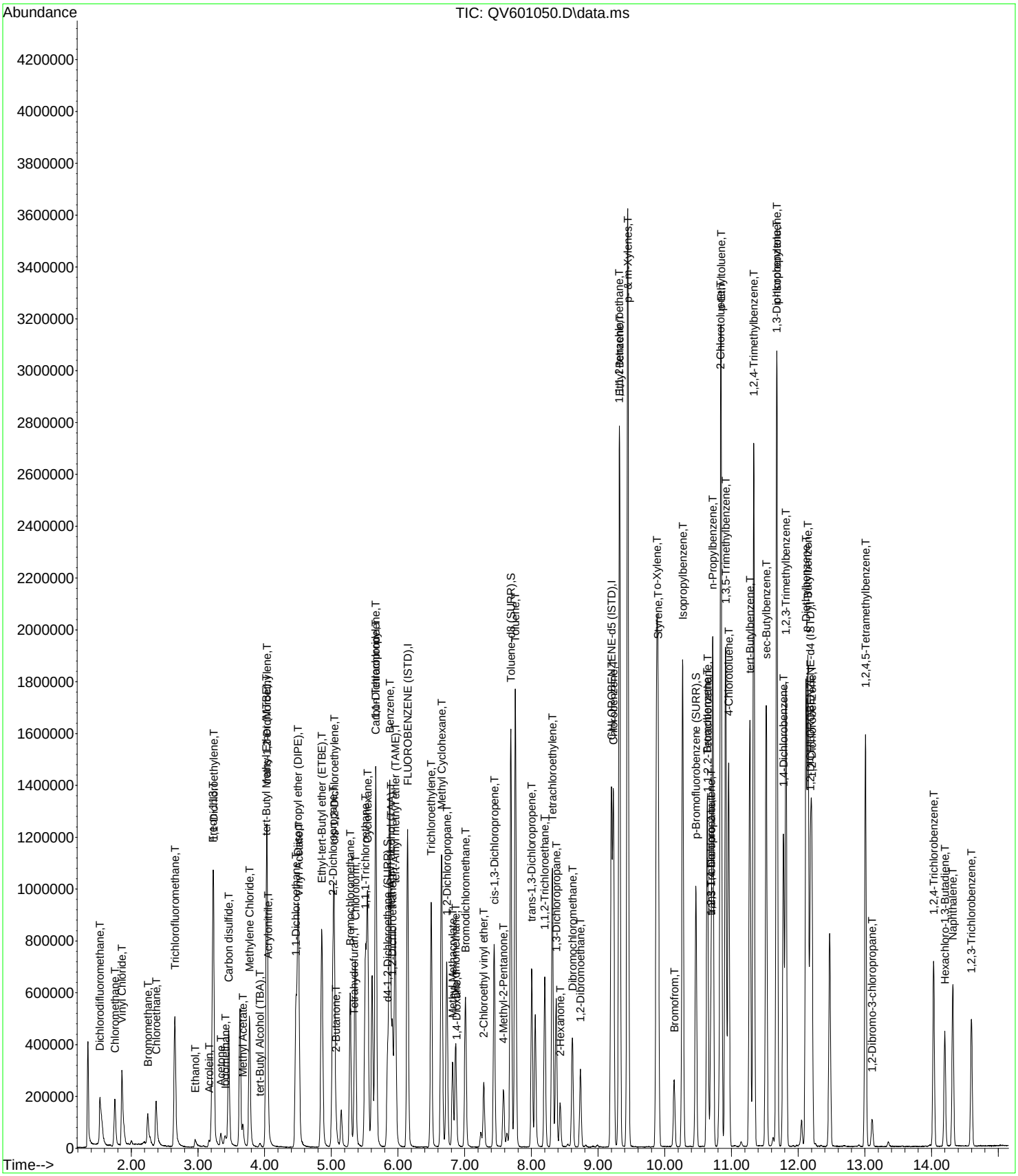
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	8.004	75	388962	10.39	ppb	#	92
54) 1,1,2-Trichloroethane	8.199	97	211656	10.03	ppb		90
55) 1,3-Dichloropropane	8.371	76	364112	10.40	ppb	#	83
56) Tetrachloroethylene	8.315	166	300841	10.36	ppb	#	71
57) 2-Hexanone	8.432	43	99897	11.20	ppb	#	89
58) Dibromochloromethane	8.616	129	227512	10.14	ppb		97
59) 1,2-Dibromoethane	8.736	107	202669	10.58	ppb		93
60) Chlorobenzene	9.231	112	807460	10.07	ppb		96
61) 1,1,1,2-tetrachloroethane	9.317	131	259268	9.66	ppb		89
62) Ethyl Benzene	9.323	91	1512263	10.83	ppb		99
63) p- & m-Xylenes	9.445	91	2265433	22.18	ppb		96
64) o-Xylene	9.879	91	1110833	10.03	ppb		100
65) Styrene	9.901	104	862607	10.83	ppb	#	77
66) Bromofrom	10.143	173	119403	10.51	ppb	#	79
68) p-Ethyltoluene	10.845	105	1400954	10.77	ppb	#	68
69) Isopropylbenzene	10.269	105	1400895	10.45	ppb		94
71) 1,1,2,2-Tetrachloroethane	10.644	83	226508	10.33	ppb	#	97
72) Bromobenzene	10.636	77	483884	10.82	ppb		88
73) trans-1,4-Dichloro-2-b...	10.694	75	254228	10.65	ppb	#	74
74) 1,2,3-Trichloropropane	10.694	110	64961	10.38	ppb	#	70
75) n-Propylbenzene	10.719	91	1667405	10.68	ppb		97
76) 2-Chlorotoluene	10.836	91	1077336	10.23	ppb		100
77) 4-Chlorotoluene	10.956	91	967800	10.30	ppb		99
78) 1,3,5-Trimethylbenzene	10.914	105	1176114	10.92	ppb	#	98
79) tert-Butylbenzene	11.276	119	897212	10.03	ppb		99
80) 1,2,4-Trimethylbenzene	11.334	105	1191592	10.78	ppb	#	85
81) sec-Butylbenzene	11.521	105	1369775	10.16	ppb		99
82) 1,3-Dichlorobenzene	11.676	146	511295	9.84	ppb		95
83) p-Isopropyltoluene	11.679	119	1194826	10.68	ppb		98
84) 1,4-Dichlorobenzene	11.779	146	500457	9.99	ppb		93
85) 1,2,3-Trimethylbenzene	11.816	105	1161198m	10.11	ppb		
86) p-Diethylbenzene	12.116	105	658313	10.93	ppb	#	37
87) 1,2-Dichlorobenzene	12.205	146	441617	9.94	ppb	#	86
88) n-Butylbenzene	12.147	91	1352959	10.97	ppb		89
89) 1,2-Dibromo-3-chloropr...	13.107	75	29927	10.25	ppb		90
90) 1,2,4,5-Tetramethylben...	13.009	119	918394	10.75	ppb		98
91) 1,2,4-Trichlorobenzene	14.030	180	220596	11.14	ppb		97
92) Hexachloro-1,3-Butadiene	14.200	225	83744	11.42	ppb		95
93) Naphthalene	14.317	128	522306	9.43	ppb		98
94) 1,2,3-Trichlorobenzene	14.595	180	150888	10.78	ppb		94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\091117A\
Data File : QV601050.D
Acq On : 11 Sep 2017 6:50 pm
InstName : MSVOA6
Operator : AS
Sample : SEQ-SCV1
Misc : QBQV6091117A ICV 10ppb AQU
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 12 11:58:55 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 11:12:10 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601430.D
Acq On : 27 Sep 2017 1:19 pm
InstName : MSVOA6
Operator : AS
Sample : SEQ-CCV1
Misc : QBQV6092717A CCV AQU
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 17:19:38 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 11:12:10 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.140	70	178838	10.00	ppb		0.00
40) CHLOROBENZENE-d5 (ISTD)	9.198	117	777221	10.00	ppb	#	0.00
67) 1,2-DICHLOROBENZENE-d4...	12.183	152	257816	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.842	65	187852	9.68	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.80%				
51) Toluene-d8 (SURR)	7.692	98	1052195	9.46	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.60%				
70) p-Bromofluorobenzene (...	10.466	95	354253	10.46	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.60%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.530	85	220148	10.36	ppb		99
3) Chloromethane	1.755	50	87162	5.22	ppb		98
4) Vinyl Chloride	1.858	62	252673	9.68	ppb	#	76
5) Bromomethane	2.247	94	5781m	3.02	ppb		
6) Chloroethane	2.370	64	152616	10.51	ppb		99
7) Trichlorofluoromethane	2.651	101	338360	9.14	ppb		100
8) Ethanol	2.957	45	41279m	454.03	ppb		
9) Freon-113	3.224	101	235066	9.83	ppb		93
10) 1,1-Dichloroethylene	3.232	61	290597	9.94	ppb	#	78
11) Acrolein	3.168	56	22564	11.45	ppb		94
12) Acetone	3.344	43	45924	8.19	ppb		96
13) Iodomethane	3.399	142	7437	1.58	ppb		98
14) Methyl Acetate	3.672	43	69896	10.06	ppb	#	95
15) Carbon disulfide	3.461	76	569529	11.64	ppb		100
16) tert-Butyl Alcohol (TBA)	3.928	59	17928m	13.10	ppb		
17) Methylene Chloride	3.772	49	215921	10.03	ppb	#	75
18) Acrylonitrile	4.050	53	41205	9.54	ppb	#	62
19) trans-1,2-Dichloroethy...	4.036	61	278314	9.87	ppb	#	84
20) tert-Butyl Methyl Ethe...	4.025	73	593407	10.12	ppb	#	95
21) 1,1-Dichloroethane	4.470	63	405131	10.43	ppb	#	88
22) Vinyl Acetate	4.512	43	509375	9.98	ppb		100
23) Diisopropyl ether (DIPE)	4.498	45	593228	10.42	ppb		96
24) Ethyl-tert-Butyl ether...	4.854	59	651663	10.00	ppb	#	86
25) cis-1,2-Dichloroethylene	5.044	61	351004	9.97	ppb		94
26) 2-Butanone	5.077	72	19334	9.05	ppb		87
27) 2,2-Dichloropropane	5.024	77	382968	9.98	ppb	#	90
28) Tetrahydrofuran	5.339	42	28857	9.10	ppb	#	68
29) Bromochloromethane	5.283	49	131436	10.29	ppb		91
30) Chloroform	5.358	83	444708	10.02	ppb	#	70
31) 1,1,1-Trichloroethane	5.511	97	394526	9.89	ppb	#	86
32) Cyclohexane	5.544	56	359085	10.21	ppb		88
33) 1,1-Dichloropropylene	5.667	75	347744	9.98	ppb		96
35) Carbon Tetrachloride	5.664	117	278786	8.16	ppb		100
36) tert-Amyl alcohol (TAA)	5.895	59	127430	101.18	ppb		96
37) 1,2-Dichloroethane	5.917	62	255080	10.02	ppb	#	85
38) Benzene	5.876	78	1034035	10.33	ppb	#	90
39) tert-Amyl methyl ether...	5.953	73	686006	10.31	ppb		98
41) Trichloroethylene	6.496	95	274448	9.15	ppb		94
42) Methyl Cyclohexane	6.649	83	479931	9.34	ppb		86
43) Methyl Methacrylate	6.819	69	120570	9.24	ppb	#	68
44) Dibromomethane	6.866	93	132277	9.34	ppb	#	70
45) Bromodichloromethane	7.008	83	318140	9.04	ppb		97
46) 1,2-Dichloropropane	6.732	63	242792	9.64	ppb	#	80
47) 1,4-Dioxane	6.872	88	22624	210.88	ppb		98
49) cis-1,3-Dichloropropene	7.442	75	394197	9.23	ppb		89
50) 4-Methyl-2-Pentanone	7.581	43	116415	9.79	ppb		86
52) Toluene	7.759	91	1197264	9.46	ppb		99
53) trans-1,3-Dichloropropene	8.004	75	331222	9.23	ppb		99

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601430.D
Acq On : 27 Sep 2017 1:19 pm
InstName : MSVOA6
Operator : AS
Sample : SEQ-CCV1
Misc : QBQV6092717A CCV AQU
ALS Vial : 4 Sample Multiplier: 1

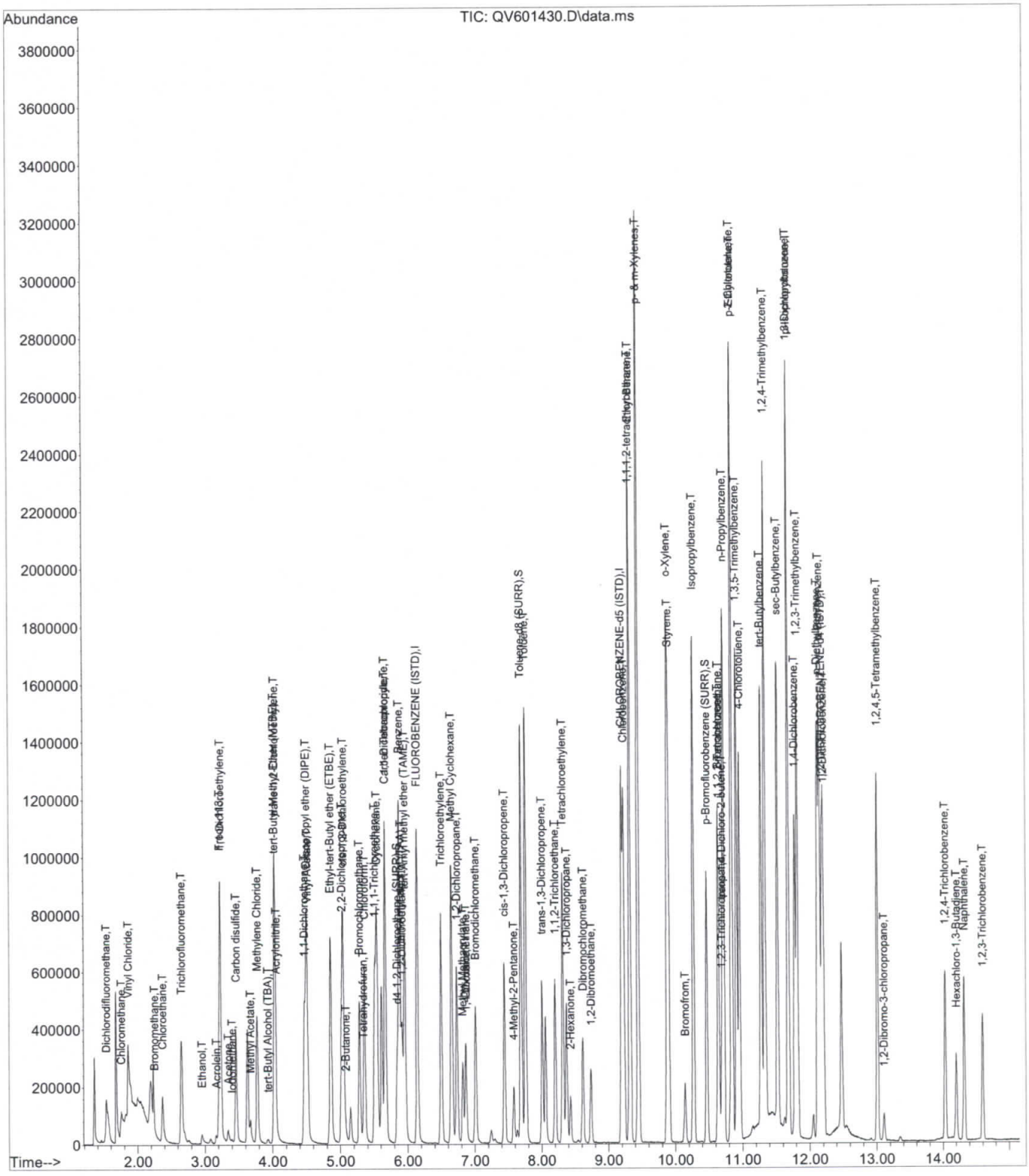
Quant Time: Sep 27 17:19:38 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 11:12:10 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) 1,1,2-Trichloroethane	8.201	97	193701	9.58	ppb		91
55) 1,3-Dichloropropane	8.371	76	327078	9.74	ppb		93
56) Tetrachloroethylene	8.313	166	264291	9.49	ppb	#	71
57) 2-Hexanone	8.430	43	89476	10.46	ppb	#	88
58) Dibromochloromethane	8.616	129	195812	9.10	ppb		97
59) 1,2-Dibromoethane	8.738	107	177544	9.67	ppb		92
60) Chlorobenzene	9.231	112	731090	9.51	ppb		96
61) 1,1,1,2-tetrachloroethane	9.314	131	227455	8.84	ppb		89
62) Ethyl Benzene	9.323	91	1333163	9.96	ppb		98
63) p- & m-Xylenes	9.445	91	2021414	20.65	ppb		96
64) o-Xylene	9.879	91	1024132	9.64	ppb		100
65) Styrene	9.899	104	731549	9.58	ppb	#	77
66) Bromofrom	10.141	173	95328	8.75	ppb		98
68) p-Ethyltoluene	10.845	105	1251280	10.25	ppb	#	68
69) Isopropylbenzene	10.269	105	1327633	10.56	ppb		94
71) 1,1,2,2-Tetrachloroethane	10.644	83	210186	10.22	ppb	#	97
72) Bromobenzene	10.636	77	414553	9.88	ppb		87
73) trans-1,4-Dichloro-2-b...	10.697	75	218414	9.76	ppb		92
74) 1,2,3-Trichloropropane	10.689	110	59436	10.12	ppb	#	80
75) n-Propylbenzene	10.719	91	1569571	10.72	ppb		97
76) 2-Chlorotoluene	10.839	91	989608	10.02	ppb		100
77) 4-Chlorotoluene	10.959	91	901747	10.23	ppb		99
78) 1,3,5-Trimethylbenzene	10.911	105	1033391	10.22	ppb		99
79) tert-Butylbenzene	11.273	119	850261	10.13	ppb		97
80) 1,2,4-Trimethylbenzene	11.334	105	1031222	9.94	ppb	#	83
81) sec-Butylbenzene	11.521	105	1306062	10.33	ppb		99
82) 1,3-Dichlorobenzene	11.677	146	472626	9.70	ppb		97
83) p-Isopropyltoluene	11.682	119	1038030	9.89	ppb		98
84) 1,4-Dichlorobenzene	11.779	146	464660	9.89	ppb		95
85) 1,2,3-Trimethylbenzene	11.816	105	1030302	9.56	ppb		95
86) p-Diethylbenzene	12.119	105	544456	9.63	ppb	#	34
87) 1,2-Dichlorobenzene	12.205	146	409801	9.84	ppb		97
88) n-Butylbenzene	12.147	91	1138848	9.85	ppb		88
89) 1,2-Dibromo-3-chloropr...	13.107	75	26524	9.68	ppb		87
90) 1,2,4,5-Tetramethylben...	13.009	119	771510	9.62	ppb		98
91) 1,2,4-Trichlorobenzene	14.030	180	187489	10.10	ppb		98
92) Hexachloro-1,3-Butadiene	14.203	225	56025	8.14	ppb		94
93) Naphthalene	14.320	128	472959	9.02	ppb		98
94) 1,2,3-Trichlorobenzene	14.598	180	137463	10.47	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601430.D
Acq On : 27 Sep 2017 1:19 pm
InstName : MSVOA6
Operator : AS
Sample : SEQ-CCV1
Misc : QBQV6092717A CCV AQU
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 17:19:38 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 11:12:10 2017
Response via : Initial Calibration



Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601430.D
Acq On : 27 Sep 2017 1:19 pm
InstName : MSVOA6
Operator : AS
Sample : SEQ-CCV1
Misc : QBQV6092717A CCV AQU
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 17:19:38 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 11:12:10 2017
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE (ISTD)	1.000	1.000	0.0	95	0.00
2	T	Dichlorodifluoromethane	1.188	1.231	-3.6	94	0.00
3	T	Chloromethane	0.934	0.487	47.8#	53	0.00
4	T	Vinyl Chloride	1.460	1.413	3.2	91	0.00
5	T	Bromomethane	0.506	0.032	93.6#	8#	0.00
6	T	Chloroethane	0.812	0.853	-5.1	98	0.00
7	T	Trichlorofluoromethane	2.069	1.892	8.6	83	0.00
8	T	Ethanol	0.005	0.005	16.4	74	0.00
9	T	Freon-113	1.337	1.314	1.7	91	0.00
10	T	1,1-Dichloroethylene	1.635	1.625	0.6	92	0.00
11	T	Acrolein	0.110	0.126	-14.5	112	0.00
12	T	Acetone	0.288	0.257	10.9	68	0.00
13	T	Iodomethane	0.461	0.042	91.0#	8#	0.00
14	T	Methyl Acetate	0.388	0.391	-0.6	94	0.00
15	T	Carbon disulfide	2.735	3.185	-16.4	108	0.00
16	T	tert-Butyl Alcohol (TBA)	0.076	0.100	-31.0#	130	0.00
17	T	Methylene Chloride	1.204	1.207	-0.3	96	0.00
18	T	Acrylonitrile	0.241	0.230	4.6	97	0.00
19	T	trans-1,2-Dichloroethylene	1.577	1.556	1.3	94	0.00
20	T	tert-Butyl Methyl Ether (MT	3.278	3.318	-1.2	96	0.00
21	T	1,1-Dichloroethane	2.172	2.265	-4.3	97	0.00
22	T	Vinyl Acetate	2.853	2.848	0.2	95	0.00
23	T	Diisopropyl ether (DIPE)	3.185	3.317	-4.2	101	0.00
24	T	Ethyl-tert-Butyl ether (ETB	3.645	3.644	0.0	96	0.00
25	T	cis-1,2-Dichloroethylene	1.969	1.963	0.3	96	0.00
26	T	2-Butanone	0.119	0.108	9.5	82	0.00
27	T	2,2-Dichloropropane	2.145	2.141	0.2	95	0.00
28	T	Tetrahydrofuran	0.177	0.161	8.9	94	0.00
29	T	Bromochloromethane	0.714	0.735	-2.9	95	0.00
30	T	Chloroform	2.481	2.487	-0.2	94	0.00
31	T	1,1,1-Trichloroethane	2.231	2.206	1.1	92	0.00
32	T	Cyclohexane	1.967	2.008	-2.1	96	0.00
33	T	1,1-Dichloropropylene	1.948	1.944	0.2	94	0.00
34	S	d4-1,2-Dichloroethane (SURR	1.085	1.050	3.2	93	0.00
35	T	Carbon Tetrachloride	1.912	1.559	18.4	77	0.00
36	T	tert-Amyl alcohol (TAA)	0.070	0.071	-1.3	100	0.00
37	T	1,2-Dichloroethane	1.423	1.426	-0.2	93	0.00
38	T	Benzene	5.597	5.782	-3.3	96	0.00
39	T	tert-Amyl methyl ether (TAM	3.721	3.836	-3.1	97	0.00
40	I	CHLOROBENZENE-d5 (ISTD)	1.000	1.000	0.0	102	0.00
41	T	Trichloroethylene	0.386	0.353	8.5	95	0.00
42	T	Methyl Cyclohexane	0.661	0.618	6.6	95	0.00
43	T	Methyl Methacrylate	0.168	0.155	7.6	96	0.00
44	T	Dibromomethane	0.182	0.170	6.6	97	0.00
45	T	Bromodichloromethane	0.453	0.409	9.6	94	0.00
46	T	1,2-Dichloropropane	0.324	0.312	3.6	100	0.00
47	T	1,4-Dioxane	0.001	0.002	-7.1	117	0.00
48	T	2-Chloroethyl vinyl ether	0.118	0.002	98.6#	1#	0.01
49	T	cis-1,3-Dichloropropene	0.550	0.507	7.7	94	0.00
50	T	4-Methyl-2-Pentanone	0.153	0.150	2.0	101	0.00
51	S	Toluene-d8 (SURR)	1.432	1.354	5.4	98	0.00
52	T	Toluene	1.628	1.540	5.4	96	0.00
53	T	trans-1,3-Dichloropropene	0.462	0.426	7.7	94	0.00
54	T	1,1,2-Trichloroethane	0.260	0.249	4.3	96	0.00
55	T	1,3-Dichloropropane	0.432	0.421	2.6	97	0.00
56	T	Tetrachloroethylene	0.358	0.340	5.1	96	0.00
57	T	2-Hexanone	0.110	0.115	-4.5	104	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601430.D
Acq On : 27 Sep 2017 1:19 pm
InstName : MSVOA6
Operator : AS
Sample : SEQ-CCV1
Misc : QBQV6092717A CCV AQU
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 17:19:38 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 11:12:10 2017
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
58	T	Dibromochloromethane	0.277	0.252	9.0	91	0.00
59	T	1,2-Dibromoethane	0.236	0.228	3.3	95	0.00
60	T	Chlorobenzene	0.989	0.941	4.9	95	0.00
61	T	1,1,1,2-tetrachloroethane	0.331	0.293	11.6	93	0.00
62	T	Ethyl Benzene	1.722	1.715	0.4	96	0.00
63	T	p- & m-Xylenes	1.260	1.300	-3.2	96	0.00
64	T	o-Xylene	1.367	1.318	3.6	96	0.00
65	T	Styrene	0.983	0.941	4.2	97	0.00
66	T	Bromofrom	0.140	0.123	12.5	91	0.00
67	I	1,2-DICHLOROBENZENE-d4 (IST	1.000	1.000	0.0	100	0.00
68	T	p-Ethyltoluene	4.736	4.853	-2.5	96	0.00
69	T	Isopropylbenzene	4.878	5.149	-5.6	97	0.00
70	S	p-Bromofluorobenzene (SURR)	1.314	1.374	-4.6	103	0.00
71	T	1,1,2,2-Tetrachloroethane	0.798	0.815	-2.2	98	0.00
72	T	Bromobenzene	1.628	1.608	1.2	95	0.00
73	T	trans-1,4-Dichloro-2-butene	0.868	0.847	2.4	93	0.01
74	T	1,2,3-Trichloropropane	0.228	0.231	-1.2	96	0.00
75	T	n-Propylbenzene	5.680	6.088	-7.2	97	0.00
76	T	2-Chlorotoluene	3.832	3.838	-0.2	96	0.00
77	T	4-Chlorotoluene	3.420	3.498	-2.3	98	0.00
78	T	1,3,5-Trimethylbenzene	3.921	4.008	-2.2	95	0.00
79	T	tert-Butylbenzene	3.255	3.298	-1.3	97	0.00
80	T	1,2,4-Trimethylbenzene	4.023	4.000	0.6	95	0.00
81	T	sec-Butylbenzene	4.904	5.066	-3.3	96	0.00
82	T	1,3-Dichlorobenzene	1.891	1.833	3.0	94	0.00
83	T	p-Isopropyltoluene	4.070	4.026	1.1	94	0.00
84	T	1,4-Dichlorobenzene	1.823	1.802	1.1	95	0.00
85	T	1,2,3-Trimethylbenzene	4.179	3.996	4.4	94	0.02
86	T	p-Diethylbenzene	2.192	2.112	3.7	93	0.00
87	T	1,2-Dichlorobenzene	1.616	1.589	1.6	95	0.00
88	T	n-Butylbenzene	4.486	4.417	1.5	92	0.00
89	T	1,2-Dibromo-3-chloropropane	0.106	0.103	3.2	97	0.00
90	T	1,2,4,5-Tetramethylbenzene	3.110	2.993	3.8	92	0.00
91	T	1,2,4-Trichlorobenzene	0.720	0.727	-1.0	97	0.00
92	T	Hexachloro-1,3-Butadiene	0.267	0.217	18.6	80	0.01
93	T	Naphthalene	2.027	1.835	9.5	86	0.00
94	T	1,2,3-Trichlorobenzene	0.509	0.533	-4.7	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601457.D
Acq On : 28 Sep 2017 2:12 am
InstName : MSVOA6
Operator : AS
Sample : SEQ-CCV1
Misc : QBQV6092717B CCV AQU
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Sep 28 10:27:46 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 11:12:10 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.143	70	187084	10.00	ppb		0.00
40) CHLOROBENZENE-d5 (ISTD)	9.195	117	813368	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	12.180	152	282797	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.839	65	199552	9.83	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.30%				
51) Toluene-d8 (SURR)	7.690	98	1097514	9.43	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.30%				
70) p-Bromofluorobenzene (...	10.464	95	384888	10.36	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.60%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.530	85	210794	9.48	ppb	#	91
3) Chloromethane	1.755	50	101058	5.78	ppb		97
4) Vinyl Chloride	1.858	62	219197	8.03	ppb	#	96
5) Bromomethane	2.248	94	19327m	4.15	ppb		
6) Chloroethane	2.370	64	162108	10.67	ppb		99
7) Trichlorofluoromethane	2.654	101	374633	9.68	ppb		99
8) Ethanol	2.951	45	44394m	470.16	ppb		
9) Freon-113	3.221	101	229157	9.17	ppb	#	67
10) 1,1-Dichloroethylene	3.232	61	296277	9.69	ppb	#	81
11) Acrolein	3.166	56	22550	10.94	ppb		95
12) Acetone	3.347	43	31391m	2.90	ppb		
13) Iodomethane	3.399	142	7323m	1.55	ppb		
14) Methyl Acetate	3.672	43	74347m	10.23	ppb		
15) Carbon disulfide	3.458	76	499912	9.77	ppb		100
16) tert-Butyl Alcohol (TBA)	3.925	59	20617	14.40	ppb	#	97
17) Methylene Chloride	3.772	49	220507	9.79	ppb	#	74
18) Acrylonitrile	4.048	53	39514	8.75	ppb	#	60
19) trans-1,2-Dichloroethy...	4.034	61	280917	9.52	ppb	#	83
20) tert-Butyl Methyl Ethe...	4.025	73	591399	9.64	ppb		99
21) 1,1-Dichloroethane	4.468	63	407346	10.02	ppb	#	88
22) Vinyl Acetate	4.507	43	492143	9.22	ppb		100
23) Diisopropyl ether (DIPE)	4.496	45	614982	10.32	ppb		96
24) Ethyl-tert-Butyl ether...	4.854	59	656988	9.63	ppb	#	86
25) cis-1,2-Dichloroethylene	5.041	61	354543	9.63	ppb		94
26) 2-Butanone	5.074	72	18216m	8.15	ppb		
27) 2,2-Dichloropropane	5.021	77	296296	7.38	ppb		98
28) Tetrahydrofuran	5.336	42	30884	9.31	ppb		82
29) Bromochloromethane	5.283	49	134982	10.10	ppb		91
30) Chloroform	5.355	83	463628	9.99	ppb	#	96
31) 1,1,1-Trichloroethane	5.508	97	398615	9.55	ppb	#	86
32) Cyclohexane	5.542	56	359609	9.77	ppb		89
33) 1,1-Dichloropropylene	5.667	75	347824	9.55	ppb		86
35) Carbon Tetrachloride	5.661	117	320136	8.95	ppb		100
36) tert-Amyl alcohol (TAA)	5.892	59	122980	93.35	ppb	#	84
37) 1,2-Dichloroethane	5.915	62	261866m	9.84	ppb		
38) Benzene	5.873	78	1049100	10.02	ppb	#	90
39) tert-Amyl methyl ether...	5.953	73	678048	9.74	ppb		98
41) Trichloroethylene	6.496	95	280032	8.92	ppb		94
42) Methyl Cyclohexane	6.652	83	479878	8.92	ppb		87
43) Methyl Methacrylate	6.813	69	126710	9.28	ppb		96
44) Dibromomethane	6.863	93	132900	8.96	ppb	#	71
45) Bromodichloromethane	7.008	83	337971	9.18	ppb		98
46) 1,2-Dichloropropane	6.727	63	248312	9.42	ppb		97
47) 1,4-Dioxane	6.880	88	24841	221.26	ppb		95
49) cis-1,3-Dichloropropene	7.439	75	393936	8.81	ppb		89
50) 4-Methyl-2-Pentanone	7.581	43	116168	9.34	ppb		86
52) Toluene	7.756	91	1229880	9.29	ppb		99
53) trans-1,3-Dichloropropene	8.004	75	321122	8.55	ppb		98

