Apex Laboratories, LLC
6700 SW Sandburg St. Tigard, Oregon 97223
503.718.2323

Level IV Data Package for

Anchor QEA, LLC

Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores

Apex Laboratories Work Order #:

A0D0782

The information contained in this Data Package is intended solely for the purpose of validating client sample results submitted under the associated Chain of Custody(ies). An effort has been made to remove all traceable non-client data. Any incidental inclusion of non-client data is considered privileged and confidential information. The use of this information for any purpose other than data validation is strictly prohibited, and constitutes a breach of contract.

APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard, OR 97223 phone 503-718-2323

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APEX LABORATORIES, LLC
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Analytical Case Narrative

APEX LABORATORIES, LLC
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Analytical Case Narrative

Client: Anchor QEA, LLC Date: 06/22/2020
Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Apex Work Order Number: A0D0782

This data package contains data associated with analysis of samples for the above referenced Apex work order numbers. The data package Table of Contents, along with the PDF bookmarks, allow for ease of navigation and location of items within the data deliverable.

The Sample Receipt Documentation section of this package contains sample receipt information, including sample temperature and condition of receipt documented on Cooler Receipt Form(s). Apex analyzed the samples by the methods indicated on the Chain of Custody. Any additional analyses requested are indicated on the Apex Work Order.

If any anomalies were encountered during analysis that could potentially impact data quality, sample results are qualified and/or a separate Case Narrative is included in the Analytical Report. Please refer to the Notes and Definition section of the Analytical Report(s) for Qualifier explanations, Conventions, and the Blank Policy.

Data represented in this package are in compliance with the referenced method(s), both technically and for completeness, for all conditions other than those stated above and/or noted by qualification of the reported data. The signature below verifies that the Laboratory Director or his designee has authorized release of this data package.

Estella Rieben,
Quality Systems Manager
Apex Laboratories, LLC

APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Analytical Report

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

Monday, June 8, 2020

Ryan Barth
Anchor QEA, LLC
6720 SW Macadam Ave. Suite 125
Portland, OR 97219

RE: A0D0782 - Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores - [none]

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A0D0782, which was received by the laboratory on 4/29/2020 at 3:15:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: dthomas@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1	5.8 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.
All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.

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Darwin Thomas, Business Development Director

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0D0782 - 06 08 20 0846**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PDI-TB-2004281140	**A0D0782-01**	**SQ**	**04/28/20 11:40**	**04/29/20 15:15**

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6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0D0782 - 06 08 20 0846**

ANALYTICAL SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-TB-2004281140 (A0D0782-01)				**Matrix: SQ**		**Batch: 0050060**		
Benzene	ND	0.100	0.200	ug/L	1	05/02/20 12:22	EPA 8260C	
Toluene	ND	0.500	1.00	ug/L	1	05/02/20 12:22	EPA 8260C	
Ethylbenzene	ND	0.250	0.500	ug/L	1	05/02/20 12:22	EPA 8260C	
m,p-Xylene	ND	0.500	1.00	ug/L	1	05/02/20 12:22	EPA 8260C	
o-Xylene	ND	0.250	0.500	ug/L	1	05/02/20 12:22	EPA 8260C	
Chlorobenzene	ND	0.250	0.500	ug/L	1	05/02/20 12:22	EPA 8260C	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	05/02/20 12:22	EPA 8260C	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	05/02/20 12:22	EPA 8260C	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	05/02/20 12:22	EPA 8260C	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	05/02/20 12:22	EPA 8260C	
Vinyl chloride	ND	0.200	0.400	ug/L	1	05/02/20 12:22	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*101 %*	*Limits:* *80-120 %*	*1*	*05/02/20 12:22*	*EPA 8260C*	
Toluene-d8 (Surr)			*100 %*	*80-120 %*	*1*	*05/02/20 12:22*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*101 %*	*80-120 %*	*1*	*05/02/20 12:22*	*EPA 8260C*	

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6720 SW Macadam Ave. Suite 125	Project Number:	**[none]**
Portland, OR 97219	Project Manager:	**Ryan Barth**

Report ID:
A0D0782 - 06 08 20 0846

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0050060 - EPA 5030B							**Water**					
Blank (0050060-BLK1)			Prepared: 05/02/20 09:00		Analyzed: 05/02/20 11:22							
EPA 8260C												
Benzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Toluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)			*Recovery: 99 %*		*Limits: 80-120 %*			*Dilution: 1x*				
Toluene-d8 (Surr)			*100 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*104 %*		*80-120 %*			*"*				
LCS (0050060-BS1)			Prepared: 05/02/20 09:00		Analyzed: 05/02/20 10:27							
EPA 8260C												
Benzene	16.6	0.100	0.200	ug/L	1	20.0	---	83	80-120%	---	---	
Toluene	16.2	0.500	1.00	ug/L	1	20.0	---	81	80-120%	---	---	
Ethylbenzene	16.5	0.250	0.500	ug/L	1	20.0	---	83	80-120%	---	---	
m,p-Xylene	33.8	0.500	1.00	ug/L	1	40.0	---	85	80-120%	---	---	
o-Xylene	17.3	0.250	0.500	ug/L	1	20.0	---	86	80-120%	---	---	
Chlorobenzene	16.0	0.250	0.500	ug/L	1	20.0	---	80	80-120%	---	---	
1,1-Dichloroethene	18.4	0.200	0.400	ug/L	1	20.0	---	92	80-120%	---	---	
cis-1,2-Dichloroethene	17.5	0.200	0.400	ug/L	1	20.0	---	88	80-120%	---	---	
Tetrachloroethene (PCE)	16.7	0.200	0.400	ug/L	1	20.0	---	84	80-120%	---	---	
Trichloroethene (TCE)	16.3	0.200	0.400	ug/L	1	20.0	---	81	80-120%	---	---	
Vinyl chloride	17.2	0.200	0.400	ug/L	1	20.0	---	86	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)			*Recovery: 101 %*		*Limits: 80-120 %*			*Dilution: 1x*				
Toluene-d8 (Surr)			*100 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*97 %*		*80-120 %*			*"*				
Duplicate (0050060-DUP1)			Prepared: 05/02/20 10:56		Analyzed: 05/02/20 15:07							

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Darwin Thomas, Business Development Director

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

Anchor QEA, LLC	Project:	**Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**
6720 SW Macadam Ave. Suite 125	Project Number:	**[none]**
Portland, OR 97219	Project Manager:	**Ryan Barth**

Report ID:
A0D0782 - 06 08 20 0846

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0050060 - EPA 5030B							**Water**					
Duplicate (0050060-DUP1)			Prepared: 05/02/20 10:56 Analyzed: 05/02/20 15:07									
QC Source Sample: Non-SDG (A0D0798-02)												
Benzene	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	30%	
Toluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
o-Xylene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)			*Recovery: 100 %*		*Limits: 80-120 %*			*Dilution: 1x*				
Toluene-d8 (Surr)			*102 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*100 %*		*80-120 %*			*"*				
Matrix Spike (0050060-MS1)			Prepared: 05/02/20 10:56 Analyzed: 05/02/20 21:58									
QC Source Sample: Non-SDG (A0D0786-04)												
EPA 8260C												
Benzene	21.5	0.100	0.200	ug/L	1	20.0	ND	108	79-120%	---	---	
Toluene	20.9	0.500	1.00	ug/L	1	20.0	ND	104	80-121%	---	---	
Ethylbenzene	21.2	0.250	0.500	ug/L	1	20.0	ND	106	79-121%	---	---	
m,p-Xylene	43.2	0.500	1.00	ug/L	1	40.0	ND	108	80-121%	---	---	
o-Xylene	21.7	0.250	0.500	ug/L	1	20.0	ND	108	78-122%	---	---	
Chlorobenzene	20.1	0.250	0.500	ug/L	1	20.0	ND	101	80-120%	---	---	
1,1-Dichloroethene	18.0	0.200	0.400	ug/L	1	20.0	ND	90	71-131%	---	---	
cis-1,2-Dichloroethene	28.0	0.200	0.400	ug/L	1	20.0	5.13	114	78-123%	---	---	
Tetrachloroethene (PCE)	22.4	0.200	0.400	ug/L	1	20.0	1.15	106	74-129%	---	---	
Trichloroethene (TCE)	132	0.200	0.400	ug/L	1	20.0	107	**126**	**79-123%**	---	---	Q-03
Vinyl chloride	22.5	0.200	0.400	ug/L	1	20.0	ND	113	58-137%	---	---	
Surr: 1,4-Difluorobenzene (Surr)			*Recovery: 100 %*		*Limits: 80-120 %*			*Dilution: 1x*				
Toluene-d8 (Surr)			*98 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*97 %*		*80-120 %*			*"*				

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Darwin Thomas, Business Development Director

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ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0D0782 - 06 08 20 0846**

SAMPLE PREPARATION INFORMATION

Selected Volatile Organic Compounds by EPA 8260C

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0050060							
A0D0782-01	SQ	EPA 8260C	04/28/20 11:40	05/02/20 10:56	5mL/5mL	5mL/5mL	1.00

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QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

Q-03 Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.

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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.

ND Analyte NOT DETECTED at or above the detection or reporting limit.

NR Result Not Reported

RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.

" dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

" wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

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REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

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LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) -
EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.
Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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Portland, OR 97219	Project Manager:	**Ryan Barth**

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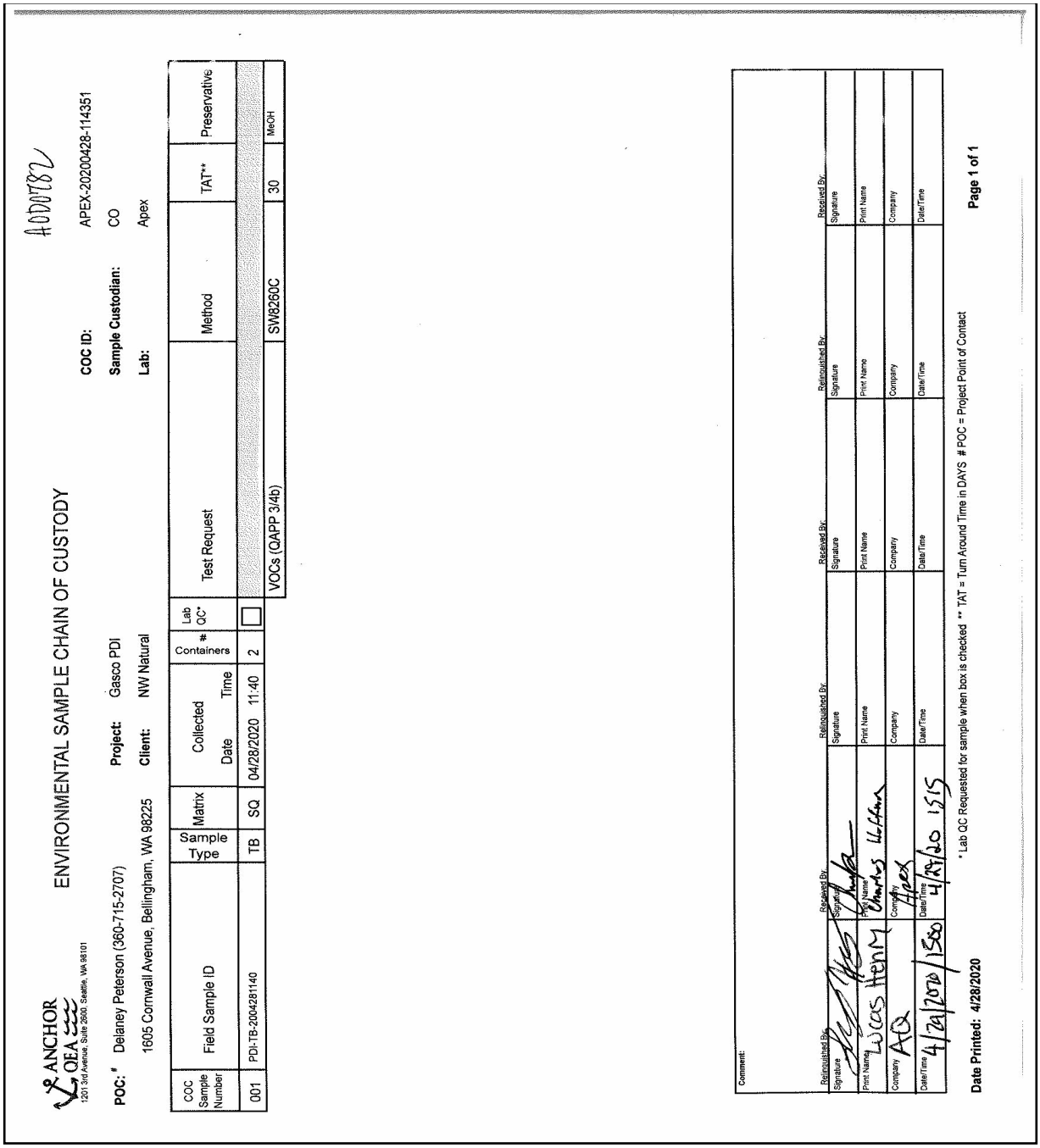


ANCHOR QEA
1201 3rd Avenue, Suite 2600, Seattle, WA 98101

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

A0D0782

COC ID: APEX-20200428-114351

POC: # Delaney Peterson (360-715-2707) Project: Gasco PDI Sample Custodian: CO

1605 Cornwall Avenue, Bellingham, WA 98225 Client: NW Natural Lab: Apex

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	# Containers	Lab QC*	Test Request	Method	TAT**	Preservative
001	PDI-TB-200428114O	TB	SQ	04/28/2020	11:40	2	☐	VOCs (QAPP 3/4b)	SW8260C	30	MeOH

Comment:

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature	Signature	Signature	Signature	Signature	Signature
Print Name Lucas Henry	Print Name Charles Weber	Print Name	Print Name	Print Name	Print Name
Company AQ	Company Apex	Company	Company	Company	Company
Date/Time 4/28/2020 1500	Date/Time 4/28/20 1515	Date/Time	Date/Time	Date/Time	Date/Time

Date Printed: 4/28/2020

* Lab QC Requested for sample when box is checked ** TAT = Turn Around Time in DAYS # POC = Project Point of Contact

Page 1 of 1

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A0D0782 - 06 08 20 0846**

APEX LABS COOLER RECEIPT FORM

Client: Anchor Element WO#: A0D0782

Project/Project #: Gasco PDI

Delivery Info:

Date/time received: 4/29/20 @ 1515 By: CFH

Delivered by: Apex X Client ESS FedEx UPS Swift Senvoy SDS Other

Cooler Inspection Date/time inspected: 4/29/20 @ 1609 By: CFH

Chain of Custody included? Yes X No Custody seals? Yes X No

Signed/dated by client? Yes X No

Signed/dated by Apex? Yes X No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	5.8						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	Y						
Ice type: (Gel/Real/Other)	Real						
Condition:	Good						

Cooler out of temp? (Y(N) Possible reason why:

If some coolers are in temp and some out, were green dots applied to out of temperature samples? Yes/No/(NA)

Out of temperature samples form initiated? Yes/No/(NA)

Samples Inspection: Date/time inspected: 4/30/20 @ 1530 By: CFH

All samples intact? Yes X No Comments:

Bottle labels/COCs agree? Yes X No Comments:

COC/container discrepancies form initiated? Yes No NA X

Containers/volumes received appropriate for analysis? Yes X No Comments:

Do VOA vials have visible headspace? Yes No X NA

Comments

Water samples: pH checked: Yes No NA X pH appropriate? Yes No NA X

Comments:

Additional information: TB#2792

Labeled by: 8 Witness: VRS Cooler Inspected by: CFH See Project Contact Form: Y

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director

APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Sample Receipt Documentation
(Work orders, Chain of Custody & Cooler Receipt Forms)

A0D0782

Apex Laboratories

Client: Anchor QEA, LLC
Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Project Manager: Darwin Thomas
Project Number: [none]

Report To:
Anchor QEA, LLC
Ryan Barth
6720 SW Macadam Ave. Suite 125
Portland, OR 97219
Phone: (503) 670-1108
Fax: na

Invoice To:
Anchor QEA, LLC Seattle
Accounts Payable
1201 3rd Avenue, Suite 2600
Seattle, WA 98101
Phone :(206) 287-9130
Fax: (206) 287-9131

Date Due: 05/13/20 17:00 (10 day TAT)
Received By: Charles F. Hoffman
Date Received: 04/29/20 15:15
Logged In By: Susan L. Treat
Date Logged In: 04/30/20 15:35

Cooler #1 received at 5.8°C

Custody Seals	Yes	Containers Intact	Yes	COC/Labels Agree	Yes	PH Confirmed	No	Received On Ice	Yes
Temperature OK	Yes								

Analysis	Due	TAT	Expires	Comments
A0D0782-01 PDI-TB-2004281140 [Water] Sampled 04/28/20 11:40 (GMT-08:00) Pacific Time (US & Canada) 2 Containers				**TB#2292**
Project Mgmt				
Data Package	05/12/20 17:00	10	08/05/20 11:40	
Volatiles				
8260C BTEX+Halo6	05/12/20 17:00	10	05/12/20 11:40	

Reviewed By

Date

A0D0782

ANCHOR QEA
1201 3rd Avenue, Suite 2600, Seattle, WA 98101

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: APEX-20200428-114351

POC: # Delaney Peterson (360-715-2707)
1605 Cornwall Avenue, Bellingham, WA 98225

Project: Gasco PDI
Client: NW Natural

Sample Custodian: CO
Lab: Apex

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	PDI-TB-2004281140	TB	SQ	04/28/2020	11:40	2	☐	VOCs (QAPP 3/4b)	SW8260C	30	MeOH

Comment:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name: Lucas Henry	Print Name: Charles Hoffman	Print Name	Print Name	Print Name	Print Name
Company: AQ	Company: Apex	Company	Company	Company	Company
Date/Time: 4/29/2020 1500	Date/Time: 4/29/20 1515	Date/Time	Date/Time	Date/Time	Date/Time

* Lab QC Requested for sample when box is checked ** TAT = Turn Around Time in DAYS # POC = Project Point of Contact

Date Printed: 4/28/2020

APEX LABS COOLER RECEIPT FORM

Client: Anchor Element WO#: A0D0782

Project/Project #: Gasco PDI

Delivery Info:

Date/time received: 4/29/20 @ 1515 By: CFH

Delivered by: Apex X Client ___ ESS ___ FedEx ___ UPS ___ Swift ___ Senvoy ___ SDS ___ Other ___

Cooler Inspection Date/time inspected: 4/29/20 @ 1609 By: CFH

Chain of Custody included? Yes X No ___ Custody seals? Yes X No ___

Signed/dated by client? Yes X No ___

Signed/dated by Apex? Yes X No ___

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	5.8						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	Y						
Ice type: (Gel/Real/Other)	Real						
Condition:	Good						

Cooler out of temp? (Y(N) Possible reason why: ___

If some coolers are in temp and some out, were green dots applied to out of temperature samples? Yes/No/(NA)

Out of temperature samples form initiated? Yes/No/(NA)

Samples Inspection: Date/time inspected: 4/30/20 @ 1530 By: ST

All samples intact? Yes X No ___ Comments: ___

Bottle labels/COCs agree? Yes X No ___ Comments: ___

COC/container discrepancies form initiated? Yes ___ No ___ NA X

Containers/volumes received appropriate for analysis? Yes X No ___ Comments: ___

Do VOA vials have visible headspace? Yes ___ No X NA ___

Comments ___

Water samples: pH checked: Yes ___ No ___ NA X pH appropriate? Yes ___ No ___ NA X

Comments: ___

Additional information: TB#2792

Labeled by: 8 Witness: VLS Cooler Inspected by: CFH See Project Contact Form: Y

APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

CLP-Like Forms

Apex Laboratories

SDG: Gasco PreRD_DG 2019

CLASS: GCMS

METHOD: EPA 8260C

ANALYSES DATA PACKAGE COVER PAGE

EPA 8260C

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC

SDG: Gasco PreRD_DG 2019
Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing C

Client Sample Id:	Lab Sample Id:	Matrix
PDI-TB-2004281140	A0D0782-01	WQ

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

Signature: 
Name: David G. Jack

Forms Created: 6/19/2020 12:16PM
Title: Technical Manager

METHOD DETECTION AND REPORTING LIMITS

EPA 8260C

Laboratory: Apex Laboratories **SDG:** Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC **Project:** Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP

Batch Matrix: Water

Analyte	MDL	MRL	Units
Benzene	0.100	0.200	ug/L
Toluene	0.500	1.00	ug/L
Ethylbenzene	0.250	0.500	ug/L
m,p-Xylene	0.500	1.00	ug/L
o-Xylene	0.250	0.500	ug/L
Chlorobenzene	0.250	0.500	ug/L
1,1-Dichloroethene	0.200	0.400	ug/L
cis-1,2-Dichloroethene	0.200	0.400	ug/L
Tetrachloroethene (PCE)	0.200	0.400	ug/L
Trichloroethene (TCE)	0.200	0.400	ug/L
Vinyl chloride	0.200	0.400	ug/L

Note: MDLs are listed only if the corresponding analyte was evalutated to the MDL in this report .

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

PDI-TB-2004281140

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	WQ	Laboratory ID:	A0D0782-01	File ID:	VA20050207.D
Sampled:	04/28/20 11:40	Prepared:	05/02/20 10:56	Analyzed:	05/02/20 12:22
		Preparation:	EPA 5030B	Initial/Final:	5 mL / 5 mL

Batch: 0050060 Sequence: 0E02003 Calibration: A0E0201 Instrument: VOA-GCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
71-43-2	Benzene	1	0.100	U
108-88-3	Toluene	1	0.500	U
100-41-4	Ethylbenzene	1	0.250	U
179601-23-1	m,p-Xylene	1	0.500	U
95-47-6	o-Xylene	1	0.250	U
108-90-7	Chlorobenzene	1	0.250	U
75-35-4	1,1-Dichloroethene	1	0.200	U
156-59-2	cis-1,2-Dichloroethene	1	0.200	U
127-18-4	Tetrachloroethene (PCE)	1	0.200	U
79-01-6	Trichloroethene (TCE)	1	0.200	U
75-01-4	Vinyl chloride	1	0.200	U

SYSTEM MONITORING COMPOUND	ADDED (ng/mL)	CONC (ng/mL)	% REC	QC LIMITS	Q
1,4-Difluorobenzene (Surr)	50.0	50.4	101	80 - 120	
Toluene-d8 (Surr)	50.0	50.0	100	80 - 120	
4-Bromofluorobenzene (Surr)	50.0	50.4	101	80 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (ISTD)	111142	5.531	113062	5.531	
Chlorobenzene-d5 (ISTD)	318799	9.297	324968	9.297	
1,4-Dichlorobenzene-d4 (ISTD)	152025	11.359	166107	11.359	

* Values outside of QC limits

PREPARATION BATCH SUMMARY

EPA 8260C

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cc
Batch: 0050060
Batch Matrix: Water
Preparation: EPA 5030B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0050060-BLK1	VA20050205.D	05/02/20 09:00	
LCS	0050060-BS1	VA20050203.D	05/02/20 09:00	
PDI-TB-2004281140	A0D0782-01	VA20050207.D	05/02/20 10:56	

Note: Client samples are listed only if they are included in this report.
Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

METHOD BLANK DATA SHEET
EPA 8260C

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Matrix:	Water	Laboratory ID:	0050060-BLK1	File ID:	VA20050205.D
Prepared:	05/02/20 09:00	Preparation:	EPA 5030B	Initial/Final:	5 mL / 5 mL
Analyzed:	05/02/20 11:22	Instrument:	VOA-GCMS1		
Batch:	0050060	Sequence:	0E02003	Calibration:	A0E0201

CAS NO.	COMPOUND	CONC. (ug/L)	Q
71-43-2	Benzene	0.100	U
108-88-3	Toluene	0.500	U
100-41-4	Ethylbenzene	0.250	U
179601-23-1	m,p-Xylene	0.500	U
95-47-6	o-Xylene	0.250	U
108-90-7	Chlorobenzene	0.250	U
75-35-4	1,1-Dichloroethene	0.200	U
156-59-2	cis-1,2-Dichloroethene	0.200	U
127-18-4	Tetrachloroethene (PCE)	0.200	U
79-01-6	Trichloroethene (TCE)	0.200	U
75-01-4	Vinyl chloride	0.200	U

SYSTEM MONITORING COMPOUND	ADDED (ng/mL)	CONC (ng/mL)	% REC	QC LIMITS	Q
1,4-Difluorobenzene (Surr)	50.0	49.7	99	80 - 120	
Toluene-d8 (Surr)	50.0	50.1	100	80 - 120	
4-Bromofluorobenzene (Surr)	50.0	51.9	104	80 - 120	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (ISTD)	108522	5.53	113062	5.531	
Chlorobenzene-d5 (ISTD)	306266	9.296	324968	9.297	
1,4-Dichlorobenzene-d4 (ISTD)	142319	11.358	166107	11.359	

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Water		
Batch:	0050060	Laboratory ID:	0050060-BS1
Preparation:	EPA 5030B	Initial/Final:	5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. (*=Out)	QC LIMITS REC.
Benzene	20.0	16.6	83	80 - 120
Toluene	20.0	16.2	81	80 - 120
Ethylbenzene	20.0	16.5	83	80 - 120
m,p-Xylene	40.0	33.8	85	80 - 120
o-Xylene	20.0	17.3	86	80 - 120
Chlorobenzene	20.0	16.0	80	80 - 120
1,1-Dichloroethene	20.0	18.4	92	80 - 120
cis-1,2-Dichloroethene	20.0	17.5	88	80 - 120
Tetrachloroethene (PCE)	20.0	16.7	84	80 - 120
Trichloroethene (TCE)	20.0	16.3	81	80 - 120
Vinyl chloride	20.0	17.2	86	80 - 120

* = Values outside of QC limits

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260C

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0E01047	Instrument:	VOA-GCMS1
Matrix:	Water	Calibration:	A0E0201

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	0E01047-TUN1	VA20050103.D	05/01/20 15:26
Initial Cal Blank	0E01047-ICB1	VA20050104.D	05/01/20 15:53
Cal Standard	0E01047-CAL1	VA20050105.D	05/01/20 16:20
Cal Standard	0E01047-CAL2	VA20050106.D	05/01/20 16:48
Cal Standard	0E01047-CAL3	VA20050107.D	05/01/20 17:15
Cal Standard	0E01047-CAL4	VA20050108.D	05/01/20 17:43
Cal Standard	0E01047-CAL5	VA20050109.D	05/01/20 18:10
Cal Standard	0E01047-CAL6	VA20050110.D	05/01/20 18:37
Cal Standard	0E01047-CAL7	VA20050111.D	05/01/20 19:05
Cal Standard	0E01047-CAL8	VA20050112.D	05/01/20 19:32
Cal Standard	0E01047-CAL9	VA20050113.D	05/01/20 19:59
Cal Standard	0E01047-CALA	VA20050115.D	05/01/20 20:54
Cal Standard	0E01047-CALB	VA20050117.D	05/01/20 21:48
Initial Cal Check	0E01047-ICV1	VA20050120.D	05/01/20 23:10

Note: Client samples are listed only if they are included in this report.
Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260C

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0E02003	Instrument:	VOA-GCMS1
Matrix:	Water	Calibration:	A0E0201

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	0E02003-TUN1	VA20050202.D	05/02/20 09:59
Calibration Check	0E02003-CCV1	VA20050203.D	05/02/20 10:27
Blank	0050060-BLK1	VA20050205.D	05/02/20 11:22
PDI-TB-2004281140	A0D0782-01	VA20050207.D	05/02/20 12:22

Note: Client samples are listed only if they are included in this report.
Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260C

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Lab File ID:	VA20050103.D	Injection Date:	05/01/20
Instrument ID:	VOA-GCMS1	Injection Time:	15:26
Sequence:	0E01047	Lab Sample ID:	0E01047-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 95	50 - 200% of m/z 174	129.56	PASS
m/z 96	5 - 9% of m/z 95	6.77	PASS
m/z 173	Less than 2% of m/z 174	0.12	PASS
m/z 174	50 - 200% of m/z 95	77.19	PASS
m/z 175	5 - 9% of m/z 174	6.86	PASS
m/z 176	95 - 105% of m/z 174	96.63	PASS
m/z 177	5 - 10% of m/z 176	6.61	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260C

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Lab File ID:	VA20050202.D	Injection Date:	05/02/20
Instrument ID:	VOA-GCMS1	Injection Time:	09:59
Sequence:	0E02003	Lab Sample ID:	0E02003-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 95	50 - 200% of m/z 174	129.18	PASS
m/z 96	5 - 9% of m/z 95	6.60	PASS
m/z 173	Less than 2% of m/z 174	0.39	PASS
m/z 174	50 - 200% of m/z 95	77.41	PASS
m/z 175	5 - 9% of m/z 174	7.20	PASS
m/z 176	95 - 105% of m/z 174	97.01	PASS
m/z 177	5 - 10% of m/z 176	6.69	PASS

INITIAL CALIBRATION DATA (Summary)

EPA 8260C

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing
Calibration: A0E0201
Date: 05/02/20 11:10
Instrument: VOA-GCMS1

Compound	Mean RF	FIT	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Benzene	4.918641	Ave	5.386426	5.416454	4.562449E-02			20	
Toluene	1.775976	Ave	7.397589	7.612636	3.498483E-02			20	
Ethylbenzene	1.871572	Ave	8.150075	9.356909	3.818215E-02			20	
m,p-Xylene	1.346024	Ave	7.087553	9.505091	3.298014E-02			20	
o-Xylene	1.340901	Ave	6.198632	9.912728	4.281911E-02			20	
Chlorobenzene	1.099595	Ave	9.332076	9.316182	0.0280623			20	
1,1-Dichloroethene	1.54624	Ave	6.560514	2.7049	7.097465E-02			20	
cis-1,2-Dichloroethene	1.55588	Ave	4.05911	4.5756	6.898445E-02			20	
Tetrachloroethene (PCE)	0.3543716	Ave	6.483188	8.0549	3.868233E-02			20	
Trichloroethene (TCE)	1.143534	Ave	6.810214	6.0264	5.449145E-02			20	
Vinyl chloride	1.492885	Ave	5.541171	1.651909	7.718287E-02			20	
1,4-Difluorobenzene (Surr)	3.165275	Ave	0.8118372	6.072364	1.567766E-02			20	
Toluene-d8 (Surr)	1.315836	Ave	2.255671	7.556909	1.492248E-02			20	
4-Bromofluorobenzene (Surr)	0.7647019	Ave	3.081777	10.44418	2.786085E-02			20	

Note: ** Quad COD may be incorrect if weighting (1/a) or (1/a2) used. Weighting not shown here. Please see instrument calibration printouts for validation.

INITIAL CALIBRATION DATA

EPA 8260C

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC
Calibration: A0E0201

SDG: Gasco_PreRD_DG 2019
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te
Instrument: VOA-GCMS1
Calibration Date: 05/02/20 11:10

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
Benzene	0.1	5.424896	0.2	5.192858	0.4	5.094717	1	4.864506	2	4.646018	5	4.593616
Toluene	0.1	1.948521	0.2	1.995327	0.4	1.967543	1	1.72369	2	1.686406	5	1.674393
Ethylbenzene	0.1	2.186546	0.2	1.912459	0.4	2.047625	1	1.700742	2	1.691347	5	1.760301
m,p-Xylene	0.2	1.400243	0.4	1.412815	0.8	1.363441	2	1.19935	4	1.222059	10	1.244805
o-Xylene	0.1	1.34443	0.2	1.326697	0.4	1.345782	1	1.232428	2	1.244297	5	1.252666
Xylenes, total	0.3	1.381639	0.6	1.384109	1.2	1.357554	3	1.210376	6	1.229472	15	1.247425
Chlorobenzene	0.1	1.321448	0.2	1.212145	0.4	1.205331	1	1.038076	2	1.047291	5	1.022109
1,1-Dichloroethene	0.1	~~0~~	0.2	1.387055	0.4	1.541135	1	1.500504	2	1.434758	5	1.503194
cis-1,2-Dichloroethene	0.1	~~0~~	0.2	1.579638	0.4	1.486621	1	1.513778	2	1.483713	5	1.523344
Tetrachloroethene (PCE)	0.1	~~0.2642897~~	0.2	0.3867165	0.4	0.3872664	1	0.332045	2	0.330264	5	0.3328038
Trichloroethene (TCE)	0.1	~~0.6914538~~	0.2	1.221984	0.4	1.264026	1	1.080289	2	1.066654	5	1.040471
Vinyl chloride	0.1	1.517486	0.2	1.653002	0.4	1.533185	1	1.405292	2	1.343909	5	1.466147
1,4-Difluorobenzene (Surr)	50	3.16851	50	3.169537	50	3.136338	50	3.185444	50	3.155743	50	3.134606
Toluene-d8 (Surr)	50	1.338163	50	1.335891	50	1.348571	50	1.323878	50	1.320668	50	1.335209
4-Bromofluorobenzene (Surr)	50	0.7721126	50	0.8024252	50	0.7704119	50	0.7835025	50	0.7900836	50	0.756409

INITIAL CALIBRATION DATA (Continued)

EPA 8260C

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te
Calibration: A0E0201
Instrument: VOA-GCMS1
Matrix:
Calibration Date: 05/02/20 11:10

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
Benzene	10	4.908629	20	4.77317	50	4.576984	100	5.019415	200	5.010238		
Toluene	10	1.74552	20	1.697799	50	1.616639	100	1.770946	200	1.708951		
Ethylbenzene	10	1.839664	20	1.844161	50	1.741425	100	1.952177	200	1.910846		
m,p-Xylene	20	1.353127	40	1.359996	100	1.298892	200	1.480595	400	1.470946		
o-Xylene	10	1.351429	20	1.375678	50	1.319617	100	1.491761	200	1.465122		
Xylenes, total	30	1.352561	60	1.365223	150	1.3058	300	1.484317	600	1.469004		
Chlorobenzene	10	1.050865	20	1.042765	50	0.9856981	100	1.10361	200	1.066203		
1,1-Dichloroethene	10	1.598267	20	1.562199	50	1.535688	100	1.681916	200	1.717685		
cis-1,2-Dichloroethene	10	1.595312	20	1.56533	50	1.507134	100	1.6496	200	1.654333		
Tetrachloroethene (PCE)	10	0.350024	20	0.3514803	50	0.3316702	100	0.3705752	200	0.3708707		
Trichloroethene (TCE)	10	1.130002	20	1.148862	50	1.072113	100	1.19145	200	1.219493		
Vinyl chloride	10	1.527489	20	1.499189	50	1.417408	100	1.543378	200	1.51525		
1,4-Difluorobenzene (Surr)	50	3.162132	50	3.149178	50	3.183404	50	3.14919	50	3.223946		
Toluene-d8 (Surr)	50	1.32136	50	1.320372	50	1.305937	50	1.276982	50	1.247169		
4-Bromofluorobenzene (Surr)	50	0.7571385	50	0.7703588	50	0.754454	50	0.7282381	50	0.7265865		

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260C

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP
Instrument ID:	VOA-GCMS1	Calibration:	A0E0201
Lab File ID:	VA20050120.D		
Sequence:	0E01047	Inject Date:	05/01/20
Lab Sample ID:	0E01047-ICV1	Inject Time:	23:10

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Benzene	20.0	19.1	-4.6	70 - 130
Toluene	20.0	19.3	-3.6	70 - 130
Ethylbenzene	20.0	19.7	-1.3	70 - 130
Xylenes, total	60.0	61.3	2.2	70 - 130
Chlorobenzene	20.0	19.3	-3.7	70 - 130
1,1-Dichloroethene	20.0	16.9	-15.7	70 - 130
cis-1,2-Dichloroethene	20.0	19.4	-3.2	70 - 130
Tetrachloroethene (PCE)	20.0	20.3	1.3	70 - 130
Trichloroethene (TCE)	20.0	20.5	2.4	70 - 130
Vinyl chloride	20.0	20.1	0.6	70 - 130

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8260C

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0E01047	Instrument:	VOA-GCMS1
Matrix:	Water	Calibration:	A0E0201

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Initial Cal Check (0E01047-ICV1)			Lab File ID: VA20050120.D		Analyzed: 05/01/20 23:10			
1,4-Difluorobenzene (Surr)	50.0	100	70 - 130	6.072	6.072364	-0.0004	+/-1.0	
Toluene-d8 (Surr)	50.0	100	70 - 130	7.556	7.556909	-0.0009	+/-1.0	
4-Bromofluorobenzene (Surr)	50.0	99	70 - 130	10.446	10.44418	0.0018	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8260C

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0E02003	Instrument:	VOA-GCMS1
Matrix:	Water	Calibration:	A0E0201

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
LCS (0050060-BS1)			Lab File ID: VA20050203.D		Analyzed: 05/02/20 10:27			
1,4-Difluorobenzene (Surr)	50.0	101	80 - 120	6.073	6.072364	0.0006	+/-1.0	
Toluene-d8 (Surr)	50.0	100	80 - 120	7.557	7.556909	0.0001	+/-1.0	
4-Bromofluorobenzene (Surr)	50.0	97	80 - 120	10.447	10.44418	0.0028	+/-1.0	
Blank (0050060-BLK1)			Lab File ID: VA20050205.D		Analyzed: 05/02/20 11:22			
1,4-Difluorobenzene (Surr)	50.0	99	80 - 120	6.072	6.072364	-0.0004	+/-1.0	
Toluene-d8 (Surr)	50.0	100	80 - 120	7.556	7.556909	-0.0009	+/-1.0	
4-Bromofluorobenzene (Surr)	50.0	104	80 - 120	10.446	10.44418	0.0018	+/-1.0	
PDI-TB-2004281140 (A0D0782-01)			Lab File ID: VA20050207.D		Analyzed: 05/02/20 12:22			
1,4-Difluorobenzene (Surr)	50.0	101	80 - 120	6.073	6.072364	0.0006	+/-1.0	
Toluene-d8 (Surr)	50.0	100	80 - 120	7.557	7.556909	0.0001	+/-1.0	
4-Bromofluorobenzene (Surr)	50.0	101	80 - 120	10.447	10.44418	0.0028	+/-1.0	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8260C

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	0E02003	Instrument:	VOA-GCMS1
Matrix:	Water	Calibration:	A0E0201

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LCS (0050060-BS1)			Lab File ID: VA20050203.D			Analyzed: 05/02/20 10:27			
Pentafluorobenzene (ISTD)	113062	5.531	113062	5.531	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (ISTD)	324968	9.297	324968	9.297	100	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4 (ISTD)	166107	11.359	166107	11.359	100	50 - 200	0.0000	+/-0.50	
Calibration Check (0E02003-CCV1)			Lab File ID: VA20050203.D			Analyzed: 05/02/20 10:27			
Pentafluorobenzene (ISTD)	113062	5.531	110975	5.531	102	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (ISTD)	324968	9.297	316682	9.296	103	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4 (ISTD)	166107	11.359	156505	11.359	106	50 - 200	0.0000	+/-0.50	
Blank (0050060-BLK1)			Lab File ID: VA20050205.D			Analyzed: 05/02/20 11:22			
Pentafluorobenzene (ISTD)	108522	5.53	113062	5.531	96	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5 (ISTD)	306266	9.296	324968	9.297	94	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4 (ISTD)	142319	11.358	166107	11.359	86	50 - 200	-0.0010	+/-0.50	
PDI-TB-2004281140 (A0D0782-01)			Lab File ID: VA20050207.D			Analyzed: 05/02/20 12:22			
Pentafluorobenzene (ISTD)	111142	5.531	113062	5.531	98	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (ISTD)	318799	9.297	324968	9.297	98	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4 (ISTD)	152025	11.359	166107	11.359	92	50 - 200	0.0000	+/-0.50	
Duplicate (0050060-DUP1)			Lab File ID: VA20050213.D			Analyzed: 05/02/20 15:07			
Pentafluorobenzene (ISTD)	98016	5.53	113062	5.531	87	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5 (ISTD)	274435	9.302	324968	9.297	84	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4 (ISTD)	128962	11.358	166107	11.359	78	50 - 200	-0.0010	+/-0.50	
Matrix Spike (0050060-MS1)			Lab File ID: VA20050228.D			Analyzed: 05/02/20 21:58			
Pentafluorobenzene (ISTD)	95491	5.531	113062	5.531	84	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (ISTD)	276715	9.296	324968	9.297	85	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4 (ISTD)	141839	11.359	166107	11.359	85	50 - 200	0.0000	+/-0.50	

HOLDING TIME SUMMARY

EPA 8260C

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
PDI-TB-2004281140	04/28/20 11:40	04/29/20 15:15	05/02/20 10:56	3.97	14.00	05/02/20 12:22	4.03	14.00	

APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Raw Data

APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Selected Volatile Organic Compounds by EPA 5035A/8260C
Benchsheet & Analysis Sequence Data

Batch 0050060
Sequence 0E02003 (A0D0782-01)

PREPARATION BENCH SHEET

Apex Laboratories

BATCH #: 0050060 (Water)

Prep Method: EPA 5030B

Lab Number	Cont.	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	ClientID / Sample	Extraction Comments	pH*
0050060-BLK1		QC	05/02/20 09:00	5	5							
0050060-BS1		QC	05/02/20 09:00	5	5	A20D392		5				
0050060-BS2		QC	05/02/20 09:00	5	5	A20D403		5				
A0D0725-01	B	8260D Halogenated VOCs	05/02/20 10:56	5	5					Puddle		<2
A0D0725-02	B	8260D Halogenated VOCs	05/02/20 10:56	5	5					Tap		<2
A0D0776-04	A	8260C BTEX+Halo6	05/02/20 10:56	5	5					PDI-TB-2004290947		<2
A0D0782-01	A	8260C BTEX+Halo6	05/02/20 10:56	5	5					PDI-TB-2004281140		<2
A0D0786-04	A	8260D Full List	05/02/20 10:56	5	5					DMW-2B-0420		<2
A0D0786-04	A	NWTPH-Gx	05/02/20 10:56	5	5					DMW-2B-0420	Added for BatchQC in: 0050060	<2
A0D0786-04	A	8260C BTEX+Halo6	05/02/20 10:56	5	5					DMW-2B-0420	Added for BatchQC in: 0050060	<2
A0D0786-04	A	8260D Halogenated VOCs	05/02/20 10:56	5	5					DMW-2B-0420	Added for BatchQC in: 0050060	<2
0050060-MS1		QC	05/02/20 10:56	5	5	A20D392	A0D0786-04	5				<2
A0D0786-05	A	8260D Full List	05/02/20 10:56	5	5					DMW-2C-0420		<2
A0D0786-06	A	8260D Full List	05/02/20 10:56	5	5					DMW-3B-0420		<2
A0D0786-07	A	8260D Full List	05/02/20 10:56	5	5					DMW-4A-0420		<2
A0D0786-08	A	8260D Full List	05/02/20 10:56	5	5					DMW-4B-0420		<2
A0D0786-09	A	8260D Full List	05/02/20 10:56	5	5					DMW-5B-0420		<2
A0D0786-10	A	8260D Full List	05/02/20 10:56	5	5					DMW-6A-0420		<2
A0D0786-11	A	8260D Full List	05/02/20 10:56	5	5					DMW-7A-0420		<2
A0D0786-12	A	8260D Full List	05/02/20 10:56	5	5					DMW-7C-0420		<2
A0D0786-13	A	8260D Full List	05/02/20 10:56	5	5					DMW-8A-0420		<2
A0D0798-01	A	NWTPH-Gx	05/02/20 10:56	5	5					UP-1-042920		<2

PS 05/04/2020
Prepared By: Date

MKZ 5/5/20
Reviewed By: Date

Printed: 5/4/2020 1:43:03PM

PREPARATION BENCH SHEET

Apex Laboratories

BATCH #: 0050060 (Water)

Prep Method: EPA 5030B

Lab Number	Cont.	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	ClientID / Sample	Extraction Comments	pH*
A0D0798-02	A	8260C BTEX+Halo6	05/02/20 10:56	5	5					UP-2-042920	Added for BatchQC in: 0050060	<2
A0D0798-02	A	NWTPH-Gx	05/02/20 10:56	5	5					UP-2-042920	Site specific QC. Dup	<2
A0D0798-02	A	8260D Halogenated VOCs	05/02/20 10:56	5	5					UP-2-042920	Added for BatchQC in: 0050060	<2
A0D0798-02	A	8260D Full List	05/02/20 10:56	5	5					UP-2-042920	Added for BatchQC in: 0050060	<2
0050060-DUP1		QC	05/02/20 10:56	5	5		A0D0798-02					<2
A0D0798-03	A	NWTPH-Gx	05/02/20 10:56	5	5					UP-3-042920		<2
A0D0798-04	A	NWTPH-Gx	05/02/20 10:56	5	5					UP-4-042920		<2
A0D0798-05	A	NWTPH-Gx	05/02/20 10:56	5	5					DUPL-1-042920		<2
A0D0798-06	A	NWTPH-Gx	05/02/20 10:56	5	5					Trip Blank		<2

*pH <2 verified PS 05/04/2020

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description

Analyte Spike(s)

Std ID	Exp. Date	Description
A20D392	05/11/20	8260 Cal. Std. B VOCR+OXY Spike (20-40ug/r
A20D403	09/13/20	Prim NWTPH-Gx Spike (500 ug/mL)

Surrogate(s)

Std ID	Exp. Date	Description

GCMS1

PS 05/04/2020

Prepared By: Date

Reviewed By: Date

Printed: 5/4/2020 1:43:03PM

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0E02003** Instrument: **VOA-GCMS1**

Date: **05/02/20 09:11** Calibration: ~~**A0D2702**~~ A0E0201 MKZ 5/5/20

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0E02003-IBL1	Water	QC	QC			A20C447	
2	0E02003-TUN1	Water	QC	QC			A20C447	
3	0E02003-CCV1	Water	QC	QC			A20C447	
4	0050060-BS1	Water	QC	QC		0050060	A20C447	
5	0E02003-CCV2	Water	QC	QC			A20C447	
6	0050060-BS2	Water	QC	QC		0050060	A20C447	
7	0050060-BLK1	Water	QC	QC		0050060	A20C447	
8	A0D0776-04	Water	8260C BTEX+Halo6	Anchor QEA, LLC	05/12/20	0050060	A20C447	
9	A0D0782-01	Water	8260C BTEX+Halo6	Anchor QEA, LLC	05/12/20	0050060	A20C447	
10	A0D0798-06	Water	NWTPH-Gx		05/06/20	0050060	A20C447	
11	A0D0725-01	Water	8260D Halogenated VOCs		05/12/20	0050060	A20C447	
12	A0D0725-02	Water	8260D Halogenated VOCs		05/12/20	0050060	A20C447	
13	A0D0798-01	Water	NWTPH-Gx		05/06/20	0050060	A20C447	
14	A0D0798-02	Water	NWTPH-Gx		05/06/20	0050060	A20C447	
"	"	Water	8260C BTEX+Halo6	(QC Source)		0050060	A20C447	
"	"	Water	8260D Full List	(QC Source)		0050060	A20C447	
"	"	Water	8260D Halogenated VOCs	(QC Source)		0050060	A20C447	
15	0050060-DUP1	Water	QC	QC		0050060	A20C447	
16	A0D0798-03	Water	NWTPH-Gx		05/06/20	0050060	A20C447	
17	A0D0798-04	Water	NWTPH-Gx		05/06/20	0050060	A20C447	
18	A0D0798-05	Water	NWTPH-Gx		05/06/20	0050060	A20C447	
19	0E02003-IBL2	Water	QC	QC			A20C447	
20	A0D0786-05	Water	8260D Full List		05/13/20	0050060	A20C447	
21	A0D0786-06	Water	8260D Full List		05/13/20	0050060	A20C447	
22	A0D0786-07	Water	8260D Full List		05/13/20	0050060	A20C447	
23	A0D0786-08	Water	8260D Full List		05/13/20	0050060	A20C447	
24	A0D0786-09	Water	8260D Full List		05/13/20	0050060	A20C447	
25	A0D0786-10	Water	8260D Full List		05/13/20	0050060	A20C447	
26	A0D0786-11	Water	8260D Full List		05/13/20	0050060	A20C447	
27	A0D0786-12	Water	8260D Full List		05/13/20	0050060	A20C447	
28	A0D0786-13	Water	8260D Full List		05/13/20	0050060	A20C447	
29	A0D0786-04	Water	8260D Full List		05/13/20	0050060	A20C447	
"	"	Water	8260C BTEX+Halo6	(QC Source)		0050060	A20C447	
"	"	Water	8260D Halogenated VOCs	(QC Source)		0050060	A20C447	
"	"	Water	NWTPH-Gx	(QC Source)		0050060	A20C447	
30	0050060-MS1	Water	QC	QC		0050060	A20C447	
31	0E02003-IBL3	Water	QC	QC			A20C447	
32	0E02003-IBL4	Water	QC	QC			A20C447	
33	0E02003-IBL5	Water	QC	QC			A20C447	

Comments: Raise MDL=MRL for 1,4-Dichlorobenzene & Bromobenzene
Chlorethane Estimated (ICV low)
Raise MDL/MRL for t-1,3-DCP to 1/2ppb (int)

Data Entered By: TB 5/4/20

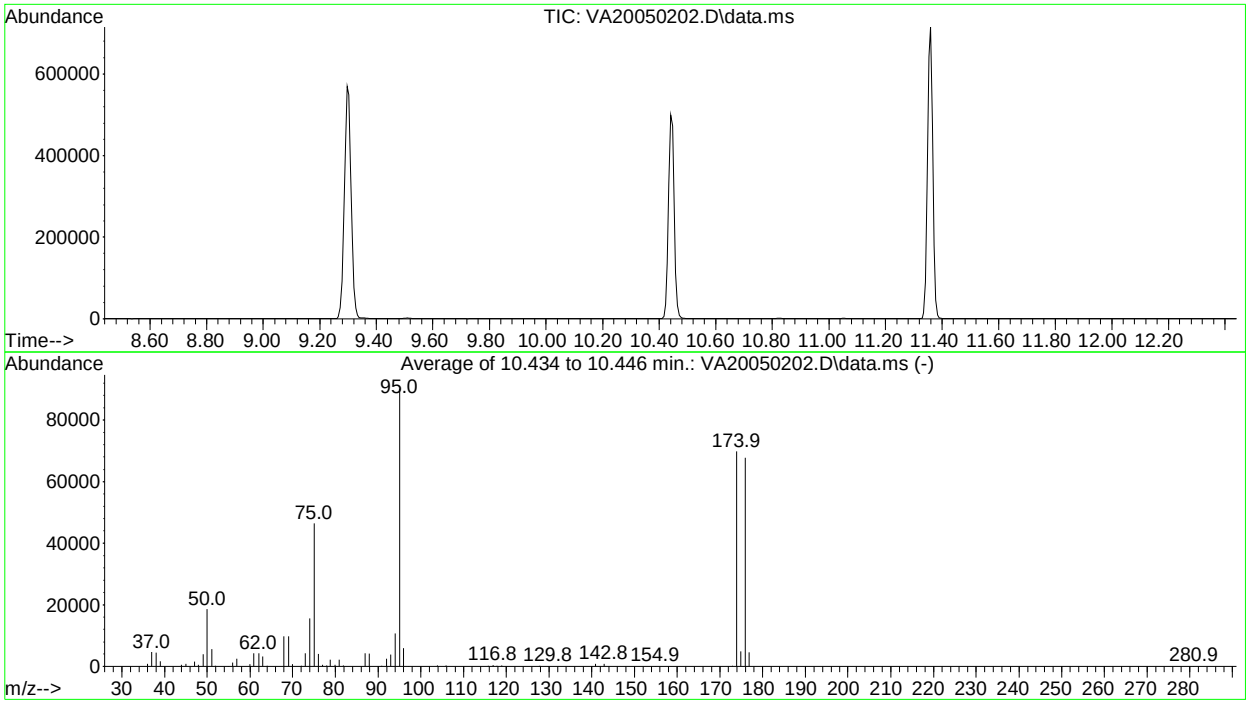
Data Reviewed By: MKZ 5/5/20

5/4/2020 4:47:01PM

Data Path : C:\msdchem\1\DATA\2020-05\0E02003\
Data File : VA20050202.D
Acq On : 2 May 2020 9:59 am
Operator : PS/TNL
Sample : 0E02003-TUN1
Misc : A20C446 5mL BFB (IS/SURR)
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\METHODS\VA200501W.M
Title : EPA 8260C: Volatile Organic Compounds
Last Update : Mon May 04 11:04:43 2020



AutoFind: Scans 1499, 1500, 1501; Background Corrected with Scan 1492

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
95	174	50	200	129.2	90176	PASS
96	95	5	9	6.6	5952	PASS
173	174	0.00	2	0.4	274	PASS
174	95	50	200	77.4	69805	PASS
175	174	5	9	7.2	5029	PASS
176	174	95	105	97.0	67717	PASS
177	176	5	10	6.7	4533	PASS

Quantitation Report (Not Reviewed)

PS 05/04/2020

Data Path : C:\msdchem\1\DATA\2020-05\0E02003\
Data File : VA20050202.D
Acq On : 2 May 2020 9:59 am
Operator : PS/TNL
Sample : 0E02003-TUN1
Misc : A20C446 5mL BFB (IS/SURR)
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 04 12:45:29 2020
Quant Method : C:\msdchem\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Mon May 04 11:04:43 2020
Response via : Initial Calibration

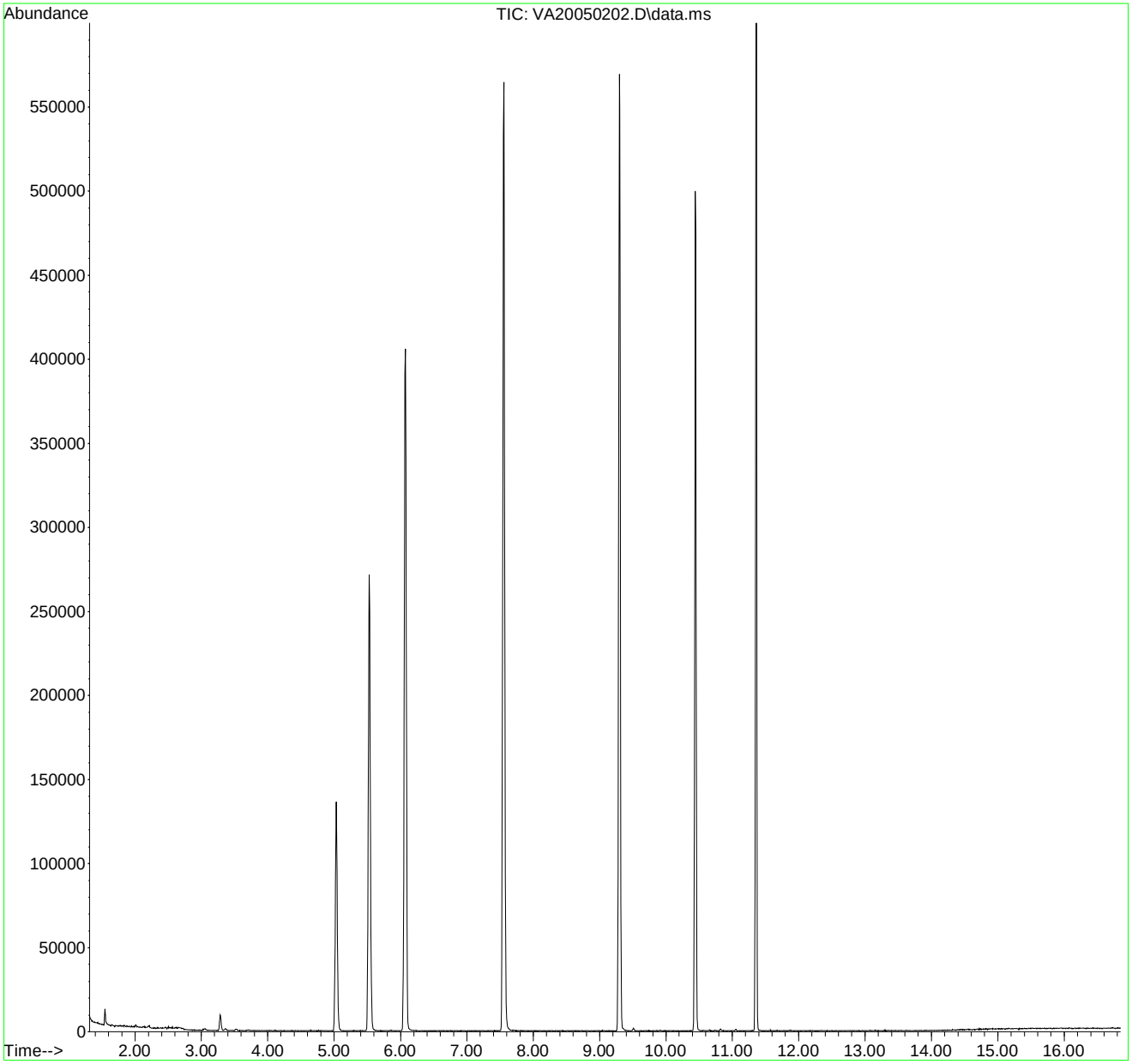
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	5.531	99	111563	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	9.297	117	313443	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	11.359	152	147576	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	5.032	111	91092	48.38	ug/L		0.00
39) 1,4-Difluorobenzene (S)	6.072	114	350600	49.64	ug/L		0.00
48) Toluene-d8 (S)	7.557	98	413045	50.07	ug/L		0.00
67) 4-Bromofluorobenzene (S)	10.446	174	115477	51.16	ug/L		0.00
Target Compounds							Qvalue
8) Ethanol	2.718	45	672	7.73	ug/L		93
14) Methylene Chloride	3.289	84	4051	1.48	ug/L		88
15) Acetone	3.362	43	1544	1.01	ug/L		95
19) tert-Butanol (TBA)	3.697	59	137	0.22	ug/L	#	46
49) Toluene	7.612	91	1183	0.11	ug/L		95
61) m,p-Xylenes (2)	9.510	91	1098	0.13	ug/L		92

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E02003\
Data File : VA20050202.D
Acq On : 2 May 2020 9:59 am
Operator : PS/TNL
Sample : 0E02003-TUN1
Misc : A20C446 5mL BFB (IS/SURR)
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 04 12:45:29 2020
Quant Method : C:\msdchem\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Mon May 04 11:04:43 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E02003\ PS 05/04/2020
Data File : VA20050203.D
Acq On : 2 May 2020 10:27 am
Operator : PS/TNL
Sample : 0050060-BS1
Misc : 1X 5mL A20D392 20-40PPB VOCRO
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 04 12:46:22 2020
Quant Method : C:\msdchem\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Mon May 04 11:04:43 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	5.531	99	113062	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	9.297	117	324968	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	11.359	152	166107	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	5.032	111	98341	51.54	ug/L		0.00
39) 1,4-Difluorobenzene (S)	6.073	114	360392	50.35	ug/L		0.00
48) Toluene-d8 (S)	7.557	98	429274	50.20	ug/L		0.00
67) 4-Bromofluorobenzene (S)	10.447	174	123532	48.63	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.401	85	37827	17.73	ug/L		96
3) Chloromethane	1.584	50	52065	16.09	ug/L		98
4) Vinyl Chloride	1.651	62	58084	17.21	ug/L		94
5) Bromomethane	1.955	96	46113	17.32	ug/L		95
6) Chloroethane	2.065	64	26340	14.74	ug/L		93
7) Trichlorofluoromethane	2.211	101	68432	18.25	ug/L		97
8) Ethanol	2.722	45	107248	1216.61	ug/L		91
9) 1,1-Dichloroethene	2.709	61	64412	18.42	ug/L		99
10) Carbon Disulfide	2.715	76	86861	17.66	ug/L		99
11) Freon 113	2.752	101	34049	18.64	ug/L		92
12) Iodomethane	2.843	142	4248	10.49	ug/L		97
13) Acrolein	3.056	56	12347	20.29	ug/L		85
14) Methylene Chloride	3.287	84	51457	18.51	ug/L		91
15) Acetone	3.354	43	57597	37.18	ug/L		98
16) t-1,2-Dichloroethene	3.439	61	57236	16.79	ug/L		96
17) n-Hexane	3.525	86	9061	19.09	ug/L	#	86
18) Methyl-tert-butyl-ether	3.567	73	147720	18.85	ug/L		99
19) tert-Butanol (TBA)	3.701	59	825477	1284.01	ug/L	#	98
20) Diisopropyl ether (DIPE)	3.950	45	41056	4.71	ug/L		92
21) 1,1-Dichloroethane	4.042	63	80776	17.19	ug/L		98
22) Acrylonitrile	4.102	53	34622	20.61	ug/L		97
23) Vinyl Acetate	4.315	43	98884	21.93	ug/L		96
24) Ethyl-tert-butyl ether...	4.309	59	36249	4.90	ug/L		97
25) c-1,2-Dichloroethene	4.577	61	61557	17.50	ug/L		97
26) 2,2-Dichloropropane	4.680	77	49001	20.32	ug/L		83

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E02003\
Data File : VA20050203.D
Acq On : 2 May 2020 10:27 am
Operator : PS/TNL
Sample : 0050060-BS1
Misc : 1X 5mL A20D392 20-40PPB VOCRO
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 04 12:46:22 2020
Quant Method : C:\msdchem\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Mon May 04 11:04:43 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Bromochloromethane	4.766	49	45093	18.49	ug/L		79
28) Chloroform	4.857	83	71267	18.08	ug/L		98
29) Carbon Tetrachloride	4.972	117	39035	17.05	ug/L		92
30) Tetrahydrofuran	5.014	42	29264	19.36	ug/L		98
31) 1,1,1-Trichloroethane	5.045	97	61364	18.29	ug/L		95
33) 1,1-Dichloropropene	5.172	75	55508	17.02	ug/L		94
34) 2-Butanone (MEK)	5.172	43	102177	39.48	ug/L		96
35) Benzene	5.416	78	184036	16.55	ug/L		99
36) tert-Amyl methyl ether...	5.562	73	30668	4.40	ug/L		94
37) 1,2-Dichloroethane (EDC)	5.629	62	61393	17.39	ug/L		97
38) iso-Butyl Alcohol	5.702	43	166495	511.94	ug/L		96
40) Trichloroethene (TCE)	6.024	130	42040	16.26	ug/L		93
41) tert-Amyl ethyl ether ...	6.304	59	23402	4.58	ug/L		90
42) Dibromomethane	6.468	93	27929	18.36	ug/L		90
43) 1,2-Dichloropropane	6.571	63	50126	16.67	ug/L		91
44) Bromodichloromethane	6.651	83	47698	18.51	ug/L		99
46) 2-Chloroethyl Vinyl Ether	7.301	63	36376	19.06	ug/L	#	1
47) c-1,3-Dichloropropene	7.350	75	64327	18.82	ug/L		100
49) Toluene	7.612	91	187156	16.21	ug/L		99
50) Tetrachloroethene (PCE)	8.056	166	38467	16.70	ug/L		91
51) 4-Methyl-2-Pentanone (...	8.074	43	193012	41.87	ug/L		100
52) t-1,3-Dichloropropene	8.111	75	59740	17.19	ug/L		94
53) 1,1,2-Trichloroethane	8.287	97	44047	18.70	ug/L		99
54) Dibromochloromethane	8.488	129	32857	16.55	ug/L		97
55) 1,3-Dichloropropane	8.603	76	80216	17.21	ug/L		95
56) 1,2-Dibromoethane (EDB)	8.749	107	43410	18.92	ug/L		99
57) 2-Hexanone	9.041	43	146147	41.99	ug/L		98
58) Chlorobenzene	9.315	112	114543	16.03	ug/L		96
59) Ethylbenzene	9.358	91	200988	16.52	ug/L		99
60) 1,1,1,2-Tetrachloroethane	9.388	131	33694	17.05	ug/L		99
61) m,p-Xylenes (2)	9.504	91	295988	33.83	ug/L		97
62) o-Xylene	9.911	91	150561	17.28	ug/L		95
63) Styrene	9.966	104	120422	17.59	ug/L		98
64) Bromoform	9.978	173	21719	17.50	ug/L		98
65) Isopropylbenzene	10.203	105	183748	17.85	ug/L		97
68) Bromobenzene	10.526	156	45830	15.85	ug/L		87
69) n-Propylbenzene	10.562	91	217213	16.43	ug/L		96

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E02003\
Data File : VA20050203.D
Acq On : 2 May 2020 10:27 am
Operator : PS/TNL
Sample : 0050060-BS1
Misc : 1X 5mL A20D392 20-40PPB VOCRO
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 04 12:46:22 2020
Quant Method : C:\msdchem\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Mon May 04 11:04:43 2020
Response via : Initial Calibration

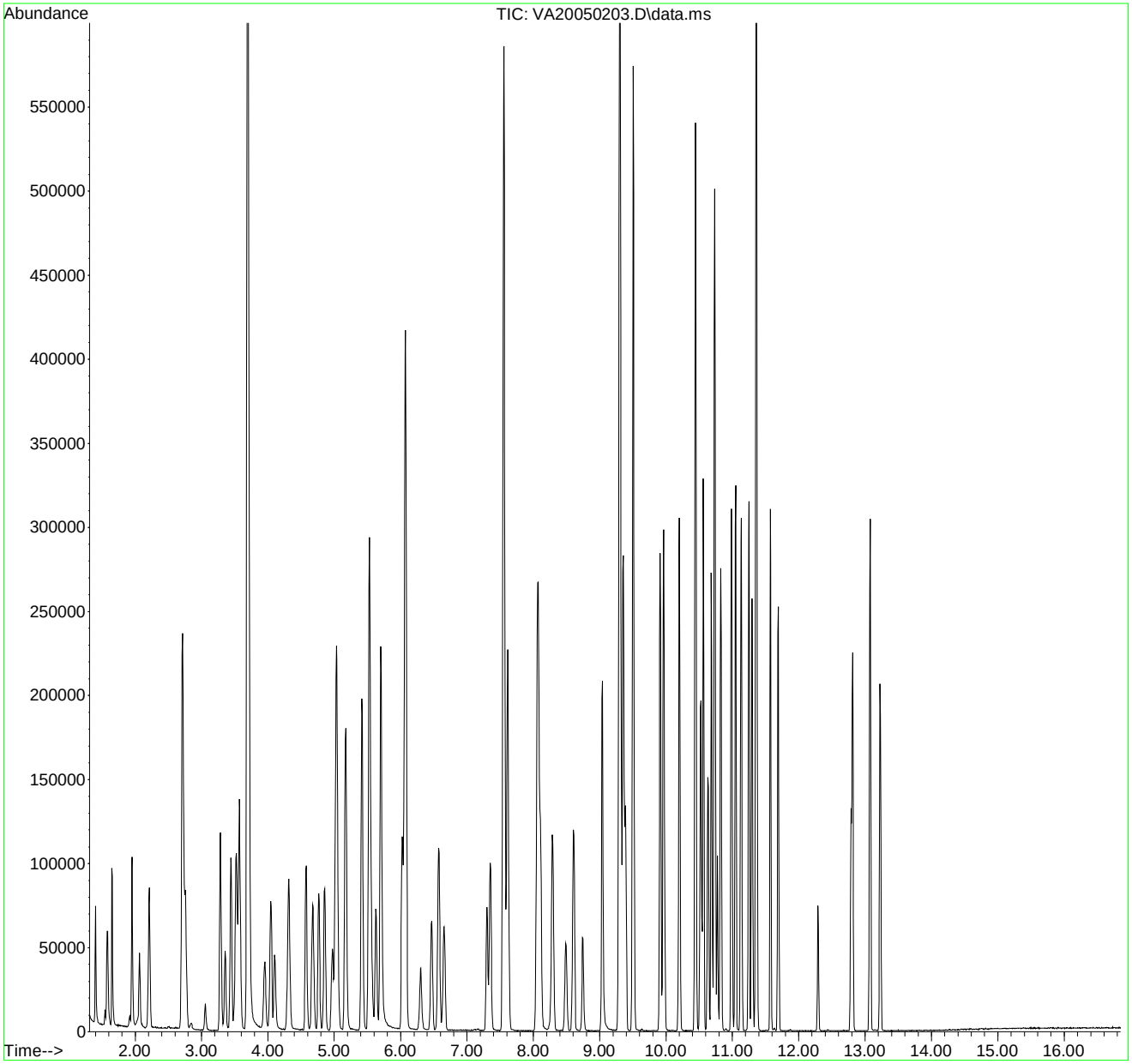
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 1,1,2,2-Tetrachloroethane	10.629	83	67545	18.48	ug/L		96
71) 2-Chlorotoluene	10.684	126	42112	16.27	ug/L		87
72) 1,3,5-Trimethylbenzene	10.733	105	147342	17.26	ug/L		94
73) 1,2,3-Trichloropropane	10.733	110	23087	17.94	ug/L		85
74) t-1,4-Dichloro-2-butene	10.775	88	7219	16.23	ug/L	#	74
75) 4-Chlorotoluene	10.824	91	132433	16.17	ug/L		94
76) tert-Butylbenzene	10.988	91	81084	16.91	ug/L		95
77) 1,2,4-Trimethylbenzene	11.049	105	149528	17.49	ug/L		98
78) sec-Butylbenzene	11.134	105	183850	17.33	ug/L		97
79) 4-Isopropyltoluene	11.250	119	151866	17.55	ug/L		100
80) 1,3-Dichlorobenzene	11.298	146	83740	15.90	ug/L		96
81) 1,4-Dichlorobenzene	11.371	146	86182	15.75	ug/L		97
82) n-Butylbenzene	11.572	91	140497	17.38	ug/L		95
83) 1,2-Dichlorobenzene	11.694	146	82931	16.43	ug/L		97
84) 1,2-Dibromo-3-Chloropr...	12.290	157	14872	17.61	ug/L	#	67
85) Hexachlorobutadiene	12.789	223	12932	18.15	ug/L		98
86) 1,2,4-Trichlorobenzene	12.813	180	56291	16.84	ug/L		94
87) Naphthalene	13.075	128	195138	19.24	ug/L		97
88) 1,2,3-Trichlorobenzene	13.233	180	55991	17.38	ug/L		98

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E02003\
Data File : VA20050203.D
Acq On : 2 May 2020 10:27 am
Operator : PS/TNL
Sample : 0050060-BS1
Misc : 1X 5mL A20D392 20-40PPB VOCRO
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 04 12:46:22 2020
Quant Method : C:\msdchem\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Mon May 04 11:04:43 2020
Response via : Initial Calibration



Evaluate Continuing Calibration Report

PS 05/04/2020

Data Path : C:\msdchem\1\DATA\2020-05\0E02003\
Data File : VA20050203.D
Acq On : 2 May 2020 10:27 am
Operator : PS/TNL
Sample : 0050060-BS1
Misc : 1X 5mL A20D392 20-40PPB VOCRO
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 04 12:46:22 2020
Quant Method : C:\msdchem\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Mon May 04 11:04:43 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)	
1	I	Pentafluorobenzene (I)	50.000	50.000	0.0	102	0.00	
2		Dichlorodifluoromethane	20.000	17.728	11.4	86	0.00	
3	P	Chloromethane	20.000	16.087	19.6	88	0.00	
4	C	Vinyl Chloride	20.000	17.206	14.0	87	0.00	
5		Bromomethane	20.000	17.323	13.4	93	0.00	
6		Chloroethane	20.000	14.740	26.3#	84	-0.02	Q55 EST
7		Trichlorofluoromethane	20.000	18.247	8.8	85	0.00	
8		Ethanol	1250.000	1216.613	2.7	102	0.00	
9	C	1,1-Dichloroethene	20.000	18.422	7.9	93	0.00	
10		Carbon Disulfide	20.000	17.655	11.7	90	0.00	
11		Freon 113	20.000	18.637	6.8	91	0.00	
12		Iodomethane	20.000	10.488	47.6#	50	-0.01	NR
13		Acrolein	20.000	20.291	-1.5	109	0.00	
14		Methylene Chloride	20.000	18.511	7.4	96	0.00	
15		Acetone	40.000	37.175	7.1	96	0.00	
16		t-1,2-Dichloroethene	20.000	16.794	16.0	86	0.00	
17		n-Hexane	20.000	19.086	4.6	96	0.00	
18		Methyl-tert-butyl-ether	20.000	18.855	5.7	97	0.00	
19		tert-Butanol (TBA)	1250.000	1284.005	-2.7	97	0.00	
20		Diisopropyl ether (DIPE)	5.000	4.714	5.7	97	0.00	
21	P	1,1-Dichloroethane	20.000	17.190	14.0	89	0.00	
22		Acrylonitrile	20.000	20.613	-3.1	101	0.00	
23		Vinyl Acetate	20.000	21.934	-9.7	132	0.00	
24		Ethyl-tert-butyl ether (ETB	5.000	4.896	2.1	98	0.00	
25		c-1,2-Dichloroethene	20.000	17.497	12.5	89	0.00	
26		2,2-Dichloropropane	20.000	20.317	-1.6	99	0.00	
27		Bromochloromethane	20.000	18.491	7.5	92	0.00	
28	C	Chloroform	20.000	18.079	9.6	89	0.00	
29		Carbon Tetrachloride	20.000	17.051	14.7	84	0.00	
30		Tetrahydrofuran	20.000	19.362	3.2	98	-0.01	
31		1,1,1-Trichloroethane	20.000	18.286	8.6	87	0.00	
32	S	Dibromofluoromethane (S)	50.000	51.539	-3.1	105	0.00	
33		1,1-Dichloropropene	20.000	17.016	14.9	85	0.00	
34		2-Butanone (MEK)	40.000	39.481	1.3	98	0.00	
35		Benzene	20.000	16.547	17.3	87	0.00	
36		tert-Amyl methyl ether (TAM	5.000	4.403	11.9	93	0.00	
37		1,2-Dichloroethane (EDC)	20.000	17.389	13.1	91	0.00	
38		iso-Butyl Alcohol	500.000	511.938	-2.4	98	-0.02	
39	S	1,4-Difluorobenzene (S)	50.000	50.352	-0.7	103	0.00	
40		Trichloroethene (TCE)	20.000	16.258	18.7	82	-0.01	
41		tert-Amyl ethyl ether (TAEE	5.000	4.576	8.5	92	0.00	

42		Dibromomethane	20.000	18.356	8.2	93	0.00		
43	C	1,2-Dichloropropane	20.000	16.672	16.6	90	0.00		
44		Bromodichloromethane	20.000	18.510	7.4	89	0.00		
45		Chlorobenzene-d5 (I)	50.000	50.000	0.0	103	0.00		
46		2-Chloroethyl Vinyl Ether	20.000	19.064	4.7	92	0.00		
47		c-1,3-Dichloropropene	20.000	18.818	5.9	89	-0.01		
48	S	Toluene-d8 (S)	50.000	50.195	-0.4	103	0.00		
49	C	Toluene	20.000	16.214	18.9	87	0.00		
50		Tetrachloroethene (PCE)	20.000	16.702	16.5	86	0.00		
51		4-Methyl-2-Pentanone (MIBK)	40.000	41.872	-4.7	97	-0.01		
52		t-1,3-Dichloropropene	20.000	17.185	14.1	90	0.00		
53		1,1,2-Trichloroethane	20.000	18.698	6.5	92	0.00		
54		Dibromochloromethane	20.000	16.550	17.2	88	0.00		
55		1,3-Dichloropropane	20.000	17.212	13.9	89	0.00		
56		1,2-Dibromoethane (EDB)	20.000	18.923	5.4	90	0.00		
57		2-Hexanone	40.000	41.988	-5.0	97	-0.02		
58	P	Chlorobenzene	20.000	16.027	19.9	87	0.00		
59	C	Ethylbenzene	20.000	16.523	17.4	86	0.00		
60		1,1,1,2-Tetrachloroethane	20.000	17.048	14.8	85	0.00		
61		m,p-Xylenes (2)	40.000	33.834	15.4	86	0.00		
62		o-Xylene	20.000	17.276	13.6	86	-0.01		
63		Styrene	20.000	17.588	12.1	86	0.00		
64	P	Bromoform	20.000	17.501	12.5	85	0.00		
65		Isopropylbenzene	20.000	17.845	10.8	86	0.00		
66	I	1,4-Dichlorobenzene-d4 (I)	50.000	50.000	0.0	106	0.00		
67	S	4-Bromofluorobenzene (S)	50.000	48.626	2.7	102	0.00		
68		Bromobenzene	20.000	15.854	20.7#	86	0.00	Q55	
69		n-Propylbenzene	20.000	16.434	17.8	86	0.00		
70	P	1,1,2,2-Tetrachloroethane	20.000	18.483	7.6	99	0.00		
71		2-Chlorotoluene	20.000	16.266	18.7	85	0.00		
72		1,3,5-Trimethylbenzene	20.000	17.260	13.7	87	0.00		
73		1,2,3-Trichloropropane	20.000	17.941	10.3	91	0.00		
74		t-1,4-Dichloro-2-butene	20.000	16.228	18.9	92	0.00		
75		4-Chlorotoluene	20.000	16.165	19.2	86	0.00		
76		tert-Butylbenzene	20.000	16.913	15.4	86	0.00		
77		1,2,4-Trimethylbenzene	20.000	17.492	12.5	88	0.00		
78		sec-Butylbenzene	20.000	17.327	13.4	86	0.00		
79		4-Isopropyltoluene	20.000	17.554	12.2	86	0.00		
80		1,3-Dichlorobenzene	20.000	15.903	20.5#	86	0.00	Q55	OK TB 5/4/20
81		1,4-Dichlorobenzene	20.000	15.750	21.3#	85	0.00	Q55	
82		n-Butylbenzene	20.000	17.379	13.1	87	0.00		
83		1,2-Dichlorobenzene	20.000	16.432	17.8	86	0.00		
84		1,2-Dibromo-3-Chloropropane	20.000	17.606	12.0	92	0.00		
85		Hexachlorobutadiene	20.000	18.152	9.2	90	0.00		
86		1,2,4-Trichlorobenzene	20.000	16.835	15.8	89	0.00		
87		Naphthalene	20.000	19.235	3.8	90	0.00		
88		1,2,3-Trichlorobenzene	20.000	17.383	13.1	90	0.00		

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

VA200501W.M Mon May 04 12:47:59 2020

Quantitation Report (QT Reviewed)

PS 05/04/2020

Data Path : C:\msdchem\1\DATA\2020-05\0E02003\
Data File : VA20050203.D
Acq On : 2 May 2020 10:27 am
Operator : PS/TNL
Sample : 0050060-BS1
Misc : 1X 5mL A20D392 20-40PPB VOCRO
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 04 12:46:22 2020
Quant Method : C:\msdchem\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Mon May 04 11:04:43 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	5.531	99	113062	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	9.297	117	324968	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	11.359	152	166107	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	5.032	111	98341	51.54	ug/L		0.00
39) 1,4-Difluorobenzene (S)	6.073	114	360392	50.35	ug/L		0.00
48) Toluene-d8 (S)	7.557	98	429274	50.20	ug/L		0.00
67) 4-Bromofluorobenzene (S)	10.447	174	123532	48.63	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.401	85	37827	17.73	ug/L		96
3) Chloromethane	1.584	50	52065	16.09	ug/L		98
4) Vinyl Chloride	1.651	62	58084	17.21	ug/L		94
5) Bromomethane	1.955	96	46113	17.32	ug/L		95
6) Chloroethane	2.065	64	26340	14.74	ug/L		93
7) Trichlorofluoromethane	2.211	101	68432	18.25	ug/L		97
8) Ethanol	2.722	45	107248	1216.61	ug/L		91
9) 1,1-Dichloroethene	2.709	61	64412	18.42	ug/L		99
10) Carbon Disulfide	2.715	76	86861	17.66	ug/L		99
11) Freon 113	2.752	101	34049	18.64	ug/L		92
12) Iodomethane	2.843	142	4248	10.49	ug/L		97
13) Acrolein	3.056	56	12347	20.29	ug/L		85
14) Methylene Chloride	3.287	84	51457	18.51	ug/L		91
15) Acetone	3.354	43	57597	37.18	ug/L		98
16) t-1,2-Dichloroethene	3.439	61	57236	16.79	ug/L		96
17) n-Hexane	3.525	86	9061	19.09	ug/L	#	86
18) Methyl-tert-butyl-ether	3.567	73	147720	18.85	ug/L		99
19) tert-Butanol (TBA)	3.701	59	825477	1284.01	ug/L	#	98
20) Diisopropyl ether (DIPE)	3.950	45	41056	4.71	ug/L		92
21) 1,1-Dichloroethane	4.042	63	80776	17.19	ug/L		98
22) Acrylonitrile	4.102	53	34622	20.61	ug/L		97
23) Vinyl Acetate	4.315	43	98884	21.93	ug/L		96
24) Ethyl-tert-butyl ether...	4.309	59	36249	4.90	ug/L		97
25) c-1,2-Dichloroethene	4.577	61	61557	17.50	ug/L		97
26) 2,2-Dichloropropane	4.680	77	49001	20.32	ug/L		83

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E02003\
Data File : VA20050203.D
Acq On : 2 May 2020 10:27 am
Operator : PS/TNL
Sample : 0050060-BS1
Misc : 1X 5mL A20D392 20-40PPB VOCRO
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 04 12:46:22 2020
Quant Method : C:\msdchem\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Mon May 04 11:04:43 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Bromochloromethane	4.766	49	45093	18.49	ug/L		79
28) Chloroform	4.857	83	71267	18.08	ug/L		98
29) Carbon Tetrachloride	4.972	117	39035	17.05	ug/L		92
30) Tetrahydrofuran	5.014	42	29264	19.36	ug/L		98
31) 1,1,1-Trichloroethane	5.045	97	61364	18.29	ug/L		95
33) 1,1-Dichloropropene	5.172	75	55508	17.02	ug/L		94
34) 2-Butanone (MEK)	5.172	43	102177	39.48	ug/L		96
35) Benzene	5.416	78	184036	16.55	ug/L		99
36) tert-Amyl methyl ether...	5.562	73	30668	4.40	ug/L		94
37) 1,2-Dichloroethane (EDC)	5.629	62	61393	17.39	ug/L		97
38) iso-Butyl Alcohol	5.702	43	166495	511.94	ug/L		96
40) Trichloroethene (TCE)	6.024	130	42040	16.26	ug/L		93
41) tert-Amyl ethyl ether ...	6.304	59	23402	4.58	ug/L		90
42) Dibromomethane	6.468	93	27929	18.36	ug/L		90
43) 1,2-Dichloropropane	6.571	63	50126	16.67	ug/L		91
44) Bromodichloromethane	6.651	83	47698	18.51	ug/L		99
46) 2-Chloroethyl Vinyl Ether	7.301	63	36376	19.06	ug/L	#	1
47) c-1,3-Dichloropropene	7.350	75	64327	18.82	ug/L		100
49) Toluene	7.612	91	187156	16.21	ug/L		99
50) Tetrachloroethene (PCE)	8.056	166	38467	16.70	ug/L		91
51) 4-Methyl-2-Pentanone (...	8.074	43	193012	41.87	ug/L		100
52) t-1,3-Dichloropropene	8.111	75	59740	17.19	ug/L		94
53) 1,1,2-Trichloroethane	8.287	97	44047	18.70	ug/L		99
54) Dibromochloromethane	8.488	129	32857	16.55	ug/L		97
55) 1,3-Dichloropropane	8.603	76	80216	17.21	ug/L		95
56) 1,2-Dibromoethane (EDB)	8.749	107	43410	18.92	ug/L		99
57) 2-Hexanone	9.041	43	146147	41.99	ug/L		98
58) Chlorobenzene	9.315	112	114543	16.03	ug/L		96
59) Ethylbenzene	9.358	91	200988	16.52	ug/L		99
60) 1,1,1,2-Tetrachloroethane	9.388	131	33694	17.05	ug/L		99
61) m,p-Xylenes (2)	9.504	91	295988	33.83	ug/L		97
62) o-Xylene	9.911	91	150561	17.28	ug/L		95
63) Styrene	9.966	104	120422	17.59	ug/L		98
64) Bromoform	9.978	173	21719	17.50	ug/L		98
65) Isopropylbenzene	10.203	105	183748	17.85	ug/L		97
68) Bromobenzene	10.526	156	45830	15.85	ug/L		87
69) n-Propylbenzene	10.562	91	217213	16.43	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E02003\
Data File : VA20050203.D
Acq On : 2 May 2020 10:27 am
Operator : PS/TNL
Sample : 0050060-BS1
Misc : 1X 5mL A20D392 20-40PPB VOCRO
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 04 12:46:22 2020
Quant Method : C:\msdchem\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Mon May 04 11:04:43 2020
Response via : Initial Calibration

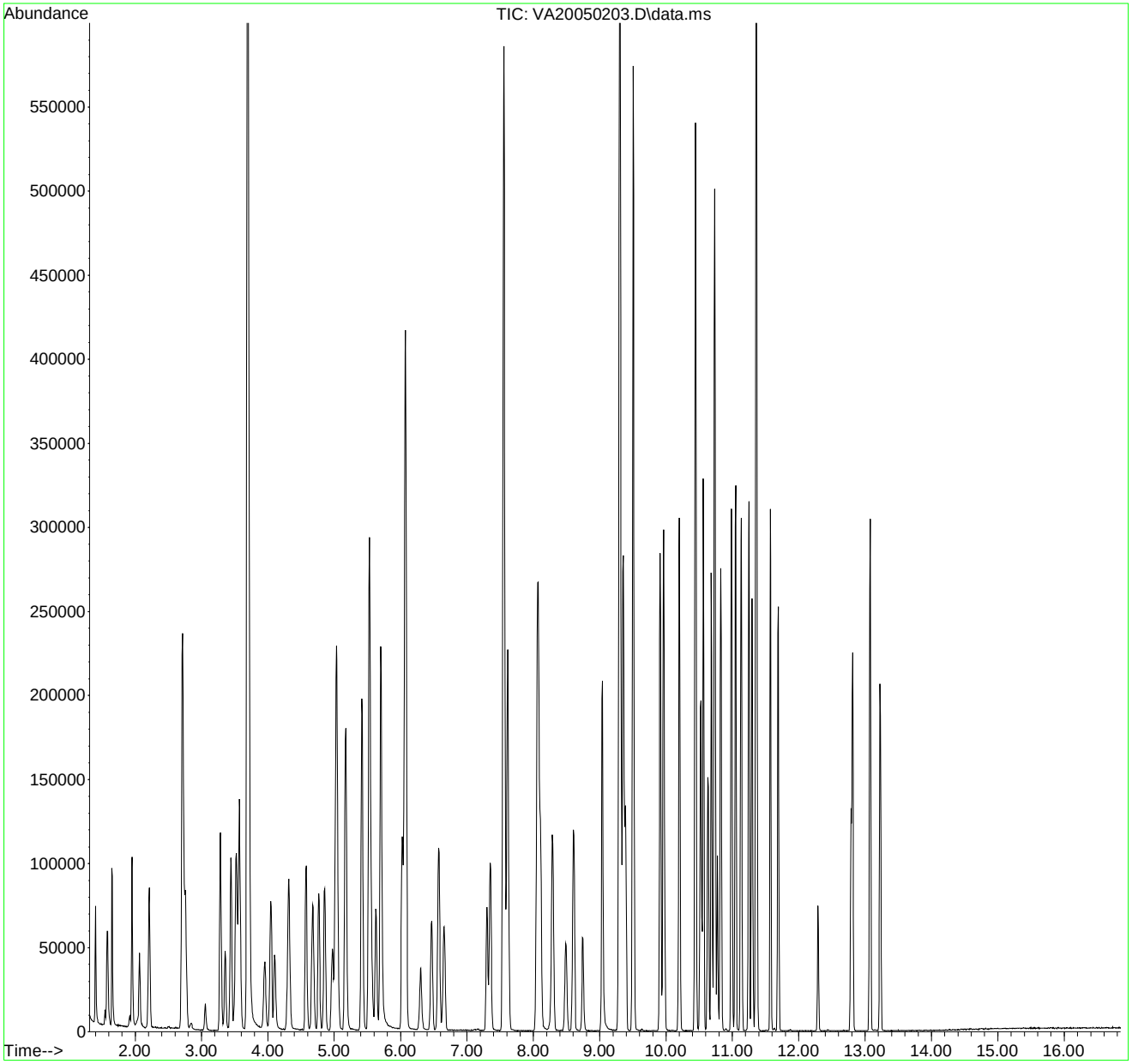
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 1,1,2,2-Tetrachloroethane	10.629	83	67545	18.48	ug/L		96
71) 2-Chlorotoluene	10.684	126	42112	16.27	ug/L		87
72) 1,3,5-Trimethylbenzene	10.733	105	147342	17.26	ug/L		94
73) 1,2,3-Trichloropropane	10.733	110	23087	17.94	ug/L		85
74) t-1,4-Dichloro-2-butene	10.775	88	7219	16.23	ug/L	#	74
75) 4-Chlorotoluene	10.824	91	132433	16.17	ug/L		94
76) tert-Butylbenzene	10.988	91	81084	16.91	ug/L		95
77) 1,2,4-Trimethylbenzene	11.049	105	149528	17.49	ug/L		98
78) sec-Butylbenzene	11.134	105	183850	17.33	ug/L		97
79) 4-Isopropyltoluene	11.250	119	151866	17.55	ug/L		100
80) 1,3-Dichlorobenzene	11.298	146	83740	15.90	ug/L		96
81) 1,4-Dichlorobenzene	11.371	146	86182	15.75	ug/L		97
82) n-Butylbenzene	11.572	91	140497	17.38	ug/L		95
83) 1,2-Dichlorobenzene	11.694	146	82931	16.43	ug/L		97
84) 1,2-Dibromo-3-Chloropr...	12.290	157	14872	17.61	ug/L	#	67
85) Hexachlorobutadiene	12.789	223	12932	18.15	ug/L		98
86) 1,2,4-Trichlorobenzene	12.813	180	56291	16.84	ug/L		94
87) Naphthalene	13.075	128	195138	19.24	ug/L		97
88) 1,2,3-Trichlorobenzene	13.233	180	55991	17.38	ug/L		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E02003\
Data File : VA20050203.D
Acq On : 2 May 2020 10:27 am
Operator : PS/TNL
Sample : 0050060-BS1
Misc : 1X 5mL A20D392 20-40PPB VOCRO
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 04 12:46:22 2020
Quant Method : C:\msdchem\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Mon May 04 11:04:43 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

PS 05/04/2020

Data Path : C:\msdchem\1\DATA\2020-05\0E02003\
Data File : VA20050204.D
Acq On : 2 May 2020 10:54 am
Operator : PS/TNL
Sample : 0050060-BS2
Misc : 1X 5mL 0.1 PPB VOCRO
ALS Vial : 4 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 04 12:49:12 2020
Quant Method : C:\msdchem\1\METHODS\VA200501G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Sat May 02 09:48:06 2020
Response via : Initial Calibration

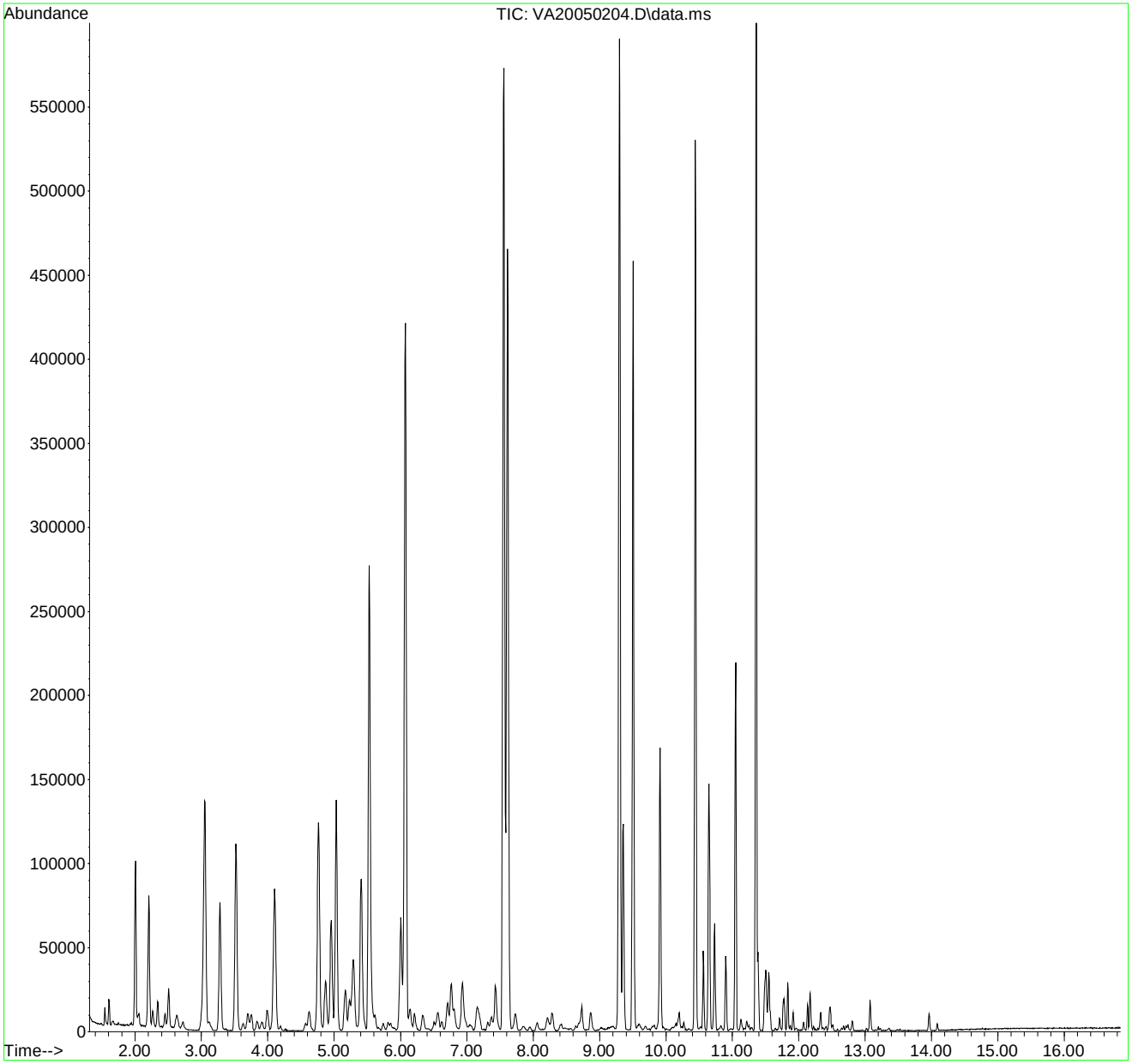
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene (IS)	5.531	168	207230	50.00	ug/L	0.00
System Monitoring Compounds						
2) 1,4-Difluorobenzene (Sur)	6.073	TIC	844441	46.27	ug/L	0.00
3) 4-Bromofluorobenzene (...	10.441	TIC	724958	49.45	ug/L	0.00
4) Chlorobenzene-d5 (NR)	9.297	TIC	1007941	0.00		0.00
10) Toluene-d8 (NR)	7.557	TIC	1196935	0.00		0.00
12) 1,4-Dichlorobenzene-d4...	11.359	TIC	962975	0.00		0.00
Target Compounds						Qvalue
5) CA-LUFT (C5-C12)	7.253	TIC	6728520m	521.06	ug/L	
6) TPHg (C5-C9)	6.247	TIC	5654593m	537.04	ug/L	
7) TPHg (C6-C10)	6.928	TIC	4837625m	535.38	ug/L	
8) NWTPH-Gx	9.261	TIC	4327687m	498.44	ug/L	

