FIBERS SITE GROUP

November 10, 2017

Via Email Electronic Copy

Adalberto Bosque, PhD, MBA, REM, CEA
Response and Remediation Branch
U.S Environmental Protection Agency
City View Plaza II - Suite 7000
48 RD, 165 Km. 1.2
Guaynabo, PR 00968-8069

Subject: RD/RA Monthly Report – October 2017
Fibers Public Supply Wells Site
Guayama, Puerto Rico

Dear Mr. Bosque:

On behalf of the Fibers Public Supply Wells Site Settling Defendants, we are submitting the attached RD/RA Monthly Report prepared pursuant to the Consent Decree (Civil Action No. 92-2486) in the matter of *Unites States v. Anaquest Caribe, Inc. et al*, Section IX, Paragraph 30, Reporting Requirements.

Please feel free to contact Mr. James Kirschner of ARCADIS at (602) 797-4519 or me at (724) 544-4874 if you have any questions or comments regarding this submittal.

Sincerely,

Joe Biss, CHMM
Fibers Site Group Project Coordinator
EHS Support LLC

Copies:

Chief, New York/Caribbean Superfund Branch, Attn. Teresita Rodriguez - via email only
Ms. Margo Ludmer, Assistant Regional Counsel – via email only
Chief, Environmental Enforcement Division, U.S. Department of Justice (DOJ #90-11-2-768)
Amarilis Rodriguez Mendez, State Remedial Project Manager, Puerto Rico Environmental Quality Board - via email only
Ms. Katherine Mishkin, Hydrogeologist, USEPA Superfund Technical Support Section – via email only
Ms. Enid Diaz, Departmento de Recursos Naturales y Ambientales
Mr. Jorge Morales, PRIDCO - via email only
Mr. Joel Melendez Rodriguez, PRIDCO - via email only
Ms. Ana Palou Balsa, PRIDCO – via email only
Mr. Dan Vineyard, Jackson Walker- via email only
James Kirschner, Arcadis - via email only

RD/RA Monthly Report – October 2017
Fibers Public Supply Wells Superfund Site
Guayama, Puerto Rico

(a) Description of actions which have been taken toward achieving compliance with this Decree.

Fibers Air Stripping System

The Fibers groundwater extraction and treatment system (GWETS) was not operational during October 2017. Replacement components related to the damaged voltage regulator were shipped to Puerto Rico; however, the GWETS has been without power since Hurricanes Irma and María impacted the island in September 2017. No anticipated timeframe for power has been suggested as repairs to the island's electrical grid continue. The GWETS repairs will be scheduled as soon as reliable power is established to the system.

A summary of the daily treatment system operating records is presented in Table 1. The GWETS average flow rates are depicted on Figure 1. To date (since May 1999), approximately 3.15 billion gallons of water have been treated at the Fibers Site. The total volume of water treated to date correlates with the treatment system influent flow meter totalizer reading.

(b) Summary of all sampling results and tests, and all other data received or generated by Settling Defendants.

Groundwater influent and effluent samples were not collected during October 2017 since the GWETS is shut down.

Arcadis collected split influent and effluent water samples on September 1, 2017. The water samples were submitted to Pace Analytical Services, Inc. (Pace) in St. Rose, Louisiana and Environmental Quality Laboratories, Inc. (EQLAB) in Bayamon, Puerto Rico for volatile organic compound analyses. The Pace Data Review Report and Laboratory Analytical Report was provided in the RD/RA Monthly Report – September 2017. The EQLAB Laboratory Analytical Report was received in October 2017. A summary comparison of the September 1, 2017 GWETS Laboratory Analytical Results is provided in Table 2. Arcadis performed a data quality assessment (validation) of the laboratory analytical results reported by EQLAB. Results are summarized in the Data Review Report #28478R and provided as Attachment 1. A copy of the chain of custody and annotated sample analysis data sheets are provided as an attachment to the Data Review Report. A copy of the complete Laboratory Analytical Report #237917 is provided as Attachment 2.

(c) List of all work plans, plans and other deliverables completed and submitted.

As requested by the United States Environmental Protection Agency (USEPA), in its letter dated October 2, 2017, the Fibers Site Group provided updates on October 16 and 30, 2017 regarding the GWETS return to service.

(d) Description of all actions, including, but not limited to, data collection and implementation of work plans, which are scheduled for the next six weeks.

A summary of results from the second phase of a subsurface soil investigation on Wyeth LLC leased portion of the Site is anticipated to be submitted to the USEPA within the next six weeks.

The second semi-annual groundwater monitoring and sampling event of 2017 is expected to start in November 2017.

The first semi-annual groundwater monitoring report for 2017 is anticipated to be submitted to the USEPA within the next six weeks.

(e) Information regarding the percentage completion, unresolved delays encountered or anticipated.

Supplemental Subsurface Soil Investigations – In progress
Construction Activities – 100% complete.
System Start-Up – 100% complete.
Start-Up Performance Monitoring – 100% complete.
Long-Term Operation & Maintenance Period – In progress.
As stated above, unresolved delays in restarting the GWETS are anticipated to continue until electrical power is restored.

(f) List of any modification to work plans or other schedules the Settling Defendants have proposed.

None.

(g) Description of activities undertaken in support of the Community Relations Plan.

No support activities have been requested for the next planning period.

(h) Actions undertaken to address outside parties concerns.

No concerns from outside parties were encountered during this reporting period.

Tables

Table 1
Summary of Daily Treatment System Operating Records - October 2017
Fibers Public Supply Wells Superfund Site
Guayama, Puerto Rico

Recording Date	Influent Flow (gpm) [1]	Effluent Flow (gpm) [2]	RW-2 (gpm) [3]	RW-4 (gpm) [4]	RW-5 (gpm) [5]	pH [6]	Comments
10/1/2017	0	0	0	0	0	NR	GWETS shut down; regional power loss.
10/2/2017	0	0	0	0	0	NR	GWETS shut down; regional power loss.
10/3/2017	0	0	0	0	0	NR	GWETS shut down; regional power loss.
10/4/2017	0	0	0	0	0	NR	GWETS shut down; regional power loss.
10/5/2017	0	0	0	0	0	NR	GWETS shut down; regional power loss.
10/6/2017	0	0	0	0	0	NR	GWETS shut down; regional power loss.
10/7/2017	0	0	0	0	0	NR	GWETS shut down; regional power loss.
10/8/2017	0	0	0	0	0	NR	GWETS shut down; regional power loss.
10/9/2017	0	0	0	0	0	NR	GWETS shut down; regional power loss.
10/10/2017	0	0	0	0	0	NR	GWETS shut down; regional power loss.
10/11/2017	0	0	0	0	0	NR	GWETS shut down; regional power loss.
10/12/2017	0	0	0	0	0	NR	GWETS shut down; regional power loss.
10/13/2017	0	0	0	0	0	NR	GWETS shut down; regional power loss.
10/14/2017	0	0	0	0	0	NR	GWETS shut down; regional power loss.
10/15/2017	0	0	0	0	0	NR	GWETS shut down; regional power loss.
10/16/2017	0	0	0	0	0	NR	GWETS shut down; regional power loss.
10/17/2017	0	0	0	0	0	NR	GWETS shut down; regional power loss.
10/18/2017	0	0	0	0	0	NR	GWETS shut down; regional power loss.
10/19/2017	0	0	0	0	0	NR	GWETS shut down; regional power loss.
10/20/2017	0	0	0	0	0	NR	GWETS shut down; regional power loss.
10/21/2017	0	0	0	0	0	NR	GWETS shut down; regional power loss.
10/22/2017	0	0	0	0	0	NR	GWETS shut down; regional power loss.
10/23/2017	0	0	0	0	0	NR	GWETS shut down; regional power loss.
10/24/2017	0	0	0	0	0	NR	GWETS shut down; regional power loss.
10/25/2017	0	0	0	0	0	NR	GWETS shut down; regional power loss.

Table 1
Summary of Daily Treatment System Operating Records - October 2017
Fibers Public Supply Wells Superfund Site
Guayama, Puerto Rico

Recording Date	Influent Flow (gpm) [1]	Effluent Flow (gpm) [2]	RW-2 (gpm) [3]	RW-4 (gpm) [4]	RW-5 (gpm) [5]	pH [6]	Comments
10/26/2017	0	0	0	0	0	NR	GWETS shut down; regional power loss.
10/27/2017	0	0	0	0	0	NR	GWETS shut down; regional power loss.
10/28/2017	0	0	0	0	0	NR	GWETS shut down; regional power loss.
10/29/2017	0	0	0	0	0	NR	GWETS shut down; regional power loss.
10/30/2017	0	0	0	0	0	NR	GWETS shut down; regional power loss.
10/31/2017	0	0	0	0	0	NR	GWETS shut down; regional power loss.
Monthly Average	0	0	0	0	0	NR	

Notes:

Flow rates are 24-hour daily average.

gpm = gallons per minute.

[1] = Recorded from instrument FIT-101.

[2] = Recorded from instrument FIT-301.

[3] = Recorded from instrument RW2 FIT.

[4] = Recorded from instrument RW4 FIT.

[5] = Recorded from instrument RW5 FIT.

[6] = Recorded from instrument pHIT-201A.

NR = no reading; GWETS shut down.

Table 2
Summary of Treatment System Laboratory Analytical Results – Split Samples
Collected at the Treatment System Compound September 1, 2017
Fibers Public Supply Wells Superfund Site
Guayama, Puerto Rico

Fibers Groundwater Extraction and Treatment System

Laboratory analytical results (split samples) for water samples collected at the influent and effluent sample tap locations from the Fibers Groundwater Extraction and Treatment System on September 1, 2017 are presented below. Split samples were submitted to Pace Analytical Services, Inc. (PACE) in St. Rose, Louisiana and to Environmental Quality Laboratories, Inc. (EQLAB) in Bayamon, Puerto Rico to investigate past acetone detections in the influent and effluent treatment system water samples. Analytical results from both laboratories are presented below. The treatment system average influent flow rate at the time the samples were collected was 305 gallons per minute (gpm). Laboratory analytical results from PACE and EQLAB did not vary significantly. Acetone was not detected at or above the laboratory reporting limit in the treatment system water samples collected and analyzed. A copy of the PACE Analytical Report is included in the Fibers RD/RA Monthly Report – September 2017, Attachment 2. A copy of the EQLAB Analytical Report is included in this report as Attachment 2.

	VOC (µg/L)							
	Sample ID							
Compound	EFF-20170901		EFFDUP-20170901		INF-20170901		TB-20170901	
	PACE	EQLAB	PACE	EQLAB	PACE	EQLAB	PACE	EQLAB
Tetrachloroethene	ND	ND	ND	ND	6.6	6.50	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	BDL	ND	ND
cis-1,2-dichloroethene	ND	ND	ND	ND	ND	BDL	ND	ND
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND	ND	ND
Acrolein	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	1.20 J	ND	BDL	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	R	R	ND	ND	ND	ND	ND	ND
m&p-xylene	2.0 UJ	1.8 UJ	ND	ND	ND	ND	ND	ND
2-Chloroethyl Vinyl Ether	NA	R	NA	R	NA	R	NA	R
1,2,4-Trimethylbenzene	NA	R	NA	ND	NA	ND	NA	ND
1,3,5-Trimethylbenzene	NA	R	NA	ND	NA	ND	NA	ND
Vinyl Acetate	NA	6.0 UJ	NA	ND	NA	ND	NA	ND
Iodomethane	NA	R	NA	ND	NA	ND	NA	ND
Naphthalene	NA	2.0 UJ	NA	ND	NA	ND	NA	ND
Trans-1,4-Dichloro-2-butene	NA	6.0 UJ	NA	ND	NA	ND	NA	ND
Enflurane	ND	NA	ND	NA	1.6	NA	ND	NA
Haloether 229	ND	NA	ND	NA	24.8	NA	ND	NA
Haloether 406	ND	NA	ND	NA	ND	NA	ND	NA
Haloether 508	ND	NA	ND	NA	48.5	NA	ND	NA
Haloether 528	ND	NA	ND	NA	1.0	NA	ND	NA
Halomar	ND	NA	ND	NA	1.0	NA	ND	NA
Isoflurane	ND	NA	ND	NA	71.2	NA	ND	NA
Total Haloethers	ND	NA	ND	NA	148	NA	ND	NA
Other VOC	ND	ND	ND	ND	ND	ND	ND	ND

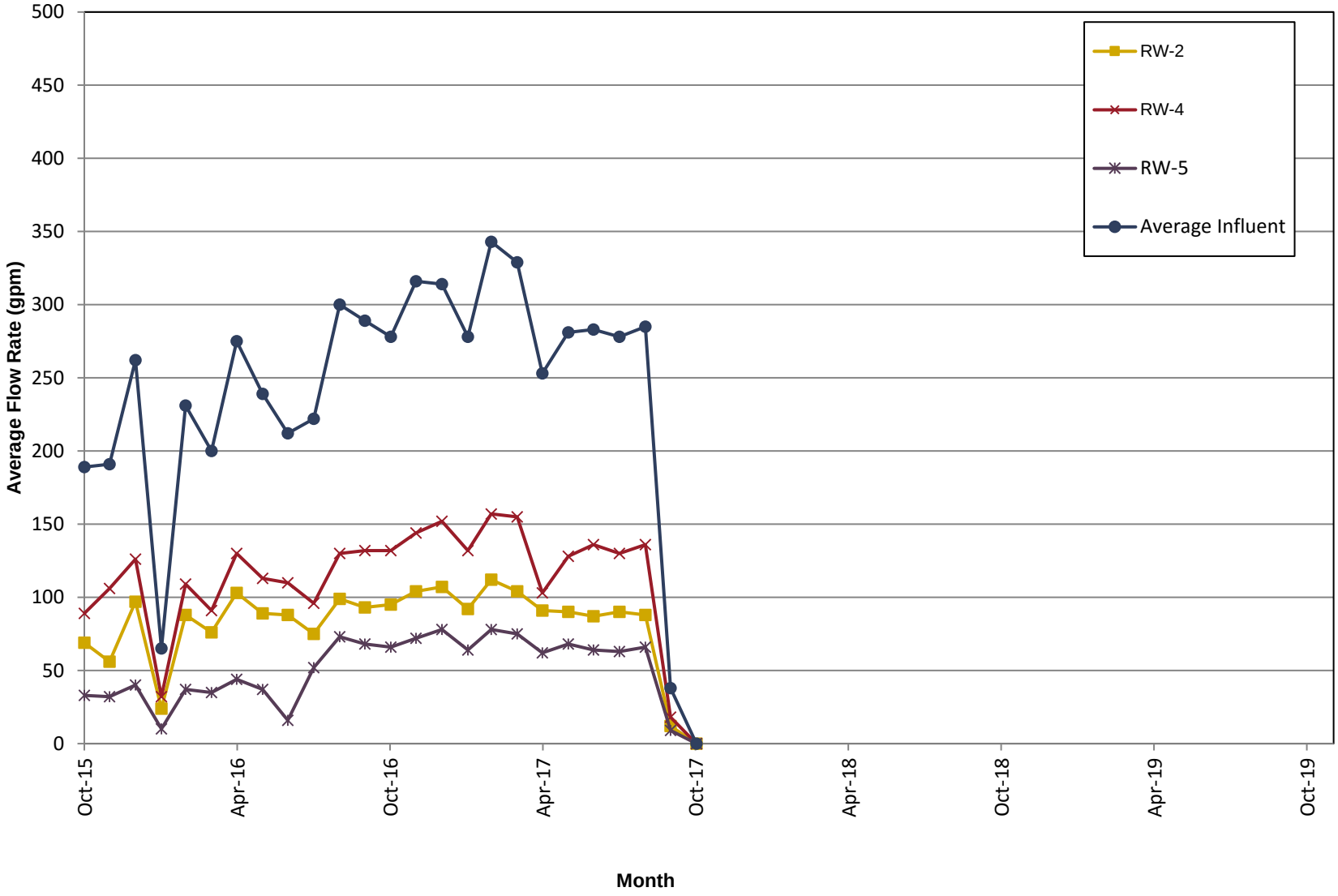
Notes:
VOC = volatile organic compounds.
µg/L = micrograms per liter.
EFF = effluent sample.
EFFDUP = effluent duplicate sample.

Table 2
Summary of Treatment System Laboratory Analytical Results – Split Samples
Collected at the Treatment System Compound September 1, 2017
Fibers Public Supply Wells Superfund Site
Guayama, Puerto Rico

Notes:
INF = influent sample.
TB = trip blank.
ND = not detected at or above laboratory reporting limit.
J = the compound was positively identified; however, the associated numerical value is an estimated concentration only.
UJ = The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
R = The sample results are rejected.
NA = not analyzed.
BDL = below detection limit.

Figure

Figure 1
Fibers Public Supply Wells Superfund Site
Summary of Treatment System Flow Rates



Attachment 1
Data Review Report #28478R

Fibers Group

Data Review

GUAYAMA, PUERTO RICO

Volatiles Analyses

SDG #237917 (WO 655-04-26)
Analyses Performed By:
eqlab - Environmental Quality Laboratories, Inc.
San Juan, Puerto Rico

Report: #28478R
Review Level: Tier II
Project: CO001911.0005.1705A

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #237917 (WO 655-04-26) for samples collected in association with the Fibers Group Site. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Included with this assessment are the validation annotated sample result sheets and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	TPH	MET	MISC
INF-20170901	2721708	Water	09/01/2017		X				
EFF-20170901	2721709	Water	09/01/2017		X				
EFF DUP-20170901	2721710	Water	09/01/2017	EFF-20170901	X				
TRIP BLANK	2721713	Water	09/01/2017		X				

Note:

1. The matrix spike/matrix spike duplicate (MS/MSD) analysis was performed on sample location EFF-20170901.

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

  U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

  B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers

  E The compound was quantitated above the calibration range.

  D Concentration is based on a diluted sample analysis.

- Validation Qualifiers

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

  JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

  UB Compound considered non-detect at the listed value due to associated blank contamination.

  N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

  R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260	Water	14 days from collection to analysis	Cool to <6 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cool to <6 °C.

s.u. Standard units

All samples were analyzed within acceptable holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the reporting limit (RL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the RL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

Sample locations associated with the MS/MSD exhibiting recoveries outside of the control limits are presented in the following table.

Sample Locations	Compound	MS Recovery	MSD Recovery
EFF-20170901	Naphthalene	< LL but > 10%	AC
	m,p-Xylene		
	trans-1,4-Dichloro-2-butene		
	1,2,4-Trimethylbenzene	<10%	AC
	Styrene	<10%	<10%
	Vinyl Acetate	< LL but > 10%	< LL but > 10%
	1,3,5-Trimethylbenzene	<10%	< LL but > 10%
	Iodomethane		

AC Acceptable

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Parent sample concentration > four times the MS/MSD spiking solution concentration.	Detect	No Action
	Non-detect	

Sample locations associated with MS/MSD recoveries exhibiting an RPD greater than of the control limit presented in the following table.

Sample Locations	Compound
EFF-20170901	Naphthalene
	m,p-Xylene
	trans-1,4-Dichloro-2-butene

The criteria used to evaluate the RPD between the MS/MSD recoveries are presented in the following table. In the case of an RPD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> UL	Non-detect	UJ
	Detect	J

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

6. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
EFF-20170901/ EFF DUP-20170901	Bromoform	1.2 J	3.0 U	AC

AC Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

7. System Performance and Overall Assessment

Note: 2-Chloroethyl vinyl ether degrades in the presence of acid. Since the samples were preserved with acid to a pH of less than 2, the not detected results for 2-chloroethyl vinyl ether were rejected for all samples within this SDG.

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment/Field blanks					X
C. Trip blanks		X		X	
Laboratory Control Sample (LCS) Accuracy (%R)		X		X	
Laboratory Control Sample Duplicate (LCSD) %R					X
LCS/LCSD Precision (RPD)					X
Matrix Spike (MS) %R		X	X		
Matrix Spike Duplicate (MSD) %R		X	X		
MS/MSD Precision RPD		X	X		
Field/Laboratory Duplicate Sample RPD		X		X	
Surrogate Spike %R		X		X	
Dilution Factor		X		X	
Moisture Content					X

%R Percent recovery
RPD Relative percent difference
%RSD Relative standard deviation
%D Percent difference

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE: _____

DATE: October 10, 2017

PEER REVIEW: Dennis Capria

DATE: October 12, 2017

CHAIN OF CUSTODY/
ANNOTATED SAMPLE ANALYSIS DATA SHEETS

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **INF-20170901**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721708**	Collected Date & Time:	**09/01/2017** 09:26	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017 14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	237917			Proposal Number:	20166 - 2

Remarks:

Parameter	Method	Results	Units	DQ	Limits MDL	Limits MRL	Limits MCL	Analysis Date	Analysis Time	Analysis By	Prep Method Date	Prep Method By	Prep Method Method
1,1,1,2-Tetrachloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
1,1,1-Trichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
1,1,2,2-Tetrachloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
1,1,2-Trichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
1,1-Dichloroethane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
1,1-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
1,1-Dichloropropene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
1,2,3-Trichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
1,2,3-Trichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
1,2,4-Trichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
1,2,4-Trimethylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
1,2-Dibromo-3-chloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
1,2-Dibromoethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
1,2-Dichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
1,2-Dichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
1,3,5-Trimethylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B

ND = Not Detected MCL = Maximum Contaminant Level BDL = Below Detection Limit DNI = Does Not Ignite MDL = Minimum Detection Limit N/A = Not Applicable
MO = Monitoring Only MRL = Minimum Reporting Level PTRL = Pattern Recognition Level. All results are calculated on a wet weight basis unless otherwise stated. All results relate only to this sample.
+ = Parameter is not accredited under EQLab's NELAP Certification

ACCREDITED IN ACCORDANCE WITH nela

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ENVIRONMENTAL QUALITY LABORATORIES, INC.
60 E STREET, MINILLAS INDUSTRIAL PARK, BAYAMÓN, PR 00959
PO BOX 11458 SANTURCE, PR 00910-1458 TEL. (787) 288-6420 FAX (787) 288-6465 www.eqlab.com

PRDOH Certified
EPA ID PR00014

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **INF-20170901**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721708**	Collected Date & Time:	**09/01/2017** 09:26	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017 14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	237917			Proposal Number:	20166 - 2

Remarks:

Parameter	Method	Results	Units	DQ	Limits MDL	Limits MRL	Limits MCL	Analysis Date	Analysis Time	Analysis By	Prep Method Date	Prep Method By	Prep Method Method
1,3-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
1,3-Dichloropropane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
1,4-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
1-Chlorohexane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
2,2-Dichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
2-Butanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
2-Chloroethyl vinyl ether	EPA 8260B	R ~~ND~~	~~µg/L~~	~~U~~	~~6.0~~	~~15.0~~		~~09/08/2017~~	~~17:45~~	~~NIVA~~	~~09/08/2017~~	~~--~~	~~EPA 5030B~~
2-Chlorotoluene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
2-Hexanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
4-Chlorotoluene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
4-Isopropyltoluene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
4-Methyl-2-pentanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Acetone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Acrolein	EPA 8260B	ND	µg/L	U	25.0	75.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Acrylonitrile	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Benzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B

ND = Not Detected MCL = Maximum Contaminant Level BDL = Below Detection Limit DNI = Does Not Ignite MDL = Minimum Detection Limit N/A = Not Applicable
MO = Monitoring Only MRL = Minimum Reporting Level PTRL = Pattern Recognition Level All results are calculated on a wet weight basis unless otherwise stated. All results relate only to this sample.
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ACCREDITED IN ACCORDANCE WITH nelac
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To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **INF-20170901**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721708**	Collected Date & Time:	**09/01/2017** 09:26	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017 14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	237917			Proposal Number:	20166 - 2

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
Bromobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Bromochloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Bromodichloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Bromoform	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Bromomethane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Carbon disulfide	EPA 8260B	ND	µg/L	U	7.0	15.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Carbon tetrachloride	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Chlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Chloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Chloroform	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Chloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Dibromochloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Dibromomethane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Dichlorodifluoromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Dichloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Epichlorohydrin	EPA 8260B	ND	µg/L	U	30.0	75.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B

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MO = Monitoring Only MRL = Minimum Reporting Level PTRL = Pattern Recognition Level. All results are calculated on a wet weight basis unless otherwise stated. All results relate only to this sample.
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PRDOH Certified
EPA ID PR00014

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **INF-20170901**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721708**	Collected Date & Time:	**09/01/2017** 09:26	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017 14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	237917			Proposal Number:	20166 - 2

Remarks:

	Parameter	Method	Results	Units	DQ	Limits MDL	Limits MRL	Limits MCL	Analysis Date	Analysis Time	Analysis By	Prep Method Date	Prep Method By	Prep Method Method
	Ethylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
	Hexachlorobutadiene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
	Iodomethane	EPA 8260B	ND	µg/L	U	8.0	15.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
	Isopropylbenzene	EPA 8260B	ND	µg/L	U	2.0	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
	Naphthalene	EPA 8260B	ND	µg/L	U	2.0	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
	Styrene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
	Tetrachloroethene	EPA 8260B	6.50	µg/L	--	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
+	Tetrahydrofuran	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
	Toluene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
	Trichloroethene	EPA 8260B	BDL	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
	Trichlorofluoromethane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
	Vinyl Acetate	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
	Vinyl chloride	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
	cis-1,2-Dichloroethene	EPA 8260B	BDL	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
	cis-1,3-Dichloropropene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
	m,p-Xylene	EPA 8260B	ND	µg/L	U	1.8	6.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B

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Attn: MR. ELVIN VARELA
Source: **INF-20170901**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721708**	Collected Date & Time:	**09/01/2017** 09:26	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017 14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	237917			Proposal Number:	20166 - 2

Remarks:

Parameter	Method	Results	Units	DQ	Limits MDL	Limits MRL	Limits MCL	Analysis Date	Analysis Time	Analysis By	Prep Method Date	Prep Method By	Prep Method Method
n-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
n-Propylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
o-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.0	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
o-Xylene	EPA 8260B	ND	µg/L	U	2.3	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
sec-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
tert-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
trans-1,2-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
trans-1,3-Dichloropropene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
trans-1,4-Dichloro-2-butene	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B

SONIA PICHARDO RODRIGUEZ · Químico Licenciado · Estado Libre Asociado de Puerto Rico · LICENCIA NUM. 4538

Certified by Laboratory Director

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GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFF-20170901**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721709**	Collected Date & Time:	**09/01/2017** 10:07	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017 14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	237917			Proposal Number:	20166 - 2

Remarks:

Parameter	Method	Results	Units	DQ	Limits MDL	Limits MRL	Limits MCL	Analysis Date	Analysis Time	Analysis By	Prep Method Date	Prep Method By	Prep Method Method
1,1,1,2-Tetrachloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
1,1,1-Trichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
1,1,2,2-Tetrachloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
1,1,2-Trichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
1,1-Dichloroethane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
1,1-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
1,1-Dichloropropene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
1,2,3-Trichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
1,2,3-Trichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
1,2,4-Trichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
1,2,4-Trimethylbenzene	EPA 8260B	R ~~ND~~	~~µg/L~~	~~J,U~~	~~1.2~~	~~3.0~~	~~--~~	~~09/08/2017~~	~~18:14~~	~~NIVA~~	~~09/08/2017~~	~~--~~	~~EPA 5030B~~
1,2-Dibromo-3-chloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
1,2-Dibromoethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
1,2-Dichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
1,2-Dichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
1,3,5-Trimethylbenzene	EPA 8260B	R ~~ND~~	~~µg/L~~	~~J,U~~	~~1.2~~	~~3.0~~	~~--~~	~~09/08/2017~~	~~18:14~~	~~NIVA~~	~~09/08/2017~~	~~--~~	~~EPA 5030B~~

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Attn: MR. ELVIN VARELA
Source: **EFF-20170901**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721709**	Collected Date & Time:	**09/01/2017** 10:07	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017 14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	237917			Proposal Number:	20166 - 2

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
1,3-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
1,3-Dichloropropane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
1,4-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
1-Chlorohexane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
2,2-Dichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
2-Butanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
2-Chloroethyl vinyl ether	EPA 8260B	R ~~ND~~	~~µg/L~~	~~J,U~~	~~6.0~~	~~15.0~~	~~--~~	~~09/08/2017~~	~~18:14~~	~~NIVA~~	~~09/08/2017~~	~~--~~	~~EPA 5030B~~
2-Chlorotoluene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
2-Hexanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
4-Chlorotoluene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
4-Isopropyltoluene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
4-Methyl-2-pentanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Acetone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Acrolein	EPA 8260B	ND	µg/L	U	25.0	75.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Acrylonitrile	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Benzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B

ND = Not Detected MCL = Maximum Contaminant Level BDL = Below Detection Limit DNI = Does Not Ignite MDL = Minimum Detection Limit N/A = Not Applicable
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ACCREDITED IN ACCORDANCE WITH nela

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PRDOH Certified
EPA ID PR00014

ENVIRONMENTAL QUALITY LABORATORIES, INC.
60 E STREET, MINILLAS INDUSTRIAL PARK, BAYAMÓN, PR 00959
PO BOX 11458 SANTURCE, PR 00910-1458 TEL. (787) 288-6420 FAX (787) 288-6465 www.eqlab.com

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFF-20170901**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721709**	Collected Date & Time:	**09/01/2017** 10:07	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017 14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	237917			Proposal Number:	20166 - 2

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
Bromobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Bromochloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Bromodichloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Bromoform	EPA 8260B	1.20 J	µg/L	--	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Bromomethane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Carbon disulfide	EPA 8260B	ND	µg/L	U	7.0	15.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Carbon tetrachloride	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Chlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Chloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Chloroform	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Chloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Dibromochloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Dibromomethane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Dichlorodifluoromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Dichloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Epichlorohydrin	EPA 8260B	ND	µg/L	U	30.0	75.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B

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ACCREDITED IN ACCORDANCE WITH nelac

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PRDOH Certified
EPA ID PR00014

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFF-20170901**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721709**	Collected Date & Time:	**09/01/2017** 10:07	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017 14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	237917			Proposal Number:	20166 - 2

Remarks:

	Parameter	Method	Results	Units	DQ	Limits MDL	Limits MRL	Limits MCL	Analysis Date	Analysis Time	Analysis By	Prep Method Date	Prep Method By	Prep Method Method
	Ethylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
	Hexachlorobutadiene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
	Iodomethane	EPA 8260B	R ~~ND~~	~~µg/L~~	~~J,U~~	~~8.0~~	~~15.0~~	~~--~~	~~09/08/2017~~	~~18:14~~	~~NIVA~~	~~09/08/2017~~	~~--~~	~~EPA 5030B~~
	Isopropylbenzene	EPA 8260B	ND	µg/L	U	2.0	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
	Naphthalene	EPA 8260B	ND	µg/L	~~J,U~~ UJ	2.0	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
	Styrene	EPA 8260B	R ~~ND~~	~~µg/L~~	~~J,U~~	~~1.2~~	~~3.0~~	~~--~~	~~09/08/2017~~	~~18:14~~	~~NIVA~~	~~09/08/2017~~	~~--~~	~~EPA 5030B~~
	Tetrachloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
+	Tetrahydrofuran	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
	Toluene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
	Trichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
	Trichlorofluoromethane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
	Vinyl Acetate	EPA 8260B	ND	µg/L	~~J,U~~ UJ	6.0	15.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
	Vinyl chloride	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
	cis-1,2-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
	cis-1,3-Dichloropropene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
	m,p-Xylene	EPA 8260B	ND	µg/L	~~J,U~~ UJ	1.8	6.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B

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EPA ID PR00014

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#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFF-20170901**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab
ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721709**	Collected Date & Time:	**09/01/2017** 10:07	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017 14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	237917			Proposal Number:	20166 - 2

Remarks:

Parameter	Method	Results	Units	DQ	Limits MDL	Limits MRL	Limits MCL	Analysis Date	Analysis Time	Analysis By	Prep Method Date	Prep Method By	Prep Method Method
n-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
n-Propylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
o-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.0	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
o-Xylene	EPA 8260B	ND	µg/L	U	2.3	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
sec-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
tert-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
trans-1,2-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
trans-1,3-Dichloropropene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
trans-1,4-Dichloro-2-butene	EPA 8260B	ND	µg/L	~~UJ~~ UJ	6.0	15.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B

SONIA PICHARDO RODRIGUEZ
Químico Licenciado
Estado Libre Asociado de Puerto Rico
LICENCIA NUM. 4538

Certified Laboratory Director

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PRDOH Certified
EPA ID PR00014

ENVIRONMENTAL QUALITY LABORATORIES, INC.
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PO BOX 11458 SANTURCE, PR 00910-1458 TEL. (787) 288-6420 FAX (787) 288-6465 www.eqlab.com

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFF DUP-20170901**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721710**	Collected Date & Time:	**09/01/2017** 10:07	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017 14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	237917			Proposal Number:	20166 - 2

Remarks:

Parameter	Method	Results	Units	DQ	Limits MDL	Limits MRL	Limits MCL	Analysis Date	Analysis Time	Analysis By	Prep Method Date	Prep Method By	Prep Method Method
1,1,1,2-Tetrachloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
1,1,1-Trichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
1,1,2,2-Tetrachloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
1,1,2-Trichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
1,1-Dichloroethane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
1,1-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
1,1-Dichloropropene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
1,2,3-Trichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
1,2,3-Trichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
1,2,4-Trichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
1,2,4-Trimethylbenzene	EPA 8260B	ND	µg/L	J,U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
1,2-Dibromo-3-chloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
1,2-Dibromoethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
1,2-Dichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
1,2-Dichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
1,3,5-Trimethylbenzene	EPA 8260B	ND	µg/L	~~J~~,U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B

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Attn: MR. ELVIN VARELA
Source: **EFF DUP-20170901**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721710**	Collected Date & Time:	**09/01/2017** 10:07	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017 14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	237917			Proposal Number:	20166 - 2

Remarks:

Parameter	Method	Results	Units	DQ	Limits MDL	Limits MRL	Limits MCL	Analysis Date	Analysis Time	Analysis By	Prep Method Date	Prep Method By	Prep Method Method
1,3-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
1,3-Dichloropropane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
1,4-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
1-Chlorohexane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
2,2-Dichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
2-Butanone	EPA 8260B	ND	µg/L	U	6.0	15 0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
2-Chloroethyl vinyl ether	EPA 8260B	R ~~ND~~	~~µg/L~~	~~J,U~~	~~6.0~~	~~15.0~~	~~--~~	~~09/08/2017~~	~~18:44~~	~~NIVA~~	~~09/08/2017~~	~~--~~	~~EPA 5030B~~
2-Chlorotoluene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
2-Hexanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
4-Chlorotoluene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
4-Isopropyltoluene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
4-Methyl-2-pentanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Acetone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Acrolein	EPA 8260B	ND	µg/L	U	25.0	75.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Acrylonitrile	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Benzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B

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ENVIRONMENTAL QUALITY LABORATORIES, INC.
60 E STREET, MINILLAS INDUSTRIAL PARK, BAYAMÓN, PR 00959
PO BOX 11458 SANTURCE, PR 00910-1458 TEL. (787) 288-6420 FAX (787) 288-6465 www.eqlab.com

PRDOH Certified
EPA ID PR00014

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFF DUP-20170901**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721710**	Collected Date & Time:	**09/01/2017** 10:07	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017 14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	237917			Proposal Number:	20166 - 2

Remarks:

Parameter	Method	Results	Units	DQ	Limits MDL	Limits MRL	Limits MCL	Analysis Date	Analysis Time	Analysis By	Prep Method Date	Prep Method By	Prep Method Method
Bromobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Bromochloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Bromodichloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Bromoform	EPA 8260B	BDL	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Bromomethane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Carbon disulfide	EPA 8260B	ND	µg/L	U	7.0	15.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Carbon tetrachloride	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Chlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Chloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Chloroform	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Chloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Dibromochloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Dibromomethane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Dichlorodifluoromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Dichloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Epichlorohydrin	EPA 8260B	ND	µg/L	U	30.0	75.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B

ND = Not Detected MCL = Maximum Contaminant Level BDL = Below Detection Limit DNI = Does Not Ignite MDL = Minimum Detection Limit N/A = Not Applicable
MO = Monitoring Only MRL = Minimum Reporting Level PTRL = Pattern Recognition Level. All results are calculated on a wet weight basis unless otherwise stated. All results relate only to this sample.
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ACCREDITED IN ACCORDANCE WITH nelac

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Refer to eqlab certification number E87783 at www.eqlab.com.

PRDOH Certified
EPA ID PR00014

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFF DUP-20170901**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab
ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721710**	Collected Date & Time:	**09/01/2017** 10:07	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017 14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	237917			Proposal Number:	20166 - 2

Remarks:

	Parameter	Method	Results	Units	DQ	Limits MDL	Limits MRL	Limits MCL	Analysis Date	Analysis Time	Analysis By	Prep Method Date	Prep Method By	Prep Method Method
	Ethylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
	Hexachlorobutadiene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
	Iodomethane	EPA 8260B	ND	µg/L	~~J~~,U	8.0	15.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
	Isopropylbenzene	EPA 8260B	ND	µg/L	U	2.0	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
	Naphthalene	EPA 8260B	ND	µg/L	~~J~~,U	2.0	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
	Styrene	EPA 8260B	ND	µg/L	~~J~~,U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
	Tetrachloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
+	Tetrahydrofuran	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
	Toluene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
	Trichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
	Trichlorofluoromethane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
	Vinyl Acetate	EPA 8260B	ND	µg/L	~~J~~,U	6.0	15.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
	Vinyl chloride	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
	cis-1,2-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
	cis-1,3-Dichloropropene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
	m,p-Xylene	EPA 8260B	ND	µg/L	~~J~~,U	1.8	6.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B

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ACCREDITED IN ACCORDANCE WITH nelac
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PRDOH Certified
EPA ID PR00014

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFF DUP-20170901**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	2721710	Collected Date & Time:	09/01/2017	10:07	Date of Report:	09/15/2017	
Work Order:	655-04-26	Received Date & Time:	09/01/2017	14:03	Collected By:	ACOLON	
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C		Eqlab Rep.:	EGARCIA	
Folder Number:	237917				Proposal Number:	20166 - 2	

Remarks:

Parameter	Method	Results	Units	DQ	Limits MDL	Limits MRL	Limits MCL	Analysis Date	Analysis Time	Analysis By	Prep Method Date	Prep Method By	Prep Method Method
n-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
n-Propylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
o-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.0	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
o-Xylene	EPA 8260B	ND	µg/L	U	2.3	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
sec-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
tert-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
trans-1,2-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
trans-1,3-Dichloropropene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
trans-1,4-Dichloro-2-butene	EPA 8260B	ND	µg/L	~~+~~,U	6.0	15.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B

SONIA PICHARDO RODRIGUEZ
Químico Licenciado
Estado Libre Asociado de Puerto Rico
LICENCIA NUM. 8

Certified Laboratory Director

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To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **TRIP BLANK**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: DI WATER - Grab
Client Ref. #: N/A

eqlab
ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721713**	Collected Date & Time:	**09/01/2017** 09:00	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017 14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	237917			Proposal Number:	20166 - 2

Remarks:

Parameter	Method	Results	Units	DQ	Limits MDL	Limits MRL	Limits MCL	Analysis Date	Analysis Time	Analysis By	Prep Method Date	Prep Method By	Prep Method Method
1,1,1,2-Tetrachloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
1,1,1-Trichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
1,1,2,2-Tetrachloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
1,1,2-Trichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
1,1-Dichloroethane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
1,1-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
1,1-Dichloropropene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
1,2,3-Trichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
1,2,3-Trichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
1,2,4-Trichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
1,2,4-Trimethylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
1,2-Dibromo-3-chloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
1,2-Dibromoethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
1,2-Dichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
1,2-Dichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
1,3,5-Trimethylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B

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To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **TRIP BLANK**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: DI WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721713**	Collected Date & Time:	**09/01/2017** 09:00	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017 14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	237917			Proposal Number:	20166 - 2

Remarks:

Parameter	Method	Results	Units	DQ	Limits MDL	Limits MRL	Limits MCL	Analysis Date	Analysis Time	Analysis By	Prep Method Date	Prep Method By	Prep Method Method
1,3-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
1,3-Dichloropropane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
1,4-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
1-Chlorohexane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
2,2-Dichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
2-Butanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
2-Chloroethyl vinyl ether	EPA 8260B	R ~~ND~~	~~µg/L~~	~~U~~	~~6.0~~	~~15.0~~	~~--~~	~~09/08/2017~~	~~16:44~~	~~NIVA~~	~~09/08/2017~~	~~--~~	~~EPA 5030B~~
2-Chlorotoluene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
2-Hexanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
4-Chlorotoluene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
4-Isopropyltoluene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
4-Methyl-2-pentanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
Acetone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
Acrolein	EPA 8260B	ND	µg/L	U	25.0	75.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
Acrylonitrile	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
Benzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B

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Source: **TRIP BLANK**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: DI WATER - Grab
Client Ref. #: N/A

eqlab
ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	2721713	Collected Date & Time:	**09/01/2017** 09:00	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017 14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	237917			Proposal Number:	20166 - 2

Remarks:

Parameter	Method	Results	Units	DQ	Limits			Analysis			Prep Method		
					MDL	MRL	MCL	Date	Time	By	Date	By	Method
Bromobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
Bromochloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
Bromodichloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
Bromoform	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
Bromomethane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
Carbon disulfide	EPA 8260B	ND	µg/L	U	7.0	15.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
Carbon tetrachloride	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
Chlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
Chloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
Chloroform	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
Chloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
Dibromochloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
Dibromomethane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
Dichlorodifluoromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
Dichloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
Epichlorohydrin	EPA 8260B	ND	µg/L	U	30.0	75.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B

ND = Not Detected MCL = Maximum Contaminant Level BDL = Below Detection Limit DNI = Does Not Ignite MDL = Minimum Detection Limit N/A = Not Applicable
MO = Monitoring Only MRL = Minimum Reporting Level PTRL = Pattern Recognition Level. All results are calculated on a wet weight basis unless otherwise stated. All results relate only to this sample.
+ = Parameter is not accredited under EQLab's NELAP Certification

ACCREDITED IN ACCORDANCE WITH nelac
The results presented herein meet all NELAC requirements.
Refer to eqlab certification number E87783 at www.eqlab.com.

PRDOH Certified
EPA ID PR00014

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **TRIP BLANK**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: DI WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721713**	Collected Date & Time:	**09/01/2017** 09:00	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017 14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	237917			Proposal Number:	20166 - 2

Remarks:

	Parameter	Method	Results	Units	DQ	Limits MDL	Limits MRL	Limits MCL	Analysis Date	Analysis Time	Analysis By	Prep Method Date	Prep Method By	Prep Method Method
	Ethylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
	Hexachlorobutadiene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
	Iodomethane	EPA 8260B	ND	µg/L	U	8.0	15.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
	Isopropylbenzene	EPA 8260B	ND	µg/L	U	2.0	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
	Naphthalene	EPA 8260B	ND	µg/L	U	2.0	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
	Styrene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
	Tetrachloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
+	Tetrahydrofuran	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
	Toluene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
	Trichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
	Trichlorofluoromethane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
	Vinyl Acetate	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
	Vinyl chloride	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
	cis-1,2-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
	cis-1,3-Dichloropropene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
	m,p-Xylene	EPA 8260B	ND	µg/L	U	1.8	6.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B

ND = Not Detected MCL = Maximum Contaminant Level BDL = Below Detection Limit DNI = Does Not Ignite MDL = Minimum Detection Limit N/A = Not Applicable
MO = Monitoring Only MRL = Minimum Reporting Level PTRL = Pattern Recognition Level All results are calculated on a wet weight basis unless otherwise stated. All results relate only to this sample.
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ACCREDITED IN ACCORDANCE WITH nelac
The results presented herein meet all NELAC requirements.
Refer to eqlab certification number E87783 at www.eqlab.com.

PRDOH Certified
EPA ID PR00014

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **TRIP BLANK**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: DI WATER - Grab
Client Ref. #: N/A

eqlab
ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	2721713	Collected Date & Time:	09/01/2017 09:00	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017 14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	237917			Proposal Number:	20166 - 2

Remarks:

Parameter	Method	Results	Units	DQ	Limits MDL	Limits MRL	Limits MCL	Analysis Date	Analysis Time	Analysis By	Prep Method Date	Prep Method By	Prep Method Method
n-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
n-Propylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
o-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.0	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
o-Xylene	EPA 8260B	ND	µg/L	U	2.3	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
sec-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
tert-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
trans-1,2-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
trans-1,3-Dichloropropene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
trans-1,4-Dichloro-2-butene	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B

SONIA PICHARDO RODRIGUEZ · Químico Licenciado · Estado Libre Asociado de Puerto Rico · LICENCIA NUM. 638

Certified Laboratory Director

ND = Not Detected MCL = Maximum Contaminant Level BDL = Below Detection Limit DNI = Does Not Ignite MDL = Minimum Detection Limit N/A = Not Applicable
MO = Monitoring Only MRL = Minimum Reporting Level PTRL = Pattern Recognition Level. All results are calculated on a wet weight basis unless otherwise stated. All results relate only to this sample.
+ = Parameter is not accredited under EQLab's NELAP Certification

ACCREDITED IN ACCORDANCE WITH nelac
The results presented herein meet all NELAC requirements.
Refer to eqlab certification number E87783 at www.eqlab.com.

PRDOH Certified
EPA ID PR00014

ENVIRONMENTAL QUALITY LABORATORIES, INC.
60 E STREET, MINILLAS INDUSTRIAL PARK, BAYAMÓN, PR 00959
PO BOX 11458 SANTURCE, PR 00910-1458 TEL. (787) 288-6420 FAX (787) 288-6465 www.eqlab.com

ENVIRONMENTAL QUALITY LABORATORIES, INC.

SAMPLE DELIVERY SLIP & CHAIN OF CUSTODY

2017-07756

PO BOX 11458, SAN JUAN, PR 00910-1458 • TEL. (787) 288-6420, FAX (787) 288-6465, e-mail: info@eqlab.com

ENT NAME: [illegible] CLIENT ID: [illegible] W.O. #: [illegible] SITE: [illegible] CLIENT REP: [illegible]

#: [illegible] PWSID #: FOLDER #: [illegible] PROJECT: [illegible] EQLAB REP: [illegible]

SAMPLE INFORMATION		CONTAINER INFORMATION	FIELD TESTING	ANALYSIS REQUESTED
AMPLE #: [illegible] ATRIX: [illegible] OURCE: [illegible] INF-20170901	DATE: 09/01/17 TIME: 0926 TYPE: [illegible]	TYPE [illegible] COLOR [illegible] VOLUME [illegible] PRESERVATIVE [illegible]		[illegible]
AMPLE #: [illegible] ATRIX: [illegible] OURCE: [illegible] EFF-20170901	DATE: 09/01/17 TIME: 1007 TYPE: [illegible]	TYPE [illegible] COLOR [illegible] VOLUME [illegible] PRESERVATIVE [illegible]		[illegible]
AMPLE #: [illegible] ATRIX: [illegible] OURCE: [illegible] EFF DUP-20170901	DATE: 09/01/17 TIME: 1007 TYPE: [illegible]	TYPE [illegible] COLOR [illegible] VOLUME [illegible] PRESERVATIVE [illegible]		[illegible]
AMPLE #: [illegible] ATRIX: [illegible] OURCE: [illegible] EFFMS-20170901	DATE: 09/01/17 TIME: 1007 TYPE: [illegible]	TYPE [illegible] COLOR [illegible] VOLUME [illegible] PRESERVATIVE [illegible]		[illegible]

USTODY RECORD	SIGNATURE	DATE	TIME
ollected in field by:	André Colon	09/01/17	1445
xed in field by:	André Colon	09/01/17	
uthorized by:	NA	NA	
eceived by EQLF:			
eleased to EQLL by:		09/01/17	1403
eceived by EQLL:		09/01/17	1403

SPECIAL INSTRUCTIONS / COMMENTS:

*EQLF = Eqlab's Field Personnel.
*EQLL = Eqlab's Log-in Personnel.

DIAR

Arrival Temperature: 3.0°C Signature: [illegible]

Eqlab's general terms and conditions on reverse side of this document.

ENVIRONMENTAL QUALITY LABORATORIES, INC.

SAMPLE DELIVERY SLIP & CHAIN OF CUSTODY

2017-07756

PO BOX 11458, SAN JUAN, PR 00910-1458 • TEL. (787) 288-6420, FAX (787) 288-6465, e-mail: info@eqlab.com

IENT NAME: CLIENT ID: W.O. #: SITE: CLIENT REP:

D. #: PWSID #: FOLDER #: PROJECT: EQLAB REP:

SAMPLE INFORMATION		CONTAINER INFORMATION	FIELD TESTING		ANALYSIS REQUESTED
SAMPLE #: MATRIX: SOURCE: EPP MSD - 20170901	DATE: 09/01/17 TIME: 1000 TYPE:	TYPE COLOR VOLUME PRESERVATIVE			
SAMPLE #: MATRIX: SOURCE:	DATE: 09/01/17 TIME: LAB TYPE:	TYPE COLOR VOLUME PRESERVATIVE			
SAMPLE #: MATRIX: SOURCE:	DATE: TIME: TYPE:	TYPE COLOR VOLUME PRESERVATIVE			
SAMPLE #: MATRIX: SOURCE:	DATE: TIME: TYPE:	TYPE COLOR VOLUME PRESERVATIVE			

CUSTODY RECORD	SIGNATURE	DATE	TIME
Collected in field by:	Andrés Colon	09/01/17	varias
Fixed in field by:	Andrés Colon	09/01/17	
Authorized by:			
Received by EQLF:			
Released to EQLL by:		09/01/17	1403
Received by EQLL:		09/01/17	1403

SPECIAL INSTRUCTIONS / COMMENTS:

*EQLF = Eqlab's Field Personnel.
*EQLL = Eqlab's Log-in Personnel.

Arrival Temperature: 3.0°C Signature:

Eqlab's general terms and conditions on reverse side of this document.

Attachment 2
EQLAB Laboratory Analytical Report #237917

QUALITY ASSURANCE REPORT

Prepared for:
ARCADIS CARIBE. PSC

Project:
INTERNO
Facility:
GUAYAMA PROJECT

Samples Received On:
September 01, 2017

W.O. #:
655-04-26

Folders:
237917

eqlab
ENVIRONMENTAL QUALITY LABORATORIES, INC.

September 28, 2017

ARCADIS CARIBE, PSC
 # 48 CITY VIEW PLAZA1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: Mr. ELVIN VARELA

Re: Quality Assurance Report for the samples received on September 01, 2017

Dear Mr. VARELA,

Enclosed you will find the Quality Assurance Report for the samples received on September 01, 2017. The QC data submitted reflects the precision and accuracy of the analyzed samples.

Please feel free to contact us if you require any further information.

Cordially,

Janet Gómez Rosario

Lic. Janet Gómez-Rosario
QA/QC Supervisor

TABLE OF CONTENTS

Section	Description
1	Quality Assurance Narrative
2	Laboratory Test Report
3	Analytical Test Results Quality Assurance Report

List of Appendices

Appendix	Description
A	Chain of Custody Documentation
B	Raw Data Worksheets
C	Proficiency Test (PT)

SECTION 1
QUALITY ASSURANCE NARRATIVE

QUALITY ASSURANCE NARRATIVE

Overview

On September 01, 2017, ENVIRONMENTAL QUALITY LABORATORIES, INC. (EQLab) received from ARCADIS CARIBE. PSC six samples, (five Ground Water and one DI Water) collected at the Guayama Project facility on September 01, 17, 2017 for the Inteno project. The sample was analyzed for EPA 8260B VOC. This sample was received in good condition, at 3.0°C and stored in a refrigerator at 4°C ± 2°C until the time of the analysis. The following table summarizes the sample sources and the EQ Lab sample number assigned upon receipt:

SAMPLE #	SOURCE	MATRIX
2721708	INF-20170901	GROUND WATER
2721709	EFF-20170901	GROUND WATER
2721710	EFF DUP-20170901	GROUND WATER
2721711	EFFMS-20170901	GROUND WATER
2721712	EFFMSD-20170901	GROUND WATER
2721713	TRIP BLANK	DI WATER

Quality Control Samples

QC samples were included with each batch of samples. Enclosed you will find a report summarizing precision and accuracy results obtained during the analysis of your sample. In the Appendices, you will find copies of the supporting documentation. The Appendix A contains the Chain of Custody Documentation, the Appendix B Raw Data Worksheets and Appendix C contains Proficiency Testing documentation.

Quality Control Remarks

The QC data has been released after being subjected to a series of inspections. General deviations are summarized below. Specific QC issues associated with your sample are:

Sample Collection: The sample was collected by the client personnel. EQ Lab did not find any deviation about this item.

Sample Management: EQ Lab did not find any deviation about this item.

Laboratory Test Report: EQ Lab did not find any deviation about this item.

Sample Preparation & Analysis: EQ Lab found the following deviations:

Sample Analysis: VOLATILE ORGANIC COMPOUNDS BY GAS CHROMATOGRAPHY/ MASS SPECTROMETRY (GC/MS) EPA 8260B VOC Rev. 2, December 1996

Run # 191525

Analysis Date: September 08, 2017

Sample	Analyte	Deviation	Recovery	Range
2727013/MS	1,1-Dichloropropene	00S	126%	83-110%
	1,2-Dibromo-3-chloropropane	00S	144%	67-140%
	2-Chloroethyl vinyl ether	00S	0%	10-178%
	Acrolein	00S	5.40%	47-157%
	Carbon tetrachloride	00S	139%	73-137%
	n-Butylbenzene	00S	120%	72-114%
	sec-Butylbenzene	00S	123%	64-114%
	tert-Butylbenzene	00S	122%	68-113%

Explanation: Possible Matrix Spike Interference for the above analytes. Recoveries in the associate LFB (2727011/LFB) are within the acceptable limits. See the following table:

Analysis Date: September 08, 2017

Sample	Analyte	Recovery	Range
2727011/LFB	1,1-Dichloropropene	105%	67-131%
	1,2-Dibromo-3-chloropropane	124%	66-139%
	2-Chloroethyl vinyl ether	96.5%	47-143%
	Acrolein	91.9%	40-153%
	Carbon tetrachloride	114%	69-134%
	n-Butylbenzene	102%	67-127%
	sec-Butylbenzene	104%	66-122%
	tert-Butylbenzene	103%	65-126%

Analysis Date: September 12, 2017

Sample	Analyte	Deviation	Recovery	Range
2721711/MS	1,2,4-Trimethylbenzene	00S	6.50%	52-141%
	1,3,5-Trimethylbenzene	00S	6.65%	61-125%
	2-Chloroethyl vinyl ether	00S	3.79%	10-178%
	Iodomethane	00S	3.27%	45-148%
	Naphthalene	00S	63.9%	66-135%
	Styrene	00S	2.55%	65-123%
	Vinyl Acetate	00S	15.2%	52-141%
	m,p-Xylene	00S	54.5%	56-145%
	trans-1,4-Dichloro-2-butene	00S	42.9%	47-129%
2721712/MSD	1,3,5-Trimethylbenzene	00S	30%	61-125%
	2-Chloroethyl vinyl ether	00S	0%	10-178%
	Iodomethane	00S	27.7%	45-148%
	Styrene	00S	0%	65-123%
	Vinyl Acetate	00S	20.9%	52-141%

Explanation: Possible Matrix Spike Interference for the above analytes. Recoveries in the associated LFB (2728424/LFB) are within the acceptable limits. See the following table:

Analysis Date: September 12, 2017

Sample	Analyte	Recovery	Range
2728424/LFB	1,2,4-Trimethylbenzene	98.5%	63-129%
	1,3,5-Trimethylbenzene	98.5%	68-123%
	2-Chloroethyl vinyl ether	98.8%	47-143%
	Iodomethane	96.3%	54-143%
	Naphthalene	101%	71-134%
	Styrene	99%	65-127%
	Vinyl Acetate	98%	53-144%
	m,p-Xylene	96.5%	63-130%
	trans-1,4-Dichloro-2-butene	99.7%	53-123%

Analysis Date: September 12, 2017

Sample	Analyte	Deviation	Recovery	Range
2721712/MSD	1,2,4-Trimethylbenzene	OORPD	176	0-20
	Naphthalene	OORPD	47.6	0-20
	m,p-Xylene	OORPD	62.7	0-20
	trans-1,4-Dichloro-2-butene	OORPD	82.9	0-20

Explanation: Possible problems with the sample collection.

General Comments

All the analyses were performed in accordance with the latest Environmental Protection Agency and Standard Method for the Examination of Water and Wastewater Approved Methodology. All the results associated with quality control samples were found within acceptable criteria established for these parameters.

After reviewing the documentation mentioned above we conclude that the data presented herein is valid and acceptable.

Formulas:

1. RPD = Relative Percent Difference

All Duplicates (DUP, MSD and LFBD) are calculated as follow:

$$RPD = \left\{ \frac{(\text{Final Result QC}) - (\text{Final Result Ref})}{\frac{(\text{Final Result QC}) + (\text{Final Result Ref})}{2}} \right\} \times 100$$

RPD is reported N.C. when the (value of Final Result) < 10X (value of MDL)

RPD General Acceptance criteria is (≤ 20%) for all matrices except Solid / Soil (≤ 40%)

$RPD_{Micro} = (\text{Log}_{10}\ \text{Final Result QC}) - (\text{Log}_{10}\ \text{Final Result Ref})$ which is expressed as Precision.

2. The % of Recovery is calculated as follow:

$$\%\ Rec = \left\{ \frac{(\text{Final Result QC})}{\text{Amount Added of QC}} \right\} \times 100$$

3. The % of Recovery for MS and MSD is calculated as follow:

$$\% \text{ Rec} = \left\{ \frac{\text{(Final Result QC)} - \text{(Final Result Ref)}}{\text{Amount Added of QC}} \right\} \text{X } 100$$

Marcelino Benitez

Prepared By:
Lcdo. Marcelino Benítez
QA/QC Coordinador Licensed

September 28, 2017
Date

Janet Gómez Rosario

Checked by:
Lcda. Janet Gómez
QA/QC Supervisor

September 28, 2017
Date

SECTION 2
LABORATORY TEST REPORT

eqlab
ENVIRONMENTAL QUALITY LABORATORIES, INC.

September 15, 2017

MR. ELVIN VARELA

ARCADIS CARIBE, PSC
LAS VISTAS SHOPPING CENTER VILLAGE #300
AVENIDA FELISA RINCON OFFICE 23
SAN JUAN PR 00926-5956

I hereby certify that the results reported for EQ Lab Samples from 2721708 to 2721713 have been reviewed by me and are correct as presented herein.

Dagmonia Richardo Rodriguez
Certified by Laboratory Director

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **INF-20170901**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab
ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721708**	Collected Date & Time:	**09/01/2017** 09:26	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017 14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	237917			Proposal Number:	20166 - 2

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
1,1,1,2-Tetrachloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
1,1,1-Trichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
1,1,2,2-Tetrachloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
1,1,2-Trichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
1,1-Dichloroethane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
1,1-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
1,1-Dichloropropene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
1,2,3-Trichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
1,2,3-Trichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
1,2,4-Trichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
1,2,4-Trimethylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
1,2-Dibromo-3-chloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
1,2-Dibromoethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
1,2-Dichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
1,2-Dichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
1,3,5-Trimethylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B

ND = Not Detected MCL = Maximum Contaminant Level BDL = Below Detection Limit DNI = Does Not Ignite MDL = Minimum Detection Limit N/A = Not Applicable
MO = Monitoring Only MRL = Minimum Reporting Level PTRL = Pattern Recognition Level. All results are calculated on a wet weight basis unless otherwise stated. All results relate only to this sample.
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ACCREDITED IN ACCORDANCE WITH nelac
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PRDOH Certified
EPA ID PR00014

ENVIRONMENTAL QUALITY LABORATORIES, INC.
60 E STREET, MINILLAS INDUSTRIAL PARK, BAYAMÓN, PR 00959
PO BOX 11458 SANTURCE, PR 00910-1458 TEL. (787) 288-6420 FAX (787) 288-6465 www.eqlab.com

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **INF-20170901**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721708**	Collected Date & Time:	**09/01/2017**	09:26	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017	14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C		Eqlab Rep.:	EGARCIA
Folder Number:	237917				Proposal Number:	20166 - 2

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
1,3-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
1,3-Dichloropropane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
1,4-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
1-Chlorohexane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
2,2-Dichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
2-Butanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
2-Chloroethyl vinyl ether	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
2-Chlorotoluene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
2-Hexanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
4-Chlorotoluene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
4-Isopropyltoluene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
4-Methyl-2-pentanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Acetone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Acrolein	EPA 8260B	ND	µg/L	U	25.0	75.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Acrylonitrile	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Benzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B

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MO = Monitoring Only MRL = Minimum Reporting Level PTRL = Pattern Recognition Level. All results are calculated on a wet weight basis unless otherwise stated. All results relate only to this sample.
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ACCREDITED IN ACCORDANCE WITH nelac

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PRDOH Certified
EPA ID PR00014

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **INF-20170901**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721708**	Collected Date & Time:	**09/01/2017** 09:26	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017 14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	237917			Proposal Number:	20166 - 2

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
Bromobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Bromochloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Bromodichloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Bromoform	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Bromomethane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Carbon disulfide	EPA 8260B	ND	µg/L	U	7.0	15.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Carbon tetrachloride	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Chlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Chloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Chloroform	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Chloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Dibromochloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Dibromomethane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Dichlorodifluoromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Dichloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Epichlorohydrin	EPA 8260B	ND	µg/L	U	30.0	75.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B

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EPA ID PR00014

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **INF-20170901**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab
ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721708**	Collected Date & Time:	**09/01/2017** 09:26	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017 **14:03**	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	237917			Proposal Number:	20166 - 2

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
Ethylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Hexachlorobutadiene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Iodomethane	EPA 8260B	ND	µg/L	U	8.0	15.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Isopropylbenzene	EPA 8260B	ND	µg/L	U	2.0	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Naphthalene	EPA 8260B	ND	µg/L	U	2.0	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Styrene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Tetrachloroethene	EPA 8260B	6.50	µg/L	--	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
+ Tetrahydrofuran	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Toluene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Trichloroethene	EPA 8260B	BDL	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Trichlorofluoromethane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Vinyl Acetate	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
Vinyl chloride	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
cis-1,2-Dichloroethene	EPA 8260B	BDL	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
cis-1,3-Dichloropropene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
m,p-Xylene	EPA 8260B	ND	µg/L	U	1.8	6.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B

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PRDOH Certified
EPA ID PR00014

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60 E STREET, MINILLAS INDUSTRIAL PARK, BAYAMÓN, PR 00959
PO BOX 11458 SANTURCE, PR 00910-1458 TEL. (787) 288-6420 FAX (787) 288-6465 www.eqlab.com

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **INF-20170901**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab
ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721708**	Collected Date & Time:	**09/01/2017** 09:26	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017 14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	237917			Proposal Number:	20166 - 2

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
n-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
n-Propylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
o-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.0	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
o-Xylene	EPA 8260B	ND	µg/L	U	2.3	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
sec-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
tert-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
trans-1,2-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
trans-1,3-Dichloropropene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B
trans-1,4-Dichloro-2-butene	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	17:45	NIVA	09/08/2017	--	EPA 5030B

SONIA PICHARDO RODRIGUEZ
Químico Licenciado
Estado Libre Asociado de Puerto Rico
LICENCIA NUM. 4538

Certified by Laboratory Director

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GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFF-20170901**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721709**	Collected Date & Time:	**09/01/2017**	10:07	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017	14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C		Eqlab Rep.:	EGARCIA
Folder Number:	237917				Proposal Number:	20166 - 2

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
1,1,1,2-Tetrachloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
1,1,1-Trichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
1,1,2,2-Tetrachloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
1,1,2-Trichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
1,1-Dichloroethane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
1,1-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
1,1-Dichloropropene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
1,2,3-Trichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
1,2,3-Trichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
1,2,4-Trichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
1,2,4-Trimethylbenzene	EPA 8260B	ND	µg/L	J,U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
1,2-Dibromo-3-chloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
1,2-Dibromoethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
1,2-Dichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
1,2-Dichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
1,3,5-Trimethylbenzene	EPA 8260B	ND	µg/L	J,U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B

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MO = Monitoring Only MRL = Minimum Reporting Level PTRL = Pattern Recognition Level. All results are calculated on a wet weight basis unless otherwise stated. All results relate only to this sample.
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Attn: MR. ELVIN VARELA
Source: **EFF-20170901**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721709**	Collected Date & Time:	**09/01/2017** 10:07	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017 14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	237917			Proposal Number:	20166 - 2

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
1,3-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
1,3-Dichloropropane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
1,4-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
1-Chlorohexane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
2,2-Dichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
2-Butanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
2-Chloroethyl vinyl ether	EPA 8260B	ND	µg/L	J,U	6.0	15.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
2-Chlorotoluene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
2-Hexanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
4-Chlorotoluene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
4-Isopropyltoluene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
4-Methyl-2-pentanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Acetone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Acrolein	EPA 8260B	ND	µg/L	U	25.0	75.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Acrylonitrile	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Benzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B

ND = Not Detected MCL = Maximum Contaminant Level BDL = Below Detection Limit DNI = Does Not Ignite MDL = Minimum Detection Limit N/A = Not Applicable
MO = Monitoring Only MRL = Minimum Reporting Level PTRL = Pattern Recognition Level. All results are calculated on a wet weight basis unless otherwise stated. All results relate only to this sample.
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ACCREDITED IN ACCORDANCE WITH nelac
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PRDOH Certified
EPA ID PR00014

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFF-20170901**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721709**	Collected Date & Time:	**09/01/2017** 10:07	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017 14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	237917			Proposal Number:	20166 - 2

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
Bromobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Bromochloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Bromodichloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Bromoform	EPA 8260B	1.20	µg/L	--	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Bromomethane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Carbon disulfide	EPA 8260B	ND	µg/L	U	7.0	15.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Carbon tetrachloride	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Chlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Chloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Chloroform	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Chloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Dibromochloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Dibromomethane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Dichlorodifluoromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Dichloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Epichlorohydrin	EPA 8260B	ND	µg/L	U	30.0	75.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B

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MO = Monitoring Only MRL = Minimum Reporting Level PTRL = Pattern Recognition Level. All results are calculated on a wet weight basis unless otherwise stated. All results relate only to this sample.
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ACCREDITED IN ACCORDANCE WITH nelac

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PRDOH Certified
EPA ID PR00014

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFF-20170901**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721709**	Collected Date & Time:	**09/01/2017** 10:07	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017 14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	237917			Proposal Number:	20166 - 2

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
Ethylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Hexachlorobutadiene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Iodomethane	EPA 8260B	ND	µg/L	J,U	8.0	15.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Isopropylbenzene	EPA 8260B	ND	µg/L	U	2.0	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Naphthalene	EPA 8260B	ND	µg/L	J,U	2.0	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Styrene	EPA 8260B	ND	µg/L	J,U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Tetrachloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
+ Tetrahydrofuran	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Toluene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Trichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Trichlorofluoromethane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Vinyl Acetate	EPA 8260B	ND	µg/L	J,U	6.0	15.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
Vinyl chloride	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
cis-1,2-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
cis-1,3-Dichloropropene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
m,p-Xylene	EPA 8260B	ND	µg/L	J,U	1.8	6.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B

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PRDOH Certified
EPA ID PR00014

ENVIRONMENTAL QUALITY LABORATORIES, INC.
60 E STREET, MINILLAS INDUSTRIAL PARK, BAYAMÓN, PR 00959
PO BOX 11458 SANTURCE, PR 00910-1458 TEL. (787) 288-6420 FAX (787) 288-6465 www.eqlab.com

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFF-20170901**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab
ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721709**	Collected Date & Time:	**09/01/2017** 10:07	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017 14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	237917			Proposal Number:	20166 - 2

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
n-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
n-Propylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
o-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.0	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
o-Xylene	EPA 8260B	ND	µg/L	U	2.3	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
sec-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
tert-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
trans-1,2-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
trans-1,3-Dichloropropene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B
trans-1,4-Dichloro-2-butene	EPA 8260B	ND	µg/L	J,U	6.0	15.0	--	09/08/2017	18:14	NIVA	09/08/2017	--	EPA 5030B

SONIA PICHARDO RODRIGUEZ
Químico Licenciado
Estado Libre Asociado de Puerto Rico
LICENCIA NUM. 4538

Certified Laboratory Director

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To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFF DUP-20170901**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab
ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721710**	Collected Date & Time:	**09/01/2017**	10:07	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017	**14:03**	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C		Eqlab Rep.:	EGARCIA
Folder Number:	237917				Proposal Number:	20166 - 2

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
1,1,1,2-Tetrachloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
1,1,1-Trichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
1,1,2,2-Tetrachloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
1,1,2-Trichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
1,1-Dichloroethane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
1,1-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
1,1-Dichloropropene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
1,2,3-Trichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
1,2,3-Trichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
1,2,4-Trichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
1,2,4-Trimethylbenzene	EPA 8260B	ND	µg/L	J,U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
1,2-Dibromo-3-chloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
1,2-Dibromoethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
1,2-Dichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
1,2-Dichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
1,3,5-Trimethylbenzene	EPA 8260B	ND	µg/L	J,U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B

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ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFF DUP-20170901**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab
ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721710**	Collected Date & Time:	**09/01/2017** 10:07	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017 14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	237917			Proposal Number:	20166 - 2

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
1,3-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
1,3-Dichloropropane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
1,4-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
1-Chlorohexane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
2,2-Dichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
2-Butanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
2-Chloroethyl vinyl ether	EPA 8260B	ND	µg/L	J,U	6.0	15.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
2-Chlorotoluene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
2-Hexanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
4-Chlorotoluene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
4-Isopropyltoluene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
4-Methyl-2-pentanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Acetone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Acrolein	EPA 8260B	ND	µg/L	U	25.0	75.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Acrylonitrile	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Benzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B

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MO = Monitoring Only MRL = Minimum Reporting Level PTRL = Pattern Recognition Level. All results are calculated on a wet weight basis unless otherwise stated. All results relate only to this sample.
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ACCREDITED IN ACCORDANCE WITH nelac

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Refer to eqlab certification number E87783 at www.eqlab.com.