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601457.D
Acq On : 28 Sep 2017 2:12 am
InstName : MSVOA6
Operator : AS
Sample : SEQ-CCV1
Misc : QBQV6092717B CCV AQU
ALS Vial : 31 Sample Multiplier: 1

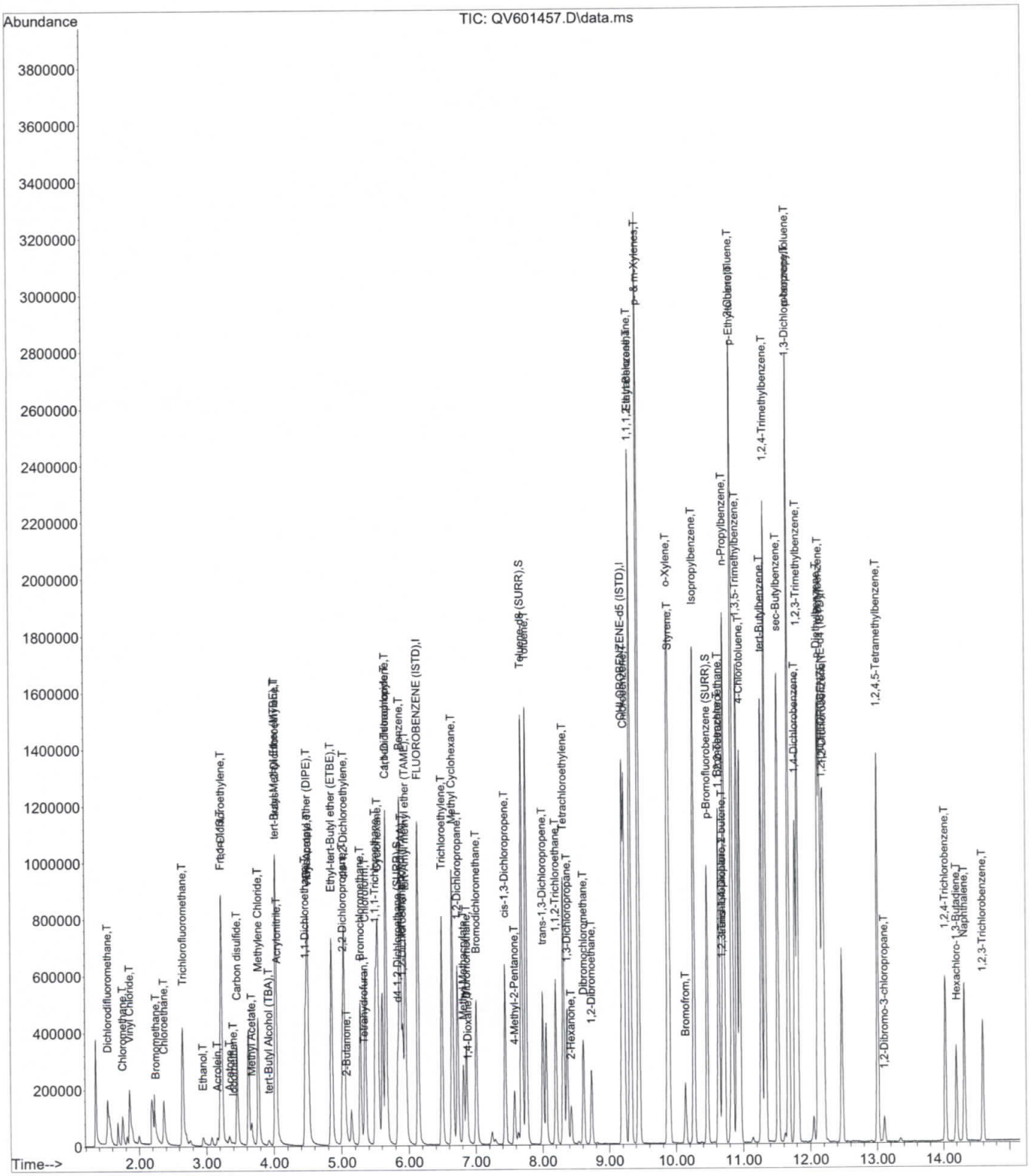
Quant Time: Sep 28 10:27:46 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 11:12:10 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) 1,1,2-Trichloroethane	8.199	97	196910	9.30	ppb		91
55) 1,3-Dichloropropane	8.368	76	336812	9.59	ppb	#	76
56) Tetrachloroethylene	8.313	166	273974	9.40	ppb	#	71
57) 2-Hexanone	8.427	43	78431	8.76	ppb	#	88
58) Dibromochloromethane	8.613	129	202745	9.01	ppb		97
59) 1,2-Dibromoethane	8.733	107	179871	9.36	ppb		93
60) Chlorobenzene	9.228	112	757484	9.42	ppb		95
61) 1,1,1,2-tetrachloroethane	9.314	131	234056	8.69	ppb		89
62) Ethyl Benzene	9.320	91	1352861	9.66	ppb		98
63) p- & m-Xylenes	9.442	91	2058758	20.09	ppb		95
64) o-Xylene	9.876	91	1053010	9.47	ppb		100
65) Styrene	9.899	104	753656	9.43	ppb	#	77
66) Bromofrom	10.138	173	95517	8.38	ppb	#	78
68) p-Ethyltoluene	10.845	105	1275301	9.52	ppb	#	68
69) Isopropylbenzene	10.263	105	1356565	9.83	ppb		93
71) 1,1,2,2-Tetrachloroethane	10.642	83	209365	9.28	ppb	#	97
72) Bromobenzene	10.633	77	431816	9.38	ppb		87
73) trans-1,4-Dichloro-2-b...	10.692	75	211719	8.62	ppb		91
74) 1,2,3-Trichloropropane	10.689	110	58194	9.04	ppb	#	90
75) n-Propylbenzene	10.717	91	1597621	9.95	ppb		97
76) 2-Chlorotoluene	10.836	91	1022819	9.44	ppb		100
77) 4-Chlorotoluene	10.956	91	922550	9.54	ppb		100
78) 1,3,5-Trimethylbenzene	10.911	105	1061886	9.58	ppb		98
79) tert-Butylbenzene	11.273	119	878268	9.54	ppb		97
80) 1,2,4-Trimethylbenzene	11.334	105	1068180	9.39	ppb	#	84
81) sec-Butylbenzene	11.518	105	1355075	9.77	ppb		98
82) 1,3-Dichlorobenzene	11.674	146	493896	9.24	ppb		96
83) p-Isopropyltoluene	11.679	119	1086562	9.44	ppb		99
84) 1,4-Dichlorobenzene	11.780	146	478718	9.29	ppb		95
85) 1,2,3-Trimethylbenzene	11.816	105	1088357	9.21	ppb		95
86) p-Diethylbenzene	12.116	105	572749	9.24	ppb	#	36
87) 1,2-Dichlorobenzene	12.202	146	425025	9.30	ppb	#	86
88) n-Butylbenzene	12.144	91	1201207	9.47	ppb		89
89) 1,2-Dibromo-3-chloropr...	13.107	75	24864	8.27	ppb	#	61
90) 1,2,4,5-Tetramethylben...	13.006	119	817854	9.30	ppb		98
91) 1,2,4-Trichlorobenzene	14.028	180	189489	9.30	ppb		96
92) Hexachloro-1,3-Butadiene	14.200	225	66496	8.81	ppb		96
93) Naphthalene	14.317	128	463158	7.79	ppb		98
94) 1,2,3-Trichlorobenzene	14.595	180	136198	9.45	ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601457.D
Acq On : 28 Sep 2017 2:12 am
InstName : MSVOA6
Operator : AS
Sample : SEQ-CCV1
Misc : QBQV6092717B CCV AQU
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Sep 28 10:27:46 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 11:12:10 2017
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601457.D
Acq On : 28 Sep 2017 2:12 am
InstName : MSVOA6
Operator : AS
Sample : SEQ-CCV1
Misc : QBQV6092717B CCV AQU
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Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 11:12:10 2017
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE (ISTD)	1.000	1.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	1.188	1.127	5.2	90	0.00
3	T	Chloromethane	0.934	0.540	42.2#	61	0.00
4	T	Vinyl Chloride	1.460	1.172	19.7	79	0.00
5	T	Bromomethane	0.506	0.103	79.6#	26#	0.00
6	T	Chloroethane	0.812	0.867	-6.7	104	0.00
7	T	Trichlorofluoromethane	2.069	2.002	3.2	92	0.00
8	T	Ethanol	0.005	0.005	14.5	80	0.00
9	T	Freon-113	1.337	1.225	8.4	89	0.00
10	T	1,1-Dichloroethylene	1.635	1.584	3.1	94	0.00
11	T	Acrolein	0.110	0.121	-9.3	112	0.00
12	T	Acetone	0.288	0.168	41.8#	46#	0.00
13	T	Iodomethane	0.461	0.039	91.5#	8#	0.00
14	T	Methyl Acetate	0.388	0.397	-2.3	100	0.00
15	T	Carbon disulfide	2.735	2.672	2.3	95	0.00
16	T	tert-Butyl Alcohol (TBA)	0.076	0.110	-44.1#	149	0.00
17	T	Methylene Chloride	1.204	1.179	2.1	98	0.00
18	T	Acrylonitrile	0.241	0.211	12.5	93	-0.01
19	T	trans-1,2-Dichloroethylene	1.577	1.502	4.8	95	0.00
20	T	tert-Butyl Methyl Ether (MT	3.278	3.161	3.6	96	0.00
21	T	1,1-Dichloroethane	2.172	2.177	-0.2	97	0.00
22	T	Vinyl Acetate	2.853	2.631	7.8	92	0.00
23	T	Diisopropyl ether (DIPE)	3.185	3.287	-3.2	105	0.00
24	T	Ethyl-tert-Butyl ether (ETB	3.645	3.512	3.7	96	0.00
25	T	cis-1,2-Dichloroethylene	1.969	1.895	3.7	97	0.00
26	T	2-Butanone	0.119	0.097	18.4	78	0.00
27	T	2,2-Dichloropropane	2.145	1.584	26.2#	74	0.00
28	T	Tetrahydrofuran	0.177	0.165	6.8	100	0.00
29	T	Bromochloromethane	0.714	0.722	-1.0	98	0.00
30	T	Chloroform	2.481	2.478	0.1	98	0.00
31	T	1,1,1-Trichloroethane	2.231	2.131	4.5	93	0.00
32	T	Cyclohexane	1.967	1.922	2.3	96	0.00
33	T	1,1-Dichloropropylene	1.948	1.859	4.5	94	0.00
34	S	d4-1,2-Dichloroethane (SURR	1.085	1.067	1.7	98	0.00
35	T	Carbon Tetrachloride	1.912	1.711	10.5	88	0.00
36	T	tert-Amyl alcohol (TAA)	0.070	0.066	6.7	97	0.00
37	T	1,2-Dichloroethane	1.423	1.400	1.7	95	0.00
38	T	Benzene	5.597	5.608	-0.2	97	0.00
39	T	tert-Amyl methyl ether (TAM	3.721	3.624	2.6	96	0.00
40	I	CHLOROBENZENE-d5 (ISTD)	1.000	1.000	0.0	107	0.00
41	T	Trichloroethylene	0.386	0.344	10.8	96	0.00
42	T	Methyl Cyclohexane	0.661	0.590	10.8	95	0.00
43	T	Methyl Methacrylate	0.168	0.156	7.2	101	0.00
44	T	Dibromomethane	0.182	0.163	10.4	98	0.00
45	T	Bromodichloromethane	0.453	0.415	8.2	99	0.00
46	T	1,2-Dichloropropane	0.324	0.305	5.8	102	0.00
47	T	1,4-Dioxane	0.001	0.002	-7.1	128	0.00
48	T	2-Chloroethyl vinyl ether	0.118	0.002	98.4#	2#	0.00
49	T	cis-1,3-Dichloropropene	0.550	0.484	11.9	94	0.00
50	T	4-Methyl-2-Pentanone	0.153	0.143	6.6	101	0.00
51	S	Toluene-d8 (SURR)	1.432	1.349	5.7	102	0.00
52	T	Toluene	1.628	1.512	7.1	99	0.00
53	T	trans-1,3-Dichloropropene	0.462	0.395	14.5	91	0.00
54	T	1,1,2-Trichloroethane	0.260	0.242	7.0	98	0.00
55	T	1,3-Dichloropropane	0.432	0.414	4.1	100	0.00
56	T	Tetrachloroethylene	0.358	0.337	6.0	100	0.00
57	T	2-Hexanone	0.110	0.096	12.4	91	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601457.D
Acq On : 28 Sep 2017 2:12 am
InstName : MSVOA6
Operator : AS
Sample : SEQ-CCV1
Misc : QBQV6092717B CCV AQU
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Sep 28 10:27:46 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 11:12:10 2017
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
58	T	Dibromochloromethane	0.277	0.249	9.9	94	0.00
59	T	1,2-Dibromoethane	0.236	0.221	6.4	96	0.00
60	T	Chlorobenzene	0.989	0.931	5.8	99	0.00
61	T	1,1,1,2-tetrachloroethane	0.331	0.288	13.1	96	0.00
62	T	Ethyl Benzene	1.722	1.663	3.4	98	0.00
63	T	p- & m-Xylenes	1.260	1.266	-0.5	97	0.00
64	T	o-Xylene	1.367	1.295	5.3	99	0.00
65	T	Styrene	0.983	0.927	5.7	100	0.00
66	T	Bromofrom	0.140	0.117	16.3	91	0.00
67	I	1,2-DICHLOROBENZENE-d4 (IST	1.000	1.000	0.0	110	0.00
68	T	p-Ethyltoluene	4.736	4.510	4.8	98	0.00
69	T	Isopropylbenzene	4.878	4.797	1.7	99	0.00
70	S	p-Bromofluorobenzene (SURR)	1.314	1.361	-3.6	111	0.00
71	T	1,1,2,2-Tetrachloroethane	0.798	0.740	7.2	98	0.00
72	T	Bromobenzene	1.628	1.527	6.2	99	0.00
73	T	trans-1,4-Dichloro-2-butene	0.868	0.749	13.8	90	0.00
74	T	1,2,3-Trichloropropane	0.228	0.206	9.6	94	0.00
75	T	n-Propylbenzene	5.680	5.649	0.5	98	0.00
76	T	2-Chlorotoluene	3.832	3.617	5.6	99	0.00
77	T	4-Chlorotoluene	3.420	3.262	4.6	100	0.00
78	T	1,3,5-Trimethylbenzene	3.921	3.755	4.2	98	0.00
79	T	tert-Butylbenzene	3.255	3.106	4.6	100	0.00
80	T	1,2,4-Trimethylbenzene	4.023	3.777	6.1	99	0.00
81	T	sec-Butylbenzene	4.904	4.792	2.3	99	0.00
82	T	1,3-Dichlorobenzene	1.891	1.746	7.6	98	0.00
83	T	p-Isopropyltoluene	4.070	3.842	5.6	98	0.00
84	T	1,4-Dichlorobenzene	1.823	1.693	7.1	98	0.00
85	T	1,2,3-Trimethylbenzene	4.179	3.849	7.9	99	0.02
86	T	p-Diethylbenzene	2.192	2.025	7.6	98	0.00
87	T	1,2-Dichlorobenzene	1.616	1.503	7.0	98	0.00
88	T	n-Butylbenzene	4.486	4.248	5.3	97	0.00
89	T	1,2-Dibromo-3-chloropropane	0.106	0.088	17.3	91	0.00
90	T	1,2,4,5-Tetramethylbenzene	3.110	2.892	7.0	97	0.00
91	T	1,2,4-Trichlorobenzene	0.720	0.670	7.0	98	0.00
92	T	Hexachloro-1,3-Butadiene	0.267	0.235	11.9	95	0.00
93	T	Naphthalene	2.027	1.638	19.2	84	0.00
94	T	1,2,3-Trichlorobenzene	0.509	0.482	5.5	99	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

FORM V **ANALYSIS BATCH (SEQUENCE) SUMMARY**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 17I0914
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41433.00-Katonah Task 0500
Sequence: Y7I2835
Instrument: QVOA6
Calibration: YI70003

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	Y7I2835-TUN1	QV601428.D	09/27/17 12:26
Calibration Check	Y7I2835-CCV1	QV601430.D	09/27/17 13:19
LCS	BI71306-BS1	QV601431.D	09/27/17 13:46
LCS Dup	BI71306-BSD1	QV601432.D	09/27/17 14:13
Blank	BI71306-BLK1	QV601434.D	09/27/17 15:06
KWF-MW2S	17I0914-01	QV601446.D	09/27/17 21:21
KWF-MW11R	17I0914-02	QV601447.D	09/27/17 21:47
KWF-MW1S	17I0914-03	QV601448.D	09/27/17 22:14
KWF-MW4R	17I0914-04	QV601449.D	09/27/17 22:40
KWF-MW1S	BI71306-MS1	QV601450.D	09/27/17 23:06
KWF-MW1S	BI71306-MSD1	QV601451.D	09/27/17 23:33

FORM V **ANALYSIS BATCH (SEQUENCE) SUMMARY**

EPA 8260C

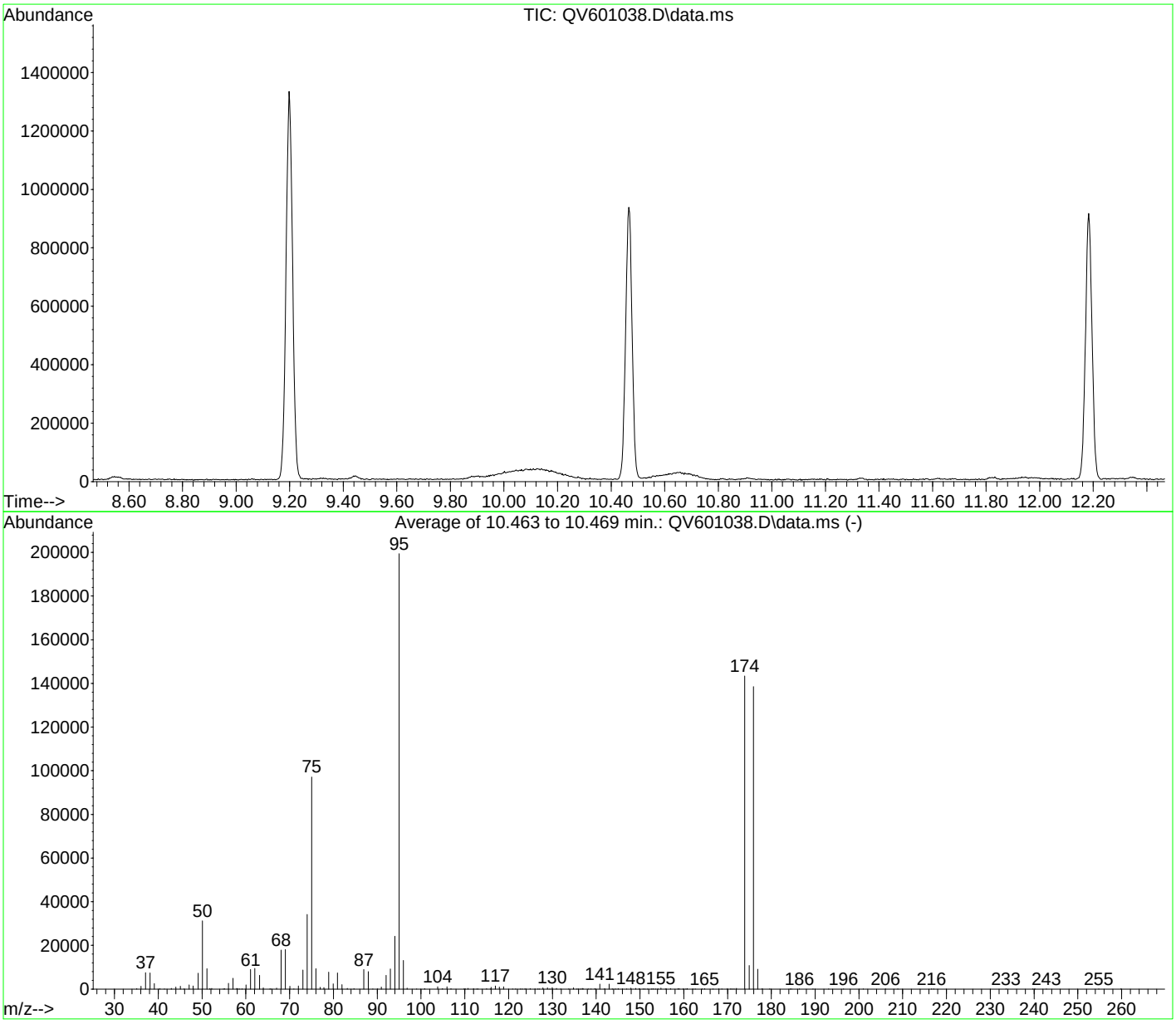
Laboratory: York Analytical Laboratories, Inc.
SDG: 17I0914
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41433.00-Katonah Task 0500
Sequence: Y7I2927
Instrument: QVOA6
Calibration: YI70003

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	Y7I2927-TUN1	QV601453.D	09/28/17 00:26
Calibration Check	Y7I2927-CCV1	QV601457.D	09/28/17 02:12
LCS	BI71307-BS1	QV601458.D	09/28/17 02:38
LCS Dup	BI71307-BSD1	QV601459.D	09/28/17 03:04
Blank	BI71307-BLK1	QV601461.D	09/28/17 03:57
KWF-TB	17I0914-08	QV601462.D	09/28/17 04:24
KWF-PW	17I0914-05	QV601464.D	09/28/17 05:17
KWF-FD	17I0914-06	QV601465.D	09/28/17 05:43
KWF-EB	17I0914-07	QV601466.D	09/28/17 06:10

Data Path : C:\msdchem\2\DATA\091117A\
Data File : QV601038.D
Acq On : 11 Sep 2017 10:34 am
Operator : AS
Sample : SEQ-TUN1
Misc : QBQV6091117A TUNE AQU
ALS Vial : 2 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\2\METHODS\VQ6LO005.M
Title : Volatile Organics EPA 8260C-Waters
Last Update : Tue Aug 08 10:38:41 2017



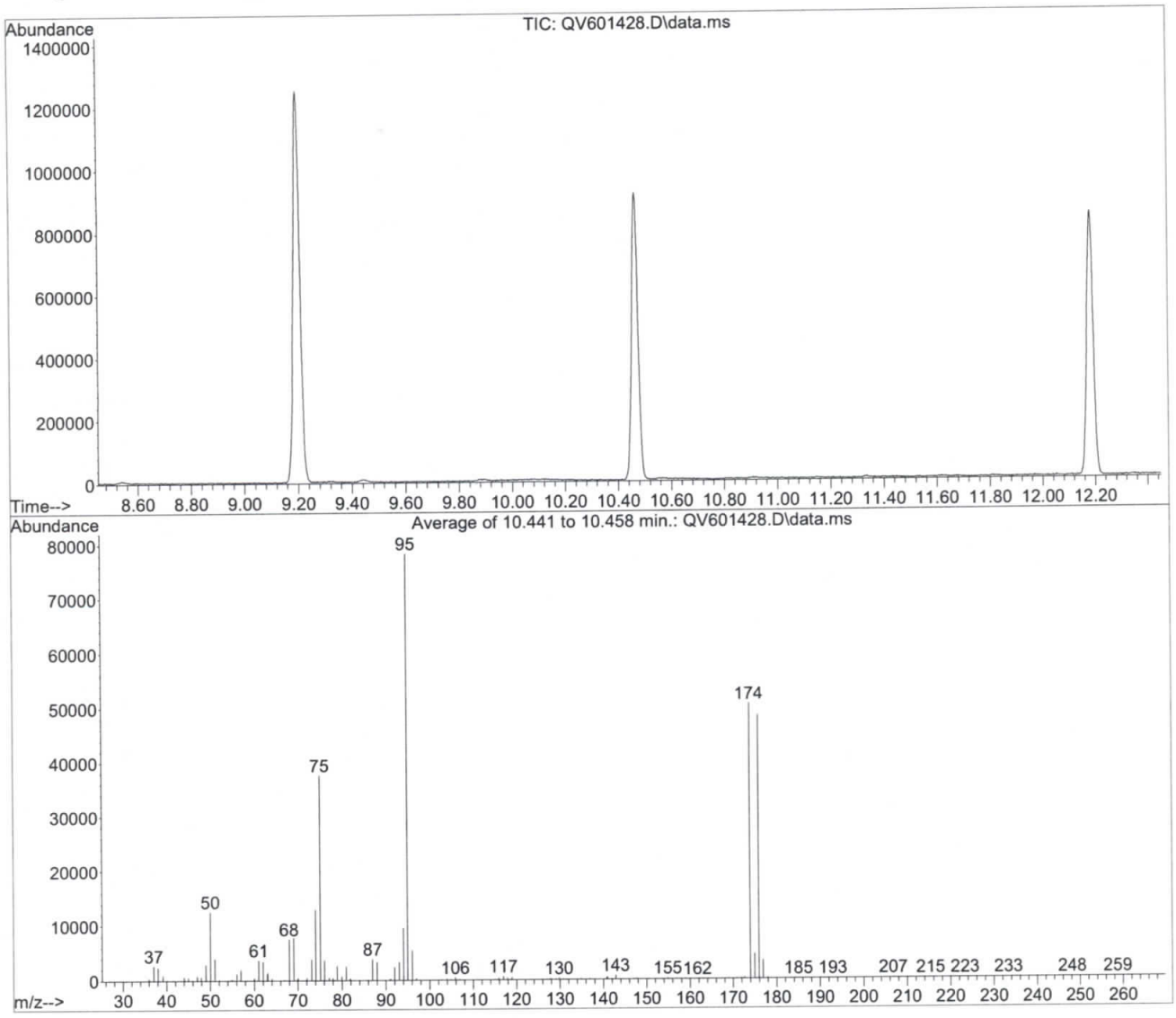
AutoFind: Scans 3335, 3336, 3337; Background Corrected with Scan 3318

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.7	31227	PASS
75	95	30	60	48.7	97189	PASS
95	95	100	100	100.0	199381	PASS
96	95	5	9	6.6	13071	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	71.9	143381	PASS
175	174	5	9	7.5	10819	PASS
176	174	95	101	96.6	138496	PASS
177	176	5	9	6.5	9059	PASS

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601428.D
Acq On : 27 Sep 2017 12:26 pm
Operator : AS
Sample : SEQ-TUN1
Misc : QBQV6092717A TUN AQU
ALS Vial : 2 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\2\METHODS\VQ6LO006.M
Title : Volatile Organics EPA 8260C-Waters
Last Update : Tue Sep 12 13:44:47 2017



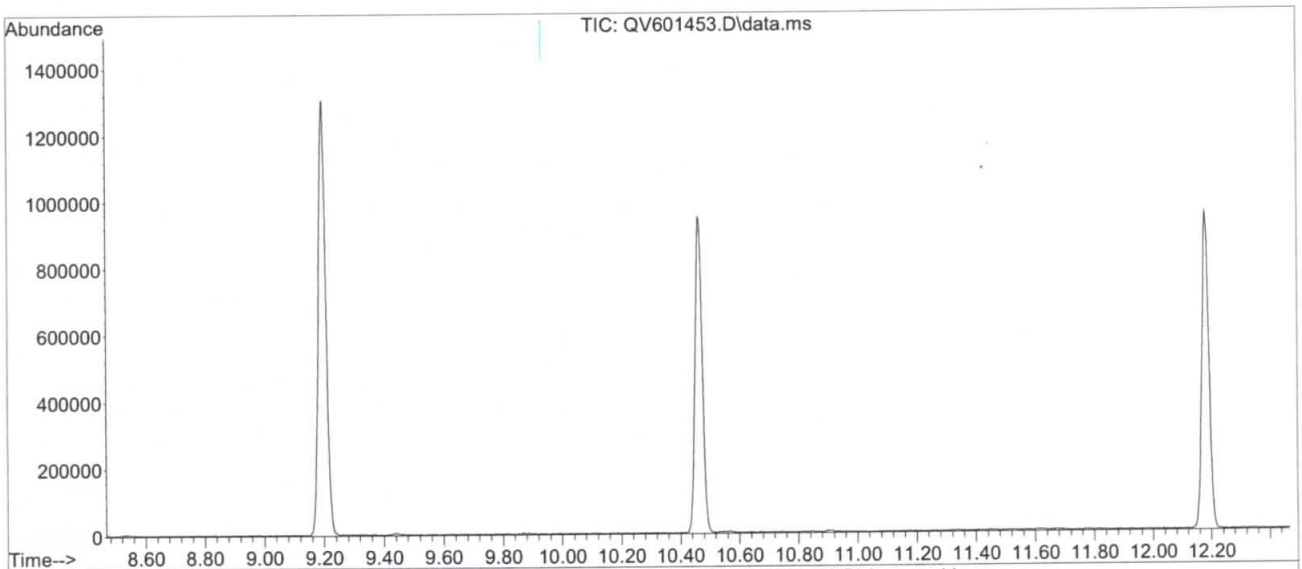
Spectrum Information: Average of 10.441 to 10.458 min.