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E02003\
Data File : VA20050204.D
Acq On : 2 May 2020 10:54 am
Operator : PS/TNL
Sample : 0050060-BS2
Misc : 1X 5mL 0.1 PPB VOCRO
ALS Vial : 4 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 04 12:49:12 2020
Quant Method : C:\msdchem\1\METHODS\VA200501G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Sat May 02 09:48:06 2020
Response via : Initial Calibration

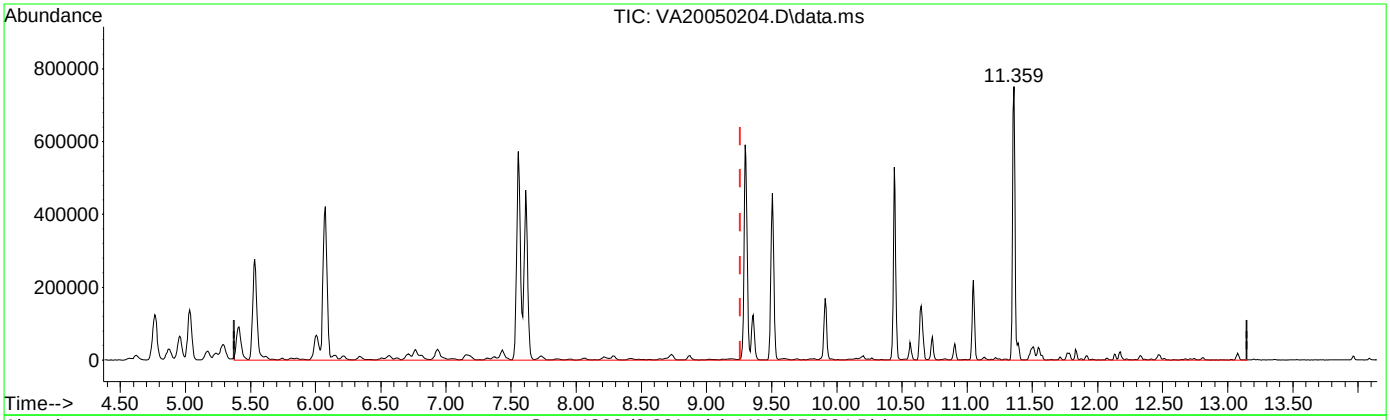


Quantitation Report (Qedit)

PS 05/04/2020

Data Path : C:\msdchem\1\DATA\2020-05\0E02003\
Data File : VA20050204.D
Acq On : 2 May 2020 10:54 am
Operator : PS/TNL
Sample : 0050060-BS2
Misc : 1X 5mL 0.1 PPB VOCRO
ALS Vial : 4 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 04 12:49:12 2020
Quant Method : C:\msdchem\1\METHODS\VA200501G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Sat May 02 09:48:06 2020
Response via : Initial Calibration



TIC: VA20050204.D\data.ms

(8) NWTPH-Gx (H)

9.261min (0.000) 498.44 ug/L m

response 4327687

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.02#
0.00	0.00	0.02#
0.00	0.00	0.00

VA200501G.M Mon May 04 12:49:55 2020 Page: 1

Evaluate Continuing Calibration Report

PS 05/04/2020

Data Path : C:\msdchem\1\DATA\2020-05\0E02003\
Data File : VA20050204.D
Acq On : 2 May 2020 10:54 am
Operator : PS/TNL
Sample : 0050060-BS2
Misc : 1X 5mL 0.1 PPB VOCRO
ALS Vial : 4 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 04 12:49:12 2020
Quant Method : C:\msdchem\1\METHODS\VA200501G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Sat May 02 09:48:06 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene (IS)	50.000	50.000	0.0	104	0.00
2	S	1,4-Difluorobenzene (Sur)	50.000	46.267	7.5	103	0.00
3	S	4-Bromofluorobenzene (Sur)	50.000	49.454	1.1	102	0.00
4	S	Chlorobenzene-d5 (NR)	-1.000	0.000	0.0	103	0.00
5	H	CA-LUFT (C5-C12)	500.000	521.055	-4.2	115	0.00
6	H	TPHg (C5-C9)	500.000	537.043	-7.4	117	0.00
7	H	TPHg (C6-C10)	500.000	535.383	-7.1	117	0.00
8	H	NWTPH-Gx	500.000	498.435	0.3	110	0.00
9		Benzene (NR)	-1.000	0.000	0.0	102	0.00
10	S	Toluene-d8 (NR)	-1.000	0.000	0.0	103	0.00
11	C	Toluene (NR)	-1.000	0.000	0.0	102	0.00
12	S	1,4-Dichlorobenzene-d4 (NR)	-1.000	0.000	0.0	100	0.00
13		Naphthalene (NR)	-1.000	0.000	0.0	114	0.00

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

VA200501G.M Mon May 04 12:50:01 2020

Quantitation Report (Not Reviewed)

PS 05/04/2020

Data Path : C:\msdchem\1\DATA\2020-05\0E02003\
Data File : VA20050205.D
Acq On : 2 May 2020 11:22 am
Operator : PS/TNL
Sample : 0050060-BLK1
Misc : 1X 5mL DI
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 04 12:50:12 2020
Quant Method : C:\msdchem\1\METHODS\VA200501G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Sat May 02 09:48:06 2020
Response via : Initial Calibration

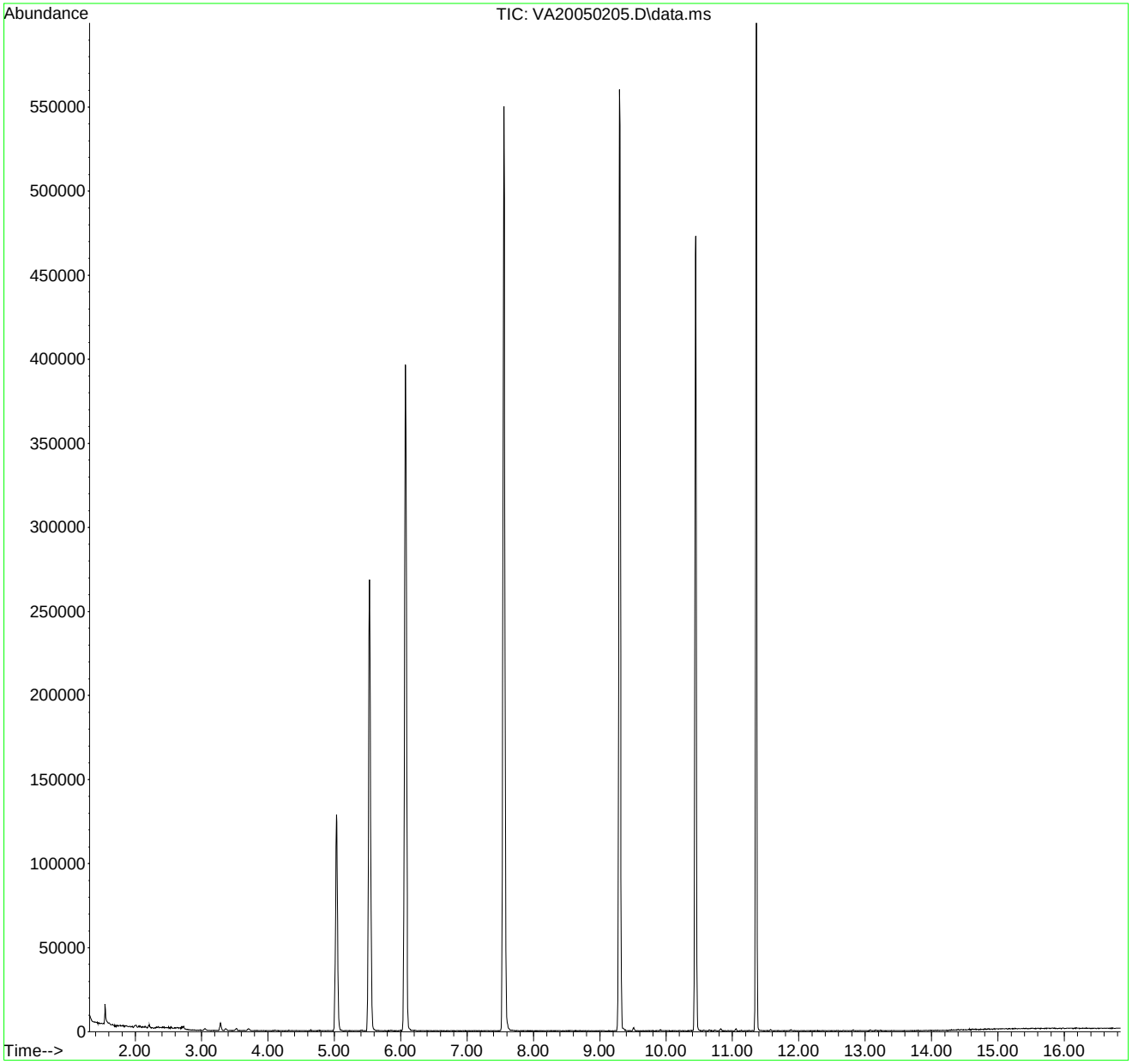
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene (IS)	5.530	168	198413	50.00	ug/L	0.00
System Monitoring Compounds						
2) 1,4-Difluorobenzene (Sur)	6.072	TIC	795821	45.54	ug/L	0.00
3) 4-Bromofluorobenzene (...	10.446	TIC	678106	48.31	ug/L	0.00
4) Chlorobenzene-d5 (NR)	9.296	TIC	935268	0.00		0.00
10) Toluene-d8 (NR)	7.556	TIC	1100440	0.00		0.00
12) 1,4-Dichlorobenzene-d4...	11.358	TIC	882256	0.00		0.00
Target Compounds						Qvalue
5) CA-LUFT (C5-C12)	7.253	TIC	349481m	16.82	ug/L	
6) TPHg (C5-C9)	6.247	TIC	336155m	13.56	ug/L	
7) TPHg (C6-C10)	6.928	TIC	309472m	16.06	ug/L	
8) NWTPH-Gx	9.261	TIC	26133m	19.62	ug/L	

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E02003\
Data File : VA20050205.D
Acq On : 2 May 2020 11:22 am
Operator : PS/TNL
Sample : 0050060-BLK1
Misc : 1X 5mL DI
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 04 12:50:12 2020
Quant Method : C:\msdchem\1\METHODS\VA200501G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Sat May 02 09:48:06 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

PS 05/04/2020

Data Path : C:\msdchem\1\DATA\2020-05\0E02003\
Data File : VA20050205.D
Acq On : 2 May 2020 11:22 am
Operator : PS/TNL
Sample : 0050060-BLK1
Misc : 1X 5mL DI
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 04 12:51:23 2020
Quant Method : C:\msdchem\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Mon May 04 11:04:43 2020
Response via : Initial Calibration

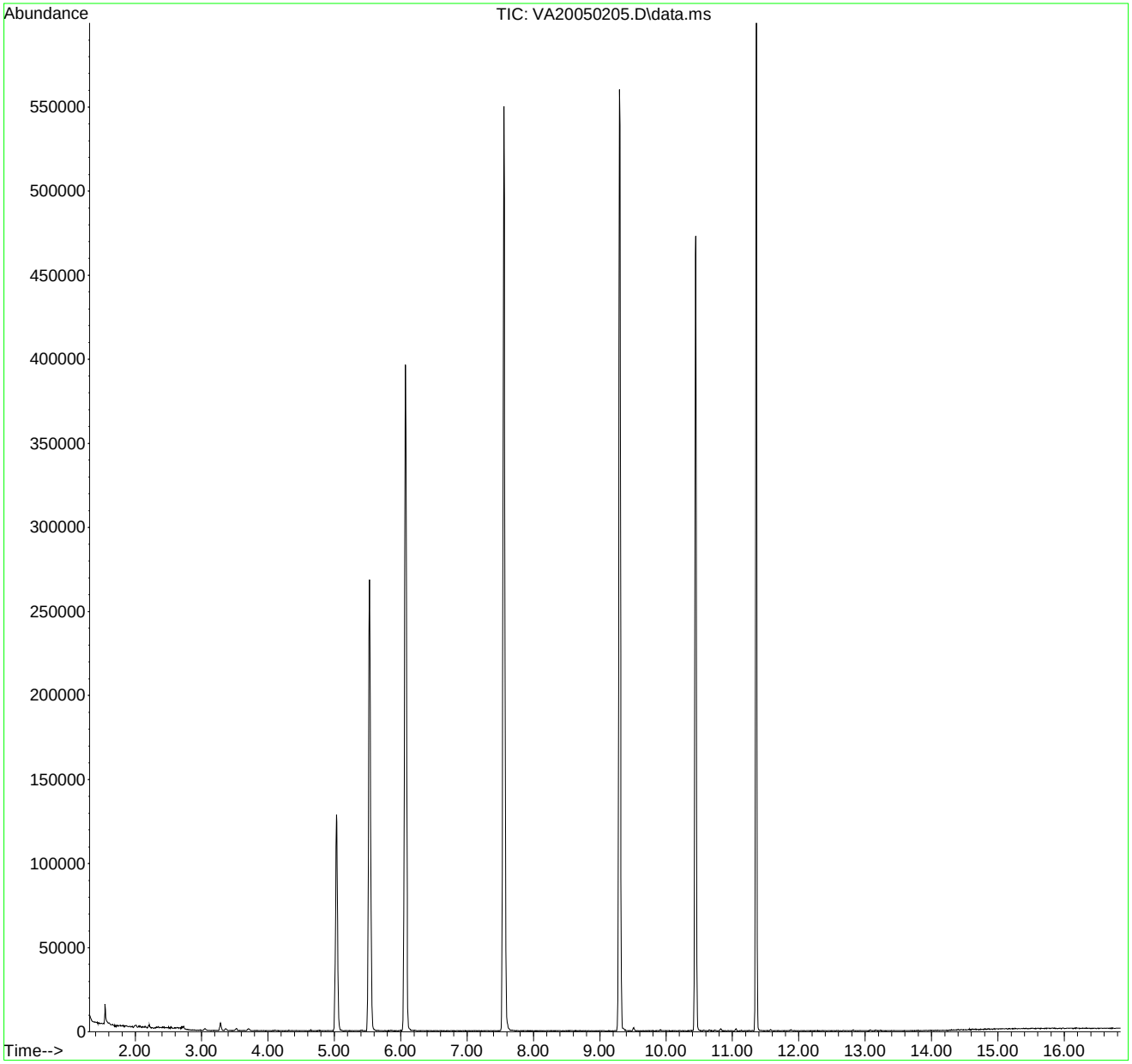
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	5.530	99	108522	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	9.296	117	306266	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	11.358	152	142319	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	5.032	111	88641	48.40	ug/L		0.00
39) 1,4-Difluorobenzene (S)	6.072	114	341676	49.73	ug/L		0.00
48) Toluene-d8 (S)	7.556	98	403963	50.12	ug/L		0.00
67) 4-Bromofluorobenzene (S)	10.446	174	112973	51.90	ug/L		0.00
Target Compounds							Qvalue
8) Ethanol	2.727	45	265	3.13	ug/L	#	29
14) Methylene Chloride	3.286	84	1775	0.67	ug/L		86
15) Acetone	3.359	43	1761	1.18	ug/L		84
19) tert-Butanol (TBA)	3.712	59	1206	1.95	ug/L	#	50
49) Toluene	7.611	91	1407	0.13	ug/L		85
61) m,p-Xylenes (2)	9.509	91	1443	0.18	ug/L		91
77) 1,2,4-Trimethylbenzene	11.048	105	767	0.10	ug/L		93

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E02003\
Data File : VA20050205.D
Acq On : 2 May 2020 11:22 am
Operator : PS/TNL
Sample : 0050060-BLK1
Misc : 1X 5mL DI
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 04 12:51:23 2020
Quant Method : C:\msdchem\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Mon May 04 11:04:43 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed) PS 05/04/2020

Data Path : C:\msdchem\1\DATA\2020-05\0E02003\
Data File : VA20050205.D
Acq On : 2 May 2020 11:22 am
Operator : PS/TNL
Sample : 0050060-BLK1
Misc : 1X 5mL DI
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 04 12:52:12 2020
Quant Method : C:\msdchem\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Mon May 04 11:04:43 2020
Response via : Initial Calibration

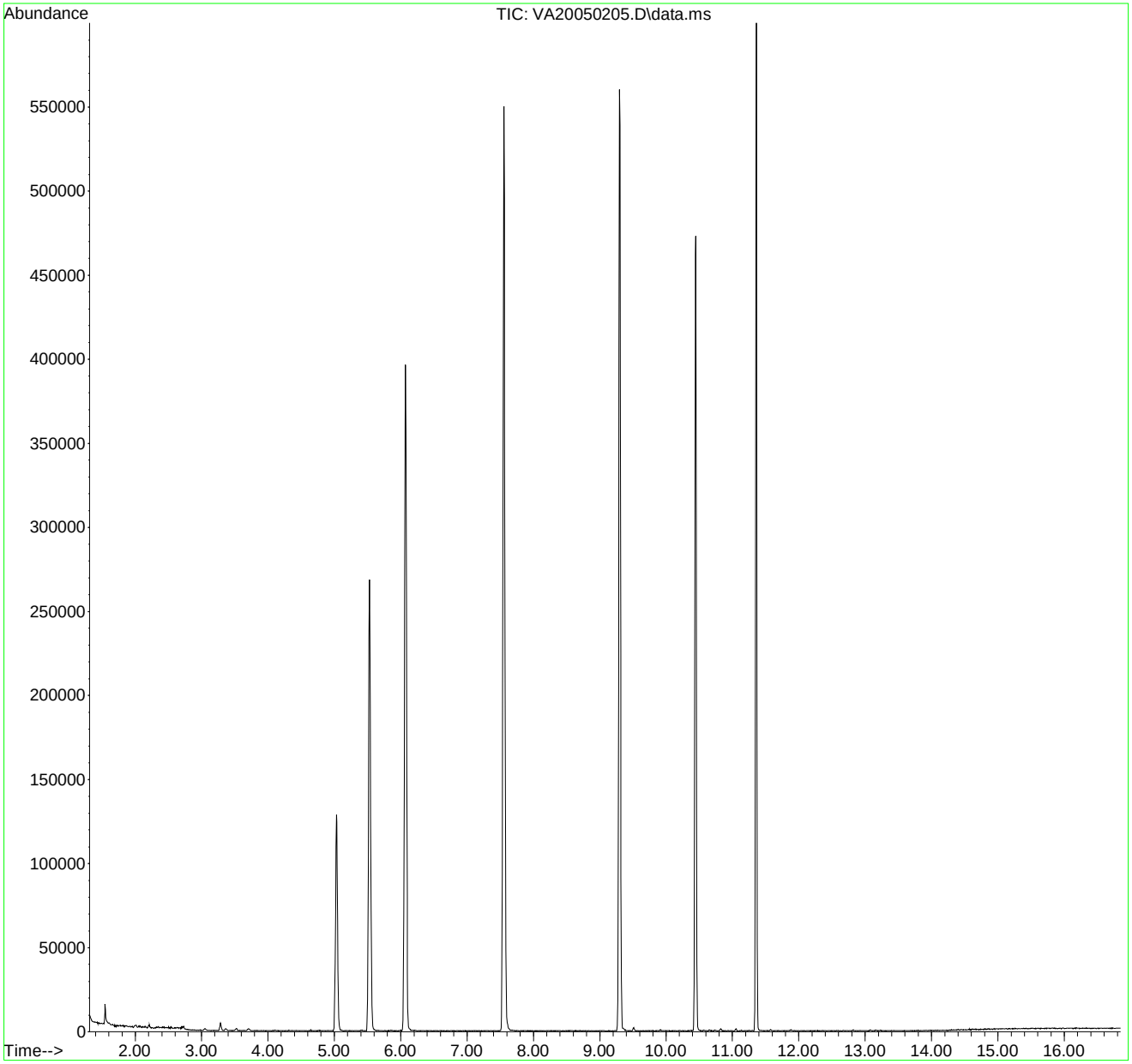
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	5.530	99	108522	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	9.296	117	306266	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	11.358	152	142319	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	5.032	111	88641	48.40	ug/L		0.00
39) 1,4-Difluorobenzene (S)	6.072	114	341676	49.73	ug/L		0.00
48) Toluene-d8 (S)	7.556	98	403963	50.12	ug/L		0.00
67) 4-Bromofluorobenzene (S)	10.446	174	112973	51.90	ug/L		0.00
Target Compounds							Qvalue
14) Methylene Chloride	3.286	84	1775	0.67	ug/L		86
15) Acetone	3.359	43	1761	1.18	ug/L		84
19) tert-Butanol (TBA)	3.712	59	1206	1.95	ug/L	#	50
49) Toluene	7.611	91	1407	0.13	ug/L		85
61) m,p-Xylenes (2)	9.509	91	1443	0.18	ug/L		91
77) 1,2,4-Trimethylbenzene	11.048	105	767	0.10	ug/L		93

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E02003\
Data File : VA20050205.D
Acq On : 2 May 2020 11:22 am
Operator : PS/TNL
Sample : 0050060-BLK1
Misc : 1X 5mL DI
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 04 12:52:12 2020
Quant Method : C:\msdchem\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Mon May 04 11:04:43 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

PS 05/04/2020

Data Path : C:\msdchem\1\DATA\2020-05\0E02003\
Data File : VA20050207.D
Acq On : 2 May 2020 12:22 pm
Operator : PS/TNL
Sample : A0D0782-01
Misc : 1X 5mL BTEX+HALO6 TB
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 04 13:03:34 2020
Quant Method : C:\msdchem\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Mon May 04 11:04:43 2020
Response via : Initial Calibration

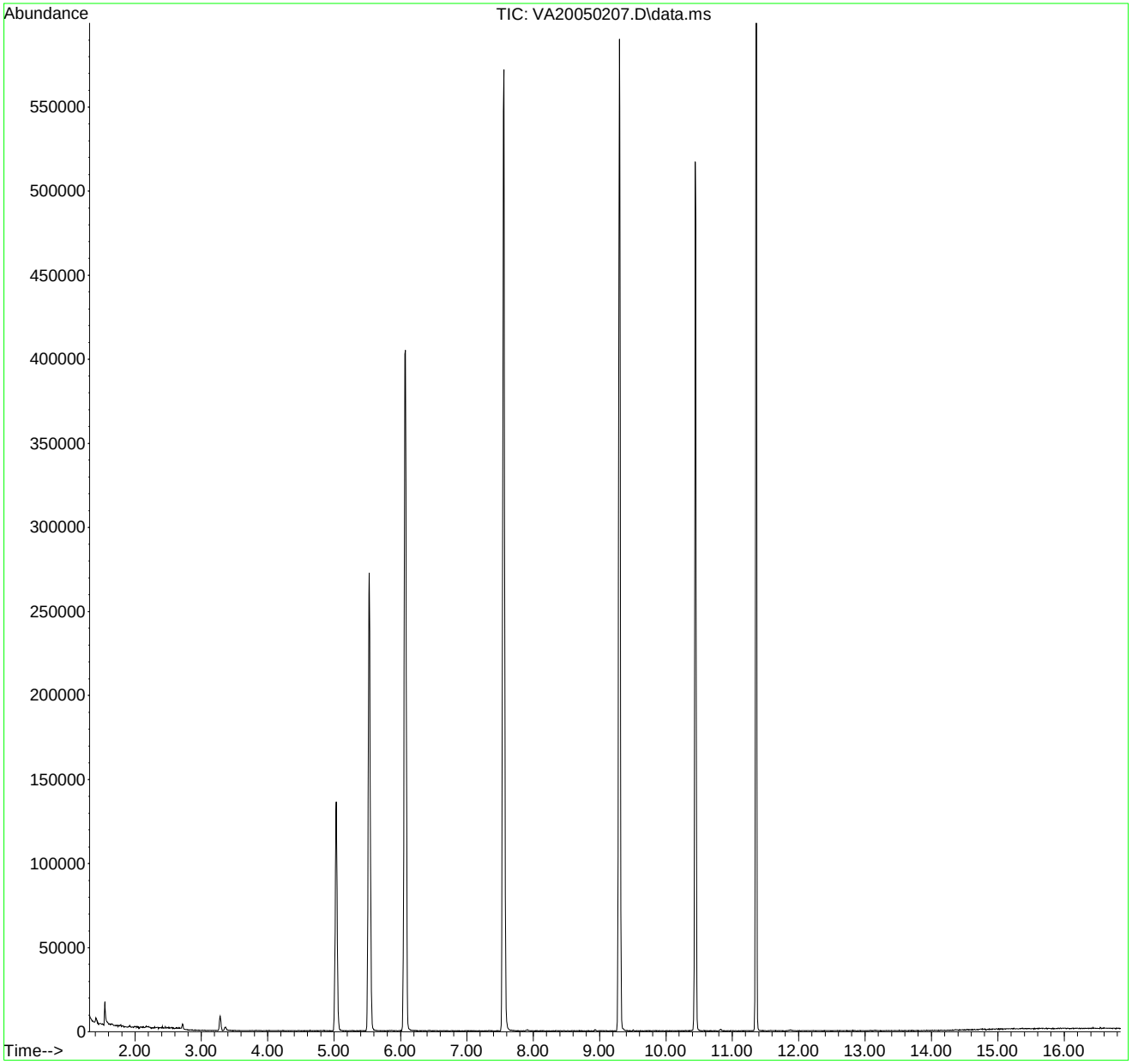
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene (I)	5.531	99	111142	50.00	ug/L	0.00
45) Chlorobenzene-d5 (I)	9.297	117	318799	50.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4...	11.359	152	152025	50.00	ug/L	0.00
System Monitoring Compounds						
32) Dibromofluoromethane (S)	5.032	111	90015	47.99	ug/L	0.00
39) 1,4-Difluorobenzene (S)	6.073	114	354933	50.45	ug/L	0.00
48) Toluene-d8 (S)	7.557	98	419909	50.05	ug/L	0.00
67) 4-Bromofluorobenzene (S)	10.447	174	117294	50.45	ug/L	0.00
Target Compounds						Qvalue
8) Ethanol	2.718	45	834	9.62	ug/L	97
14) Methylene Chloride	3.284	84	3115	1.14	ug/L	91
15) Acetone	3.363	43	3551	2.33	ug/L	97

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E02003\
Data File : VA20050207.D
Acq On : 2 May 2020 12:22 pm
Operator : PS/TNL
Sample : A0D0782-01
Misc : 1X 5mL BTEX+HALO6 TB
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 04 13:03:34 2020
Quant Method : C:\msdchem\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Mon May 04 11:04:43 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

PS 05/04/2020

Data Path : C:\msdchem\1\DATA\2020-05\0E02003\
Data File : VA20050207.D
Acq On : 2 May 2020 12:22 pm
Operator : PS/TNL
Sample : A0D0782-01
Misc : 1X 5mL BTEX+HALO6 TB
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 04 13:03:34 2020
Quant Method : C:\msdchem\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Mon May 04 11:04:43 2020
Response via : Initial Calibration

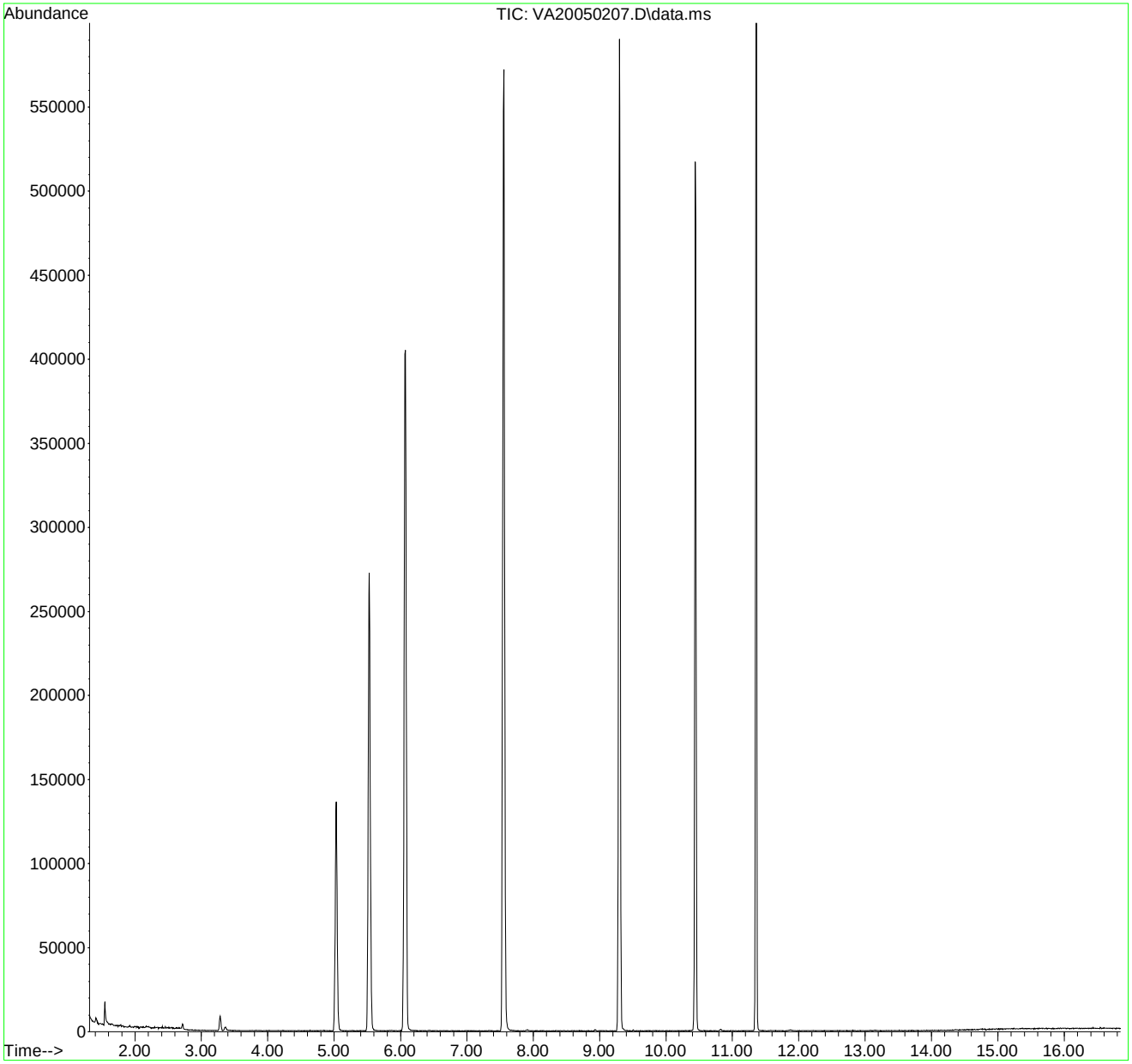
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene (I)	5.531	99	111142	50.00	ug/L	0.00
45) Chlorobenzene-d5 (I)	9.297	117	318799	50.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4...	11.359	152	152025	50.00	ug/L	0.00
System Monitoring Compounds						
32) Dibromofluoromethane (S)	5.032	111	90015	47.99	ug/L	0.00
39) 1,4-Difluorobenzene (S)	6.073	114	354933	50.45	ug/L	0.00
48) Toluene-d8 (S)	7.557	98	419909	50.05	ug/L	0.00
67) 4-Bromofluorobenzene (S)	10.447	174	117294	50.45	ug/L	0.00
Target Compounds						Qvalue
8) Ethanol	2.718	45	834	9.62	ug/L	97
14) Methylene Chloride	3.284	84	3115	1.14	ug/L	91
15) Acetone	3.363	43	3551	2.33	ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E02003\
Data File : VA20050207.D
Acq On : 2 May 2020 12:22 pm
Operator : PS/TNL
Sample : A0D0782-01
Misc : 1X 5mL BTEX+HALO6 TB
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 04 13:03:34 2020
Quant Method : C:\msdchem\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Mon May 04 11:04:43 2020
Response via : Initial Calibration



APEX LABORATORIES, LLC
6700 SW Sandburg St. Tigard OR 97223 phone 503-718-2323

Selected Volatile Organic Compounds by EPA 5035A/8260C
Calibration Data

Sequence 0E01047 (Cal ID A0E0201) VOA-GCMS1

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0E01047** Instrument: **VOA-GCMS1**

Date: **05/01/20 13:45** Calibration: **A0E0201**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0E01047-IBL1	Water	QC	QC			A20C447	
2	0E01047-IBL2	Water	QC	QC			A20C447	
3	0E01047-TUN1	Water	QC	QC			A20C447	
4	0E01047-ICB1	Water	QC	QC			A20C447	
5	0E01047-CAL1	Water	QC	QC			A20C447	A20D369
6	0E01047-CAL2	Water	QC	QC			A20C447	A20D370
7	0E01047-CAL3	Water	QC	QC			A20C447	A20D371
8	0E01047-CAL4	Water	QC	QC			A20C447	A20D372
9	0E01047-CAL5	Water	QC	QC			A20C447	A20D373
10	0E01047-CAL6	Water	QC	QC			A20C447	A20D374
11	0E01047-CAL7	Water	QC	QC			A20C447	A20D375
12	0E01047-CAL8	Water	QC	QC			A20C447	A20D376
13	0E01047-CAL9	Water	QC	QC			A20C447	A20D377
14	0E01047-IBL3	Water	QC	QC			A20C447	
15	0E01047-CALA	Water	QC	QC			A20C447	A20D378
16	0E01047-IBL4	Water	QC	QC			A20C447	A20A357
17	0E01047-CALB	Water	QC	QC			A20C447	A20D379
18	0E01047-IBL5	Water	QC	QC			A20C447	
19	0E01047-IBL6	Water	QC	QC			A20C447	
20	0E01047-ICV1	Water	QC	QC			A20C447	A20D380
21	0E01047-IBL7	Water	QC	QC			A20C447	
22	0E01047-TUN2	Water	QC	QC			A20C447	
23	0E01047-ICB2	Water	QC	QC			A20C447	
24	0E01047-RES1	Water	QC	QC			A20C447	A19J423
25	0E01047-IBL8	Water	QC	QC			A20C447	
26	0E01047-CALC	Water	QC	QC			A20C447	A20D440
27	0E01047-CALD	Water	QC	QC			A20C447	A20D441
28	0E01047-CALE	Water	QC	QC			A20C447	A20D442
29	0E01047-CALF	Water	QC	QC			A20C447	A20D443
30	0E01047-CALG	Water	QC	QC			A20C447	A20D444
31	0E01047-CALH	Water	QC	QC			A20C447	A20D445
32	0E01047-CALI	Water	QC	QC			A20C447	A20D446
33	0E01047-CALJ	Water	QC	QC			A20C447	A20D447
34	0E01047-ICV2	Water	QC	QC			A20C447	A20A357
35	0E01047-IBL9	Water	QC	QC			A20C447	

Data Entered By: 05/02/20 MJ

Data Reviewed By: MJ 5/2/20

Comments: Critical Est

t-1,3DCP MDL 1 MRL 1

1.0ppb / 2.0ppb

Calibration Status Report VOA-GCMS1

Method Path : \\Voa-gcms1\1\METHODS\
Method File : VA200501W.M
Title : EPA 8260C: Volatile Organic Compounds
Last Update : Sat May 02 09:01:18 2020
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	1	-1	50	C:\msdchem\1\DATA\2020-05\0E01047\VA20050105.D
2	2	0	50	C:\msdchem\1\DATA\2020-05\0E01047\VA20050106.D
3	3	0	50	C:\msdchem\1\DATA\2020-05\0E01047\VA20050107.D
4	4	1	50	C:\msdchem\1\DATA\2020-05\0E01047\VA20050108.D
5	5	2	50	C:\msdchem\1\DATA\2020-05\0E01047\VA20050109.D
6	6	5	50	C:\msdchem\1\DATA\2020-05\0E01047\VA20050110.D
7	7	10	50	C:\msdchem\1\DATA\2020-05\0E01047\VA20050111.D
8	8	20	50	C:\msdchem\1\DATA\2020-05\0E01047\VA20050112.D
9	9	50	50	C:\msdchem\1\DATA\2020-05\0E01047\VA20050113.D
10	10	100	50	C:\msdchem\1\DATA\2020-05\0E01047\VA20050115.D
11	1a	200	50	C:\msdchem\1\DATA\2020-05\0E01047\VA20050117.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	May 02 08:23 2020	May 02 07:42 2020	
2	2	May 02 08:23 2020	May 02 07:44 2020	
3	3	May 02 08:23 2020	May 02 07:47 2020	
4	4	May 02 08:23 2020	May 02 07:37 2020	
5	5	May 02 08:23 2020	May 02 07:37 2020	
6	6	May 02 08:23 2020	May 02 07:37 2020	
7	7	May 02 08:23 2020	May 02 07:37 2020	
8	8	May 02 08:23 2020	May 02 07:37 2020	
9	9	May 02 08:23 2020	May 02 07:37 2020	
10	10	May 02 08:23 2020	May 02 08:14 2020	
11	1a	May 02 08:23 2020	May 02 08:15 2020	

VA200501W.M Sat May 02 09:16:13 2020

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0E01047

Analysis Included
8260D Oxygenates
QC - 624x/8260x All Cpds for Studies

INSTRUMENT SEQUENCE LOG

SampleID	SampleName	Matrix	STDID	ISTD ID	Analyzed
0E01047-TUN1	MS Tune	Water		A20C447	5/1/2020 3:26:00PM
0E01047-ICB1	Initial Cal Blank	Water		A20C447	5/1/2020 3:53:00PM
0E01047-CAL1	Cal Standard	Water	A20D369	"	5/1/2020 4:20:00PM
0E01047-CAL2	Cal Standard	Water	A20D370	"	5/1/2020 4:48:00PM
0E01047-CAL3	Cal Standard	Water	A20D371	"	5/1/2020 5:15:00PM
0E01047-CAL4	Cal Standard	Water	A20D372	"	5/1/2020 5:43:00PM
0E01047-CAL5	Cal Standard	Water	A20D373	"	5/1/2020 6:10:00PM
0E01047-CAL6	Cal Standard	Water	A20D374	"	5/1/2020 6:37:00PM
0E01047-CAL7	Cal Standard	Water	A20D375	"	5/1/2020 7:05:00PM
0E01047-CAL8	Cal Standard	Water	A20D376	"	5/1/2020 7:32:00PM
0E01047-CAL9	Cal Standard	Water	A20D377	"	5/1/2020 7:59:00PM
0E01047-CALA	Cal Standard	Water	A20D378	"	5/1/2020 8:54:00PM
0E01047-CALB	Cal Standard	Water	A20D379	"	5/1/2020 9:48:00PM
0E01047-ICV1	Initial Cal Check	Water	A20D380	"	5/1/2020 11:10:00PM

CALIBRATION STANDARD RECOVERIES

Calibration: **A0E0201** Instrument: **VOA-GCMS1**

8260D Oxygenates Sequence: **0E01047** Matrix: **Water**

0E01047-CAL1	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0E01047-CAL2	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0E01047-CAL3	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0E01047-CAL4	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0E01047-CAL5	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0E01047-CAL6	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0E01047-CAL7	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0E01047-CAL8	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0E01047-CAL9	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0E01047-CALA	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0E01047-CALB	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0E01047

Compounds listed above have recalculated recoveries outside 70-130% of the true values, and the calibration levels are above the reporting level. If no compounds are listed, all are OK. Please see the next section for quadatic fit compounds.

Analytes With Quadratic Curve Fits

Qualifier	iMDL	iMRL	Spike Amt	%Difference	OK?	Raise MRL to ?
t-1,3-DCP →				MDL ↑	☐	MRL ↑ ☑ 2 ppb

Analytes listed above have quadratic curve fits. If they are using a weighting otpion, they must be checked against the requanted curve points to determine if the recalculated results are within limits (70-130 or as specified).

ICV RECOVERIES

Calibration: **A0E0201** Instrument: **VOA-GCMS1**

QC - 624x/8260x All Cpds for Sequence: **0E01047** Matrix: **Water**

0E01047-ICV1	Inst. MRL	ICV Level	Result	%Rec.	Qual
Chloroethane	5	20.0	13.63	68	EST

Compounds listed above have Initial Calibration Verification standard recoveries outside 70-130% of the true values. If no compounds are listed, all have passing recoveries.

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050120.D
Acq On : 1 May 2020 11:10 pm
Operator : PS/TNL
Sample : 0E01047-ICV1
Misc : 1X 5mL 20-40 PPB VOCRO
ALS Vial : 20 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:17:05 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Sat May 02 09:01:18 2020
Response via : Initial Calibration

5/2/20 mL

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene (I)	50.000	50.000	0.0	103	0.00
2		Dichlorodifluoromethane	20.000	21.610	-8.0	106	0.00
3	P	Chloromethane	20.000	18.162	9.2	101	0.00
4	C	Vinyl Chloride	20.000	20.128	-0.6	103	0.00
5		Bromomethane	20.000	17.263	13.7	94	0.00
6		Chloroethane	20.000	13.625	31.9#	78	-0.01
7		Trichlorofluoromethane	20.000	22.866	-14.3	108	0.00
8		Ethanol	1250.000	1192.249	4.6	101	0.00
9	C	1,1-Dichloroethene	20.000	16.863	15.7	86	0.00
10		Carbon Disulfide	20.000	15.961	20.2#	82	0.00
11		Freon 113	20.000	18.772	6.1	92	0.00
12		Iodomethane	20.000	17.019	14.9	127	-0.01
13		Acrolein	20.000	20.162	-0.8	110	0.00
14		Methylene Chloride	20.000	17.964	10.2	94	0.00
15		Acetone	40.000	39.259	1.9	102	0.00
16		t-1,2-Dichloroethene	20.000	18.741	6.3	97	0.00
17		n-Hexane	20.000	18.183	9.1	93	0.00
18		Methyl-tert-butyl-ether	20.000	18.799	6.0	98	0.00
19		tert-Butanol (TBA)	1250.000	1339.551	-7.2	102	0.00
20		Diisopropyl ether (DIPE)	5.000	5.235	-4.7	109	0.00
21	P	1,1-Dichloroethane	20.000	19.312	3.4	101	0.00
22		Acrylonitrile	20.000	20.170	-0.9	99	0.00
23		Vinyl Acetate	20.000	14.573	27.1#	88	0.00
24		Ethyl-tert-butyl ether (ETB	5.000	5.176	-3.5	104	0.00
25		c-1,2-Dichloroethene	20.000	19.368	3.2	99	0.00
26		2,2-Dichloropropane	20.000	17.976	10.1	89	0.00
27		Bromochloromethane	20.000	19.379	3.1	98	0.00
28	C	Chloroform	20.000	20.822	-4.1	103	0.00
29		Carbon Tetrachloride	20.000	20.453	-2.3	103	0.00
30		Tetrahydrofuran	20.000	19.551	2.2	100	-0.01
31		1,1,1-Trichloroethane	20.000	21.234	-6.2	102	0.00
32	S	Dibromofluoromethane (S)	50.000	50.793	-1.6	105	0.00
33		1,1-Dichloropropene	20.000	19.961	0.2	100	0.00
34		2-Butanone (MEK)	40.000	38.660	3.4	97	0.00
35		Benzene	20.000	19.083	4.6	101	0.00
36		tert-Amyl methyl ether (TAM	5.000	4.703	5.9	100	0.00
37		1,2-Dichloroethane (EDC)	20.000	19.041	4.8	101	0.00
38		iso-Butyl Alcohol	500.000	539.153	-7.8	104	-0.02
39	S	1,4-Difluorobenzene (S)	50.000	49.769	0.5	103	0.00
40		Trichloroethene (TCE)	20.000	20.471	-2.4	105	0.00
41		tert-Amyl ethyl ether (TAEE	5.000	5.101	-2.0	103	0.00
42		Dibromomethane	20.000	19.739	1.3	101	0.00
43	C	1,2-Dichloropropane	20.000	18.874	5.6	103	0.00
44		Bromodichloromethane	20.000	21.270	-6.3	103	0.00
45		Chlorobenzene-d5 (I)	50.000	50.000	0.0	103	0.00
46		2-Chloroethyl Vinyl Ether	20.000	20.695	-3.5	100	0.00
47		c-1,3-Dichloropropene	20.000	21.041	-5.2	101	-0.01
48	S	Toluene-d8 (S)	50.000	49.863	0.3	103	0.00
49	C	Toluene	20.000	19.276	3.6	104	0.00
50		Tetrachloroethene (PCE)	20.000	20.266	-1.3	106	0.00

Est

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050120.D
Acq On : 1 May 2020 11:10 pm
Operator : PS/TNL
Sample : 0E01047-ICV1
Misc : 1X 5mL 20-40 PPB VOCRO
ALS Vial : 20 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:17:05 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Sat May 02 09:01:18 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
51		4-Methyl-2-Pentanone (MIBK)	40.000	41.704	-4.3	97	-0.01
52		t-1,3-Dichloropropene	20.000	19.302	3.5	103	0.00
53		1,1,2-Trichloroethane	20.000	20.823	-4.1	103	0.00
54		Dibromochloromethane	20.000	19.611	1.9	105	0.00
55		1,3-Dichloropropane	20.000	19.497	2.5	102	0.00
56		1,2-Dibromoethane (EDB)	20.000	21.207	-6.0	101	0.00
57		2-Hexanone	40.000	41.950	-4.9	97	-0.02
58	P	Chlorobenzene	20.000	19.263	3.7	105	0.00
59	C	Ethylbenzene	20.000	19.739	1.3	103	0.00
60		1,1,1,2-Tetrachloroethane	20.000	21.142	-5.7	106	0.00
61		m,p-Xylenes (2)	40.000	40.671	-1.7	104	0.00
62		o-Xylene	20.000	20.670	-3.4	104	-0.01
63		Styrene	20.000	21.410	-7.1	106	0.00
64	P	Bromoform	20.000	21.370	-6.9	107	0.00
65		Isopropylbenzene	20.000	21.655	-8.3	104	0.00
66	I	1,4-Dichlorobenzene-d4 (I)	50.000	50.000	0.0	106	0.00
67	S	4-Bromofluorobenzene (S)	50.000	49.700	0.6	104	0.00
68		Bromobenzene	20.000	19.255	3.7	104	0.00
69		n-Propylbenzene	20.000	20.241	-1.2	105	0.00
70	P	1,1,2,2-Tetrachloroethane	20.000	19.398	3.0	104	0.00
71		2-Chlorotoluene	20.000	20.735	-3.7	108	0.00
72		1,3,5-Trimethylbenzene	20.000	21.049	-5.2	105	0.00
73		1,2,3-Trichloropropane	20.000	20.396	-2.0	103	0.00
74		t-1,4-Dichloro-2-butene	20.000	15.746	21.3#	89	0.00
75		4-Chlorotoluene	20.000	19.869	0.7	105	0.00
76		tert-Butylbenzene	20.000	20.986	-4.9	106	0.00
77		1,2,4-Trimethylbenzene	20.000	21.143	-5.7	105	0.00
78		sec-Butylbenzene	20.000	21.762	-8.8	108	0.00
79		4-Isopropyltoluene	20.000	22.164	-10.8	108	0.00
80		1,3-Dichlorobenzene	20.000	20.206	-1.0	109	0.00
81		1,4-Dichlorobenzene	20.000	20.255	-1.3	109	0.00
82		n-Butylbenzene	20.000	21.762	-8.8	109	0.00
83		1,2-Dichlorobenzene	20.000	20.673	-3.4	108	0.00
84		1,2-Dibromo-3-Chloropropane	20.000	20.056	-0.3	104	0.00
85		Hexachlorobutadiene	20.000	22.954	-14.8	114	0.00
86		1,2,4-Trichlorobenzene	20.000	20.778	-3.9	110	0.00
87		Naphthalene	20.000	23.494	-17.5	109	0.00
88		1,2,3-Trichlorobenzene	20.000	21.485	-7.4	110	0.00

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

Response Factor Report VOA-GCMS1

Method Path : \\Voa-gcms1\1\METHODS\
Method File : VA200501W.M
Title : EPA 8260C: Volatile Organic Compounds
Last Update : Sat May 02 09:01:18 2020
Response Via : Initial Calibration

Calibration Files
1 =VA20050105.D 2 =VA20050106.D 3 =VA20050107.D 4 =VA20050108.D 5 =VA20050109.D 6 =VA20050110.D
7 =VA20050111.D 8 =VA20050112.D 9 =VA20050113.D 10 =VA20050115.D 1a =VA20050117.D

		Compound	1	2	3	4	5	6	7	8	9	10	1a	Avg	%RSD	
1)	I	Pentafluorobenzene...	----------			ISTD	----------									
2)		Dichlorodifluo...		0.777	0.951	0.809	0.809	0.969	1.016	0.992	0.980	1.067	1.066	0.944	11.38	
3)	P	Chloromethane		1.791	1.540	1.451	1.397	1.290	1.382	1.329	1.313	1.429	1.390	1.431	10.17	
4)	C	Vinyl Chloride	1.517	1.653	1.533	1.405	1.344	1.466	1.527	1.499	1.417	1.543	1.515	1.493	5.54	
5)		Bromomethane			1.425	1.325	1.227	1.161	1.199	1.114	0.980	0.985		1.177	13.10	
6)		Chloroethane				0.905	0.859	0.839	0.850	0.706	0.727	0.646		0.790	12.18	
7)		Trichlorofluor...	1.202	1.733	1.785	1.556	1.505	1.726	1.832	1.805	1.605	1.763	1.732	1.658	11.11	
8)		Ethanol		0.042	0.044	0.039	0.038	0.036	0.038	0.038	0.037	0.039		0.039	6.11	
9)	C	1,1-Dichloroet...		1.387	1.541	1.501	1.435	1.503	1.598	1.562	1.536	1.682	1.718	1.546	6.56	
10)		Carbon Disulfide		2.201	2.061	1.882	1.849	1.937	2.138	2.183	2.258	2.589	2.658	2.176	12.59	
11)		Freon 113			0.679	0.744	0.673	0.815	0.879	0.845	0.819	0.886	0.931	0.808	11.30	
12)		Iodomethane						0.070	0.114	0.191	0.389	0.592	0.693	0.342	75.97	1/a
13)		Acrolein					0.225	0.242	0.261	0.254	0.276	0.306	0.319	0.269	12.61	
14)		Methylene Chlo...						1.525	1.305	1.206	1.075	1.143	1.122	1.229	13.45	
15)		Acetone					0.816	0.691	0.697	0.679	0.617	0.654	0.642	0.685	9.40	
16)		t-1,2-Dichloro...	1.462	1.536	1.583	1.427	1.402	1.426	1.553	1.505	1.466	1.607	1.614	1.507	5.06	
17)		n-Hexane						0.190	0.204	0.212	0.198	0.222	0.234	0.210	7.76	
18)		Methyl-tert-bu...		3.767	3.598	3.273	3.179	3.211	3.421	3.415	3.360	3.675	3.751	3.465	6.34	
19)		tert-Butanol (...	0.296	0.269	0.267	0.245	0.254	0.266	0.290	0.306	0.314	0.338		0.284	10.34	
20)		Diisopropyl et...				3.975	3.798	3.680	3.856	3.807	3.711	4.135		3.852	4.10	
21)	P	1,1-Dichloroet...		2.079	2.305	2.001	2.006	1.964	2.128	2.050	1.971	2.146	2.131	2.078	5.02	
22)		Acrylonitrile				0.640	0.696	0.695	0.769	0.776	0.752	0.814	0.800	0.743	8.10	
23)		Vinyl Acetate					1.610	1.868	2.072	1.691	2.113	2.340	2.263	1.994	14.00	
24)		Ethyl-tert-but...				3.175	3.152	3.138	3.404	3.348	3.124	3.577		3.274	5.29	
25)		c-1,2-Dichloro...		1.580	1.487	1.514	1.484	1.523	1.595	1.565	1.507	1.650	1.654	1.556	4.06	
26)		2,2-Dichloropr...			0.959	0.924	0.930	0.995	1.080	1.110	1.114	1.233	1.253	1.067	11.61	
27)		Bromochloromet...		1.073	1.116	1.037	1.064	1.066	1.140	1.101	1.029	1.094	1.065	1.078	3.19	
28)	C	Chloroform		1.433	1.573	1.740	1.723	1.697	1.856	1.814	1.765	1.917	1.915	1.743	8.67	
29)		Carbon Tetrach...				0.725	0.792	0.891	0.992	1.047	1.097	1.263	1.353	1.020	21.39	1/a²
30)		Tetrahydrofuran				0.737	0.721	0.680	0.702	0.670	0.598	0.628	0.613	0.668	7.67	
31)		1,1,1-Trichlor...	1.165	1.188	1.602	1.336	1.420	1.456	1.573	1.592	1.546	1.705	1.742	1.484	12.95	
32)	S	Dibromofluorom...	0.815	0.806	0.800	0.826	0.816	0.833	0.836	0.841	0.883	0.885	0.941	0.844	5.05	
33)		1,1-Dichloropr...	1.160	1.474	1.631	1.411	1.293	1.363	1.484	1.476	1.408	1.563	1.605	1.443	9.58	
34)		2-Butanone (MEK)			1.138	1.093	1.107	1.083	1.142	1.175	1.119	1.222	1.222	1.145	4.53	
35)		Benzene	5.425	5.193	5.095	4.865	4.646	4.594	4.909	4.773	4.577	5.019	5.010	4.919	5.39	
36)		tert-Amyl meth...				3.462	3.199	2.881	3.014	2.975	2.824	3.206		3.080	7.22	
37)		1,2-Dichloroet...		1.788	1.706	1.596	1.495	1.479	1.520	1.517	1.428	1.543	1.541	1.561	6.98	
38)		iso-Butyl Alcohol		0.127	0.137	0.122	0.123	0.133	0.147	0.154	0.156	0.172	0.168	0.144	12.68	
39)	S	1,4-Difluorobe...	3.169	3.170	3.136	3.185	3.156	3.135	3.162	3.149	3.183	3.149	3.224	3.165	0.81	
40)		Trichloroethen...		1.222	1.264	1.080	1.067	1.040	1.130	1.149	1.072	1.191	1.219	1.144	6.81	
41)		tert-Amyl ethy...				2.144	2.235	2.100	2.311	2.299	2.227	2.516		2.262	6.00	

Method Path : \\Voa-gcms1\1\METHODS\
Method File : VA200501W.M
Title : EPA 8260C: Volatile Organic Compounds

42)		Dibromomethane				0.638	0.656	0.646	0.633	0.690	0.678	0.654	0.726	0.735	0.673	5.56	
43)	C	1,2-Dichloropr...	1.360	1.474	1.606	1.262	1.305	1.230	1.286	1.254	1.208	1.318	1.323	1.330		8.76	
44)		Bromodichlorom...			0.970	1.112	1.055	1.039	1.022	1.177	1.211	1.247	1.424		1.140	12.38	
45)		Chlorobenzene-d5 (I)	----------	ISTD	----------												
46)		2-Chloroethyl ...				0.229	0.256	0.267	0.289	0.313	0.310	0.346	0.338	0.294		13.86	
47)		c-1,3-Dichloro...		0.460	0.481	0.435	0.457	0.477	0.529	0.567	0.575	0.642	0.635	0.526		14.35	
48)	S	Toluene-d8 (S)	1.338	1.336	1.349	1.324	1.321	1.335	1.321	1.320	1.306	1.277	1.247	1.316		2.26	
49)	C	Toluene	1.949	1.995	1.968	1.724	1.686	1.674	1.746	1.698	1.617	1.771	1.709	1.776		7.40	
50)		Tetrachloroeth...		0.387	0.387	0.332	0.330	0.333	0.350	0.351	0.332	0.371	0.371	0.354		6.48	
51)		4-Methyl-2-Pen...	0.551	0.632	0.706	0.646	0.662	0.698	0.752	0.785	0.760	0.827	0.783	0.709		11.54	
52)		t-1,3-Dichloro...				0.355	0.379	0.429	0.486	0.522	0.539	0.609	0.608	0.491		19.77	1/a
53)		1,1,2-Trichlor...	0.284	0.344	0.380	0.361	0.358	0.359	0.384	0.380	0.364	0.392	0.381	0.362		8.19	
54)		Dibromochlorom...				0.211	0.212	0.223	0.237	0.274	0.296	0.308	0.360	0.363	0.276	21.67	1/a
55)		1,3-Dichloropr...	0.778	0.737	0.814	0.697	0.681	0.678	0.711	0.708	0.663	0.723	0.698	0.717		6.27	
56)		1,2-Dibromoeth...		0.308	0.324	0.314	0.327	0.353	0.370	0.381	0.363	0.397	0.391	0.353		9.26	
57)		2-Hexanone				0.486	0.405	0.469	0.507	0.564	0.598	0.580	0.630	0.582	0.536	13.59	
58)	P	Chlorobenzene	1.321	1.212	1.205	1.038	1.047	1.022	1.051	1.043	0.986	1.104	1.066	1.100		9.33	
59)	C	Ethylbenzene	2.187	1.912	2.048	1.701	1.691	1.760	1.840	1.844	1.741	1.952	1.911	1.872		8.15	
60)		1,1,1,2-Tetrac...				0.292	0.259	0.266	0.276	0.295	0.312	0.314	0.362	0.361	0.304	12.35	
61)		m,p-Xylenes (2)	1.400	1.413	1.363	1.199	1.222	1.245	1.353	1.360	1.299	1.481	1.471	1.346		7.09	
62)		o-Xylene	1.344	1.327	1.346	1.232	1.244	1.253	1.351	1.376	1.320	1.492	1.465	1.341		6.20	
63)		Styrene				0.957	0.842	0.900	0.984	1.068	1.104	1.089	1.274	1.265	1.053	14.23	
64)	P	Bromoform					0.119	0.134	0.162	0.172	0.201	0.228	0.285		0.186	30.87	1/a
65)		Isopropylbenzene	1.492	1.430	1.591	1.372	1.427	1.556	1.661	1.696	1.604	1.821	1.777	1.584		9.26	
66)	I	1,4-Dichlorobenzen...	----------	ISTD	----------												
67)	S	4-Bromofluorob...	0.772	0.802	0.770	0.784	0.790	0.756	0.757	0.770	0.754	0.728	0.727	0.765		3.08	
68)		Bromobenzene	1.002	0.974	0.973	0.823	0.806	0.804	0.835	0.850	0.788	0.868	0.849	0.870		8.76	
69)		n-Propylbenzene	4.485	4.444	4.223	3.636	3.569	3.712	3.941	4.046	3.693	4.038	3.979	3.979		7.87	
70)	P	1,1,2,2-Tetrac...	0.991	1.162	1.277	1.062	1.110	1.079	1.095	1.086	1.043	1.095		1.100		6.94	
71)		2-Chlorotoluene	0.653	0.929	0.860	0.719	0.773	0.732	0.777	0.787	0.733	0.805	0.805	0.779		9.45	
72)		1,3,5-Trimethy...	2.707	2.522	2.483	2.251	2.351	2.481	2.614	2.709	2.521	2.780	2.847	2.570		7.08	
73)		1,2,3-Trichlor...		0.370	0.405	0.365	0.381	0.385	0.386	0.405	0.373	0.399	0.402	0.387		3.87	
74)		t-1,4-Dichloro...							0.110	0.125	0.131	0.151	0.152	0.134		13.14	
75)		4-Chlorotoluene	2.666	2.612	2.796	2.358	2.333	2.317	2.393	2.465	2.294	2.461	2.431	2.466		6.51	
76)		tert-Butylbenzene	1.453	1.588	1.441	1.336	1.325	1.364	1.449	1.508	1.379	1.511	1.522	1.443		5.87	
77)		1,2,4-Trimethy...	2.482	2.639	2.538	2.333	2.420	2.498	2.615	2.723	2.523	2.789	2.744	2.573		5.54	
78)		sec-Butylbenzene	3.114	3.451	3.009	2.868	2.892	3.131	3.299	3.411	3.136	3.417	3.406	3.194		6.75	
79)		4-Isopropyltol...	2.731	2.587	2.453	2.268	2.323	2.439	2.658	2.832	2.600	2.881	2.874	2.604		8.26	
80)		1,3-Dichlorobe...	1.730	1.924	1.657	1.499	1.500	1.455	1.550	1.558	1.446	1.577	1.540	1.585		8.83	
81)		1,4-Dichlorobe...		2.065	1.830	1.583	1.580	1.546	1.564	1.611	1.478	1.623	1.592	1.647		10.47	
82)		n-Butylbenzene	2.680	2.784	2.389	2.035	2.115	2.243	2.445	2.573	2.351	2.606	2.546	2.433		9.64	
83)		1,2-Dichlorobe...	1.453	1.743	1.667	1.416	1.515	1.417	1.509	1.532	1.427	1.537	1.494	1.519		6.82	
84)		1,2-Dibromo-3-...						0.206	0.219	0.258	0.268	0.290	0.285	0.254		13.58	
85)		Hexachlorobuta...				0.207	0.198	0.213	0.218	0.229	0.205	0.225	0.220	0.214		4.90	
86)		1,2,4-Trichlor...	1.254	1.223	0.991	0.900	0.897	0.880	0.959	1.008	0.935	1.014	1.009	1.006		12.39	
87)		Naphthalene	3.070	2.909	2.792	2.501	2.699	2.829	3.197	3.473	3.287	3.439	3.395	3.054		10.79	
88)		1,2,3-Trichlor...	1.172	1.154	0.932	0.811	0.870	0.893	0.960	0.999	0.925	0.982	0.968	0.970		11.34	

(#) = Out of Range

Compound List Report VOA-GCMS1

Method Path : \\Voa-gcms1\1\METHODS\
Method File : VA200501W.M
Title : EPA 8260C: Volatile Organic Compounds
Last Update : Sat May 02 09:01:18 2020
Response Via : Initial Calibration

Total Cpnds : 88

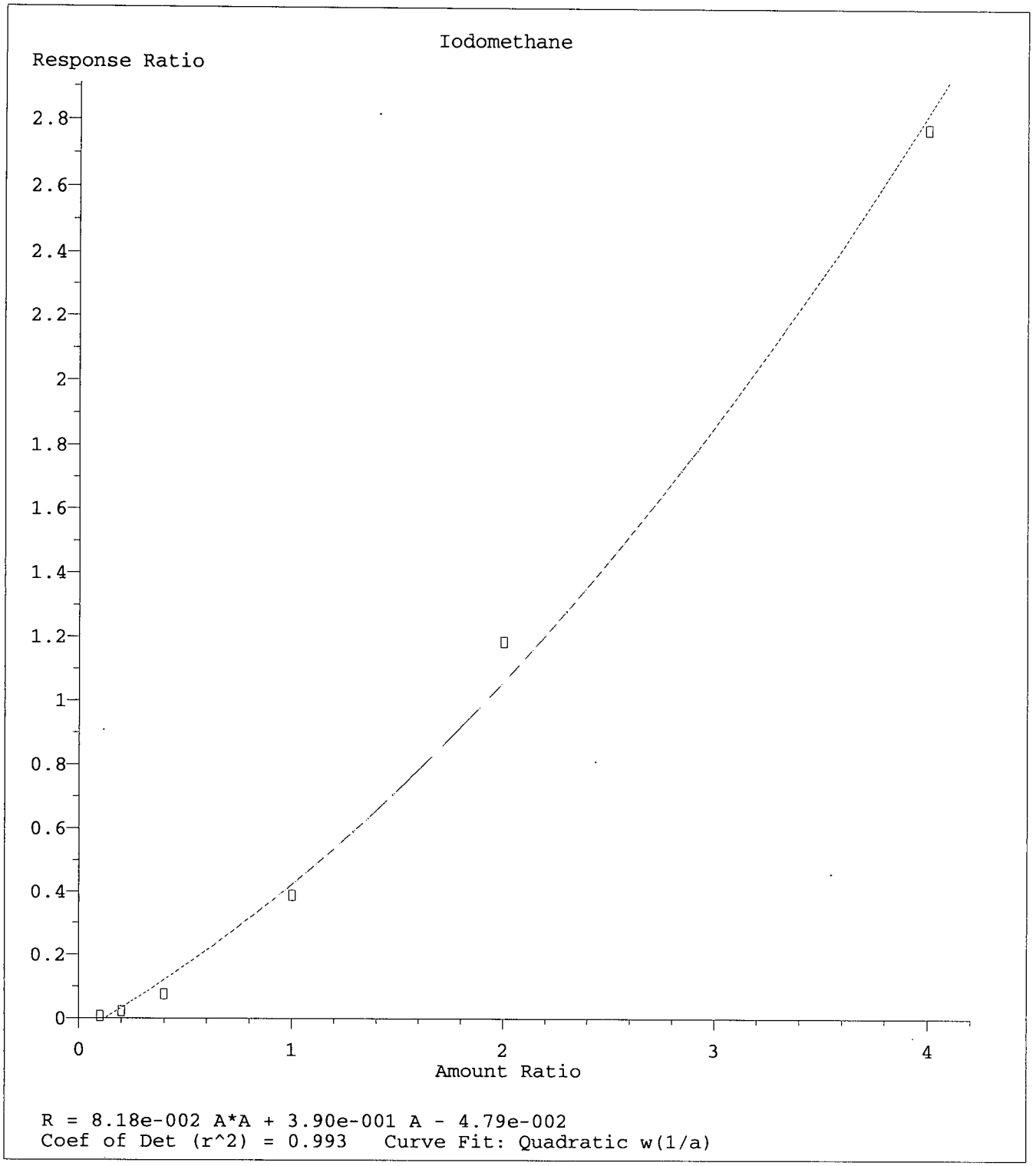
5/2/2020

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID	
1	I	Pentafluorobenzene (I)	99	5.531	1.000	A	2	A	R	
2		Dichlorodifluoromethane	85	1.404	0.254	A	2	A	R	
3	P	Chloromethane	50	1.580	0.286	A	2	A	R	
4	C	Vinyl Chloride	62	1.651	0.298	A	2	A	R	
5		Bromomethane	96	1.955	0.353	A	2	A	R	
6		Chloroethane	64	2.082	0.376	A	2	A	R	
7		Trichlorofluoromethane	101	2.217	0.401	A	2	A	R	
8		Ethanol	45	2.715	0.491	A	1	A	R	
9	C	1,1-Dichloroethene	61	2.706	0.489	A	2	A	R	
10		Carbon Disulfide	76	2.722	0.492	A	2	A	R	
11		Freon 113	101	2.755	0.498	A	2	A	R	
12		Iodomethane	142	2.855	0.516	Q	2	A	R	1/a
13		Acrolein	56	3.059	0.553	A	2	A	R	
14		Methylene Chloride	84	3.287	0.594	A	2	A	R	
15		Acetone	43	3.360	0.607	A	1	A	R	
16		t-1,2-Dichloroethene	61	3.439	0.622	A	2	A	R	
17		n-Hexane	86	3.527	0.638	A	3	A	R	
18		Methyl-tert-butyl-ether	73	3.576	0.647	A	3	A	R	
19		tert-Butanol (TBA)	59	3.695	0.668	A	1	A	R	
20		Diisopropyl ether (DIPE)	45	3.953	0.715	A	2	A	R	
21	P	1,1-Dichloroethane	63	4.044	0.731	A	2	A	R	
22		Acrylonitrile	53	4.112	0.743	A	2	A	R	
23		Vinyl Acetate	43	4.324	0.782	A	2	A	R	
24		Ethyl-tert-butyl ether (ETBE)	59	4.306	0.779	A	2	A	R	
25		c-1,2-Dichloroethene	61	4.574	0.827	A	2	A	R	
26		2,2-Dichloropropane	77	4.671	0.845	A	2	A	R	
27		Bromochloromethane	49	4.768	0.862	A	2	A	R	
28	C	Chloroform	83	4.853	0.877	A	2	A	R	
29		Carbon Tetrachloride	117	4.969	0.898	Q	2	A	R	1/a²
30		Tetrahydrofuran	42	5.026	0.909	A	2	A	R	
31		1,1,1-Trichloroethane	97	5.038	0.911	A	2	A	R	
32	S	Dibromofluoromethane (S)	111	5.032	0.910	A	2	A	R	
33		1,1-Dichloropropene	75	5.178	0.936	A	2	A	R	
34		2-Butanone (MEK)	43	5.179	0.936	A	2	A	R	
35		Benzene	78	5.415	0.979	A	2	A	R	
36		tert-Amyl methyl ether (TAME)	73	5.569	1.007	A	2	A	R	
37		1,2-Dichloroethane (EDC)	62	5.630	1.018	A	2	A	R	
38		iso-Butyl Alcohol	43	5.720	1.034	A	2	A	R	
39	S	1,4-Difluorobenzene (S)	114	6.072	1.098	A	2	A	R	
40		Trichloroethene (TCE)	130	6.035	1.091	A	2	A	R	
41		tert-Amyl ethyl ether (TAEE)	59	6.305	1.140	A	2	A	R	
42		Dibromomethane	93	6.462	1.168	A	2	A	R	
43	C	1,2-Dichloropropane	63	6.571	1.188	A	2	A	R	
44		Bromodichloromethane	83	6.657	1.204	A	2	A	R	
45	I	Chlorobenzene-d5 (I)	117	9.297	1.000	A	2	A	R	
46		2-Chloroethyl Vinyl Ether	63	7.308	0.786	A	2	A	R	
47		c-1,3-Dichloropropene	75	7.362	0.792	A	2	A	R	
48	S	Toluene-d8 (S)	98	7.557	0.813	A	2	A	R	
49	C	Toluene	91	7.618	0.819	A	2	A	R	
50		Tetrachloroethene (PCE)	166	8.055	0.866	A	2	A	R	
51		4-Methyl-2-Pentanone (MIBK)	43	8.086	0.870	A	2	A	R	

52		t-1,3-Dichloropropene	75	8.105	0.872	Q	2	A	R
53		1,1,2-Trichloroethane	97	8.286	0.891	A	2	A	R
54		Dibromochloromethane	129	8.488	0.913	Q	2	A	R
55		1,3-Dichloropropane	76	8.603	0.925	A	2	A	R
56		1,2-Dibromoethane (EDB)	107	8.750	0.941	A	2	A	R
57		2-Hexanone	43	9.059	0.974	A	2	A	R
58	P	Chlorobenzene	112	9.321	1.003	A	2	A	R
59	C	Ethylbenzene	91	9.364	1.007	A	2	A	R
60		1,1,1,2-Tetrachloroethane	131	9.389	1.010	A	2	A	R
61		m,p-Xylenes (2)	91	9.510	1.023	A	2	A	R
62		o-Xylene	91	9.923	1.067	A	2	A	R
63		Styrene	104	9.965	1.072	A	2	A	R
64	P	Bromoform	173	9.973	1.073	Q	2	A	R
65		Isopropylbenzene	105	10.203	1.098	A	2	A	R
66	I	1,4-Dichlorobenzene-d4 (I)	152	11.359	1.000	A	2	A	R
67	S	4-Bromofluorobenzene (S)	174	10.446	0.920	A	2	A	R
68		Bromobenzene	156	10.519	0.926	A	2	A	R
69		n-Propylbenzene	91	10.568	0.930	A	2	A	R
70	P	1,1,2,2-Tetrachloroethane	83	10.628	0.936	A	2	A	R
71		2-Chlorotoluene	126	10.690	0.941	A	2	A	R
72		1,3,5-Trimethylbenzene	105	10.726	0.944	A	2	A	R
73		1,2,3-Trichloropropane	110	10.733	0.945	A	2	A	R
74		t-1,4-Dichloro-2-butene	88	10.776	0.949	A	3	A	R
75		4-Chlorotoluene	91	10.830	0.953	A	2	A	R
76		tert-Butylbenzene	91	10.988	0.967	A	2	A	R
77		1,2,4-Trimethylbenzene	105	11.049	0.973	A	2	A	R
78		sec-Butylbenzene	105	11.134	0.980	A	2	A	R
79		4-Isopropyltoluene	119	11.249	0.990	A	2	A	R
80		1,3-Dichlorobenzene	146	11.298	0.995	A	2	A	R
81		1,4-Dichlorobenzene	146	11.371	1.001	A	2	A	R
82		n-Butylbenzene	91	11.578	1.019	A	2	A	R
83		1,2-Dichlorobenzene	146	11.700	1.030	A	2	A	R
84		1,2-Dibromo-3-Chloropropane	157	12.290	1.082	A	2	A	R
85		Hexachlorobutadiene	223	12.783	1.125	A	3	A	R
86		1,2,4-Trichlorobenzene	180	12.813	1.128	A	2	A	R
87		Naphthalene	128	13.081	1.152	A	2	A	R
88		1,2,3-Trichlorobenzene	180	13.232	1.165	A	2	A	R

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

VA200501W.M Sat May 02 09:16:04 2020



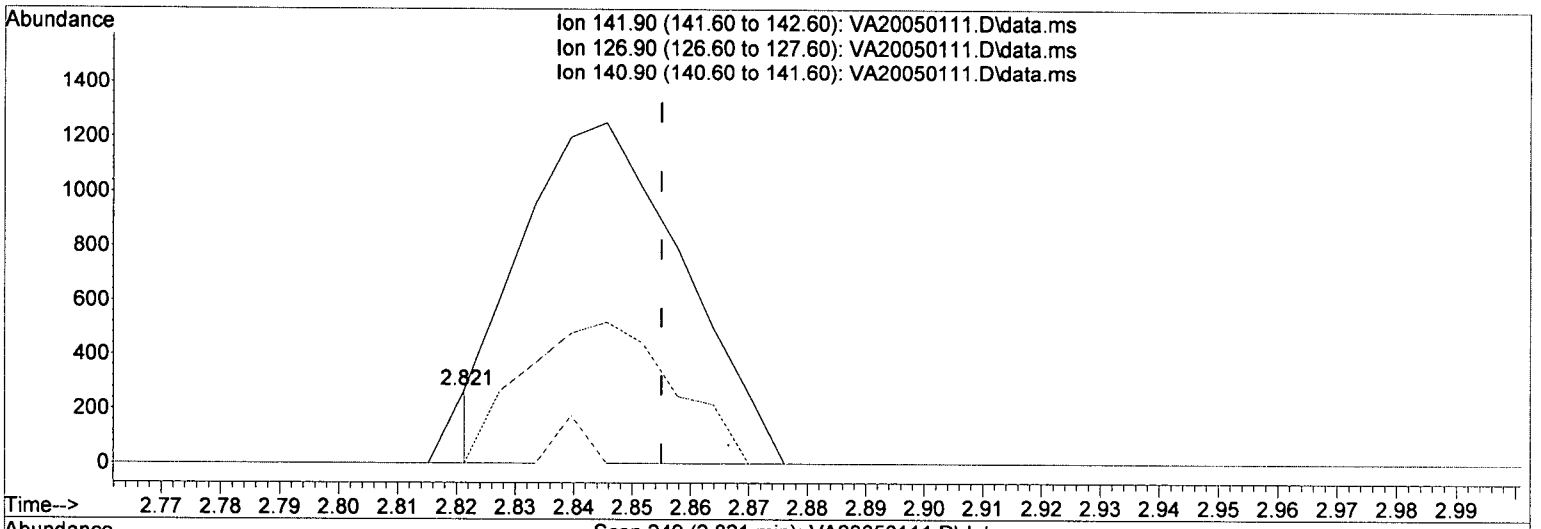
Method Name: \\Voa-gcms1\1\METHODS\VA200501W.M
Calibration Table Last Updated: Sat May 02 09:01:18 2020

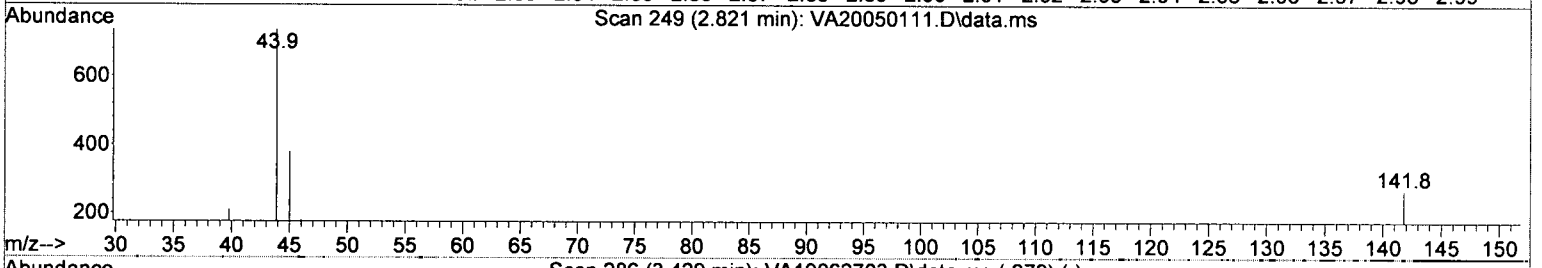
Intercept < MDL
05/02/2020

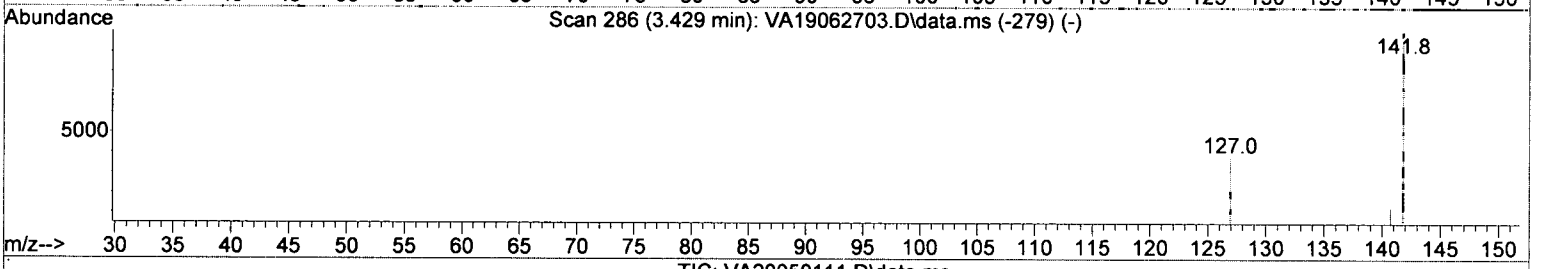
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\requant\
Data File : VA20050111.D
Acq On : 1 May 2020 7:05 pm
Operator : PS/TNL
Sample : 0E01047-CAL7
Misc : 1X 5mL 10 PPB VOCRO
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:01:54 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Sat May 02 09:01:18 2020
Response via : Initial Calibration







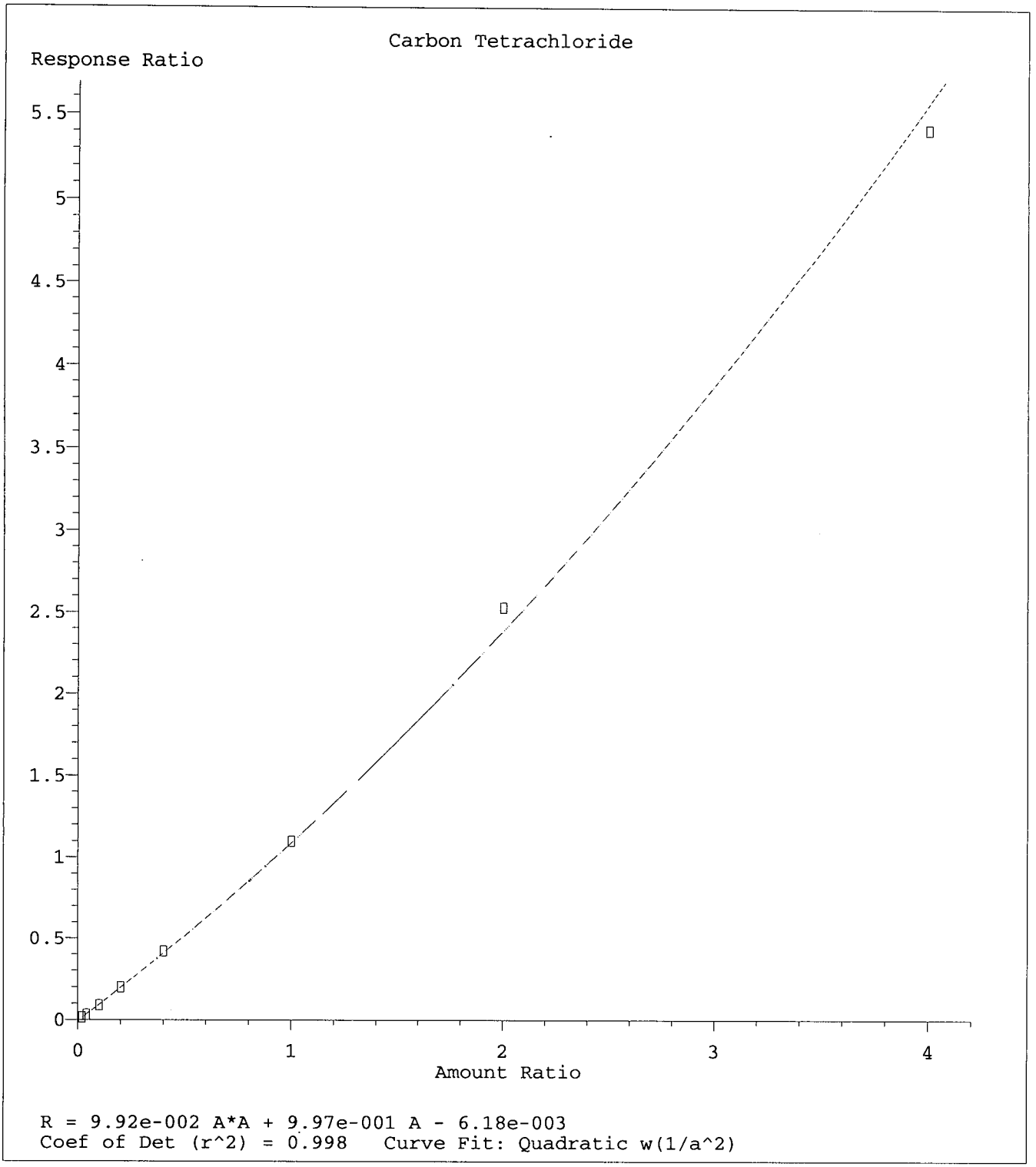
TIC: VA20050111.D\data.ms

(12) Iodomethane

2.821min (-0.034) 6.09 ug/L m

response 98

Ion	Exp%	Act%
141.90	100	100
126.90	34.80	0.00#
140.90	15.30	0.00
0.00	0.00	0.00



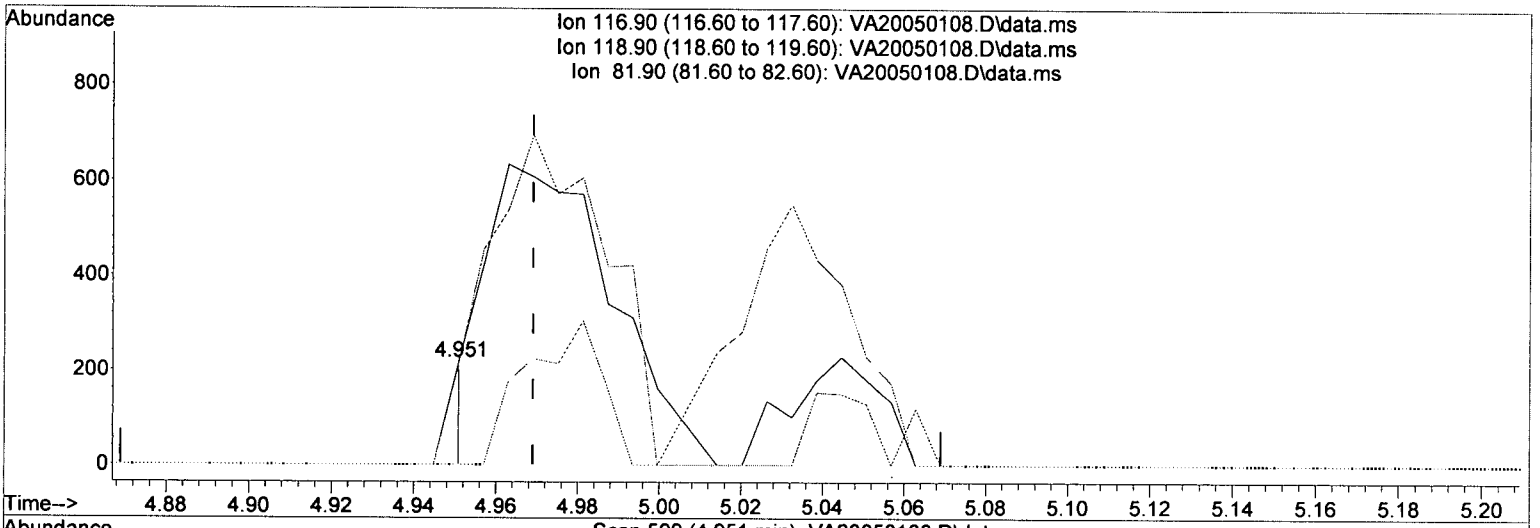
Method Name: \\Voa-gcms1\1\METHODS\VA200501W.M
Calibration Table Last Updated: Sat May 02 09:01:18 2020

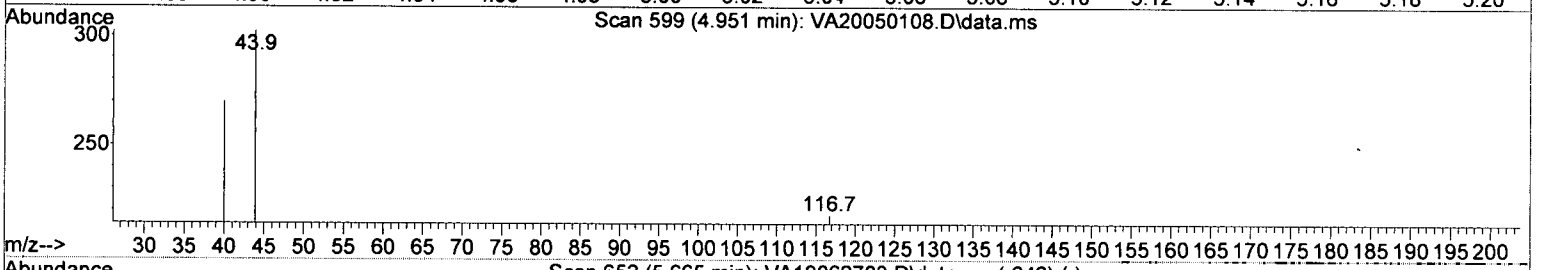
Intercept < MDL
5/2/2020

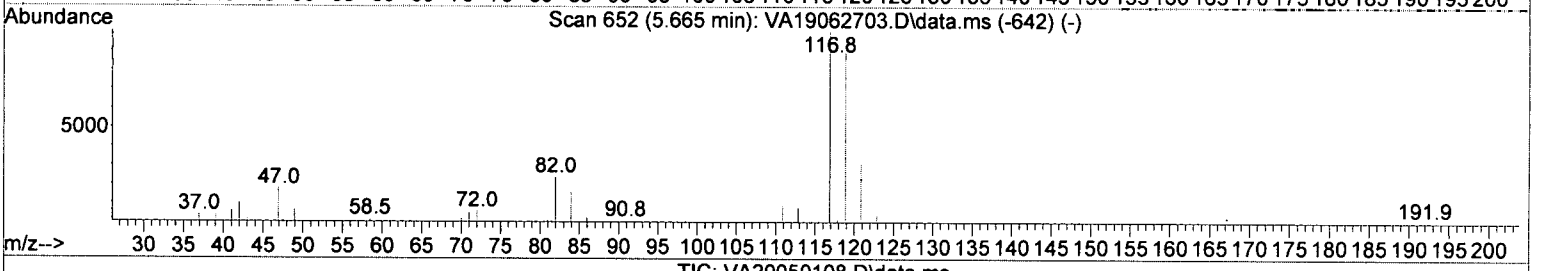
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\requant\
Data File : VA20050108.D
Acq On : 1 May 2020 5:43 pm
Operator : PS/TNL
Sample : 0E01047-CAL4
Misc : 1X 5mL 1 PPB VOCRO
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:01:48 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Sat May 02 09:01:18 2020
Response via : Initial Calibration







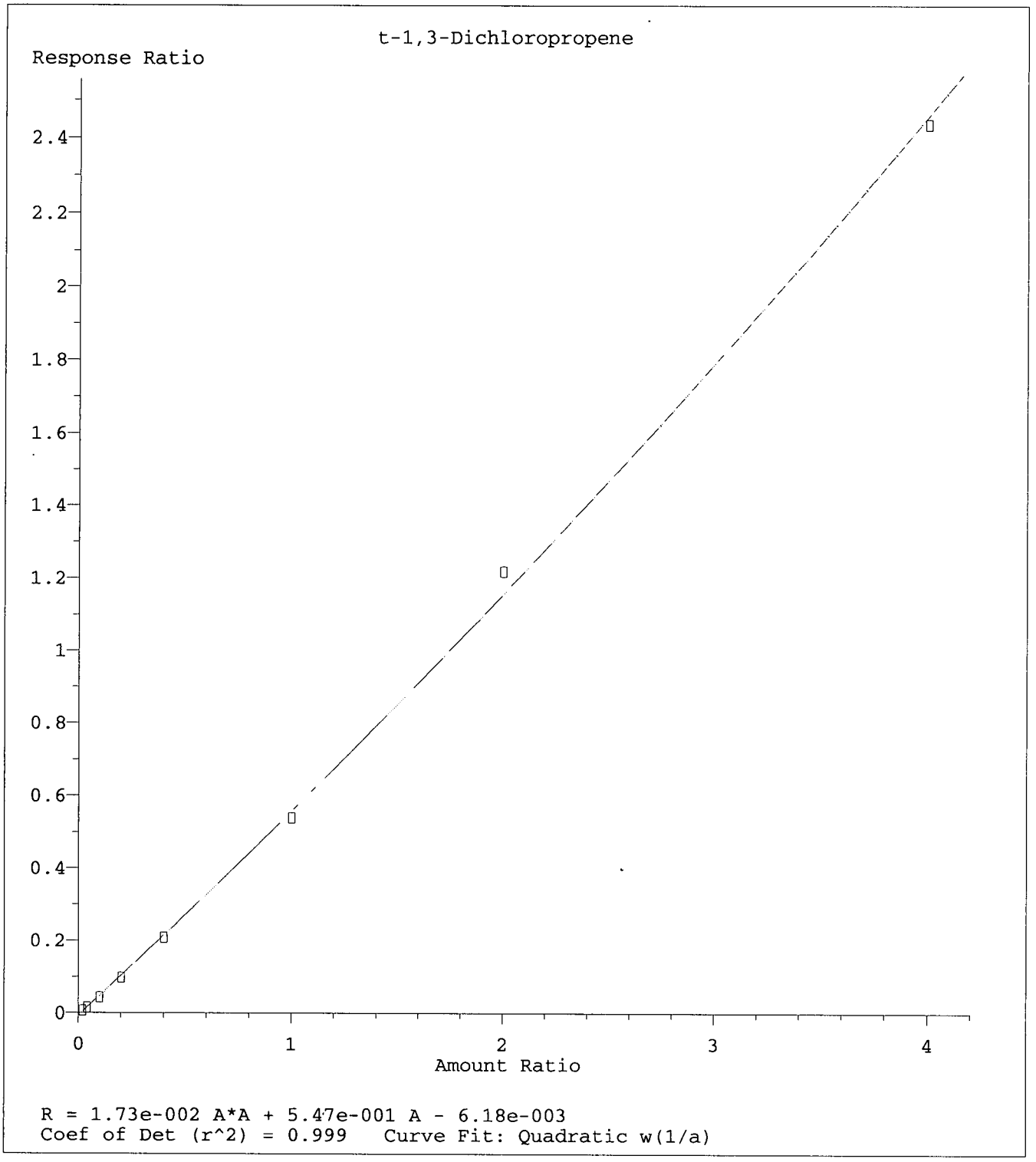
TIC: VA20050108.D\data.ms

(29) Carbon Tetrachloride

4.951min (-0.018) 0.35 ug/L m

response 80

Ion	Exp%	Act%
116.90	100	100
118.90	91.90	98.17
81.90	22.60	0.00
0.00	0.00	0.00



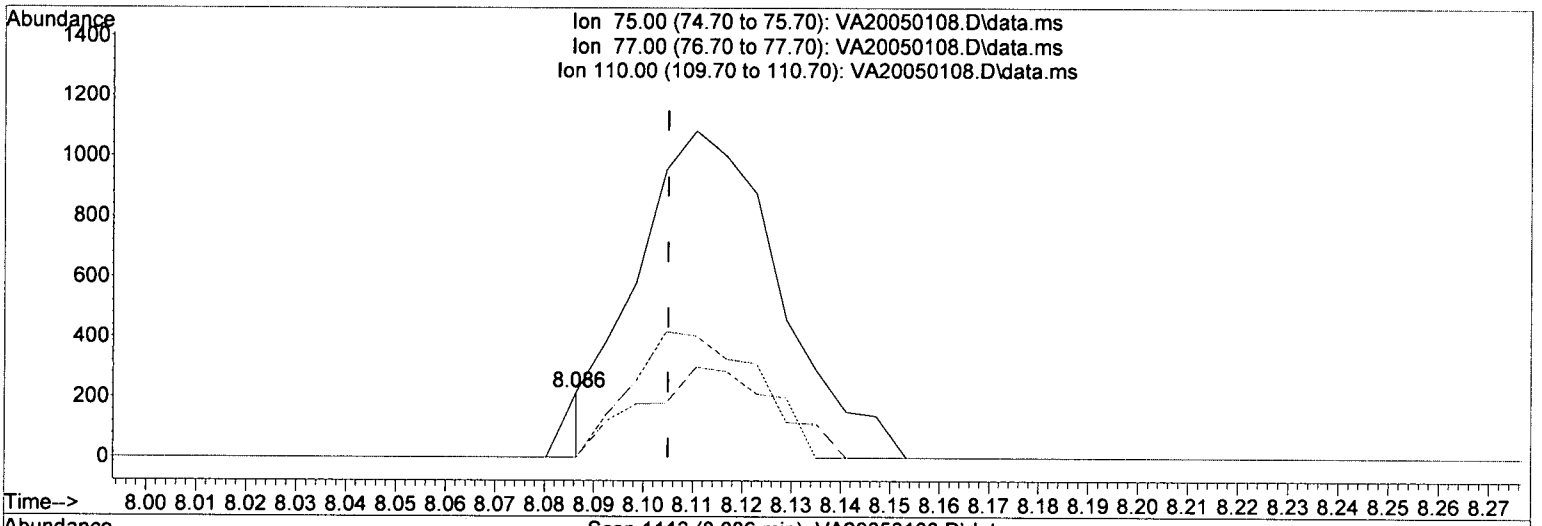
Method Name: \\Voa-gcms1\1\METHODS\VA200501W.M
Calibration Table Last Updated: Sat May 02 09:01:18 2020

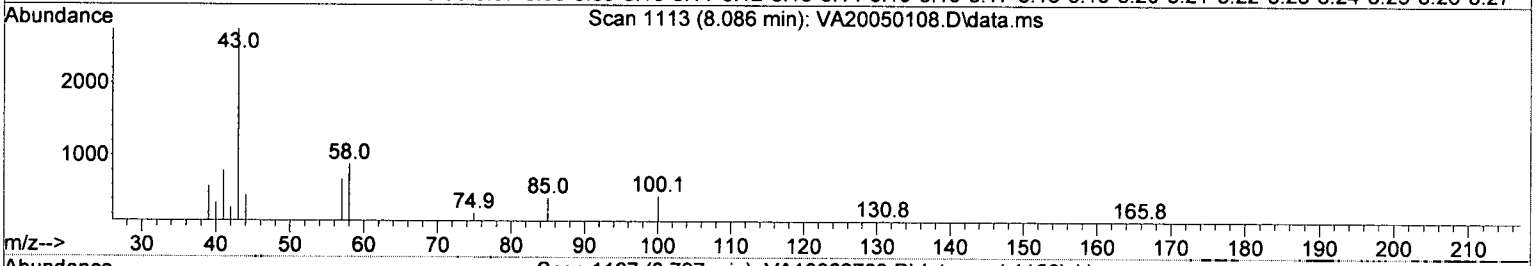
Intercept > MDL
MDL 1, MRL 1
1.0 ppb / 3 ppb