PRDOH Certified
EPA ID PR00014

ENVIRONMENTAL QUALITY LABORATORIES, INC.
60 E STREET, MINILLAS INDUSTRIAL PARK, BAYAMÓN, PR 00959
PO BOX 11458 SANTURCE, PR 00910-1458 TEL. (787) 288-6420 FAX (787) 288-6465 www.eqlab.com

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFF DUP-20170901**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721710**	Collected Date & Time:	**09/01/2017** 10:07	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017 14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	237917			Proposal Number:	20166 - 2

Remarks:

Parameter	Method	Results	Units	DQ	Limits MDL	Limits MRL	Limits MCL	Analysis Date	Analysis Time	Analysis By	Prep Method Date	Prep Method By	Prep Method Method
Bromobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Bromochloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Bromodichloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Bromoform	EPA 8260B	BDL	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Bromomethane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Carbon disulfide	EPA 8260B	ND	µg/L	U	7.0	15.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Carbon tetrachloride	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Chlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Chloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Chloroform	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Chloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Dibromochloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Dibromomethane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Dichlorodifluoromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Dichloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Epichlorohydrin	EPA 8260B	ND	µg/L	U	30.0	75.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B

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EPA ID PR00014

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
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GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFF DUP-20170901**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721710**	Collected Date & Time:	**09/01/2017** 10:07	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017 14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	237917			Proposal Number:	20166 - 2

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
Ethylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Hexachlorobutadiene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Iodomethane	EPA 8260B	ND	µg/L	J,U	8.0	15.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Isopropylbenzene	EPA 8260B	ND	µg/L	U	2.0	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Naphthalene	EPA 8260B	ND	µg/L	J,U	2.0	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Styrene	EPA 8260B	ND	µg/L	J,U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Tetrachloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
+ Tetrahydrofuran	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Toluene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Trichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Trichlorofluoromethane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Vinyl Acetate	EPA 8260B	ND	µg/L	J,U	6.0	15.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
Vinyl chloride	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
cis-1,2-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
cis-1,3-Dichloropropene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
m,p-Xylene	EPA 8260B	ND	µg/L	J,U	1.8	6.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B

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GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFF DUP-20170901**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab
ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721710**	Collected Date & Time:	**09/01/2017** 10:07	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017 14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	237917			Proposal Number:	20166 - 2

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
n-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
n-Propylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
o-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.0	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
o-Xylene	EPA 8260B	ND	µg/L	U	2.3	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
sec-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
tert-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
trans-1,2-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
trans-1,3-Dichloropropene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B
trans-1,4-Dichloro-2-butene	EPA 8260B	ND	µg/L	J,U	6.0	15.0	--	09/08/2017	18:44	NIVA	09/08/2017	--	EPA 5030B

SONIA PICHARDO RODRIGUEZ
Químico Licenciado
Estado Libre Asociado de Puerto Rico
LICENCIA NUM. 2088

Certified Laboratory Director

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#48 CITY VIEW PLAZA 1, SUITE 401
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GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFFMS-20170901**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721711**	Collected Date & Time:	**09/01/2017**	10:07	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017	14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C		Eqlab Rep.:	EGARCIA
Folder Number:	237917				Proposal Number:	20166 - 2

Remarks:

Parameter	Method	Results	Units	DQ	Limits MDL	Limits MRL	Limits MCL	Analysis Date	Analysis Time	Analysis By	Prep Method Date	Prep Method By	Prep Method Method
1,1,1,2-Tetrachloroethane	EPA 8260B	89.5	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
1,1,1-Trichloroethane	EPA 8260B	93.9	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
1,1,2,2-Tetrachloroethane	EPA 8260B	86.0	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
1,1,2-Trichloroethane	EPA 8260B	87.0	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
1,1-Dichloroethane	EPA 8260B	90.4	%	--	2.0	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
1,1-Dichloroethene	EPA 8260B	85.8	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
1,1-Dichloropropene	EPA 8260B	90.2	%	--	1.4	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
1,2,3-Trichlorobenzene	EPA 8260B	85.2	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
1,2,3-Trichloropropane	EPA 8260B	84.9	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
1,2,4-Trichlorobenzene	EPA 8260B	86.7	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
1,2,4-Trimethylbenzene	EPA 8260B	6.50	%	Q	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
1,2-Dibromo-3-chloropropane	EPA 8260B	97.6	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
1,2-Dibromoethane	EPA 8260B	88.4	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
1,2-Dichloroethane	EPA 8260B	86.3	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
1,2-Dichloropropane	EPA 8260B	89.0	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
1,3,5-Trimethylbenzene	EPA 8260B	6.65	%	Q	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B

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Attn: MR. ELVIN VARELA
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GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab
ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721711**	Collected Date & Time:	**09/01/2017**	10:07	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017	14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C		Eqlab Rep.:	EGARCIA
Folder Number:	237917				Proposal Number:	20166 - 2

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
1,3-Dichlorobenzene	EPA 8260B	87.8	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
1,3-Dichloropropane	EPA 8260B	86.5	%	--	2.0	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
1,4-Dichlorobenzene	EPA 8260B	82.8	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
1-Chlorohexane	EPA 8260B	90.2	%	--	1.5	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
2,2-Dichloropropane	EPA 8260B	92.5	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
2-Butanone	EPA 8260B	85.1	%	--	6.0	15.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
2-Chloroethyl vinyl ether	EPA 8260B	3.79	%	Q	6.0	15.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
2-Chlorotoluene	EPA 8260B	88.3	%	--	1.4	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
2-Hexanone	EPA 8260B	89.8	%	--	6.0	15.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
4-Chlorotoluene	EPA 8260B	80.1	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
4-Isopropyltoluene	EPA 8260B	88.2	%	--	1.4	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
4-Methyl-2-pentanone	EPA 8260B	85.8	%	--	6.0	15.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
Acetone	EPA 8260B	78.7	%	--	6.0	15.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
Acrolein	EPA 8260B	64.4	%	--	25.0	75.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
Acrylonitrile	EPA 8260B	84.3	%	--	6.0	15.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
Benzene	EPA 8260B	90.2	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B

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GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721711**	Collected Date & Time:	**09/01/2017**	10:07	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017	14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C		Eqlab Rep.:	EGARCIA
Folder Number:	237917				Proposal Number:	20166 - 2

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
Bromobenzene	EPA 8260B	89.2	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
Bromochloromethane	EPA 8260B	105	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
Bromodichloromethane	EPA 8260B	91.6	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
Bromoform	EPA 8260B	95.7	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
Bromomethane	EPA 8260B	80.5	%	--	2.0	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
Carbon disulfide	EPA 8260B	89.7	%	--	7.0	15.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
Carbon tetrachloride	EPA 8260B	97.2	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
Chlorobenzene	EPA 8260B	87.1	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
Chloroethane	EPA 8260B	90.1	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
Chloroform	EPA 8260B	87.8	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
Chloromethane	EPA 8260B	127	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
Dibromochloromethane	EPA 8260B	96.2	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
Dibromomethane	EPA 8260B	89.0	%	--	1.5	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
Dichlorodifluoromethane	EPA 8260B	114	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
Dichloromethane	EPA 8260B	71.0	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
Epichlorohydrin	EPA 8260B	86.6	%	--	30.0	75.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B

ND = Not Detected MCL = Maximum Contaminant Level BDL = Below Detection Limit DNI = Does Not Ignite MDL = Minimum Detection Limit N/A = Not Applicable
MO = Monitoring Only MRL = Minimum Reporting Level PTRL = Pattern Recognition Level. All results are calculated on a wet weight basis unless otherwise stated. All results relate only to this sample.
+ = Parameter is not accredited under EQLab's NELAP Certification

ACCREDITED IN ACCORDANCE WITH nelac

The results presented herein meet all NELAC requirements.
Refer to eqlab certification number E87783 at www.eqlab.com.

PRDOH Certified
EPA ID PR00014

ENVIRONMENTAL QUALITY LABORATORIES, INC.
60 E STREET, MINILLAS INDUSTRIAL PARK, BAYAMÓN, PR 00959
PO BOX 11458 SANTURCE, PR 00910-1458 TEL. (787) 288-6420 FAX (787) 288-6465 www.eqlab.com

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFFMS-20170901**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721711**	Collected Date & Time:	**09/01/2017** 10:07	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017 14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	237917			Proposal Number:	20166 - 2

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
Ethylbenzene	EPA 8260B	89.0	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
Hexachlorobutadiene	EPA 8260B	84.9	%	--	1.4	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
Iodomethane	EPA 8260B	3.27	%	Q	8.0	15.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
Isopropylbenzene	EPA 8260B	92.8	%	--	2.0	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
Naphthalene	EPA 8260B	63.9	%	Q	2.0	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
Styrene	EPA 8260B	2.55	%	Q	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
Tetrachloroethene	EPA 8260B	91.6	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
Tetrahydrofuran	EPA 8260B	87.4	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
Toluene	EPA 8260B	89.4	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
Trichloroethene	EPA 8260B	91.4	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
Trichlorofluoromethane	EPA 8260B	112	%	--	1.5	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
Vinyl Acetate	EPA 8260B	15.2	%	Q	6.0	15.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
Vinyl chloride	EPA 8260B	108	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
cis-1,2-Dichloroethene	EPA 8260B	88.3	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
cis-1,3-Dichloropropene	EPA 8260B	93.3	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
m,p-Xylene	EPA 8260B	54.5	%	Q	1.8	6.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B

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MO = Monitoring Only MRL = Minimum Reporting Level PTRL = Pattern Recognition Level. All results are calculated on a wet weight basis unless otherwise stated. All results relate only to this sample.
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ACCREDITED IN ACCORDANCE WITH nela

The results presented herein meet all NELAC requirements.
Refer to eqlab certification number E87785 at www.eqlab.com.

PRDOH Certified
EPA ID PR00014

ENVIRONMENTAL QUALITY LABORATORIES, INC.
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To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFFMS-20170901**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab
ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721711**	Collected Date & Time:	**09/01/2017** 10:07	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017 14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	237917			Proposal Number:	20166 - 2

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
n-Butylbenzene	EPA 8260B	90.5	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
n-Propylbenzene	EPA 8260B	88.3	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
o-Dichlorobenzene	EPA 8260B	85.5	%	--	1.0	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
o-Xylene	EPA 8260B	86.3	%	--	2.3	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
sec-Butylbenzene	EPA 8260B	92.4	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
tert-Butylbenzene	EPA 8260B	94.1	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
trans-1,2-Dichloroethene	EPA 8260B	81.5	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
trans-1,3-Dichloropropene	EPA 8260B	96.7	%	--	1.2	3.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B
trans-1,4-Dichloro-2-butene	EPA 8260B	42.9	%	Q	6.0	15.0	--	09/12/2017	17:51	NIVA	09/08/2017	--	EPA 5030B

SONIA RICHARDO RODRIGUEZ
Químico Licenciado
Estado Libre Asociado de Puerto Rico
LICENCIA NUM. 2238

Certified Laboratory Director

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ACCREDITED IN ACCORDANCE WITH nelac
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PRDOH Certified
EPA ID PR00014

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To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFFMSD-20170901**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721712**	Collected Date & Time:	**09/01/2017**	10:07	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017	14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C		Eqlab Rep.:	EGARCIA
Folder Number:	237917				Proposal Number:	20166 - 2

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
1,1,1,2-Tetrachloroethane	EPA 8260B	106	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
1,1,1-Trichloroethane	EPA 8260B	109	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
1,1,2,2-Tetrachloroethane	EPA 8260B	99.3	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
1,1,2-Trichloroethane	EPA 8260B	99.7	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
1,1-Dichloroethane	EPA 8260B	105	%	--	2.0	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
1,1-Dichloroethene	EPA 8260B	99.3	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
1,1-Dichloropropene	EPA 8260B	106	%	--	1.4	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
1,2,3-Trichlorobenzene	EPA 8260B	99.8	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
1,2,3-Trichloropropane	EPA 8260B	97.9	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
1,2,4-Trichlorobenzene	EPA 8260B	101	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
1,2,4-Trimethylbenzene	EPA 8260B	104	%	Q	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
1,2-Dibromo-3-chloropropane	EPA 8260B	114	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
1,2-Dibromoethane	EPA 8260B	102	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
1,2-Dichloroethane	EPA 8260B	98.7	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
1,2-Dichloropropane	EPA 8260B	103	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
1,3,5-Trimethylbenzene	EPA 8260B	30.0	%	Q	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B

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ACCREDITED IN ACCORDANCE WITH nelac

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PRDOH Certified
EPA ID PR00014

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To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFFMSD-20170901**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721712**	Collected Date & Time:	**09/01/2017**	10:07	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017	14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C		Eqlab Rep.:	EGARCIA
Folder Number:	237917				Proposal Number:	20166 - 2

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
1,3-Dichlorobenzene	EPA 8260B	102	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
1,3-Dichloropropane	EPA 8260B	100	%	--	2.0	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
1,4-Dichlorobenzene	EPA 8260B	96.2	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
1-Chlorohexane	EPA 8260B	106	%	--	1.5	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
2,2-Dichloropropane	EPA 8260B	108	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
2-Butanone	EPA 8260B	88.4	%	--	6.0	15.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
2-Chloroethyl vinyl ether	EPA 8260B	0	%	Q	6.0	15.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
2-Chlorotoluene	EPA 8260B	102	%	--	1.4	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
2-Hexanone	EPA 8260B	102	%	--	6.0	15.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
4-Chlorotoluene	EPA 8260B	96.1	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
4-Isopropyltoluene	EPA 8260B	107	%	--	1.4	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
4-Methyl-2-pentanone	EPA 8260B	98.7	%	--	6.0	15.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
Acetone	EPA 8260B	87.5	%	--	6.0	15.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
Acrolein	EPA 8260B	74.0	%	--	25.0	75.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
Acrylonitrile	EPA 8260B	97.6	%	--	6.0	15.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
Benzene	EPA 8260B	104	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B

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GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFFMSD-20170901**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721712**	Collected Date & Time:	**09/01/2017**	10:07	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017	14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C		Eqlab Rep.:	EGARCIA
Folder Number:	237917				Proposal Number:	20166 - 2

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
Bromobenzene	EPA 8260B	104	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
Bromochloromethane	EPA 8260B	102	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
Bromodichloromethane	EPA 8260B	107	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
Bromoform	EPA 8260B	113	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
Bromomethane	EPA 8260B	76.0	%	--	2.0	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
Carbon disulfide	EPA 8260B	103	%	--	7.0	15.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
Carbon tetrachloride	EPA 8260B	112	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
Chlorobenzene	EPA 8260B	102	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
Chloroethane	EPA 8260B	110	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
Chloroform	EPA 8260B	102	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
Chloromethane	EPA 8260B	127	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
Dibromochloromethane	EPA 8260B	113	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
Dibromomethane	EPA 8260B	104	%	--	1.5	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
Dichlorodifluoromethane	EPA 8260B	122	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
Dichloromethane	EPA 8260B	81.6	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
Epichlorohydrin	EPA 8260B	98.5	%	--	30.0	75.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B

ND = Not Detected MCL = Maximum Contaminant Level BDL = Below Detection Limit DNI = Does Not Ignite MDL = Minimum Detection Limit N/A = Not Applicable
MO = Monitoring Only MRL = Minimum Reporting Level PTRL = Pattern Recognition Level. All results are calculated on a wet weight basis unless otherwise stated. All results relate only to this sample.
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ACCREDITED IN ACCORDANCE WITH nelac

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Refer to eqlab certification number E87783 at www.eqlab.com.

PRDOH Certified
EPA ID PR00014

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFFMSD-20170901**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721712**	Collected Date & Time:	**09/01/2017** 10:07	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017 14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	237917			Proposal Number:	20166 - 2

Remarks:

Parameter	Method	Results	Units	DQ	Limits MDL	Limits MRL	Limits MCL	Analysis Date	Analysis Time	Analysis By	Prep Method Date	Prep Method By	Prep Method Method
Ethylbenzene	EPA 8260B	104	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
Hexachlorobutadiene	EPA 8260B	102	%	--	1.4	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
Iodomethane	EPA 8260B	27.7	%	Q	8.0	15.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
Isopropylbenzene	EPA 8260B	110	%	--	2.0	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
Naphthalene	EPA 8260B	104	%	Q	2.0	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
Styrene	EPA 8260B	0	%	Q	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
Tetrachloroethene	EPA 8260B	104	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
Tetrahydrofuran	EPA 8260B	99.7	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
Toluene	EPA 8260B	104	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
Trichloroethene	EPA 8260B	106	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
Trichlorofluoromethane	EPA 8260B	119	%	--	1.5	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
Vinyl Acetate	EPA 8260B	20.9	%	Q	6.0	15.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
Vinyl chloride	EPA 8260B	121	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
cis-1,2-Dichloroethene	EPA 8260B	103	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
cis-1,3-Dichloropropene	EPA 8260B	108	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
m,p-Xylene	EPA 8260B	104	%	Q	1.8	6.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B

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ACCREDITED IN ACCORDANCE WITH nelac
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PRDOH Certified
EPA ID PR00014

ENVIRONMENTAL QUALITY LABORATORIES, INC.
60 E STREET, MINILLAS INDUSTRIAL PARK, BAYAMÓN, PR 00959
PO BOX 11458 SANTURCE, PR 00910-1458 TEL. (787) 288-6420 FAX (787) 288-6465 www.eqlab.com

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFFMSD-20170901**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721712**	Collected Date & Time:	**09/01/2017**	10:07	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017	**14:03**	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C		Eqlab Rep.:	EGARCIA
Folder Number:	237917				Proposal Number:	20166 - 2

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
n-Butylbenzene	EPA 8260B	107	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
n-Propylbenzene	EPA 8260B	107	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
o-Dichlorobenzene	EPA 8260B	99.4	%	--	1.0	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
o-Xylene	EPA 8260B	106	%	--	2.3	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
sec-Butylbenzene	EPA 8260B	109	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
tert-Butylbenzene	EPA 8260B	110	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
trans-1,2-Dichloroethene	EPA 8260B	95.2	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
trans-1,3-Dichloropropene	EPA 8260B	113	%	--	1.2	3.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B
trans-1,4-Dichloro-2-butene	EPA 8260B	104	%	Q	6.0	15.0	--	09/12/2017	18:24	NIVA	09/08/2017	--	EPA 5030B

SONIA PICHARDO RODRIGUEZ Químico Licenciado Estado Libre Asociado de Puerto Rico LICENCIA NUM. 4

Certified Laboratory Director

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To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **TRIP BLANK**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: DI WATER - Grab
Client Ref. #: N/A

ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721713**	Collected Date & Time:	**09/01/2017**	09:00	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017	14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C		Eqlab Rep.:	EGARCIA
Folder Number:	237917				Proposal Number:	20166 - 2

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
1,1,1,2-Tetrachloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
1,1,1-Trichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
1,1,2,2-Tetrachloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
1,1,2-Trichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
1,1-Dichloroethane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
1,1-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
1,1-Dichloropropene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
1,2,3-Trichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
1,2,3-Trichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
1,2,4-Trichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
1,2,4-Trimethylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
1,2-Dibromo-3-chloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
1,2-Dibromoethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
1,2-Dichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
1,2-Dichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
1,3,5-Trimethylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B

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PRDOH Certified
EPA ID PR00014

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **TRIP BLANK**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: DI WATER - Grab
Client Ref. #: N/A

ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721713**	Collected Date & Time:	**09/01/2017** 09:00	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017 14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	237917			Proposal Number:	20166 - 2

Remarks:

Parameter	Method	Results	Units	DQ	Limits MDL	Limits MRL	Limits MCL	Analysis Date	Analysis Time	Analysis By	Prep Method Date	Prep Method By	Prep Method Method
1,3-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
1,3-Dichloropropane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
1,4-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
1-Chlorohexane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
2,2-Dichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
2-Butanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
2-Chloroethyl vinyl ether	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
2-Chlorotoluene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
2-Hexanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
4-Chlorotoluene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
4-Isopropyltoluene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
4-Methyl-2-pentanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
Acetone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
Acrolein	EPA 8260B	ND	µg/L	U	25.0	75.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
Acrylonitrile	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
Benzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B

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To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **TRIP BLANK**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: DI WATER - Grab
Client Ref. #: N/A

ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721713**	Collected Date & Time:	**09/01/2017** 09:00	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017 14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	237917			Proposal Number:	20166 - 2

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
Bromobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
Bromochloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
Bromodichloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
Bromoform	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
Bromomethane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
Carbon disulfide	EPA 8260B	ND	µg/L	U	7.0	15.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
Carbon tetrachloride	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
Chlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
Chloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
Chloroform	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
Chloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
Dibromochloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
Dibromomethane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
Dichlorodifluoromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
Dichloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
Epichlorohydrin	EPA 8260B	ND	µg/L	U	30.0	75.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B

ND = Not Detected MCL = Maximum Contaminant Level BDL = Below Detection Limit DNI = Does Not Ignite MDL = Minimum Detection Limit N/A = Not Applicable
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Attn: MR. ELVIN VARELA
Source: **TRIP BLANK**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: DI WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721713**	Collected Date & Time:	**09/01/2017** 09:00	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017 14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	237917			Proposal Number:	20166 - 2

Remarks:

	Parameter	Method	Results	Units	DQ	Limits MDL	Limits MRL	Limits MCL	Analysis Date	Analysis Time	Analysis By	Prep Method Date	Prep Method By	Prep Method Method
	Ethylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
	Hexachlorobutadiene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
	Iodomethane	EPA 8260B	ND	µg/L	U	8.0	15.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
	Isopropylbenzene	EPA 8260B	ND	µg/L	U	2.0	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
	Naphthalene	EPA 8260B	ND	µg/L	U	2.0	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
	Styrene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
	Tetrachloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
+	Tetrahydrofuran	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
	Toluene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
	Trichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
	Trichlorofluoromethane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
	Vinyl Acetate	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
	Vinyl chloride	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
	cis-1,2-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
	cis-1,3-Dichloropropene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
	m,p-Xylene	EPA 8260B	ND	µg/L	U	1.8	6.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B

ND = Not Detected MCL = Maximum Contaminant Level BDL = Below Detection Limit DNI = Does Not Ignite MDL = Minimum Detection Limit N/A = Not Applicable
MO = Monitoring Only MRL = Minimum Reporting Level PTRL = Pattern Recognition Level All results are calculated on a wet weight basis unless otherwise stated. All results relate only to this sample.
+ = Parameter is not accredited under EQLab's NELAP Certification

ACCREDITED IN ACCORDANCE WITH nelac

The results presented herein meet all NELAC requirements.
Refer to eqlab certification number E87783 at www.eqlab.com.

PRDOH Certified
EPA ID PR00014

ENVIRONMENTAL QUALITY LABORATORIES, INC.
60 E STREET, MINILLAS INDUSTRIAL PARK, BAYAMÓN, PR 00959
PO BOX 11458 SANTURCE, PR 00910-1458 TEL. (787) 288-6420 FAX (787) 288-6465 www.eqlab.com

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **TRIP BLANK**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: DI WATER - Grab
Client Ref. #: N/A

eqlab
ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2721713**	Collected Date & Time:	**09/01/2017** 09:00	Date of Report:	09/15/2017
Work Order:	655-04-26	Received Date & Time:	09/01/2017 14:03	Collected By:	ACOLON
Delivery Slip:	2017-07756	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	237917			Proposal Number:	20166 - 2

Remarks:

Parameter	Method	Results	Units	DQ	Limits MDL	Limits MRL	Limits MCL	Analysis Date	Analysis Time	Analysis By	Prep Method Date	Prep Method By	Prep Method Method
n-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
n-Propylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
o-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.0	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
o-Xylene	EPA 8260B	ND	µg/L	U	2.3	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
sec-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
tert-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
trans-1,2-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
trans-1,3-Dichloropropene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B
trans-1,4-Dichloro-2-butene	EPA 8260B	ND	µg/L	U	6.0	15.0	--	09/08/2017	16:44	NIVA	09/08/2017	--	EPA 5030B

SONIA PICHARDO RODRIGUEZ · Químico Licenciado · Estado Libre Asociado de Puerto Rico · LICENCIA NUM. 5338

Certifi[illegible]ory Director

ND = Not Detected MCL = Maximum Contaminant Level BDL = Below Detection Limit DNI = Does Not Ignite MDL = Minimum Detection Limit N/A = Not Applicable
MO = Monitoring Only MRL = Minimum Reporting Level PTRL = Pattern Recognition Level. All results are calculated on a wet weight basis unless otherwise stated. All results relate only to this sample.
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The results presented herein meet all NELAC requirements.
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SECTION 3
ANALYTICAL TEST RESULTS
QUALITY ASSURANCE REPORT

Analytical Test Results Quality Assurance Report

W. O. # 655-04-26 Date: September 28, 2017

1.0 Samples Analyzed:

EQ LAB SAMPLE #	DATE COLLECTED	DATE RECEIVED
2721708 to 2721713	September 01, 2017	September 01, 2017

2.0 Instrumentation:

PARAMETER	INSTRUMENTATION USED
EPA 8260B EXT	V8 – AG7890MS Gas Chromatograph with a Mass Selective Detector

3.0 Methodology:

PARAMETER	METHOD	ANALISIS DATE	ANALYST
EPA 8260B VOC	EPA 8260B	September 08, 2017 September 12, 2017	N. Villanueva

Lcdo Marcelino Benítez
QA/QC Coordinador Licensed

QUALITY CONTROL SUMMARY

EPA 8260B VOC - Run #191525

2727005 - LRB
Reference Sample Number is: 2721712

Analyte Name	Reference Result	QC Result	DQ	Units	MDL	MRL	Accuracy A/A	Accuracy Rec. %	Acceptance Criteria Low Limit	Acceptance Criteria High Limit	Precision RPD	Acceptance Criteria High Limit	Analysis Date	Analysis Time	Analysis By
1,1,1,2-Tetrachloroethane	21.1	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
1,1,1-Trichloroethane	21.7	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
1,1,2,2-Tetrachloroethane	19.9	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
1,1,2-Trichloroethane	19.9	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
1,1-Dichloroethane	20.9	N.D	U	µg/L	2.0	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
1,1-Dichloroethene	19.9	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
1,1-Dichloropropene	21.3	N.D	U	µg/L	1.4	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
1,2,3-Trichlorobenzene	20.0	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
1,2,3-Trichloropropane	19.6	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
1,2,4-Trichlorobenzene	20.3	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
1,2,4-Trimethylbenzene	20.7	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
1,2-Dibromo-3-chloropropane	22.8	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
1,2-Dibromoethane	20.4	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
1,2-Dichloroethane	19.7	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
1,2-Dichloropropane	20.7	N.D	U	µg/L	2.0	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
1,3,5-Trimethylbenzene	6.0	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
1,3-Dichlorobenzene	20.4	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
1,3-Dichloropropane	20.0	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
1,4-Dichlorobenzene	19.2	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
1-Chlorohexane	21.3	N.D	U	µg/L	1.5	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
2,2-Dichloropropane	21.6	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
2-Butanone	88.4	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
2-Chloroethyl vinyl ether	BDL	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
2-Chlorotoluene	20.4	N.D	U	µg/L	1.4	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA

QUALITY CONTROL SUMMARY

2-Hexanone	102.2	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
4-Bromofluorobenzene-SURR	20.3	19.7	--	µg/L	N/A	N/A	20.0	98.7	79	121	N/A	N/A	09/08/17	14:44	NIVA
4-Chlorotoluene	19.2	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
4-Isopropyltoluene	21.4	N.D	U	µg/L	1.4	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
4-Methyl-2-pentanone	98.7	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
Acetone	87.5	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
Acrolein	370.0	N.D	U	µg/L	25.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
Acrylonitrile	97.6	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
Benzene	20.8	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
Bromobenzene	20.9	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
Bromochloromethane	20.3	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
Bromodichloromethane	21.4	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
Bromoform	23.8	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
Bromomethane	15.2	N.D	U	µg/L	2.0	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
Carbon disulfide	102.9	N.D	U	µg/L	7.0	15.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
Carbon tetrachloride	22.4	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
Chlorobenzene	20.4	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
Chloroethane	21.9	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
Chloroform	20.4	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
Chloromethane	25.3	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
Dibromochloromethane	22.7	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
Dibromofluoromethane-SURR	19.9	20.0	--	µg/L	N/A	N/A	20.0	100	83	120	N/A	N/A	09/08/17	14:44	NIVA
Dibromomethane	20.7	N.D	U	µg/L	1.5	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
Dichlorodifluoromethane	24.3	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
Dichloromethane	16.3	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
Epichlorohydrin	492.4	N.D	U	µg/L	30.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
Ethylbenzene	20.9	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
Hexachlorobutadiene	20.4	N.D	U	µg/L	1.4	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
Iodomethane	27.7	N.D	U	µg/L	8.0	15.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
Isopropylbenzene	21.9	N.D	U	µg/L	2.0	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
Naphthalene	20.8	N.D	U	µg/L	2.0	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA

QUALITY CONTROL SUMMARY

Styrene	BDL	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
Tetrachloroethene	20.9	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
Tetrahydrofuran	19.9	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
Toluene	20.8	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
Toluene-d8-SURR	20.2	19.5	--	µg/L	N/A	N/A	20.0	97.6	80	116	N/A	N/A	09/08/17	14:44	NIVA
Trichloroethene	21.2	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
Trichlorofluoromethane	23.9	N.D	U	µg/L	1.5	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
Vinyl Acetate	20.9	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
Vinyl chloride	24.3	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
cis-1,2-Dichloroethene	20.6	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
cis-1,3-Dichloropropene	21.7	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
m,p-Xylene	41.7	N.D	U	µg/L	1.8	6.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
n-Butylbenzene	21.3	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
n-Propylbenzene	21.5	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
o-Dichlorobenzene	19.9	N.D	U	µg/L	1.0	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
o-Xylene	21.1	N.D	U	µg/L	2.3	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
sec-Butylbenzene	21.8	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
tert-Butylbenzene	22.0	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
trans-1,2-Dichloroethene	19.0	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
trans-1,3-Dichloropropene	22.6	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA
trans-1,4-Dichloro-2-butene	103.6	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N/A	N/A	09/08/17	14:44	NIVA

2727006 - ICV
Reference Sample Number is: 2721712

							Accuracy				Precision		Analysis		
									Acceptance Criteria			Acceptance Criteria			
Analyte Name	**Reference Result**	**QC Result**	**DQ**	**Units**	**MDL**	**MRL**	**A/A**	**Rec. %**	**Low Limit**	**High Limit**	**RPD**	**High Limit**	**Date**	**Time**	**By**
1,1,1,2-Tetrachloroethane	21.1	19.0	--	µg/L	1.2	3.0	20.0	94.8	80	120	N/A	N/A	09/08/17	16:13	NIVA
1,1,1-Trichloroethane	21.7	20.1	--	µg/L	1.2	3.0	20.0	101	80	120	N/A	N/A	09/08/17	16:13	NIVA
1,1,2,2-Tetrachloroethane	19.9	17.4	--	µg/L	1.2	3.0	20.0	86.9	80	120	N/A	N/A	09/08/17	16:13	NIVA
1,1,2-Trichloroethane	19.9	17.9	--	µg/L	1.2	3.0	20.0	89.6	80	120	N/A	N/A	09/08/17	16:13	NIVA
1,1-Dichloroethane	20.9	18.8	--	µg/L	2.0	3.0	20.0	94.1	80	120	N/A	N/A	09/08/17	16:13	NIVA

QUALITY CONTROL SUMMARY

1,1-Dichloroethene	19.9	19.3	--	µg/L	1.2	3.0	20.0	96.3	80	120	N/A	N/A	09/08/17	16:13	NIVA
1,1-Dichloropropene	21.3	20.6	--	µg/L	1.4	3.0	20.0	103	80	120	N/A	N/A	09/08/17	16:13	NIVA
1,2,3-Trichlorobenzene	20.0	18.1	--	µg/L	1.2	3.0	20.0	90.5	80	120	N/A	N/A	09/08/17	16:13	NIVA
1,2,3-Trichloropropane	19.6	17.4	--	µg/L	1.2	3.0	20.0	86.8	80	120	N/A	N/A	09/08/17	16:13	NIVA
1,2,4-Trichlorobenzene	20.3	18.8	--	µg/L	1.2	3.0	20.0	93.9	80	120	N/A	N/A	09/08/17	16:13	NIVA
1,2,4-Trimethylbenzene	20.7	19.9	--	µg/L	1.2	3.0	20.0	99.7	80	120	N/A	N/A	09/08/17	16:13	NIVA
1,2-Dibromo-3-chloropropane	22.8	20.9	--	µg/L	1.2	3.0	20.0	104	80	120	N/A	N/A	09/08/17	16:13	NIVA
1,2-Dibromoethane	20.4	17.9	--	µg/L	1.2	3.0	20.0	89.6	80	120	N/A	N/A	09/08/17	16:13	NIVA
1,2-Dichloroethane	19.7	17.8	--	µg/L	1.2	3.0	20.0	89.0	80	120	N/A	N/A	09/08/17	16:13	NIVA
1,2-Dichloropropane	20.7	18.7	--	µg/L	2.0	3.0	20.0	93.4	80	120	N/A	N/A	09/08/17	16:13	NIVA
1,3,5-Trimethylbenzene	6.0	20.3	--	µg/L	1.2	3.0	20.0	101	80	120	N/A	N/A	09/08/17	16:13	NIVA
1,3-Dichlorobenzene	20.4	18.8	--	µg/L	1.2	3.0	20.0	93.8	80	120	N/A	N/A	09/08/17	16:13	NIVA
1,3-Dichloropropane	20.0	17.9	--	µg/L	1.2	3.0	20.0	89.4	80	120	N/A	N/A	09/08/17	16:13	NIVA
1,4-Dichlorobenzene	19.2	18.1	--	µg/L	1.2	3.0	20.0	90.5	80	120	N/A	N/A	09/08/17	16:13	NIVA
1-Chlorohexane	21.3	20.5	--	µg/L	1.5	3.0	20.0	103	80	120	N/A	N/A	09/08/17	16:13	NIVA
2,2-Dichloropropane	21.6	21.1	--	µg/L	1.2	3.0	20.0	106	80	120	N/A	N/A	09/08/17	16:13	NIVA
2-Butanone	88.4	86.2	--	µg/L	6.0	15.0	100	86.2	80	120	N/A	N/A	09/08/17	16:13	NIVA
2-Chloroethyl vinyl ether	BDL	111.1	--	µg/L	6.0	15.0	100	111	80	120	N/A	N/A	09/08/17	16:13	NIVA
2-Chlorotoluene	20.4	19.4	--	µg/L	1.4	3.0	20.0	97.0	80	120	N/A	N/A	09/08/17	16:13	NIVA
2-Hexanone	102.2	87.7	--	µg/L	6.0	15.0	100	87.7	80	120	N/A	N/A	09/08/17	16:13	NIVA
4-Bromofluorobenzene-SURR	20.3	20.2	--	µg/L	N/A	N/A	20.0	101	79	121	N/A	N/A	09/08/17	16:13	NIVA
4-Chlorotoluene	19.2	19.3	--	µg/L	1.2	3.0	20.0	96.4	80	120	N/A	N/A	09/08/17	16:13	NIVA
4-Isopropyltoluene	21.4	20.8	--	µg/L	1.4	3.0	20.0	104	80	120	N/A	N/A	09/08/17	16:13	NIVA
4-Methyl-2-pentanone	98.7	87.0	--	µg/L	6.0	15.0	100	87.0	80	120	N/A	N/A	09/08/17	16:13	NIVA
Acetone	87.5	96.6	--	µg/L	6.0	15.0	100	96.6	80	120	N/A	N/A	09/08/17	16:13	NIVA
Acrolein	370.0	441.3	--	µg/L	25.0	75.0	500	88.3	80	120	N/A	N/A	09/08/17	16:13	NIVA
Acrylonitrile	97.6	85.2	--	µg/L	6.0	15.0	100	85.2	80	120	N/A	N/A	09/08/17	16:13	NIVA
Benzene	20.8	19.0	--	µg/L	1.2	3.0	20.0	95.1	80	120	N/A	N/A	09/08/17	16:13	NIVA
Bromobenzene	20.9	19.0	--	µg/L	1.2	3.0	20.0	95.0	80	120	N/A	N/A	09/08/17	16:13	NIVA
Bromochloromethane	20.3	19.2	--	µg/L	1.2	3.0	20.0	95.9	80	120	N/A	N/A	09/08/17	16:13	NIVA
Bromodichloromethane	21.4	18.6	--	µg/L	1.2	3.0	20.0	92.8	80	120	N/A	N/A	09/08/17	16:13	NIVA

QUALITY CONTROL SUMMARY

Bromoform	23.8	18.0	--	µg/L	1.2	3.0	20.0	90.0	80	120	N/A	N/A	09/08/17	16:13	NIVA
Bromomethane	15.2	16.7	--	µg/L	2.0	3.0	20.0	83.5	80	120	N/A	N/A	09/08/17	16:13	NIVA
Carbon disulfide	102.9	99.1	--	µg/L	7.0	15.0	100	99.1	80	120	N/A	N/A	09/08/17	16:13	NIVA
Carbon tetrachloride	22.4	20.8	--	µg/L	1.2	3.0	20.0	104	80	120	N/A	N/A	09/08/17	16:13	NIVA
Chlorobenzene	20.4	18.8	--	µg/L	1.2	3.0	20.0	93.8	80	120	N/A	N/A	09/08/17	16:13	NIVA
Chloroethane	21.9	18.2	--	µg/L	1.2	3.0	20.0	91.2	80	120	N/A	N/A	09/08/17	16:13	NIVA
Chloroform	20.4	18.6	--	µg/L	1.2	3.0	20.0	92.8	80	120	N/A	N/A	09/08/17	16:13	NIVA
Chloromethane	25.3	16.2	--	µg/L	1.2	3.0	20.0	81.2	80	120	N/A	N/A	09/08/17	16:13	NIVA
Dibromochloromethane	22.7	18.4	--	µg/L	1.2	3.0	20.0	92.2	80	120	N/A	N/A	09/08/17	16:13	NIVA
Dibromofluoromethane-SURR	19.9	19.7	--	µg/L	N/A	N/A	20.0	98.5	83	120	N/A	N/A	09/08/17	16:13	NIVA
Dibromomethane	20.7	18.4	--	µg/L	1.5	3.0	20.0	91.9	80	120	N/A	N/A	09/08/17	16:13	NIVA
Dichlorodifluoromethane	24.3	19.5	--	µg/L	1.2	3.0	20.0	97.4	80	120	N/A	N/A	09/08/17	16:13	NIVA
Dichloromethane	16.3	17.0	--	µg/L	1.2	3.0	20.0	85.0	80	120	N/A	N/A	09/08/17	16:13	NIVA
Epichlorohydrin	492.4	438.6	--	µg/L	30.0	75.0	500	87.7	80	120	N/A	N/A	09/08/17	16:13	NIVA
Ethylbenzene	20.9	19.8	--	µg/L	1.2	3.0	20.0	99.2	80	120	N/A	N/A	09/08/17	16:13	NIVA
Hexachlorobutadiene	20.4	20.0	--	µg/L	1.4	3.0	20.0	100	80	120	N/A	N/A	09/08/17	16:13	NIVA
Iodomethane	27.7	97.3	--	µg/L	8.0	15.0	100	97.3	80	120	N/A	N/A	09/08/17	16:13	NIVA
Isopropylbenzene	21.9	20.8	--	µg/L	2.0	3.0	20.0	104	80	120	N/A	N/A	09/08/17	16:13	NIVA
Naphthalene	20.8	18.4	--	µg/L	2.0	3.0	20.0	92.0	80	120	N/A	N/A	09/08/17	16:13	NIVA
Styrene	BDL	19.5	--	µg/L	1.2	3.0	20.0	97.3	80	120	N/A	N/A	09/08/17	16:13	NIVA
Tetrachloroethene	20.9	20.5	--	µg/L	1.2	3.0	20.0	103	80	120	N/A	N/A	09/08/17	16:13	NIVA
Tetrahydrofuran	19.9	17.3	--	µg/L	1.2	3.0	20.0	86.4	80	120	N/A	N/A	09/08/17	16:13	NIVA
Toluene	20.8	19.3	--	µg/L	1.2	3.0	20.0	96.3	80	120	N/A	N/A	09/08/17	16:13	NIVA
Toluene-d8-SURR	20.2	19.9	--	µg/L	N/A	N/A	20.0	99.7	80	116	N/A	N/A	09/08/17	16:13	NIVA
Trichloroethene	21.2	19.6	--	µg/L	1.2	3.0	20.0	97.8	80	120	N/A	N/A	09/08/17	16:13	NIVA
Trichlorofluoromethane	23.9	21.7	--	µg/L	1.5	3.0	20.0	109	80	120	N/A	N/A	09/08/17	16:13	NIVA
Vinyl Acetate	20.9	89.9	--	µg/L	6.0	15.0	100	89.9	80	120	N/A	N/A	09/08/17	16:13	NIVA
Vinyl chloride	24.3	21.6	--	µg/L	1.2	3.0	20.0	108	80	120	N/A	N/A	09/08/17	16:13	NIVA
cis-1,2-Dichloroethene	20.6	18.9	--	µg/L	1.2	3.0	20.0	94.7	80	120	N/A	N/A	09/08/17	16:13	NIVA
cis-1,3-Dichloropropene	21.7	19.2	--	µg/L	1.2	3.0	20.0	96.0	80	120	N/A	N/A	09/08/17	16:13	NIVA
m,p-Xylene	41.7	39.6	--	µg/L	1.8	6.0	40.0	98.9	80	120	N/A	N/A	09/08/17	16:13	NIVA

QUALITY CONTROL SUMMARY

n-Butylbenzene	21.3	21.0	--	µg/L	1.2	3.0	20.0	105	80	120	N/A	N/A	09/08/17	16:13	NIVA
n-Propylbenzene	21.5	20.4	--	µg/L	1.2	3.0	20.0	102	80	120	N/A	N/A	09/08/17	16:13	NIVA
o-Dichlorobenzene	19.9	18.2	--	µg/L	1.0	3.0	20.0	91.0	80	120	N/A	N/A	09/08/17	16:13	NIVA
o-Xylene	21.1	19.6	--	µg/L	2.3	3.0	20.0	97.9	80	120	N/A	N/A	09/08/17	16:13	NIVA
sec-Butylbenzene	21.8	21.1	--	µg/L	1.2	3.0	20.0	106	80	120	N/A	N/A	09/08/17	16:13	NIVA
tert-Butylbenzene	22.0	20.7	--	µg/L	1.2	3.0	20.0	104	80	120	N/A	N/A	09/08/17	16:13	NIVA
trans-1,2-Dichloroethene	19.0	19.4	--	µg/L	1.2	3.0	20.0	96.9	80	120	N/A	N/A	09/08/17	16:13	NIVA
trans-1,3-Dichloropropene	22.6	19.3	--	µg/L	1.2	3.0	20.0	96.5	80	120	N/A	N/A	09/08/17	16:13	NIVA
trans-1,4-Dichloro-2-butene	103.6	92.0	--	µg/L	6.0	15.0	100	92.0	80	120	N/A	N/A	09/08/17	16:13	NIVA

2721710 - DUP
Reference Sample Number is: 2721709

							Accuracy				Precision				
									Acceptance Criteria			Acceptance Criteria	Analysis		
Analyte Name	**Reference Result**	**QC Result**	**DQ**	**Units**	**MDL**	**MRL**	**A/A**	**Rec. %**	**Low Limit**	**High Limit**	**RPD**	**High Limit**	**Date**	**Time**	**By**
1,1,1,2-Tetrachloroethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
1,1,1-Trichloroethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
1,1,2,2-Tetrachloroethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
1,1,2-Trichloroethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
1,1-Dichloroethane	N.D	N.D	U	µg/L	2.0	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
1,1-Dichloroethene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
1,1-Dichloropropene	N.D	N.D	U	µg/L	1.4	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
1,2,3-Trichlorobenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
1,2,3-Trichloropropane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
1,2,4-Trichlorobenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
1,2,4-Trimethylbenzene	N.D	N.D	J,U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
1,2-Dibromo-3-chloropropane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
1,2-Dibromoethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
1,2-Dichloroethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
1,2-Dichloropropane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
1,3,5-Trimethylbenzene	N.D	N.D	J,U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
1,3-Dichlorobenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA

QUALITY CONTROL SUMMARY

1,3-Dichloropropane	N.D	N.D	U	µg/L	2.0	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
1,4-Dichlorobenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
1-Chlorohexane	N.D	N.D	U	µg/L	1.5	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
2,2-Dichloropropane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
2-Butanone	N.D	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
2-Chloroethyl vinyl ether	N.D	N.D	J,U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
2-Chlorotoluene	N.D	N.D	U	µg/L	1.4	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
2-Hexanone	N.D	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
4-Bromofluorobenzene-SURR	19.7	19.8	--	µg/L	N/A	N/A	20.00	98.9	71	125	N/A	N/A	09/08/17	18:44	NIVA
4-Chlorotoluene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
4-Isopropyltoluene	N.D	N.D	U	µg/L	1.4	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
4-Methyl-2-pentanone	N.D	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
Acetone	N.D	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
Acrolein	N.D	N.D	U	µg/L	25.0	75.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
Acrylonitrile	N.D	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
Benzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
Bromobenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
Bromochloromethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
Bromodichloromethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
Bromoform	1.2	BDL	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
Bromomethane	N.D	N.D	U	µg/L	2.0	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
Carbon disulfide	N.D	N.D	U	µg/L	7.0	15.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
Carbon tetrachloride	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
Chlorobenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
Chloroethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
Chloroform	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
Chloromethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
Dibromochloromethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
Dibromofluoromethane-SURR	20.1	20.0	--	µg/L	N/A	N/A	20.00	99.8	76	123	N/A	N/A	09/08/17	18:44	NIVA
Dibromomethane	N.D	N.D	U	µg/L	1.5	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
Dichlorodifluoromethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA

QUALITY CONTROL SUMMARY

Dichloromethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
Epichlorohydrin	N.D	N.D	U	µg/L	30.0	75.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
Ethylbenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
Hexachlorobutadiene	N.D	N.D	U	µg/L	1.4	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
Iodomethane	N.D	N.D	J,U	µg/L	8.0	15.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
Isopropylbenzene	N.D	N.D	U	µg/L	2.0	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
Naphthalene	N.D	N.D	J,U	µg/L	2.0	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
Styrene	N.D	N.D	J,U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
Tetrachloroethene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
Tetrahydrofuran	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
Toluene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
Toluene-d8-SURR	19.8	19.7	--	µg/L	N/A	N/A	20.00	98.6	77	122	N/A	N/A	09/08/17	18:44	NIVA
Trichloroethene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
Trichlorofluoromethane	N.D	N.D	U	µg/L	1.5	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
Vinyl Acetate	N.D	N.D	J,U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
Vinyl chloride	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
cis-1,2-Dichloroethene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
cis-1,3-Dichloropropene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
m,p-Xylene	N.D	N.D	J,U	µg/L	1.8	6.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
n-Butylbenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
n-Propylbenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
o-Dichlorobenzene	N.D	N.D	U	µg/L	1.0	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
o-Xylene	N.D	N.D	U	µg/L	2.3	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
sec-Butylbenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
tert-Butylbenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
trans-1,2-Dichloroethene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
trans-1,3-Dichloropropene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA
trans-1,4-Dichloro-2-butene	N.D	N.D	J,U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N.C.	N/A	09/08/17	18:44	NIVA

QUALITY CONTROL SUMMARY

2727009 - DUP
Reference Sample Number is: 2721712

Analyte Name	Reference Result	QC Result	DQ	Units	MDL	MRL	Accuracy A/A	Accuracy Rec. %	Acceptance Criteria Low Limit	Acceptance Criteria High Limit	Precision RPD	Acceptance Criteria High Limit	Analysis Date	Analysis Time	Analysis By
1,1,1,2-Tetrachloroethane	21.1	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
1,1,1-Trichloroethane	21.7	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
1,1,2,2-Tetrachloroethane	19.9	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
1,1,2-Trichloroethane	19.9	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
1,1-Dichloroethane	20.9	N.D	U	µg/L	2.0	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
1,1-Dichloroethene	19.9	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
1,1-Dichloropropene	21.3	N.D	U	µg/L	1.4	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
1,2,3-Trichlorobenzene	20.0	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
1,2,3-Trichloropropane	19.6	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
1,2,4-Trichlorobenzene	20.3	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
1,2,4-Trimethylbenzene	20.7	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
1,2-Dibromo-3-chloropropane	22.8	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
1,2-Dibromoethane	20.4	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
1,2-Dichloroethane	19.7	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
1,2-Dichloropropane	20.7	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
1,3,5-Trimethylbenzene	6.0	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
1,3-Dichlorobenzene	20.4	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
1,3-Dichloropropane	20.0	N.D	U	µg/L	2.0	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
1,4-Dichlorobenzene	19.2	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
1-Chlorohexane	21.3	N.D	U	µg/L	1.5	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
2,2-Dichloropropane	21.6	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
2-Butanone	88.4	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
2-Chloroethyl vinyl ether	BDL	N.D	U,J	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
2-Chlorotoluene	20.4	N.D	U	µg/L	1.4	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
2-Hexanone	102.2	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
4-Bromofluorobenzene-SURR	20.3	19.8	--	µg/L	N/A	N/A	20.0	98.9	71	125	N/A	N/A	09/08/17	20:47	NIVA
4-Chlorotoluene	19.2	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA

QUALITY CONTROL SUMMARY

4-Isopropyltoluene	21.4	N.D	U	µg/L	1.4	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
4-Methyl-2-pentanone	98.7	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
Acetone	87.5	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
Acrolein	370.0	N.D	U,J	µg/L	25.0	75.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
Acrylonitrile	97.6	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
Benzene	20.8	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
Bromobenzene	20.9	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
Bromochloromethane	20.3	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
Bromodichloromethane	21.4	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
Bromoform	23.8	1.2	--	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
Bromomethane	15.2	N.D	U	µg/L	2.0	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
Carbon disulfide	102.9	N.D	U	µg/L	7.0	15.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
Carbon tetrachloride	22.4	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
Chlorobenzene	20.4	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
Chloroethane	21.9	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
Chloroform	20.4	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
Chloromethane	25.3	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
Dibromochloromethane	22.7	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
Dibromofluoromethane-SURR	19.9	20.7	--	µg/L	N/A	N/A	20.0	104	76	123	N/A	N/A	09/08/17	20:47	NIVA
Dibromomethane	20.7	N.D	U	µg/L	1.5	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
Dichlorodifluoromethane	24.3	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
Dichloromethane	16.3	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
Epichlorohydrin	492.4	N.D	U	µg/L	30.0	75.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
Ethylbenzene	20.9	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
Hexachlorobutadiene	20.4	N.D	U	µg/L	1.4	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
Iodomethane	27.7	N.D	U	µg/L	8.0	15.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
Isopropylbenzene	21.9	N.D	U	µg/L	2.0	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
Naphthalene	20.8	N.D	U	µg/L	2.0	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
Styrene	BDL	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
Tetrachloroethene	20.9	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
Tetrahydrofuran	19.9	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA

QUALITY CONTROL SUMMARY

Toluene	20.8	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
Toluene-d8-SURR	20.2	19.9	--	µg/L	N/A	N/A	20.0	99.6	77	122	N/A	N/A	09/08/17	20:47	NIVA
Trichloroethene	21.2	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
Trichlorofluoromethane	23.9	N.D	U	µg/L	1.5	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
Vinyl Acetate	20.9	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
Vinyl chloride	24.3	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
cis-1,2-Dichloroethene	20.6	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
cis-1,3-Dichloropropene	21.7	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
m,p-Xylene	41.7	N.D	U	µg/L	1.8	6.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
n-Butylbenzene	21.3	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
n-Propylbenzene	21.5	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
o-Dichlorobenzene	19.9	N.D	U	µg/L	1.0	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
o-Xylene	21.1	N.D	U	µg/L	2.3	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
sec-Butylbenzene	21.8	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
tert-Butylbenzene	22.0	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
trans-1,2-Dichloroethene	19.0	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
trans-1,3-Dichloropropene	22.6	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA
trans-1,4-Dichloro-2-butene	103.6	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N.C.	20	09/08/17	20:47	NIVA

2727013 - MS
Reference Sample Number is: 2725812

							Accuracy				Precision				
									Acceptance Criteria			Acceptance Criteria	Analysis		
Analyte Name	**Reference Result**	**QC Result**	**DQ**	**Units**	**MDL**	**MRL**	**A/A**	**Rec. %**	**Low Limit**	**High Limit**	**RPD**	**High Limit**	**Date**	**Time**	**By**
1,1,1,2-Tetrachloroethane	N.D	23.2	--	µg/L	1.2	3.0	20.0	116	67	124	N/A	N/A	09/08/17	21:17	NIVA
1,1,1-Trichloroethane	N.D	26.0	--	µg/L	1.2	3.0	20.0	130	69	140	N/A	N/A	09/08/17	21:17	NIVA
1,1,2,2-Tetrachloroethane	N.D	22.0	--	µg/L	1.2	3.0	20.0	110	64	122	N/A	N/A	09/08/17	21:17	NIVA
1,1,2-Trichloroethane	N.D	21.8	--	µg/L	1.2	3.0	20.0	109	78	125	N/A	N/A	09/08/17	21:17	NIVA
1,1-Dichloroethane	N.D	22.5	--	µg/L	2.0	3.0	20.0	113	56	141	N/A	N/A	09/08/17	21:17	NIVA
1,1-Dichloroethene	N.D	23.6	--	µg/L	1.2	3.0	20.0	118	44	155	N/A	N/A	09/08/17	21:17	NIVA
1,1-Dichloropropene	N.D	25.2	Q	µg/L	1.4	3.0	20.0	126	83	110	N/A	N/A	09/08/17	21:17	NIVA
1,2,3-Trichlorobenzene	N.D	20.8	--	µg/L	1.2	3.0	20.0	104	71	119	N/A	N/A	09/08/17	21:17	NIVA

QUALITY CONTROL SUMMARY

1,2,3-Trichloropropane	N.D	21.4	--	µg/L	1.2	3.0	20.0	107	47	131	N/A	N/A	09/08/17	21:17	NIVA
1,2,4-Trichlorobenzene	N.D	21.1	--	µg/L	1.2	3.0	20.0	106	53	139	N/A	N/A	09/08/17	21:17	NIVA
1,2,4-Trimethylbenzene	N.D	23.2	--	µg/L	1.2	3.0	20.0	116	52	141	N/A	N/A	09/08/17	21:17	NIVA
1,2-Dibromo-3-chloropropane	N.D	28.8	Q	µg/L	1.2	3.0	20.0	144	67	140	N/A	N/A	09/08/17	21:17	NIVA
1,2-Dibromoethane	N.D	22.3	--	µg/L	1.2	3.0	20.0	112	66	140	N/A	N/A	09/08/17	21:17	NIVA
1,2-Dichloroethane	N.D	21.7	--	µg/L	1.2	3.0	20.0	109	60	139	N/A	N/A	09/08/17	21:17	NIVA
1,2-Dichloropropane	N.D	22.6	--	µg/L	1.2	3.0	20.0	113	71	121	N/A	N/A	09/08/17	21:17	NIVA
1,3,5-Trimethylbenzene	N.D	23.6	--	µg/L	1.2	3.0	20.0	118	61	125	N/A	N/A	09/08/17	21:17	NIVA
1,3-Dichlorobenzene	N.D	21.7	--	µg/L	1.2	3.0	20.0	109	61	129	N/A	N/A	09/08/17	21:17	NIVA
1,3-Dichloropropane	N.D	21.6	--	µg/L	2.0	3.0	20.0	108	69	124	N/A	N/A	09/08/17	21:17	NIVA
1,4-Dichlorobenzene	N.D	20.8	--	µg/L	1.2	3.0	20.0	104	73	122	N/A	N/A	09/08/17	21:17	NIVA
1-Chlorohexane	N.D	24.4	--	µg/L	1.5	3.0	20.0	122	48	136	N/A	N/A	09/08/17	21:17	NIVA
2,2-Dichloropropane	N.D	25.2	--	µg/L	1.2	3.0	20.0	126	13	157	N/A	N/A	09/08/17	21:17	NIVA
2-Butanone	N.D	105.0	--	µg/L	6.0	15.0	100	105	43	151	N/A	N/A	09/08/17	21:17	NIVA
2-Chloroethyl vinyl ether	N.D	BDL	Q	µg/L	6.0	15.0	100	0.00	10	178	N/A	N/A	09/08/17	21:17	NIVA
2-Chlorotoluene	N.D	22.4	--	µg/L	1.4	3.0	20.0	112	64	139	N/A	N/A	09/08/17	21:17	NIVA
2-Hexanone	N.D	113.8	--	µg/L	6.0	15.0	100	114	53	147	N/A	N/A	09/08/17	21:17	NIVA
4-Bromofluorobenzene-SURR	19.8	19.9	--	µg/L	N/A	N/A	20.0	99.4	71	125	N/A	N/A	09/08/17	21:17	NIVA
4-Chlorotoluene	N.D	22.4	--	µg/L	1.2	3.0	20.0	112	64	128	N/A	N/A	09/08/17	21:17	NIVA
4-Isopropyltoluene	N.D	24.1	--	µg/L	1.4	3.0	20.0	121	66	129	N/A	N/A	09/08/17	21:17	NIVA
4-Methyl-2-pentanone	N.D	113.0	--	µg/L	6.0	15.0	100	113	57	143	N/A	N/A	09/08/17	21:17	NIVA
Acetone	N.D	89.6	--	µg/L	6.0	15.0	100	89.6	33	154	N/A	N/A	09/08/17	21:17	NIVA
Acrolein	N.D	27.2	Q	µg/L	25.0	75.0	500	5.40	47	157	N/A	N/A	09/08/17	21:17	NIVA
Acrylonitrile	N.D	103.4	--	µg/L	6.0	15.0	100	103	34	160	N/A	N/A	09/08/17	21:17	NIVA
Benzene	N.D	23.0	--	µg/L	1.2	3.0	20.0	115	65	139	N/A	N/A	09/08/17	21:17	NIVA
Bromobenzene	N.D	21.9	--	µg/L	1.2	3.0	20.0	110	64	120	N/A	N/A	09/08/17	21:17	NIVA
Bromochloromethane	N.D	18.7	--	µg/L	1.2	3.0	20.0	93.5	49	150	N/A	N/A	09/08/17	21:17	NIVA
Bromodichloromethane	3.2	27.1	--	µg/L	1.2	3.0	20.0	120	64	141	N/A	N/A	09/08/17	21:17	NIVA
Bromoform	N.D	25.2	--	µg/L	1.2	3.0	20.0	126	61	132	N/A	N/A	09/08/17	21:17	NIVA
Bromomethane	N.D	16.1	--	µg/L	2.0	3.0	20.0	80.5	35	163	N/A	N/A	09/08/17	21:17	NIVA
Carbon disulfide	N.D	123.8	--	µg/L	7.0	15.0	100	124	48	158	N/A	N/A	09/08/17	21:17	NIVA

QUALITY CONTROL SUMMARY

Carbon tetrachloride	N.D	27.7	Q	µg/L	1.2	3.0	20.0	139	73	137	N/A	N/A	09/08/17	21:17	NIVA
Chlorobenzene	N.D	21.8	--	µg/L	1.2	3.0	20.0	109	68	121	N/A	N/A	09/08/17	21:17	NIVA
Chloroethane	N.D	18.2	--	µg/L	1.2	3.0	20.0	91.0	50	142	N/A	N/A	09/08/17	21:17	NIVA
Chloroform	6.3	27.9	--	µg/L	1.2	3.0	20.0	108	59	140	N/A	N/A	09/08/17	21:17	NIVA
Chloromethane	N.D	21.8	--	µg/L	1.2	3.0	20.0	109	42	139	N/A	N/A	09/08/17	21:17	NIVA
Dibromochloromethane	BDL	25.1	--	µg/L	1.2	3.0	20.0	126	67	137	N/A	N/A	09/08/17	21:17	NIVA
Dibromofluoromethane-SURR	21.0	20.6	--	µg/L	N/A	N/A	20.0	103	76	123	N/A	N/A	09/08/17	21:17	NIVA
Dibromomethane	N.D	22.8	--	µg/L	1.5	3.0	20.0	114	72	139	N/A	N/A	09/08/17	21:17	NIVA
Dichlorodifluoromethane	N.D	28.8	--	µg/L	1.2	3.0	20.0	144	42	157	N/A	N/A	09/08/17	21:17	NIVA
Dichloromethane	N.D	16.3	--	µg/L	1.2	3.0	20.0	81.5	56	135	N/A	N/A	09/08/17	21:17	NIVA
Epichlorohydrin	N.D	278.0	--	µg/L	30.0	75.0	500	55.6	37	129	N/A	N/A	09/08/17	21:17	NIVA
Ethylbenzene	N.D	23.2	--	µg/L	1.2	3.0	20.0	116	58	136	N/A	N/A	09/08/17	21:17	NIVA
Hexachlorobutadiene	N.D	21.0	--	µg/L	1.4	3.0	20.0	105	62	124	N/A	N/A	09/08/17	21:17	NIVA
Iodomethane	N.D	112.4	--	µg/L	8.0	15.0	100	112	45	148	N/A	N/A	09/08/17	21:17	NIVA
Isopropylbenzene	N.D	24.4	--	µg/L	2.0	3.0	20.0	122	64	122	N/A	N/A	09/08/17	21:17	NIVA
Naphthalene	N.D	22.0	--	µg/L	2.0	3.0	20.0	110	66	135	N/A	N/A	09/08/17	21:17	NIVA
Styrene	N.D	21.5	--	µg/L	1.2	3.0	20.0	108	65	123	N/A	N/A	09/08/17	21:17	NIVA
Tetrachloroethene	N.D	25.0	--	µg/L	1.2	3.0	20.0	125	64	138	N/A	N/A	09/08/17	21:17	NIVA
Tetrahydrofuran	N.D	22.2	--	µg/L	1.2	3.0	20.0	111	51	147	N/A	N/A	09/08/17	21:17	NIVA
Toluene	N.D	23.4	--	µg/L	1.2	3.0	20.0	117	65	140	N/A	N/A	09/08/17	21:17	NIVA
Toluene-d8-SURR	19.8	20.1	--	µg/L	N/A	N/A	20.0	101	77	122	N/A	N/A	09/08/17	21:17	NIVA
Trichloroethene	N.D	23.5	--	µg/L	1.2	3.0	20.0	118	76	126	N/A	N/A	09/08/17	21:17	NIVA
Trichlorofluoromethane	N.D	22.4	--	µg/L	1.5	3.0	20.0	112	60	144	N/A	N/A	09/08/17	21:17	NIVA
Vinyl Acetate	N.D	113.2	--	µg/L	6.0	15.0	100	113	52	141	N/A	N/A	09/08/17	21:17	NIVA
Vinyl chloride	N.D	17.4	--	µg/L	1.2	3.0	20.0	87.0	39	151	N/A	N/A	09/08/17	21:17	NIVA
cis-1,2-Dichloroethene	N.D	22.4	--	µg/L	1.2	3.0	20.0	112	66	127	N/A	N/A	09/08/17	21:17	NIVA
cis-1,3-Dichloropropene	N.D	20.9	--	µg/L	1.2	3.0	20.0	105	57	131	N/A	N/A	09/08/17	21:17	NIVA
m,p-Xylene	N.D	46.0	--	µg/L	1.8	6.0	40.0	115	56	145	N/A	N/A	09/08/17	21:17	NIVA
n-Butylbenzene	N.D	24.0	Q	µg/L	1.2	3.0	20.0	120	72	114	N/A	N/A	09/08/17	21:17	NIVA
n-Propylbenzene	N.D	23.9	--	µg/L	1.2	3.0	20.0	120	61	123	N/A	N/A	09/08/17	21:17	NIVA
o-Dichlorobenzene	N.D	21.0	--	µg/L	1.0	3.0	20.0	105	73	124	N/A	N/A	09/08/17	21:17	NIVA

QUALITY CONTROL SUMMARY

o-Xylene	N.D	22.8	--	µg/L	2.3	3.0	20.0	114	54	143	N/A	N/A	09/08/17	21:17	NIVA
sec-Butylbenzene	N.D	24.6	Q	µg/L	1.2	3.0	20.0	123	64	114	N/A	N/A	09/08/17	21:17	NIVA
tert-Butylbenzene	N.D	24.3	Q	µg/L	1.2	3.0	20.0	122	68	113	N/A	N/A	09/08/17	21:17	NIVA
trans-1,2-Dichloroethene	N.D	23.7	--	µg/L	1.2	3.0	20.0	119	56	146	N/A	N/A	09/08/17	21:17	NIVA
trans-1,3-Dichloropropene	N.D	23.7	--	µg/L	1.2	3.0	20.0	119	59	130	N/A	N/A	09/08/17	21:17	NIVA
trans-1,4-Dichloro-2-butene	N.D	107.1	--	µg/L	6.0	15.0	100	107	47	129	N/A	N/A	09/08/17	21:17	NIVA

2727011 - LFB
Reference Sample Number is: 2721712

							Accuracy				Precision				
									Acceptance Criteria			Acceptance Criteria	Analysis		
Analyte Name	Reference Result	QC Result	DQ	Units	MDL	MRL	A/A	Rec. %	Low Limit	High Limit	RPD	High Limit	Date	Time	By
1,1,1,2-Tetrachloroethane	21.1	19.8	--	µg/L	1.2	3.0	20.0	99.0	67	126	N/A	N/A	09/08/17	21:46	NIVA
1,1,1-Trichloroethane	21.7	21.3	--	µg/L	1.2	3.0	20.0	107	64	139	N/A	N/A	09/08/17	21:46	NIVA
1,1,2,2-Tetrachloroethane	19.9	19.4	--	µg/L	1.2	3.0	20.0	97.0	60	131	N/A	N/A	09/08/17	21:46	NIVA
1,1,2-Trichloroethane	19.9	19.4	--	µg/L	1.2	3.0	20.0	97.0	70	129	N/A	N/A	09/08/17	21:46	NIVA
1,1-Dichloroethane	20.9	19.5	--	µg/L	2.0	3.0	20.0	97.5	63	133	N/A	N/A	09/08/17	21:46	NIVA
1,1-Dichloroethene	19.9	20.2	--	µg/L	1.2	3.0	20.0	101	55	139	N/A	N/A	09/08/17	21:46	NIVA
1,1-Dichloropropene	21.3	20.9	--	µg/L	1.4	3.0	20.0	105	67	131	N/A	N/A	09/08/17	21:46	NIVA
1,2,3-Trichlorobenzene	20.0	19.1	--	µg/L	1.2	3.0	20.0	95.5	68	131	N/A	N/A	09/08/17	21:46	NIVA
1,2,3-Trichloropropane	19.6	18.9	--	µg/L	1.2	3.0	20.0	94.5	52	131	N/A	N/A	09/08/17	21:46	NIVA
1,2,4-Trichlorobenzene	20.3	19.1	--	µg/L	1.2	3.0	20.0	95.5	51	132	N/A	N/A	09/08/17	21:46	NIVA
1,2,4-Trimethylbenzene	20.7	19.8	--	µg/L	1.2	3.0	20.0	99.0	63	129	N/A	N/A	09/08/17	21:46	NIVA
1,2-Dibromo-3-chloropropane	22.8	24.7	--	µg/L	1.2	3.0	20.0	124	66	139	N/A	N/A	09/08/17	21:46	NIVA
1,2-Dibromoethane	20.4	19.8	--	µg/L	1.2	3.0	20.0	99.0	76	126	N/A	N/A	09/08/17	21:46	NIVA
1,2-Dichloroethane	19.7	19.1	--	µg/L	1.2	3.0	20.0	95.5	60	136	N/A	N/A	09/08/17	21:46	NIVA
1,2-Dichloropropane	20.7	19.5	--	µg/L	2.0	3.0	20.0	97.5	70	124	N/A	N/A	09/08/17	21:46	NIVA
1,3,5-Trimethylbenzene	6.0	20.1	--	µg/L	1.2	3.0	20.0	101	68	123	N/A	N/A	09/08/17	21:46	NIVA
1,3-Dichlorobenzene	20.4	18.8	--	µg/L	1.2	3.0	20.0	94.0	62	127	N/A	N/A	09/08/17	21:46	NIVA
1,3-Dichloropropane	20.0	19.3	--	µg/L	1.2	3.0	20.0	96.5	74	124	N/A	N/A	09/08/17	21:46	NIVA
1,4-Dichlorobenzene	19.2	18.1	--	µg/L	1.2	3.0	20.0	90.5	73	123	N/A	N/A	09/08/17	21:46	NIVA
1-Chlorohexane	21.3	20.2	--	µg/L	1.5	3.0	20.0	101	56	139	N/A	N/A	09/08/17	21:46	NIVA

QUALITY CONTROL SUMMARY

2,2-Dichloropropane	21.6	19.6	--	µg/L	1.2	3.0	20.0	98.0	37	148	N/A	N/A	09/08/17	21:46	NIVA
2-Butanone	88.4	97.7	--	µg/L	6.0	15.0	100	97.7	57	136	N/A	N/A	09/08/17	21:46	NIVA
2-Chloroethyl vinyl ether	BDL	96.5	--	µg/L	6.0	15.0	100	96.5	47	143	N/A	N/A	09/08/17	21:46	NIVA
2-Chlorotoluene	20.4	19.1	--	µg/L	1.4	3.0	20.0	95.5	66	127	N/A	N/A	09/08/17	21:46	NIVA
2-Hexanone	102.2	100.3	--	µg/L	6.0	15.0	100	100	62	136	N/A	N/A	09/08/17	21:46	NIVA
4-Bromofluorobenzene-SURR	20.3	20.0	--	µg/L	N/A	N/A	20.0	100	79	121	N/A	N/A	09/08/17	21:46	NIVA
4-Chlorotoluene	19.2	19.2	--	µg/L	1.2	3.0	20.0	96.0	63	125	N/A	N/A	09/08/17	21:46	NIVA
4-Isopropyltoluene	21.4	20.4	--	µg/L	1.4	3.0	20.0	102	68	131	N/A	N/A	09/08/17	21:46	NIVA
4-Methyl-2-pentanone	98.7	98.7	--	µg/L	6.0	15.0	100	98.7	62	135	N/A	N/A	09/08/17	21:46	NIVA
Acetone	87.5	85.7	--	µg/L	6.0	15.0	100	85.7	46	142	N/A	N/A	09/08/17	21:46	NIVA
Acrolein	370.0	459.3	--	µg/L	25.0	75.0	500	91.9	40	153	N/A	N/A	09/08/17	21:46	NIVA
Acrylonitrile	97.6	97.1	--	µg/L	6.0	15.0	100	97.1	53	141	N/A	N/A	09/08/17	21:46	NIVA
Benzene	20.8	19.6	--	µg/L	1.2	3.0	20.0	98.0	66	131	N/A	N/A	09/08/17	21:46	NIVA
Bromobenzene	20.9	18.9	--	µg/L	1.2	3.0	20.0	94.5	61	126	N/A	N/A	09/08/17	21:46	NIVA
Bromochloromethane	20.3	20.2	--	µg/L	1.2	3.0	20.0	101	60	133	N/A	N/A	09/08/17	21:46	NIVA
Bromodichloromethane	21.4	20.4	--	µg/L	1.2	3.0	20.0	102	72	129	N/A	N/A	09/08/17	21:46	NIVA
Bromoform	23.8	21.4	--	µg/L	1.2	3.0	20.0	107	61	130	N/A	N/A	09/08/17	21:46	NIVA
Bromomethane	15.2	18.4	--	µg/L	2.0	3.0	20.0	92.0	47	151	N/A	N/A	09/08/17	21:46	NIVA
Carbon disulfide	102.9	104.2	--	µg/L	7.0	15.0	100	104	58	140	N/A	N/A	09/08/17	21:46	NIVA
Carbon tetrachloride	22.4	22.7	--	µg/L	1.2	3.0	20.0	114	69	134	N/A	N/A	09/08/17	21:46	NIVA
Chlorobenzene	20.4	18.7	--	µg/L	1.2	3.0	20.0	93.5	67	122	N/A	N/A	09/08/17	21:46	NIVA
Chloroethane	21.9	22.2	--	µg/L	1.2	3.0	20.0	111	47	144	N/A	N/A	09/08/17	21:46	NIVA
Chloroform	20.4	19.3	--	µg/L	1.2	3.0	20.0	96.5	61	134	N/A	N/A	09/08/17	21:46	NIVA
Chloromethane	25.3	21.7	--	µg/L	1.2	3.0	20.0	109	43	142	N/A	N/A	09/08/17	21:46	NIVA
Dibromochloromethane	22.7	21.1	--	µg/L	1.2	3.0	20.0	106	69	134	N/A	N/A	09/08/17	21:46	NIVA
Dibromofluoromethane-SURR	19.9	20.5	--	µg/L	N/A	N/A	20.0	103	83	120	N/A	N/A	09/08/17	21:46	NIVA
Dibromomethane	20.7	20.0	--	µg/L	1.5	3.0	20.0	100	76	131	N/A	N/A	09/08/17	21:46	NIVA
Dichlorodifluoromethane	24.3	23.2	--	µg/L	1.2	3.0	20.0	116	49	145	N/A	N/A	09/08/17	21:46	NIVA
Dichloromethane	16.3	18.4	--	µg/L	1.2	3.0	20.0	92.0	62	129	N/A	N/A	09/08/17	21:46	NIVA
Epichlorohydrin	492.4	475.7	--	µg/L	30.0	75.0	500	95.1	52	134	N/A	N/A	09/08/17	21:46	NIVA
Ethylbenzene	20.9	19.6	--	µg/L	1.2	3.0	20.0	98.0	69	131	N/A	N/A	09/08/17	21:46	NIVA