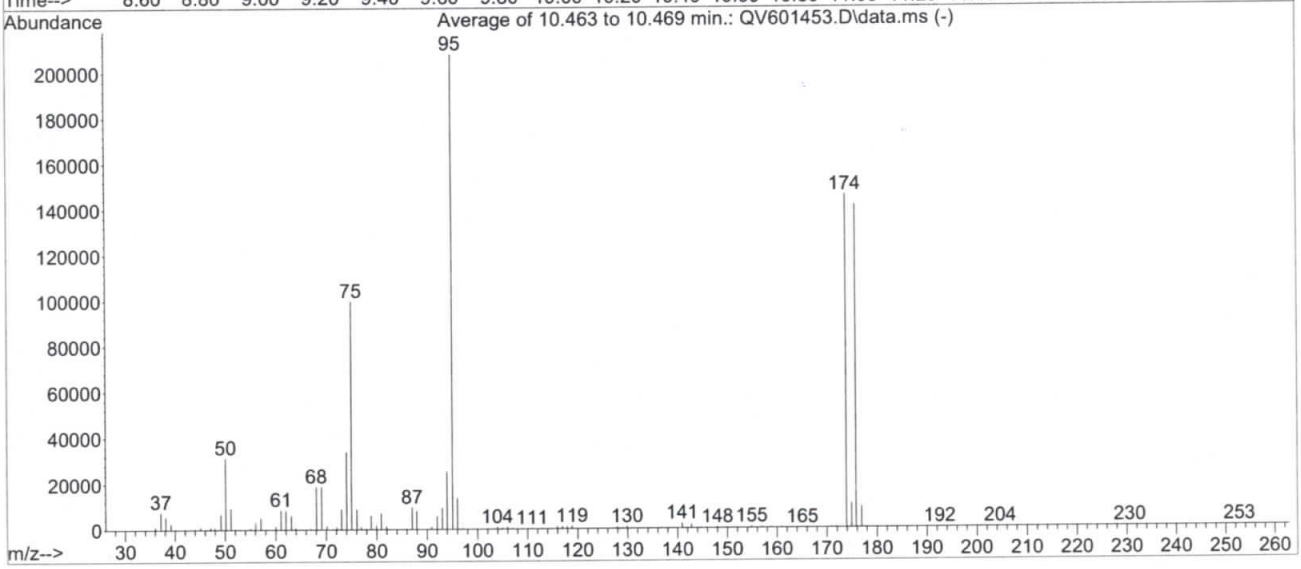
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.0	12546	PASS
75	95	30	60	48.1	37613	PASS
95	95	100	100	100.0	78240	PASS
96	95	5	9	7.0	5487	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	64.4	50394	PASS
175	174	5	9	8.9	4465	PASS
176	174	95	101	95.9	48347	PASS
177	176	5	9	6.9	3347	PASS

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601453.D
Acq On : 28 Sep 2017 12:26 am
Operator : AS
Sample : SEQ-TUN1
Misc : QBQV6092717B TUNE AQU
ALS Vial : 27 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\2\METHODS\VQ6LO006.M
Title : Volatile Organics EPA 8260C-Waters
Last Update : Tue Sep 12 13:44:47 2017





AutoFind: Scans 3335, 3336, 3337; Background Corrected with Scan 3315

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.0	31280	PASS
75	95	30	60	47.9	99715	PASS
95	95	100	100	100.0	208021	PASS
96	95	5	9	6.5	13488	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	70.0	145685	PASS
175	174	5	9	7.4	10732	PASS
176	174	95	101	96.9	141186	PASS
177	176	5	9	6.5	9185	PASS

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	17I0914
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41433.00-Katonah Task 0500
Matrix:	Water	Laboratory ID:	BI71306-BLK1	File ID:	QV601434.D
Prepared:	09/27/17 10:00	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	09/27/17 15:06	Instrument:	QVOA6		
Batch:	BI71306	Sequence:	Y7I2835	Calibration:	YI70003

CAS NO.	COMPOUND	CONC. (ug/L)	Q
71-55-6	1,1,1-Trichloroethane	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
75-35-4	1,1-Dichloroethylene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
78-93-3	2-Butanone	0.50	U
591-78-6	2-Hexanone	0.50	U
108-10-1	4-Methyl-2-pentanone	0.50	U
67-64-1	Acetone	2.0	U
71-43-2	Benzene	0.50	U
74-97-5	Bromochloromethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
75-25-2	Bromoform	0.50	U
74-83-9	Bromomethane	0.50	U
75-15-0	Carbon disulfide	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
108-90-7	Chlorobenzene	0.50	U
75-00-3	Chloroethane	0.50	U
67-66-3	Chloroform	0.50	U
74-87-3	Chloromethane	0.50	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	17I0914
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41433.00-Katonah Task 0500
Matrix:	Water	Laboratory ID:	BI71306-BLK1	File ID:	QV601434.D
Prepared:	09/27/17 10:00	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	09/27/17 15:06	Instrument:	QVOA6		
Batch:	BI71306	Sequence:	Y7I2835	Calibration:	YI70003

CAS NO.	COMPOUND	CONC. (ug/L)	Q
156-59-2	cis-1,2-Dichloroethylene	0.50	U
10061-01-5	cis-1,3-Dichloropropylene	0.50	U
110-82-7	Cyclohexane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
75-71-8	Dichlorodifluoromethane	0.50	U
100-41-4	Ethyl Benzene	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-20-9	Methyl acetate	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	0.50	U
108-87-2	Methylcyclohexane	0.50	U
75-09-2	Methylene chloride	2.0	U
95-47-6	o-Xylene	0.50	U
179601-23-1	p- & m- Xylenes	1.0	U
100-42-5	Styrene	0.50	U
127-18-4	Tetrachloroethylene	0.50	U
108-88-3	Toluene	0.50	U
156-60-5	trans-1,2-Dichloroethylene	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	0.50	U
79-01-6	Trichloroethylene	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
1330-20-7	Xylenes, Total	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4	10.0	9.72	97.2	69 - 130	
Toluene-d8	10.0	9.39	93.9	81 - 117	
p-Bromofluorobenzene	10.0	11.0	110	79 - 122	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601434.D
Acq On : 27 Sep 2017 3:06 pm
InstName : MSVOA6
Operator : AS
Sample : BI71306-BLK1
Misc : QBQV6092717A BLK AQU
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 28 14:12:41 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 11:12:10 2017
Response via : Initial Calibration

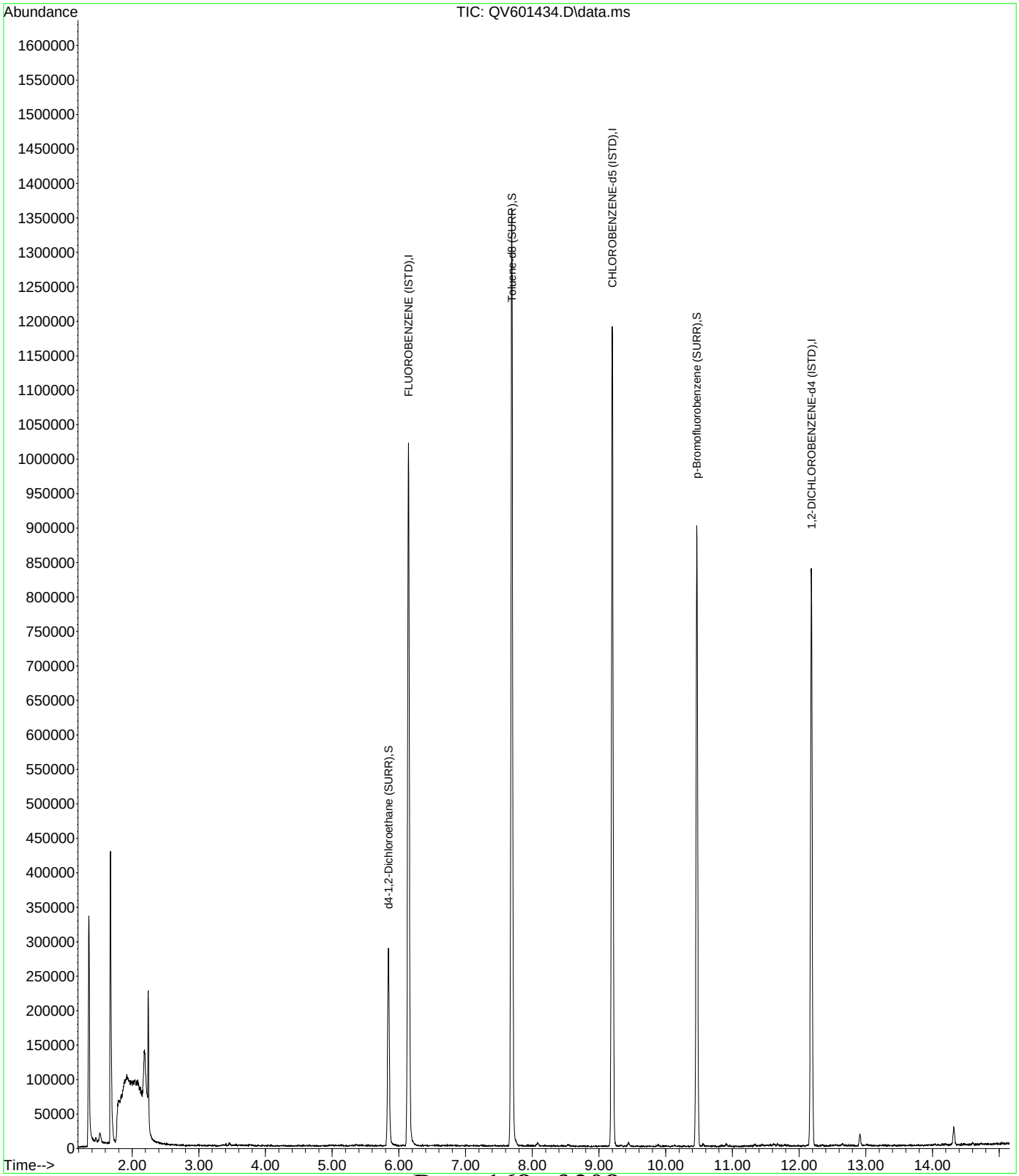
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	6.145	70	171829	10.00	ppb	# 0.00
40) CHLOROBENZENE-d5 (ISTD)	9.200	117	729582	10.00	ppb	# 0.00
67) 1,2-DICHLOROBENZENE-d4...	12.186	152	235155	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.845	65	181192	9.72	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.20%			
51) Toluene-d8 (SURR)	7.692	98	980883	9.39	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.90%			
70) p-Bromofluorobenzene (...	10.466	95	339351	10.98	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.80%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601434.D
Acq On : 27 Sep 2017 3:06 pm
InstName : MSVOA6
Operator : AS
Sample : BI71306-BLK1
Misc : QBQV6092717A BLK AQU
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 28 14:12:41 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 11:12:10 2017
Response via : Initial Calibration



FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	17I0914
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41433.00-Katonah Task 0500
Matrix:	Water	Laboratory ID:	BI71307-BLK1	File ID:	QV601461.D
Prepared:	09/27/17 17:00	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	09/28/17 03:57	Instrument:	QVOA6		
Batch:	BI71307	Sequence:	Y7I2927	Calibration:	YI70003

CAS NO.	COMPOUND	CONC. (ug/L)	Q
71-55-6	1,1,1-Trichloroethane	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
75-35-4	1,1-Dichloroethylene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
78-93-3	2-Butanone	0.50	U
591-78-6	2-Hexanone	0.50	U
108-10-1	4-Methyl-2-pentanone	0.50	U
67-64-1	Acetone	2.0	U
71-43-2	Benzene	0.50	U
74-97-5	Bromochloromethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
75-25-2	Bromoform	0.50	U
74-83-9	Bromomethane	0.50	U
75-15-0	Carbon disulfide	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
108-90-7	Chlorobenzene	0.50	U
75-00-3	Chloroethane	0.50	U
67-66-3	Chloroform	0.50	U
74-87-3	Chloromethane	0.50	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	17I0914
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41433.00-Katonah Task 0500
Matrix:	Water	Laboratory ID:	BI71307-BLK1	File ID:	QV601461.D
Prepared:	09/27/17 17:00	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	09/28/17 03:57	Instrument:	QVOA6		
Batch:	BI71307	Sequence:	Y7I2927	Calibration:	YI70003

CAS NO.	COMPOUND	CONC. (ug/L)	Q
156-59-2	cis-1,2-Dichloroethylene	0.50	U
10061-01-5	cis-1,3-Dichloropropylene	0.50	U
110-82-7	Cyclohexane	0.50	U
124-48-1	Dibromochloromethane	0.50	U
75-71-8	Dichlorodifluoromethane	0.50	U
100-41-4	Ethyl Benzene	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-20-9	Methyl acetate	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	0.50	U
108-87-2	Methylcyclohexane	0.50	U
75-09-2	Methylene chloride	2.0	U
95-47-6	o-Xylene	0.50	U
179601-23-1	p- & m- Xylenes	1.0	U
100-42-5	Styrene	0.50	U
127-18-4	Tetrachloroethylene	0.50	U
108-88-3	Toluene	0.50	U
156-60-5	trans-1,2-Dichloroethylene	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	0.50	U
79-01-6	Trichloroethylene	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
1330-20-7	Xylenes, Total	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4	10.0	9.92	99.2	69 - 130	
Toluene-d8	10.0	9.35	93.5	81 - 117	
p-Bromofluorobenzene	10.0	10.7	107	79 - 122	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601461.D
Acq On : 28 Sep 2017 3:57 am
InstName : MSVOA6
Operator : AS
Sample : BI71307-BLK1
Misc : QBQV6092717B BLK AQU
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Sep 28 11:34:10 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 11:12:10 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	6.143	70	185593	10.00	ppb	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.198	117	796678	10.00	ppb	# 0.00
67) 1,2-DICHLOROBENZENE-d4...	12.183	152	260631	10.00	ppb	0.00
System Monitoring Compounds						
34) d4-1,2-Dichloroethane ...	5.839	65	199798	9.92	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.20%			
51) Toluene-d8 (SURR)	7.690	98	1066155	9.35	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.50%			
70) p-Bromofluorobenzene (...	10.466	95	366950	10.72	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.20%			

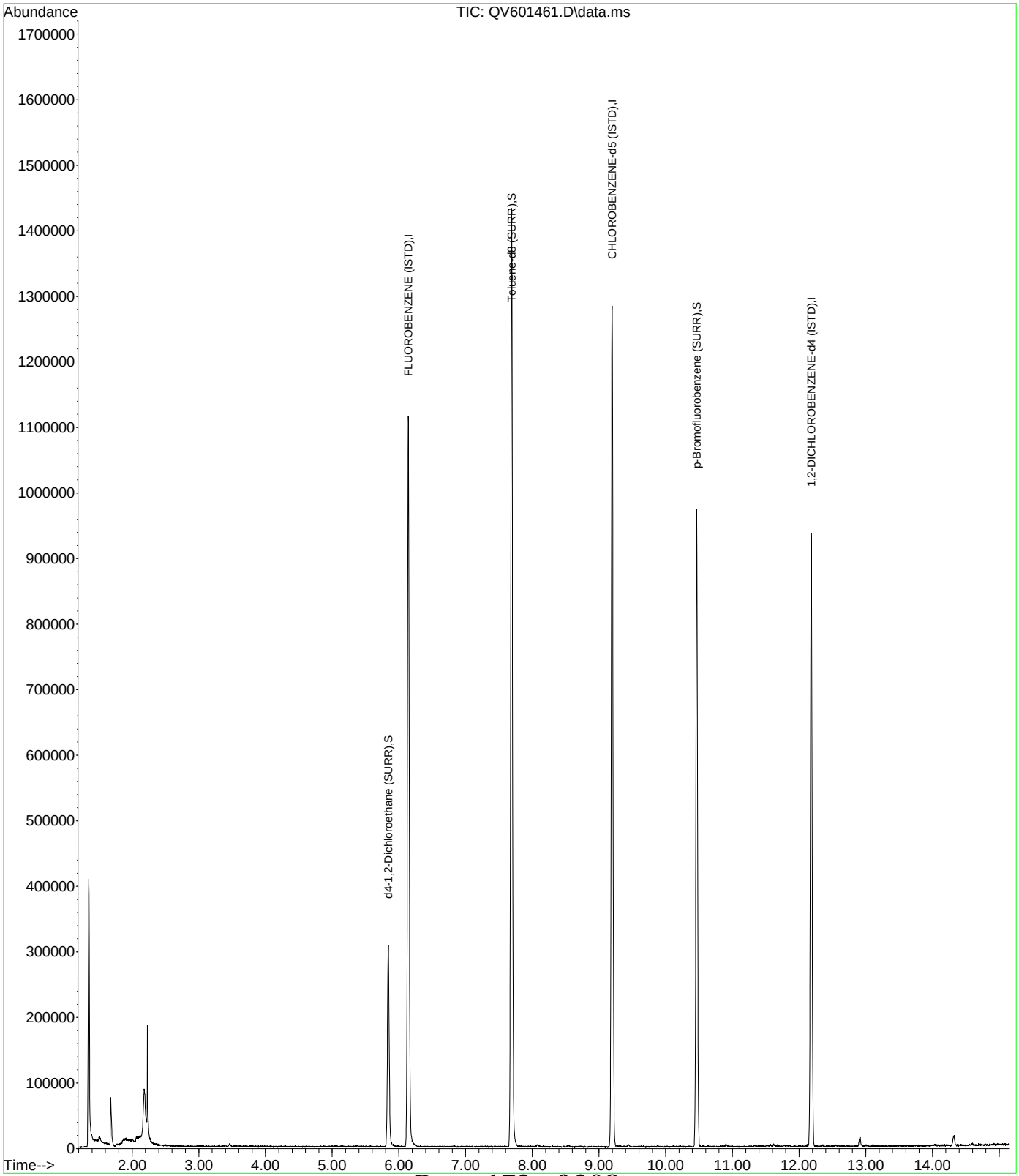
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601461.D
Acq On : 28 Sep 2017 3:57 am
InstName : MSVOA6
Operator : AS
Sample : BI71307-BLK1
Misc : QBQV6092717B BLK AQU
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Sep 28 11:34:10 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 11:12:10 2017
Response via : Initial Calibration



FORM III **LCS / LCS DUPLICATE RECOVERY**

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	17I0914
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41433.00-Katonah Task 0500
Matrix:	Water		
Batch:	BI71306	Laboratory ID:	BI71306-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
1,1,1-Trichloroethane	10.0	11	105	78 - 136
1,1,2,2-Tetrachloroethane	10.0	10	103	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	10	103	54 - 165
1,1,2-Trichloroethane	10.0	9.9	99.3	82 - 123
1,1-Dichloroethane	10.0	11	113	82 - 129
1,1-Dichloroethylene	10.0	11	108	68 - 138
1,2,3-Trichlorobenzene	10.0	11	108	76 - 136
1,2,4-Trichlorobenzene	10.0	11	105	76 - 137
1,2-Dibromo-3-chloropropane	10.0	9.8	97.5	45 - 147
1,2-Dibromoethane	10.0	9.9	98.9	83 - 124
1,2-Dichlorobenzene	10.0	9.8	97.5	79 - 123
1,2-Dichloroethane	10.0	10	102	73 - 132
1,2-Dichloropropane	10.0	9.7	97.3	78 - 126
1,3-Dichlorobenzene	10.0	9.7	96.7	86 - 122
1,4-Dichlorobenzene	10.0	9.9	99.0	85 - 124
2-Butanone	10.0	9.5	95.1	49 - 152
2-Hexanone	10.0	11	108	51 - 146
4-Methyl-2-pentanone	10.0	9.9	99.1	57 - 145
Acetone	10.0	8.8	87.9	14 - 150
Benzene	10.0	11	109	85 - 126
Bromochloromethane	10.0	11	110	77 - 128
Bromodichloromethane	10.0	9.6	96.5	79 - 128
Bromoform	10.0	9.3	93.1	78 - 133
Bromomethane	10.0	3.7	36.8 *	43 - 168
Carbon disulfide	10.0	13	131	68 - 146
Carbon tetrachloride	10.0	9.0	90.3	77 - 141
Chlorobenzene	10.0	9.5	94.8	88 - 120
Chloroethane	10.0	11	111	65 - 136
Chloroform	10.0	11	107	82 - 128
Chloromethane	10.0	5.8	58.0	43 - 155

FORM III **LCS / LCS DUPLICATE RECOVERY**

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	17I0914
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41433.00-Katonah Task 0500
Matrix:	Water		
Batch:	BI71306	Laboratory ID:	BI71306-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
cis-1,2-Dichloroethylene	10.0	11	106	83 - 129
cis-1,3-Dichloropropylene	10.0	9.5	95.1	80 - 131
Cyclohexane	10.0	11	109	63 - 149
Dibromochloromethane	10.0	9.5	94.8	80 - 130
Dichlorodifluoromethane	10.0	11	112	44 - 144
Ethyl Benzene	10.0	10	104	80 - 131
Isopropylbenzene	10.0	11	105	76 - 140
Methyl acetate	10.0	11	108	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	11	106	76 - 135
Methylcyclohexane	10.0	10	100	72 - 143
Methylene chloride	10.0	10	102	55 - 137
o-Xylene	10.0	9.5	95.1	78 - 130
p- & m- Xylenes	20.0	21	105	77 - 133
Styrene	10.0	10	103	67 - 132
Tetrachloroethylene	10.0	10	101	82 - 131
Toluene	10.0	9.9	98.9	80 - 127
trans-1,2-Dichloroethylene	10.0	11	108	80 - 132
trans-1,3-Dichloropropylene	10.0	9.5	94.9	78 - 131
Trichloroethylene	10.0	9.8	97.8	82 - 128
Trichlorofluoromethane	10.0	9.8	97.7	67 - 139
Vinyl Chloride	10.0	10	102	58 - 145

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III **LCS / LCS DUPLICATE RECOVERY**

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	17I0914
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41433.00-Katonah Task 0500
Matrix:	Water		
Batch:	BI71306	Laboratory ID:	BI71306-BSD1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1-Trichloroethane	10.0	11	105	0.285	30	78 - 136
1,1,2,2-Tetrachloroethane	10.0	11	106	2.95	30	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (	10.0	10	102	0.681	30	54 - 165
1,1,2-Trichloroethane	10.0	10	101	1.90	30	82 - 123
1,1-Dichloroethane	10.0	11	112	0.623	30	82 - 129
1,1-Dichloroethylene	10.0	11	106	1.12	30	68 - 138
1,2,3-Trichlorobenzene	10.0	11	114	5.41	30	76 - 136
1,2,4-Trichlorobenzene	10.0	11	109	3.37	30	76 - 137
1,2-Dibromo-3-chloropropane	10.0	10	100	2.83	30	45 - 147
1,2-Dibromoethane	10.0	10	102	3.38	30	83 - 124
1,2-Dichlorobenzene	10.0	9.9	98.9	1.43	30	79 - 123
1,2-Dichloroethane	10.0	10	103	1.08	30	73 - 132
1,2-Dichloropropane	10.0	9.8	98.5	1.23	30	78 - 126
1,3-Dichlorobenzene	10.0	9.5	95.4	1.35	30	86 - 122
1,4-Dichlorobenzene	10.0	9.8	97.8	1.22	30	85 - 124
2-Butanone	10.0	11	110	15.0	30	49 - 152
2-Hexanone	10.0	11	110	1.47	30	51 - 146
4-Methyl-2-pentanone	10.0	11	105	5.97	30	57 - 145
Acetone	10.0	8.6	85.7	2.53	30	14 - 150
Benzene	10.0	11	109	0.276	30	85 - 126
Bromochloromethane	10.0	11	110	0.544	30	77 - 128
Bromodichloromethane	10.0	9.8	98.5	2.05	30	79 - 128
Bromoform	10.0	9.5	95.2	2.23	30	78 - 133
Bromomethane	10.0	3.9	38.9 *	5.55	30	43 - 168
Carbon disulfide	10.0	13	132	0.0761	30	68 - 146
Carbon tetrachloride	10.0	9.3	92.8	2.73	30	77 - 141
Chlorobenzene	10.0	9.5	95.1	0.316	30	88 - 120
Chloroethane	10.0	11	112	0.988	30	65 - 136
Chloroform	10.0	11	107	0.561	30	82 - 128
Chloromethane	10.0	5.5	54.9	5.49	30	43 - 155

FORM III **LCS / LCS DUPLICATE RECOVERY**

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	17I0914
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41433.00-Katonah Task 0500
Matrix:	Water		
Batch:	BI71306	Laboratory ID:	BI71306-BSD1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
cis-1,2-Dichloroethylene	10.0	11	105	1.14	30	83 - 129
cis-1,3-Dichloropropylene	10.0	9.8	98.3	3.31	30	80 - 131
Cyclohexane	10.0	11	110	0.548	30	63 - 149
Dibromochloromethane	10.0	9.6	95.5	0.736	30	80 - 130
Dichlorodifluoromethane	10.0	11	110	1.62	30	44 - 144
Ethyl Benzene	10.0	10	103	0.872	30	80 - 131
Isopropylbenzene	10.0	10	104	1.15	30	76 - 140
Methyl acetate	10.0	11	111	3.47	30	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	11	108	2.34	30	76 - 135
Methylcyclohexane	10.0	10	100	0.00	30	72 - 143
Methylene chloride	10.0	11	105	3.38	30	55 - 137
o-Xylene	10.0	9.5	95.0	0.105	30	78 - 130
p- & m- Xylenes	20.0	21	106	0.711	30	77 - 133
Styrene	10.0	10	104	0.675	30	67 - 132
Tetrachloroethylene	10.0	10	102	1.08	30	82 - 131
Toluene	10.0	10	99.5	0.605	30	80 - 127
trans-1,2-Dichloroethylene	10.0	11	108	0.00	30	80 - 132
trans-1,3-Dichloropropylene	10.0	9.6	96.1	1.26	30	78 - 131
Trichloroethylene	10.0	9.6	96.1	1.75	30	82 - 128
Trichlorofluoromethane	10.0	9.8	98.3	0.612	30	67 - 139
Vinyl Chloride	10.0	9.9	99.0	2.99	30	58 - 145