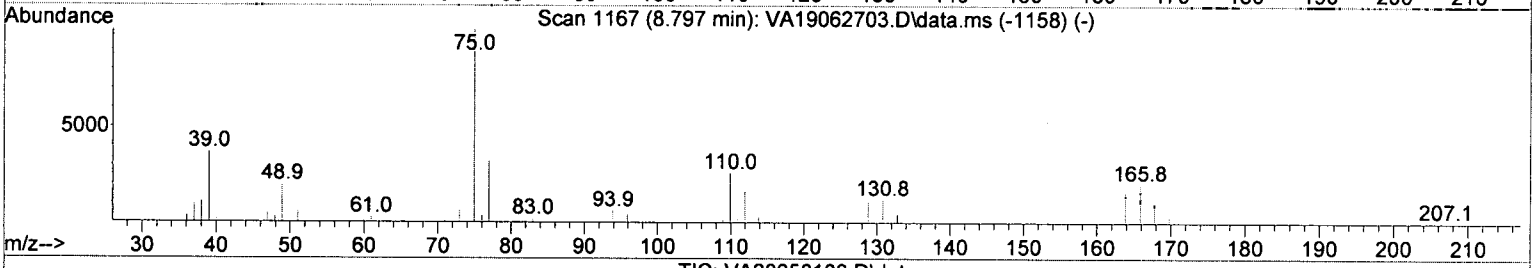
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\requant\
Data File : VA20050108.D
Acq On : 1 May 2020 5:43 pm
Operator : PS/TNL
Sample : 0E01047-CAL4
Misc : 1X 5mL 1 PPB VOCRO
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:01:48 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Sat May 02 09:01:18 2020
Response via : Initial Calibration







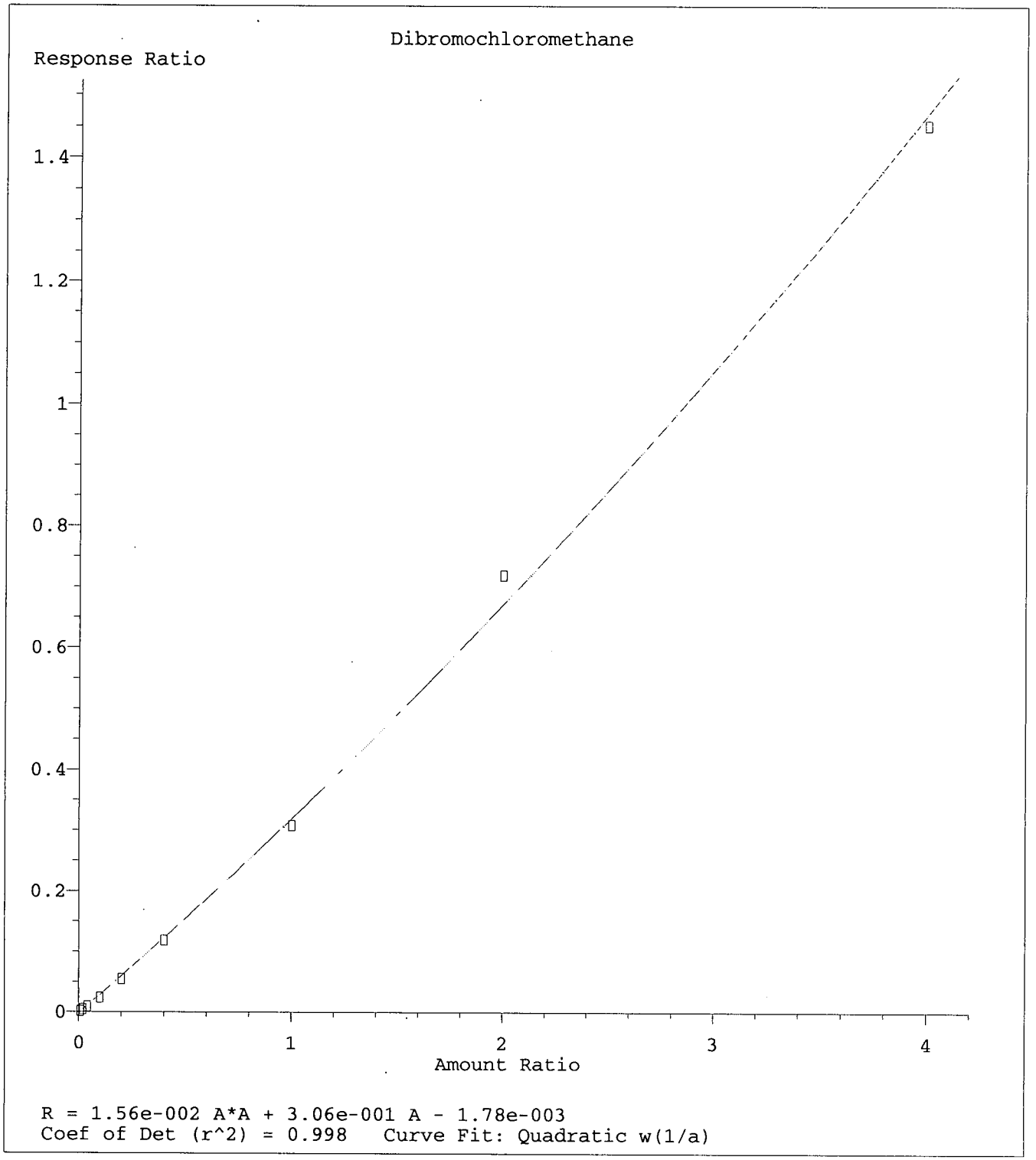
TIC: VA20050108.D\data.ms

(52) t-1,3-Dichloropropene

8.086min (-0.019) 0.59 ug/L m

response 79

Ion	Exp%	Act%
75.00	100	100
77.00	33.20	0.00#
110.00	25.60	0.00
0.00	0.00	0.00



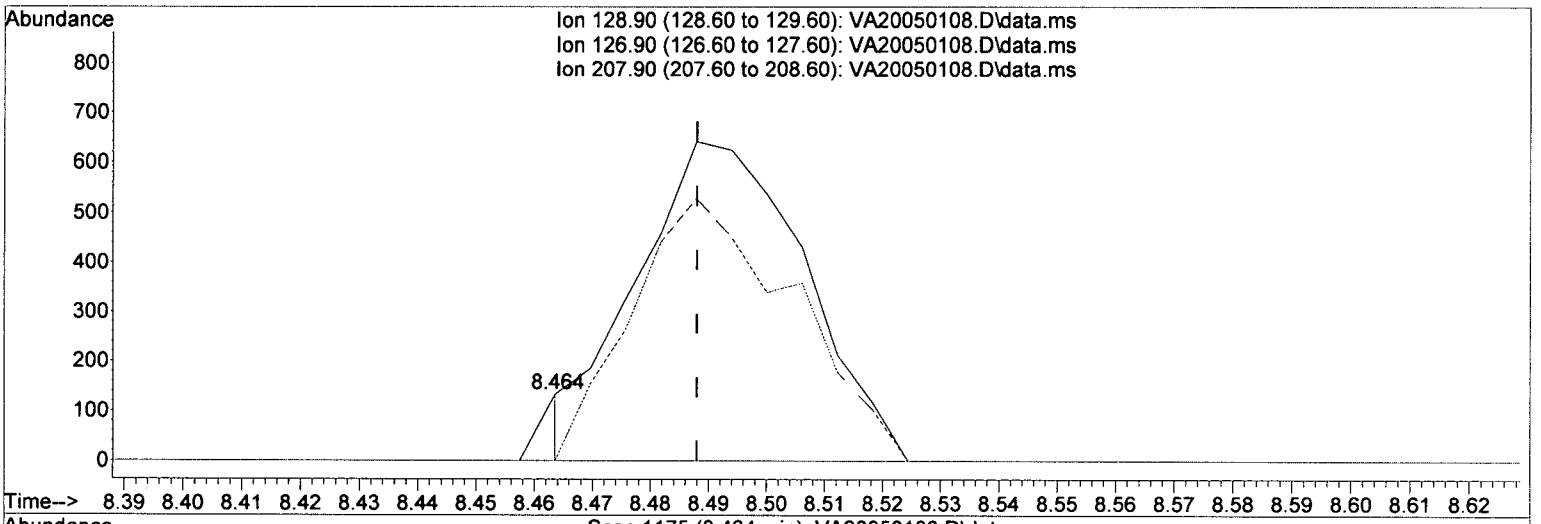
Method Name: \\Voa-gcms1\1\METHODS\VA200501W.M
Calibration Table Last Updated: Sat May 02 09:01:18 2020

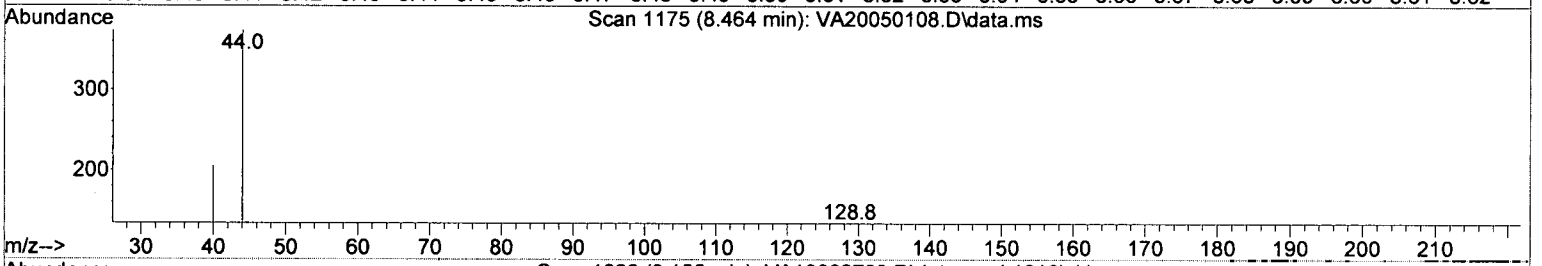
Intercept LMR
5/2/2020

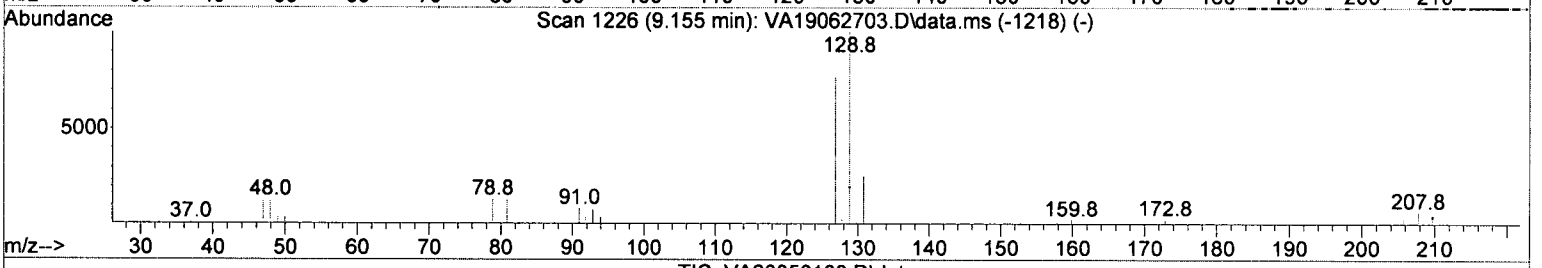
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\requant\
Data File : VA20050108.D
Acq On : 1 May 2020 5:43 pm
Operator : PS/TNL
Sample : 0E01047-CAL4
Misc : 1X 5mL 1 PPB VOCRO
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:01:48 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Sat May 02 09:01:18 2020
Response via : Initial Calibration







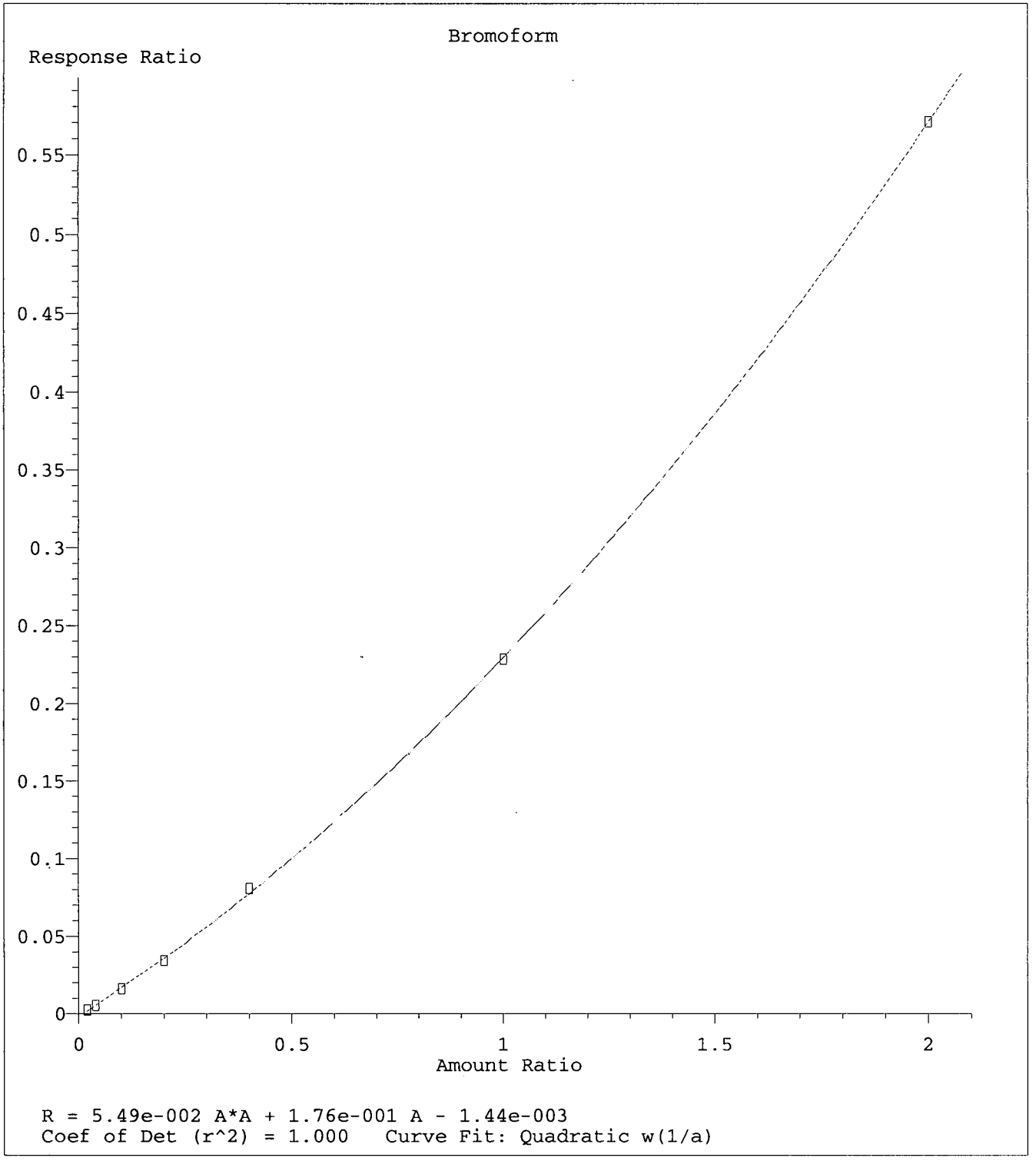
TIC: VA20050108.D\data.ms

(54) Dibromochloromethane

8.464min (-0.024) 0.32 ug/L m

response 49

Ion	Exp%	Act%
128.90	100	100
126.90	77.40	0.00#
207.90	7.30	0.00
0.00	0.00	0.00



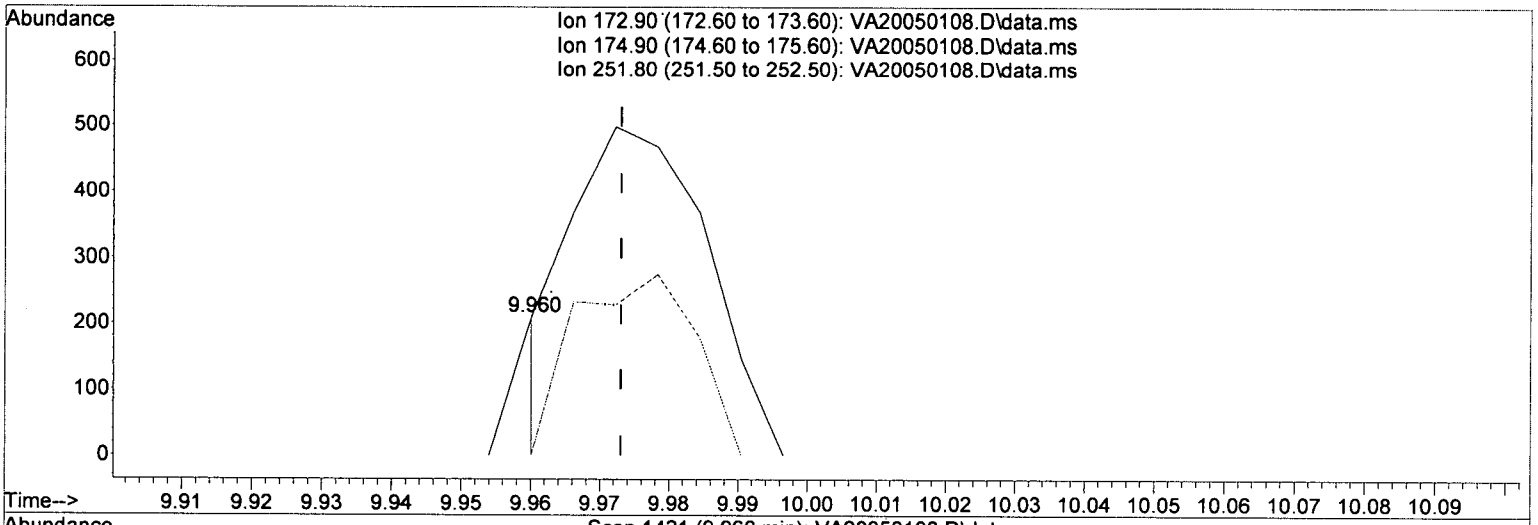
Method Name: \\Voa-gcms1\1\METHODS\VA200501W.M
Calibration Table Last Updated: Sat May 02 09:01:18 2020

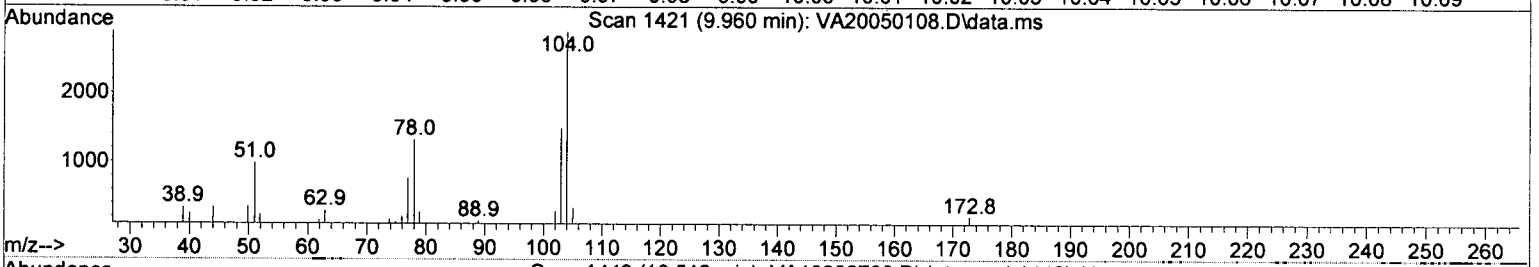
Intercept ≤ MDL
5/2/20 mf

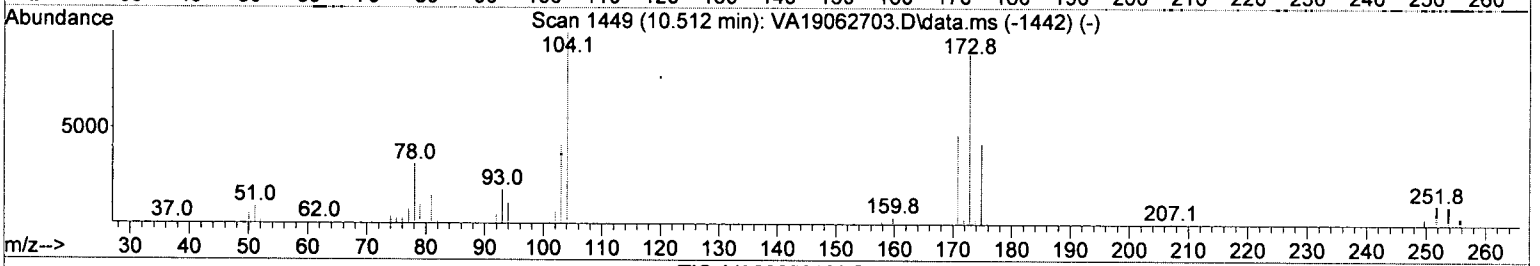
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\requant\
Data File : VA20050108.D
Acq On : 1 May 2020 5:43 pm
Operator : PS/TNL
Sample : 0E01047-CAL4
Misc : 1X 5mL 1 PPB VOCRO
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:01:48 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Sat May 02 09:01:18 2020
Response via : Initial Calibration







TIC: VA20050108.D\data.ms

(64) Bromoform (P)

9.960min (-0.013) 0.48 ug/L m

response 77

Ion	Exp%	Act%
172.90	100	100
174.90	48.50	0.00#
251.80	13.90	0.00
0.00	0.00	0.00

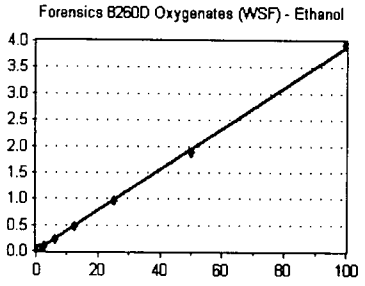
Element Calibration Review Sheet

Calibration ID: **A0E0201** Instrument: **VOA-GCMS1** Calibration Date: **05/02/2020**

Analysis: **Forensics 8260D Oxygenate** Instrument Cal ID: **A0E0201**

Ethanol

Curve Fit: **AVERAGE RF**

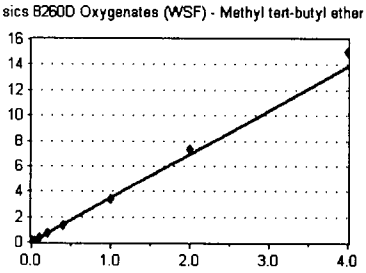


Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~6.25~~	~~671~~	~~0.050~~	~~2.72~~
0E01047-CAL2	12.5	1148	4.211	2.72
0E01047-CAL3	25	2399	4.359	2.72
0E01047-CAL4	62.5	5322	0.039	2.72
0E01047-CAL5	125	10012	3.770	2.72
0E01047-CAL6	312	25086	3.633	2.72
0E01047-CAL7	625	51625	3.755	2.72
0E01047-CAL8	1250	105531	3.804	2.72
0E01047-CAL9	2500	217951	3.738	2.72
0E01047-CALA	5000	435279	3.924	2.72

AVE RF **3.899** RF RSD **6.11** AVE RT **2.72**

Methyl tert-butyl ether (MTBE)

Curve Fit: **AVERAGE RF**

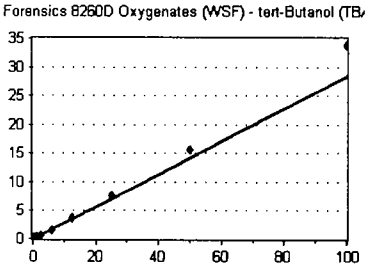


Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
0E01047-CAL2	0.2	1643	3.767	3.58
0E01047-CAL3	0.4	3168	3.598	3.58
0E01047-CAL4	1	7150	3.273	3.57
0E01047-CAL5	2	13505	3.179	3.57
0E01047-CAL6	5	35533	3.211	3.57
0E01047-CAL7	10	75254	3.421	3.57
0E01047-CAL8	20	151575	3.415	3.57
0E01047-CAL9	50	391807	3.360	3.57
0E01047-CALA	100	815144	3.675	3.57
0E01047-CALB	200	1710060	3.751	3.57

AVE RF **3.465** RF RSD **6.34** AVE RT **3.57**

tert-Butanol (TBA)

Curve Fit: **AVERAGE RF**

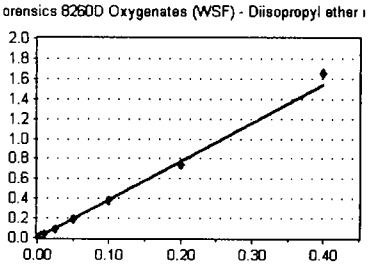


Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	6.25	3989	0.296	3.70
0E01047-CAL2	12.5	7335	0.269	3.70
0E01047-CAL3	25	14693	0.267	3.70
0E01047-CAL4	62.5	33415	0.245	3.70
0E01047-CAL5	125	67336	0.254	3.70
0E01047-CAL6	312	183371	0.266	3.70
0E01047-CAL7	625	398166	0.290	3.70
0E01047-CAL8	1250	848873	0.306	3.70
0E01047-CAL9	2500	1831951	0.314	3.70
0E01047-CALA	5000	3745890	0.338	3.70

AVE RF **0.284** RF RSD **10.34** AVE RT **3.70**

Diisopropyl ether (DIPE)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.025~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL2~~	~~0.05~~	~~278~~	~~2.549~~	~~0.00~~
~~0E01047-CAL3~~	~~0.1~~	~~866~~	~~3.934~~	~~3.95~~
0E01047-CAL4	0.25	2171	3.975	3.96
0E01047-CAL5	0.5	4034	3.798	3.95
0E01047-CAL6	1.25	10183	3.680	3.95
0E01047-CAL7	2.5	21208	3.856	3.95
0E01047-CAL8	5	42253	3.807	3.95
0E01047-CAL9	10	86567	3.711	3.95
0E01047-CALA	20	183480	4.135	3.94

AVE RF **3.852** RF RSD **4.10** AVE RT **3.95**

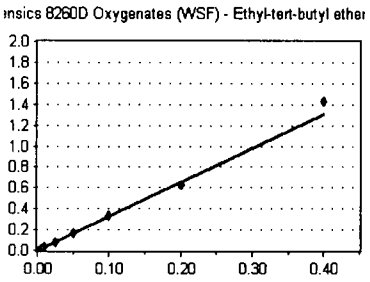
Element Calibration Review Sheet

Calibration ID: **A0E0201** Instrument: **VOA-GCMS1** Calibration Date: **05/02/2020**

Analysis: **Forensics 8260D Oxygenate** Instrument Cal ID: **A0E0201**

Ethyl-tert-butyl ether (ETBE)

Curve Fit: **AVERAGE RF**

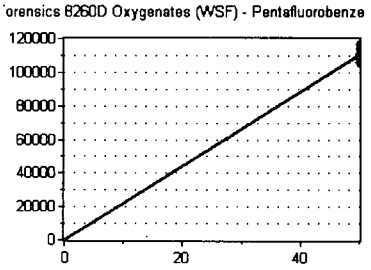


Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.025~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL2~~	~~0.05~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL3~~	~~0.1~~	~~649~~	~~2.948~~	~~4.32~~
0E01047-CAL4	0.25	1734	3.175	4.30
0E01047-CAL5	0.5	3348	3.152	4.30
0E01047-CAL6	1.25	8682	3.138	4.31
0E01047-CAL7	2.5	18720	3.404	4.31
0E01047-CAL8	5	37157	3.348	4.31
0E01047-CAL9	10	72862	3.124	4.30
0E01047-CALA	20	158707	3.577	4.30

AVE RF **3.274** RF RSD **5.29** AVE RT **4.31**

Pentafluorobenzene (ISTD)

Curve Fit: **AVERAGE RF**

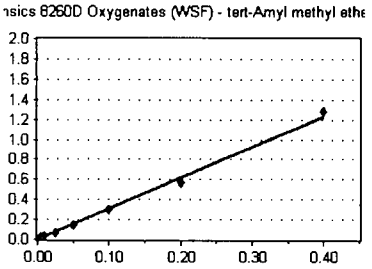


Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	50	107744	2154.880	5.53
0E01047-CAL2	50	109044	2180.880	5.53
0E01047-CAL3	50	110065	2201.300	5.53
0E01047-CAL4	50	109230	2184.600	5.53
0E01047-CAL5	50	106220	2124.400	5.53
0E01047-CAL6	50	110671	2213.420	5.53
0E01047-CAL7	50	109991	2199.820	5.53
0E01047-CAL8	50	110975	2219.500	5.53
0E01047-CAL9	50	116622	2332.440	5.53
0E01047-CALA	50	110919	2218.380	5.53
0E01047-CALB	50	113965	2279.300	5.53

AVE RF **2209.902** RF RSD **2.56** AVE RT **5.53**

tert-Amyl methyl ether (TAME)

Curve Fit: **AVERAGE RF**

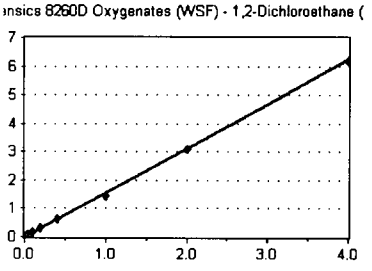


Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.025~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL2~~	~~0.05~~	~~239~~	~~2.192~~	~~0.00~~
~~0E01047-CAL3~~	~~0.1~~	~~776~~	~~3.525~~	~~5.57~~
0E01047-CAL4	0.25	1891	3.462	5.56
0E01047-CAL5	0.5	3398	3.199	5.56
0E01047-CAL6	1.25	7970	2.881	5.56
0E01047-CAL7	2.5	16574	3.014	5.56
0E01047-CAL8	5	33018	2.975	5.56
0E01047-CAL9	10	65878	2.824	5.56
0E01047-CALA	20	142245	3.206	5.56

AVE RF **3.080** RF RSD **7.22** AVE RT **5.56**

1,2-Dichloroethane (EDC)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
0E01047-CAL2	0.2	780	1.788	5.63
0E01047-CAL3	0.4	1502	1.706	5.63
0E01047-CAL4	1	3487	1.596	5.64
0E01047-CAL5	2	6353	1.495	5.63
0E01047-CAL6	5	16366	1.479	5.63
0E01047-CAL7	10	33441	1.520	5.63
0E01047-CAL8	20	67337	1.517	5.63
0E01047-CAL9	50	166593	1.428	5.63
0E01047-CALA	100	342265	1.543	5.63
0E01047-CALB	200	702335	1.541	5.63

AVE RF **1.561** RF RSD **6.98** AVE RT **5.63**

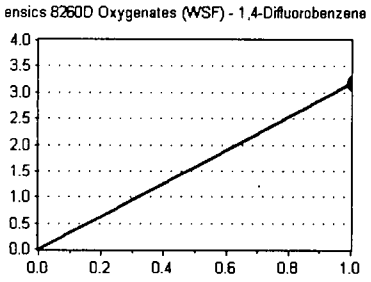
Element Calibration Review Sheet

Calibration ID: **A0E0201** Instrument: **VOA-GCMS1** Calibration Date: **05/02/2020**

Analysis: **Forensics 8260D Oxygenate** Instrument Cal ID: **A0E0201**

1,4-Difluorobenzene (Surr)

Curve Fit: **AVERAGE RF**

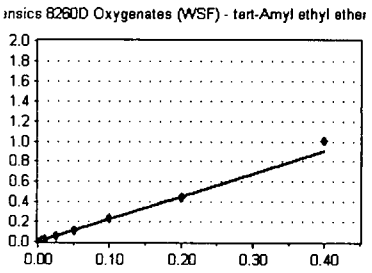


Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	50	341388	3.169	6.07
0E01047-CAL2	50	345619	3.170	6.07
0E01047-CAL3	50	345201	3.136	6.07
0E01047-CAL4	50	347946	3.185	6.07
0E01047-CAL5	50	335203	3.156	6.07
0E01047-CAL6	50	346910	3.135	6.07
0E01047-CAL7	50	347806	3.162	6.07
0E01047-CAL8	50	349480	3.149	6.07
0E01047-CAL9	50	371255	3.183	6.07
0E01047-CALA	50	349305	3.149	6.07
0E01047-CALB	50	367417	3.224	6.07

AVE RF **3.165** RF RSD **0.81** AVE RT **6.07**

tert-Amyl ethyl ether (TAEE)

Curve Fit: **AVERAGE RF**

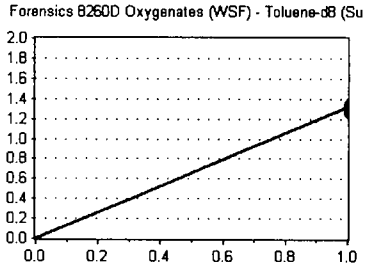


Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.025~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL2~~	~~0.05~~	~~239~~	~~2.192~~	~~0.00~~
~~0E01047-CAL3~~	~~0.1~~	~~472~~	~~2.144~~	~~6.30~~
0E01047-CAL4	0.25	1171	2.144	6.30
0E01047-CAL5	0.5	2374	2.235	6.30
0E01047-CAL6	1.25	5809	2.100	6.30
0E01047-CAL7	2.5	12709	2.311	6.30
0E01047-CAL8	5	25508	2.299	6.30
0E01047-CAL9	10	51938	2.227	6.30
0E01047-CALA	20	111624	2.516	6.30

AVE RF **2.262** RF RSD **6.00** AVE RT **6.30**

Toluene-d8 (Surr)

Curve Fit: **AVERAGE RF**

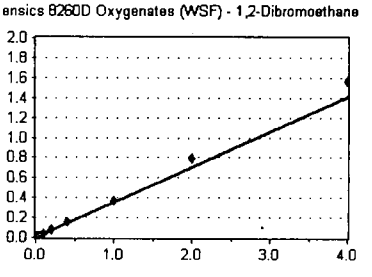


Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	50	407591	1.338	7.56
0E01047-CAL2	50	411079	1.336	7.56
0E01047-CAL3	50	410474	1.349	7.56
0E01047-CAL4	50	418241	1.324	7.56
0E01047-CAL5	50	400882	1.321	7.56
0E01047-CAL6	50	411872	1.335	7.56
0E01047-CAL7	50	416502	1.321	7.56
0E01047-CAL8	50	418138	1.320	7.56
0E01047-CAL9	50	440763	1.306	7.56
0E01047-CALA	50	414456	1.277	7.56
0E01047-CALB	50	432774	1.247	7.56

AVE RF **1.316** RF RSD **2.26** AVE RT **7.56**

1,2-Dibromoethane (EDB)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
0E01047-CAL2	0.2	379	0.308	8.74
0E01047-CAL3	0.4	790	0.324	8.75
0E01047-CAL4	1	1984	0.314	8.74
0E01047-CAL5	2	3976	0.327	8.74
0E01047-CAL6	5	10886	0.353	8.75
0E01047-CAL7	10	23352	0.370	8.75
0E01047-CAL8	20	48257	0.381	8.74
0E01047-CAL9	50	122596	0.363	8.74
0E01047-CALA	100	257735	0.397	8.74
0E01047-CALB	200	543124	0.391	8.74

AVE RF **0.353** RF RSD **9.26** AVE RT **8.74**

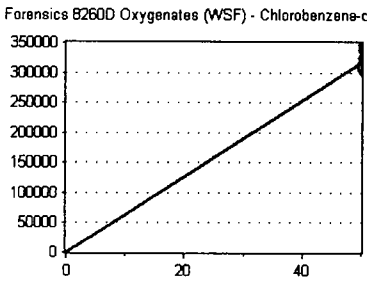
Element Calibration Review Sheet

Calibration ID: **A0E0201** Instrument: **VOA-GCMS1** Calibration Date: **05/02/2020**

Analysis: **Forensics 8260D Oxygenate** Instrument Cal ID: **A0E0201**

Chlorobenzene-d5 (ISTD)

Curve Fit: **AVERAGE RF**

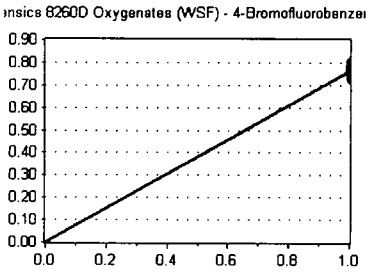


Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	50	304590	6091.800	9.30
0E01047-CAL2	50	307719	6154.380	9.30
0E01047-CAL3	50	304377	6087.540	9.30
0E01047-CAL4	50	315921	6318.420	9.30
0E01047-CAL5	50	303545	6070.900	9.30
0E01047-CAL6	50	308470	6169.400	9.30
0E01047-CAL7	50	315207	6304.140	9.30
0E01047-CAL8	50	316682	6333.640	9.30
0E01047-CAL9	50	337507	6750.140	9.30
0E01047-CALA	50	324559	6491.180	9.30
0E01047-CALB	50	347005	6940.100	9.30

AVE RF **6337.422** RF RSD **4.50** AVE RT **9.30**

4-Bromofluorobenzene (Surr)

Curve Fit: **AVERAGE RF**

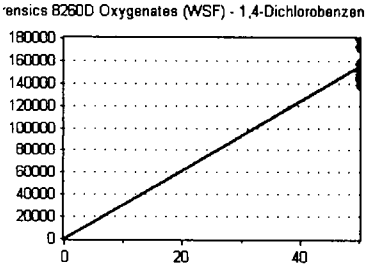


Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	50	112940	0.772	10.45
0E01047-CAL2	50	111042	0.802	10.44
0E01047-CAL3	50	111437	0.770	10.45
0E01047-CAL4	50	115482	0.784	10.44
0E01047-CAL5	50	112835	0.790	10.45
0E01047-CAL6	50	114040	0.756	10.45
0E01047-CAL7	50	119746	0.757	10.45
0E01047-CAL8	50	120565	0.770	10.45
0E01047-CAL9	50	130258	0.754	10.44
0E01047-CALA	50	124954	0.728	10.44
0E01047-CALB	50	129748	0.727	10.45

AVE RF **0.765** RF RSD **3.08** AVE RT **10.44**

1,4-Dichlorobenzene-d4 (ISTD)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	50	146274	2925.480	11.36
0E01047-CAL2	50	138383	2767.660	11.36
0E01047-CAL3	50	144646	2892.920	11.36
0E01047-CAL4	50	147392	2947.840	11.36
0E01047-CAL5	50	142814	2856.280	11.36
0E01047-CAL6	50	150765	3015.300	11.36
0E01047-CAL7	50	158156	3163.120	11.36
0E01047-CAL8	50	156505	3130.100	11.36
0E01047-CAL9	50	172652	3453.040	11.36
0E01047-CALA	50	171584	3431.680	11.36
0E01047-CALB	50	178572	3571.440	11.36

AVE RF **3104.987** RF RSD **8.73** AVE RT **11.36**

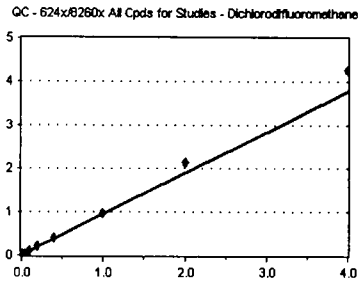
Element Calibration Review Sheet

Calibration ID: **A0E0201** Instrument: **VOA-GCMS1** Calibration Date: **05/02/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **A0E0201**

Dichlorodifluoromethane

Curve Fit: **AVERAGE RF**

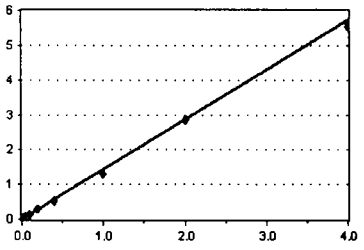


Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
0E01047-CAL2	0.2	339	0.777	1.40
0E01047-CAL3	0.4	837	0.951	1.40
0E01047-CAL4	1	1768	0.809	1.40
0E01047-CAL5	2	3436	0.809	1.40
0E01047-CAL6	5	10726	0.969	1.40
0E01047-CAL7	10	22350	1.016	1.40
0E01047-CAL8	20	44026	0.992	1.40
0E01047-CAL9	50	114330	0.980	1.40
0E01047-CALA	100	236641	1.067	1.40
0E01047-CALB	200	485999	1.066	1.40

AVE RF **0.944** RF RSD **11.38** AVE RT **1.40**

Chloromethane

Curve Fit: **AVERAGE RF**

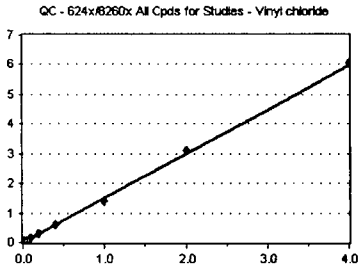


Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
0E01047-CAL2	0.2	781	1.791	1.58
0E01047-CAL3	0.4	1356	1.540	1.59
0E01047-CAL4	1	3170	1.451	1.58
0E01047-CAL5	2	5936	1.397	1.58
0E01047-CAL6	5	14279	1.290	1.58
0E01047-CAL7	10	30405	1.382	1.58
0E01047-CAL8	20	59002	1.329	1.58
0E01047-CAL9	50	153120	1.313	1.58
0E01047-CALA	100	317097	1.429	1.58
0E01047-CALB	200	633864	1.390	1.58

AVE RF **1.431** RF RSD **10.17** AVE RT **1.58**

Vinyl chloride

Curve Fit: **AVERAGE RF**

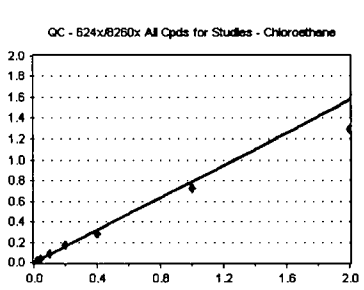


Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	0.1	327	1.517	1.65
0E01047-CAL2	0.2	721	1.653	1.65
0E01047-CAL3	0.4	1350	1.533	1.65
0E01047-CAL4	1	3070	1.405	1.65
0E01047-CAL5	2	5710	1.344	1.65
0E01047-CAL6	5	16226	1.466	1.65
0E01047-CAL7	10	33602	1.527	1.65
0E01047-CAL8	20	66549	1.499	1.65
0E01047-CAL9	50	165301	1.417	1.65
0E01047-CALA	100	342380	1.543	1.65
0E01047-CALB	200	690742	1.515	1.65

AVE RF **1.493** RF RSD **5.54** AVE RT **1.65**

Chloroethane

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL2~~	~~0.2~~	~~524~~	~~1.201~~	~~0.00~~
~~0E01047-CAL3~~	~~0.4~~	~~987~~	~~1.121~~	~~0.00~~
0E01047-CAL4	1	1977	0.905	2.08
0E01047-CAL5	2	3650	0.859	2.08
0E01047-CAL6	5	9280	0.839	2.08
0E01047-CAL7	10	18690	0.850	2.07
0E01047-CAL8	20	31338	0.706	2.07
0E01047-CAL9	50	84831	0.727	2.07
0E01047-CALA	100	143345	0.646	0.00
~~0E01047-CALB~~	~~200~~	~~246751~~	~~0.541~~	~~0.00~~

AVE RF **0.790** RF RSD **12.18** AVE RT **1.78**

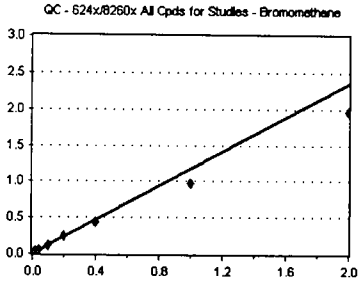
Element Calibration Review Sheet

Calibration ID: **A0E0201** Instrument: **VOA-GCMS1** Calibration Date: **05/02/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **A0E0201**

Bromomethane

Curve Fit: **AVERAGE RF**

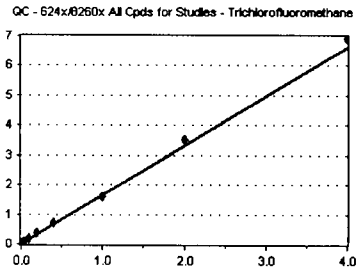


Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~323~~	~~1.499~~	~~1.96~~
~~0E01047-CAL2~~	~~0.2~~	~~655~~	~~1.502~~	~~1.95~~
0E01047-CAL3	0.4	1255	1.425	1.96
0E01047-CAL4	1	2895	1.325	1.95
0E01047-CAL5	2	5215	1.227	1.96
0E01047-CAL6	5	12852	1.161	1.96
0E01047-CAL7	10	26383	1.199	1.95
0E01047-CAL8	20	49459	1.114	1.96
0E01047-CAL9	50	114309	0.980	1.96
0E01047-CALA	100	218528	0.985	1.96
~~0E01047-CALB~~	~~200~~	~~412776~~	~~0.905~~	~~1.96~~

AVE RF **1.177** RF RSD **13.10** AVE RT **1.95**

Trichlorofluoromethane

Curve Fit: **AVERAGE RF**

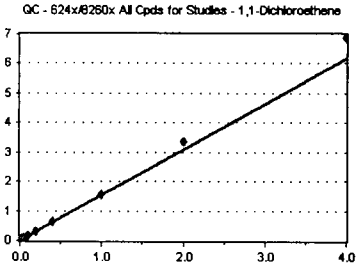


Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	0.1	259	1.202	2.22
0E01047-CAL2	0.2	756	1.733	2.21
0E01047-CAL3	0.4	1572	1.785	2.22
0E01047-CAL4	1	3399	1.556	2.22
0E01047-CAL5	2	6394	1.505	2.22
0E01047-CAL6	5	19101	1.726	2.22
0E01047-CAL7	10	40304	1.832	2.21
0E01047-CAL8	20	80115	1.805	2.21
0E01047-CAL9	50	187150	1.605	2.22
0E01047-CALA	100	391092	1.763	2.21
0E01047-CALB	200	789335	1.732	2.20

AVE RF **1.658** RF RSD **11.11** AVE RT **2.21**

1,1-Dichloroethene

Curve Fit: **AVERAGE RF**

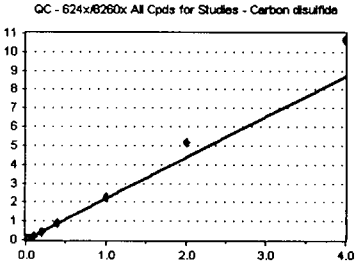


Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
0E01047-CAL2	0.2	605	1.387	2.71
0E01047-CAL3	0.4	1357	1.541	2.71
0E01047-CAL4	1	3278	1.501	2.71
0E01047-CAL5	2	6096	1.435	2.70
0E01047-CAL6	5	16636	1.503	2.71
0E01047-CAL7	10	35159	1.598	2.71
0E01047-CAL8	20	69346	1.562	2.70
0E01047-CAL9	50	179095	1.536	2.70
0E01047-CALA	100	373113	1.682	2.70
0E01047-CALB	200	783024	1.718	2.70

AVE RF **1.546** RF RSD **6.56** AVE RT **2.70**

Carbon disulfide

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~610~~	~~2.831~~	~~2.72~~
0E01047-CAL2	0.2	960	2.201	2.72
0E01047-CAL3	0.4	1815	2.061	2.72
0E01047-CAL4	1	4112	1.882	2.72
0E01047-CAL5	2	7855	1.849	2.72
0E01047-CAL6	5	21441	1.937	2.72
0E01047-CAL7	10	47033	2.138	2.72
0E01047-CAL8	20	96907	2.183	2.72
0E01047-CAL9	50	263368	2.258	2.72
0E01047-CALA	100	574442	2.589	2.72
0E01047-CALB	200	1211657	2.658	2.72

AVE RF **2.176** RF RSD **12.59** AVE RT **2.72**

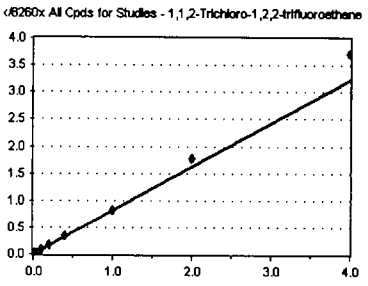
Element Calibration Review Sheet

Calibration ID: **A0E0201** Instrument: **VOA-GCMS1** Calibration Date: **05/02/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **A0E0201**

1,1,2-Trichloro-1,2,2-trifluoroetha

Curve Fit: **AVERAGE RF**

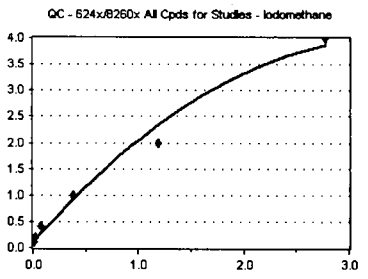


Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL2~~	~~0.2~~	~~0~~	~~0.000~~	~~0.00~~
0E01047-CAL3	0.4	598	0.679	2.77
0E01047-CAL4	1	1625	0.744	2.76
0E01047-CAL5	2	2860	0.673	2.76
0E01047-CAL6	5	9024	0.815	2.76
0E01047-CAL7	10	19337	0.879	2.76
0E01047-CAL8	20	37518	0.845	2.76
0E01047-CAL9	50	95507	0.819	2.76
0E01047-CALA	100	196624	0.886	2.76
0E01047-CALB	200	424235	0.931	2.76

AVE RF **0.808** RF RSD **11.30** AVE RT **2.76**

Iodomethane

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**

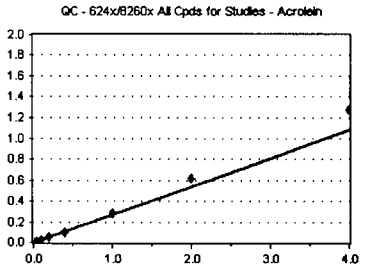


Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL2~~	~~0.2~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL3~~	~~0.4~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL4~~	~~1~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL5~~	~~2~~	~~0~~	~~0.000~~	~~0.00~~
0E01047-CAL6	5	780	7.048	2.84
0E01047-CAL7	10	2501	0.114	2.85
0E01047-CAL8	20	8485	0.191	2.84
0E01047-CAL9	50	45333	0.389	2.84
0E01047-CALA	100	131359	0.592	2.84
0E01047-CALB	200	315964	0.693	2.84

AVE RF **0.342** RF RSD **75.97** AVE RT **2.84**

Acrolein

Curve Fit: **AVERAGE RF**

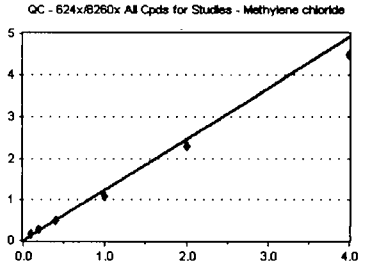


Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL2~~	~~0.2~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL3~~	~~0.4~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL4~~	~~1~~	~~430~~	~~0.197~~	~~3.06~~
0E01047-CAL5	2	957	0.225	3.06
0E01047-CAL6	5	2673	0.242	3.06
0E01047-CAL7	10	5746	0.261	3.06
0E01047-CAL8	20	11293	0.254	3.06
0E01047-CAL9	50	32154	0.276	3.06
0E01047-CALA	100	67967	0.306	3.06
0E01047-CALB	200	145519	0.319	3.06

AVE RF **0.269** RF RSD **12.61** AVE RT **3.06**

Methylene chloride

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~5715~~	~~26.521~~	~~3.29~~
~~0E01047-CAL2~~	~~0.2~~	~~4623~~	~~10.599~~	~~3.28~~
~~0E01047-CAL3~~	~~0.4~~	~~5461~~	~~6.202~~	~~3.28~~
~~0E01047-CAL4~~	~~1~~	~~7181~~	~~3.287~~	~~3.28~~
~~0E01047-CAL5~~	~~2~~	~~9465~~	~~2.228~~	~~3.29~~
0E01047-CAL6	5	16879	1.525	3.29
0E01047-CAL7	10	28712	1.305	3.28
0E01047-CAL8	20	53531	1.206	3.29
0E01047-CAL9	50	125345	1.075	3.29
0E01047-CALA	100	253627	1.143	3.29
0E01047-CALB	200	511315	1.122	3.29

AVE RF **1.229** RF RSD **13.45** AVE RT **3.29**

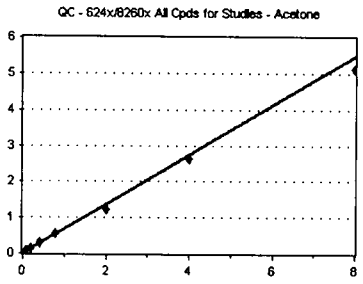
Element Calibration Review Sheet

Calibration ID: **A0E0201** Instrument: **VOA-GCMS1** Calibration Date: **05/02/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **A0E0201**

Acetone

Curve Fit: **AVERAGE RF**

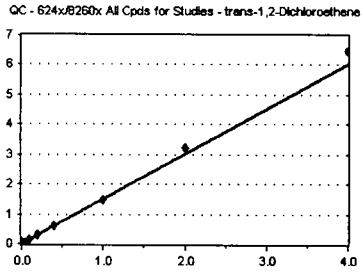


Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.2~~	~~1649~~	~~3.826~~	~~3.36~~
~~0E01047-CAL2~~	~~0.4~~	~~1737~~	~~1.991~~	~~3.36~~
~~0E01047-CAL3~~	~~0.8~~	~~2678~~	~~1.464~~	~~3.36~~
~~0E01047-CAL4~~	~~2~~	~~4069~~	~~0.931~~	~~3.36~~
0E01047-CAL5	4	6935	0.816	3.36
0E01047-CAL6	10	15302	0.691	3.35
0E01047-CAL7	20	30673	0.697	3.35
0E01047-CAL8	40	60239	0.679	3.36
0E01047-CAL9	100	143830	0.617	3.35
0E01047-CALA	200	290342	0.654	3.35
0E01047-CALB	400	585368	0.642	3.35

AVE RF **0.685** RF RSD **9.40** AVE RT **3.35**

trans-1,2-Dichloroethene

Curve Fit: **AVERAGE RF**

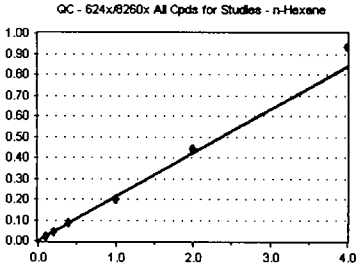


Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	0.1	315	1.462	3.44
0E01047-CAL2	0.2	670	1.536	3.44
0E01047-CAL3	0.4	1394	1.583	3.45
0E01047-CAL4	1	3117	1.427	3.44
0E01047-CAL5	2	5955	1.402	3.44
0E01047-CAL6	5	15778	1.426	3.45
0E01047-CAL7	10	34168	1.553	3.44
0E01047-CAL8	20	66791	1.505	3.44
0E01047-CAL9	50	170944	1.466	3.44
0E01047-CALA	100	356405	1.607	3.44
0E01047-CALB	200	735845	1.614	3.44

AVE RF **1.507** RF RSD **5.06** AVE RT **3.44**

n-Hexane

Curve Fit: **AVERAGE RF**

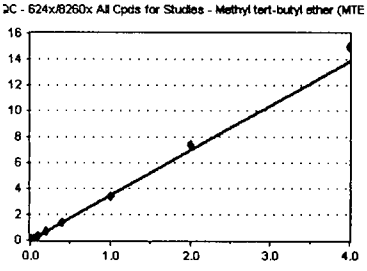


Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL2~~	~~0.2~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL3~~	~~0.4~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL4~~	~~1~~	~~135~~	~~6.180~~	~~3.52~~
~~0E01047-CAL5~~	~~2~~	~~607~~	~~0.143~~	~~3.52~~
0E01047-CAL6	5	2105	0.190	3.52
0E01047-CAL7	10	4479	0.204	3.53
0E01047-CAL8	20	9407	0.212	3.52
0E01047-CAL9	50	23038	0.198	3.53
0E01047-CALA	100	49293	0.222	3.52
0E01047-CALB	200	106769	0.234	3.52

AVE RF **0.210** RF RSD **7.76** AVE RT **3.52**

Methyl tert-butyl ether (MTBE)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
0E01047-CAL2	0.2	1643	3.767	3.58
0E01047-CAL3	0.4	3168	3.598	3.58
0E01047-CAL4	1	7150	3.273	3.57
0E01047-CAL5	2	13505	3.179	3.57
0E01047-CAL6	5	35533	3.211	3.57
0E01047-CAL7	10	75254	3.421	3.57
0E01047-CAL8	20	151575	3.415	3.57
0E01047-CAL9	50	391807	3.360	3.57
0E01047-CALA	100	815144	3.675	3.57
0E01047-CALB	200	1710060	3.751	3.57

AVE RF **3.465** RF RSD **6.34** AVE RT **3.57**

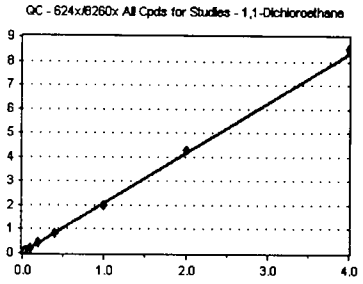
Element Calibration Review Sheet

Calibration ID: **A0E0201** Instrument: **VOA-GCMS1** Calibration Date: **05/02/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **A0E0201**

1,1-Dichloroethane

Curve Fit: **AVERAGE RF**

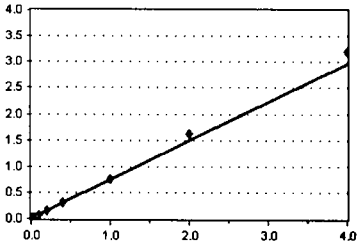


Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
0E01047-CAL2	0.2	907	2.079	4.05
0E01047-CAL3	0.4	2030	2.305	4.04
0E01047-CAL4	1	4372	2.001	4.05
0E01047-CAL5	2	8521	2.006	4.05
0E01047-CAL6	5	21734	1.964	4.04
0E01047-CAL7	10	46818	2.128	4.04
0E01047-CAL8	20	90995	2.050	4.04
0E01047-CAL9	50	229860	1.971	4.04
0E01047-CALA	100	475970	2.146	4.04
0E01047-CALB	200	971437	2.131	4.04

AVE RF **2.078** RF RSD **5.02** AVE RT **4.04**

Acrylonitrile

Curve Fit: **AVERAGE RF**

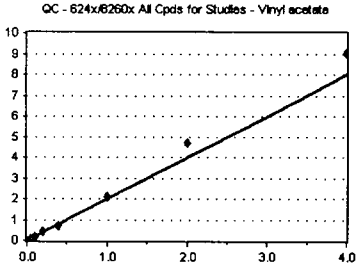


Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL2~~	~~0.2~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL3~~	~~0.4~~	~~359~~	~~0.408~~	~~4.12~~
0E01047-CAL4	1	1398	0.640	4.11
0E01047-CAL5	2	2959	0.696	4.11
0E01047-CAL6	5	7688	0.695	4.11
0E01047-CAL7	10	16920	0.769	4.11
0E01047-CAL8	20	34433	0.776	4.10
0E01047-CAL9	50	87664	0.752	4.10
0E01047-CALA	100	180648	0.814	4.10
0E01047-CALB	200	364823	0.800	4.10

AVE RF **0.743** RF RSD **8.10** AVE RT **4.11**

Vinyl acetate

Curve Fit: **AVERAGE RF**

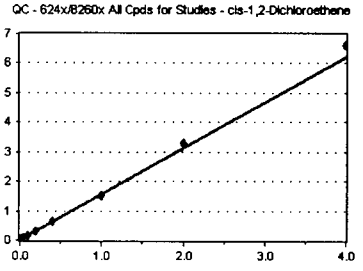


Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL2~~	~~0.2~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL3~~	~~0.4~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL4~~	~~1~~	~~2776~~	~~1.271~~	~~4.33~~
0E01047-CAL5	2	6840	1.610	4.32
0E01047-CAL6	5	20678	1.868	4.32
0E01047-CAL7	10	45570	2.072	4.32
0E01047-CAL8	20	75051	1.691	4.32
0E01047-CAL9	50	246375	2.113	4.32
0E01047-CALA	100	519167	2.340	4.32
0E01047-CALB	200	1031416	2.263	4.31

AVE RF **1.994** RF RSD **14.00** AVE RT **4.32**

cis-1,2-Dichloroethene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
0E01047-CAL2	0.2	689	1.580	4.58
0E01047-CAL3	0.4	1309	1.487	4.58
0E01047-CAL4	1	3307	1.514	4.57
0E01047-CAL5	2	6304	1.484	4.58
0E01047-CAL6	5	16859	1.523	4.58
0E01047-CAL7	10	35094	1.595	4.57
0E01047-CAL8	20	69485	1.565	4.57
0E01047-CAL9	50	175765	1.507	4.58
0E01047-CALA	100	365944	1.650	4.58
0E01047-CALB	200	754144	1.654	4.57

AVE RF **1.556** RF RSD **4.06** AVE RT **4.58**

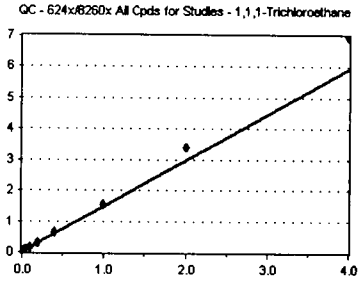
Element Calibration Review Sheet

Calibration ID: **A0E0201** Instrument: **VOA-GCMS1** Calibration Date: **05/02/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **A0E0201**

1,1,1-Trichloroethane

Curve Fit: **AVERAGE RF**

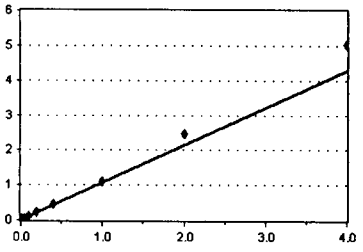


Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	0.1	251	1.165	0.00
0E01047-CAL2	0.2	518	1.188	5.05
0E01047-CAL3	0.4	1411	1.602	5.05
0E01047-CAL4	1	2918	1.336	5.05
0E01047-CAL5	2	6032	1.420	5.04
0E01047-CAL6	5	16119	1.456	5.04
0E01047-CAL7	10	34608	1.573	5.04
0E01047-CAL8	20	70669	1.592	5.04
0E01047-CAL9	50	180323	1.546	5.05
0E01047-CALA	100	378192	1.705	5.04
0E01047-CALB	200	794089	1.742	5.04

AVE RF **1.484** RF RSD **12.95** AVE RT **4.59**

2,2-Dichloropropane

Curve Fit: **AVERAGE RF**

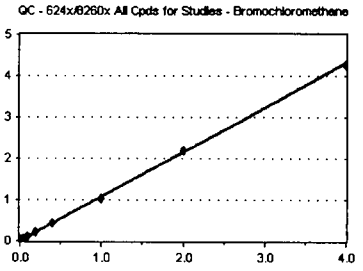


Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL2~~	~~0.2~~	~~315~~	~~0.722~~	~~4.67~~
0E01047-CAL3	0.4	844	0.959	4.69
0E01047-CAL4	1	2019	0.924	4.67
0E01047-CAL5	2	3951	0.930	4.67
0E01047-CAL6	5	11014	0.995	4.67
0E01047-CAL7	10	23768	1.080	4.68
0E01047-CAL8	20	49283	1.110	4.68
0E01047-CAL9	50	129958	1.114	4.68
0E01047-CALA	100	273590	1.233	4.67
0E01047-CALB	200	571169	1.253	4.67

AVE RF **1.067** RF RSD **11.61** AVE RT **4.68**

Bromochloromethane

Curve Fit: **AVERAGE RF**

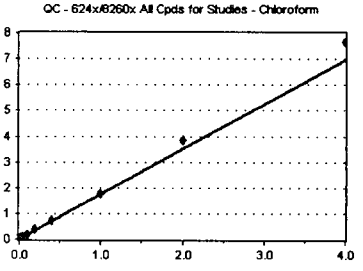


Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
0E01047-CAL2	0.2	468	1.073	4.76
0E01047-CAL3	0.4	983	1.116	4.77
0E01047-CAL4	1	2266	1.037	4.77
0E01047-CAL5	2	4519	1.064	4.77
0E01047-CAL6	5	11800	1.066	4.77
0E01047-CAL7	10	25073	1.140	4.77
0E01047-CAL8	20	48854	1.101	4.77
0E01047-CAL9	50	120012	1.029	4.77
0E01047-CALA	100	242731	1.094	4.77
0E01047-CALB	200	485408	1.065	4.77

AVE RF **1.078** RF RSD **3.19** AVE RT **4.77**

Chloroform

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
0E01047-CAL2	0.2	625	1.433	4.85
0E01047-CAL3	0.4	1385	1.573	4.85
0E01047-CAL4	1	3801	1.740	4.85
0E01047-CAL5	2	7321	1.723	4.86
0E01047-CAL6	5	18786	1.697	4.86
0E01047-CAL7	10	40834	1.856	4.85
0E01047-CAL8	20	80521	1.814	4.86
0E01047-CAL9	50	205881	1.765	4.85
0E01047-CALA	100	425160	1.917	4.86
0E01047-CALB	200	872869	1.915	4.85

AVE RF **1.743** RF RSD **8.67** AVE RT **4.85**

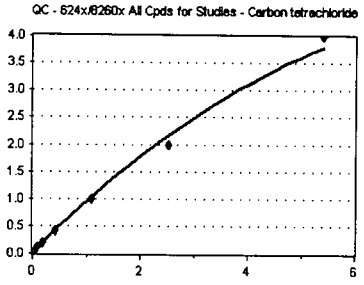
Element Calibration Review Sheet

Calibration ID: **A0E0201** Instrument: **VOA-GCMS1** Calibration Date: **05/02/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **A0E0201**

Carbon tetrachloride

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

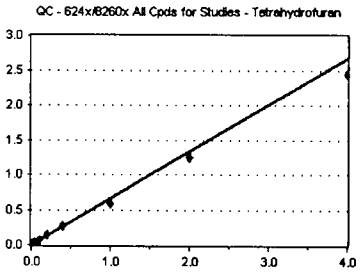


Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL2~~	~~0.2~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL3~~	~~0.4~~	~~742~~	~~0.843~~	~~4.97~~
0E01047-CAL4	1	1583	0.725	4.96
0E01047-CAL5	2	3366	0.792	4.97
0E01047-CAL6	5	9860	0.891	4.97
0E01047-CAL7	10	21825	0.992	4.98
0E01047-CAL8	20	46497	1.047	4.97
0E01047-CAL9	50	127948	1.097	4.97
0E01047-CALA	100	280150	1.263	4.97
0E01047-CALB	200	616955	1.353	4.97

AVE RF **1.020** RF RSD **21.39** AVE RT **4.97**

Tetrahydrofuran

Curve Fit: **AVERAGE RF**

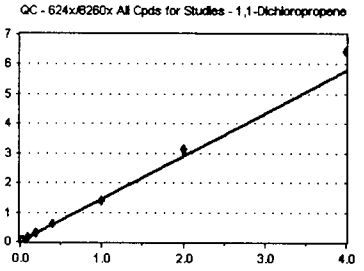


Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~215~~	~~0.998~~	~~5.03~~
~~0E01047-CAL2~~	~~0.2~~	~~395~~	~~0.906~~	~~5.02~~
~~0E01047-CAL3~~	~~0.4~~	~~815~~	~~0.926~~	~~5.03~~
0E01047-CAL4	1	1609	0.737	5.02
0E01047-CAL5	2	3063	0.721	5.03
0E01047-CAL6	5	7530	0.680	5.03
0E01047-CAL7	10	15433	0.702	5.01
0E01047-CAL8	20	29724	0.670	5.02
0E01047-CAL9	50	69716	0.598	5.01
0E01047-CALA	100	139233	0.628	5.01
0E01047-CALB	200	279297	0.613	5.01

AVE RF **0.668** RF RSD **7.67** AVE RT **5.02**

1,1-Dichloropropene

Curve Fit: **AVERAGE RF**

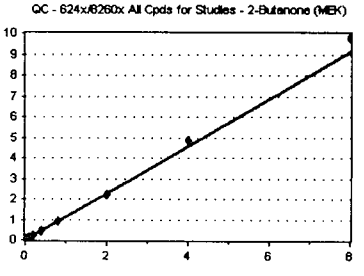


Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	0.1	250	1.160	5.18
0E01047-CAL2	0.2	643	1.474	5.18
0E01047-CAL3	0.4	1436	1.631	5.17
0E01047-CAL4	1	3083	1.411	5.17
0E01047-CAL5	2	5494	1.293	5.17
0E01047-CAL6	5	15079	1.363	5.17
0E01047-CAL7	10	32649	1.484	5.17
0E01047-CAL8	20	65530	1.476	5.17
0E01047-CAL9	50	164217	1.408	5.17
0E01047-CALA	100	346764	1.563	5.17
0E01047-CALB	200	731692	1.605	5.17

AVE RF **1.443** RF RSD **9.58** AVE RT **5.17**

2-Butanone (MEK)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.2~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL2~~	~~0.4~~	~~0~~	~~0.000~~	~~0.00~~
0E01047-CAL3	0.8	2004	1.138	5.19
0E01047-CAL4	2	4774	1.093	5.19
0E01047-CAL5	4	9403	1.107	5.18
0E01047-CAL6	10	23970	1.083	5.17
0E01047-CAL7	20	50255	1.142	5.17
0E01047-CAL8	40	104306	1.175	5.17
0E01047-CAL9	100	261092	1.119	5.17
0E01047-CALA	200	542244	1.222	5.17
0E01047-CALB	400	1113997	1.222	5.17

AVE RF **1.145** RF RSD **4.53** AVE RT **5.17**

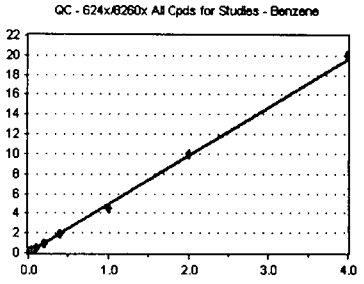
Element Calibration Review Sheet

Calibration ID: **A0E0201** Instrument: **VOA-GCMS1** Calibration Date: **05/02/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **A0E0201**

Benzene

Curve Fit: **AVERAGE RF**

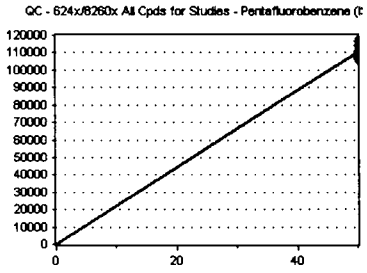


Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	0.1	1169	5.425	5.42
0E01047-CAL2	0.2	2265	5.193	5.42
0E01047-CAL3	0.4	4486	5.095	5.42
0E01047-CAL4	1	10627	4.865	5.42
0E01047-CAL5	2	19740	4.646	5.42
0E01047-CAL6	5	50838	4.594	5.42
0E01047-CAL7	10	107981	4.909	5.42
0E01047-CAL8	20	211881	4.773	5.42
0E01047-CAL9	50	533777	4.577	5.42
0E01047-CALA	100	1113497	5.019	5.42
0E01047-CALB	200	2283967	5.010	5.42

AVE RF **4.919** RF RSD **5.39** AVE RT **5.42**

Pentafluorobenzene (ISTD)

Curve Fit: **AVERAGE RF**

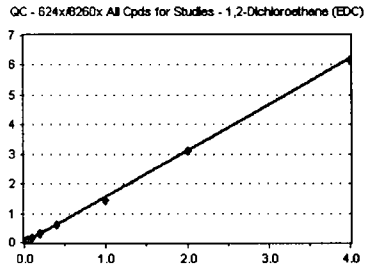


Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	50	107744	2154.880	5.53
0E01047-CAL2	50	109044	2180.880	5.53
0E01047-CAL3	50	110065	2201.300	5.53
0E01047-CAL4	50	109230	2184.600	5.53
0E01047-CAL5	50	106220	2124.400	5.53
0E01047-CAL6	50	110671	2213.420	5.53
0E01047-CAL7	50	109991	2199.820	5.53
0E01047-CAL8	50	110975	2219.500	5.53
0E01047-CAL9	50	116622	2332.440	5.53
0E01047-CALA	50	110919	2218.380	5.53
0E01047-CALB	50	113965	2279.300	5.53

AVE RF **2209.902** RF RSD **2.56** AVE RT **5.53**

1,2-Dichloroethane (EDC)

Curve Fit: **AVERAGE RF**

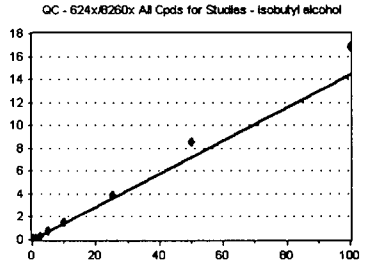


Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
0E01047-CAL2	0.2	780	1.788	5.63
0E01047-CAL3	0.4	1502	1.706	5.63
0E01047-CAL4	1	3487	1.596	5.64
0E01047-CAL5	2	6353	1.495	5.63
0E01047-CAL6	5	16366	1.479	5.63
0E01047-CAL7	10	33441	1.520	5.63
0E01047-CAL8	20	67337	1.517	5.63
0E01047-CAL9	50	166593	1.428	5.63
0E01047-CALA	100	342265	1.543	5.63
0E01047-CALB	200	702335	1.541	5.63

AVE RF **1.561** RF RSD **6.98** AVE RT **5.63**

Isobutyl alcohol

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~2.5~~	~~502~~	~~9.318~~	~~5.72~~
0E01047-CAL2	5	1386	0.127	5.71
0E01047-CAL3	10	3026	0.137	5.71
0E01047-CAL4	25	6638	0.122	5.71
0E01047-CAL5	50	13052	0.123	5.70
0E01047-CAL6	125	36796	0.133	5.70
0E01047-CAL7	250	80769	0.147	5.70
0E01047-CAL8	500	170427	0.154	5.70
0E01047-CAL9	1250	454738	0.156	5.70
0E01047-CALA	2500	952958	0.172	5.70
0E01047-CALB	5000	1915085	0.168	5.70

AVE RF **0.144** RF RSD **12.68** AVE RT **5.70**

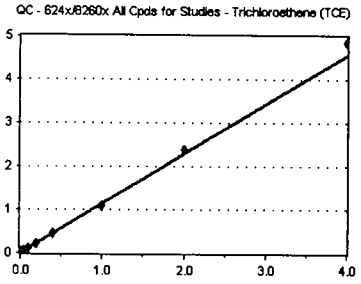
Element Calibration Review Sheet

Calibration ID: **A0E0201** Instrument: **VOA-GCMS1** Calibration Date: **05/02/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **A0E0201**

Trichloroethene (TCE)

Curve Fit: **AVERAGE RF**

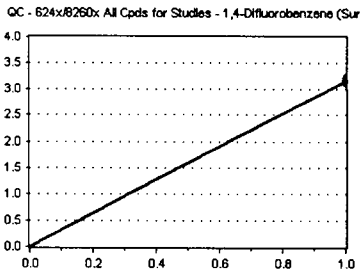


Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~149~~	~~0.681~~	~~0.00~~
0E01047-CAL2	0.2	533	1.222	6.03
0E01047-CAL3	0.4	1113	1.264	6.02
0E01047-CAL4	1	2360	1.080	6.03
0E01047-CAL5	2	4532	1.067	6.03
0E01047-CAL6	5	11515	1.040	6.02
0E01047-CAL7	10	24858	1.130	6.03
0E01047-CAL8	20	50998	1.149	6.02
0E01047-CAL9	50	125032	1.072	6.02
0E01047-CALA	100	264309	1.191	6.02
0E01047-CALB	200	555918	1.219	6.02

AVE RF **1.144** RF RSD **6.81** AVE RT **6.03**

1,4-Difluorobenzene (Surr)

Curve Fit: **AVERAGE RF**

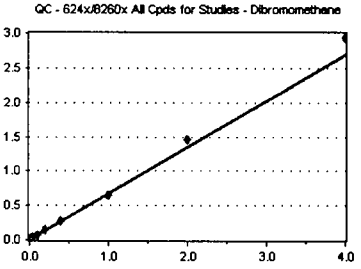


Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	50	341388	3.169	6.07
0E01047-CAL2	50	345619	3.170	6.07
0E01047-CAL3	50	345201	3.136	6.07
0E01047-CAL4	50	347946	3.185	6.07
0E01047-CAL5	50	335203	3.156	6.07
0E01047-CAL6	50	346910	3.135	6.07
0E01047-CAL7	50	347806	3.162	6.07
0E01047-CAL8	50	349480	3.149	6.07
0E01047-CAL9	50	371255	3.183	6.07
0E01047-CALA	50	349305	3.149	6.07
0E01047-CALB	50	367417	3.224	6.07

AVE RF **3.165** RF RSD **0.81** AVE RT **6.07**

Dibromomethane

Curve Fit: **AVERAGE RF**

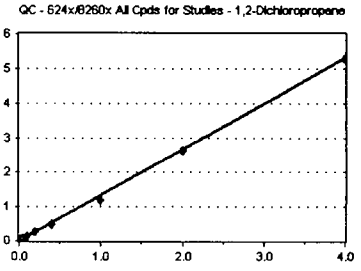


Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL2~~	~~0.2~~	~~178~~	~~0.408~~	~~6.47~~
0E01047-CAL3	0.4	562	0.638	6.46
0E01047-CAL4	1	1433	0.656	6.47
0E01047-CAL5	2	2744	0.646	6.47
0E01047-CAL6	5	7005	0.633	6.46
0E01047-CAL7	10	15187	0.690	6.46
0E01047-CAL8	20	30077	0.678	6.46
0E01047-CAL9	50	76242	0.654	6.46
0E01047-CALA	100	161086	0.726	6.46
0E01047-CALB	200	335104	0.735	6.46

AVE RF **0.673** RF RSD **5.56** AVE RT **6.46**

1,2-Dichloropropane

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	0.1	293	1.360	6.57
0E01047-CAL2	0.2	643	1.474	6.58
0E01047-CAL3	0.4	1414	1.606	6.57
0E01047-CAL4	1	2758	1.262	6.58
0E01047-CAL5	2	5543	1.305	6.58
0E01047-CAL6	5	13608	1.230	6.57
0E01047-CAL7	10	28294	1.286	6.57
0E01047-CAL8	20	55670	1.254	6.57
0E01047-CAL9	50	140883	1.208	6.57
0E01047-CALA	100	292484	1.318	6.57
0E01047-CALB	200	603078	1.323	6.57

AVE RF **1.330** RF RSD **8.76** AVE RT **6.57**

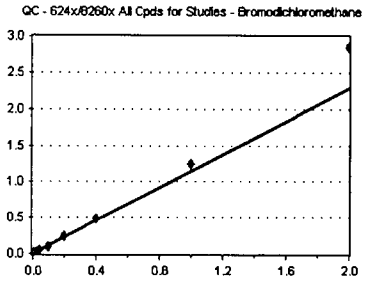
Element Calibration Review Sheet

Calibration ID: **A0E0201** Instrument: **VOA-GCMS1** Calibration Date: **05/02/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **A0E0201**

Bromodichloromethane

Curve Fit: **AVERAGE RF**

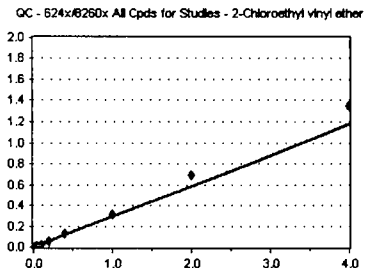


Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
0E01047-CAL2	0.2	423	0.970	6.66
0E01047-CAL3	0.4	979	1.112	6.66
0E01047-CAL4	1	2304	1.055	6.66
0E01047-CAL5	2	4415	1.039	6.66
0E01047-CAL6	5	11315	1.022	6.66
0E01047-CAL7	10	25899	1.177	6.66
0E01047-CAL8	20	53754	1.211	6.66
0E01047-CAL9	50	145382	1.247	6.66
0E01047-CALA	100	315805	1.424	6.65
~~0E01047-CALB~~	~~200~~	~~669572~~	~~1.469~~	~~6.65~~

AVE RF **1.140** RF RSD **12.38** AVE RT **6.66**

2-Chloroethyl vinyl ether

Curve Fit: **AVERAGE RF**

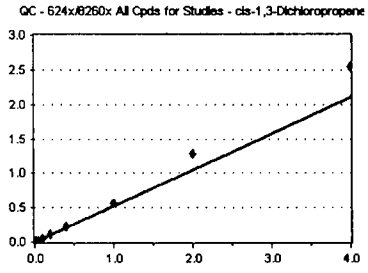


Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL2~~	~~0.2~~	~~180~~	~~0.146~~	~~7.31~~
~~0E01047-CAL3~~	~~0.4~~	~~602~~	~~0.247~~	~~7.31~~
0E01047-CAL4	1	1450	0.229	7.30
0E01047-CAL5	2	3111	0.256	7.31
0E01047-CAL6	5	8222	0.267	7.30
0E01047-CAL7	10	18238	0.289	7.30
0E01047-CAL8	20	39695	0.313	7.30
0E01047-CAL9	50	104699	0.310	7.30
0E01047-CALA	100	224376	0.346	7.30
0E01047-CALB	200	468924	0.338	7.30

AVE RF **0.294** RF RSD **13.86** AVE RT **7.30**

cis-1,3-Dichloropropene

Curve Fit: **AVERAGE RF**

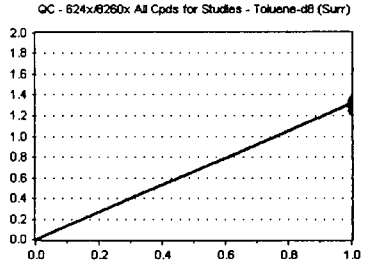


Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~195~~	~~0.320~~	~~0.00~~
0E01047-CAL2	0.2	566	0.460	7.36
0E01047-CAL3	0.4	1172	0.481	7.36
0E01047-CAL4	1	2750	0.435	7.36
0E01047-CAL5	2	5549	0.457	7.36
0E01047-CAL6	5	14722	0.477	7.36
0E01047-CAL7	10	33353	0.529	7.35
0E01047-CAL8	20	71881	0.567	7.35
0E01047-CAL9	50	194091	0.575	7.35
0E01047-CALA	100	416569	0.642	7.35
0E01047-CALB	200	882052	0.635	7.35

AVE RF **0.526** RF RSD **14.35** AVE RT **7.35**

Toluene-d8 (Surr)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	50	407591	1.338	7.56
0E01047-CAL2	50	411079	1.336	7.56
0E01047-CAL3	50	410474	1.349	7.56
0E01047-CAL4	50	418241	1.324	7.56
0E01047-CAL5	50	400882	1.321	7.56
0E01047-CAL6	50	411872	1.335	7.56
0E01047-CAL7	50	416502	1.321	7.56
0E01047-CAL8	50	418138	1.320	7.56
0E01047-CAL9	50	440763	1.306	7.56
0E01047-CALA	50	414456	1.277	7.56
0E01047-CALB	50	432774	1.247	7.56

AVE RF **1.316** RF RSD **2.26** AVE RT **7.56**

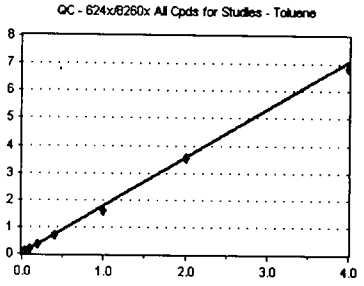
Element Calibration Review Sheet

Calibration ID: **A0E0201** Instrument: **VOA-GCMS1** Calibration Date: **05/02/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **A0E0201**

Toluene

Curve Fit: **AVERAGE RF**

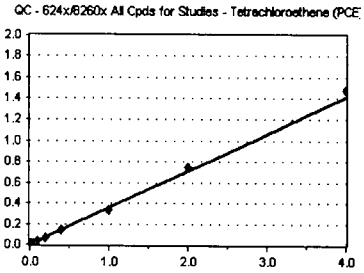


Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	0.1	1187	1.949	7.62
0E01047-CAL2	0.2	2456	1.995	7.61
0E01047-CAL3	0.4	4791	1.968	7.61
0E01047-CAL4	1	10891	1.724	7.62
0E01047-CAL5	2	20476	1.686	7.61
0E01047-CAL6	5	51650	1.674	7.61
0E01047-CAL7	10	110040	1.746	7.61
0E01047-CAL8	20	215065	1.698	7.61
0E01047-CAL9	50	545627	1.617	7.61
0E01047-CALA	100	1149553	1.771	7.61
0E01047-CALB	200	2372058	1.709	7.61

AVE RF **1.776** RF RSD **7.40** AVE RT **7.61**

Tetrachloroethene (PCE)

Curve Fit: **AVERAGE RF**

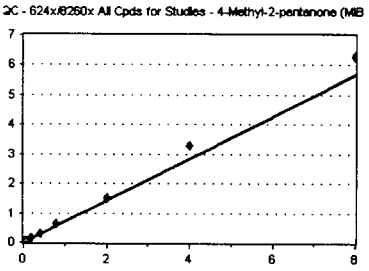


Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~161~~	~~0.264~~	~~0.00~~
0E01047-CAL2	0.2	476	0.387	8.06
0E01047-CAL3	0.4	943	0.387	8.06
0E01047-CAL4	1	2098	0.332	8.05
0E01047-CAL5	2	4010	0.330	8.06
0E01047-CAL6	5	10266	0.333	8.06
0E01047-CAL7	10	22066	0.350	8.06
0E01047-CAL8	20	44523	0.351	8.06
0E01047-CAL9	50	111941	0.332	8.05
0E01047-CALA	100	240547	0.371	8.06
0E01047-CALB	200	514776	0.371	8.06

AVE RF **0.354** RF RSD **6.48** AVE RT **8.05**

4-Methyl-2-pentanone (MiBK)

Curve Fit: **AVERAGE RF**

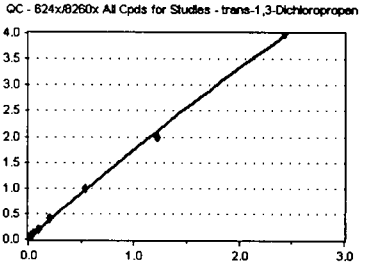


Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	0.2	671	0.551	8.09
0E01047-CAL2	0.4	1556	0.632	8.08
0E01047-CAL3	0.8	3436	0.706	8.07
0E01047-CAL4	2	8162	0.646	8.07
0E01047-CAL5	4	16070	0.662	8.08
0E01047-CAL6	10	43039	0.698	8.07
0E01047-CAL7	20	94852	0.752	8.07
0E01047-CAL8	40	198938	0.785	8.07
0E01047-CAL9	100	513286	0.760	8.07
0E01047-CALA	200	1073553	0.827	8.07
0E01047-CALB	400	2173606	0.783	8.07

AVE RF **0.709** RF RSD **11.54** AVE RT **8.08**

trans-1,3-Dichloropropene

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL2~~	~~0.2~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL3~~	~~0.4~~	~~938~~	~~0.385~~	~~8.11~~
0E01047-CAL4	1	2242	0.355	8.11
0E01047-CAL5	2	4601	0.379	8.11
0E01047-CAL6	5	13224	0.429	8.11
0E01047-CAL7	10	30669	0.486	8.11
0E01047-CAL8	20	66060	0.522	8.11
0E01047-CAL9	50	181908	0.539	8.10
0E01047-CALA	100	395259	0.609	8.10
0E01047-CALB	200	844489	0.608	8.11

AVE RF **0.491** RF RSD **19.77** AVE RT **8.11**

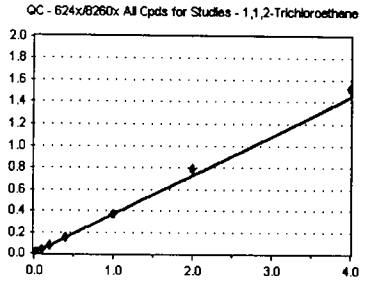
Element Calibration Review Sheet

Calibration ID: **A0E0201** Instrument: **VOA-GCMS1** Calibration Date: **05/02/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **A0E0201**

1,1,2-Trichloroethane

Curve Fit: **AVERAGE RF**

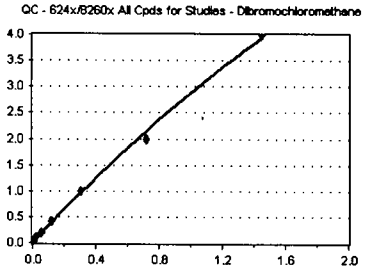


Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	0.1	173	0.284	8.29
0E01047-CAL2	0.2	424	0.344	8.29
0E01047-CAL3	0.4	925	0.380	8.29
0E01047-CAL4	1	2281	0.361	8.29
0E01047-CAL5	2	4349	0.358	8.29
0E01047-CAL6	5	11074	0.359	8.29
0E01047-CAL7	10	24190	0.384	8.29
0E01047-CAL8	20	48077	0.380	8.29
0E01047-CAL9	50	122721	0.364	8.29
0E01047-CALA	100	254688	0.392	8.29
0E01047-CALB	200	529072	0.381	8.29

AVE RF **0.362** RF RSD **8.19** AVE RT **8.29**

Dibromochloromethane

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**

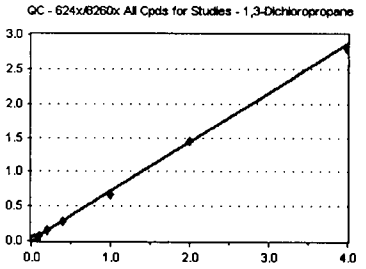


Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL2~~	~~0.2~~	~~0~~	~~0.000~~	~~0.00~~
0E01047-CAL3	0.4	513	0.211	8.49
0E01047-CAL4	1	1338	0.212	8.49
0E01047-CAL5	2	2706	0.223	8.49
0E01047-CAL6	5	7326	0.237	8.49
0E01047-CAL7	10	17270	0.274	8.49
0E01047-CAL8	20	37481	0.296	8.49
0E01047-CAL9	50	103836	0.308	8.49
0E01047-CALA	100	233426	0.360	8.49
0E01047-CALB	200	503227	0.363	8.49

AVE RF **0.276** RF RSD **21.67** AVE RT **8.49**

1,3-Dichloropropane

Curve Fit: **AVERAGE RF**

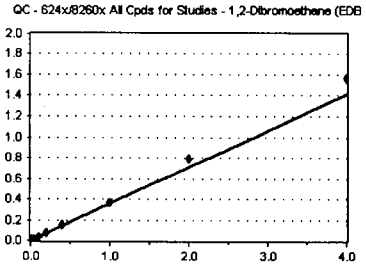


Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	0.1	474	0.778	8.60
0E01047-CAL2	0.2	907	0.737	8.62
0E01047-CAL3	0.4	1982	0.814	8.61
0E01047-CAL4	1	4406	0.697	8.60
0E01047-CAL5	2	8274	0.681	8.60
0E01047-CAL6	5	20910	0.678	8.61
0E01047-CAL7	10	44848	0.711	8.60
0E01047-CAL8	20	89646	0.708	8.60
0E01047-CAL9	50	223627	0.663	8.60
0E01047-CALA	100	469090	0.723	8.60
0E01047-CALB	200	968487	0.698	8.60

AVE RF **0.717** RF RSD **6.27** AVE RT **8.61**

1,2-Dibromoethane (EDB)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
0E01047-CAL2	0.2	379	0.308	8.74
0E01047-CAL3	0.4	790	0.324	8.75
0E01047-CAL4	1	1984	0.314	8.74
0E01047-CAL5	2	3976	0.327	8.74
0E01047-CAL6	5	10886	0.353	8.75
0E01047-CAL7	10	23352	0.370	8.75
0E01047-CAL8	20	48257	0.381	8.74
0E01047-CAL9	50	122596	0.363	8.74
0E01047-CALA	100	257735	0.397	8.74
0E01047-CALB	200	543124	0.391	8.74

AVE RF **0.353** RF RSD **9.26** AVE RT **8.74**

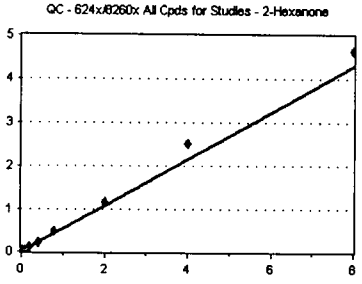
Element Calibration Review Sheet

Calibration ID: **A0E0201** Instrument: **VOA-GCMS1** Calibration Date: **05/02/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **A0E0201**

2-Hexanone

Curve Fit: **AVERAGE RF**

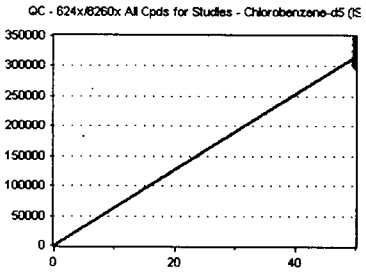


Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.2~~	~~475~~	~~0.390~~	~~9.06~~
~~0E01047-CAL2~~	~~0.4~~	~~1073~~	~~0.436~~	~~9.04~~
0E01047-CAL3	0.8	2367	0.486	9.05
0E01047-CAL4	2	5121	0.405	9.04
0E01047-CAL5	4	11381	0.469	9.04
0E01047-CAL6	10	31279	0.507	9.04
0E01047-CAL7	20	71104	0.564	9.04
0E01047-CAL8	40	151411	0.598	9.04
0E01047-CAL9	100	391377	0.580	9.04
0E01047-CALA	200	817651	0.630	9.04
0E01047-CALB	400	1614940	0.582	9.04

AVE RF **0.536** RF RSD **13.59** AVE RT **9.04**

Chlorobenzene-d5 (ISTD)

Curve Fit: **AVERAGE RF**

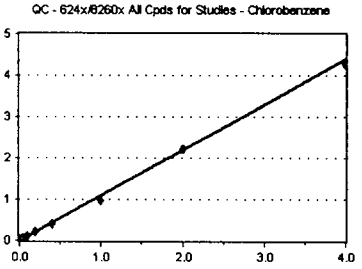


Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	50	304590	6091.800	9.30
0E01047-CAL2	50	307719	6154.380	9.30
0E01047-CAL3	50	304377	6087.540	9.30
0E01047-CAL4	50	315921	6318.420	9.30
0E01047-CAL5	50	303545	6070.900	9.30
0E01047-CAL6	50	308470	6169.400	9.30
0E01047-CAL7	50	315207	6304.140	9.30
0E01047-CAL8	50	316682	6333.640	9.30
0E01047-CAL9	50	337507	6750.140	9.30
0E01047-CALA	50	324559	6491.180	9.30
0E01047-CALB	50	347005	6940.100	9.30

AVE RF **6337.422** RF RSD **4.50** AVE RT **9.30**

Chlorobenzene

Curve Fit: **AVERAGE RF**

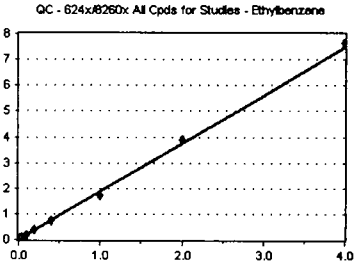


Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	0.1	805	1.321	9.32
0E01047-CAL2	0.2	1492	1.212	9.32
0E01047-CAL3	0.4	2935	1.205	9.32
0E01047-CAL4	1	6559	1.038	9.32
0E01047-CAL5	2	12716	1.047	9.32
0E01047-CAL6	5	31529	1.022	9.32
0E01047-CAL7	10	66248	1.051	9.32
0E01047-CAL8	20	132090	1.043	9.32
0E01047-CAL9	50	332680	0.986	9.32
0E01047-CALA	100	716373	1.104	9.32
0E01047-CALB	200	1479911	1.066	9.32