QUALITY CONTROL SUMMARY

Hexachlorobutadiene	20.4	20.2	--	µg/L	1.4	3.0	20.0	101	51	139	N/A	N/A	09/08/17	21:46	NIVA
Iodomethane	27.7	104.2	--	µg/L	8.0	15.0	100	104	54	143	N/A	N/A	09/08/17	21:46	NIVA
Isopropylbenzene	21.9	20.5	--	µg/L	2.0	3.0	20.0	103	69	121	N/A	N/A	09/08/17	21:46	NIVA
Naphthalene	20.8	20.1	--	µg/L	2.0	3.0	20.0	101	71	134	N/A	N/A	09/08/17	21:46	NIVA
Styrene	BDL	19.4	--	µg/L	1.2	3.0	20.0	97.0	65	127	N/A	N/A	09/08/17	21:46	NIVA
Tetrachloroethene	20.9	20.8	--	µg/L	1.2	3.0	20.0	104	62	135	N/A	N/A	09/08/17	21:46	NIVA
Tetrahydrofuran	19.9	19.9	--	µg/L	1.2	3.0	20.0	99.5	67	134	N/A	N/A	09/08/17	21:46	NIVA
Toluene	20.8	19.9	--	µg/L	1.2	3.0	20.0	99.5	59	143	N/A	N/A	09/08/17	21:46	NIVA
Toluene-d8-SURR	20.2	20.4	--	µg/L	N/A	N/A	20.0	102	80	116	N/A	N/A	09/08/17	21:46	NIVA
Trichloroethene	21.2	20.0	--	µg/L	1.2	3.0	20.0	100	67	138	N/A	N/A	09/08/17	21:46	NIVA
Trichlorofluoromethane	23.9	22.6	--	µg/L	1.5	3.0	20.0	113	45	157	N/A	N/A	09/08/17	21:46	NIVA
Vinyl Acetate	20.9	104.7	--	µg/L	6.0	15.0	100	105	53	144	N/A	N/A	09/08/17	21:46	NIVA
Vinyl chloride	24.3	22.3	--	µg/L	1.2	3.0	20.0	112	52	140	N/A	N/A	09/08/17	21:46	NIVA
cis-1,2-Dichloroethene	20.6	19.4	--	µg/L	1.2	3.0	20.0	97.0	71	128	N/A	N/A	09/08/17	21:46	NIVA
cis-1,3-Dichloropropene	21.7	20.3	--	µg/L	1.2	3.0	20.0	102	63	125	N/A	N/A	09/08/17	21:46	NIVA
m,p-Xylene	41.7	39.0	--	µg/L	1.8	6.0	40.0	97.5	63	130	N/A	N/A	09/08/17	21:46	NIVA
n-Butylbenzene	21.3	20.3	--	µg/L	1.2	3.0	20.0	102	67	127	N/A	N/A	09/08/17	21:46	NIVA
n-Propylbenzene	21.5	20.2	--	µg/L	1.2	3.0	20.0	101	64	124	N/A	N/A	09/08/17	21:46	NIVA
o-Dichlorobenzene	19.9	18.5	--	µg/L	1.0	3.0	20.0	92.5	75	121	N/A	N/A	09/08/17	21:46	NIVA
o-Xylene	21.1	19.4	--	µg/L	2.3	3.0	20.0	97.0	66	124	N/A	N/A	09/08/17	21:46	NIVA
sec-Butylbenzene	21.8	20.8	--	µg/L	1.2	3.0	20.0	104	66	122	N/A	N/A	09/08/17	21:46	NIVA
tert-Butylbenzene	22.0	20.5	--	µg/L	1.2	3.0	20.0	103	65	126	N/A	N/A	09/08/17	21:46	NIVA
trans-1,2-Dichloroethene	19.0	19.9	--	µg/L	1.2	3.0	20.0	99.5	66	129	N/A	N/A	09/08/17	21:46	NIVA
trans-1,3-Dichloropropene	22.6	21.0	--	µg/L	1.2	3.0	20.0	105	60	131	N/A	N/A	09/08/17	21:46	NIVA
trans-1,4-Dichloro-2-butene	103.6	99.4	--	µg/L	6.0	15.0	100	99.4	53	123	N/A	N/A	09/08/17	21:46	NIVA

2728418 - LRB
Reference Sample Number is: 2721709

							Accuracy				Precision				
									Acceptance Criteria			Acceptance Criteria	Analysis		
Analyte Name	**Reference Result**	**QC Result**	**DQ**	**Units**	**MDL**	**MRL**	**A/A**	**Rec. %**	**Low Limit**	**High Limit**	**RPD**	**High Limit**	**Date**	**Time**	**By**
1,1,1,2-Tetrachloroethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA

QUALITY CONTROL SUMMARY

1,1,1-Trichloroethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
1,1,2,2-Tetrachloroethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
1,1,2-Trichloroethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
1,1-Dichloroethane	N.D	N.D	U	µg/L	2.0	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
1,1-Dichloroethene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
1,1-Dichloropropene	N.D	N.D	U	µg/L	1.4	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
1,2,3-Trichlorobenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
1,2,3-Trichloropropane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
1,2,4-Trichlorobenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
1,2,4-Trimethylbenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
1,2-Dibromo-3-chloropropane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
1,2-Dibromoethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
1,2-Dichloroethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
1,2-Dichloropropane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
1,3,5-Trimethylbenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
1,3-Dichlorobenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
1,3-Dichloropropane	N.D	N.D	U	µg/L	2.0	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
1,4-Dichlorobenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
1-Chlorohexane	N.D	N.D	U	µg/L	1.5	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
2,2-Dichloropropane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
2-Butanone	N.D	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
2-Chloroethyl vinyl ether	N.D	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
2-Chlorotoluene	N.D	N.D	U	µg/L	1.4	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
2-Hexanone	N.D	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
4-Bromofluorobenzene-SURR	19.7	19.9	--	µg/L	N/A	N/A	20.0	99.7	79	121	N/A	N/A	09/12/17	15:35	NIVA
4-Chlorotoluene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
4-Isopropyltoluene	N.D	N.D	U	µg/L	1.4	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
4-Methyl-2-pentanone	N.D	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
Acetone	N.D	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
Acrolein	N.D	N.D	U	µg/L	25.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
Acrylonitrile	N.D	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA

QUALITY CONTROL SUMMARY

Benzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
Bromobenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
Bromochloromethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
Bromodichloromethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
Bromoform	1.2	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
Bromomethane	N.D	N.D	U	µg/L	2.0	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
Carbon disulfide	N.D	N.D	U	µg/L	7.0	15.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
Carbon tetrachloride	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
Chlorobenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
Chloroethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
Chloroform	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
Chloromethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
Dibromochloromethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
Dibromofluoromethane-SURR	20.1	20.1	--	µg/L	N/A	N/A	20.0	101	83	120	N/A	N/A	09/12/17	15:35	NIVA
Dibromomethane	N.D	N.D	U	µg/L	1.5	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
Dichlorodifluoromethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
Dichloromethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
Epichlorohydrin	N.D	N.D	U	µg/L	30.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
Ethylbenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
Hexachlorobutadiene	N.D	N.D	U	µg/L	1.4	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
Iodomethane	N.D	N.D	U	µg/L	8.0	15.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
Isopropylbenzene	N.D	N.D	U	µg/L	2.0	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
Naphthalene	N.D	N.D	U	µg/L	2.0	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
Styrene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
Tetrachloroethene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
Tetrahydrofuran	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
Toluene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
Toluene-d8-SURR	19.8	19.6	--	µg/L	N/A	N/A	20.0	98.2	80	116	N/A	N/A	09/12/17	15:35	NIVA
Trichloroethene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
Trichlorofluoromethane	N.D	N.D	U	µg/L	1.5	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
Vinyl Acetate	N.D	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA

QUALITY CONTROL SUMMARY

Vinyl chloride	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
cis-1,2-Dichloroethene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
cis-1,3-Dichloropropene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
m,p-Xylene	N.D	N.D	U	µg/L	1.8	6.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
n-Butylbenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
n-Propylbenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
o-Dichlorobenzene	N.D	N.D	U	µg/L	1.0	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
o-Xylene	N.D	N.D	U	µg/L	2.3	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
sec-Butylbenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
tert-Butylbenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
trans-1,2-Dichloroethene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
trans-1,3-Dichloropropene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA
trans-1,4-Dichloro-2-butene	N.D	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N/A	N/A	09/12/17	15:35	NIVA

2728420 - ICV
Reference Sample Number is: 2721709

							Accuracy				Precision		Analysis		
									Acceptance Criteria			Acceptance Criteria			
Analyte Name	**Reference Result**	**QC Result**	**DQ**	**Units**	**MDL**	**MRL**	**A/A**	**Rec. %**	**Low Limit**	**High Limit**	**RPD**	**High Limit**	**Date**	**Time**	**By**
1,1,1,2-Tetrachloroethane	N.D	19.3	--	µg/L	1.2	3.0	20.0	96.3	80	120	N/A	N/A	09/12/17	16:44	NIVA
1,1,1-Trichloroethane	N.D	19.8	--	µg/L	1.2	3.0	20.0	98.8	80	120	N/A	N/A	09/12/17	16:44	NIVA
1,1,2,2-Tetrachloroethane	N.D	18.6	--	µg/L	1.2	3.0	20.0	92.9	80	120	N/A	N/A	09/12/17	16:44	NIVA
1,1,2-Trichloroethane	N.D	18.6	--	µg/L	1.2	3.0	20.0	92.8	80	120	N/A	N/A	09/12/17	16:44	NIVA
1,1-Dichloroethane	N.D	19.1	--	µg/L	2.0	3.0	20.0	95.4	80	120	N/A	N/A	09/12/17	16:44	NIVA
1,1-Dichloroethene	N.D	18.7	--	µg/L	1.2	3.0	20.0	93.5	80	120	N/A	N/A	09/12/17	16:44	NIVA
1,1-Dichloropropene	N.D	19.3	--	µg/L	1.4	3.0	20.0	96.3	80	120	N/A	N/A	09/12/17	16:44	NIVA
1,2,3-Trichlorobenzene	N.D	18.3	--	µg/L	1.2	3.0	20.0	91.3	80	120	N/A	N/A	09/12/17	16:44	NIVA
1,2,3-Trichloropropane	N.D	18.5	--	µg/L	1.2	3.0	20.0	92.3	80	120	N/A	N/A	09/12/17	16:44	NIVA
1,2,4-Trichlorobenzene	N.D	18.3	--	µg/L	1.2	3.0	20.0	91.7	80	120	N/A	N/A	09/12/17	16:44	NIVA
1,2,4-Trimethylbenzene	N.D	19.3	--	µg/L	1.2	3.0	20.0	96.4	80	120	N/A	N/A	09/12/17	16:44	NIVA
1,2-Dibromo-3-chloropropane	N.D	20.3	--	µg/L	1.2	3.0	20.0	102	80	120	N/A	N/A	09/12/17	16:44	NIVA
1,2-Dibromoethane	N.D	18.9	--	µg/L	1.2	3.0	20.0	94.5	80	120	N/A	N/A	09/12/17	16:44	NIVA

QUALITY CONTROL SUMMARY

1,2-Dichloroethane	N.D	18.5	--	µg/L	1.2	3.0	20.0	92.3	80	120	N/A	N/A	09/12/17	16:44	NIVA
1,2-Dichloropropane	N.D	19.0	--	µg/L	1.2	3.0	20.0	94.9	80	120	N/A	N/A	09/12/17	16:44	NIVA
1,3,5-Trimethylbenzene	N.D	19.4	--	µg/L	1.2	3.0	20.0	97.1	80	120	N/A	N/A	09/12/17	16:44	NIVA
1,3-Dichlorobenzene	N.D	18.4	--	µg/L	1.2	3.0	20.0	92.0	80	120	N/A	N/A	09/12/17	16:44	NIVA
1,3-Dichloropropane	N.D	18.6	--	µg/L	2.0	3.0	20.0	92.8	80	120	N/A	N/A	09/12/17	16:44	NIVA
1,4-Dichlorobenzene	N.D	18.0	--	µg/L	1.2	3.0	20.0	89.8	80	120	N/A	N/A	09/12/17	16:44	NIVA
1-Chlorohexane	N.D	19.1	--	µg/L	1.5	3.0	20.0	95.3	80	120	N/A	N/A	09/12/17	16:44	NIVA
2,2-Dichloropropane	N.D	20.6	--	µg/L	1.2	3.0	20.0	103	80	120	N/A	N/A	09/12/17	16:44	NIVA
2-Butanone	N.D	93.8	--	µg/L	6.0	15.0	100	93.8	80	120	N/A	N/A	09/12/17	16:44	NIVA
2-Chloroethyl vinyl ether	N.D	97.2	--	µg/L	6.0	15.0	100	97.2	80	120	N/A	N/A	09/12/17	16:44	NIVA
2-Chlorotoluene	N.D	18.6	--	µg/L	1.4	3.0	20.0	92.8	80	120	N/A	N/A	09/12/17	16:44	NIVA
2-Hexanone	N.D	97.6	--	µg/L	6.0	15.0	100	97.6	80	120	N/A	N/A	09/12/17	16:44	NIVA
4-Bromofluorobenzene-SURR	19.7	19.9	--	µg/L	N/A	N/A	20.0	99.5	79	121	N/A	N/A	09/12/17	16:44	NIVA
4-Chlorotoluene	N.D	18.9	--	µg/L	1.2	3.0	20.0	94.3	80	120	N/A	N/A	09/12/17	16:44	NIVA
4-Isopropyltoluene	N.D	19.7	--	µg/L	1.4	3.0	20.0	98.4	80	120	N/A	N/A	09/12/17	16:44	NIVA
4-Methyl-2-pentanone	N.D	93.8	--	µg/L	6.0	15.0	100	93.8	80	120	N/A	N/A	09/12/17	16:44	NIVA
Acetone	N.D	89.9	--	µg/L	6.0	15.0	100	89.9	80	120	N/A	N/A	09/12/17	16:44	NIVA
Acrolein	N.D	464.3	--	µg/L	25.0	75.0	500	92.9	80	120	N/A	N/A	09/12/17	16:44	NIVA
Acrylonitrile	N.D	93.2	--	µg/L	6.0	15.0	100	93.2	80	120	N/A	N/A	09/12/17	16:44	NIVA
Benzene	N.D	18.9	--	µg/L	1.2	3.0	20.0	94.5	80	120	N/A	N/A	09/12/17	16:44	NIVA
Bromobenzene	N.D	19.0	--	µg/L	1.2	3.0	20.0	95.1	80	120	N/A	N/A	09/12/17	16:44	NIVA
Bromochloromethane	N.D	18.6	--	µg/L	1.2	3.0	20.0	93.0	80	120	N/A	N/A	09/12/17	16:44	NIVA
Bromodichloromethane	N.D	19.2	--	µg/L	1.2	3.0	20.0	96.0	80	120	N/A	N/A	09/12/17	16:44	NIVA
Bromoform	1.2	19.9	--	µg/L	1.2	3.0	20.0	99.3	80	120	N/A	N/A	09/12/17	16:44	NIVA
Bromomethane	N.D	17.6	--	µg/L	2.0	3.0	20.0	87.8	80	120	N/A	N/A	09/12/17	16:44	NIVA
Carbon disulfide	N.D	94.5	--	µg/L	7.0	15.0	100	94.5	80	120	N/A	N/A	09/12/17	16:44	NIVA
Carbon tetrachloride	N.D	20.2	--	µg/L	1.2	3.0	20.0	101	80	120	N/A	N/A	09/12/17	16:44	NIVA
Chlorobenzene	N.D	18.6	--	µg/L	1.2	3.0	20.0	93.1	80	120	N/A	N/A	09/12/17	16:44	NIVA
Chloroethane	N.D	20.7	--	µg/L	1.2	3.0	20.0	103	80	120	N/A	N/A	09/12/17	16:44	NIVA
Chloroform	N.D	18.7	--	µg/L	1.2	3.0	20.0	93.7	80	120	N/A	N/A	09/12/17	16:44	NIVA
Chloromethane	N.D	18.5	--	µg/L	1.2	3.0	20.0	92.5	80	120	N/A	N/A	09/12/17	16:44	NIVA

QUALITY CONTROL SUMMARY

Dibromochloromethane	N.D	19.8	--	µg/L	1.2	3.0	20.0	98.9	80	120	N/A	N/A	09/12/17	16:44	NIVA
Dibromofluoromethane-SURR	20.1	20.1	--	µg/L	N/A	N/A	20.0	100	83	120	N/A	N/A	09/12/17	16:44	NIVA
Dibromomethane	N.D	19.0	--	µg/L	1.5	3.0	20.0	95.2	80	120	N/A	N/A	09/12/17	16:44	NIVA
Dichlorodifluoromethane	N.D	20.5	--	µg/L	1.2	3.0	20.0	102	80	120	N/A	N/A	09/12/17	16:44	NIVA
Dichloromethane	N.D	16.8	--	µg/L	1.2	3.0	20.0	84.0	80	120	N/A	N/A	09/12/17	16:44	NIVA
Epichlorohydrin	N.D	473.7	--	µg/L	30.0	75.0	500	94.7	80	120	N/A	N/A	09/12/17	16:44	NIVA
Ethylbenzene	N.D	19.1	--	µg/L	1.2	3.0	20.0	95.4	80	120	N/A	N/A	09/12/17	16:44	NIVA
Hexachlorobutadiene	N.D	18.1	--	µg/L	1.4	3.0	20.0	90.5	80	120	N/A	N/A	09/12/17	16:44	NIVA
Iodomethane	N.D	100.8	--	µg/L	8.0	15.0	100	101	80	120	N/A	N/A	09/12/17	16:44	NIVA
Isopropylbenzene	N.D	19.7	--	µg/L	2.0	3.0	20.0	98.6	80	120	N/A	N/A	09/12/17	16:44	NIVA
Naphthalene	N.D	19.5	--	µg/L	2.0	3.0	20.0	97.4	80	120	N/A	N/A	09/12/17	16:44	NIVA
Styrene	N.D	19.3	--	µg/L	1.2	3.0	20.0	96.6	80	120	N/A	N/A	09/12/17	16:44	NIVA
Tetrachloroethene	N.D	19.2	--	µg/L	1.2	3.0	20.0	96.2	80	120	N/A	N/A	09/12/17	16:44	NIVA
Tetrahydrofuran	N.D	18.9	--	µg/L	1.2	3.0	20.0	94.4	80	120	N/A	N/A	09/12/17	16:44	NIVA
Toluene	N.D	18.9	--	µg/L	1.2	3.0	20.0	94.3	80	120	N/A	N/A	09/12/17	16:44	NIVA
Toluene-d8-SURR	19.8	19.9	--	µg/L	N/A	N/A	20.0	99.7	80	116	N/A	N/A	09/12/17	16:44	NIVA
Trichloroethene	N.D	19.2	--	µg/L	1.2	3.0	20.0	95.8	80	120	N/A	N/A	09/12/17	16:44	NIVA
Trichlorofluoromethane	N.D	20.4	--	µg/L	1.5	3.0	20.0	102	80	120	N/A	N/A	09/12/17	16:44	NIVA
Vinyl Acetate	N.D	97.5	--	µg/L	6.0	15.0	100	97.5	80	120	N/A	N/A	09/12/17	16:44	NIVA
Vinyl chloride	N.D	19.9	--	µg/L	1.2	3.0	20.0	99.6	80	120	N/A	N/A	09/12/17	16:44	NIVA
cis-1,2-Dichloroethene	N.D	19.0	--	µg/L	1.2	3.0	20.0	95.0	80	120	N/A	N/A	09/12/17	16:44	NIVA
cis-1,3-Dichloropropene	N.D	20.0	--	µg/L	1.2	3.0	20.0	100	80	120	N/A	N/A	09/12/17	16:44	NIVA
m,p-Xylene	N.D	38.2	--	µg/L	1.8	6.0	40.0	95.5	80	120	N/A	N/A	09/12/17	16:44	NIVA
n-Butylbenzene	N.D	19.4	--	µg/L	1.2	3.0	20.0	97.1	80	120	N/A	N/A	09/12/17	16:44	NIVA
n-Propylbenzene	N.D	19.4	--	µg/L	1.2	3.0	20.0	97.1	80	120	N/A	N/A	09/12/17	16:44	NIVA
o-Dichlorobenzene	N.D	18.5	--	µg/L	1.0	3.0	20.0	92.6	80	120	N/A	N/A	09/12/17	16:44	NIVA
o-Xylene	N.D	19.3	--	µg/L	2.3	3.0	20.0	96.3	80	120	N/A	N/A	09/12/17	16:44	NIVA
sec-Butylbenzene	N.D	19.4	--	µg/L	1.2	3.0	20.0	97.1	80	120	N/A	N/A	09/12/17	16:44	NIVA
tert-Butylbenzene	N.D	19.6	--	µg/L	1.2	3.0	20.0	98.0	80	120	N/A	N/A	09/12/17	16:44	NIVA
trans-1,2-Dichloroethene	N.D	17.7	--	µg/L	1.2	3.0	20.0	88.3	80	120	N/A	N/A	09/12/17	16:44	NIVA
trans-1,3-Dichloropropene	N.D	20.7	--	µg/L	1.2	3.0	20.0	104	80	120	N/A	N/A	09/12/17	16:44	NIVA

QUALITY CONTROL SUMMARY

trans-1,4-Dichloro-2-butene	N.D	99.6	--	µg/L	6.0	15.0	100	99.6	80	120	N/A	N/A	09/12/17	16:44	NIVA

2721711 - MS
Reference Sample Number is: 2721709

							Accuracy				Precision		Analysis		
									Acceptance Criteria			Acceptance Criteria			
Analyte Name	**Reference Result**	**QC Result**	**DQ**	**Units**	**MDL**	**MRL**	**A/A**	**Rec. %**	**Low Limit**	**High Limit**	**RPD**	**High Limit**	**Date**	**Time**	**By**
1,1,1,2-Tetrachloroethane	N.D	17.9	--	µg/L	1.2	3.0	20.0	89.5	67	124	N/A	N/A	09/12/17	17:51	NIVA
1,1,1-Trichloroethane	N.D	18.8	--	µg/L	1.2	3.0	20.0	93.9	69	140	N/A	N/A	09/12/17	17:51	NIVA
1,1,2,2-Tetrachloroethane	N.D	17.2	--	µg/L	1.2	3.0	20.0	86.0	64	122	N/A	N/A	09/12/17	17:51	NIVA
1,1,2-Trichloroethane	N.D	17.4	--	µg/L	1.2	3.0	20.0	87.0	78	125	N/A	N/A	09/12/17	17:51	NIVA
1,1-Dichloroethane	N.D	18.1	--	µg/L	2.0	3.0	20.0	90.4	56	141	N/A	N/A	09/12/17	17:51	NIVA
1,1-Dichloroethene	N.D	17.2	--	µg/L	1.2	3.0	20.0	85.8	44	155	N/A	N/A	09/12/17	17:51	NIVA
1,1-Dichloropropene	N.D	18.0	--	µg/L	1.4	3.0	20.0	90.2	83	110	N/A	N/A	09/12/17	17:51	NIVA
1,2,3-Trichlorobenzene	N.D	17.0	--	µg/L	1.2	3.0	20.0	85.2	71	119	N/A	N/A	09/12/17	17:51	NIVA
1,2,3-Trichloropropane	N.D	17.0	--	µg/L	1.2	3.0	20.0	84.9	47	131	N/A	N/A	09/12/17	17:51	NIVA
1,2,4-Trichlorobenzene	N.D	17.3	--	µg/L	1.2	3.0	20.0	86.7	53	139	N/A	N/A	09/12/17	17:51	NIVA
1,2,4-Trimethylbenzene	N.D	1.3	Q	µg/L	1.2	3.0	20.0	6.50	52	141	N/A	N/A	09/12/17	17:51	NIVA
1,2-Dibromo-3-chloropropane	N.D	19.5	--	µg/L	1.2	3.0	20.0	97.6	67	140	N/A	N/A	09/12/17	17:51	NIVA
1,2-Dibromoethane	N.D	17.7	--	µg/L	1.2	3.0	20.0	88.4	66	140	N/A	N/A	09/12/17	17:51	NIVA
1,2-Dichloroethane	N.D	17.3	--	µg/L	1.2	3.0	20.0	86.3	60	139	N/A	N/A	09/12/17	17:51	NIVA
1,2-Dichloropropane	N.D	17.8	--	µg/L	1.2	3.0	20.0	89.0	71	121	N/A	N/A	09/12/17	17:51	NIVA
1,3,5-Trimethylbenzene	N.D	1.3	Q	µg/L	1.2	3.0	20.0	6.65	61	125	N/A	N/A	09/12/17	17:51	NIVA
1,3-Dichlorobenzene	N.D	17.6	--	µg/L	1.2	3.0	20.0	87.8	61	129	N/A	N/A	09/12/17	17:51	NIVA
1,3-Dichloropropane	N.D	17.3	--	µg/L	2.0	3.0	20.0	86.5	69	124	N/A	N/A	09/12/17	17:51	NIVA
1,4-Dichlorobenzene	N.D	16.6	--	µg/L	1.2	3.0	20.0	82.8	73	122	N/A	N/A	09/12/17	17:51	NIVA
1-Chlorohexane	N.D	18.0	--	µg/L	1.5	3.0	20.0	90.2	48	136	N/A	N/A	09/12/17	17:51	NIVA
2,2-Dichloropropane	N.D	18.5	--	µg/L	1.2	3.0	20.0	92.5	13	157	N/A	N/A	09/12/17	17:51	NIVA
2-Butanone	N.D	85.1	--	µg/L	6.0	15.0	100	85.1	43	151	N/A	N/A	09/12/17	17:51	NIVA
2-Chloroethyl vinyl ether	N.D	BDL	Q	µg/L	6.0	15.0	100	3.79	10	178	N/A	N/A	09/12/17	17:51	NIVA
2-Chlorotoluene	N.D	17.7	--	µg/L	1.4	3.0	20.0	88.3	64	139	N/A	N/A	09/12/17	17:51	NIVA
2-Hexanone	N.D	89.8	--	µg/L	6.0	15.0	100	89.8	53	147	N/A	N/A	09/12/17	17:51	NIVA

QUALITY CONTROL SUMMARY

4-Bromofluorobenzene-SURR	19.7	20.2	--	µg/L	N/A	N/A	20.0	101	71	125	N/A	N/A	09/12/17	17:51	NIVA
4-Chlorotoluene	N.D	16.0	--	µg/L	1.2	3.0	20.0	80.1	64	128	N/A	N/A	09/12/17	17:51	NIVA
4-Isopropyltoluene	N.D	17.6	--	µg/L	1.4	3.0	20.0	88.2	66	129	N/A	N/A	09/12/17	17:51	NIVA
4-Methyl-2-pentanone	N.D	85.8	--	µg/L	6.0	15.0	100	85.8	57	143	N/A	N/A	09/12/17	17:51	NIVA
Acetone	N.D	78.7	--	µg/L	6.0	15.0	100	78.7	33	154	N/A	N/A	09/12/17	17:51	NIVA
Acrolein	N.D	322.0	--	µg/L	25.0	75.0	500	64.4	47	157	N/A	N/A	09/12/17	17:51	NIVA
Acrylonitrile	N.D	84.3	--	µg/L	6.0	15.0	100	84.3	34	160	N/A	N/A	09/12/17	17:51	NIVA
Benzene	N.D	18.0	--	µg/L	1.2	3.0	20.0	90.2	65	139	N/A	N/A	09/12/17	17:51	NIVA
Bromobenzene	N.D	17.8	--	µg/L	1.2	3.0	20.0	89.2	64	120	N/A	N/A	09/12/17	17:51	NIVA
Bromochloromethane	N.D	20.9	--	µg/L	1.2	3.0	20.0	105	49	150	N/A	N/A	09/12/17	17:51	NIVA
Bromodichloromethane	N.D	18.3	--	µg/L	1.2	3.0	20.0	91.6	64	141	N/A	N/A	09/12/17	17:51	NIVA
Bromoform	1.2	20.4	--	µg/L	1.2	3.0	20.0	95.7	61	132	N/A	N/A	09/12/17	17:51	NIVA
Bromomethane	N.D	16.1	--	µg/L	2.0	3.0	20.0	80.5	35	163	N/A	N/A	09/12/17	17:51	NIVA
Carbon disulfide	N.D	89.7	--	µg/L	7.0	15.0	100	89.7	48	158	N/A	N/A	09/12/17	17:51	NIVA
Carbon tetrachloride	N.D	19.4	--	µg/L	1.2	3.0	20.0	97.2	73	137	N/A	N/A	09/12/17	17:51	NIVA
Chlorobenzene	N.D	17.4	--	µg/L	1.2	3.0	20.0	87.1	68	121	N/A	N/A	09/12/17	17:51	NIVA
Chloroethane	N.D	18.0	--	µg/L	1.2	3.0	20.0	90.1	50	142	N/A	N/A	09/12/17	17:51	NIVA
Chloroform	N.D	17.6	--	µg/L	1.2	3.0	20.0	87.8	59	140	N/A	N/A	09/12/17	17:51	NIVA
Chloromethane	N.D	25.3	--	µg/L	1.2	3.0	20.0	127	42	139	N/A	N/A	09/12/17	17:51	NIVA
Dibromochloromethane	N.D	19.2	--	µg/L	1.2	3.0	20.0	96.2	67	137	N/A	N/A	09/12/17	17:51	NIVA
Dibromofluoromethane-SURR	20.1	20.1	--	µg/L	N/A	N/A	20.0	101	76	123	N/A	N/A	09/12/17	17:51	NIVA
Dibromomethane	N.D	17.8	--	µg/L	1.5	3.0	20.0	89.0	72	139	N/A	N/A	09/12/17	17:51	NIVA
Dichlorodifluoromethane	N.D	22.8	--	µg/L	1.2	3.0	20.0	114	42	157	N/A	N/A	09/12/17	17:51	NIVA
Dichloromethane	N.D	14.2	--	µg/L	1.2	3.0	20.0	71.0	56	135	N/A	N/A	09/12/17	17:51	NIVA
Epichlorohydrin	N.D	432.8	--	µg/L	30.0	75.0	500	86.6	37	129	N/A	N/A	09/12/17	17:51	NIVA
Ethylbenzene	N.D	17.8	--	µg/L	1.2	3.0	20.0	89.0	58	136	N/A	N/A	09/12/17	17:51	NIVA
Hexachlorobutadiene	N.D	17.0	--	µg/L	1.4	3.0	20.0	84.9	62	124	N/A	N/A	09/12/17	17:51	NIVA
Iodomethane	N.D	BDL	Q	µg/L	8.0	15.0	100	3.27	45	148	N/A	N/A	09/12/17	17:51	NIVA
Isopropylbenzene	N.D	18.6	--	µg/L	2.0	3.0	20.0	92.8	64	122	N/A	N/A	09/12/17	17:51	NIVA
Naphthalene	N.D	12.8	Q	µg/L	2.0	3.0	20.0	63.9	66	135	N/A	N/A	09/12/17	17:51	NIVA
Styrene	N.D	BDL	Q	µg/L	1.2	3.0	20.0	2.55	65	123	N/A	N/A	09/12/17	17:51	NIVA

QUALITY CONTROL SUMMARY

Tetrachloroethene	N.D	18.3	--	µg/L	1.2	3.0	20.0	91.6	64	138	N/A	N/A	09/12/17	17:51	NIVA
Tetrahydrofuran	N.D	17.5	--	µg/L	1.2	3.0	20.0	87.4	51	147	N/A	N/A	09/12/17	17:51	NIVA
Toluene	N.D	17.9	--	µg/L	1.2	3.0	20.0	89.4	65	140	N/A	N/A	09/12/17	17:51	NIVA
Toluene-d8-SURR	19.8	20.3	--	µg/L	N/A	N/A	20.0	101	77	122	N/A	N/A	09/12/17	17:51	NIVA
Trichloroethene	N.D	18.3	--	µg/L	1.2	3.0	20.0	91.4	76	126	N/A	N/A	09/12/17	17:51	NIVA
Trichlorofluoromethane	N.D	22.3	--	µg/L	1.5	3.0	20.0	112	60	144	N/A	N/A	09/12/17	17:51	NIVA
Vinyl Acetate	N.D	15.2	Q	µg/L	6.0	15.0	100	15.2	52	141	N/A	N/A	09/12/17	17:51	NIVA
Vinyl chloride	N.D	21.6	--	µg/L	1.2	3.0	20.0	108	39	151	N/A	N/A	09/12/17	17:51	NIVA
cis-1,2-Dichloroethene	N.D	17.7	--	µg/L	1.2	3.0	20.0	88.3	66	127	N/A	N/A	09/12/17	17:51	NIVA
cis-1,3-Dichloropropene	N.D	18.7	--	µg/L	1.2	3.0	20.0	93.3	57	131	N/A	N/A	09/12/17	17:51	NIVA
m,p-Xylene	N.D	21.8	Q	µg/L	1.8	6.0	40.0	54.5	56	145	N/A	N/A	09/12/17	17:51	NIVA
n-Butylbenzene	N.D	18.1	--	µg/L	1.2	3.0	20.0	90.5	72	114	N/A	N/A	09/12/17	17:51	NIVA
n-Propylbenzene	N.D	17.7	--	µg/L	1.2	3.0	20.0	88.3	61	123	N/A	N/A	09/12/17	17:51	NIVA
o-Dichlorobenzene	N.D	17.1	--	µg/L	1.0	3.0	20.0	85.5	73	124	N/A	N/A	09/12/17	17:51	NIVA
o-Xylene	N.D	17.3	--	µg/L	2.3	3.0	20.0	86.3	54	143	N/A	N/A	09/12/17	17:51	NIVA
sec-Butylbenzene	N.D	18.5	--	µg/L	1.2	3.0	20.0	92.4	64	114	N/A	N/A	09/12/17	17:51	NIVA
tert-Butylbenzene	N.D	18.8	--	µg/L	1.2	3.0	20.0	94.1	68	113	N/A	N/A	09/12/17	17:51	NIVA
trans-1,2-Dichloroethene	N.D	16.3	--	µg/L	1.2	3.0	20.0	81.5	56	146	N/A	N/A	09/12/17	17:51	NIVA
trans-1,3-Dichloropropene	N.D	19.3	--	µg/L	1.2	3.0	20.0	96.7	59	130	N/A	N/A	09/12/17	17:51	NIVA
trans-1,4-Dichloro-2-butene	N.D	42.9	Q	µg/L	6.0	15.0	100	42.9	47	129	N/A	N/A	09/12/17	17:51	NIVA

2721712 - MSD
Reference Sample Number is: 2721709

							Accuracy				Precision		Analysis		
									Acceptance Criteria			Acceptance Criteria			
Analyte Name	**Reference Result**	**QC Result**	**DQ**	**Units**	**MDL**	**MRL**	**A/A**	**Rec. %**	**Low Limit**	**High Limit**	**RPD**	**High Limit**	**Date**	**Time**	**By**
1,1,1,2-Tetrachloroethane	N.D	21.1	--	µg/L	1.2	3.0	20.0	106	67	124	16.4	20	09/12/17	18:24	NIVA
1,1,1-Trichloroethane	N.D	21.7	--	µg/L	1.2	3.0	20.0	109	69	140	14.3	20	09/12/17	18:24	NIVA
1,1,2,2-Tetrachloroethane	N.D	19.9	--	µg/L	1.2	3.0	20.0	99.3	64	122	14.4	20	09/12/17	18:24	NIVA
1,1,2-Trichloroethane	N.D	19.9	--	µg/L	1.2	3.0	20.0	99.7	78	125	13.6	20	09/12/17	18:24	NIVA
1,1-Dichloroethane	N.D	20.9	--	µg/L	2.0	3.0	20.0	105	56	141	14.4	20	09/12/17	18:24	NIVA
1,1-Dichloroethene	N.D	19.9	--	µg/L	1.2	3.0	20.0	99.3	44	155	14.6	20	09/12/17	18:24	NIVA

QUALITY CONTROL SUMMARY

1,1-Dichloropropene	N.D	21.3	--	µg/L	1.4	3.0	20.0	106	83	110	16.4	20	09/12/17	18:24	NIVA
1,2,3-Trichlorobenzene	N.D	20.0	--	µg/L	1.2	3.0	20.0	99.8	71	119	15.8	20	09/12/17	18:24	NIVA
1,2,3-Trichloropropane	N.D	19.6	--	µg/L	1.2	3.0	20.0	97.9	47	131	14.2	20	09/12/17	18:24	NIVA
1,2,4-Trichlorobenzene	N.D	20.3	--	µg/L	1.2	3.0	20.0	101	53	139	15.6	20	09/12/17	18:24	NIVA
1,2,4-Trimethylbenzene	N.D	20.7	Q	µg/L	1.2	3.0	20.0	104	52	141	176	20	09/12/17	18:24	NIVA
1,2-Dibromo-3-chloropropane	N.D	22.8	--	µg/L	1.2	3.0	20.0	114	67	140	15.3	20	09/12/17	18:24	NIVA
1,2-Dibromoethane	N.D	20.4	--	µg/L	1.2	3.0	20.0	102	66	140	14.3	20	09/12/17	18:24	NIVA
1,2-Dichloroethane	N.D	19.7	--	µg/L	1.2	3.0	20.0	98.7	60	139	13.4	20	09/12/17	18:24	NIVA
1,2-Dichloropropane	N.D	20.7	--	µg/L	1.2	3.0	20.0	103	71	121	14.9	20	09/12/17	18:24	NIVA
1,3,5-Trimethylbenzene	N.D	6.0	Q	µg/L	1.2	3.0	20.0	30.0	61	125	N.C.	20	09/12/17	18:24	NIVA
1,3-Dichlorobenzene	N.D	20.4	--	µg/L	1.2	3.0	20.0	102	61	129	15.2	20	09/12/17	18:24	NIVA
1,3-Dichloropropane	N.D	20.0	--	µg/L	2.0	3.0	20.0	100	69	124	14.5	20	09/12/17	18:24	NIVA
1,4-Dichlorobenzene	N.D	19.2	--	µg/L	1.2	3.0	20.0	96.2	73	122	15.0	20	09/12/17	18:24	NIVA
1-Chlorohexane	N.D	21.3	--	µg/L	1.5	3.0	20.0	106	48	136	16.3	20	09/12/17	18:24	NIVA
2,2-Dichloropropane	N.D	21.6	--	µg/L	1.2	3.0	20.0	108	13	157	15.5	20	09/12/17	18:24	NIVA
2-Butanone	N.D	88.4	--	µg/L	6.0	15.0	100	88.4	43	151	3.81	20	09/12/17	18:24	NIVA
2-Chloroethyl vinyl ether	N.D	BDL	Q	µg/L	6.0	15.0	100	0.00	10	178	N.C.	20	09/12/17	18:24	NIVA
2-Chlorotoluene	N.D	20.4	--	µg/L	1.4	3.0	20.0	102	64	139	14.6	20	09/12/17	18:24	NIVA
2-Hexanone	N.D	102.2	--	µg/L	6.0	15.0	100	102	53	147	12.9	20	09/12/17	18:24	NIVA
4-Bromofluorobenzene-SURR	19.7	20.3	--	µg/L	N/A	N/A	20.0	101	71	125	N/A	N/A	09/12/17	18:24	NIVA
4-Chlorotoluene	N.D	19.2	--	µg/L	1.2	3.0	20.0	96.1	64	128	18.2	20	09/12/17	18:24	NIVA
4-Isopropyltoluene	N.D	21.4	--	µg/L	1.4	3.0	20.0	107	66	129	19.4	20	09/12/17	18:24	NIVA
4-Methyl-2-pentanone	N.D	98.7	--	µg/L	6.0	15.0	100	98.7	57	143	14.0	20	09/12/17	18:24	NIVA
Acetone	N.D	87.5	--	µg/L	6.0	15.0	100	87.5	33	154	10.7	20	09/12/17	18:24	NIVA
Acrolein	N.D	370.0	--	µg/L	25.0	75.0	500	74.0	47	157	13.9	20	09/12/17	18:24	NIVA
Acrylonitrile	N.D	97.6	--	µg/L	6.0	15.0	100	97.6	34	160	14.7	20	09/12/17	18:24	NIVA
Benzene	N.D	20.8	--	µg/L	1.2	3.0	20.0	104	65	139	14.3	20	09/12/17	18:24	NIVA
Bromobenzene	N.D	20.9	--	µg/L	1.2	3.0	20.0	104	64	120	15.8	20	09/12/17	18:24	NIVA
Bromochloromethane	N.D	20.3	--	µg/L	1.2	3.0	20.0	102	49	150	3.01	20	09/12/17	18:24	NIVA
Bromodichloromethane	N.D	21.4	--	µg/L	1.2	3.0	20.0	107	64	141	15.6	20	09/12/17	18:24	NIVA
Bromoform	1.2	23.8	--	µg/L	1.2	3.0	20.0	113	61	132	15.6	20	09/12/17	18:24	NIVA

QUALITY CONTROL SUMMARY

Bromomethane	N.D	15.2	--	µg/L	2.0	3.0	20.0	76.0	35	163	N.C.	20	09/12/17	18:24	NIVA
Carbon disulfide	N.D	102.9	--	µg/L	7.0	15.0	100	103	48	158	13.7	20	09/12/17	18:24	NIVA
Carbon tetrachloride	N.D	22.4	--	µg/L	1.2	3.0	20.0	112	73	137	14.3	20	09/12/17	18:24	NIVA
Chlorobenzene	N.D	20.4	--	µg/L	1.2	3.0	20.0	102	68	121	15.9	20	09/12/17	18:24	NIVA
Chloroethane	N.D	21.9	--	µg/L	1.2	3.0	20.0	110	50	142	19.6	20	09/12/17	18:24	NIVA
Chloroform	N.D	20.4	--	µg/L	1.2	3.0	20.0	102	59	140	15.2	20	09/12/17	18:24	NIVA
Chloromethane	N.D	25.3	--	µg/L	1.2	3.0	20.0	127	42	139	0.00	20	09/12/17	18:24	NIVA
Dibromochloromethane	N.D	22.7	--	µg/L	1.2	3.0	20.0	113	67	137	16.4	20	09/12/17	18:24	NIVA
Dibromofluoromethane-SURR	20.1	19.9	--	µg/L	N/A	N/A	20.0	99.4	76	123	N/A	N/A	09/12/17	18:24	NIVA
Dibromomethane	N.D	20.7	--	µg/L	1.5	3.0	20.0	104	72	139	15.2	20	09/12/17	18:24	NIVA
Dichlorodifluoromethane	N.D	24.3	--	µg/L	1.2	3.0	20.0	122	42	157	6.41	20	09/12/17	18:24	NIVA
Dichloromethane	N.D	16.3	--	µg/L	1.2	3.0	20.0	81.6	56	135	13.9	20	09/12/17	18:24	NIVA
Epichlorohydrin	N.D	492.4	--	µg/L	30.0	75.0	500	98.5	37	129	12.9	20	09/12/17	18:24	NIVA
Ethylbenzene	N.D	20.9	--	µg/L	1.2	3.0	20.0	104	58	136	16.0	20	09/12/17	18:24	NIVA
Hexachlorobutadiene	N.D	20.4	--	µg/L	1.4	3.0	20.0	102	62	124	18.5	20	09/12/17	18:24	NIVA
Iodomethane	N.D	27.7	Q	µg/L	8.0	15.0	100	27.7	45	148	N.C.	20	09/12/17	18:24	NIVA
Isopropylbenzene	N.D	21.9	--	µg/L	2.0	3.0	20.0	110	64	122	16.3	20	09/12/17	18:24	NIVA
Naphthalene	N.D	20.8	Q	µg/L	2.0	3.0	20.0	104	66	135	47.6	20	09/12/17	18:24	NIVA
Styrene	N.D	BDL	Q	µg/L	1.2	3.0	20.0	0.00	65	123	N.C.	20	09/12/17	18:24	NIVA
Tetrachloroethene	N.D	20.9	--	µg/L	1.2	3.0	20.0	104	64	138	13.1	20	09/12/17	18:24	NIVA
Tetrahydrofuran	N.D	19.9	--	µg/L	1.2	3.0	20.0	99.7	51	147	13.1	20	09/12/17	18:24	NIVA
Toluene	N.D	20.8	--	µg/L	1.2	3.0	20.0	104	65	140	15.0	20	09/12/17	18:24	NIVA
Toluene-d8-SURR	19.8	20.2	--	µg/L	N/A	N/A	20.0	101	77	122	N/A	N/A	09/12/17	18:24	NIVA
Trichloroethene	N.D	21.2	--	µg/L	1.2	3.0	20.0	106	76	126	14.6	20	09/12/17	18:24	NIVA
Trichlorofluoromethane	N.D	23.9	--	µg/L	1.5	3.0	20.0	119	60	144	6.58	20	09/12/17	18:24	NIVA
Vinyl Acetate	N.D	20.9	Q	µg/L	6.0	15.0	100	20.9	52	141	N.C.	20	09/12/17	18:24	NIVA
Vinyl chloride	N.D	24.3	--	µg/L	1.2	3.0	20.0	121	39	151	11.7	20	09/12/17	18:24	NIVA
cis-1,2-Dichloroethene	N.D	20.6	--	µg/L	1.2	3.0	20.0	103	66	127	15.4	20	09/12/17	18:24	NIVA
cis-1,3-Dichloropropene	N.D	21.7	--	µg/L	1.2	3.0	20.0	108	57	131	15.0	20	09/12/17	18:24	NIVA
m,p-Xylene	N.D	41.7	Q	µg/L	1.8	6.0	40.0	104	56	145	62.7	20	09/12/17	18:24	NIVA
n-Butylbenzene	N.D	21.3	--	µg/L	1.2	3.0	20.0	107	72	114	16.4	20	09/12/17	18:24	NIVA

QUALITY CONTROL SUMMARY

n-Propylbenzene	N.D	21.5	--	µg/L	1.2	3.0	20.0	107	61	123	19.6	20	09/12/17	18:24	NIVA
o-Dichlorobenzene	N.D	19.9	--	µg/L	1.0	3.0	20.0	99.4	73	124	15.1	20	09/12/17	18:24	NIVA
o-Xylene	N.D	21.1	--	µg/L	2.3	3.0	20.0	106	54	143	N.C.	20	09/12/17	18:24	NIVA
sec-Butylbenzene	N.D	21.8	--	µg/L	1.2	3.0	20.0	109	64	114	16.5	20	09/12/17	18:24	NIVA
tert-Butylbenzene	N.D	22.0	--	µg/L	1.2	3.0	20.0	110	68	113	15.8	20	09/12/17	18:24	NIVA
trans-1,2-Dichloroethene	N.D	19.0	--	µg/L	1.2	3.0	20.0	95.2	56	146	15.5	20	09/12/17	18:24	NIVA
trans-1,3-Dichloropropene	N.D	22.6	--	µg/L	1.2	3.0	20.0	113	59	130	15.5	20	09/12/17	18:24	NIVA
trans-1,4-Dichloro-2-butene	N.D	103.6	Q	µg/L	6.0	15.0	100	104	47	129	82.9	20	09/12/17	18:24	NIVA

2728424 - LFB

							Accuracy				Precision				
									Acceptance Criteria			Acceptance Criteria	Analysis		
Analyte Name	**Reference Result**	**QC Result**	**DQ**	**Units**	**MDL**	**MRL**	**A/A**	**Rec. %**	**Low Limit**	**High Limit**	**RPD**	**High Limit**	**Date**	**Time**	**By**
1,1,1,2-Tetrachloroethane	N/A	19.8	--	µg/L	1.2	3.0	20.0	99.0	67	126	N/A	N/A	09/12/17	18:57	NIVA
1,1,1-Trichloroethane	N/A	19.6	--	µg/L	1.2	3.0	20.0	98.0	64	139	N/A	N/A	09/12/17	18:57	NIVA
1,1,2,2-Tetrachloroethane	N/A	19.1	--	µg/L	1.2	3.0	20.0	95.5	60	131	N/A	N/A	09/12/17	18:57	NIVA
1,1,2-Trichloroethane	N/A	18.8	--	µg/L	1.2	3.0	20.0	94.0	70	129	N/A	N/A	09/12/17	18:57	NIVA
1,1-Dichloroethane	N/A	18.9	--	µg/L	2.0	3.0	20.0	94.5	63	133	N/A	N/A	09/12/17	18:57	NIVA
1,1-Dichloroethene	N/A	18.3	--	µg/L	1.2	3.0	20.0	91.5	55	139	N/A	N/A	09/12/17	18:57	NIVA
1,1-Dichloropropene	N/A	19.2	--	µg/L	1.4	3.0	20.0	96.0	67	131	N/A	N/A	09/12/17	18:57	NIVA
1,2,3-Trichlorobenzene	N/A	19.0	--	µg/L	1.2	3.0	20.0	95.0	68	131	N/A	N/A	09/12/17	18:57	NIVA
1,2,3-Trichloropropane	N/A	19.0	--	µg/L	1.2	3.0	20.0	95.0	52	131	N/A	N/A	09/12/17	18:57	NIVA
1,2,4-Trichlorobenzene	N/A	19.2	--	µg/L	1.2	3.0	20.0	96.0	51	132	N/A	N/A	09/12/17	18:57	NIVA
1,2,4-Trimethylbenzene	N/A	19.7	--	µg/L	1.2	3.0	20.0	98.5	63	129	N/A	N/A	09/12/17	18:57	NIVA
1,2-Dibromo-3-chloropropane	N/A	22.1	--	µg/L	1.2	3.0	20.0	111	66	139	N/A	N/A	09/12/17	18:57	NIVA
1,2-Dibromoethane	N/A	19.4	--	µg/L	1.2	3.0	20.0	97.0	76	126	N/A	N/A	09/12/17	18:57	NIVA
1,2-Dichloroethane	N/A	18.5	--	µg/L	1.2	3.0	20.0	92.5	60	136	N/A	N/A	09/12/17	18:57	NIVA
1,2-Dichloropropane	N/A	19.1	--	µg/L	1.2	3.0	20.0	95.5	70	124	N/A	N/A	09/12/17	18:57	NIVA
1,3,5-Trimethylbenzene	N/A	19.7	--	µg/L	1.2	3.0	20.0	98.5	68	123	N/A	N/A	09/12/17	18:57	NIVA
1,3-Dichlorobenzene	N/A	19.1	--	µg/L	1.2	3.0	20.0	95.5	62	127	N/A	N/A	09/12/17	18:57	NIVA
1,3-Dichloropropane	N/A	18.9	--	µg/L	2.0	3.0	20.0	94.5	74	124	N/A	N/A	09/12/17	18:57	NIVA

QUALITY CONTROL SUMMARY

1,4-Dichlorobenzene	N/A	18.1	--	µg/L	1.2	3.0	20.0	90.5	73	123	N/A	N/A	09/12/17	18:57	NIVA
1-Chlorohexane	N/A	19.3	--	µg/L	1.5	3.0	20.0	96.5	56	139	N/A	N/A	09/12/17	18:57	NIVA
2,2-Dichloropropane	N/A	19.0	--	µg/L	1.2	3.0	20.0	95.0	37	148	N/A	N/A	09/12/17	18:57	NIVA
2-Butanone	N/A	91.4	--	µg/L	6.0	15.0	100	91.4	57	136	N/A	N/A	09/12/17	18:57	NIVA
2-Chloroethyl vinyl ether	N/A	98.8	--	µg/L	6.0	15.0	100	98.8	47	143	N/A	N/A	09/12/17	18:57	NIVA
2-Chlorotoluene	N/A	18.8	--	µg/L	1.2	3.0	20.0	94.0	66	127	N/A	N/A	09/12/17	18:57	NIVA
2-Hexanone	N/A	98.5	--	µg/L	6.0	15.0	100	98.5	62	136	N/A	N/A	09/12/17	18:57	NIVA
4-Bromofluorobenzene-SURR	N/A	20.3	--	µg/L	N/A	N/A	20.0	101	79	121	N/A	N/A	09/12/17	18:57	NIVA
4-Chlorotoluene	N/A	19.2	--	µg/L	1.2	3.0	20.0	96.0	63	125	N/A	N/A	09/12/17	18:57	NIVA
4-Isopropyltoluene	N/A	19.8	--	µg/L	1.4	3.0	20.0	99.0	68	131	N/A	N/A	09/12/17	18:57	NIVA
4-Methyl-2-pentanone	N/A	93.8	--	µg/L	6.0	15.0	100	93.8	62	135	N/A	N/A	09/12/17	18:57	NIVA
Acetone	N/A	85.0	--	µg/L	6.0	15.0	100	85.0	46	142	N/A	N/A	09/12/17	18:57	NIVA
Acrolein	N/A	449.4	--	µg/L	25.0	75.0	500	89.9	40	153	N/A	N/A	09/12/17	18:57	NIVA
Acrylonitrile	N/A	93.1	--	µg/L	6.0	15.0	100	93.1	53	141	N/A	N/A	09/12/17	18:57	NIVA
Benzene	N/A	19.0	--	µg/L	1.2	3.0	20.0	95.0	66	131	N/A	N/A	09/12/17	18:57	NIVA
Bromobenzene	N/A	19.6	--	µg/L	1.2	3.0	20.0	98.0	61	126	N/A	N/A	09/12/17	18:57	NIVA
Bromochloromethane	N/A	22.3	--	µg/L	1.2	3.0	20.0	112	60	133	N/A	N/A	09/12/17	18:57	NIVA
Bromodichloromethane	N/A	19.7	--	µg/L	1.2	3.0	20.0	98.5	72	129	N/A	N/A	09/12/17	18:57	NIVA
Bromoform	N/A	21.7	--	µg/L	1.2	3.0	20.0	109	61	130	N/A	N/A	09/12/17	18:57	NIVA
Bromomethane	N/A	17.6	--	µg/L	2.0	3.0	20.0	88.0	47	151	N/A	N/A	09/12/17	18:57	NIVA
Carbon disulfide	N/A	92.6	--	µg/L	7.0	15.0	100	92.6	58	140	N/A	N/A	09/12/17	18:57	NIVA
Carbon tetrachloride	N/A	20.2	--	µg/L	1.2	3.0	20.0	101	69	134	N/A	N/A	09/12/17	18:57	NIVA
Chlorobenzene	N/A	18.9	--	µg/L	1.2	3.0	20.0	94.5	67	122	N/A	N/A	09/12/17	18:57	NIVA
Chloroethane	N/A	16.2	--	µg/L	1.2	3.0	20.0	81.0	47	144	N/A	N/A	09/12/17	18:57	NIVA
Chloroform	N/A	18.6	--	µg/L	1.2	3.0	20.0	93.0	61	134	N/A	N/A	09/12/17	18:57	NIVA
Chloromethane	N/A	19.0	--	µg/L	1.2	3.0	20.0	95.0	43	142	N/A	N/A	09/12/17	18:57	NIVA
Dibromochloromethane	N/A	20.7	--	µg/L	1.2	3.0	20.0	104	69	134	N/A	N/A	09/12/17	18:57	NIVA
Dibromofluoromethane-SURR	N/A	19.6	--	µg/L	N/A	N/A	20.0	98.1	83	120	N/A	N/A	09/12/17	18:57	NIVA
Dibromomethane	N/A	19.8	--	µg/L	1.5	3.0	20.0	99.0	76	131	N/A	N/A	09/12/17	18:57	NIVA
Dichlorodifluoromethane	N/A	20.1	--	µg/L	1.2	3.0	20.0	101	49	145	N/A	N/A	09/12/17	18:57	NIVA
Dichloromethane	N/A	15.4	--	µg/L	1.2	3.0	20.0	77.0	62	129	N/A	N/A	09/12/17	18:57	NIVA

QUALITY CONTROL SUMMARY

Epichlorohydrin	N/A	469.6	--	µg/L	30.0	75.0	500	93.9	52	134	N/A	N/A	09/12/17	18:57	NIVA
Ethylbenzene	N/A	19.2	--	µg/L	1.2	3.0	20.0	96.0	69	131	N/A	N/A	09/12/17	18:57	NIVA
Hexachlorobutadiene	N/A	19.0	--	µg/L	1.4	3.0	20.0	95.0	51	139	N/A	N/A	09/12/17	18:57	NIVA
Iodomethane	N/A	96.3	--	µg/L	8.0	15.0	100	96.3	54	143	N/A	N/A	09/12/17	18:57	NIVA
Isopropylbenzene	N/A	20.1	--	µg/L	2.0	3.0	20.0	101	69	121	N/A	N/A	09/12/17	18:57	NIVA
Naphthalene	N/A	20.2	--	µg/L	2.0	3.0	20.0	101	71	134	N/A	N/A	09/12/17	18:57	NIVA
Styrene	N/A	19.8	--	µg/L	1.2	3.0	20.0	99.0	65	127	N/A	N/A	09/12/17	18:57	NIVA
Tetrachloroethene	N/A	19.1	--	µg/L	1.2	3.0	20.0	95.5	62	135	N/A	N/A	09/12/17	18:57	NIVA
Tetrahydrofuran	N/A	19.0	--	µg/L	1.2	3.0	20.0	95.0	67	134	N/A	N/A	09/12/17	18:57	NIVA
Toluene	N/A	19.0	--	µg/L	1.2	3.0	20.0	95.0	59	143	N/A	N/A	09/12/17	18:57	NIVA
Toluene-d8-SURR	N/A	19.8	--	µg/L	N/A	N/A	20.0	99.2	80	116	N/A	N/A	09/12/17	18:57	NIVA
Trichloroethene	N/A	19.4	--	µg/L	1.2	3.0	20.0	97.0	67	138	N/A	N/A	09/12/17	18:57	NIVA
Trichlorofluoromethane	N/A	19.2	--	µg/L	1.5	3.0	20.0	96.0	45	157	N/A	N/A	09/12/17	18:57	NIVA
Vinyl Acetate	N/A	98.0	--	µg/L	6.0	15.0	100	98.0	53	144	N/A	N/A	09/12/17	18:57	NIVA
Vinyl chloride	N/A	19.5	--	µg/L	1.2	3.0	20.0	97.5	52	140	N/A	N/A	09/12/17	18:57	NIVA
cis-1,2-Dichloroethene	N/A	18.9	--	µg/L	1.2	3.0	20.0	94.5	71	128	N/A	N/A	09/12/17	18:57	NIVA
cis-1,3-Dichloropropene	N/A	20.5	--	µg/L	1.2	3.0	20.0	103	63	125	N/A	N/A	09/12/17	18:57	NIVA
m,p-Xylene	N/A	38.6	--	µg/L	1.8	6.0	40.0	96.5	63	130	N/A	N/A	09/12/17	18:57	NIVA
n-Butylbenzene	N/A	19.5	--	µg/L	1.2	3.0	20.0	97.5	67	127	N/A	N/A	09/12/17	18:57	NIVA
n-Propylbenzene	N/A	19.7	--	µg/L	1.2	3.0	20.0	98.5	64	124	N/A	N/A	09/12/17	18:57	NIVA
o-Dichlorobenzene	N/A	18.8	--	µg/L	1.0	3.0	20.0	94.0	75	121	N/A	N/A	09/12/17	18:57	NIVA
o-Xylene	N/A	19.6	--	µg/L	2.3	3.0	20.0	98.0	66	124	N/A	N/A	09/12/17	18:57	NIVA
sec-Butylbenzene	N/A	19.8	--	µg/L	1.2	3.0	20.0	99.0	66	122	N/A	N/A	09/12/17	18:57	NIVA
tert-Butylbenzene	N/A	20.1	--	µg/L	1.2	3.0	20.0	101	65	126	N/A	N/A	09/12/17	18:57	NIVA
trans-1,2-Dichloroethene	N/A	17.3	--	µg/L	1.2	3.0	20.0	86.5	66	129	N/A	N/A	09/12/17	18:57	NIVA
trans-1,3-Dichloropropene	N/A	21.5	--	µg/L	1.2	3.0	20.0	108	60	131	N/A	N/A	09/12/17	18:57	NIVA
trans-1,4-Dichloro-2-butene	N/A	99.7	--	µg/L	6.0	15.0	100	99.7	53	123	N/A	N/A	09/12/17	18:57	NIVA

Footnotes:

Data Qualifiers (DQ) to be used by EQLab are listed below:

B – Analyte was detected in the blank.

D – Diluted Sample.

J – The reported result is an estimated value (e.g., matrix interference was observed or the analyte was detected at a concentration outside the quantitation range and/or final result was found between MDL and MRL).

N – Non-target analyte.

P – Does not meet preservation criteria (e.g. does not meet arrival temperature criteria or acid/base preservation criteria or incorrect container, among others).

Q – One or more quality control criteria failed (e.g., fails in Holding Time, LFB/LCS recovery, surrogate (SURR) spike recovery, matrix spike recovery or CCV recovery, out of RPD acceptance criteria among other).

R – Recognition Level. ND Results are reported "<PTRL" – Pattern Recognition Level (applicable for EPA 508 (PCB) mixtures (Aroclors), Toxaphene, and Chlordane only).

T –Thomas Formula (applicable for Microbiology testing only). The combination of positives tubes did not appear in Table 9221.IV. SM 9221C "Estimation of Bacterial Density"

U – Analyte was not detected and is reported as less than the MDL or as defined by the client. The MDL has been adjusted for any dilution or concentration of the sample.

Definitions:

A / A – Amount Added
ASTM – American Society for Testing and Materials
BDL – Below Detection Limit
CCB – Continues Calibration Blank
CCV – Continues Calibration Verification
DNI – Does not Ignite
DQ – Data Qualifiers
DUP – Duplicate
LRB – Laboratory Reagent Blank
MB – Method Blank
MCL – Maximum Contaminant Level
MDL – Method Detection Limit
MO – Monitoring Only
MRL – Minimum Reporting Limit
MS – Matrix Spike

EB/ ERB – Equipment Blank / Equipment Reagent Blank
EPA – Environmental Protection Agency
EQLab – Environmental Quality Laboratories, Inc.
FB – Field Blank
FD – Field Duplicate
FRB – Field Reagent Blank
ICB – Initial Calibration Blank
ICV – Initial Calibration Verification
LCS – Laboratory Control Sample
LFB – Laboratory Fortified Blank
LFBD – Laboratory Fortified Blank Duplicate
MSD – Matrix Spike Duplicate
N/A – Not Applicable
N.D. – Not Detected
NELAC – National Environmental Laboratory Accreditation Conference
PRDOH – Puerto Rico Department of Health
PTRL – Pattern Recognition Level
TB – Trip Blank
Rec. – Recovery
RPD – Relative Percent Difference
SM – Standard Method
SURR – Surrogate

Formulas:

1. The Relative Percent Difference (RPD) is calculated as follows:

RPD = { [/QC Final Result – Reference Final Result /] / [(QC Final Result + Reference Final Result) / 2] } X 100

RPD Micro = (log_10 QC Final Result) - (log_10 Reference Final Result) (Expressed as Precision)

The RPD applies to the following Quality Controls: DUP, MSD, LFBD. The RPD is reported N.C. when the QC Final Result is less than ten times the value of MDL. The RPD general acceptance criteria is as close to zero as possible; no more than 20% for all matrices except Solid / Soil which is < or = 40%.

2. The Recovery Percentage (% Rec) is calculated as follows:

%Rec = [(QC Final Result) / (QC Fortified Concentration)] X 100

3. For the MS and MSD Quality Controls, the Recovery Percentage (% Rec) is calculated as follows:

%Rec = [(QC Final Result - Reference Final Result) / (QC Fortified Concentration)] X 100

APPENDIX A
CHAIN OF CUSTODY DOCUMENTATION

Page 1 of 2

2017-0775c

ENVIRONMENTAL QUALITY LABORATORIES, INC.

SAMPLE DELIVERY SLIP & CHAIN OF CUSTODY

PO BOX 11458, SAN JUAN, PR 00910-1458 • TEL. (787) 288-6420, FAX (787) 288-6465, e-mail: info@eqlab.com

CLIENT NAME: [illegible] CLIENT ID: [illegible] W.O. #: [illegible] SITE: [illegible] CLIENT REP: [illegible]

P.O. #: [illegible] PWSID #: FOLDER #: [illegible] PROJECT: [illegible] EQLAB REP: [illegible]

SAMPLE INFORMATION		CONTAINER INFORMATION	FIELD TESTING		ANALYSIS REQUESTED
SAMPLE #: [illegible] MATRIX: [illegible] SOURCE: [illegible] INF-20170901	DATE: 09/01/17 TIME: 0926 TYPE: [illegible]	TYPE [illegible] COLOR [illegible] VOLUME 40 PRESERVATIVE [illegible]			EPA 8260B VOC
SAMPLE #: [illegible] MATRIX: [illegible] SOURCE: [illegible] EFF-20170901	DATE: 09/01/17 TIME: 1007 TYPE: [illegible]	TYPE [illegible] COLOR [illegible] VOLUME 40 PRESERVATIVE [illegible]			EPA 8260B VOC
SAMPLE #: [illegible] MATRIX: [illegible] SOURCE: [illegible] EFF DUP-20170901	DATE: 09/01/17 TIME: 1007 TYPE: [illegible]	TYPE [illegible] COLOR [illegible] VOLUME 40 PRESERVATIVE [illegible]			EPA 8260B VOC
SAMPLE #: [illegible] MATRIX: [illegible] SOURCE: [illegible] EFFMS-20170901	DATE: 09/01/17 TIME: 1007 TYPE: [illegible]	TYPE [illegible] COLOR [illegible] VOLUME 40 PRESERVATIVE [illegible]			EPA 8260B VOC

CUSTODY RECORD	SIGNATURE	DATE	TIME
Collected in field by:	André Colon	09/01/17	1445
Fixed in field by:	André Colon	09/01/17	
Authorized by:	N/A	N/A	
Received by EQLF:			
Released to EQLL by:	[illegible]	09/01/17	1403
Received by EQLL:	[illegible]	09/01/17	1403

SPECIAL INSTRUCTIONS / COMMENTS:

*EQLF = Eqlab's Field Personnel.
*EQLL = Eqlab's Log-in Personnel.

DIAR

Arrival Temperature: 3.0°C Signature: [illegible]

Eqlab's general terms and conditions on reverse side of this document.

ENVIRONMENTAL QUALITY LABORATORIES, INC.

SAMPLE DELIVERY SLIP & CHAIN OF CUSTODY

2017-07756

PO BOX 11458, SAN JUAN, PR 00910-1458 • TEL. (787) 288-6420, FAX (787) 288-6465, e-mail: info@eqlab.com

CLIENT NAME: [illegible] CLIENT ID: [illegible] W.O. #: [illegible] SITE: [illegible] CLIENT REP: [illegible]

P.O. #: [illegible] PWSID #: FOLDER #: [illegible] PROJECT: [illegible] EQLAB REP: [illegible]

SAMPLE INFORMATION		CONTAINER INFORMATION	FIELD TESTING		ANALYSIS REQUESTED
SAMPLE #: [illegible] MATRIX: GROUND WATER SOURCE: [illegible] EPP MSD- 20170901	DATE: 09/01/17 TIME: 1000 TYPE: [illegible]	TYPE COLOR VOLUME [illegible] PRESERVATIVE [illegible]			BPA SOLIDS [illegible]
SAMPLE #: [illegible] MATRIX: [illegible] SOURCE: [illegible]	DATE: 09/01/17 TIME: LAB TYPE: [illegible]	TYPE COLOR VOLUME [illegible] PRESERVATIVE [illegible]			[illegible]
SAMPLE #: MATRIX: SOURCE:	DATE: TIME: TYPE:	TYPE COLOR VOLUME PRESERVATIVE			
SAMPLE #: MATRIX: SOURCE:	DATE: TIME: TYPE:	TYPE COLOR VOLUME PRESERVATIVE			

CUSTODY RECORD	SIGNATURE	DATE	TIME
Collected in field by:	[illegible] Andrés Colon	09/01/17	Various
Fixed in field by:	Andrés Colon	09/01/17	
Authorized by:	[illegible]	[illegible]	
Received by EQLF:	[illegible]		
Released to EQLL by:	[illegible]	09/01/17	1403
Received by EQLL:	[illegible]	09/01/17	1403

SPECIAL INSTRUCTIONS / COMMENTS:

*EQLF = Eqlab's Field Personnel.
*EQLL = Eqlab's Log-in Personnel.

Arrival Temperature: 3.0°C Signature: [illegible]

Eqlab's general terms and conditions on reverse side of this document.

APPENDIX B
RAW DATA WORKSHEETS

ORGANICS DEPARTMENT
RAW DATA PACKAGE CHECKLIST

RUN NUMBER: 191525

☑ 1. Run Cover Sheet general information check.

☑ 2. Check if the reagents and / or support equipment information are on the Pre-Run Worksheet.

☑ 3. Check if the Pre-Run Worksheet and the Run Cover Sheet are signed.

☑ 4. Check for the presence of:

Present	Not Applicable	
☐	☑	a. Markers
☐	☑	b. Pesticides Degradation
☐	☑	c. Calculated LPC
☑	☐	d. BFB
☐	☑	e. Tailing Factor
☐	☑	f. Height of Valley
☐	☑	g. Bromoform Degradation
☑	☐	h. %RFD
☐	☑	i. DFTPP
☐	☑	j. Other: N/A

☑ 5. Check for the attachment of the LIMS Run Worksheet.

☑ 6. Check for the attachment of the Initial Calibration and its RSD or Lineal Correlation calculation, if applicable.

Prepared by: N/A (Analyst) Date: N/A

Checked by: [signature] (Laboratory Group Leader) Date: 09-12-17

Approved by: [signature] (Supervisor) Date: 09-14-2017

ORGANICS DEPARTMENT
RUN COVERSHEET

eqlab

General Information

Method Number	Run Number	Sequence Number	Sample prep by	Sample Setup by	Sample Evaluated by	Run Approved by
8260 VOC	191525	191525	NIVA PR59199	NIVA	NIVA	NIVA

Calibration Reference

Calib. Curve Name	NBK Reference	Description/Identification Number
8260VOC-AGO3-LIQ-17	NBK079Pg071	V8-AG7890MS
		PM Expiration Date: May-18

Run Reference Information

[X] LRB [ ] BFB / LPC [ ] DFTPP / Degradation [X] ICV / CCS [ ] QCS [ ] CCV / CCS [ ] PT

Amount µL	Solution Name	NBK Reference	Expiration Date	Solution Concentration ppm	Dilution Volume mL	Analyte Concentration ppb
N/A	VOC'S WATER	NBK079Pg073	N/A	N/A	N/A	N/A
5	SIM VOC 8260/624	NBK079Pg063	01/17/18	20	5	20
10	MIX 8260	NBK079Pg065	01/24/18	100	50	20
10	MIX 8260 GASES	NBK079Pg075	09/28/17	100	50	20

Preparation Reference Information

[X] MB [X] MDL [ ] MRL [X] MS / LFM [X] MSD / LFMD [X] LFB [ ] LFBD

Amount	Solution Name	NBK Reference	Expiration Date	Solution Concentration ppm	Dilution Volume mL	Analyte Concentration ppb
N/A	VOC'S WATER	NBK079Pg073	N/A	N/A	N/A	N/A
0.5	MIX 8260	NBK079Pg065	01/24/18	100	50	1
0.5	MIX 8260 GASES	NBK079Pg075	09/28/17	100	50	1
10	MIX 8260	NBK079Pg065	01/24/18	100	50	20
10	MIX 8260 GASES	NBK079Pg075	09/28/17	100	50	20

Run Status

[ ] Run In Control [ ] OOC [ ] Comp [ ] OOS [ ] Other

SOP-QC-004 Accepted Exemption:

[ ] # 1 [ ] # 2 [ ] # 3 [ ] # 4 [ ] # 5
[ ] # 6 [ ] # 7 [ ] # 8 [ ] # 9 [ ] # 10
[ ] #11 [ ] #12 [ ] #13 [ ] #14

Quality Control

Analysts Comments:

Muestras se encuentran negativas. Ver comentario del analista para OOS.