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III **LCS / LCS DUPLICATE RECOVERY**

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	17I0914
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41433.00-Katonah Task 0500
Matrix:	Water		
Batch:	BI71307	Laboratory ID:	BI71307-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
1,1,1-Trichloroethane	10.0	9.9	99.1	78 - 136
1,1,2,2-Tetrachloroethane	10.0	8.9	88.8	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	9.4	93.6	54 - 165
1,1,2-Trichloroethane	10.0	9.0	90.5	82 - 123
1,1-Dichloroethane	10.0	11	106	82 - 129
1,1-Dichloroethylene	10.0	10	99.9	68 - 138
1,2,3-Trichlorobenzene	10.0	9.4	93.6	76 - 136
1,2,4-Trichlorobenzene	10.0	9.3	92.6	76 - 137
1,2-Dibromo-3-chloropropane	10.0	8.1	81.4	45 - 147
1,2-Dibromoethane	10.0	9.3	92.9	83 - 124
1,2-Dichlorobenzene	10.0	8.7	86.7	79 - 123
1,2-Dichloroethane	10.0	9.8	97.6	73 - 132
1,2-Dichloropropane	10.0	9.2	92.1	78 - 126
1,3-Dichlorobenzene	10.0	8.7	86.7	86 - 122
1,4-Dichlorobenzene	10.0	8.7	87.3	85 - 124
2-Butanone	10.0	8.0	80.2	49 - 152
2-Hexanone	10.0	8.9	88.7	51 - 146
4-Methyl-2-pentanone	10.0	9.2	91.9	57 - 145
Acetone	10.0	3.7	36.8	14 - 150
Benzene	10.0	10	104	85 - 126
Bromochloromethane	10.0	10	103	77 - 128
Bromodichloromethane	10.0	9.1	91.2	79 - 128
Bromoform	10.0	8.4	84.5	78 - 133
Bromomethane	10.0	4.4	43.5	43 - 168
Carbon disulfide	10.0	11	110	68 - 146
Carbon tetrachloride	10.0	9.4	93.7	77 - 141
Chlorobenzene	10.0	9.0	89.6	88 - 120
Chloroethane	10.0	10	101	65 - 136
Chloroform	10.0	10	102	82 - 128
Chloromethane	10.0	6.3	62.7	43 - 155

FORM III **LCS / LCS DUPLICATE RECOVERY**

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	17I0914
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41433.00-Katonah Task 0500
Matrix:	Water		
Batch:	BI71307	Laboratory ID:	BI71307-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
cis-1,2-Dichloroethylene	10.0	9.7	97.4	83 - 129
cis-1,3-Dichloropropylene	10.0	8.6	85.7	80 - 131
Cyclohexane	10.0	10	102	63 - 149
Dibromochloromethane	10.0	8.7	86.9	80 - 130
Dichlorodifluoromethane	10.0	10	102	44 - 144
Ethyl Benzene	10.0	9.6	96.4	80 - 131
Isopropylbenzene	10.0	9.3	93.2	76 - 140
Methyl acetate	10.0	10	102	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	9.6	95.8	76 - 135
Methylcyclohexane	10.0	9.4	93.7	72 - 143
Methylene chloride	10.0	9.7	97.4	55 - 137
o-Xylene	10.0	8.9	88.8	78 - 130
p- & m- Xylenes	20.0	20	98.8	77 - 133
Styrene	10.0	9.6	96.1	67 - 132
Tetrachloroethylene	10.0	9.8	98.5	82 - 131
Toluene	10.0	9.3	92.9	80 - 127
trans-1,2-Dichloroethylene	10.0	10	102	80 - 132
trans-1,3-Dichloropropylene	10.0	8.5	84.7	78 - 131
Trichloroethylene	10.0	9.1	90.6	82 - 128
Trichlorofluoromethane	10.0	10	100	67 - 139
Vinyl Chloride	10.0	8.6	85.7	58 - 145

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III **LCS / LCS DUPLICATE RECOVERY**

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	17I0914
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41433.00-Katonah Task 0500
Matrix:	Water		
Batch:	BI71307	Laboratory ID:	BI71307-BSD1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1-Trichloroethane	10.0	9.6	95.9		3.28	30	78 - 136
1,1,2,2-Tetrachloroethane	10.0	8.7	86.9		2.16	30	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (	10.0	9.0	90.1		3.81	30	54 - 165
1,1,2-Trichloroethane	10.0	8.8	88.5		2.23	30	82 - 123
1,1-Dichloroethane	10.0	10	103		2.78	30	82 - 129
1,1-Dichloroethylene	10.0	9.8	97.8		2.12	30	68 - 138
1,2,3-Trichlorobenzene	10.0	9.0	90.1		3.81	30	76 - 136
1,2,4-Trichlorobenzene	10.0	9.2	91.5		1.20	30	76 - 137
1,2-Dibromo-3-chloropropane	10.0	8.0	80.2		1.49	30	45 - 147
1,2-Dibromoethane	10.0	8.9	89.3		3.95	30	83 - 124
1,2-Dichlorobenzene	10.0	8.5	84.9		2.10	30	79 - 123
1,2-Dichloroethane	10.0	9.4	93.9		3.86	30	73 - 132
1,2-Dichloropropane	10.0	9.0	90.2		2.08	30	78 - 126
1,3-Dichlorobenzene	10.0	8.4	84.1	*	3.04	30	86 - 122
1,4-Dichlorobenzene	10.0	8.6	85.8		1.73	30	85 - 124
2-Butanone	10.0	8.3	82.6		2.95	30	49 - 152
2-Hexanone	10.0	8.4	83.5		6.04	30	51 - 146
4-Methyl-2-pentanone	10.0	8.8	87.8		4.56	30	57 - 145
Acetone	10.0	3.0	29.7		21.4	30	14 - 150
Benzene	10.0	10	101		2.25	30	85 - 126
Bromochloromethane	10.0	10	101		2.05	30	77 - 128
Bromodichloromethane	10.0	8.9	89.0		2.44	30	79 - 128
Bromoform	10.0	8.2	82.3		2.64	30	78 - 133
Bromomethane	10.0	4.4	44.0		1.14	30	43 - 168
Carbon disulfide	10.0	11	106		3.69	30	68 - 146
Carbon tetrachloride	10.0	9.2	91.8		2.05	30	77 - 141
Chlorobenzene	10.0	8.8	87.5	*	2.37	30	88 - 120
Chloroethane	10.0	9.7	97.3		3.43	30	65 - 136
Chloroform	10.0	9.9	99.0		2.59	30	82 - 128
Chloromethane	10.0	6.3	63.1		0.636	30	43 - 155

FORM III **LCS / LCS DUPLICATE RECOVERY**

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	17I0914
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41433.00-Katonah Task 0500
Matrix:	Water		
Batch:	BI71307	Laboratory ID:	BI71307-BSD1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
cis-1,2-Dichloroethylene	10.0	9.4	94.0	3.55	30	83 - 129
cis-1,3-Dichloropropylene	10.0	8.6	85.7	0.00	30	80 - 131
Cyclohexane	10.0	10	99.9	2.28	30	63 - 149
Dibromochloromethane	10.0	8.6	85.5	1.62	30	80 - 130
Dichlorodifluoromethane	10.0	9.8	98.1	3.51	30	44 - 144
Ethyl Benzene	10.0	9.4	94.0	2.52	30	80 - 131
Isopropylbenzene	10.0	9.0	90.2	3.27	30	76 - 140
Methyl acetate	10.0	10	100	1.88	30	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	9.5	94.9	0.944	30	76 - 135
Methylcyclohexane	10.0	9.0	89.8	4.25	30	72 - 143
Methylene chloride	10.0	9.7	96.9	0.515	30	55 - 137
o-Xylene	10.0	8.7	86.8	2.28	30	78 - 130
p- & m- Xylenes	20.0	19	96.0	2.93	30	77 - 133
Styrene	10.0	9.4	94.1	2.10	30	67 - 132
Tetrachloroethylene	10.0	9.5	95.4	3.20	30	82 - 131
Toluene	10.0	9.1	90.8	2.29	30	80 - 127
trans-1,2-Dichloroethylene	10.0	9.9	99.4	2.88	30	80 - 132
trans-1,3-Dichloropropylene	10.0	8.3	82.7	2.39	30	78 - 131
Trichloroethylene	10.0	8.7	87.2	3.82	30	82 - 128
Trichlorofluoromethane	10.0	9.7	97.3	2.74	30	67 - 139
Vinyl Chloride	10.0	8.4	84.5	1.41	30	58 - 145

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601431.D
Acq On : 27 Sep 2017 1:46 pm
InstName : MSVOA6
Operator : AS
Sample : BI71306-BS1
Misc : QBQV6092717A ICV AQU
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 28 14:08:14 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 11:12:10 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.145	70	173913	10.00	ppb		0.00
40) CHLOROBENZENE-d5 (ISTD)	9.198	117	754255	10.00	ppb	#	0.00
67) 1,2-DICHLOROBENZENE-d4...	12.183	152	246916	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.842	65	184081	9.75	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.50%				
51) Toluene-d8 (SURR)	7.692	98	1019826	9.45	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.50%				
70) p-Bromofluorobenzene (...	10.466	95	348089	10.73	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.30%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.530	85	231017m	11.18	ppb		
3) Chloromethane	1.752	50	94216	5.80	ppb		94
4) Vinyl Chloride	1.861	62	258839	10.20	ppb		99
5) Bromomethane	2.242	94	12828m	3.68	ppb		
6) Chloroethane	2.370	64	156501	11.08	ppb		99
7) Trichlorofluoromethane	2.654	101	351553	9.77	ppb		99
8) Ethanol	2.954	45	43129m	496.78	ppb		
9) Freon-113	3.224	101	239883	10.32	ppb		93
10) 1,1-Dichloroethylene	3.232	61	305934	10.76	ppb	#	80
11) Acrolein	3.163	56	22411	11.69	ppb		92
12) Acetone	3.341	43	46424	8.79	ppb		95
13) Iodomethane	3.408	142	18375m	2.59	ppb		
14) Methyl Acetate	3.675	43	72684m	10.76	ppb		
15) Carbon disulfide	3.461	76	624833	13.14	ppb		100
16) tert-Butyl Alcohol (TBA)	3.928	59	17252	12.96	ppb	#	97
17) Methylene Chloride	3.775	49	212884	10.17	ppb	#	71
18) Acrylonitrile	4.050	53	41612	9.91	ppb	#	91
19) trans-1,2-Dichloroethy...	4.037	61	296193	10.80	ppb	#	71
20) tert-Butyl Methyl Ethe...	4.025	73	602827	10.57	ppb	#	95
21) 1,1-Dichloroethane	4.471	63	425935	11.27	ppb	#	96
22) Vinyl Acetate	4.512	43	510119	10.28	ppb		100
23) Diisopropyl ether (DIPE)	4.504	45	605251	10.93	ppb		96
24) Ethyl-tert-Butyl ether...	4.860	59	655344	10.34	ppb		95
25) cis-1,2-Dichloroethylene	5.044	61	364005	10.63	ppb		95
26) 2-Butanone	5.077	72	19742	9.51	ppb		89
27) 2,2-Dichloropropane	5.021	77	388569	10.41	ppb		98
28) Tetrahydrofuran	5.336	42	31133	10.10	ppb		83
29) Bromochloromethane	5.283	49	137251	11.05	ppb		91
30) Chloroform	5.358	83	460240	10.67	ppb		99
31) 1,1,1-Trichloroethane	5.508	97	407956	10.51	ppb	#	86
32) Cyclohexane	5.542	56	373127	10.91	ppb		88
33) 1,1-Dichloropropylene	5.667	75	359490	10.61	ppb		94
35) Carbon Tetrachloride	5.664	117	300333	9.03	ppb		100
36) tert-Amyl alcohol (TAA)	5.895	59	128985	105.32	ppb	#	65
37) 1,2-Dichloroethane	5.917	62	251363	10.16	ppb		99
38) Benzene	5.876	78	1060714	10.90	ppb	#	90
39) tert-Amyl methyl ether...	5.959	73	667269	10.31	ppb		98
41) Trichloroethylene	6.496	95	284738	9.78	ppb		94
42) Methyl Cyclohexane	6.655	83	500131	10.03	ppb		86
43) Methyl Methacrylate	6.819	69	123262	9.73	ppb	#	68
44) Dibromomethane	6.863	93	135519	9.86	ppb		95
45) Bromodichloromethane	7.011	83	329354	9.65	ppb		97
46) 1,2-Dichloropropane	6.727	63	237872	9.73	ppb		98
47) 1,4-Dioxane	6.877	88	23526	225.97	ppb		95
49) cis-1,3-Dichloropropene	7.442	75	394350	9.51	ppb		89
50) 4-Methyl-2-Pentanone	7.581	43	114298	9.91	ppb		85
52) Toluene	7.759	91	1214353	9.89	ppb		99
53) trans-1,3-Dichloropropene	8.007	75	330534	9.49	ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601431.D
Acq On : 27 Sep 2017 1:46 pm
InstName : MSVOA6
Operator : AS
Sample : BI71306-BS1
Misc : QBQV6092717A ICV AQU
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 28 14:08:14 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 11:12:10 2017
Response via : Initial Calibration

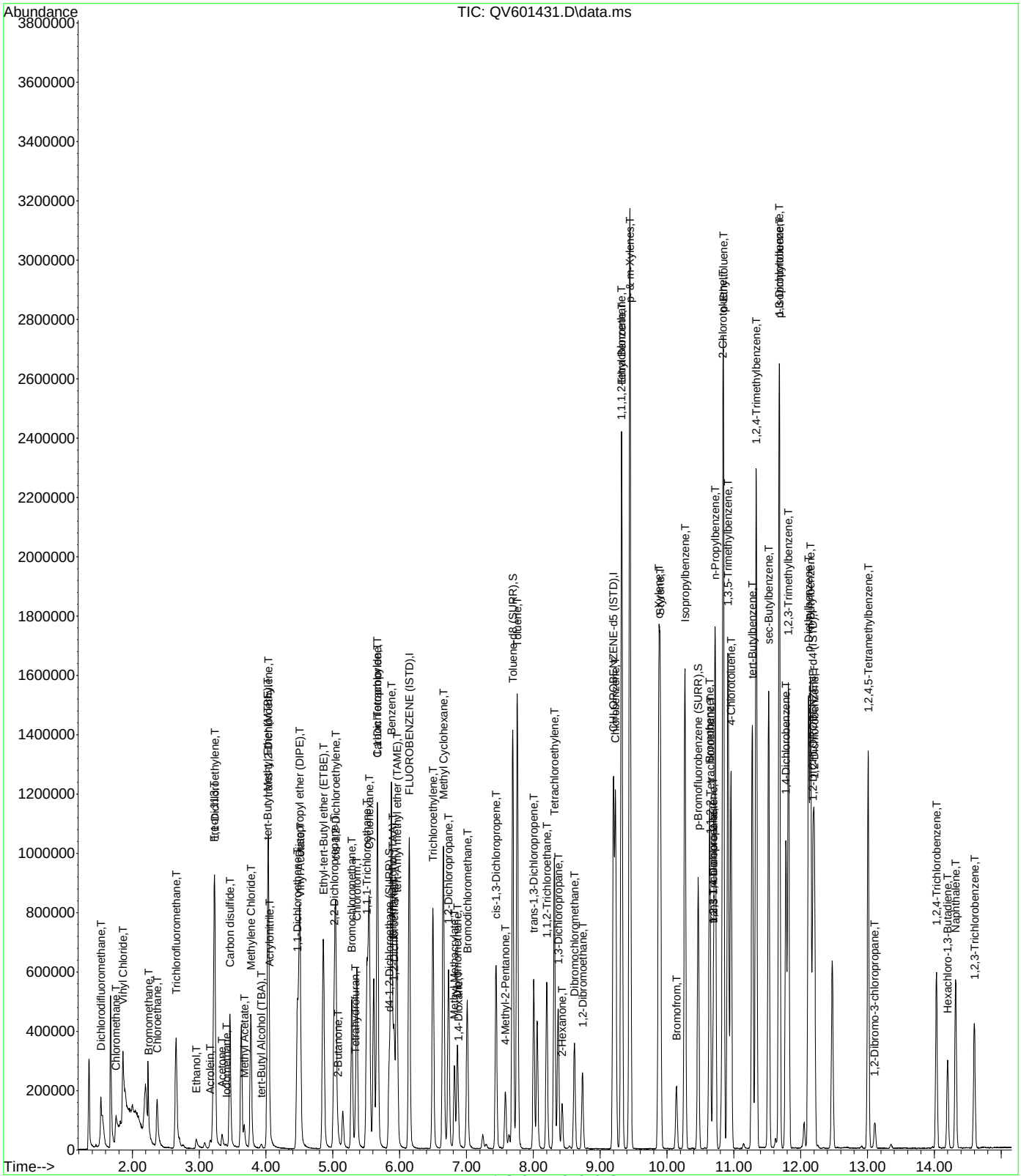
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) 1,1,2-Trichloroethane	8.202	97	194989	9.93	ppb		91
55) 1,3-Dichloropropane	8.374	76	325967	10.00	ppb		92
56) Tetrachloroethylene	8.316	166	272535	10.09	ppb	#	71
57) 2-Hexanone	8.430	43	89764	10.81	ppb	#	89
58) Dibromochloromethane	8.616	129	197915	9.48	ppb		97
59) 1,2-Dibromoethane	8.739	107	176250	9.89	ppb		92
60) Chlorobenzene	9.228	112	707233	9.48	ppb		95
61) 1,1,1,2-tetrachloroethane	9.317	131	221363	8.86	ppb		87
62) Ethyl Benzene	9.320	91	1346497	10.37	ppb		98
63) p- & m-Xylenes	9.445	91	1997588	21.02	ppb		95
64) o-Xylene	9.876	91	980438	9.51	ppb		100
65) Styrene	9.899	104	765525	10.33	ppb	#	77
66) Bromofrom	10.141	173	98424	9.31	ppb		97
68) p-Ethyltoluene	10.845	105	1257943m	10.76	ppb		
69) Isopropylbenzene	10.269	105	1266328	10.51	ppb		94
71) 1,1,2,2-Tetrachloroethane	10.647	83	203658	10.34	ppb	#	78
72) Bromobenzene	10.636	77	424444	10.56	ppb		87
73) trans-1,4-Dichloro-2-b...	10.694	75	215097	10.03	ppb	#	90
74) 1,2,3-Trichloropropane	10.694	110	57933	10.30	ppb	#	22
75) n-Propylbenzene	10.719	91	1501237	10.70	ppb		96
76) 2-Chlorotoluene	10.836	91	950674	10.05	ppb		100
77) 4-Chlorotoluene	10.956	91	850433	10.07	ppb		99
78) 1,3,5-Trimethylbenzene	10.911	105	1050646	10.85	ppb		99
79) tert-Butylbenzene	11.276	119	798723	9.94	ppb		97
80) 1,2,4-Trimethylbenzene	11.337	105	1043969	10.51	ppb	#	83
81) sec-Butylbenzene	11.521	105	1220594	10.08	ppb		98
82) 1,3-Dichlorobenzene	11.679	146	451409	9.67	ppb		96
83) p-Isopropyltoluene	11.682	119	1059929	10.55	ppb		98
84) 1,4-Dichlorobenzene	11.777	146	445796	9.90	ppb		95
85) 1,2,3-Trimethylbenzene	11.816	105	1037206	10.05	ppb		96
86) p-Diethylbenzene	12.116	105	570986	10.55	ppb	#	72
87) 1,2-Dichlorobenzene	12.205	146	388914	9.75	ppb	#	86
88) n-Butylbenzene	12.147	91	1158793	10.46	ppb		87
89) 1,2-Dibromo-3-chloropr...	13.107	75	25593	9.75	ppb		87
90) 1,2,4,5-Tetramethylben...	13.012	119	780093	10.16	ppb		98
91) 1,2,4-Trichlorobenzene	14.033	180	186901	10.51	ppb		97
92) Hexachloro-1,3-Butadiene	14.200	225	57950	8.80	ppb		96
93) Naphthalene	14.317	128	491648	10.00	ppb		98
94) 1,2,3-Trichlorobenzene	14.601	180	135740	10.79	ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601431.D
Acq On : 27 Sep 2017 1:46 pm
InstName : MSVOA6
Operator : AS
Sample : BI71306-BS1
Misc : QBQV6092717A ICV AQU
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 28 14:08:14 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 11:12:10 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601432.D
Acq On : 27 Sep 2017 2:13 pm
InstName : MSVOA6
Operator : AS
Sample : BI71306-BSD1
Misc : QBQV6092717A ICV AQU
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 28 14:10:31 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 11:12:10 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.142	70	174312	10.00	ppb		0.00
40) CHLOROBENZENE-d5 (ISTD)	9.197	117	755694	10.00	ppb	#	0.00
67) 1,2-DICHLOROBENZENE-d4...	12.185	152	249601	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.845	65	183644	9.71	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.10%				
51) Toluene-d8 (SURR)	7.689	98	1022136	9.45	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.50%				
70) p-Bromofluorobenzene (...	10.466	95	346956	10.58	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.80%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.529	85	227853m	11.00	ppb		
3) Chloromethane	1.752	50	89381	5.49	ppb		96
4) Vinyl Chloride	1.858	62	251877	9.90	ppb		97
5) Bromomethane	2.242	94	15149m	3.89	ppb		
6) Chloroethane	2.373	64	158423	11.19	ppb		99
7) Trichlorofluoromethane	2.654	101	354640	9.83	ppb		99
8) Ethanol	2.957	45	43217m	496.62	ppb		
9) Freon-113	3.224	101	238808	10.25	ppb	#	68
10) 1,1-Dichloroethylene	3.232	61	303253	10.64	ppb	#	79
11) Acrolein	3.165	56	23760	12.37	ppb		90
12) Acetone	3.346	43	45878	8.57	ppb		95
13) Iodomethane	3.402	142	22427m	2.95	ppb		
14) Methyl Acetate	3.672	43	75407	11.14	ppb	#	96
15) Carbon disulfide	3.460	76	626720	13.15	ppb		100
16) tert-Butyl Alcohol (TBA)	3.925	59	19569	14.67	ppb	#	97
17) Methylene Chloride	3.772	49	220705	10.52	ppb	#	75
18) Acrylonitrile	4.053	53	42296	10.05	ppb		99
19) trans-1,2-Dichloroethy...	4.034	61	296855	10.80	ppb		92
20) tert-Butyl Methyl Ethe...	4.028	73	618163	10.82	ppb		99
21) 1,1-Dichloroethane	4.470	63	424217	11.20	ppb		99
22) Vinyl Acetate	4.509	43	524311	10.54	ppb		100
23) Diisopropyl ether (DIPE)	4.501	45	605235	10.90	ppb		96
24) Ethyl-tert-Butyl ether...	4.857	59	668076	10.51	ppb	#	87
25) cis-1,2-Dichloroethylene	5.043	61	360747	10.51	ppb		93
26) 2-Butanone	5.074	72	23001	11.05	ppb		76
27) 2,2-Dichloropropane	5.027	77	389014	10.40	ppb		98
28) Tetrahydrofuran	5.333	42	31144	10.08	ppb		77
29) Bromochloromethane	5.286	49	136773	10.99	ppb	#	62
30) Chloroform	5.358	83	464004	10.73	ppb	#	96
31) 1,1,1-Trichloroethane	5.511	97	410016	10.54	ppb		99
32) Cyclohexane	5.544	56	375952	10.97	ppb		88
33) 1,1-Dichloropropylene	5.669	75	358313	10.55	ppb		91
35) Carbon Tetrachloride	5.667	117	309116	9.28	ppb		100
36) tert-Amyl alcohol (TAA)	5.892	59	135904	110.71	ppb		95
37) 1,2-Dichloroethane	5.917	62	254683	10.27	ppb		99
38) Benzene	5.875	78	1060698	10.87	ppb	#	94
39) tert-Amyl methyl ether...	5.959	73	676486	10.43	ppb		98
41) Trichloroethylene	6.499	95	280393	9.61	ppb		94
42) Methyl Cyclohexane	6.652	83	501011	10.03	ppb		86
43) Methyl Methacrylate	6.819	69	128057	10.09	ppb	#	68
44) Dibromomethane	6.863	93	136715	9.93	ppb		95
45) Bromodichloromethane	7.008	83	336990	9.85	ppb		97
46) 1,2-Dichloropropane	6.729	63	241282	9.85	ppb		97
47) 1,4-Dioxane	6.880	88	26225	251.41	ppb		98
49) cis-1,3-Dichloropropene	7.442	75	408095	9.83	ppb		89
50) 4-Methyl-2-Pentanone	7.581	43	121641	10.52	ppb		86
52) Toluene	7.759	91	1224557	9.95	ppb		99
53) trans-1,3-Dichloropropene	8.007	75	335363	9.61	ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601432.D
Acq On : 27 Sep 2017 2:13 pm
InstName : MSVOA6
Operator : AS
Sample : BI71306-BSD1
Misc : QBQV6092717A ICV AQU
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 28 14:10:31 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 11:12:10 2017
Response via : Initial Calibration

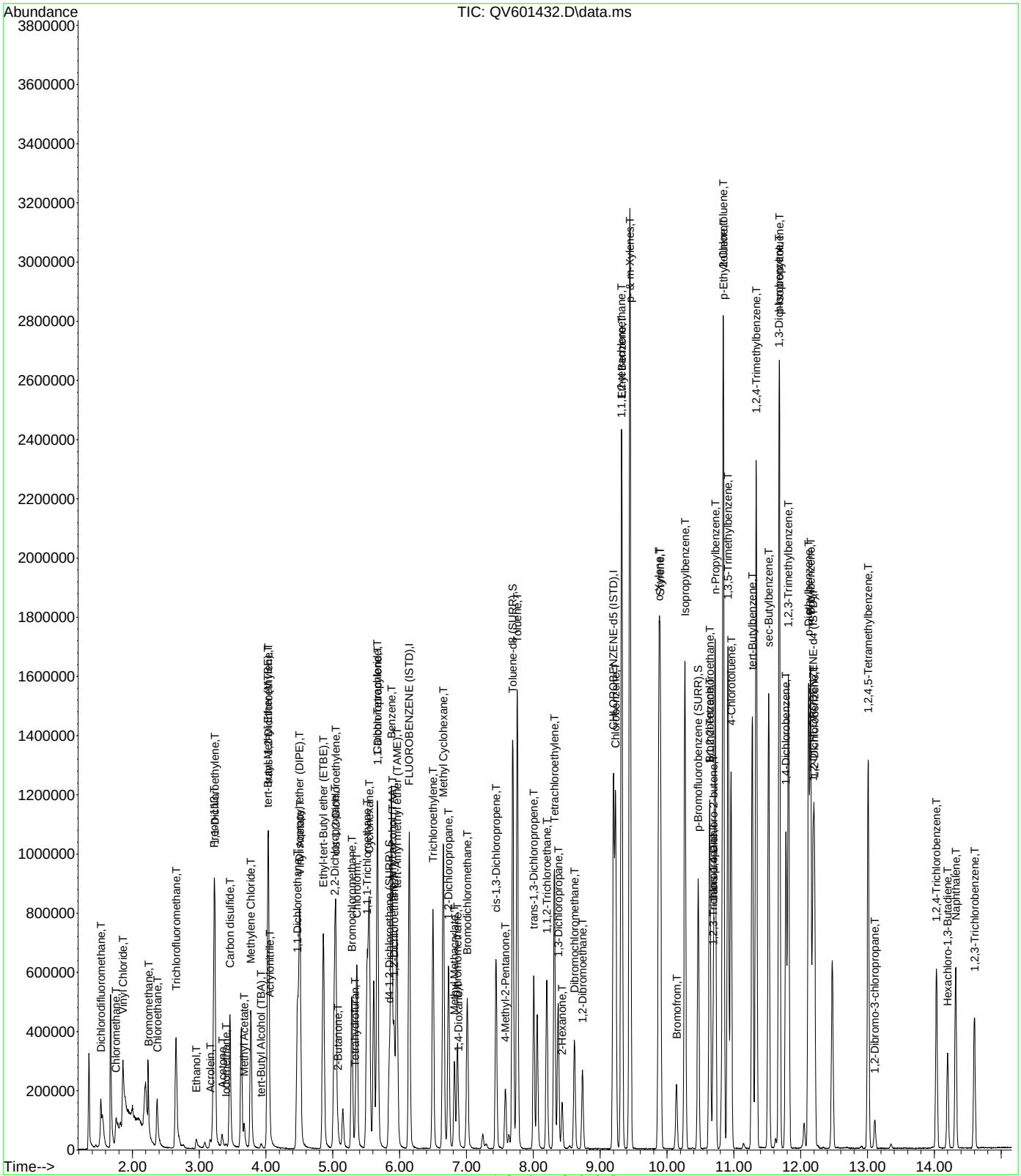
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) 1,1,2-Trichloroethane	8.201	97	198957	10.12	ppb		90
55) 1,3-Dichloropropane	8.371	76	335341	10.27	ppb	#	82
56) Tetrachloroethylene	8.315	166	275997	10.20	ppb		97
57) 2-Hexanone	8.429	43	91219	10.97	ppb	#	89
58) Dibromochloromethane	8.613	129	199794	9.55	ppb		98
59) 1,2-Dibromoethane	8.736	107	182650	10.23	ppb		92
60) Chlorobenzene	9.231	112	710580	9.51	ppb		95
61) 1,1,1,2-tetrachloroethane	9.317	131	228829	9.15	ppb		89
62) Ethyl Benzene	9.323	91	1337672	10.28	ppb		99
63) p- & m-Xylenes	9.445	91	2015777	21.17	ppb		95
64) o-Xylene	9.879	91	981511	9.50	ppb		99
65) Styrene	9.898	104	772177	10.40	ppb	#	77
66) Bromofrom	10.146	173	100884	9.52	ppb	#	85
68) p-Ethyltoluene	10.844	105	1268166	10.73	ppb	#	69
69) Isopropylbenzene	10.269	105	1265018	10.39	ppb		94
71) 1,1,2,2-Tetrachloroethane	10.641	83	212036	10.65	ppb	#	97
72) Bromobenzene	10.636	77	428199	10.54	ppb		87
73) trans-1,4-Dichloro-2-b...	10.697	75	223811	10.33	ppb	#	89
74) 1,2,3-Trichloropropane	10.691	110	60097	10.57	ppb	#	24
75) n-Propylbenzene	10.722	91	1494656	10.54	ppb		97
76) 2-Chlorotoluene	10.842	91	954674	9.98	ppb		100
77) 4-Chlorotoluene	10.959	91	853579	10.00	ppb		99
78) 1,3,5-Trimethylbenzene	10.911	105	1057108	10.80	ppb		99
79) tert-Butylbenzene	11.276	119	809874	9.97	ppb		98
80) 1,2,4-Trimethylbenzene	11.334	105	1054927	10.51	ppb	#	83
81) sec-Butylbenzene	11.521	105	1224492	10.00	ppb		98
82) 1,3-Dichlorobenzene	11.676	146	450060	9.54	ppb		95
83) p-Isopropyltoluene	11.682	119	1067053	10.50	ppb		99
84) 1,4-Dichlorobenzene	11.779	146	444841	9.78	ppb		94
85) 1,2,3-Trimethylbenzene	11.815	105	1042651	10.00	ppb		95
86) p-Diethylbenzene	12.119	105	579909	10.60	ppb	#	73
87) 1,2-Dichlorobenzene	12.205	146	399116	9.89	ppb	#	86
88) n-Butylbenzene	12.149	91	1172590	10.47	ppb	#	86
89) 1,2-Dibromo-3-chloropr...	13.109	75	26610	10.03	ppb	#	86
90) 1,2,4,5-Tetramethylben...	13.009	119	798897	10.29	ppb		98
91) 1,2,4-Trichlorobenzene	14.030	180	195439	10.87	ppb		96
92) Hexachloro-1,3-Butadiene	14.197	225	60866	9.14	ppb		93
93) Naphthalene	14.319	128	518722	10.55	ppb		98
94) 1,2,3-Trichlorobenzene	14.603	180	144850	11.39	ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601432.D
Acq On : 27 Sep 2017 2:13 pm
InstName : MSVOA6
Operator : AS
Sample : BI71306-BSD1
Misc : QBQV6092717A ICV AQU
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 28 14:10:31 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 11:12:10 2017
Response via : Initial Calibration



Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601458.D
Acq On : 28 Sep 2017 2:38 am
InstName : MSVOA6
Operator : AS
Sample : BI71307-BS1
Misc : QBQV6092717B ICV AQU
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Sep 29 12:58:40 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 11:12:10 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.143	70	190187	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.197	117	826683	10.00	ppb	#	0.00
67) 1,2-DICHLOROBENZENE-d4...	12.180	152	282470	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.839	65	203850	9.88	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.80%				
51) Toluene-d8 (SURR)	7.689	98	1109121	9.37	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.70%				
70) p-Bromofluorobenzene (...	10.463	95	386642	10.42	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.20%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.530	85	229545m	10.16	ppb		
3) Chloromethane	1.752	50	111373m	6.27	ppb		
4) Vinyl Chloride	1.861	62	238023	8.57	ppb	#	89
5) Bromomethane	2.242	94	22106m	4.35	ppb		
6) Chloroethane	2.370	64	155598	10.07	ppb		100
7) Trichlorofluoromethane	2.654	101	393534	10.00	ppb		100
8) Ethanol	2.954	45	35043	338.07	ppb		100
9) Freon-113	3.218	101	237838	9.36	ppb		94
10) 1,1-Dichloroethylene	3.232	61	310553	9.99	ppb	#	80
11) Acrolein	3.160	56	22715	10.84	ppb		94
12) Acetone	3.344	43	34411m	3.68	ppb		
13) Iodomethane	3.408	142	15884m	2.24	ppb		
14) Methyl Acetate	3.669	43	75443	10.21	ppb		96
15) Carbon disulfide	3.460	76	574016	11.04	ppb		100
16) tert-Butyl Alcohol (TBA)	3.925	59	21455	14.74	ppb	#	97
17) Methylene Chloride	3.769	49	222897	9.74	ppb	#	74
18) Acrylonitrile	4.047	53	39517	8.60	ppb		97
19) trans-1,2-Dichloroethy...	4.034	61	306997	10.23	ppb		93
20) tert-Butyl Methyl Ethe...	4.025	73	597464	9.58	ppb		99
21) 1,1-Dichloroethane	4.465	63	436199	10.56	ppb		99
22) Vinyl Acetate	4.507	43	503275	9.27	ppb		100
23) Diisopropyl ether (DIPE)	4.495	45	625127	10.32	ppb		96
24) Ethyl-tert-Butyl ether...	4.852	59	659797	9.52	ppb		95
25) cis-1,2-Dichloroethylene	5.044	61	364645	9.74	ppb	#	84
26) 2-Butanone	5.071	72	18209	8.02	ppb	#	1
27) 2,2-Dichloropropane	5.018	77	305242	7.48	ppb	#	83
28) Tetrahydrofuran	5.333	42	30662	9.10	ppb		79
29) Bromochloromethane	5.280	49	140338	10.33	ppb		91
30) Chloroform	5.355	83	479142	10.16	ppb	#	96
31) 1,1,1-Trichloroethane	5.508	97	420612	9.91	ppb	#	86
32) Cyclohexane	5.542	56	382191	10.22	ppb		89
33) 1,1-Dichloropropylene	5.667	75	365887	9.88	ppb		85
35) Carbon Tetrachloride	5.661	117	340766	9.37	ppb		100
36) tert-Amyl alcohol (TAA)	5.889	59	125795	93.92	ppb	#	83
37) 1,2-Dichloroethane	5.912	62	264113	9.76	ppb		99
38) Benzene	5.873	78	1101983	10.35	ppb	#	91
39) tert-Amyl methyl ether...	5.953	73	658356	9.30	ppb		98
41) Trichloroethylene	6.493	95	289207	9.06	ppb		94
42) Methyl Cyclohexane	6.649	83	512118	9.37	ppb		86
43) Methyl Methacrylate	6.816	69	123915	8.93	ppb		95
44) Dibromomethane	6.860	93	136598	9.07	ppb		95
45) Bromodichloromethane	7.008	83	341277	9.12	ppb		97
46) 1,2-Dichloropropane	6.730	63	246813	9.21	ppb	#	89
47) 1,4-Dioxane	6.877	88	24142	211.57	ppb		96
48) 2-Chloroethyl vinyl ether	7.628	63	3082	0.32	ppb	#	87
49) cis-1,3-Dichloropropene	7.439	75	389482	8.57	ppb		88
50) 4-Methyl-2-Pentanone	7.578	43	116142	9.19	ppb		85
52) Toluene	7.756	91	1250050	9.29	ppb		99

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601458.D
Acq On : 28 Sep 2017 2:38 am
InstName : MSVOA6
Operator : AS
Sample : BI71307-BS1
Misc : QBQV6092717B ICV AQU
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Sep 29 12:58:40 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 11:12:10 2017
Response via : Initial Calibration

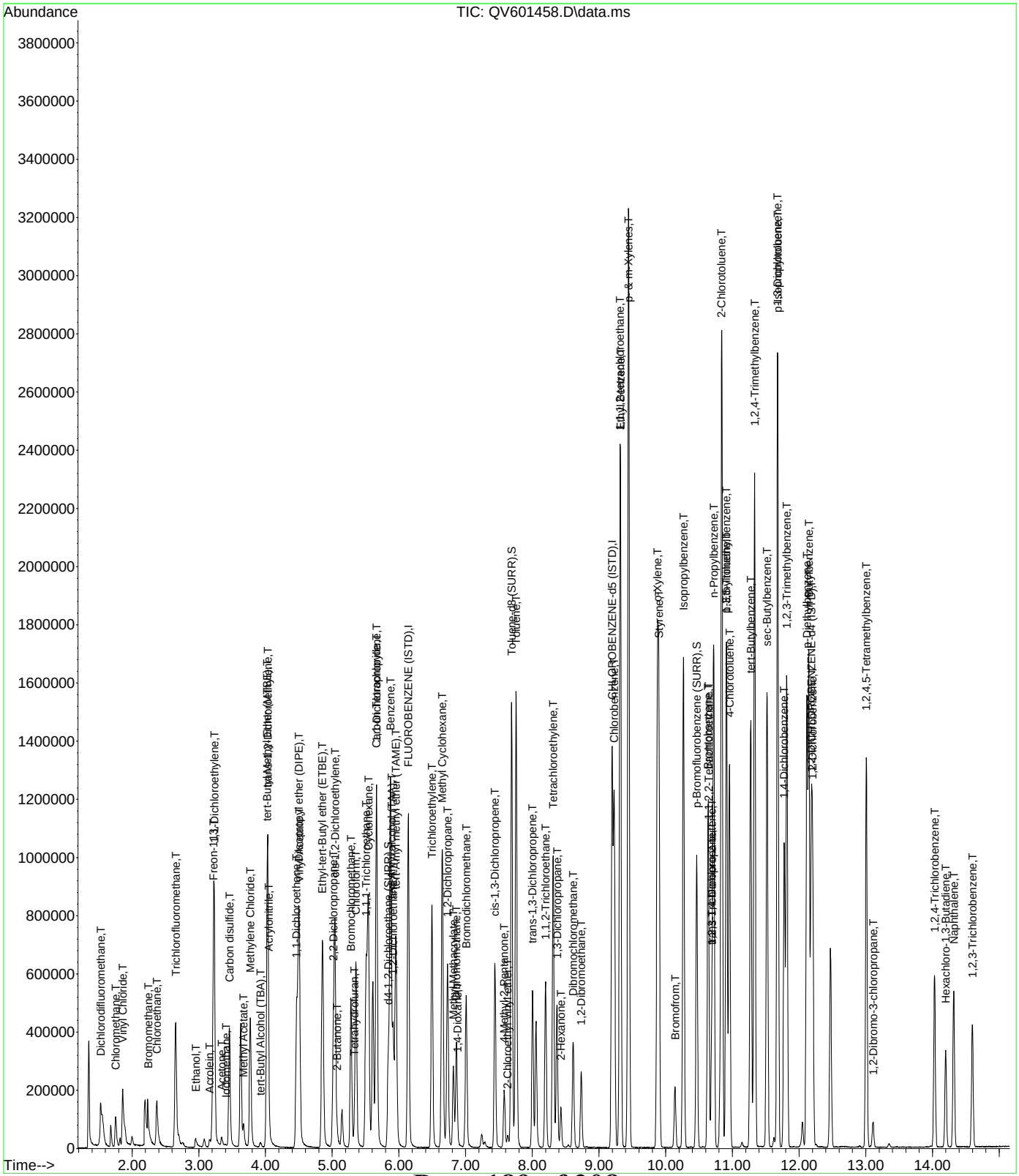
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	8.004	75	323478	8.47	ppb		99
54) 1,1,2-Trichloroethane	8.196	97	194763	9.05	ppb		90
55) 1,3-Dichloropropane	8.371	76	332048	9.30	ppb	#	82
56) Tetrachloroethylene	8.313	166	291766	9.85	ppb	#	70
57) 2-Hexanone	8.430	43	80692	8.87	ppb	#	90
58) Dibromochloromethane	8.610	129	198746	8.69	ppb		97
59) 1,2-Dibromoethane	8.733	107	181407	9.29	ppb		93
60) Chlorobenzene	9.228	112	732463	8.96	ppb		96
61) 1,1,1,2-tetrachloroethane	9.314	131	231030	8.44	ppb		89
62) Ethyl Benzene	9.323	91	1372394	9.64	ppb		98
63) p- & m-Xylenes	9.442	91	2057679	19.76	ppb		96
64) o-Xylene	9.876	91	1003632	8.88	ppb		100
65) Styrene	9.899	104	780290	9.61	ppb	#	77
66) Bromofrom	10.141	173	97881	8.45	ppb		98
68) p-Ethyltoluene	10.909	105	1075502	8.04	ppb		98
69) Isopropylbenzene	10.266	105	1284299	9.32	ppb		94
71) 1,1,2,2-Tetrachloroethane	10.644	83	199981	8.88	ppb	#	48
72) Bromobenzene	10.633	77	435148	9.46	ppb		88
73) trans-1,4-Dichloro-2-b...	10.691	75	206165	8.41	ppb		91
74) 1,2,3-Trichloropropane	10.691	110	59103	9.19	ppb	#	79
75) n-Propylbenzene	10.719	91	1511319	9.42	ppb		97
76) 2-Chlorotoluene	10.836	91	979098	9.05	ppb		100
77) 4-Chlorotoluene	10.956	91	873036	9.04	ppb		99
78) 1,3,5-Trimethylbenzene	10.909	105	1075502	9.71	ppb		99
79) tert-Butylbenzene	11.276	119	824796	8.97	ppb		97
80) 1,2,4-Trimethylbenzene	11.331	105	1073157	9.44	ppb	#	83
81) sec-Butylbenzene	11.518	105	1259200	9.09	ppb		98
82) 1,3-Dichlorobenzene	11.676	146	462882	8.67	ppb		96
83) p-Isopropyltoluene	11.679	119	1090339	9.48	ppb		99
84) 1,4-Dichlorobenzene	11.774	146	449772	8.73	ppb		95
85) 1,2,3-Trimethylbenzene	11.813	105	1067484	9.04	ppb		95
86) p-Diethylbenzene	12.116	105	590171	9.53	ppb	#	73
87) 1,2-Dichlorobenzene	12.202	146	395793	8.67	ppb		97
88) n-Butylbenzene	12.147	91	1201378	9.48	ppb	#	87
89) 1,2-Dibromo-3-chloropr...	13.112	75	24442	8.14	ppb	#	60
90) 1,2,4,5-Tetramethylben...	13.006	119	817574	9.31	ppb		99
91) 1,2,4-Trichlorobenzene	14.033	180	188487	9.26	ppb		97
92) Hexachloro-1,3-Butadiene	14.200	225	65509	8.69	ppb		98
93) Naphthalene	14.320	128	462171	7.78	ppb		98
94) 1,2,3-Trichlorobenzene	14.598	180	134673	9.36	ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601458.D
Acq On : 28 Sep 2017 2:38 am
InstName : MSVOA6
Operator : AS
Sample : BI71307-BS1
Misc : QBQV6092717B ICV AQU
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Sep 29 12:58:40 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 11:12:10 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601459.D
Acq On : 28 Sep 2017 3:04 am
InstName : MSVOA6
Operator : AS
Sample : BI71307-BSD1
Misc : QBQV6092717B ICV AQU
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Sep 29 12:59:46 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 11:12:10 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.143	70	193009	10.00	ppb		0.00
40) CHLOROBENZENE-d5 (ISTD)	9.198	117	840369	10.00	ppb	#	0.00
67) 1,2-DICHLOROBENZENE-d4...	12.183	152	289421	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.842	65	208359	9.95	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.50%				
51) Toluene-d8 (SURR)	7.690	98	1140620	9.48	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.80%				
70) p-Bromofluorobenzene (...	10.463	95	393521	10.35	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.50%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.530	85	224951m	9.81	ppb		
3) Chloromethane	1.755	50	113783m	6.31	ppb		
4) Vinyl Chloride	1.858	62	237934	8.45	ppb	#	96
5) Bromomethane	2.247	94	23006m	4.40	ppb		
6) Chloroethane	2.367	64	152529	9.73	ppb		100
7) Trichlorofluoromethane	2.654	101	388450	9.73	ppb		100
8) Ethanol	2.951	45	35776	340.82	ppb		100
9) Freon-113	3.218	101	232455	9.01	ppb		93
10) 1,1-Dichloroethylene	3.232	61	308643	9.78	ppb	#	81
11) Acrolein	3.163	56	23237	10.93	ppb		94
12) Acetone	3.344	43	32609m	2.97	ppb		
13) Iodomethane	3.408	142	17553m	2.36	ppb		
14) Methyl Acetate	3.669	43	75127	10.02	ppb		96
15) Carbon disulfide	3.458	76	561712	10.64	ppb		100
16) tert-Butyl Alcohol (TBA)	3.928	59	20792m	14.08	ppb		
17) Methylene Chloride	3.772	49	225131	9.69	ppb		75
18) Acrylonitrile	4.048	53	41506	8.91	ppb	#	61
19) trans-1,2-Dichloroethy...	4.036	61	302604	9.94	ppb	#	84
20) tert-Butyl Methyl Ethe...	4.025	73	600207	9.49	ppb		99
21) 1,1-Dichloroethane	4.468	63	430561	10.27	ppb		99
22) Vinyl Acetate	4.507	43	497366	9.03	ppb		100
23) Diisopropyl ether (DIPE)	4.498	45	619642	10.08	ppb	#	88
24) Ethyl-tert-Butyl ether...	4.852	59	663975	9.44	ppb	#	87
25) cis-1,2-Dichloroethylene	5.041	61	357337	9.40	ppb		93
26) 2-Butanone	5.071	72	19032	8.26	ppb	#	1
27) 2,2-Dichloropropane	5.027	77	303922	7.34	ppb		98
28) Tetrahydrofuran	5.330	42	29136	8.52	ppb	#	74
29) Bromochloromethane	5.283	49	139492	10.12	ppb	#	78
30) Chloroform	5.355	83	474119	9.90	ppb	#	96
31) 1,1,1-Trichloroethane	5.511	97	412953	9.59	ppb		99
32) Cyclohexane	5.542	56	379154	9.99	ppb		89
33) 1,1-Dichloropropylene	5.667	75	358869	9.55	ppb		84
35) Carbon Tetrachloride	5.661	117	338511	9.18	ppb		100
36) tert-Amyl alcohol (TAA)	5.892	59	122106	89.84	ppb		96
37) 1,2-Dichloroethane	5.914	62	257969	9.39	ppb		99
38) Benzene	5.873	78	1093614	10.12	ppb	#	90
39) tert-Amyl methyl ether...	5.956	73	669370	9.32	ppb		98
41) Trichloroethylene	6.496	95	282984	8.72	ppb		95
42) Methyl Cyclohexane	6.652	83	498990	8.98	ppb		86
43) Methyl Methacrylate	6.816	69	123051	8.72	ppb	#	68
44) Dibromomethane	6.860	93	135920	8.87	ppb		95
45) Bromodichloromethane	7.011	83	338443	8.90	ppb		97
46) 1,2-Dichloropropane	6.727	63	245736	9.02	ppb		98
47) 1,4-Dioxane	6.877	88	21523	185.54	ppb		99
48) 2-Chloroethyl vinyl ether	7.631	63	3288	0.33	ppb	#	87
49) cis-1,3-Dichloropropene	7.439	75	395593	8.57	ppb		89
50) 4-Methyl-2-Pentanone	7.581	43	112784	8.78	ppb		84
52) Toluene	7.756	91	1242620	9.08	ppb		99

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601459.D
Acq On : 28 Sep 2017 3:04 am
InstName : MSVOA6
Operator : AS
Sample : BI71307-BSD1
Misc : QBQV6092717B ICV AQU
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Sep 29 12:59:46 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 11:12:10 2017
Response via : Initial Calibration

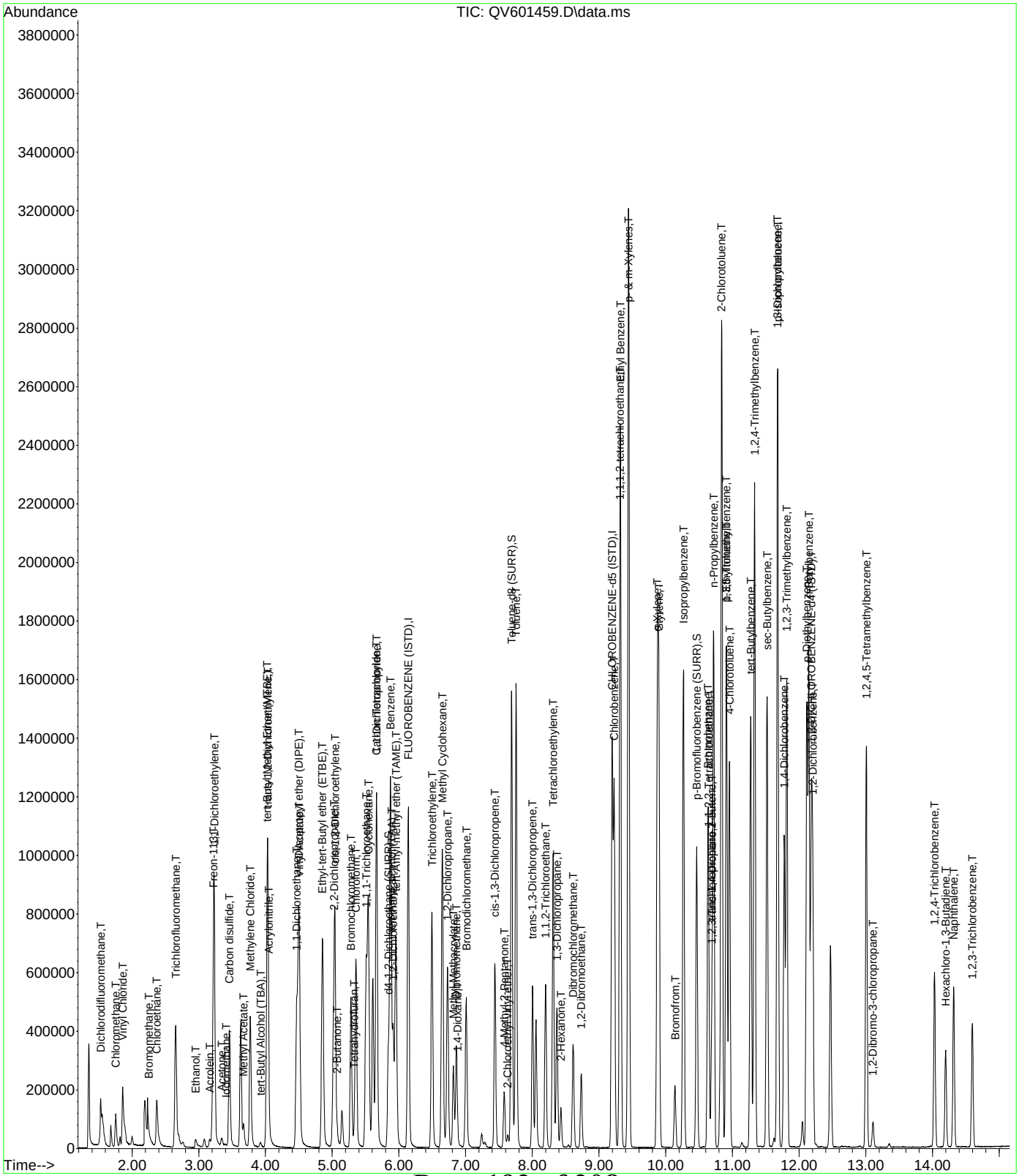
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	8.004	75	320840	8.27	ppb		99
54) 1,1,2-Trichloroethane	8.199	97	193556	8.85	ppb		90
55) 1,3-Dichloropropane	8.368	76	331408	9.13	ppb		92
56) Tetrachloroethylene	8.313	166	287306	9.54	ppb	#	71
57) 2-Hexanone	8.430	43	77249	8.35	ppb	#	88
58) Dibromochloromethane	8.610	129	198979	8.55	ppb		97
59) 1,2-Dibromoethane	8.733	107	177191	8.93	ppb		92
60) Chlorobenzene	9.228	112	727352	8.75	ppb		96
61) 1,1,1,2-tetrachloroethane	9.312	131	228753	8.22	ppb		89
62) Ethyl Benzene	9.320	91	1360263	9.40	ppb		99
63) p- & m-Xylenes	9.442	91	2031416	19.19	ppb		95
64) o-Xylene	9.874	91	997128	8.68	ppb		99
65) Styrene	9.899	104	777463	9.41	ppb	#	77
66) Bromofrom	10.141	173	96950	8.23	ppb	#	78
68) p-Ethyltoluene	10.909	105	1066769	7.78	ppb		98
69) Isopropylbenzene	10.266	105	1273732	9.02	ppb		94
71) 1,1,2,2-Tetrachloroethane	10.644	83	200574	8.69	ppb	#	68
72) Bromobenzene	10.633	77	432049	9.17	ppb		87
73) trans-1,4-Dichloro-2-b...	10.694	75	204529	8.14	ppb		91
74) 1,2,3-Trichloropropane	10.692	110	58051	8.81	ppb	#	84
75) n-Propylbenzene	10.719	91	1513362	9.21	ppb		97
76) 2-Chlorotoluene	10.836	91	967353	8.72	ppb		100
77) 4-Chlorotoluene	10.956	91	863847	8.73	ppb		99
78) 1,3,5-Trimethylbenzene	10.909	105	1066769	9.40	ppb		99
79) tert-Butylbenzene	11.276	119	822498	8.73	ppb		98
80) 1,2,4-Trimethylbenzene	11.334	105	1072325	9.21	ppb	#	84
81) sec-Butylbenzene	11.521	105	1244677	8.77	ppb		98
82) 1,3-Dichlorobenzene	11.677	146	460123	8.41	ppb		96
83) p-Isopropyltoluene	11.679	119	1082411	9.19	ppb		99
84) 1,4-Dichlorobenzene	11.777	146	452564	8.58	ppb		94
85) 1,2,3-Trimethylbenzene	11.816	105	1066148	8.81	ppb		95
86) p-Diethylbenzene	12.113	105	590243	9.30	ppb	#	38
87) 1,2-Dichlorobenzene	12.205	146	396935	8.49	ppb	#	86
88) n-Butylbenzene	12.144	91	1202751	9.26	ppb		90
89) 1,2-Dibromo-3-chloropr...	13.107	75	24658	8.02	ppb	#	45
90) 1,2,4,5-Tetramethylben...	13.009	119	816368	9.07	ppb		98
91) 1,2,4-Trichlorobenzene	14.030	180	190713	9.15	ppb		97
92) Hexachloro-1,3-Butadiene	14.200	225	64713	8.38	ppb		95
93) Naphthalene	14.317	128	453174	7.34	ppb		98
94) 1,2,3-Trichlorobenzene	14.595	180	132788	9.01	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601459.D
Acq On : 28 Sep 2017 3:04 am
InstName : MSVOA6
Operator : AS
Sample : BI71307-BSD1
Misc : QBQV6092717B ICV AQU
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Sep 29 12:59:46 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 11:12:10 2017
Response via : Initial Calibration



MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260C

KWF-MW1S

Laboratory: York Analytical Laboratories, Inc.
SDG: 17I0914
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41433.00-Katonah Task 0500
Matrix: Water
Batch: BI71306
Laboratory ID: BI71306-MS1
Preparation: EPA 5030B
Initial/Final: 25 mL / 25 mL
Source Sample Name: KWF-MW1S