AVE RF **1.100** RF RSD **9.33** AVE RT **9.32**

Ethylbenzene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	0.1	1332	2.187	9.36
0E01047-CAL2	0.2	2354	1.912	9.36
0E01047-CAL3	0.4	4986	2.048	9.36
0E01047-CAL4	1	10746	1.701	9.36
0E01047-CAL5	2	20536	1.691	9.36
0E01047-CAL6	5	54300	1.760	9.36
0E01047-CAL7	10	115975	1.840	9.36
0E01047-CAL8	20	233605	1.844	9.36
0E01047-CAL9	50	587743	1.741	9.35
0E01047-CALA	100	1267193	1.952	9.35
0E01047-CALB	200	2652293	1.911	9.36

AVE RF **1.872** RF RSD **8.15** AVE RT **9.36**

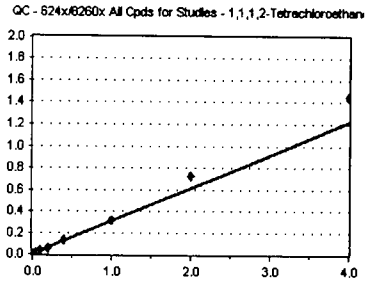
Element Calibration Review Sheet

Calibration ID: **A0E0201** Instrument: **VOA-GCMS1** Calibration Date: **05/02/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **A0E0201**

1,1,1,2-Tetrachloroethane

Curve Fit: **AVERAGE RF**

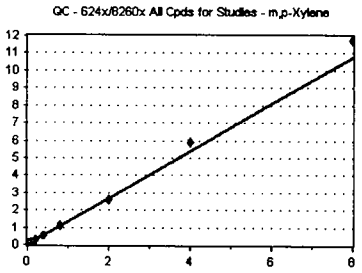


Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL2~~	~~0.2~~	~~297~~	~~0.241~~	~~9.39~~
0E01047-CAL3	0.4	712	0.292	9.39
0E01047-CAL4	1	1635	0.259	9.39
0E01047-CAL5	2	3228	0.266	9.39
0E01047-CAL6	5	8513	0.276	9.39
0E01047-CAL7	10	18577	0.295	9.39
0E01047-CAL8	20	39515	0.312	9.39
0E01047-CAL9	50	106034	0.314	9.39
0E01047-CALA	100	234754	0.362	9.39
0E01047-CALB	200	501557	0.361	9.39

AVE RF **0.304** RF RSD **12.35** AVE RT **9.39**

m,p-Xylene

Curve Fit: **AVERAGE RF**

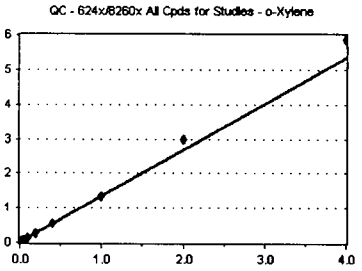


Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	0.2	1706	1.400	9.51
0E01047-CAL2	0.4	3478	1.413	9.51
0E01047-CAL3	0.8	6640	1.363	9.51
0E01047-CAL4	2	15156	1.199	9.50
0E01047-CAL5	4	29676	1.222	9.50
0E01047-CAL6	10	76797	1.245	9.50
0E01047-CAL7	20	170606	1.353	9.50
0E01047-CAL8	40	344549	1.360	9.50
0E01047-CAL9	100	876770	1.299	9.50
0E01047-CALA	200	1922162	1.481	9.50
0E01047-CALB	400	4083405	1.471	9.50

AVE RF **1.346** RF RSD **7.09** AVE RT **9.51**

o-Xylene

Curve Fit: **AVERAGE RF**

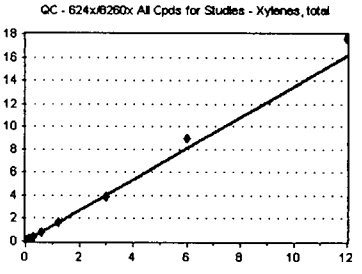


Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	0.1	819	1.344	9.92
0E01047-CAL2	0.2	1633	1.327	9.92
0E01047-CAL3	0.4	3277	1.346	9.91
0E01047-CAL4	1	7787	1.232	9.91
0E01047-CAL5	2	15108	1.244	9.91
0E01047-CAL6	5	38641	1.253	9.91
0E01047-CAL7	10	85196	1.351	9.91
0E01047-CAL8	20	174261	1.376	9.91
0E01047-CAL9	50	445380	1.320	9.91
0E01047-CALA	100	968329	1.492	9.91
0E01047-CALB	200	2033618	1.465	9.91

AVE RF **1.341** RF RSD **6.20** AVE RT **9.91**

Xylenes, total

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	0.3	2525	1.382	9.92
0E01047-CAL2	0.6	5111	1.384	9.92
0E01047-CAL3	1.2	9917	1.358	9.91
0E01047-CAL4	3	22943	1.210	9.91
0E01047-CAL5	6	44784	1.229	9.91
0E01047-CAL6	15	115438	1.247	9.91
0E01047-CAL7	30	255802	1.353	9.91
0E01047-CAL8	60	518810	1.365	9.91
0E01047-CAL9	150	1322150	1.306	9.91
0E01047-CALA	300	2890491	1.484	9.91
0E01047-CALB	600	6117023	1.469	9.91

AVE RF **1.344** RF RSD **6.69** AVE RT **9.91**

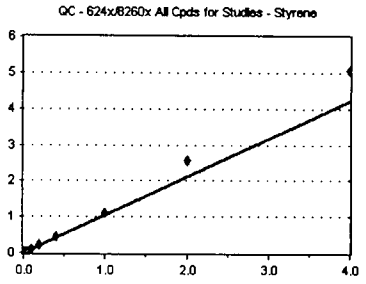
Element Calibration Review Sheet

Calibration ID: **A0E0201** Instrument: **VOA-GCMS1** Calibration Date: **05/02/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **A0E0201**

Styrene

Curve Fit: **AVERAGE RF**

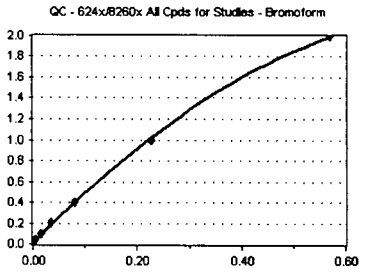


Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~522~~	~~0.857~~	~~9.97~~
~~0E01047-CAL2~~	~~0.2~~	~~1073~~	~~0.872~~	~~9.97~~
0E01047-CAL3	0.4	2330	0.957	9.97
0E01047-CAL4	1	5321	0.842	9.97
0E01047-CAL5	2	10923	0.900	9.97
0E01047-CAL6	5	30339	0.984	9.97
0E01047-CAL7	10	67314	1.068	9.97
0E01047-CAL8	20	139802	1.104	9.97
0E01047-CAL9	50	367477	1.089	9.96
0E01047-CALA	100	827008	1.274	9.96
0E01047-CALB	200	1755481	1.265	9.97

AVE RF **1.053** RF RSD **14.23** AVE RT **9.96**

Bromoform

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**

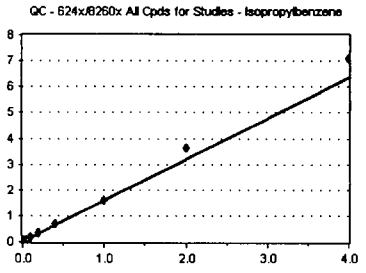


Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL2~~	~~0.2~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL3~~	~~0.4~~	~~0~~	~~0.000~~	~~0.00~~
0E01047-CAL4	1	752	0.119	9.97
0E01047-CAL5	2	1628	0.134	9.97
0E01047-CAL6	5	4997	0.162	9.98
0E01047-CAL7	10	10844	0.172	9.97
0E01047-CAL8	20	25504	0.201	9.97
0E01047-CAL9	50	77103	0.228	9.97
0E01047-CALA	100	184925	0.285	9.97
~~0E01047-CALB~~	~~200~~	~~421197~~	~~0.303~~	~~9.97~~

AVE RF **0.186** RF RSD **30.87** AVE RT **9.97**

Isopropylbenzene

Curve Fit: **AVERAGE RF**

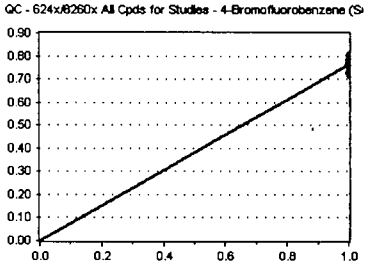


Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	0.1	909	1.492	10.20
0E01047-CAL2	0.2	1760	1.430	10.20
0E01047-CAL3	0.4	3875	1.591	10.20
0E01047-CAL4	1	8668	1.372	10.20
0E01047-CAL5	2	17325	1.427	10.20
0E01047-CAL6	5	47983	1.556	10.20
0E01047-CAL7	10	104717	1.661	10.20
0E01047-CAL8	20	214881	1.696	10.20
0E01047-CAL9	50	541333	1.604	10.20
0E01047-CALA	100	1181912	1.821	10.20
0E01047-CALB	200	2466431	1.777	10.20

AVE RF **1.584** RF RSD **9.26** AVE RT **10.20**

4-Bromofluorobenzene (Surr)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	50	112940	0.772	10.45
0E01047-CAL2	50	111042	0.802	10.44
0E01047-CAL3	50	111437	0.770	10.45
0E01047-CAL4	50	115482	0.784	10.44
0E01047-CAL5	50	112835	0.790	10.45
0E01047-CAL6	50	114040	0.756	10.45
0E01047-CAL7	50	119746	0.757	10.45
0E01047-CAL8	50	120565	0.770	10.45
0E01047-CAL9	50	130258	0.754	10.44
0E01047-CALA	50	124954	0.728	10.44
0E01047-CALB	50	129748	0.727	10.45

AVE RF **0.765** RF RSD **3.08** AVE RT **10.44**

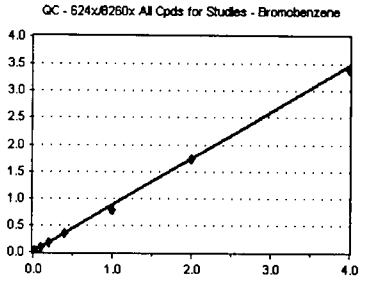
Element Calibration Review Sheet

Calibration ID: **A0E0201** Instrument: **VOA-GCMS1** Calibration Date: **05/02/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **A0E0201**

Bromobenzene

Curve Fit: **AVERAGE RF**

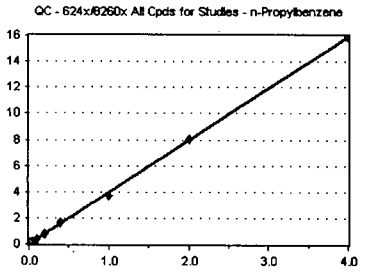


Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	0.1	293	1.002	10.52
0E01047-CAL2	0.2	539	0.974	10.53
0E01047-CAL3	0.4	1126	0.973	10.53
0E01047-CAL4	1	2425	0.823	10.53
0E01047-CAL5	2	4603	0.806	10.53
0E01047-CAL6	5	12125	0.804	10.53
0E01047-CAL7	10	26415	0.835	10.53
0E01047-CAL8	20	53243	0.850	10.53
0E01047-CAL9	50	136109	0.788	10.53
0E01047-CALA	100	297732	0.868	10.53
0E01047-CALB	200	606330	0.849	10.53

AVE RF **0.870** RF RSD **8.76** AVE RT **10.52**

n-Propylbenzene

Curve Fit: **AVERAGE RF**

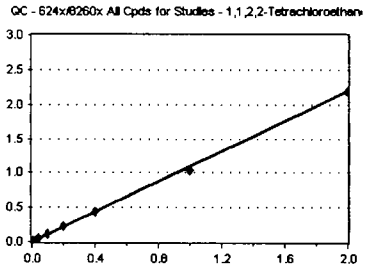


Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	0.1	1312	4.485	10.57
0E01047-CAL2	0.2	2460	4.444	10.56
0E01047-CAL3	0.4	4887	4.223	10.57
0E01047-CAL4	1	10717	3.636	10.56
0E01047-CAL5	2	20386	3.569	10.56
0E01047-CAL6	5	55957	3.712	10.56
0E01047-CAL7	10	124648	3.941	10.56
0E01047-CAL8	20	253278	4.046	10.56
0E01047-CAL9	50	637577	3.693	10.56
0E01047-CALA	100	1385584	4.038	10.56
0E01047-CALB	200	2842165	3.979	10.56

AVE RF **3.979** RF RSD **7.87** AVE RT **10.56**

1,1,2,2-Tetrachloroethane

Curve Fit: **AVERAGE RF**

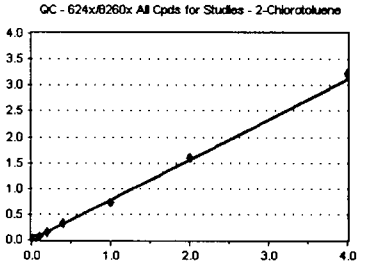


Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	0.1	290	0.991	10.63
0E01047-CAL2	0.2	643	1.162	10.63
0E01047-CAL3	0.4	1478	1.277	10.63
0E01047-CAL4	1	3132	1.062	10.63
0E01047-CAL5	2	6340	1.110	10.64
0E01047-CAL6	5	16264	1.079	10.63
0E01047-CAL7	10	34642	1.095	10.63
0E01047-CAL8	20	68008	1.086	10.63
0E01047-CAL9	50	180075	1.043	10.63
0E01047-CALA	100	375668	1.095	10.63
~~0E01047-CALB~~	~~200~~	~~753451~~	~~1.055~~	~~10.64~~

AVE RF **1.100** RF RSD **6.94** AVE RT **10.63**

2-Chlorotoluene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	0.1	191	0.653	10.69
0E01047-CAL2	0.2	514	0.929	10.69
0E01047-CAL3	0.4	995	0.860	10.68
0E01047-CAL4	1	2120	0.719	10.68
0E01047-CAL5	2	4417	0.773	10.69
0E01047-CAL6	5	11036	0.732	10.69
0E01047-CAL7	10	24592	0.777	10.68
0E01047-CAL8	20	49268	0.787	10.68
0E01047-CAL9	50	126487	0.733	10.68
0E01047-CALA	100	276093	0.805	10.68
0E01047-CALB	200	575024	0.805	10.68

AVE RF **0.779** RF RSD **9.45** AVE RT **10.69**

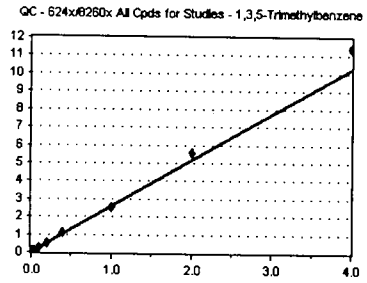
Element Calibration Review Sheet

Calibration ID: **A0E0201** Instrument: **VOA-GCMS1** Calibration Date: **05/02/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **A0E0201**

1,3,5-Trimethylbenzene

Curve Fit: **AVERAGE RF**

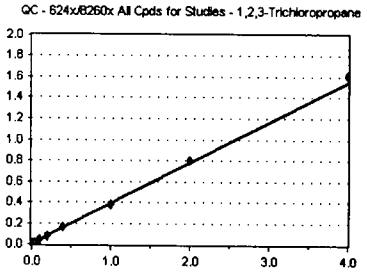


Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	0.1	792	2.707	10.73
0E01047-CAL2	0.2	1396	2.522	10.73
0E01047-CAL3	0.4	2873	2.483	10.73
0E01047-CAL4	1	6636	2.251	10.73
0E01047-CAL5	2	13431	2.351	10.73
0E01047-CAL6	5	37400	2.481	10.73
0E01047-CAL7	10	82684	2.614	10.73
0E01047-CAL8	20	169602	2.709	10.73
0E01047-CAL9	50	435306	2.521	10.73
0E01047-CALA	100	953843	2.780	10.73
0E01047-CALB	200	2033658	2.847	10.73

AVE RF **2.570** RF RSD **7.08** AVE RT **10.73**

1,2,3-Trichloropropane

Curve Fit: **AVERAGE RF**

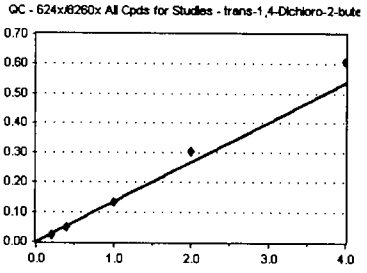


Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
0E01047-CAL2	0.2	205	0.370	10.73
0E01047-CAL3	0.4	469	0.405	10.73
0E01047-CAL4	1	1077	0.365	10.73
0E01047-CAL5	2	2177	0.381	10.73
0E01047-CAL6	5	5809	0.385	10.73
0E01047-CAL7	10	12204	0.386	10.73
0E01047-CAL8	20	25379	0.405	10.73
0E01047-CAL9	50	64463	0.373	10.73
0E01047-CALA	100	137041	0.399	10.73
0E01047-CALB	200	287298	0.402	10.73

AVE RF **0.387** RF RSD **3.87** AVE RT **10.73**

trans-1,4-Dichloro-2-butene

Curve Fit: **AVERAGE RF**

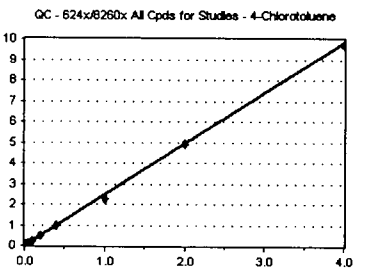


Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL2~~	~~0.2~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL3~~	~~0.4~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL4~~	~~1~~	~~189~~	~~6.411~~	~~10.78~~
~~0E01047-CAL5~~	~~2~~	~~500~~	~~8.753~~	~~10.78~~
~~0E01047-CAL6~~	~~5~~	~~1356~~	~~0.090~~	~~10.78~~
0E01047-CAL7	10	3488	0.110	10.78
0E01047-CAL8	20	7849	0.125	10.78
0E01047-CAL9	50	22692	0.131	10.78
0E01047-CALA	100	51654	0.151	10.78
0E01047-CALB	200	108502	0.152	10.78

AVE RF **0.134** RF RSD **13.14** AVE RT **10.78**

4-Chlorotoluene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	0.1	780	2.666	10.83
0E01047-CAL2	0.2	1446	2.612	10.82
0E01047-CAL3	0.4	3235	2.796	10.83
0E01047-CAL4	1	6952	2.358	10.82
0E01047-CAL5	2	13328	2.333	10.82
0E01047-CAL6	5	34933	2.317	10.82
0E01047-CAL7	10	75693	2.393	10.82
0E01047-CAL8	20	154315	2.465	10.82
0E01047-CAL9	50	396126	2.294	10.82
0E01047-CALA	100	844429	2.461	10.82
0E01047-CALB	200	1736355	2.431	10.82

AVE RF **2.466** RF RSD **6.51** AVE RT **10.82**

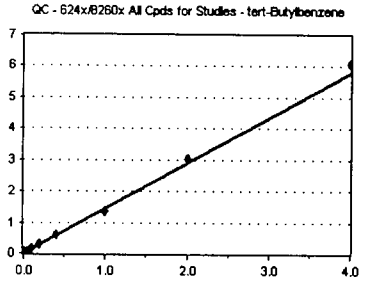
Element Calibration Review Sheet

Calibration ID: **A0E0201** Instrument: **VOA-GCMS1** Calibration Date: **05/02/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **A0E0201**

tert-Butylbenzene

Curve Fit: **AVERAGE RF**

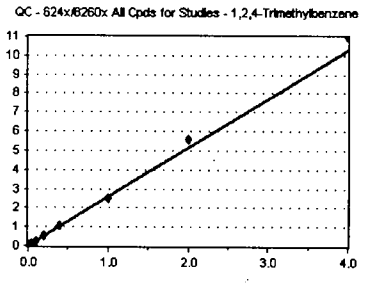


Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	0.1	425	1.453	10.99
0E01047-CAL2	0.2	879	1.588	10.99
0E01047-CAL3	0.4	1667	1.441	10.99
0E01047-CAL4	1	3939	1.336	10.99
0E01047-CAL5	2	7569	1.325	10.99
0E01047-CAL6	5	20567	1.364	10.99
0E01047-CAL7	10	45819	1.449	10.99
0E01047-CAL8	20	94374	1.508	10.99
0E01047-CAL9	50	238115	1.379	10.99
0E01047-CALA	100	518385	1.511	10.99
0E01047-CALB	200	1087074	1.522	10.99

AVE RF **1.443** RF RSD **5.87** AVE RT **10.99**

1,2,4-Trimethylbenzene

Curve Fit: **AVERAGE RF**

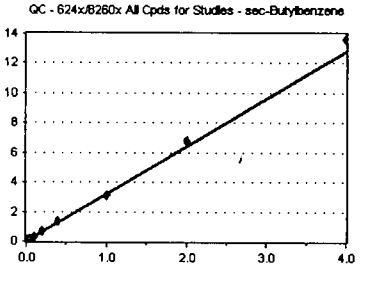


Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	0.1	726	2.482	11.05
0E01047-CAL2	0.2	1461	2.639	11.05
0E01047-CAL3	0.4	2937	2.538	11.05
0E01047-CAL4	1	6878	2.333	11.05
0E01047-CAL5	2	13825	2.420	11.05
0E01047-CAL6	5	37657	2.498	11.05
0E01047-CAL7	10	82706	2.615	11.05
0E01047-CAL8	20	170486	2.723	11.05
0E01047-CAL9	50	435602	2.523	11.05
0E01047-CALA	100	957241	2.789	11.05
0E01047-CALB	200	1960243	2.744	11.05

AVE RF **2.573** RF RSD **5.54** AVE RT **11.05**

sec-Butylbenzene

Curve Fit: **AVERAGE RF**

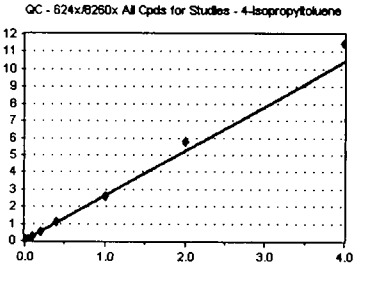


Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	0.1	911	3.114	11.13
0E01047-CAL2	0.2	1910	3.451	11.14
0E01047-CAL3	0.4	3482	3.009	11.13
0E01047-CAL4	1	8453	2.868	11.13
0E01047-CAL5	2	16518	2.892	11.13
0E01047-CAL6	5	47200	3.131	11.13
0E01047-CAL7	10	104348	3.299	11.13
0E01047-CAL8	20	213565	3.411	11.13
0E01047-CAL9	50	541445	3.136	11.13
0E01047-CALA	100	1172498	3.417	11.13
0E01047-CALB	200	2432667	3.406	11.13

AVE RF **3.194** RF RSD **6.75** AVE RT **11.13**

4-Isopropyltoluene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	0.1	799	2.731	11.25
0E01047-CAL2	0.2	1432	2.587	11.25
0E01047-CAL3	0.4	2839	2.453	11.24
0E01047-CAL4	1	6685	2.268	11.25
0E01047-CAL5	2	13270	2.323	11.25
0E01047-CAL6	5	36771	2.439	11.25
0E01047-CAL7	10	84078	2.658	11.25
0E01047-CAL8	20	177293	2.832	11.25
0E01047-CAL9	50	448886	2.600	11.25
0E01047-CALA	100	988573	2.881	11.25
0E01047-CALB	200	2052887	2.874	11.25

AVE RF **2.604** RF RSD **8.26** AVE RT **11.25**

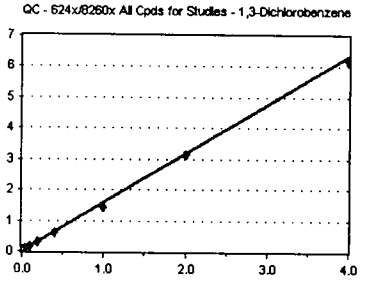
Element Calibration Review Sheet

Calibration ID: **A0E0201** Instrument: **VOA-GCMS1** Calibration Date: **05/02/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **A0E0201**

1,3-Dichlorobenzene

Curve Fit: **AVERAGE RF**

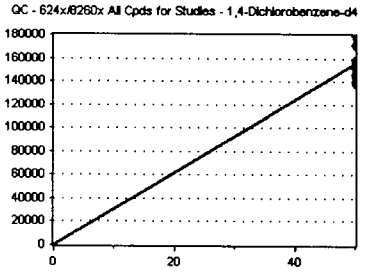


Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	0.1	506	1.730	11.30
0E01047-CAL2	0.2	1065	1.924	11.30
0E01047-CAL3	0.4	1917	1.657	11.30
0E01047-CAL4	1	4420	1.499	11.30
0E01047-CAL5	2	8568	1.500	11.30
0E01047-CAL6	5	21939	1.455	11.30
0E01047-CAL7	10	49015	1.550	11.30
0E01047-CAL8	20	97504	1.558	11.30
0E01047-CAL9	50	249685	1.446	11.30
0E01047-CALA	100	541283	1.577	11.30
0E01047-CALB	200	1099665	1.540	11.30

AVE RF **1.585** RF RSD **8.83** AVE RT **11.30**

1,4-Dichlorobenzene-d4 (ISTD)

Curve Fit: **AVERAGE RF**

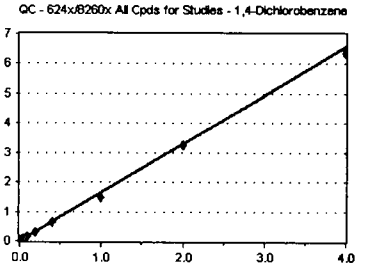


Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	50	146274	2925.480	11.36
0E01047-CAL2	50	138383	2767.660	11.36
0E01047-CAL3	50	144646	2892.920	11.36
0E01047-CAL4	50	147392	2947.840	11.36
0E01047-CAL5	50	142814	2856.280	11.36
0E01047-CAL6	50	150765	3015.300	11.36
0E01047-CAL7	50	158156	3163.120	11.36
0E01047-CAL8	50	156505	3130.100	11.36
0E01047-CAL9	50	172652	3453.040	11.36
0E01047-CALA	50	171584	3431.680	11.36
0E01047-CALB	50	178572	3571.440	11.36

AVE RF **3104.987** RF RSD **8.73** AVE RT **11.36**

1,4-Dichlorobenzene

Curve Fit: **AVERAGE RF**

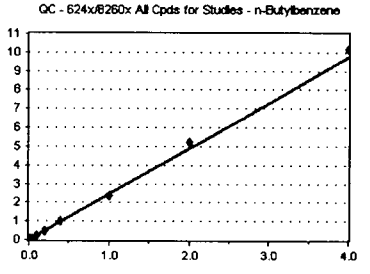


Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~665~~	~~2.273~~	~~11.37~~
0E01047-CAL2	0.2	1143	2.065	11.37
0E01047-CAL3	0.4	2118	1.830	11.37
0E01047-CAL4	1	4667	1.583	11.37
0E01047-CAL5	2	9024	1.580	11.37
0E01047-CAL6	5	23301	1.546	11.37
0E01047-CAL7	10	49457	1.564	11.37
0E01047-CAL8	20	100849	1.611	11.37
0E01047-CAL9	50	255131	1.478	11.37
0E01047-CALA	100	557052	1.623	11.37
0E01047-CALB	200	1137196	1.592	11.37

AVE RF **1.647** RF RSD **10.47** AVE RT **11.37**

n-Butylbenzene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	0.1	784	2.680	11.58
0E01047-CAL2	0.2	1541	2.784	11.57
0E01047-CAL3	0.4	2765	2.389	11.58
0E01047-CAL4	1	5999	2.035	11.57
0E01047-CAL5	2	12084	2.115	11.57
0E01047-CAL6	5	33821	2.243	11.58
0E01047-CAL7	10	77346	2.445	11.58
0E01047-CAL8	20	161070	2.573	11.57
0E01047-CAL9	50	405867	2.351	11.57
0E01047-CALA	100	894213	2.606	11.57
0E01047-CALB	200	1818583	2.546	11.57

AVE RF **2.433** RF RSD **9.64** AVE RT **11.57**

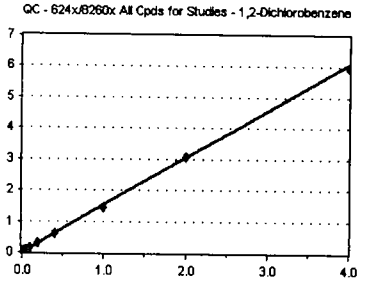
Element Calibration Review Sheet

Calibration ID: **A0E0201** Instrument: **VOA-GCMS1** Calibration Date: **05/02/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **A0E0201**

1,2-Dichlorobenzene

Curve Fit: **AVERAGE RF**

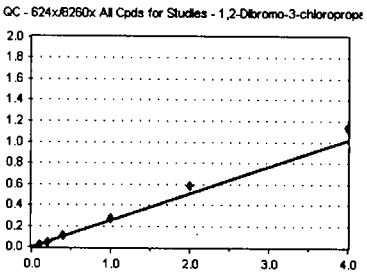


Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	0.1	425	1.453	11.70
0E01047-CAL2	0.2	965	1.743	11.69
0E01047-CAL3	0.4	1929	1.667	11.69
0E01047-CAL4	1	4175	1.416	11.69
0E01047-CAL5	2	8655	1.515	11.69
0E01047-CAL6	5	21370	1.417	11.69
0E01047-CAL7	10	47726	1.509	11.69
0E01047-CAL8	20	95928	1.532	11.69
0E01047-CAL9	50	246395	1.427	11.69
0E01047-CALA	100	527455	1.537	11.69
0E01047-CALB	200	1066918	1.494	11.69

AVE RF **1.519** RF RSD **6.82** AVE RT **11.69**

1,2-Dibromo-3-chloropropane

Curve Fit: **AVERAGE RF**

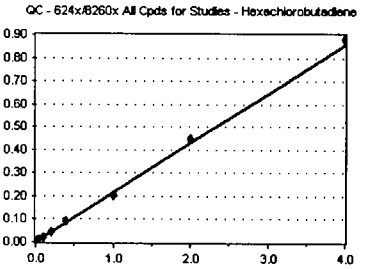


Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL2~~	~~0.2~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL3~~	~~0.4~~	~~209~~	~~0.181~~	~~12.29~~
~~0E01047-CAL4~~	~~1~~	~~558~~	~~0.189~~	~~12.30~~
~~0E01047-CAL5~~	~~2~~	~~1026~~	~~0.180~~	~~12.29~~
0E01047-CAL6	5	3101	0.206	12.29
0E01047-CAL7	10	6943	0.219	12.29
0E01047-CAL8	20	16133	0.258	12.29
0E01047-CAL9	50	46313	0.268	12.29
0E01047-CALA	100	99437	0.290	12.29
0E01047-CALB	200	203360	0.285	12.29

AVE RF **0.254** RF RSD **13.58** AVE RT **12.29**

Hexachlorobutadiene

Curve Fit: **AVERAGE RF**

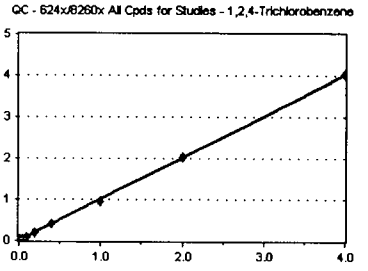


Standard	Concentration	Response	Response Factor	RT
~~0E01047-CAL1~~	~~0.1~~	~~0~~	~~0.000~~	~~0.00~~
~~0E01047-CAL2~~	~~0.2~~	~~107~~	~~0.193~~	~~12.78~~
~~0E01047-CAL3~~	~~0.4~~	~~138~~	~~0.119~~	~~12.80~~
0E01047-CAL4	1	611	0.207	12.79
0E01047-CAL5	2	1131	0.198	12.79
0E01047-CAL6	5	3217	0.213	12.79
0E01047-CAL7	10	6905	0.218	12.79
0E01047-CAL8	20	14319	0.229	12.79
0E01047-CAL9	50	35386	0.205	12.79
0E01047-CALA	100	77176	0.225	12.79
0E01047-CALB	200	157201	0.220	12.79

AVE RF **0.214** RF RSD **4.90** AVE RT **12.79**

1,2,4-Trichlorobenzene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	0.1	367	1.254	12.81
0E01047-CAL2	0.2	677	1.223	12.81
0E01047-CAL3	0.4	1147	0.991	12.81
0E01047-CAL4	1	2653	0.900	12.81
0E01047-CAL5	2	5124	0.897	12.81
0E01047-CAL6	5	13260	0.880	12.81
0E01047-CAL7	10	30350	0.959	12.81
0E01047-CAL8	20	63091	1.008	12.81
0E01047-CAL9	50	161483	0.935	12.81
0E01047-CALA	100	348073	1.014	12.81
0E01047-CALB	200	720697	1.009	12.81

AVE RF **1.006** RF RSD **12.39** AVE RT **12.81**

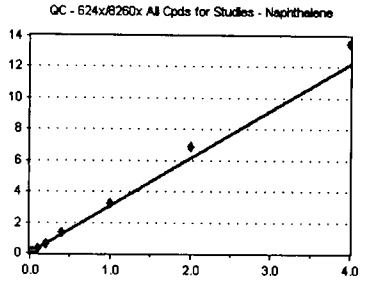
Element Calibration Review Sheet

Calibration ID: **A0E0201** Instrument: **VOA-GCMS1** Calibration Date: **05/02/2020**

Analysis: **QC - 624x/8260x All Cpds fo** Instrument Cal ID: **A0E0201**

Naphthalene

Curve Fit: **AVERAGE RF**

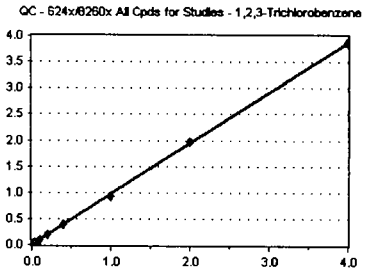


Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	0.1	898	3.070	13.08
0E01047-CAL2	0.2	1610	2.909	13.08
0E01047-CAL3	0.4	3231	2.792	13.08
0E01047-CAL4	1	7373	2.501	13.08
0E01047-CAL5	2	15421	2.699	13.07
0E01047-CAL6	5	42651	2.829	13.07
0E01047-CAL7	10	101118	3.197	13.07
0E01047-CAL8	20	217424	3.473	13.07
0E01047-CAL9	50	567493	3.287	13.08
0E01047-CALA	100	1180224	3.439	13.07
0E01047-CALB	200	2424736	3.395	13.07

AVE RF **3.054** RF RSD **10.79** AVE RT **13.08**

1,2,3-Trichlorobenzene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0E01047-CAL1	0.1	343	1.172	13.23
0E01047-CAL2	0.2	639	1.154	13.23
0E01047-CAL3	0.4	1078	0.932	13.23
0E01047-CAL4	1	2390	0.811	13.23
0E01047-CAL5	2	4968	0.870	13.23
0E01047-CAL6	5	13462	0.893	13.23
0E01047-CAL7	10	30361	0.960	13.23
0E01047-CAL8	20	62525	0.999	13.23
0E01047-CAL9	50	159617	0.925	13.23
0E01047-CALA	100	337071	0.982	13.23
0E01047-CALB	200	691681	0.968	13.23

AVE RF **0.970** RF RSD **11.34** AVE RT **13.23**

Calibration Status Report VOA-GCMS1

Method Path : C:\msdchem\1\METHODS\
Method File : VA200501G.M
Title : NWTPH-Gx by GC/MS
Last Update : Sat May 02 09:48:06 2020
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	1	50	50	C:\msdchem\1\DATA\2020-05\0E01047\VA20050126.D
2	2	100	50	C:\msdchem\1\DATA\2020-05\0E01047\VA20050127.D
3	3	250	50	C:\msdchem\1\DATA\2020-05\0E01047\VA20050128.D
4	4	500	50	C:\msdchem\1\DATA\2020-05\0E01047\VA20050129.D
5	5	1000	50	C:\msdchem\1\DATA\2020-05\0E01047\VA20050130.D
6	6	2500	50	C:\msdchem\1\DATA\2020-05\0E01047\VA20050131.D
7	7	5000	50	C:\msdchem\1\DATA\2020-05\0E01047\VA20050132.D
8	8	10000	50	C:\msdchem\1\DATA\2020-05\0E01047\VA20050133.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	May 02 09:48 2020	May 02 09:41 2020	
2	2	May 02 09:48 2020	May 02 09:41 2020	
3	3	May 02 09:48 2020	May 02 09:41 2020	
4	4	May 02 09:48 2020	May 02 09:41 2020	
5	5	May 02 09:48 2020	May 02 09:41 2020	
6	6	May 02 09:48 2020	May 02 09:41 2020	
7	7	May 02 09:48 2020	May 02 09:41 2020	
8	8	May 02 09:48 2020	May 02 09:41 2020	

VA200501G.M Sat May 02 09:57:19 2020

Response Factor Report VOA-GCMS1

Method Path : C:\msdchem\1\METHODS\
Method File : VA200501G.M
Title : NWTPH-Gx by GC/MS
Last Update : Sat May 02 09:48:06 2020
Response Via : Initial Calibration

Calibration Files
1 =VA20050126.D 2 =VA20050127.D 3 =VA20050128.D 4 =VA20050129.D 5 =VA20050130.D 6 =VA20050131.D
7 =VA20050132.D 8 =VA20050133.D

		Compound	1	2	3	4	5	6	7	8	Avg	%RSD
1	I	Pentafluorobenzene...	ISTD									
2	S	1,4-Difluorobe...	3.987	4.011	4.097	4.141	4.215	4.329	4.703	5.747	4.404	13.37
3	S	4-Bromofluorob...	3.431	3.229	3.393	3.574	3.514	3.520	3.796	3.837	3.537	5.71
4	S	Chlorobenzene-...									0.000	-1.00
5	H	CA-LUFT (C5-C12)	4.151	3.359	3.045	2.953	3.011	3.126	3.303	3.396	3.293	11.69
6	H	TPHg (C5-C9)	3.663	2.924	2.602	2.428	2.465	2.521	2.645	2.746	2.749	14.65
7	H	TPHg (C6-C10)	3.166	2.500	2.219	2.087	2.112	2.168	2.277	2.371	2.362	14.91
8	H	NWTPH-Gx	1.792	1.788	1.846	1.980	2.043	2.195	2.374	2.428	2.056	12.34
9		Benzene (NR)									0.000	-1.00
10	S	Toluene-d8 (NR)									0.000	-1.00
11	C	Toluene (NR)									0.000	-1.00
12	S	1,4-Dichlorobe...									0.000	-1.00
13		Naphthalene (NR)									0.000	-1.00

(#) = Out of Range

06/25/20 Anchor QEA - LC - Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores Page 121 of 261

Compound List Report VOA-GCMS1

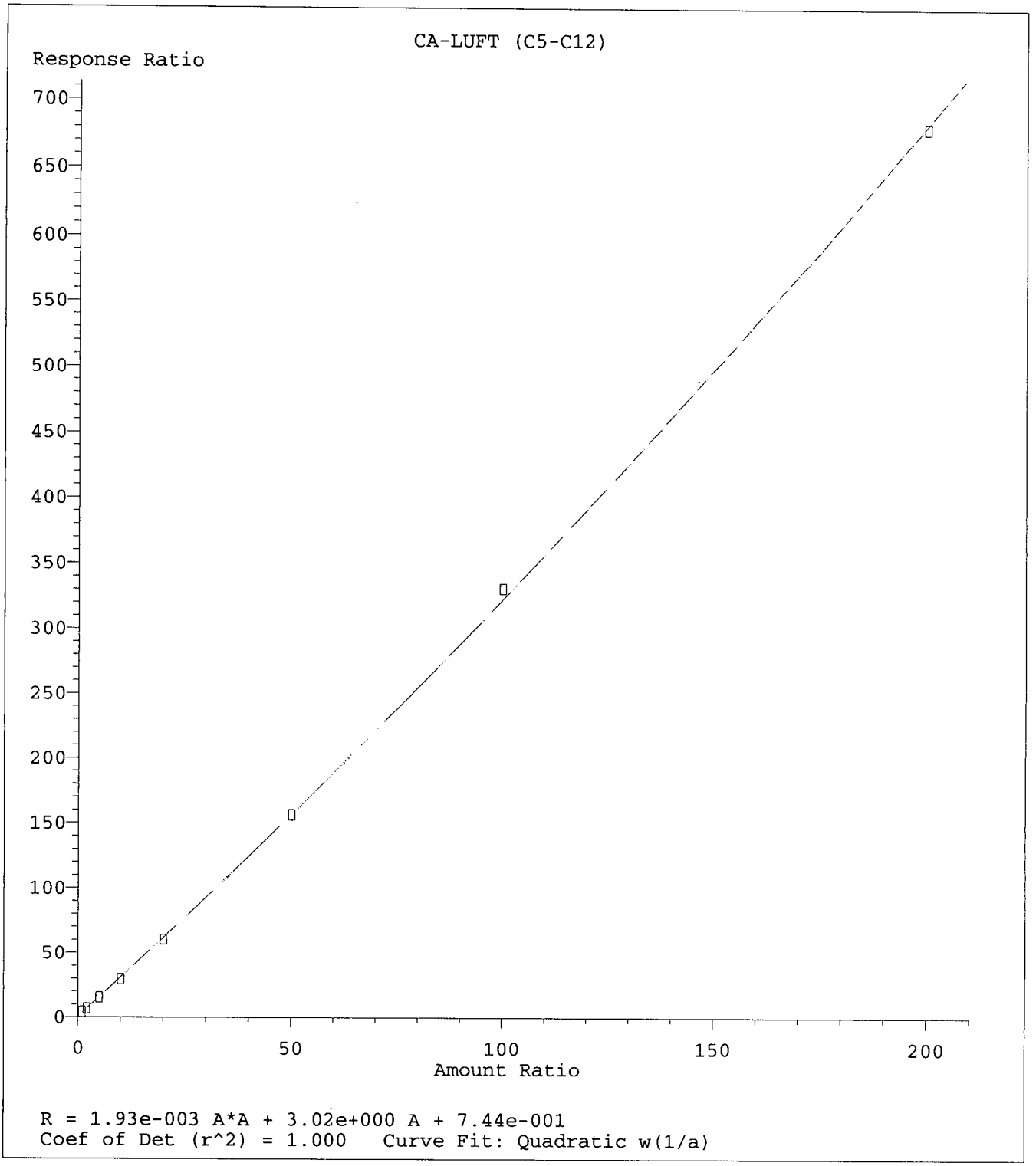
Method Path : C:\msdchem\1\METHODS\
Method File : VA200501G.M
Title : NWTPH-Gx by GC/MS
Last Update : Sat May 02 09:48:06 2020
Response Via : Initial Calibration

Total Cpnds : 13

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	Pentafluorobenzene (IS)	168	5.530	1.000	A	2	A	A
2	S	1,4-Difluorobenzene (Sur)	TIC	6.072	1.098	A	2	A	A
3	S	4-Bromofluorobenzene (Sur)	TIC	10.440	1.888	A	2	A	A
4	S	Chlorobenzene-d5 (NR)	TIC	9.296	1.681	A	2	A	A
5	H	CA-LUFT (C5-C12)	TIC	7.253	1.311	Q	0	A	A
6	H	TPHg (C5-C9)	TIC	6.247	1.130	Q	0	A	A
7	H	TPHg (C6-C10)	TIC	6.928	1.253	Q	0	A	A
8	H	NWTPH-Gx	TIC	9.261	1.675	Q	0	A	A
9		Benzene (NR)	78	5.421	0.980	A	2	A	A
10	S	Toluene-d8 (NR)	TIC	7.556	1.366	A	2	A	A
11	C	Toluene (NR)	91	7.617	1.377	A	2	A	A
12	S	1,4-Dichlorobenzene-d4 (NR)	TIC	11.358	2.054	A	2	A	A
13		Naphthalene (NR)	128	13.074	2.364	A	2	A	A

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

VA200501G.M Sat May 02 09:57:10 2020



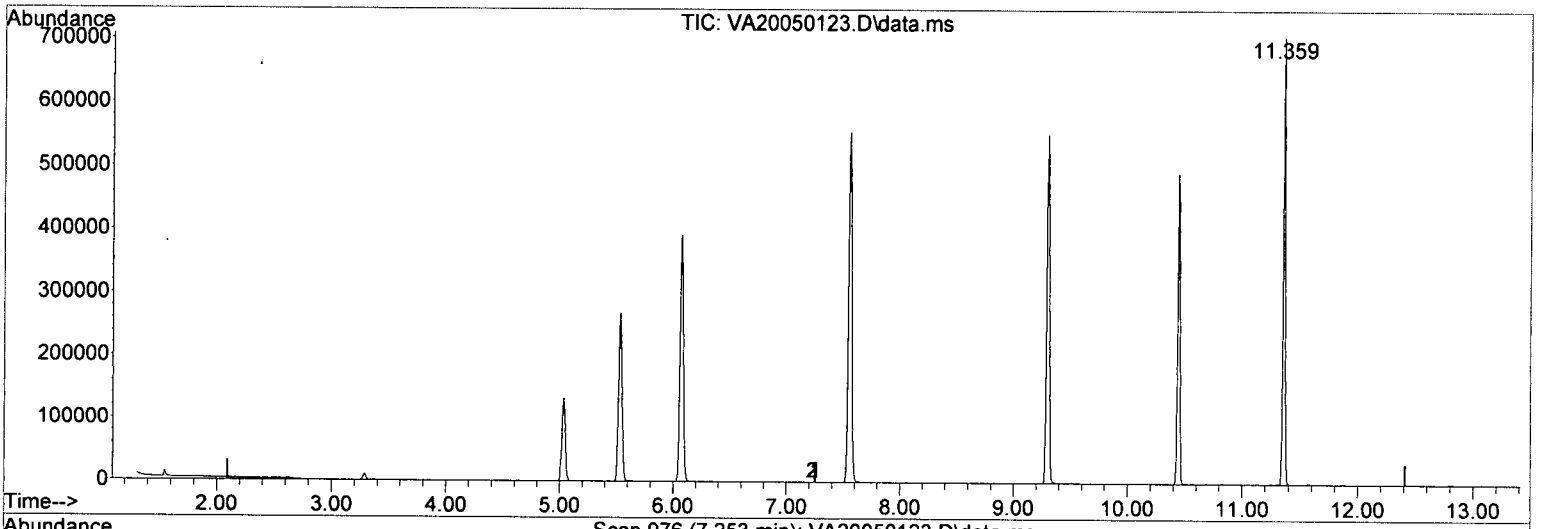
Method Name: C:\msdchem\1\METHODS\VA200501G.M
Calibration Table Last Updated: Sat May 02 09:48:06 2020

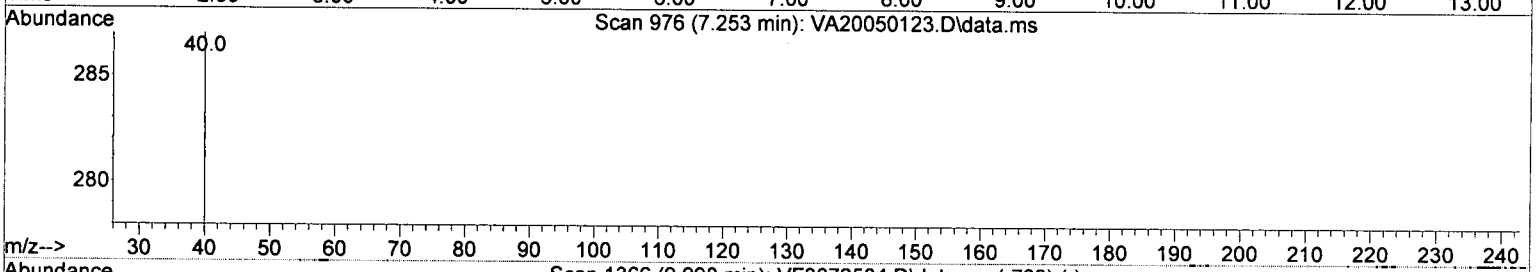
Intercept MB & MDL
5/2/20 hd

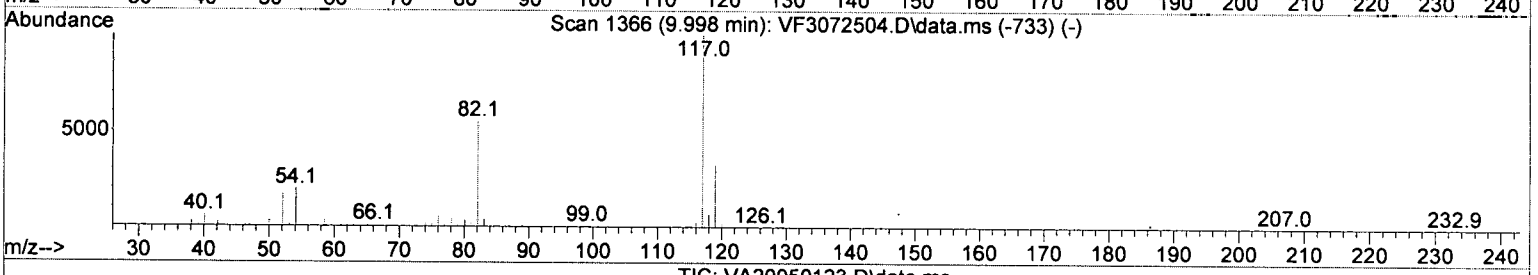
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050123.D
Acq On : 2 May 2020 12:32 am
Operator : PS/TNL
Sample : 0E01047-ICB2
Misc : 1X 5mL DI
ALS Vial : 23 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:57:48 2020
Quant Method : C:\msdchem\1\METHODS\VA200501G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Sat May 02 09:48:06 2020
Response via : Initial Calibration







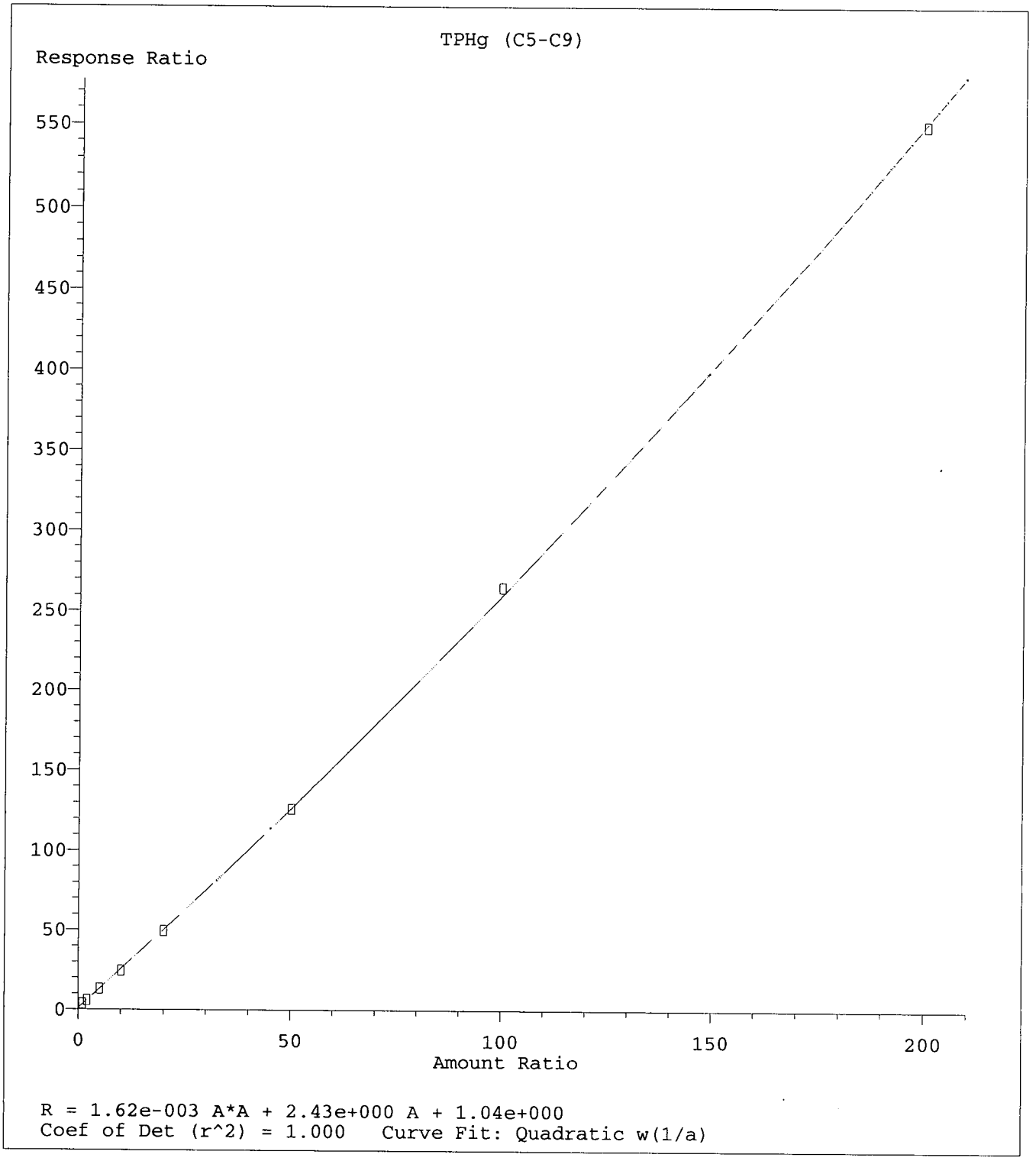
TIC: VA20050123.D\data.ms

(5) CA-LUFT (C5-C12) (H)

7.253min (0.000) 16.07 ug/L m

response 344704

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00



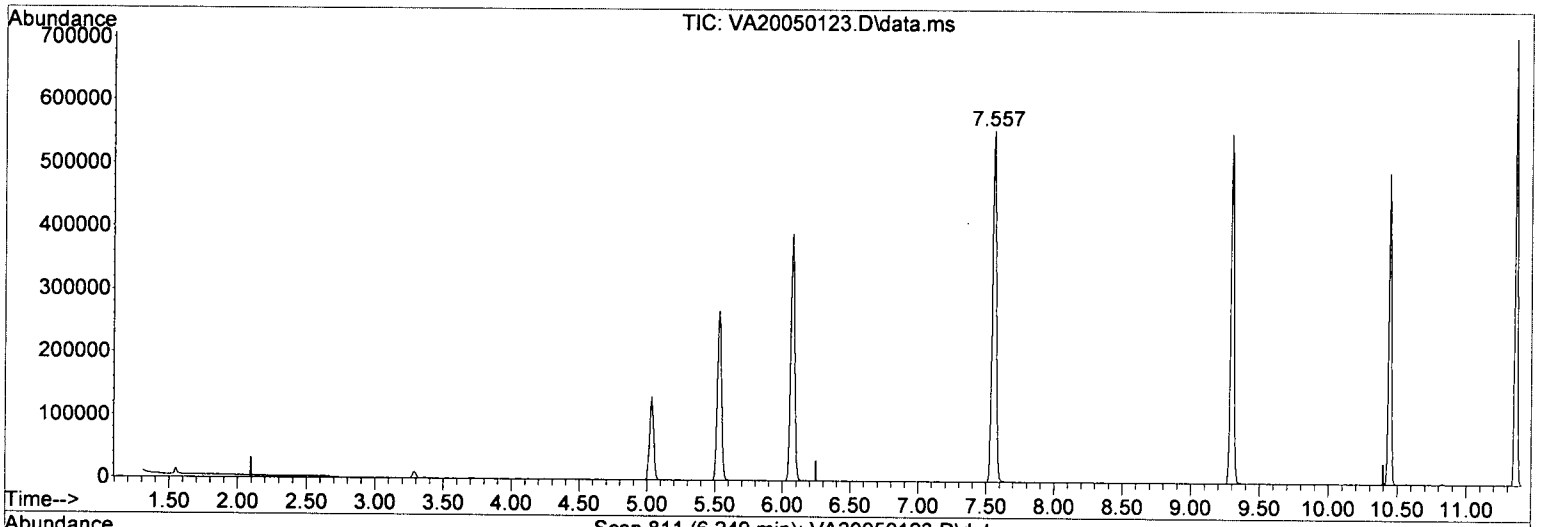
Method Name: C:\msdchem\1\METHODS\VA200501G.M
Calibration Table Last Updated: Sat May 02 09:48:06 2020

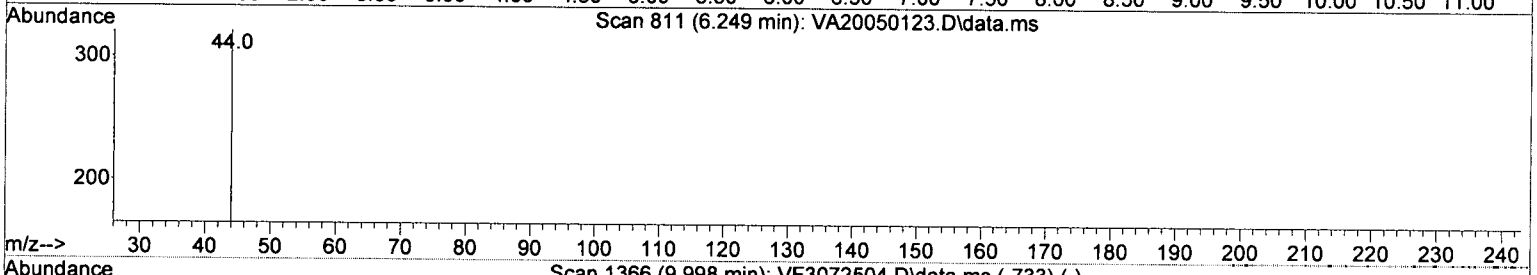
Intercept < MDL
5/2/2020

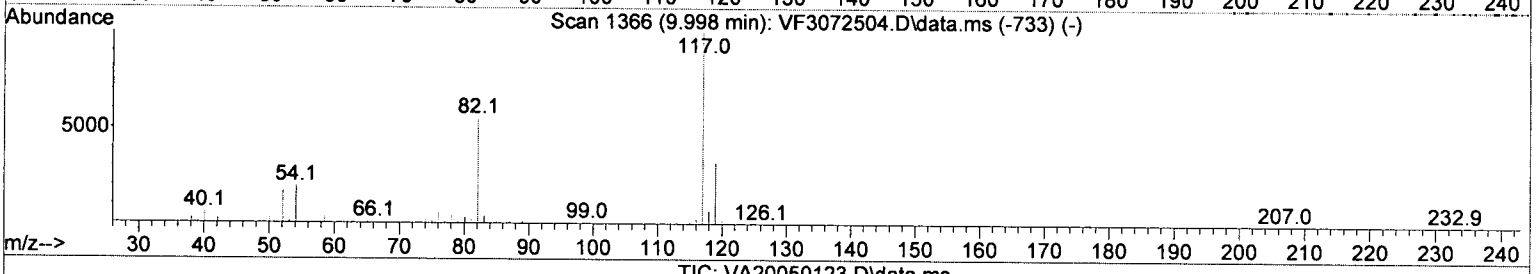
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050123.D
Acq On : 2 May 2020 12:32 am
Operator : PS/TNL
Sample : 0E01047-ICB2
Misc : 1X 5mL DI
ALS Vial : 23 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:57:48 2020
Quant Method : C:\msdchem\1\METHODS\VA200501G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Sat May 02 09:48:06 2020
Response via : Initial Calibration







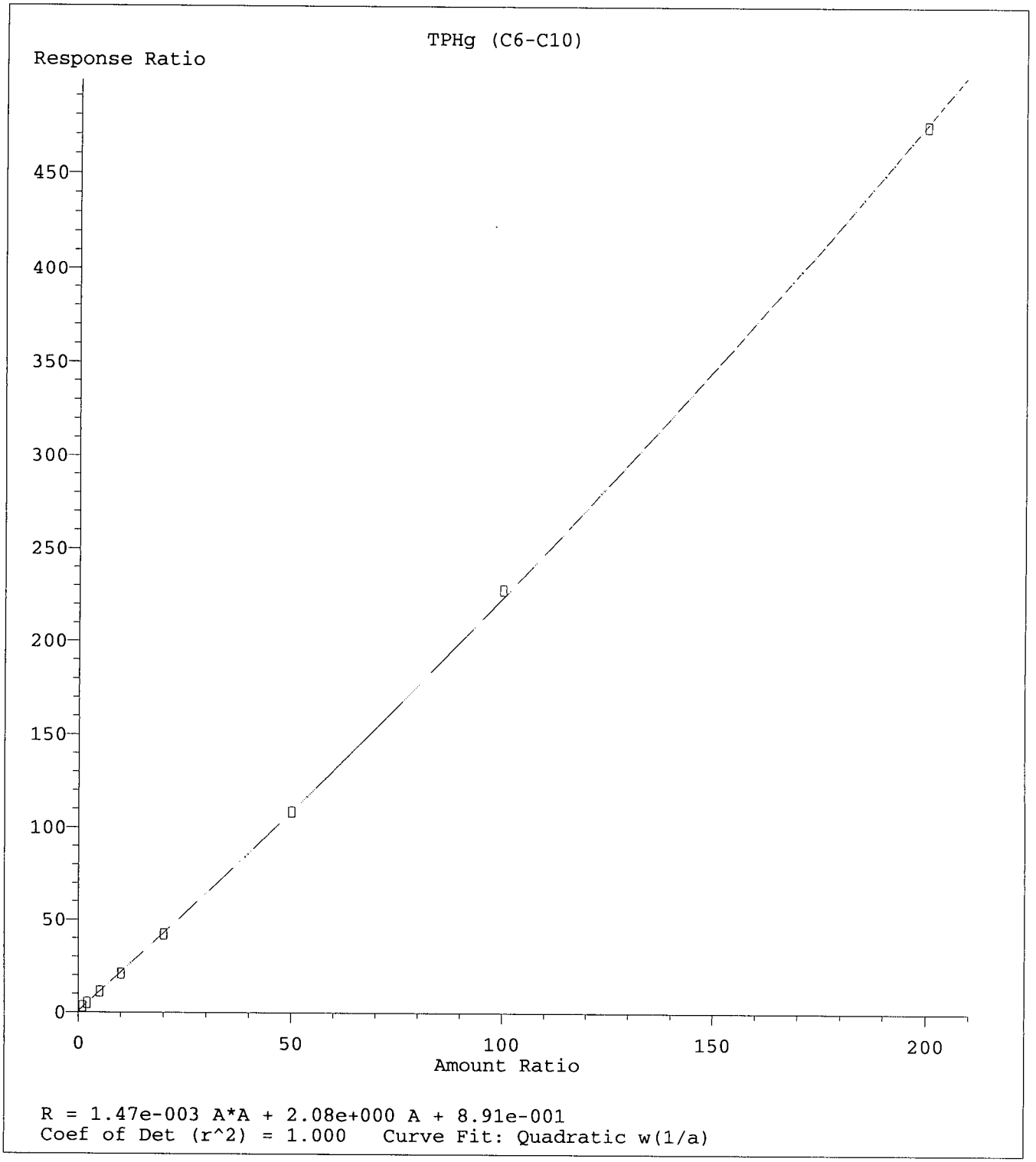
TIC: VA20050123.D\data.ms

(6) TPHg (C5-C9) (H)

6.247min (0.000) 12.35 ug/L m

response 328565

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00



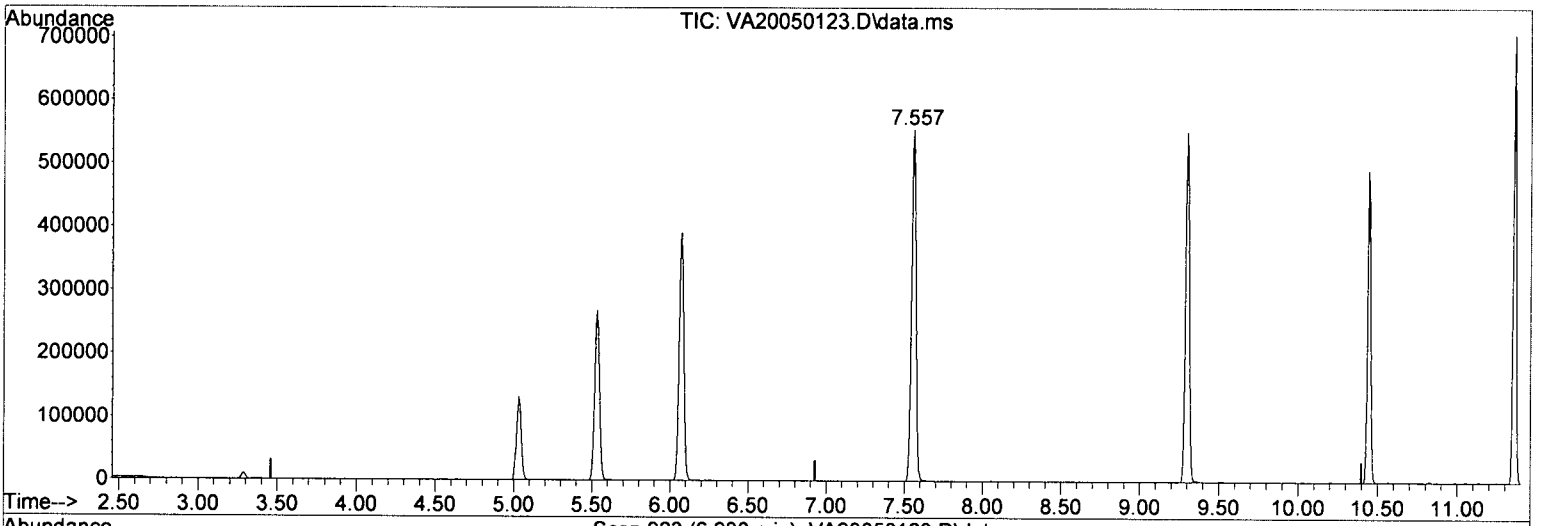
Method Name: C:\msdchem\1\METHODS\VA200501G.M
Calibration Table Last Updated: Sat May 02 09:48:06 2020

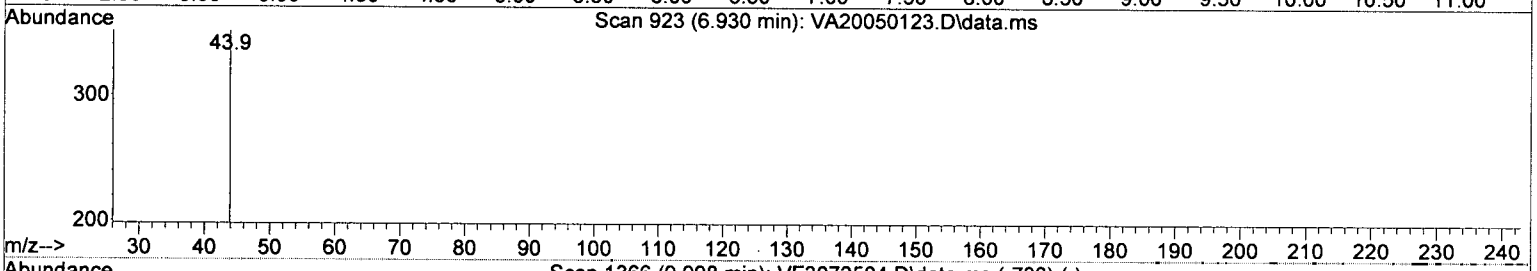
Intercept < MDL
5/2/20 hd

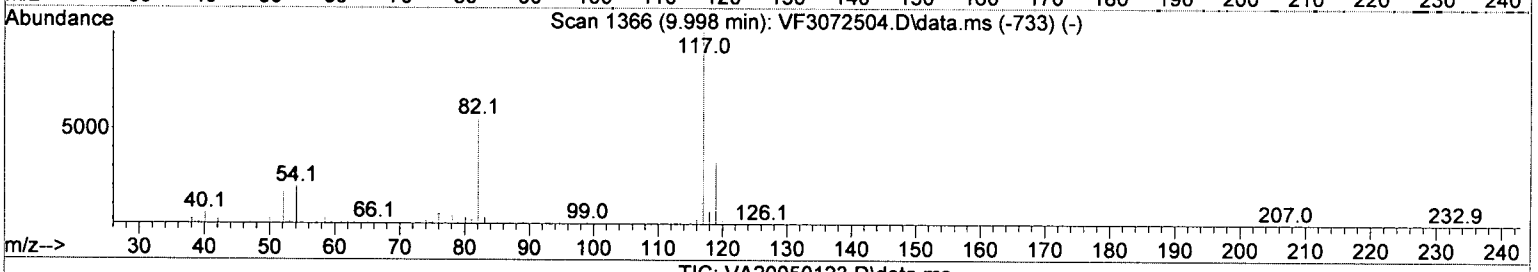
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050123.D
Acq On : 2 May 2020 12:32 am
Operator : PS/TNL
Sample : 0E01047-ICB2
Misc : 1X 5mL DI
ALS Vial : 23 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:57:48 2020
Quant Method : C:\msdchem\1\METHODS\VA200501G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Sat May 02 09:48:06 2020
Response via : Initial Calibration







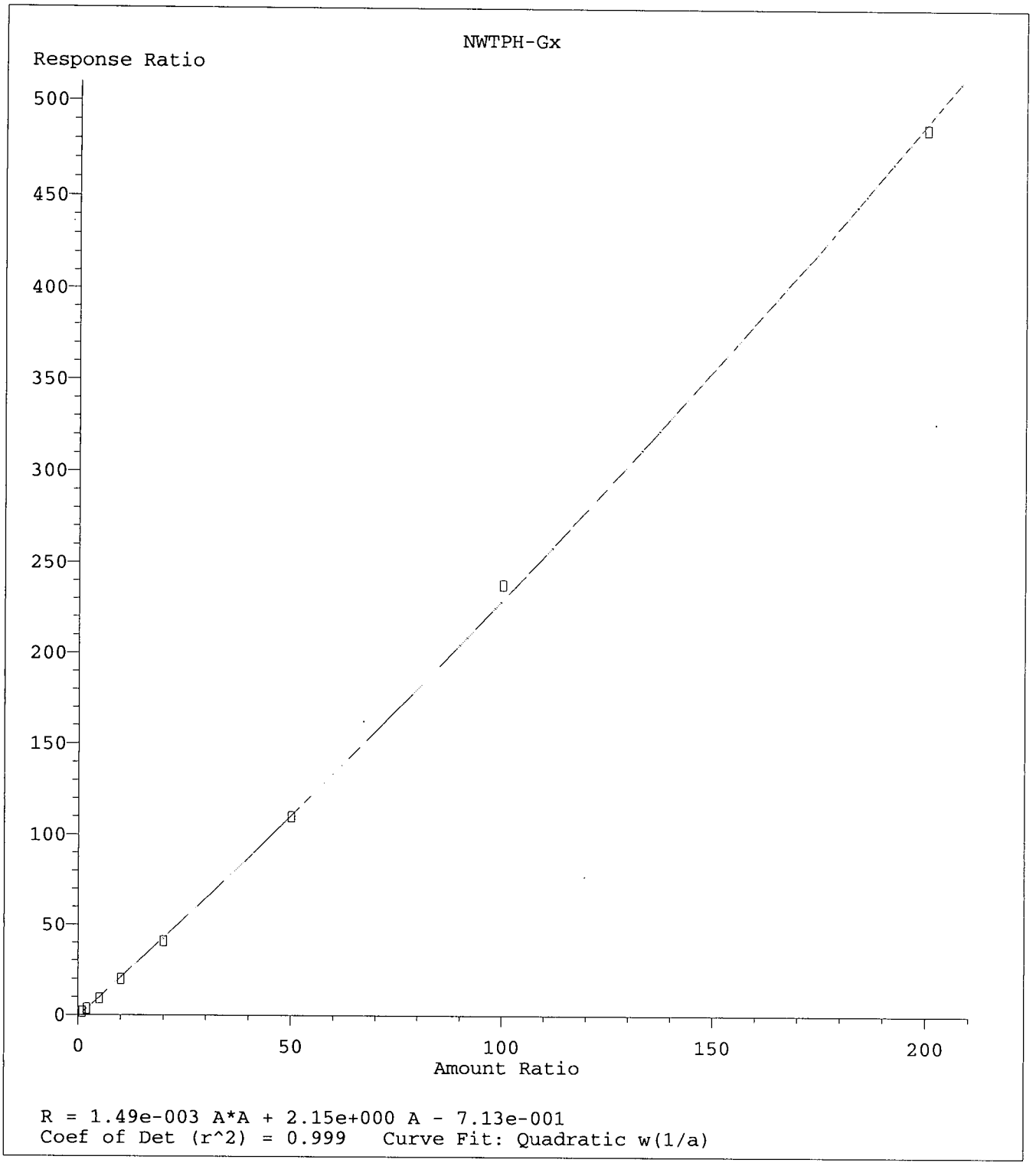
TIC: VA20050123.D\data.ms

(7) TPHg (C6-C10) (H)

6.928min (0.000) 14.48 ug/L m

response 300130

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00



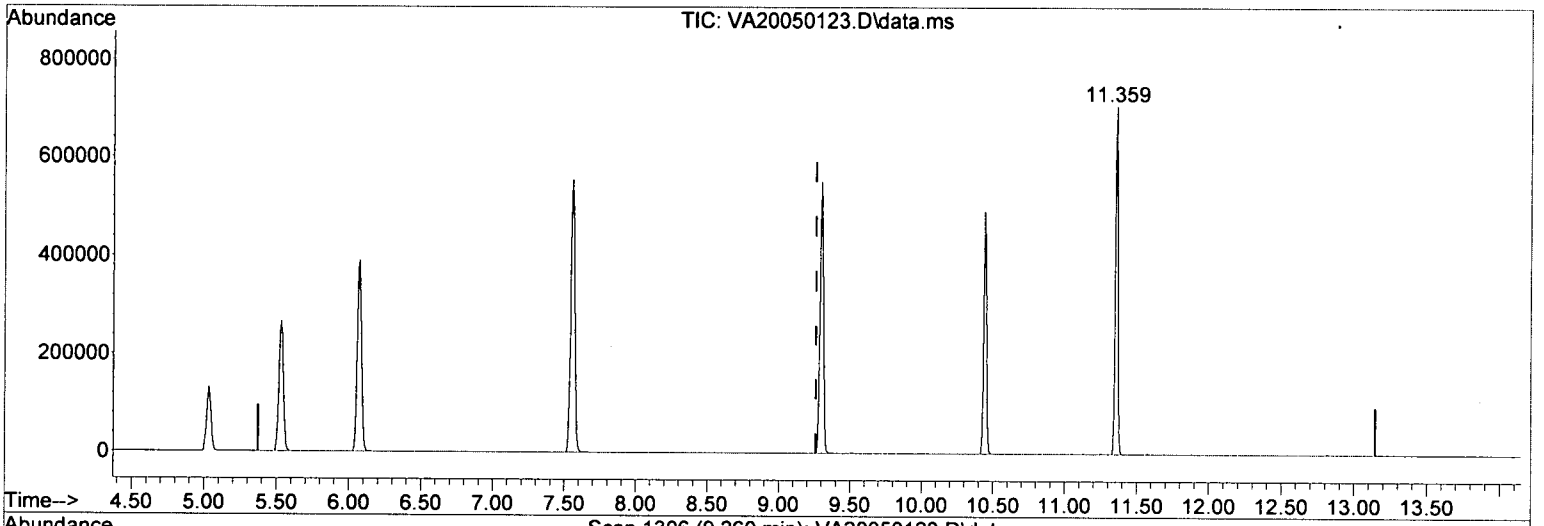
Method Name: C:\msdchem\1\METHODS\VA200501G.M
Calibration Table Last Updated: Sat May 02 09:48:06 2020

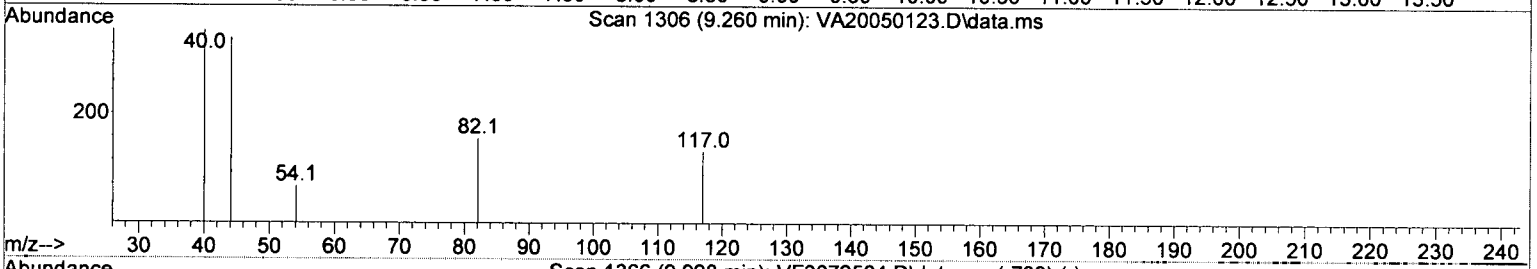
Intercept cmtn
5/2/20

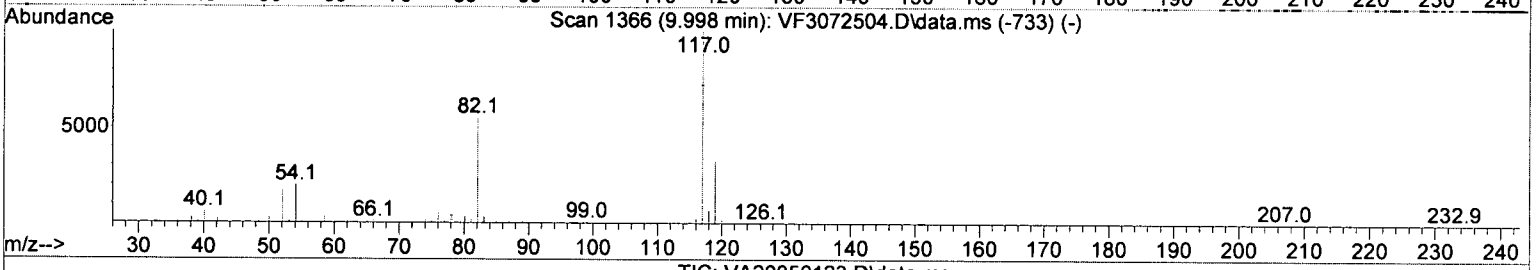
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050123.D
Acq On : 2 May 2020 12:32 am
Operator : PS/TNL
Sample : 0E01047-ICB2
Misc : 1X 5mL DI
ALS Vial : 23 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:57:48 2020
Quant Method : C:\msdchem\1\METHODS\VA200501G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Sat May 02 09:48:06 2020
Response via : Initial Calibration







TIC: VA20050123.D\data.ms

(8) NWTPH-Gx (H)

9.261min (0.000) 20.53 ug/L m

response 34382

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0E01047 **Seq. Date: 5/2/2020**

SEQUENCE LOG

SampleID	Analysis	Matrix	STDID	Analyzed
0E01047-TUN2	8015D-Mod Gasoline (C6-C10) by	Water		5/2/2020 12:05:00AM
"	+CA LUFT GRO	"		"
"	+Forensics 8015D-M Gas (C6-C	"		"
"	+NWTPH-Gx	"		"
"	+NWTPH-Gx (Water Soluble Fra	"		"
0E01047-ICB2	8015D-Mod Gasoline (C6-C10) by	Water		5/2/2020 12:32:00AM
"	+CA LUFT GRO	"		"
"	+Forensics 8015D-M Gas (C6-C	"		"
"	+NWTPH-Gx	"		"
"	+NWTPH-Gx (Water Soluble Fra	"		"
0E01047-CALC	8015D-Mod Gasoline (C6-C10) by	Water	A20D440	5/2/2020 1:54:00AM
"	+CA LUFT GRO	"	A20D440	"
"	+Forensics 8015D-M Gas (C6-C	"	A20D440	"
"	+NWTPH-Gx	"	A20D440	"
"	+NWTPH-Gx (Water Soluble Fra	"	A20D440	"
0E01047-CALD	8015D-Mod Gasoline (C6-C10) by	Water	A20D441	5/2/2020 2:22:00AM
"	+CA LUFT GRO	"	A20D441	"
"	+Forensics 8015D-M Gas (C6-C	"	A20D441	"
"	+NWTPH-Gx	"	A20D441	"
"	+NWTPH-Gx (Water Soluble Fra	"	A20D441	"
0E01047-CALE	8015D-Mod Gasoline (C6-C10) by	Water	A20D442	5/2/2020 2:49:00AM
"	+CA LUFT GRO	"	A20D442	"
"	+Forensics 8015D-M Gas (C6-C	"	A20D442	"
"	+NWTPH-Gx	"	A20D442	"
"	+NWTPH-Gx (Water Soluble Fra	"	A20D442	"
0E01047-CALF	8015D-Mod Gasoline (C6-C10) by	Water	A20D443	5/2/2020 3:16:00AM
"	+CA LUFT GRO	"	A20D443	"
"	+Forensics 8015D-M Gas (C6-C	"	A20D443	"
"	+NWTPH-Gx	"	A20D443	"
"	+NWTPH-Gx (Water Soluble Fra	"	A20D443	"
0E01047-CALG	8015D-Mod Gasoline (C6-C10) by	Water	A20D444	5/2/2020 3:43:00AM
"	+CA LUFT GRO	"	A20D444	"
"	+Forensics 8015D-M Gas (C6-C	"	A20D444	"
"	+NWTPH-Gx	"	A20D444	"
"	+NWTPH-Gx (Water Soluble Fra	"	A20D444	"
0E01047-CALH	8015D-Mod Gasoline (C6-C10) by	Water	A20D445	5/2/2020 4:11:00AM
"	+CA LUFT GRO	"	A20D445	"
"	+Forensics 8015D-M Gas (C6-C	"	A20D445	"
"	+NWTPH-Gx	"	A20D445	"
"	+NWTPH-Gx (Water Soluble Fra	"	A20D445	"
0E01047-CALI	8015D-Mod Gasoline (C6-C10) by	Water	A20D446	5/2/2020 4:38:00AM
"	+CA LUFT GRO	"	A20D446	"
"	+Forensics 8015D-M Gas (C6-C	"	A20D446	"
"	+NWTPH-Gx	"	A20D446	"
"	+NWTPH-Gx (Water Soluble Fra	"	A20D446	"

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0E01047 **Seq. Date: 5/2/2020**

0E01047-CALJ	8015D-Mod Gasoline (C6-C10) by	Water	A20D447	5/2/2020	5:06:00AM
"	+CA LUFT GRO	"	A20D447		"
"	+Forensics 8015D-M Gas (C6-C	"	A20D447		"
"	+NWTPH-Gx	"	A20D447		"
"	+NWTPH-Gx (Water Soluble Fra	"	A20D447		"
0E01047-ICV2	8015D-Mod Gasoline (C6-C10) by	Water	A20A357	5/2/2020	6:28:00AM
"	+CA LUFT GRO	"	A20A357		"
"	+Forensics 8015D-M Gas (C6-C	"	A20A357		"
"	+NWTPH-Gx	"	A20A357		"
"	+NWTPH-Gx (Water Soluble Fra	"	A20A357		"

CALIBRATION STANDARD RECOVERIES

Calibration: **A0E0201** Instrument: **VOA-GCMS1**

8015D-Mod Gasoline (C6-C10 Sequence: **0E01047** Matrix: **Water**

0E01047-CALC	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01047-CALD	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01047-CALE	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01047-CALF	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01047-CALG	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01047-CALH	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01047-CALI	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0E01047-CALJ	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**

Compounds listed above have recalculated recoveries outside 85-115% of the true values, and the calibration levels are above the reporting level. If no compounds are listed, all are OK. Please see the next section for quadatic fit compounds.

Analytes With Quadratic Curve Fits

Qualifier	MRL	Recalc Value	OK?	Raise MRL to ?
		_____	☐	☐ _____

Analytes listed above have quadratic curve fits. If they are using a weighting otpion, they must be checked against the requanted curve points to determine if the recalculated results are within limits (85-115 or as specified).

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0E01047 **Seq. Date: 5/2/2020**

ICV RECOVERIES

Calibration: **A0E0201** Instrument: **VOA-GCMS1**

8015D-Mod Gasoline (C6-C10 Sequence: **0E01047** Matrix: **Water**

0E01047-ICV2	Inst. MRL	ICV Level	Result	%Rec.	Qual

Compounds listed above have Initial Calibration Verification standard recoveries outside 70-130% of the true values. If no compounds are listed, all have passing recoveries.