2ND SOURCE DATA FILE: DATA\190632CC\063205.D NBK079 Pg. 022

Niveles descartados en la curva de calibración no cumple con el criterio de RFD<15% del ICAL AVE RF según el SOP GN002 Ap.1.

Manual integration reasons legend:

1- Poor integration by the computer data System. 2- Over-integration of peak due to noisy baseline.

3- Abnormal peak shapes that were not integrated completely.

4- Due to (RT) retention time variation.

09-18-17

Supervisor Comments: 09-14-2017

QA/QC Comments:

Anejo 2/ SOP GN-032/ Rev. 02/ Pág 1 de 1

Run Worksheet

For: Friday, September 8, 2017

[redacted]

Analyst: VILLANUEVA

Cup#	TYPE	ORDER#	METHOD	QC LINK	MATRIX	TEST NAME	PRE RUN	VOLUME	FINALVOL	WEIGHT
1	LRB	LRB/2727005-1		2721712	GROUND WATER	EPA 8260B VOC	--	--	--	0
2	MDL	MDL/2727008-1		2721712	GROUND WATER	EPA 8260B VOC	--	--	--	0
3	ICV	ICV/2727006-1		2721712	GROUND WATER	EPA 8260B VOC	--	--	--	0
4	TRIP BL	TRIP BLK/2721713-1			DI WATER	EPA 8260B VOC	PR59199	50	50	N/A
5		2726526-2	EPA 8260B		WASTEWATER	EPA 8260B VOC	PR59199	50	50	N/A
6		2721708-1	EPA 8260B		GROUND WATER	EPA 8260B VOC	PR59199	50	50	N/A
7		2721709-1	EPA 8260B		GROUND WATER	EPA 8260B VOC	PR59199	50	50	N/A
8	DUP	DUP/2721710-1		2721709	GROUND WATER	EPA 8260B VOC	PR59199	50	50	N/A
9		2725812-3	EPA 8260B		WASTEWATER	EPA 8260B VOC	PR59199	50	50	N/A
10	DUP	DUP/2727009-1		2721712	GROUND WATER	EPA 8260B VOC	--	--	--	0
11	MS	MS/2727013-1		2725812	WASTEWATER	EPA 8260B VOC	--	--	--	0
12	LFB	LFB/2727011-1		2721712	GROUND WATER	EPA 8260B VOC	--	--	--	0
13	LRB	LRB/2728418-1		2721709	GROUND WATER	EPA 8260B VOC	--	--	--	--
14	MDL	MDL/2728419-1		2721709	GROUND WATER	EPA 8260B VOC	--	--	--	--
15	ICV	ICV/2728420-1		2721709	GROUND WATER	EPA 8260B VOC	--	--	--	--
16	MS	MS/2721711-1		2721709	GROUND WATER	EPA 8260B VOC	PR59199	50	50	N/A
17	MSD	MSD/2721712-1		2721709	GROUND WATER	EPA 8260B VOC	PR59199	50	50	N/A
18	LFB	LFB/2728424-1				EPA 8260B VOC	--	--	--	--

Printed Date: 9/12/2017
2:41 pm

ENVIRONMENTAL QUALITY LABORATORIES, INC.

PRE-RUN WORKSHEET

PRE RUN # 59199

TEMPLATE NAME: **EPA 8260B VOC BY GC/MS**

ORDNO	CUP NO	STATUS	MATRIX	METHOD	TESTS	PREP DATE	PREP BY	PREP TIME	COLLEC DATE	VOL. (mL)	FINAL VOLUME (mL)	WEIGHT (g)	pH init / final
2721708-1	1	Done	GROUND WATER	EPA 5030B	EPA 8260B VOC	9/8/2017	VILLANUEV	11:30	9/1/2017	50	50	N/A	
2721709-1	2	Done	GROUND WATER	EPA 5030B	EPA 8260B VOC	9/8/2017	VILLANUEV	11:30	9/1/2017	50	50	N/A	
2721710-1 DUP	3	Done	GROUND WATER	EPA 5030B	EPA 8260B VOC	9/8/2017	VILLANUEV	11:30	9/1/2017	50	50	N/A	
2721711-1 MS ~~DUP~~ ①	4	Done	GROUND WATER	EPA 5030B	EPA 8260B VOC	9/8/2017	VILLANUEV	11:30	9/1/2017	50	50	N/A	
2721712-1 MSD	5	Done	GROUND WATER	EPA 5030B	EPA 8260B VOC	9/8/2017	VILLANUEV	11:30	9/1/2017	50	50	N/A	
2721713-1	6	Done	DI WATER	EPA 5030B	EPA 8260B VOC	9/8/2017	VILLANUEV	11:30	9/1/2017	50	50	N/A	
2725812-3	7	Done	WASTEWATER	EPA 5030B	EPA 8260B VOC	9/8/2017	VILLANUEV	11:30	8/31/2017	50	50	N/A	
2726526-2	8	Done	WASTEWATER	EPA 5030B	EPA 8260B VOC	9/8/2017	VILLANUEV	11:30	8/24/2017	50	50	N/A	

① Type error. MS MS

ENVIRONMENTAL QUALITY LABORATORIES, INC.

PRE-RUN WORKSHEET

PRE RUN # 59199

TEMPLATE NAME: **EPA 8260B VOC BY GC/MS**

Solution Name: Lot #: N/A Refer. Notebook: N/A Amount Added: N/A Exp. Date: N/A

Prepered Sample(s) Transfered by / Date: [illegible] / 09-08-17

Prepared Sample(s) Received by / Date: N/A / N/A

Comments:

Calibration Status Report 5977B

Method Path : D:\MassHunter\GCMS\1\methods\
Method File : 8260VOC-AGO3-LIQ-17.M
Title : Analysis of VOC'S by 8260B,624
Last Update : Mon Sep 11 16:51:45 2017
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	1	3	20	D:\MassHunter\GCMS\1\data\190632CC\CC82602.D
2	2	5	20	D:\MassHunter\GCMS\1\data\190632CC\CC82603.D
3	3	10	20	D:\MassHunter\GCMS\1\data\190632CC\CC82604.D
4	4	20	20	D:\MassHunter\GCMS\1\data\190632CC\CC82605.D
5	5	50	20	D:\MassHunter\GCMS\1\data\190632CC\CC82606.D
6	6	100	20	D:\MassHunter\GCMS\1\data\190632CC\CC82607.D
7	7	200	20	D:\MassHunter\GCMS\1\data\190632CC\CC82608.D
8	8	1	20	D:\MassHunter\GCMS\1\data\190632CC\CC82601.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Aug 14 17:03 2017	Aug 14 16:48 2017	14 Aug 2017 12:58 pm
2	2	Aug 14 17:10 2017	Aug 14 17:07 2017	14 Aug 2017 01:27 pm
3	3	Aug 14 17:11 2017	Aug 14 16:50 2017	14 Aug 2017 01:57 pm
4	4	Aug 14 17:11 2017	Aug 14 16:51 2017	14 Aug 2017 02:26 pm
5	5	Aug 14 17:11 2017	Aug 14 16:52 2017	14 Aug 2017 02:56 pm
6	6	Aug 14 17:11 2017	Aug 14 16:57 2017	14 Aug 2017 03:26 pm
7	7	Aug 14 17:11 2017	Aug 14 16:58 2017	14 Aug 2017 03:56 pm
8	8	Aug 14 17:02 2017	Aug 14 16:48 2017	14 Aug 2017 12:27 pm

8260VOC-AGO3-LIQ-17.M Mon Sep 11 16:51:54 2017

Response Factor Report 5977B

Method Path : D:\MassHunter\GCMS\1\methods\
Method File : 8260VOC-AGO3-LIQ-17.M
Title : Analysis of VOC'S by 8260B,624
Last Update : Mon Sep 11 16:51:45 2017
Response Via : Initial Calibration

Calibration Files
1 =CC82602.D 2 =CC82603.D 3 =CC82604.D 4 =CC82605.D 5 =CC82606.D 6 =CC82607.D 7 =CC82608.D 8 =CC826
01.D

		Compound	1	2	3	4	5	6	7	8	Avg	%RSD
1)	I	IPENTAFLUOROBENZENE	----------ISTD----------									
2)	M	DICLDIFLUOROME...	1.989	2.493				2.624	2.245	2.780	2.426	12.91
3)	P,T	CHLOROMETHANE	2.141	2.494				2.826	2.505	3.160	2.625	14.66
4)	C,T	VINYL CHLORIDE	2.047	2.449				2.646	2.446	2.827	2.483	11.70
5)	T	BROMOMETHANE		0.780	0.694	0.897	0.760	0.731	0.919		0.797	11.45
6)	T	CHLOROETHANE	1.329	1.644	1.082	1.169	1.262			1.397	1.314	14.98
7)	T	TRICLFLUOROMET...	2.788	2.923	3.526	2.644		3.599		3.073	3.092	12.67
8)	T	ACROLEIN	0.275	0.290	0.303	0.274	0.283	0.253	0.316	0.278	0.284	6.81
9)	T	ACETONE	0.455	0.343	0.370	0.365	0.442	0.349	0.362	0.386	0.384	10.93
10)	C,T	11-DICHLOROETHENE	2.407	1.793	2.325	2.129	1.833	1.933	2.211		2.090	11.57
11)	T	IODOMETHANE	3.049	2.846	3.171	3.675	2.901	3.024	3.683		3.193	10.91
12)	T	CARBON DISULFIDE	5.884	4.520	5.729	7.043	4.554	6.359	5.835	5.722	5.706	14.81
13)	T	ACRYLONITRILE	0.419	0.646	0.598	0.444	0.544	0.519	0.539	0.458	0.521	14.95
14)	T	DICHLOROMETHANE	2.541	1.792	1.953	1.866	1.822	2.066	1.899		1.991	12.99
15)	T	TRANS12DICLETHENE	1.611	1.576	2.071	1.795	1.610	2.608	1.840	1.746	1.857	18.51
16)	P,T	11-DICHLOROETHANE	2.843	3.471	3.581	3.468	3.534	3.212	3.518	2.964	3.324	8.53
17)		VINYL ACETATE	2.816	2.831	2.420	3.012	2.877	3.016	3.175	2.498	2.831	9.13
18)		2-BUTANONE	0.585	0.652	0.750	0.658	0.644	0.647	0.610	0.602	0.643	7.85
19)	T	CIS12DICHLOROE...	2.398	2.420	2.079	2.232	1.868	2.513	2.243	2.311	2.258	9.15
20)	T	22-DICHLOROPRO...	2.474	2.424	2.188	2.304	2.555	2.049	2.317	2.275	2.323	6.96
21)	C,T	CHLOROFORM	3.235	3.798	4.269	3.725	3.763	3.700	3.711	4.311	3.814	8.99
22)	T	BROMOCHLOROMET...	1.662	1.685	1.836	2.014	1.643	2.232	1.879	2.424	1.922	14.81
23)	I	I14-DIFLUOROBENZENE	----------ISTD----------									
24)	S	SDIBRFLUOROMET...	0.284	0.283	0.281	0.280	0.277	0.269	0.264	0.291	0.279	3.07
25)	T	TETRAHYDROFURAN	0.902	0.798	1.169	0.752	0.818	0.921	0.856	0.937	0.894	14.33
26)	T	111-TRICHLOROE...	1.191	0.896	1.120	0.967	0.981	0.924	0.988	0.850	0.990	11.51
27)	T	11-DICHLOROPRO...	1.115	0.835	1.050	0.905	0.912	0.847	0.898	0.841	0.925	11.12
28)	T	12-DICHLOROETHANE	0.873	0.882	1.089	0.855	0.823	0.698	0.814	0.742	0.847	13.80
29)	T	CARBONTETRACHL...	0.730	0.648	0.813	0.780	0.789	0.703	0.724	0.565	0.719	11.34
30)	T	BENZENE	2.971	2.720	3.858	2.612	2.750	3.088	2.821	2.448	2.909	14.85
31)	T	TRICHLOROETHENE	0.802	0.813	0.965	0.840	0.848	0.791	0.847	0.597	0.813	12.61
32)	C,T	12-DICHLOROPRO...	0.693	0.781	0.913	0.717	0.799	0.745	0.719	0.598	0.746	12.24
33)	T	DIBROMOMETHANE	0.541	0.687	0.616	0.536	0.696	0.505	0.638	0.478	0.587	14.22
34)	T	BROMODICLMETHANE	0.862	0.881	1.114	0.884	0.967	0.905	0.896	0.726	0.905	12.03
35)	T	2-CLETHYLVINYL...	0.437	0.455	0.544	0.502	0.464	0.399	0.464	0.344	0.451	13.52

Method Path : D:\MassHunter\GCMS\1\methods\
Method File : 8260VOC-AGO3-LIQ-17.M

36)	T	EPICHLOROHYDRIN	0.048	0.047	0.057	0.054	0.050	0.048	0.056	0.043	0.050#	9.25
37)	T	4METHYL-2-PENT...	0.450	0.487	0.527	0.457	0.478	0.397	0.515	0.396	0.463	10.51
38)	T	CIS13DICLPROPENE	0.983	1.014	1.226	1.067	1.090	1.024	1.099	0.776	1.035	12.38
39)	S	STOLUENE-D8	1.276	1.277	1.271	1.273	1.272	1.256	1.237	1.266	1.266	1.06
40)	C,T	TOLUENE	2.673	2.662	3.589	2.905	2.717	2.624	2.649	2.508	2.791	12.22
41)	T	TRANS13DICLPRO...	0.558	0.882	0.733	0.773	0.680	0.775	0.776	0.811	0.748	12.88
42)	T	112-TRICHLOROE...	0.598	0.793	0.588	0.638	0.794	0.739	0.646	0.763	0.695	12.48
43)		2-HEXANONE	0.293	0.286	0.364	0.309	0.292	0.267	0.270	0.245	0.291	12.26
44)	T	13-DICHLOROPRO...	0.858	1.153	1.198	0.854	1.154	1.072	0.917	1.079	1.036	13.45
45)	T	DIBRCHLOROMETHANE	0.556	0.814	0.631	0.679	0.538	0.665	0.733	0.764	0.673	14.35
46)	T	TETRACHLOROETHENE	1.109	0.816	1.010	0.874	0.883	0.824	0.887	0.768	0.896	12.44
47)	T	12-DIBROMOETHANE	0.749	0.794	0.920	0.805	0.809	0.758	0.827	0.585	0.781	12.14
48)	I	CHLOROBENZEN-d5-IS	----------ISTD----------									
49)	P,T	CHLOROBENZENE	0.982	0.942	1.202	0.964	0.952	0.893	0.935	0.891	0.970	10.20
50)		1-CHLOROHEXANE	0.421	0.379	0.528	0.429	0.442	0.425	0.463	0.348	0.429	12.50
51)	T	1112-TETRACLET...	0.318	0.312	0.399	0.326	0.331	0.319	0.345	0.276	0.328	10.61
52)	C,T	ETHYLBENZENE	1.632	1.522	2.013	1.622	1.590	1.456	1.405	1.357	1.575	12.94
53)	T	MP-XYLENE	1.269	1.177	1.544	1.242	1.210	1.075	0.966	1.044	1.191	14.88
54)	T	STYRENE	1.072	1.057	1.353	1.103	1.090	1.025	1.057	0.891	1.081	11.87
55)	T	O-XYLENE	1.294	1.236	1.598	1.297	1.280	1.197	1.219	1.081	1.275	11.62
56)	P,T	BROMOFORM	0.227	0.199	0.179	0.192	0.233	0.159	0.192	0.177	0.195	12.90
57)	P,T	1122-TETRACLET...	0.394	0.401	0.425	0.387	0.406	0.313	0.388	0.268	0.373	14.39
58)	T	ISOPROPYL BENZENE	1.509	1.421	1.932	1.572	1.553	1.438	1.419	1.179	1.503	14.09
59)	S	S4BRFLUOROBENZENE	0.560	0.559	0.562	0.565	0.569	0.575	0.591	0.556	0.567	2.00
60)	T	123-TRICLPROPANE	0.105	0.115	0.159	0.137	0.114	0.121	0.134	0.118	0.125	13.67
61)	T	TRANS14DICL2BU...	0.086	0.084	0.109	0.091	0.088	0.083	0.086	0.074	0.088#	11.33
62)	T	BROMOBENZENE	0.647	0.629	0.794	0.646	0.639	0.609	0.660	0.531	0.644	11.26
63)	T	N-PROPYLBENZENE	1.849	1.734	2.316	1.884	1.863	1.713	1.678	1.454	1.811	13.62
64)	T	2-CHLOROTOLUENE	1.075	1.018	1.309	1.058	1.044	0.987	1.036	0.931	1.057	10.53
65)	T	4-CHLOROTOLUENE	1.282	1.218	1.563	1.269	1.254	1.180	1.224	1.092	1.260	10.83
66)	T	135TRIMETHYLBE...	1.333	1.280	1.690	1.373	1.362	1.272	1.277	1.079	1.333	12.81
67)	T	TERT-BUTYLBENZENE	1.088	1.013	1.371	1.122	1.118	1.058	1.108	0.837	1.089	13.52
68)	T	124TRIMETHYLBE...	1.312	1.261	1.628	1.321	1.321	1.236	1.263	1.083	1.303	11.69
69)	T	SEC-BUTYLBENZENE	1.520	1.412	1.920	1.563	1.569	1.455	1.455	1.182	1.510	13.67
70)	T	13-DICHLOROBEN...	0.798	0.779	0.977	0.794	0.794	0.760	0.808	0.715	0.803	9.48
71)	I	I14-DICLBENZENE-D4	----------ISTD----------									
72)	T	4-ISOPROPYLTOL...	1.750	1.414	2.048	1.762	1.315	1.599	1.593	1.411	1.612	14.83
73)	T	14-DICHLOROBEN...	1.024	0.752	1.039	0.947	0.756	0.863	0.928	0.738	0.881	13.90
74)	T	12-DICHLOROBEN...	0.990	0.730	1.010	0.923	0.727	0.830	0.873	0.812	0.862	12.52
75)	T	N-BUTYLBENZENE	1.469	1.140	1.570	1.440	1.044	1.233	1.322	1.092	1.289	14.92
76)	T	12-DIBR-3CLPRO...	0.088	0.068	0.079	0.086	0.082	0.077	0.099	0.063	0.080#	14.25
77)		124-TRICLBENZENE	0.521	0.608	0.439	0.466	0.377	0.520	0.473	0.462	0.483	14.09
78)	T	NAPHTHALENE	1.415	1.223	1.431	1.425	1.009	1.086	1.267	1.029	1.235	14.47
79)	T	HEXACHLOROBUTA...	0.149	0.151	0.171	0.172	0.176	0.193	0.118	0.160	0.161	14.08
80)		123-TRICLBENZENE	0.449	0.530	0.471	0.376	0.537	0.428	0.379	0.384	0.444	14.63

Method Path : D:\MassHunter\GCMS\1\methods\
Method File : 8260VOC-AGO3-LIQ-17.M

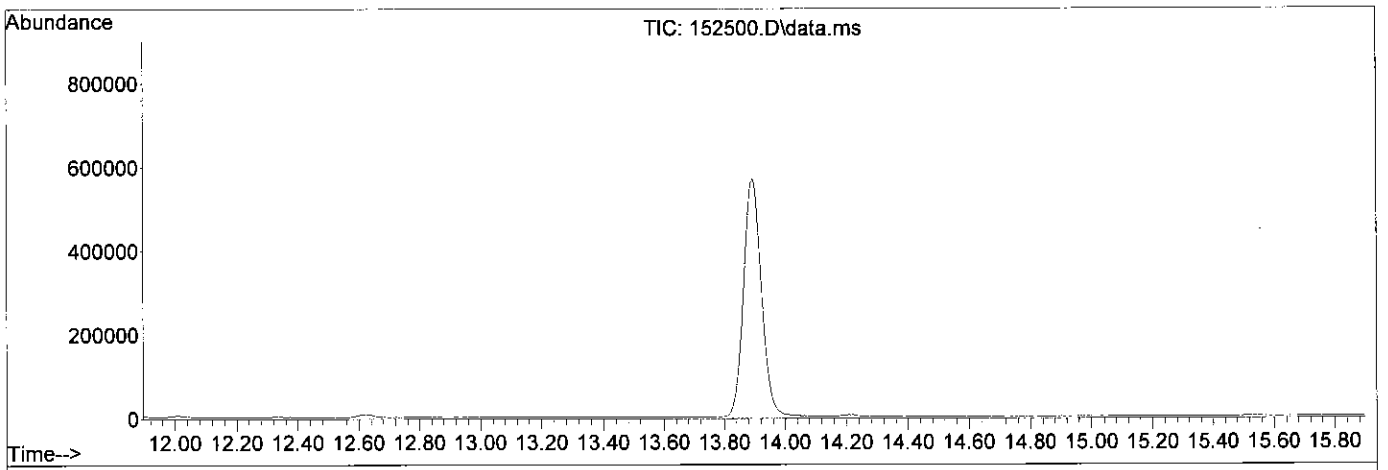
(#) = Out of Range

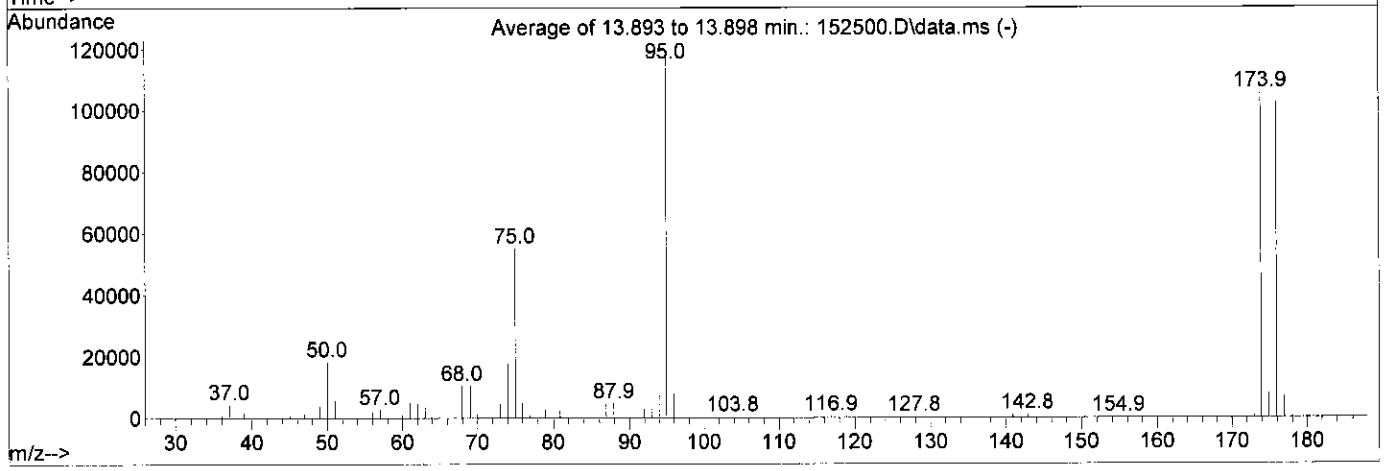
Method VOC

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152500.D
Acq On : 08 Sep 2017 02:15 pm
Operator : NIVA
Sample : BFB
Misc : RUN191525
ALS Vial : 1 Sample Multiplier: 1

Integration File: VOC.P

Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Title : Analysis of VOC'S by 8260B,624
Last Update : Mon Sep 11 17:01:15 2017





AutoFind: Scans 4592, 4593, 4594; Background Corrected with Scan 4555

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.7	18387	PASS
75	95	30	60	47.1	55216	PASS
95	95	100	100	100.0	117221	PASS
96	95	5	9	6.8	7931	PASS
173	174	0.00	2	0.4	408	PASS
174	95	50	150	90.0	105531	PASS
175	174	5	9	7.5	7877	PASS
176	174	95	101	96.9	102309	PASS
177	176	5	9	6.8	6971	PASS

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152501.D
Acq On : 08 Sep 2017 02:44 pm
Operator : NIVA
Sample : LRB/2727005
Misc : RUN191525
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 12 08:52:09 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IPENTAFLUOROBENZENE	5.842	168	156754	20.00 µg/L	# 0.00
23) I14-DIFLUOROBENZENE	6.815	114	551966	20.00 µg/L	0.00
48) CHLOROBENZEN-d5-IS	11.561	117	1820901	20.00 µg/L	0.00
71) I14-DICLBENZENE-D4	16.221	152	2219	20.00 µg/L	-0.08
System Monitoring Compounds					
24) SDIBRFLUOROMETHANE	5.856	111	148779	19.99 µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 99.95%		
39) STOLUENE-D8	8.996	98	908900	19.52 µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 97.60%		
59) S4BRFLUOROBENZENE	13.893	95	1231934	19.73 µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 98.65%		
Target Compounds					Qvalue
2) DICLDIFLUOROMETHANE	2.138	85	58	N.D.	
3) CHLOROMETHANE	2.150	50	758	N.D.	
4) VINYL CHLORIDE	0.000		0	N.D.	
5) BROMOMETHANE	2.529	94	938	N.D.	
6) CHLOROETHANE	2.746	64	1334	N.D.	
7) TRICLFLUOROMETHANE	0.000		0	N.D.	
8) ACROLEIN	3.530	56	235	N.D.	
9) ACETONE	3.491	43	1411	N.D.	
10) 11-DICHLOROETHENE	4.138	61	33	N.D.	
11) IODOMETHANE	3.536	142	874	N.D.	
12) CARBON DISULFIDE	3.572	76	2417	N.D.	
13) ACRYLONITRILE	4.188	53	114	N.D.	
14) DICHLOROMETHANE	0.000		0	N.D. d	
15) TRANS12DICLETHENE	3.934	96	268	N.D.	
16) 11-DICHLOROETHANE	4.138	63	28	N.D.	
17) VINYL ACETATE	4.645	43	205	N.D.	
18) 2-BUTANONE	5.323	43	500	N.D.	
19) CIS12DICHLOROETHENE	5.239	96	56	N.D.	
20) 22-DICHLOROPROPANE	5.256	77	89	N.D.	
21) CHLOROFORM	5.644	83	1512	N.D.	
22) BROMOCHLOROMETHANE	5.608	49	140	N.D.	
25) TETRAHYDROFURAN	5.635	42	788	N.D.	
26) 111-TRICHLOROETHANE	0.000		0	N.D.	
27) 11-DICHLOROPROPENE	5.836	75	8477	N.D.	
28) 12-DICHLOROETHANE	0.000		0	N.D.	
29) CARBONTETRACHLORIDE	5.939	117	27	N.D.	
30) BENZENE	6.288	78	1182	N.D.	
31) TRICHLOROETHENE	0.000		0	N.D.	
32) 12-DICHLOROPROPANE	0.000		0	N.D.	
33) DIBROMOMETHANE	0.000		0	N.D.	
34) BROMODICLMETHANE	0.000		0	N.D.	
35) 2-CLETHYLVINYLETHER	0.000		0	N.D.	
36) EPICHLOROHYDRIN	8.817	57	28	N.D.	
37) 4METHYL-2-PENTANONE	8.890	43	309	N.D.	
38) CIS13DICLPROPENE	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152501.D
Acq On : 08 Sep 2017 02:44 pm
Operator : NIVA
Sample : LRB/2727005
Misc : RUN191525
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 12 08:52:09 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration

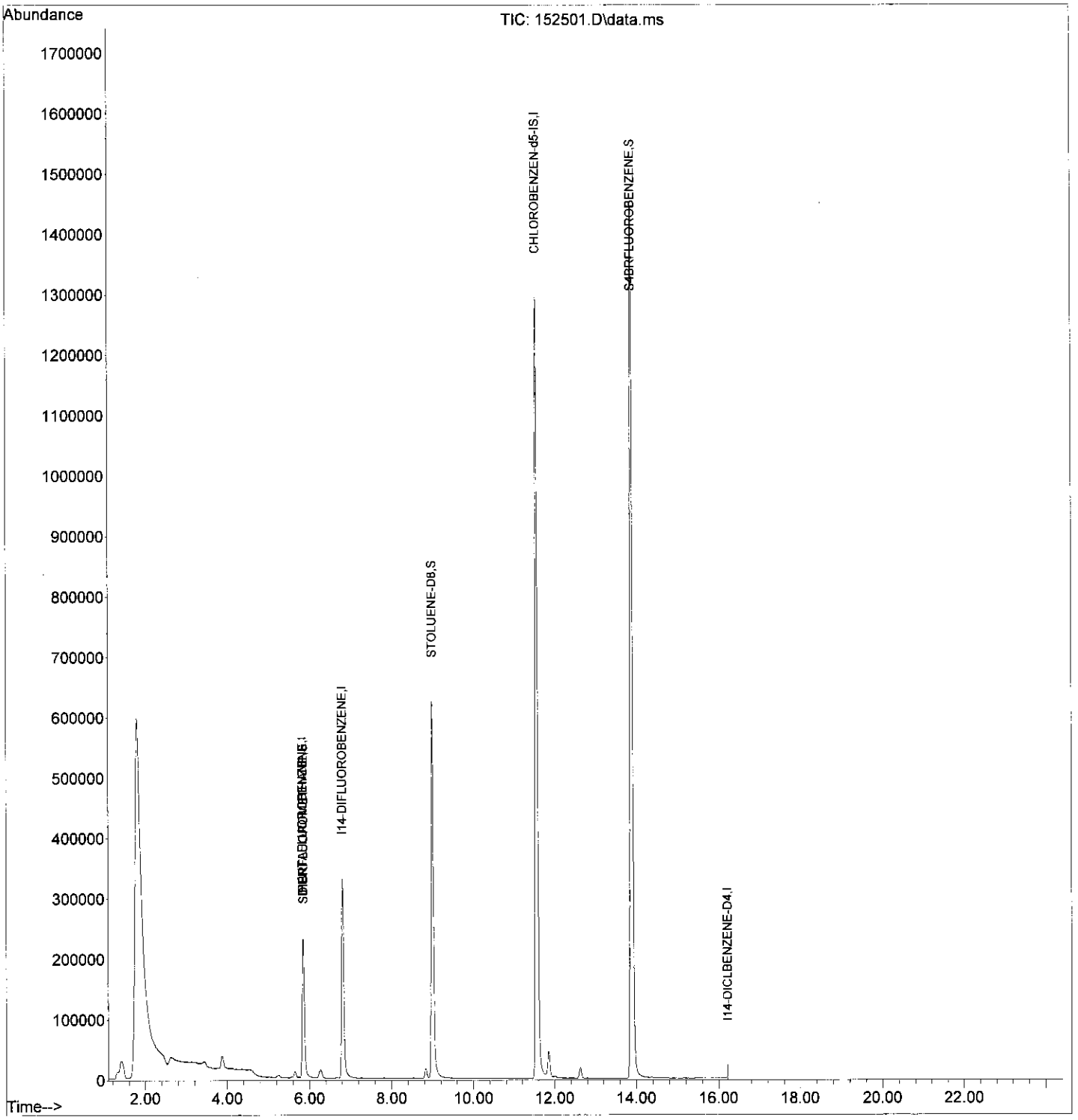
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) TOLUENE	9.107	91	2257	N.D.	
41) TRANS13DICLPROPENE	0.000		0	N.D.	
42) 112-TRICHLOROETHANE	0.000		0	N.D.	
43) 2-HEXANONE	10.332	43	266	N.D.	
44) 13-DICHLOROPROPANE	0.000		0	N.D.	
45) DIBRCHLOROMETHANE	0.000		0	N.D.	
46) TETRACHLOROETHENE	0.000		0	N.D.	
47) 12-DIBROMOETHANE	0.000		0	N.D.	
49) CHLOROBENZENE	11.617	112	55	N.D.	
50) 1-CHLOROHEXANE	11.542	91	690	N.D.	
51) 1112-TETRACLETHANE	0.000		0	N.D.	
52) ETHYLBENZENE	11.790	91	2714	N.D.	
53) MP-XYLENE	12.019	91	3997	N.D.	
54) STYRENE	0.000		0	N.D.	
55) O-XYLENE	12.805	91	575	N.D.	
56) BROMOFORM	0.000		0	N.D.	
57) 1122-TETRACLETHANE	0.000		0	N.D.	
58) ISOPROPYL BENZENE	13.519	105	59	N.D.	
60) 123-TRICLPROPANE	0.000		0	N.D.	
61) TRANS14DICL2BUTENE	0.000		0	N.D.	
62) BROMOBENZENE	13.948	77	161	N.D.	
63) N-PROPYLBENZENE	14.372	91	1374	N.D.	
64) 2-CHLOROTOLUENE	14.598	91	28	N.D.	
65) 4-CHLOROTOLUENE	14.796	91	27	N.D.	
66) 135TRIMETHYLBENZENE	14.740	105	113	N.D.	
67) TERT-BUTYLBENZENE	0.000		0	N.D.	
68) 124TRIMETHYLBENZENE	15.530	105	819	N.D.	
69) SEC-BUTYLBENZENE	15.864	105	238	N.D.	
70) 13-DICHLOROBENZENE	0.000		0	N.D.	
72) 4-ISOPROPYLTOLUENE	0.000		0	N.D.	d
73) 14-DICHLOROBENZENE	0.000		0	N.D.	
74) 12-DICHLOROBENZENE	0.000		0	N.D.	
75) N-BUTYLBENZENE	0.000		0	N.D.	
76) 12-DIBR-3CLPROPANE	0.000		0	N.D.	
77) 124-TRICLBENZENE	0.000		0	N.D.	
78) NAPHTHALENE	0.000		0	N.D.	
79) HEXACHLOROBUTADIENE	0.000		0	N.D.	
80) 123-TRICLBENZENE	0.000		0	N.D.	

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

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152501.D
Acq On : 08 Sep 2017 02:44 pm
Operator : NIVA
Sample : LRB/2727005
Misc : RUN191525
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 12 08:52:09 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152503.D
Acq On : 08 Sep 2017 03:44 pm
Operator : NIVA
Sample : MDL/2727008
Misc : RUN191525
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 12 08:53:03 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IPENTAFLUOROBENZENE	5.836	168	163088	20.00	µg/L	0.00
23) I14-DIFLUOROBENZENE	6.812	114	583479	20.00	µg/L	0.00
48) CHLOROBENZEN-d5-IS	11.564	117	1915734	20.00	µg/L	0.00
71) I14-DICLBENZENE-D4	16.308	152	1812786	20.00	µg/L	0.00
System Monitoring Compounds						
24) SDIBRFLUOROMETHANE	5.850	111	155462	19.76	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 98.80%			
39) STOLUENE-D8	8.990	98	969616	19.70	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 98.50%			
59) S4BRFLUOROBENZENE	13.895	95	1301085	19.80	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 99.00%			
Target Compounds						Qvalue
2) DICLDIFLUOROMETHANE	3.845	85	670m	1.25	µg/L	
3) CHLOROMETHANE	2.122	50	11087	1.10	µg/L #	71
4) VINYL CHLORIDE	2.226	62	9033	0.80	µg/L #	69
5) BROMOMETHANE	2.529	94	10693	1.42	µg/L #	93
6) CHLOROETHANE	2.618	64	13154m	1.04	µg/L	
7) TRICLFLUOROMETHANE	2.849	101	20934	0.79	µg/L #	88
8) ACROLEIN	3.315	56	107195	29.97	µg/L #	98
9) ACETONE	3.474	43	44613	6.82	µg/L	95
10) 11-DICHLOROETHENE	4.113	61	26713	1.03	µg/L #	89
11) IODOMETHANE	3.527	142	174560	4.92	µg/L	99
12) CARBON DISULFIDE	3.569	76	323163	4.84	µg/L #	99
13) ACRYLONITRILE	4.182	53	45825	5.89	µg/L #	95
14) DICHLOROMETHANE	3.876	84	71708	1.78	µg/L	98
15) TRANS12DICLETHENE	4.116	96	21772	1.04	µg/L #	90
16) 11-DICHLOROETHANE	4.592	63	43130m	1.08	µg/L	
17) VINYL ACETATE	4.631	43	253072	5.27	µg/L	99
18) 2-BUTANONE	5.317	43	60689	5.81	µg/L	98
19) CIS12DICHLOROETHENE	5.253	96	30660	1.08	µg/L	96
20) 22-DICHLOROPROPANE	5.212	77	26423	0.96	µg/L	97
21) CHLOROFORM	5.644	83	52931	1.11	µg/L #	99
22) BROMOCHLOROMETHANE	5.549	49	23729	1.03	µg/L	99
25) TETRAHYDROFURAN	5.627	42	52373	1.14	µg/L	96
26) 111-TRICHLOROETHANE	5.800	97	31698	0.93	µg/L #	77
27) 11-DICHLOROPROPENE	6.003	75	28225	0.93	µg/L	95
28) 12-DICHLOROETHANE	6.383	62	41779	1.16	µg/L #	52
29) CARBONTETRACHLORIDE	5.984	117	22537	0.83	µg/L #	95
30) BENZENE	6.288	78	107674	1.07	µg/L #	96
31) TRICHLOROETHENE	7.158	132	28945	1.02	µg/L	93
32) 12-DICHLOROPROPANE	7.518	63	29039	1.09	µg/L	97
33) DIBROMOMETHANE	7.732	174	22812	1.08	µg/L	95
34) BROMODICLMETHANE	7.961	83	37232	1.05	µg/L #	27
35) 2-CLETHYLVINYLETHER	8.405	63	82484	6.60	µg/L	97
36) EPICHLOROHYDRIN	8.572	57	67367	29.29	µg/L	98
37) 4METHYL-2-PENTANONE	8.893	43	133065	5.71	µg/L	96
38) CIS13DICLPROPENE	8.630	75	41458	1.02	µg/L	97

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152503.D
Acq On : 08 Sep 2017 03:44 pm
Operator : NIVA
Sample : MDL/2727008
Misc : RUN191525
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 12 08:53:03 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration

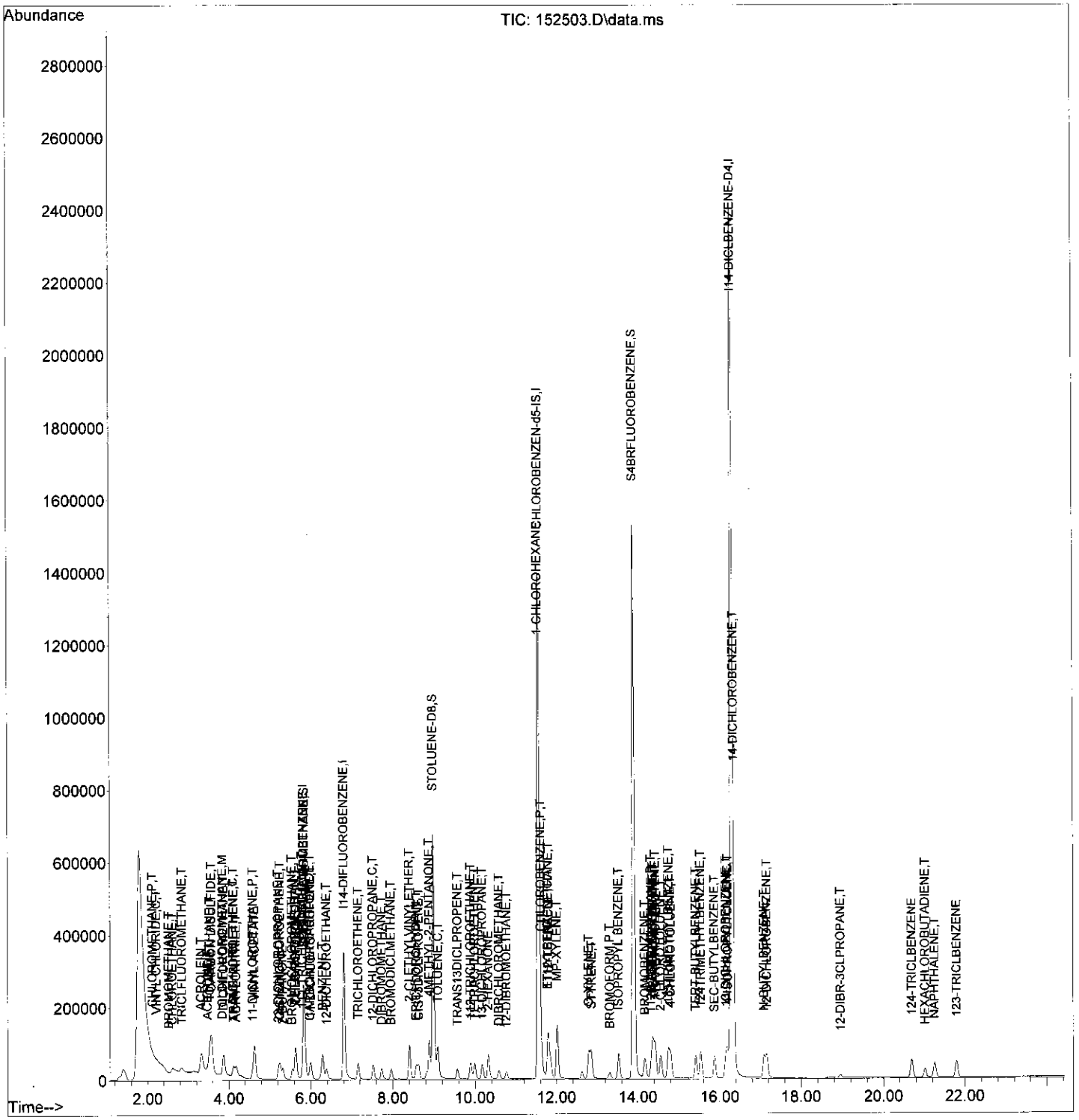
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) TOLUENE	9.107	91	121493	1.04 µg/L	98
41) TRANS13DICLPROPENE	9.581	75	31765	0.98 µg/L	98
42) 112-TRICHLOROETHANE	9.902	97	31096	1.14 µg/L	99
43) 2-HEXANONE	10.326	43	88433	5.60 µg/L	98
44) 13-DICHLOROPROPANE	10.178	76	55115	1.14 µg/L	98
45) DIBRCHLOROMETHANE	10.585	129	28882	1.02 µg/L	98
46) TETRACHLOROETHENE	10.000	166	27121	0.93 µg/L	99
47) 12-DIBROMOETHANE	10.772	107	30542	1.11 µg/L #	7
49) CHLOROBENZENE	11.614	112	87578	1.13 µg/L	91
50) 1-CHLOROHEXANE	11.545	91	32162	0.96 µg/L #	54
51) 1112-TETRACLETHANE	11.796	133	27143	1.06 µg/L #	59
52) ETHYLBENZENE	11.787	91	127239	1.03 µg/L	97
53) MP-XYLENE	12.013	91	197879	2.07 µg/L	100
54) STYRENE	12.864	104	89860	1.06 µg/L	94
55) O-XYLENE	12.794	91	104788	1.05 µg/L	99
56) BROMOFORM	13.307	173	19005	1.03 µg/L	98
57) 1122-TETRACLETHANE	14.328	83	41621	1.16 µg/L	97
58) ISOPROPYL BENZENE	13.516	105	107277	0.94 µg/L	100
60) 123-TRICLPROPANE	14.372	110	13780	1.19 µg/L	79
61) TRANS14DICL2BUTENE	14.434	53	49475	5.43 µg/L #	75
62) BROMOBENZENE	14.177	77	55616	1.10 µg/L	94
63) N-PROPYLBENZENE	14.370	91	137343	0.97 µg/L	97
64) 2-CHLOROTOLUENE	14.562	91	88828	1.07 µg/L	99
65) 4-CHLOROTOLUENE	14.799	91	107177	1.08 µg/L	97
66) 135TRIMETHYLBENZENE	14.749	105	100576	0.98 µg/L	98
67) TERT-BUTYLBENZENE	15.407	119	77407	0.94 µg/L	98
68) 124TRIMETHYLBENZENE	15.530	105	102286	1.01 µg/L	96
69) SEC-BUTYLBENZENE	15.873	105	103304	0.90 µg/L	99
70) 13-DICHLOROBENZENE	16.154	146	72378	1.12 µg/L	99
72) 4-ISOPROPYLTOLUENE	16.199	119	94922	0.94 µg/L	99
73) 14-DICHLOROBENZENE	16.349	146	78534	1.19 µg/L #	1
74) 12-DICHLOROBENZENE	17.164	146	74076	1.17 µg/L	99
75) N-BUTYLBENZENE	17.091	91	80202	0.93 µg/L	98
76) 12-DIBR-3CLPROPANE	18.960	157	6916m	1.24 µg/L	
77) 124-TRICLBENZENE	20.689	180	47739	1.11 µg/L	97
78) NAPHTHALENE	21.249	128	97970	1.07 µg/L	99
79) HEXACHLOROBUTADIENE	21.015	225	14716	0.99 µg/L	86
80) 123-TRICLBENZENE	21.790	182	43556	1.14 µg/L	98

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

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152503.D
Acq On : 08 Sep 2017 03:44 pm
Operator : NIVA
Sample : MDL/2727008
Misc : RUN191525
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 12 08:53:03 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152504.D
Acq On : 08 Sep 2017 04:13 pm
Operator : NIVA
Sample : ICV/2727006
Misc : RUN191525
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 12 08:54:56 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IPENTAFLUOROBENZENE	1.000	1.000	0.0	107	0.00
2	M	DICLDIFLUOROMETHANE	0.066	0.064#	3.0	80	0.00
3	P,T	CHLOROMETHANE	1.231	0.999	18.8	80	-0.03
4	C,T	VINYL CHLORIDE	1.380	1.491	-8.0	104	0.00
5	T	BROMOMETHANE	0.925	0.772	16.5	97	-0.02
6	T	CHLOROETHANE	1.545	1.409	8.8	65	-0.02
7	T	TRICLFLUOROMETHANE	3.263	3.544	-8.6	103	-0.02
8	T	ACROLEIN	0.439	0.387	11.8	103	-0.01
9	T	ACETONE	0.802	0.775	3.4	121	0.00
10	C,T	11-DICHLOROETHENE	3.182	3.062	3.8	102	0.00
11	T	IODOMETHANE	4.348	4.232	2.7	100	0.00
12	T	CARBON DISULFIDE	8.193	8.116	0.9	102	0.00
13	T	ACRYLONITRILE	0.954	0.813	14.8	94	0.00
14	T	DICHLOROMETHANE	4.937	4.193	15.1	145	0.00
15	T	TRANS12DICLETHENE	2.577	2.497	3.1	104	0.00
16	P,T	11-DICHLOROETHANE	4.890	4.603	5.9	104	0.00
17		VINYL ACETATE	5.892	5.298	10.1	92	0.00
18		2-BUTANONE	1.282	1.104	13.9	95	0.00
19	T	CIS12DICHLOROETHENE	3.473	3.287	5.4	105	0.00
20	T	22-DICHLOROPROPANE	3.373	3.566	-5.7	115	0.00
21	C,T	CHLOROFORM	5.863	5.440	7.2	103	0.00
22	T	BROMOCHLOROMETHANE	2.821	2.705	4.1	102	0.00
23	I	I14-DIFLUOROBENZENE	1.000	1.000	0.0	109	0.00
24	S	SDIBRFLUOROMETHANE	0.270	0.266	1.5	104	0.00
25	T	TETRAHYDROFURAN	1.570	1.356	13.6	94	-0.02
26	T	111-TRICHLOROETHANE	1.170	1.178	-0.7	103	0.00
27	T	11-DICHLOROPROPENE	1.045	1.077	-3.1	107	0.00
28	T	12-DICHLOROETHANE	1.240	1.103	11.0	101	0.00
29	T	CARBONTETRACHLORIDE	0.935	0.974	-4.2	100	0.00
30	T	BENZENE	3.450	3.281	4.9	105	0.00
31	T	TRICHLOROETHENE	0.970	0.948	2.3	106	0.00
32	C,T	12-DICHLOROPROPANE	0.913	0.852	6.7	104	0.00
33	T	DIBROMOMETHANE	0.722	0.664	8.0	100	0.00
34	T	BROMODICLMETHANE	1.211	1.123	7.3	99	0.00
35	T	2-CLETHYLVINYLETHER	0.428	0.476	-11.2	212#	0.00
36	T	EPICHLOROHYDRIN	0.079	0.069#	12.7	100	0.00
37	T	4METHYL-2-PENTANONE	0.798	0.695	12.9	96	0.00
38	T	CIS13DICLPROPENE	1.387	1.331	4.0	103	0.00
39	S	STOLUENE-D8	1.687	1.682	0.3	106	0.00
40	C,T	TOLUENE	3.996	3.847	3.7	105	0.00
41	T	TRANS13DICLPROPENE	1.106	1.067	3.5	100	0.00
42	T	112-TRICHLOROETHANE	0.939	0.840	10.5	100	0.00
43		2-HEXANONE	0.541	0.475	12.2	95	0.00
44	T	13-DICHLOROPROPANE	1.656	1.481	10.6	101	0.00
45	T	DIBRCHLOROMETHANE	0.969	0.893	7.8	95	0.00

46	T	TETRACHLOROETHENE	0.997	1.023	-2.6	107	0.00
47	T	12-DIBROMOETHANE	0.941	0.844	10.3	98	0.00
48	I	CHLOROBENZEN-d5-IS	1.000	1.000	0.0	104	0.00
49	P,T	CHLOROBENZENE	0.813	0.762	6.3	104	0.00
50		1-CHLOROHEXANE	0.349	0.358	-2.6	106	0.00
51	T	1112-TETRACLETHANE	0.266	0.252	5.3	100	0.00
52	C,T	ETHYLBENZENE	1.290	1.280	0.8	106	0.00
53	T	MP-XYLENE	0.998	0.987	1.1	106	0.00
54	T	STYRENE	0.888	0.864	2.7	104	0.00
55	T	O-XYLENE	1.042	1.020	2.1	105	0.00
56	P,T	BROMOFORM	0.192	0.173	9.9	88	0.00
57	P,T	1122-TETRACLETHANE	0.374	0.325	13.1	93	0.00
58	T	ISOPROPYL BENZENE	1.195	1.241	-3.8	106	0.00
59	S	S4BRFLUOROBENZENE	0.686	0.691	-0.7	105	0.00
60	T	123-TRICLPROPANE	0.121	0.105	13.2	96	0.00
61	T	TRANS14DICL2BUTENE	0.095	0.087#	8.4	96	0.00
62	T	BROMOBENZENE	0.526	0.500	4.9	105	0.00
63	T	N-PROPYLBENZENE	1.482	1.513	-2.1	105	0.00
64	T	2-CHLOROTOLUENE	0.864	0.837	3.1	106	0.00
65	T	4-CHLOROTOLUENE	1.037	0.999	3.7	105	0.00
66	T	135TRIMETHYLBENZENE	1.073	1.088	-1.4	105	0.00
67	T	TERT-BUTYLBENZENE	0.863	0.894	-3.6	105	0.00
68	T	124TRIMETHYLBENZENE	1.054	1.050	0.4	105	0.00
69	T	SEC-BUTYLBENZENE	1.192	1.259	-5.6	106	0.00
70	T	13-DICHLOROBENZENE	0.673	0.631	6.2	104	0.00
71	I	I14-DICLBENZENE-D4	1.000	1.000	0.0	103	0.00
72	T	4-ISOPROPYLTOLUENE	1.117	1.162	-4.0	105	0.00
73	T	14-DICHLOROBENZENE	0.727	0.658	9.5	104	0.00
74	T	12-DICHLOROBENZENE	0.700	0.636	9.1	102	0.00
75	T	N-BUTYLBENZENE	0.948	0.997	-5.2	107	0.00
76	T	12-DIBR-3CLPROPANE	0.061	0.064#	-4.9	87	0.00
77		124-TRICLBENZENE	0.475	0.446	6.1	102	0.00
78	T	NAPHTHALENE	1.007	0.926	8.0	95	0.00
79	T	HEXACHLOROBUTADIENE	0.164	0.164	0.0	103	0.00
80		123-TRICLBENZENE	0.422	0.382	9.5	98	0.00

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

8260VOC-AGO3-LIQ-17.M Tue Sep 12 09:12:21 2017

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152504.D
Acq On : 08 Sep 2017 04:13 pm
Operator : NIVA
Sample : ICV/2727006
Misc : RUN191525
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 12 08:54:56 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IPENTAFLUOROBENZENE	5.836	168	165042	20.00	µg/L	# 0.00
23) I14-DIFLUOROBENZENE	6.812	114	590745	20.00	µg/L	0.00
48) CHLOROBENZEN-d5-IS	11.561	117	1977945	20.00	µg/L	0.00
71) I14-DICLBENZENE-D4	16.305	152	1912611	20.00	µg/L	0.00
System Monitoring Compounds						
24) SDIBRFLUOROMETHANE	5.853	111	156900	19.70	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 98.50%			
39) STOLUENE-D8	8.993	98	993764	19.94	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 99.70%			
59) S4BRFLUOROBENZENE	13.896	95	1367630	20.16	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 100.80%			
Target Compounds						Qvalue
2) DICLDIFLUOROMETHANE	1.941	85	10552m	19.48	µg/L	
3) CHLOROMETHANE	2.119	50	164877	16.24	µg/L	98
4) VINYL CHLORIDE	2.237	62	246127	21.61	µg/L	98
5) BROMOMETHANE	2.518	94	127442m	16.70	µg/L	
6) CHLOROETHANE	2.618	64	232484m	18.23	µg/L	
7) TRICLFLUOROMETHANE	2.833	101	584898	21.72	µg/L	98
8) ACROLEIN	3.313	56	1597584	441.34	µg/L	100
9) ACETONE	3.480	43	639541m	96.58	µg/L	
10) 11-DICHLOROETHENE	4.107	61	505401	19.25	µg/L	99
11) IODOMETHANE	3.522	142	3492367	97.34	µg/L	100
12) CARBON DISULFIDE	3.569	76	6697714	99.06	µg/L	99
13) ACRYLONITRILE	4.183	53	670555	85.16	µg/L	98
14) DICHLOROMETHANE	3.873	84	692023m	16.99	µg/L	
15) TRANS12DICLETHENE	4.110	96	412112	19.38	µg/L	99
16) 11-DICHLOROETHANE	4.584	63	759665	18.82	µg/L	99
17) VINYL ACETATE	4.634	43	4372241	89.93	µg/L	99
18) 2-BUTANONE	5.312	43	911290	86.16	µg/L	97
19) CIS12DICHLOROETHENE	5.251	96	542548	18.93	µg/L	93
20) 22-DICHLOROPROPANE	5.212	77	588493	21.14	µg/L	94
21) CHLOROFORM	5.644	83	897842	18.56	µg/L	100
22) BROMOCHLOROMETHANE	5.555	49	446474	19.18	µg/L	91
25) TETRAHYDROFURAN	5.610	42	801148	17.27	µg/L	97
26) 111-TRICHLOROETHANE	5.803	97	695972	20.13	µg/L #	77
27) 11-DICHLOROPROPENE	6.004	75	636404	20.61	µg/L	99
28) 12-DICHLOROETHANE	6.380	62	651665	17.79	µg/L	99
29) CARBONTETRACHLORIDE	5.987	117	575513	20.83	µg/L	99
30) BENZENE	6.288	78	1938307	19.02	µg/L	99
31) TRICHLOROETHENE	7.155	132	560119	19.55	µg/L	98
32) 12-DICHLOROPROPANE	7.523	63	503593	18.67	µg/L	98
33) DIBROMOMETHANE	7.733	174	392235	18.38	µg/L	97
34) BROMODICLMETHANE	7.961	83	663482	18.55	µg/L	100
35) 2-CLETHYLVINYLETHER	8.405	63	1405779	111.12	µg/L	96
36) EPICHLOROHYDRIN	8.569	57	1021349	438.55	µg/L	99
37) 4METHYL-2-PENTANONE	8.884	43	2051948	87.03	µg/L	99
38) CIS13DICLPROPENE	8.631	75	786532	19.20	µg/L	97

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152504.D
Acq On : 08 Sep 2017 04:13 pm
Operator : NIVA
Sample : ICV/2727006
Misc : RUN191525
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 12 08:54:56 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration

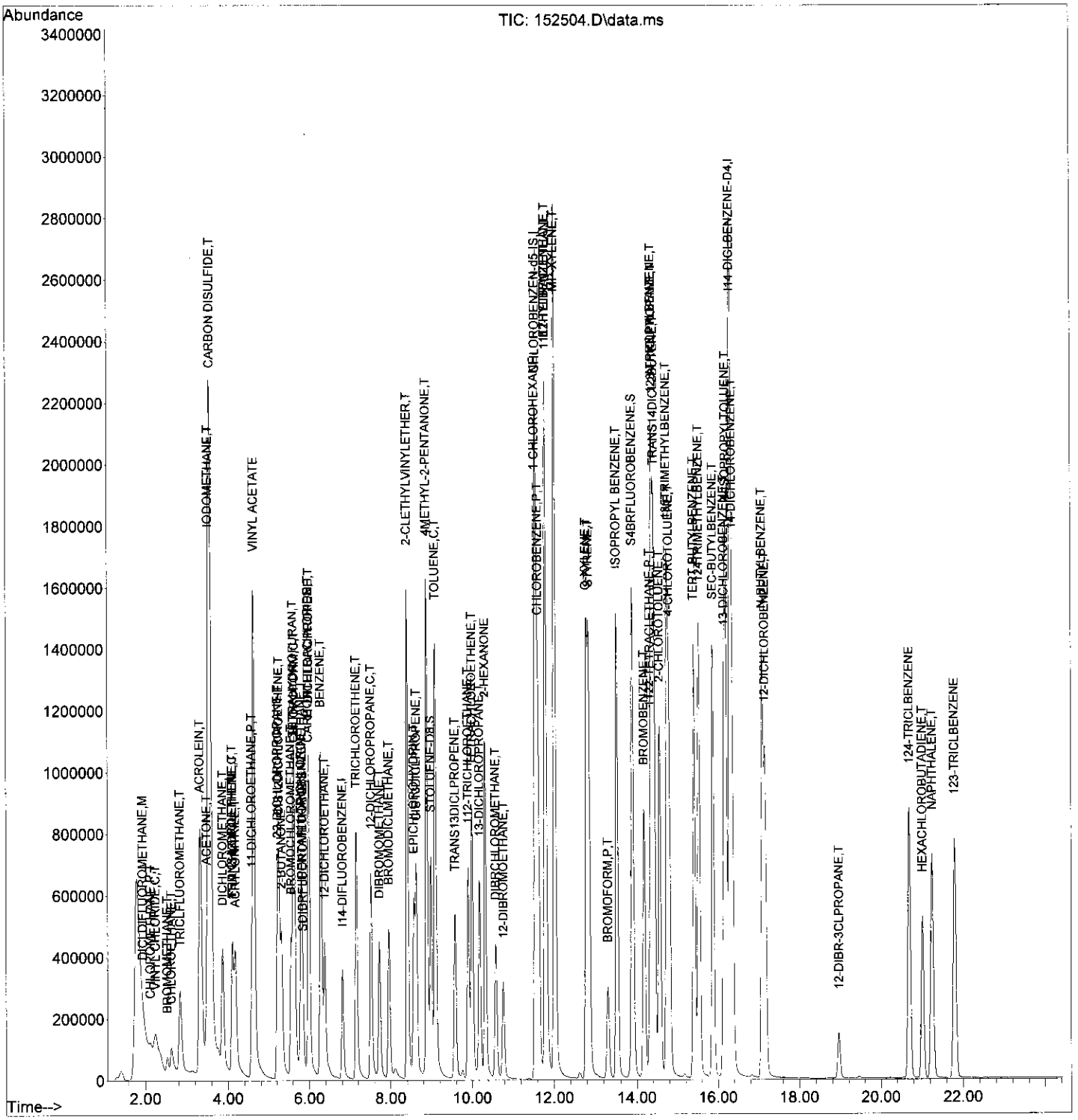
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) TOLUENE	9.105	91	2272886	19.26 µg/L	100
41) TRANS13DICLPROPENE	9.576	75	630032	19.29 µg/L	99
42) 112-TRICHLOROETHANE	9.899	97	496498	17.91 µg/L	98
43) 2-HEXANONE	10.318	43	1401866	87.71 µg/L	99
44) 13-DICHLOROPROPANE	10.178	76	874634	17.88 µg/L	98
45) DIBRCHLOROMETHANE	10.580	129	527584	18.44 µg/L	99
46) TETRACHLOROETHENE	9.994	166	604531	20.52 µg/L	98
47) 12-DIBROMOETHANE	10.769	107	498426	17.92 µg/L	100
49) CHLOROBENZENE	11.614	112	1506852	18.75 µg/L	97
50) 1-CHLOROHEXANE	11.539	91	708402	20.54 µg/L	95
51) 1112-TETRACLETHANE	11.796	133	499226	18.95 µg/L	98
52) ETHYLBENZENE	11.790	91	2530932	19.84 µg/L	99
53) MP-XYLENE	12.013	91	3903369	39.56 µg/L	99
54) STYRENE	12.853	104	1708587	19.45 µg/L	89
55) O-XYLENE	12.791	91	2018435	19.58 µg/L	91
56) BROMOFORM	13.304	173	342047	18.00 µg/L	97
57) 1122-TETRACLETHANE	14.331	83	642089	17.37 µg/L	99
58) ISOPROPYL BENZENE	13.519	105	2455108	20.77 µg/L	99
60) 123-TRICLPROPANE	14.384	110	207939	17.36 µg/L	96
61) TRANS14DICL2BUTENE	14.428	53	865348	91.98 µg/L	96
62) BROMOBENZENE	14.177	77	988002	19.00 µg/L	97
63) N-PROPYLBENZENE	14.370	91	2992053	20.41 µg/L	98
64) 2-CHLOROTOLUENE	14.562	91	1655815	19.39 µg/L	99
65) 4-CHLOROTOLUENE	14.799	91	1976324	19.27 µg/L	99
66) 135TRIMETHYLBENZENE	14.743	105	2151415	20.28 µg/L	99
67) TERT-BUTYLBENZENE	15.410	119	1768119	20.72 µg/L	97
68) 124TRIMETHYLBENZENE	15.535	105	2077625	19.93 µg/L	99
69) SEC-BUTYLBENZENE	15.876	105	2491038	21.12 µg/L	99
70) 13-DICHLOROBENZENE	16.154	146	1248414	18.75 µg/L	99
72) 4-ISOPROPYLTOLUENE	16.202	119	2223393	20.82 µg/L	100
73) 14-DICHLOROBENZENE	16.355	146	1258893	18.10 µg/L	95
74) 12-DICHLOROBENZENE	17.158	146	1216960	18.19 µg/L	100
75) N-BUTYLBENZENE	17.089	91	1906397	21.03 µg/L	98
76) 12-DIBR-3CLPROPANE	18.960	157	122490	20.87 µg/L	98
77) 124-TRICLBENZENE	20.694	180	853394	18.77 µg/L	99
78) NAPHTHALENE	21.249	128	1771828	18.40 µg/L	99
79) HEXACHLOROBUTADIENE	21.015	225	313863	20.02 µg/L	97
80) 123-TRICLBENZENE	21.790	182	729713	18.09 µg/L	99

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

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152504.D
Acq On : 08 Sep 2017 04:13 pm
Operator : NIVA
Sample : ICV/2727006
Misc : RUN191525
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 12 08:54:56 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152505.D
Acq On : 08 Sep 2017 04:44 pm
Operator : NIVA
Sample : 2721713
Misc : RUN191525
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 12 08:56:48 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IPENTAFLUOROBENZENE	5.833	168	158271	20.00	µg/L	# 0.00
23) I14-DIFLUOROBENZENE	6.809	114	565010	20.00	µg/L	0.00
48) CHLOROBENZEN-d5-IS	11.564	117	1868861	20.00	µg/L	0.00
71) I14-DICLBENZENE-D4	16.305	152	1782133	20.00	µg/L	0.00
System Monitoring Compounds						
24) SDIBRFLUOROMETHANE	5.847	111	152553	20.03	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 100.15%			
39) STOLUENE-D8	8.990	98	931337	19.54	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 97.70%			
59) S4BRFLUOROBENZENE	13.893	95	1274344	19.88	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 99.40%			

Target Compounds				Qvalue
2) DICLDIFLUOROMETHANE	0.000		0	N.D.
3) CHLOROMETHANE	2.155	50	710	N.D.
4) VINYL CHLORIDE	2.228	62	27	N.D.
5) BROMOMETHANE	2.518	94	832	N.D.
6) CHLOROETHANE	2.640	64	646	N.D.
7) TRICLFLUOROMETHANE	2.841	101	306	N.D.
8) ACROLEIN	0.000		0	N.D. d
9) ACETONE	0.000		0	N.D. d
10) 11-DICHLOROETHENE	4.101	61	798	N.D.
11) IODOMETHANE	3.521	142	3388	N.D.
12) CARBON DISULFIDE	0.000		0	N.D. d
13) ACRYLONITRILE	4.177	53	1126	N.D.
14) DICHLOROMETHANE	3.862	84	11751	N.D.
15) TRANS12DICLETHENE	4.101	96	827	N.D.
16) 11-DICHLOROETHANE	4.104	63	195	N.D.
17) VINYL ACETATE	4.629	43	811	N.D.
18) 2-BUTANONE	5.312	43	576	N.D.
19) CIS12DICHLOROETHENE	5.248	96	577	N.D.
20) 22-DICHLOROPROPANE	5.209	77	55	N.D.
21) CHLOROFORM	5.644	83	1819	N.D.
22) BROMOCHLOROMETHANE	5.546	49	32	N.D.
25) TETRAHYDROFURAN	5.630	42	671	N.D.
26) 111-TRICHLOROETHANE	5.794	97	36	N.D.
27) 11-DICHLOROPROPENE	5.828	75	8090	N.D.
28) 12-DICHLOROETHANE	6.394	62	26	N.D.
29) CARBONTETRACHLORIDE	5.995	117	55	N.D.
30) BENZENE	6.285	78	2937	N.D.
31) TRICHLOROETHENE	7.155	132	508	N.D.
32) 12-DICHLOROPROPANE	0.000		0	N.D.
33) DIBROMOMETHANE	7.727	174	29	N.D.
34) BROMODICLMETHANE	7.947	83	26	N.D.
35) 2-CLETHYLVINYLETHER	8.410	63	221	N.D.
36) EPICHLOROHYDRIN	8.577	57	206	N.D.
37) 4METHYL-2-PENTANONE	8.887	43	443	N.D.
38) CIS13DICLPROPENE	8.616	75	53	N.D.

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152505.D
Acq On : 08 Sep 2017 04:44 pm
Operator : NIVA
Sample : 2721713
Misc : RUN191525
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 12 08:56:48 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration

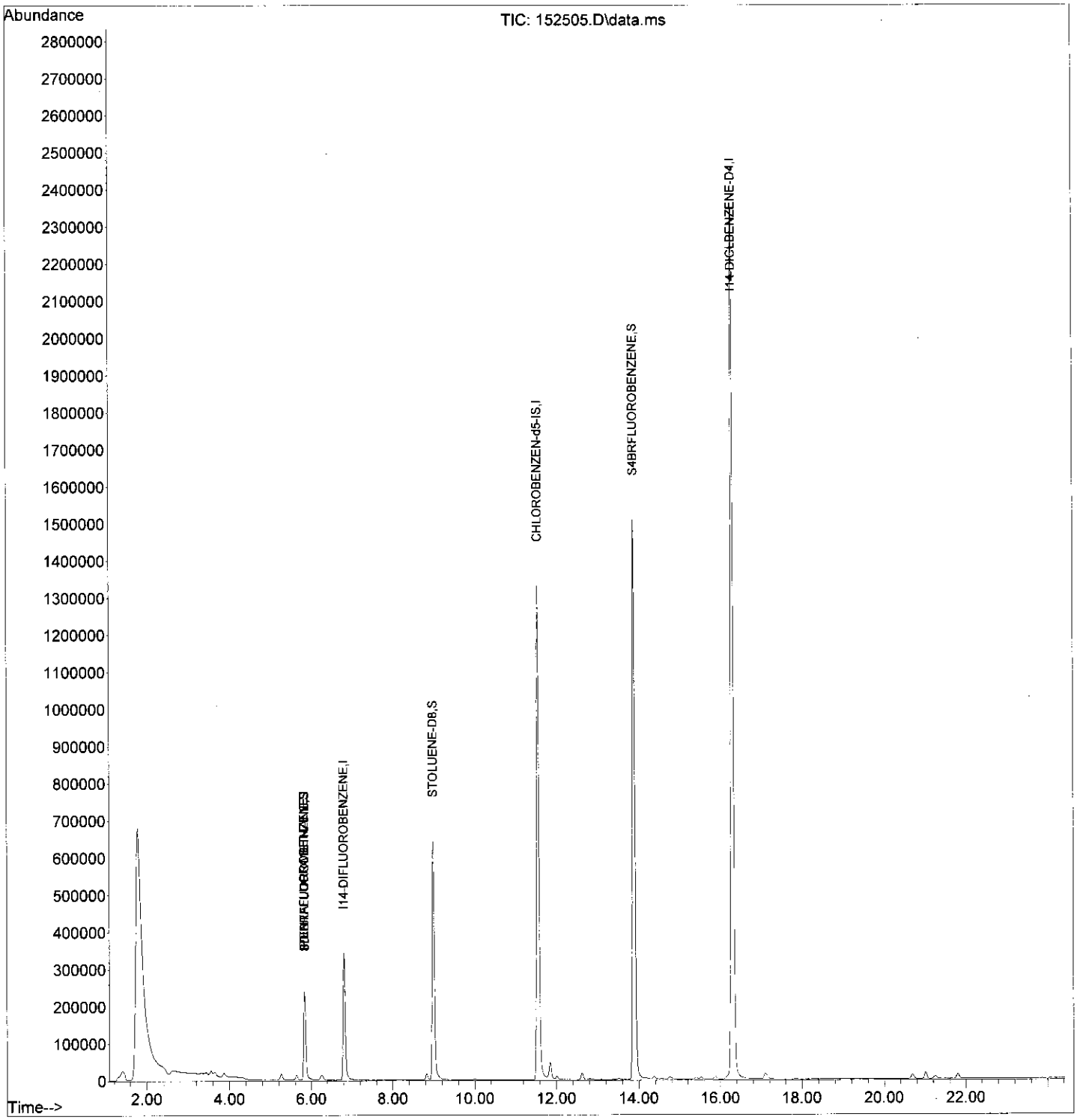
Compound	R.T.	QIon	Response	Conc Units Dev(Min)
40) TOLUENE	9.093	91	4659	N.D.
41) TRANS13DICLPROPENE	9.562	75	27	N.D.
42) 112-TRICHLOROETHANE	0.000		0	N.D.
43) 2-HEXANONE	10.315	43	126	N.D.
44) 13-DICHLOROPROPANE	10.195	76	30	N.D.
45) DIBRCHLOROMETHANE	10.588	129	28	N.D.
46) TETRACHLOROETHENE	10.000	166	536	N.D.
47) 12-DIBROMOETHANE	0.000		0	N.D.
49) CHLOROBENZENE	11.611	112	140	N.D.
50) 1-CHLOROHEXANE	11.553	91	6922	N.D.
51) 1112-TETRACLETHANE	0.000		0	N.D.
52) ETHYLBENZENE	11.782	91	7163	N.D.
53) MP-XYLENE	11.921	91	125	N.D.
54) STYRENE	12.850	104	1426	N.D.
55) O-XYLENE	12.808	91	2740	N.D.
56) BROMOFORM	13.307	173	26	N.D.
57) 1122-TETRACLETHANE	14.330	83	120	N.D.
58) ISOPROPYL BENZENE	13.491	105	1146	N.D.
60) 123-TRICLPROPANE	0.000		0	N.D.
61) TRANS14DICL2BUTENE	14.439	53	504	N.D.
62) BROMOBENZENE	14.171	77	198	N.D.
63) N-PROPYLBENZENE	14.375	91	14524	N.D.
64) 2-CHLOROTOLUENE	14.565	91	2240	N.D.
65) 4-CHLOROTOLUENE	14.799	91	4266	N.D.
66) 135TRIMETHYLBENZENE	14.749	105	9607	N.D.
67) TERT-BUTYLBENZENE	15.410	119	6434	N.D.
68) 124TRIMETHYLBENZENE	15.532	105	11173	N.D.
69) SEC-BUTYLBENZENE	15.881	105	17993	N.D.
70) 13-DICHLOROBENZENE	16.163	146	7378	N.D.
72) 4-ISOPROPYLTOLUENE	16.193	119	16291	N.D.
73) 14-DICHLOROBENZENE	16.355	146	7940	N.D.
74) 12-DICHLOROBENZENE	17.169	146	3178	N.D.
75) N-BUTYLBENZENE	17.094	91	19735	N.D.
76) 12-DIBR-3CLPROPANE	0.000		0	N.D.
77) 124-TRICLBENZENE	20.694	180	13605	N.D.
78) NAPHTHALENE	21.255	128	22875	N.D.
79) HEXACHLOROBUTADIENE	0.000		0	N.D. d
80) 123-TRICLBENZENE	21.801	182	14135	N.D.