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
1,1,1-Trichloroethane	10.0	ND	9.6	96.2	70 - 146
1,1,2,2-Tetrachloroethane	10.0	ND	8.8	87.5	74 - 121
1,1,2-Trichloro-1,2,2-trifluoroethane (	10.0	ND	8.8	88.5	21 - 217
1,1,2-Trichloroethane	10.0	ND	8.7	86.7	59 - 146
1,1-Dichloroethane	10.0	ND	10	102	54 - 146
1,1-Dichloroethylene	10.0	ND	9.6	96.2	44 - 165
1,2,3-Trichlorobenzene	10.0	ND	8.4	83.5	40 - 161
1,2,4-Trichlorobenzene	10.0	ND	8.5	84.6	41 - 161
1,2-Dibromo-3-chloropropane	10.0	ND	8.0	80.4	31 - 151
1,2-Dibromoethane	10.0	ND	8.9	89.2	75 - 125
1,2-Dichlorobenzene	10.0	ND	8.2	82.4	63 - 122
1,2-Dichloroethane	10.0	ND	9.1	91.4	68 - 131
1,2-Dichloropropane	10.0	ND	8.8	87.9	77 - 121
1,3-Dichlorobenzene	10.0	ND	8.1	81.2	74 - 119
1,4-Dichlorobenzene	10.0	ND	8.3	82.6	70 - 124
2-Butanone	10.0	ND	7.2	72.3	10 - 193
2-Hexanone	10.0	ND	8.6	85.9	53 - 133
4-Methyl-2-pentanone	10.0	ND	9.0	90.0	38 - 150
Acetone	10.0	ND	1.5	14.6	13 - 149
Benzene	10.0	ND	9.9	98.9	38 - 155
Bromochloromethane	10.0	ND	9.6	95.8	75 - 121
Bromodichloromethane	10.0	ND	8.7	87.0	70 - 129
Bromoform	10.0	ND	8.0	80.0	66 - 136
Bromomethane	10.0	ND	3.2	32.3	30 - 158
Carbon disulfide	10.0	ND	11	109	10 - 138
Carbon tetrachloride	10.0	ND	8.9	89.1	71 - 146
Chlorobenzene	10.0	ND	8.5	85.0	81 - 117
Chloroethane	10.0	ND	10	101	51 - 145
Chloroform	10.0	ND	9.9	98.6	80 - 124
Chloromethane	10.0	ND	4.8	47.8	16 - 163
cis-1,2-Dichloroethylene	10.0	ND	9.6	95.9	76 - 125
cis-1,3-Dichloropropylene	10.0	ND	8.4	84.0	58 - 131

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260C

KWF-MW1S

Laboratory:	York Analytical Laboratories, Inc.	SDG:	17I0914
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41433.00-Katonah Task 0500
Matrix:	Water		
Batch:	BI71306	Laboratory ID:	BI71306-MS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

Source Sample Name: KWF-MW1S

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Cyclohexane	10.0	ND	9.8	98.5	70 - 130
Dibromochloromethane	10.0	ND	8.3	83.1	71 - 129
Dichlorodifluoromethane	10.0	ND	9.0	90.2	30 - 147
Ethyl Benzene	10.0	ND	9.1	91.4	72 - 128
Isopropylbenzene	10.0	ND	8.8	88.3	66 - 139
Methyl acetate	10.0	ND	9.3	93.1	10 - 200
Methyl tert-butyl ether (MTBE)	10.0	ND	9.4	94.4	75 - 128
Methylcyclohexane	10.0	ND	8.8	88.2	70 - 130
Methylene chloride	10.0	ND	9.6	95.7	57 - 128
o-Xylene	10.0	ND	8.4	84.4	69 - 126
p- & m- Xylenes	20.0	ND	19	93.4	67 - 130
Styrene	10.0	ND	9.0	90.0	69 - 125
Tetrachloroethylene	10.0	0.50	8.7	81.9	64 - 139
Toluene	10.0	ND	8.8	88.2	76 - 123
trans-1,2-Dichloroethylene	10.0	ND	9.6	96.4	79 - 131
trans-1,3-Dichloropropylene	10.0	ND	8.2	81.7	55 - 130
Trichloroethylene	10.0	0.46	9.0	85.2	53 - 145
Trichlorofluoromethane	10.0	ND	9.4	94.0	61 - 142
Vinyl Chloride	10.0	ND	8.0	80.4	31 - 165

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260C

KWF-MW1S

Laboratory: York Analytical Laboratories, Inc.
SDG: 17I0914
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41433.00-Katonah Task 0500
Matrix: Water
Batch: BI71306
Laboratory ID: BI71306-MSD1
Preparation: EPA 5030B
Initial/Final: 25 mL / 25 mL
Source Sample Name: KWF-MW1S

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1-Trichloroethane	10.0	9.6	96.4	0.208	30	70 - 146
1,1,2,2-Tetrachloroethane	10.0	8.5	85.1	2.78	30	74 - 121
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	9.0	89.9	1.57	30	21 - 217
1,1,2-Trichloroethane	10.0	8.7	86.6	0.115	30	59 - 146
1,1-Dichloroethane	10.0	10	101	0.494	30	54 - 146
1,1-Dichloroethylene	10.0	9.8	97.9	1.75	30	44 - 165
1,2,3-Trichlorobenzene	10.0	8.4	84.4	1.07	30	40 - 161
1,2,4-Trichlorobenzene	10.0	8.2	82.2	2.88	30	41 - 161
1,2-Dibromo-3-chloropropane	10.0	4.6	45.7	55.0 *	30	31 - 151
1,2-Dibromoethane	10.0	8.7	86.9	2.61	30	75 - 125
1,2-Dichlorobenzene	10.0	8.2	82.0	0.487	30	63 - 122
1,2-Dichloroethane	10.0	9.0	89.5	2.10	30	68 - 131
1,2-Dichloropropane	10.0	9.0	89.8	2.14	30	77 - 121
1,3-Dichlorobenzene	10.0	8.0	80.4	0.990	30	74 - 119
1,4-Dichlorobenzene	10.0	8.2	82.1	0.607	30	70 - 124
2-Butanone	10.0	8.2	82.3	12.9	30	10 - 193
2-Hexanone	10.0	8.4	83.7	2.59	30	53 - 133
4-Methyl-2-pentanone	10.0	8.9	89.4	0.669	30	38 - 150
Acetone	10.0	1.1	11.3 *	25.5	30	13 - 149
Benzene	10.0	9.9	99.2	0.303	30	38 - 155
Bromochloromethane	10.0	9.8	97.9	2.17	30	75 - 121
Bromodichloromethane	10.0	8.8	87.8	0.915	30	70 - 129
Bromoform	10.0	8.1	81.2	1.49	30	66 - 136
Bromomethane	10.0	3.5	35.3	8.88	30	30 - 158
Carbon disulfide	10.0	11	109	0.458	30	10 - 138
Carbon tetrachloride	10.0	9.1	90.9	2.00	30	71 - 146
Chlorobenzene	10.0	8.6	85.8	0.937	30	81 - 117
Chloroethane	10.0	10	103	1.76	30	51 - 145
Chloroform	10.0	9.8	97.6	1.02	30	80 - 124
Chloromethane	10.0	5.4	54.4	12.9	30	16 - 163
cis-1,2-Dichloroethylene	10.0	9.5	95.4	0.523	30	76 - 125
cis-1,3-Dichloropropylene	10.0	8.7	86.6	3.05	30	58 - 131
Cyclohexane	10.0	9.9	99.4	0.910	30	70 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260C

KWF-MW1S

Laboratory: York Analytical Laboratories, Inc.
SDG: 17I0914
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41433.00-Katonah Task 0500
Matrix: Water
Batch: BI71306
Laboratory ID: BI71306-MSD1
Preparation: EPA 5030B
Initial/Final: 25 mL / 25 mL
Source Sample Name: KWF-MW1S

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dibromochloromethane	10.0	8.4	84.2	1.31	30	71 - 129
Dichlorodifluoromethane	10.0	9.5	94.9	5.08	30	30 - 147
Ethyl Benzene	10.0	9.3	92.9	1.63	30	72 - 128
Isopropylbenzene	10.0	8.9	88.7	0.452	30	66 - 139
Methyl acetate	10.0	8.9	88.9	4.62	30	10 - 200
Methyl tert-butyl ether (MTBE)	10.0	9.4	93.8	0.638	30	75 - 128
Methylcyclohexane	10.0	8.9	88.8	0.678	30	70 - 130
Methylene chloride	10.0	9.4	94.1	1.69	30	57 - 128
o-Xylene	10.0	8.5	85.0	0.708	30	69 - 126
p- & m- Xylenes	20.0	19	94.5	1.17	30	67 - 130
Styrene	10.0	9.2	91.7	1.87	30	69 - 125
Tetrachloroethylene	10.0	8.9	84.3	2.72	30	64 - 139
Toluene	10.0	9.0	89.7	1.69	30	76 - 123
trans-1,2-Dichloroethylene	10.0	9.7	96.6	0.207	30	79 - 131
trans-1,3-Dichloropropylene	10.0	8.3	82.6	1.10	30	55 - 130
Trichloroethylene	10.0	9.1	86.4	1.33	30	53 - 145
Trichlorofluoromethane	10.0	9.7	96.8	2.94	30	61 - 142
Vinyl Chloride	10.0	8.3	82.7	2.82	30	31 - 165

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601450.D
Acq On : 27 Sep 2017 11:06 pm
InstName : MSVOA6
Operator : AS
Sample : BI71306-MS1
Misc : QBQV6092717A 17I0914-03 8260 TCL/SOM D
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 29 12:54:19 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 13:44:47 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.142	70	184977	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.197	117	808219	10.00	ppb	#	0.00
67) 1,2-DICHLOROBENZENE-d4...	12.186	152	278510	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.842	65	202344	10.08	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.80%				
51) Toluene-d8 (SURR)	7.689	98	1086325	9.39	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.90%				
70) p-Bromofluorobenzene (...	10.466	95	379781	10.38	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.80%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.527	85	198298m	9.02	ppb		
3) Chloromethane	1.752	50	82495	4.78	ppb		96
4) Vinyl Chloride	1.858	62	217084	8.04	ppb	#	85
5) Bromomethane	2.245	94	8451m	3.23	ppb		
6) Chloroethane	2.370	64	152110	10.12	ppb		99
7) Trichlorofluoromethane	2.651	101	359800	9.40	ppb		99
8) Ethanol	2.954	45	35914m	362.73	ppb		
9) Freon-113	3.221	101	218858	8.85	ppb		93
10) 1,1-Dichloroethylene	3.229	61	290914	9.62	ppb	#	79
11) Acrolein	3.165	56	15345m	7.53	ppb		
12) Acetone	3.341	43	26563m	1.46	ppb		
13) Iodomethane	3.399	142	9406m	1.73	ppb		
14) Methyl Acetate	3.675	43	66866	9.31	ppb		96
15) Carbon disulfide	3.458	76	553413	10.94	ppb		100
16) tert-Butyl Alcohol (TBA)	3.928	59	17344	12.25	ppb	#	97
17) Methylene Chloride	3.775	49	213129	9.57	ppb		77
18) Acrylonitrile	4.053	53	36378	8.14	ppb	#	60
19) trans-1,2-Dichloroethy...	4.034	61	281382	9.64	ppb		92
20) tert-Butyl Methyl Ethe...	4.025	73	572761	9.44	ppb		99
21) 1,1-Dichloroethane	4.468	63	407967	10.15	ppb	#	96
22) Vinyl Acetate	4.507	43	481880	9.13	ppb		100
23) Diisopropyl ether (DIPE)	4.498	45	577522	9.80	ppb		96
24) Ethyl-tert-Butyl ether...	4.854	59	626306	9.29	ppb		95
25) cis-1,2-Dichloroethylene	5.041	61	349109	9.59	ppb		95
26) 2-Butanone	5.071	72	15963	7.23	ppb		77
27) 2,2-Dichloropropane	5.024	77	354159	8.92	ppb		98
28) Tetrahydrofuran	5.336	42	29127	8.88	ppb		82
29) Bromochloromethane	5.286	49	126536	9.58	ppb	#	78
30) Chloroform	5.355	83	452305	9.86	ppb	#	96
31) 1,1,1-Trichloroethane	5.511	97	396863	9.62	ppb		99
32) Cyclohexane	5.544	56	358265	9.85	ppb		88
33) 1,1-Dichloropropylene	5.667	75	341454	9.48	ppb		87
35) Carbon Tetrachloride	5.664	117	314910	8.91	ppb	#	59
36) tert-Amyl alcohol (TAA)	5.892	59	121586	93.34	ppb	#	84
37) 1,2-Dichloroethane	5.914	62	240589	9.14	ppb	#	97
38) Benzene	5.875	78	1024103	9.89	ppb	#	90
39) tert-Amyl methyl ether...	5.953	73	642091	9.33	ppb		98
41) Trichloroethylene	6.496	95	280219	8.98	ppb		94
42) Methyl Cyclohexane	6.652	83	471442	8.82	ppb		86
43) Methyl Methacrylate	6.816	69	117784	8.68	ppb	#	68
44) Dibromomethane	6.863	93	127851	8.68	ppb		95
45) Bromodichloromethane	7.008	83	318115	8.70	ppb		97
46) 1,2-Dichloropropane	6.727	63	230374	8.79	ppb	#	89
47) 1,4-Dioxane	6.877	88	21214	190.16	ppb		99
49) cis-1,3-Dichloropropene	7.439	75	373200	8.40	ppb		89
50) 4-Methyl-2-Pentanone	7.578	43	111285	9.00	ppb		87
52) Toluene	7.759	91	1160082	8.82	ppb		99
53) trans-1,3-Dichloropropene	8.004	75	305071	8.17	ppb		98

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601450.D
Acq On : 27 Sep 2017 11:06 pm
InstName : MSVOA6
Operator : AS
Sample : BI71306-MS1
Misc : QBQV6092717A 17I0914-03 8260 TCL/SOM D
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 29 12:54:19 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 13:44:47 2017
Response via : Initial Calibration

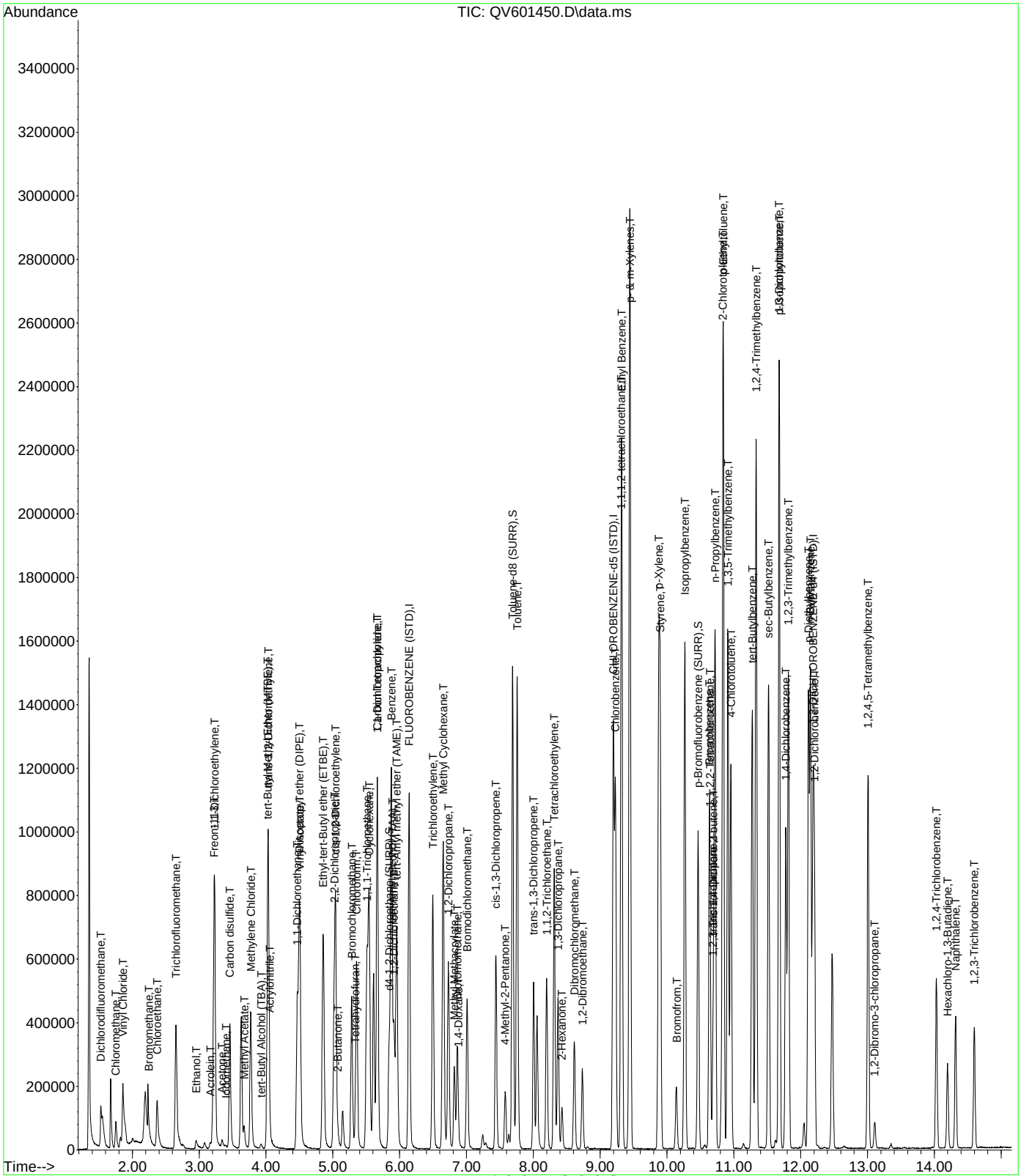
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) 1,1,2-Trichloroethane	8.201	97	182404	8.67	ppb		90
55) 1,3-Dichloropropane	8.368	76	314318	9.00	ppb		93
56) Tetrachloroethylene	8.313	166	251661	8.69	ppb		97
57) 2-Hexanone	8.427	43	76451	8.59	ppb	#	88
58) Dibromochloromethane	8.613	129	185971	8.31	ppb		96
59) 1,2-Dibromoethane	8.736	107	170235	8.92	ppb		93
60) Chlorobenzene	9.228	112	679202	8.50	ppb		96
61) 1,1,1,2-tetrachloroethane	9.311	131	216857	8.10	ppb		89
62) Ethyl Benzene	9.320	91	1271689	9.14	ppb		99
63) p- & m-Xylenes	9.445	91	1901894	18.68	ppb		95
64) o-Xylene	9.876	91	932565	8.44	ppb		99
65) Styrene	9.899	104	714661	9.00	ppb	#	77
66) Bromofrom	10.143	173	90679	8.00	ppb		98
68) p-Ethyltoluene	10.842	105	1189194	9.02	ppb	#	91
69) Isopropylbenzene	10.266	105	1199872	8.83	ppb		94
71) 1,1,2,2-Tetrachloroethane	10.644	83	194383	8.75	ppb	#	68
72) Bromobenzene	10.633	77	405092	8.93	ppb		87
73) trans-1,4-Dichloro-2-b...	10.691	75	198806	8.22	ppb	#	90
74) 1,2,3-Trichloropropane	10.689	110	56532	8.91	ppb		96
75) n-Propylbenzene	10.719	91	1418199	8.97	ppb		96
76) 2-Chlorotoluene	10.836	91	914185	8.57	ppb		100
77) 4-Chlorotoluene	10.956	91	809010	8.49	ppb		99
78) 1,3,5-Trimethylbenzene	10.911	105	995496	9.12	ppb		99
79) tert-Butylbenzene	11.276	119	777667	8.58	ppb		98
80) 1,2,4-Trimethylbenzene	11.334	105	997022	8.90	ppb	#	84
81) sec-Butylbenzene	11.518	105	1159105	8.49	ppb		99
82) 1,3-Dichlorobenzene	11.676	146	427627	8.12	ppb		96
83) p-Isopropyltoluene	11.679	119	987781	8.71	ppb		98
84) 1,4-Dichlorobenzene	11.777	146	419499	8.26	ppb		95
85) 1,2,3-Trimethylbenzene	11.815	105	991079	8.52	ppb		95
86) p-Diethylbenzene	12.116	105	535130	8.76	ppb	#	37
87) 1,2-Dichlorobenzene	12.205	146	370731	8.24	ppb	#	86
88) n-Butylbenzene	12.144	91	1084013	8.68	ppb		89
89) 1,2-Dibromo-3-chloropr...	13.106	75	23786	8.04	ppb	#	59
90) 1,2,4,5-Tetramethylben...	13.006	119	721804	8.33	ppb		98
91) 1,2,4-Trichlorobenzene	14.030	180	169672	8.46	ppb		97
92) Hexachloro-1,3-Butadiene	14.197	225	50946	6.86	ppb		96
93) Naphthalene	14.317	128	341823	5.23	ppb		98
94) 1,2,3-Trichlorobenzene	14.595	180	118401	8.35	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601450.D
Acq On : 27 Sep 2017 11:06 pm
InstName : MSVOA6
Operator : AS
Sample : BI71306-MS1
Misc : QBQV6092717A 17I0914-03 8260 TCL/SOM D
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 29 12:54:19 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 13:44:47 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601451.D
Acq On : 27 Sep 2017 11:33 pm
InstName : MSVOA6
Operator : AS
Sample : BI71306-MSD1
Misc : QBQV6092717A 17I0914-03 8260 TCL/SOM E
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 29 12:56:29 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 13:44:47 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.143	70	189895	10.00	ppb	#	0.00
40) CHLOROBENZENE-d5 (ISTD)	9.195	117	820454	10.00	ppb		0.00
67) 1,2-DICHLOROBENZENE-d4...	12.186	152	286994	10.00	ppb		0.00
System Monitoring Compounds							
34) d4-1,2-Dichloroethane ...	5.842	65	206555	10.02	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.20%				
51) Toluene-d8 (SURR)	7.690	98	1100006	9.37	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.70%				
70) p-Bromofluorobenzene (...	10.466	95	388502	10.30	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.00%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.527	85	214268	9.49	ppb	#	93
3) Chloromethane	1.752	50	96515	5.44	ppb		98
4) Vinyl Chloride	1.858	62	229332	8.27	ppb	#	85
5) Bromomethane	2.245	94	12284m	3.53	ppb		
6) Chloroethane	2.370	64	158924	10.30	ppb		99
7) Trichlorofluoromethane	2.651	101	380411	9.68	ppb		100
8) Ethanol	2.954	45	35002m	338.24	ppb		
9) Freon-113	3.221	101	228164	8.99	ppb	#	67
10) 1,1-Dichloroethylene	3.230	61	303856	9.79	ppb	#	80
11) Acrolein	3.166	56	15404	7.36	ppb		94
12) Acetone	3.344	43	26209m	1.13	ppb		
13) Iodomethane	3.399	142	12719m	1.98	ppb		
14) Methyl Acetate	3.672	43	65548	8.89	ppb	#	96
15) Carbon disulfide	3.458	76	565804	10.89	ppb		100
16) tert-Butyl Alcohol (TBA)	3.928	59	18164	12.50	ppb	#	97
17) Methylene Chloride	3.772	49	215195	9.41	ppb	#	75
18) Acrylonitrile	4.045	53	39335	8.58	ppb	#	90
19) trans-1,2-Dichloroethy...	4.034	61	289354	9.66	ppb		92
20) tert-Butyl Methyl Ethe...	4.023	73	584200	9.38	ppb	#	93
21) 1,1-Dichloroethane	4.465	63	416815	10.10	ppb		99
22) Vinyl Acetate	4.509	43	495174	9.14	ppb		100
23) Diisopropyl ether (DIPE)	4.498	45	598717	9.90	ppb	#	93
24) Ethyl-tert-Butyl ether...	4.854	59	638742	9.23	ppb	#	86
25) cis-1,2-Dichloroethylene	5.044	61	356631	9.54	ppb	#	84
26) 2-Butanone	5.071	72	18659m	8.23	ppb		
27) 2,2-Dichloropropane	5.021	77	356328	8.75	ppb	#	83
28) Tetrahydrofuran	5.336	42	28968	8.61	ppb		82
29) Bromochloromethane	5.280	49	132776	9.79	ppb		91
30) Chloroform	5.355	83	459644	9.76	ppb	#	96
31) 1,1,1-Trichloroethane	5.508	97	408392	9.64	ppb	#	86
32) Cyclohexane	5.539	56	371208	9.94	ppb		89
33) 1,1-Dichloropropylene	5.664	75	351887	9.51	ppb		85
35) Carbon Tetrachloride	5.661	117	330000	9.09	ppb		99
36) tert-Amyl alcohol (TAA)	5.892	59	122293	91.45	ppb		97
37) 1,2-Dichloroethane	5.914	62	241912	8.95	ppb		99
38) Benzene	5.873	78	1054604	9.92	ppb	#	91
39) tert-Amyl methyl ether...	5.953	73	638954	9.04	ppb	#	92
41) Trichloroethylene	6.496	95	288109	9.10	ppb		95
42) Methyl Cyclohexane	6.652	83	481605	8.88	ppb		86
43) Methyl Methacrylate	6.819	69	116857	8.48	ppb		94
44) Dibromomethane	6.860	93	130785	8.75	ppb		95
45) Bromodichloromethane	7.008	83	325890	8.78	ppb		97
46) 1,2-Dichloropropane	6.730	63	238865	8.98	ppb		98
47) 1,4-Dioxane	6.877	88	22973	202.85	ppb		100
48) 2-Chloroethyl vinyl ether	7.759	63	77767	8.02	ppb	#	87
49) cis-1,3-Dichloropropene	7.439	75	390541	8.66	ppb		89
50) 4-Methyl-2-Pentanone	7.578	43	112208	8.94	ppb		87
52) Toluene	7.759	91	1198336	8.97	ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601451.D
Acq On : 27 Sep 2017 11:33 pm
InstName : MSVOA6
Operator : AS
Sample : BI71306-MSD1
Misc : QBQV6092717A 17I0914-03 8260 TCL/SOM E
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 29 12:56:29 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 13:44:47 2017
Response via : Initial Calibration

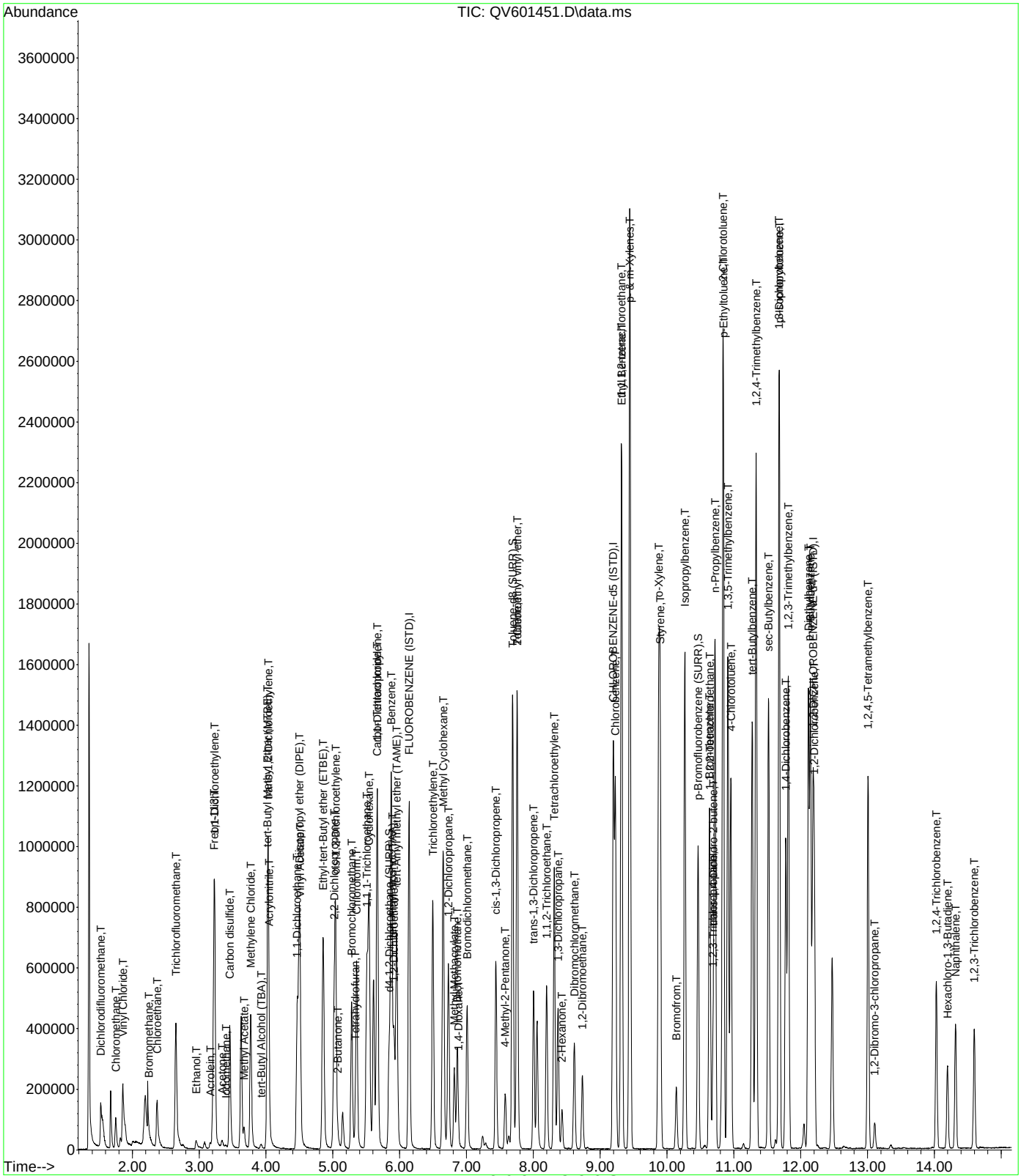
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) trans-1,3-Dichloropropene	8.004	75	313074	8.26	ppb		98
54) 1,1,2-Trichloroethane	8.196	97	184989	8.66	ppb		90
55) 1,3-Dichloropropane	8.368	76	317081	8.95	ppb	#	83
56) Tetrachloroethylene	8.313	166	262470	8.93	ppb	#	70
57) 2-Hexanone	8.427	43	75554	8.37	ppb	#	88
58) Dibromochloromethane	8.613	129	191203	8.42	ppb		97
59) 1,2-Dibromoethane	8.733	107	168493	8.69	ppb		92
60) Chlorobenzene	9.228	112	696087	8.58	ppb		96
61) 1,1,1,2-tetrachloroethane	9.317	131	220500	8.12	ppb		88
62) Ethyl Benzene	9.320	91	1312115	9.29	ppb		98
63) p- & m-Xylenes	9.442	91	1953655	18.90	ppb		95
64) o-Xylene	9.876	91	953417	8.50	ppb		99
65) Styrene	9.899	104	739338	9.17	ppb	#	77
66) Bromofrom	10.138	173	93331	8.12	ppb		98
68) p-Ethyltoluene	10.845	105	1217422	8.96	ppb	#	91
69) Isopropylbenzene	10.266	105	1241655	8.87	ppb		94
71) 1,1,2,2-Tetrachloroethane	10.641	83	194822	8.51	ppb	#	97
72) Bromobenzene	10.633	77	413335	8.85	ppb		87
73) trans-1,4-Dichloro-2-b...	10.694	75	201003	8.07	ppb		90
74) 1,2,3-Trichloropropane	10.689	110	57210	8.75	ppb	#	73
75) n-Propylbenzene	10.719	91	1452114	8.91	ppb		97
76) 2-Chlorotoluene	10.839	91	932774	8.48	ppb		100
77) 4-Chlorotoluene	10.956	91	834810	8.50	ppb		99
78) 1,3,5-Trimethylbenzene	10.911	105	1017102	9.04	ppb		99
79) tert-Butylbenzene	11.273	119	795245	8.51	ppb		97
80) 1,2,4-Trimethylbenzene	11.334	105	1024659	8.88	ppb	#	84
81) sec-Butylbenzene	11.518	105	1194606	8.49	ppb		98
82) 1,3-Dichlorobenzene	11.676	146	436054	8.04	ppb		96
83) p-Isopropyltoluene	11.679	119	1024797	8.77	ppb		99
84) 1,4-Dichlorobenzene	11.777	146	429432	8.21	ppb		95
85) 1,2,3-Trimethylbenzene	11.816	105	1019026	8.50	ppb		95
86) p-Diethylbenzene	12.116	105	552097	8.77	ppb	#	37
87) 1,2-Dichlorobenzene	12.202	146	380456	8.20	ppb	#	86
88) n-Butylbenzene	12.147	91	1118723	8.69	ppb		89
89) 1,2-Dibromo-3-chloropr...	13.107	75	13928	4.57	ppb	#	66
90) 1,2,4,5-Tetramethylben...	13.006	119	737106	8.26	ppb		98
91) 1,2,4-Trichlorobenzene	14.030	180	169927	8.22	ppb		97
92) Hexachloro-1,3-Butadiene	14.200	225	51572	6.74	ppb		95
93) Naphthalene	14.317	128	350122	5.19	ppb		97
94) 1,2,3-Trichlorobenzene	14.595	180	123429	8.44	ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\092717A\
Data File : QV601451.D
Acq On : 27 Sep 2017 11:33 pm
InstName : MSVOA6
Operator : AS
Sample : BI71306-MSD1
Misc : QBQV6092717A 17I0914-03 8260 TCL/SOM E
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 29 12:56:29 2017
Quant Method : C:\msdchem\2\METHODS\VQ6LO006.M
Quant Title : Volatile Organics EPA 8260C-Waters
QLast Update : Tue Sep 12 13:44:47 2017
Response via : Initial Calibration



PREPARATION BENCH SHEET-AQUEOUS: BI71306

Prepared: **09/27/2017 10:00**

York Analytical Laboratories, Inc.