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050136.D
Acq On : 2 May 2020 6:28 am
Operator : PS/TNL
Sample : 0E01047-ICV2
Misc : 1X 5mL 500 PPB GX
ALS Vial : 36 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:57:58 2020
Quant Method : C:\msdchem\1\METHODS\VA200501G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Sat May 02 09:48:06 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene (IS)	50.000	50.000	0.0	112	0.00
2	S	1,4-Difluorobenzene (Sur)	50.000	44.929	10.1	107	0.00
3	S	4-Bromofluorobenzene (Sur)	50.000	48.343	3.3	108	0.00
4	S	Chlorobenzene-d5 (NR)	-1.000	0.000	0.0	105	0.00
5	H	CA-LUFT (C5-C12)	500.000	447.716	10.5	107	0.00
6	H	TPHg (C5-C9)	500.000	437.241	12.6	104	0.00
7	H	TPHg (C6-C10)	500.000	443.652	11.3	105	0.00
8	H	NWTPH-Gx	500.000	463.167	7.4	110	0.00
9		Benzene (NR)	-1.000	0.000	0.0	102	0.00
10	S	Toluene-d8 (NR)	-1.000	0.000	0.0	107	0.00
11	C	Toluene (NR)	-1.000	0.000	0.0	102	0.00
12	S	1,4-Dichlorobenzene-d4 (NR)	-1.000	0.000	0.0	107	0.00
13		Naphthalene (NR)	-1.000	0.000	0.0	133	0.00

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

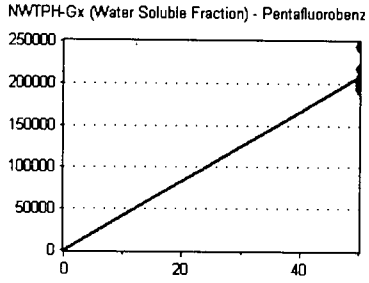
Element Calibration Review Sheet

Calibration ID: **A0E0201** Instrument: **VOA-GCMS1** Calibration Date: **05/02/2020**

Analysis: **NWTPH-Gx (Water Soluble F** Instrument Cal ID: **A0E0201**

Pentafluorobenzene (IS)

Curve Fit: **AVERAGE RF**

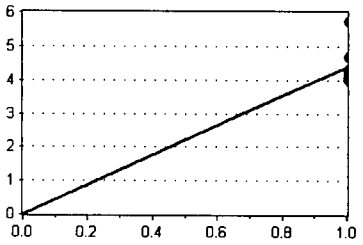


Standard	Concentration	Response	Response Factor	RT
0E01047-CALC	50	207110	4142.200	5.53
0E01047-CALD	50	192201	3844.020	5.53
0E01047-CALE	50	200983	4019.660	5.53
0E01047-CALF	50	198598	3971.960	5.53
0E01047-CALG	50	196067	3921.340	5.53
0E01047-CALH	50	205503	4110.060	5.53
0E01047-CALI	50	217888	4357.760	5.53
0E01047-CALJ	50	244076	4881.520	5.53

AVE RF **4156.065** RF RSD **8.00** AVE RT **5.53**

1,4-Difluorobenzene (Sur)

Curve Fit: **AVERAGE RF**

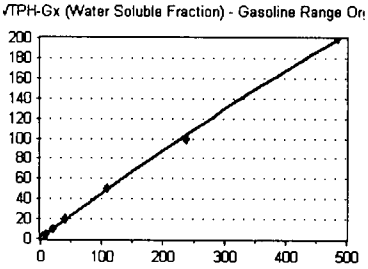


Standard	Concentration	Response	Response Factor	RT
0E01047-CALC	50	825832	3.987	6.07
0E01047-CALD	50	770905	4.011	6.07
0E01047-CALE	50	823341	4.097	6.07
0E01047-CALF	50	822445	4.141	6.07
0E01047-CALG	50	826451	4.215	6.07
0E01047-CALH	50	889538	4.329	6.07
0E01047-CALI	50	1024620	4.703	6.07
0E01047-CALJ	50	1402684	5.747	6.07

AVE RF **4.404** RF RSD **13.37** AVE RT **6.07**

Gasoline Range Organics

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**

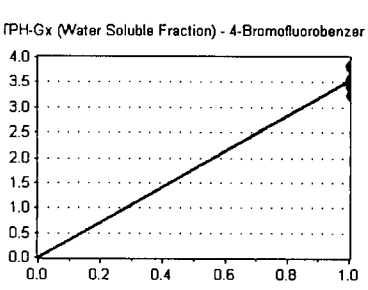


Standard	Concentration	Response	Response Factor	RT
0E01047-CALC	50	371117	1.792	9.26
0E01047-CALD	100	687201	1.788	9.26
0E01047-CALE	250	1855547	1.846	9.26
0E01047-CALF	500	3932879	1.980	9.26
0E01047-CALG	1000	8009819	2.043	9.26
0E01047-CALH	2500	2.255706E+07	2.195	9.26
0E01047-CALI	5000	5.17368E+07	2.374	9.26
0E01047-CALJ	10000	1.185108E+08	2.428	9.26

AVE RF **2.056** RF RSD **12.34** AVE RT **9.26**

4-Bromofluorobenzene (Sur)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0E01047-CALC	50	710648	3.431	10.44
0E01047-CALD	50	620653	3.229	10.44
0E01047-CALE	50	681967	3.393	10.44
0E01047-CALF	50	709849	3.574	10.44
0E01047-CALG	50	689061	3.514	10.44
0E01047-CALH	50	723445	3.520	10.44
0E01047-CALI	50	827119	3.796	10.44
0E01047-CALJ	50	936489	3.837	10.44

AVE RF **3.537** RF RSD **5.71** AVE RT **10.44**

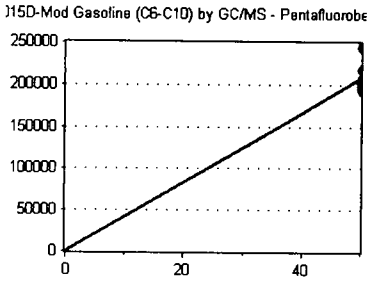
Element Calibration Review Sheet

Calibration ID: **A0E0201** Instrument: **VOA-GCMS1** Calibration Date: **05/02/2020**

Analysis: **8015D-Mod Gasoline (C6-C1** Instrument Cal ID: **A0E0201**

Pentafluorobenzene (IS)

Curve Fit: **AVERAGE RF**

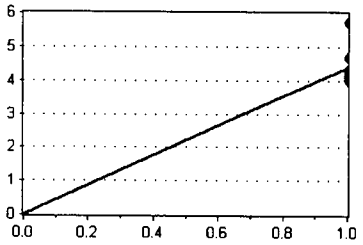


Standard	Concentration	Response	Response Factor	RT
0E01047-CALC	50	207110	4142.200	5.53
0E01047-CALD	50	192201	3844.020	5.53
0E01047-CALE	50	200983	4019.660	5.53
0E01047-CALF	50	198598	3971.960	5.53
0E01047-CALG	50	196067	3921.340	5.53
0E01047-CALH	50	205503	4110.060	5.53
0E01047-CALI	50	217888	4357.760	5.53
0E01047-CALJ	50	244076	4881.520	5.53

AVE RF **4156.065** RF RSD **8.00** AVE RT **5.53**

1,4-Difluorobenzene (Sur)

Curve Fit: **AVERAGE RF**

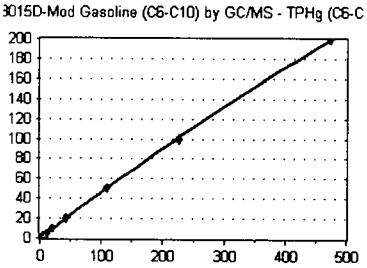


Standard	Concentration	Response	Response Factor	RT
0E01047-CALC	50	825832	3.987	6.07
0E01047-CALD	50	770905	4.011	6.07
0E01047-CALE	50	823341	4.097	6.07
0E01047-CALF	50	822445	4.141	6.07
0E01047-CALG	50	826451	4.215	6.07
0E01047-CALH	50	889538	4.329	6.07
0E01047-CALI	50	1024620	4.703	6.07
0E01047-CALJ	50	1402684	5.747	6.07

AVE RF **4.404** RF RSD **13.37** AVE RT **6.07**

TPHg (C6-C10)

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**

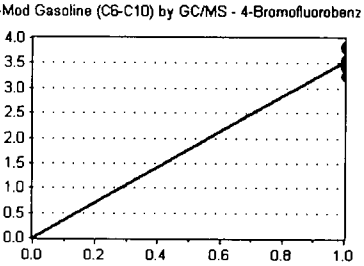


Standard	Concentration	Response	Response Factor	RT
0E01047-CALC	50	655685	3.166	6.93
0E01047-CALD	100	961147	2.500	6.93
0E01047-CALE	250	2229891	2.219	6.93
0E01047-CALF	500	4144058	2.087	6.93
0E01047-CALG	1000	8283488	2.112	6.93
0E01047-CALH	2500	2.22724E+07	2.168	6.93
0E01047-CALI	5000	4.961133E+07	2.277	6.93
0E01047-CALJ	10000	1.157328E+08	2.371	6.93

AVE RF **2.362** RF RSD **14.91** AVE RT **6.93**

4-Bromofluorobenzene (Sur)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0E01047-CALC	50	710648	3.431	10.44
0E01047-CALD	50	620653	3.229	10.44
0E01047-CALE	50	681967	3.393	10.44
0E01047-CALF	50	709849	3.574	10.44
0E01047-CALG	50	689061	3.514	10.44
0E01047-CALH	50	723445	3.520	10.44
0E01047-CALI	50	827119	3.796	10.44
0E01047-CALJ	50	936489	3.837	10.44

AVE RF **3.537** RF RSD **5.71** AVE RT **10.44**

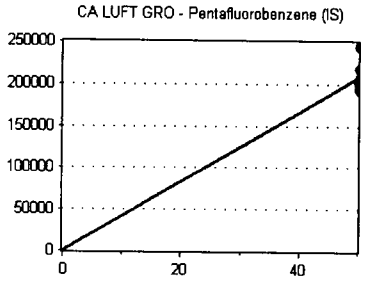
Element Calibration Review Sheet

Calibration ID: **A0E0201** Instrument: **VOA-GCMS1** Calibration Date: **05/02/2020**

Analysis: **CA LUFT GRO** Instrument Cal ID: **A0E0201**

Pentafluorobenzene (IS)

Curve Fit: **AVERAGE RF**

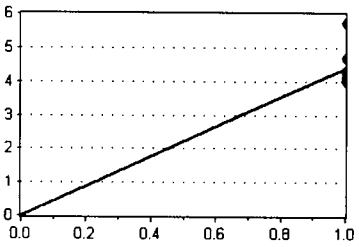


Standard	Concentration	Response	Response Factor	RT
0E01047-CALC	50	207110	4142.200	5.53
0E01047-CALD	50	192201	3844.020	5.53
0E01047-CALE	50	200983	4019.660	5.53
0E01047-CALF	50	198598	3971.960	5.53
0E01047-CALG	50	196067	3921.340	5.53
0E01047-CALH	50	205503	4110.060	5.53
0E01047-CALI	50	217888	4357.760	5.53
0E01047-CALJ	50	244076	4881.520	5.53

AVE RF **4156.065** RF RSD **8.00** AVE RT **5.53**

1,4-Difluorobenzene (Sur)

Curve Fit: **AVERAGE RF**

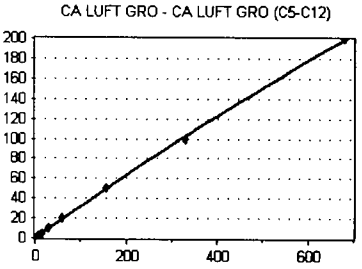


Standard	Concentration	Response	Response Factor	RT
0E01047-CALC	50	825832	3.987	6.07
0E01047-CALD	50	770905	4.011	6.07
0E01047-CALE	50	823341	4.097	6.07
0E01047-CALF	50	822445	4.141	6.07
0E01047-CALG	50	826451	4.215	6.07
0E01047-CALH	50	889538	4.329	6.07
0E01047-CALI	50	1024620	4.703	6.07
0E01047-CALJ	50	1402684	5.747	6.07

AVE RF **4.404** RF RSD **13.37** AVE RT **6.07**

CA LUFT GRO (C5-C12)

Curve Fit: **QUADRATIC: Weighting: (1/a), Origin: Ignore**

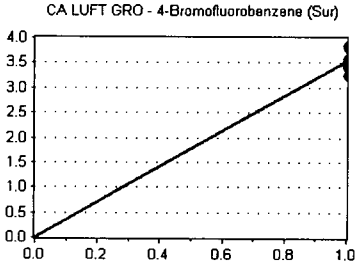


Standard	Concentration	Response	Response Factor	RT
0E01047-CALC	50	859794	4.151	7.25
0E01047-CALD	100	1291131	3.359	7.25
0E01047-CALE	250	3060058	3.045	7.25
0E01047-CALF	500	5864425	2.953	7.25
0E01047-CALG	1000	1.180727E+07	3.011	7.25
0E01047-CALH	2500	3.211695E+07	3.126	7.25
0E01047-CALI	5000	7.196709E+07	3.303	7.25
0E01047-CALJ	10000	1.657992E+08	3.396	7.25

AVE RF **3.293** RF RSD **11.69** AVE RT **7.25**

4-Bromofluorobenzene (Sur)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0E01047-CALC	50	710648	3.431	10.44
0E01047-CALD	50	620653	3.229	10.44
0E01047-CALE	50	681967	3.393	10.44
0E01047-CALF	50	709849	3.574	10.44
0E01047-CALG	50	689061	3.514	10.44
0E01047-CALH	50	723445	3.520	10.44
0E01047-CALI	50	827119	3.796	10.44
0E01047-CALJ	50	936489	3.837	10.44

AVE RF **3.537** RF RSD **5.71** AVE RT **10.44**

Injection Log

Directory: i:\DATA\2020-05\0E01047

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	Va20050101.d	1.	0E01047-IBLK1	1X 5mL DI 0....	1 May 2020 14:31
2	2	Va20050102.d	1.	0E01047-IBLK2	1X 5mL DI 0....	1 May 2020 14:58
3	3	Va20050103.d	1.	0E01047-TUN1	A20C446 5mL BFB...	1 May 2020 15:26
4	4	Va20050104.d	1.	0E01047-ICB1	1X 5mL DI	1 May 2020 15:53
5	5	Va20050105.d	1.	0E01047-CAL1	1X 5mL 0.1 PPB ...	1 May 2020 16:20
6	6	Va20050106.d	1.	0E01047-CAL2	1X 5mL 0.2 PPB ...	1 May 2020 16:48
7	7	Va20050107.d	1.	0E01047-CAL3	1X 5mL 0.4 PPB ...	1 May 2020 17:15
8	8	Va20050108.d	1.	0E01047-CAL4	1X 5mL 1 PPB VOCRO	1 May 2020 17:43
9	9	Va20050109.d	1.	0E01047-CAL5	1X 5mL 2 PPB VOCRO	1 May 2020 18:10
10	10	Va20050110.d	1.	0E01047-CAL6	1X 5mL 5 PPB VOCRO	1 May 2020 18:37
11	11	Va20050111.d	1.	0E01047-CAL7	1X 5mL 10 PPB V...	1 May 2020 19:05
12	12	Va20050112.d	1.	0E01047-CAL8	1X 5mL 20 PPB V...	1 May 2020 19:32
13	13	Va20050113.d	1.	0E01047-CAL9	1X 5mL 50 PPB V...	1 May 2020 19:59
14	14	Va20050114.d	1.	0E01047-IBLK3	1X 5mL DI	1 May 2020 20:27
15	15	Va20050115.d	1.	0E01047-CALA	1X 5mL 100 PPB ...	1 May 2020 20:54
16	16	Va20050116.d	1.	0E01047-IBLK4	1X 5mL DI	1 May 2020 21:21
17	17	Va20050117.d	1.	0E01047-CALB	1X 5mL 200 PPB...	1 May 2020 21:48
18	18	Va20050118.d	1.	0E01047-IBLK5	1X 5mL DI	1 May 2020 22:16
19	19	Va20050119.d	1.	0E01047-IBLK6	1X 5mL DI	1 May 2020 22:43
20	20	Va20050120.d	1.	0E01047-ICV1	1X 5mL 20-40 PP...	1 May 2020 23:10
21	21	Va20050121.d	1.	0E01047-IBLK7	1X 5mL DI	1 May 2020 23:38
22	22	Va20050122.d	1.	0E01047-TUN2	A20C446 5mL BFB...	2 May 2020 00:05
23	23	Va20050123.d	1.	0E01047-ICB2	1X 5mL DI	2 May 2020 00:32
24	24	Va20050124.d	1.	0E01047-RT1	1X 5mL A19J423	2 May 2020 01:00
25	25	Va20050125.d	1.	0E01047-IBLK8	1X 5mL DI	2 May 2020 01:27
26	26	Va20050126.d	1.	0E01047-CALC	1X 5mL 50 PPB GX	2 May 2020 01:54
27	27	Va20050127.d	1.	0E01047-CALD	1X 5mL 100 PPB GX	2 May 2020 02:22
28	28	Va20050128.d	1.	0E01047-CALE	1X 5mL 250 PPB GX	2 May 2020 02:49
29	29	Va20050129.d	1.	0E01047-CALF	1X 5mL 500 PPB GX	2 May 2020 03:16
30	30	Va20050130.d	1.	0E01047-CALG	1X 5mL 1000 PP...	2 May 2020 03:43
31	31	Va20050131.d	1.	0E01047-CALH	1X 5mL 2500 PP...	2 May 2020 04:11
32	32	Va20050132.d	1.	0E01047-CALI	1X 5mL 5000 PP...	2 May 2020 04:38
33	33	Va20050133.d	1.	0E01047-CALJ	1X 5mL 10000 P...	2 May 2020 05:06
34	34	Va20050134.d	1.	0E01047-IBLK9	1X 5mL DI	2 May 2020 05:33
35	35	Va20050135.d	1.	0E01047-IBLKA	1X 5mL DI	2 May 2020 06:00
36	36	Va20050136.d	1.	0E01047-ICV2	1X 5mL 500 PPB GX	2 May 2020 06:28
37		Va20050137.d	1.	No MS or GC data present		

05/02/2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050101.D
Acq On : 1 May 2020 2:31 pm
Operator : PS/TNL
Sample : 0E01047-IBLK1
Misc : 1X 5mL DI 0.1ppb check
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:16:49 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Sat May 02 09:01:18 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) Pentafluorobenzene (I)	5.525	99	104193	50.00 ug/L		0.00
45) Chlorobenzene-d5 (I)	9.297	117	300695	50.00 ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	11.359	152	145131	50.00 ug/L		0.00
System Monitoring Compounds						
32) Dibromofluoromethane (S)	5.026	111	83103	47.26 ug/L		0.00
39) 1,4-Difluorobenzene (S)	6.067	114	332831	50.46 ug/L		0.00
48) Toluene-d8 (S)	7.551	98	395899	50.03 ug/L		0.00
67) 4-Bromofluorobenzene (S)	10.441	174	113396	51.09 ug/L		0.00
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.402	85	153	0.08 ug/L	#	51
3) Chloromethane	1.572	50	261	0.09 ug/L	#	50
4) Vinyl Chloride	1.651	62	313	0.10 ug/L		75
5) Bromomethane	1.956	96	343	0.14 ug/L		79
6) Chloroethane	2.077	64	191	0.12 ug/L	#	47
7) Trichlorofluoromethane	2.217	101	260	0.08 ug/L		77
8) Ethanol	2.716	45	761	9.37 ug/L		100
9) 1,1-Dichloroethene	2.698	61	357	0.11 ug/L	#	25
10) Carbon Disulfide	2.716	76	1054	0.23 ug/L		78
11) Freon 113	0.000		0	N.D.		
12) Iodomethane	0.000		0	N.D.		
13) Acrolein	0.000		0	N.D.		
14) Methylene Chloride	3.282	84	5471	2.14 ug/L		88
15) Acetone	3.355	43	1629	1.14 ug/L		85
16) t-1,2-Dichloroethene	3.434	61	404	0.13 ug/L	#	70
17) n-Hexane	0.000		0	N.D.		
18) Methyl-tert-butyl-ether	3.580	73	516	0.07 ug/L		57
19) tert-Butanol (TBA)	3.701	59	4131	6.97 ug/L	#	96
20) Diisopropyl ether (DIPE)	3.957	45	57	0.01 ug/L	#	33
21) 1,1-Dichloroethane	4.042	63	283	0.07 ug/L	#	50
22) Acrylonitrile	0.000		0	N.D.		
23) Vinyl Acetate	0.000		0	N.D.		
24) Ethyl-tert-butyl ether...	0.000		0	N.D.		
25) c-1,2-Dichloroethene	4.577	61	304	0.09 ug/L	#	71
26) 2,2-Dichloropropane	0.000		0	N.D.		
27) Bromochloromethane	4.760	49	176	0.08 ug/L	#	14
28) Chloroform	4.851	83	200	0.06 ug/L	#	25
29) Carbon Tetrachloride	0.000		0	N.D.		
30) Tetrahydrofuran	5.020	42	208	0.15 ug/L	#	62
31) 1,1,1-Trichloroethane	5.033	97	184	0.06 ug/L	#	25
33) 1,1-Dichloropropene	5.166	75	369	0.12 ug/L	#	39
34) 2-Butanone (MEK)	5.197	43	434	0.18 ug/L		52
35) Benzene	5.416	78	1105	0.11 ug/L		91
36) tert-Amyl methyl ether...	5.544	73	79	0.01 ug/L	#	1
37) 1,2-Dichloroethane (EDC)	5.623	62	215	0.07 ug/L	#	49
38) iso-Butyl Alcohol	5.720	43	461	1.54 ug/L		78
40) Trichloroethene (TCE)	6.018	130	308	0.13 ug/L		74
41) tert-Amyl ethyl ether ...	0.000		0	N.D.		
42) Dibromomethane	0.000		0	N.D.		
43) 1,2-Dichloropropane	6.572	63	202	0.07 ug/L	#	40
44) Bromodichloromethane	6.657	83	112	0.05 ug/L	#	26
46) 2-Chloroethyl Vinyl Ether	7.308	63	41	0.02 ug/L	#	1
47) c-1,3-Dichloropropene	7.338	75	247	0.08 ug/L	#	33

NR
5/2/20 mf

Quantitation Report (Not Reviewed)

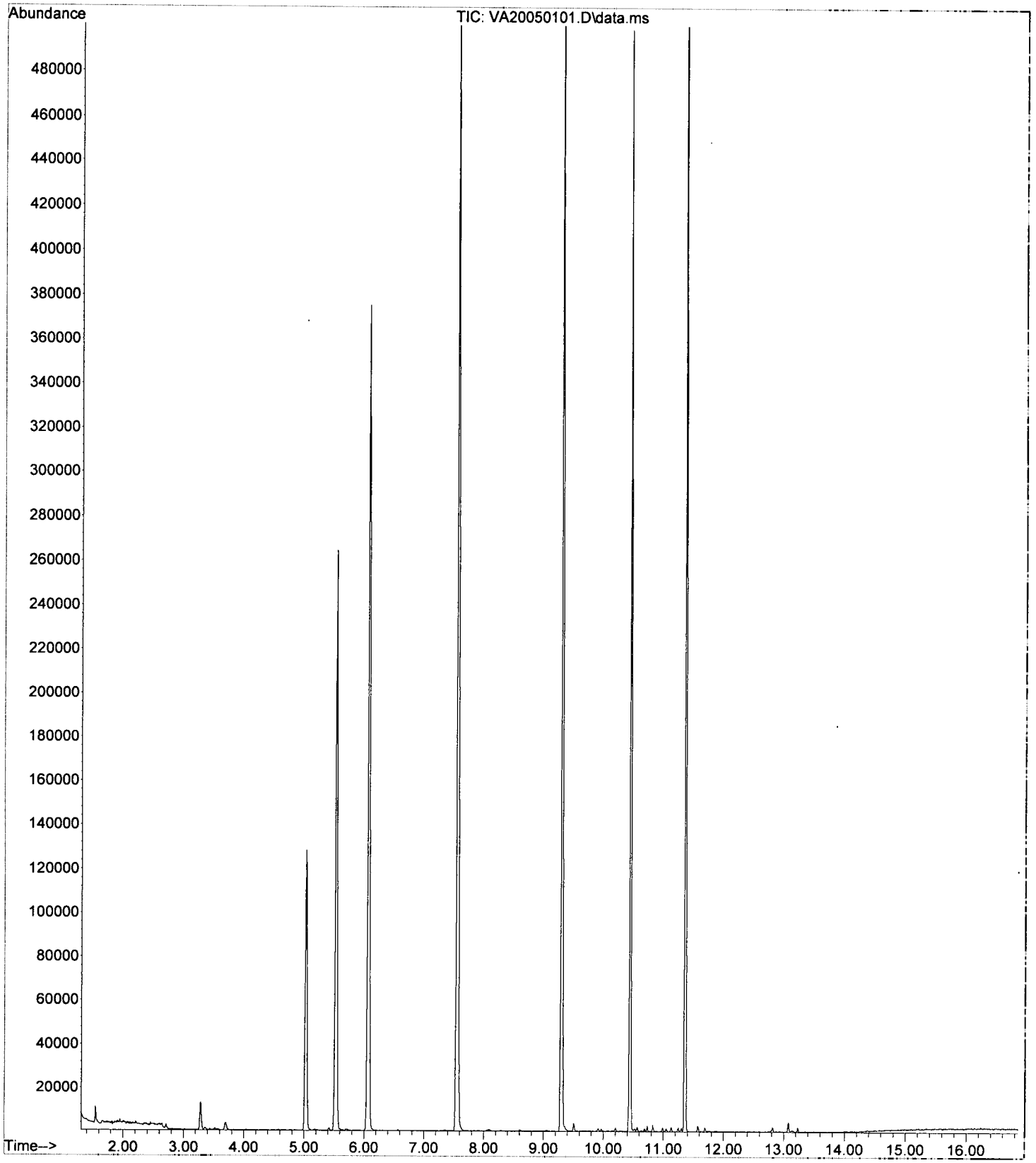
Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050101.D
Acq On : 1 May 2020 2:31 pm
Operator : PS/TNL
Sample : 0E01047-IBLK1
Misc : 1X 5mL DI 0.1ppb check
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:16:49 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Sat May 02 09:01:18 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
49) Toluene	7.606	91	1346	0.13 ug/L	84
50) Tetrachloroethene (PCE)	8.050	166	237	0.11 ug/L #	24
51) 4-Methyl-2-Pentanone (...	8.086	43	804	0.19 ug/L	86
52) t-1,3-Dichloropropene	8.123	75	242	0.64 ug/L #	45
53) 1,1,2-Trichloroethane	8.287	97	92	0.04 ug/L #	64
54) Dibromochloromethane	0.000		0	N.D.	
55) 1,3-Dichloropropane	8.616	76	417	0.10 ug/L #	56
56) 1,2-Dibromoethane (EDB)	8.743	107	108	0.05 ug/L	74
57) 2-Hexanone	9.048	43	596	0.19 ug/L	73
58) Chlorobenzene	9.309	112	838	0.13 ug/L #	1
59) Ethylbenzene	9.358	91	1386	0.12 ug/L	89
60) 1,1,1,2-Tetrachloroethane	9.388	131	87	0.05 ug/L #	75
61) m,p-Xylenes (2)	9.504	91	2098	0.26 ug/L	86
62) o-Xylene	9.911	91	848	0.11 ug/L	88
63) Styrene	9.966	104	557	0.09 ug/L	96
64) Bromoform	9.978	173	41	0.45 ug/L #	37
65) Isopropylbenzene	10.203	105	1146	0.12 ug/L	85
68) Bromobenzene	10.520	156	260	0.10 ug/L #	57
69) n-Propylbenzene	10.562	91	1771	0.15 ug/L	99
70) 1,1,2,2-Tetrachloroethane	10.629	83	356	0.11 ug/L	91
71) 2-Chlorotoluene	10.690	126	334	0.15 ug/L #	50
72) 1,3,5-Trimethylbenzene	10.733	105	1004	0.13 ug/L	86
73) 1,2,3-Trichloropropane	10.733	110	93	0.08 ug/L #	58
74) t-1,4-Dichloro-2-butene	0.000		0	N.D.	
75) 4-Chlorotoluene	10.824	91	1150	0.16 ug/L	96
76) tert-Butylbenzene	10.988	91	555	0.13 ug/L	93
77) 1,2,4-Trimethylbenzene	11.049	105	899	0.12 ug/L	91
78) sec-Butylbenzene	11.128	105	1518	0.16 ug/L	89
79) 4-Isopropyltoluene	11.250	119	1230	0.16 ug/L	84
80) 1,3-Dichlorobenzene	11.298	146	638	0.14 ug/L	88
81) 1,4-Dichlorobenzene	11.371	146	882	0.18 ug/L	73
82) n-Butylbenzene	11.572	91	1415	0.20 ug/L	97
83) 1,2-Dichlorobenzene	11.688	146	640	0.15 ug/L	95
84) 1,2-Dibromo-3-Chloropr...	0.000		0	N.D.	
85) Hexachlorobutadiene	12.789	223	106	0.17 ug/L #	56
86) 1,2,4-Trichlorobenzene	12.813	180	797	0.27 ug/L	85
87) Naphthalene	13.081	128	3322	0.37 ug/L	98
88) 1,2,3-Trichlorobenzene	13.233	180	649	0.23 ug/L	84

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

File :C:\msdchem\1\DATA\2020-05\0E01047\VA20050101.D
Operator : PS/TNL
Acquired : 1 May 2020 2:31 pm using AcqMethod VA2001RUN.M
Instrument : VOA-GCMS1
Sample Name: 0E01047-IBLK1
Misc Info : 1X 5mL DI 0.1ppb check
Vial Number: 1



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050102.D
Acq On : 1 May 2020 2:58 pm
Operator : PS/TNL
Sample : 0E01047-IBLK2
Misc : 1X 5mL DI 0.2ppb check
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:16:51 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Sat May 02 09:01:18 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	5.532	99	103615	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	9.297	117	290257	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	11.360	152	138052	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	5.033	111	82872	47.39	ug/L		0.00
39) 1,4-Difluorobenzene (S)	6.073	114	324704	49.50	ug/L		0.00
48) Toluene-d8 (S)	7.557	98	386853	50.64	ug/L		0.00
67) 4-Bromofluorobenzene (S)	10.441	174	107556	50.94	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.402	85	421	0.22	ug/L	#	51
3) Chloromethane	1.579	50	587	0.20	ug/L		85
4) Vinyl Chloride	1.652	62	643	0.21	ug/L		58
5) Bromomethane	1.956	96	538	0.22	ug/L		83
6) Chloroethane	2.083	64	397	0.24	ug/L	#	47
7) Trichlorofluoromethane	2.217	101	560	0.16	ug/L		82
8) Ethanol	2.716	45	1196	14.80	ug/L		97
9) 1,1-Dichloroethene	2.704	61	584	0.18	ug/L	#	68
10) Carbon Disulfide	2.716	76	1144	0.25	ug/L		78
11) Freon 113	2.765	101	61	0.04	ug/L	#	16
12) Iodomethane	0.000		0	N.D.			
13) Acrolein	0.000		0	N.D.			
14) Methylene Chloride	3.288	84	4628	1.82	ug/L		90
15) Acetone	3.361	43	1667	1.17	ug/L		100
16) t-1,2-Dichloroethene	3.440	61	731	0.23	ug/L	#	66
17) n-Hexane	0.000		0	N.D.			
18) Methyl-tert-butyl-ether	3.562	73	1365	0.19	ug/L		57
19) tert-Butanol (TBA)	3.696	59	6875	10.82	ug/L	#	91
20) Diisopropyl ether (DIPE)	3.957	45	297	0.04	ug/L	#	33
21) 1,1-Dichloroethane	4.048	63	870	0.20	ug/L	#	50
22) Acrylonitrile	0.000		0	N.D.			
23) Vinyl Acetate	4.340	43	324	0.08	ug/L		74
24) Ethyl-tert-butyl ether...	4.298	59	123	0.02	ug/L	#	38
25) c-1,2-Dichloroethene	4.578	61	532	0.16	ug/L	#	60
26) 2,2-Dichloropropane	4.681	77	281	0.13	ug/L		81
27) Bromochloromethane	4.760	49	379	0.17	ug/L	#	14
28) Chloroform	4.851	83	581	0.16	ug/L		69
29) Carbon Tetrachloride	0.000		0	N.D.			
30) Tetrahydrofuran	5.027	42	420	0.30	ug/L	#	69
31) 1,1,1-Trichloroethane	5.039	97	415	0.13	ug/L		86
33) 1,1-Dichloropropene	5.179	75	628	0.21	ug/L	#	68
34) 2-Butanone (MEK)	5.185	43	759	0.32	ug/L		52
35) Benzene	5.416	78	2184	0.21	ug/L		87
36) tert-Amyl methyl ether...	5.556	73	412	0.06	ug/L	#	1
37) 1,2-Dichloroethane (EDC)	5.641	62	663	0.20	ug/L	#	49
38) iso-Butyl Alcohol	5.720	43	1356	4.55	ug/L		89
40) Trichloroethene (TCE)	6.024	130	446	0.19	ug/L		87
41) tert-Amyl ethyl ether ...	6.292	59	177	0.04	ug/L	#	21
42) Dibromomethane	6.468	93	155	0.11	ug/L	#	73
43) 1,2-Dichloropropane	6.572	63	562	0.20	ug/L	#	40
44) Bromodichloromethane	6.651	83	442	0.19	ug/L		77
46) 2-Chloroethyl Vinyl Ether	7.314	63	154	0.09	ug/L	#	1
47) c-1,3-Dichloropropene	7.351	75	531	0.17	ug/L	#	56

NR
5/2/2020

Quantitation Report (Not Reviewed)

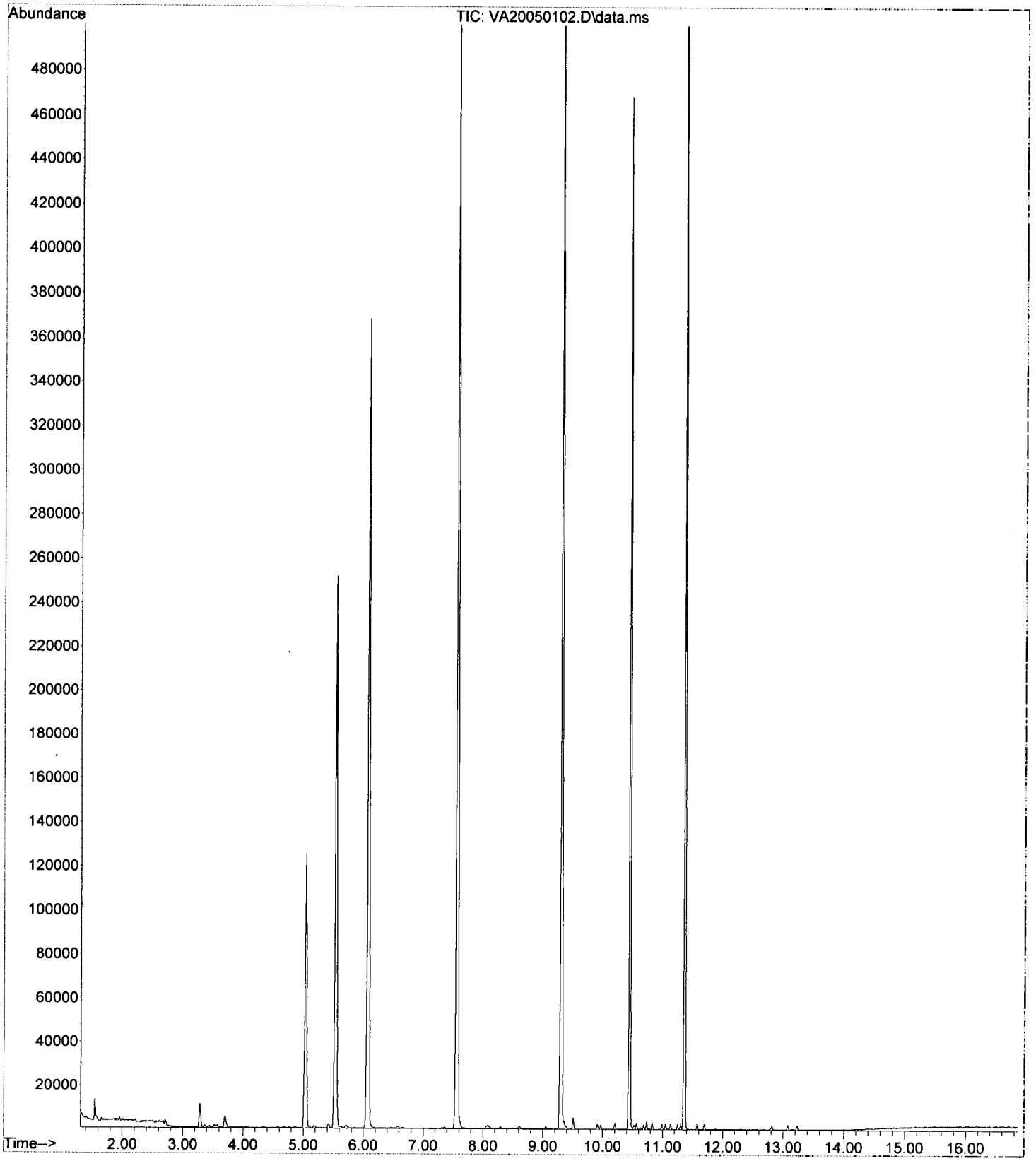
Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050102.D
Acq On : 1 May 2020 2:58 pm
Operator : PS/TNL
Sample : 0E01047-IBLK2
Misc : 1X 5mL DI 0.2ppb check
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:16:51 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Sat May 02 09:01:18 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
49) Toluene	7.612	91	2350	0.23 ug/L	92
50) Tetrachloroethene (PCE)	8.050	166	536	0.26 ug/L	96
51) 4-Methyl-2-Pentanone (...	8.081	43	1503	0.37 ug/L	87
52) t-1,3-Dichloropropene	8.111	75	456	0.71 ug/L	70
53) 1,1,2-Trichloroethane	8.300	97	375	0.18 ug/L #	60
54) Dibromochloromethane	8.488	129	154	0.38 ug/L #	42
55) 1,3-Dichloropropane	8.598	76	832	0.20 ug/L	90
56) 1,2-Dibromoethane (EDB)	8.750	107	282	0.14 ug/L	95
57) 2-Hexanone	9.048	43	1232	0.40 ug/L	87
58) Chlorobenzene	9.309	112	1368	0.21 ug/L #	13
59) Ethylbenzene	9.358	91	2305	0.21 ug/L	95
60) 1,1,1,2-Tetrachloroethane	9.395	131	401	0.23 ug/L	71
61) m,p-Xylenes (2)	9.510	91	3140	0.40 ug/L	99
62) o-Xylene	9.912	91	1642	0.21 ug/L	80
63) Styrene	9.966	104	1051	0.17 ug/L	87
64) Bromoform	9.973	173	42	0.45 ug/L #	37
65) Isopropylbenzene	10.204	105	1953	0.21 ug/L	96
68) Bromobenzene	10.526	156	496	0.21 ug/L	96
69) n-Propylbenzene	10.563	91	2444	0.22 ug/L	97
70) 1,1,2,2-Tetrachloroethane	10.636	83	591	0.19 ug/L	95
71) 2-Chlorotoluene	10.690	126	482	0.22 ug/L #	77
72) 1,3,5-Trimethylbenzene	10.733	105	1434	0.20 ug/L	84
73) 1,2,3-Trichloropropane	10.733	110	142	0.13 ug/L	95
74) t-1,4-Dichloro-2-butene	0.000		0	N.D.	
75) 4-Chlorotoluene	10.830	91	1517	0.22 ug/L	96
76) tert-Butylbenzene	10.988	91	851	0.21 ug/L #	73
77) 1,2,4-Trimethylbenzene	11.049	105	1554	0.22 ug/L	95
78) sec-Butylbenzene	11.134	105	1929	0.22 ug/L	94
79) 4-Isopropyltoluene	11.244	119	1484	0.21 ug/L	94
80) 1,3-Dichlorobenzene	11.305	146	1080	0.25 ug/L	93
81) 1,4-Dichlorobenzene	11.372	146	1227	0.27 ug/L	76
82) n-Butylbenzene	11.572	91	1582	0.24 ug/L	86
83) 1,2-Dichlorobenzene	11.688	146	926	0.22 ug/L	83
84) 1,2-Dibromo-3-Chloropr...	12.290	157	45	0.06 ug/L #	13
85) Hexachlorobutadiene	12.777	223	37	0.06 ug/L #	1
86) 1,2,4-Trichlorobenzene	12.820	180	695	0.25 ug/L	73
87) Naphthalene	13.075	128	2014	0.24 ug/L	79
88) 1,2,3-Trichlorobenzene	13.233	180	683	0.26 ug/L	93

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

File :C:\msdchem\1\DATA\2020-05\0E01047\VA20050102.D
Operator : PS/TNL
Acquired : 1 May 2020 2:58 pm using AcqMethod VA2001RUN.M
Instrument : VOA-GCMS1
Sample Name: 0E01047-IBLK2
Misc Info : 1X 5mL DI 0.2ppb check
Vial Number: 2

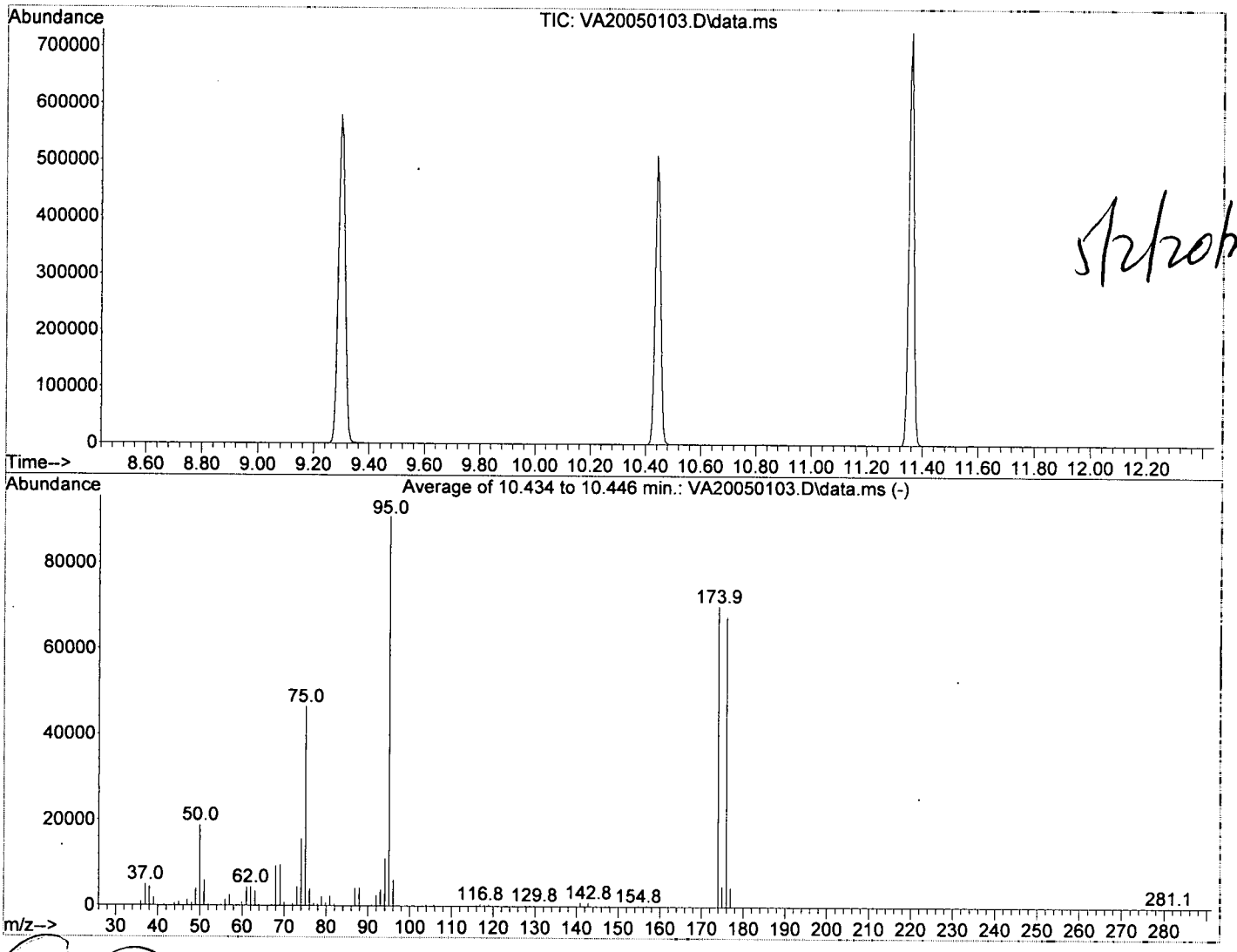


BFB

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050103.D
Acq On : 1 May 2020 3:26 pm
Operator : PS/TNL
Sample : 0E01047-TUN1
Misc : A20C446 5mL BFB (IS/SURR)
ALS Vial : 3 Sample Multiplier: 1

Integration File: RTEINT.P

Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Title : EPA 8260C: Volatile Organic Compounds
Last Update : Sat May 02 09:01:18 2020



5/2/2020

AutoFind: Scans 1499, 1500, 1501; Background Corrected with Scan 1492

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
95	174	50	200	129.6	90936	PASS
96	95	5	9	6.8	6158	PASS
173	174	0.00	2	0.1	85	PASS
174	95	50	200	77.2	70189	PASS
175	174	5	9	6.9	4813	PASS
176	174	95	105	96.6	67826	PASS
177	176	5	10	6.6	4481	PASS

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050103.D
Acq On : 1 May 2020 3:26 pm
Operator : PS/TNL
Sample : 0E01047-TUN1
Misc : A20C446 5mL BFB (IS/SURR)
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:16:53 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Sat May 02 09:01:18 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (I)	5.531	99	111141	50.00 ug/L	0.00
45) Chlorobenzene-d5 (I)	9.297	117	314398	50.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4...	11.359	152	148362	50.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane (S)	5.032	111	89187	47.55 ug/L	0.00
39) 1,4-Difluorobenzene (S)	6.072	114	345942	49.17 ug/L	0.00
48) Toluene-d8 (S)	7.557	98	419381	50.69 ug/L	0.00
67) 4-Bromofluorobenzene (S)	10.440	174	115795	51.03 ug/L	0.00
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	1.549	50	120	0.04 ug/L #	50
4) Vinyl Chloride	0.000		0	N.D.	
5) Bromomethane	0.000		0	N.D.	
6) Chloroethane	0.000		0	N.D.	
7) Trichlorofluoromethane	0.000		0	N.D.	
8) Ethanol	2.717	45	143	1.65 ug/L #	29
9) 1,1-Dichloroethene	0.000		0	N.D.	
10) Carbon Disulfide	2.723	76	258	0.05 ug/L	78
11) Freon 113	0.000		0	N.D.	
12) Iodomethane	0.000		0	N.D.	
13) Acrolein	0.000		0	N.D.	
14) Methylene Chloride	3.282	84	9006	3.30 ug/L	88
15) Acetone	3.361	43	2808	1.84 ug/L	93
16) t-1,2-Dichloroethene	0.000		0	N.D.	
17) n-Hexane	0.000		0	N.D.	
18) Methyl-tert-butyl-ether	0.000		0	N.D.	
19) tert-Butanol (TBA)	3.702	59	1289	2.04 ug/L #	99
20) Diisopropyl ether (DIPE)	0.000		0	N.D.	
21) 1,1-Dichloroethane	0.000		0	N.D.	
22) Acrylonitrile	0.000		0	N.D.	
23) Vinyl Acetate	0.000		0	N.D.	
24) Ethyl-tert-butyl ether...	0.000		0	N.D.	
25) c-1,2-Dichloroethene	0.000		0	N.D.	
26) 2,2-Dichloropropane	0.000		0	N.D.	
27) Bromochloromethane	0.000		0	N.D.	
28) Chloroform	0.000		0	N.D.	
29) Carbon Tetrachloride	0.000		0	N.D.	
30) Tetrahydrofuran	0.000		0	N.D.	
31) 1,1,1-Trichloroethane	0.000		0	N.D.	
33) 1,1-Dichloropropene	0.000		0	N.D.	
34) 2-Butanone (MEK)	0.000		0	N.D.	
35) Benzene	0.000		0	N.D.	
36) tert-Amyl methyl ether...	5.549	73	39	0.01 ug/L #	1
37) 1,2-Dichloroethane (EDC)	0.000		0	N.D.	
38) iso-Butyl Alcohol	0.000		0	N.D.	
40) Trichloroethene (TCE)	0.000		0	N.D.	
41) tert-Amyl ethyl ether ...	0.000		0	N.D.	
42) Dibromomethane	0.000		0	N.D.	
43) 1,2-Dichloropropane	0.000		0	N.D.	
44) Bromodichloromethane	0.000		0	N.D.	
46) 2-Chloroethyl Vinyl Ether	0.000		0	N.D.	
47) c-1,3-Dichloropropene	0.000		0	N.D.	

Quantitation Report (Not Reviewed)

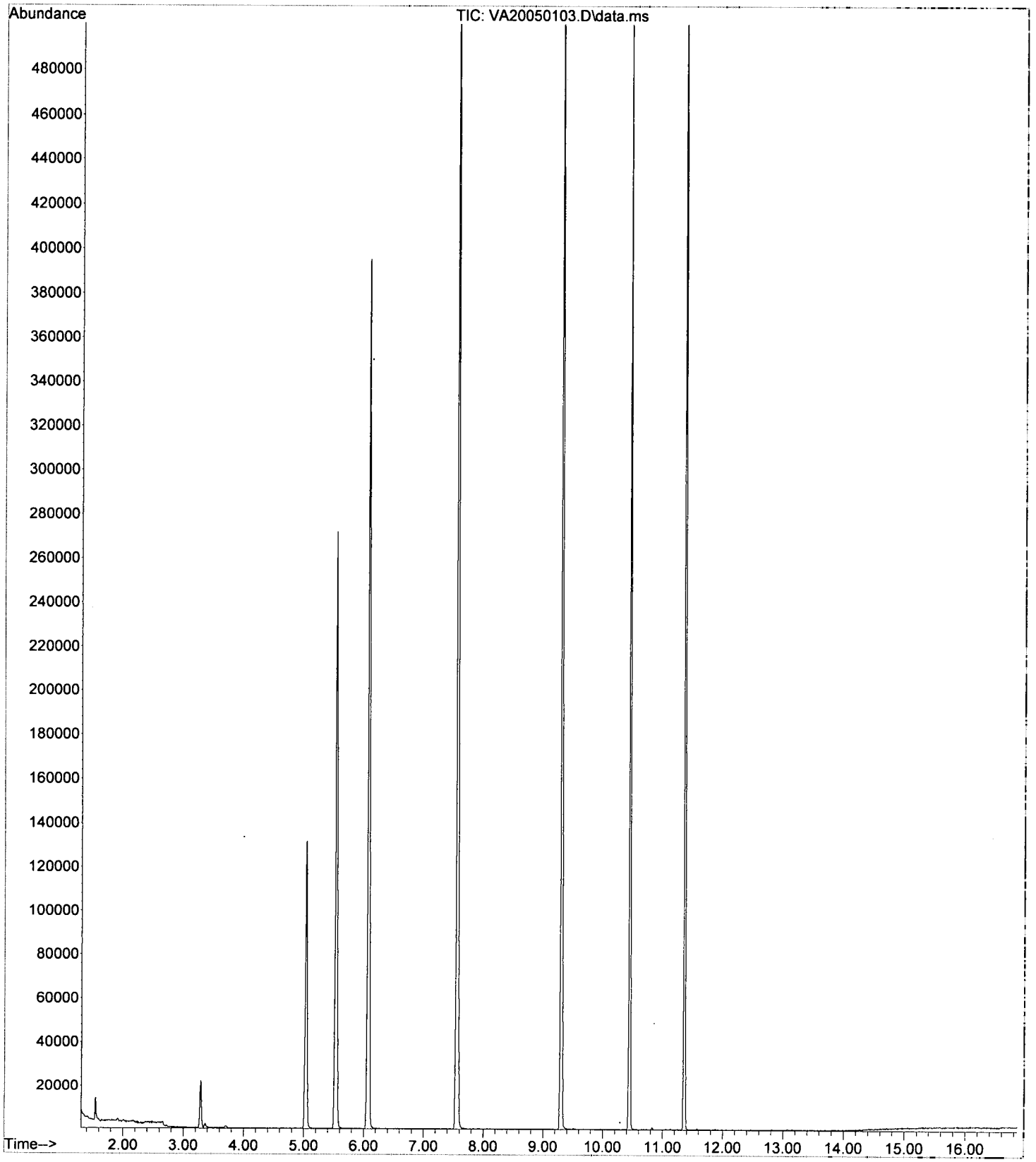
Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050103.D
Acq On : 1 May 2020 3:26 pm
Operator : PS/TNL
Sample : 0E01047-TUN1
Misc : A20C446 5mL BFB (IS/SURR)
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:16:53 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Sat May 02 09:01:18 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
49) Toluene	7.630	91	43	0.00 ug/L #	30
50) Tetrachloroethene (PCE)	0.000		0	N.D.	
51) 4-Methyl-2-Pentanone (...	0.000		0	N.D.	
52) t-1,3-Dichloropropene	0.000		0	N.D.	
53) 1,1,2-Trichloroethane	0.000		0	N.D.	
54) Dibromochloromethane	0.000		0	N.D.	
55) 1,3-Dichloropropane	0.000		0	N.D.	
56) 1,2-Dibromoethane (EDB)	0.000		0	N.D.	
57) 2-Hexanone	0.000		0	N.D.	
58) Chlorobenzene	0.000		0	N.D.	
59) Ethylbenzene	9.364	91	133	0.01 ug/L #	50
60) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.	
61) m,p-Xylenes (2)	9.510	91	316	0.04 ug/L	89
62) o-Xylene	0.000		0	N.D.	
63) Styrene	0.000		0	N.D.	
64) Bromoform	0.000		0	N.D.	
65) Isopropylbenzene	10.197	105	90	0.01 ug/L	53
68) Bromobenzene	0.000		0	N.D.	
69) n-Propylbenzene	10.562	91	285	0.02 ug/L	56
70) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.	
71) 2-Chlorotoluene	0.000		0	N.D.	
72) 1,3,5-Trimethylbenzene	10.738	105	108	0.01 ug/L #	34
73) 1,2,3-Trichloropropane	0.000		0	N.D.	
74) t-1,4-Dichloro-2-butene	0.000		0	N.D.	
75) 4-Chlorotoluene	10.824	91	158	0.02 ug/L #	46
76) tert-Butylbenzene	0.000		0	N.D.	
77) 1,2,4-Trimethylbenzene	11.043	105	184	0.02 ug/L #	36
78) sec-Butylbenzene	11.128	105	284	0.03 ug/L	58
79) 4-Isopropyltoluene	11.249	119	197	0.03 ug/L	51
80) 1,3-Dichlorobenzene	11.304	146	95	0.02 ug/L #	25
81) 1,4-Dichlorobenzene	11.365	146	181	0.04 ug/L #	1
82) n-Butylbenzene	11.578	91	387	0.05 ug/L	74
83) 1,2-Dichlorobenzene	0.000		0	N.D.	
84) 1,2-Dibromo-3-Chloropr...	0.000		0	N.D.	
85) Hexachlorobutadiene	0.000		0	N.D.	
86) 1,2,4-Trichlorobenzene	12.813	180	160	0.05 ug/L	79
87) Naphthalene	13.075	128	483	0.05 ug/L	79
88) 1,2,3-Trichlorobenzene	13.233	180	51	0.02 ug/L #	12

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

File :C:\msdchem\1\DATA\2020-05\0E01047\VA20050103.D
Operator : PS/TNL
Acquired : 1 May 2020 3:26 pm using AcqMethod VA2001RUN.M
Instrument : VOA-GCMS1
Sample Name: 0E01047-TUN1
Misc Info : A20C446 5mL BFB (IS/SURR)
Vial Number: 3



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050104.D
Acq On : 1 May 2020 3:53 pm
Operator : PS/TNL
Sample : 0E01047-ICB1
Misc : 1X 5mL DI
ALS Vial : 4 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:16:55 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Sat May 02 09:01:18 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (I)	5.532	99	111440	50.00 ug/L	0.00
45) Chlorobenzene-d5 (I)	9.297	117	315698	50.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4...	11.360	152	150464	50.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane (S)	5.033	111	91668	48.74 ug/L	0.00
39) 1,4-Difluorobenzene (S)	6.073	114	354480	50.25 ug/L	0.00
48) Toluene-d8 (S)	7.557	98	424626	51.11 ug/L	0.00
67) 4-Bromofluorobenzene (S)	10.441	174	115416	50.15 ug/L	0.00
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	1.544	50	126	0.04 ug/L #	50
4) Vinyl Chloride	0.000		0	N.D.	
5) Bromomethane	0.000		0	N.D.	
6) Chloroethane	0.000		0	N.D.	
7) Trichlorofluoromethane	0.000		0	N.D.	
8) Ethanol	2.718	45	204	2.35 ug/L #	29
9) 1,1-Dichloroethene	0.000		0	N.D.	
10) Carbon Disulfide	0.000		0	N.D.	
11) Freon 113	0.000		0	N.D.	
12) Iodomethane	0.000		0	N.D.	
13) Acrolein	0.000		0	N.D.	
14) Methylene Chloride	3.290	84	4323	1.58 ug/L	83
15) Acetone	3.357	43	1419	0.93 ug/L	99
16) t-1,2-Dichloroethene	0.000		0	N.D.	
17) n-Hexane	0.000		0	N.D.	
18) Methyl-tert-butyl-ether	0.000		0	N.D.	
19) tert-Butanol (TBA)	3.698	59	691	1.09 ug/L #	62
20) Diisopropyl ether (DIPE)	0.000		0	N.D.	
21) 1,1-Dichloroethane	0.000		0	N.D.	
22) Acrylonitrile	0.000		0	N.D.	
23) Vinyl Acetate	0.000		0	N.D.	
24) Ethyl-tert-butyl ether...	0.000		0	N.D.	
25) c-1,2-Dichloroethene	0.000		0	N.D.	
26) 2,2-Dichloropropane	0.000		0	N.D.	
27) Bromochloromethane	0.000		0	N.D.	
28) Chloroform	0.000		0	N.D.	
29) Carbon Tetrachloride	0.000		0	N.D.	
30) Tetrahydrofuran	0.000		0	N.D.	
31) 1,1,1-Trichloroethane	0.000		0	N.D.	
33) 1,1-Dichloropropene	0.000		0	N.D.	
34) 2-Butanone (MEK)	0.000		0	N.D.	
35) Benzene	5.416	78	38	0.00 ug/L	56
36) tert-Amyl methyl ether...	5.526	73	95	0.01 ug/L #	1
37) 1,2-Dichloroethane (EDC)	0.000		0	N.D.	
38) iso-Butyl Alcohol	0.000		0	N.D.	
40) Trichloroethene (TCE)	0.000		0	N.D.	
41) tert-Amyl ethyl ether ...	0.000		0	N.D.	
42) Dibromomethane	0.000		0	N.D.	
43) 1,2-Dichloropropane	0.000		0	N.D.	
44) Bromodichloromethane	0.000		0	N.D.	
46) 2-Chloroethyl Vinyl Ether	0.000		0	N.D.	
47) c-1,3-Dichloropropene	0.000		0	N.D.	

5/2/2020

CMM

Quantitation Report (Not Reviewed)

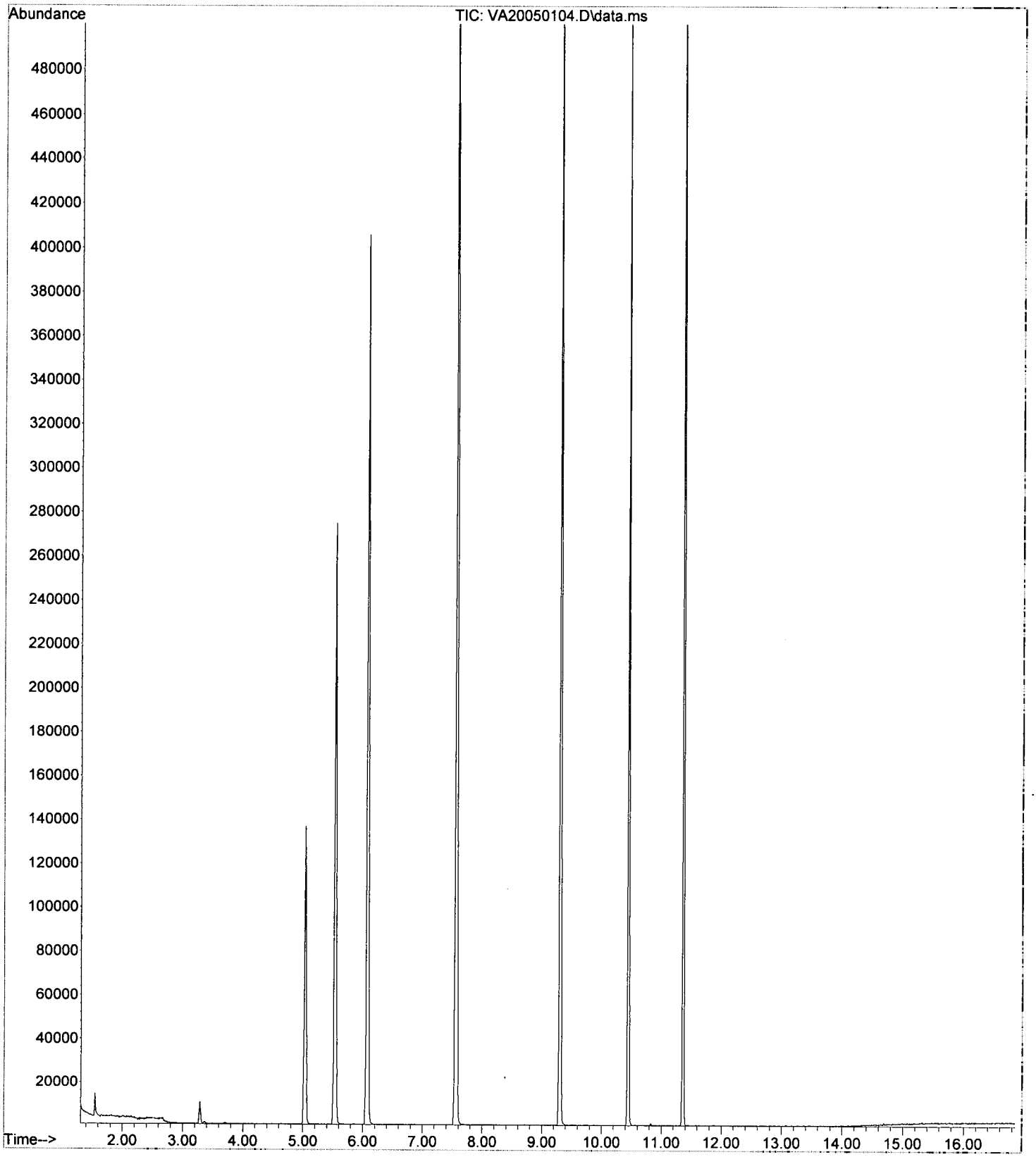
Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050104.D
Acq On : 1 May 2020 3:53 pm
Operator : PS/TNL
Sample : 0E01047-ICB1
Misc : 1X 5mL DI
ALS Vial : 4 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:16:55 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Sat May 02 09:01:18 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
49) Toluene	7.606	91	88	0.01 ug/L #	30
50) Tetrachloroethene (PCE)	0.000		0	N.D.	
51) 4-Methyl-2-Pentanone (...	0.000		0	N.D.	
52) t-1,3-Dichloropropene	0.000		0	N.D.	
53) 1,1,2-Trichloroethane	0.000		0	N.D.	
54) Dibromochloromethane	0.000		0	N.D.	
55) 1,3-Dichloropropane	0.000		0	N.D.	
56) 1,2-Dibromoethane (EDB)	0.000		0	N.D.	
57) 2-Hexanone	0.000		0	N.D.	
58) Chlorobenzene	0.000		0	N.D.	
59) Ethylbenzene	9.346	91	75	0.01 ug/L #	50
60) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.	
61) m,p-Xylenes (2)	9.510	91	284	0.03 ug/L #	34
62) o-Xylene	0.000		0	N.D.	
63) Styrene	0.000		0	N.D.	
64) Bromoform	0.000		0	N.D.	
65) Isopropylbenzene	10.204	105	41	0.00 ug/L	53
68) Bromobenzene	0.000		0	N.D.	
69) n-Propylbenzene	10.563	91	283	0.02 ug/L	56
70) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.	
71) 2-Chlorotoluene	0.000		0	N.D.	
72) 1,3,5-Trimethylbenzene	0.000		0	N.D.	
73) 1,2,3-Trichloropropane	0.000		0	N.D.	
74) t-1,4-Dichloro-2-butene	0.000		0	N.D.	
75) 4-Chlorotoluene	10.824	91	43	0.01 ug/L #	46
76) tert-Butylbenzene	0.000		0	N.D.	
77) 1,2,4-Trimethylbenzene	11.049	105	77	0.01 ug/L #	26
78) sec-Butylbenzene	11.135	105	135	0.01 ug/L	58
79) 4-Isopropyltoluene	11.250	119	169	0.02 ug/L	51
80) 1,3-Dichlorobenzene	11.299	146	57	0.01 ug/L #	25
81) 1,4-Dichlorobenzene	11.378	146	39	0.01 ug/L #	1
82) n-Butylbenzene	11.579	91	410	0.06 ug/L	58
83) 1,2-Dichlorobenzene	0.000		0	N.D.	
84) 1,2-Dibromo-3-Chloropr...	0.000		0	N.D.	
85) Hexachlorobutadiene	0.000		0	N.D.	
86) 1,2,4-Trichlorobenzene	12.814	180	47	0.02 ug/L #	11
87) Naphthalene	13.075	128	356	0.04 ug/L	79
88) 1,2,3-Trichlorobenzene	13.233	180	44	0.02 ug/L #	12

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

File :C:\msdchem\1\DATA\2020-05\0E01047\VA20050104.D
Operator : PS/TNL
Acquired : 1 May 2020 3:53 pm using AcqMethod VA2001RUN.M
Instrument : VOA-GCMS1
Sample Name: 0E01047-ICB1
Misc Info : 1X 5mL DI
Vial Number: 4



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050105.D
Acq On : 1 May 2020 4:20 pm
Operator : PS/TNL
Sample : 0E01047-CAL1
Misc : 1X 5mL 0.1 PPB VOCRO
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:42:15 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (I)	5.531	99	107744	50.00 ug/L	0.00
45) Chlorobenzene-d5 (I)	9.297	117	304590	50.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4...	11.359	152	146274	50.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane (S)	5.032	111	87819	47.10 ug/L	0.00
39) 1,4-Difluorobenzene (S)	6.072	114	341388	47.87 ug/L	0.00
48) Toluene-d8 (S)	7.557	98	407591	52.29 ug/L	0.00
67) 4-Bromofluorobenzene (S)	10.446	174	112940	48.98 ug/L	0.00
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D. d	
3) Chloromethane	0.000		0	N.D. d	
4) Vinyl Chloride	1.651	62	327	0.13 ug/L #	19
5) Bromomethane	1.956	96	323	0.21 ug/L	91
6) Chloroethane	0.000		0	N.D. d	
7) Trichlorofluoromethane	2.217	101	259	0.09 ug/L	70
8) Ethanol	2.716	45	671	8.87 ug/L	97
9) 1,1-Dichloroethene	0.000		0	N.D. d	
10) Carbon Disulfide	2.722	76	610	0.13 ug/L	78
11) Freon 113	0.000		0	N.D.	
12) Iodomethane	0.000		0	N.D.	
13) Acrolein	0.000		0	N.D.	
14) Methylene Chloride	3.288	84	5715	2.27 ug/L	88
15) Acetone	3.361	43	1649	1.22 ug/L	93
16) t-1,2-Dichloroethene	3.440	61	315	0.10 ug/L #	71
17) n-Hexane	0.000		0	N.D.	
18) Methyl-tert-butyl-ether	0.000		0	N.D. d	
19) tert-Butanol (TBA)	3.695	59	3989	6.06 ug/L #	100
20) Diisopropyl ether (DIPE)	0.000		0	N.D.	
21) 1,1-Dichloroethane	0.000		0	N.D. d	
22) Acrylonitrile	0.000		0	N.D.	
23) Vinyl Acetate	0.000		0	N.D.	
24) Ethyl-tert-butyl ether...	0.000		0	N.D.	
25) c-1,2-Dichloroethene	0.000		0	N.D. d	
26) 2,2-Dichloropropane	0.000		0	N.D.	
27) Bromochloromethane	0.000		0	N.D. d	
28) Chloroform	0.000		0	N.D. d	
29) Carbon Tetrachloride	0.000		0	N.D.	
30) Tetrahydrofuran	5.026	42	215	0.16 ug/L #	30
31) 1,1,1-Trichloroethane	5.038	97	251	0.07 ug/L	78
33) 1,1-Dichloropropene	5.178	75	250	0.08 ug/L #	39
34) 2-Butanone (MEK)	0.000		0	N.D. d	
35) Benzene	5.415	78	1169	0.12 ug/L	93
36) tert-Amyl methyl ether...	0.000		0	N.D. d	
37) 1,2-Dichloroethane (EDC)	0.000		0	N.D. d	
38) iso-Butyl Alcohol	5.720	43	502	1.71 ug/L	93
40) Trichloroethene (TCE)	6.036	130	149	0.06 ug/L #	69
41) tert-Amyl ethyl ether ...	0.000		0	N.D.	
42) Dibromomethane	0.000		0	N.D.	
43) 1,2-Dichloropropane	6.571	63	293	0.12 ug/L #	40
44) Bromodichloromethane	0.000		0	N.D. d	
46) 2-Chloroethyl Vinyl Ether	0.000		0	N.D. d	
47) c-1,3-Dichloropropene	7.362	75	195	0.06 ug/L #	61

05/01/2020

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050105.D
Acq On : 1 May 2020 4:20 pm
Operator : PS/TNL
Sample : 0E01047-CAL1
Misc : 1X 5mL 0.1 PPB VOCRO
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:42:15 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
49) Toluene	7.618	91	1187	0.12 ug/L	84
50) Tetrachloroethene (PCE)	8.056	166	161	0.08 ug/L #	62
51) 4-Methyl-2-Pentanone (...	8.086	43	671	0.18 ug/L	88
52) t-1,3-Dichloropropene	0.000		0	N.D. d	
53) 1,1,2-Trichloroethane	8.287	97	173	0.08 ug/L #	12
54) Dibromochloromethane	0.000		0	N.D.	
55) 1,3-Dichloropropane	8.603	76	474	0.13 ug/L #	71
56) 1,2-Dibromoethane (EDB)	0.000		0	N.D. d	
57) 2-Hexanone	9.059	43	475	0.16 ug/L	74
58) Chlorobenzene	9.321	112	805	0.13 ug/L	74
59) Ethylbenzene	9.364	91	1332	0.13 ug/L	88
60) 1,1,1,2-Tetrachloroethane	0.000		0	N.D. d	
61) m,p-Xylenes (2)	9.510	91	1706	0.23 ug/L	73
62) o-Xylene	9.923	91	819	0.11 ug/L	80
63) Styrene	9.966	104	522	0.09 ug/L	89
64) Bromoform	0.000		0	N.D.	
65) Isopropylbenzene	10.203	105	909	0.10 ug/L	96
68) Bromobenzene	10.519	156	293	0.12 ug/L #	74
69) n-Propylbenzene	10.568	91	1312	0.13 ug/L	91
70) 1,1,2,2-Tetrachloroethane	10.629	83	290	0.11 ug/L	71
71) 2-Chlorotoluene	10.690	126	191	0.09 ug/L #	74
72) 1,3,5-Trimethylbenzene	10.726	105	792	0.12 ug/L	89
73) 1,2,3-Trichloropropane	0.000		0	N.D.	
74) t-1,4-Dichloro-2-butene	0.000		0	N.D.	
75) 4-Chlorotoluene	10.830	91	780	0.12 ug/L	81
76) tert-Butylbenzene	10.988	91	425	0.11 ug/L #	82
77) 1,2,4-Trimethylbenzene	11.049	105	726	0.11 ug/L	87
78) sec-Butylbenzene	11.134	105	911	0.10 ug/L	72
79) 4-Isopropyltoluene	11.249	119	799	0.11 ug/L	88
80) 1,3-Dichlorobenzene	11.298	146	506	0.12 ug/L	91
81) 1,4-Dichlorobenzene	11.371	146	665	0.15 ug/L #	70
82) n-Butylbenzene	11.578	91	784	0.13 ug/L	97
83) 1,2-Dichlorobenzene	11.700	146	425	0.10 ug/L	94
84) 1,2-Dibromo-3-Chloropr...	0.000		0	N.D.	
85) Hexachlorobutadiene	0.000		0	N.D.	
86) 1,2,4-Trichlorobenzene	12.813	180	367	0.13 ug/L	68
87) Naphthalene	13.081	128	898	0.10 ug/L	78
88) 1,2,3-Trichlorobenzene	13.233	180	343	0.13 ug/L	69

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050105.D
Acq On : 1 May 2020 4:20 pm
Operator : PS/TNL
Sample : 0E01047-CAL1
Misc : 1X 5mL 0.1 PPB VOCRO
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:10 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

5/2/2020

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	5.531	99	107744	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	9.297	117	304590	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	11.359	152	146274	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	5.032	111	87819	47.10	ug/L		0.00
39) 1,4-Difluorobenzene (S)	6.072	114	341388	47.87	ug/L		0.00
48) Toluene-d8 (S)	7.557	98	407591	52.29	ug/L		0.00
67) 4-Bromofluorobenzene (S)	10.446	174	112940	48.98	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.402	85	154	0.08	ug/L	#	51
3) Chloromethane	1.578	50	376	0.14	ug/L	#	50
4) Vinyl Chloride	1.651	62	327	0.13	ug/L	#	19
5) Bromomethane	1.956	96	323	0.21	ug/L		91
6) Chloroethane	2.083	64	211	Below Cal		#	47
7) Trichlorofluoromethane	2.217	101	259	0.09	ug/L		70
8) Ethanol	2.716	45	671	8.87	ug/L		97
9) 1,1-Dichloroethene	2.710	61	304	0.11	ug/L	#	25
10) Carbon Disulfide	2.722	76	610	0.18	ug/L		78
11) Freon 113	0.000		0	N.D.			
12) Iodomethane	0.000		0	N.D.			
13) Acrolein	0.000		0	N.D.			
14) Methylene Chloride	3.288	84	5715	2.27	ug/L		88
15) Acetone	3.361	43	1649	1.22	ug/L		93
16) t-1,2-Dichloroethene	3.440	61	315	0.10	ug/L	#	71
17) n-Hexane	0.000		0	N.D.			
18) Methyl-tert-butyl-ether	3.586	73	682	0.09	ug/L		57
19) tert-Butanol (TBA)	3.695	59	3989	6.06	ug/L	#	100
20) Diisopropyl ether (DIPE)	0.000		0	N.D.			
21) 1,1-Dichloroethane	4.048	63	281	0.07	ug/L	#	50
22) Acrylonitrile	0.000		0	N.D.			
23) Vinyl Acetate	0.000		0	N.D.			
24) Ethyl-tert-butyl ether...	0.000		0	N.D.			
25) c-1,2-Dichloroethene	4.577	61	216	0.07	ug/L	#	18
26) 2,2-Dichloropropane	0.000		0	N.D.			
27) Bromochloromethane	4.766	49	123	0.06	ug/L	#	14
28) Chloroform	4.857	83	149	0.04	ug/L	#	25
29) Carbon Tetrachloride	0.000		0	N.D.			
30) Tetrahydrofuran	5.026	42	215	0.16	ug/L	#	30
31) 1,1,1-Trichloroethane	5.038	97	251	0.07	ug/L		78
33) 1,1-Dichloropropene	5.178	75	250	0.08	ug/L	#	39
34) 2-Butanone (MEK)	5.196	43	187	0.09	ug/L		52
35) Benzene	5.415	78	1169	0.12	ug/L		93
36) tert-Amyl methyl ether...	5.549	73	143	0.02	ug/L	#	1
37) 1,2-Dichloroethane (EDC)	5.634	62	295	0.10	ug/L	#	49
38) iso-Butyl Alcohol	5.720	43	502	1.71	ug/L		93
40) Trichloroethene (TCE)	6.036	130	149	0.06	ug/L	#	69
41) tert-Amyl ethyl ether ...	0.000		0	N.D.			
42) Dibromomethane	0.000		0	N.D.			
43) 1,2-Dichloropropane	6.571	63	293	0.12	ug/L	#	40
44) Bromodichloromethane	6.656	83	79	0.03	ug/L	#	26
46) 2-Chloroethyl Vinyl Ether	7.314	63	41	0.02	ug/L	#	1
47) c-1,3-Dichloropropene	7.362	75	195	0.06	ug/L	#	61

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050105.D
Acq On : 1 May 2020 4:20 pm
Operator : PS/TNL
Sample : 0E01047-CAL1
Misc : 1X 5mL 0.1 PPB VOCRO
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:10 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

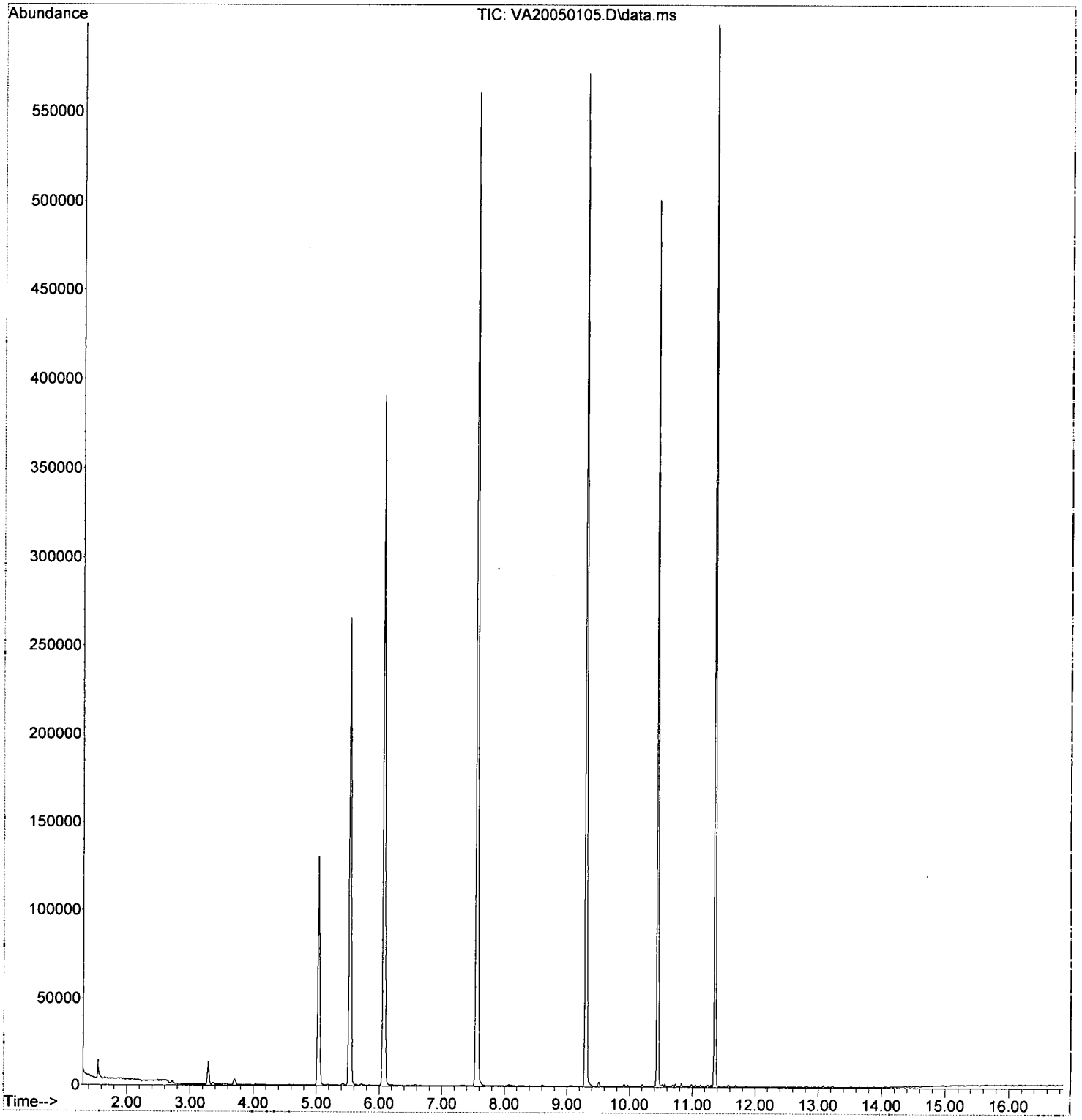
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49) Toluene	7.618	91	1187	0.12	ug/L		84
50) Tetrachloroethene (PCE)	8.056	166	161	0.08	ug/L	#	62
51) 4-Methyl-2-Pentanone (...	8.086	43	671	0.18	ug/L		88
52) t-1,3-Dichloropropene	8.110	75	54	0.02	ug/L	#	45
53) 1,1,2-Trichloroethane	8.287	97	173	0.08	ug/L	#	12
54) Dibromochloromethane	0.000		0	N.D.			
55) 1,3-Dichloropropane	8.603	76	474	0.13	ug/L	#	71
56) 1,2-Dibromoethane (EDB)	8.749	107	99	0.13	ug/L	#	7
57) 2-Hexanone	9.059	43	475	0.16	ug/L		74
58) Chlorobenzene	9.321	112	805	0.13	ug/L		74
59) Ethylbenzene	9.364	91	1332	0.13	ug/L		88
60) 1,1,1,2-Tetrachloroethane	9.388	131	48	0.16	ug/L	#	62
61) m,p-Xylenes (2)	9.510	91	1706	0.23	ug/L		73
62) o-Xylene	9.923	91	819	0.11	ug/L		80
63) Styrene	9.966	104	522	0.09	ug/L		89
64) Bromoform	0.000		0	N.D.			
65) Isopropylbenzene	10.203	105	909	0.10	ug/L		96
68) Bromobenzene	10.519	156	293	0.12	ug/L	#	74
69) n-Propylbenzene	10.568	91	1312	0.13	ug/L		91
70) 1,1,2,2-Tetrachloroethane	10.629	83	290	0.11	ug/L		71
71) 2-Chlorotoluene	10.690	126	191	0.09	ug/L	#	74
72) 1,3,5-Trimethylbenzene	10.726	105	792	0.12	ug/L		89
73) 1,2,3-Trichloropropane	0.000		0	N.D.			
74) t-1,4-Dichloro-2-butene	0.000		0	N.D.			
75) 4-Chlorotoluene	10.830	91	780	0.12	ug/L		81
76) tert-Butylbenzene	10.988	91	425	0.11	ug/L	#	82
77) 1,2,4-Trimethylbenzene	11.049	105	726	0.11	ug/L		87
78) sec-Butylbenzene	11.134	105	911	0.10	ug/L		72
79) 4-Isopropyltoluene	11.249	119	799	0.11	ug/L		88
80) 1,3-Dichlorobenzene	11.298	146	506	0.12	ug/L		91
81) 1,4-Dichlorobenzene	11.371	146	665	0.15	ug/L	#	70
82) n-Butylbenzene	11.578	91	784	0.13	ug/L		97
83) 1,2-Dichlorobenzene	11.700	146	425	0.10	ug/L		94
84) 1,2-Dibromo-3-Chloropr...	0.000		0	N.D.			
85) Hexachlorobutadiene	0.000		0	N.D.			
86) 1,2,4-Trichlorobenzene	12.813	180	367	0.13	ug/L		68
87) Naphthalene	13.081	128	898	0.10	ug/L		78
88) 1,2,3-Trichlorobenzene	13.233	180	343	0.13	ug/L		69

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050105.D
Acq On : 1 May 2020 4:20 pm
Operator : PS/TNL
Sample : 0E01047-CAL1
Misc : 1X 5mL 0.1 PPB VOCRO
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:10 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050106.D
Acq On : 1 May 2020 4:48 pm
Operator : PS/TNL
Sample : 0E01047-CAL2
Misc : 1X 5mL 0.2 PPB VOCRO
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:44:58 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	5.532	99	109044	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	9.297	117	307719	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	11.360	152	138383	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	5.033	111	87881	46.57	ug/L		0.00
39) 1,4-Difluorobenzene (S)	6.073	114	345619	47.88	ug/L		0.00
48) Toluene-d8 (S)	7.558	98	411079	52.20	ug/L		0.00
67) 4-Bromofluorobenzene (S)	10.441	174	111042	50.90	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.404	85	339	0.17	ug/L		79
3) Chloromethane	1.581	50	781	0.29	ug/L		92
4) Vinyl Chloride	1.654	62	721	0.28	ug/L		77
5) Bromomethane	1.952	96	655	0.42	ug/L		84
6) Chloroethane	2.086	64	524	Below Cal		#	47
7) Trichlorofluoromethane	2.213	101	756	0.26	ug/L		66
8) Ethanol	2.718	45	1148	15.00	ug/L		87
9) 1,1-Dichloroethene	2.706	61	605	0.21	ug/L		98
10) Carbon Disulfide	2.718	76	960	0.20	ug/L		78
11) Freon 113	0.000		0	N.D.	d		
12) Iodomethane	0.000		0	N.D.			
13) Acrolein	0.000		0	N.D.			
14) Methylene Chloride	3.284	84	4623	1.81	ug/L		88
15) Acetone	3.357	43	1737	1.27	ug/L		93
16) t-1,2-Dichloroethene	3.442	61	670	0.22	ug/L		84
17) n-Hexane	0.000		0	N.D.			
18) Methyl-tert-butyl-ether	3.582	73	1643	0.22	ug/L		93
19) tert-Butanol (TBA)	3.698	59	7335	11.01	ug/L	#	79
20) Diisopropyl ether (DIPE)	3.959	45	278	0.04	ug/L	#	33
21) 1,1-Dichloroethane	4.045	63	907	0.22	ug/L		76
22) Acrylonitrile	0.000		0	N.D.			
23) Vinyl Acetate	0.000		0	N.D.	d		
24) Ethyl-tert-butyl ether...	0.000		0	N.D.	d		
25) c-1,2-Dichloroethene	4.580	61	689	0.22	ug/L	#	71
26) 2,2-Dichloropropane	4.671	77	315	0.13	ug/L		75
27) Bromochloromethane	4.762	49	468	0.23	ug/L	#	14
28) Chloroform	4.854	83	625	0.17	ug/L		82
29) Carbon Tetrachloride	0.000		0	N.D.			
30) Tetrahydrofuran	5.021	42	395	0.28	ug/L	#	64
31) 1,1,1-Trichloroethane	5.045	97	518	0.15	ug/L		82
33) 1,1-Dichloropropene	5.179	75	643	0.21	ug/L	#	64
34) 2-Butanone (MEK)	0.000		0	N.D.	d		
35) Benzene	5.416	78	2265	0.22	ug/L		91
36) tert-Amyl methyl ether...	5.562	73	239	0.08	ug/L	#	1
37) 1,2-Dichloroethane (EDC)	5.629	62	780	0.27	ug/L	#	49
38) iso-Butyl Alcohol	5.714	43	1386m	4.67	ug/L		
40) Trichloroethene (TCE)	6.031	130	533	0.22	ug/L		95
41) tert-Amyl ethyl ether ...	6.304	59	239	0.05	ug/L	#	21
42) Dibromomethane	6.469	93	178	0.13	ug/L	#	63
43) 1,2-Dichloropropane	6.578	63	643	0.25	ug/L		98
44) Bromodichloromethane	6.657	83	423	0.17	ug/L		85
46) 2-Chloroethyl Vinyl Ether	7.314	63	180	0.10	ug/L	#	1
47) c-1,3-Dichloropropene	7.357	75	566	0.17	ug/L	#	51

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050106.D
Acq On : 1 May 2020 4:48 pm
Operator : PS/TNL
Sample : 0E01047-CAL2
Misc : 1X 5mL 0.2 PPB VOCRO
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:44:58 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

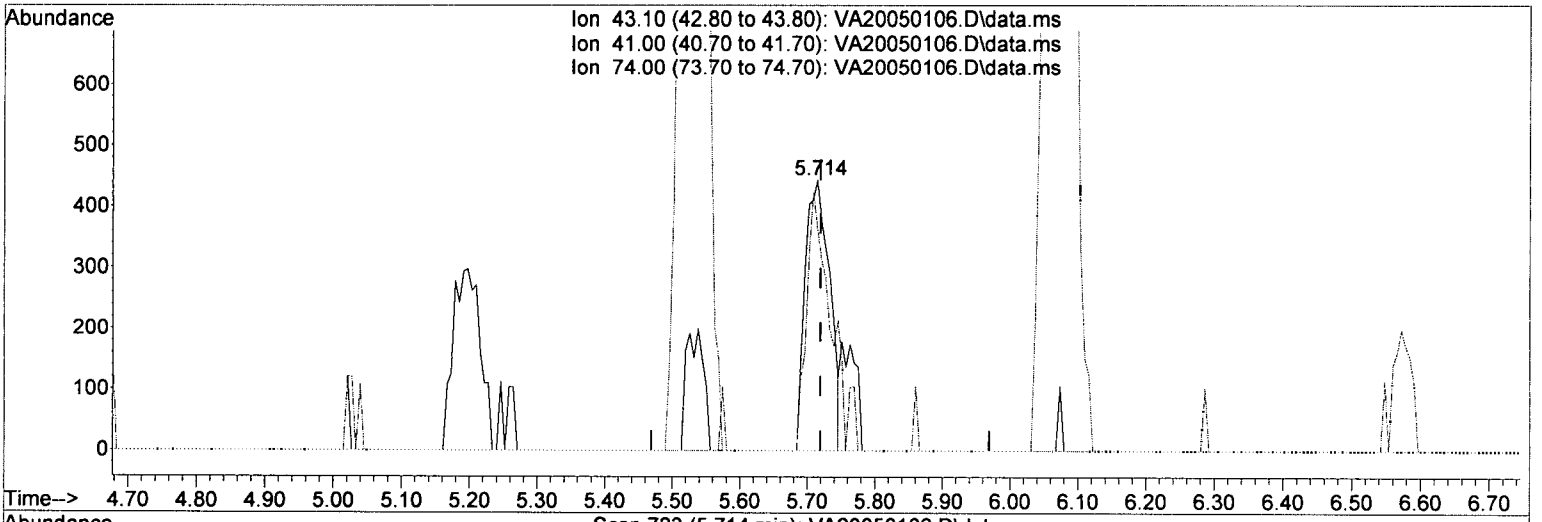
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49) Toluene	7.612	91	2456	0.25	ug/L		85
50) Tetrachloroethene (PCE)	8.056	166	476	0.22	ug/L		82
51) 4-Methyl-2-Pentanone (...	8.081	43	1556	0.41	ug/L		87
52) t-1,3-Dichloropropene	0.000		0	N.D.	d		
53) 1,1,2-Trichloroethane	8.288	97	424	0.20	ug/L		94
54) Dibromochloromethane	0.000		0	N.D.	d		
55) 1,3-Dichloropropane	8.616	76	907	0.24	ug/L	#	69
56) 1,2-Dibromoethane (EDB)	8.744	107	379	0.26	ug/L		77
57) 2-Hexanone	9.042	43	1073	0.36	ug/L		80
58) Chlorobenzene	9.316	112	1492	0.24	ug/L	#	50
59) Ethylbenzene	9.358	91	2354	0.23	ug/L		96
60) 1,1,1,2-Tetrachloroethane	9.389	131	297	0.30	ug/L		88
61) m,p-Xylenes (2)	9.510	91	3478	0.46	ug/L		94
62) o-Xylene	9.918	91	1633	0.21	ug/L		93
63) Styrene	9.967	104	1073	0.17	ug/L		92
64) Bromoform	0.000		0	N.D.	d		
65) Isopropylbenzene	10.204	105	1760	0.19	ug/L		95
68) Bromobenzene	10.526	156	539	0.24	ug/L		85
69) n-Propylbenzene	10.563	91	2460	0.25	ug/L		85
70) 1,1,2,2-Tetrachloroethane	10.630	83	643	0.25	ug/L		95
71) 2-Chlorotoluene	10.691	126	514	0.26	ug/L	#	83
72) 1,3,5-Trimethylbenzene	10.733	105	1396	0.22	ug/L		89
73) 1,2,3-Trichloropropane	10.733	110	205	0.21	ug/L		93
74) t-1,4-Dichloro-2-butene	0.000		0	N.D.			
75) 4-Chlorotoluene	10.824	91	1446	0.24	ug/L		95
76) tert-Butylbenzene	10.989	91	879	0.24	ug/L		81
77) 1,2,4-Trimethylbenzene	11.049	105	1461	0.23	ug/L		84
78) sec-Butylbenzene	11.135	105	1910	0.23	ug/L		94
79) 4-Isopropyltoluene	11.250	119	1432	0.21	ug/L		93
80) 1,3-Dichlorobenzene	11.299	146	1065	0.26	ug/L		93
81) 1,4-Dichlorobenzene	11.372	146	1143	0.27	ug/L	#	78
82) n-Butylbenzene	11.573	91	1541	0.26	ug/L		94
83) 1,2-Dichlorobenzene	11.694	146	965	0.24	ug/L		95
84) 1,2-Dibromo-3-Chloropr...	0.000		0	N.D.			
85) Hexachlorobutadiene	12.783	223	107	0.17	ug/L	#	29
86) 1,2,4-Trichlorobenzene	12.808	180	677	0.26	ug/L		95
87) Naphthalene	13.075	128	1610	0.19	ug/L		89
88) 1,2,3-Trichlorobenzene	13.227	180	639	0.25	ug/L		78

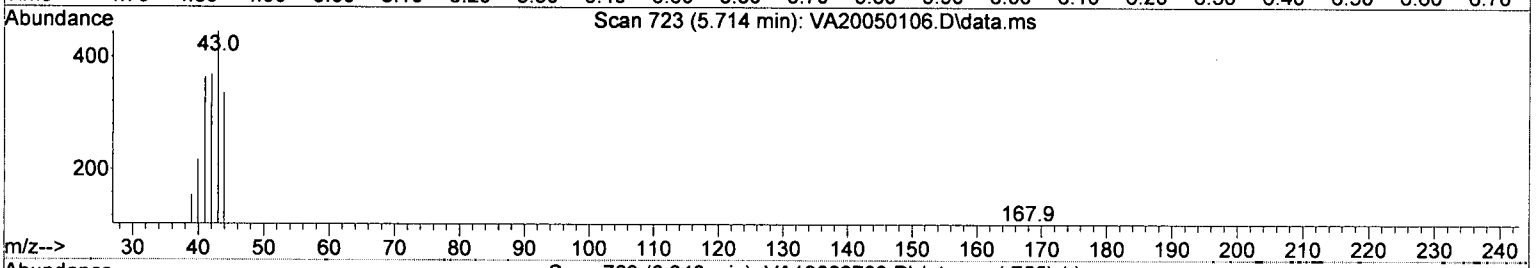
(#) = qualifier out of range (m) = manual integration (+) = signals summed

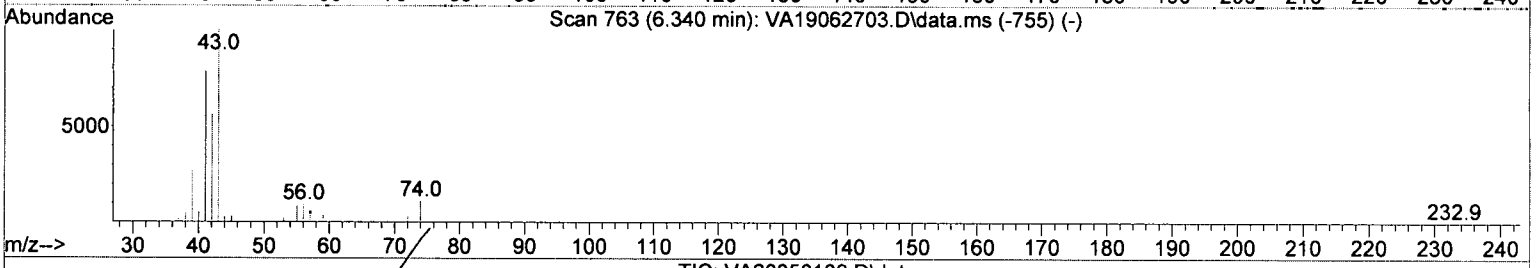
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050106.D
Acq On : 1 May 2020 4:48 pm
Operator : PS/TNL
Sample : 0E01047-CAL2
Misc : 1X 5mL 0.2 PPB VOCRO
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:12 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration







TIC: VA20050106.D\data.ms

(38) iso-Butyl Alcohol

5.714min (-0.005) 3.72 ug/L

response 1106

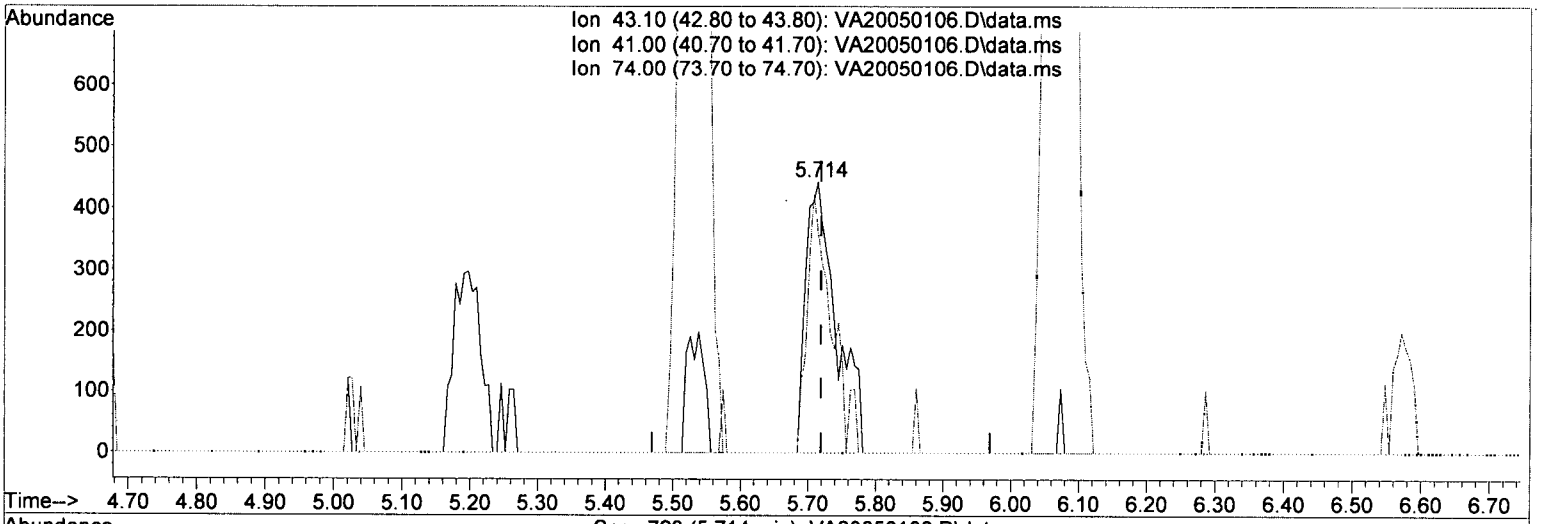
Ion	Exp%	Act%
43.10	100	100
41.00	71.80	82.21
74.00	11.60	0.00
0.00	0.00	0.00

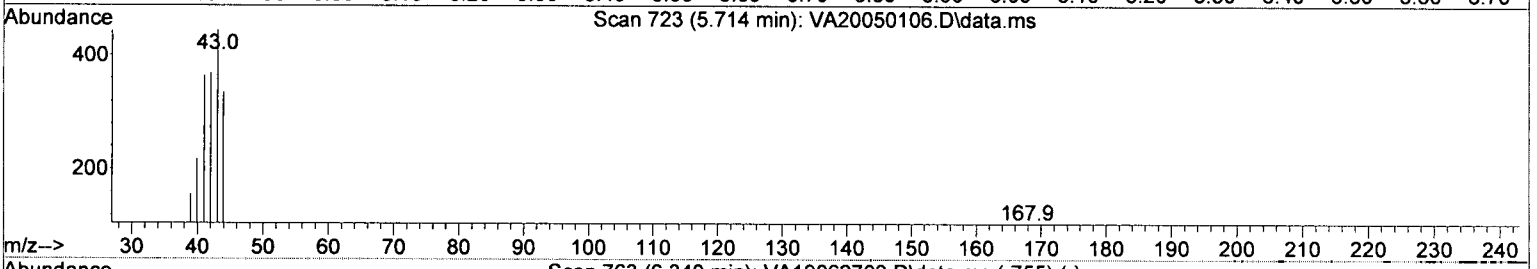
ME 5/2/2020

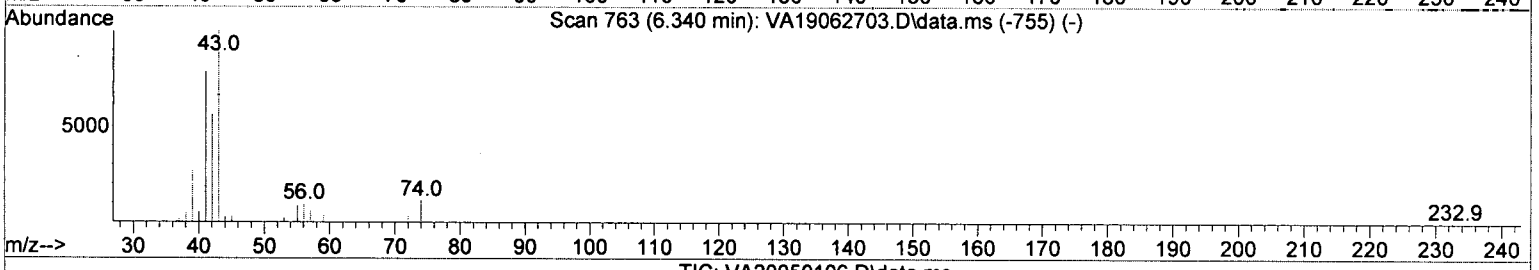
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050106.D
Acq On : 1 May 2020 4:48 pm
Operator : PS/TNL
Sample : 0E01047-CAL2
Misc : 1X 5mL 0.2 PPB VOCRO
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:12 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration







TIC: VA20050106.D\data.ms

(38) iso-Butyl Alcohol

5.714min (-0.005) 4.67 ug/L m

response 1386

Ion	Exp%	Act%
43.10	100	100
41.00	71.80	82.21
74.00	11.60	0.00
0.00	0.00	0.00

5/12/20 MJ

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050106.D
Acq On : 1 May 2020 4:48 pm
Operator : PS/TNL
Sample : 0E01047-CAL2
Misc : 1X 5mL 0.2 PPB VOCRO
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:12 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	5.532	99	109044	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	9.297	117	307719	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	11.360	152	138383	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	5.033	111	87881	46.57	ug/L		0.00
39) 1,4-Difluorobenzene (S)	6.073	114	345619	47.88	ug/L		0.00
48) Toluene-d8 (S)	7.558	98	411079	52.20	ug/L		0.00
67) 4-Bromofluorobenzene (S)	10.441	174	111042	50.90	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.404	85	339	0.17	ug/L		79
3) Chloromethane	1.581	50	781	0.29	ug/L		92
4) Vinyl Chloride	1.654	62	721	0.28	ug/L		77
5) Bromomethane	1.952	96	655	0.42	ug/L		84
6) Chloroethane	2.086	64	524	Below Cal		#	47
7) Trichlorofluoromethane	2.213	101	756	0.26	ug/L		66
8) Ethanol	2.718	45	1148	15.00	ug/L		87
9) 1,1-Dichloroethene	2.706	61	605	0.21	ug/L		98
10) Carbon Disulfide	2.718	76	960	0.20	ug/L		78
11) Freon 113	2.761	101	124	0.07	ug/L	#	16
12) Iodomethane	0.000		0	N.D.			
13) Acrolein	0.000		0	N.D.			
14) Methylene Chloride	3.284	84	4623	1.81	ug/L		88
15) Acetone	3.357	43	1737	1.27	ug/L		93
16) t-1,2-Dichloroethene	3.442	61	670	0.22	ug/L		84
17) n-Hexane	0.000		0	N.D.			
18) Methyl-tert-butyl-ether	3.582	73	1643	0.22	ug/L		93
19) tert-Butanol (TBA)	3.698	59	7335	11.01	ug/L	#	79
20) Diisopropyl ether (DIPE)	3.959	45	278	0.04	ug/L	#	33
21) 1,1-Dichloroethane	4.045	63	907	0.22	ug/L		76
22) Acrylonitrile	0.000		0	N.D.			
23) Vinyl Acetate	4.330	43	187	0.04	ug/L		74
24) Ethyl-tert-butyl ether...	4.300	59	69	0.01	ug/L	#	38
25) c-1,2-Dichloroethene	4.580	61	689	0.22	ug/L	#	71
26) 2,2-Dichloropropane	4.671	77	315	0.13	ug/L		75
27) Bromochloromethane	4.762	49	468	0.23	ug/L	#	14
28) Chloroform	4.854	83	625	0.17	ug/L		82
29) Carbon Tetrachloride	0.000		0	N.D.			
30) Tetrahydrofuran	5.021	42	395	0.28	ug/L	#	64
31) 1,1,1-Trichloroethane	5.045	97	518	0.15	ug/L		82
33) 1,1-Dichloropropene	5.179	75	643	0.21	ug/L	#	64
34) 2-Butanone (MEK)	5.197	43	823	0.38	ug/L		52
35) Benzene	5.416	78	2265	0.22	ug/L		91
36) tert-Amyl methyl ether...	5.562	73	239	0.03	ug/L	#	1
37) 1,2-Dichloroethane (EDC)	5.629	62	780	0.27	ug/L	#	49
38) iso-Butyl Alcohol	5.714	43	1106	3.72	ug/L		85
40) Trichloroethene (TCE)	6.031	130	533	0.22	ug/L		95
41) tert-Amyl ethyl ether ...	6.304	59	239	0.05	ug/L	#	21
42) Dibromomethane	6.469	93	178	0.13	ug/L	#	63
43) 1,2-Dichloropropane	6.578	63	643	0.25	ug/L		98
44) Bromodichloromethane	6.657	83	423	0.17	ug/L		85
46) 2-Chloroethyl Vinyl Ether	7.314	63	180	0.10	ug/L	#	1
47) c-1,3-Dichloropropene	7.357	75	566	0.17	ug/L	#	51