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

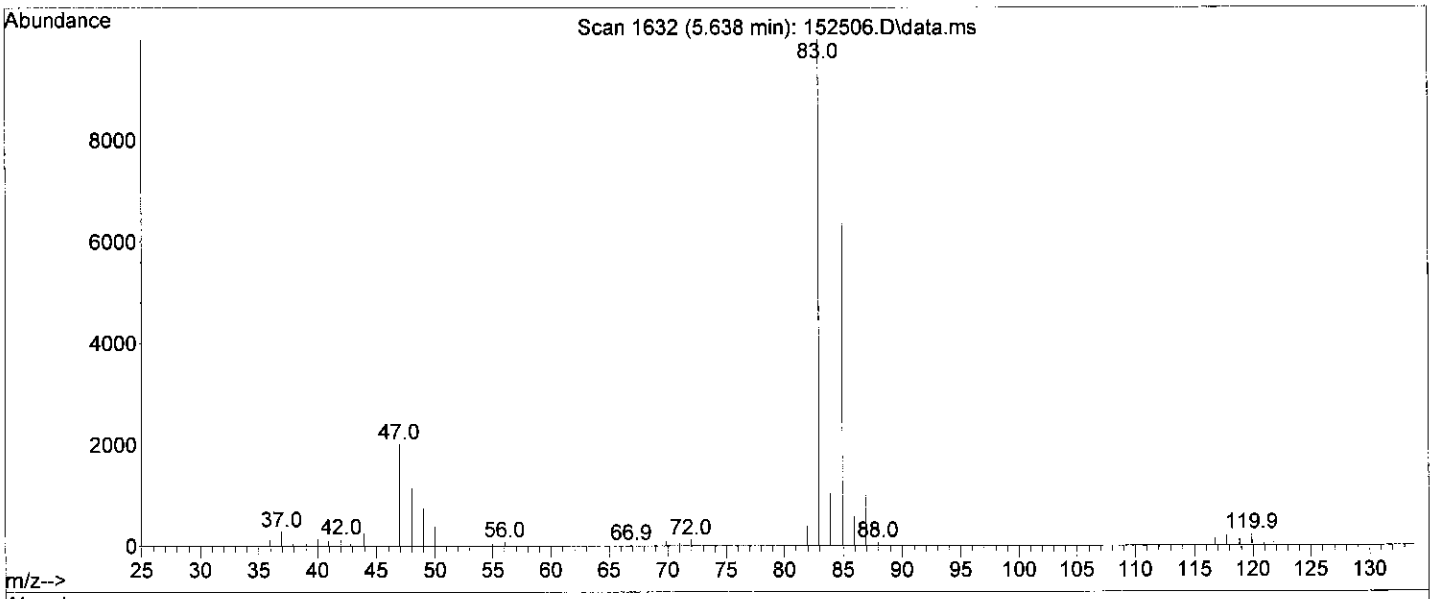
Quantitation Report (QT Reviewed)

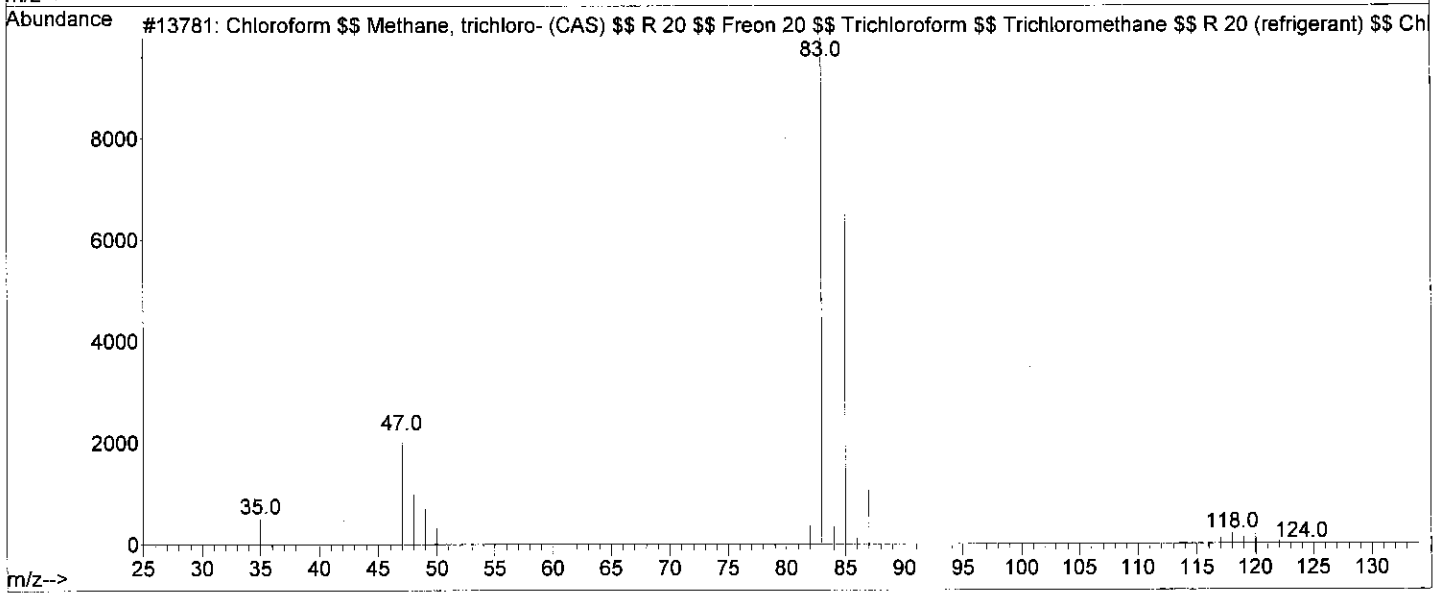
Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152505.D
Acq On : 08 Sep 2017 04:44 pm
Operator : NIVA
Sample : 2721713
Misc : RUN191525
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 12 08:56:48 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration

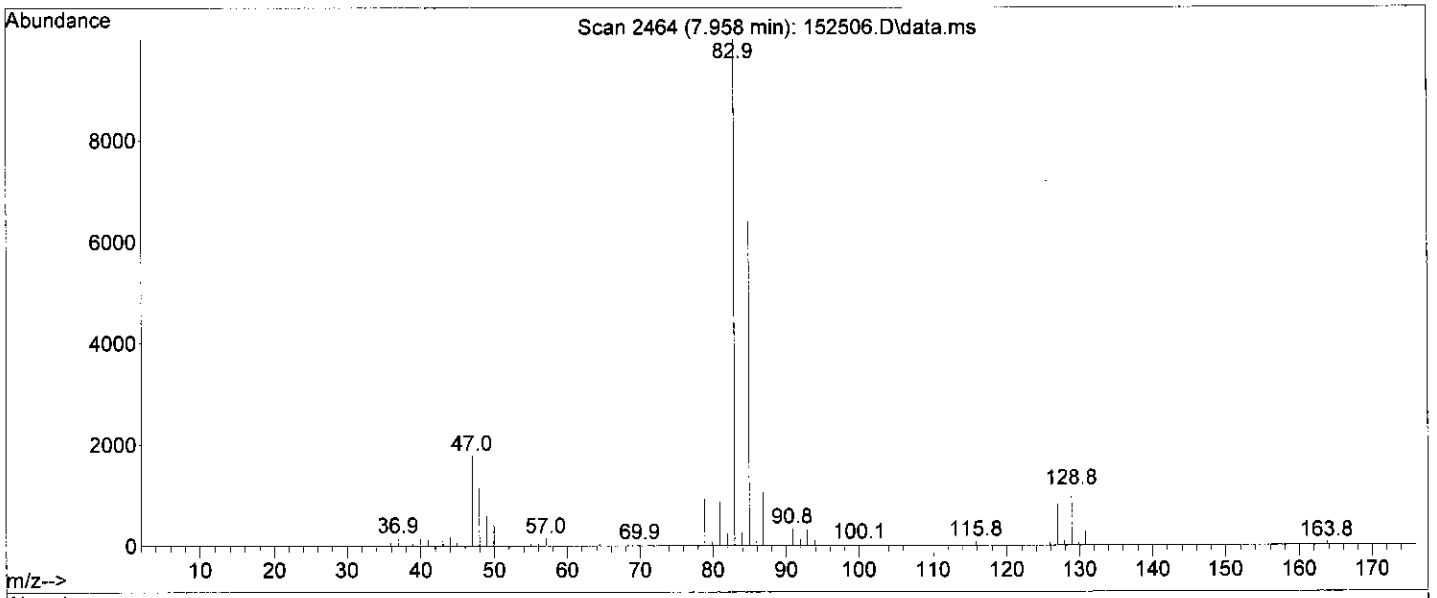


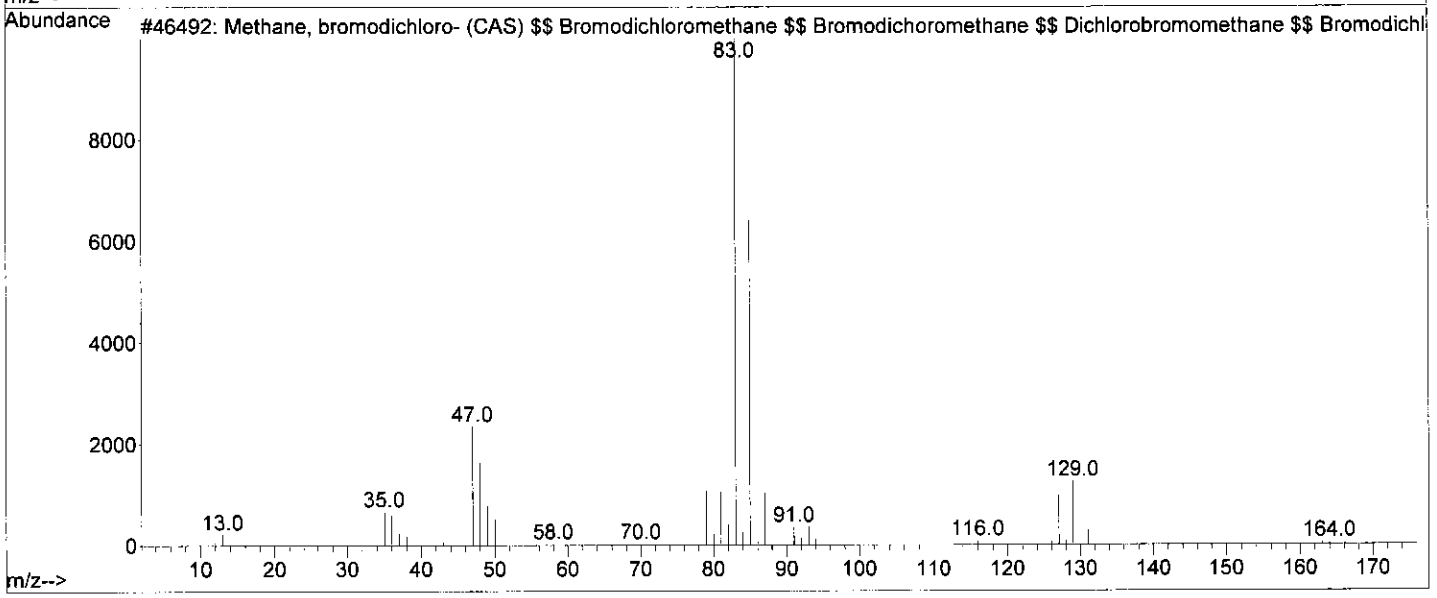
Library Searched : D:\MassHunter\Library\WILEY275.L
Quality : 94
ID : Chloroform $$ Methane, trichloro- (CAS) $$ R 20 $$ Freon 20 $$ Trichloroform $$ Trichlor omethane $$ R 20 (refrigerant) $$ Chloroform (ACN)(DOT) $$ TRICHLOROMETHANE (CHLOROFORM) $$ CHCl3 $$ Formyl trichloride $$ Methane trichloride $$ Methenyl trichloride



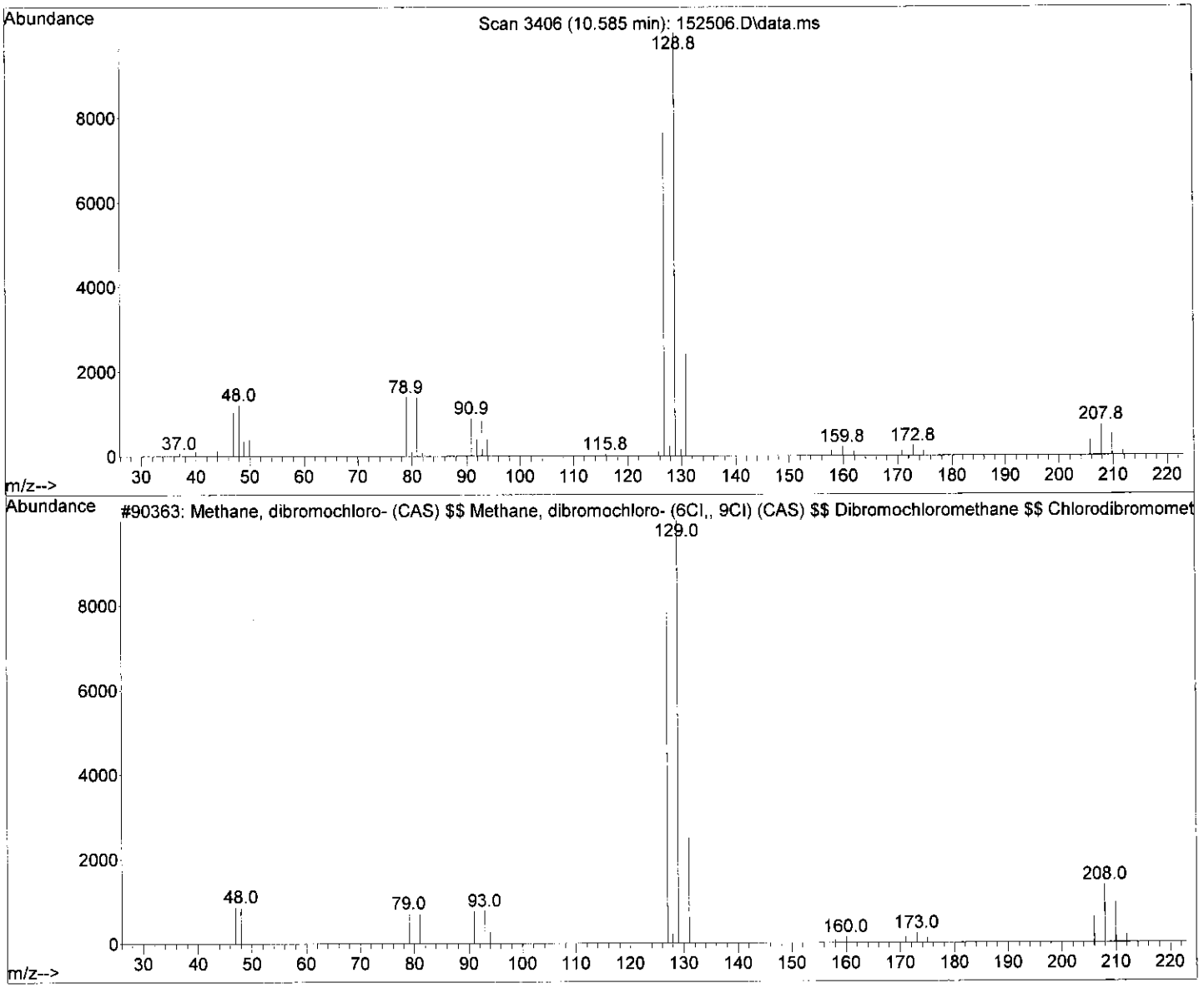


Library Searched : D:\MassHunter\Library\WILEY275.L
Quality : 96
ID : Methane, bromodichloro- (CAS) $$ Bromodichloromethane $$ Bromodichoromethane $$ Dichloro bromomethane $$ Bromodichloro-methane $$ CHBrCl2 $$ NCI-C55243 $$ Bdcm $$ Dichloromonobr omomethane $$ Monobromodichloromethane

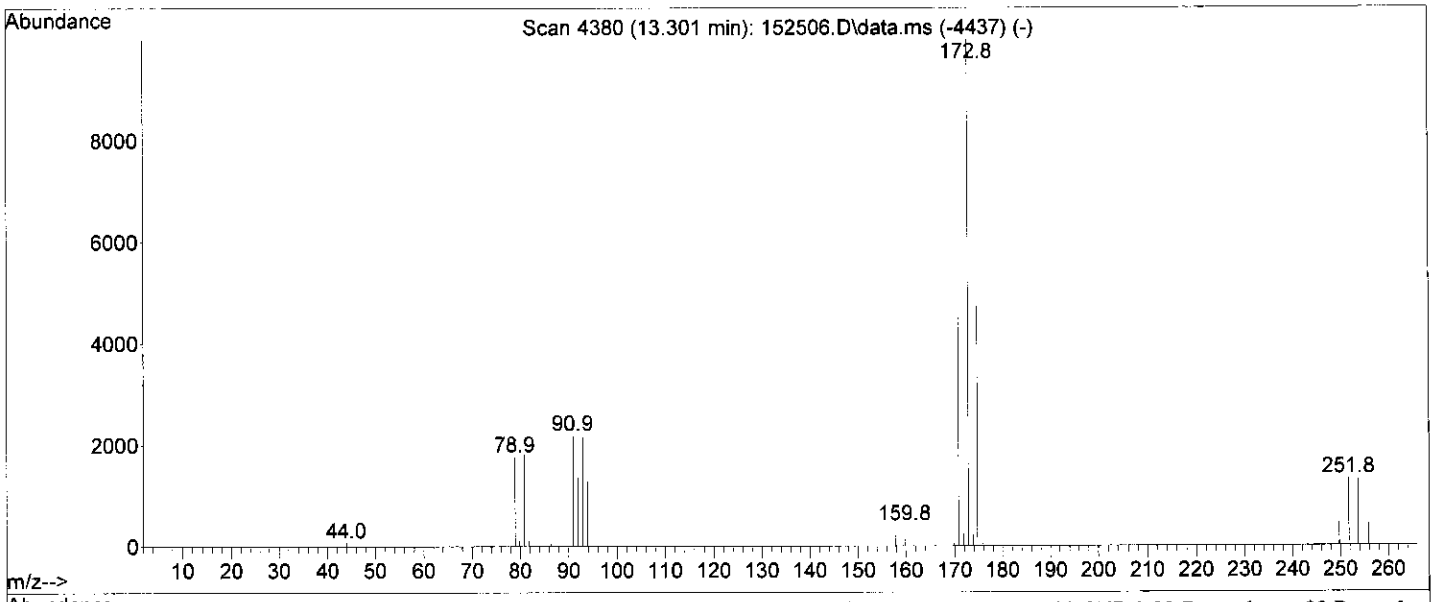


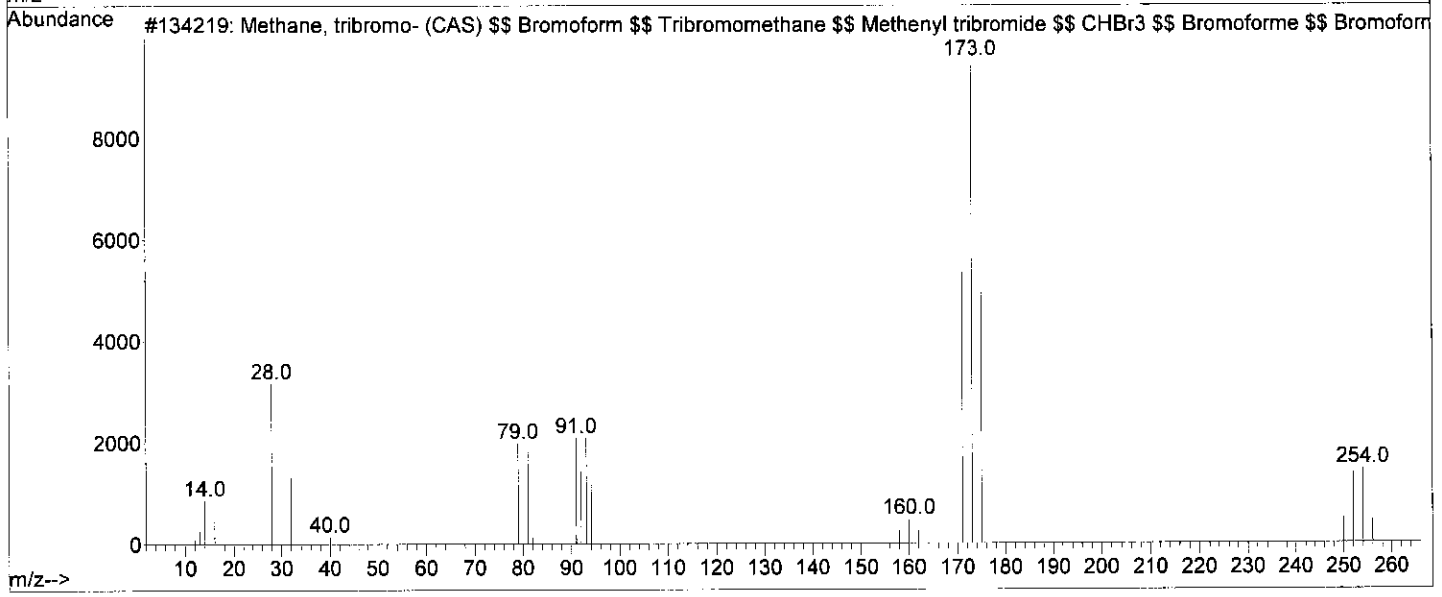


Library Searched : D:\MassHunter\Library\WILEY275.L
Quality : 97
ID : Methane, dibromochloro- (CAS) $$ Methane, dibromochloro- (6CI,, 9CI) (CAS) $$ Dibromochloromethane $$ Chlorodibromomethane $$ Monochlorodibromomethane $$ Dibromomonochloromethane $$ CHClBr2 $$ Methane, chlorodibromo- $$ Cdbm $$ NCI-C55254



Library Searched : D:\MassHunter\Library\WILEY275.L
Quality : 99
ID : Methane, tribromo- (CAS) $$ Bromoform $$ Tribromomethane $$ Methenyl tribromide $$ CHBr3 $$ Bromoforme $$ Bromoformio $$ NCI-C55130 $$ Tribrommethaan $$ Tribrommethan $$ Tribromometan $$ Rcra waste number U225 $$ UN 2515





Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152506.D
Acq On : 08 Sep 2017 05:14 pm
Operator : NIVA
Sample : 2726526
Misc : RUN191525
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 12 08:57:21 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IPENTAFLUOROBENZENE	5.836	168	160232	20.00 µg/L	# 0.00
23) I14-DIFLUOROBENZENE	6.809	114	574110	20.00 µg/L	0.00
48) CHLOROBENZEN-d5-IS	11.564	117	1895963	20.00 µg/L	0.00
71) I14-DICLBENZENE-D4	16.305	152	1807156	20.00 µg/L	0.00
System Monitoring Compounds					
24) SDIBRFLUOROMETHANE	5.847	111	154118	19.91 µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 99.55%		
39) STOLUENE-D8	8.990	98	941959	19.45 µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 97.25%		
59) S4BRFLUOROBENZENE	13.893	95	1290393	19.85 µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 99.25%		
Target Compounds					Qvalue
2) DICLDIFLUOROMETHANE	0.000		0	N.D.	
3) CHLOROMETHANE	2.147	50	527	N.D.	
4) VINYL CHLORIDE	0.000		0	N.D.	
5) BROMOMETHANE	2.534	94	541	N.D.	
6) CHLOROETHANE	2.682	64	1104	N.D.	
7) TRICLFLUOROMETHANE	0.000		0	N.D.	
8) ACROLEIN	3.329	56	433	N.D.	
9) ACETONE	0.000		0	N.D. d	
10) 11-DICHLOROETHENE	4.104	61	172	N.D.	
11) IODOMETHANE	3.527	142	690	N.D.	
12) CARBON DISULFIDE	0.000		0	N.D. d	
13) ACRYLONITRILE	4.174	53	362	N.D.	
14) DICHLOROMETHANE	3.761	84	139	N.D.	
15) TRANS12DICLETHENE	4.104	96	469	N.D.	
16) 11-DICHLOROETHANE	5.014	63	9631	N.D.	
17) VINYL ACETATE	4.626	43	633	N.D.	
18) 2-BUTANONE	0.000		0	N.D. d	
19) CIS12DICHLOROETHENE	5.251	96	40	N.D.	
20) 22-DICHLOROPROPANE	5.217	77	71	N.D.	
21) CHLOROFORM	5.638	83	257170	5.47 µg/L #	98
22) BROMOCHLOROMETHANE	5.549	49	201	N.D.	
25) TETRAHYDROFURAN	5.627	42	2602	N.D.	
26) 111-TRICHLOROETHANE	0.000		0	N.D.	
27) 11-DICHLOROPROPENE	5.831	75	8077	N.D.	
28) 12-DICHLOROETHANE	0.000		0	N.D.	
29) CARBONTETRACHLORIDE	5.995	117	31	N.D.	
30) BENZENE	6.280	78	8997	N.D.	
31) TRICHLOROETHENE	7.150	132	28	N.D.	
32) 12-DICHLOROPROPANE	0.000		0	N.D.	
33) DIBROMOMETHANE	7.727	174	91	N.D.	
34) BROMODICLMETHANE	7.958	83	273586	7.87 µg/L	99
35) 2-CLETHYLVINYLETHER	0.000		0	N.D.	
36) EPICHLOROHYDRIN	0.000		0	N.D. d	
37) 4METHYL-2-PENTANONE	8.876	43	981	N.D.	
38) CIS13DICLPROPENE	8.639	75	28	N.D.	

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152506.D
Acq On : 08 Sep 2017 05:14 pm
Operator : NIVA
Sample : 2726526
Misc : RUN191525
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 12 08:57:21 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration

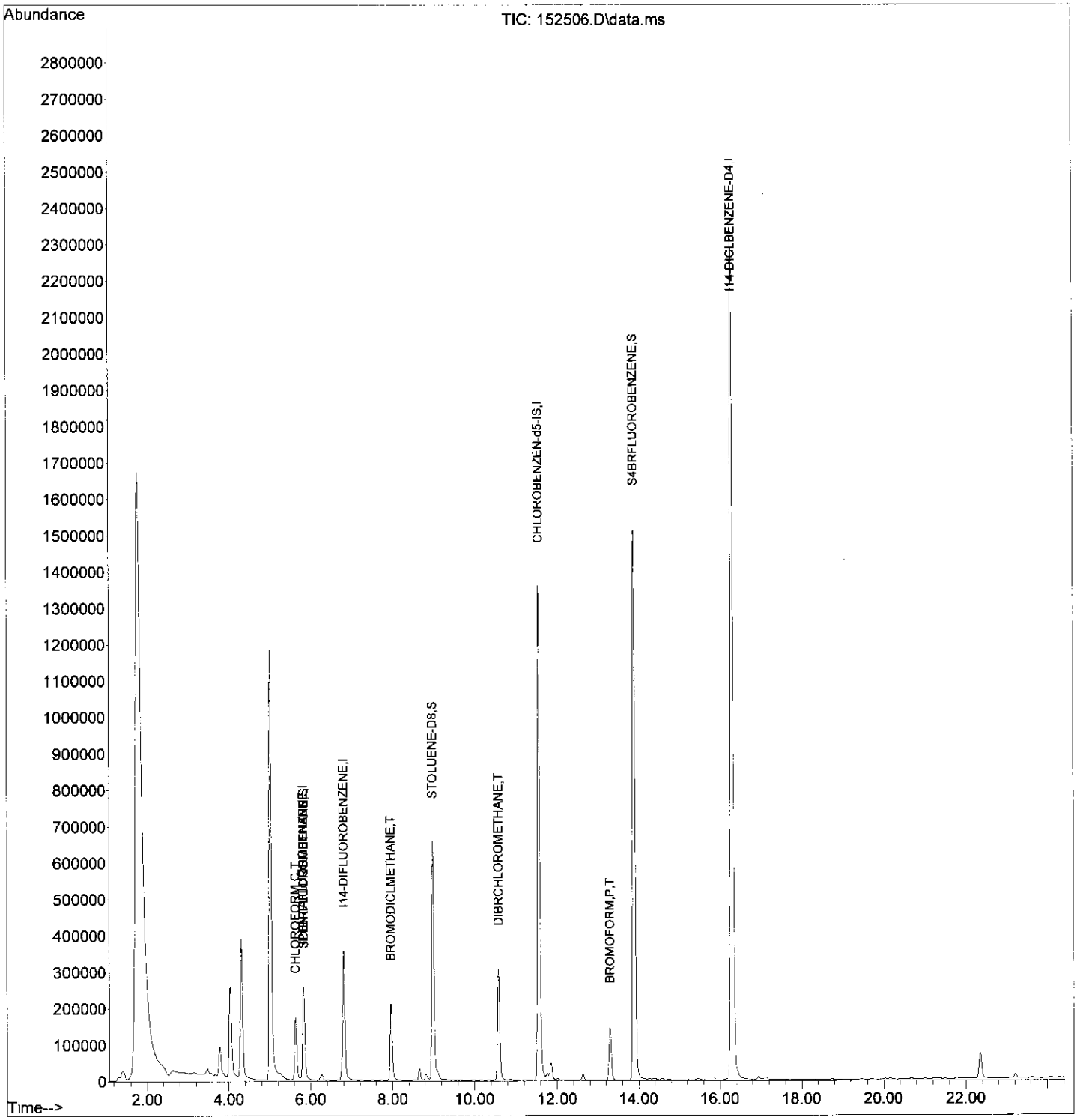
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) TOLUENE	9.099	91	20204	N.D.	
41) TRANS13DICLPROPENE	0.000		0	N.D.	
42) 112-TRICHLOROETHANE	0.000		0	N.D.	
43) 2-HEXANONE	10.318	43	447	N.D.	
44) 13-DICHLOROPROPANE	0.000		0	N.D.	
45) DIBRCHLOROMETHANE	10.585	129	370044	13.31 µg/L	99
46) TETRACHLOROETHENE	9.991	166	84	N.D.	
47) 12-DIBROMOETHANE	0.000		0	N.D.	
49) CHLOROBENZENE	11.612	112	49	N.D.	
50) 1-CHLOROHEXANE	11.556	91	4066	N.D.	
51) 1112-TETRACLETHANE	0.000		0	N.D.	
52) ETHYLBENZENE	11.798	91	3196	N.D.	
53) MP-XYLENE	12.019	91	3861	N.D.	
54) STYRENE	12.855	104	775	N.D.	
55) O-XYLENE	12.802	91	899	N.D.	
56) BROMOFORM	13.301	173	166358	9.13 µg/L	99
57) 1122-TETRACLETHANE	14.342	83	282	N.D.	
58) ISOPROPYL BENZENE	13.513	105	476	N.D.	
60) 123-TRICLPROPANE	0.000		0	N.D.	
61) TRANS14DICL2BUTENE	14.420	53	34	N.D.	
62) BROMOBENZENE	14.174	77	45	N.D.	
63) N-PROPYLBENZENE	14.370	91	3073	N.D.	
64) 2-CHLOROTOLUENE	14.556	91	790	N.D.	
65) 4-CHLOROTOLUENE	14.796	91	1350	N.D.	
66) 135TRIMETHYLBENZENE	14.732	105	564	N.D.	
67) TERT-BUTYLBENZENE	15.373	119	412	N.D.	
68) 124TRIMETHYLBENZENE	15.535	105	2602	N.D.	
69) SEC-BUTYLBENZENE	15.870	105	4756	N.D.	
70) 13-DICHLOROBENZENE	16.149	146	1574	N.D.	
72) 4-ISOPROPYLTOLUENE	16.204	119	6236	N.D.	
73) 14-DICHLOROBENZENE	16.375	146	1165	N.D.	
74) 12-DICHLOROBENZENE	17.197	146	139	N.D.	
75) N-BUTYLBENZENE	17.089	91	6240	N.D.	
76) 12-DIBR-3CLPROPANE	0.000		0	N.D.	
77) 124-TRICLBENZENE	20.689	180	2113	N.D.	
78) NAPHTHALENE	21.246	128	2720	N.D.	
79) HEXACHLOROBUTADIENE	21.007	225	1594	N.D.	
80) 123-TRICLBENZENE	21.776	182	587	N.D.	

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

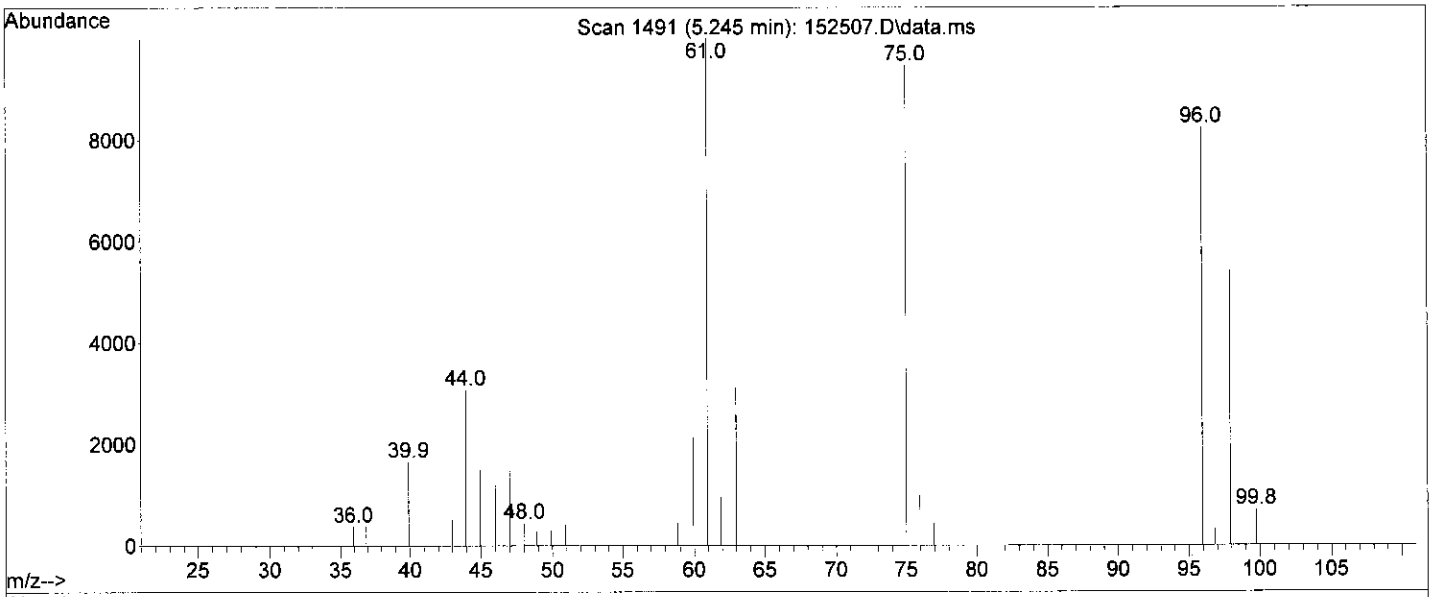
Quantitation Report (QT Reviewed)

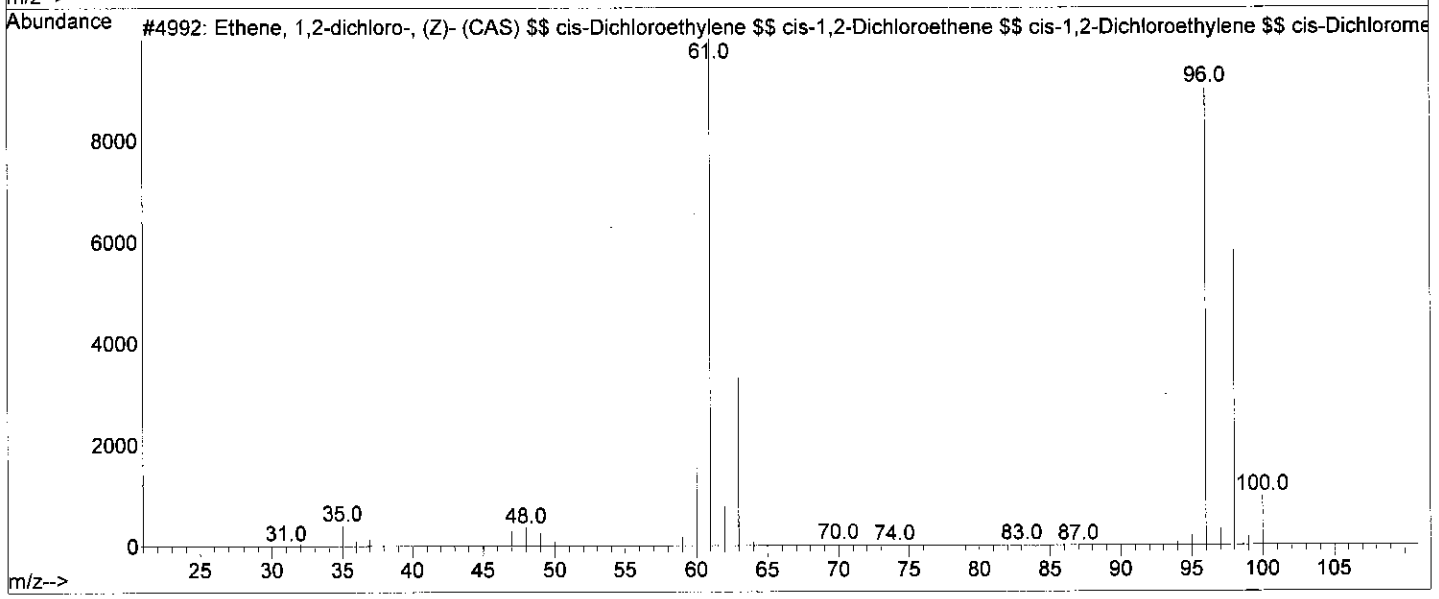
Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152506.D
Acq On : 08 Sep 2017 05:14 pm
Operator : NIVA
Sample : 2726526
Misc : RUN191525
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 12 08:57:21 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration

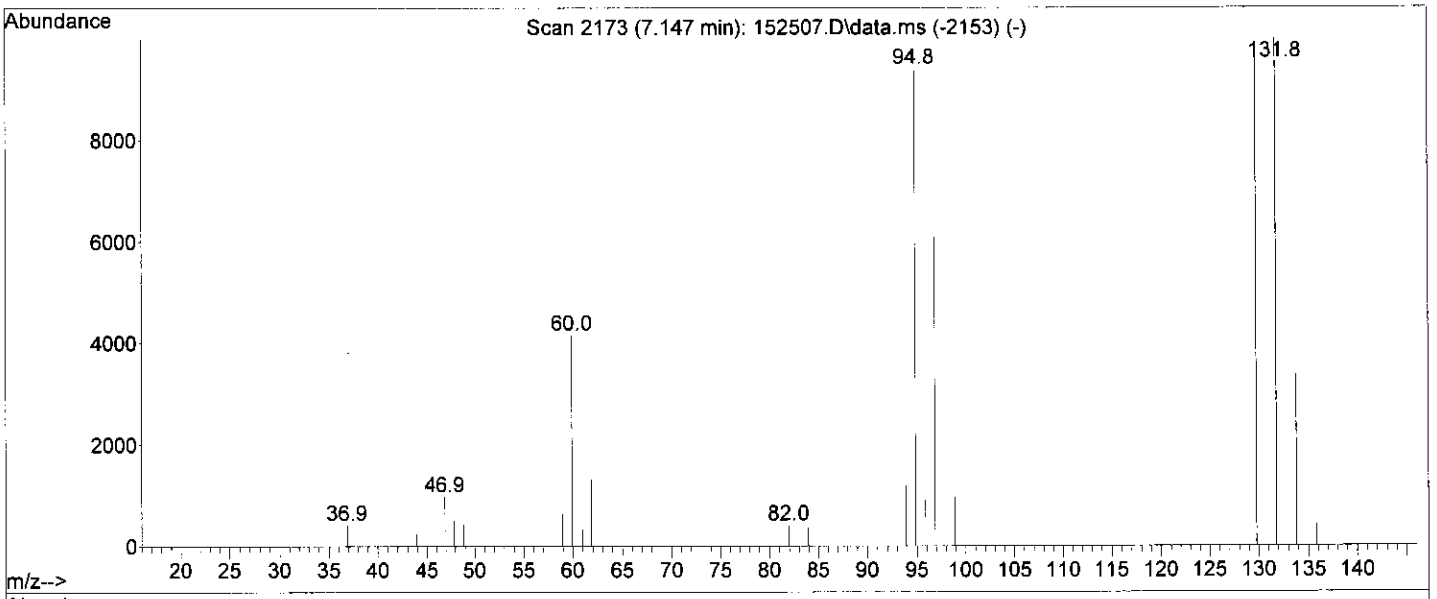


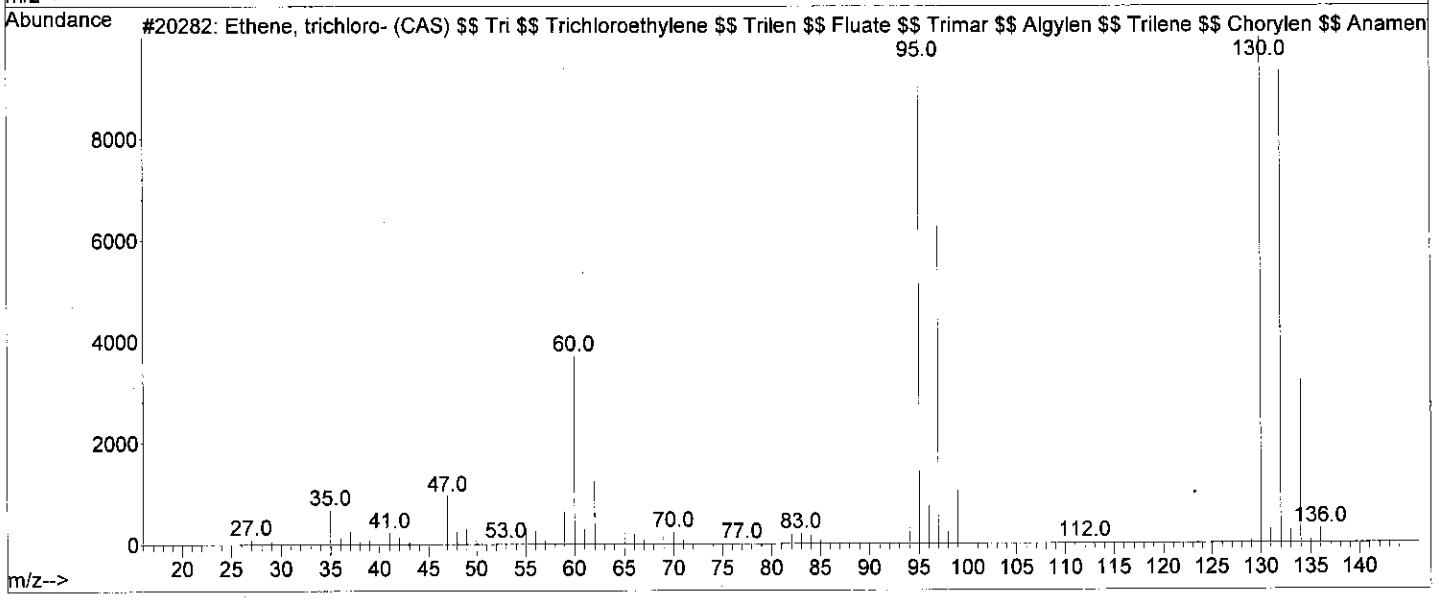
Library Searched : D:\MassHunter\Library\WILEY275.L
Quality : 70
ID : Ethene, 1,2-dichloro-, (Z)- (CAS) $$ cis-Dichloroethylene $$ cis-1,2-Dichloroethene $$ c
is-1,2-Dichloroethylene $$ cis-Dichloromethylene $$ (Z)-1,2-Dichloroethylene $$ 1,2-cis-
Dichloroethylene $$ cis-Di-1,2-Chloroethylene $$ Ethylene, 1,2-dichloro-, (Z)-



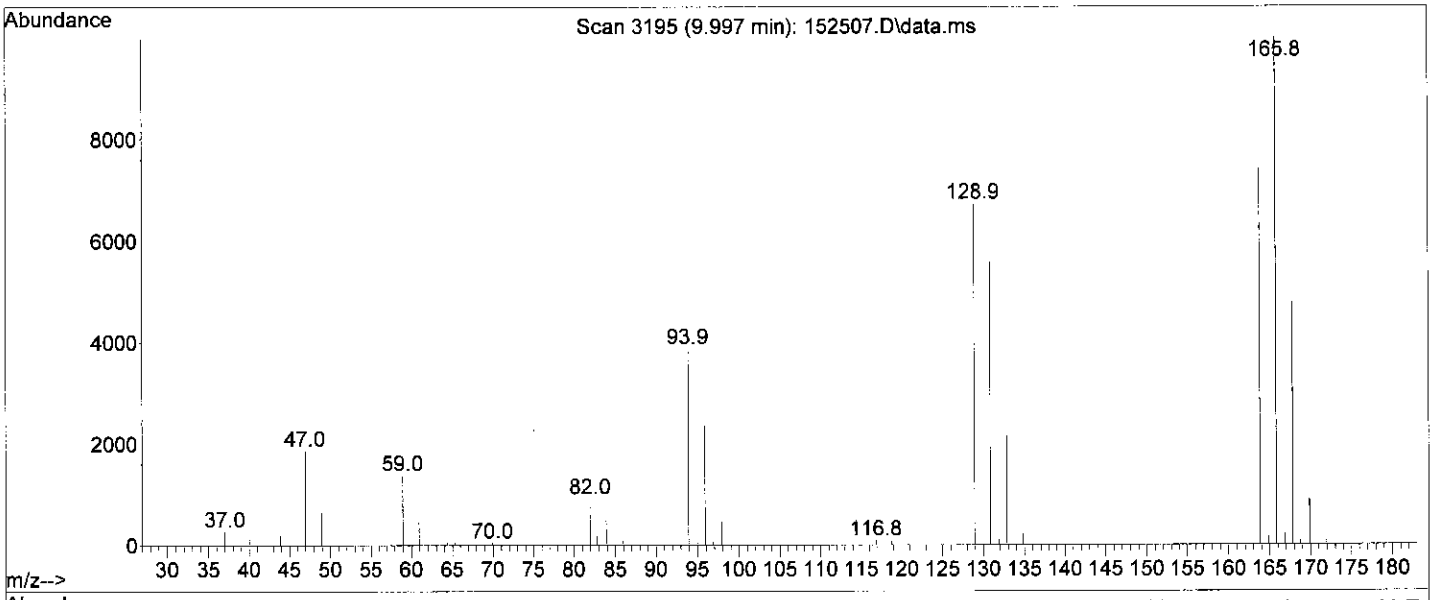


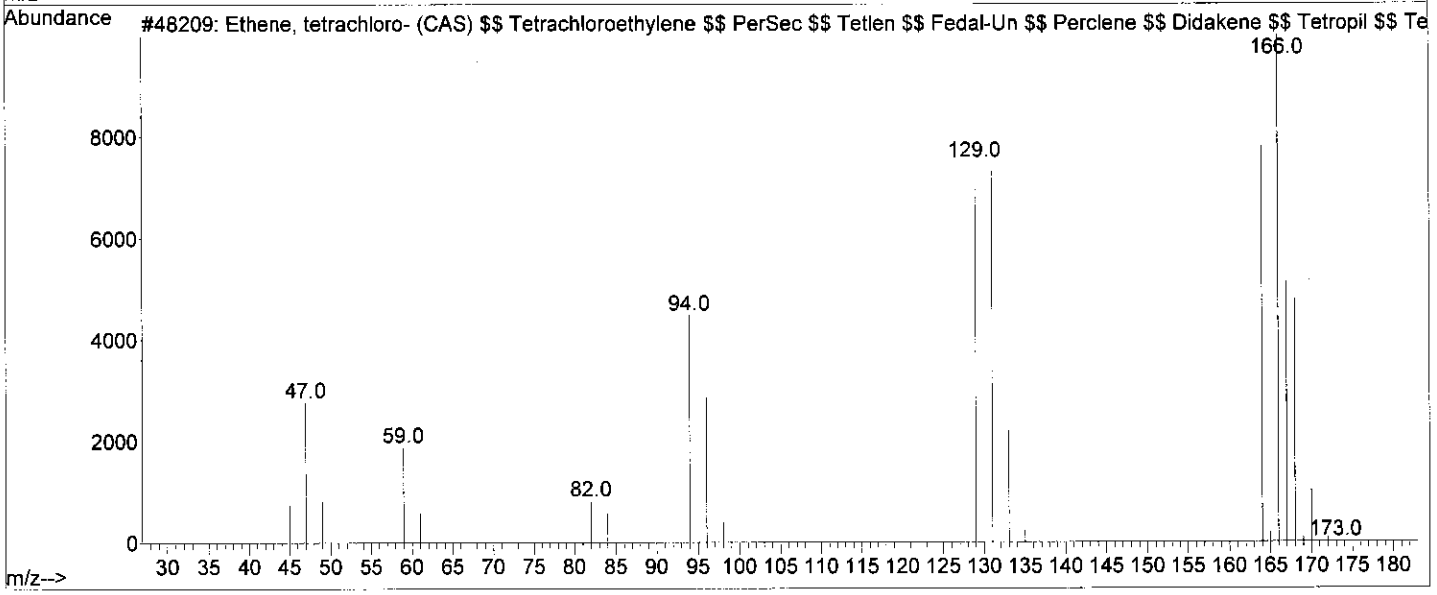
Library Searched : D:\MassHunter\Library\WILEY275.L
Quality : 98
ID : Ethene, trichloro- (CAS) $$ Tri $$ Trichloroethylene $$ Trilen $$ Fluate $$ Trimar $$ Algylen $$ Trilene $$ Chorylen $$ Anamenth $$ Triclene $$ Narcogen $$ Narkogen $$ Trielene $$ Westrosol $$ Tri-clene $$ Narkosoid $$ Chlorilen $$ Gemalgene $$ Chlorylen





Library Searched : D:\MassHunter\Library\WILEY275.L
Quality : 99
ID : Ethene, tetrachloro- (CAS) $$ Tetrachloroethylene $$ PerSec $$ Tetlen $$ Fedal-Un $$ Perclene $$ Didakene $$ Tetropil $$ Tetracap $$ Antisal 1 $$ Tetraguer $$ Tetraleno $$ Ankilostin $$ Perchlorethylene $$ Perchloroethylene $$ Tetrachloroethene $$ Tetrach





Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152507.D
Acq On : 08 Sep 2017 05:45 pm
Operator : NIVA
Sample : 2721708
Misc : RUN191525
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 12 08:58:35 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IPENTAFLUOROBENZENE	5.831	168	165646	20.00 µg/L	# 0.00
23) I14-DIFLUOROBENZENE	6.807	114	590586	20.00 µg/L	0.00
48) CHLOROBENZEN-d5-IS	11.559	117	1964129	20.00 µg/L	0.00
71) I14-DICLBENZENE-D4	16.305	152	1866448	20.00 µg/L	0.00
System Monitoring Compounds					
24) SDIBRFLUOROMETHANE	5.845	111	160191	20.12 µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 100.60%		
39) STOLUENE-D8	8.990	98	980757	19.68 µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 98.40%		
59) S4BRFLUOROBENZENE	13.895	95	1345704	19.98 µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 99.90%		
Target Compounds					Qvalue
2) DICLDIFLUOROMETHANE	0.000		0	N.D. d	
3) CHLOROMETHANE	2.161	50	471	N.D.	
4) VINYL CHLORIDE	2.262	62	802	N.D.	
5) BROMOMETHANE	2.551	94	722	N.D.	
6) CHLOROETHANE	2.665	64	2381	N.D.	
7) TRICLFLUOROMETHANE	0.000		0	N.D. d	
8) ACROLEIN	3.321	56	244	N.D.	
9) ACETONE	0.000		0	N.D. d	
10) 11-DICHLOROETHENE	4.107	61	160	N.D.	
11) IODOMETHANE	3.519	142	225	N.D.	
12) CARBON DISULFIDE	3.558	76	8812	N.D.	
13) ACRYLONITRILE	4.185	53	27	N.D.	
14) DICHLOROMETHANE	3.943	84	61	N.D.	
15) TRANS12DICLETHENE	4.102	96	261	N.D.	
16) 11-DICHLOROETHANE	0.000		0	N.D. d	
17) VINYL ACETATE	4.631	43	421	N.D.	
18) 2-BUTANONE	5.309	43	733	N.D.	
19) CIS12DICHLOROETHENE	5.245	96	17347	0.60 µg/L	96
20) 22-DICHLOROPROPANE	5.225	77	37	N.D.	
21) CHLOROFORM	5.638	83	22946	N.D.	
22) BROMOCHLOROMETHANE	5.624	49	3079	N.D.	
25) TETRAHYDROFURAN	5.630	42	274	N.D.	
26) 111-TRICHLOROETHANE	5.923	97	29	N.D.	
27) 11-DICHLOROPROPENE	5.825	75	8178	N.D.	
28) 12-DICHLOROETHANE	0.000		0	N.D.	
29) CARBONTETRACHLORIDE	5.984	117	3320	N.D.	
30) BENZENE	6.288	78	1050	N.D.	
31) TRICHLOROETHENE	7.147	132	16770	0.59 µg/L	100
32) 12-DICHLOROPROPANE	0.000		0	N.D.	
33) DIBROMOMETHANE	0.000		0	N.D.	
34) BROMODICLMETHANE	7.967	83	595	N.D.	
35) 2-CLETHYLVINYLETHER	8.248	63	4898	N.D.	
36) EPICHLOROHYDRIN	0.000		0	N.D.	
37) 4METHYL-2-PENTANONE	8.893	43	180	N.D.	
38) CIS13DICLPROPENE	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152507.D
Acq On : 08 Sep 2017 05:45 pm
Operator : NIVA
Sample : 2721708
Misc : RUN191525
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 12 08:58:35 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration

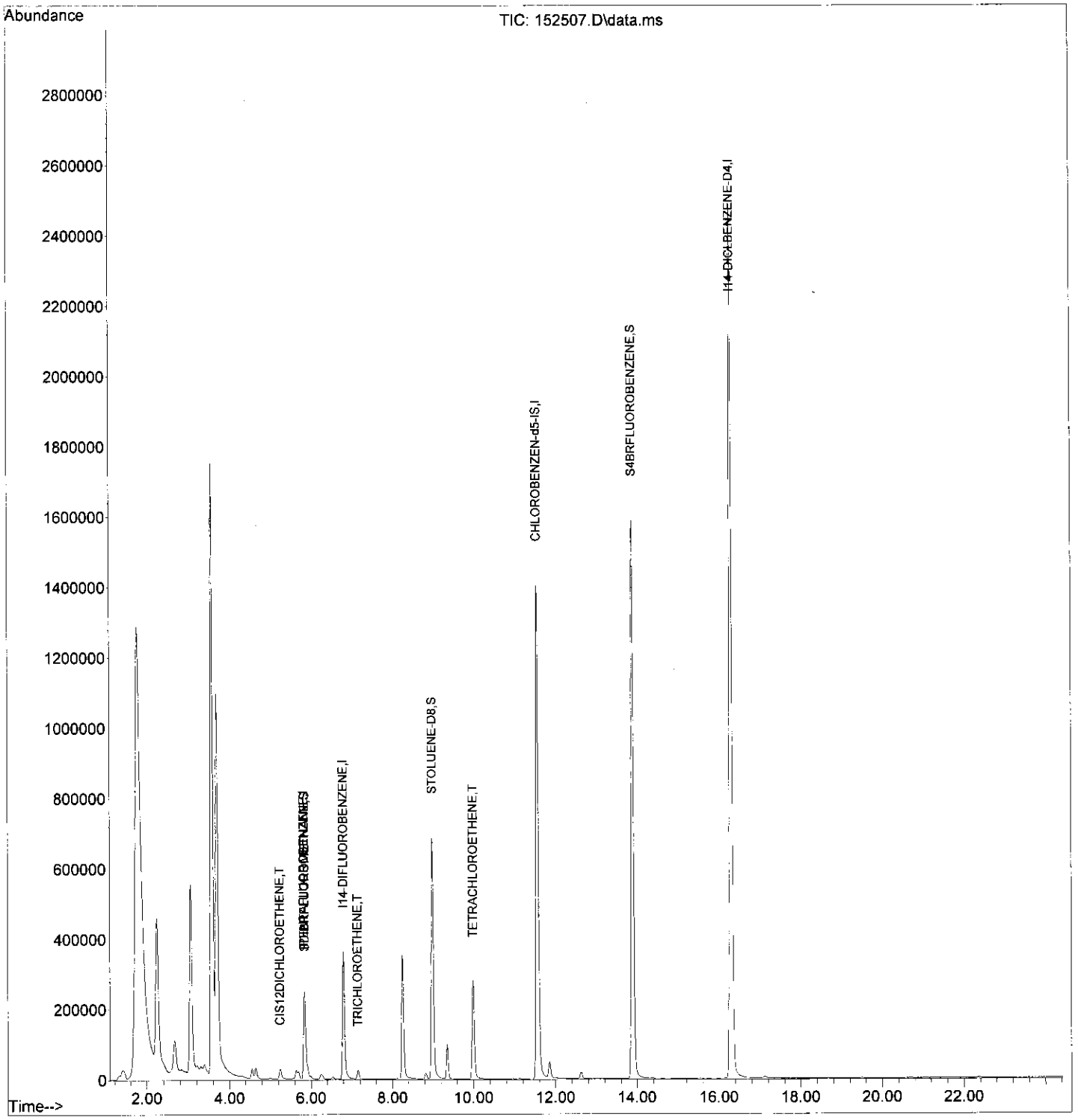
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) TOLUENE	9.096	91	876	N.D.	
41) TRANS13DICLPROPENE	0.000		0	N.D.	
42) 112-TRICHLOROETHANE	9.980	97	440	N.D.	
43) 2-HEXANONE	10.359	43	26	N.D.	
44) 13-DICHLOROPROPANE	0.000		0	N.D.	
45) DIBRCHLOROMETHANE	10.566	129	26	N.D.	
46) TETRACHLOROETHENE	9.997	166	192425	6.53 µg/L	99
47) 12-DIBROMOETHANE	0.000		0	N.D.	
49) CHLOROBENZENE	11.606	112	108	N.D.	
50) 1-CHLOROHEXANE	11.539	91	893	N.D.	
51) 1112-TETRACLETHANE	0.000		0	N.D.	
52) ETHYLBENZENE	11.801	91	1178	N.D.	
53) MP-XYLENE	12.008	91	2972	N.D.	
54) STYRENE	12.861	104	58	N.D.	
55) O-XYLENE	12.788	91	395	N.D.	
56) BROMOFORM	0.000		0	N.D.	
57) 1122-TETRACLETHANE	0.000		0	N.D.	
58) ISOPROPYL BENZENE	13.519	105	236	N.D.	
60) 123-TRICLPROPANE	0.000		0	N.D.	
61) TRANS14DICL2BUTENE	0.000		0	N.D.	
62) BROMOBENZENE	14.160	77	27	N.D.	
63) N-PROPYLBENZENE	14.364	91	1438	N.D.	
64) 2-CHLOROTOLUENE	14.565	91	335	N.D.	
65) 4-CHLOROTOLUENE	14.796	91	737	N.D.	
66) 135TRIMETHYLBENZENE	14.735	105	393	N.D.	
67) TERT-BUTYLBENZENE	15.401	119	120	N.D.	
68) 124TRIMETHYLBENZENE	15.549	105	2012	N.D.	
69) SEC-BUTYLBENZENE	15.867	105	1107	N.D.	
70) 13-DICHLOROBENZENE	16.151	146	221	N.D.	
72) 4-ISOPROPYLTOLUENE	16.193	119	1183	N.D.	
73) 14-DICHLOROBENZENE	16.347	146	555	N.D.	
74) 12-DICHLOROBENZENE	17.164	146	85	N.D.	
75) N-BUTYLBENZENE	17.080	91	1449	N.D.	
76) 12-DIBR-3CLPROPANE	0.000		0	N.D.	
77) 124-TRICLBENZENE	20.689	180	531	N.D.	
78) NAPHTHALENE	21.249	128	1261	N.D.	
79) HEXACHLOROBUTADIENE	21.004	225	522	N.D.	
80) 123-TRICLBENZENE	21.779	182	185	N.D.	

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

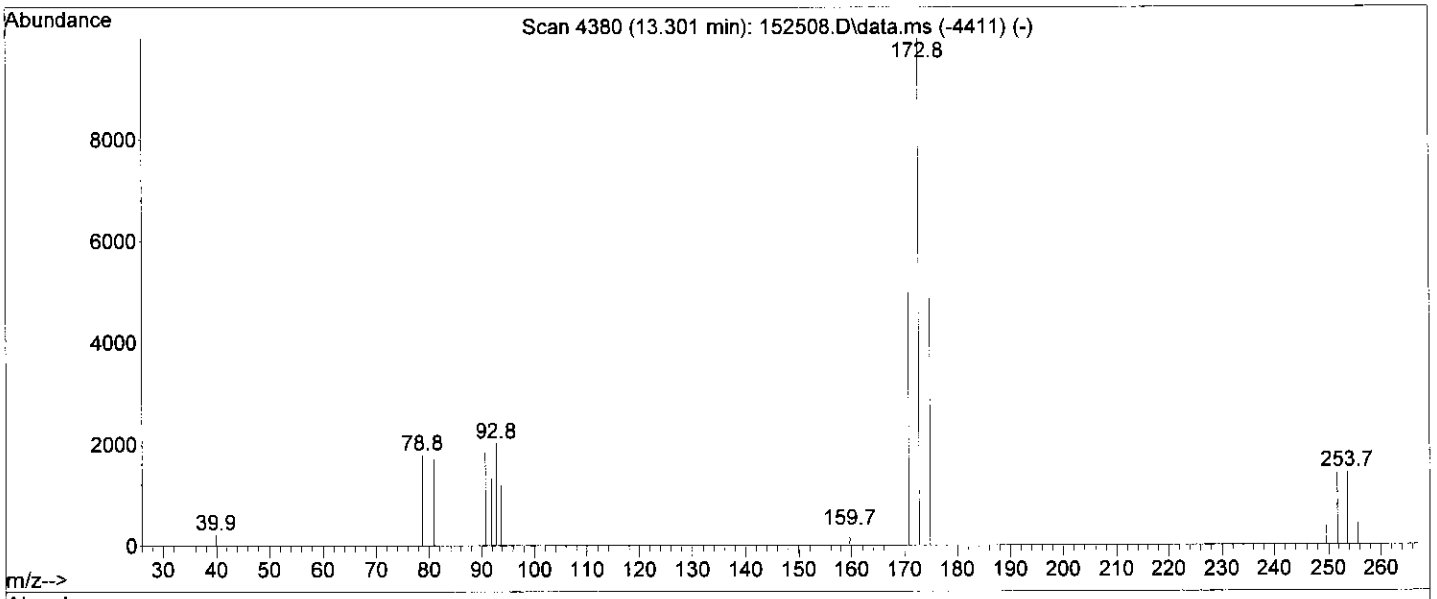
Quantitation Report (QT Reviewed)

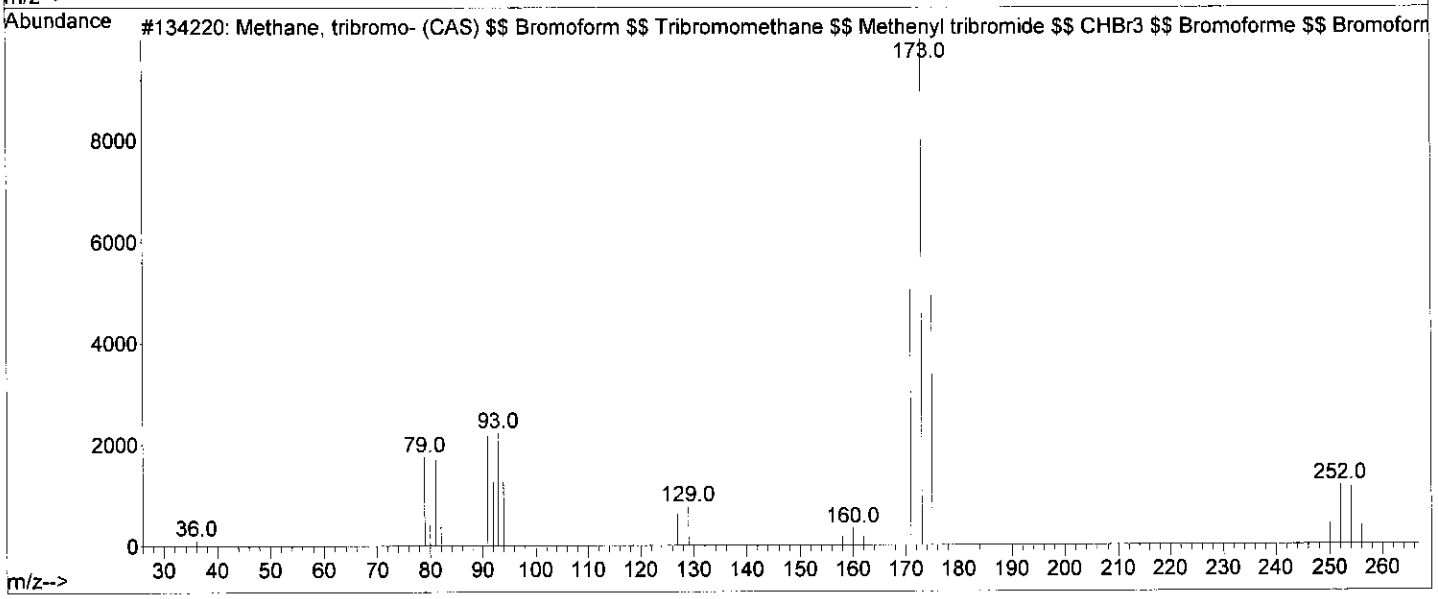
Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152507.D
Acq On : 08 Sep 2017 05:45 pm
Operator : NIVA
Sample : 2721708
Misc : RUN191525
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 12 08:58:35 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration



Library Searched : D:\MassHunter\Library\WILEY275.L
Quality : 98
ID : Methane, tribromo- (CAS) $$ Bromoform $$ Tribromomethane $$ Methenyl tribromide $$ CHBr3 $$ Bromoforme $$ Bromoformio $$ NCI-C55130 $$ Tribrommethaan $$ Tribrommethan $$ Tribromometan $$ Rcra waste number U225 $$ UN 2515





Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152508.D
Acq On : 08 Sep 2017 06:14 pm
Operator : NIVA
Sample : 2721709
Misc : RUN191525
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 12 08:59:50 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IPENTAFLUOROBENZENE	5.836	168	147726	20.00	µg/L	# 0.00
23) I14-DIFLUOROBENZENE	6.809	114	537141	20.00	µg/L	0.00
48) CHLOROBENZEN-d5-IS	11.564	117	1803265	20.00	µg/L	0.00
71) I14-DICLBENZENE-D4	16.305	152	1707963	20.00	µg/L	0.00
System Monitoring Compounds						
24) SDIBRFLUOROMETHANE	5.847	111	145651	20.11	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 100.55%			
39) STOLUENE-D8	8.993	98	896985	19.79	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 98.95%			
59) S4BRFLUOROBENZENE	13.898	95	1220180	19.73	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 98.65%			
Target Compounds						Qvalue
2) DICLDIFLUOROMETHANE	0.000		0	N.D.		
3) CHLOROMETHANE	2.152	50	270	N.D.		
4) VINYL CHLORIDE	0.000		0	N.D.		
5) BROMOMETHANE	2.537	94	831	N.D.		
6) CHLOROETHANE	2.598	64	1244	N.D.		
7) TRICLFLUOROMETHANE	0.000		0	N.D.		
8) ACROLEIN	3.343	56	135	N.D.		
9) ACETONE	0.000		0	N.D.	d	
10) 11-DICHLOROETHENE	4.102	61	30	N.D.		
11) IODOMETHANE	3.533	142	1756	N.D.		
12) CARBON DISULFIDE	3.558	76	8547	N.D.		
13) ACRYLONITRILE	4.202	53	27	N.D.		
14) DICHLOROMETHANE	3.867	84	4343	N.D.		
15) TRANS12DICLETHENE	4.110	96	63	N.D.		
16) 11-DICHLOROETHANE	4.643	63	867	N.D.		
17) VINYL ACETATE	4.629	43	404	N.D.		
18) 2-BUTANONE	0.000		0	N.D.	d	
19) CIS12DICHLOROETHENE	5.248	96	31	N.D.		
20) 22-DICHLOROPROPANE	5.245	77	57	N.D.		
21) CHLOROFORM	5.633	83	1196	N.D.		
22) BROMOCHLOROMETHANE	5.627	49	708	N.D.		
25) TETRAHYDROFURAN	5.630	42	3686	N.D.		
26) 111-TRICHLOROETHANE	0.000		0	N.D.		
27) 11-DICHLOROPROPENE	5.831	75	8878	N.D.		
28) 12-DICHLOROETHANE	0.000		0	N.D.		
29) CARBONTETRACHLORIDE	5.923	117	31	N.D.		
30) BENZENE	6.285	78	529	N.D.		
31) TRICHLOROETHENE	0.000		0	N.D.		
32) 12-DICHLOROPROPANE	0.000		0	N.D.		
33) DIBROMOMETHANE	0.000		0	N.D.		
34) BROMODICLMETHANE	7.964	83	3634	N.D.		
35) 2-CLETHYLVINYLETHER	8.321	63	31	N.D.		
36) EPICHLOROHYDRIN	0.000		0	N.D.		
37) 4METHYL-2-PENTANONE	8.879	43	321	N.D.		
38) CIS13DICLPROPENE	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152508.D
Acq On : 08 Sep 2017 06:14 pm
Operator : NIVA
Sample : 2721709
Misc : RUN191525
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 12 08:59:50 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration

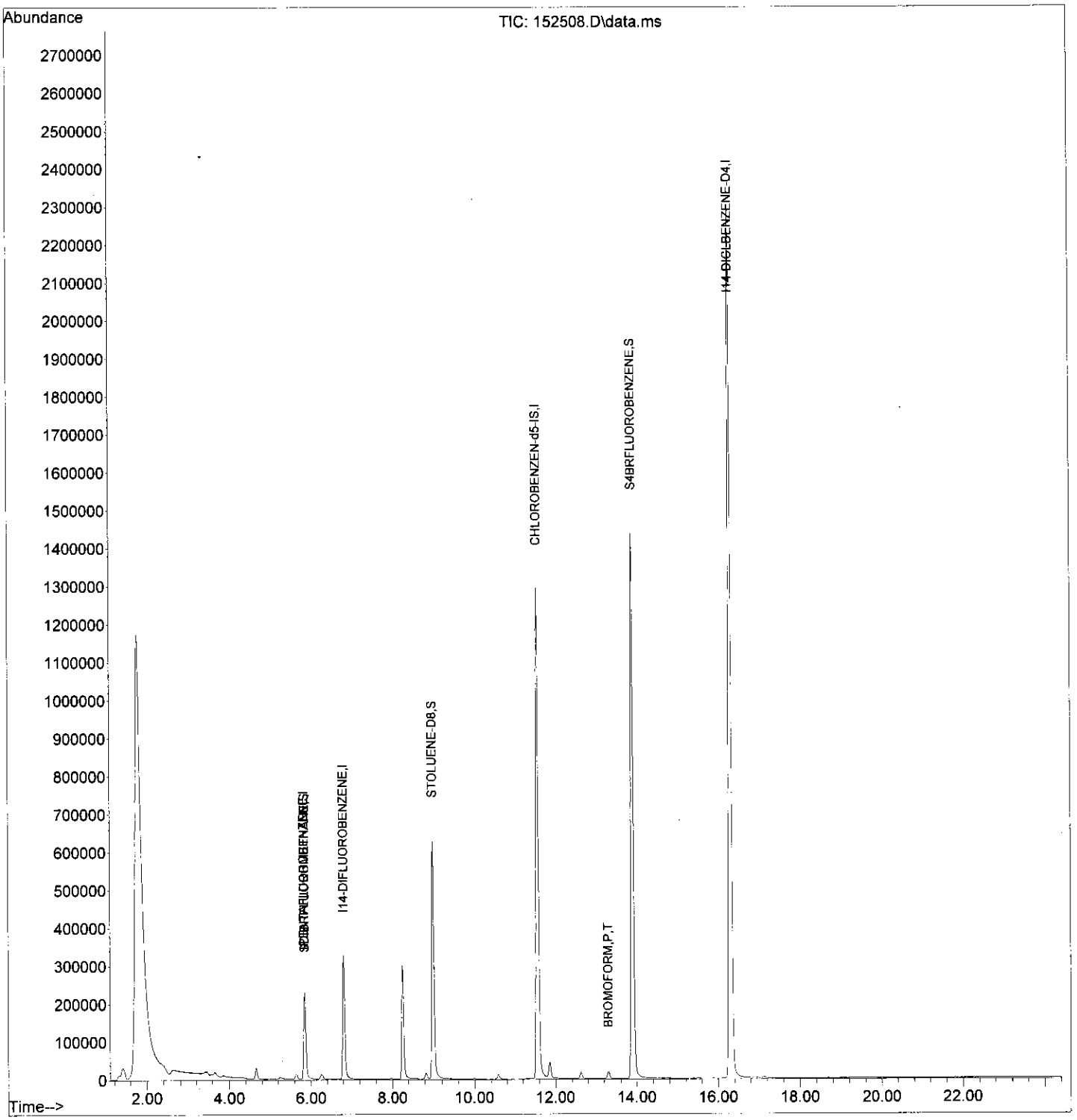
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) TOLUENE	9.102	91	807	N.D.	
41) TRANS13DICLPROPENE	0.000		0	N.D.	
42) 112-TRICHLOROETHANE	0.000		0	N.D.	
43) 2-HEXANONE	10.256	43	28	N.D.	
44) 13-DICHLOROPROPANE	0.000		0	N.D.	
45) DIBRCHLOROMETHANE	0.000		0	N.D. d	
46) TETRACHLOROETHENE	9.991	166	149	N.D.	
47) 12-DIBROMOETHANE	0.000		0	N.D.	
49) CHLOROBENZENE	11.620	112	28	N.D.	
50) 1-CHLOROHEXANE	11.558	91	3684	N.D.	
51) 1112-TETRACLETHANE	0.000		0	N.D.	
52) ETHYLBENZENE	11.782	91	891	N.D.	
53) MP-XYLENE	12.007	91	1264	N.D.	
54) STYRENE	0.000		0	N.D.	
55) O-XYLENE	12.797	91	348	N.D.	
56) BROMOFORM	13.301	173	21397	1.23 µg/L	99
57) 1122-TETRACLETHANE	0.000		0	N.D.	
58) ISOPROPYL BENZENE	13.516	105	55	N.D.	
60) 123-TRICLPROPANE	0.000		0	N.D.	
61) TRANS14DICL2BUTENE	0.000		0	N.D.	
62) BROMOBENZENE	13.946	77	115	N.D.	
63) N-PROPYLBENZENE	14.378	91	1010	N.D.	
64) 2-CHLOROTOLUENE	14.579	91	67	N.D.	
65) 4-CHLOROTOLUENE	14.796	91	46	N.D.	
66) 135TRIMETHYLBENZENE	14.587	105	25	N.D.	
67) TERT-BUTYLBENZENE	15.415	119	111	N.D.	
68) 124TRIMETHYLBENZENE	15.538	105	598	N.D.	
69) SEC-BUTYLBENZENE	15.870	105	416	N.D.	
70) 13-DICHLOROBENZENE	16.149	146	240	N.D.	
72) 4-ISOPROPYLTOLUENE	16.216	119	623	N.D.	
73) 14-DICHLOROBENZENE	16.347	146	229	N.D.	
74) 12-DICHLOROBENZENE	17.161	146	97	N.D.	
75) N-BUTYLBENZENE	17.094	91	1112	N.D.	
76) 12-DIBR-3CLPROPANE	0.000		0	N.D.	
77) 124-TRICLBENZENE	20.691	180	55	N.D.	
78) NAPHTHALENE	21.269	128	503	N.D.	
79) HEXACHLOROBUTADIENE	21.001	225	122	N.D.	
80) 123-TRICLBENZENE	21.782	182	294	N.D.	