Printed: 10/2/2017 10:18:12AM

Matrix: Water **Preparation EPA 5030B** **Surrogate used: Y17H086** **1** **ul**

Lab Number	Analysis	Initial (mL)	Final (mL)	Spike 1 ID	ul Spike 1	Spike 2 ID	ul Spike 2	Source ID	pH Data			Decanted Y/N	Comments
									Initial	Acid	Basic		
17I0860-01 B	Volatile Organics, (	25	25							<2	NA		waters
17I0860-02 A	Volatile Organics, (	25	25							<2	NA		waters
17I0860-03 B	Volatile Organics, (	25	25							<2	NA		waters
17I0860-04 A	Volatile Organics, (	25	25							<2	NA		waters
17I0860-05 B	Volatile Organics, (	25	25							<2	NA		waters
17I0860-06 A	Volatile Organics, (	25	25							<2	NA		waters
17I0860-07 A	Volatile Organics, (	25	25							<2	NA		waters
17I0860-08 A	Volatile Organics, (	25	25							<2	NA		waters
17I0860-09 A	Volatile Organics, (	25	25							<2	NA		waters
17I0914-01 A	Volatile Organics, ł	25	25							<2	NA		
17I0914-02 A	Volatile Organics, ł	25	25							<2	NA		
17I0914-03 A	Volatile Organics, ł	25	25							<2	NA		
17I0914-03 A	Volatile Organics, (	25	25							<2	NA		Added for BatchQC in: BI71306
17I0914-04 A	Volatile Organics, ł	25	25							<2	NA		
BI71306-BLK1	QC	25	25								NA		
BI71306-BS1	QC	25	25	Y17I093	5						NA		
BI71306-BSD1	QC	25	25	Y17I093	5						NA		
BI71306-MS1	QC	25	25	Y17I093	5			17I0914-03		<2	NA		
BI71306-MSD1	QC	25	25	Y17I093	5			17I0914-03		<2	NA		

Reagents:

ID Number	Description	Lot Number	ID Number	Description	Lot Number

Preparation Performed by **AS** **Date:** **09/27/2017 10:00**

PREPARATION BENCH SHEET-AQUEOUS: BI71307

Prepared: **09/27/2017 17:00**

York Analytical Laboratories, Inc.

Printed: 10/2/2017 10:19:51AM

Matrix: Water **Preparation EPA 5030B** **Surrogate used: Y17H086** **1** **ul**

Lab Number	Analysis	Initial (mL)	Final (mL)	Spike 1 ID	ul Spike 1	Spike 2 ID	ul Spike 2	Source ID	pH Data			Decanted Y/N	Comments
									Initial	Acid	Basic		
17I0900-01 D	Volatile Organics, (	25	25							<2	NA		
17I0900-02 D	Volatile Organics, (	25	25							<2	NA		
17I0900-03 D	Volatile Organics, (	25	25							<2	NA		
17I0900-04 B	Volatile Organics, (	25	25							<2	NA		
17I0900-05 D	Volatile Organics, (	25	25							<2	NA		
17I0900-06 C	Volatile Organics, (	25	25							<2	NA		
17I0900-07 C	Volatile Organics, (	25	25							<2	NA		
17I0900-08 D	Volatile Organics, (	25	25							<2	NA		
17I0900-09 D	Volatile Organics, (	25	25							<2	NA		
17I0900-10 A	Volatile Organics, (	25	25							<2	NA		
17I0900-11 C	Volatile Organics, (	25	25							<2	NA		
17I0900-12 B	Volatile Organics, (	25	25							<2	NA		
17I0900-13 B	Volatile Organics, (	25	25							<2	NA		
17I0900-14 B	Volatile Organics, (	25	25							<2	NA		
17I0914-05 A	Volatile Organics, ł	25	25							<2	NA		
17I0914-06 A	Volatile Organics, ł	25	25							<2	NA		
17I0914-07 A	Volatile Organics, ł	25	25							<2	NA		
17I0914-08 A	Volatile Organics, ł	25	25							<2	NA		
BI71307-BLK1	QC	25	25								NA		
BI71307-BS1	QC	25	25	Y17I093	5						NA		
BI71307-BSD1	QC	25	25	Y17I093	5						NA		

Reagents:

ID Number	Description	Lot Number	ID Number	Description	Lot Number

Preparation Performed by AS **Date:** 09/27/2017 17:00

Sequence Name: C:\msdchem\2\sequence\092717A.s
Comment: QBQV6092717A
Operator: AS
Data Path: C:\MSDCHEM\2\DATA\092717A\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line		Sample Name/Misc Info		
1)	Sample	1	QV601427 VQ6ACQ1	BLK
2)	Sample	2	QV601428 VQ6ACQ1	SEQ-TUN1
3)	Sample	3	QV601429 VQ6ACQ1	STND
4)	Sample	4	QV601430 VQ6ACQ1	SEQ-CCV1
5)	Sample	5	QV601431 VQ6ACQ1	BI71306-BS1
6)	Sample	6	QV601432 VQ6ACQ1	BI71306-BSD1
7)	Sample	7	QV601433 VQ6ACQ1	BLK
8)	Sample	8	QV601434 VQ6ACQ1	BI71306-BLK1
9)	Sample	9	QV601435 VQ6ACQ1	BLK FROM FLASK
10)	Sample	10	QV601436 VQ6ACQ1	MISINJECT
11)	Sample	11	QV601437 VQ6ACQ1	17I0860-01
12)	Sample	12	QV601438 VQ6ACQ1	17I0860-02
13)	Sample	13	QV601439 VQ6ACQ1	17I0860-03
14)	Sample	14	QV601440 VQ6ACQ1	17I0860-04
15)	Sample	15	QV601441 VQ6ACQ1	17I0860-05
16)	Sample	16	QV601442 VQ6ACQ1	17I0860-06
17)	Sample	17	QV601443 VQ6ACQ1	17I0860-07
18)	Sample	18	QV601444 VQ6ACQ1	17I0860-08
19)	Sample	19	QV601445 VQ6ACQ1	17I0860-09
20)	Sample	20	QV601446 VQ6ACQ1	17I0914-01
21)	Sample	21	QV601447 VQ6ACQ1	17I0914-02
22)	Sample	22	QV601448 VQ6ACQ1	17I0914-03
23)	Sample	23	QV601449 VQ6ACQ1	17I0914-04
24)	Sample	24	QV601450 VQ6ACQ1	BI71306-MS1
25)	Sample	25	QV601451 VQ6ACQ1	BI71306-MSD1
26)	Sample	26	QV601452 VQ6ACQ1	BLK
27)	Sample	27	QV601453 VQ6ACQ1	SEQ-TUN1
28)	Sample	28	QV601454 VQ6ACQ1	BLK
29)	Sample	29	QV601455 VQ6ACQ1	BLK
30)	Sample	30	QV601456 VQ6ACQ1	STND
31)	Sample	31	QV601457 VQ6ACQ1	SEQ-CCV1
32)	Sample	32	QV601458 VQ6ACQ1	BI71307-BS1
33)	Sample	33	QV601459 VQ6ACQ1	BI71307-BSD1
34)	Sample	34	QV601460 VQ6ACQ1	BLK
35)	Sample	35	QV601461 VQ6ACQ1	BI71307-BLK1
36)	Sample	36	QV601462 VQ6ACQ1	17I0914-08
37)	Sample	37	QV601463 VQ6ACQ1	17I0900-14
38)	Sample	38	QV601464 VQ6ACQ1	17I0914-05
39)	Sample	39	QV601465 VQ6ACQ1	17I0914-06
40)	Sample	40	QV601466 VQ6ACQ1	17I0914-07
41)	Sample	41	QV601467 VQ6ACQ1	17I0900-01
42)	Sample	42	QV601468 VQ6ACQ1	17I0900-02
43)	Sample	43	QV601469 VQ6ACQ1	17I0900-03

Sequence Name: C:\msdchem\2\sequence\092717A.s

	Line	Type	Vial	DataFile	Method	Sample Name
44)		Sample	44	QV601470	VQ6ACQ1	17I0900-05
45)		Sample	45	QV601471	VQ6ACQ1	17I0900-06
46)		Sample	46	QV601472	VQ6ACQ1	17I0900-08
47)		Sample	47	QV601473	VQ6ACQ1	17I0900-09
48)		Sample	48	QV601474	VQ6ACQ1	17I0900-11
49)		Sample	49	QV601475	VQ6ACQ1	17I0900-12
50)		Sample	50	QV601476	VQ6ACQ1	MISINJECT
51)		Sample	51	QV601477	VQ6ACQ1	17I0900-04
52)		Sample	52	QV601478	VQ6ACQ1	17I0900-07
53)		Sample	53	QV601479	VQ6ACQ1	17I0900-10
54)		Sample	54	QV601480	VQ6ACQ1	17I0900-13
55)		Sample	55	QV601481	VQ6ACQ1	BLK

Sequence Name: C:\msdchem\2\sequence\092717A.s
Comment: QBQV6092717A
Operator: AS
Data Path: C:\MSDCHEM\2\DATA\092717A\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line		Sample Name/Misc Info		
1)	Sample 1	QV601427	VQ6ACQ1	BLK
2)	Sample 2	QV601428	VQ6ACQ1	SEQ-TUN1
3)	Sample 3	QV601429	VQ6ACQ1	STND
4)	Sample 4	QV601430	VQ6ACQ1	SEQ-CCV1
5)	Sample 5	QV601431	VQ6ACQ1	BI71306-BS1
6)	Sample 6	QV601432	VQ6ACQ1	BI71306-BSD1
7)	Sample 7	QV601433	VQ6ACQ1	BLK
8)	Sample 8	QV601434	VQ6ACQ1	BI71306-BLK1
9)	Sample 9	QV601435	VQ6ACQ1	BLK FROM FLASK
10)	Sample 10	QV601436	VQ6ACQ1	MISINJECT
11)	Sample 11	QV601437	VQ6ACQ1	17I0860-01
12)	Sample 12	QV601438	VQ6ACQ1	17I0860-02
13)	Sample 13	QV601439	VQ6ACQ1	17I0860-03
14)	Sample 14	QV601440	VQ6ACQ1	17I0860-04
15)	Sample 15	QV601441	VQ6ACQ1	17I0860-05
16)	Sample 16	QV601442	VQ6ACQ1	17I0860-06
17)	Sample 17	QV601443	VQ6ACQ1	17I0860-07
18)	Sample 18	QV601444	VQ6ACQ1	17I0860-08
19)	Sample 19	QV601445	VQ6ACQ1	17I0860-09
20)	Sample 20	QV601446	VQ6ACQ1	17I0914-01
21)	Sample 21	QV601447	VQ6ACQ1	17I0914-02
22)	Sample 22	QV601448	VQ6ACQ1	17I0914-03
23)	Sample 23	QV601449	VQ6ACQ1	17I0914-04
24)	Sample 24	QV601450	VQ6ACQ1	BI71306-MS1
25)	Sample 25	QV601451	VQ6ACQ1	BI71306-MSD1
26)	Sample 26	QV601452	VQ6ACQ1	BLK
27)	Sample 27	QV601453	VQ6ACQ1	SEQ-TUN1
28)	Sample 28	QV601454	VQ6ACQ1	BLK
29)	Sample 29	QV601455	VQ6ACQ1	BLK
30)	Sample 30	QV601456	VQ6ACQ1	STND
31)	Sample 31	QV601457	VQ6ACQ1	SEQ-CCV1
32)	Sample 32	QV601458	VQ6ACQ1	BI71307-BS1
33)	Sample 33	QV601459	VQ6ACQ1	BI71307-BSD1
34)	Sample 34	QV601460	VQ6ACQ1	BLK
35)	Sample 35	QV601461	VQ6ACQ1	BI71307-BLK1
36)	Sample 36	QV601462	VQ6ACQ1	17I0914-08
37)	Sample 37	QV601463	VQ6ACQ1	17I0900-14
38)	Sample 38	QV601464	VQ6ACQ1	17I0914-05
39)	Sample 39	QV601465	VQ6ACQ1	17I0914-06
40)	Sample 40	QV601466	VQ6ACQ1	17I0914-07
41)	Sample 41	QV601467	VQ6ACQ1	17I0900-01
42)	Sample 42	QV601468	VQ6ACQ1	17I0900-02
43)	Sample 43	QV601469	VQ6ACQ1	17I0900-03

Sequence Name: C:\msdchem\2\sequence\092717A.s

	Line	Type	Vial	DataFile	Method	Sample Name
44)		Sample	44	QV601470	VQ6ACQ1	17I0900-05
45)		Sample	45	QV601471	VQ6ACQ1	17I0900-06
46)		Sample	46	QV601472	VQ6ACQ1	17I0900-08
47)		Sample	47	QV601473	VQ6ACQ1	17I0900-09
48)		Sample	48	QV601474	VQ6ACQ1	17I0900-11
49)		Sample	49	QV601475	VQ6ACQ1	17I0900-12
50)		Sample	50	QV601476	VQ6ACQ1	MISINJECT
51)		Sample	51	QV601477	VQ6ACQ1	17I0900-04
52)		Sample	52	QV601478	VQ6ACQ1	17I0900-07
53)		Sample	53	QV601479	VQ6ACQ1	17I0900-10
54)		Sample	54	QV601480	VQ6ACQ1	17I0900-13
55)		Sample	55	QV601481	VQ6ACQ1	BLK

DATA USABILITY SUMMARY REPORT

DATA VALIDATION REPORT

FOR

KATONAH Task 0500

Water Analyses
SDG No. 1710914
Sampling Date: September 22, 2017

Submitted to:

Chazen Environmental Services
21 Fox Road
Poughkeepsie, NY 12601
(845) 494-3890

Submitted by:

Environmental Data Validation Inc.
Environmental Occupational & Public Health Consultants Inc.
1326 Orangewood Avenue
Pittsburgh, PA 15216
(412) 341-5281

November 22, 2017

Site:	Katonah Task 0500
Client:	Chazen Environmental Services
Analytical Laboratory:	York Analytical Laboratories
SDG Numbers:	1710914
Sampling Date:	September 22, 2017
Analyses:	Volatile Organic Compounds
Analytical Method:	SW8260C

Summary of Data Validation:

The adherence of laboratory analytical performance to the above method was evaluated during the data validation process. The National Functional Guidelines for Superfund Organic Methods Data Review (January 2017) was used as the guideline.

The sample qualifiers applied by the data validator are tabulated in Section 12.0. The detailed discussions can be found in the report.

Table of Contents

List of Attachments

1.0 Sample Identifications

The following table summarizes sample identifications, matrix of each sample and analyses present in the data package for each sample.

Laboratory ID	Client Sample ID	Matrix	VOA 8260B
1710914-01	KWF-MW2S	Water	X
1710914-02	KWF-MW11R	Water	X
1710914-03	KWF-MW1S	Water	X
1710914-04	KWF-MW4R	Water	X
1710914-05	KWF-PW	Water	X
1710914-06	KWF-FD	Water	X
1710914-07	KWF-EB	Water	X
1710914-08	KWF-TB	Water	X

Total Number of Samples

Number of Field Samples Analyzed:	5
Number of QC Samples	3
Total Number of Analyses:	8

2.0 Completeness Checklist

The following table identifies the summary form information and raw data found in the data package. Form numbers shown in parentheses refer to the current U.S. EPA CLP SOW equivalent reporting of results in an alternate summary format that has been determined to be acceptable.

Completeness Checklist

X	Case Narrative
X	Chain of Custody Records/Traffic Reports/Tracking Records
X	Preservation Information
X	Sample Cross Reference with Unique Identifiers
X	Sample Results Summary Form (Form 1/Form 1-TIC)
X	CLP Flagging used on Results Summary
X	SMC/Surrogate Results Summary (Form 2)
X	Matrix Spike/Matrix Spike Duplicate Results Summary (Form 3)
X	Laboratory Control Sample (LCS)/ Blank Spike Results Summary (Form 3)
NR	Control Charts
X	Method/Preparation Blank Results Summary (Form 4)
X	Initial Calibration Summary (Forms 6)
X	Continuing Calibration Summary (Form 7)
X	Analytical Sequence (Form 8)
X	Internal Standard Area Summary (Form X11)
X	Raw Data (incl. IS, Surr/SMC, RT, quant. Reports, etc.)
X	Samples
X	Initial Calibration
NR	Clean-ups
X	Continuing Calibration
O	Instrument Blanks
X	Preparation Blanks/Method Blanks
O	Other Blanks
X	LCS/Blank Spike
X	Matrix Spikes/Matrix Spike Duplicates
NR	Matrix Duplicates/Replicates
X	Field Blanks
X	Field Duplicates
X	Extraction Log Benchsheets
X	Instrument Run Logs
X	Sample Descriptions
X	Legible Pages
X	Pages in Package Numbered and in Sequence
NR	Electronic Data Deliverable (EDD)

X: Included in original Data Package NR: Not Required RS: Provided as a Resubmission
O: Not Included and/or Not Available X/RS: Incomplete in original data package, completed as a resubmission

3.0 Holding Time

Holding times were within acceptable criterion for all samples.

4.0 Chain of Custody Record

The Chain of Custody Record was present.

4. 1 Preservation

Samples were received with proper preservation.

5.0 Calibration Quality Control

5. 1 Initial Calibration (ICAL)

The calibration was acceptable.

5.2 Continuing Calibration (CCAL)

Several compounds were qualified as estimated "UJ" due to calibration deficiency.

6.0 Blanks Quality Control

No method blank contamination was present.

7.0 Surrogate/Internal Standard Recoveries

Recoveries were acceptable.

8.0 Accuracy

8.1 Laboratory Control Samples (LCS)/Blank Spikes

Several compounds were qualified as qualified as unusable (R) due to LCS and/or LCDs deficiency.

8.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

No data were qualified due to MS/MSD recovery.

9.0 Field QC

9.1 Equipment Blank/ Rinse Blank/Trip

No blank contamination was present.

9.2 Field Duplicate

Results were acceptable.

10.0 Target Compound Identification

All compounds were correctly identified.

Sample 1710914-01 carbon disulfide result, 1710914-02 chloroform result, and 1710914-03 trichloroethylene result were reported above the method detection limit (MDL), but less than the limit of quantitation (LOQ). The sample results were reported with a "J" flag.

11.0 Additional Comments

The deficiencies noted in the case narrative that affect data usability have been discussed in applicable sections. Data that have no impact on data usability are not discussed.

12.0 Data Qualifier Table

Sample	Compound	Qualifier	Reference Section
1710914-01, 1710914-02, 1710914-03, 1710914-04, 1710914-05, 1710914-06	Chloromethane	UJ	5.2
1710914-05, 1710914-06	Acetone, Bromomethane	UJ	5.2
1710914-01, 1710914-02, 1710914-03, 1710914-04	Bromomethane	R	8.1
1710914-05, 1710914-06	1,3 Dichlorobenzene, Chlorobenzene	R	8.1
1710914-01	Carbon disulfide	J	10.0
1710914-02	Chloroform	J	10.0
1710914-03	Trichloroethylene	J	10.0

13.0 Data Usability

Data qualified with the "UJ" qualifier are to be used cautiously as they are estimated data with some quality control issues. Data qualified with the "J" qualifier are to be used cautiously as they are estimated data with some quality control issues. Data qualified with the "R" qualifier

are not usable due to severe quality control issues. Data qualified with the “U” qualifier are usable as there are no quality control issues.

ATTACHMENT A

VALIDATED AND QUALIFIED DATA SHEETS (FORM 1s)

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KWF-MW2S

Laboratory: York Analytical Laboratories, Inc. SDG: 17I0914

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00-Katonah Task 0500

Matrix: Water Laboratory ID: 17I0914-01 File ID: QV601446.D

Sampled: 09/22/17 10:55 Prepared: 09/27/17 10:00 Analyzed: 09/27/17 21:21

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BI71306 Sequence: Y7I2835 Calibration: YI70003 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
71-55-6	1,1,1-Trichloroethane	1	0.50	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U	
79-00-5	1,1,2-Trichloroethane	1	0.50	U	
75-34-3	1,1-Dichloroethane	1	0.50	U	
75-35-4	1,1-Dichloroethylene	1	0.50	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U	
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U	
106-93-4	1,2-Dibromoethane	1	0.50	U	
95-50-1	1,2-Dichlorobenzene	1	0.50	U	
107-06-2	1,2-Dichloroethane	1	0.50	U	
78-87-5	1,2-Dichloropropane	1	0.50	U	
541-73-1	1,3-Dichlorobenzene	1	0.50	U	
106-46-7	1,4-Dichlorobenzene	1	0.50	U	
78-93-3	2-Butanone	1	0.50	U	
591-78-6	2-Hexanone	1	0.50	U	
108-10-1	4-Methyl-2-pentanone	1	0.50	U	
67-64-1	Acetone	1	2.0	U	
71-43-2	Benzene	1	0.50	U	
74-97-5	Bromochloromethane	1	0.50	U	
75-27-4	Bromodichloromethane	1	0.50	U	
75-25-2	Bromoform	1	0.50	U	
74-83-9	Bromomethane	1	0.50	U	R
75-15-0	Carbon disulfide	1	0.22	J	J
56-23-5	Carbon tetrachloride	1	0.50	U	
108-90-7	Chlorobenzene	1	0.50	U	
75-00-3	Chloroethane	1	0.50	U	
67-66-3	Chloroform	1	0.50	U	
74-87-3	Chloromethane	1	0.50	U	UJ
156-59-2	cis-1,2-Dichloroethylene	1	0.50	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U	
110-82-7	Cyclohexane	1	0.50	U	
124-48-1	Dibromochloromethane	1	0.50	U	
75-71-8	Dichlorodifluoromethane	1	0.50	U	
100-41-4	Ethyl Benzene	1	0.50	U	
98-82-8	Isopropylbenzene	1	0.50	U	
79-20-9	Methyl acetate	1	0.50	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U	
108-87-2	Methylcyclohexane	1	0.50	U	

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ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KWF-MW2S

Laboratory: York Analytical Laboratories, Inc. SDG: 17I0914

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00-Katonah Task 0500

Matrix: Water Laboratory ID: 17I0914-01 File ID: QV601446.D

Sampled: 09/22/17 10:55 Prepared: 09/27/17 10:00 Analyzed: 09/27/17 21:21

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BI71306 Sequence: Y7I2835 Calibration: YI70003 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-09-2	Methylene chloride	1	2.0	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
100-42-5	Styrene	1	0.50	U
127-18-4	Tetrachloroethylene	1	0.50	U
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
79-01-6	Trichloroethylene	1	0.50	U
75-69-4	Trichlorofluoromethane	1	0.50	U
75-01-4	Vinyl Chloride	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4	10.0	10.4	104	69 - 130	
Toluene-d8	10.0	9.28	92.8	81 - 117	
p-Bromofluorobenzene	10.0	10.7	107	79 - 122	

* Values outside of QC limits

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ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KWF-MW11R

Laboratory: York Analytical Laboratories, Inc. SDG: 17I0914

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00-Katonah Task 0500

Matrix: Water Laboratory ID: 17I0914-02 File ID: QV601447.D

Sampled: 09/22/17 12:00 Prepared: 09/27/17 10:00 Analyzed: 09/27/17 21:47

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BI71306 Sequence: Y7I2835 Calibration: YI70003 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
71-55-6	1,1,1-Trichloroethane	1	0.50	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U	
79-00-5	1,1,2-Trichloroethane	1	0.50	U	
75-34-3	1,1-Dichloroethane	1	0.50	U	
75-35-4	1,1-Dichloroethylene	1	0.50	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U	
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U	
106-93-4	1,2-Dibromoethane	1	0.50	U	
95-50-1	1,2-Dichlorobenzene	1	0.50	U	
107-06-2	1,2-Dichloroethane	1	0.50	U	
78-87-5	1,2-Dichloropropane	1	0.50	U	
541-73-1	1,3-Dichlorobenzene	1	0.50	U	
106-46-7	1,4-Dichlorobenzene	1	0.50	U	
78-93-3	2-Butanone	1	0.50	U	
591-78-6	2-Hexanone	1	0.50	U	
108-10-1	4-Methyl-2-pentanone	1	0.50	U	
67-64-1	Acetone	1	2.0	U	
71-43-2	Benzene	1	0.50	U	
74-97-5	Bromochloromethane	1	0.50	U	
75-27-4	Bromodichloromethane	1	0.50	U	
75-25-2	Bromoform	1	0.50	U	
74-83-9	Bromomethane	1	0.50	U	R
75-15-0	Carbon disulfide	1	0.50	U	
56-23-5	Carbon tetrachloride	1	0.50	U	
108-90-7	Chlorobenzene	1	0.50	U	
75-00-3	Chloroethane	1	0.50	U	
67-66-3	Chloroform	1	0.38	J	J
74-87-3	Chloromethane	1	0.50	U	UJ
156-59-2	cis-1,2-Dichloroethylene	1	0.50	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U	
110-82-7	Cyclohexane	1	0.50	U	
124-48-1	Dibromochloromethane	1	0.50	U	
75-71-8	Dichlorodifluoromethane	1	0.50	U	
100-41-4	Ethyl Benzene	1	0.50	U	
98-82-8	Isopropylbenzene	1	0.50	U	
79-20-9	Methyl acetate	1	0.50	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U	
108-87-2	Methylcyclohexane	1	0.50	U	

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ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KWF-MW11R