5/2/20 tnl

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050106.D
Acq On : 1 May 2020 4:48 pm
Operator : PS/TNL
Sample : 0E01047-CAL2
Misc : 1X 5mL 0.2 PPB VOCRO
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:12 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

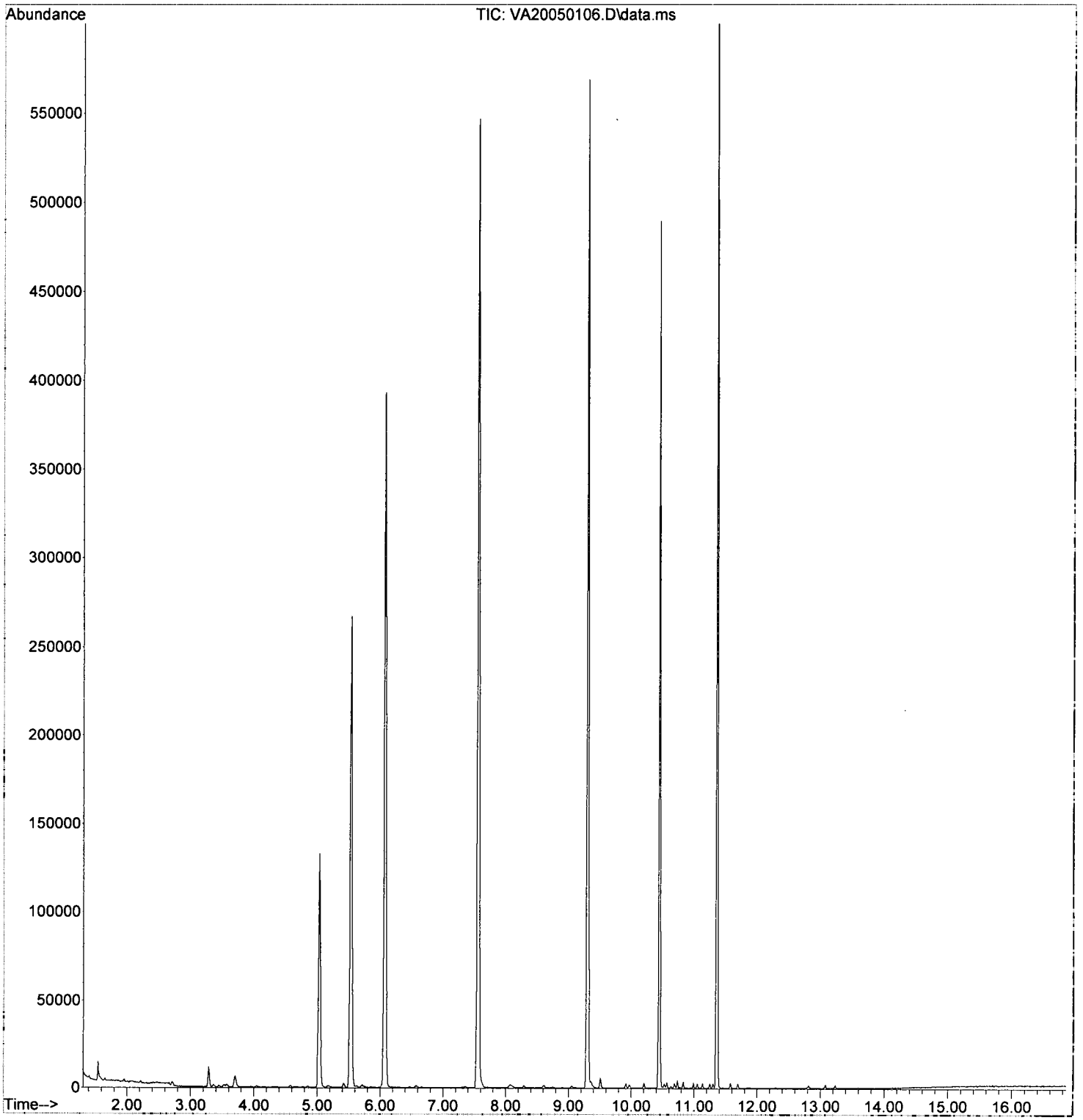
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49) Toluene	7.612	91	2456	0.25	ug/L		85
50) Tetrachloroethene (PCE)	8.056	166	476	0.22	ug/L		82
51) 4-Methyl-2-Pentanone (...	8.081	43	1556	0.41	ug/L		87
52) t-1,3-Dichloropropene	8.117	75	508	0.18	ug/L	#	45
53) 1,1,2-Trichloroethane	8.288	97	424	0.20	ug/L		94
54) Dibromochloromethane	8.494	129	218	0.52	ug/L	#	17
55) 1,3-Dichloropropane	8.616	76	907	0.24	ug/L	#	69
56) 1,2-Dibromoethane (EDB)	8.744	107	379	0.26	ug/L		77
57) 2-Hexanone	9.042	43	1073	0.36	ug/L		80
58) Chlorobenzene	9.316	112	1492	0.24	ug/L	#	50
59) Ethylbenzene	9.358	91	2354	0.23	ug/L		96
60) 1,1,1,2-Tetrachloroethane	9.389	131	297	0.30	ug/L		88
61) m,p-Xylenes (2)	9.510	91	3478	0.46	ug/L		94
62) o-Xylene	9.918	91	1633	0.21	ug/L		93
63) Styrene	9.967	104	1073	0.17	ug/L		92
64) Bromoform	9.973	173	134	0.76	ug/L	#	37
65) Isopropylbenzene	10.204	105	1760	0.19	ug/L		95
68) Bromobenzene	10.526	156	539	0.24	ug/L		85
69) n-Propylbenzene	10.563	91	2460	0.25	ug/L		85
70) 1,1,2,2-Tetrachloroethane	10.630	83	643	0.25	ug/L		95
71) 2-Chlorotoluene	10.691	126	514	0.26	ug/L	#	83
72) 1,3,5-Trimethylbenzene	10.733	105	1396	0.22	ug/L		89
73) 1,2,3-Trichloropropane	10.733	110	205	0.21	ug/L		93
74) t-1,4-Dichloro-2-butene	0.000		0	N.D.			
75) 4-Chlorotoluene	10.824	91	1446	0.24	ug/L		95
76) tert-Butylbenzene	10.989	91	879	0.24	ug/L		81
77) 1,2,4-Trimethylbenzene	11.049	105	1461	0.23	ug/L		84
78) sec-Butylbenzene	11.135	105	1910	0.23	ug/L		94
79) 4-Isopropyltoluene	11.250	119	1432	0.21	ug/L		93
80) 1,3-Dichlorobenzene	11.299	146	1065	0.26	ug/L		93
81) 1,4-Dichlorobenzene	11.372	146	1143	0.27	ug/L	#	78
82) n-Butylbenzene	11.573	91	1541	0.26	ug/L		94
83) 1,2-Dichlorobenzene	11.694	146	965	0.24	ug/L		95
84) 1,2-Dibromo-3-Chloropr...	0.000		0	N.D.			
85) Hexachlorobutadiene	12.783	223	107	0.17	ug/L	#	29
86) 1,2,4-Trichlorobenzene	12.808	180	677	0.26	ug/L		95
87) Naphthalene	13.075	128	1610	0.19	ug/L		89
88) 1,2,3-Trichlorobenzene	13.227	180	639	0.25	ug/L		78

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050106.D
Acq On : 1 May 2020 4:48 pm
Operator : PS/TNL
Sample : 0E01047-CAL2
Misc : 1X 5mL 0.2 PPB VOCRO
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:12 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050107.D
Acq On : 1 May 2020 5:15 pm
Operator : PS/TNL
Sample : 0E01047-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:47:04 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	5.531	99	110065	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	9.297	117	304377	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	11.359	152	144646	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	5.032	111	88062	46.24	ug/L		0.00
39) 1,4-Difluorobenzene (S)	6.073	114	345201	47.38	ug/L		0.00
48) Toluene-d8 (S)	7.557	98	410474	52.70	ug/L		0.00
67) 4-Bromofluorobenzene (S)	10.447	174	111437	48.87	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.403	85	837	0.42	ug/L		84
3) Chloromethane	1.586	50	1356	0.49	ug/L		88
4) Vinyl Chloride	1.653	62	1350	0.51	ug/L		86
5) Bromomethane	1.957	96	1255	0.79	ug/L		97
6) Chloroethane	2.085	64	987	Below Cal			95
7) Trichlorofluoromethane	2.218	101	1572	0.58	ug/L		98
8) Ethanol	2.723	45	2399	31.05	ug/L		83
9) 1,1-Dichloroethene	2.705	61	1357	0.47	ug/L		96
10) Carbon Disulfide	2.717	76	1815	0.37	ug/L		78
11) Freon 113	2.766	101	598	0.32	ug/L	#	77
12) Iodomethane	0.000		0	N.D.			
13) Acrolein	0.000		0	N.D.	d		
14) Methylene Chloride	3.283	84	5461	2.12	ug/L		84
15) Acetone	3.356	43	2578	1.86	ug/L		94
16) t-1,2-Dichloroethene	3.447	61	1394	0.45	ug/L		90
17) n-Hexane	0.000		0	N.D.			
18) Methyl-tert-butyl-ether	3.575	73	3168	0.42	ug/L		97
19) tert-Butanol (TBA)	3.703	59	14693	21.85	ug/L	#	81
20) Diisopropyl ether (DIPE)	3.946	45	866	0.11	ug/L		80
21) 1,1-Dichloroethane	4.043	63	2030	0.48	ug/L		88
22) Acrylonitrile	4.116	53	359	0.24	ug/L		89
23) Vinyl Acetate	0.000		0	N.D.	d		
24) Ethyl-tert-butyl ether...	4.317	59	649	0.09	ug/L	#	38
25) c-1,2-Dichloroethene	4.579	61	1309	0.42	ug/L		92
26) 2,2-Dichloropropane	4.688	77	844	0.34	ug/L		85
27) Bromochloromethane	4.767	49	983	0.48	ug/L		86
28) Chloroform	4.853	83	1385	0.37	ug/L		86
29) Carbon Tetrachloride	4.968	117	742	0.32	ug/L		76
30) Tetrahydrofuran	5.032	42	815	0.58	ug/L	#	71
31) 1,1,1-Trichloroethane	5.051	97	1411	0.41	ug/L		88
33) 1,1-Dichloropropene	5.172	75	1436	0.47	ug/L		98
34) 2-Butanone (MEK)	5.191	43	2004	0.92	ug/L		91
35) Benzene	5.416	78	4486	0.44	ug/L		91
36) tert-Amyl methyl ether...	5.574	73	776	0.11	ug/L		75
37) 1,2-Dichloroethane (EDC)	5.629	62	1502	0.52	ug/L		90
38) iso-Butyl Alcohol	5.714	43	3026	10.09	ug/L		85
40) Trichloroethene (TCE)	6.024	130	1113	0.46	ug/L		92
41) tert-Amyl ethyl ether ...	6.304	59	472	0.09	ug/L	#	39
42) Dibromomethane	6.462	93	562	0.39	ug/L	#	78
43) 1,2-Dichloropropane	6.572	63	1414	0.55	ug/L		67
44) Bromodichloromethane	6.657	83	979	0.40	ug/L		80
46) 2-Chloroethyl Vinyl Ether	7.308	63	602	0.34	ug/L	#	1
47) c-1,3-Dichloropropene	7.356	75	1172	0.36	ug/L		88

05/07/2020

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050107.D
Acq On : 1 May 2020 5:15 pm
Operator : PS/TNL
Sample : 0E01047-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:47:04 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49) Toluene	7.612	91	4791	0.48	ug/L		97
50) Tetrachloroethene (PCE)	8.062	166	943	0.44	ug/L		89
51) 4-Methyl-2-Pentanone (...	8.074	43	3436	0.91	ug/L		94
52) t-1,3-Dichloropropene	8.105	75	938	0.33	ug/L		97
53) 1,1,2-Trichloroethane	8.293	97	925	0.44	ug/L		85
54) Dibromochloromethane	8.494	129	513	0.69	ug/L		97
55) 1,3-Dichloropropane	8.610	76	1982	0.53	ug/L		97
56) 1,2-Dibromoethane (EDB)	8.749	107	790	0.46	ug/L		98
57) 2-Hexanone	9.048	43	2367	0.79	ug/L		85
58) Chlorobenzene	9.315	112	2935	0.48	ug/L	#	67
59) Ethylbenzene	9.358	91	4986	0.49	ug/L		85
60) 1,1,1,2-Tetrachloroethane	9.388	131	712	0.53	ug/L		95
61) m,p-Xylenes (2)	9.510	91	6640	0.88	ug/L		98
62) o-Xylene	9.911	91	3277	0.43	ug/L		88
63) Styrene	9.966	104	2330	0.38	ug/L		92
64) Bromoform	0.000		0	N.D.	d		
65) Isopropylbenzene	10.203	105	3875	0.42	ug/L		98
68) Bromobenzene	10.526	156	1126	0.48	ug/L	#	70
69) n-Propylbenzene	10.568	91	4887	0.48	ug/L		83
70) 1,1,2,2-Tetrachloroethane	10.629	83	1478	0.54	ug/L		71
71) 2-Chlorotoluene	10.684	126	995	0.48	ug/L		94
72) 1,3,5-Trimethylbenzene	10.733	105	2873	0.43	ug/L		96
73) 1,2,3-Trichloropropane	10.733	110	469	0.47	ug/L	#	73
74) t-1,4-Dichloro-2-butene	0.000		0	N.D.			
75) 4-Chlorotoluene	10.830	91	3235	0.51	ug/L		94
76) tert-Butylbenzene	10.988	91	1667	0.44	ug/L		89
77) 1,2,4-Trimethylbenzene	11.049	105	2937	0.44	ug/L		97
78) sec-Butylbenzene	11.134	105	3482	0.40	ug/L		92
79) 4-Isopropyltoluene	11.244	119	2839	0.40	ug/L		92
80) 1,3-Dichlorobenzene	11.298	146	1917	0.45	ug/L		98
81) 1,4-Dichlorobenzene	11.371	146	2118	0.48	ug/L		82
82) n-Butylbenzene	11.578	91	2765	0.45	ug/L		97
83) 1,2-Dichlorobenzene	11.694	146	1929	0.47	ug/L		87
84) 1,2-Dibromo-3-Chloropr...	12.290	157	209	0.27	ug/L	#	34
85) Hexachlorobutadiene	12.795	223	138	0.22	ug/L	#	64
86) 1,2,4-Trichlorobenzene	12.813	180	1147	0.42	ug/L		88
87) Naphthalene	13.075	128	3231	0.37	ug/L		95
88) 1,2,3-Trichlorobenzene	13.227	180	1078	0.40	ug/L		94

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050107.D
Acq On : 1 May 2020 5:15 pm
Operator : PS/TNL
Sample : 0E01047-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:14 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	5.531	99	110065	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	9.297	117	304377	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	11.359	152	144646	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	5.032	111	88062	46.24	ug/L		0.00
39) 1,4-Difluorobenzene (S)	6.073	114	345201	47.38	ug/L		0.00
48) Toluene-d8 (S)	7.557	98	410474	52.70	ug/L		0.00
67) 4-Bromofluorobenzene (S)	10.447	174	111437	48.87	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.403	85	837	0.42	ug/L		84
3) Chloromethane	1.586	50	1356	0.49	ug/L		88
4) Vinyl Chloride	1.653	62	1350	0.51	ug/L		86
5) Bromomethane	1.957	96	1255	0.79	ug/L		97
6) Chloroethane	2.085	64	987	Below Cal			95
7) Trichlorofluoromethane	2.218	101	1572	0.53	ug/L		98
8) Ethanol	2.723	45	2399	31.06	ug/L		83
9) 1,1-Dichloroethene	2.705	61	1357	0.47	ug/L		96
10) Carbon Disulfide	2.717	76	1815	0.37	ug/L		78
11) Freon 113	2.766	101	598	0.32	ug/L	#	77
12) Iodomethane	0.000		0	N.D.			
13) Acrolein	3.064	56	67	0.11	ug/L	#	23
14) Methylene Chloride	3.283	84	5461	2.12	ug/L		84
15) Acetone	3.356	43	2578	1.86	ug/L		94
16) t-1,2-Dichloroethene	3.447	61	1394	0.45	ug/L		90
17) n-Hexane	0.000		0	N.D.			
18) Methyl-tert-butyl-ether	3.575	73	3168	0.42	ug/L		97
19) tert-Butanol (TBA)	3.703	59	14693	21.85	ug/L	#	81
20) Diisopropyl ether (DIPE)	3.946	45	866	0.11	ug/L		80
21) 1,1-Dichloroethane	4.043	63	2030	0.48	ug/L		88
22) Acrylonitrile	4.116	53	359	0.24	ug/L		89
23) Vinyl Acetate	4.329	43	961	0.22	ug/L		74
24) Ethyl-tert-butyl ether...	4.317	59	649	0.09	ug/L	#	38
25) c-1,2-Dichloroethene	4.579	61	1309	0.42	ug/L		92
26) 2,2-Dichloropropane	4.688	77	844	0.34	ug/L		85
27) Bromochloromethane	4.767	49	983	0.48	ug/L		86
28) Chloroform	4.853	83	1385	0.37	ug/L		86
29) Carbon Tetrachloride	4.968	117	742	0.32	ug/L		76
30) Tetrahydrofuran	5.032	42	815	0.58	ug/L	#	71
31) 1,1,1-Trichloroethane	5.051	97	1411	0.41	ug/L		88
33) 1,1-Dichloropropene	5.172	75	1436	0.47	ug/L		98
34) 2-Butanone (MEK)	5.191	43	2004	0.92	ug/L		91
35) Benzene	5.416	78	4486	0.44	ug/L		91
36) tert-Amyl methyl ether...	5.574	73	776	0.11	ug/L		75
37) 1,2-Dichloroethane (EDC)	5.629	62	1502	0.52	ug/L		90
38) iso-Butyl Alcohol	5.714	43	3026	10.09	ug/L		85
40) Trichloroethene (TCE)	6.024	130	1113	0.46	ug/L		92
41) tert-Amyl ethyl ether ...	6.304	59	472	0.09	ug/L	#	39
42) Dibromomethane	6.462	93	562	0.39	ug/L	#	78
43) 1,2-Dichloropropane	6.572	63	1414	0.55	ug/L		67
44) Bromodichloromethane	6.657	83	979	0.40	ug/L		80
46) 2-Chloroethyl Vinyl Ether	7.308	63	602	0.34	ug/L	#	1
47) c-1,3-Dichloropropene	7.356	75	1172	0.36	ug/L		88

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050107.D
Acq On : 1 May 2020 5:15 pm
Operator : PS/TNL
Sample : 0E01047-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:14 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

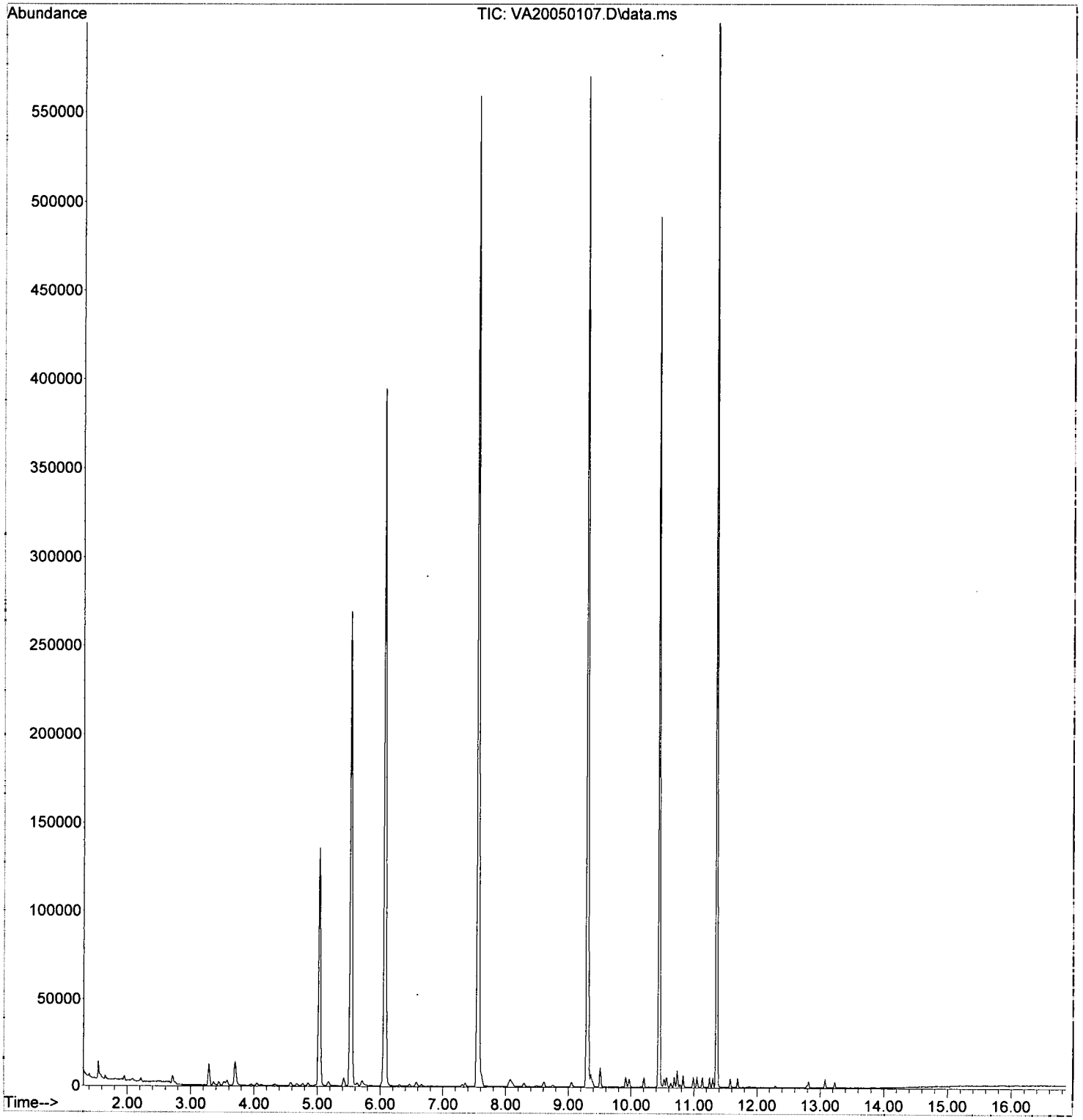
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
49) Toluene	7.612	91	4791	0.48 ug/L	97
50) Tetrachloroethene (PCE)	8.062	166	943	0.44 ug/L	89
51) 4-Methyl-2-Pentanone (...	8.074	43	3436	0.91 ug/L	94
52) t-1,3-Dichloropropene	8.105	75	938	0.33 ug/L	97
53) 1,1,2-Trichloroethane	8.293	97	925	0.44 ug/L	85
54) Dibromochloromethane	8.494	129	513	0.69 ug/L	97
55) 1,3-Dichloropropane	8.610	76	1982	0.53 ug/L	97
56) 1,2-Dibromoethane (EDB)	8.749	107	790	0.46 ug/L	98
57) 2-Hexanone	9.048	43	2367	0.79 ug/L	85
58) Chlorobenzene	9.315	112	2935	0.48 ug/L #	67
59) Ethylbenzene	9.358	91	4986	0.49 ug/L	85
60) 1,1,1,2-Tetrachloroethane	9.388	131	712	0.53 ug/L	95
61) m,p-Xylenes (2)	9.510	91	6640	0.88 ug/L	98
62) o-Xylene	9.911	91	3277	0.43 ug/L	88
63) Styrene	9.966	104	2330	0.38 ug/L	92
64) Bromoform	9.972	173	309	0.90 ug/L #	37
65) Isopropylbenzene	10.203	105	3875	0.42 ug/L	98
68) Bromobenzene	10.526	156	1126	0.48 ug/L #	70
69) n-Propylbenzene	10.568	91	4887	0.48 ug/L	83
70) 1,1,2,2-Tetrachloroethane	10.629	83	1478	0.54 ug/L	71
71) 2-Chlorotoluene	10.684	126	995	0.48 ug/L	94
72) 1,3,5-Trimethylbenzene	10.733	105	2873	0.43 ug/L	96
73) 1,2,3-Trichloropropane	10.733	110	469	0.47 ug/L #	73
74) t-1,4-Dichloro-2-butene	0.000		0	N.D.	
75) 4-Chlorotoluene	10.830	91	3235	0.51 ug/L	94
76) tert-Butylbenzene	10.988	91	1667	0.44 ug/L	89
77) 1,2,4-Trimethylbenzene	11.049	105	2937	0.44 ug/L	97
78) sec-Butylbenzene	11.134	105	3482	0.40 ug/L	92
79) 4-Isopropyltoluene	11.244	119	2839	0.40 ug/L	92
80) 1,3-Dichlorobenzene	11.298	146	1917	0.45 ug/L	98
81) 1,4-Dichlorobenzene	11.371	146	2118	0.48 ug/L	82
82) n-Butylbenzene	11.578	91	2765	0.45 ug/L	97
83) 1,2-Dichlorobenzene	11.694	146	1929	0.47 ug/L	87
84) 1,2-Dibromo-3-Chloropr...	12.290	157	209	0.27 ug/L #	34
85) Hexachlorobutadiene	12.795	223	138	0.22 ug/L #	64
86) 1,2,4-Trichlorobenzene	12.813	180	1147	0.42 ug/L	88
87) Naphthalene	13.075	128	3231	0.37 ug/L	95
88) 1,2,3-Trichlorobenzene	13.227	180	1078	0.40 ug/L	94

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050107.D
Acq On : 1 May 2020 5:15 pm
Operator : PS/TNL
Sample : 0E01047-CAL3
Misc : 1X 5mL 0.4 PPB VOCRO
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:14 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050108.D
Acq On : 1 May 2020 5:43 pm
Operator : PS/TNL
Sample : 0E01047-CAL4
Misc : 1X 5mL 1 PPB VOCRO
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:17 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	5.531	99	109230	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	9.297	117	315921	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	11.359	152	147392	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	5.032	111	90243	47.74	ug/L		0.00
39) 1,4-Difluorobenzene (S)	6.073	114	347946	48.12	ug/L		0.00
48) Toluene-d8 (S)	7.557	98	418241	51.73	ug/L		0.00
67) 4-Bromofluorobenzene (S)	10.441	174	115482	49.70	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.404	85	1768	0.90	ug/L		93
3) Chloromethane	1.581	50	3170	1.16	ug/L		96
4) Vinyl Chloride	1.654	62	3070	1.18	ug/L		98
5) Bromomethane	1.952	96	2895	1.84	ug/L		93
6) Chloroethane	2.079	64	1977	0.75	ug/L		97
7) Trichlorofluoromethane	2.219	101	3399	1.15	ug/L		94
8) Ethanol	2.718	45	5322	69.40	ug/L		89
9) 1,1-Dichloroethene	2.706	61	3278	1.15	ug/L		94
10) Carbon Disulfide	2.718	76	4112	0.83	ug/L		96
11) Freon 113	2.761	101	1625	0.89	ug/L		87
12) Iodomethane	0.000		0	N.D.			
13) Acrolein	3.059	56	430	0.74	ug/L		86
14) Methylene Chloride	3.284	84	7181	2.81	ug/L		90
15) Acetone	3.357	43	4069	2.97	ug/L		94
16) t-1,2-Dichloroethene	3.442	61	3117	1.02	ug/L		94
17) n-Hexane	3.521	86	135	0.29	ug/L	#	77
18) Methyl-tert-butyl-ether	3.570	73	7150	0.96	ug/L		97
19) tert-Butanol (TBA)	3.698	59	33415	50.06	ug/L	#	79
20) Diisopropyl ether (DIPE)	3.959	45	2171	0.28	ug/L		96
21) 1,1-Dichloroethane	4.050	63	4372	1.04	ug/L		99
22) Acrylonitrile	4.111	53	1398	0.93	ug/L		84
23) Vinyl Acetate	4.330	43	2776	0.63	ug/L		73
24) Ethyl-tert-butyl ether...	4.300	59	1734	0.24	ug/L		91
25) c-1,2-Dichloroethene	4.574	61	3307	1.07	ug/L		91
26) 2,2-Dichloropropane	4.671	77	2019	0.81	ug/L		73
27) Bromochloromethane	4.774	49	2266	1.12	ug/L		78
28) Chloroform	4.853	83	3801	1.03	ug/L		88
29) Carbon Tetrachloride	4.963	117	1583	0.70	ug/L		92
30) Tetrahydrofuran	5.020	42	1609	1.15	ug/L		86
31) 1,1,1-Trichloroethane	5.045	97	2918	0.86	ug/L		85
33) 1,1-Dichloropropene	5.172	75	3083	1.01	ug/L		92
34) 2-Butanone (MEK)	5.185	43	4774	2.20	ug/L		84
35) Benzene	5.422	78	10627	1.04	ug/L		96
36) tert-Amyl methyl ether...	5.562	73	1891	0.27	ug/L		79
37) 1,2-Dichloroethane (EDC)	5.635	62	3487	1.22	ug/L		94
38) iso-Butyl Alcohol	5.708	43	6638	22.31	ug/L		96
40) Trichloroethene (TCE)	6.030	130	2360	0.98	ug/L		91
41) tert-Amyl ethyl ether ...	6.298	59	1171	0.23	ug/L		93
42) Dibromomethane	6.468	93	1433	1.01	ug/L		89
43) 1,2-Dichloropropane	6.578	63	2758	1.08	ug/L		93
44) Bromodichloromethane	6.657	83	2304	0.95	ug/L		94
46) 2-Chloroethyl Vinyl Ether	7.302	63	1450	0.79	ug/L	#	1
47) c-1,3-Dichloropropene	7.356	75	2750	0.82	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050108.D
Acq On : 1 May 2020 5:43 pm
Operator : PS/TNL
Sample : 0E01047-CAL4
Misc : 1X 5mL 1 PPB VOCRO
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:17 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49) Toluene	7.618	91	10891	1.06	ug/L		96
50) Tetrachloroethene (PCE)	8.050	166	2098	0.94	ug/L		97
51) 4-Methyl-2-Pentanone (...	8.074	43	8162	2.09	ug/L		87
52) t-1,3-Dichloropropene	8.111	75	2242	0.75	ug/L		94
53) 1,1,2-Trichloroethane	8.287	97	2281	1.04	ug/L		95
54) Dibromochloromethane	8.488	129	1338	1.13	ug/L		93
55) 1,3-Dichloropropane	8.603	76	4406	1.14	ug/L		92
56) 1,2-Dibromoethane (EDB)	8.743	107	1984	1.00	ug/L		99
57) 2-Hexanone	9.041	43	5121	1.66	ug/L		92
58) Chlorobenzene	9.321	112	6559	1.03	ug/L		92
59) Ethylbenzene	9.358	91	10746	1.01	ug/L		98
60) 1,1,1,2-Tetrachloroethane	9.394	131	1635	1.01	ug/L		90
61) m,p-Xylenes (2)	9.504	91	15156	1.94	ug/L		96
62) o-Xylene	9.911	91	7787	0.99	ug/L		96
63) Styrene	9.966	104	5321	0.84	ug/L		97
64) Bromoform	9.972	173	752	1.22	ug/L		89
65) Isopropylbenzene	10.203	105	8668	0.90	ug/L		92
68) Bromobenzene	10.526	156	2425	1.01	ug/L	#	85
69) n-Propylbenzene	10.562	91	10717	1.03	ug/L		95
70) 1,1,2,2-Tetrachloroethane	10.629	83	3132	1.13	ug/L		95
71) 2-Chlorotoluene	10.684	126	2120	1.00	ug/L	#	84
72) 1,3,5-Trimethylbenzene	10.733	105	6636	0.97	ug/L		90
73) 1,2,3-Trichloropropane	10.733	110	1077	1.06	ug/L		89
74) t-1,4-Dichloro-2-butene	10.775	88	189	0.48	ug/L	#	43
75) 4-Chlorotoluene	10.824	91	6952	1.08	ug/L		92
76) tert-Butylbenzene	10.988	91	3939	1.01	ug/L		85
77) 1,2,4-Trimethylbenzene	11.049	105	6878	1.01	ug/L		95
78) sec-Butylbenzene	11.128	105	8453	0.96	ug/L		96
79) 4-Isopropyltoluene	11.250	119	6685	0.92	ug/L		96
80) 1,3-Dichlorobenzene	11.298	146	4420	1.03	ug/L		94
81) 1,4-Dichlorobenzene	11.371	146	4667	1.05	ug/L		93
82) n-Butylbenzene	11.572	91	5999	0.95	ug/L		93
83) 1,2-Dichlorobenzene	11.694	146	4175	0.99	ug/L		100
84) 1,2-Dibromo-3-Chloropr...	12.296	157	558	0.70	ug/L		77
85) Hexachlorobutadiene	12.789	223	611	0.94	ug/L	#	77
86) 1,2,4-Trichlorobenzene	12.813	180	2653	0.96	ug/L		93
87) Naphthalene	13.075	128	7373	0.82	ug/L		97
88) 1,2,3-Trichlorobenzene	13.227	180	2390	0.86	ug/L		93

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050108.D
Acq On : 1 May 2020 5:43 pm
Operator : PS/TNL
Sample : 0E01047-CAL4
Misc : 1X 5mL 1 PPB VOCRO
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:17 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	5.531	99	109230	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	9.297	117	315921	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	11.359	152	147392	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	5.032	111	90243	47.74	ug/L		0.00
39) 1,4-Difluorobenzene (S)	6.073	114	347946	48.12	ug/L		0.00
48) Toluene-d8 (S)	7.557	98	418241	51.73	ug/L		0.00
67) 4-Bromofluorobenzene (S)	10.441	174	115482	49.70	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.404	85	1768	0.90	ug/L		93
3) Chloromethane	1.581	50	3170	1.16	ug/L		96
4) Vinyl Chloride	1.654	62	3070	1.18	ug/L		98
5) Bromomethane	1.952	96	2895	1.84	ug/L		93
6) Chloroethane	2.079	64	1977	0.75	ug/L		97
7) Trichlorofluoromethane	2.219	101	3399	1.15	ug/L		94
8) Ethanol	2.718	45	5322	69.40	ug/L		89
9) 1,1-Dichloroethene	2.706	61	3278	1.15	ug/L		94
10) Carbon Disulfide	2.718	76	4112	0.83	ug/L		96
11) Freon 113	2.761	101	1625	0.89	ug/L		87
12) Iodomethane	0.000		0	N.D.			
13) Acrolein	3.059	56	430	0.74	ug/L		86
14) Methylene Chloride	3.284	84	7181	2.81	ug/L		90
15) Acetone	3.357	43	4069	2.97	ug/L		94
16) t-1,2-Dichloroethene	3.442	61	3117	1.02	ug/L		94
17) n-Hexane	3.521	86	135	0.29	ug/L	#	77
18) Methyl-tert-butyl-ether	3.570	73	7150	0.96	ug/L		97
19) tert-Butanol (TBA)	3.698	59	33415	50.06	ug/L	#	79
20) Diisopropyl ether (DIPE)	3.959	45	2171	0.28	ug/L		96
21) 1,1-Dichloroethane	4.050	63	4372	1.04	ug/L		99
22) Acrylonitrile	4.111	53	1398	0.93	ug/L		84
23) Vinyl Acetate	4.330	43	2776	0.63	ug/L		73
24) Ethyl-tert-butyl ether...	4.300	59	1734	0.24	ug/L		91
25) c-1,2-Dichloroethene	4.574	61	3307	1.07	ug/L		91
26) 2,2-Dichloropropane	4.671	77	2019	0.81	ug/L		73
27) Bromochloromethane	4.774	49	2266	1.12	ug/L		78
28) Chloroform	4.853	83	3801	1.03	ug/L		88
29) Carbon Tetrachloride	4.963	117	1583	0.70	ug/L		92
30) Tetrahydrofuran	5.020	42	1609	1.15	ug/L		86
31) 1,1,1-Trichloroethane	5.045	97	2918	0.86	ug/L		85
33) 1,1-Dichloropropene	5.172	75	3083	1.01	ug/L		92
34) 2-Butanone (MEK)	5.185	43	4774	2.20	ug/L		84
35) Benzene	5.422	78	10627	1.04	ug/L		96
36) tert-Amyl methyl ether...	5.562	73	1891	0.27	ug/L		79
37) 1,2-Dichloroethane (EDC)	5.635	62	3487	1.22	ug/L		94
38) iso-Butyl Alcohol	5.708	43	6638	22.31	ug/L		96
40) Trichloroethene (TCE)	6.030	130	2360	0.98	ug/L		91
41) tert-Amyl ethyl ether ...	6.298	59	1171	0.23	ug/L		93
42) Dibromomethane	6.468	93	1433	1.01	ug/L		89
43) 1,2-Dichloropropane	6.578	63	2758	1.08	ug/L		93
44) Bromodichloromethane	6.657	83	2304	0.95	ug/L		94
46) 2-Chloroethyl Vinyl Ether	7.302	63	1450	0.79	ug/L	#	1
47) c-1,3-Dichloropropene	7.356	75	2750	0.82	ug/L		94

5/2/2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050108.D
Acq On : 1 May 2020 5:43 pm
Operator : PS/TNL
Sample : 0E01047-CAL4
Misc : 1X 5mL 1 PPB VOCRO
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:17 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

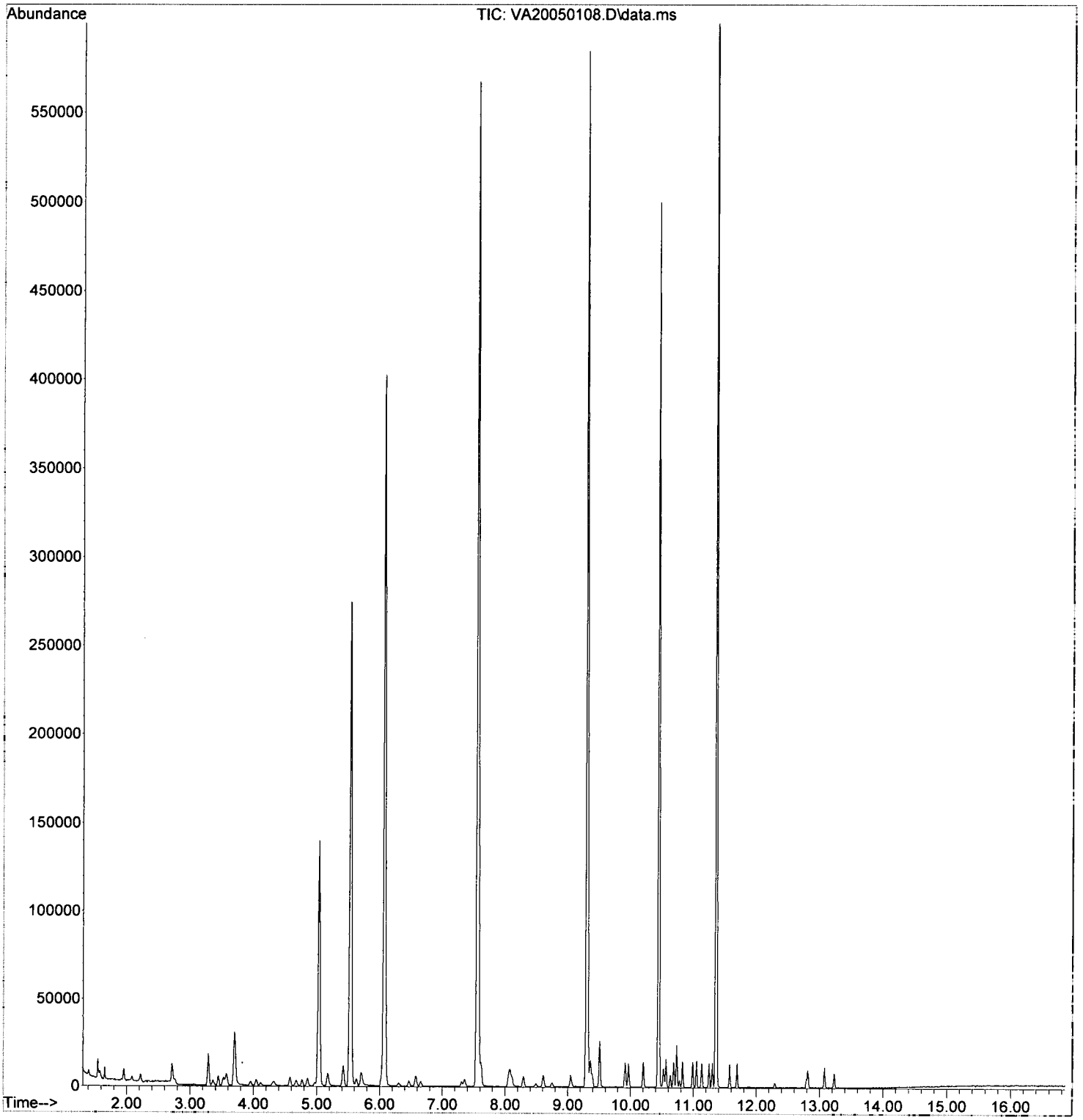
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49) Toluene	7.618	91	10891	1.06	ug/L		96
50) Tetrachloroethene (PCE)	8.050	166	2098	0.94	ug/L		97
51) 4-Methyl-2-Pentanone (...	8.074	43	8162	2.09	ug/L		87
52) t-1,3-Dichloropropene	8.111	75	2242	0.75	ug/L		94
53) 1,1,2-Trichloroethane	8.287	97	2281	1.04	ug/L		95
54) Dibromochloromethane	8.488	129	1338	1.13	ug/L		93
55) 1,3-Dichloropropane	8.603	76	4406	1.14	ug/L		92
56) 1,2-Dibromoethane (EDB)	8.743	107	1984	1.00	ug/L		99
57) 2-Hexanone	9.041	43	5121	1.66	ug/L		92
58) Chlorobenzene	9.321	112	6559	1.03	ug/L		92
59) Ethylbenzene	9.358	91	10746	1.01	ug/L		98
60) 1,1,1,2-Tetrachloroethane	9.394	131	1635	1.01	ug/L		90
61) m,p-Xylenes (2)	9.504	91	15156	1.94	ug/L		96
62) o-Xylene	9.911	91	7787	0.99	ug/L		96
63) Styrene	9.966	104	5321	0.84	ug/L		97
64) Bromoform	9.972	173	752	1.22	ug/L		89
65) Isopropylbenzene	10.203	105	8668	0.90	ug/L		92
68) Bromobenzene	10.526	156	2425	1.01	ug/L	#	85
69) n-Propylbenzene	10.562	91	10717	1.03	ug/L		95
70) 1,1,2,2-Tetrachloroethane	10.629	83	3132	1.13	ug/L		95
71) 2-Chlorotoluene	10.684	126	2120	1.00	ug/L	#	84
72) 1,3,5-Trimethylbenzene	10.733	105	6636	0.97	ug/L		90
73) 1,2,3-Trichloropropane	10.733	110	1077	1.06	ug/L		89
74) t-1,4-Dichloro-2-butene	10.775	88	189	0.48	ug/L	#	43
75) 4-Chlorotoluene	10.824	91	6952	1.08	ug/L		92
76) tert-Butylbenzene	10.988	91	3939	1.01	ug/L		85
77) 1,2,4-Trimethylbenzene	11.049	105	6878	1.01	ug/L		95
78) sec-Butylbenzene	11.128	105	8453	0.96	ug/L		96
79) 4-Isopropyltoluene	11.250	119	6685	0.92	ug/L		96
80) 1,3-Dichlorobenzene	11.298	146	4420	1.03	ug/L		94
81) 1,4-Dichlorobenzene	11.371	146	4667	1.05	ug/L		93
82) n-Butylbenzene	11.572	91	5999	0.95	ug/L		93
83) 1,2-Dichlorobenzene	11.694	146	4175	0.99	ug/L		100
84) 1,2-Dibromo-3-Chloropr...	12.296	157	558	0.70	ug/L		77
85) Hexachlorobutadiene	12.789	223	611	0.94	ug/L	#	77
86) 1,2,4-Trichlorobenzene	12.813	180	2653	0.96	ug/L		93
87) Naphthalene	13.075	128	7373	0.82	ug/L		97
88) 1,2,3-Trichlorobenzene	13.227	180	2390	0.86	ug/L		93

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050108.D
Acq On : 1 May 2020 5:43 pm
Operator : PS/TNL
Sample : 0E01047-CAL4
Misc : 1X 5mL 1 PPB VOCRO
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:17 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050109.D
Acq On : 1 May 2020 6:10 pm
Operator : PS/TNL
Sample : 0E01047-CAL5
Misc : 1X 5mL 2 PPB VOCRO
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:19 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

05/02/2020

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	5.531	99	106220	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	9.296	117	303545	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	11.359	152	142814	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	5.032	111	86689	47.16	ug/L		0.00
39) 1,4-Difluorobenzene (S)	6.072	114	335203	47.68	ug/L		0.00
48) Toluene-d8 (S)	7.556	98	400882	51.61	ug/L		0.00
67) 4-Bromofluorobenzene (S)	10.446	174	112835	50.12	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.402	85	3436	1.80	ug/L		95
3) Chloromethane	1.578	50	5936	2.23	ug/L		93
4) Vinyl Chloride	1.651	62	5710	2.25	ug/L		93
5) Bromomethane	1.955	96	5215	3.40	ug/L		96
6) Chloroethane	2.077	64	3650	2.24	ug/L		97
7) Trichlorofluoromethane	2.217	101	6394	2.22	ug/L		97
8) Ethanol	2.722	45	10012	134.26	ug/L		89
9) 1,1-Dichloroethene	2.703	61	6096	2.20	ug/L		94
10) Carbon Disulfide	2.722	76	7855	1.64	ug/L		100
11) Freon 113	2.758	101	2860	1.60	ug/L		88
12) Iodomethane	0.000		0	N.D.			
13) Acrolein	3.056	56	957	1.70	ug/L		89
14) Methylene Chloride	3.287	84	9465	3.81	ug/L		81
15) Acetone	3.360	43	6935	5.20	ug/L		87
16) t-1,2-Dichloroethene	3.440	61	5955	2.01	ug/L		95
17) n-Hexane	3.519	86	607	1.34	ug/L		98
18) Methyl-tert-butyl-ether	3.573	73	13505	1.86	ug/L		95
19) tert-Butanol (TBA)	3.695	59	67336	103.74	ug/L	#	89
20) Diisopropyl ether (DIPE)	3.951	45	4034	0.53	ug/L		84
21) 1,1-Dichloroethane	4.048	63	8521	2.09	ug/L		99
22) Acrylonitrile	4.109	53	2959	2.02	ug/L		98
23) Vinyl Acetate	4.322	43	6840	1.59	ug/L		94
24) Ethyl-tert-butyl ether...	4.303	59	3348	0.48	ug/L		92
25) c-1,2-Dichloroethene	4.577	61	6304	2.10	ug/L		95
26) 2,2-Dichloropropane	4.668	77	3951	1.64	ug/L		74
27) Bromochloromethane	4.772	49	4519	2.29	ug/L		70
28) Chloroform	4.857	83	7321	2.04	ug/L		97
29) Carbon Tetrachloride	4.973	117	3366	1.52	ug/L		89
30) Tetrahydrofuran	5.026	42	3063	2.24	ug/L		87
31) 1,1,1-Trichloroethane	5.044	97	6032	1.83	ug/L		94
33) 1,1-Dichloropropene	5.172	75	5494	1.85	ug/L		92
34) 2-Butanone (MEK)	5.178	43	9403	4.45	ug/L		97
35) Benzene	5.415	78	19740	1.99	ug/L		97
36) tert-Amyl methyl ether...	5.561	73	3398	0.50	ug/L		87
37) 1,2-Dichloroethane (EDC)	5.628	62	6353	2.29	ug/L		95
38) iso-Butyl Alcohol	5.701	43	13052	45.10	ug/L		96
40) Trichloroethene (TCE)	6.030	130	4532	1.93	ug/L		92
41) tert-Amyl ethyl ether ...	6.297	59	2374	0.47	ug/L		82
42) Dibromomethane	6.468	93	2744	2.00	ug/L		88
43) 1,2-Dichloropropane	6.577	63	5543	2.23	ug/L		89
44) Bromodichloromethane	6.656	83	4415	1.86	ug/L		92
46) 2-Chloroethyl Vinyl Ether	7.307	63	3111	1.76	ug/L	#	1
47) c-1,3-Dichloropropene	7.356	75	5549	1.73	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050109.D
Acq On : 1 May 2020 6:10 pm
Operator : PS/TNL
Sample : 0E01047-CAL5
Misc : 1X 5mL 2 PPB VOCRO
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:19 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49) Toluene	7.611	91	20476	2.07	ug/L		99
50) Tetrachloroethene (PCE)	8.055	166	4010	1.88	ug/L		93
51) 4-Methyl-2-Pentanone (...	8.080	43	16070	4.29	ug/L		97
52) t-1,3-Dichloropropene	8.110	75	4601	1.61	ug/L		96
53) 1,1,2-Trichloroethane	8.287	97	4349	2.06	ug/L		87
54) Dibromochloromethane	8.487	129	2706	1.94	ug/L		93
55) 1,3-Dichloropropane	8.603	76	8274	2.23	ug/L		91
56) 1,2-Dibromoethane (EDB)	8.743	107	3976	1.99	ug/L		90
57) 2-Hexanone	9.041	43	11381	3.83	ug/L		93
58) Chlorobenzene	9.315	112	12716	2.07	ug/L		95
59) Ethylbenzene	9.357	91	20536	2.01	ug/L		96
60) 1,1,1,2-Tetrachloroethane	9.388	131	3228	1.92	ug/L		94
61) m,p-Xylenes (2)	9.503	91	29676	3.96	ug/L		99
62) o-Xylene	9.911	91	15108	2.00	ug/L		97
63) Styrene	9.966	104	10923	1.79	ug/L		98
64) Bromoform	9.972	173	1628	1.91	ug/L		93
65) Isopropylbenzene	10.203	105	17325	1.87	ug/L		98
68) Bromobenzene	10.525	156	4603	1.98	ug/L	#	74
69) n-Propylbenzene	10.562	91	20386	2.03	ug/L		96
70) 1,1,2,2-Tetrachloroethane	10.635	83	6340	2.35	ug/L		95
71) 2-Chlorotoluene	10.689	126	4417	2.16	ug/L		95
72) 1,3,5-Trimethylbenzene	10.732	105	13431	2.02	ug/L		92
73) 1,2,3-Trichloropropane	10.732	110	2177	2.20	ug/L	#	82
74) t-1,4-Dichloro-2-butene	10.775	88	500	1.30	ug/L	#	56
75) 4-Chlorotoluene	10.823	91	13328	2.14	ug/L		95
76) tert-Butylbenzene	10.988	91	7569	2.01	ug/L		93
77) 1,2,4-Trimethylbenzene	11.048	105	13825	2.09	ug/L		94
78) sec-Butylbenzene	11.134	105	16518	1.95	ug/L		96
79) 4-Isopropyltoluene	11.249	119	13270	1.89	ug/L		99
80) 1,3-Dichlorobenzene	11.298	146	8568	2.06	ug/L		99
81) 1,4-Dichlorobenzene	11.371	146	9024	2.09	ug/L		94
82) n-Butylbenzene	11.572	91	12084	1.98	ug/L		96
83) 1,2-Dichlorobenzene	11.693	146	8655	2.11	ug/L		94
84) 1,2-Dibromo-3-Chloropr...	12.289	157	1026	1.33	ug/L	#	38
85) Hexachlorobutadiene	12.788	223	1131	1.79	ug/L	#	82
86) 1,2,4-Trichlorobenzene	12.813	180	5124	1.91	ug/L		93
87) Naphthalene	13.074	128	15421	1.78	ug/L		98
88) 1,2,3-Trichlorobenzene	13.226	180	4968	1.86	ug/L		92

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050109.D
Acq On : 1 May 2020 6:10 pm
Operator : PS/TNL
Sample : 0E01047-CAL5
Misc : 1X 5mL 2 PPB VOCRO
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:19 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	5.531	99	106220	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	9.296	117	303545	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	11.359	152	142814	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	5.032	111	86689	47.16	ug/L		0.00
39) 1,4-Difluorobenzene (S)	6.072	114	335203	47.68	ug/L		0.00
48) Toluene-d8 (S)	7.556	98	400882	51.61	ug/L		0.00
67) 4-Bromofluorobenzene (S)	10.446	174	112835	50.12	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.402	85	3436	1.80	ug/L		95
3) Chloromethane	1.578	50	5936	2.23	ug/L		93
4) Vinyl Chloride	1.651	62	5710	2.25	ug/L		93
5) Bromomethane	1.955	96	5215	3.40	ug/L		96
6) Chloroethane	2.077	64	3650	2.24	ug/L		97
7) Trichlorofluoromethane	2.217	101	6394	2.22	ug/L		97
8) Ethanol	2.722	45	10012	134.26	ug/L		89
9) 1,1-Dichloroethene	2.703	61	6096	2.20	ug/L		94
10) Carbon Disulfide	2.722	76	7855	1.64	ug/L		100
11) Freon 113	2.758	101	2860	1.60	ug/L		88
12) Iodomethane	0.000		0	N.D.			
13) Acrolein	3.056	56	957	1.70	ug/L		89
14) Methylene Chloride	3.287	84	9465	3.81	ug/L		81
15) Acetone	3.360	43	6935	5.20	ug/L		87
16) t-1,2-Dichloroethene	3.440	61	5955	2.01	ug/L		95
17) n-Hexane	3.519	86	607	1.34	ug/L		98
18) Methyl-tert-butyl-ether	3.573	73	13505	1.86	ug/L		95
19) tert-Butanol (TBA)	3.695	59	67336	103.74	ug/L	#	89
20) Diisopropyl ether (DIPE)	3.951	45	4034	0.53	ug/L		84
21) 1,1-Dichloroethane	4.048	63	8521	2.09	ug/L		99
22) Acrylonitrile	4.109	53	2959	2.02	ug/L		98
23) Vinyl Acetate	4.322	43	6840	1.59	ug/L		94
24) Ethyl-tert-butyl ether...	4.303	59	3348	0.48	ug/L		92
25) c-1,2-Dichloroethene	4.577	61	6304	2.10	ug/L		95
26) 2,2-Dichloropropane	4.668	77	3951	1.64	ug/L		74
27) Bromochloromethane	4.772	49	4519	2.29	ug/L		70
28) Chloroform	4.857	83	7321	2.04	ug/L		97
29) Carbon Tetrachloride	4.973	117	3366	1.52	ug/L		89
30) Tetrahydrofuran	5.026	42	3063	2.24	ug/L		87
31) 1,1,1-Trichloroethane	5.044	97	6032	1.83	ug/L		94
33) 1,1-Dichloropropene	5.172	75	5494	1.85	ug/L		92
34) 2-Butanone (MEK)	5.178	43	9403	4.45	ug/L		97
35) Benzene	5.415	78	19740	1.99	ug/L		97
36) tert-Amyl methyl ether...	5.561	73	3398	0.50	ug/L		87
37) 1,2-Dichloroethane (EDC)	5.628	62	6353	2.29	ug/L		95
38) iso-Butyl Alcohol	5.701	43	13052	45.10	ug/L		96
40) Trichloroethene (TCE)	6.030	130	4532	1.93	ug/L		92
41) tert-Amyl ethyl ether ...	6.297	59	2374	0.47	ug/L		82
42) Dibromomethane	6.468	93	2744	2.00	ug/L		88
43) 1,2-Dichloropropane	6.577	63	5543	2.23	ug/L		89
44) Bromodichloromethane	6.656	83	4415	1.86	ug/L		92
46) 2-Chloroethyl Vinyl Ether	7.307	63	3111	1.76	ug/L	#	1
47) c-1,3-Dichloropropene	7.356	75	5549	1.73	ug/L		95

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050109.D
Acq On : 1 May 2020 6:10 pm
Operator : PS/TNL
Sample : 0E01047-CAL5
Misc : 1X 5mL 2 PPB VOCRO
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:19 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

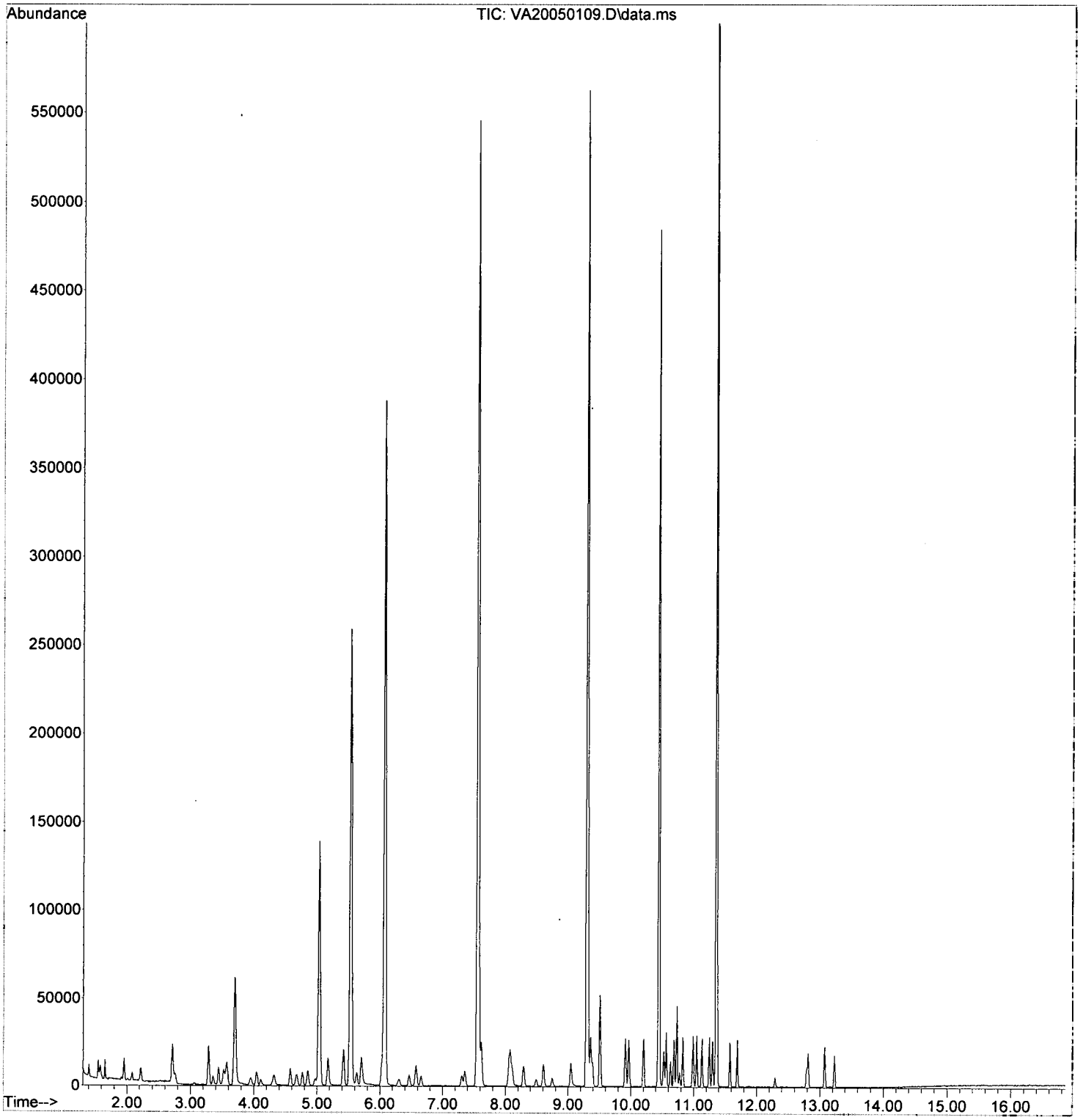
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49) Toluene	7.611	91	20476	2.07	ug/L		99
50) Tetrachloroethene (PCE)	8.055	166	4010	1.88	ug/L		93
51) 4-Methyl-2-Pentanone (...	8.080	43	16070	4.29	ug/L		97
52) t-1,3-Dichloropropene	8.110	75	4601	1.61	ug/L		96
53) 1,1,2-Trichloroethane	8.287	97	4349	2.06	ug/L		87
54) Dibromochloromethane	8.487	129	2706	1.94	ug/L		93
55) 1,3-Dichloropropane	8.603	76	8274	2.23	ug/L		91
56) 1,2-Dibromoethane (EDB)	8.743	107	3976	1.99	ug/L		90
57) 2-Hexanone	9.041	43	11381	3.83	ug/L		93
58) Chlorobenzene	9.315	112	12716	2.07	ug/L		95
59) Ethylbenzene	9.357	91	20536	2.01	ug/L		96
60) 1,1,1,2-Tetrachloroethane	9.388	131	3228	1.92	ug/L		94
61) m,p-Xylenes (2)	9.503	91	29676	3.96	ug/L		99
62) o-Xylene	9.911	91	15108	2.00	ug/L		97
63) Styrene	9.966	104	10923	1.79	ug/L		98
64) Bromoform	9.972	173	1628	1.91	ug/L		93
65) Isopropylbenzene	10.203	105	17325	1.87	ug/L		98
68) Bromobenzene	10.525	156	4603	1.98	ug/L	#	74
69) n-Propylbenzene	10.562	91	20386	2.03	ug/L		96
70) 1,1,2,2-Tetrachloroethane	10.635	83	6340	2.35	ug/L		95
71) 2-Chlorotoluene	10.689	126	4417	2.16	ug/L		95
72) 1,3,5-Trimethylbenzene	10.732	105	13431	2.02	ug/L		92
73) 1,2,3-Trichloropropane	10.732	110	2177	2.20	ug/L	#	82
74) t-1,4-Dichloro-2-butene	10.775	88	500	1.30	ug/L	#	56
75) 4-Chlorotoluene	10.823	91	13328	2.14	ug/L		95
76) tert-Butylbenzene	10.988	91	7569	2.01	ug/L		93
77) 1,2,4-Trimethylbenzene	11.048	105	13825	2.09	ug/L		94
78) sec-Butylbenzene	11.134	105	16518	1.95	ug/L		96
79) 4-Isopropyltoluene	11.249	119	13270	1.89	ug/L		99
80) 1,3-Dichlorobenzene	11.298	146	8568	2.06	ug/L		99
81) 1,4-Dichlorobenzene	11.371	146	9024	2.09	ug/L		94
82) n-Butylbenzene	11.572	91	12084	1.98	ug/L		96
83) 1,2-Dichlorobenzene	11.693	146	8655	2.11	ug/L		94
84) 1,2-Dibromo-3-Chloropr...	12.289	157	1026	1.33	ug/L	#	38
85) Hexachlorobutadiene	12.788	223	1131	1.79	ug/L	#	82
86) 1,2,4-Trichlorobenzene	12.813	180	5124	1.91	ug/L		93
87) Naphthalene	13.074	128	15421	1.78	ug/L		98
88) 1,2,3-Trichlorobenzene	13.226	180	4968	1.86	ug/L		92

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050109.D
Acq On : 1 May 2020 6:10 pm
Operator : PS/TNL
Sample : 0E01047-CAL5
Misc : 1X 5mL 2 PPB VOCRO
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:19 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050110.D
Acq On : 1 May 2020 6:37 pm
Operator : PS/TNL
Sample : 0E01047-CAL6
Misc : 1X 5mL 5 PPB VOCRO
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:21 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	5.531	99	110671	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	9.296	117	308470	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	11.359	152	150765	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	5.032	111	92158	48.12	ug/L		0.00
39) 1,4-Difluorobenzene (S)	6.072	114	346910	47.36	ug/L		0.00
48) Toluene-d8 (S)	7.556	98	411872	52.17	ug/L		0.00
67) 4-Bromofluorobenzene (S)	10.446	174	114040	47.98	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.401	85	10726	5.39	ug/L		98
3) Chloromethane	1.578	50	14279	5.14	ug/L		98
4) Vinyl Chloride	1.651	62	16226	6.15	ug/L		93
5) Bromomethane	1.955	96	12852	8.05	ug/L		98
6) Chloroethane	2.077	64	9280	6.88	ug/L		95
7) Trichlorofluoromethane	2.216	101	19101	6.37	ug/L		96
8) Ethanol	2.721	45	25086	322.87	ug/L		87
9) 1,1-Dichloroethene	2.709	61	16636	5.77	ug/L		95
10) Carbon Disulfide	2.721	76	21441	4.30	ug/L		98
11) Freon 113	2.758	101	9024	4.85	ug/L		92
12) Iodomethane	2.843	142	780	9.18	ug/L		74
13) Acrolein	3.056	56	2673	4.54	ug/L		95
14) Methylene Chloride	3.287	84	16879	6.53	ug/L		89
15) Acetone	3.354	43	15302	11.01	ug/L		100
16) t-1,2-Dichloroethene	3.445	61	15778	5.10	ug/L		99
17) n-Hexane	3.524	86	2105	4.46	ug/L	#	78
18) Methyl-tert-butyl-ether	3.567	73	35533	4.71	ug/L		98
19) tert-Butanol (TBA)	3.695	59	183371	271.15	ug/L	#	89
20) Diisopropyl ether (DIPE)	3.950	45	10183	1.28	ug/L		88
21) 1,1-Dichloroethane	4.041	63	21734	5.11	ug/L		99
22) Acrylonitrile	4.108	53	7688	5.05	ug/L		93
23) Vinyl Acetate	4.315	43	20678	4.61	ug/L		95
24) Ethyl-tert-butyl ether...	4.309	59	8682	1.20	ug/L		91
25) c-1,2-Dichloroethene	4.577	61	16859	5.39	ug/L		95
26) 2,2-Dichloropropane	4.674	77	11014	4.38	ug/L		73
27) Bromochloromethane	4.765	49	11800	5.74	ug/L		80
28) Chloroform	4.857	83	18786	5.03	ug/L		94
29) Carbon Tetrachloride	4.972	117	9860	4.27	ug/L		98
30) Tetrahydrofuran	5.026	42	7530	5.30	ug/L		95
31) 1,1,1-Trichloroethane	5.044	97	16119	4.68	ug/L		88
33) 1,1-Dichloropropene	5.172	75	15079	4.87	ug/L		96
34) 2-Butanone (MEK)	5.172	43	23970	10.89	ug/L		93
35) Benzene	5.421	78	50838	4.92	ug/L		99
36) tert-Amyl methyl ether...	5.555	73	7970	1.13	ug/L		84
37) 1,2-Dichloroethane (EDC)	5.628	62	16366	5.67	ug/L		97
38) iso-Butyl Alcohol	5.701	43	36796	122.04	ug/L		98
40) Trichloroethene (TCE)	6.023	130	11515	4.70	ug/L		90
41) tert-Amyl ethyl ether ...	6.297	59	5809	1.11	ug/L		89
42) Dibromomethane	6.461	93	7005	4.89	ug/L		82
43) 1,2-Dichloropropane	6.571	63	13608	5.26	ug/L		96
44) Bromodichloromethane	6.656	83	11315	4.58	ug/L		97
46) 2-Chloroethyl Vinyl Ether	7.301	63	8222	4.58	ug/L	#	1
47) c-1,3-Dichloropropene	7.356	75	14722	4.51	ug/L		95

05/02/2020

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050110.D
Acq On : 1 May 2020 6:37 pm
Operator : PS/TNL
Sample : 0E01047-CAL6
Misc : 1X 5mL 5 PPB VOCRO
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:21 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49) Toluene	7.611	91	51650	5.14	ug/L		99
50) Tetrachloroethene (PCE)	8.055	166	10266	4.73	ug/L		88
51) 4-Methyl-2-Pentanone (...	8.074	43	43039	11.29	ug/L		96
52) t-1,3-Dichloropropene	8.110	75	13224	4.56	ug/L		93
53) 1,1,2-Trichloroethane	8.287	97	11074	5.17	ug/L		97
54) Dibromochloromethane	8.487	129	7326	4.50	ug/L		92
55) 1,3-Dichloropropane	8.609	76	20910	5.53	ug/L		95
56) 1,2-Dibromoethane (EDB)	8.749	107	10886	5.22	ug/L		97
57) 2-Hexanone	9.041	43	31279	10.36	ug/L		97
58) Chlorobenzene	9.315	112	31529	5.05	ug/L		96
59) Ethylbenzene	9.357	91	54300	5.22	ug/L		98
60) 1,1,1,2-Tetrachloroethane	9.388	131	8513	4.76	ug/L		96
61) m,p-Xylenes (2)	9.503	91	76797	10.08	ug/L		99
62) o-Xylene	9.911	91	38641	5.04	ug/L		98
63) Styrene	9.966	104	30339	4.90	ug/L		99
64) Bromoform	9.978	173	4997	4.41	ug/L		96
65) Isopropylbenzene	10.203	105	47983	5.11	ug/L		98
68) Bromobenzene	10.525	156	12125	4.94	ug/L	#	84
69) n-Propylbenzene	10.562	91	55957	5.27	ug/L		96
70) 1,1,2,2-Tetrachloroethane	10.629	83	16264	5.72	ug/L		94
71) 2-Chlorotoluene	10.689	126	11036	5.10	ug/L		99
72) 1,3,5-Trimethylbenzene	10.732	105	37400	5.33	ug/L		92
73) 1,2,3-Trichloropropane	10.732	110	5809	5.57	ug/L	#	82
74) t-1,4-Dichloro-2-butene	10.781	88	1356	3.34	ug/L	#	61
75) 4-Chlorotoluene	10.823	91	34933	5.31	ug/L		92
76) tert-Butylbenzene	10.988	91	20567	5.17	ug/L		95
77) 1,2,4-Trimethylbenzene	11.048	105	37657	5.40	ug/L		98
78) sec-Butylbenzene	11.134	105	47200	5.27	ug/L		95
79) 4-Isopropyltoluene	11.249	119	36771	4.96	ug/L		99
80) 1,3-Dichlorobenzene	11.298	146	21939	4.99	ug/L		97
81) 1,4-Dichlorobenzene	11.371	146	23301	5.11	ug/L		97
82) n-Butylbenzene	11.578	91	33821	5.24	ug/L		95
83) 1,2-Dichlorobenzene	11.693	146	21370	4.95	ug/L		95
84) 1,2-Dibromo-3-Chloropr...	12.289	157	3101	3.82	ug/L	#	57
85) Hexachlorobutadiene	12.788	223	3217	4.82	ug/L		91
86) 1,2,4-Trichlorobenzene	12.813	180	13260	4.67	ug/L		94
87) Naphthalene	13.074	128	42651	4.66	ug/L		98
88) 1,2,3-Trichlorobenzene	13.232	180	13462	4.76	ug/L		98

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050110.D
Acq On : 1 May 2020 6:37 pm
Operator : PS/TNL
Sample : 0E01047-CAL6
Misc : 1X 5mL 5 PPB VOCRO
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:21 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	5.531	99	110671	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	9.296	117	308470	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	11.359	152	150765	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	5.032	111	92158	48.12	ug/L		0.00
39) 1,4-Difluorobenzene (S)	6.072	114	346910	47.36	ug/L		0.00
48) Toluene-d8 (S)	7.556	98	411872	52.17	ug/L		0.00
67) 4-Bromofluorobenzene (S)	10.446	174	114040	47.98	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.401	85	10726	5.39	ug/L		98
3) Chloromethane	1.578	50	14279	5.14	ug/L		98
4) Vinyl Chloride	1.651	62	16226	6.15	ug/L		93
5) Bromomethane	1.955	96	12852	8.05	ug/L		98
6) Chloroethane	2.077	64	9280	6.88	ug/L		95
7) Trichlorofluoromethane	2.216	101	19101	6.37	ug/L		96
8) Ethanol	2.721	45	25086	322.87	ug/L		87
9) 1,1-Dichloroethene	2.709	61	16636	5.77	ug/L		95
10) Carbon Disulfide	2.721	76	21441	4.30	ug/L		98
11) Freon 113	2.758	101	9024	4.85	ug/L		92
12) Iodomethane	2.843	142	780	9.18	ug/L		74
13) Acrolein	3.056	56	2673	4.54	ug/L		95
14) Methylene Chloride	3.287	84	16879	6.53	ug/L		89
15) Acetone	3.354	43	15302	11.01	ug/L		100
16) t-1,2-Dichloroethene	3.445	61	15778	5.10	ug/L		99
17) n-Hexane	3.524	86	2105	4.46	ug/L	#	78
18) Methyl-tert-butyl-ether	3.567	73	35533	4.71	ug/L		98
19) tert-Butanol (TBA)	3.695	59	183371	271.15	ug/L	#	89
20) Diisopropyl ether (DIPE)	3.950	45	10183	1.28	ug/L		88
21) 1,1-Dichloroethane	4.041	63	21734	5.11	ug/L		99
22) Acrylonitrile	4.108	53	7688	5.05	ug/L		93
23) Vinyl Acetate	4.315	43	20678	4.61	ug/L		95
24) Ethyl-tert-butyl ether...	4.309	59	8682	1.20	ug/L		91
25) c-1,2-Dichloroethene	4.577	61	16859	5.39	ug/L		95
26) 2,2-Dichloropropane	4.674	77	11014	4.38	ug/L		73
27) Bromochloromethane	4.765	49	11800	5.74	ug/L		80
28) Chloroform	4.857	83	18786	5.03	ug/L		94
29) Carbon Tetrachloride	4.972	117	9860	4.27	ug/L		98
30) Tetrahydrofuran	5.026	42	7530	5.30	ug/L		95
31) 1,1,1-Trichloroethane	5.044	97	16119	4.68	ug/L		88
33) 1,1-Dichloropropene	5.172	75	15079	4.87	ug/L		96
34) 2-Butanone (MEK)	5.172	43	23970	10.89	ug/L		93
35) Benzene	5.421	78	50838	4.92	ug/L		99
36) tert-Amyl methyl ether...	5.555	73	7970	1.13	ug/L		84
37) 1,2-Dichloroethane (EDC)	5.628	62	16366	5.67	ug/L		97
38) iso-Butyl Alcohol	5.701	43	36796	122.04	ug/L		98
40) Trichloroethene (TCE)	6.023	130	11515	4.70	ug/L		90
41) tert-Amyl ethyl ether ...	6.297	59	5809	1.11	ug/L		89
42) Dibromomethane	6.461	93	7005	4.89	ug/L		82
43) 1,2-Dichloropropane	6.571	63	13608	5.26	ug/L		96
44) Bromodichloromethane	6.656	83	11315	4.58	ug/L		97
46) 2-Chloroethyl Vinyl Ether	7.301	63	8222	4.58	ug/L	#	1
47) c-1,3-Dichloropropene	7.356	75	14722	4.51	ug/L		95

5/2/2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050110.D
Acq On : 1 May 2020 6:37 pm
Operator : PS/TNL
Sample : 0E01047-CAL6
Misc : 1X 5mL 5 PPB VOCRO
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:21 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

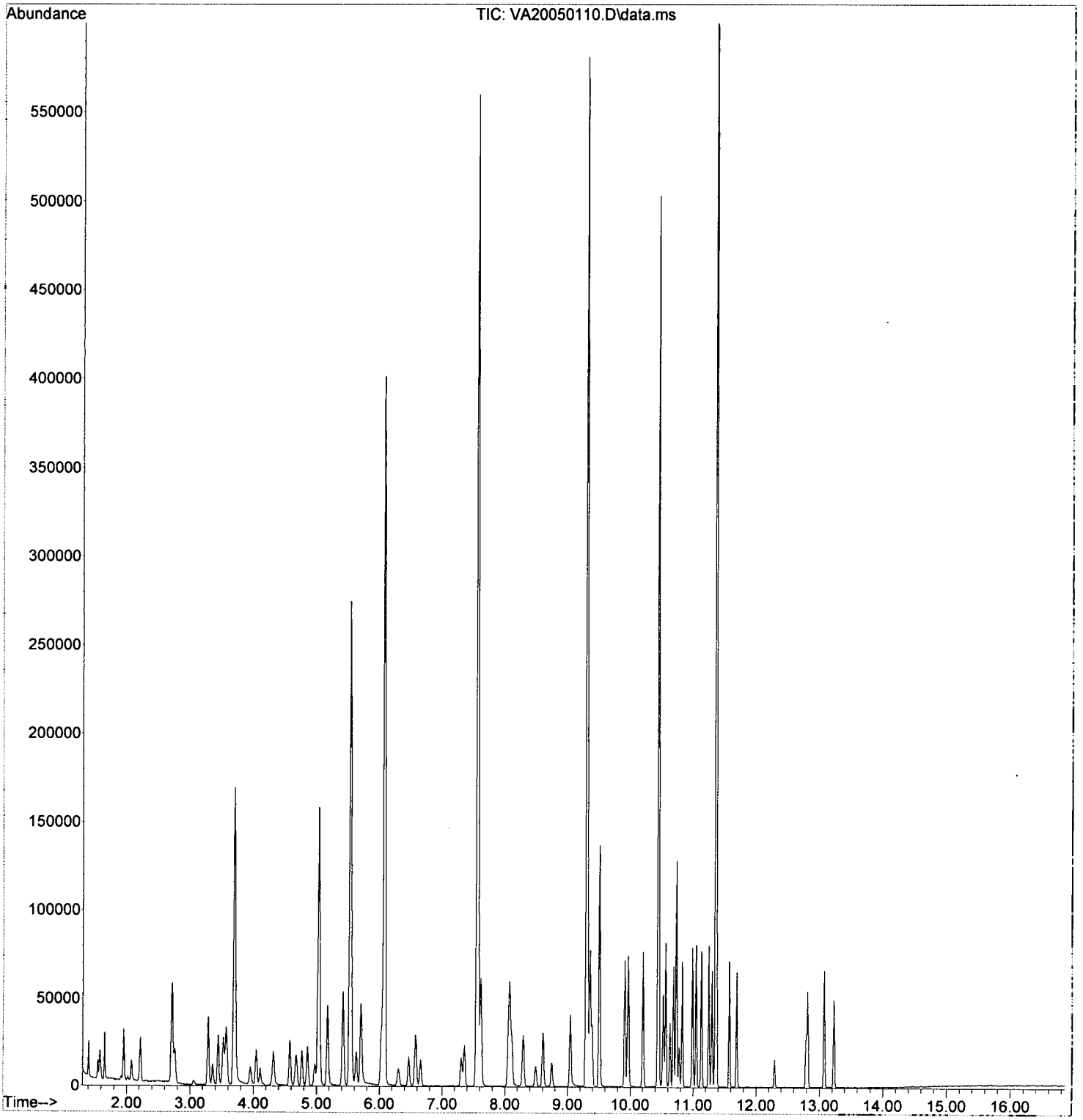
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49) Toluene	7.611	91	51650	5.14	ug/L		99
50) Tetrachloroethene (PCE)	8.055	166	10266	4.73	ug/L		88
51) 4-Methyl-2-Pentanone (...	8.074	43	43039	11.29	ug/L		96
52) t-1,3-Dichloropropene	8.110	75	13224	4.56	ug/L		93
53) 1,1,2-Trichloroethane	8.287	97	11074	5.17	ug/L		97
54) Dibromochloromethane	8.487	129	7326	4.50	ug/L		92
55) 1,3-Dichloropropane	8.609	76	20910	5.53	ug/L		95
56) 1,2-Dibromoethane (EDB)	8.749	107	10886	5.22	ug/L		97
57) 2-Hexanone	9.041	43	31279	10.36	ug/L		97
58) Chlorobenzene	9.315	112	31529	5.05	ug/L		96
59) Ethylbenzene	9.357	91	54300	5.22	ug/L		98
60) 1,1,1,2-Tetrachloroethane	9.388	131	8513	4.76	ug/L		96
61) m,p-Xylenes (2)	9.503	91	76797	10.08	ug/L		99
62) o-Xylene	9.911	91	38641	5.04	ug/L		98
63) Styrene	9.966	104	30339	4.90	ug/L		99
64) Bromoform	9.978	173	4997	4.41	ug/L		96
65) Isopropylbenzene	10.203	105	47983	5.11	ug/L		98
68) Bromobenzene	10.525	156	12125	4.94	ug/L	#	84
69) n-Propylbenzene	10.562	91	55957	5.27	ug/L		96
70) 1,1,2,2-Tetrachloroethane	10.629	83	16264	5.72	ug/L		94
71) 2-Chlorotoluene	10.689	126	11036	5.10	ug/L		99
72) 1,3,5-Trimethylbenzene	10.732	105	37400	5.33	ug/L		92
73) 1,2,3-Trichloropropane	10.732	110	5809	5.57	ug/L	#	82
74) t-1,4-Dichloro-2-butene	10.781	88	1356	3.34	ug/L	#	61
75) 4-Chlorotoluene	10.823	91	34933	5.31	ug/L		92
76) tert-Butylbenzene	10.988	91	20567	5.17	ug/L		95
77) 1,2,4-Trimethylbenzene	11.048	105	37657	5.40	ug/L		98
78) sec-Butylbenzene	11.134	105	47200	5.27	ug/L		95
79) 4-Isopropyltoluene	11.249	119	36771	4.96	ug/L		99
80) 1,3-Dichlorobenzene	11.298	146	21939	4.99	ug/L		97
81) 1,4-Dichlorobenzene	11.371	146	23301	5.11	ug/L		97
82) n-Butylbenzene	11.578	91	33821	5.24	ug/L		95
83) 1,2-Dichlorobenzene	11.693	146	21370	4.95	ug/L		95
84) 1,2-Dibromo-3-Chloropr...	12.289	157	3101	3.82	ug/L	#	57
85) Hexachlorobutadiene	12.788	223	3217	4.82	ug/L		91
86) 1,2,4-Trichlorobenzene	12.813	180	13260	4.67	ug/L		94
87) Naphthalene	13.074	128	42651	4.66	ug/L		98
88) 1,2,3-Trichlorobenzene	13.232	180	13462	4.76	ug/L		98

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050110.D
Acq On : 1 May 2020 6:37 pm
Operator : PS/TNL
Sample : 0E01047-CAL6
Misc : 1X 5mL 5 PPB VOCRO
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:21 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050111.D
Acq On : 1 May 2020 7:05 pm
Operator : PS/TNL
Sample : 0E01047-CAL7
Misc : 1X 5mL 10 PPB VOCRO
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:23 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

5/2/2020

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	5.531	99	109991	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	9.297	117	315207	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	11.359	152	158156	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	5.032	111	91982	48.33	ug/L		0.00
39) 1,4-Difluorobenzene (S)	6.072	114	347806	47.77	ug/L		0.00
48) Toluene-d8 (S)	7.557	98	416502	51.63	ug/L		0.00
67) 4-Bromofluorobenzene (S)	10.446	174	119746	48.03	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.404	85	22350	11.29	ug/L		95
3) Chloromethane	1.580	50	30405	11.02	ug/L		99
4) Vinyl Chloride	1.653	62	33602	12.81	ug/L		96
5) Bromomethane	1.951	96	26383	16.62	ug/L		99
6) Chloroethane	2.073	64	18690	15.29	ug/L		99
7) Trichlorofluoromethane	2.213	101	40304	13.52	ug/L		98
8) Ethanol	2.718	45	51625	668.54	ug/L		93
9) 1,1-Dichloroethene	2.706	61	35159	12.26	ug/L		90
10) Carbon Disulfide	2.718	76	47033	9.48	ug/L		99
11) Freon 113	2.760	101	19337	10.46	ug/L		94
12) Iodomethane	2.846	142	2501	10.84	ug/L		81
13) Acrolein	3.059	56	5746	9.83	ug/L		94
14) Methylene Chloride	3.284	84	28712	11.17	ug/L		88
15) Acetone	3.351	43	30673	22.20	ug/L		97
16) t-1,2-Dichloroethene	3.442	61	34168	11.11	ug/L		98
17) n-Hexane	3.527	86	4479	9.56	ug/L	#	72
18) Methyl-tert-butyl-ether	3.570	73	75254	10.03	ug/L		98
19) tert-Butanol (TBA)	3.697	59	398166	592.41	ug/L	#	94
20) Diisopropyl ether (DIPE)	3.953	45	21208	2.68	ug/L		93
21) 1,1-Dichloroethane	4.044	63	46818	11.08	ug/L		99
22) Acrylonitrile	4.105	53	16920	11.18	ug/L		93
23) Vinyl Acetate	4.318	43	45570	10.21	ug/L		96
24) Ethyl-tert-butyl ether...	4.306	59	18720	2.61	ug/L		94
25) c-1,2-Dichloroethene	4.573	61	35094	11.28	ug/L		96
26) 2,2-Dichloropropane	4.677	77	23768	9.51	ug/L		73
27) Bromochloromethane	4.768	49	25073	12.28	ug/L		77
28) Chloroform	4.853	83	40834	10.99	ug/L		95
29) Carbon Tetrachloride	4.975	117	21825	9.52	ug/L		96
30) Tetrahydrofuran	5.014	42	15433	10.92	ug/L		96
31) 1,1,1-Trichloroethane	5.044	97	34608	10.12	ug/L		96
33) 1,1-Dichloropropene	5.172	75	32649	10.61	ug/L		94
34) 2-Butanone (MEK)	5.172	43	50255	22.97	ug/L		92
35) Benzene	5.415	78	107981	10.50	ug/L		99
36) tert-Amyl methyl ether...	5.555	73	16574	2.36	ug/L		90
37) 1,2-Dichloroethane (EDC)	5.628	62	33441	11.65	ug/L		98
38) iso-Butyl Alcohol	5.701	43	80769	269.54	ug/L		98
40) Trichloroethene (TCE)	6.030	130	24858	10.20	ug/L		96
41) tert-Amyl ethyl ether ...	6.304	59	12709	2.45	ug/L		87
42) Dibromomethane	6.462	93	15187	10.67	ug/L		85
43) 1,2-Dichloropropane	6.571	63	28294	11.00	ug/L		94
44) Bromodichloromethane	6.656	83	25899	10.55	ug/L		99
46) 2-Chloroethyl Vinyl Ether	7.301	63	18238	9.95	ug/L	#	1
47) c-1,3-Dichloropropene	7.350	75	33353	10.01	ug/L		93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050111.D
Acq On : 1 May 2020 7:05 pm
Operator : PS/TNL
Sample : 0E01047-CAL7
Misc : 1X 5mL 10 PPB VOCRO
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:23 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49) Toluene	7.612	91	110040	10.72	ug/L		98
50) Tetrachloroethene (PCE)	8.056	166	22066	9.95	ug/L		92
51) 4-Methyl-2-Pentanone (...	8.074	43	94852	24.86	ug/L		98
52) t-1,3-Dichloropropene	8.110	75	30669	10.35	ug/L		97
53) 1,1,2-Trichloroethane	8.293	97	24190	11.06	ug/L		97
54) Dibromochloromethane	8.494	129	17270	9.78	ug/L		98
55) 1,3-Dichloropropane	8.603	76	44848	11.62	ug/L		96
56) 1,2-Dibromoethane (EDB)	8.749	107	23352	10.82	ug/L		95
57) 2-Hexanone	9.041	43	71104	23.06	ug/L		99
58) Chlorobenzene	9.315	112	66248	10.38	ug/L		95
59) Ethylbenzene	9.357	91	115975	10.91	ug/L		98
60) 1,1,1,2-Tetrachloroethane	9.388	131	18577	9.94	ug/L		93
61) m,p-Xylenes (2)	9.503	91	170606	21.92	ug/L		99
62) o-Xylene	9.911	91	85196	10.87	ug/L		97
63) Styrene	9.966	104	67314	10.64	ug/L		97
64) Bromoform	9.972	173	10844	8.53	ug/L		95
65) Isopropylbenzene	10.203	105	104717	10.91	ug/L		97
68) Bromobenzene	10.525	156	26415	10.25	ug/L		88
69) n-Propylbenzene	10.562	91	124648	11.19	ug/L		96
70) 1,1,2,2-Tetrachloroethane	10.629	83	34642	11.60	ug/L		98
71) 2-Chlorotoluene	10.684	126	24592	10.84	ug/L		88
72) 1,3,5-Trimethylbenzene	10.732	105	82684	11.23	ug/L		93
73) 1,2,3-Trichloropropane	10.732	110	12204	11.16	ug/L		88
74) t-1,4-Dichloro-2-butene	10.775	88	3488	8.18	ug/L	#	60
75) 4-Chlorotoluene	10.824	91	75693	10.97	ug/L		94
76) tert-Butylbenzene	10.988	91	45819	10.98	ug/L		96
77) 1,2,4-Trimethylbenzene	11.049	105	82706	11.31	ug/L		99
78) sec-Butylbenzene	11.134	105	104348	11.10	ug/L		97
79) 4-Isopropyltoluene	11.249	119	84078	10.80	ug/L		99
80) 1,3-Dichlorobenzene	11.298	146	49015	10.68	ug/L		98
81) 1,4-Dichlorobenzene	11.371	146	49457	10.38	ug/L		98
82) n-Butylbenzene	11.578	91	77346	11.42	ug/L		97
83) 1,2-Dichlorobenzene	11.694	146	47726	10.53	ug/L		97
84) 1,2-Dibromo-3-Chloropr...	12.290	157	6943	8.15	ug/L	#	61
85) Hexachlorobutadiene	12.789	223	6905	9.87	ug/L		94
86) 1,2,4-Trichlorobenzene	12.813	180	30350	10.19	ug/L		98
87) Naphthalene	13.074	128	101118	10.54	ug/L		98
88) 1,2,3-Trichlorobenzene	13.227	180	30361	10.24	ug/L		96

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050111.D
Acq On : 1 May 2020 7:05 pm
Operator : PS/TNL
Sample : 0E01047-CAL7
Misc : 1X 5mL 10 PPB VOCRO
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:23 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

5/2/2020

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	5.531	99	109991	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	9.297	117	315207	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	11.359	152	158156	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	5.032	111	91982	48.38	ug/L		0.00
39) 1,4-Difluorobenzene (S)	6.072	114	347806	47.77	ug/L		0.00
48) Toluene-d8 (S)	7.557	98	416502	51.63	ug/L		0.00
67) 4-Bromofluorobenzene (S)	10.446	174	119746	48.03	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.404	85	22350	11.29	ug/L		95
3) Chloromethane	1.580	50	30405	11.02	ug/L		99
4) Vinyl Chloride	1.653	62	33602	12.81	ug/L		96
5) Bromomethane	1.951	96	26383	16.62	ug/L		99
6) Chloroethane	2.073	64	18690	15.29	ug/L		99
7) Trichlorofluoromethane	2.213	101	40304	13.52	ug/L		98
8) Ethanol	2.718	45	51625	668.54	ug/L		93
9) 1,1-Dichloroethene	2.706	61	35159	12.26	ug/L		90
10) Carbon Disulfide	2.718	76	47033	9.48	ug/L		99
11) Freon 113	2.760	101	19337	10.46	ug/L		94
12) Iodomethane	2.846	142	2501	10.84	ug/L		81
13) Acrolein	3.059	56	5746	9.83	ug/L		94
14) Methylene Chloride	3.284	84	28712	11.17	ug/L		88
15) Acetone	3.351	43	30673	22.20	ug/L		97
16) t-1,2-Dichloroethene	3.442	61	34168	11.11	ug/L		98
17) n-Hexane	3.527	86	4479	9.56	ug/L	#	72
18) Methyl-tert-butyl-ether	3.570	73	75254	10.03	ug/L		98
19) tert-Butanol (TBA)	3.697	59	398166	592.41	ug/L	#	94
20) Diisopropyl ether (DIPE)	3.953	45	21208	2.68	ug/L		93
21) 1,1-Dichloroethane	4.044	63	46818	11.08	ug/L		99
22) Acrylonitrile	4.105	53	16920	11.18	ug/L		93
23) Vinyl Acetate	4.318	43	45570	10.21	ug/L		96
24) Ethyl-tert-butyl ether...	4.306	59	18720	2.61	ug/L		94
25) c-1,2-Dichloroethene	4.573	61	35094	11.28	ug/L		96
26) 2,2-Dichloropropane	4.677	77	23768	9.51	ug/L		73
27) Bromochloromethane	4.768	49	25073	12.28	ug/L		77
28) Chloroform	4.853	83	40834	10.99	ug/L		95
29) Carbon Tetrachloride	4.975	117	21825	9.52	ug/L		96
30) Tetrahydrofuran	5.014	42	15433	10.92	ug/L		96
31) 1,1,1-Trichloroethane	5.044	97	34608	10.12	ug/L		96
33) 1,1-Dichloropropene	5.172	75	32649	10.61	ug/L		94
34) 2-Butanone (MEK)	5.172	43	50255	22.97	ug/L		92
35) Benzene	5.415	78	107981	10.50	ug/L		99
36) tert-Amyl methyl ether...	5.555	73	16574	2.36	ug/L		90
37) 1,2-Dichloroethane (EDC)	5.628	62	33441	11.65	ug/L		98
38) iso-Butyl Alcohol	5.701	43	80769	269.54	ug/L		98
40) Trichloroethene (TCE)	6.030	130	24858	10.20	ug/L		96
41) tert-Amyl ethyl ether ...	6.304	59	12709	2.45	ug/L		87
42) Dibromomethane	6.462	93	15187	10.67	ug/L		85
43) 1,2-Dichloropropane	6.571	63	28294	11.00	ug/L		94
44) Bromodichloromethane	6.656	83	25899	10.55	ug/L		99
46) 2-Chloroethyl Vinyl Ether	7.301	63	18238	9.95	ug/L	#	1
47) c-1,3-Dichloropropene	7.350	75	33353	10.01	ug/L		93

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050111.D
Acq On : 1 May 2020 7:05 pm
Operator : PS/TNL
Sample : 0E01047-CAL7
Misc : 1X 5mL 10 PPB VOCRO
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:23 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