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

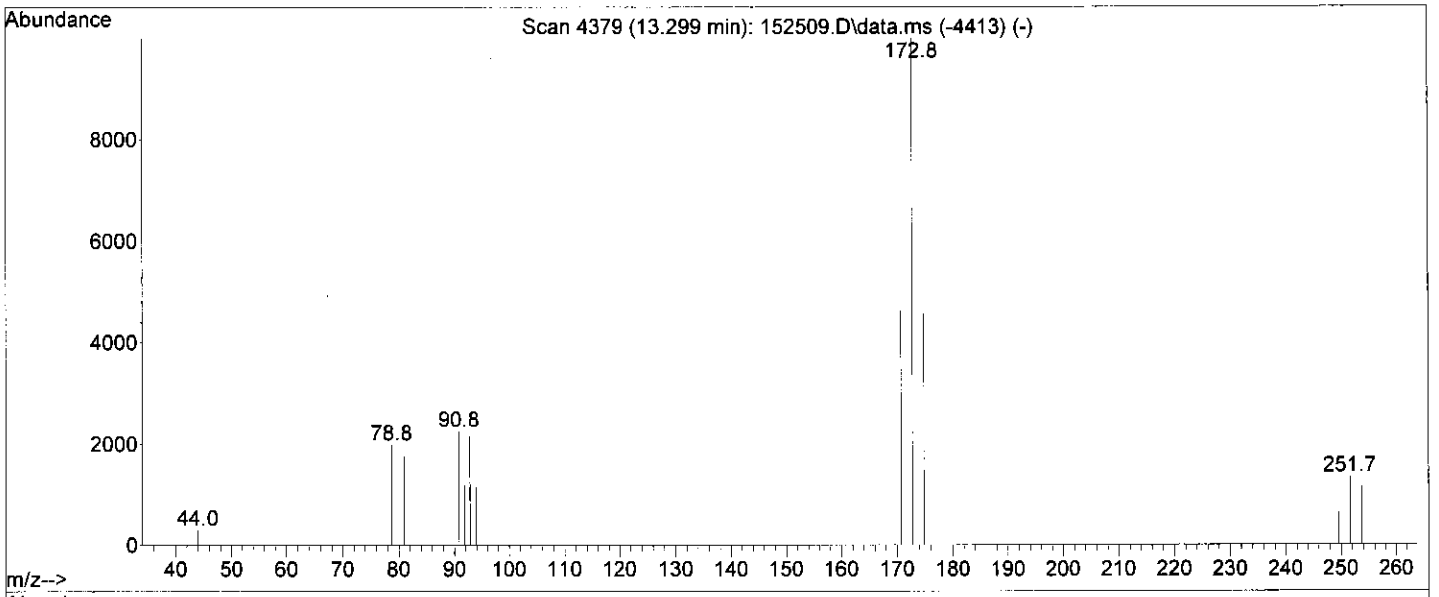
Quantitation Report (QT Reviewed)

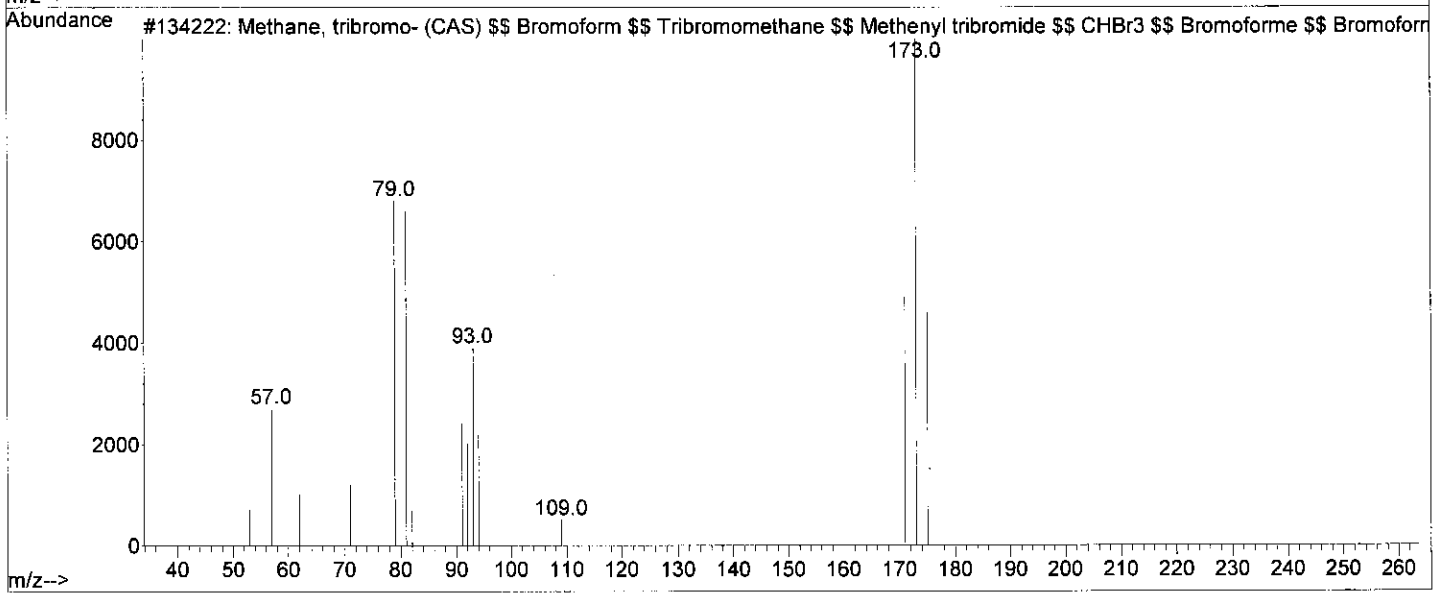
Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152508.D
Acq On : 08 Sep 2017 06:14 pm
Operator : NIVA
Sample : 2721709
Misc : RUN191525
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 12 08:59:50 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration



Library Searched : D:\MassHunter\Library\WILEY275.L
Quality : 56
ID : Methane, tribromo- (CAS) $$ Bromoform $$ Tribromomethane $$ Methenyl tribromide $$ CHBr3 $$ Bromoforme $$ Bromoformio $$ NCI-C55130 $$ Tribrommethaan $$ Tribrommethan $$ Tribromometan $$ Rcra waste number U225 $$ UN 2515





Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152509.D
Acq On : 08 Sep 2017 06:44 pm
Operator : NIVA
Sample : 2721710
Misc : RUN191525
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 12 09:00:31 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IPENTAFLUOROBENZENE	5.833	168	159342	20.00	µg/L	# 0.00
23) I14-DIFLUOROBENZENE	6.810	114	568734	20.00	µg/L	0.00
48) CHLOROBENZEN-d5-IS	11.561	117	1910951	20.00	µg/L	0.00
71) I14-DICLBENZENE-D4	16.302	152	1823354	20.00	µg/L	0.00
System Monitoring Compounds						
24) SDIBRFLUOROMETHANE	5.847	111	152954	19.95	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 99.75%			
39) STOLUENE-D8	8.993	98	945791	19.71	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 98.55%			
59) S4BRFLUOROBENZENE	13.896	95	1296012	19.78	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 98.90%			
Target Compounds						Qvalue
2) DICLDIFLUOROMETHANE	0.000		0	N.D.		
3) CHLOROMETHANE	2.136	50	314	N.D.		
4) VINYL CHLORIDE	0.000		0	N.D.		
5) BROMOMETHANE	2.537	94	232	N.D.		
6) CHLOROETHANE	2.660	64	657	N.D.		
7) TRICLFLUOROMETHANE	0.000		0	N.D.		
8) ACROLEIN	3.304	56	108	N.D.		
9) ACETONE	0.000		0	N.D.	d	
10) 11-DICHLOROETHENE	0.000		0	N.D.		
11) IODOMETHANE	3.538	142	1522	N.D.		
12) CARBON DISULFIDE	3.561	76	5002	N.D.		
13) ACRYLONITRILE	0.000		0	N.D.		
14) DICHLOROMETHANE	3.862	84	6064	N.D.		
15) TRANS12DICLETHENE	4.110	96	118	N.D.		
16) 11-DICHLOROETHANE	4.651	63	1330	N.D.		
17) VINYL ACETATE	4.620	43	70	N.D.		
18) 2-BUTANONE	0.000		0	N.D.	d	
19) CIS12DICHLOROETHENE	5.253	96	26	N.D.		
20) 22-DICHLOROPROPANE	0.000		0	N.D.		
21) CHLOROFORM	5.630	83	881	N.D.		
22) BROMOCHLOROMETHANE	5.627	49	666	N.D.		
25) TETRAHYDROFURAN	5.638	42	5537	N.D.		
26) 111-TRICHLOROETHANE	0.000		0	N.D.		
27) 11-DICHLOROPROPENE	5.831	75	8464	N.D.		
28) 12-DICHLOROETHANE	0.000		0	N.D.		
29) CARBONTETRACHLORIDE	5.939	117	25	N.D.		
30) BENZENE	6.291	78	919	N.D.		
31) TRICHLOROETHENE	0.000		0	N.D.		
32) 12-DICHLOROPROPANE	0.000		0	N.D.		
33) DIBROMOMETHANE	0.000		0	N.D.		
34) BROMODICLMETHANE	7.967	83	518	N.D.		
35) 2-CLETHYLVINYLETHER	8.257	63	3898	N.D.		
36) EPICHLOROHYDRIN	0.000		0	N.D.		
37) 4METHYL-2-PENTANONE	8.893	43	474	N.D.		
38) CIS13DICLPROPENE	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152509.D
Acq On : 08 Sep 2017 06:44 pm
Operator : NIVA
Sample : 2721710
Misc : RUN191525
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 12 09:00:31 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration

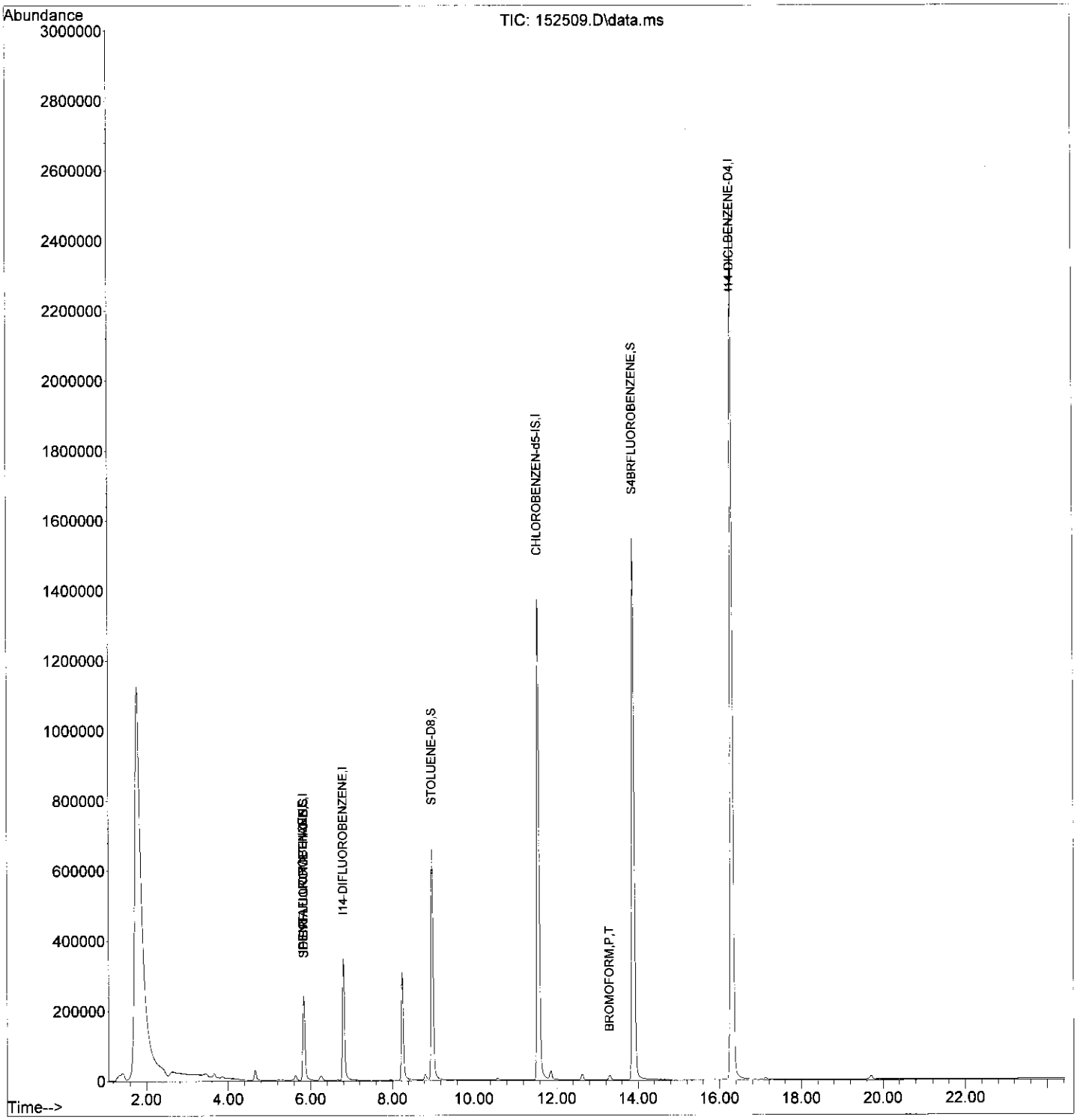
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) TOLUENE	9.082	91	278	N.D.	
41) TRANS13DICLPROPENE	0.000		0	N.D.	
42) 112-TRICHLOROETHANE	0.000		0	N.D.	
43) 2-HEXANONE	0.000		0	N.D.	
44) 13-DICHLOROPROPANE	0.000		0	N.D.	
45) DIBRCHLOROMETHANE	10.583	129	8095	N.D.	
46) TETRACHLOROETHENE	9.989	166	26	N.D.	
47) 12-DIBROMOETHANE	0.000		0	N.D.	
49) CHLOROBENZENE	11.600	112	28	N.D.	
50) 1-CHLOROHEXANE	11.553	91	1979	N.D.	
51) 1112-TETRACLETHANE	0.000		0	N.D.	
52) ETHYLBENZENE	11.776	91	313	N.D.	
53) MP-XYLENE	12.016	91	84	N.D.	
54) STYRENE	0.000		0	N.D.	
55) O-XYLENE	12.800	91	65	N.D.	
56) BROMOFORM	13.299	173	15195	0.83 µg/L	96
57) 1122-TETRACLETHANE	0.000		0	N.D.	
58) ISOPROPYL BENZENE	13.513	105	138	N.D.	
60) 123-TRICLPROPANE	0.000		0	N.D.	
61) TRANS14DICL2BUTENE	0.000		0	N.D.	
62) BROMOBENZENE	14.172	77	134	N.D.	
63) N-PROPYLBENZENE	14.361	91	346	N.D.	
64) 2-CHLOROTOLUENE	14.576	91	28	N.D.	
65) 4-CHLOROTOLUENE	14.796	91	75	N.D.	
66) 135TRIMETHYLBENZENE	0.000		0	N.D.	
67) TERT-BUTYLBENZENE	15.413	119	33	N.D.	
68) 124TRIMETHYLBENZENE	0.000		0	N.D.	
69) SEC-BUTYLBENZENE	15.870	105	341	N.D.	
70) 13-DICHLOROBENZENE	16.160	146	85	N.D.	
72) 4-ISOPROPYLTOLUENE	16.305	119	254	N.D.	
73) 14-DICHLOROBENZENE	16.358	146	266	N.D.	
74) 12-DICHLOROBENZENE	0.000		0	N.D.	
75) N-BUTYLBENZENE	17.103	91	689	N.D.	
76) 12-DIBR-3CLPROPANE	0.000		0	N.D.	
77) 124-TRICLBENZENE	20.692	180	209	N.D.	
78) NAPHTHALENE	21.244	128	87	N.D.	
79) HEXACHLOROBUTADIENE	21.009	225	36	N.D.	
80) 123-TRICLBENZENE	21.779	182	89	N.D.	

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

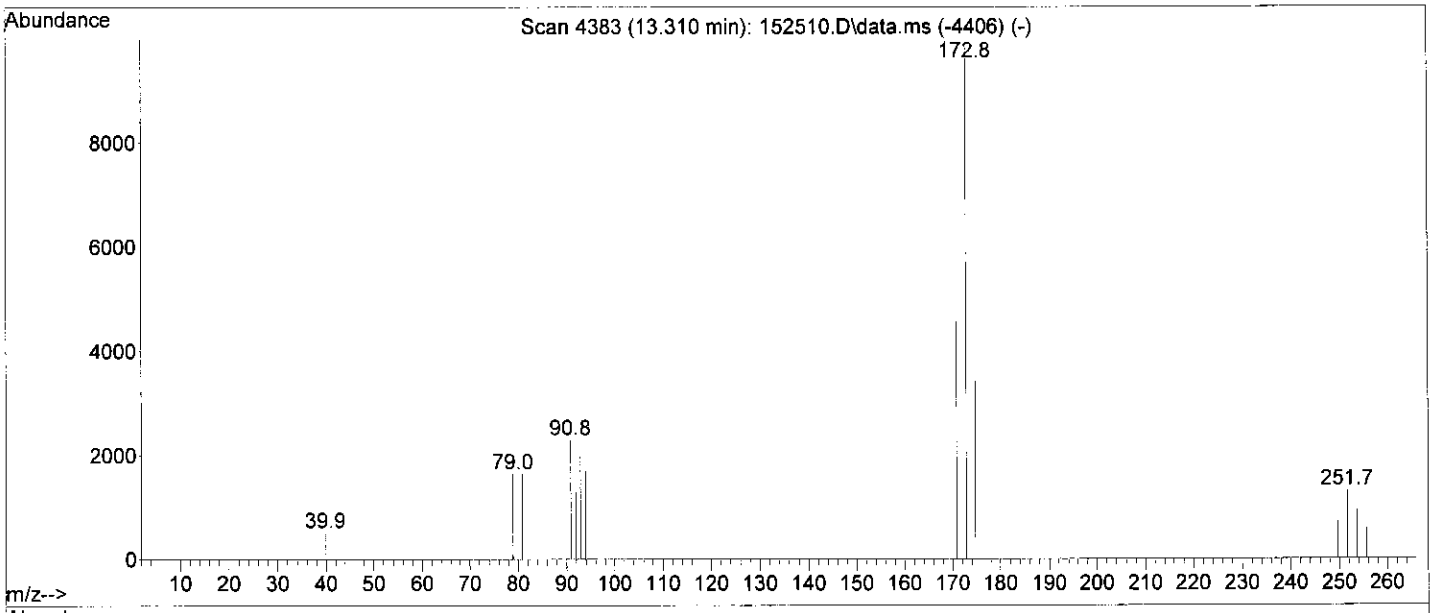
Quantitation Report (QT Reviewed)

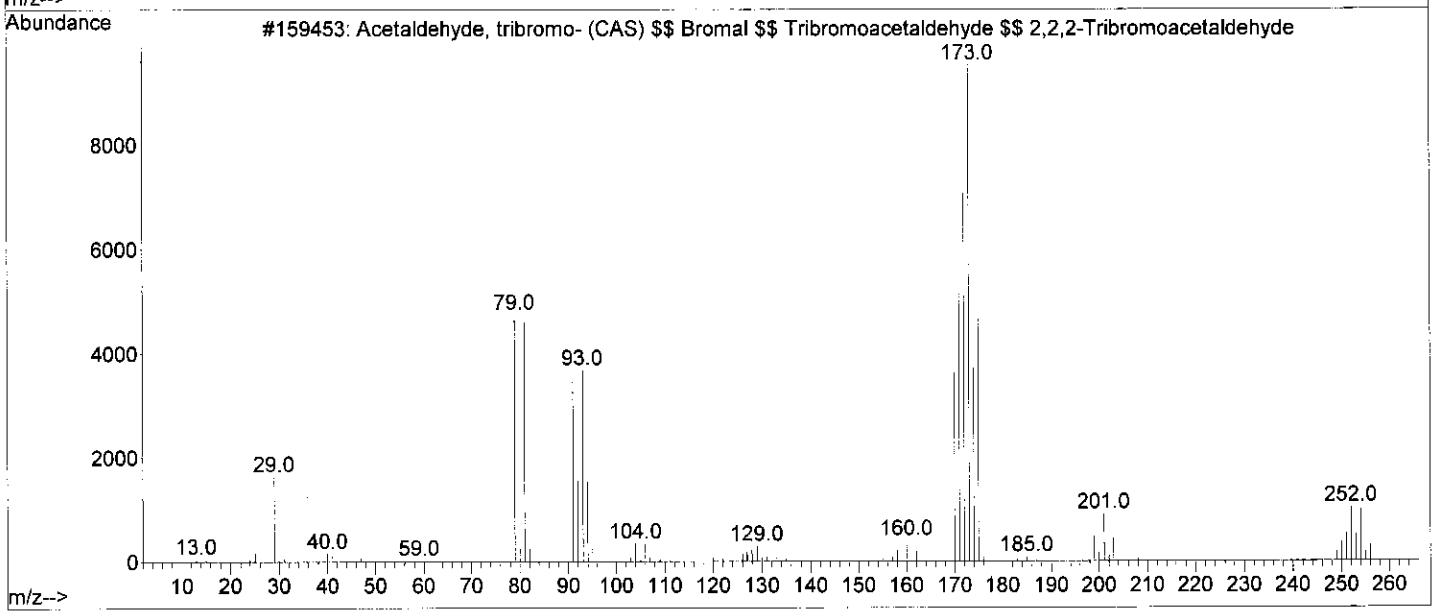
Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152509.D
Acq On : 08 Sep 2017 06:44 pm
Operator : NIVA
Sample : 2721710
Misc : RUN191525
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 12 09:00:31 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration



Library Searched : D:\MassHunter\Library\WILEY275.L
Quality : 78
ID : Acetaldehyde, tribromo- (CAS) $$ Bromal $$ Tribromoacetaldehyde $$ 2,2,2-Tribromoacetaldehyde





Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152510.D
Acq On : 08 Sep 2017 07:15 pm
Operator : NIVA
Sample : 2721711
Misc : RUN191525
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 12 09:01:09 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IPENTAFLUOROBENZENE	5.828	168	149993	20.00	µg/L	#-0.01
23) I14-DIFLUOROBENZENE	6.804	114	537399	20.00	µg/L	0.00
48) CHLOROBENZEN-d5-IS	11.561	117	1814159	20.00	µg/L	0.00
71) I14-DICLBENZENE-D4	16.299	152	1729570	20.00	µg/L	0.00
System Monitoring Compounds						
24) SDIBRFLUOROMETHANE	5.847	111	144861	20.00	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 100.00%			
39) STOLUENE-D8	8.987	98	889807	19.62	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 98.10%			
59) S4BRFLUOROBENZENE	13.893	95	1234775	19.85	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 99.25%			
Target Compounds						Qvalue
2) DICLDIFLUOROMETHANE	0.000		0	N.D.		
3) CHLOROMETHANE	2.116	50	950	N.D.		
4) VINYL CHLORIDE	0.000		0	N.D.		
5) BROMOMETHANE	2.546	94	722	N.D.		
6) CHLOROETHANE	2.964	64	1007	N.D.		
7) TRICLFLUOROMETHANE	0.000		0	N.D.		
8) ACROLEIN	3.363	56	32	N.D.		
9) ACETONE	0.000		0	N.D.	d	
10) 11-DICHLOROETHENE	0.000		0	N.D.		
11) IODOMETHANE	3.524	142	497	N.D.		
12) CARBON DISULFIDE	3.558	76	4900	N.D.		
13) ACRYLONITRILE	0.000		0	N.D.		
14) DICHLOROMETHANE	3.859	84	5527	N.D.		
15) TRANS12DICLETHENE	3.973	96	74	N.D.		
16) 11-DICHLOROETHANE	4.657	63	755	N.D.		
17) VINYL ACETATE	4.629	43	139	N.D.		
18) 2-BUTANONE	5.318	43	2926	N.D.		
19) CIS12DICHLOROETHENE	5.231	96	29	N.D.		
20) 22-DICHLOROPROPANE	0.000		0	N.D.		
21) CHLOROFORM	5.633	83	761	N.D.		
22) BROMOCHLOROMETHANE	5.613	49	262	N.D.		
25) TETRAHYDROFURAN	5.627	42	5390	N.D.		
26) 111-TRICHLOROETHANE	0.000		0	N.D.		
27) 11-DICHLOROPROPENE	5.831	75	8524	N.D.		
28) 12-DICHLOROETHANE	0.000		0	N.D.		
29) CARBONTETRACHLORIDE	5.912	117	26	N.D.		
30) BENZENE	6.282	78	1417	N.D.		
31) TRICHLOROETHENE	0.000		0	N.D.		
32) 12-DICHLOROPROPANE	0.000		0	N.D.		
33) DIBROMOMETHANE	0.000		0	N.D.		
34) BROMODICLMETHANE	7.958	83	674	N.D.		
35) 2-CLETHYLVINYLETHER	8.329	63	27	N.D.		
36) EPICHLOROHYDRIN	0.000		0	N.D.		
37) 4METHYL-2-PENTANONE	8.879	43	250	N.D.		
38) CIS13DICLPROPENE	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152510.D
Acq On : 08 Sep 2017 07:15 pm
Operator : NIVA
Sample : 2721711
Misc : RUN191525
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 12 09:01:09 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration

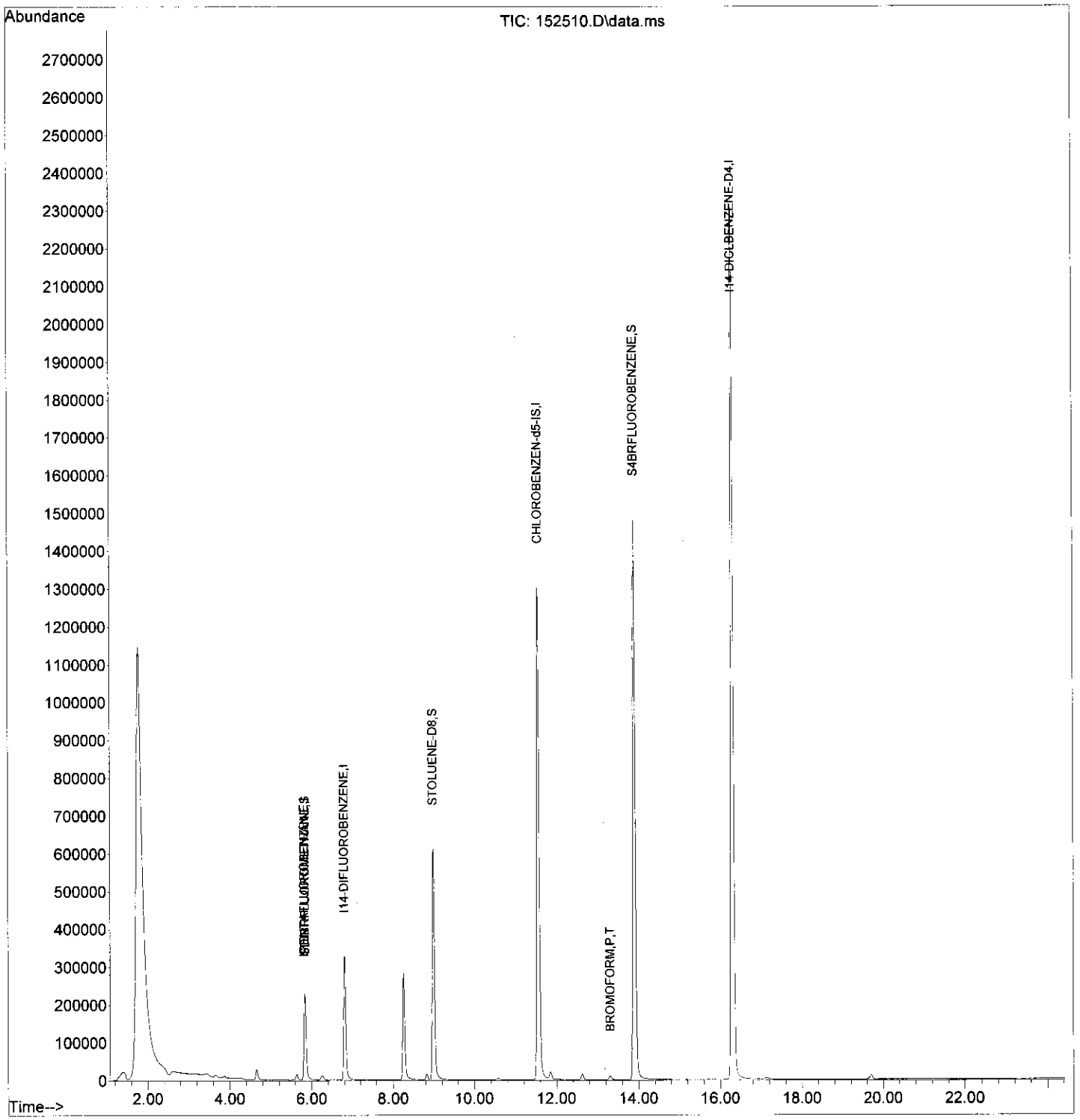
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) TOLUENE	9.116	91	258	N.D.	
41) TRANS13DICLPROPENE	0.000		0	N.D.	
42) 112-TRICHLOROETHANE	0.000		0	N.D.	
43) 2-HEXANONE	0.000		0	N.D.	
44) 13-DICHLOROPROPANE	0.000		0	N.D.	
45) DIBRCHLOROMETHANE	10.571	129	3250	N.D.	
46) TETRACHLOROETHENE	0.000		0	N.D.	
47) 12-DIBROMOETHANE	0.000		0	N.D.	
49) CHLOROBENZENE	11.606	112	57	N.D.	
50) 1-CHLOROHEXANE	11.534	91	679	N.D.	
51) 1112-TETRACLETHANE	0.000		0	N.D.	
52) ETHYLBENZENE	11.793	91	480	N.D.	
53) MP-XYLENE	12.008	91	153	N.D.	
54) STYRENE	0.000		0	N.D.	
55) O-XYLENE	12.794	91	30	N.D.	
56) BROMOFORM	13.310	173	12170	0.70 µg/L	94
57) 1122-TETRACLETHANE	0.000		0	N.D.	
58) ISOPROPYL BENZENE	13.511	105	31	N.D.	
60) 123-TRICLPROPANE	0.000		0	N.D.	
61) TRANS14DICL2BUTENE	0.000		0	N.D.	
62) BROMOBENZENE	14.163	77	96	N.D.	
63) N-PROPYLBENZENE	14.367	91	442	N.D.	
64) 2-CHLOROTOLUENE	14.576	91	29	N.D.	
65) 4-CHLOROTOLUENE	14.785	91	56	N.D.	
66) 135TRIMETHYLBENZENE	0.000		0	N.D.	
67) TERT-BUTYLBENZENE	0.000		0	N.D.	
68) 124TRIMETHYLBENZENE	0.000		0	N.D.	
69) SEC-BUTYLBENZENE	15.875	105	98	N.D.	
70) 13-DICHLOROBENZENE	16.146	146	26	N.D.	
72) 4-ISOPROPYLTOLUENE	16.305	119	268	N.D.	
73) 14-DICHLOROBENZENE	16.363	146	156	N.D.	
74) 12-DICHLOROBENZENE	17.158	146	29	N.D.	
75) N-BUTYLBENZENE	17.089	91	546	N.D.	
76) 12-DIBR-3CLPROPANE	0.000		0	N.D.	
77) 124-TRICLBENZENE	20.686	180	62	N.D.	
78) NAPHTHALENE	21.266	128	29	N.D.	
79) HEXACHLOROBUTADIENE	21.004	225	30	N.D.	
80) 123-TRICLBENZENE	21.799	182	34	N.D.	

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

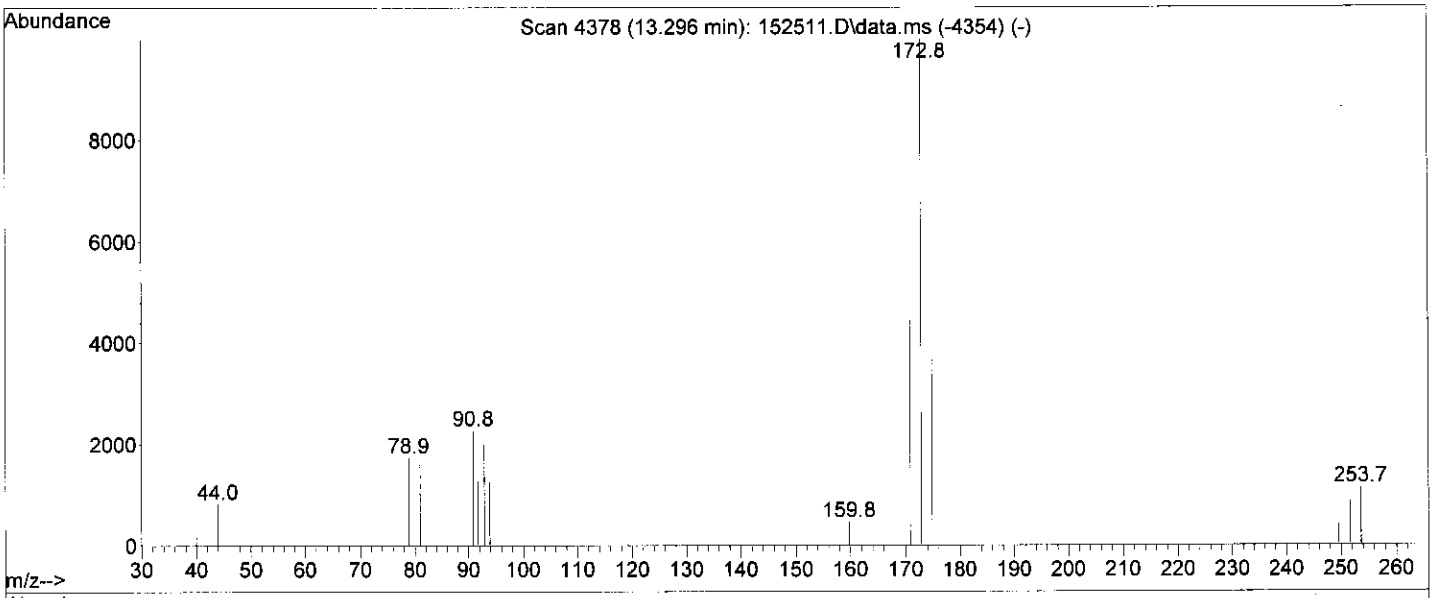
Quantitation Report (QT Reviewed)

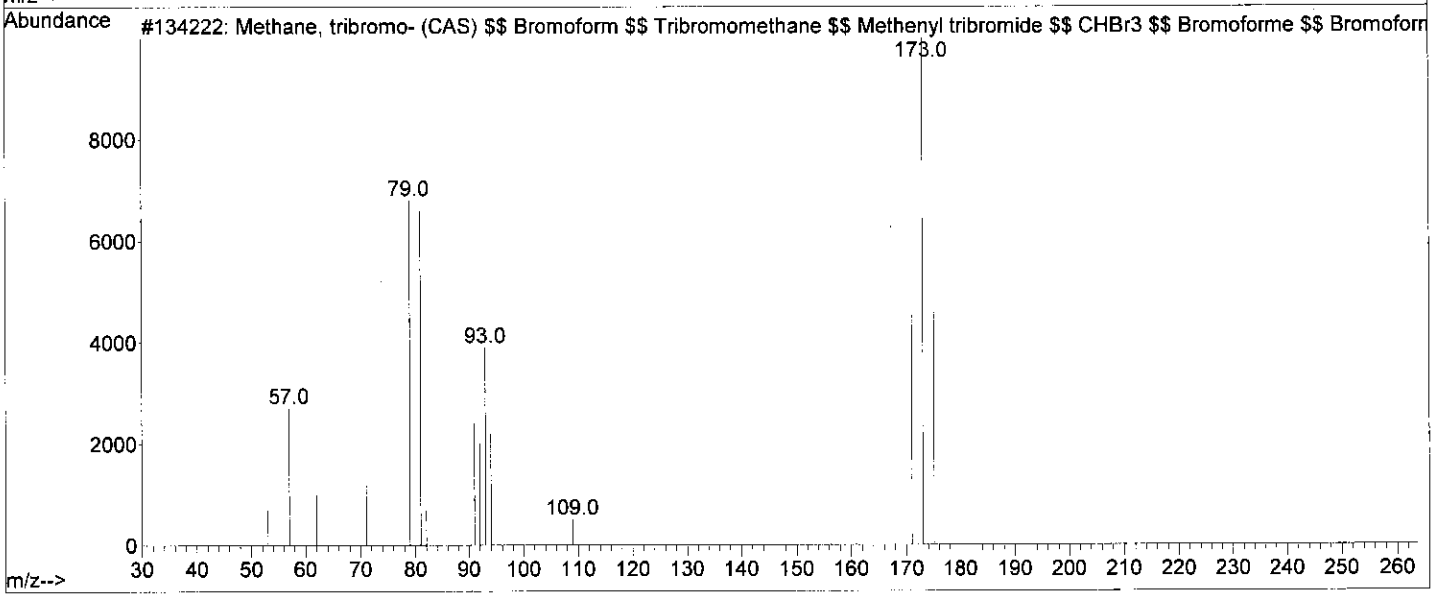
Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152510.D
Acq On : 08 Sep 2017 07:15 pm
Operator : NIVA
Sample : 2721711
Misc : RUN191525
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 12 09:01:09 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration



Library Searched : D:\MassHunter\Library\WILEY275.L
Quality : 56
ID : Methane, tribromo- (CAS) $$ Bromoform $$ Tribromomethane $$ Methenyl tribromide $$ CHBr3 $$ Bromoforme $$ Bromoformio $$ NCI-C55130 $$ Tribrommethaan $$ Tribrommethan $$ Tribromometan $$ Rcra waste number U225 $$ UN 2515





Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152511.D
Acq On : 08 Sep 2017 07:46 pm
Operator : NIVA
Sample : 2721712
Misc : RUN191525
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 12 09:01:44 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IPENTAFLUOROBENZENE	5.831	168	154629	20.00	µg/L	# 0.00
23) I14-DIFLUOROBENZENE	6.807	114	552982	20.00	µg/L	0.00
48) CHLOROBENZEN-d5-IS	11.562	117	1897216	20.00	µg/L	0.00
71) I14-DICLBENZENE-D4	16.299	152	1807148	20.00	µg/L	0.00
System Monitoring Compounds						
24) SDIBRFLUOROMETHANE	5.848	111	149931	20.11	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 100.55%			
39) STOLUENE-D8	8.990	98	926223	19.85	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 99.25%			
59) S4BRFLUOROBENZENE	13.893	95	1290711	19.84	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 99.20%			

Target Compounds				Qvalue
2) DICLDIFLUOROMETHANE	0.000		0	N.D.
3) CHLOROMETHANE	2.169	50	105	N.D.
4) VINYL CHLORIDE	0.000		0	N.D.
5) BROMOMETHANE	2.529	94	498	N.D.
6) CHLOROETHANE	2.599	64	442	N.D.
7) TRICLFLUOROMETHANE	0.000		0	N.D.
8) ACROLEIN	3.310	56	132	N.D.
9) ACETONE	0.000		0	N.D. d
10) 11-DICHLOROETHENE	0.000		0	N.D.
11) IODOMETHANE	3.522	142	338	N.D.
12) CARBON DISULFIDE	3.564	76	6062	N.D.
13) ACRYLONITRILE	0.000		0	N.D.
14) DICHLOROMETHANE	3.823	84	169	N.D.
15) TRANS12DICLETHENE	4.119	96	61	N.D.
16) 11-DICHLOROETHANE	4.651	63	1092	N.D.
17) VINYL ACETATE	4.629	43	80	N.D.
18) 2-BUTANONE	5.315	43	2981	N.D.
19) CIS12DICHLOROETHENE	5.206	96	28	N.D.
20) 22-DICHLOROPROPANE	0.000		0	N.D.
21) CHLOROFORM	5.638	83	1057	N.D.
22) BROMOCHLOROMETHANE	5.599	49	145	N.D.
25) TETRAHYDROFURAN	5.633	42	4942	N.D.
26) 111-TRICHLOROETHANE	0.000		0	N.D.
27) 11-DICHLOROPROPENE	5.828	75	8500	N.D.
28) 12-DICHLOROETHANE	0.000		0	N.D.
29) CARBONTETRACHLORIDE	5.928	117	38	N.D.
30) BENZENE	6.288	78	860	N.D.
31) TRICHLOROETHENE	0.000		0	N.D.
32) 12-DICHLOROPROPANE	0.000		0	N.D.
33) DIBROMOMETHANE	0.000		0	N.D.
34) BROMODICLMETHANE	7.959	83	1731	N.D.
35) 2-CLETHYLVINYLETHER	8.254	63	3861	N.D.
36) EPICHLOROHYDRIN	8.812	57	26	N.D.
37) 4METHYL-2-PENTANONE	8.887	43	212	N.D.
38) CIS13DICLPROPENE	0.000		0	N.D.

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152511.D
Acq On : 08 Sep 2017 07:46 pm
Operator : NIVA
Sample : 2721712
Misc : RUN191525
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 12 09:01:44 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration

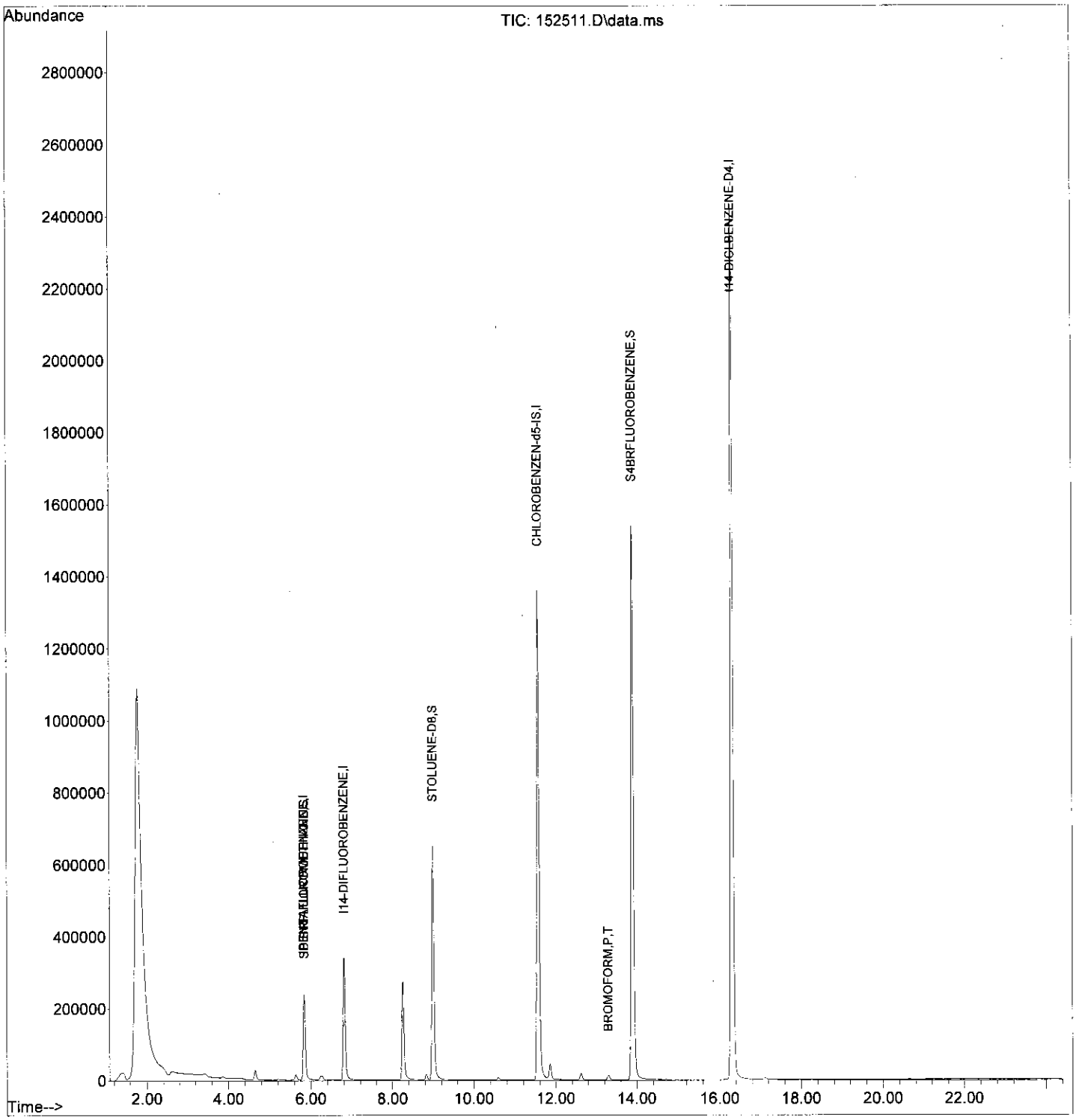
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) TOLUENE	9.094	91	244	N.D.	
41) TRANS13DICLPROPENE	0.000		0	N.D.	
42) 112-TRICHLOROETHANE	0.000		0	N.D.	
43) 2-HEXANONE	0.000		0	N.D.	
44) 13-DICHLOROPROPANE	0.000		0	N.D.	
45) DIBRCHLOROMETHANE	10.580	129	7931	N.D.	
46) TETRACHLOROETHENE	0.000		0	N.D.	
47) 12-DIBROMOETHANE	0.000		0	N.D.	
49) CHLOROBENZENE	11.623	112	26	N.D.	
50) 1-CHLOROHEXANE	11.562	91	3617	N.D.	
51) 1112-TETRACLETHANE	0.000		0	N.D.	
52) ETHYLBENZENE	11.790	91	571	N.D.	
53) MP-XYLENE	12.011	91	697	N.D.	
54) STYRENE	0.000		0	N.D.	
55) O-XYLENE	12.794	91	33	N.D.	
56) BROMOFORM	13.296	173	14795	0.81 µg/L	93
57) 1122-TETRACLETHANE	0.000		0	N.D.	
58) ISOPROPYL BENZENE	13.519	105	26	N.D.	
60) 123-TRICLPROPANE	0.000		0	N.D.	
61) TRANS14DICL2BUTENE	0.000		0	N.D.	
62) BROMOBENZENE	14.172	77	49	N.D.	
63) N-PROPYLBENZENE	14.364	91	57	N.D.	
64) 2-CHLOROTOLUENE	0.000		0	N.D.	
65) 4-CHLOROTOLUENE	14.791	91	32	N.D.	
66) 135TRIMETHYLBENZENE	14.612	105	26	N.D.	
67) TERT-BUTYLBENZENE	0.000		0	N.D.	
68) 124TRIMETHYLBENZENE	15.527	105	34	N.D.	
69) SEC-BUTYLBENZENE	15.876	105	139	N.D.	
70) 13-DICHLOROBENZENE	16.143	146	30	N.D.	
72) 4-ISOPROPYLTOLUENE	16.210	119	220	N.D.	
73) 14-DICHLOROBENZENE	16.350	146	57	N.D.	
74) 12-DICHLOROBENZENE	0.000		0	N.D.	
75) N-BUTYLBENZENE	17.097	91	442	N.D.	
76) 12-DIBR-3CLPROPANE	0.000		0	N.D.	
77) 124-TRICLBENZENE	20.672	180	27	N.D.	
78) NAPHTHALENE	21.261	128	290	N.D.	
79) HEXACHLOROBUTADIENE	0.000		0	N.D.	
80) 123-TRICLBENZENE	0.000		0	N.D.	

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

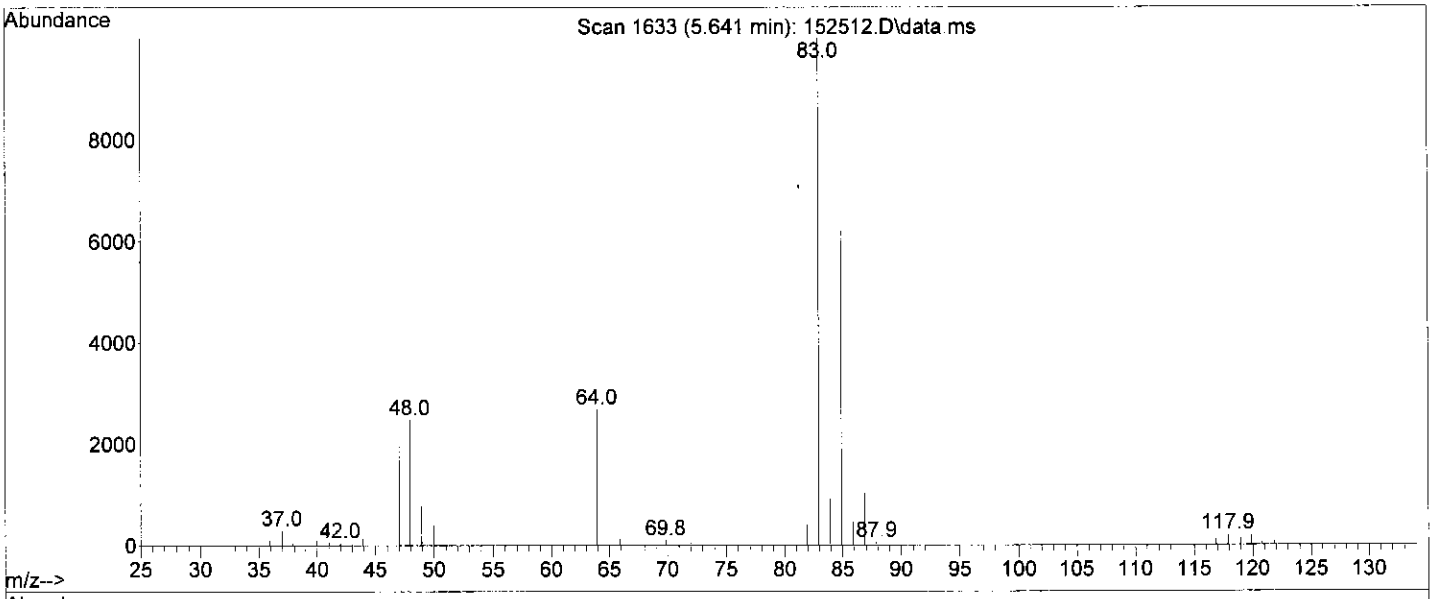
Quantitation Report (QT Reviewed)

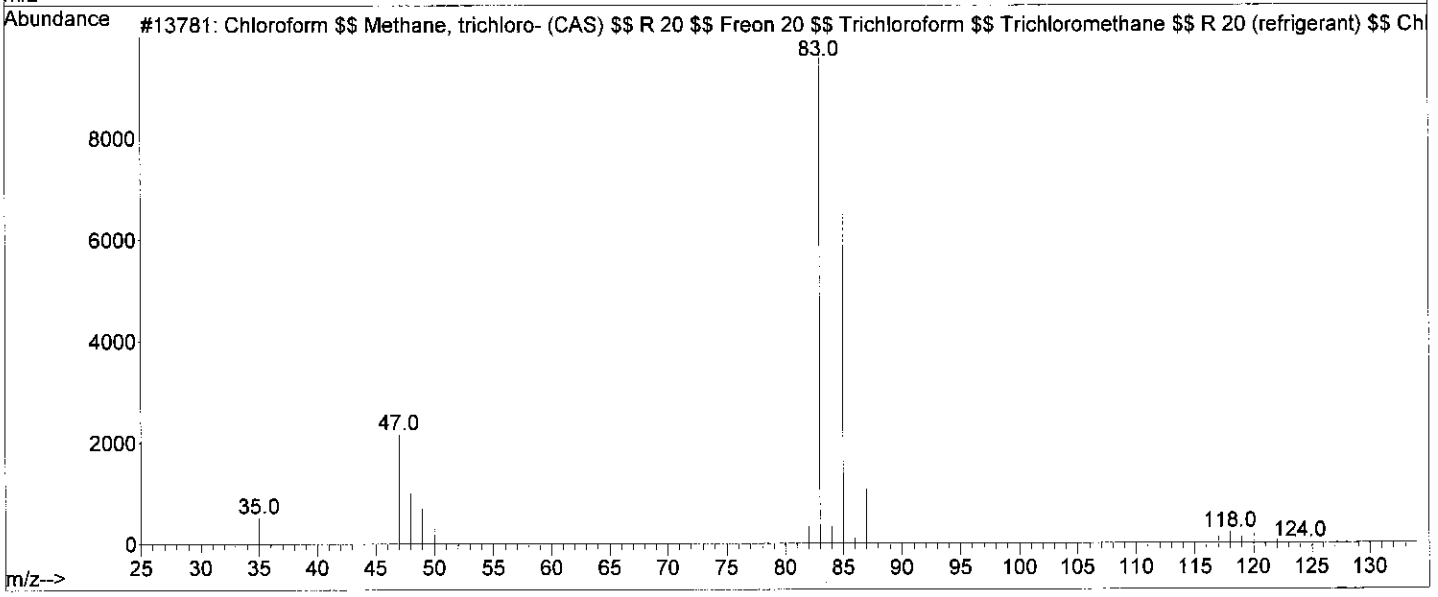
Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152511.D
Acq On : 08 Sep 2017 07:46 pm
Operator : NIVA
Sample : 2721712
Misc : RUN191525
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 12 09:01:44 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration

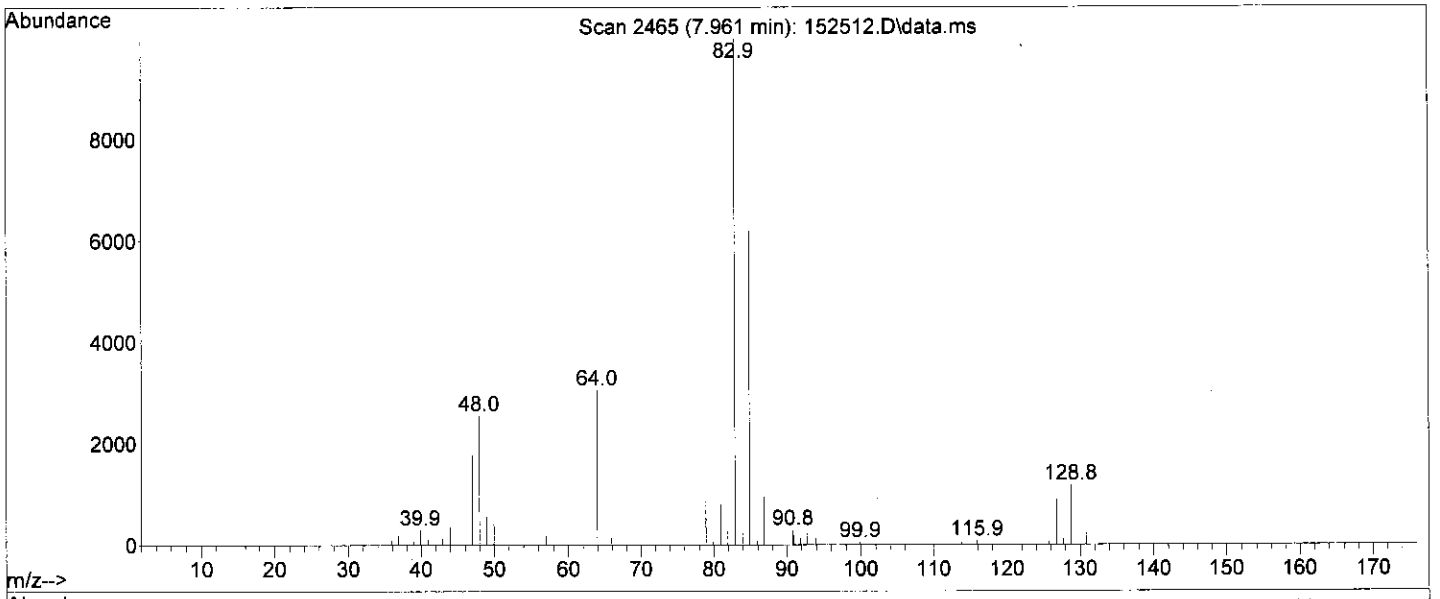


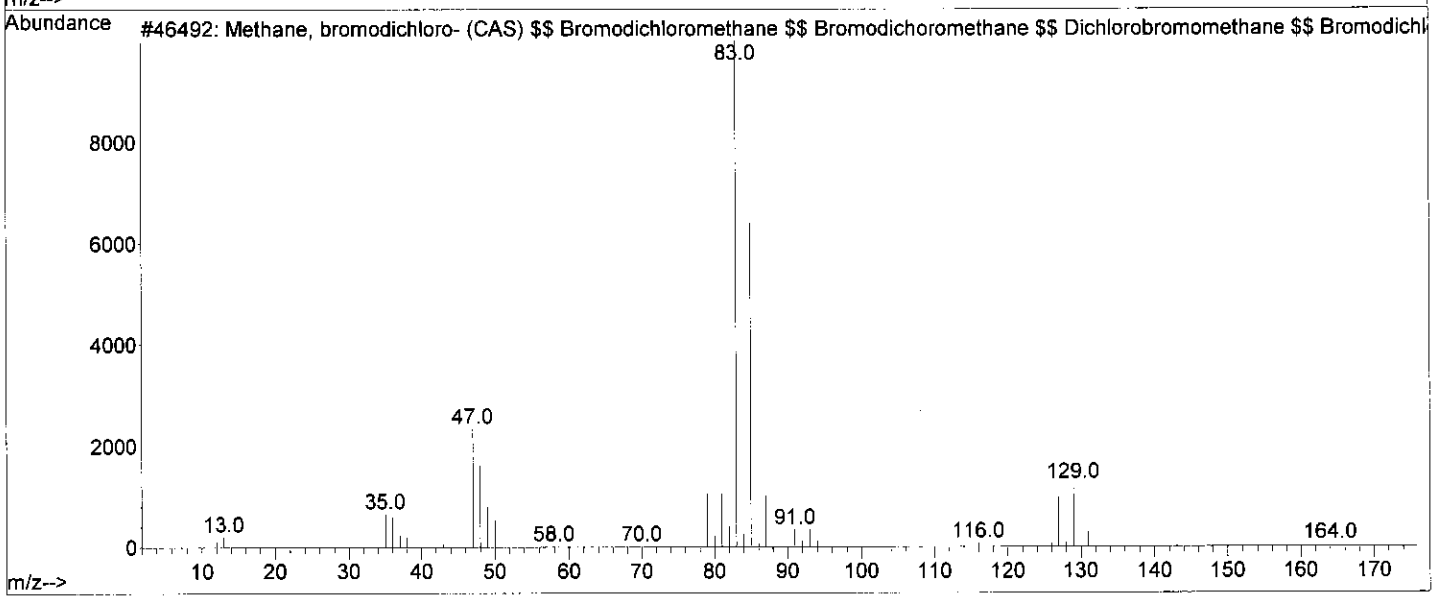
Library Searched : D:\MassHunter\Library\WILEY275.L
Quality : 81
ID : Chloroform $$ Methane, trichloro- (CAS) $$ R 20 $$ Freon 20 $$ Trichloroform $$ Trichloromethane $$ R 20 (refrigerant) $$ Chloroform (ACN)(DOT) $$ TRICHLOROMETHANE (CHLOROFORM) $$ CHCl3 $$ Formyl trichloride $$ Methane trichloride $$ Methenyl trichloride



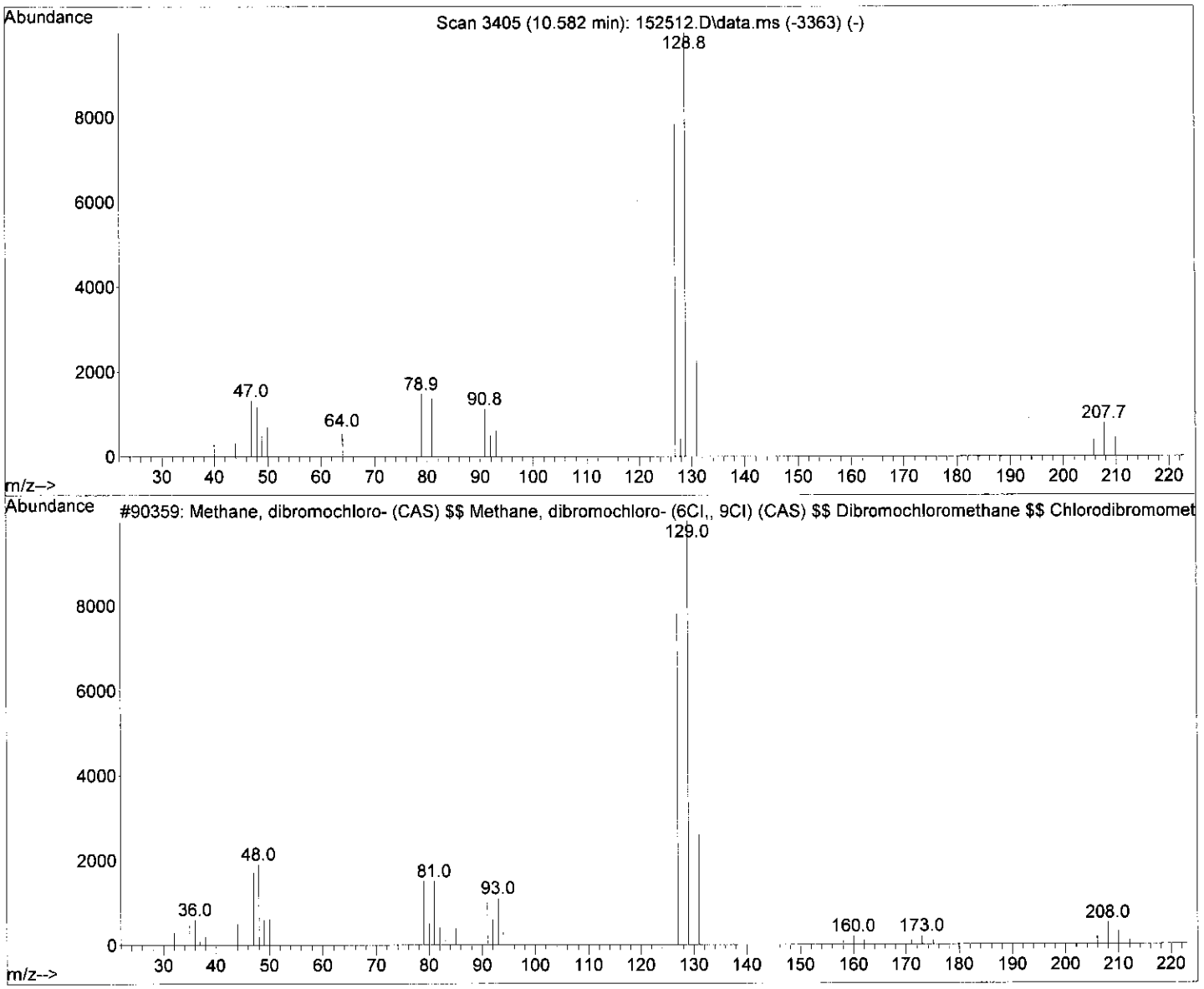


Library Searched : D:\MassHunter\Library\WILEY275.L
Quality : 80
ID : Methane, bromodichloro- (CAS) $$ Bromodichloromethane $$ Bromodichoromethane $$ Dichloro bromomethane $$ Bromodichloro-methane $$ CHBrCl2 $$ NCI-C55243 $$ Bdcm $$ Dichloromonobr omomethane $$ Monobromodichloromethane





Library Searched : D:\MassHunter\Library\WILEY275.L
Quality : 94
ID : Methane, dibromochloro- (CAS) $$ Methane, dibromochloro- (6CI,, 9CI) (CAS) $$ Dibromochloromethane $$ Chlorodibromomethane $$ Monochlorodibromomethane $$ Dibromomonochloromethane $$ CHClBr2 $$ Methane, chlorodibromo- $$ Cdbm $$ NCI-C55254



Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152512.D
Acq On : 08 Sep 2017 08:17 pm
Operator : NIVA
Sample : 2725812
Misc : RUN191525
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 12 09:02:13 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IPENTAFLUOROBENZENE	5.831	168	149248	20.00 µg/L	# 0.00
23) I14-DIFLUOROBENZENE	6.807	114	549145	20.00 µg/L	0.00
48) CHLOROBENZEN-d5-IS	11.558	117	1883936	20.00 µg/L	0.00
71) I14-DICLBENZENE-D4	16.305	152	1789838	20.00 µg/L	0.00
System Monitoring Compounds					
24) SDIBRFLUOROMETHANE	5.844	111	155494	21.00 µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 105.00%		
39) STOLUENE-D8	8.987	98	916393	19.78 µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 98.90%		
59) S4BRFLUOROBENZENE	13.893	95	1280143	19.81 µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 99.05%		
Target Compounds					Qvalue
2) DICLDIFLUOROMETHANE	0.000		0	N.D.	
3) CHLOROMETHANE	0.000		0	N.D. d	
4) VINYL CHLORIDE	2.545	62	38	N.D.	
5) BROMOMETHANE	0.000		0	N.D. d	
6) CHLOROETHANE	0.000		0	N.D. d	
7) TRICLFLUOROMETHANE	0.000		0	N.D.	
8) ACROLEIN	3.368	56	30	N.D.	
9) ACETONE	0.000		0	N.D. d	
10) 11-DICHLOROETHENE	0.000		0	N.D.	
11) IODOMETHANE	0.000		0	N.D. d	
12) CARBON DISULFIDE	3.555	76	15041	N.D.	
13) ACRYLONITRILE	4.132	53	26	N.D.	
14) DICHLOROMETHANE	3.825	84	90	N.D.	
15) TRANS12DICLETHENE	3.689	96	305	N.D.	
16) 11-DICHLOROETHANE	3.753	63	663	N.D.	
17) VINYL ACETATE	4.623	43	116	N.D.	
18) 2-BUTANONE	5.315	43	1685	N.D.	
19) CIS12DICHLOROETHENE	5.214	96	57	N.D.	
20) 22-DICHLOROPROPANE	0.000		0	N.D.	
21) CHLOROFORM	5.641	83	275193	6.29 µg/L	99
22) BROMOCHLOROMETHANE	5.552	49	26	N.D.	
25) TETRAHYDROFURAN	5.641	42	868	N.D.	
26) 111-TRICHLOROETHANE	0.000		0	N.D.	
27) 11-DICHLOROPROPENE	5.831	75	8263	N.D.	
28) 12-DICHLOROETHANE	0.000		0	N.D.	
29) CARBONTETRACHLORIDE	5.939	117	29	N.D.	
30) BENZENE	6.282	78	495	N.D.	
31) TRICHLOROETHENE	0.000		0	N.D.	
32) 12-DICHLOROPROPANE	7.258	63	25	N.D.	
33) DIBROMOMETHANE	0.000		0	N.D.	
34) BROMODICLMETHANE	7.961	83	105748	3.18 µg/L	99
35) 2-CLETHYLVINYLETHER	0.000		0	N.D.	
36) EPICHLOROHYDRIN	8.642	57	30	N.D.	
37) 4METHYL-2-PENTANONE	8.884	43	129	N.D.	
38) CIS13DICLPROPENE	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152512.D
Acq On : 08 Sep 2017 08:17 pm
Operator : NIVA
Sample : 2725812
Misc : RUN191525
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 12 09:02:13 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration

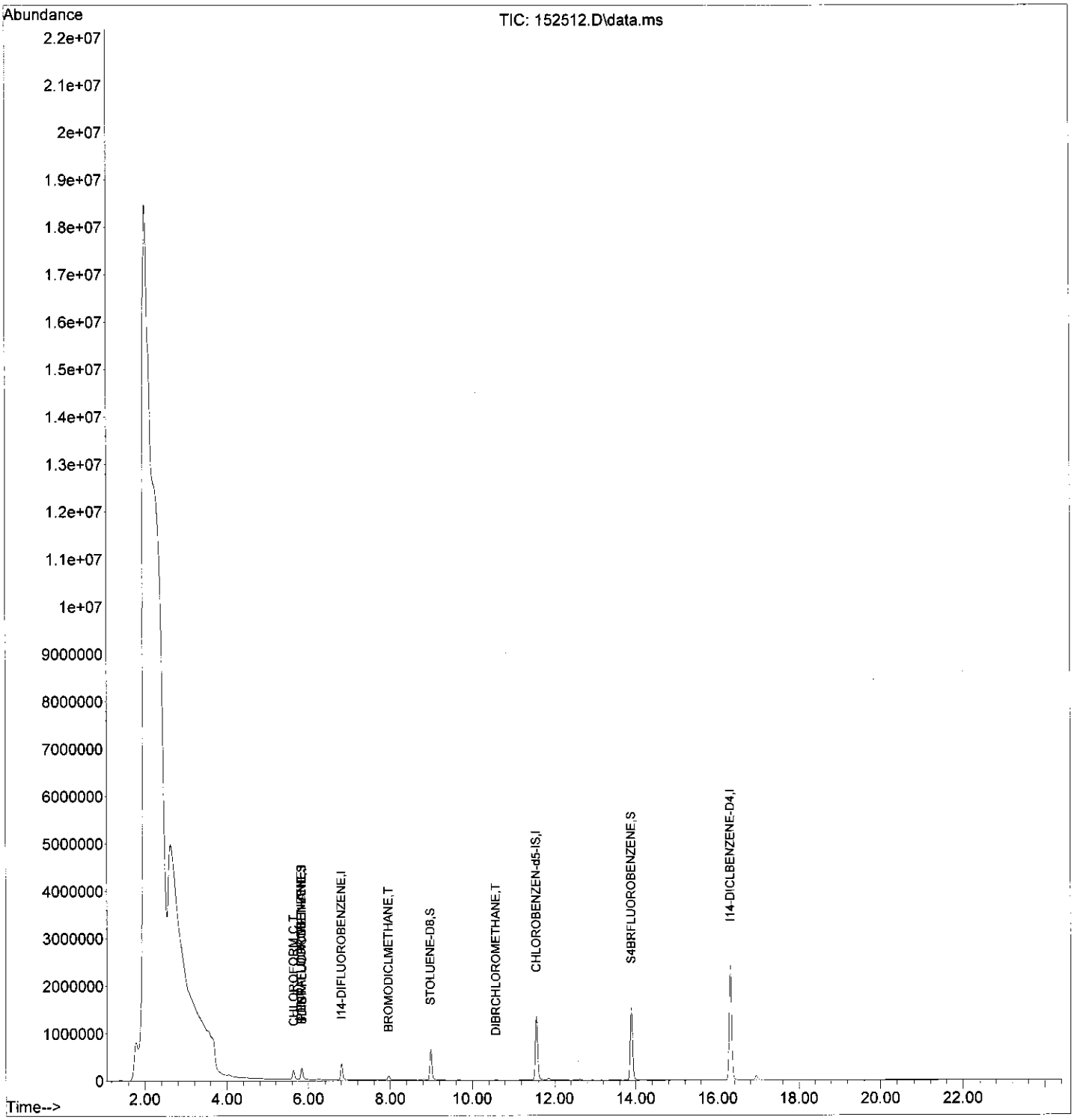
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40)	TOLUENE	9.099	91	4150	N.D.	
41)	TRANS13DICLPROPENE	9.671	75	31	N.D.	
42)	112-TRICHLOROETHANE	0.000		0	N.D.	
43)	2-HEXANONE	10.278	43	31	N.D.	
44)	13-DICHLOROPROPANE	0.000		0	N.D.	
45)	DIBRCHLOROMETHANE	10.580	129	16648	0.63 µg/L	94
46)	TETRACHLOROETHENE	0.000		0	N.D.	
47)	12-DIBROMOETHANE	0.000		0	N.D.	
49)	CHLOROBENZENE	0.000		0	N.D.	
50)	1-CHLOROHEXANE	11.558	91	3695	N.D.	
51)	1112-TETRACLETHANE	0.000		0	N.D.	
52)	ETHYLBENZENE	11.773	91	435	N.D.	
53)	MP-XYLENE	12.024	91	1118	N.D.	
54)	STYRENE	12.836	104	30	N.D.	
55)	O-XYLENE	12.785	91	312	N.D.	
56)	BROMOFORM	13.299	173	252	N.D.	
57)	1122-TETRACLETHANE	0.000		0	N.D.	
58)	ISOPROPYL BENZENE	13.508	105	26	N.D.	
60)	123-TRICLPROPANE	0.000		0	N.D.	
61)	TRANS14DICL2BUTENE	0.000		0	N.D.	
62)	BROMOBENZENE	13.960	77	27	N.D.	
63)	N-PROPYLBENZENE	14.355	91	445	N.D.	
64)	2-CHLOROTOLUENE	0.000		0	N.D.	
65)	4-CHLOROTOLUENE	14.802	91	33	N.D.	
66)	135TRIMETHYLBENZENE	14.738	105	47	N.D.	
67)	TERT-BUTYLBENZENE	0.000		0	N.D.	
68)	124TRIMETHYLBENZENE	15.518	105	475	N.D.	
69)	SEC-BUTYLBENZENE	15.867	105	32	N.D.	
70)	13-DICHLOROBENZENE	16.137	146	26	N.D.	
72)	4-ISOPROPYLTOLUENE	16.299	119	207	N.D.	
73)	14-DICHLOROBENZENE	16.349	146	3049	N.D.	
74)	12-DICHLOROBENZENE	0.000		0	N.D.	
75)	N-BUTYLBENZENE	17.077	91	526	N.D.	
76)	12-DIBR-3CLPROPANE	0.000		0	N.D.	
77)	124-TRICLBENZENE	20.686	180	38	N.D.	
78)	NAPHTHALENE	21.257	128	651	N.D.	
79)	HEXACHLOROBUTADIENE	0.000		0	N.D.	
80)	123-TRICLBENZENE	0.000		0	N.D.	