Laboratory: York Analytical Laboratories, Inc. SDG: 17I0914

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00-Katonah Task 0500

Matrix: Water Laboratory ID: 17I0914-02 File ID: QV601447.D

Sampled: 09/22/17 12:00 Prepared: 09/27/17 10:00 Analyzed: 09/27/17 21:47

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BI71306 Sequence: Y7I2835 Calibration: YI70003 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-09-2	Methylene chloride	1	2.0	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
100-42-5	Styrene	1	0.50	U
127-18-4	Tetrachloroethylene	1	0.53	
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
79-01-6	Trichloroethylene	1	0.50	U
75-69-4	Trichlorofluoromethane	1	0.50	U
75-01-4	Vinyl Chloride	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4	10.0	9.99	99.9	69 - 130	
Toluene-d8	10.0	9.36	93.6	81 - 117	
p-Bromofluorobenzene	10.0	11.0	110	79 - 122	

* Values outside of QC limits

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ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KWF-MW1S

Laboratory: York Analytical Laboratories, Inc. SDG: 17I0914

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00-Katonah Task 0500

Matrix: Water Laboratory ID: 17I0914-03 File ID: QV601448.D

Sampled: 09/22/17 12:55 Prepared: 09/27/17 10:00 Analyzed: 09/27/17 22:14

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BI71306 Sequence: Y7I2835 Calibration: YI70003 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
71-55-6	1,1,1-Trichloroethane	1	0.50	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U	
79-00-5	1,1,2-Trichloroethane	1	0.50	U	
75-34-3	1,1-Dichloroethane	1	0.50	U	
75-35-4	1,1-Dichloroethylene	1	0.50	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U	
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U	
106-93-4	1,2-Dibromoethane	1	0.50	U	
95-50-1	1,2-Dichlorobenzene	1	0.50	U	
107-06-2	1,2-Dichloroethane	1	0.50	U	
78-87-5	1,2-Dichloropropane	1	0.50	U	
541-73-1	1,3-Dichlorobenzene	1	0.50	U	
106-46-7	1,4-Dichlorobenzene	1	0.50	U	
78-93-3	2-Butanone	1	0.50	U	
591-78-6	2-Hexanone	1	0.50	U	
108-10-1	4-Methyl-2-pentanone	1	0.50	U	
67-64-1	Acetone	1	2.0	U	
71-43-2	Benzene	1	0.50	U	
74-97-5	Bromochloromethane	1	0.50	U	
75-27-4	Bromodichloromethane	1	0.50	U	
75-25-2	Bromoform	1	0.50	U	
74-83-9	Bromomethane	1	0.50	U	R
75-15-0	Carbon disulfide	1	0.50	U	
56-23-5	Carbon tetrachloride	1	0.50	U	
108-90-7	Chlorobenzene	1	0.50	U	
75-00-3	Chloroethane	1	0.50	U	
67-66-3	Chloroform	1	0.50	U	
74-87-3	Chloromethane	1	0.50	U	UJ
156-59-2	cis-1,2-Dichloroethylene	1	0.50	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U	
110-82-7	Cyclohexane	1	0.50	U	
124-48-1	Dibromochloromethane	1	0.50	U	
75-71-8	Dichlorodifluoromethane	1	0.50	U	
100-41-4	Ethyl Benzene	1	0.50	U	
98-82-8	Isopropylbenzene	1	0.50	U	
79-20-9	Methyl acetate	1	0.50	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U	
108-87-2	Methylcyclohexane	1	0.50	U	

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EPA 8260C

KWF-MW1S

Laboratory: York Analytical Laboratories, Inc. SDG: 17I0914

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00-Katonah Task 0500

Matrix: Water Laboratory ID: 17I0914-03 File ID: QV601448.D

Sampled: 09/22/17 12:55 Prepared: 09/27/17 10:00 Analyzed: 09/27/17 22:14

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BI71306 Sequence: Y7I2835 Calibration: YI70003 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-09-2	Methylene chloride	1	2.0	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
100-42-5	Styrene	1	0.50	U
127-18-4	Tetrachloroethylene	1	0.50	
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
79-01-6	Trichloroethylene	1	0.46	J
75-69-4	Trichlorofluoromethane	1	0.50	U
75-01-4	Vinyl Chloride	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

J

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4	10.0	10.3	103	69 - 130	
Toluene-d8	10.0	9.37	93.7	81 - 117	
p-Bromofluorobenzene	10.0	10.6	106	79 - 122	

* Values outside of QC limits

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ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KWF-MW4R

Laboratory: York Analytical Laboratories, Inc. SDG: 17I0914

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00-Katonah Task 0500

Matrix: Water Laboratory ID: 17I0914-04 File ID: QV601449.D

Sampled: 09/22/17 14:20 Prepared: 09/27/17 10:00 Analyzed: 09/27/17 22:40

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BI71306 Sequence: Y7I2835 Calibration: YI70003 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
71-55-6	1,1,1-Trichloroethane	1	0.50	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U	
79-00-5	1,1,2-Trichloroethane	1	0.50	U	
75-34-3	1,1-Dichloroethane	1	0.50	U	
75-35-4	1,1-Dichloroethylene	1	0.50	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U	
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U	
106-93-4	1,2-Dibromoethane	1	0.50	U	
95-50-1	1,2-Dichlorobenzene	1	0.50	U	
107-06-2	1,2-Dichloroethane	1	0.50	U	
78-87-5	1,2-Dichloropropane	1	0.50	U	
541-73-1	1,3-Dichlorobenzene	1	0.50	U	
106-46-7	1,4-Dichlorobenzene	1	0.50	U	
78-93-3	2-Butanone	1	0.50	U	
591-78-6	2-Hexanone	1	0.50	U	
108-10-1	4-Methyl-2-pentanone	1	0.50	U	
67-64-1	Acetone	1	2.0	U	
71-43-2	Benzene	1	0.50	U	
74-97-5	Bromochloromethane	1	0.50	U	
75-27-4	Bromodichloromethane	1	0.50	U	
75-25-2	Bromoform	1	0.50	U	
74-83-9	Bromomethane	1	0.50	U	R
75-15-0	Carbon disulfide	1	0.50	U	
56-23-5	Carbon tetrachloride	1	0.50	U	
108-90-7	Chlorobenzene	1	0.50	U	
75-00-3	Chloroethane	1	0.50	U	
67-66-3	Chloroform	1	0.50	U	
74-87-3	Chloromethane	1	0.50	U	UJ
156-59-2	cis-1,2-Dichloroethylene	1	0.50	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U	
110-82-7	Cyclohexane	1	0.50	U	
124-48-1	Dibromochloromethane	1	0.50	U	
75-71-8	Dichlorodifluoromethane	1	0.50	U	
100-41-4	Ethyl Benzene	1	0.50	U	
98-82-8	Isopropylbenzene	1	0.50	U	
79-20-9	Methyl acetate	1	0.50	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U	
108-87-2	Methylcyclohexane	1	0.50	U	

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ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KWF-MW4R

Laboratory: York Analytical Laboratories, Inc. SDG: 17I0914

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00-Katonah Task 0500

Matrix: Water Laboratory ID: 17I0914-04 File ID: QV601449.D

Sampled: 09/22/17 14:20 Prepared: 09/27/17 10:00 Analyzed: 09/27/17 22:40

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BI71306 Sequence: Y7I2835 Calibration: YI70003 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-09-2	Methylene chloride	1	2.0	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
100-42-5	Styrene	1	0.50	U
127-18-4	Tetrachloroethylene	1	3.9	
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
79-01-6	Trichloroethylene	1	0.50	U
75-69-4	Trichlorofluoromethane	1	0.50	U
75-01-4	Vinyl Chloride	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4	10.0	10.0	100	69 - 130	
Toluene-d8	10.0	9.32	93.2	81 - 117	
p-Bromofluorobenzene	10.0	10.6	106	79 - 122	

* Values outside of QC limits

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ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KWF-PW

Laboratory: York Analytical Laboratories, Inc. SDG: 17I0914

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00-Katonah Task 0500

Matrix: Water Laboratory ID: 17I0914-05 File ID: QV601464.D

Sampled: 09/22/17 15:00 Prepared: 09/27/17 17:00 Analyzed: 09/28/17 05:17

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BI71307 Sequence: Y7I2927 Calibration: YI70003 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
71-55-6	1,1,1-Trichloroethane	1	0.50	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U	
79-00-5	1,1,2-Trichloroethane	1	0.50	U	
75-34-3	1,1-Dichloroethane	1	0.50	U	
75-35-4	1,1-Dichloroethylene	1	0.50	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U	
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U	
106-93-4	1,2-Dibromoethane	1	0.50	U	
95-50-1	1,2-Dichlorobenzene	1	0.50	U	
107-06-2	1,2-Dichloroethane	1	0.50	U	
78-87-5	1,2-Dichloropropane	1	0.50	U	
541-73-1	1,3-Dichlorobenzene	1	0.50	U	R
106-46-7	1,4-Dichlorobenzene	1	0.50	U	
78-93-3	2-Butanone	1	0.50	U	
591-78-6	2-Hexanone	1	0.50	U	
108-10-1	4-Methyl-2-pentanone	1	0.50	U	
67-64-1	Acetone	1	2.0	U	UJ
71-43-2	Benzene	1	0.50	U	
74-97-5	Bromochloromethane	1	0.50	U	
75-27-4	Bromodichloromethane	1	0.50	U	
75-25-2	Bromoform	1	0.50	U	
74-83-9	Bromomethane	1	0.50	U	UJ
75-15-0	Carbon disulfide	1	0.50	U	
56-23-5	Carbon tetrachloride	1	0.50	U	
108-90-7	Chlorobenzene	1	0.50	U	R
75-00-3	Chloroethane	1	0.50	U	
67-66-3	Chloroform	1	0.50	U	
74-87-3	Chloromethane	1	0.50	U	UJ
156-59-2	cis-1,2-Dichloroethylene	1	0.50	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U	
110-82-7	Cyclohexane	1	0.50	U	
124-48-1	Dibromochloromethane	1	0.50	U	
75-71-8	Dichlorodifluoromethane	1	0.50	U	
100-41-4	Ethyl Benzene	1	0.50	U	
98-82-8	Isopropylbenzene	1	0.50	U	
79-20-9	Methyl acetate	1	0.50	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U	
108-87-2	Methylcyclohexane	1	0.50	U	

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ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KWF-PW

Laboratory: York Analytical Laboratories, Inc. SDG: 17I0914

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00-Katonah Task 0500

Matrix: Water Laboratory ID: 17I0914-05 File ID: QV601464.D

Sampled: 09/22/17 15:00 Prepared: 09/27/17 17:00 Analyzed: 09/28/17 05:17

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BI71307 Sequence: Y7I2927 Calibration: YI70003 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-09-2	Methylene chloride	1	2.0	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
100-42-5	Styrene	1	0.50	U
127-18-4	Tetrachloroethylene	1	2.9	
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
79-01-6	Trichloroethylene	1	0.50	U
75-69-4	Trichlorofluoromethane	1	0.50	U
75-01-4	Vinyl Chloride	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4	10.0	9.90	99.0	69 - 130	
Toluene-d8	10.0	9.37	93.7	81 - 117	
p-Bromofluorobenzene	10.0	10.9	109	79 - 122	

* Values outside of QC limits

DLM 11/22/17

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KWF-FD

Laboratory: York Analytical Laboratories, Inc. SDG: 17I0914

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00-Katonah Task 0500

Matrix: Water Laboratory ID: 17I0914-06 File ID: QV601465.D

Sampled: 09/22/17 15:00 Prepared: 09/27/17 17:00 Analyzed: 09/28/17 05:43

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BI71307 Sequence: Y7I2927 Calibration: YI70003 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
71-55-6	1,1,1-Trichloroethane	1	0.50	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U	
79-00-5	1,1,2-Trichloroethane	1	0.50	U	
75-34-3	1,1-Dichloroethane	1	0.50	U	
75-35-4	1,1-Dichloroethylene	1	0.50	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U	
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U	
106-93-4	1,2-Dibromoethane	1	0.50	U	
95-50-1	1,2-Dichlorobenzene	1	0.50	U	
107-06-2	1,2-Dichloroethane	1	0.50	U	
78-87-5	1,2-Dichloropropane	1	0.50	U	
541-73-1	1,3-Dichlorobenzene	1	0.50	U	R
106-46-7	1,4-Dichlorobenzene	1	0.50	U	
78-93-3	2-Butanone	1	0.50	U	
591-78-6	2-Hexanone	1	0.50	U	
108-10-1	4-Methyl-2-pentanone	1	0.50	U	
67-64-1	Acetone	1	2.0	U	UJ
71-43-2	Benzene	1	0.50	U	
74-97-5	Bromochloromethane	1	0.50	U	
75-27-4	Bromodichloromethane	1	0.50	U	
75-25-2	Bromoform	1	0.50	U	
74-83-9	Bromomethane	1	0.50	U	UJ
75-15-0	Carbon disulfide	1	0.50	U	
56-23-5	Carbon tetrachloride	1	0.50	U	
108-90-7	Chlorobenzene	1	0.50	U	R
75-00-3	Chloroethane	1	0.50	U	
67-66-3	Chloroform	1	0.50	U	
74-87-3	Chloromethane	1	0.50	U	UJ
156-59-2	cis-1,2-Dichloroethylene	1	0.50	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U	
110-82-7	Cyclohexane	1	0.50	U	
124-48-1	Dibromochloromethane	1	0.50	U	
75-71-8	Dichlorodifluoromethane	1	0.50	U	
100-41-4	Ethyl Benzene	1	0.50	U	
98-82-8	Isopropylbenzene	1	0.50	U	
79-20-9	Methyl acetate	1	0.50	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U	
108-87-2	Methylcyclohexane	1	0.50	U	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KWF-FD

Laboratory: York Analytical Laboratories, Inc. SDG: 17I0914

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00-Katonah Task 0500

Matrix: Water Laboratory ID: 17I0914-06 File ID: QV601465.D

Sampled: 09/22/17 15:00 Prepared: 09/27/17 17:00 Analyzed: 09/28/17 05:43

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BI71307 Sequence: Y7I2927 Calibration: YI70003 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-09-2	Methylene chloride	1	2.0	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
100-42-5	Styrene	1	0.50	U
127-18-4	Tetrachloroethylene	1	3.8	
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
79-01-6	Trichloroethylene	1	0.50	U
75-69-4	Trichlorofluoromethane	1	0.50	U
75-01-4	Vinyl Chloride	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4	10.0	10.1	101	69 - 130	
Toluene-d8	10.0	9.35	93.5	81 - 117	
p-Bromofluorobenzene	10.0	10.6	106	79 - 122	

* Values outside of QC limits

DLM 11/22/17

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KWF-EB

Laboratory: York Analytical Laboratories, Inc. SDG: 17I0914

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00-Katonah Task 0500

Matrix: Water Laboratory ID: 17I0914-07 File ID: QV601466.D

Sampled: 09/22/17 14:45 Prepared: 09/27/17 17:00 Analyzed: 09/28/17 06:10

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BI71307 Sequence: Y7I2927 Calibration: YI70003 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
71-55-6	1,1,1-Trichloroethane	1	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.50	U
75-34-3	1,1-Dichloroethane	1	0.50	U
75-35-4	1,1-Dichloroethylene	1	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U
106-93-4	1,2-Dibromoethane	1	0.50	U
95-50-1	1,2-Dichlorobenzene	1	0.50	U
107-06-2	1,2-Dichloroethane	1	0.50	U
78-87-5	1,2-Dichloropropane	1	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.50	U
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	2.0	U
71-43-2	Benzene	1	0.50	U
74-97-5	Bromochloromethane	1	0.50	U
75-27-4	Bromodichloromethane	1	0.50	U
75-25-2	Bromoform	1	0.50	U
74-83-9	Bromomethane	1	0.50	U
75-15-0	Carbon disulfide	1	0.50	U
56-23-5	Carbon tetrachloride	1	0.50	U
108-90-7	Chlorobenzene	1	0.50	U
75-00-3	Chloroethane	1	0.50	U
67-66-3	Chloroform	1	0.50	U
74-87-3	Chloromethane	1	0.50	U
156-59-2	cis-1,2-Dichloroethylene	1	0.50	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U
124-48-1	Dibromochloromethane	1	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KWF-EB

Laboratory: York Analytical Laboratories, Inc. SDG: 17I0914

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00-Katonah Task 0500

Matrix: Water Laboratory ID: 17I0914-07 File ID: QV601466.D

Sampled: 09/22/17 14:45 Prepared: 09/27/17 17:00 Analyzed: 09/28/17 06:10

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BI71307 Sequence: Y7I2927 Calibration: YI70003 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-09-2	Methylene chloride	1	2.0	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
100-42-5	Styrene	1	0.50	U
127-18-4	Tetrachloroethylene	1	0.50	U
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
79-01-6	Trichloroethylene	1	0.50	U
75-69-4	Trichlorofluoromethane	1	0.50	U
75-01-4	Vinyl Chloride	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4	10.0	9.90	99.0	69 - 130	
Toluene-d8	10.0	9.35	93.5	81 - 117	
p-Bromofluorobenzene	10.0	10.4	104	79 - 122	

* Values outside of QC limits

DLM 11/22/17

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KWF-TB

Laboratory: York Analytical Laboratories, Inc. SDG: 17I0914

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00-Katonah Task 0500

Matrix: Water Laboratory ID: 17I0914-08 File ID: QV601462.D

Sampled: 09/22/17 15:00 Prepared: 09/27/17 17:00 Analyzed: 09/28/17 04:24

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BI71307 Sequence: Y7I2927 Calibration: YI70003 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
71-55-6	1,1,1-Trichloroethane	1	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.50	U
75-34-3	1,1-Dichloroethane	1	0.50	U
75-35-4	1,1-Dichloroethylene	1	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U
106-93-4	1,2-Dibromoethane	1	0.50	U
95-50-1	1,2-Dichlorobenzene	1	0.50	U
107-06-2	1,2-Dichloroethane	1	0.50	U
78-87-5	1,2-Dichloropropane	1	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.50	U
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	2.0	U
71-43-2	Benzene	1	0.50	U
74-97-5	Bromochloromethane	1	0.50	U
75-27-4	Bromodichloromethane	1	0.50	U
75-25-2	Bromoform	1	0.50	U
74-83-9	Bromomethane	1	0.50	U
75-15-0	Carbon disulfide	1	0.50	U
56-23-5	Carbon tetrachloride	1	0.50	U
108-90-7	Chlorobenzene	1	0.50	U
75-00-3	Chloroethane	1	0.50	U
67-66-3	Chloroform	1	0.50	U
74-87-3	Chloromethane	1	0.50	U
156-59-2	cis-1,2-Dichloroethylene	1	0.50	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U
124-48-1	Dibromochloromethane	1	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KWF-TB

Laboratory:	York Analytical Laboratories, Inc.			SDG:	17I0914
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41433.00-Katonah Task 0500
Matrix:	Water	Laboratory ID:	17I0914-08	File ID:	QV601462.D
Sampled:	09/22/17 15:00	Prepared:	09/27/17 17:00	Analyzed:	09/28/17 04:24
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BI71307	Sequence:	Y7I2927	Calibration:	YI70003
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-09-2	Methylene chloride	1	2.0	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
100-42-5	Styrene	1	0.50	U
127-18-4	Tetrachloroethylene	1	0.50	U
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
79-01-6	Trichloroethylene	1	0.50	U
75-69-4	Trichlorofluoromethane	1	0.50	U
75-01-4	Vinyl Chloride	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4	10.0	9.84	98.4	69 - 130	
Toluene-d8	10.0	9.38	93.8	81 - 117	
p-Bromofluorobenzene	10.0	10.8	108	79 - 122	

* Values outside of QC limits

DLM 11/22/17

ATTACHMENT B

CASE NARRATIVE AND CHAIN OF CUSTODY

Case Narrative

Client: Chazen Environmental Services (Poughkeepsie)
Client Project ID: 41433.00-Katonah Task 0500
Prepared for: Will Olsen

Introduction

This Case Narrative applies only to the samples submitted to our laboratory on **9/22/2017 5:30:00 PM** as detailed on the chain-of-custody form.

The 8 sample(s) were received intact. Chain-of-custody was maintained from receipt through analysis in the laboratory.

Methodology

All preparation and analyses were conducted according to the appropriate EPA methods detailed in the report.

Sample and Analysis Qualifiers

KWF-EB	Water
KWF-FD	Water
KWF-MW11R	Water
KWF-MW1S	Water
KWF-MW2S	Water
KWF-MW4R	Water
KWF-PW	Water
KWF-TB	Water

QC Sample Non-Conformances

Any QC sample non-conformances (CCV,LCS, DUP, MS) are detailed in the data package and in the attached tables.

No other problems were encountered during analysis.

York Project/SDG no.: 17I0914 Statement

We certify that these data are in compliance with SOP requirements both technically and for completeness for other than the conditions stated above. Release of the data contained in the hard copy report and any electronic deliverables has been authorized by the Laboratory Manager as verified by the signature on this laboratory report.

Approved by: *Ben Gulizia*
Laboratory Director

Date: 11/02/2017

York Analytical Laboratories, Inc.

Formulae Used for Sample Calculations

VOLATILE ORGANICS

1. Volatiles in Air-ppbv

Cx (ppbv) = Compound concentration, ppbv (parts per billion by volume)

$$Cx = \frac{(Ax)(Cis)(DF)}{(Ais)(RRF)}$$

2. Volatiles in Air-ug/m3

Cx (ug/m3)= Compound concentration in ug/m3

$$Cx\ (ug/m3) = \frac{(ppbv \times Molecular\ wt.)}{(24.040)}$$

3. Volatile Organics (water and soil), ug/L or ug/kG

Soils/Waters

$$Cx = \frac{(Ax)(IS)(DF)}{(Ais)(RRF)(V)(\%solids)}$$

Medium Level Soils

$$Cx = \frac{(Ax)(IS)(VT)(1000)(DF)}{(Ais)(RRF)(VA)(V)(\%solids)}$$

4. Semi-Volatiles (waters and soils)

$$Cx = \frac{(Ax)(IS)(VE)(DF)}{(Ais)(RRF)(Volume\ injected,\ uL)(V)(\%solids)}$$

5. Pesticides/PCB (waters and soils), DRO, CTETPH

$$Cx = \frac{(Ax)(VE)(DF)}{(CF)(Volume\ injected,\ uL)(V)(\%solids)}$$

WHERE:

Cx = concentration of analyte as ug/L or ug/kG
Ax = Area of the characteristic ion for the compound to be measured, counts.
Ais = Area of the characteristic ion for the specific internal standard, counts.
IS = Concentration of the internal standard spiking mixture, ng
RRF= Mean relative response factor from the initial calibration.
DF = Dilution factor calculated as described in section 2. If no dilution is performed, DF= 1
V= Volume for liquids in ml, weight for soils/solids in grams.
VA= volume of MeOH aliquot for medium level soils

VE= final volume of concentrated extract
VT= volume of MeOH for volatiles medium level soils
CF= calibration factor for external calibration used in GC pest/pcb
Cis = Concentration of the internal standard spiking mixture, ppbv

Case Narrative Non-Conformance Summary

Laboratory:	York Analytical Laboratories, Inc.	Client:	Chazen Environmental Services (Poughkeepsie)
Project:	41433.00-Katonah Task 0500	Lab Project No:	17I0914
Laboratory Sample ID(s):	17I0914-01 - 17I0914-08	Sampling Date(s):	09/22/2017 - 09/22/2017
Review Date(s):	11/02/2017 - 11/02/2017	Laboratory Reviewer(s):	JD

QC Sample Nonconformances

Batch ID: BI71306 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
BI71306-BS1	Bromomethane - 74-83-9	3.7 ug/L	LCS	36.8	43-168	Low Bias				
BI71306-BSD1	Bromomethane - 74-83-9	3.9 ug/L	LCS Dup	38.9	43-168	Low Bias	5.55	30		
BI71306-MSD1	1,2-Dibromo-3-chloropropane - 96-12-8	4.6 ug/L	Matrix Spike Dup (KWF-MW1S)	45.7	31-151		55.0	30	Non-dir.	
BI71306-MSD1	Acetone - 67-64-1	1.1 ug/L	Matrix Spike Dup (KWF-MW1S)	11.3	13-149	Low Bias	25.5	30		

Batch ID: BI71307 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
BI71307-BSD1	1,3-Dichlorobenzene - 541-73-1	8.4 ug/L	LCS Dup	84.1	86-122	Low Bias	3.04	30		
BI71307-BSD1	Chlorobenzene - 108-90-7	8.8 ug/L	LCS Dup	87.5	88-120	Low Bias	2.37	30		

Batch ID: Y7I2835 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
Y7I2835-CCV1	Bromomethane - 74-83-9	3.02 ug/L	Calibration Check	30.2	80-120	Low Bias				
Y7I2835-CCV1	Chloromethane - 74-87-3	5.22 ug/L	Calibration Check	52.2	80-120	Low Bias				

Batch ID: Y7I2927 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
Y7I2927-CCV1	Acetone - 67-64-1	2.90 ug/L	Calibration Check	29.0	80-120	Low Bias				
Y7I2927-CCV1	Bromomethane - 74-83-9	4.15 ug/L	Calibration Check	41.5	80-120	Low Bias				
Y7I2927-CCV1	Chloromethane - 74-87-3	5.78 ug/L	Calibration Check	57.8	80-120	Low Bias				

Batch ID: BI71306 **General Method:** Volatile Organic Compounds by GC/MS

YORK Sample ID	Client Sample ID
17I0914-01	KWF-MW2S
17I0914-02	KWF-MW11R
17I0914-03	KWF-MW1S
17I0914-04	KWF-MW4R
BI71306-BLK1	Blank
BI71306-BS1	LCS
BI71306-BSD1	LCS Dup
BI71306-MS1	Matrix Spike
BI71306-MSD1	Matrix Spike Dup

Batch ID: BI71307 **General Method:** Volatile Organic Compounds by GC/MS

YORK Sample ID	Client Sample ID
17I0914-05	KWF-PW
17I0914-06	KWF-FD
17I0914-07	KWF-EB
17I0914-08	KWF-TB
BI71307-BLK1	Blank
BI71307-BS1	LCS
BI71307-BSD1	LCS Dup

No Sample Nonconformances Found

Notes: Other RCP nonconformances, if any, are detailed in the Data Quality Assessment worksheets.

For multiple surrogate analyses such as semi-volatiles, volatiles, etc, single surrogate excursions do not necessarily indicate a bias in the sample. Samples with multiple surrogate excursions may exhibit a bias in the results.

Definitions:
LCS - Laboratory Control Sample
LCS dup - Laboratory Control Sample Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
BS - Blank Spike also called LCS
BSD - Blank Spike Duplicate also called LCS dup
SRM - Standard Reference Material
DUP - Duplicate

YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
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Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

York Project No. 17I0914

YOUR Information

Company: The Chazen Company
Address: 21 Fox St
Poughkeepsie NY 12601
Phone No. 845-454-3890
Contact Person: Will Olsen
E-Mail Address: wolsen@chazencompanies.com

Report To:

Company: Chazen
Address:
Phone No.
Attention: Will Olsen
E-Mail Address:

Invoice To:

Company: Chazen
Address:
Phone No.
Attention: Accts. Payable
E-Mail Address:

YOUR Project ID

41433.00 - Katonah
Task 0500

Purchase Order No.

P.O. # 925

Samples from: CT ___ NY X NJ ___

Turn-Around Time

- RUSH - Same Day ☐
- RUSH - Next Day ☐
- RUSH - Two Day ☐
- RUSH - Three Day ☐
- RUSH - Four Day ☐
- Standard(5-7 Days) ☒

Report Type

- Summary Report ___
- Summary w/ QA Summary ___
- CT RCP Package ___
- CTRCP DQA/DUE Pkg ___
- NY ASP A Package ___
- NY ASP B Package X
- NJDEP Red. Deliv. ___

Electronic Data Deliverables (EDD)

- Simple Excel X
- NYSDEC EQuIS X
- EQuIS (std) ___
- EZ-EDD (EQuIS) ___
- NJDEP SRP HazSite EDD ___
- GIS/KEY (std) ___
- Other ___

York Regulatory Comparison

Excel Spreadsheet X

Compare to the following Regs. (please fill in):

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)

David Froeddert
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded No Dioxins/Furans	BTU/lb.
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Expanded Full List	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
KWF-MW2S	9-22-17 1055	GW	8260 - TCL/SD M (Low Level)	3x) 40ml VOA HCl
KWF-MW11R	1200	GW		3x) ↓
KWF-MW11R-MS/MSD	1200	GW		6x) 40ml VOA HCl
KWF-MW1S	1255	GW		3x
KWF-MW4R	1420	GW		3x
KWF-PW	1500	GW		3x
KWF-FD	XX:XX	GW		3x
KWF-EB	1445	D.I.		3x
KWF-TB	—	D.I.		2x) 40ml VOA

Comments

Preservation Check those Applicable
4°C ___ Frozen ___ HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other ___

Special Instructions
Field Filtered ☐
Lab to Filter ☐

	Date/Time		Date/Time
Samples Relinquished By	9-22-17 15:15	Samples Received By	9-22-17 15:15
Samples Relinquished By		Samples Received in LAB by	9/22/17 1730

Temperature on Receipt 5.3 °C