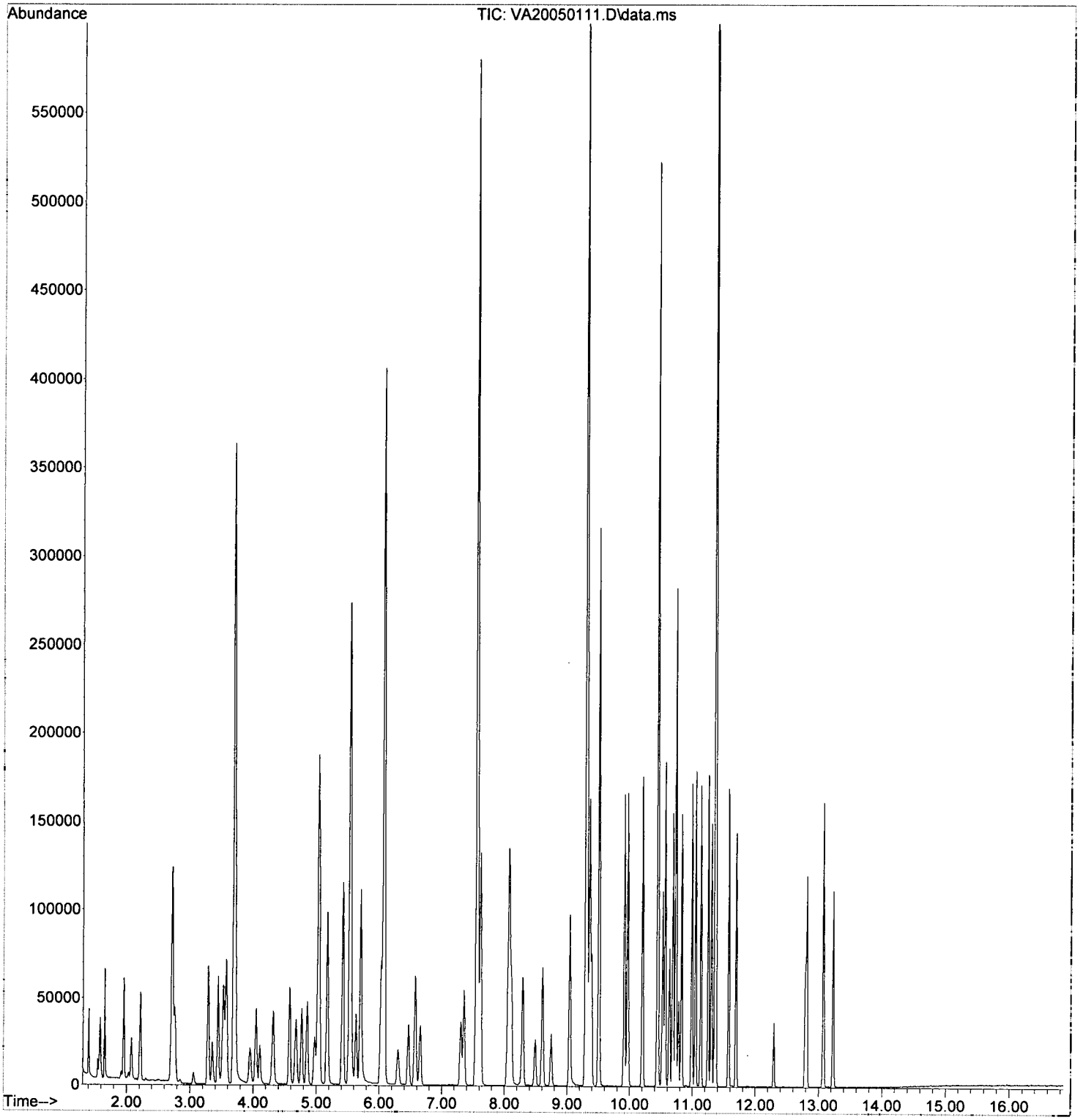
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49) Toluene	7.612	91	110040	10.72	ug/L		98
50) Tetrachloroethene (PCE)	8.056	166	22066	9.95	ug/L		92
51) 4-Methyl-2-Pentanone (...	8.074	43	94852	24.36	ug/L		98
52) t-1,3-Dichloropropene	8.110	75	30669	10.35	ug/L		97
53) 1,1,2-Trichloroethane	8.293	97	24190	11.06	ug/L		97
54) Dibromochloromethane	8.494	129	17270	9.78	ug/L		98
55) 1,3-Dichloropropane	8.603	76	44848	11.62	ug/L		96
56) 1,2-Dibromoethane (EDB)	8.749	107	23352	10.82	ug/L		95
57) 2-Hexanone	9.041	43	71104	23.06	ug/L		99
58) Chlorobenzene	9.315	112	66248	10.38	ug/L		95
59) Ethylbenzene	9.357	91	115975	10.91	ug/L		98
60) 1,1,1,2-Tetrachloroethane	9.388	131	18577	9.94	ug/L		93
61) m,p-Xylenes (2)	9.503	91	170606	21.92	ug/L		99
62) o-Xylene	9.911	91	85196	10.87	ug/L		97
63) Styrene	9.966	104	67314	10.64	ug/L		97
64) Bromoform	9.972	173	10844	8.53	ug/L		95
65) Isopropylbenzene	10.203	105	104717	10.91	ug/L		97
68) Bromobenzene	10.525	156	26415	10.25	ug/L		88
69) n-Propylbenzene	10.562	91	124648	11.19	ug/L		96
70) 1,1,2,2-Tetrachloroethane	10.629	83	34642	11.60	ug/L		98
71) 2-Chlorotoluene	10.684	126	24592	10.84	ug/L		88
72) 1,3,5-Trimethylbenzene	10.732	105	82684	11.23	ug/L		93
73) 1,2,3-Trichloropropane	10.732	110	12204	11.16	ug/L		88
74) t-1,4-Dichloro-2-butene	10.775	88	3488	8.18	ug/L	#	60
75) 4-Chlorotoluene	10.824	91	75693	10.97	ug/L		94
76) tert-Butylbenzene	10.988	91	45819	10.98	ug/L		96
77) 1,2,4-Trimethylbenzene	11.049	105	82706	11.31	ug/L		99
78) sec-Butylbenzene	11.134	105	104348	11.10	ug/L		97
79) 4-Isopropyltoluene	11.249	119	84078	10.80	ug/L		99
80) 1,3-Dichlorobenzene	11.298	146	49015	10.68	ug/L		98
81) 1,4-Dichlorobenzene	11.371	146	49457	10.38	ug/L		98
82) n-Butylbenzene	11.578	91	77346	11.42	ug/L		97
83) 1,2-Dichlorobenzene	11.694	146	47726	10.53	ug/L		97
84) 1,2-Dibromo-3-Chloropr...	12.290	157	6943	8.15	ug/L	#	61
85) Hexachlorobutadiene	12.789	223	6905	9.87	ug/L		94
86) 1,2,4-Trichlorobenzene	12.813	180	30350	10.19	ug/L		98
87) Naphthalene	13.074	128	101118	10.54	ug/L		98
88) 1,2,3-Trichlorobenzene	13.227	180	30361	10.24	ug/L		96

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050111.D
Acq On : 1 May 2020 7:05 pm
Operator : PS/TNL
Sample : 0E01047-CAL7
Misc : 1X 5mL 10 PPB VOCRO
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:23 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050112.D
Acq On : 1 May 2020 7:32 pm
Operator : PS/TNL
Sample : 0E01047-CAL8
Misc : 1X 5mL 20 PPB VOCRO
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:25 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	5.531	99	110975	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	9.296	117	316682	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	11.359	152	156505	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	5.032	111	93314	48.59	ug/L		0.00
39) 1,4-Difluorobenzene (S)	6.072	114	349480	47.58	ug/L		0.00
48) Toluene-d8 (S)	7.557	98	418138	51.59	ug/L		0.00
67) 4-Bromofluorobenzene (S)	10.446	174	120565	48.87	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.402	85	44026	22.05	ug/L		99
3) Chloromethane	1.578	50	59002	21.19	ug/L		99
4) Vinyl Chloride	1.651	62	66549	25.14	ug/L		95
5) Bromomethane	1.956	96	49459	30.88	ug/L		96
6) Chloroethane	2.065	64	31338	27.02	ug/L		94
7) Trichlorofluoromethane	2.211	101	80115	26.63	ug/L		99
8) Ethanol	2.722	45	105531	1354.51	ug/L		91
9) 1,1-Dichloroethene	2.704	61	69346	23.97	ug/L		92
10) Carbon Disulfide	2.716	76	96907	19.36	ug/L		98
11) Freon 113	2.759	101	37518	20.12	ug/L		94
12) Iodomethane	2.838	142	8485	16.38	ug/L		88
13) Acrolein	3.057	56	11293	19.15	ug/L		96
14) Methylene Chloride	3.288	84	53531	20.64	ug/L		91
15) Acetone	3.355	43	60239	43.21	ug/L		98
16) t-1,2-Dichloroethene	3.440	61	66791	21.53	ug/L		97
17) n-Hexane	3.519	86	9407	19.89	ug/L	#	81
18) Methyl-tert-butyl-ether	3.568	73	151575	20.02	ug/L		100
19) tert-Butanol (TBA)	3.695	59	848873	1251.79	ug/L	#	100
20) Diisopropyl ether (DIPE)	3.951	45	42253	5.29	ug/L		93
21) 1,1-Dichloroethane	4.042	63	90995	21.33	ug/L		98
22) Acrylonitrile	4.103	53	34433	22.55	ug/L		96
23) Vinyl Acetate	4.316	43	75051	16.67	ug/L		97
24) Ethyl-tert-butyl ether...	4.310	59	37157	5.13	ug/L		94
25) c-1,2-Dichloroethene	4.571	61	69485	22.14	ug/L		95
26) 2,2-Dichloropropane	4.675	77	49283	19.55	ug/L		83
27) Bromochloromethane	4.766	49	48854	23.71	ug/L		79
28) Chloroform	4.857	83	80521	21.49	ug/L		95
29) Carbon Tetrachloride	4.973	117	46497	20.10	ug/L		93
30) Tetrahydrofuran	5.020	42	29724	20.85	ug/L		97
31) 1,1,1-Trichloroethane	5.044	97	70669	20.48	ug/L		96
33) 1,1-Dichloropropene	5.172	75	65530	21.10	ug/L		95
34) 2-Butanone (MEK)	5.172	43	104306	47.25	ug/L		95
35) Benzene	5.415	78	211881	20.43	ug/L		99
36) tert-Amyl methyl ether...	5.561	73	33018	4.65	ug/L		95
37) 1,2-Dichloroethane (EDC)	5.628	62	67337	23.25	ug/L		99
38) iso-Butyl Alcohol	5.701	43	170427	563.71	ug/L		98
40) Trichloroethene (TCE)	6.024	130	50998	20.74	ug/L		94
41) tert-Amyl ethyl ether ...	6.297	59	25508	4.87	ug/L		88
42) Dibromomethane	6.462	93	30077	20.95	ug/L		89
43) 1,2-Dichloropropane	6.571	63	55670	21.46	ug/L		93
44) Bromodichloromethane	6.656	83	53754	21.71	ug/L		97
46) 2-Chloroethyl Vinyl Ether	7.301	63	39695	21.55	ug/L	#	1
47) c-1,3-Dichloropropene	7.350	75	71881	21.47	ug/L		98

5/2/2024

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050112.D
Acq On : 1 May 2020 7:32 pm
Operator : PS/TNL
Sample : 0E01047-CAL8
Misc : 1X 5mL 20 PPB VOCRO
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:25 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49) Toluene	7.611	91	215065	20.85	ug/L		98
50) Tetrachloroethene (PCE)	8.055	166	44523	19.98	ug/L		96
51) 4-Methyl-2-Pentanone (...	8.074	43	198938	50.85	ug/L		98
52) t-1,3-Dichloropropene	8.110	75	66060	22.19	ug/L		97
53) 1,1,2-Trichloroethane	8.287	97	48077	21.87	ug/L		95
54) Dibromochloromethane	8.487	129	37481	20.32	ug/L		99
55) 1,3-Dichloropropane	8.603	76	89646	23.11	ug/L		95
56) 1,2-Dibromoethane (EDB)	8.743	107	48257	21.95	ug/L		98
57) 2-Hexanone	9.035	43	151411	48.87	ug/L		97
58) Chlorobenzene	9.315	112	132090	20.60	ug/L		95
59) Ethylbenzene	9.357	91	233605	21.87	ug/L		99
60) 1,1,1,2-Tetrachloroethane	9.388	131	39515	20.60	ug/L		99
61) m,p-Xylenes (2)	9.503	91	344549	44.07	ug/L		98
62) o-Xylene	9.911	91	174261	22.13	ug/L		97
63) Styrene	9.966	104	139802	22.00	ug/L		98
64) Bromoform	9.972	173	25504	18.63	ug/L		96
65) Isopropylbenzene	10.203	105	214881	22.29	ug/L		98
68) Bromobenzene	10.525	156	53243	20.89	ug/L		87
69) n-Propylbenzene	10.562	91	253278	22.98	ug/L		95
70) 1,1,2,2-Tetrachloroethane	10.629	83	68008	23.02	ug/L		96
71) 2-Chlorotoluene	10.683	126	49268	21.95	ug/L		90
72) 1,3,5-Trimethylbenzene	10.732	105	169602	23.27	ug/L		94
73) 1,2,3-Trichloropropane	10.732	110	25379	23.45	ug/L		92
74) t-1,4-Dichloro-2-butene	10.775	88	7849	18.60	ug/L	#	77
75) 4-Chlorotoluene	10.823	91	154315	22.61	ug/L		96
76) tert-Butylbenzene	10.988	91	94374	22.86	ug/L		95
77) 1,2,4-Trimethylbenzene	11.048	105	170486	23.56	ug/L		98
78) sec-Butylbenzene	11.134	105	213565	22.95	ug/L		98
79) 4-Isopropyltoluene	11.249	119	177293	23.02	ug/L		100
80) 1,3-Dichlorobenzene	11.298	146	97504	21.37	ug/L		97
81) 1,4-Dichlorobenzene	11.371	146	100849	21.29	ug/L		96
82) n-Butylbenzene	11.572	91	161070	24.04	ug/L		95
83) 1,2-Dichlorobenzene	11.693	146	95928	21.38	ug/L		98
84) 1,2-Dibromo-3-Chloropr...	12.290	157	16133	19.14	ug/L	#	65
85) Hexachlorobutadiene	12.788	223	14319	20.68	ug/L		96
86) 1,2,4-Trichlorobenzene	12.813	180	63091	21.41	ug/L		97
87) Naphthalene	13.074	128	217424	22.91	ug/L		98
88) 1,2,3-Trichlorobenzene	13.226	180	62525	21.31	ug/L		99

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050112.D
Acq On : 1 May 2020 7:32 pm
Operator : PS/TNL
Sample : 0E01047-CAL8
Misc : 1X 5mL 20 PPB VOCRO
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:25 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	5.531	99	110975	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	9.296	117	316682	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	11.359	152	156505	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	5.032	111	93314	48.59	ug/L		0.00
39) 1,4-Difluorobenzene (S)	6.072	114	349480	47.58	ug/L		0.00
48) Toluene-d8 (S)	7.557	98	418138	51.59	ug/L		0.00
67) 4-Bromofluorobenzene (S)	10.446	174	120565	48.87	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.402	85	44026	22.05	ug/L		99
3) Chloromethane	1.578	50	59002	21.19	ug/L		99
4) Vinyl Chloride	1.651	62	66549	25.14	ug/L		95
5) Bromomethane	1.956	96	49459	30.88	ug/L		96
6) Chloroethane	2.065	64	31338	27.02	ug/L		94
7) Trichlorofluoromethane	2.211	101	80115	26.63	ug/L		99
8) Ethanol	2.722	45	105531	1354.61	ug/L		91
9) 1,1-Dichloroethene	2.704	61	69346	23.97	ug/L		92
10) Carbon Disulfide	2.716	76	96907	19.36	ug/L		98
11) Freon 113	2.759	101	37518	20.12	ug/L		94
12) Iodomethane	2.838	142	8485	16.38	ug/L		88
13) Acrolein	3.057	56	11293	19.15	ug/L		96
14) Methylene Chloride	3.288	84	53531	20.64	ug/L		91
15) Acetone	3.355	43	60239	43.21	ug/L		98
16) t-1,2-Dichloroethene	3.440	61	66791	21.53	ug/L		97
17) n-Hexane	3.519	86	9407	19.89	ug/L	#	81
18) Methyl-tert-butyl-ether	3.568	73	151575	20.02	ug/L		100
19) tert-Butanol (TBA)	3.695	59	848873	1251.79	ug/L	#	100
20) Diisopropyl ether (DIPE)	3.951	45	42253	5.29	ug/L		93
21) 1,1-Dichloroethane	4.042	63	90995	21.33	ug/L		98
22) Acrylonitrile	4.103	53	34433	22.55	ug/L		96
23) Vinyl Acetate	4.316	43	75051	16.67	ug/L		97
24) Ethyl-tert-butyl ether...	4.310	59	37157	5.13	ug/L		94
25) c-1,2-Dichloroethene	4.571	61	69485	22.14	ug/L		95
26) 2,2-Dichloropropane	4.675	77	49283	19.55	ug/L		83
27) Bromochloromethane	4.766	49	48854	23.71	ug/L		79
28) Chloroform	4.857	83	80521	21.49	ug/L		95
29) Carbon Tetrachloride	4.973	117	46497	20.10	ug/L		93
30) Tetrahydrofuran	5.020	42	29724	20.85	ug/L		97
31) 1,1,1-Trichloroethane	5.044	97	70669	20.48	ug/L		96
33) 1,1-Dichloropropene	5.172	75	65530	21.10	ug/L		95
34) 2-Butanone (MEK)	5.172	43	104306	47.25	ug/L		95
35) Benzene	5.415	78	211881	20.43	ug/L		99
36) tert-Amyl methyl ether...	5.561	73	33018	4.65	ug/L		95
37) 1,2-Dichloroethane (EDC)	5.628	62	67337	23.26	ug/L		99
38) iso-Butyl Alcohol	5.701	43	170427	563.71	ug/L		98
40) Trichloroethene (TCE)	6.024	130	50998	20.74	ug/L		94
41) tert-Amyl ethyl ether ...	6.297	59	25508	4.87	ug/L		88
42) Dibromomethane	6.462	93	30077	20.95	ug/L		89
43) 1,2-Dichloropropane	6.571	63	55670	21.46	ug/L		93
44) Bromodichloromethane	6.656	83	53754	21.71	ug/L		97
46) 2-Chloroethyl Vinyl Ether	7.301	63	39695	21.55	ug/L	#	1
47) c-1,3-Dichloropropene	7.350	75	71881	21.47	ug/L		98

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050112.D
Acq On : 1 May 2020 7:32 pm
Operator : PS/TNL
Sample : 0E01047-CAL8
Misc : 1X 5mL 20 PPB VOCRO
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:25 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

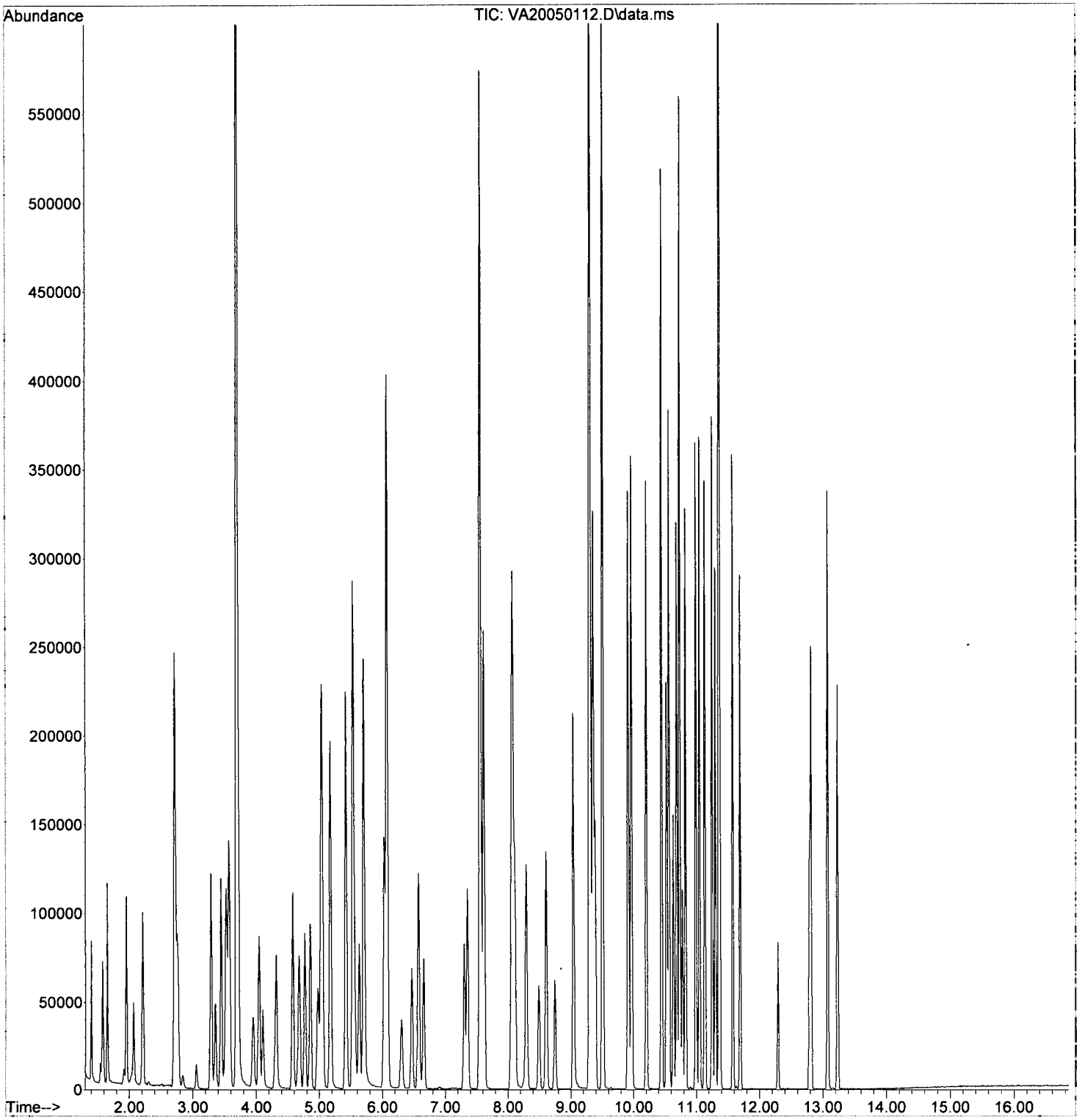
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49) Toluene	7.611	91	215065	20.85	ug/L		98
50) Tetrachloroethene (PCE)	8.055	166	44523	19.98	ug/L		96
51) 4-Methyl-2-Pentanone (...	8.074	43	198938	50.85	ug/L		98
52) t-1,3-Dichloropropene	8.110	75	66060	22.19	ug/L		97
53) 1,1,2-Trichloroethane	8.287	97	48077	21.87	ug/L		95
54) Dibromochloromethane	8.487	129	37481	20.32	ug/L		99
55) 1,3-Dichloropropane	8.603	76	89646	23.11	ug/L		95
56) 1,2-Dibromoethane (EDB)	8.743	107	48257	21.95	ug/L		98
57) 2-Hexanone	9.035	43	151411	48.87	ug/L		97
58) Chlorobenzene	9.315	112	132090	20.60	ug/L		95
59) Ethylbenzene	9.357	91	233605	21.87	ug/L		99
60) 1,1,1,2-Tetrachloroethane	9.388	131	39515	20.60	ug/L		99
61) m,p-Xylenes (2)	9.503	91	344549	44.07	ug/L		98
62) o-Xylene	9.911	91	174261	22.13	ug/L		97
63) Styrene	9.966	104	139802	22.00	ug/L		98
64) Bromoform	9.972	173	25504	18.63	ug/L		96
65) Isopropylbenzene	10.203	105	214881	22.29	ug/L		98
68) Bromobenzene	10.525	156	53243	20.89	ug/L		87
69) n-Propylbenzene	10.562	91	253278	22.98	ug/L		95
70) 1,1,2,2-Tetrachloroethane	10.629	83	68008	23.02	ug/L		96
71) 2-Chlorotoluene	10.683	126	49268	21.95	ug/L		90
72) 1,3,5-Trimethylbenzene	10.732	105	169602	23.27	ug/L		94
73) 1,2,3-Trichloropropane	10.732	110	25379	23.45	ug/L		92
74) t-1,4-Dichloro-2-butene	10.775	88	7849	18.60	ug/L	#	77
75) 4-Chlorotoluene	10.823	91	154315	22.61	ug/L		96
76) tert-Butylbenzene	10.988	91	94374	22.86	ug/L		95
77) 1,2,4-Trimethylbenzene	11.048	105	170486	23.56	ug/L		98
78) sec-Butylbenzene	11.134	105	213565	22.95	ug/L		98
79) 4-Isopropyltoluene	11.249	119	177293	23.02	ug/L		100
80) 1,3-Dichlorobenzene	11.298	146	97504	21.37	ug/L		97
81) 1,4-Dichlorobenzene	11.371	146	100849	21.29	ug/L		96
82) n-Butylbenzene	11.572	91	161070	24.04	ug/L		95
83) 1,2-Dichlorobenzene	11.693	146	95928	21.38	ug/L		98
84) 1,2-Dibromo-3-Chloropr...	12.290	157	16133	19.14	ug/L	#	65
85) Hexachlorobutadiene	12.788	223	14319	20.68	ug/L		96
86) 1,2,4-Trichlorobenzene	12.813	180	63091	21.41	ug/L		97
87) Naphthalene	13.074	128	217424	22.91	ug/L		98
88) 1,2,3-Trichlorobenzene	13.226	180	62525	21.31	ug/L		99

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050112.D
Acq On : 1 May 2020 7:32 pm
Operator : PS/TNL
Sample : 0E01047-CAL8
Misc : 1X 5mL 20 PPB VOCRO
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:25 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050112.D
Acq On : 1 May 2020 7:32 pm
Operator : PS/TNL
Sample : 0E01047-CAL8
Misc : 1X 5mL 20 PPB VOCRO
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Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

5/2/2020

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	5.531	99	110975	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	9.296	117	316682	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	11.359	152	156505	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	5.032	111	93314	48.59	ug/L		0.00
39) 1,4-Difluorobenzene (S)	6.072	114	349480	47.58	ug/L		0.00
48) Toluene-d8 (S)	7.557	98	418138	51.59	ug/L		0.00
67) 4-Bromofluorobenzene (S)	10.446	174	120565	48.87	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.402	85	44026	22.05	ug/L		99
3) Chloromethane	1.578	50	59002	21.19	ug/L		99
4) Vinyl Chloride	1.651	62	66549	25.14	ug/L		95
5) Bromomethane	1.956	96	49459	30.88	ug/L		96
6) Chloroethane	2.065	64	31338	27.02	ug/L		94
7) Trichlorofluoromethane	2.211	101	80115	26.63	ug/L		99
8) Ethanol	2.722	45	105531	1354.51	ug/L		91
9) 1,1-Dichloroethene	2.704	61	69346	23.97	ug/L		92
10) Carbon Disulfide	2.716	76	96907	19.36	ug/L		98
11) Freon 113	2.759	101	37518	20.12	ug/L		94
12) Iodomethane	2.838	142	8485	16.38	ug/L		88
13) Acrolein	3.057	56	11293	19.15	ug/L		96
14) Methylene Chloride	3.288	84	53531	20.64	ug/L		91
15) Acetone	3.355	43	60239	43.21	ug/L		98
16) t-1,2-Dichloroethene	3.440	61	66791	21.53	ug/L		97
17) n-Hexane	3.519	86	9407	19.89	ug/L	#	81
18) Methyl-tert-butyl-ether	3.568	73	151575	20.02	ug/L		100
19) tert-Butanol (TBA)	3.695	59	848873	1251.79	ug/L	#	100
20) Diisopropyl ether (DIPE)	3.951	45	42253	5.29	ug/L		93
21) 1,1-Dichloroethane	4.042	63	90995	21.33	ug/L		98
22) Acrylonitrile	4.103	53	34433	22.55	ug/L		96
23) Vinyl Acetate	4.316	43	75051	16.67	ug/L		97
24) Ethyl-tert-butyl ether...	4.310	59	37157	5.13	ug/L		94
25) c-1,2-Dichloroethene	4.571	61	69485	22.14	ug/L		95
26) 2,2-Dichloropropane	4.675	77	49283	19.55	ug/L		83
27) Bromochloromethane	4.766	49	48854	23.71	ug/L		79
28) Chloroform	4.857	83	80521	21.49	ug/L		95
29) Carbon Tetrachloride	4.973	117	46497	20.10	ug/L		93
30) Tetrahydrofuran	5.020	42	29724	20.85	ug/L		97
31) 1,1,1-Trichloroethane	5.044	97	70669	20.48	ug/L		96
33) 1,1-Dichloropropene	5.172	75	65530	21.10	ug/L		95
34) 2-Butanone (MEK)	5.172	43	104306	47.25	ug/L		95
35) Benzene	5.415	78	211881	20.43	ug/L		99
36) tert-Amyl methyl ether...	5.561	73	33018	4.65	ug/L		95
37) 1,2-Dichloroethane (EDC)	5.628	62	67337	23.25	ug/L		99
38) iso-Butyl Alcohol	5.701	43	170427	563.71	ug/L		98
40) Trichloroethene (TCE)	6.024	130	50998	20.74	ug/L		94
41) tert-Amyl ethyl ether ...	6.297	59	25508	4.87	ug/L		88
42) Dibromomethane	6.462	93	30077	20.95	ug/L		89
43) 1,2-Dichloropropane	6.571	63	55670	21.46	ug/L		93
44) Bromodichloromethane	6.656	83	53754	21.71	ug/L		97
46) 2-Chloroethyl Vinyl Ether	7.301	63	39695	21.55	ug/L	#	1
47) c-1,3-Dichloropropene	7.350	75	71881	21.47	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050112.D
Acq On : 1 May 2020 7:32 pm
Operator : PS/TNL
Sample : 0E01047-CAL8
Misc : 1X 5mL 20 PPB VOCRO
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:25 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
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Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49) Toluene	7.611	91	215065	20.85	ug/L		98
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51) 4-Methyl-2-Pentanone (...	8.074	43	198938	50.85	ug/L		98
52) t-1,3-Dichloropropene	8.110	75	66060	22.19	ug/L		97
53) 1,1,2-Trichloroethane	8.287	97	48077	21.87	ug/L		95
54) Dibromochloromethane	8.487	129	37481	20.32	ug/L		99
55) 1,3-Dichloropropane	8.603	76	89646	23.11	ug/L		95
56) 1,2-Dibromoethane (EDB)	8.743	107	48257	21.95	ug/L		98
57) 2-Hexanone	9.035	43	151411	48.87	ug/L		97
58) Chlorobenzene	9.315	112	132090	20.60	ug/L		95
59) Ethylbenzene	9.357	91	233605	21.87	ug/L		99
60) 1,1,1,2-Tetrachloroethane	9.388	131	39515	20.60	ug/L		99
61) m,p-Xylenes (2)	9.503	91	344549	44.07	ug/L		98
62) o-Xylene	9.911	91	174261	22.13	ug/L		97
63) Styrene	9.966	104	139802	22.00	ug/L		98
64) Bromoform	9.972	173	25504	18.63	ug/L		96
65) Isopropylbenzene	10.203	105	214881	22.29	ug/L		98
68) Bromobenzene	10.525	156	53243	20.89	ug/L		87
69) n-Propylbenzene	10.562	91	253278	22.98	ug/L		95
70) 1,1,2,2-Tetrachloroethane	10.629	83	68008	23.02	ug/L		96
71) 2-Chlorotoluene	10.683	126	49268	21.95	ug/L		90
72) 1,3,5-Trimethylbenzene	10.732	105	169602	23.27	ug/L		94
73) 1,2,3-Trichloropropane	10.732	110	25379	23.45	ug/L		92
74) t-1,4-Dichloro-2-butene	10.775	88	7849	18.60	ug/L	#	77
75) 4-Chlorotoluene	10.823	91	154315	22.61	ug/L		96
76) tert-Butylbenzene	10.988	91	94374	22.86	ug/L		95
77) 1,2,4-Trimethylbenzene	11.048	105	170486	23.56	ug/L		98
78) sec-Butylbenzene	11.134	105	213565	22.95	ug/L		98
79) 4-Isopropyltoluene	11.249	119	177293	23.02	ug/L		100
80) 1,3-Dichlorobenzene	11.298	146	97504	21.37	ug/L		97
81) 1,4-Dichlorobenzene	11.371	146	100849	21.29	ug/L		96
82) n-Butylbenzene	11.572	91	161070	24.04	ug/L		95
83) 1,2-Dichlorobenzene	11.693	146	95928	21.38	ug/L		98
84) 1,2-Dibromo-3-Chloropr...	12.290	157	16133	19.14	ug/L	#	65
85) Hexachlorobutadiene	12.788	223	14319	20.68	ug/L		96
86) 1,2,4-Trichlorobenzene	12.813	180	63091	21.41	ug/L		97
87) Naphthalene	13.074	128	217424	22.91	ug/L		98
88) 1,2,3-Trichlorobenzene	13.226	180	62525	21.31	ug/L		99

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050113.D
Acq On : 1 May 2020 7:59 pm
Operator : PS/TNL
Sample : 0E01047-CAL9
Misc : 1X 5mL 50 PPB VOCRO
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:27 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	5.531	99	116622	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	9.297	117	337507	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	11.359	152	172652	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	5.032	111	102924	51.00	ug/L		0.00
39) 1,4-Difluorobenzene (S)	6.073	114	371255	48.09	ug/L		0.00
48) Toluene-d8 (S)	7.557	98	440763	51.03	ug/L		0.00
67) 4-Bromofluorobenzene (S)	10.441	174	130258	47.86	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.402	85	114330	54.48	ug/L		99
3) Chloromethane	1.584	50	153120	52.32	ug/L		99
4) Vinyl Chloride	1.651	62	165301	59.42	ug/L		95
5) Bromomethane	1.955	96	114309	67.90	ug/L		99
6) Chloroethane	2.071	64	84831	88.89	ug/L		98
7) Trichlorofluoromethane	2.217	101	187150	59.20	ug/L		99
8) Ethanol	2.716	45	217951	2661.98	ug/L		93
9) 1,1-Dichloroethene	2.704	61	179095	58.92	ug/L		91
10) Carbon Disulfide	2.716	76	263368	50.07	ug/L		98
11) Freon 113	2.758	101	95507	48.74	ug/L		93
12) Iodomethane	2.837	142	45333	45.36	ug/L		91
13) Acrolein	3.056	56	32154	51.88	ug/L		99
14) Methylene Chloride	3.288	84	125345	45.99	ug/L		90
15) Acetone	3.348	43	143830	98.18	ug/L		99
16) t-1,2-Dichloroethene	3.440	61	170944	52.43	ug/L		94
17) n-Hexane	3.525	86	23038	46.35	ug/L	#	66
18) Methyl-tert-butyl-ether	3.567	73	391807	49.25	ug/L		99
19) tert-Butanol (TBA)	3.695	59	1831951	2570.67	ug/L	#	97
20) Diisopropyl ether (DIPE)	3.945	45	86567	10.32	ug/L		91
21) 1,1-Dichloroethane	4.042	63	229860	51.28	ug/L		99
22) Acrylonitrile	4.103	53	87664	54.53	ug/L		97
23) Vinyl Acetate	4.316	43	246375	52.08	ug/L		97
24) Ethyl-tert-butyl ether...	4.304	59	72862	9.57	ug/L		94
25) c-1,2-Dichloroethene	4.577	61	175765	53.80	ug/L		97
26) 2,2-Dichloropropane	4.675	77	129958	49.05	ug/L		85
27) Bromochloromethane	4.766	49	120012	55.42	ug/L		80
28) Chloroform	4.851	83	205881	52.28	ug/L		94
29) Carbon Tetrachloride	4.973	117	127948	52.63	ug/L		93
30) Tetrahydrofuran	5.014	42	69716	46.53	ug/L		98
31) 1,1,1-Trichloroethane	5.045	97	180323	49.73	ug/L		98
33) 1,1-Dichloropropene	5.172	75	164217	50.32	ug/L		96
34) 2-Butanone (MEK)	5.166	43	261092	112.56	ug/L		96
35) Benzene	5.416	78	533777	48.97	ug/L		98
36) tert-Amyl methyl ether...	5.562	73	65878	8.84	ug/L		94
37) 1,2-Dichloroethane (EDC)	5.629	62	166593	54.73	ug/L		99
38) iso-Butyl Alcohol	5.695	43	454738	1431.26	ug/L		97
40) Trichloroethene (TCE)	6.024	130	125032	48.39	ug/L		96
41) tert-Amyl ethyl ether ...	6.298	59	51938	9.43	ug/L		88
42) Dibromomethane	6.462	93	76242	50.53	ug/L		90
43) 1,2-Dichloropropane	6.571	63	140883	51.68	ug/L		93
44) Bromodichloromethane	6.657	83	145382	55.87	ug/L		98
46) 2-Chloroethyl Vinyl Ether	7.301	63	104699	53.33	ug/L	#	1
47) c-1,3-Dichloropropene	7.350	75	194091	54.39	ug/L		99

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050113.D
Acq On : 1 May 2020 7:59 pm
Operator : PS/TNL
Sample : 0E01047-CAL9
Misc : 1X 5mL 50 PPB VOCRO
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:27 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

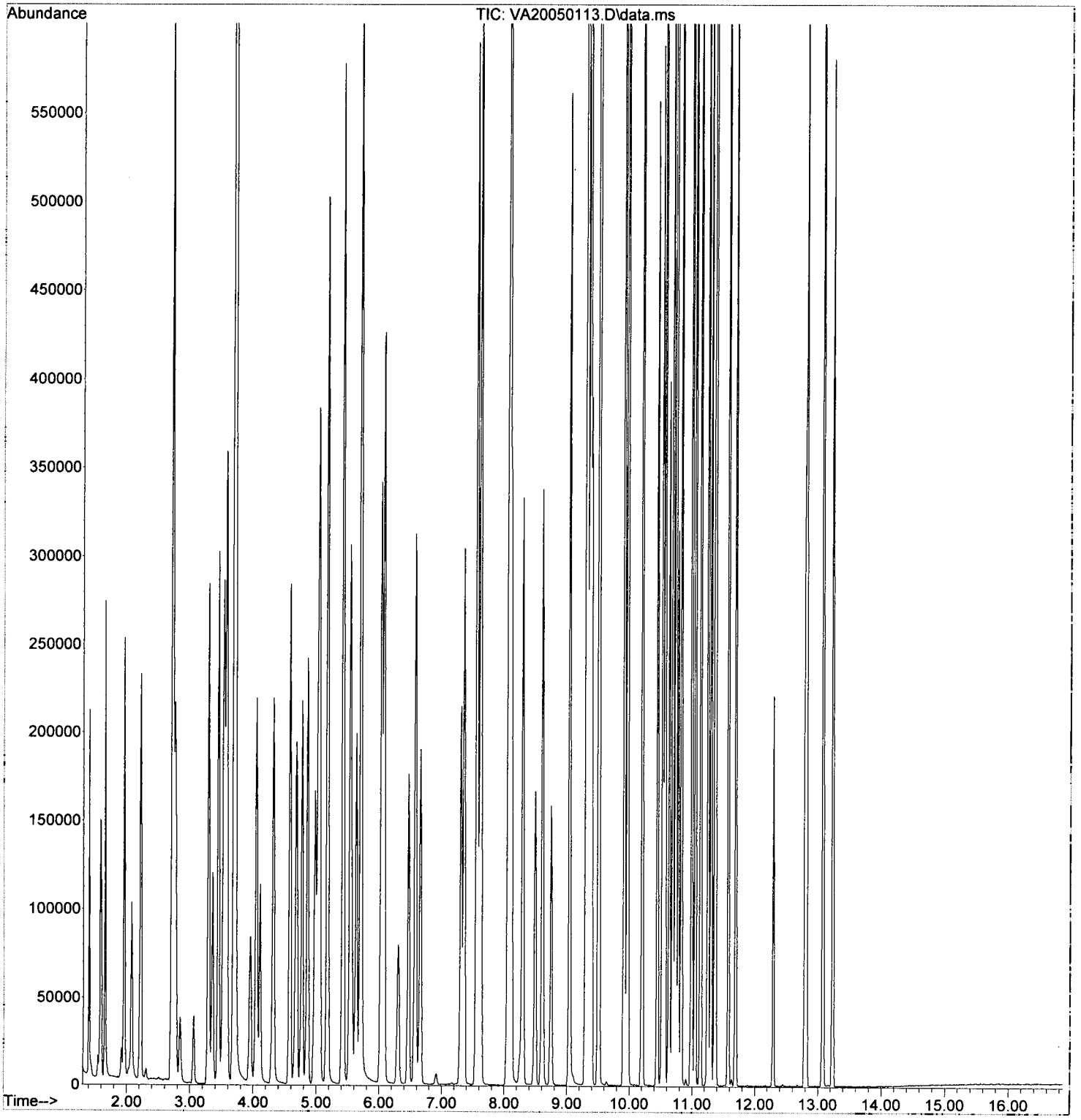
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49) Toluene	7.612	91	545627	49.64	ug/L		98
50) Tetrachloroethene (PCE)	8.050	166	111941	47.12	ug/L		92
51) 4-Methyl-2-Pentanone (...	8.074	43	513286	123.10	ug/L		99
52) t-1,3-Dichloropropene	8.104	75	181908	57.34	ug/L		97
53) 1,1,2-Trichloroethane	8.287	97	122721	52.38	ug/L		97
54) Dibromochloromethane	8.488	129	103836	49.80	ug/L		99
55) 1,3-Dichloropropane	8.603	76	223627	54.10	ug/L		96
56) 1,2-Dibromoethane (EDB)	8.743	107	122596	50.93	ug/L		99
57) 2-Hexanone	9.035	43	391377	118.53	ug/L		98
58) Chlorobenzene	9.315	112	332680	48.68	ug/L		96
59) Ethylbenzene	9.352	91	587743	51.64	ug/L		98
60) 1,1,1,2-Tetrachloroethane	9.388	131	106034	49.72	ug/L		98
61) m,p-Xylenes (2)	9.504	91	876770	105.22	ug/L		98
62) o-Xylene	9.911	91	445380	53.07	ug/L		97
63) Styrene	9.960	104	367477	54.25	ug/L		98
64) Bromoform	9.972	173	77103	48.13	ug/L		98
65) Isopropylbenzene	10.203	105	541333	52.69	ug/L		98
68) Bromobenzene	10.526	156	136109	48.40	ug/L		90
69) n-Propylbenzene	10.562	91	637577	52.43	ug/L		95
70) 1,1,2,2-Tetrachloroethane	10.629	83	180075	55.26	ug/L		97
71) 2-Chlorotoluene	10.684	126	126487	51.09	ug/L		91
72) 1,3,5-Trimethylbenzene	10.733	105	435306	54.14	ug/L		94
73) 1,2,3-Trichloropropane	10.733	110	64463	53.99	ug/L		92
74) t-1,4-Dichloro-2-butene	10.775	88	22692	48.74	ug/L	#	79
75) 4-Chlorotoluene	10.824	91	396126	52.61	ug/L		95
76) tert-Butylbenzene	10.988	91	238115	52.27	ug/L		96
77) 1,2,4-Trimethylbenzene	11.049	105	435602	54.57	ug/L		99
78) sec-Butylbenzene	11.128	105	541445	52.75	ug/L		96
79) 4-Isopropyltoluene	11.250	119	448886	52.83	ug/L		100
80) 1,3-Dichlorobenzene	11.298	146	249685	49.61	ug/L		98
81) 1,4-Dichlorobenzene	11.371	146	255131	48.82	ug/L		98
82) n-Butylbenzene	11.572	91	405867	54.91	ug/L		96
83) 1,2-Dichlorobenzene	11.694	146	246395	49.79	ug/L		98
84) 1,2-Dibromo-3-Chloropr...	12.290	157	46313	49.82	ug/L		76
85) Hexachlorobutadiene	12.789	223	35386	46.32	ug/L		98
86) 1,2,4-Trichlorobenzene	12.813	180	161483	49.68	ug/L		97
87) Naphthalene	13.075	128	567493	54.19	ug/L		99
88) 1,2,3-Trichlorobenzene	13.227	180	159617	49.32	ug/L		97

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050113.D
Acq On : 1 May 2020 7:59 pm
Operator : PS/TNL
Sample : 0E01047-CAL9
Misc : 1X 5mL 50 PPB VOCRO
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:27 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050113.D
Acq On : 1 May 2020 7:59 pm
Operator : PS/TNL
Sample : 0E01047-CAL9
Misc : 1X 5mL 50 PPB VOCRO
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:27 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

5/2/2020

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	5.531	99	116622	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	9.297	117	337507	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	11.359	152	172652	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	5.032	111	102924	51.00	ug/L		0.00
39) 1,4-Difluorobenzene (S)	6.073	114	371255	48.09	ug/L		0.00
48) Toluene-d8 (S)	7.557	98	440763	51.03	ug/L		0.00
67) 4-Bromofluorobenzene (S)	10.441	174	130258	47.86	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.402	85	114330	54.48	ug/L		99
3) Chloromethane	1.584	50	153120	52.32	ug/L		99
4) Vinyl Chloride	1.651	62	165301	59.42	ug/L		95
5) Bromomethane	1.955	96	114309	67.90	ug/L		99
6) Chloroethane	2.071	64	84831	88.89	ug/L		98
7) Trichlorofluoromethane	2.217	101	187150	59.20	ug/L		99
8) Ethanol	2.716	45	217951	2661.98	ug/L		93
9) 1,1-Dichloroethene	2.704	61	179095	58.92	ug/L		91
10) Carbon Disulfide	2.716	76	263368	50.07	ug/L		98
11) Freon 113	2.758	101	95507	48.74	ug/L		93
12) Iodomethane	2.837	142	45333	45.36	ug/L		91
13) Acrolein	3.056	56	32154	51.88	ug/L		99
14) Methylene Chloride	3.288	84	125345	45.99	ug/L		90
15) Acetone	3.348	43	143830	98.18	ug/L		99
16) t-1,2-Dichloroethene	3.440	61	170944	52.43	ug/L		94
17) n-Hexane	3.525	86	23038	46.35	ug/L	#	66
18) Methyl-tert-butyl-ether	3.567	73	391807	49.25	ug/L		99
19) tert-Butanol (TBA)	3.695	59	1831951	2570.67	ug/L	#	97
20) Diisopropyl ether (DIPE)	3.945	45	86567	10.32	ug/L		91
21) 1,1-Dichloroethane	4.042	63	229860	51.28	ug/L		99
22) Acrylonitrile	4.103	53	87664	54.63	ug/L		97
23) Vinyl Acetate	4.316	43	246375	52.08	ug/L		97
24) Ethyl-tert-butyl ether...	4.304	59	72862	9.57	ug/L		94
25) c-1,2-Dichloroethene	4.577	61	175765	53.30	ug/L		97
26) 2,2-Dichloropropane	4.675	77	129958	49.05	ug/L		85
27) Bromochloromethane	4.766	49	120012	55.42	ug/L		80
28) Chloroform	4.851	83	205881	52.28	ug/L		94
29) Carbon Tetrachloride	4.973	117	127948	52.63	ug/L		93
30) Tetrahydrofuran	5.014	42	69716	46.53	ug/L		98
31) 1,1,1-Trichloroethane	5.045	97	180323	49.73	ug/L		98
33) 1,1-Dichloropropene	5.172	75	164217	50.32	ug/L		96
34) 2-Butanone (MEK)	5.166	43	261092	112.56	ug/L		96
35) Benzene	5.416	78	533777	48.97	ug/L		98
36) tert-Amyl methyl ether...	5.562	73	65878	8.84	ug/L		94
37) 1,2-Dichloroethane (EDC)	5.629	62	166593	54.73	ug/L		99
38) iso-Butyl Alcohol	5.695	43	454738	1431.26	ug/L		97
40) Trichloroethene (TCE)	6.024	130	125032	48.39	ug/L		96
41) tert-Amyl ethyl ether ...	6.298	59	51938	9.43	ug/L		88
42) Dibromomethane	6.462	93	76242	50.53	ug/L		90
43) 1,2-Dichloropropane	6.571	63	140883	51.68	ug/L		93
44) Bromodichloromethane	6.657	83	145382	55.87	ug/L		98
46) 2-Chloroethyl Vinyl Ether	7.301	63	104699	53.33	ug/L	#	1
47) c-1,3-Dichloropropene	7.350	75	194091	54.39	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050113.D
Acq On : 1 May 2020 7:59 pm
Operator : PS/TNL
Sample : 0E01047-CAL9
Misc : 1X 5mL 50 PPB VOCRO
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:27 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49) Toluene	7.612	91	545627	49.64	ug/L		98
50) Tetrachloroethene (PCE)	8.050	166	111941	47.12	ug/L		92
51) 4-Methyl-2-Pentanone (...	8.074	43	513286	123.10	ug/L		99
52) t-1,3-Dichloropropene	8.104	75	181908	57.34	ug/L		97
53) 1,1,2-Trichloroethane	8.287	97	122721	52.38	ug/L		97
54) Dibromochloromethane	8.488	129	103836	49.80	ug/L		99
55) 1,3-Dichloropropane	8.603	76	223627	54.10	ug/L		96
56) 1,2-Dibromoethane (EDB)	8.743	107	122596	50.93	ug/L		99
57) 2-Hexanone	9.035	43	391377	118.53	ug/L		98
58) Chlorobenzene	9.315	112	332680	48.68	ug/L		96
59) Ethylbenzene	9.352	91	587743	51.64	ug/L		98
60) 1,1,1,2-Tetrachloroethane	9.388	131	106034	49.72	ug/L		98
61) m,p-Xylenes (2)	9.504	91	876770	105.22	ug/L		98
62) o-Xylene	9.911	91	445380	53.07	ug/L		97
63) Styrene	9.960	104	367477	54.25	ug/L		98
64) Bromoform	9.972	173	77103	48.13	ug/L		98
65) Isopropylbenzene	10.203	105	541333	52.59	ug/L		98
68) Bromobenzene	10.526	156	136109	48.40	ug/L		90
69) n-Propylbenzene	10.562	91	637577	52.43	ug/L		95
70) 1,1,2,2-Tetrachloroethane	10.629	83	180075	55.26	ug/L		97
71) 2-Chlorotoluene	10.684	126	126487	51.09	ug/L		91
72) 1,3,5-Trimethylbenzene	10.733	105	435306	54.14	ug/L		94
73) 1,2,3-Trichloropropane	10.733	110	64463	53.99	ug/L		92
74) t-1,4-Dichloro-2-butene	10.775	88	22692	48.74	ug/L	#	79
75) 4-Chlorotoluene	10.824	91	396126	52.61	ug/L		95
76) tert-Butylbenzene	10.988	91	238115	52.27	ug/L		96
77) 1,2,4-Trimethylbenzene	11.049	105	435602	54.57	ug/L		99
78) sec-Butylbenzene	11.128	105	541445	52.75	ug/L		96
79) 4-Isopropyltoluene	11.250	119	448886	52.83	ug/L		100
80) 1,3-Dichlorobenzene	11.298	146	249685	49.61	ug/L		98
81) 1,4-Dichlorobenzene	11.371	146	255131	48.82	ug/L		98
82) n-Butylbenzene	11.572	91	405867	54.91	ug/L		96
83) 1,2-Dichlorobenzene	11.694	146	246395	49.79	ug/L		98
84) 1,2-Dibromo-3-Chloropr...	12.290	157	46313	49.82	ug/L		76
85) Hexachlorobutadiene	12.789	223	35386	46.32	ug/L		98
86) 1,2,4-Trichlorobenzene	12.813	180	161483	49.68	ug/L		97
87) Naphthalene	13.075	128	567493	54.19	ug/L		99
88) 1,2,3-Trichlorobenzene	13.227	180	159617	49.32	ug/L		97

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050114.D
Acq On : 1 May 2020 8:27 pm
Operator : PS/TNL
Sample : 0E01047-IBLK3
Misc : 1X 5mL DI
ALS Vial : 14 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:16:57 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Sat May 02 09:01:18 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) Pentafluorobenzene (I)	5.531	99	109838	50.00 ug/L		0.00
45) Chlorobenzene-d5 (I)	9.297	117	311061	50.00 ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	11.359	152	145440	50.00 ug/L		0.00
System Monitoring Compounds						
32) Dibromofluoromethane (S)	5.033	111	89088	48.06 ug/L		0.00
39) 1,4-Difluorobenzene (S)	6.073	114	346363	49.81 ug/L		0.00
48) Toluene-d8 (S)	7.557	98	409575	50.03 ug/L		0.00
67) 4-Bromofluorobenzene (S)	10.447	174	113658	51.10 ug/L		0.00
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.404	85	314	0.15 ug/L		76
3) Chloromethane	1.575	50	191	0.06 ug/L	#	50
4) Vinyl Chloride	1.654	62	196	0.06 ug/L	#	29
5) Bromomethane	1.958	96	85	0.03 ug/L		81
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	2.232	101	341	0.09 ug/L	#	27
8) Ethanol	2.712	45	576	6.72 ug/L	#	29
9) 1,1-Dichloroethene	2.712	61	353	0.10 ug/L	#	68
10) Carbon Disulfide	2.718	76	1920	0.40 ug/L		72
11) Freon 113	2.755	101	65	0.04 ug/L	#	16
12) Iodomethane	0.000		0	N.D.		
13) Acrolein	0.000		0	N.D.		
14) Methylene Chloride	3.284	84	9348	3.46 ug/L		83
15) Acetone	3.357	43	2565	1.70 ug/L		100
16) t-1,2-Dichloroethene	3.448	61	645	0.19 ug/L		76
17) n-Hexane	0.000		0	N.D.		
18) Methyl-tert-butyl-ether	0.000		0	N.D.		
19) tert-Butanol (TBA)	3.698	59	1092	1.75 ug/L	#	85
20) Diisopropyl ether (DIPE)	0.000		0	N.D.		
21) 1,1-Dichloroethane	0.000		0	N.D.		
22) Acrylonitrile	0.000		0	N.D.		
23) Vinyl Acetate	0.000		0	N.D.		
24) Ethyl-tert-butyl ether...	0.000		0	N.D.		
25) c-1,2-Dichloroethene	4.574	61	121	0.04 ug/L	#	18
26) 2,2-Dichloropropane	0.000		0	N.D.		
27) Bromochloromethane	0.000		0	N.D.		
28) Chloroform	0.000		0	N.D.		
29) Carbon Tetrachloride	0.000		0	N.D.		
30) Tetrahydrofuran	5.020	42	98	0.07 ug/L	#	30
31) 1,1,1-Trichloroethane	0.000		0	N.D.		
33) 1,1-Dichloropropene	5.173	75	518	0.16 ug/L	#	39
34) 2-Butanone (MEK)	0.000		0	N.D.		
35) Benzene	5.428	78	481	0.04 ug/L		56
36) tert-Amyl methyl ether...	5.525	73	91	0.01 ug/L	#	1
37) 1,2-Dichloroethane (EDC)	0.000		0	N.D.		
38) iso-Butyl Alcohol	0.000		0	N.D.		
40) Trichloroethene (TCE)	6.030	130	251	0.10 ug/L	#	71
41) tert-Amyl ethyl ether ...	0.000		0	N.D.		
42) Dibromomethane	0.000		0	N.D.		
43) 1,2-Dichloropropane	0.000		0	N.D.		
44) Bromodichloromethane	0.000		0	N.D.		
46) 2-Chloroethyl Vinyl Ether	0.000		0	N.D.		
47) c-1,3-Dichloropropene	7.369	75	37	0.01 ug/L	#	33

NR 5/2/2020

Quantitation Report (Not Reviewed)

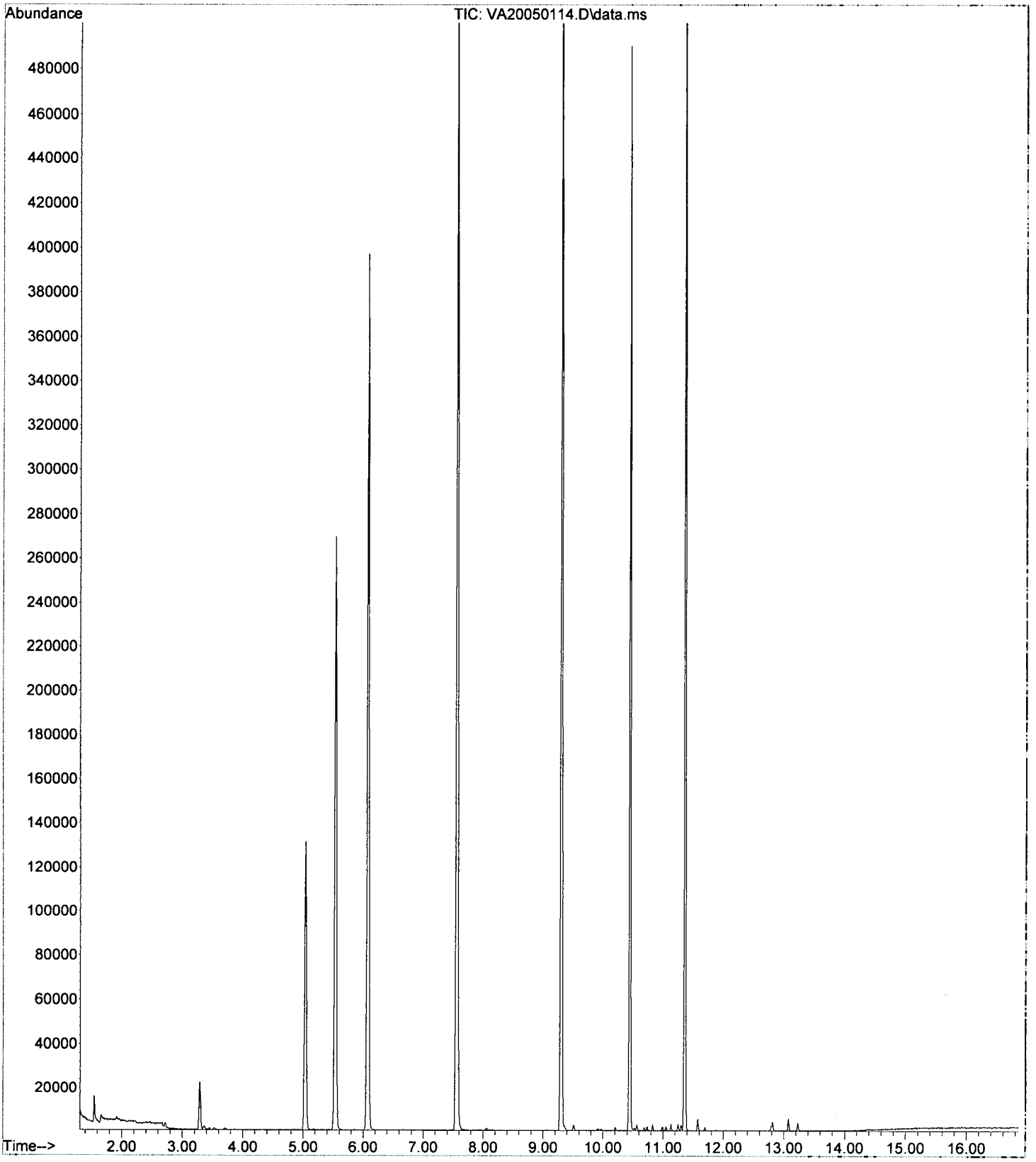
Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050114.D
Acq On : 1 May 2020 8:27 pm
Operator : PS/TNL
Sample : 0E01047-IBLK3
Misc : 1X 5mL DI
ALS Vial : 14 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:16:57 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Sat May 02 09:01:18 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
49) Toluene	7.612	91	902	0.08 ug/L	84
50) Tetrachloroethene (PCE)	8.044	166	532	0.24 ug/L #	63
51) 4-Methyl-2-Pentanone (...	8.080	43	78	0.02 ug/L #	43
52) t-1,3-Dichloropropene	8.123	75	39	0.58 ug/L #	45
53) 1,1,2-Trichloroethane	0.000		0	N.D.	
54) Dibromochloromethane	0.000		0	N.D.	
55) 1,3-Dichloropropane	0.000		0	N.D.	
56) 1,2-Dibromoethane (EDB)	0.000		0	N.D.	
57) 2-Hexanone	9.060	43	272	0.08 ug/L #	32
58) Chlorobenzene	9.315	112	675	0.10 ug/L #	19
59) Ethylbenzene	9.358	91	969	0.08 ug/L	81
60) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.	
61) m,p-Xylenes (2)	9.510	91	2004	0.24 ug/L	97
62) o-Xylene	9.918	91	627	0.08 ug/L	72
63) Styrene	9.966	104	465	0.07 ug/L	85
64) Bromoform	0.000		0	N.D.	
65) Isopropylbenzene	10.204	105	1226	0.12 ug/L	86
68) Bromobenzene	10.526	156	250	0.10 ug/L #	69
69) n-Propylbenzene	10.562	91	2277	0.20 ug/L	97
70) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.	
71) 2-Chlorotoluene	10.690	126	257	0.11 ug/L	93
72) 1,3,5-Trimethylbenzene	10.739	105	1156	0.15 ug/L	97
73) 1,2,3-Trichloropropane	0.000		0	N.D.	
74) t-1,4-Dichloro-2-butene	0.000		0	N.D.	
75) 4-Chlorotoluene	10.830	91	1318	0.18 ug/L	88
76) tert-Butylbenzene	10.988	91	632	0.15 ug/L #	71
77) 1,2,4-Trimethylbenzene	11.049	105	1330	0.18 ug/L	95
78) sec-Butylbenzene	11.134	105	2020	0.22 ug/L	96
79) 4-Isopropyltoluene	11.244	119	1806	0.24 ug/L	92
80) 1,3-Dichlorobenzene	11.299	146	994	0.22 ug/L	92
81) 1,4-Dichlorobenzene	11.372	146	1377	0.29 ug/L	89
82) n-Butylbenzene	11.578	91	2812	0.40 ug/L	95
83) 1,2-Dichlorobenzene	11.700	146	655	0.15 ug/L	79
84) 1,2-Dibromo-3-Chloropr...	0.000		0	N.D.	
85) Hexachlorobutadiene	12.789	223	291	0.47 ug/L #	70
86) 1,2,4-Trichlorobenzene	12.819	180	1338	0.46 ug/L	91
87) Naphthalene	13.075	128	4304	0.48 ug/L	91
88) 1,2,3-Trichlorobenzene	13.233	180	1136	0.40 ug/L	88

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

File :C:\msdchem\1\DATA\2020-05\0E01047\VA20050114.D
Operator : PS/TNL
Acquired : 1 May 2020 8:27 pm using AcqMethod VA2001RUN.M
Instrument : VOA-GCMS1
Sample Name: 0E01047-IBLK3
Misc Info : 1X 5mL DI
Vial Number: 14



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050115.D
Acq On : 1 May 2020 8:54 pm
Operator : PS/TNL
Sample : 0E01047-CALA
Misc : 1X 5mL 100 PPB VOCRO
ALS Vial : 15 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:29 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

5/2/2020

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	5.531	99	110919	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	9.296	117	324559	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	11.359	152	171584	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	5.032	111	98175	51.15	ug/L		0.00
39) 1,4-Difluorobenzene (S)	6.072	114	349305	47.58	ug/L		0.00
48) Toluene-d8 (S)	7.557	98	414456	49.90	ug/L		0.00
67) 4-Bromofluorobenzene (S)	10.440	174	124954	46.19	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.401	85	236641	118.56	ug/L		98
3) Chloromethane	1.578	50	317097	113.92	ug/L		100
4) Vinyl Chloride	1.651	62	342380	129.40	ug/L		94
5) Bromomethane	1.955	96	218528	136.49	ug/L		98
6) Chloroethane	2.064	64	143576	Below Cal			100
7) Trichlorofluoromethane	2.210	101	391092	130.06	ug/L		97
8) Ethanol	2.721	45	435279	5589.69	ug/L		91
9) 1,1-Dichloroethene	2.703	61	373113	129.05	ug/L		91
10) Carbon Disulfide	2.715	76	574442	114.83	ug/L		99
11) Freon 113	2.758	101	196624	105.50	ug/L		93
12) Iodomethane	2.843	142	131359	104.25	ug/L		93
13) Acrolein	3.056	56	67967	115.30	ug/L		94
14) Methylene Chloride	3.287	84	253627	97.84	ug/L		91
15) Acetone	3.348	43	290342	208.37	ug/L		99
16) t-1,2-Dichloroethene	3.439	61	356405	114.92	ug/L		97
17) n-Hexane	3.524	86	49293	104.28	ug/L	#	77
18) Methyl-tert-butyl-ether	3.567	73	815144	107.73	ug/L		99
19) tert-Butanol (TBA)	3.695	59	3745890	5526.66	ug/L	#	95
20) Diisopropyl ether (DIPE)	3.944	45	183480	22.99	ug/L		92
21) 1,1-Dichloroethane	4.042	63	475970	111.65	ug/L		99
22) Acrylonitrile	4.102	53	180648	118.36	ug/L		98
23) Vinyl Acetate	4.315	43	519167	115.38	ug/L		97
24) Ethyl-tert-butyl ether...	4.303	59	158707	21.92	ug/L		94
25) c-1,2-Dichloroethene	4.577	61	365944	116.67	ug/L		99
26) 2,2-Dichloropropane	4.674	77	273590	108.58	ug/L		88
27) Bromochloromethane	4.766	49	242731	117.85	ug/L		79
28) Chloroform	4.857	83	425160	113.51	ug/L		96
29) Carbon Tetrachloride	4.972	117	280150	121.17	ug/L		96
30) Tetrahydrofuran	5.014	42	139233	97.71	ug/L		99
31) 1,1,1-Trichloroethane	5.044	97	378192	109.67	ug/L		98
33) 1,1-Dichloropropene	5.172	75	346764	111.72	ug/L		95
34) 2-Butanone (MEK)	5.166	43	542244	245.78	ug/L		95
35) Benzene	5.415	78	1113497	107.42	ug/L		99
36) tert-Amyl methyl ether...	5.555	73	142245	20.06	ug/L		98
37) 1,2-Dichloroethane (EDC)	5.628	62	342265	118.23	ug/L		100
38) iso-Butyl Alcohol	5.701	43	952958	3153.60	ug/L		97
40) Trichloroethene (TCE)	6.024	130	264309	107.55	ug/L		95
41) tert-Amyl ethyl ether ...	6.297	59	111624	21.32	ug/L		89
42) Dibromomethane	6.462	93	161086	112.26	ug/L		87
43) 1,2-Dichloropropane	6.571	63	292484	112.81	ug/L		94
44) Bromodichloromethane	6.650	83	315805	127.61	ug/L		98
46) 2-Chloroethyl Vinyl Ether	7.301	63	224376	118.86	ug/L	#	1
47) c-1,3-Dichloropropene	7.350	75	416569	121.40	ug/L		99

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050115.D
Acq On : 1 May 2020 8:54 pm
Operator : PS/TNL
Sample : 0E01047-CALA
Misc : 1X 5mL 100 PPB VOCRO
ALS Vial : 15 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:29 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

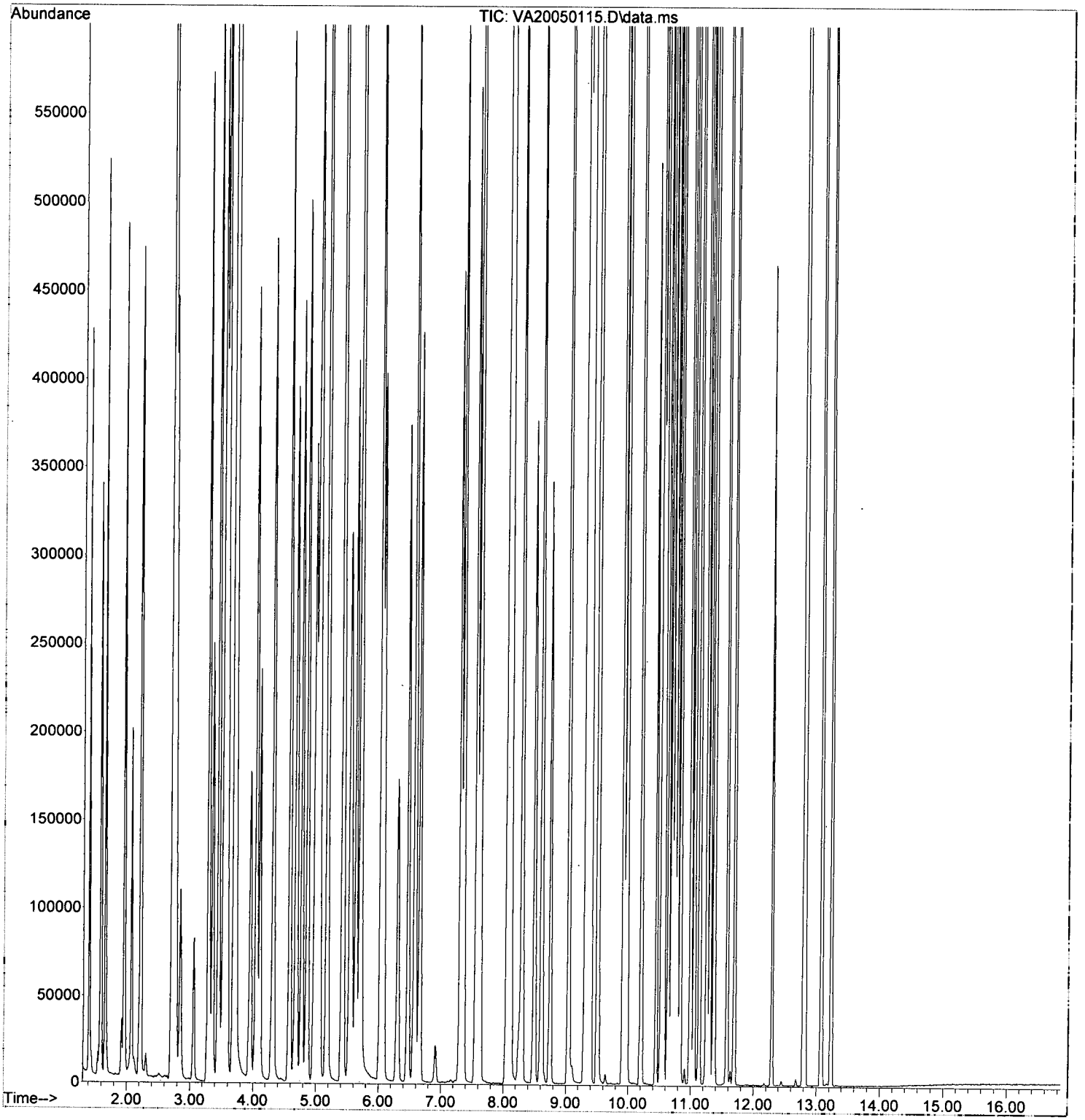
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49) Toluene	7.611	91	1149553	108.76	ug/L		99
50) Tetrachloroethene (PCE)	8.055	166	240547	105.30	ug/L		95
51) 4-Methyl-2-Pentanone (...	8.074	43	1073553	267.73	ug/L		100
52) t-1,3-Dichloropropene	8.104	75	395259	129.56	ug/L		96
53) 1,1,2-Trichloroethane	8.287	97	254688	113.04	ug/L		97
54) Dibromochloromethane	8.487	129	233426	106.46	ug/L		100
55) 1,3-Dichloropropane	8.603	76	469090	118.00	ug/L		97
56) 1,2-Dibromoethane (EDB)	8.743	107	257735	106.29	ug/L		97
57) 2-Hexanone	9.035	43	817651	257.50	ug/L		99
58) Chlorobenzene	9.315	112	716373	109.01	ug/L		98
59) Ethylbenzene	9.351	91	1267193	115.77	ug/L		99
60) 1,1,1,2-Tetrachloroethane	9.388	131	234754	106.47	ug/L		99
61) m,p-Xylenes (2)	9.503	91	1922162	239.87	ug/L		98
62) o-Xylene	9.911	91	968329	120.00	ug/L		97
63) Styrene	9.960	104	827008	126.97	ug/L		98
64) Bromoform	9.972	173	184925	105.22	ug/L		98
65) Isopropylbenzene	10.203	105	1181912	119.62	ug/L		98
68) Bromobenzene	10.525	156	297732	106.53	ug/L		90
69) n-Propylbenzene	10.562	91	1385584	114.65	ug/L		97
70) 1,1,2,2-Tetrachloroethane	10.629	83	375668	115.99	ug/L		96
71) 2-Chlorotoluene	10.684	126	276093	112.21	ug/L		92
72) 1,3,5-Trimethylbenzene	10.732	105	953843	119.37	ug/L		95
73) 1,2,3-Trichloropropane	10.732	110	137041	115.50	ug/L		93
74) t-1,4-Dichloro-2-butene	10.775	88	51654	111.63	ug/L	#	87
75) 4-Chlorotoluene	10.823	91	844429	112.84	ug/L		96
76) tert-Butylbenzene	10.988	91	518385	114.51	ug/L		96
77) 1,2,4-Trimethylbenzene	11.049	105	957241	120.67	ug/L		98
78) sec-Butylbenzene	11.134	105	1172498	114.94	ug/L		99
79) 4-Isopropyltoluene	11.249	119	988573	117.06	ug/L		99
80) 1,3-Dichlorobenzene	11.298	146	541283	108.21	ug/L		98
81) 1,4-Dichlorobenzene	11.371	146	557052	107.26	ug/L		98
82) n-Butylbenzene	11.572	91	894213	121.73	ug/L		95
83) 1,2-Dichlorobenzene	11.693	146	527455	107.25	ug/L		98
84) 1,2-Dibromo-3-Chloropr...	12.290	157	99437	107.63	ug/L		79
85) Hexachlorobutadiene	12.788	223	77176	101.65	ug/L		97
86) 1,2,4-Trichlorobenzene	12.813	180	348073	107.75	ug/L		97
87) Naphthalene	13.074	128	1180224	113.41	ug/L		99
88) 1,2,3-Trichlorobenzene	13.226	180	337071	104.79	ug/L		98

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050115.D
Acq On : 1 May 2020 8:54 pm
Operator : PS/TNL
Sample : 0E01047-CALA
Misc : 1X 5mL 100 PPB VOCRO
ALS Vial : 15 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:29 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050117.D
Acq On : 1 May 2020 9:48 pm
Operator : PS/TNL
Sample : 0E01047-CALB
Misc : 1X 5mL 200 PPB VOCRO
ALS Vial : 17 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 08:15:54 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (I)	5.531	99	113965	50.00 ug/L	0.00
45) Chlorobenzene-d5 (I)	9.303	117	347005	50.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4...	11.359	152	178572	50.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane (S)	5.032	111	107270	54.39 ug/L	0.00
39) 1,4-Difluorobenzene (S)	6.072	114	367417	48.71 ug/L	0.00
48) Toluene-d8 (S)	7.557	98	432774	48.73 ug/L	0.00
67) 4-Bromofluorobenzene (S)	10.446	174	129748	46.09 ug/L	0.00
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.401	85	485999	236.98 ug/L	97
3) Chloromethane	1.578	50	633864	221.64 ug/L	100
4) Vinyl Chloride	1.651	62	690742	254.09 ug/L	94
5) Bromomethane	1.955	96	412776	250.92 ug/L	99
6) Chloroethane	2.064	64	246751m	Below Cal	
7) Trichlorofluoromethane	2.204	101	789335	255.49 ug/L	98
8) Ethanol	2.715	45	4081	51.01 ug/L #	1
9) 1,1-Dichloroethene	2.703	61	783024	263.60 ug/L	93
10) Carbon Disulfide	2.715	76	1211657	235.73 ug/L	99
11) Freon 113	2.758	101	424235	221.54 ug/L	94
12) Iodomethane	2.837	142	315964	192.12 ug/L	93
13) Acrolein	3.056	56	145519	240.26 ug/L	98
14) Methylene Chloride	3.287	84	511315	191.97 ug/L	92
15) Acetone	3.348	43	585368	408.88 ug/L	99
16) t-1,2-Dichloroethene	3.439	61	735845	230.93 ug/L	97
17) n-Hexane	3.524	86	106769	219.83 ug/L #	75
18) Methyl-tert-butyl-ether	3.567	73	1710060	219.97 ug/L	100
19) tert-Butanol (TBA)	0.000		0	N.D. d	
20) Diisopropyl ether (DIPE)	0.000		0	N.D. d	
21) 1,1-Dichloroethane	4.042	63	971437	221.79 ug/L	99
22) Acrylonitrile	4.102	53	364823	232.65 ug/L	98
23) Vinyl Acetate	4.309	43	1031416	223.11 ug/L	97
24) Ethyl-tert-butyl ether...	0.000		0	N.D. d	
25) c-1,2-Dichloroethene	4.571	61	754144	234.01 ug/L	97
26) 2,2-Dichloropropane	4.674	77	571169	220.62 ug/L	92
27) Bromochloromethane	4.765	49	485408	229.38 ug/L	81
28) Chloroform	4.851	83	872869	226.81 ug/L	96
29) Carbon Tetrachloride	4.972	117	616955	259.72 ug/L	96
30) Tetrahydrofuran	5.014	42	279297	190.76 ug/L	98
31) 1,1,1-Trichloroethane	5.044	97	794089	224.11 ug/L	97
33) 1,1-Dichloropropene	5.166	75	731692	229.44 ug/L	94
34) 2-Butanone (MEK)	5.166	43	1113997	491.45 ug/L	97
35) Benzene	5.415	78	2283967	214.44 ug/L	99
36) tert-Amyl methyl ether...	0.000		0	N.D. d	
37) 1,2-Dichloroethane (EDC)	5.628	62	702335	236.12 ug/L	100
38) iso-Butyl Alcohol	5.701	43	1915085	6168.16 ug/L	96
40) Trichloroethene (TCE)	6.024	130	555918	220.16 ug/L	95
41) tert-Amyl ethyl ether ...	0.000		0	N.D. d	
42) Dibromomethane	6.462	93	335104	227.28 ug/L	89
43) 1,2-Dichloropropane	6.571	63	603078	226.39 ug/L	94
44) Bromodichloromethane	6.650	83	669572	263.32 ug/L	99
46) 2-Chloroethyl Vinyl Ether	7.301	63	468924	232.34 ug/L #	1
47) c-1,3-Dichloropropene	7.350	75	882052	240.43 ug/L	98

5/2/2020

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050117.D
Acq On : 1 May 2020 9:48 pm
Operator : PS/TNL
Sample : 0E01047-CALB
Misc : 1X 5mL 200 PPB VOCRO
ALS Vial : 17 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 08:15:54 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49) Toluene	7.611	91	2372058	209.91	ug/L		98
50) Tetrachloroethene (PCE)	8.055	166	514776	210.77	ug/L		95
51) 4-Methyl-2-Pentanone (...	8.074	43	2173606	507.01	ug/L		99
52) t-1,3-Dichloropropene	8.110	75	844489	258.90	ug/L		98
53) 1,1,2-Trichloroethane	8.287	97	529072	219.64	ug/L		98
54) Dibromochloromethane	8.487	129	503227	191.04	ug/L		99
55) 1,3-Dichloropropane	8.603	76	968487	227.87	ug/L		97
56) 1,2-Dibromoethane (EDB)	8.743	107	543124	195.37	ug/L		100
57) 2-Hexanone	9.035	43	1614940	475.70	ug/L		99
58) Chlorobenzene	9.315	112	1479911	210.64	ug/L		98
59) Ethylbenzene	9.357	91	2652293	226.64	ug/L		99
60) 1,1,1,2-Tetrachloroethane	9.388	131	501557	192.59	ug/L		99
61) m,p-Xylenes (2)	9.503	91	4083405	476.61	ug/L		99
62) o-Xylene	9.911	91	2033618	235.71	ug/L		97
63) Styrene	9.966	104	1755481	252.08	ug/L		96
64) Bromoform	9.972	173	421197	190.35	ug/L		97
65) Isopropylbenzene	10.203	105	2466431	233.48	ug/L		99
68) Bromobenzene	10.525	156	606330	208.45	ug/L		90
69) n-Propylbenzene	10.562	91	2842165	225.97	ug/L		97
70) 1,1,2,2-Tetrachloroethane	10.635	83	753451	223.53	ug/L		97
71) 2-Chlorotoluene	10.683	126	575024	224.56	ug/L		93
72) 1,3,5-Trimethylbenzene	10.732	105	2033658	244.54	ug/L		96
73) 1,2,3-Trichloropropane	10.732	110	287298	232.65	ug/L		94
74) t-1,4-Dichloro-2-butene	10.775	88	108502	225.32	ug/L	#	87
75) 4-Chlorotoluene	10.823	91	1736355	222.96	ug/L		96
76) tert-Butylbenzene	10.988	91	1087074	230.74	ug/L		95
77) 1,2,4-Trimethylbenzene	11.048	105	1960243	237.44	ug/L		99
78) sec-Butylbenzene	11.134	105	2432667	229.15	ug/L		99
79) 4-Isopropyltoluene	11.249	119	2052887	233.58	ug/L		98
80) 1,3-Dichlorobenzene	11.298	146	1099665	211.24	ug/L		98
81) 1,4-Dichlorobenzene	11.371	146	1137196	210.39	ug/L		98
82) n-Butylbenzene	11.572	91	1818583	237.88	ug/L		96
83) 1,2-Dichlorobenzene	11.693	146	1066918	208.45	ug/L		99
84) 1,2-Dibromo-3-Chloropr...	12.290	157	203360	211.50	ug/L		84
85) Hexachlorobutadiene	12.788	223	157201	198.95	ug/L		97
86) 1,2,4-Trichlorobenzene	12.813	180	720697	214.37	ug/L		96
87) Naphthalene	13.074	128	2424736	223.87	ug/L		98
88) 1,2,3-Trichlorobenzene	13.226	180	691681	206.62	ug/L		98

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050116.D
Acq On : 1 May 2020 9:21 pm
Operator : PS/TNL
Sample : 0E01047-IBLK4
Misc : 1X 5mL DI
ALS Vial : 16 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:16:59 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Sat May 02 09:01:18 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (I)	5.531	99	112190	50.00 ug/L	0.00
45) Chlorobenzene-d5 (I)	9.297	117	314306	50.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4...	11.359	152	148496	50.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane (S)	5.032	111	93397	49.33 ug/L	0.00
39) 1,4-Difluorobenzene (S)	6.073	114	357552	50.34 ug/L	0.00
48) Toluene-d8 (S)	7.557	98	418662	50.61 ug/L	0.00
67) 4-Bromofluorobenzene (S)	10.447	174	116537	51.31 ug/L	0.00
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.402	85	608	0.29 ug/L	90
3) Chloromethane	1.578	50	262	0.08 ug/L #	50
4) Vinyl Chloride	1.658	62	525	0.16 ug/L	62
5) Bromomethane	1.956	96	241	0.09 ug/L	72
6) Chloroethane	0.000		0	N.D.	
7) Trichlorofluoromethane	2.223	101	748	0.20 ug/L	92
8) Ethanol	2.722	45	1077	12.31 ug/L	85
9) 1,1-Dichloroethene	2.710	61	721	0.21 ug/L	96
10) Carbon Disulfide	2.722	76	3925	0.80 ug/L	93
11) Freon 113	2.759	101	415	0.23 ug/L #	32
12) Iodomethane	0.000		0	N.D.	
13) Acrolein	0.000		0	N.D.	
14) Methylene Chloride	3.288	84	9697	3.52 ug/L	90
15) Acetone	3.355	43	2906	1.89 ug/L	98
16) t-1,2-Dichloroethene	3.446	61	1077	0.32 ug/L	88
17) n-Hexane	0.000		0	N.D.	
18) Methyl-tert-butyl-ether	0.000		0	N.D.	
19) tert-Butanol (TBA)	3.702	59	1698	2.66 ug/L #	80
20) Diisopropyl ether (DIPE)	0.000		0	N.D.	
21) 1,1-Dichloroethane	0.000		0	N.D.	
22) Acrylonitrile	0.000		0	N.D.	
23) Vinyl Acetate	0.000		0	N.D.	
24) Ethyl-tert-butyl ether...	0.000		0	N.D.	
25) c-1,2-Dichloroethene	4.578	61	553	0.16 ug/L #	57
26) 2,2-Dichloropropane	0.000		0	N.D.	
27) Bromochloromethane	4.772	49	196	0.08 ug/L #	14
28) Chloroform	4.851	83	63	0.02 ug/L #	25
29) Carbon Tetrachloride	0.000		0	N.D.	
30) Tetrahydrofuran	5.044	42	38	0.03 ug/L #	1
31) 1,1,1-Trichloroethane	5.044	97	82	0.02 ug/L #	25
33) 1,1-Dichloropropene	5.172	75	925	0.29 ug/L	89
34) 2-Butanone (MEK)	5.190	43	249	0.10 ug/L	52
35) Benzene	5.416	78	1033	0.09 ug/L	84
36) tert-Amyl methyl ether...	5.537	73	173	0.03 ug/L #	1
37) 1,2-Dichloroethane (EDC)	5.628	62	167	0.05 ug/L #	49
38) iso-Butyl Alcohol	5.714	43	238	0.74 ug/L	83
40) Trichloroethene (TCE)	6.036	130	612	0.24 ug/L	77
41) tert-Amyl ethyl ether ...	0.000		0	N.D.	
42) Dibromomethane	6.474	93	111	0.07 ug/L #	32
43) 1,2-Dichloropropane	0.000		0	N.D.	
44) Bromodichloromethane	0.000		0	N.D.	
46) 2-Chloroethyl Vinyl Ether	0.000		0	N.D.	
47) c-1,3-Dichloropropene	7.356	75	177	0.05 ug/L #	33

NR
5/12/2020

Quantitation Report (Not Reviewed)

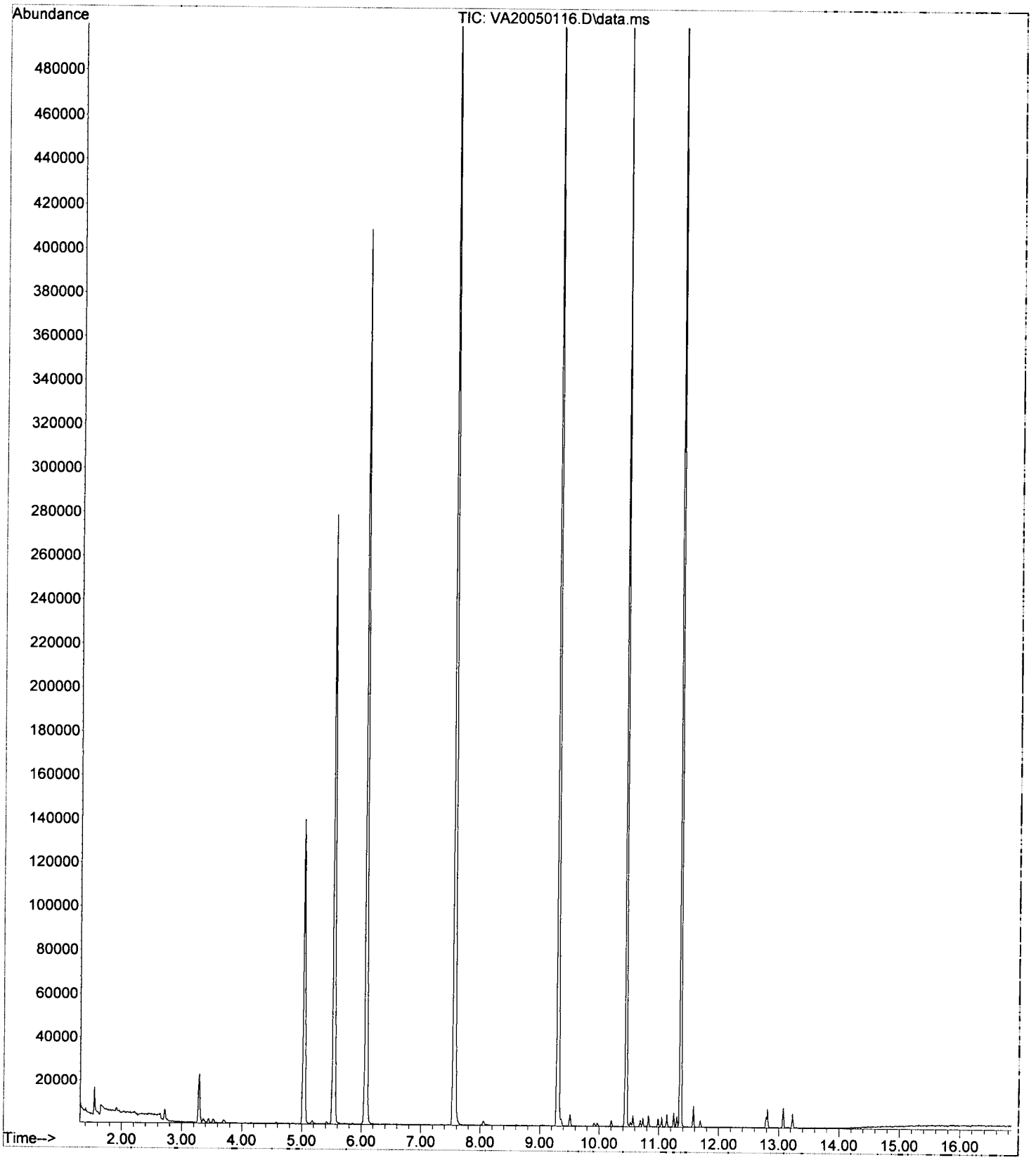
Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050116.D
Acq On : 1 May 2020 9:21 pm
Operator : PS/TNL
Sample : 0E01047-IBLK4
Misc : 1X 5mL DI
ALS Vial : 16 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:16:59 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Sat May 02 09:01:18 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
49) Toluene	7.612	91	1513	0.14 ug/L	76
50) Tetrachloroethene (PCE)	8.056	166	880	0.40 ug/L	78
51) 4-Methyl-2-Pentanone (...	8.080	43	360	0.08 ug/L	75
52) t-1,3-Dichloropropene	8.111	75	193	0.62 ug/L #	45
53) 1,1,2-Trichloroethane	0.000		0	N.D.	
54) Dibromochloromethane	0.000		0	N.D.	
55) 1,3-Dichloropropane	8.603	76	220	0.05 ug/L #	76
56) 1,2-Dibromoethane (EDB)	0.000		0	N.D.	
57) 2-Hexanone	9.047	43	551	0.16 ug/L	80
58) Chlorobenzene	9.315	112	1176	0.17 ug/L #	27
59) Ethylbenzene	9.358	91	2202	0.19 ug/L	90
60) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.	
61) m,p-Xylenes (2)	9.510	91	3398	0.40 ug/L	96
62) o-Xylene	9.911	91	1203	0.14 ug/L	90
63) Styrene	9.966	104	929	0.14 ug/L	93
64) Bromoform	0.000		0	N.D.	
65) Isopropylbenzene	10.203	105	2083	0.21 ug/L	95
68) Bromobenzene	10.526	156	474	0.18 ug/L #	66
69) n-Propylbenzene	10.562	91	4096	0.35 ug/L	91
70) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.	
71) 2-Chlorotoluene	10.690	126	558	0.24 ug/L	90
72) 1,3,5-Trimethylbenzene	10.733	105	2177	0.29 ug/L	98
73) 1,2,3-Trichloropropane	0.000		0	N.D.	
74) t-1,4-Dichloro-2-butene	0.000		0	N.D.	
75) 4-Chlorotoluene	10.824	91	2342	0.32 ug/L	88
76) tert-Butylbenzene	10.988	91	1125	0.26 ug/L	92
77) 1,2,4-Trimethylbenzene	11.049	105	2181	0.29 ug/L	95
78) sec-Butylbenzene	11.134	105	3542	0.37 ug/L	96
79) 4-Isopropyltoluene	11.250	119	3151	0.41 ug/L	97
80) 1,3-Dichlorobenzene	11.298	146	1851	0.39 ug/L	96
81) 1,4-Dichlorobenzene	11.365	146	2299	0.47 ug/L #	58
82) n-Butylbenzene	11.578	91	4464	0.62 ug/L	94
83) 1,2-Dichlorobenzene	11.694	146	1271	0.28 ug/L	92
84) 1,2-Dibromo-3-Chloropr...	0.000		0	N.D.	
85) Hexachlorobutadiene	12.789	223	507	0.80 ug/L	89
86) 1,2,4-Trichlorobenzene	12.813	180	2513	0.84 ug/L	89
87) Naphthalene	13.075	128	6279	0.69 ug/L	96
88) 1,2,3-Trichlorobenzene	13.233	180	2053	0.71 ug/L	99

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

File :C:\msdchem\1\DATA\2020-05\0E01047\VA20050116.D
Operator : PS/TNL
Acquired : 1 May 2020 9:21 pm using AcqMethod VA2001RUN.M
Instrument : VOA-GCMS1
Sample Name: 0E01047-IBLK4
Misc Info : 1X 5mL DI
Vial Number: 16



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050117.D
Acq On : 1 May 2020 9:48 pm
Operator : PS/TNL
Sample : 0E01047-CALB
Misc : 1X 5mL 200 PPB VOCRO
ALS Vial : 17 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:31 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	5.531	99	113965	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	9.303	117	347005	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	11.359	152	178572	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	5.032	111	107270	54.39	ug/L		0.00
39) 1,4-Difluorobenzene (S)	6.072	114	367417	48.71	ug/L		0.00
48) Toluene-d8 (S)	7.557	98	432774	48.73	ug/L		0.00
67) 4-Bromofluorobenzene (S)	10.446	174	129748	46.09	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.401	85	485999	236.98	ug/L		97
3) Chloromethane	1.578	50	633864	221.64	ug/L		100
4) Vinyl Chloride	1.651	62	690742	254.09	ug/L		94
5) Bromomethane	1.955	96	412776	250.92	ug/L		99
6) Chloroethane	2.064	64	246757	Below Cal			99
7) Trichlorofluoromethane	2.204	101	789335	255.49	ug/L		98
8) Ethanol	2.715	45	4081	51.01	ug/L	#	1
9) 1,1-Dichloroethene	2.703	61	783024	263.60	ug/L		93
10) Carbon Disulfide	2.715	76	1211657	235.73	ug/L		99
11) Freon 113	2.758	101	424235	221.54	ug/L		94
12) Iodomethane	2.837	142	315964	192.12	ug/L		93
13) Acrolein	3.056	56	145519	240.26	ug/L		98
14) Methylene Chloride	3.287	84	511315	191.97	ug/L		92
15) Acetone	3.348	43	585368	408.88	ug/L		99
16) t-1,2-Dichloroethene	3.439	61	735845	230.93	ug/L		97
17) n-Hexane	3.524	86	106769	219.83	ug/L	#	75
18) Methyl-tert-butyl-ether	3.567	73	1710060	219.97	ug/L		100
19) tert-Butanol (TBA)	3.707	59	1478	2.12	ug/L	#	22
20) Diisopropyl ether (DIPE)	3.944	45	387	0.05	ug/L		55
21) 1,1-Dichloroethane	4.042	63	971437	221.79	ug/L		99
22) Acrylonitrile	4.102	53	364823	232.65	ug/L		98
23) Vinyl Acetate	4.309	43	1031416	223.11	ug/L		97
24) Ethyl-tert-butyl ether...	4.315	59	190	0.03	ug/L	#	1
25) c-1,2-Dichloroethene	4.571	61	754144	234.01	ug/L		97
26) 2,2-Dichloropropane	4.674	77	571169	220.62	ug/L		92
27) Bromochloromethane	4.765	49	485408	229.88	ug/L		81
28) Chloroform	4.851	83	872869	226.81	ug/L		96
29) Carbon Tetrachloride	4.972	117	616955	259.72	ug/L		96
30) Tetrahydrofuran	5.014	42	279297	190.76	ug/L		98
31) 1,1,1-Trichloroethane	5.044	97	794089	224.11	ug/L		97
33) 1,1-Dichloropropene	5.166	75	731692	229.44	ug/L		94
34) 2-Butanone (MEK)	5.166	43	1113997	491.45	ug/L		97
35) Benzene	5.415	78	2283967	214.44	ug/L		99
36) tert-Amyl methyl ether...	5.543	73	419	0.06	ug/L	#	1
37) 1,2-Dichloroethane (EDC)	5.628	62	702335	236.12	ug/L		100
38) iso-Butyl Alcohol	5.701	43	1915085	6168.16	ug/L		96
40) Trichloroethene (TCE)	6.024	130	555918	220.16	ug/L		95
41) tert-Amyl ethyl ether ...	6.297	59	395	0.07	ug/L	#	21
42) Dibromomethane	6.462	93	335104	227.28	ug/L		89
43) 1,2-Dichloropropane	6.571	63	603078	226.39	ug/L		94
44) Bromodichloromethane	6.650	83	669572	263.32	ug/L		99
46) 2-Chloroethyl Vinyl Ether	7.301	63	468924	232.34	ug/L	#	1
47) c-1,3-Dichloropropene	7.350	75	882052	240.43	ug/L		98

5/2/2024

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050117.D
Acq On : 1 May 2020 9:48 pm
Operator : PS/TNL
Sample : 0E01047-CALB
Misc : 1X 5mL 200 PPB VOCRO
ALS Vial : 17 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:31 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration