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

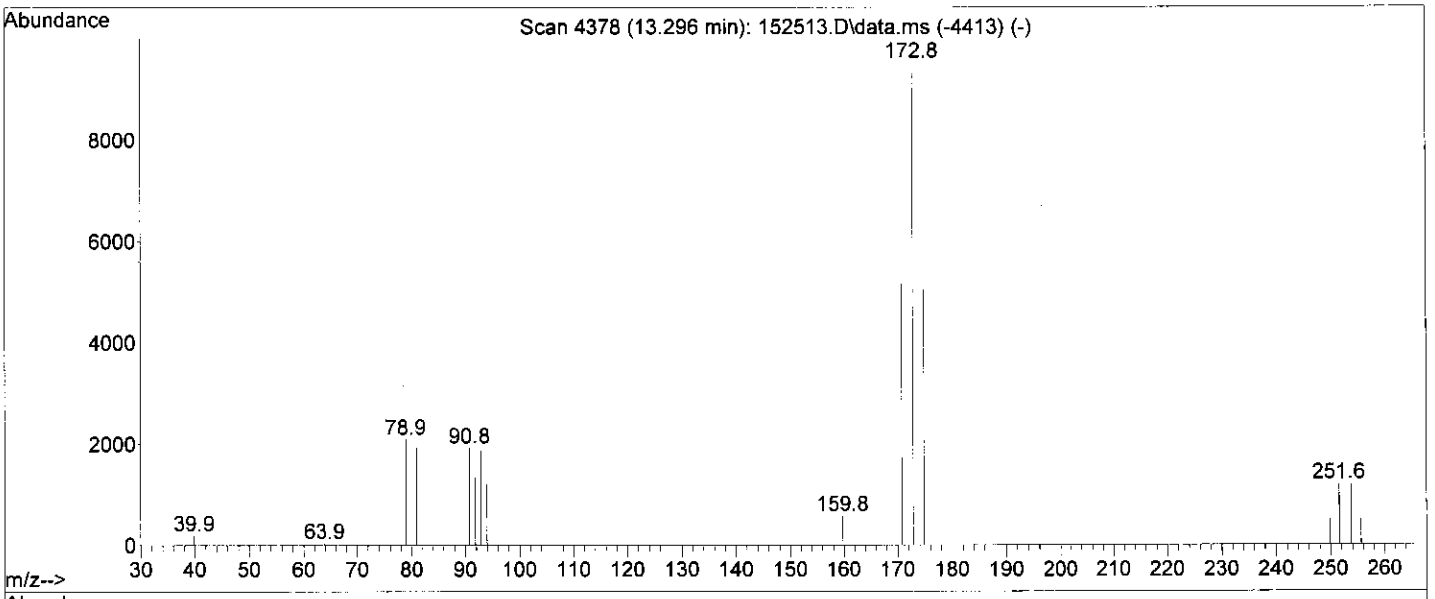
Quantitation Report (QT Reviewed)

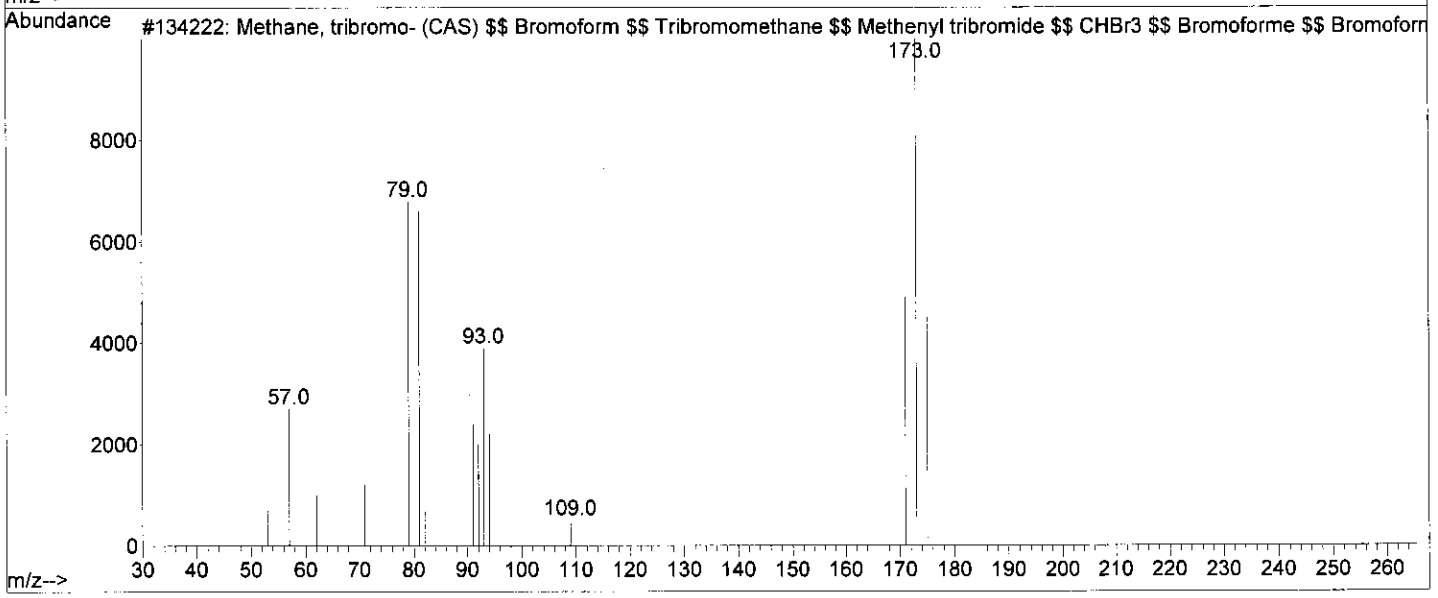
Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152512.D
Acq On : 08 Sep 2017 08:17 pm
Operator : NIVA
Sample : 2725812
Misc : RUN191525
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 12 09:02:13 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration



Library Searched : D:\MassHunter\Library\WILEY275.L
Quality : 56
ID : Methane, tribromo- (CAS) $$ Bromoform $$ Tribromomethane $$ Methenyl tribromide $$ CHBr3 $$ Bromoforme $$ Bromoformio $$ NCI-C55130 $$ Tribrommethaan $$ Tribrommethan $$ Tribromometan $$ Rcra waste number U225 $$ UN 2515





Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152513.D
Acq On : 08 Sep 2017 08:47 pm
Operator : NIVA
Sample : 2721712DUP/2727009
Misc : RUN191525
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 12 09:03:57 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IPENTAFLUOROBENZENE	5.831	168	145179	20.00	µg/L	# 0.00
23) I14-DIFLUOROBENZENE	6.804	114	529117	20.00	µg/L	0.00
48) CHLOROBENZEN-d5-IS	11.559	117	1814902	20.00	µg/L	0.00
71) I14-DICLBENZENE-D4	16.305	152	1726892m	20.00	µg/L	0.00
System Monitoring Compounds						
24) SDIBRFLUOROMETHANE	5.845	111	147755	20.71	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 103.55%			
39) STOLUENE-D8	8.990	98	889194	19.92	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 99.60%			
59) S4BRFLUOROBENZENE	13.893	95	1230394	19.77	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 98.85%			
Target Compounds						Qvalue
2) DICLDIFLUOROMETHANE	0.000		0	N.D.		
3) CHLOROMETHANE	0.000		0	N.D.	d	
4) VINYL CHLORIDE	0.000		0	N.D.		
5) BROMOMETHANE	2.521	94	647	N.D.		
6) CHLOROETHANE	0.000		0	N.D.	d	
7) TRICLFLUOROMETHANE	0.000		0	N.D.		
8) ACROLEIN	3.332	56	35	N.D.		
9) ACETONE	0.000		0	N.D.	d	
10) 11-DICHLOROETHENE	0.000		0	N.D.		
11) IODOMETHANE	3.527	142	2618	N.D.		
12) CARBON DISULFIDE	3.558	76	6237	N.D.		
13) ACRYLONITRILE	0.000		0	N.D.		
14) DICHLOROMETHANE	3.806	84	38	N.D.		
15) TRANS12DICLETHENE	4.074	96	85	N.D.		
16) 11-DICHLOROETHANE	4.643	63	1153	N.D.		
17) VINYL ACETATE	4.632	43	98	N.D.		
18) 2-BUTANONE	5.320	43	2857	N.D.		
19) CIS12DICHLOROETHENE	5.223	96	41	N.D.		
20) 22-DICHLOROPROPANE	5.237	77	25	N.D.		
21) CHLOROFORM	5.644	83	990	N.D.		
22) BROMOCHLOROMETHANE	5.616	49	393	N.D.		
25) TETRAHYDROFURAN	5.633	42	5227	N.D.		
26) 111-TRICHLOROETHANE	0.000		0	N.D.		
27) 11-DICHLOROPROPENE	5.831	75	8236	N.D.		
28) 12-DICHLOROETHANE	0.000		0	N.D.		
29) CARBONTETRACHLORIDE	5.923	117	66	N.D.		
30) BENZENE	6.274	78	464	N.D.		
31) TRICHLOROETHENE	0.000		0	N.D.		
32) 12-DICHLOROPROPANE	0.000		0	N.D.		
33) DIBROMOMETHANE	0.000		0	N.D.		
34) BROMODICLMETHANE	7.953	83	1418	N.D.		
35) 2-CLETHYLVINYLETHER	8.324	63	53	N.D.		
36) EPICHLOROHYDRIN	0.000		0	N.D.		
37) 4METHYL-2-PENTANONE	8.879	43	268	N.D.		
38) CIS13DICLPROPENE	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152513.D
Acq On : 08 Sep 2017 08:47 pm
Operator : NIVA
Sample : 2721712DUP/2727009
Misc : RUN191525
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 12 09:03:57 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration

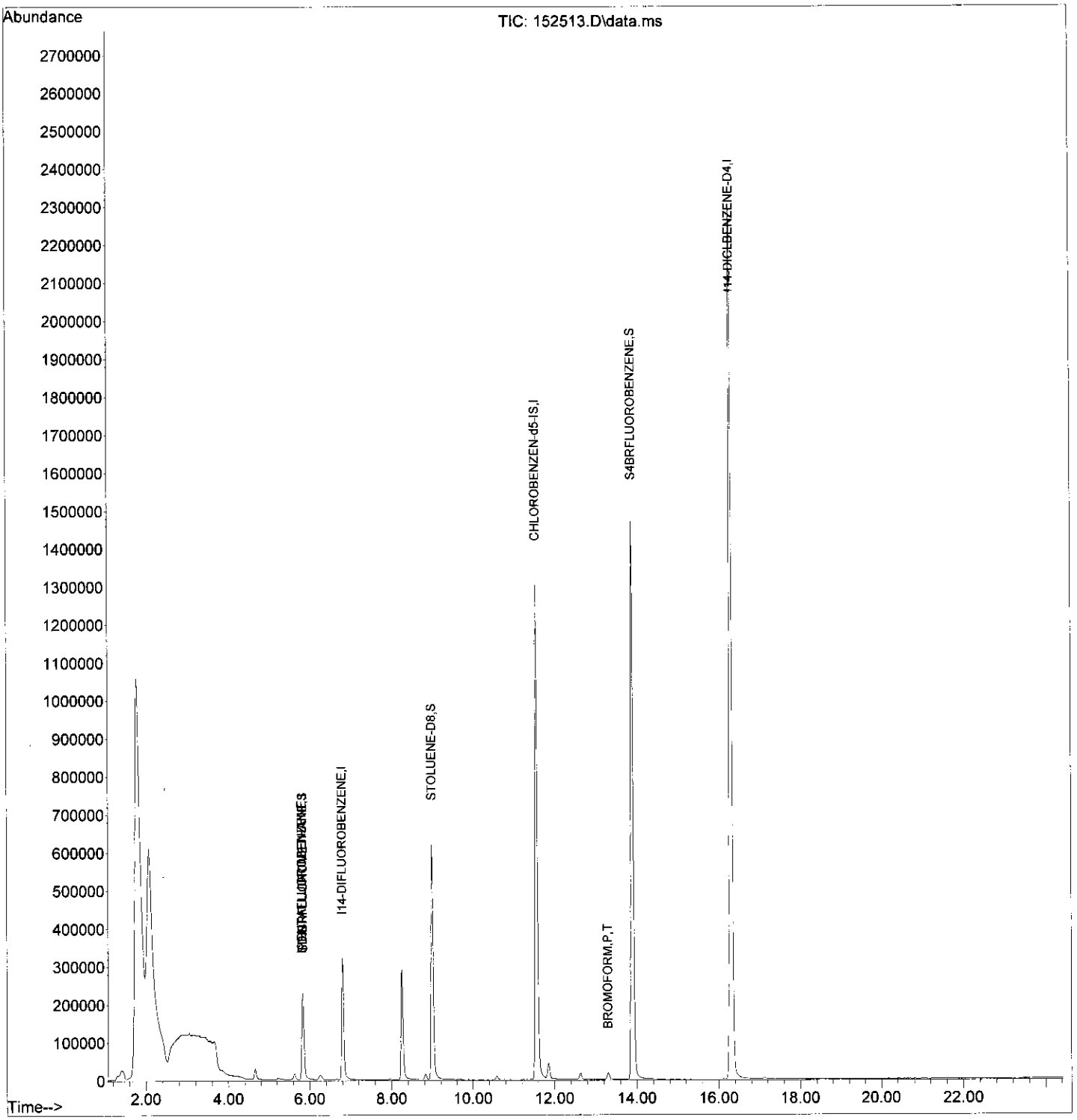
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) TOLUENE	9.093	91	555	N.D.	
41) TRANS13DICLPROPENE	0.000		0	N.D.	
42) 112-TRICHLOROETHANE	0.000		0	N.D.	
43) 2-HEXANONE	10.170	43	26	N.D.	
44) 13-DICHLOROPROPANE	0.000		0	N.D.	
45) DIBRCHLOROMETHANE	10.580	129	11327	N.D.	
46) TETRACHLOROETHENE	0.000		0	N.D.	
47) 12-DIBROMOETHANE	0.000		0	N.D.	
49) CHLOROBENZENE	11.601	112	26	N.D.	
50) 1-CHLOROHEXANE	11.542	91	835	N.D.	
51) 1112-TETRACLETHANE	0.000		0	N.D.	
52) ETHYLBENZENE	11.787	91	549	N.D.	
53) MP-XYLENE	12.013	91	588	N.D.	
54) STYRENE	0.000		0	N.D.	
55) O-XYLENE	12.786	91	26	N.D.	
56) BROMOFORM	13.296	173	20335	1.17 µg/L	96
57) 1122-TETRACLETHANE	0.000		0	N.D.	
58) ISOPROPYL BENZENE	0.000		0	N.D.	
60) 123-TRICLPROPANE	0.000		0	N.D.	
61) TRANS14DICL2BUTENE	0.000		0	N.D.	
62) BROMOBENZENE	14.180	77	25	N.D.	
63) N-PROPYLBENZENE	14.370	91	300	N.D.	
64) 2-CHLOROTOLUENE	0.000		0	N.D.	
65) 4-CHLOROTOLUENE	0.000		0	N.D.	
66) 135TRIMETHYLBENZENE	0.000		0	N.D.	
67) TERT-BUTYLBENZENE	0.000		0	N.D.	
68) 124TRIMETHYLBENZENE	15.549	105	59	N.D.	
69) SEC-BUTYLBENZENE	15.864	105	33	N.D.	
70) 13-DICHLOROBENZENE	0.000		0	N.D.	
72) 4-ISOPROPYLTOLUENE	16.319	119	82	N.D.	
73) 14-DICHLOROBENZENE	16.333	146	83	N.D.	
74) 12-DICHLOROBENZENE	0.000		0	N.D.	
75) N-BUTYLBENZENE	17.089	91	364	N.D.	
76) 12-DIBR-3CLPROPANE	0.000		0	N.D.	
77) 124-TRICLBENZENE	0.000		0	N.D.	
78) NAPHTHALENE	21.238	128	184	N.D.	
79) HEXACHLOROBUTADIENE	0.000		0	N.D.	
80) 123-TRICLBENZENE	0.000		0	N.D.	

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

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152513.D
Acq On : 08 Sep 2017 08:47 pm
Operator : NIVA
Sample : 2721712DUP/2727009
Misc : RUN191525
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 12 09:03:57 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AG03-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152514.D
Acq On : 08 Sep 2017 09:17 pm
Operator : NIVA
Sample : 2725812MS/2727013
Misc : RUN191525
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 12 09:04:41 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IPENTAFLUOROBENZENE	5.828	168	163905m	20.00	µg/L	-0.01
23) I14-DIFLUOROBENZENE	6.807	114	566721	20.00	µg/L	0.00
48) CHLOROBENZEN-d5-IS	11.561	117	1963818	20.00	µg/L	0.00
71) I14-DICLBENZENE-D4	16.305	152	1913649	20.00	µg/L	0.00
System Monitoring Compounds						
24) SDIBRFLUOROMETHANE	5.839	111	157191	20.57	µg/L	-0.01
Spiked Amount 20.000	Range 80 - 120		Recovery = 102.85%			
39) STOLUENE-D8	8.993	98	963069	20.14	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 100.70%			
59) S4BRFLUOROBENZENE	13.893	95	1338598	19.88	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 99.40%			
Target Compounds						Qvalue
2) DICLDIFLUOROMETHANE	1.907	85	15479	28.78	µg/L #	92
3) CHLOROMETHANE	2.013	50	219685m	21.78	µg/L	
4) VINYL CHLORIDE	2.220	62	196554	17.38	µg/L #	1
5) BROMOMETHANE	2.518	94	122367	16.14	µg/L	97
6) CHLOROETHANE	2.626	64	230450m	18.20	µg/L	
7) TRICLFLUOROMETHANE	2.813	101	598154m	22.36	µg/L	
8) ACROLEIN	8.881	56	97745m	27.19	µg/L	
9) ACETONE	3.469	43	589254	89.60	µg/L	97
10) 11-DICHLOROETHENE	4.104	61	615706	23.61	µg/L	99
11) IODOMETHANE	3.513	142	4003505	112.36	µg/L	100
12) CARBON DISULFIDE	3.555	76	8314954	123.84	µg/L	98
13) ACRYLONITRILE	4.171	53	808314	103.37	µg/L	98
14) DICHLOROMETHANE	3.862	84	658987m	16.29	µg/L	
15) TRANS12DICLETHENE	4.104	96	500856	23.71	µg/L	99
16) 11-DICHLOROETHANE	4.576	63	899935	22.46	µg/L	99
17) VINYL ACETATE	4.623	43	5463191	113.15	µg/L	99
18) 2-BUTANONE	5.306	43	1102297	104.95	µg/L	99
19) CIS12DICHLOROETHENE	5.245	96	638062	22.42	µg/L	95
20) 22-DICHLOROPROPANE	5.203	77	697762	25.24	µg/L #	92
21) CHLOROFORM	5.633	83	1341758	27.92	µg/L	99
22) BROMOCHLOROMETHANE	5.549	49	431364	18.66	µg/L	91
25) TETRAHYDROFURAN	5.605	42	985511	22.15	µg/L	97
26) 111-TRICHLOROETHANE	5.797	97	861140	25.97	µg/L #	77
27) 11-DICHLOROPROPENE	5.998	75	745531	25.17	µg/L	97
28) 12-DICHLOROETHANE	6.374	62	763356	21.73	µg/L	99
29) CARBONTETRACHLORIDE	5.981	117	735143	27.74	µg/L	98
30) BENZENE	6.282	78	2249190	23.00	µg/L	98
31) TRICHLOROETHENE	7.147	132	646208	23.51	µg/L	99
32) 12-DICHLOROPROPANE	7.515	63	583981	22.56	µg/L	98
33) DIBROMOMETHANE	7.727	174	467034	22.82	µg/L	97
34) BROMODICLMETHANE	7.958	83	930944	27.13	µg/L	100
35) 2-CLETHYLVINYLETHER	8.566	63	29132m	2.40	µg/L	
36) EPICHLOROHYDRIN	8.566	57	621114	278.00	µg/L	99
37) 4METHYL-2-PENTANONE	8.884	43	2555835	112.99	µg/L	99
38) CIS13DICLPROPENE	8.625	75	822286	20.92	µg/L	96

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152514.D
Acq On : 08 Sep 2017 09:17 pm
Operator : NIVA
Sample : 2725812MS/2727013
Misc : RUN191525
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 12 09:04:41 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration

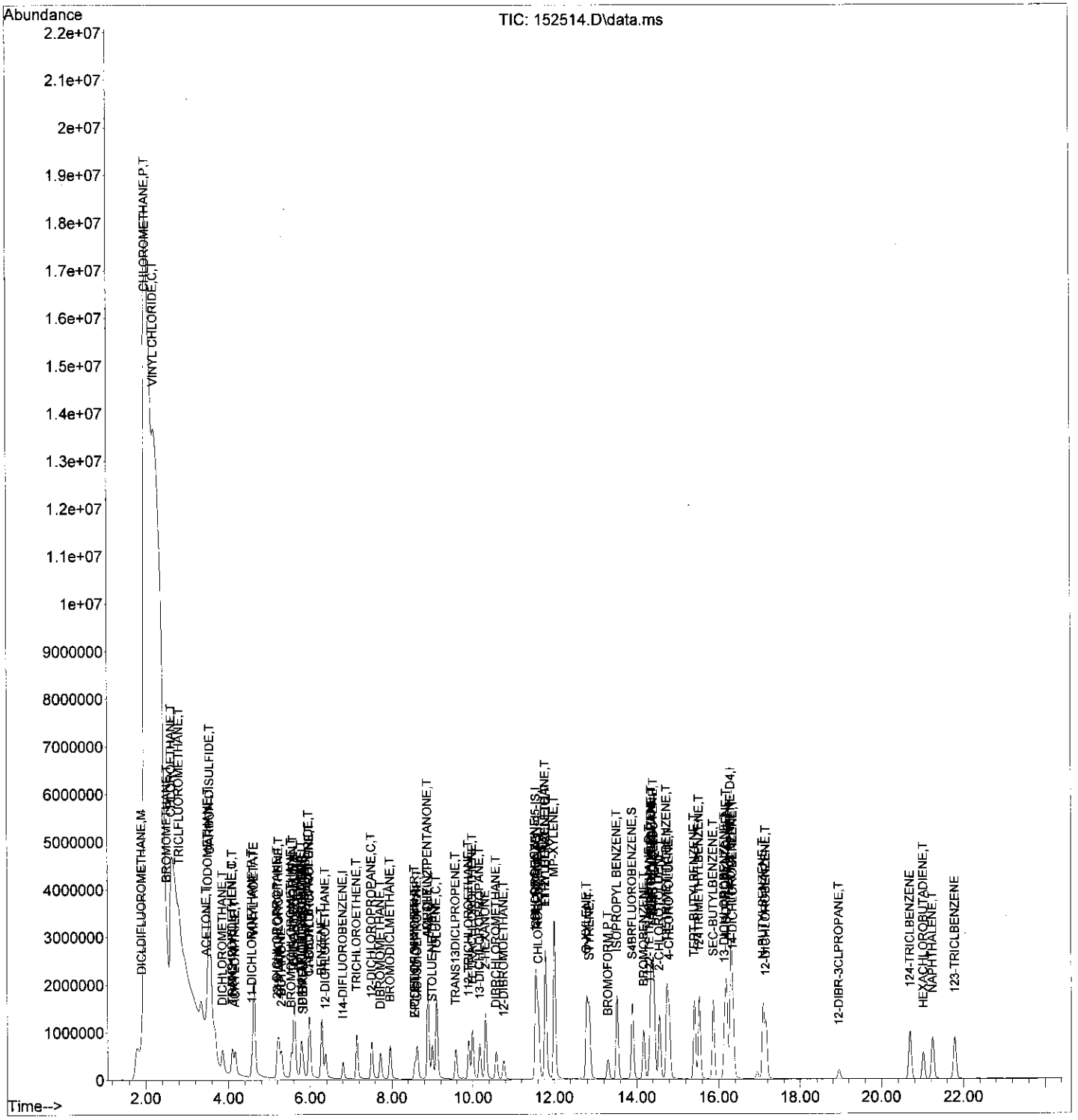
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) TOLUENE	9.099	91	2649777	23.40 µg/L	100
41) TRANS13DICLPROPENE	9.570	75	743471	23.73 µg/L	100
42) 112-TRICHLOROETHANE	9.896	97	580131	21.81 µg/L	96
43) 2-HEXANONE	10.318	43	1745159	113.82 µg/L	100
44) 13-DICHLOROPROPANE	10.175	76	1013743	21.61 µg/L	98
45) DIBRCHLOROMETHANE	10.580	129	688536	25.09 µg/L	99
46) TETRACHLOROETHENE	9.994	166	707654	25.04 µg/L	98
47) 12-DIBROMOETHANE	10.766	107	594839	22.30 µg/L	100
49) CHLOROBENZENE	11.614	112	1742678	21.84 µg/L	97
50) 1-CHLOROHEXANE	11.542	91	835013	24.39 µg/L	96
51) 1112-TETRACLETHANE	11.793	133	606557	23.18 µg/L	97
52) ETHYLBENZENE	11.790	91	2940674	23.21 µg/L	99
53) MP-XYLENE	12.010	91	4503950	45.98 µg/L	99
54) STYRENE	12.855	104	1875020	21.50 µg/L	88
55) O-XYLENE	12.794	91	2328112	22.75 µg/L	92
56) BROMOFORM	13.304	173	475492	25.20 µg/L	97
57) 1122-TETRACLETHANE	14.325	83	808544	22.03 µg/L	99
58) ISOPROPYL BENZENE	13.516	105	2863106	24.40 µg/L	100
60) 123-TRICLPROPANE	14.381	110	253965	21.36 µg/L	97
61) TRANS14DICL2BUTENE	14.425	53	1000686	107.14 µg/L	97
62) BROMOBENZENE	14.177	77	1128613	21.86 µg/L	96
63) N-PROPYLBENZENE	14.369	91	3484186	23.94 µg/L	98
64) 2-CHLOROTOLUENE	14.559	91	1901379	22.42 µg/L	99
65) 4-CHLOROTOLUENE	14.799	91	2281966	22.41 µg/L	99
66) 135TRIMETHYLBENZENE	14.743	105	2486507	23.61 µg/L	99
67) TERT-BUTYLBENZENE	15.410	119	2056191	24.27 µg/L	97
68) 124TRIMETHYLBENZENE	15.532	105	2402245	23.20 µg/L	99
69) SEC-BUTYLBENZENE	15.875	105	2878077	24.58 µg/L	100
70) 13-DICHLOROBENZENE	16.151	146	1437127	21.74 µg/L	99
72) 4-ISOPROPYLTOLUENE	16.199	119	2575747	24.11 µg/L	100
73) 14-DICHLOROBENZENE	16.355	146	1444585	20.76 µg/L	95
74) 12-DICHLOROBENZENE	17.158	146	1405616	21.00 µg/L	99
75) N-BUTYLBENZENE	17.088	91	2176432	24.00 µg/L	99
76) 12-DIBR-3CLPROPANE	18.957	157	169339	28.84 µg/L	99
77) 124-TRICLBENZENE	20.691	180	958090	21.07 µg/L	99
78) NAPHTHALENE	21.244	128	2123676	22.04 µg/L	99
79) HEXACHLOROBUTADIENE	21.018	225	329253	20.99 µg/L	98
80) 123-TRICLBENZENE	21.793	182	840733	20.83 µg/L	99

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

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152514.D
Acq On : 08 Sep 2017 09:17 pm
Operator : NIVA
Sample : 2725812MS/2727013
Misc : RUN191525
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 12 09:04:41 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152515.D
Acq On : 08 Sep 2017 09:46 pm
Operator : NIVA
Sample : LFB/2727011
Misc : RUN191525
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 12 09:07:33 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IPENTAFLUOROBENZENE	5.825	168	153890	20.00	µg/L	#-0.01
23) I14-DIFLUOROBENZENE	6.807	114	544338	20.00	µg/L	0.00
48) CHLOROBENZEN-d5-IS	11.561	117	1899189	20.00	µg/L	0.00
71) I14-DICLBENZENE-D4	16.305	152	1850107	20.00	µg/L	0.00
System Monitoring Compounds						
24) SDIBRFLUOROMETHANE	5.845	111	150683	20.53	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 102.65%			
39) STOLUENE-D8	8.990	98	935381	20.37	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 101.85%			
59) S4BRFLUOROBENZENE	13.890	95	1304752	20.03	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 100.15%			
Target Compounds						Qvalue
2) DICLDIFLUOROMETHANE	1.929	85	11694m	23.16	µg/L	
3) CHLOROMETHANE	2.113	50	205133	21.67	µg/L #	76
4) VINYL CHLORIDE	2.222	62	237255	22.34	µg/L #	1
5) BROMOMETHANE	2.504	94	130853	18.39	µg/L	98
6) CHLOROETHANE	2.604	64	263416m	22.16	µg/L	
7) TRICLFLUOROMETHANE	2.819	101	566215	22.55	µg/L	99
8) ACROLEIN	3.304	56	1550258	459.30	µg/L	99
9) ACETONE	3.469	43	529047	85.68	µg/L	99
10) 11-DICHLOROETHENE	4.102	61	493458	20.16	µg/L	99
11) IODOMETHANE	3.513	142	3485052	104.18	µg/L	100
12) CARBON DISULFIDE	3.558	76	6568915	104.20	µg/L	98
13) ACRYLONITRILE	4.169	53	712565	97.05	µg/L	98
14) DICHLOROMETHANE	3.862	84	699072m	18.40	µg/L	
15) TRANS12DICLETHENE	4.104	96	394639	19.90	µg/L	97
16) 11-DICHLOROETHANE	4.579	63	733585	19.50	µg/L	99
17) VINYL ACETATE	4.623	43	4747402	104.72	µg/L	100
18) 2-BUTANONE	5.301	43	963420	97.69	µg/L	98
19) CIS12DICHLOROETHENE	5.245	96	519000	19.42	µg/L	94
20) 22-DICHLOROPROPANE	5.203	77	509774	19.64	µg/L	96
21) CHLOROFORM	5.635	83	870877	19.30	µg/L	99
22) BROMOCHLOROMETHANE	5.546	49	438231	20.19	µg/L	92
25) TETRAHYDROFURAN	5.605	42	848670	19.86	µg/L	96
26) 111-TRICHLOROETHANE	5.797	97	678435	21.30	µg/L #	77
27) 11-DICHLOROPROPENE	5.998	75	593819	20.87	µg/L	98
28) 12-DICHLOROETHANE	6.374	62	644671	19.10	µg/L	100
29) CARBONTETRACHLORIDE	5.978	117	576725	22.65	µg/L	99
30) BENZENE	6.282	78	1839438	19.59	µg/L	99
31) TRICHLOROETHENE	7.147	132	528001	20.00	µg/L	98
32) 12-DICHLOROPROPANE	7.521	63	485724	19.54	µg/L	99
33) DIBROMOMETHANE	7.727	174	392566	19.97	µg/L	98
34) BROMODICLMETHANE	7.956	83	671261	20.37	µg/L	100
35) 2-CLETHYLVINYLETHER	8.405	63	1125070m	96.51	µg/L	
36) EPICHLOROHYDRIN	8.566	57	1020878	475.72	µg/L	100
37) 4METHYL-2-PENTANONE	8.884	43	2144388	98.70	µg/L	99
38) CIS13DICLPROPENE	8.625	75	766498	20.31	µg/L	97

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152515.D
Acq On : 08 Sep 2017 09:46 pm
Operator : NIVA
Sample : LFB/2727011
Misc : RUN191525
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 12 09:07:33 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration

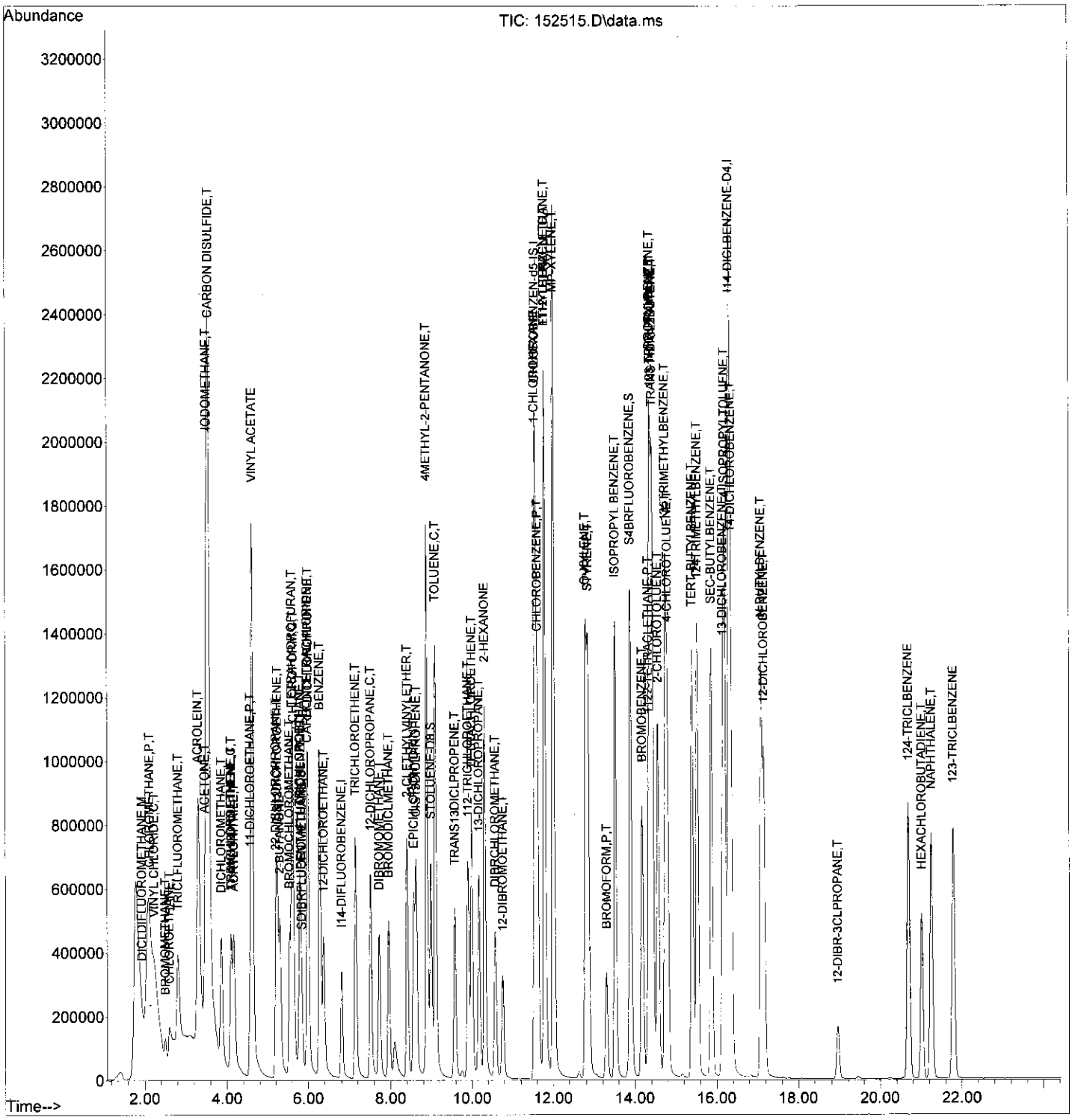
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) TOLUENE	9.096	91	2164179	19.90 µg/L	100
41) TRANS13DICLPROPENE	9.576	75	632126	21.01 µg/L	100
42) 112-TRICHLOROETHANE	9.897	97	494906	19.38 µg/L	98
43) 2-HEXANONE	10.318	43	1476350	100.25 µg/L	99
44) 13-DICHLOROPROPANE	10.175	76	869699	19.30 µg/L	98
45) DIBRCHLOROMETHANE	10.583	129	556809	21.12 µg/L	99
46) TETRACHLOROETHENE	9.994	166	565555	20.84 µg/L	99
47) 12-DIBROMOETHANE	10.767	107	508306	19.84 µg/L	100
49) CHLOROBENZENE	11.614	112	1446088	18.74 µg/L	98
50) 1-CHLOROHEXANE	11.542	91	668984	20.20 µg/L	96
51) 1112-TETRACLETHANE	11.790	133	500547	19.78 µg/L	96
52) ETHYLBENZENE	11.790	91	2397487	19.57 µg/L	99
53) MP-XYLENE	12.013	91	3696295	39.02 µg/L	99
54) STYRENE	12.850	104	1638925	19.43 µg/L	89
55) O-XYLENE	12.791	91	1923027	19.43 µg/L	91
56) BROMOFORM	13.302	173	389651	21.35 µg/L	98
57) 1122-TETRACLETHANE	14.328	83	687930	19.38 µg/L	99
58) ISOPROPYL BENZENE	13.519	105	2325347	20.49 µg/L	99
60) 123-TRICLPROPANE	14.384	110	217182	18.88 µg/L	93
61) TRANS14DICL2BUTENE	14.425	53	898029	99.42 µg/L	97
62) BROMOBENZENE	14.177	77	944927	18.92 µg/L	95
63) N-PROPYLBENZENE	14.367	91	2848373	20.24 µg/L	98
64) 2-CHLOROTOLUENE	14.559	91	1569385	19.14 µg/L	99
65) 4-CHLOROTOLUENE	14.799	91	1885682	19.15 µg/L	97
66) 135TRIMETHYLBENZENE	14.743	105	2050750	20.14 µg/L	99
67) TERT-BUTYLBENZENE	15.410	119	1682863	20.54 µg/L	97
68) 124TRIMETHYLBENZENE	15.530	105	1984049	19.82 µg/L	99
69) SEC-BUTYLBENZENE	15.873	105	2353821	20.79 µg/L	99
70) 13-DICHLOROBENZENE	16.152	146	1202639	18.81 µg/L	99
72) 4-ISOPROPYLTOLUENE	16.199	119	2109773	20.42 µg/L	100
73) 14-DICHLOROBENZENE	16.355	146	1215039	18.06 µg/L	95
74) 12-DICHLOROBENZENE	17.161	146	1194227	18.45 µg/L	99
75) N-BUTYLBENZENE	17.091	91	1779076	20.29 µg/L	97
76) 12-DIBR-3CLPROPANE	18.954	157	140278	24.71 µg/L	99
77) 124-TRICLBENZENE	20.689	180	838309	19.07 µg/L	99
78) NAPHTHALENE	21.249	128	1874815	20.13 µg/L	99
79) HEXACHLOROBUTADIENE	21.012	225	305880	20.17 µg/L	100
80) 123-TRICLBENZENE	21.790	182	746116	19.12 µg/L	98

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

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152515.D
Acq On : 08 Sep 2017 09:46 pm
Operator : NIVA
Sample : LFB/2727011
Misc : RUN191525
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 12 09:07:33 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AG03-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Mon Sep 11 17:01:15 2017
Response via : Initial Calibration

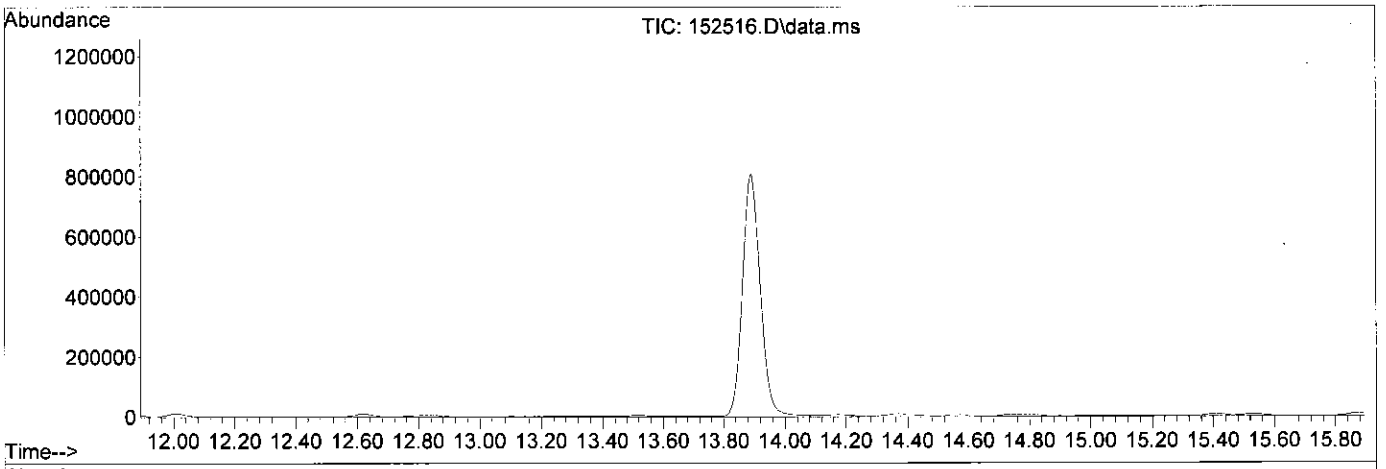


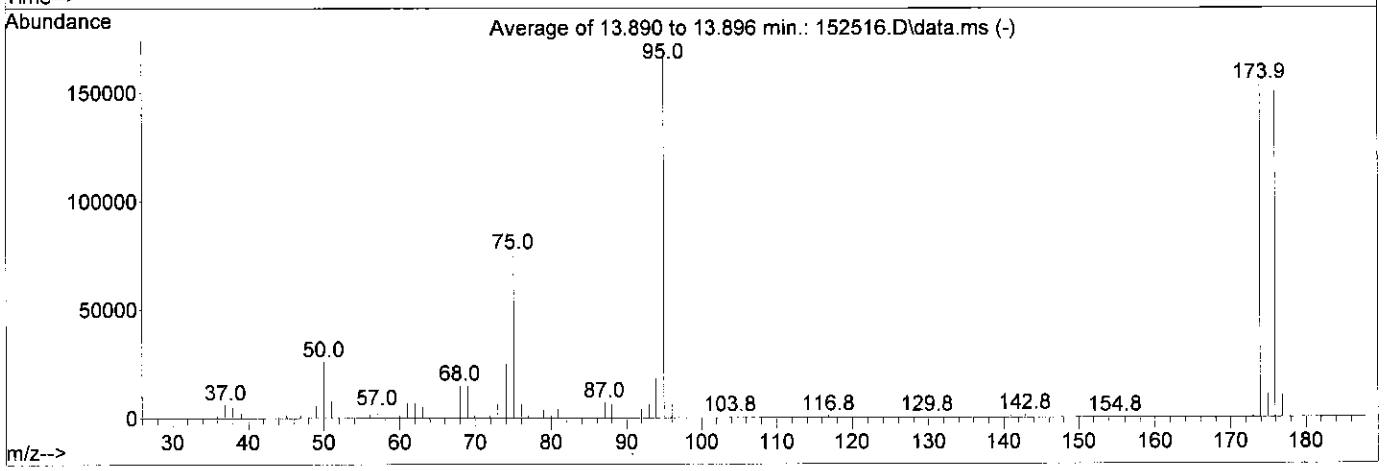
Method VOC

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152516.D
Acq On : 12 Sep 2017 03:01 pm
Operator : NIVA
Sample : BFB
Misc : RUN191525
ALS Vial : 1 Sample Multiplier: 1

Integration File: VOC.P

Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Title : Analysis of VOC'S by 8260B,624
Last Update : Wed Sep 13 08:40:27 2017





AutoFind: Scans 4591, 4592, 4593; Background Corrected with Scan 4555

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.7	26115	PASS
75	95	30	60	45.5	75637	PASS
95	95	100	100	100.0	166272	PASS
96	95	5	9	6.7	11218	PASS
173	174	0.00	2	0.3	531	PASS
174	95	50	150	92.3	153493	PASS
175	174	5	9	7.0	10775	PASS
176	174	95	101	97.8	150187	PASS
177	176	5	9	6.7	10007	PASS

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152517.D
Acq On : 12 Sep 2017 03:35 pm
Operator : NIVA
Sample : LRB/2728418
Misc : RUN191525
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 13 08:42:27 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Wed Sep 13 08:40:27 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IPENTAFLUOROBENZENE	5.806	168	209593	20.00	µg/L	#-0.03
23) I14-DIFLUOROBENZENE	6.787	114	751342	20.00	µg/L	-0.02
48) CHLOROBENZEN-d5-IS	11.553	117	2616780	20.00	µg/L	-0.01
71) I14-DICLBENZENE-D4	16.305	152	2572908	20.00	µg/L	0.00
System Monitoring Compounds						
24) SDIBRFLUOROMETHANE	5.819	111	208545	20.12	µg/L	-0.03
Spiked Amount 20.000	Range 80 - 120		Recovery = 100.60%			
39) STOLUENE-D8	8.979	98	1250680	19.64	µg/L	-0.01
Spiked Amount 20.000	Range 80 - 120		Recovery = 98.20%			
59) S4BRFLUOROBENZENE	13.893	95	1785548	19.94	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 99.70%			
Target Compounds						Qvalue
2) DICLDIFLUOROMETHANE	0.000		0	N.D.		
3) CHLOROMETHANE	2.158	50	237	N.D.		
4) VINYL CHLORIDE	0.000		0	N.D.		
5) BROMOMETHANE	2.515	94	835	N.D.		
6) CHLOROETHANE	2.788	64	658	N.D.		
7) TRICLFLUOROMETHANE	2.791	101	292	N.D.		
8) ACROLEIN	3.287	56	444	N.D.		
9) ACETONE	3.438	43	3769	N.D.		
10) 11-DICHLOROETHENE	4.060	61	562	N.D.		
11) IODOMETHANE	3.494	142	4236	N.D.		
12) CARBON DISULFIDE	0.000		0	N.D.	d	
13) ACRYLONITRILE	4.138	53	84	N.D.		
14) DICHLOROMETHANE	3.828	84	13959	N.D.		
15) TRANS12DICLETHENE	4.102	96	617	N.D.		
16) 11-DICHLOROETHANE	4.060	63	91	N.D.		
17) VINYL ACETATE	4.604	43	143	N.D.		
18) 2-BUTANONE	5.284	43	331	N.D.		
19) CIS12DICHLOROETHENE	5.223	96	211	N.D.		
20) 22-DICHLOROPROPANE	5.184	77	28	N.D.		
21) CHLOROFORM	5.613	83	1467	N.D.		
22) BROMOCHLOROMETHANE	5.524	49	25	N.D.		
25) TETRAHYDROFURAN	5.596	42	202	N.D.		
26) 111-TRICHLOROETHANE	5.775	97	29	N.D.		
27) 11-DICHLOROPROPENE	5.806	75	10050	N.D.		
28) 12-DICHLOROETHANE	6.355	62	29	N.D.		
29) CARBONTETRACHLORIDE	5.962	117	59	N.D.		
30) BENZENE	6.277	78	752	N.D.		
31) TRICHLOROETHENE	7.116	132	293	N.D.		
32) 12-DICHLOROPROPANE	0.000		0	N.D.		
33) DIBROMOMETHANE	7.719	174	84	N.D.		
34) BROMODICLMETHANE	0.000		0	N.D.		
35) 2-CLETHYLVINYLETHER	0.000		0	N.D.		
36) EPICHLOROHYDRIN	0.000		0	N.D.		
37) 4METHYL-2-PENTANONE	8.856	43	649	N.D.		
38) CIS13DICLPROPENE	8.619	75	36	N.D.		

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152517.D
Acq On : 12 Sep 2017 03:35 pm
Operator : NIVA
Sample : LRB/2728418
Misc : RUN191525
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 13 08:42:27 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Wed Sep 13 08:40:27 2017
Response via : Initial Calibration

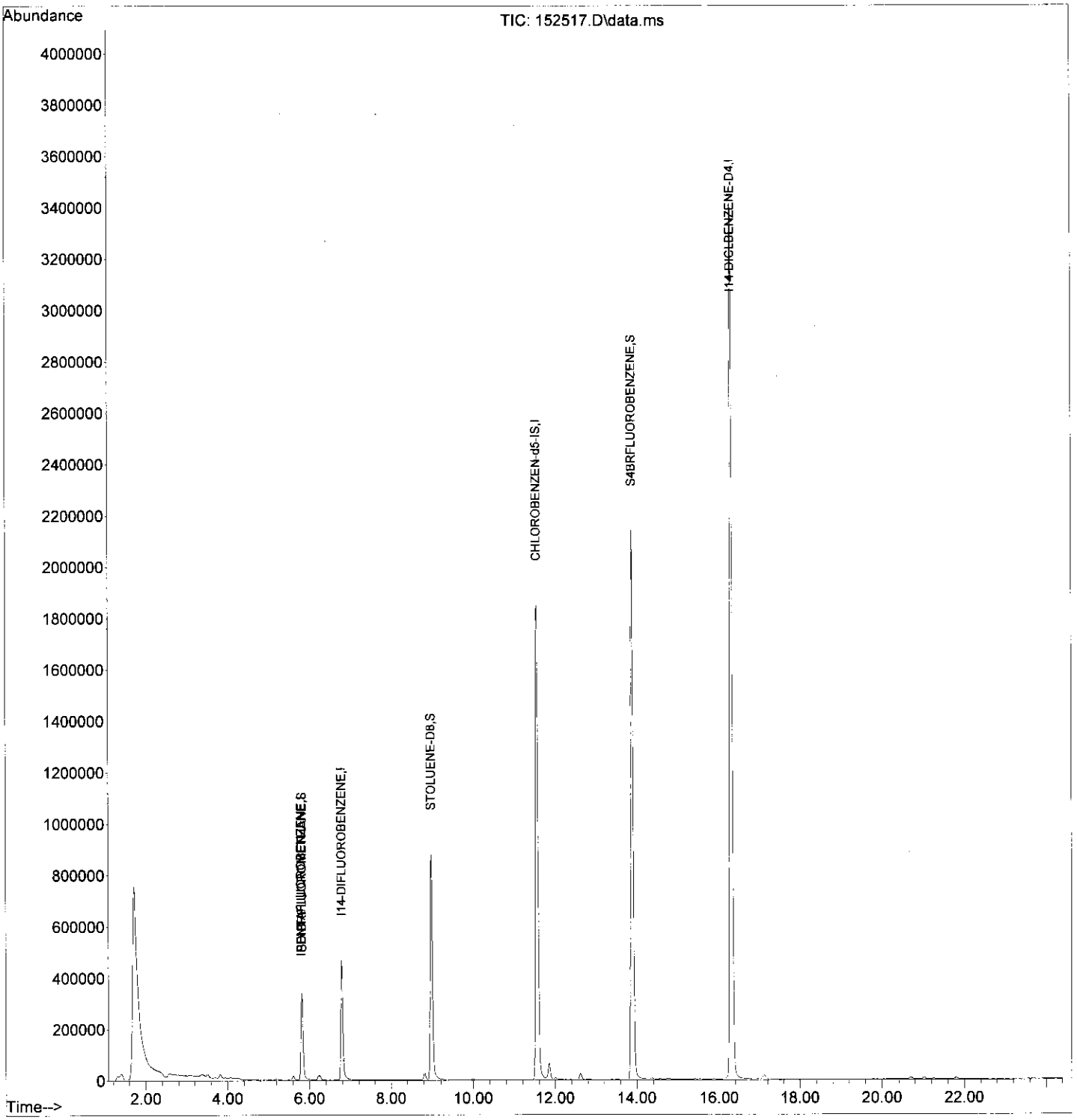
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) TOLUENE	9.096	91	3773	N.D.	
41) TRANS13DICLPROPENE	9.567	75	27	N.D.	
42) 112-TRICHLOROETHANE	9.894	97	28	N.D.	
43) 2-HEXANONE	0.000		0	N.D.	
44) 13-DICHLOROPROPANE	10.167	76	28	N.D.	
45) DIBRCHLOROMETHANE	10.574	129	26	N.D.	
46) TETRACHLOROETHENE	9.958	166	51	N.D.	
47) 12-DIBROMOETHANE	10.758	107	27	N.D.	
49) CHLOROBENZENE	11.603	112	879	N.D.	
50) 1-CHLOROHEXANE	11.519	91	837	N.D.	
51) 1112-TETRACLETHANE	0.000		0	N.D.	
52) ETHYLBENZENE	11.784	91	2280	N.D.	
53) MP-XYLENE	11.996	91	3895	N.D.	
54) STYRENE	12.825	104	358	N.D.	
55) O-XYLENE	12.780	91	838	N.D.	
56) BROMOFORM	13.307	173	58	N.D.	
57) 1122-TETRACLETHANE	0.000		0	N.D.	
58) ISOPROPYL BENZENE	13.499	105	668	N.D.	
60) 123-TRICLPROPANE	0.000		0	N.D.	
61) TRANS14DICL2BUTENE	14.420	53	63	N.D.	
62) BROMOBENZENE	14.163	77	90	N.D.	
63) N-PROPYLBENZENE	14.370	91	5986	N.D.	
64) 2-CHLOROTOLUENE	14.573	91	2017	N.D.	
65) 4-CHLOROTOLUENE	14.805	91	5806	N.D.	
66) 135TRIMETHYLBENZENE	14.718	105	535	N.D.	
67) TERT-BUTYLBENZENE	15.460	119	107	N.D.	
68) 124TRIMETHYLBENZENE	15.532	105	6345	N.D.	
69) SEC-BUTYLBENZENE	15.873	105	9445	N.D.	
70) 13-DICHLOROBENZENE	16.146	146	2559	N.D.	
72) 4-ISOPROPYLTOLUENE	16.213	119	9283	N.D.	
73) 14-DICHLOROBENZENE	16.355	146	4382	N.D.	
74) 12-DICHLOROBENZENE	17.164	146	2019	N.D.	
75) N-BUTYLBENZENE	17.088	91	7802	N.D.	
76) 12-DIBR-3CLPROPANE	0.000		0	N.D.	
77) 124-TRICLBENZENE	20.697	180	8344	N.D.	
78) NAPHTHALENE	21.249	128	5181	N.D.	
79) HEXACHLOROBUTADIENE	21.009	225	5026	N.D.	
80) 123-TRICLBENZENE	21.799	182	6842	N.D.	

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

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152517.D
Acq On : 12 Sep 2017 03:35 pm
Operator : NIVA
Sample : LRB/2728418
Misc : RUN191525
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 13 08:42:27 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Wed Sep 13 08:40:27 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152518.D
Acq On : 12 Sep 2017 04:09 pm
Operator : NIVA
Sample : MDL/2728419
Misc : RUN191525
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 13 08:40:29 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Wed Sep 13 08:40:27 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IPENTAFLUOROBENZENE	5.803	168	203736	20.00	µg/L	-0.04
23) I14-DIFLUOROBENZENE	6.782	114	719190	20.00	µg/L	-0.03
48) CHLOROBENZEN-d5-IS	11.553	117	2535904	20.00	µg/L	-0.01
71) I14-DICLBENZENE-D4	16.308	152	2469588	20.00	µg/L	0.00
System Monitoring Compounds						
24) SDIBRFLUOROMETHANE	5.817	111	201718	20.33	µg/L	-0.03
Spiked Amount 20.000	Range 80 - 120		Recovery = 101.65%			
39) STOLUENE-D8	8.979	98	1233230	20.23	µg/L	-0.01
Spiked Amount 20.000	Range 80 - 120		Recovery = 101.15%			
59) S4BRFLUOROBENZENE	13.890	95	1719145	19.81	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 99.05%			
Target Compounds						Qvalue
2) DICLDIFLUOROMETHANE	1.854	85	32016	0.97	µg/L #	98
3) CHLOROMETHANE	2.055	50	37933m	1.13	µg/L	
4) VINYL CHLORIDE	2.144	62	34225m	1.03	µg/L	
5) BROMOMETHANE	2.451	94	16594m	1.26	µg/L	
6) CHLOROETHANE	2.554	64	17424	1.18	µg/L #	92
7) TRICLFLUOROMETHANE	2.777	101	41430	1.02	µg/L	94
8) ACROLEIN	3.259	56	134286	29.32	µg/L	98
9) ACETONE	3.432	43	47350	6.25	µg/L	99
10) 11-DICHLOROETHENE	4.060	61	32452	1.15	µg/L #	46
11) IODOMETHANE	3.466	142	202224	5.15	µg/L	99
12) CARBON DISULFIDE	3.508	76	436359	5.65	µg/L #	96
13) ACRYLONITRILE	4.135	53	49073	5.69	µg/L #	97
14) DICHLOROMETHANE	3.817	84	47766	1.45	µg/L	96
15) TRANS12DICLETHENE	4.063	96	31927m	1.23	µg/L	
16) 11-DICHLOROETHANE	4.537	63	53289	1.10	µg/L #	97
17) VINYL ACETATE	4.590	43	313319	5.23	µg/L	99
18) 2-BUTANONE	5.284	43	84316	5.74	µg/L	99
19) CIS12DICHLOROETHENE	5.211	96	40295	1.11	µg/L #	94
20) 22-DICHLOROPROPANE	5.170	77	33197	1.02	µg/L #	92
21) CHLOROFORM	5.605	83	67571	1.13	µg/L #	95
22) BROMOCHLOROMETHANE	5.515	49	28297	1.17	µg/L #	38
25) TETRAHYDROFURAN	5.594	42	70940	1.11	µg/L	97
26) 111-TRICHLOROETHANE	5.769	97	44408	1.03	µg/L	89
27) 11-DICHLOROPROPENE	5.970	75	43321	1.08	µg/L	97
28) 12-DICHLOROETHANE	6.346	62	50804	1.15	µg/L #	92
29) CARBONTETRACHLORIDE	5.945	117	34962	0.99	µg/L	96
30) BENZENE	6.257	78	140026	1.11	µg/L	97
31) TRICHLOROETHENE	7.133	132	39336	1.07	µg/L	98
32) 12-DICHLOROPROPANE	7.493	63	35666	1.09	µg/L	97
33) DIBROMOMETHANE	7.707	174	29549	1.06	µg/L #	93
34) BROMODICLMETHANE	7.944	83	44091	1.06	µg/L	95
35) 2-CLETHYLVINYLETHER	8.388	63	76733	5.20	µg/L	97
36) EPICHLOROHYDRIN	8.561	57	86582	27.84	µg/L	97
37) 4METHYL-2-PENTANONE	8.881	43	178879	5.62	µg/L	94
38) CIS13DICLPROPENE	8.611	75	44960	0.97	µg/L	98

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152518.D
Acq On : 12 Sep 2017 04:09 pm
Operator : NIVA
Sample : MDL/2728419
Misc : RUN191525
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 13 08:40:29 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Wed Sep 13 08:40:27 2017
Response via : Initial Calibration

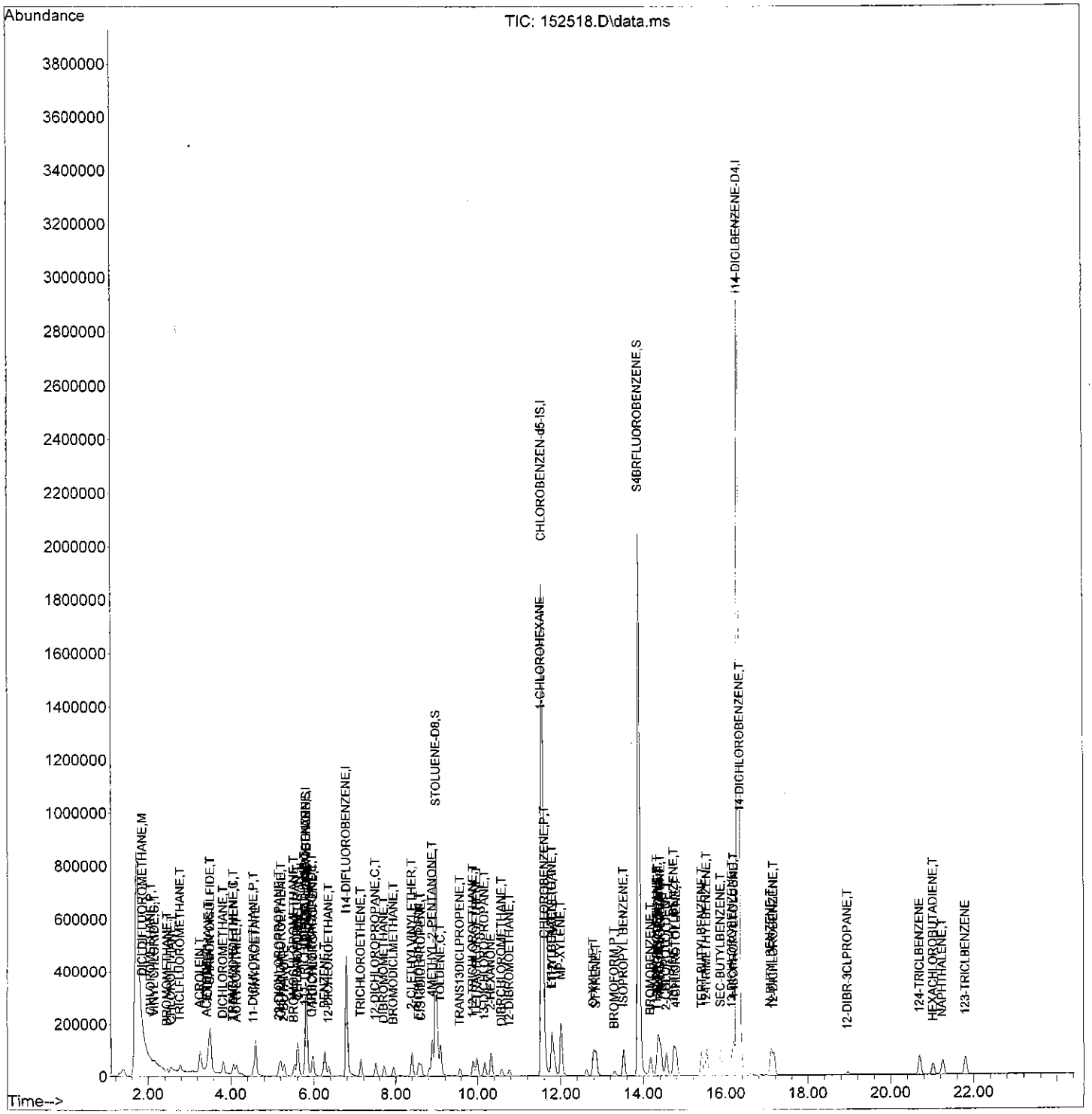
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) TOLUENE	9.088	91	164535	1.11 µg/L	98
41) TRANS13DICLPROPENE	9.567	75	31271	0.89 µg/L	97
42) 112-TRICHLOROETHANE	9.885	97	39820	1.13 µg/L	97
43) 2-HEXANONE	10.318	43	110113	5.20 µg/L	98
44) 13-DICHLOROPROPANE	10.164	76	67898	1.13 µg/L	96
45) DIBRCHLOROMETHANE	10.577	129	32167	0.97 µg/L	98
46) TETRACHLOROETHENE	9.980	166	44347	1.08 µg/L	98
47) 12-DIBROMOETHANE	10.761	107	37799	1.08 µg/L #	7
49) CHLOROBENZENE	11.606	112	113342	1.13 µg/L	87
50) 1-CHLOROHEXANE	11.531	91	48341	1.08 µg/L #	58
51) 1112-TETRACLETHANE	11.793	133	33668	1.05 µg/L #	78
52) ETHYLBENZENE	11.784	91	177445	1.09 µg/L	98
53) MP-XYLENE	12.007	91	269992	2.16 µg/L	99
54) STYRENE	12.852	104	113348	1.04 µg/L	92
55) O-XYLENE	12.788	91	136453	1.06 µg/L	99
56) BROMOFORM	13.299	173	20438m	0.92 µg/L	
57) 1122-TETRACLETHANE	14.328	83	55162	1.11 µg/L	98
58) ISOPROPYL BENZENE	13.516	105	155378	1.01 µg/L	99
60) 123-TRICLPROPANE	14.383	110	18258	1.13 µg/L	87
61) TRANS14DICL2BUTENE	14.422	53	57292	5.03 µg/L #	59
62) BROMOBENZENE	14.174	77	68066	1.07 µg/L	89
63) N-PROPYLBENZENE	14.358	91	197741	1.04 µg/L	98
64) 2-CHLOROTOLUENE	14.565	91	125622	1.13 µg/L	98
65) 4-CHLOROTOLUENE	14.802	91	140871	1.10 µg/L	99
66) 135TRIMETHYLBENZENE	14.740	105	143266	1.04 µg/L	98
67) TERT-BUTYLBENZENE	15.415	119	114625	1.01 µg/L	98
68) 124TRIMETHYLBENZENE	15.530	105	141514	1.05 µg/L	98
69) SEC-BUTYLBENZENE	15.870	105	166348	1.04 µg/L	98
70) 13-DICHLOROBENZENE	16.149	146	96451	1.13 µg/L	99
72) 4-ISOPROPYLTOLUENE	16.196	119	144792	1.03 µg/L	99
73) 14-DICHLOROBENZENE	16.352	146	106021	1.20 µg/L #	4
74) 12-DICHLOROBENZENE	17.155	146	95573	1.13 µg/L	99
75) N-BUTYLBENZENE	17.088	91	127780	1.06 µg/L	96
76) 12-DIBR-3CLPROPANE	18.954	157	7789	0.88 µg/L #	68
77) 124-TRICLBENZENE	20.691	180	70149	1.13 µg/L	98
78) NAPHTHALENE	21.246	128	137955	1.02 µg/L	99
79) HEXACHLOROBUTADIENE	21.023	225	27383	1.15 µg/L	94
80) 123-TRICLBENZENE	21.801	182	65135	1.14 µg/L	95

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

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152518.D
Acq On : 12 Sep 2017 04:09 pm
Operator : NIVA
Sample : MDL/2728419
Misc : RUN191525
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 13 08:40:29 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Wed Sep 13 08:40:27 2017
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152519.D
Acq On : 12 Sep 2017 04:44 pm
Operator : NIVA
Sample : ICV/2728420
Misc : RUN191525
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 13 08:46:47 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Wed Sep 13 08:40:27 2017
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IPENTAFLUOROBENZENE	1.000	1.000	0.0	83	-0.04
2	M	DICLDIFLUOROMETHANE	3.232	3.308	-2.4	85	-0.11
3	P,T	CHLOROMETHANE	3.296	3.047	7.6	81	-0.12
4	C,T	VINYL CHLORIDE	3.265	3.251	0.4	85	-0.10
5	T	BROMOMETHANE	1.294	1.135	12.3	95	-0.10
6	T	CHLOROETHANE	1.449	1.496	-3.2	106	-0.11
7	T	TRICLFLUOROMETHANE	3.980	4.057	-1.9	89	-0.10
8	T	ACROLEIN	0.450	0.417	7.3	86	-0.08
9	T	ACETONE	0.743	0.668	10.1	88	-0.07
10	C,T	11-DICHLOROETHENE	2.766	2.586	6.5	85	-0.07
11	T	IODOMETHANE	3.858	3.886	-0.7	87	-0.08
12	T	CARBON DISULFIDE	7.588	7.169	5.5	85	-0.08
13	T	ACRYLONITRILE	0.847	0.789	6.8	83	-0.06
14	T	DICHLOROMETHANE	3.233	2.714	16.1	91	-0.07
15	T	TRANS12DICLETHENE	2.554	2.253	11.8	85	-0.08
16	P,T	11-DICHLOROETHANE	4.750	4.530	4.6	84	-0.06
17		VINYL ACETATE	5.883	5.735	2.5	83	-0.06
18		2-BUTANONE	1.443	1.354	6.2	86	-0.05
19	T	CIS12DICHLOROETHENE	3.572	3.391	5.1	84	-0.05
20	T	22-DICHLOROPROPANE	3.199	3.301	-3.2	91	-0.06
21	C,T	CHLOROFORM	5.851	5.479	6.4	84	-0.05
22	T	BROMOCHLOROMETHANE	2.384	2.218	7.0	86	-0.05
23	I	I14-DIFLUOROBENZENE	1.000	1.000	0.0	84	-0.03
24	S	SDIBRFLUOROMETHANE	0.276	0.277	-0.4	86	-0.04
25	T	TETRAHYDROFURAN	1.783	1.683	5.6	83	-0.06
26	T	111-TRICHLOROETHANE	1.198	1.183	1.3	85	-0.05
27	T	11-DICHLOROPROPENE	1.117	1.076	3.7	84	-0.04
28	T	12-DICHLOROETHANE	1.227	1.132	7.7	84	-0.04
29	T	CARBONTETRACHLORIDE	0.987	0.994	-0.7	84	-0.05
30	T	BENZENE	3.517	3.323	5.5	84	-0.04
31	T	TRICHLOROETHENE	1.019	0.976	4.2	83	-0.03
32	C,T	12-DICHLOROPROPANE	0.906	0.860	5.1	83	-0.03
33	T	DIBROMOMETHANE	0.777	0.739	4.9	81	-0.03
34	T	BROMODICLMETHANE	1.160	1.114	4.0	82	-0.03
35	T	2-CLETHYLVINYLETHER	0.410	0.399	2.7	83	-0.02
36	T	EPICHLOROHYDRIN	0.086	0.082#	4.7	85	-0.02
37	T	4METHYL-2-PENTANONE	0.885	0.830	6.2	84	-0.02
38	T	CIS13DICLPROPENE	1.284	1.284	0.0	82	-0.02
39	S	STOLUENE-D8	1.695	1.689	0.4	84	-0.02
40	C,T	TOLUENE	4.124	3.887	5.7	83	-0.02
41	T	TRANS13DICLPROPENE	0.974	1.008	-3.5	81	-0.02
42	T	112-TRICHLOROETHANE	0.980	0.909	7.2	83	-0.01
43		2-HEXANONE	0.589	0.575	2.4	83	-0.01
44	T	13-DICHLOROPROPANE	1.677	1.556	7.2	82	-0.02
45	T	DIBRCHLOROMETHANE	0.918	0.908	1.1	80	-0.01

46	T	TETRACHLOROETHENE	1.137	1.093	3.9	85	-0.02
47	T	12-DIBROMOETHANE	0.970	0.917	5.5	82	-0.02
48	I	CHLOROBENZEN-d5-IS	1.000	1.000	0.0	84	-0.01
49	P,T	CHLOROBENZENE	0.794	0.739	6.9	83	0.00
50		1-CHLOROHEXANE	0.352	0.335	4.8	83	0.00
51	T	1112-TETRACLETHANE	0.254	0.244	3.9	82	-0.01
52	C,T	ETHYLBENZENE	1.289	1.229	4.7	83	0.00
53	T	MP-XYLENE	0.986	0.942	4.5	83	0.00
54	T	STYRENE	0.856	0.826	3.5	82	0.00
55	T	O-XYLENE	1.017	0.979	3.7	83	0.00
56	P,T	BROMOFORM	0.175	0.173	1.1	77	0.00
57	P,T	1122-TETRACLETHANE	0.390	0.362	7.2	82	0.00
58	T	ISOPROPYL BENZENE	1.213	1.195	1.5	83	0.00
59	S	S4BRFLUOROBENZENE	0.685	0.681	0.6	82	0.00
60	T	123-TRICLPROPANE	0.127	0.118	7.1	82	0.00
61	T	TRANS14DICL2BUTENE	0.090	0.089#	1.1	84	0.00
62	T	BROMOBENZENE	0.502	0.478	4.8	82	0.00
63	T	N-PROPYLBENZENE	1.495	1.451	2.9	83	0.00
64	T	2-CHLOROTOLUENE	0.874	0.811	7.2	83	0.00
65	T	4-CHLOROTOLUENE	1.014	0.956	5.7	82	0.00
66	T	135TRIMETHYLBENZENE	1.083	1.051	3.0	83	0.00
67	T	TERT-BUTYLBENZENE	0.891	0.873	2.0	82	0.00
68	T	124TRIMETHYLBENZENE	1.062	1.024	3.6	82	0.00
69	T	SEC-BUTYLBENZENE	1.263	1.226	2.9	82	0.00
70	T	13-DICHLOROBENZENE	0.676	0.622	8.0	81	0.00
71	I	I14-DICLBENZENE-D4	1.000	1.000	0.0	82	0.00
72	T	4-ISOPROPYLTOLUENE	1.140	1.122	1.6	82	0.00
73	T	14-DICHLOROBENZENE	0.717	0.644	10.2	81	0.00
74	T	12-DICHLOROBENZENE	0.683	0.632	7.5	81	0.00
75	T	N-BUTYLBENZENE	0.981	0.952	3.0	82	0.00
76	T	12-DIBR-3CLPROPANE	0.072	0.073#	-1.4	75	0.00
77		124-TRICLBENZENE	0.505	0.463	8.3	78	0.00
78	T	NAPHTHALENE	1.100	1.072	2.5	79	0.00
79	T	HEXACHLOROBUTADIENE	0.193	0.175	9.3	78	0.00
80		123-TRICLBENZENE	0.464	0.423	8.8	79	0.00

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

8260VOC-AGO3-LIQ-17.M Wed Sep 13 09:08:30 2017

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152519.D
Acq On : 12 Sep 2017 04:44 pm
Operator : NIVA
Sample : ICV/2728420
Misc : RUN191525
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 13 08:46:47 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Wed Sep 13 08:40:27 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IPENTAFLUOROBENZENE	5.794	168	197494	20.00	µg/L	#-0.04
23) I14-DIFLUOROBENZENE	6.779	114	697849	20.00	µg/L	-0.03
48) CHLOROBENZEN-d5-IS	11.553	117	2472421	20.00	µg/L	-0.01
71) I14-DICLBENZENE-D4	16.302	152	2408843	20.00	µg/L	0.00
System Monitoring Compounds						
24) SDIBRFLUOROMETHANE	5.805	111	193165	20.06	µg/L	-0.04
Spiked Amount 20.000	Range 80 - 120		Recovery = 100.30%			
39) STOLUENE-D8	8.976	98	1178499	19.93	µg/L	-0.02
Spiked Amount 20.000	Range 80 - 120		Recovery = 99.65%			
59) S4BRFLUOROBENZENE	13.893	95	1684264	19.90	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 99.50%			
Target Compounds						Qvalue
2) DICLDIFLUOROMETHANE	1.837	85	653346	20.47	µg/L	98
3) CHLOROMETHANE	2.030	50	601757	18.49	µg/L	99
4) VINYL CHLORIDE	2.140	62	641982	19.91	µg/L	99
5) BROMOMETHANE	2.434	94	224253m	17.55	µg/L	
6) CHLOROETHANE	2.523	64	295540m	20.66	µg/L	
7) TRICLFLUOROMETHANE	2.752	101	801273	20.39	µg/L	99
8) ACROLEIN	3.243	56	2061167	464.25	µg/L	99
9) ACETONE	3.413	43	660066	89.92	µg/L	98
10) 11-DICHLOROETHENE	4.046	61	510643	18.69	µg/L	94
11) IODOMETHANE	3.452	142	3837709	100.75	µg/L	99
12) CARBON DISULFIDE	3.496	76	7079071	94.48	µg/L	98
13) ACRYLONITRILE	4.121	53	779265	93.16	µg/L	97
14) DICHLOROMETHANE	3.809	84	536015m	16.79	µg/L	
15) TRANS12DICLETHENE	4.043	96	444968	17.65	µg/L	95
16) 11-DICHLOROETHANE	4.523	63	894737	19.07	µg/L	99
17) VINYL ACETATE	4.576	43	5662782	97.48	µg/L	98
18) 2-BUTANONE	5.270	43	1337203	93.84	µg/L	98
19) CIS12DICHLOROETHENE	5.203	96	669763	18.99	µg/L	97
20) 22-DICHLOROPROPANE	5.161	77	651994	20.64	µg/L #	91
21) CHLOROFORM	5.596	83	1082037	18.73	µg/L	100
22) BROMOCHLOROMETHANE	5.507	49	437970	18.60	µg/L	88
25) TETRAHYDROFURAN	5.571	42	1174299	18.87	µg/L	97
26) 111-TRICHLOROETHANE	5.758	97	825866	19.76	µg/L #	76
27) 11-DICHLOROPROPENE	5.962	75	750734	19.26	µg/L	97
28) 12-DICHLOROETHANE	6.344	62	790219	18.45	µg/L	100
29) CARBONTETRACHLORIDE	5.942	117	693935	20.15	µg/L	98
30) BENZENE	6.249	78	2319155	18.90	µg/L	99
31) TRICHLOROETHENE	7.124	132	681032	19.15	µg/L	97
32) 12-DICHLOROPROPANE	7.490	63	600249	18.98	µg/L	98
33) DIBROMOMETHANE	7.705	174	515771	19.03	µg/L	95
34) BROMODICLMETHANE	7.933	83	777574	19.20	µg/L	99
35) 2-CLETHYLVINYLETHER	8.382	63	1392000	97.20	µg/L	95
36) EPICHLOROHYDRIN	8.550	57	1429825	473.74	µg/L	99
37) 4METHYL-2-PENTANONE	8.870	43	2896796	93.82	µg/L	99
38) CIS13DICLPROPENE	8.605	75	895837	19.99	µg/L	97

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152519.D
Acq On : 12 Sep 2017 04:44 pm
Operator : NIVA
Sample : ICV/2728420
Misc : RUN191525
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 13 08:46:47 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Wed Sep 13 08:40:27 2017
Response via : Initial Calibration

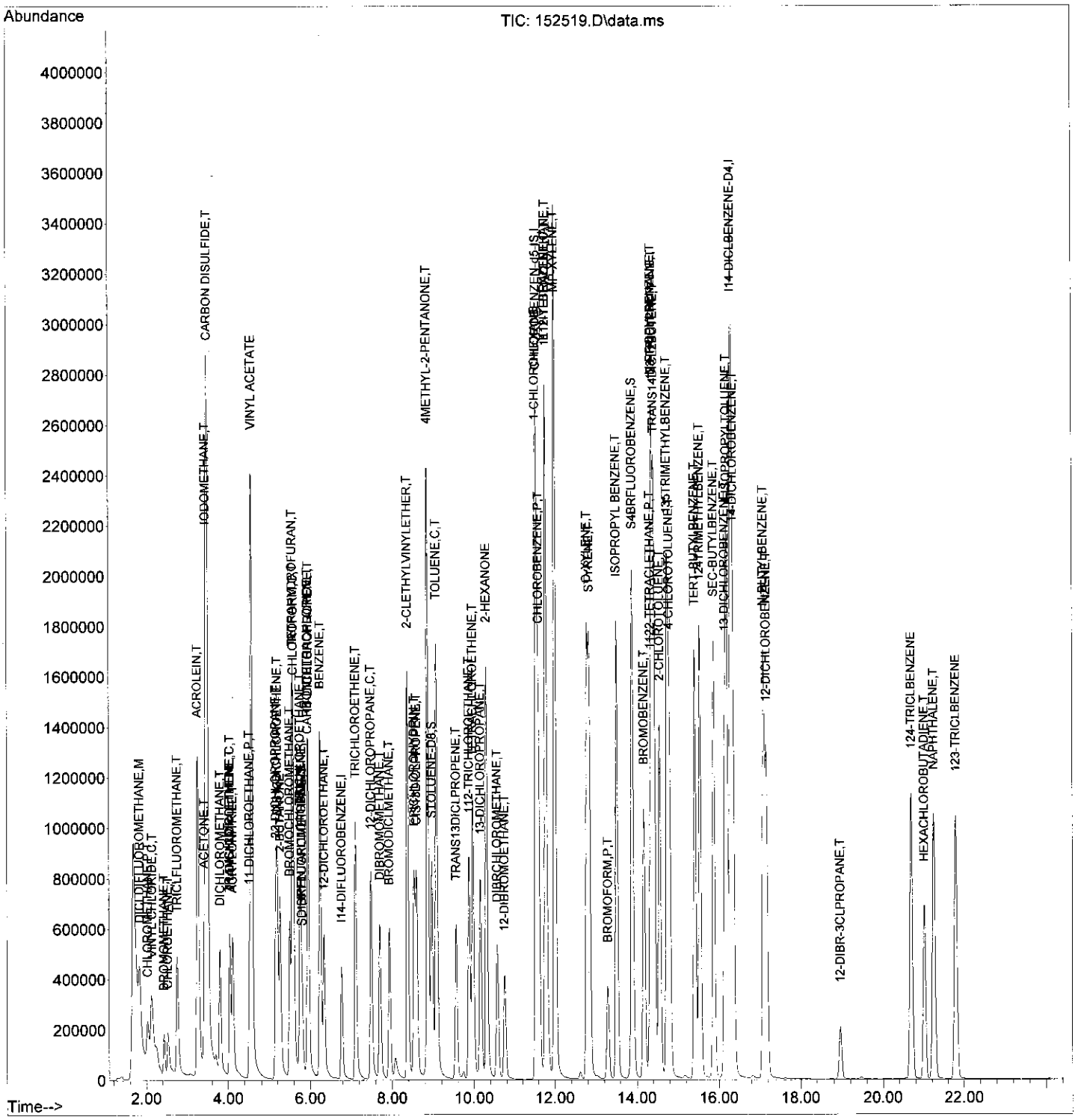
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) TOLUENE	9.079	91	2712404	18.85	µg/L	99
41) TRANS13DICLPROPENE	9.559	75	703749	20.70	µg/L	98
42) 112-TRICHLOROETHANE	9.882	97	634133	18.55	µg/L	98
43) 2-HEXANONE	10.309	43	2006891	97.58	µg/L	98
44) 13-DICHLOROPROPANE	10.161	76	1085548	18.55	µg/L	96
45) DIBRCHLOROMETHANE	10.571	129	633839	19.78	µg/L	99
46) TETRACHLOROETHENE	9.977	166	762924	19.23	µg/L	97
47) 12-DIBROMOETHANE	10.750	107	639653	18.90	µg/L	100
49) CHLOROBENZENE	11.603	112	1827005	18.61	µg/L	97
50) 1-CHLOROHEXANE	11.533	91	828272	19.05	µg/L	95
51) 1112-TETRACLETHANE	11.784	133	603822	19.26	µg/L	97
52) ETHYLBENZENE	11.782	91	3039124	19.07	µg/L	99
53) MP-XYLENE	12.007	91	4656863	38.20	µg/L	98
54) STYRENE	12.844	104	2043168	19.31	µg/L	90
55) O-XYLENE	12.788	91	2420255	19.25	µg/L	99
56) BROMOFORM	13.296	173	428227	19.85	µg/L	97
57) 1122-TETRACLETHANE	14.330	83	895644	18.57	µg/L	100
58) ISOPROPYL BENZENE	13.513	105	2955330	19.72	µg/L	99
60) 123-TRICLPROPANE	14.378	110	290977	18.46	µg/L	93
61) TRANS14DICL2BUTENE	14.425	53	1106197	99.63	µg/L	94
62) BROMOBENZENE	14.171	77	1181103	19.02	µg/L	93
63) N-PROPYLBENZENE	14.361	91	3586323	19.41	µg/L	98
64) 2-CHLOROTOLUENE	14.559	91	2004764	18.55	µg/L	99
65) 4-CHLOROTOLUENE	14.796	91	2364052	18.85	µg/L	98
66) 135TRIMETHYLBENZENE	14.743	105	2598670	19.41	µg/L	99
67) TERT-BUTYLBENZENE	15.407	119	2159285	19.60	µg/L	97
68) 124TRIMETHYLBENZENE	15.530	105	2531742	19.28	µg/L	99
69) SEC-BUTYLBENZENE	15.873	105	3030187	19.41	µg/L	99
70) 13-DICHLOROBENZENE	16.151	146	1537856	18.40	µg/L	99
72) 4-ISOPROPYLTOLUENE	16.199	119	2702636	19.68	µg/L	100
73) 14-DICHLOROBENZENE	16.352	146	1551975	17.96	µg/L	96
74) 12-DICHLOROBENZENE	17.155	146	1522130	18.52	µg/L	99
75) N-BUTYLBENZENE	17.091	91	2293426	19.42	µg/L	98
76) 12-DIBR-3CLPROPANE	18.957	157	176057	20.33	µg/L	97
77) 124-TRICLBENZENE	20.691	180	1114191	18.33	µg/L	98
78) NAPHTHALENE	21.246	128	2581802	19.48	µg/L	100
79) HEXACHLOROBUTADIENE	21.015	225	421751	18.10	µg/L	97
80) 123-TRICLBENZENE	21.796	182	1019846	18.26	µg/L	98

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

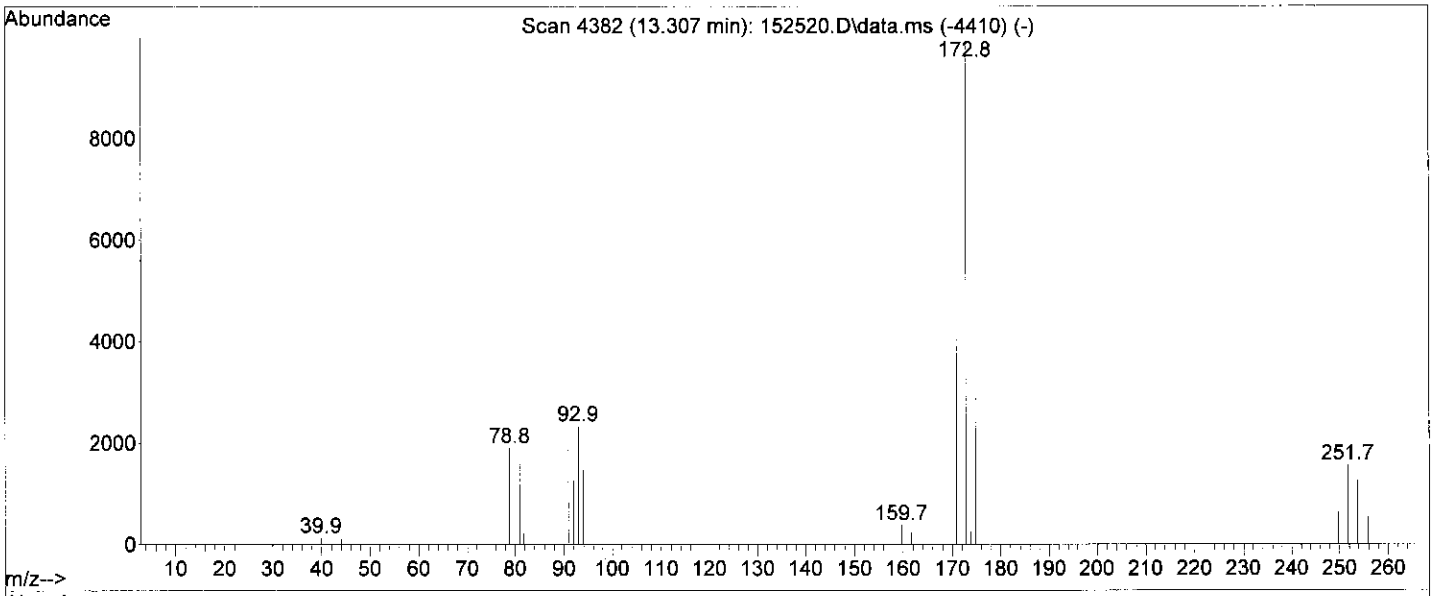
Quantitation Report (QT Reviewed)

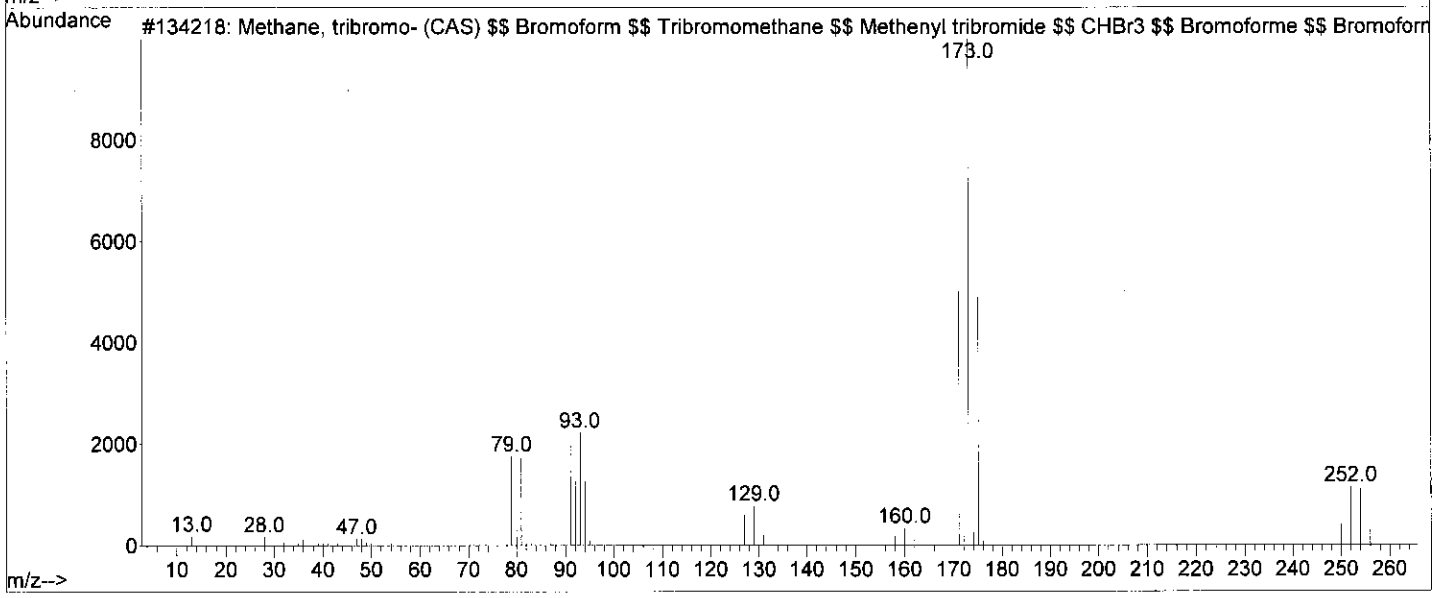
Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152519.D
Acq On : 12 Sep 2017 04:44 pm
Operator : NIVA
Sample : ICV/2728420
Misc : RUN191525
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 13 08:46:47 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Wed Sep 13 08:40:27 2017
Response via : Initial Calibration



Library Searched : D:\MassHunter\Library\WILEY275.L
Quality : 98
ID : Methane, tribromo- (CAS) $$ Bromoform $$ Tribromomethane $$ Methenyl tribromide $$ CHBr3 $$ Bromoforme $$ Bromoformio $$ NCI-C55130 $$ Tribrommethaan $$ Tribrommethan $$ Tribromometan $$ Rcra waste number U225 $$ UN 2515





Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152520.D
Acq On : 12 Sep 2017 05:18 pm
Operator : NIVA
Sample : 2721709
Misc : RUN191525
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 13 08:48:31 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Wed Sep 13 08:40:27 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IPENTAFLUOROBENZENE	5.825	168	220888	20.00	µg/L	#-0.01
23) I14-DIFLUOROBENZENE	6.801	114	786028	20.00	µg/L	-0.01
48) CHLOROBENZEN-d5-IS	11.561	117	2797091	20.00	µg/L	0.00
71) I14-DICLBENZENE-D4	16.305	152	2757229	20.00	µg/L	0.00
System Monitoring Compounds						
24) SDIBRFLUOROMETHANE	5.842	111	216610	19.97	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 99.85%			
39) STOLUENE-D8	8.990	98	1327996	19.94	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 99.70%			
59) S4BRFLUOROBENZENE	13.895	95	1918933	20.04	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 100.20%			

Target Compounds					Qvalue
2) DICLDIFLUOROMETHANE	1.910	85	1146	N.D.	
3) CHLOROMETHANE	2.175	50	559	N.D.	
4) VINYL CHLORIDE	2.236	62	37	N.D.	
5) BROMOMETHANE	2.526	94	1927	N.D.	
6) CHLOROETHANE	2.615	64	1125	N.D.	
7) TRICLFLUOROMETHANE	2.816	101	1204	N.D.	
8) ACROLEIN	0.000		0	N.D.	d
9) ACETONE	0.000		0	N.D.	d
10) 11-DICHLOROETHENE	4.090	61	1633	N.D.	
11) IODOMETHANE	3.519	142	3972	N.D.	
12) CARBON DISULFIDE	0.000		0	N.D.	d
13) ACRYLONITRILE	4.185	53	576	N.D.	
14) DICHLOROMETHANE	3.867	84	8825	N.D.	
15) TRANS12DICLETHENE	4.088	96	1667	N.D.	
16) 11-DICHLOROETHANE	4.654	63	2147	N.D.	
17) VINYL ACETATE	4.620	43	720	N.D.	
18) 2-BUTANONE	5.368	43	450	N.D.	
19) CIS12DICHLOROETHENE	5.242	96	1142	N.D.	
20) 22-DICHLOROPROPANE	5.206	77	36	N.D.	
21) CHLOROFORM	5.633	83	2891	N.D.	
22) BROMOCHLOROMETHANE	5.552	49	365	N.D.	
25) TETRAHYDROFURAN	5.630	42	9997	N.D.	
26) 111-TRICHLOROETHANE	5.783	97	295	N.D.	
27) 11-DICHLOROPROPENE	5.822	75	6631	N.D.	
28) 12-DICHLOROETHANE	6.369	62	314	N.D.	
29) CARBONTETRACHLORIDE	5.973	117	358	N.D.	
30) BENZENE	6.282	78	3526	N.D.	
31) TRICHLOROETHENE	7.144	132	695	N.D.	
32) 12-DICHLOROPROPANE	7.504	63	121	N.D.	
33) DIBROMOMETHANE	7.724	174	132	N.D.	
34) BROMODICLMETHANE	7.947	83	667	N.D.	
35) 2-CLETHYLVINYLETHER	8.402	63	31	N.D.	
36) EPICHLOROHYDRIN	8.552	57	190	N.D.	
37) 4METHYL-2-PENTANONE	8.870	43	427	N.D.	
38) CIS13DICLPROPENE	8.616	75	305	N.D.	

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152520.D
Acq On : 12 Sep 2017 05:18 pm
Operator : NIVA
Sample : 2721709
Misc : RUN191525
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 13 08:48:31 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Wed Sep 13 08:40:27 2017
Response via : Initial Calibration

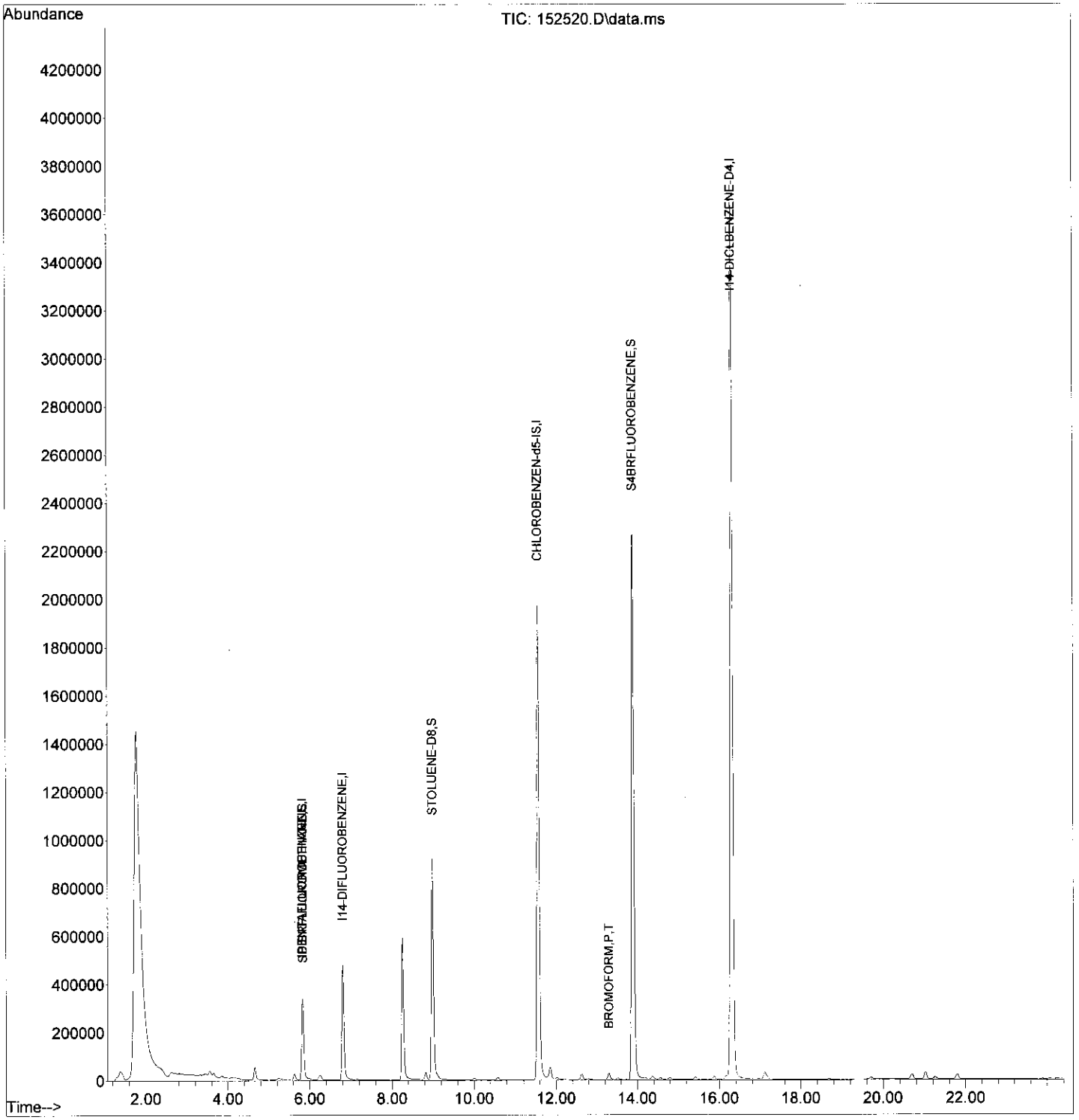
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40)	TOLUENE	9.102	91	3899	N.D.	
41)	TRANS13DICLPROPENE	9.565	75	96	N.D.	
42)	112-TRICHLOROETHANE	9.880	97	62	N.D.	
43)	2-HEXANONE	10.301	43	63	N.D.	
44)	13-DICHLOROPROPANE	10.159	76	207	N.D.	
45)	DIBRCHLOROMETHANE	10.580	129	13716	N.D.	
46)	TETRACHLOROETHENE	9.969	166	191	N.D.	
47)	12-DIBROMOETHANE	10.753	107	35	N.D.	
49)	CHLOROBENZENE	11.625	112	940	N.D.	
50)	1-CHLOROHEXANE	11.545	91	5690	N.D.	
51)	1112-TETRACLETHANE	11.796	133	35	N.D.	
52)	ETHYLBENZENE	11.782	91	11881	N.D.	
53)	MP-XYLENE	12.010	91	10122	N.D.	
54)	STYRENE	12.850	104	746	N.D.	
55)	O-XYLENE	12.791	91	6543	N.D.	
56)	BROMOFORM	13.307	173	32470	1.33 µg/L	99
57)	1122-TETRACLETHANE	14.325	83	369	N.D.	
58)	ISOPROPYL BENZENE	13.519	105	7295	N.D.	
60)	123-TRICLPROPANE	14.397	110	26	N.D.	
61)	TRANS14DICL2BUTENE	14.422	53	350	N.D.	
62)	BROMOBENZENE	14.180	77	708	N.D.	
63)	N-PROPYLBENZENE	14.370	91	23662	N.D.	
64)	2-CHLOROTOLUENE	14.551	91	3361	N.D.	
65)	4-CHLOROTOLUENE	14.799	91	14846	N.D.	
66)	135TRIMETHYLBENZENE	14.760	105	880	N.D.	
67)	TERT-BUTYLBENZENE	15.326	119	220	N.D.	
68)	124TRIMETHYLBENZENE	15.544	105	1440	N.D.	
69)	SEC-BUTYLBENZENE	15.873	105	25311	N.D.	
70)	13-DICHLOROBENZENE	16.157	146	14978	N.D.	
72)	4-ISOPROPYLTOLUENE	16.196	119	17745	N.D.	
73)	14-DICHLOROBENZENE	16.355	146	16508	N.D.	
74)	12-DICHLOROBENZENE	17.167	146	6200	N.D.	
75)	N-BUTYLBENZENE	17.097	91	30462	N.D.	
76)	12-DIBR-3CLPROPANE	18.960	157	92	N.D.	
77)	124-TRICLBENZENE	20.694	180	23493	N.D.	
78)	NAPHTHALENE	21.246	128	18520	N.D.	
79)	HEXACHLOROBUTADIENE	0.000		0	N.D. d	
80)	123-TRICLBENZENE	21.804	182	21872	N.D.	

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

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152520.D
Acq On : 12 Sep 2017 05:18 pm
Operator : NIVA
Sample : 2721709
Misc : RUN191525
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 13 08:48:31 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Wed Sep 13 08:40:27 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152521.D
Acq On : 12 Sep 2017 05:51 pm
Operator : NIVA
Sample : 2721709MS/2721711
Misc : RUN191525
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 13 08:53:13 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Wed Sep 13 08:40:27 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IPENTAFLUOROBENZENE	5.822	168	242348	20.00	µg/L	#-0.02
23) I14-DIFLUOROBENZENE	6.801	114	843672	20.00	µg/L	-0.01
48) CHLOROBENZEN-d5-IS	11.562	117	3044391	20.00	µg/L	0.00
71) I14-DICLBENZENE-D4	16.305	152	3055592	20.00	µg/L	0.00
System Monitoring Compounds						
24) SDIBRFLUOROMETHANE	5.836	111	234426	20.14	µg/L	-0.01
Spiked Amount 20.000	Range 80 - 120		Recovery = 100.70%			
39) STOLUENE-D8	8.988	98	1449801	20.28	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 101.40%			
59) S4BRFLUOROBENZENE	13.896	95	2105810	20.21	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 101.05%			
Target Compounds						Qvalue
2) DICLDIFLUOROMETHANE	1.915	85	892888	22.80	µg/L	99
3) CHLOROMETHANE	2.108	50	1012150	25.34	µg/L	99
4) VINYL CHLORIDE	2.216	62	854041	21.59	µg/L	100
5) BROMOMETHANE	2.498	94	252522m	16.10	µg/L	
6) CHLOROETHANE	2.601	64	316149	18.01	µg/L	98
7) TRICLFLUOROMETHANE	2.808	101	1077390	22.34	µg/L	99
8) ACROLEIN	3.296	56	1754463	322.03	µg/L	100
9) ACETONE	3.463	43	708448	78.65	µg/L	99
10) 11-DICHLOROETHENE	4.091	61	574700	17.15	µg/L	93
11) IODOMETHANE	3.530	142	152625	3.27	µg/L	98
12) CARBON DISULFIDE	3.550	76	8245463	89.68	µg/L	98
13) ACRYLONITRILE	4.163	53	864881	84.26	µg/L	98
14) DICHLOROMETHANE	3.856	84	556002	14.19	µg/L	97
15) TRANS12DICLETHENE	4.091	96	504338	16.30	µg/L	94
16) 11-DICHLOROETHANE	4.567	63	1040171	18.07	µg/L	99
17) VINYL ACETATE	3.463	43	1086388m	15.24	µg/L	
18) 2-BUTANONE	5.301	43	1487441	85.07	µg/L	98
19) CIS12DICHLOROETHENE	5.240	96	764014	17.65	µg/L	97
20) 22-DICHLOROPROPANE	5.195	77	717067	18.50	µg/L	93
21) CHLOROFORM	5.630	83	1244109	17.55	µg/L	99
22) BROMOCHLOROMETHANE	5.544	49	604845	20.94	µg/L	96
25) TETRAHYDROFURAN	5.605	42	1315177	17.48	µg/L	98
26) 111-TRICHLOROETHANE	5.789	97	948678	18.77	µg/L #	76
27) 11-DICHLOROPROPENE	5.990	75	849203	18.03	µg/L	98
28) 12-DICHLOROETHANE	6.369	62	893553	17.26	µg/L	99
29) CARBONTETRACHLORIDE	5.973	117	809093	19.43	µg/L	99
30) BENZENE	6.277	78	2675132	18.03	µg/L	98
31) TRICHLOROETHENE	7.144	132	786010	18.28	µg/L	97
32) 12-DICHLOROPROPANE	7.512	63	680065	17.79	µg/L	98
33) DIBROMOMETHANE	7.721	174	582864	17.79	µg/L	95
34) BROMODICLMETHANE	7.953	83	896618	18.32	µg/L	99
35) 2-CLETHYLVINYLETHER	8.564	63	65673m	3.79	µg/L	
36) EPICHLOROHYDRIN	8.561	57	1579330	432.83	µg/L	99
37) 4METHYL-2-PENTANONE	8.884	43	3202328	85.79	µg/L	99
38) CIS13DICLPROPENE	8.625	75	1010215	18.65	µg/L	95

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152521.D
Acq On : 12 Sep 2017 05:51 pm
Operator : NIVA
Sample : 2721709MS/2721711
Misc : RUN191525
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 13 08:53:13 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Wed Sep 13 08:40:27 2017
Response via : Initial Calibration

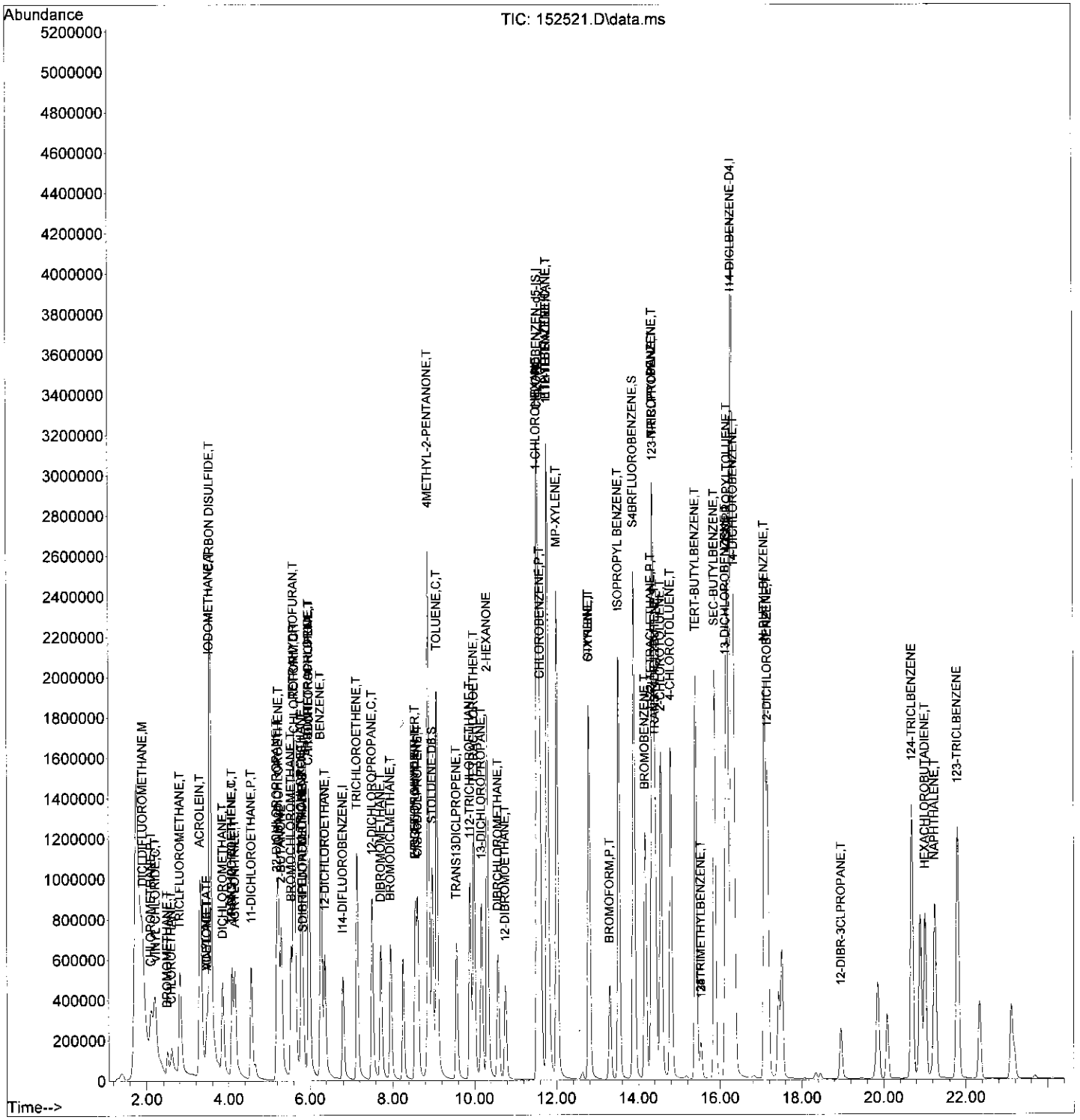
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) TOLUENE	9.099	91	3111357	17.88 µg/L	98
41) TRANS13DICLPROPENE	9.573	75	794744	19.34 µg/L	97
42) 112-TRICHLOROETHANE	9.897	97	718689	17.39 µg/L	99
43) 2-HEXANONE	10.318	43	2232777	89.80 µg/L	98
44) 13-DICHLOROPROPANE	10.173	76	1223476	17.29 µg/L	96
45) DIBRCHLOROMETHANE	10.580	129	745230	19.24 µg/L	100
46) TETRACHLOROETHENE	9.991	166	878190	18.31 µg/L	97
47) 12-DIBROMOETHANE	10.761	107	723125	17.67 µg/L	100
49) CHLOROBENZENE	11.617	112	2106251	17.42 µg/L	98
50) 1-CHLOROHEXANE	11.539	91	966050	18.04 µg/L	96
51) 1112-TETRACLETHANE	11.790	133	691261	17.90 µg/L	97
52) ETHYLBENZENE	11.787	91	3490945	17.79 µg/L	99
53) MP-XYLENE	12.016	91	3270891	21.79 µg/L	98
54) STYRENE	12.791	104	65986m	0.51 µg/L	
55) O-XYLENE	12.791	91	2673061	17.26 µg/L	99
56) BROMOFORM	13.299	173	541070	20.37 µg/L	98
57) 1122-TETRACLETHANE	14.331	83	1021895	17.20 µg/L	100
58) ISOPROPYL BENZENE	13.519	105	3425552	18.56 µg/L	99
60) 123-TRICLPROPANE	14.378	110	329495	16.98 µg/L	92
61) TRANS14DICL2BUTENE	14.425	53	586054	42.87 µg/L	92
62) BROMOBENZENE	14.174	77	1364090	17.84 µg/L	93
63) N-PROPYLBENZENE	14.367	91	4019101	17.66 µg/L	99
64) 2-CHLOROTOLUENE	14.559	91	2349190	17.65 µg/L	99
65) 4-CHLOROTOLUENE	14.799	91	2473803	16.02 µg/L	97
66) 135TRIMETHYLBENZENE	15.533	105	219655m	1.33 µg/L	
67) TERT-BUTYLBENZENE	15.413	119	2553272	18.82 µg/L	97
68) 124TRIMETHYLBENZENE	15.533	105	210352	1.30 µg/L	97
69) SEC-BUTYLBENZENE	15.876	105	3550437	18.47 µg/L	99
70) 13-DICHLOROBENZENE	16.154	146	1806344	17.55 µg/L	99
72) 4-ISOPROPYLTOLUENE	16.202	119	3073446	17.64 µg/L	100
73) 14-DICHLOROBENZENE	16.358	146	1814008	16.55 µg/L	95
74) 12-DICHLOROBENZENE	17.164	146	1781786	17.09 µg/L	99
75) N-BUTYLBENZENE	17.091	91	2710485	18.09 µg/L	98
76) 12-DIBR-3CLPROPANE	18.963	157	214499	19.52 µg/L	97
77) 124-TRICLBENZENE	20.694	180	1336413	17.33 µg/L	97
78) NAPHTHALENE	21.244	128	2147372	12.77 µg/L	100
79) HEXACHLOROBUTADIENE	21.015	225	501517	16.97 µg/L	98
80) 123-TRICLBENZENE	21.793	182	1207255	17.04 µg/L	99

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

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152521.D
Acq On : 12 Sep 2017 05:51 pm
Operator : NIVA
Sample : 2721709MS/2721711
Misc : RUN191525
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 13 08:53:13 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Wed Sep 13 08:40:27 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152522.D
Acq On : 12 Sep 2017 06:24 pm
Operator : NIVA
Sample : 2721709MSD/2721712
Misc : RUN191525
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 13 08:59:29 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Wed Sep 13 08:40:27 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IPENTAFLUOROBENZENE	5.822	168	222097	20.00	µg/L	#-0.02
23) I14-DIFLUOROBENZENE	6.798	114	776558	20.00	µg/L	-0.01
48) CHLOROBENZEN-d5-IS	11.558	117	2771293	20.00	µg/L	0.00
71) I14-DICLBENZENE-D4	16.308	152	2784284	20.00	µg/L	0.00
System Monitoring Compounds						
24) SDIBRFLUOROMETHANE	5.836	111	212869	19.87	µg/L	-0.01
Spiked Amount 20.000	Range 80 - 120		Recovery = 99.35%			
39) STOLUENE-D8	8.987	98	1326462	20.16	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 100.80%			
59) S4BRFLUOROBENZENE	13.895	95	1923335	20.28	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 101.40%			
Target Compounds						Qvalue
2) DICLDIFLUOROMETHANE	1.915	85	872666	24.31	µg/L	99
3) CHLOROMETHANE	2.116	50	927671	25.34	µg/L	99
4) VINYL CHLORIDE	2.215	62	880109	24.27	µg/L	99
5) BROMOMETHANE	2.501	94	218951	15.24	µg/L	96
6) CHLOROETHANE	2.598	64	352770	21.93	µg/L	99
7) TRICLFLUOROMETHANE	2.813	101	1054620	23.86	µg/L	99
8) ACROLEIN	3.298	56	1847428m	370.02	µg/L	
9) ACETONE	3.466	43	722370	87.51	µg/L	98
10) 11-DICHLOROETHENE	4.090	61	610133	19.86	µg/L	93
11) IODOMETHANE	3.510	142	1187600	27.72	µg/L	98
12) CARBON DISULFIDE	3.549	76	8666609	102.85	µg/L	98
13) ACRYLONITRILE	4.166	53	918161	97.60	µg/L	98
14) DICHLOROMETHANE	3.853	84	585672	16.31	µg/L	97
15) TRANS12DICLETHENE	4.090	96	539694	19.03	µg/L	94
16) 11-DICHLOROETHANE	4.567	63	1104300	20.93	µg/L	99
17) VINYL ACETATE	4.615	43	1366844m	20.92	µg/L	
18) 2-BUTANONE	5.303	43	1416109m	88.37	µg/L	
19) CIS12DICHLOROETHENE	5.239	96	816656	20.59	µg/L	98
20) 22-DICHLOROPROPANE	5.195	77	767778	21.61	µg/L #	92
21) CHLOROFORM	5.627	83	1327386	20.43	µg/L	100
22) BROMOCHLOROMETHANE	5.543	49	537830	20.32	µg/L	89
25) TETRAHYDROFURAN	5.605	42	1380247	19.93	µg/L	97
26) 111-TRICHLOROETHANE	5.791	97	1011257	21.74	µg/L #	77
27) 11-DICHLOROPROPENE	5.992	75	921610	21.25	µg/L	98
28) 12-DICHLOROETHANE	6.372	62	940122	19.73	µg/L	100
29) CARBONTETRACHLORIDE	5.973	117	859776	22.43	µg/L	99
30) BENZENE	6.277	78	2840704	20.80	µg/L	98
31) TRICHLOROETHENE	7.147	132	837290	21.16	µg/L	97
32) 12-DICHLOROPROPANE	7.512	63	726638	20.65	µg/L	98
33) DIBROMOMETHANE	7.724	174	624621	20.71	µg/L	94
34) BROMODICLMETHANE	7.958	83	965823	21.43	µg/L	99
35) 2-CLETHYLVINYLETHER	8.563	63	65675m	4.12	µg/L	
36) EPICHLOROHYDRIN	8.566	57	1653791	492.41	µg/L	100
37) 4METHYL-2-PENTANONE	8.884	43	3391775	98.72	µg/L	99
38) CIS13DICLPROPENE	8.622	75	1080422	21.67	µg/L	96

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152522.D
Acq On : 12 Sep 2017 06:24 pm
Operator : NIVA
Sample : 2721709MSD/2721712
Misc : RUN191525
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 13 08:59:29 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Wed Sep 13 08:40:27 2017
Response via : Initial Calibration

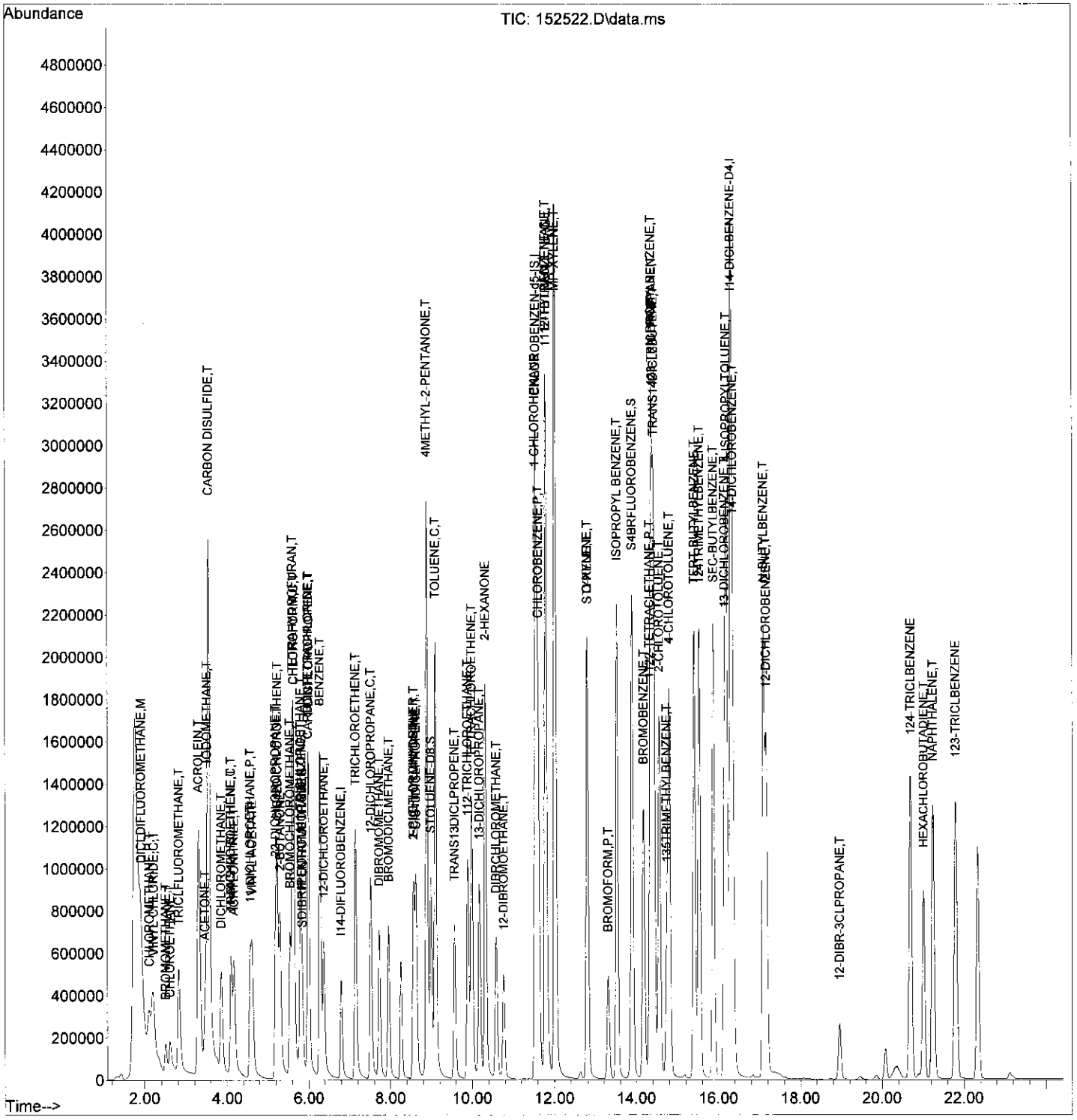
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) TOLUENE	9.099	91	3327082	20.78 µg/L	99
41) TRANS13DICLPROPENE	9.573	75	854668	22.59 µg/L	97
42) 112-TRICHLOROETHANE	9.894	97	757930	19.93 µg/L	98
43) 2-HEXANONE	10.320	43	2337871	102.15 µg/L	98
44) 13-DICHLOROPROPANE	10.172	76	1301341	19.98 µg/L	96
45) DIBRCHLOROMETHANE	10.582	129	808221	22.67 µg/L	100
46) TETRACHLOROETHENE	9.991	166	921819	20.88 µg/L	97
47) 12-DIBROMOETHANE	10.764	107	768425	20.40 µg/L	100
49) CHLOROBENZENE	11.611	112	2247191	20.42 µg/L	97
50) 1-CHLOROHEXANE	11.539	91	1035919	21.25 µg/L	97
51) 1112-TETRACLETHANE	11.795	133	740182	21.06 µg/L	98
52) ETHYLBENZENE	11.790	91	3730837	20.89 µg/L	99
53) MP-XYLENE	12.010	91	5697666	41.70 µg/L	98
54) STYRENE	12.799	104	74183	0.63 µg/L #	1
55) O-XYLENE	12.794	91	2979848	21.14 µg/L	99
56) BROMOFORM	13.301	173	575901	23.81 µg/L	99
57) 1122-TETRACLETHANE	14.330	83	1073884	19.86 µg/L	99
58) ISOPROPYL BENZENE	13.519	105	3681321	21.91 µg/L	99
60) 123-TRICLPROPANE	14.386	110	345784	19.58 µg/L	94
61) TRANS14DICL2BUTENE	14.428	53	1288925	103.57 µg/L	96
62) BROMOBENZENE	14.177	77	1454162	20.89 µg/L	93
63) N-PROPYLBENZENE	14.369	91	4452460	21.49 µg/L	99
64) 2-CHLOROTOLUENE	14.562	91	2474018	20.42 µg/L	98
65) 4-CHLOROTOLUENE	14.799	91	2701781	19.22 µg/L	98
66) 135TRIMETHYLBENZENE	14.743	105	907218	6.04 µg/L	99
67) TERT-BUTYLBENZENE	15.412	119	2721810	22.04 µg/L	96
68) 124TRIMETHYLBENZENE	15.535	105	3046106	20.69 µg/L	99
69) SEC-BUTYLBENZENE	15.878	105	3813059	21.79 µg/L	99
70) 13-DICHLOROBENZENE	16.154	146	1914312	20.44 µg/L	99
72) 4-ISOPROPYLTOLUENE	16.199	119	3403564	21.44 µg/L	99
73) 14-DICHLOROBENZENE	16.355	146	1920483	19.23 µg/L	96
74) 12-DICHLOROBENZENE	17.161	146	1888702	19.88 µg/L	99
75) N-BUTYLBENZENE	17.094	91	2911182	21.32 µg/L	98
76) 12-DIBR-3CLPROPANE	18.960	157	227865	22.76 µg/L	99
77) 124-TRICLBENZENE	20.697	180	1424412	20.27 µg/L	97
78) NAPHTHALENE	21.246	128	3179353	20.76 µg/L	99
79) HEXACHLOROBUTADIENE	21.020	225	550129	20.43 µg/L	99
80) 123-TRICLBENZENE	21.796	182	1288023	19.96 µg/L	98

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

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152522.D
Acq On : 12 Sep 2017 06:24 pm
Operator : NIVA
Sample : 2721709MSD/2721712
Misc : RUN191525
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 13 08:59:29 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Wed Sep 13 08:40:27 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152523.D
Acq On : 12 Sep 2017 06:57 pm
Operator : NIVA
Sample : LFB/2728424
Misc : RUN191525
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 13 09:06:09 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Wed Sep 13 08:40:27 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IPENTAFLUOROBENZENE	5.825	168	236941	20.00	µg/L	#-0.01
23) I14-DIFLUOROBENZENE	6.801	114	830761	20.00	µg/L	-0.01
48) CHLOROBENZEN-d5-IS	11.559	117	2942016	20.00	µg/L	0.00
71) I14-DICLBENZENE-D4	16.305	152	2935137	20.00	µg/L	0.00
System Monitoring Compounds						
24) SDIBRFLUOROMETHANE	5.836	111	224764	19.61	µg/L	-0.01
Spiked Amount 20.000	Range 80 - 120		Recovery = 98.05%			
39) STOLUENE-D8	8.987	98	1396869	19.84	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 99.20%			
59) S4BRFLUOROBENZENE	13.893	95	2043264	20.29	µg/L	0.00
Spiked Amount 20.000	Range 80 - 120		Recovery = 101.45%			
Target Compounds						Qvalue
2) DICLDIFLUOROMETHANE	1.913	85	768837	20.08	µg/L	100
3) CHLOROMETHANE	2.111	50	742678	19.02	µg/L #	98
4) VINYL CHLORIDE	2.216	62	755168	19.52	µg/L	98
5) BROMOMETHANE	2.501	94	269446m	17.58	µg/L	
6) CHLOROETHANE	2.601	64	278354	16.22	µg/L	96
7) TRICLFLUOROMETHANE	2.811	101	903872	19.17	µg/L	100
8) ACROLEIN	3.299	56	2393509	449.36	µg/L	100
9) ACETONE	3.466	43	748772	85.02	µg/L	100
10) 11-DICHLOROETHENE	4.088	61	598817	18.27	µg/L	94
11) IODOMETHANE	3.508	142	4402223	96.33	µg/L	99
12) CARBON DISULFIDE	3.550	76	8325852	92.62	µg/L	97
13) ACRYLONITRILE	4.166	53	934424	93.11	µg/L	98
14) DICHLOROMETHANE	3.854	84	590420	15.42	µg/L	97
15) TRANS12DICLETHENE	4.091	96	523600	17.31	µg/L	95
16) 11-DICHLOROETHANE	4.567	63	1063775	18.90	µg/L	100
17) VINYL ACETATE	4.618	43	6826650	97.95	µg/L	99
18) 2-BUTANONE	5.304	43	1563119	91.44	µg/L	97
19) CIS12DICHLOROETHENE	5.239	96	798487	18.87	µg/L	98
20) 22-DICHLOROPROPANE	5.192	77	719447	18.98	µg/L #	88
21) CHLOROFORM	5.630	83	1289440	18.60	µg/L	100
22) BROMOCHLOROMETHANE	5.543	49	629781	22.30	µg/L	97
25) TETRAHYDROFURAN	5.605	42	1407380	19.00	µg/L	97
26) 111-TRICHLOROETHANE	5.789	97	976890	19.63	µg/L #	76
27) 11-DICHLOROPROPENE	5.987	75	888937	19.16	µg/L	98
28) 12-DICHLOROETHANE	6.369	62	944582	18.53	µg/L	100
29) CARBONTETRACHLORIDE	5.976	117	826164	20.15	µg/L	99
30) BENZENE	6.277	78	2769430	18.96	µg/L	98
31) TRICHLOROETHENE	7.141	132	820915	19.39	µg/L	98
32) 12-DICHLOROPROPANE	7.515	63	720173	19.13	µg/L	98
33) DIBROMOMETHANE	7.727	174	639194	19.81	µg/L	93
34) BROMODICLMETHANE	7.956	83	947924	19.67	µg/L	99
35) 2-CLETHYLVINYLETHER	8.399	63	1684693	98.82	µg/L	95
36) EPICHLOROHYDRIN	8.564	57	1687089	469.55	µg/L	99
37) 4METHYL-2-PENTANONE	8.882	43	3445925	93.75	µg/L	99
38) CIS13DICLPROPENE	8.622	75	1095040	20.53	µg/L	97

Quantitation Report (QT Reviewed)

Data Path : D:\MassHunter\GCMS\1\data\191525\
Data File : 152523.D
Acq On : 12 Sep 2017 06:57 pm
Operator : NIVA
Sample : LFB/2728424
Misc : RUN191525
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 13 09:06:09 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
QLast Update : Wed Sep 13 08:40:27 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) TOLUENE	9.096	91	3249156	18.97 µg/L	99
41) TRANS13DICLPROPENE	9.573	75	867931	21.45 µg/L	98
42) 112-TRICHLOROETHANE	9.894	97	766793	18.84 µg/L	98
43) 2-HEXANONE	10.318	43	2411973	98.51 µg/L	97
44) 13-DICHLOROPROPANE	10.173	76	1319404	18.94 µg/L	96
45) DIBRCHLOROMETHANE	10.583	129	791176	20.74 µg/L	99
46) TETRACHLOROETHENE	9.994	166	901130	19.08 µg/L	97
47) 12-DIBROMOETHANE	10.764	107	783164	19.43 µg/L	100
49) CHLOROBENZENE	11.614	112	2207075	18.89 µg/L	97
50) 1-CHLOROHEXANE	11.539	91	997224	19.27 µg/L	97
51) 1112-TETRACLETHANE	11.796	133	739042	19.81 µg/L	97
52) ETHYLBENZENE	11.787	91	3642456	19.21 µg/L	99
53) MP-XYLENE	12.010	91	5600041	38.61 µg/L	99
54) STYRENE	12.853	104	2492707	19.80 µg/L	90
55) O-XYLENE	12.794	91	2931141	19.59 µg/L	91
56) BROMOFORM	13.302	173	556523	21.68 µg/L	100
57) 1122-TETRACLETHANE	14.328	83	1098237	19.13 µg/L	99
58) ISOPROPYL BENZENE	13.522	105	3580073	20.07 µg/L	99
60) 123-TRICLPROPANE	14.384	110	355285	18.95 µg/L	93
61) TRANS14DICL2BUTENE	14.428	53	1317743	99.74 µg/L	97
62) BROMOBENZENE	14.174	77	1448974	19.61 µg/L	93
63) N-PROPYLBENZENE	14.370	91	4339254	19.73 µg/L	98
64) 2-CHLOROTOLUENE	14.562	91	2416827	18.79 µg/L	98
65) 4-CHLOROTOLUENE	14.802	91	2870618	19.24 µg/L	98
66) 135TRIMETHYLBENZENE	14.746	105	3144146	19.73 µg/L	99
67) TERT-BUTYLBENZENE	15.413	119	2636314	20.11 µg/L	97
68) 124TRIMETHYLBENZENE	15.535	105	3080500	19.71 µg/L	99
69) SEC-BUTYLBENZENE	15.876	105	3680032	19.81 µg/L	99
70) 13-DICHLOROBENZENE	16.154	146	1898356	19.09 µg/L	98
72) 4-ISOPROPYLTOLUENE	16.205	119	3306841	19.76 µg/L	99
73) 14-DICHLOROBENZENE	16.361	146	1905806	18.10 µg/L	96
74) 12-DICHLOROBENZENE	17.164	146	1883458	18.80 µg/L	99
75) N-BUTYLBENZENE	17.091	91	2803860	19.48 µg/L	98
76) 12-DIBR-3CLPROPANE	18.957	157	233502	22.13 µg/L	98
77) 124-TRICLBENZENE	20.694	180	1419542	19.16 µg/L	97
78) NAPHTHALENE	21.252	128	3263905	20.21 µg/L	99
79) HEXACHLOROBUTADIENE	21.015	225	538785	18.98 µg/L	97
80) 123-TRICLBENZENE	21.793	182	1291605	18.98 µg/L	99

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

Quantitation Report (QT Reviewed)

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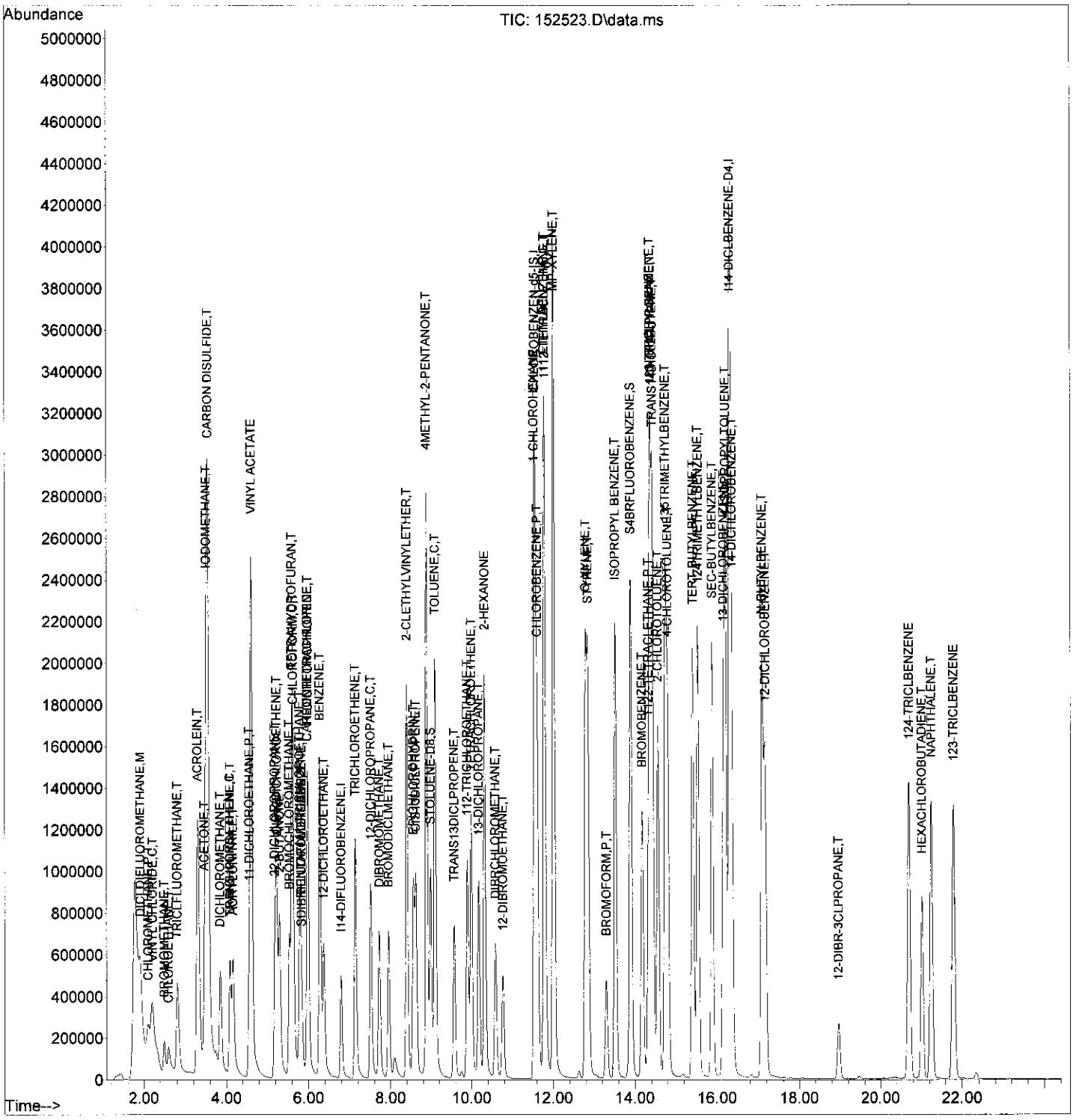
Data File : 152523.D
Acq On : 12 Sep 2017 06:57 pm
Operator : NIVA
Sample : LFB/2728424
Misc : RUN191525
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 13 09:06:09 2017
Quant Method : D:\MassHunter\GCMS\1\methods\8260VOC-AGO3-LIQ-17.M
Quant Title : Analysis of VOC'S by 8260B,624
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