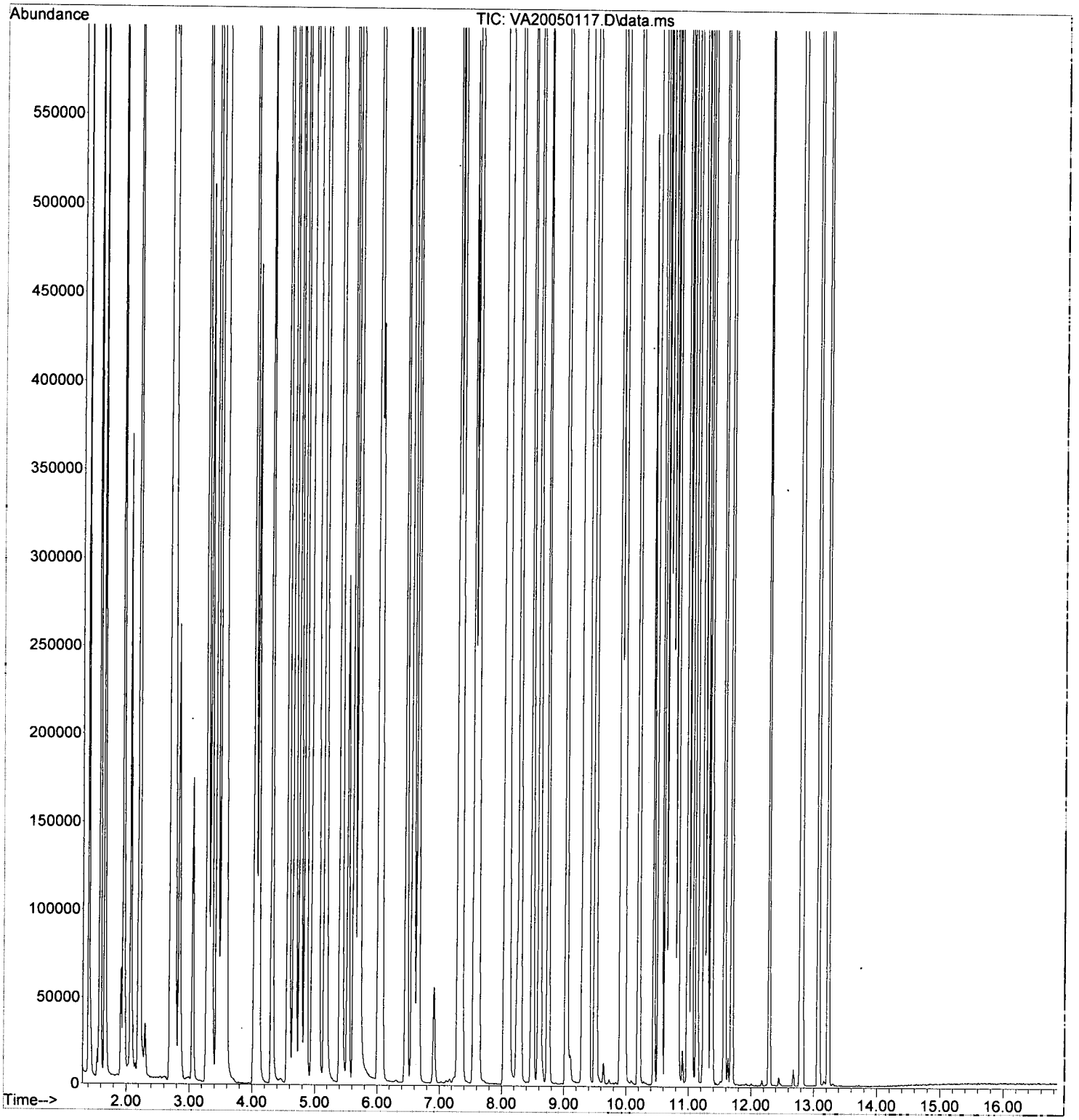
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49) Toluene	7.611	91	2372058	209.91	ug/L		98
50) Tetrachloroethene (PCE)	8.055	166	514776	210.77	ug/L		95
51) 4-Methyl-2-Pentanone (...	8.074	43	2173606	507.01	ug/L		99
52) t-1,3-Dichloropropene	8.110	75	844489	258.90	ug/L		98
53) 1,1,2-Trichloroethane	8.287	97	529072	219.64	ug/L		98
54) Dibromochloromethane	8.487	129	503227	191.04	ug/L		99
55) 1,3-Dichloropropane	8.603	76	968487	227.87	ug/L		97
56) 1,2-Dibromoethane (EDB)	8.743	107	543124	195.37	ug/L		100
57) 2-Hexanone	9.035	43	1614940	475.70	ug/L		99
58) Chlorobenzene	9.315	112	1479911	210.64	ug/L		98
59) Ethylbenzene	9.357	91	2652293	226.64	ug/L		99
60) 1,1,1,2-Tetrachloroethane	9.388	131	501557	192.59	ug/L		99
61) m,p-Xylenes (2)	9.503	91	4083405	476.61	ug/L		99
62) o-Xylene	9.911	91	2033618	235.71	ug/L		97
63) Styrene	9.966	104	1755481	252.08	ug/L		96
64) Bromoform	9.972	173	421197	190.35	ug/L		97
65) Isopropylbenzene	10.203	105	2466431	233.48	ug/L		99
68) Bromobenzene	10.525	156	606330	208.45	ug/L		90
69) n-Propylbenzene	10.562	91	2842165	225.97	ug/L		97
70) 1,1,2,2-Tetrachloroethane	10.635	83	753451	223.53	ug/L		97
71) 2-Chlorotoluene	10.683	126	575024	224.56	ug/L		93
72) 1,3,5-Trimethylbenzene	10.732	105	2033658	244.54	ug/L		96
73) 1,2,3-Trichloropropane	10.732	110	287298	232.65	ug/L		94
74) t-1,4-Dichloro-2-butene	10.775	88	108502	225.32	ug/L	#	87
75) 4-Chlorotoluene	10.823	91	1736355	222.96	ug/L		96
76) tert-Butylbenzene	10.988	91	1087074	230.74	ug/L		95
77) 1,2,4-Trimethylbenzene	11.048	105	1960243	237.44	ug/L		99
78) sec-Butylbenzene	11.134	105	2432667	229.15	ug/L		99
79) 4-Isopropyltoluene	11.249	119	2052887	233.58	ug/L		98
80) 1,3-Dichlorobenzene	11.298	146	1099665	211.24	ug/L		98
81) 1,4-Dichlorobenzene	11.371	146	1137196	210.39	ug/L		98
82) n-Butylbenzene	11.572	91	1818583	237.88	ug/L		96
83) 1,2-Dichlorobenzene	11.693	146	1066918	208.45	ug/L		99
84) 1,2-Dibromo-3-Chloropr...	12.290	157	203360	211.50	ug/L		84
85) Hexachlorobutadiene	12.788	223	157201	198.95	ug/L		97
86) 1,2,4-Trichlorobenzene	12.813	180	720697	214.37	ug/L		96
87) Naphthalene	13.074	128	2424736	223.87	ug/L		98
88) 1,2,3-Trichlorobenzene	13.226	180	691681	206.62	ug/L		98

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050117.D
Acq On : 1 May 2020 9:48 pm
Operator : PS/TNL
Sample : 0E01047-CALB
Misc : 1X 5mL 200 PPB VOCRO
ALS Vial : 17 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 07:37:31 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Thu Apr 23 17:19:08 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050118.D
Acq On : 1 May 2020 10:16 pm
Operator : PS/TNL
Sample : 0E01047-IBLK5
Misc : 1X 5mL DI
ALS Vial : 18 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:17:01 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Sat May 02 09:01:18 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (I)	5.531	99	125322	50.00 ug/L	0.00
45) Chlorobenzene-d5 (I)	9.296	117	353546	50.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4...	11.358	152	167182	50.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane (S)	5.032	111	105494	49.88 ug/L	0.00
39) 1,4-Difluorobenzene (S)	6.072	114	401860	50.65 ug/L	0.00
48) Toluene-d8 (S)	7.556	98	471737	50.70 ug/L	0.00
67) 4-Bromofluorobenzene (S)	10.446	174	132052	51.65 ug/L	0.00
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.403	85	1348	0.57 ug/L	88
3) Chloromethane	1.573	50	621	0.17 ug/L	74
4) Vinyl Chloride	1.653	62	958	0.26 ug/L	70
5) Bromomethane	1.957	96	535	0.18 ug/L	85
6) Chloroethane	0.000		0	N.D.	
7) Trichlorofluoromethane	2.218	101	1505	0.36 ug/L	85
8) Ethanol	2.717	45	402	4.11 ug/L #	29
9) 1,1-Dichloroethene	2.705	61	1416	0.37 ug/L	89
10) Carbon Disulfide	2.723	76	7723	1.42 ug/L	95
11) Freon 113	2.766	101	1098	0.54 ug/L	73
12) Iodomethane	0.000		0	N.D.	
13) Acrolein	0.000		0	N.D.	
14) Methylene Chloride	3.289	84	5870	1.91 ug/L	80
15) Acetone	3.362	43	3524	2.05 ug/L	84
16) t-1,2-Dichloroethene	3.447	61	2303	0.61 ug/L	89
17) n-Hexane	3.526	86	56	0.11 ug/L #	76
18) Methyl-tert-butyl-ether	0.000		0	N.D.	
19) tert-Butanol (TBA)	3.709	59	878	1.23 ug/L #	79
20) Diisopropyl ether (DIPE)	0.000		0	N.D.	
21) 1,1-Dichloroethane	4.043	63	397	0.08 ug/L #	50
22) Acrylonitrile	4.122	53	120	0.06 ug/L #	14
23) Vinyl Acetate	0.000		0	N.D.	
24) Ethyl-tert-butyl ether...	0.000		0	N.D.	
25) c-1,2-Dichloroethene	4.573	61	1078	0.28 ug/L	85
26) 2,2-Dichloropropane	0.000		0	N.D.	
27) Bromochloromethane	4.767	49	381	0.14 ug/L #	56
28) Chloroform	4.852	83	355	0.08 ug/L #	25
29) Carbon Tetrachloride	4.974	117	214	0.40 ug/L	76
30) Tetrahydrofuran	5.026	42	263	0.16 ug/L #	37
31) 1,1,1-Trichloroethane	5.038	97	261	0.07 ug/L #	71
33) 1,1-Dichloropropene	5.178	75	1804	0.50 ug/L	89
34) 2-Butanone (MEK)	5.202	43	576	0.20 ug/L	52
35) Benzene	5.415	78	2065	0.17 ug/L	88
36) tert-Amyl methyl ether...	5.531	73	50	0.01 ug/L #	1
37) 1,2-Dichloroethane (EDC)	5.634	62	414	0.11 ug/L #	49
38) iso-Butyl Alcohol	5.737	43	386	1.07 ug/L	90
40) Trichloroethene (TCE)	6.029	130	1198	0.42 ug/L	88
41) tert-Amyl ethyl ether ...	0.000		0	N.D.	
42) Dibromomethane	6.467	93	270	0.16 ug/L	93
43) 1,2-Dichloropropane	6.571	63	83	0.02 ug/L #	40
44) Bromodichloromethane	6.662	83	139	0.05 ug/L #	26
46) 2-Chloroethyl Vinyl Ether	0.000		0	N.D.	
47) c-1,3-Dichloropropene	7.356	75	458	0.12 ug/L #	63

NR 5/21/20

Quantitation Report (Not Reviewed)

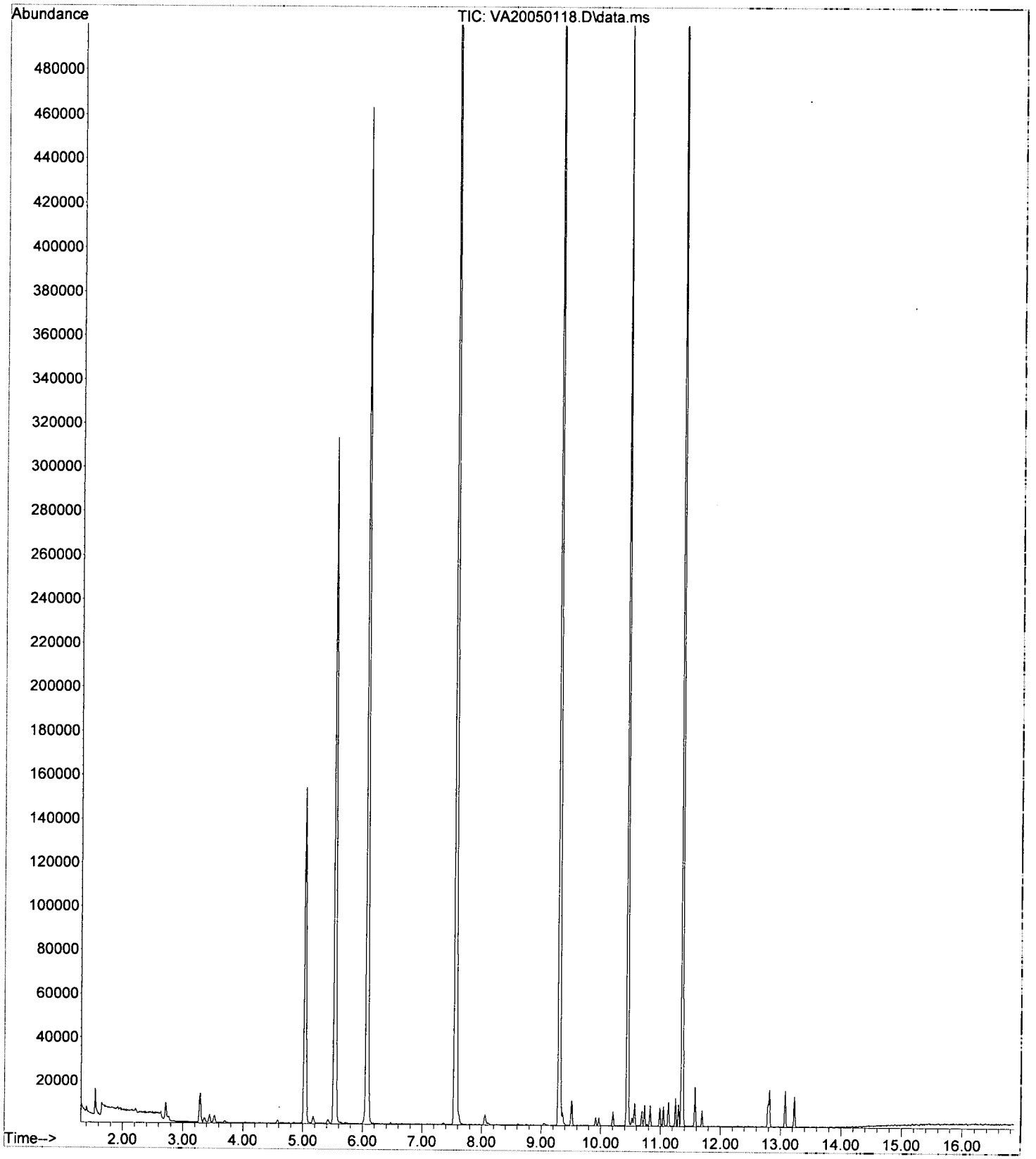
Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050118.D
Acq On : 1 May 2020 10:16 pm
Operator : PS/TNL
Sample : 0E01047-IBLK5
Misc : 1X 5mL DI
ALS Vial : 18 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:17:01 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Sat May 02 09:01:18 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
49) Toluene	7.617	91	2965	0.24 ug/L	98
50) Tetrachloroethene (PCE)	8.061	166	1671	0.67 ug/L	91
51) 4-Methyl-2-Pentanone (...	8.080	43	645	0.13 ug/L #	43
52) t-1,3-Dichloropropene	8.110	75	601	0.72 ug/L	64
53) 1,1,2-Trichloroethane	0.000		0	N.D.	
54) Dibromochloromethane	0.000		0	N.D.	
55) 1,3-Dichloropropane	8.615	76	384	0.08 ug/L #	68
56) 1,2-Dibromoethane (EDB)	8.743	107	320	0.13 ug/L	97
57) 2-Hexanone	9.053	43	974	0.26 ug/L	79
58) Chlorobenzene	9.314	112	2441	0.31 ug/L #	56
59) Ethylbenzene	9.357	91	3958	0.30 ug/L	93
60) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.	
61) m,p-Xylenes (2)	9.509	91	7009	0.74 ug/L	96
62) o-Xylene	9.911	91	2283	0.24 ug/L	89
63) Styrene	9.971	104	1766	0.24 ug/L	98
64) Bromoform	0.000		0	N.D.	
65) Isopropylbenzene	10.203	105	4130	0.37 ug/L	96
68) Bromobenzene	10.525	156	866	0.30 ug/L	85
69) n-Propylbenzene	10.562	91	7900	0.59 ug/L	94
70) 1,1,2,2-Tetrachloroethane	10.628	83	250	0.07 ug/L #	24
71) 2-Chlorotoluene	10.689	126	1036	0.40 ug/L #	78
72) 1,3,5-Trimethylbenzene	10.732	105	4146	0.48 ug/L	88
73) 1,2,3-Trichloropropane	0.000		0	N.D.	
74) t-1,4-Dichloro-2-butene	0.000		0	N.D.	
75) 4-Chlorotoluene	10.823	91	4631	0.56 ug/L	89
76) tert-Butylbenzene	10.987	91	2251	0.47 ug/L	95
77) 1,2,4-Trimethylbenzene	11.048	105	4258	0.49 ug/L	99
78) sec-Butylbenzene	11.133	105	7258	0.68 ug/L	96
79) 4-Isopropyltoluene	11.249	119	6459	0.74 ug/L	98
80) 1,3-Dichlorobenzene	11.298	146	3703	0.70 ug/L	92
81) 1,4-Dichlorobenzene	11.371	146	4170	0.76 ug/L	89
82) n-Butylbenzene	11.578	91	9197	1.13 ug/L	95
83) 1,2-Dichlorobenzene	11.693	146	2350	0.46 ug/L	95
84) 1,2-Dibromo-3-Chloropr...	12.295	157	93	0.11 ug/L #	18
85) Hexachlorobutadiene	12.788	223	1306	1.82 ug/L	96
86) 1,2,4-Trichlorobenzene	12.812	180	4757	1.41 ug/L	92
87) Naphthalene	13.074	128	11441	1.12 ug/L	99
88) 1,2,3-Trichlorobenzene	13.226	180	3660	1.13 ug/L	87

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

File :C:\msdchem\1\DATA\2020-05\0E01047\VA20050118.D
Operator : PS/TNL
Acquired : 1 May 2020 10:16 pm using AcqMethod VA2001RUN.M
Instrument : VOA-GCMS1
Sample Name: 0E01047-IBLK5
Misc Info : 1X 5mL DI
Vial Number: 18



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050119.D
Acq On : 1 May 2020 10:43 pm
Operator : PS/TNL
Sample : 0E01047-IBLK6
Misc : 1X 5mL DI
ALS Vial : 19 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:17:03 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Sat May 02 09:01:18 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (I)	5.531	99	114870	50.00 ug/L	0.00
45) Chlorobenzene-d5 (I)	9.297	117	326035	50.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4...	11.359	152	156361	50.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane (S)	5.032	111	94310	48.65 ug/L	0.00
39) 1,4-Difluorobenzene (S)	6.073	114	367485	50.53 ug/L	0.00
48) Toluene-d8 (S)	7.557	98	431854	50.33 ug/L	0.00
67) 4-Bromofluorobenzene (S)	10.447	174	122802	51.35 ug/L	0.00
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.404	85	561	0.26 ug/L	90
3) Chloromethane	1.580	50	62	0.02 ug/L #	50
4) Vinyl Chloride	1.653	62	320	0.09 ug/L #	35
5) Bromomethane	1.951	96	154	0.06 ug/L #	61
6) Chloroethane	0.000		0	N.D.	
7) Trichlorofluoromethane	2.219	101	575	0.15 ug/L	76
8) Ethanol	2.724	45	2107	23.52 ug/L	90
9) 1,1-Dichloroethene	2.706	61	412	0.12 ug/L #	56
10) Carbon Disulfide	2.724	76	3032	0.61 ug/L	89
11) Freon 113	2.761	101	363	0.20 ug/L #	61
12) Iodomethane	0.000		0	N.D.	
13) Acrolein	0.000		0	N.D.	
14) Methylene Chloride	3.284	84	10448	3.70 ug/L	86
15) Acetone	3.357	43	2642	1.68 ug/L	99
16) t-1,2-Dichloroethene	3.448	61	711	0.21 ug/L	87
17) n-Hexane	0.000		0	N.D.	
18) Methyl-tert-butyl-ether	0.000		0	N.D.	
19) tert-Butanol (TBA)	3.697	59	1280	1.96 ug/L #	84
20) Diisopropyl ether (DIPE)	0.000		0	N.D.	
21) 1,1-Dichloroethane	0.000		0	N.D.	
22) Acrylonitrile	0.000		0	N.D.	
23) Vinyl Acetate	0.000		0	N.D.	
24) Ethyl-tert-butyl ether...	0.000		0	N.D.	
25) c-1,2-Dichloroethene	4.573	61	195	0.05 ug/L #	18
26) 2,2-Dichloropropane	0.000		0	N.D.	
27) Bromochloromethane	0.000		0	N.D.	
28) Chloroform	0.000		0	N.D.	
29) Carbon Tetrachloride	0.000		0	N.D.	
30) Tetrahydrofuran	0.000		0	N.D.	
31) 1,1,1-Trichloroethane	0.000		0	N.D.	
33) 1,1-Dichloropropene	5.172	75	690	0.21 ug/L	80
34) 2-Butanone (MEK)	0.000		0	N.D.	
35) Benzene	5.422	78	719	0.06 ug/L	73
36) tert-Amyl methyl ether...	5.519	73	97	0.01 ug/L #	1
37) 1,2-Dichloroethane (EDC)	5.635	62	39	0.01 ug/L #	49
38) iso-Butyl Alcohol	0.000		0	N.D.	
40) Trichloroethene (TCE)	6.030	130	378	0.14 ug/L	86
41) tert-Amyl ethyl ether ...	0.000		0	N.D.	
42) Dibromomethane	0.000		0	N.D.	
43) 1,2-Dichloropropane	0.000		0	N.D.	
44) Bromodichloromethane	0.000		0	N.D.	
46) 2-Chloroethyl Vinyl Ether	0.000		0	N.D.	
47) c-1,3-Dichloropropene	7.356	75	46	0.01 ug/L #	25

NL
5/2/2020

Quantitation Report (Not Reviewed)

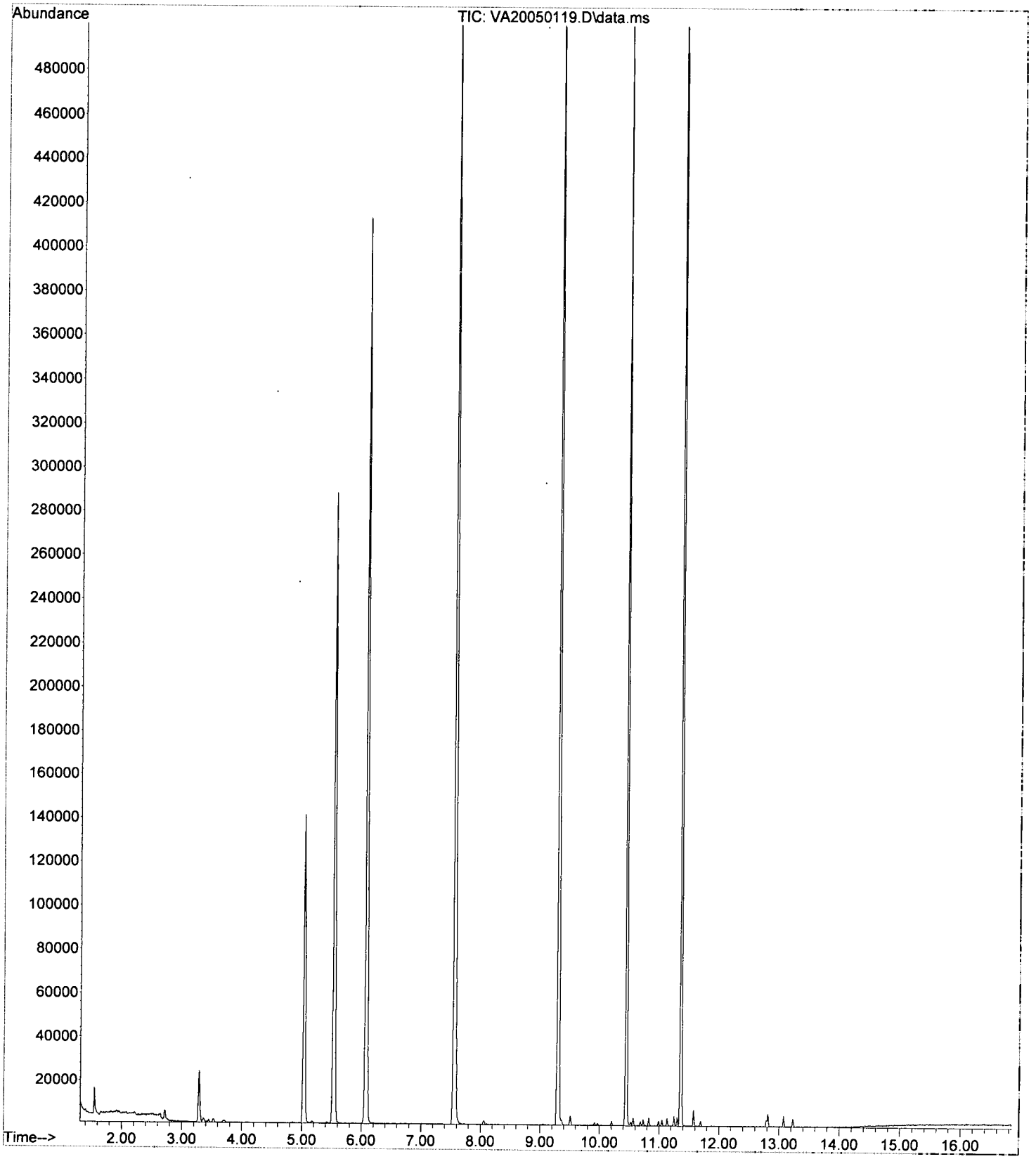
Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050119.D
Acq On : 1 May 2020 10:43 pm
Operator : PS/TNL
Sample : 0E01047-IBLK6
Misc : 1X 5mL DI
ALS Vial : 19 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:17:03 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Sat May 02 09:01:18 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
49) Toluene	7.612	91	1179	0.10 ug/L	90
50) Tetrachloroethene (PCE)	8.062	166	743	0.32 ug/L	78
51) 4-Methyl-2-Pentanone (...	8.104	43	84	0.02 ug/L #	43
52) t-1,3-Dichloropropene	8.117	75	143	0.61 ug/L #	45
53) 1,1,2-Trichloroethane	0.000		0	N.D.	
54) Dibromochloromethane	0.000		0	N.D.	
55) 1,3-Dichloropropane	8.603	76	37	0.01 ug/L #	28
56) 1,2-Dibromoethane (EDB)	8.749	107	37	0.02 ug/L #	7
57) 2-Hexanone	9.053	43	399	0.11 ug/L	71
58) Chlorobenzene	9.315	112	953	0.13 ug/L #	16
59) Ethylbenzene	9.358	91	1521	0.12 ug/L	95
60) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.	
61) m,p-Xylenes (2)	9.504	91	2625	0.30 ug/L	85
62) o-Xylene	9.917	91	802	0.09 ug/L	89
63) Styrene	9.972	104	658	0.10 ug/L	82
64) Bromoform	0.000		0	N.D.	
65) Isopropylbenzene	10.203	105	1353	0.13 ug/L	93
68) Bromobenzene	10.520	156	306	0.11 ug/L #	85
69) n-Propylbenzene	10.568	91	2845	0.23 ug/L	91
70) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.	
71) 2-Chlorotoluene	10.690	126	388	0.16 ug/L	85
72) 1,3,5-Trimethylbenzene	10.732	105	1500	0.19 ug/L	94
73) 1,2,3-Trichloropropane	0.000		0	N.D.	
74) t-1,4-Dichloro-2-butene	0.000		0	N.D.	
75) 4-Chlorotoluene	10.824	91	1777	0.23 ug/L	94
76) tert-Butylbenzene	10.988	91	725	0.16 ug/L	93
77) 1,2,4-Trimethylbenzene	11.049	105	1532	0.19 ug/L	91
78) sec-Butylbenzene	11.134	105	2259	0.23 ug/L	95
79) 4-Isopropyltoluene	11.250	119	2271	0.28 ug/L	96
80) 1,3-Dichlorobenzene	11.304	146	1504	0.30 ug/L	96
81) 1,4-Dichlorobenzene	11.365	146	1638	0.32 ug/L #	42
82) n-Butylbenzene	11.572	91	3666	0.48 ug/L	93
83) 1,2-Dichlorobenzene	11.694	146	862	0.18 ug/L	84
84) 1,2-Dibromo-3-Chloropr...	0.000		0	N.D.	
85) Hexachlorobutadiene	12.789	223	366	0.55 ug/L	85
86) 1,2,4-Trichlorobenzene	12.813	180	1801	0.57 ug/L	96
87) Naphthalene	13.075	128	3283	0.34 ug/L	89
88) 1,2,3-Trichlorobenzene	13.227	180	1265	0.42 ug/L	95

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

File :C:\msdchem\1\DATA\2020-05\0E01047\VA20050119.D
Operator : PS/TNL
Acquired : 1 May 2020 10:43 pm using AcqMethod VA2001RUN.M
Instrument : VOA-GCMS1
Sample Name: 0E01047-IBLK6
Misc Info : 1X 5mL DI
Vial Number: 19



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050120.D
Acq On : 1 May 2020 11:10 pm
Operator : PS/TNL
Sample : 0E01047-ICV1
Misc : 1X 5mL 20-40 PPB VOCRO
ALS Vial : 20 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:17:05 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Sat May 02 09:01:18 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene (I)	5.530	99	114182	50.00	ug/L		0.00
45) Chlorobenzene-d5 (I)	9.302	117	327047	50.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4...	11.358	152	165262	50.00	ug/L		0.00
System Monitoring Compounds							
32) Dibromofluoromethane (S)	5.032	111	97878	50.79	ug/L		0.00
39) 1,4-Difluorobenzene (S)	6.072	114	359747	49.77	ug/L		0.00
48) Toluene-d8 (S)	7.556	98	429162	49.86	ug/L		0.00
67) 4-Bromofluorobenzene (S)	10.446	174	125618	49.70	ug/L		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.401	85	46566	21.61	ug/L		99
3) Chloromethane	1.583	50	59364	18.16	ug/L		99
4) Vinyl Chloride	1.656	62	68620	20.13	ug/L		94
5) Bromomethane	1.954	96	46411	17.26	ug/L		99
6) Chloroethane	2.070	64	24589	13.63	ug/L		94
7) Trichlorofluoromethane	2.210	101	86604	22.87	ug/L		99
8) Ethanol	2.721	45	106159	1192.25	ug/L		90
9) 1,1-Dichloroethene	2.709	61	59545	16.86	ug/L		92
10) Carbon Disulfide	2.715	76	79302	15.96	ug/L		97
11) Freon 113	2.757	101	34636	18.77	ug/L		95
12) Iodomethane	2.842	142	10780	17.02	ug/L		92
13) Acrolein	3.055	56	12390	20.16	ug/L		98
14) Methylene Chloride	3.287	84	50431	17.96	ug/L		88
15) Acetone	3.353	43	61428	39.26	ug/L		100
16) t-1,2-Dichloroethene	3.439	61	64505	18.74	ug/L		96
17) n-Hexane	3.524	86	8718	18.18	ug/L	#	71
18) Methyl-tert-butyl-ether	3.566	73	148744	18.80	ug/L		99
19) tert-Butanol (TBA)	3.694	59	869848	1339.55	ug/L	#	99
20) Diisopropyl ether (DIPE)	3.950	45	46047	5.23	ug/L		89
21) 1,1-Dichloroethane	4.041	63	91648	19.31	ug/L		98
22) Acrylonitrile	4.102	53	34213	20.17	ug/L		93
23) Vinyl Acetate	4.315	43	66348	14.57	ug/L		96
24) Ethyl-tert-butyl ether...	4.302	59	38697	5.18	ug/L		92
25) c-1,2-Dichloroethene	4.576	61	68817	19.37	ug/L		99
26) 2,2-Dichloropropane	4.680	77	43784	17.98	ug/L		83
27) Bromochloromethane	4.765	49	47728	19.38	ug/L		78
28) Chloroform	4.850	83	82893	20.82	ug/L		95
29) Carbon Tetrachloride	4.972	117	47743	20.45	ug/L		96
30) Tetrahydrofuran	5.013	42	29842	19.55	ug/L		97
31) 1,1,1-Trichloroethane	5.044	97	71965	21.23	ug/L		96
33) 1,1-Dichloropropene	5.172	75	65759	19.96	ug/L		93
34) 2-Butanone (MEK)	5.172	43	101044	38.66	ug/L		95
35) Benzene	5.415	78	214353	19.08	ug/L		98
36) tert-Amyl methyl ether...	5.561	73	33083	4.70	ug/L		95
37) 1,2-Dichloroethane (EDC)	5.628	62	67890	19.04	ug/L		98
38) iso-Butyl Alcohol	5.701	43	177083	539.15	ug/L		97
40) Trichloroethene (TCE)	6.029	130	53459	20.47	ug/L		95
41) tert-Amyl ethyl ether ...	6.303	59	26342	5.10	ug/L		86
42) Dibromomethane	6.467	93	30331	19.74	ug/L		87
43) 1,2-Dichloropropane	6.571	63	57310	18.87	ug/L		92
44) Bromodichloromethane	6.656	83	55354	21.27	ug/L		98
46) 2-Chloroethyl Vinyl Ether	7.301	63	39741	20.70	ug/L	#	1
47) c-1,3-Dichloropropene	7.349	75	72384	21.04	ug/L		99

5/2/2020

Quantitation Report (Not Reviewed)

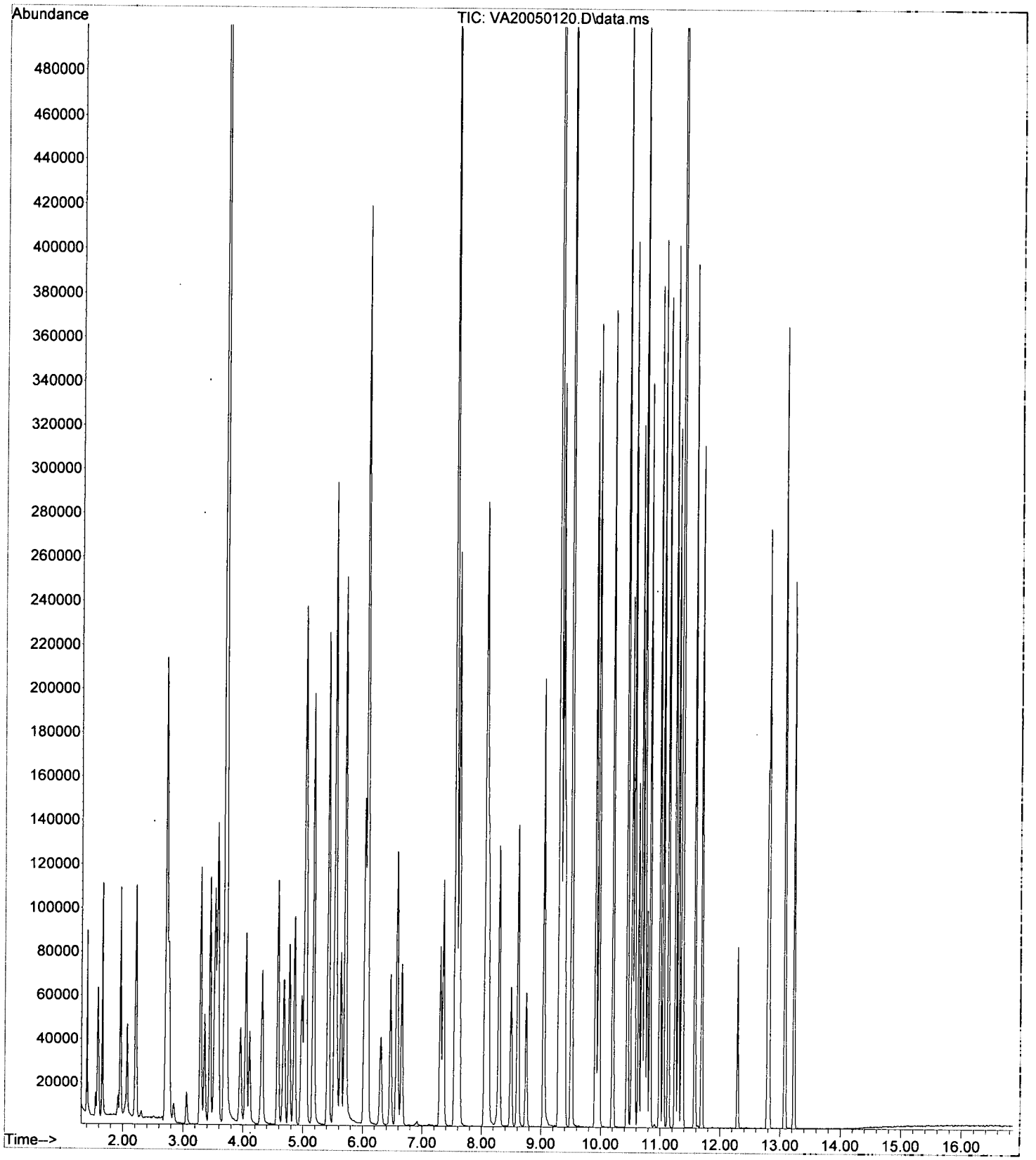
Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050120.D
Acq On : 1 May 2020 11:10 pm
Operator : PS/TNL
Sample : 0E01047-ICV1
Misc : 1X 5mL 20-40 PPB VOCRO
ALS Vial : 20 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:17:05 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Sat May 02 09:01:18 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49) Toluene	7.611	91	223921	19.28	ug/L		99
50) Tetrachloroethene (PCE)	8.055	166	46974	20.27	ug/L		95
51) 4-Methyl-2-Pentanone (...	8.073	43	193465	41.70	ug/L		99
52) t-1,3-Dichloropropene	8.110	75	67870	19.30	ug/L		97
53) 1,1,2-Trichloroethane	8.286	97	49365	20.82	ug/L		98
54) Dibromochloromethane	8.487	129	39413	19.61	ug/L		99
55) 1,3-Dichloropropane	8.609	76	91446	19.50	ug/L		95
56) 1,2-Dibromoethane (EDB)	8.742	107	48962	21.21	ug/L		98
57) 2-Hexanone	9.041	43	146950	41.95	ug/L		97
58) Chlorobenzene	9.314	112	138548	19.26	ug/L		96
59) Ethylbenzene	9.357	91	241637	19.74	ug/L		99
60) 1,1,1,2-Tetrachloroethane	9.387	131	42051	21.14	ug/L		100
61) m,p-Xylenes (2)	9.503	91	358079	40.67	ug/L		98
62) o-Xylene	9.911	91	181290	20.67	ug/L		99
63) Styrene	9.965	104	147531	21.41	ug/L		97
64) Bromoform	9.977	173	27387	21.37	ug/L		98
65) Isopropylbenzene	10.203	105	224398	21.65	ug/L		97
68) Bromobenzene	10.525	156	55378	19.26	ug/L	#	84
69) n-Propylbenzene	10.561	91	266172	20.24	ug/L		95
70) 1,1,2,2-Tetrachloroethane	10.628	83	70531	19.40	ug/L		97
71) 2-Chlorotoluene	10.689	126	53410	20.74	ug/L		97
72) 1,3,5-Trimethylbenzene	10.732	105	178775	21.05	ug/L		95
73) 1,2,3-Trichloropropane	10.732	110	26113	20.40	ug/L		93
74) t-1,4-Dichloro-2-butene	10.774	88	6969	15.75	ug/L	#	76
75) 4-Chlorotoluene	10.823	91	161949	19.87	ug/L		94
76) tert-Butylbenzene	10.987	91	100102	20.99	ug/L		96
77) 1,2,4-Trimethylbenzene	11.048	105	179824	21.14	ug/L		98
78) sec-Butylbenzene	11.133	105	229731	21.76	ug/L		98
79) 4-Isopropyltoluene	11.249	119	190773	22.16	ug/L		99
80) 1,3-Dichlorobenzene	11.298	146	105853	20.21	ug/L		98
81) 1,4-Dichlorobenzene	11.371	146	110271	20.26	ug/L		96
82) n-Butylbenzene	11.571	91	175037	21.76	ug/L		96
83) 1,2-Dichlorobenzene	11.693	146	103806	20.67	ug/L		98
84) 1,2-Dibromo-3-Chloropr...	12.289	157	16855	20.06	ug/L		68
85) Hexachlorobutadiene	12.788	223	16270	22.95	ug/L		94
86) 1,2,4-Trichlorobenzene	12.812	180	69120	20.78	ug/L		96
87) Naphthalene	13.074	128	237131	23.49	ug/L		98
88) 1,2,3-Trichlorobenzene	13.226	180	68854	21.49	ug/L		97

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

File :C:\msdchem\1\DATA\2020-05\0E01047\VA20050120.D
Operator : PS/TNL
Acquired : 1 May 2020 11:10 pm using AcqMethod VA2001RUN.M
Instrument : VOA-GCMS1
Sample Name: 0E01047-ICV1
Misc Info : 1X 5mL 20-40 PPB VOCRO
Vial Number: 20



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050121.D
Acq On : 1 May 2020 11:38 pm
Operator : PS/TNL
Sample : 0E01047-IBLK7
Misc : 1X 5mL DI
ALS Vial : 21 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:17:07 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Sat May 02 09:01:18 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (I)	5.531	99	115921	50.00 ug/L	0.00
45) Chlorobenzene-d5 (I)	9.297	117	328768	50.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4...	11.359	152	157743	50.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane (S)	5.032	111	93056	47.57 ug/L	0.00
39) 1,4-Difluorobenzene (S)	6.073	114	365325	49.78 ug/L	0.00
48) Toluene-d8 (S)	7.557	98	435015	50.28 ug/L	0.00
67) 4-Bromofluorobenzene (S)	10.447	174	121790	50.48 ug/L	0.00
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.404	85	357	0.16 ug/L	81
3) Chloromethane	1.580	50	124	0.04 ug/L #	50
4) Vinyl Chloride	1.653	62	168	0.05 ug/L #	25
5) Bromomethane	1.957	96	141	0.05 ug/L	70
6) Chloroethane	0.000		0	N.D.	
7) Trichlorofluoromethane	2.213	101	366	0.10 ug/L #	27
8) Ethanol	2.718	45	541	5.98 ug/L	94
9) 1,1-Dichloroethene	2.706	61	279	0.08 ug/L #	25
10) Carbon Disulfide	2.718	76	1853	0.37 ug/L	78
11) Freon 113	2.760	101	139	0.07 ug/L #	16
12) Iodomethane	0.000		0	N.D.	
13) Acrolein	0.000		0	N.D.	
14) Methylene Chloride	3.290	84	5295	1.86 ug/L	90
15) Acetone	3.363	43	2291	1.44 ug/L	98
16) t-1,2-Dichloroethene	3.442	61	408	0.12 ug/L	94
17) n-Hexane	0.000		0	N.D.	
18) Methyl-tert-butyl-ether	0.000		0	N.D.	
19) tert-Butanol (TBA)	3.703	59	737	1.12 ug/L #	34
20) Diisopropyl ether (DIPE)	0.000		0	N.D.	
21) 1,1-Dichloroethane	0.000		0	N.D.	
22) Acrylonitrile	0.000		0	N.D.	
23) Vinyl Acetate	0.000		0	N.D.	
24) Ethyl-tert-butyl ether...	0.000		0	N.D.	
25) c-1,2-Dichloroethene	4.579	61	58	0.02 ug/L #	18
26) 2,2-Dichloropropane	0.000		0	N.D.	
27) Bromochloromethane	0.000		0	N.D.	
28) Chloroform	0.000		0	N.D.	
29) Carbon Tetrachloride	0.000		0	N.D.	
30) Tetrahydrofuran	0.000		0	N.D.	
31) 1,1,1-Trichloroethane	0.000		0	N.D.	
33) 1,1-Dichloropropene	5.172	75	400	0.12 ug/L #	39
34) 2-Butanone (MEK)	5.203	43	37	0.01 ug/L	52
35) Benzene	5.428	78	467	0.04 ug/L	56
36) tert-Amyl methyl ether...	5.531	73	160	0.02 ug/L #	1
37) 1,2-Dichloroethane (EDC)	0.000		0	N.D.	
38) iso-Butyl Alcohol	0.000		0	N.D.	
40) Trichloroethene (TCE)	6.024	130	290	0.11 ug/L	74
41) tert-Amyl ethyl ether ...	0.000		0	N.D.	
42) Dibromomethane	0.000		0	N.D.	
43) 1,2-Dichloropropane	0.000		0	N.D.	
44) Bromodichloromethane	0.000		0	N.D.	
46) 2-Chloroethyl Vinyl Ether	0.000		0	N.D.	
47) c-1,3-Dichloropropene	7.362	75	90	0.03 ug/L #	40

NR 5/2/2020

Quantitation Report (Not Reviewed)

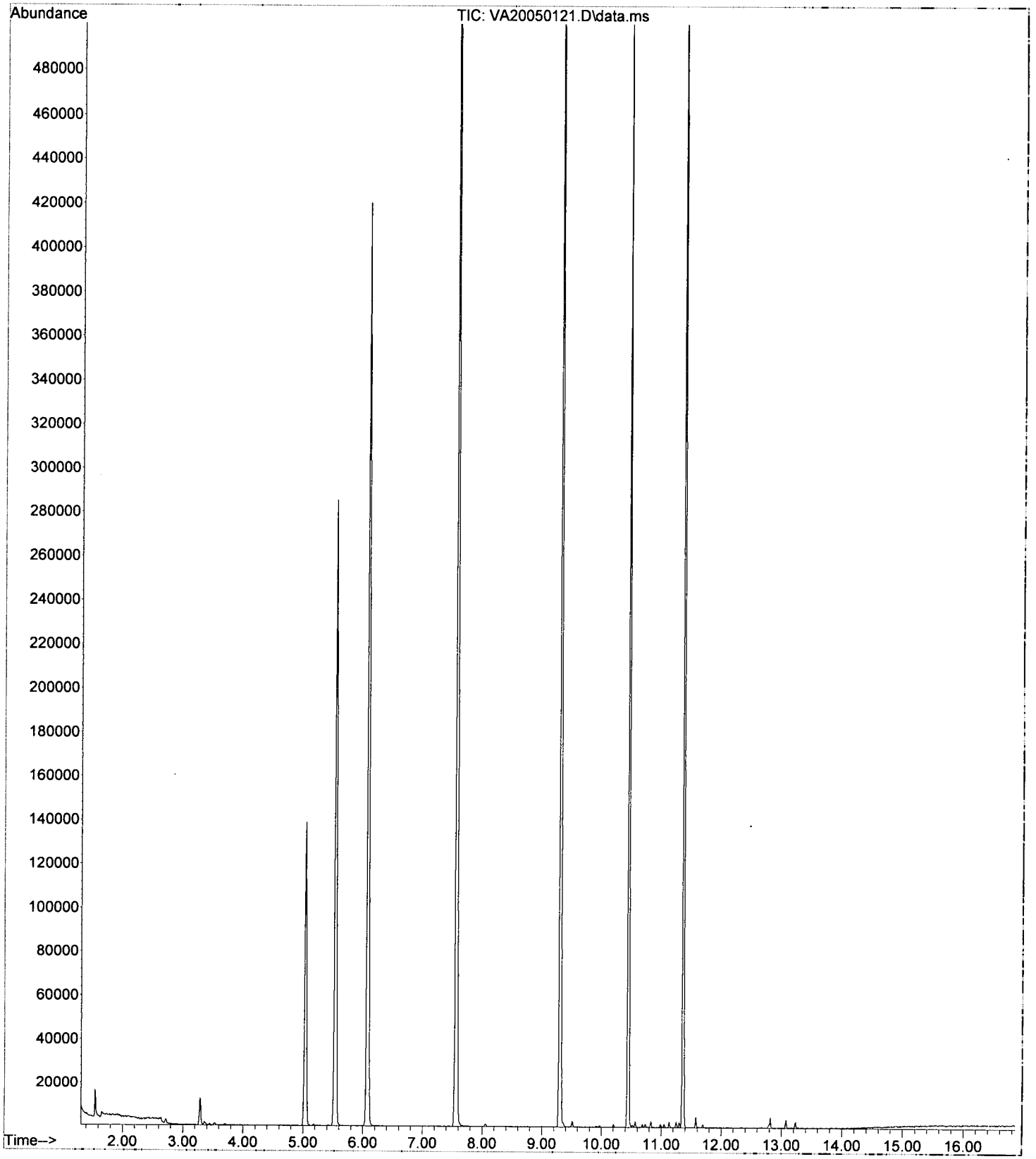
Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050121.D
Acq On : 1 May 2020 11:38 pm
Operator : PS/TNL
Sample : 0E01047-IBLK7
Misc : 1X 5mL DI
ALS Vial : 21 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:17:07 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Sat May 02 09:01:18 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
49) Toluene	7.618	91	926	0.08 ug/L	88
50) Tetrachloroethene (PCE)	8.062	166	482	0.21 ug/L	85
51) 4-Methyl-2-Pentanone (...	0.000		0	N.D.	
52) t-1,3-Dichloropropene	0.000		0	N.D.	
53) 1,1,2-Trichloroethane	0.000		0	N.D.	
54) Dibromochloromethane	0.000		0	N.D.	
55) 1,3-Dichloropropane	0.000		0	N.D.	
56) 1,2-Dibromoethane (EDB)	0.000		0	N.D.	
57) 2-Hexanone	9.066	43	168	0.05 ug/L #	32
58) Chlorobenzene	9.321	112	615	0.09 ug/L #	57
59) Ethylbenzene	9.358	91	1206	0.10 ug/L	90
60) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.	
61) m,p-Xylenes (2)	9.504	91	1797	0.20 ug/L	89
62) o-Xylene	9.911	91	615	0.07 ug/L	90
63) Styrene	9.972	104	542	0.08 ug/L	88
64) Bromoform	0.000		0	N.D.	
65) Isopropylbenzene	10.203	105	1087	0.10 ug/L	97
68) Bromobenzene	10.520	156	285	0.10 ug/L #	70
69) n-Propylbenzene	10.562	91	2364	0.19 ug/L	88
70) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.	
71) 2-Chlorotoluene	10.684	126	256	0.10 ug/L	99
72) 1,3,5-Trimethylbenzene	10.733	105	1033	0.13 ug/L	91
73) 1,2,3-Trichloropropane	0.000		0	N.D.	
74) t-1,4-Dichloro-2-butene	0.000		0	N.D.	
75) 4-Chlorotoluene	10.830	91	1190	0.15 ug/L	91
76) tert-Butylbenzene	10.988	91	508	0.11 ug/L #	76
77) 1,2,4-Trimethylbenzene	11.049	105	1113	0.14 ug/L	76
78) sec-Butylbenzene	11.128	105	1923	0.19 ug/L	91
79) 4-Isopropyltoluene	11.250	119	1666	0.20 ug/L	98
80) 1,3-Dichlorobenzene	11.298	146	1014	0.20 ug/L	98
81) 1,4-Dichlorobenzene	11.371	146	1286	0.25 ug/L	79
82) n-Butylbenzene	11.572	91	2665	0.35 ug/L	87
83) 1,2-Dichlorobenzene	11.694	146	637	0.13 ug/L	90
84) 1,2-Dibromo-3-Chloropr...	0.000		0	N.D.	
85) Hexachlorobutadiene	12.795	223	256	0.38 ug/L #	72
86) 1,2,4-Trichlorobenzene	12.813	180	1436	0.45 ug/L	98
87) Naphthalene	13.075	128	2959	0.31 ug/L	99
88) 1,2,3-Trichlorobenzene	13.233	180	1105	0.36 ug/L	73

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

File :C:\msdchem\1\DATA\2020-05\0E01047\VA20050121.D
Operator : PS/TNL
Acquired : 1 May 2020 11:38 pm using AcqMethod VA2001RUN.M
Instrument : VOA-GCMS1
Sample Name: 0E01047-IBLK7
Misc Info : 1X 5mL DI
Vial Number: 21

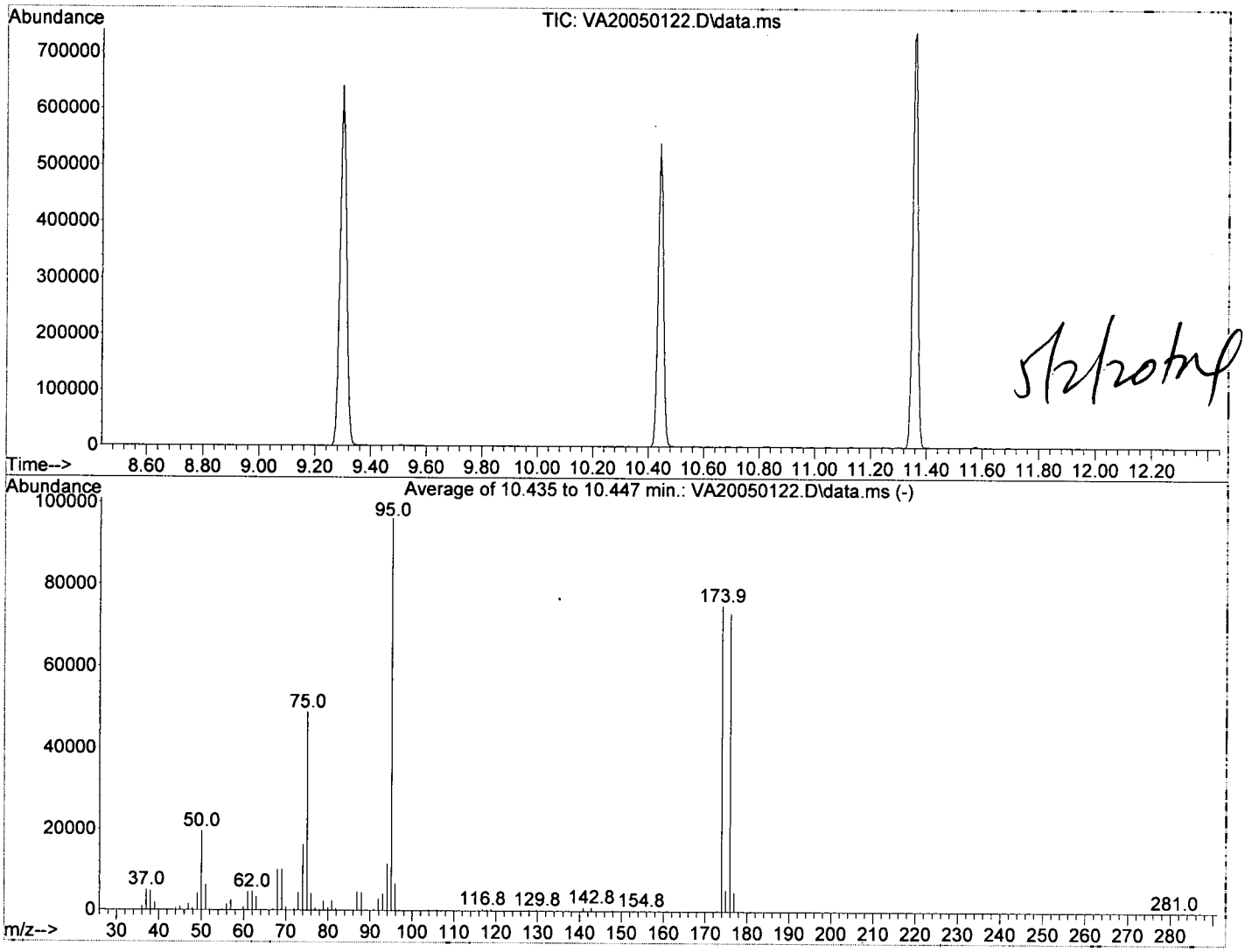


BFB

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050122.D
Acq On : 2 May 2020 12:05 am
Operator : PS/TNL
Sample : 0E01047-TUN2
Misc : A20C446 5mL BFB (IS/SURR)
ALS Vial : 22 Sample Multiplier: 1

Integration File: RTEINT.P

Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Title : EPA 8260C: Volatile Organic Compounds
Last Update : Sat May 02 09:01:18 2020



AutoFind: Scans 1499, 1500, 1501; Background Corrected with Scan 1492

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
95	174	50	200	128.0	96090	PASS
96	95	5	9	7.0	6690	PASS
173	174	0.00	2	0.4	315	PASS
174	95	50	200	78.1	75088	PASS
175	174	5	9	7.0	5236	PASS
176	174	95	105	97.6	73314	PASS
177	176	5	10	6.5	4771	PASS

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050122.D
Acq On : 2 May 2020 12:05 am
Operator : PS/TNL
Sample : 0E01047-TUN2
Misc : A20C446 5mL BFB (IS/SURR)
ALS Vial : 22 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:17:09 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Sat May 02 09:01:18 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene (I)	5.532	99	118582	50.00 ug/L	0.00
45) Chlorobenzene-d5 (I)	9.298	117	333298	50.00 ug/L	0.00
66) 1,4-Dichlorobenzene-d4...	11.360	152	156918	50.00 ug/L	0.00
System Monitoring Compounds					
32) Dibromofluoromethane (S)	5.033	111	96352	48.15 ug/L	0.00
39) 1,4-Difluorobenzene (S)	6.073	114	374102	49.83 ug/L	0.00
48) Toluene-d8 (S)	7.558	98	441806	50.37 ug/L	0.00
67) 4-Bromofluorobenzene (S)	10.441	174	120853	50.36 ug/L	0.00
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.402	85	101	0.05 ug/L #	51
3) Chloromethane	1.573	50	127	0.04 ug/L #	50
4) Vinyl Chloride	0.000		0	N.D.	
5) Bromomethane	0.000		0	N.D.	
6) Chloroethane	0.000		0	N.D.	
7) Trichlorofluoromethane	2.217	101	138	0.04 ug/L #	27
8) Ethanol	2.716	45	650	7.03 ug/L #	29
9) 1,1-Dichloroethene	0.000		0	N.D.	
10) Carbon Disulfide	2.716	76	1148	0.22 ug/L	78
11) Freon 113	0.000		0	N.D.	
12) Iodomethane	0.000		0	N.D.	
13) Acrolein	0.000		0	N.D.	
14) Methylene Chloride	3.282	84	4135	1.42 ug/L	93
15) Acetone	3.355	43	1573	0.97 ug/L	85
16) t-1,2-Dichloroethene	3.440	61	141	0.04 ug/L #	22
17) n-Hexane	0.000		0	N.D.	
18) Methyl-tert-butyl-ether	0.000		0	N.D.	
19) tert-Butanol (TBA)	3.702	59	645	0.96 ug/L #	27
20) Diisopropyl ether (DIPE)	0.000		0	N.D.	
21) 1,1-Dichloroethane	0.000		0	N.D.	
22) Acrylonitrile	0.000		0	N.D.	
23) Vinyl Acetate	0.000		0	N.D.	
24) Ethyl-tert-butyl ether...	0.000		0	N.D.	
25) c-1,2-Dichloroethene	0.000		0	N.D.	
26) 2,2-Dichloropropane	0.000		0	N.D.	
27) Bromochloromethane	0.000		0	N.D.	
28) Chloroform	0.000		0	N.D.	
29) Carbon Tetrachloride	0.000		0	N.D.	
30) Tetrahydrofuran	0.000		0	N.D.	
31) 1,1,1-Trichloroethane	0.000		0	N.D.	
33) 1,1-Dichloropropene	5.179	75	234	0.07 ug/L #	39
34) 2-Butanone (MEK)	0.000		0	N.D.	
35) Benzene	5.410	78	269	0.02 ug/L	56
36) tert-Amyl methyl ether...	5.526	73	177	0.02 ug/L #	1
37) 1,2-Dichloroethane (EDC)	0.000		0	N.D.	
38) iso-Butyl Alcohol	0.000		0	N.D.	
40) Trichloroethene (TCE)	6.025	130	139	0.05 ug/L #	64
41) tert-Amyl ethyl ether ...	0.000		0	N.D.	
42) Dibromomethane	0.000		0	N.D.	
43) 1,2-Dichloropropane	0.000		0	N.D.	
44) Bromodichloromethane	0.000		0	N.D.	
46) 2-Chloroethyl Vinyl Ether	0.000		0	N.D.	
47) c-1,3-Dichloropropene	0.000		0	N.D.	

Quantitation Report (Not Reviewed)

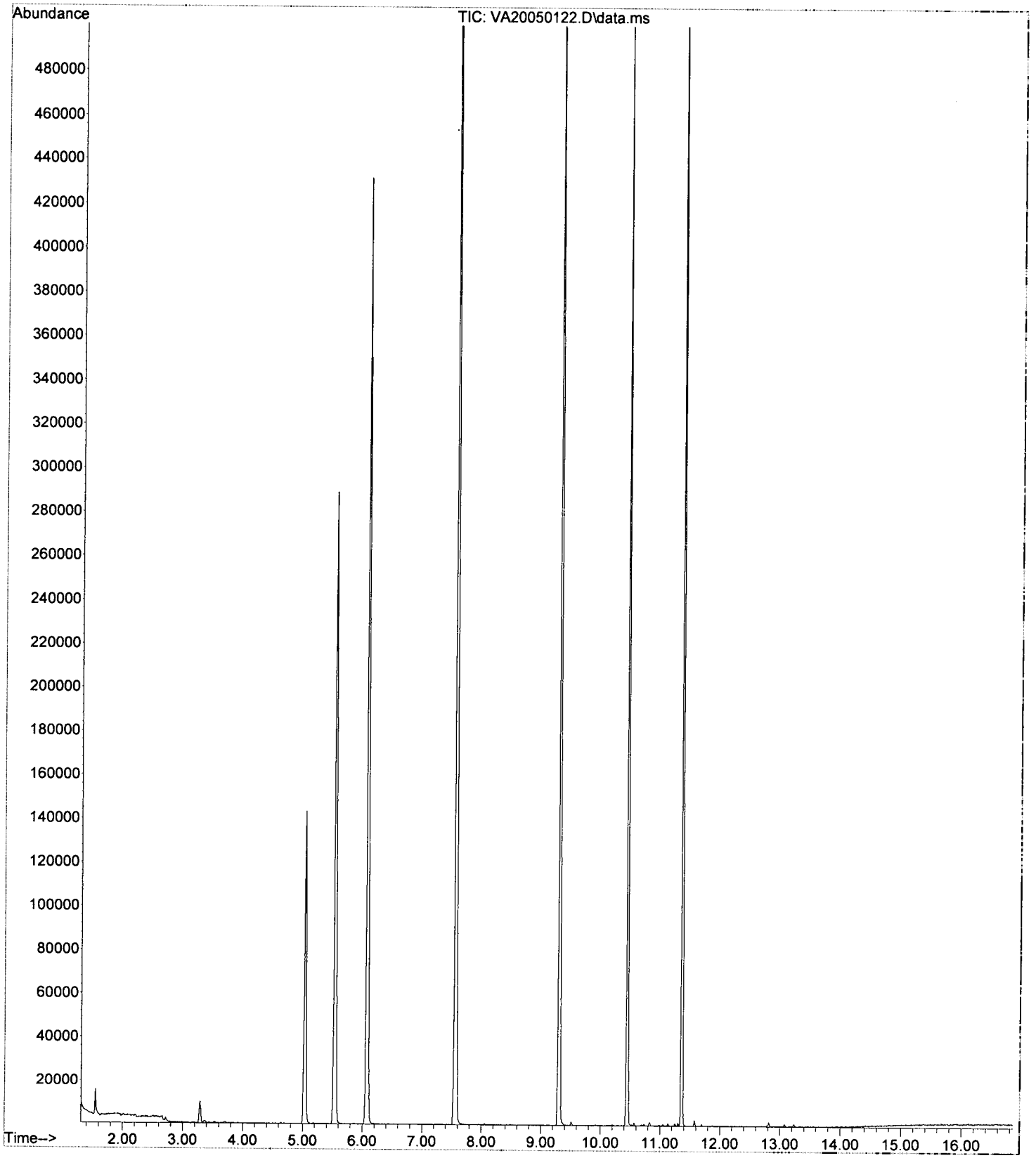
Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050122.D
Acq On : 2 May 2020 12:05 am
Operator : PS/TNL
Sample : 0E01047-TUN2
Misc : A20C446 5mL BFB (IS/SURR)
ALS Vial : 22 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:17:09 2020
Quant Method : \\Voa-gcms1\1\METHODS\VA200501W.M
Quant Title : EPA 8260C: Volatile Organic Compounds
QLast Update : Sat May 02 09:01:18 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
49) Toluene	7.613	91	517	0.04 ug/L	91
50) Tetrachloroethene (PCE)	8.057	166	272	0.12 ug/L #	70
51) 4-Methyl-2-Pentanone (...	0.000		0	N.D.	
52) t-1,3-Dichloropropene	0.000		0	N.D.	
53) 1,1,2-Trichloroethane	0.000		0	N.D.	
54) Dibromochloromethane	0.000		0	N.D.	
55) 1,3-Dichloropropane	0.000		0	N.D.	
56) 1,2-Dibromoethane (EDB)	0.000		0	N.D.	
57) 2-Hexanone	0.000		0	N.D.	
58) Chlorobenzene	9.310	112	449	0.06 ug/L #	1
59) Ethylbenzene	9.365	91	742	0.06 ug/L	89
60) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.	
61) m,p-Xylenes (2)	9.511	91	1119	0.12 ug/L	81
62) o-Xylene	9.918	91	362	0.04 ug/L	83
63) Styrene	9.967	104	176	0.03 ug/L #	37
64) Bromoform	0.000		0	N.D.	
65) Isopropylbenzene	10.204	105	494	0.05 ug/L	81
68) Bromobenzene	10.527	156	49	0.02 ug/L #	34
69) n-Propylbenzene	10.563	91	1233	0.10 ug/L	90
70) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.	
71) 2-Chlorotoluene	10.691	126	81	0.03 ug/L #	75
72) 1,3,5-Trimethylbenzene	10.733	105	566	0.07 ug/L	82
73) 1,2,3-Trichloropropane	0.000		0	N.D.	
74) t-1,4-Dichloro-2-butene	0.000		0	N.D.	
75) 4-Chlorotoluene	10.831	91	780	0.10 ug/L	83
76) tert-Butylbenzene	10.989	91	231	0.05 ug/L #	60
77) 1,2,4-Trimethylbenzene	11.050	105	549	0.07 ug/L	81
78) sec-Butylbenzene	11.135	105	869	0.09 ug/L	84
79) 4-Isopropyltoluene	11.250	119	879	0.11 ug/L	91
80) 1,3-Dichlorobenzene	11.299	146	549	0.11 ug/L	64
81) 1,4-Dichlorobenzene	11.366	146	792	0.15 ug/L #	1
82) n-Butylbenzene	11.579	91	1532	0.20 ug/L	81
83) 1,2-Dichlorobenzene	11.695	146	372	0.08 ug/L	90
84) 1,2-Dibromo-3-Chloropr...	0.000		0	N.D.	
85) Hexachlorobutadiene	12.783	223	108	0.16 ug/L #	43
86) 1,2,4-Trichlorobenzene	12.814	180	677	0.21 ug/L	88
87) Naphthalene	13.082	128	1217	0.13 ug/L	79
88) 1,2,3-Trichlorobenzene	13.234	180	489	0.16 ug/L	84

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

File :C:\msdchem\1\DATA\2020-05\0E01047\VA20050122.D
Operator : PS/TNL
Acquired : 2 May 2020 12:05 am using AcqMethod VA2001RUN.M
Instrument : VOA-GCMS1
Sample Name: 0E01047-TUN2
Misc Info : A20C446 5mL BFB (IS/SURR)
Vial Number: 22



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050123.D
Acq On : 2 May 2020 12:32 am
Operator : PS/TNL
Sample : 0E01047-ICB2
Misc : 1X 5mL DI
ALS Vial : 23 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:57:48 2020
Quant Method : C:\msdchem\1\METHODS\VA200501G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Sat May 02 09:48:06 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene (IS)	5.531	168	200915	50.00	ug/L	0.00
System Monitoring Compounds						
2) 1,4-Difluorobenzene (Sur)	6.072	TIC	803540	45.41	ug/L	0.00
3) 4-Bromofluorobenzene (...	10.440	TIC	670331	47.16	ug/L	0.00
4) Chlorobenzene-d5 (NR)	9.297	TIC	931677	0.00		0.00
10) Toluene-d8 (NR)	7.557	TIC	1109320	0.00		0.00
12) 1,4-Dichlorobenzene-d4...	11.359	TIC	881476	0.00		0.00
Target Compounds						Qvalue
5) CA-LUFT (C5-C12)	7.253	TIC	344704m	16.07	ug/L	
6) TPHg (C5-C9)	6.247	TIC	328565m	12.35	ug/L	
7) TPHg (C6-C10)	6.928	TIC	300130m	14.48	ug/L	
8) NWTPH-Gx	9.261	TIC	34382m	20.53	ug/L	

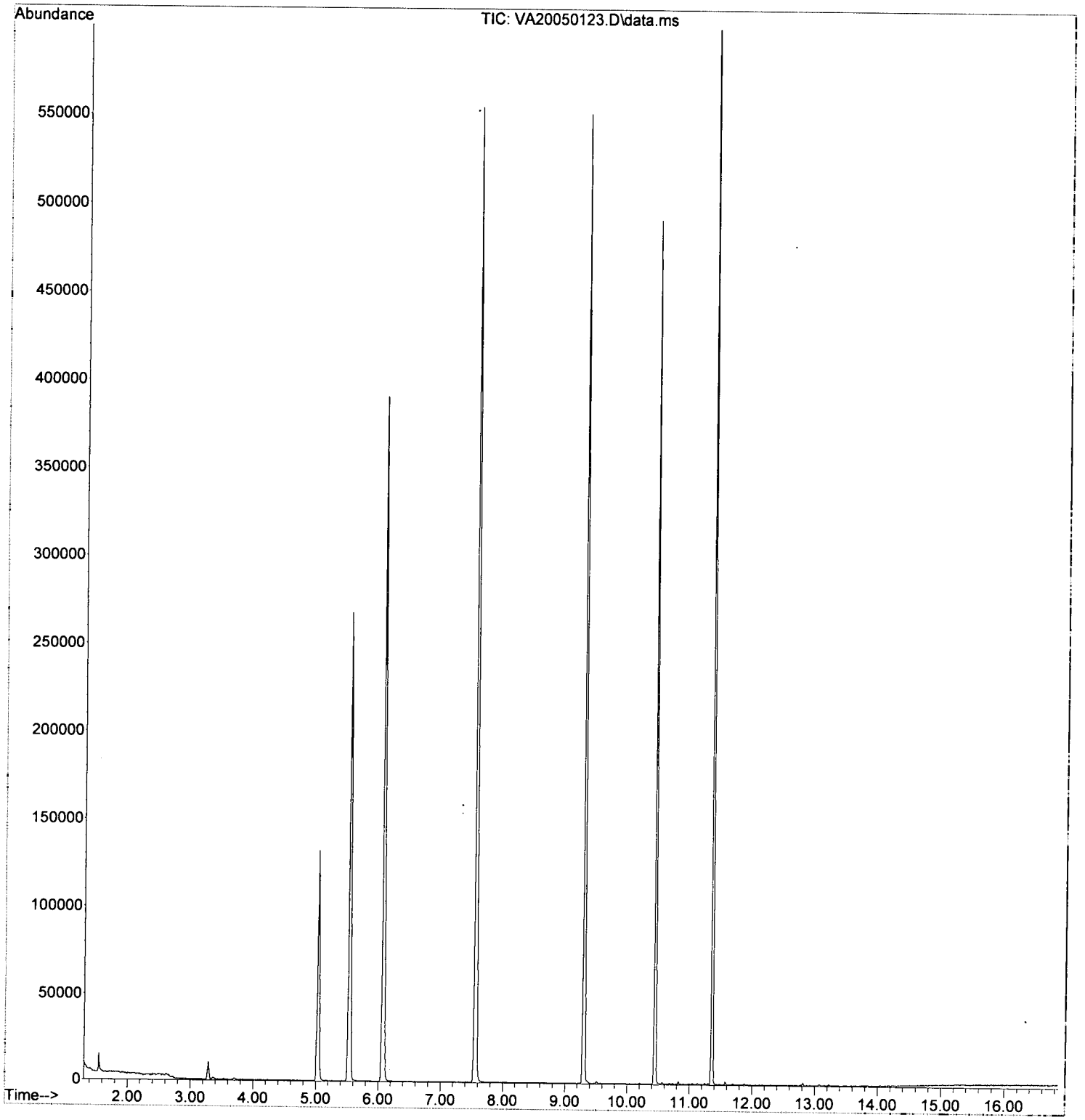
(#) = qualifier out of range (m) = manual integration (+) = signals summed

5/2/2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050123.D
Acq On : 2 May 2020 12:32 am
Operator : PS/TNL
Sample : 0E01047-ICB2
Misc : 1X 5mL DI
ALS Vial : 23 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:57:48 2020
Quant Method : C:\msdchem\1\METHODS\VA200501G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Sat May 02 09:48:06 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050124.D
Acq On : 2 May 2020 1:00 am
Operator : PS/TNL
Sample : 0E01047-RT1
Misc : 1X 5mL A19J423
ALS Vial : 24 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:57:50 2020
Quant Method : C:\msdchem\1\METHODS\VA200501G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Sat May 02 09:48:06 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene (IS)	5.532	168	196969	50.00	ug/L	0.00
System Monitoring Compounds						
2) 1,4-Difluorobenzene (Sur)	6.074	TIC	794389	45.79	ug/L	0.00
3) 4-Bromofluorobenzene (...	10.441	TIC	680837	48.86	ug/L	0.00
4) Chlorobenzene-d5 (NR)	9.298	TIC	932112	0.00		0.00
10) Toluene-d8 (NR)	7.558	TIC	1109480	0.00		0.00
12) 1,4-Dichlorobenzene-d4...	11.354	TIC	908386	0.00		0.00
Target Compounds						Qvalue
5) CA-LUFT (C5-C12)	7.253	TIC	3606968m	289.40	ug/L	
6) TPHg (C5-C9)	6.247	TIC	2095343m	197.33	ug/L	
7) TPHg (C6-C10)	6.928	TIC	1884141m	207.80	ug/L	
8) NWTPH-Gx	9.261	TIC	3662134m	445.88	ug/L	

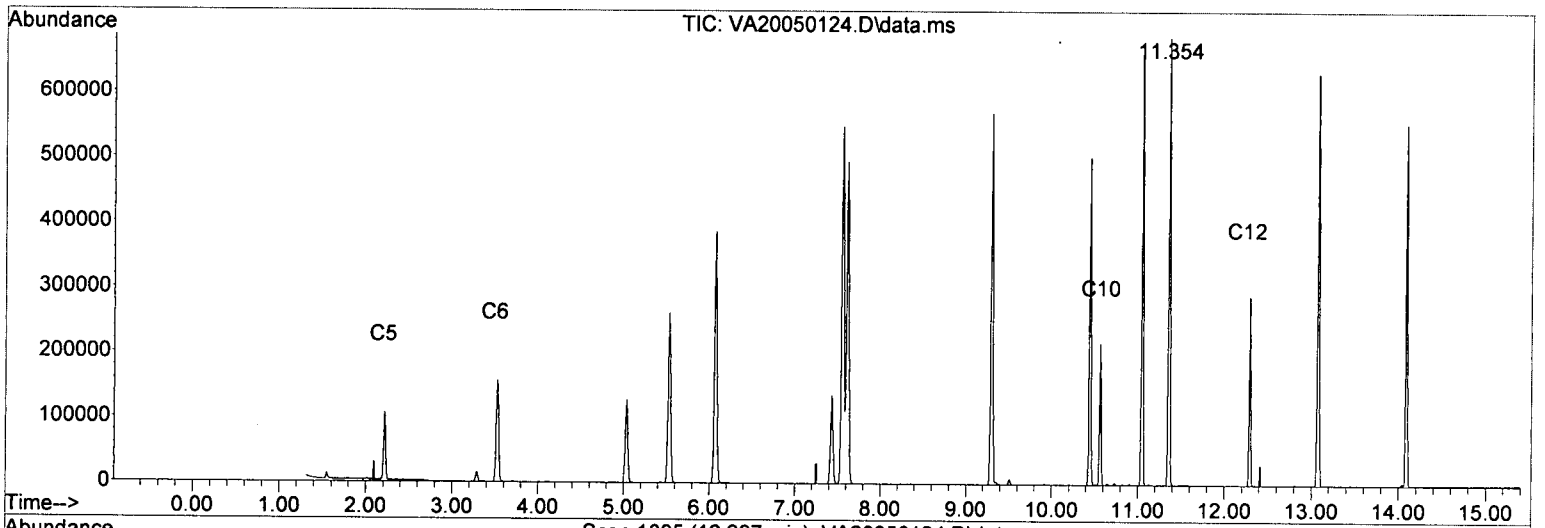
(#) = qualifier out of range (m) = manual integration (+) = signals summed

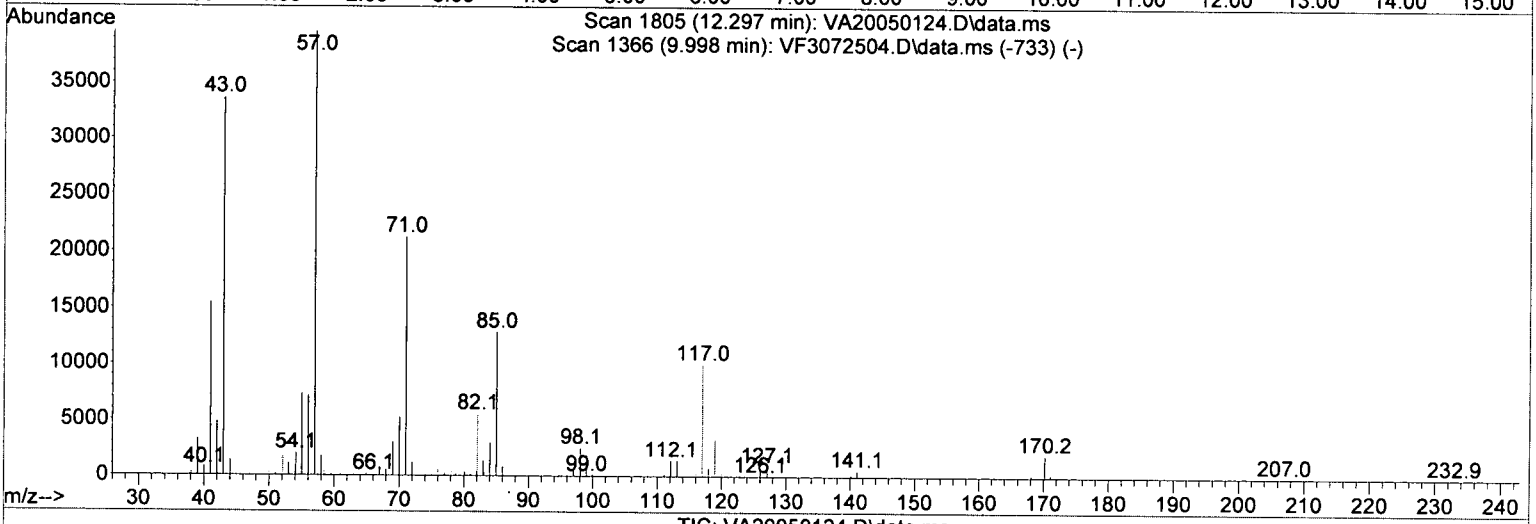
5/2/2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050124.D
Acq On : 2 May 2020 1:00 am
Operator : PS/TNL
Sample : 0E01047-RT1
Misc : 1X 5mL A19J423
ALS Vial : 24 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:57:50 2020
Quant Method : C:\msdchem\1\METHODS\VA200501G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Sat May 02 09:48:06 2020
Response via : Initial Calibration





TIC: VA20050124.D\data.ms

(5) CA-LUFT (C5-C12) (H)

7.253min (0.000) 289.40 ug/L m

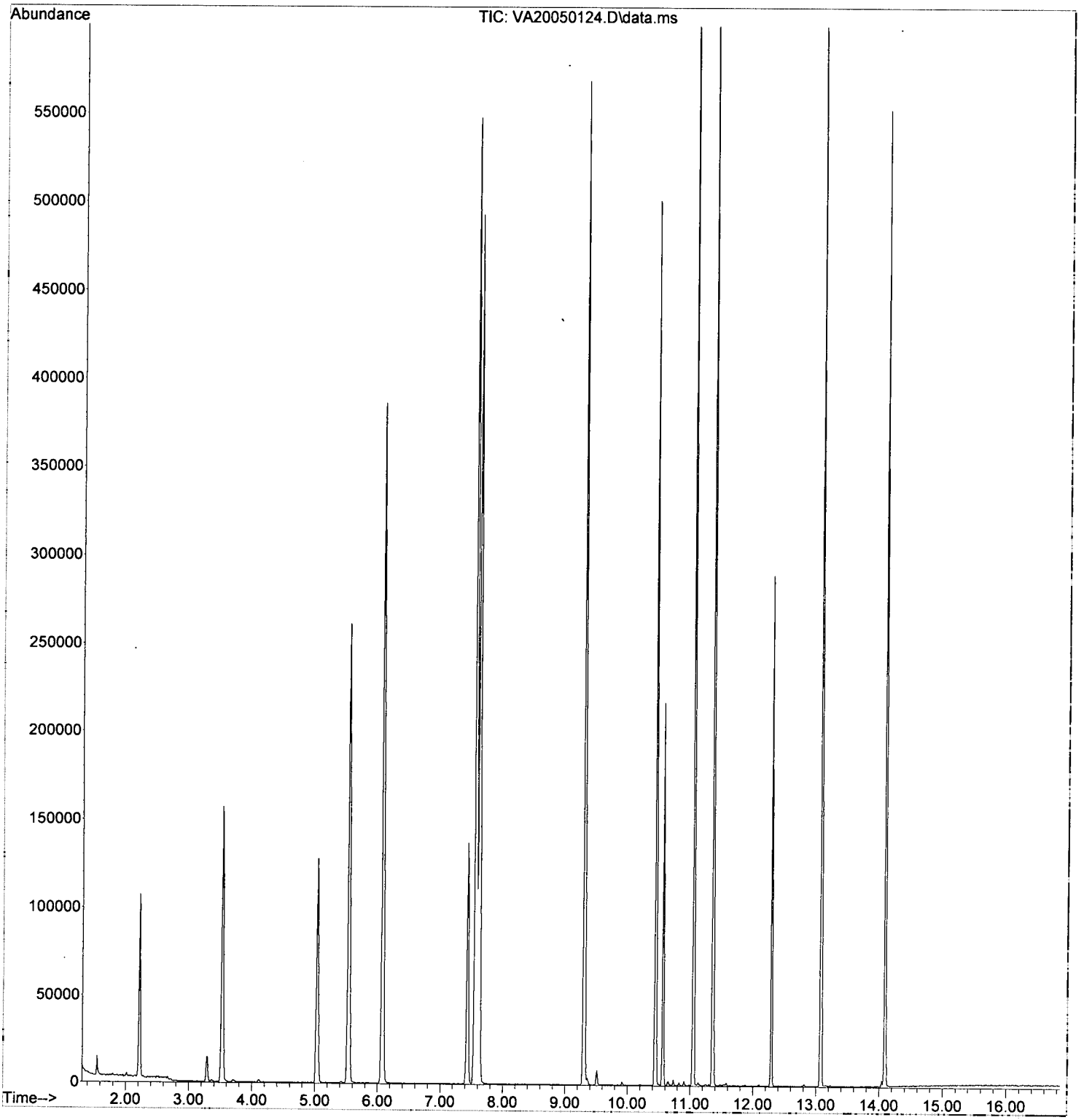
response 3606968

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.95#
0.00	0.00	0.87#
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050124.D
Acq On : 2 May 2020 1:00 am
Operator : PS/TNL
Sample : 0E01047-RT1
Misc : 1X 5mL A19J423
ALS Vial : 24 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:57:50 2020
Quant Method : C:\msdchem\1\METHODS\VA200501G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Sat May 02 09:48:06 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050125.D
Acq On : 2 May 2020 1:27 am
Operator : PS/TNL
Sample : 0E01047-IBLK8
Misc : 1X 5mL DI
ALS Vial : 25 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:57:52 2020
Quant Method : C:\msdchem\1\METHODS\VA200501G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Sat May 02 09:48:06 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene (IS)	5.531	168	196844	50.00	ug/L	0.00
System Monitoring Compounds						
2) 1,4-Difluorobenzene (Sur)	6.073	TIC	797058	45.98	ug/L	0.00
3) 4-Bromofluorobenzene (...	10.441	TIC	670883	48.18	ug/L	0.00
4) Chlorobenzene-d5 (NR)	9.297	TIC	935013	0.00		0.00
10) Toluene-d8 (NR)	7.557	TIC	1110855	0.00		0.00
12) 1,4-Dichlorobenzene-d4...	11.359	TIC	870095	0.00		0.00
Target Compounds						Qvalue
5) CA-LUFT (C5-C12)	7.253	TIC	350536m	17.15	ug/L	
6) TPHg (C5-C9)	6.247	TIC	330952m	13.30	ug/L	
7) TPHg (C6-C10)	6.928	TIC	291617m	14.18	ug/L	
8) NWTPH-Gx	9.261	TIC	36661m	20.88	ug/L	

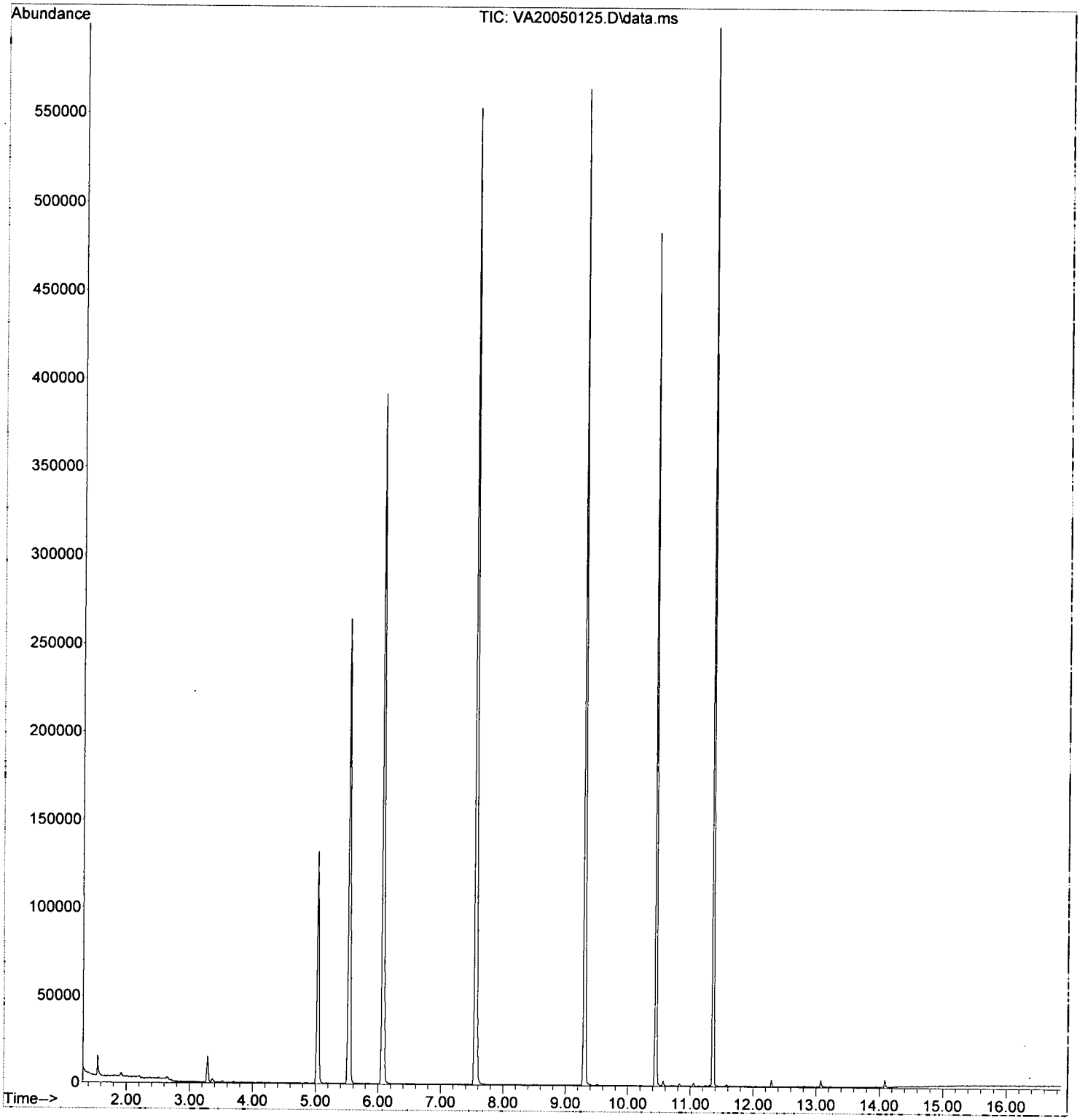
NR 5/2/2020

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050125.D
Acq On : 2 May 2020 1:27 am
Operator : PS/TNL
Sample : 0E01047-IBLK8
Misc : 1X 5mL DI
ALS Vial : 25 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:57:52 2020
Quant Method : C:\msdchem\1\METHODS\VA200501G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Sat May 02 09:48:06 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050126.D
Acq On : 2 May 2020 1:54 am
Operator : PS/TNL
Sample : 0E01047-CALC
Misc : 1X 5mL 50 PPB GX
ALS Vial : 26 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

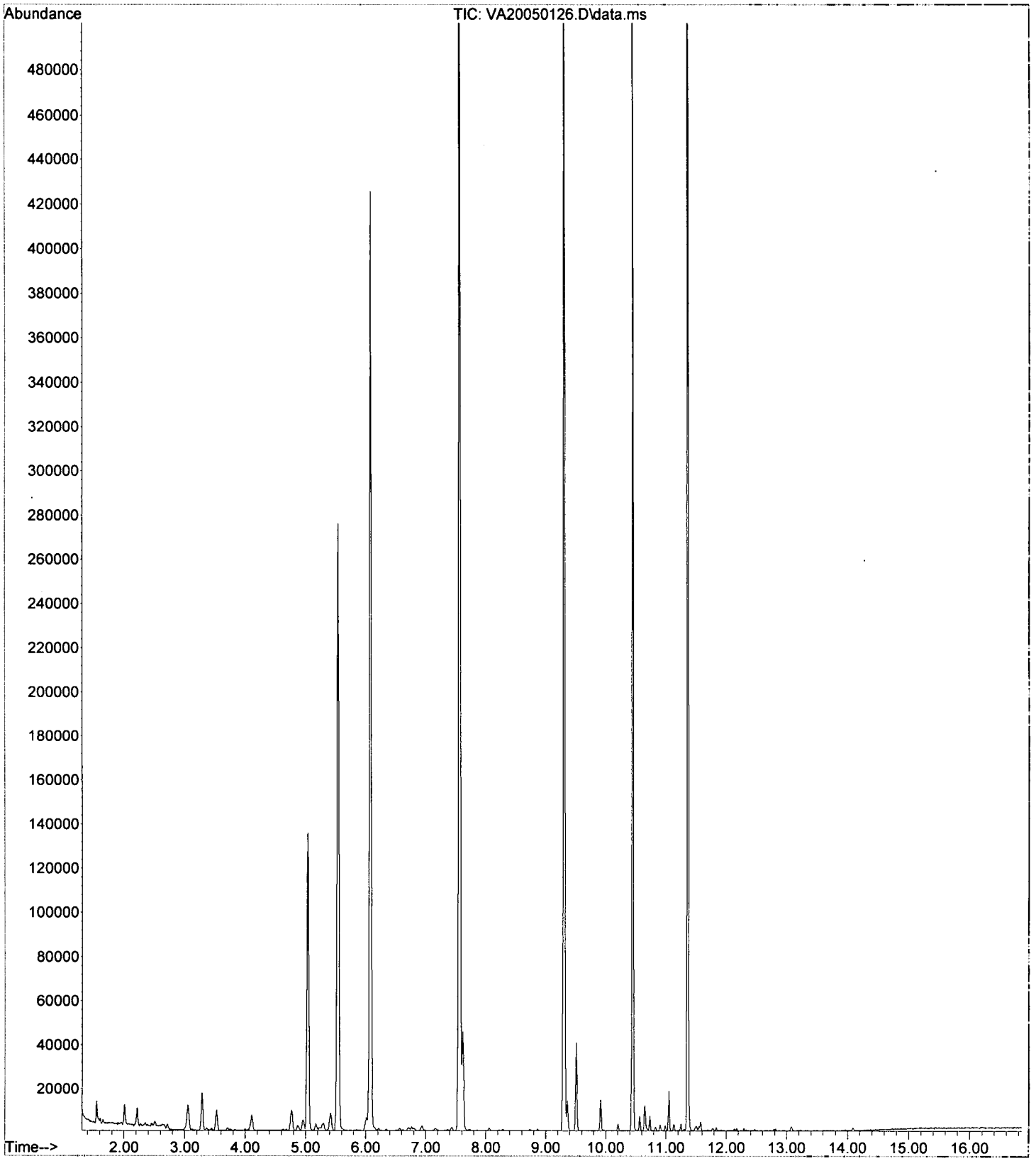
Quant Time: May 02 09:41:08 2020
Quant Method : C:\msdchem\1\METHODS\VA200501G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Thu Apr 23 18:17:57 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene (IS)	5.530	168	207110	50.00	ug/L	0.00
System Monitoring Compounds						
2) 1,4-Difluorobenzene (Sur)	6.072	TIC	825832	48.05	ug/L	0.00
3) 4-Bromofluorobenzene (...	10.440	TIC	710648	50.45	ug/L	0.00
4) Chlorobenzene-d5 (NR)	9.296	TIC	971077	0.00		0.00
10) Toluene-d8 (NR)	7.556	TIC	1165981	0.00		0.00
12) 1,4-Dichlorobenzene-d4...	11.358	TIC	948781	0.00		0.00
Target Compounds						Qvalue
5) CA-LUFT (C5-C12)	7.253	TIC	859794m	66.44	ug/L	
6) TPHg (C5-C9)	6.247	TIC	758716m	63.59	ug/L	
7) TPHg (C6-C10)	6.928	TIC	655685m	61.69	ug/L	
8) NWTPH-Gx	9.261	TIC	371117m	67.42	ug/L	

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

5/2/20 tml

File :C:\msdchem\1\DATA\2020-05\0E01047\VA20050126.D
Operator : PS/TNL
Acquired : 2 May 2020 1:54 am using AcqMethod VA2001RUN.M
Instrument : VOA-GCMS1
Sample Name: 0E01047-CALC
Misc Info : 1X 5mL 50 PPB GX
Vial Number: 26



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050127.D
Acq On : 2 May 2020 2:22 am
Operator : PS/TNL
Sample : 0E01047-CALD
Misc : 1X 5mL 100 PPB GX
ALS Vial : 27 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

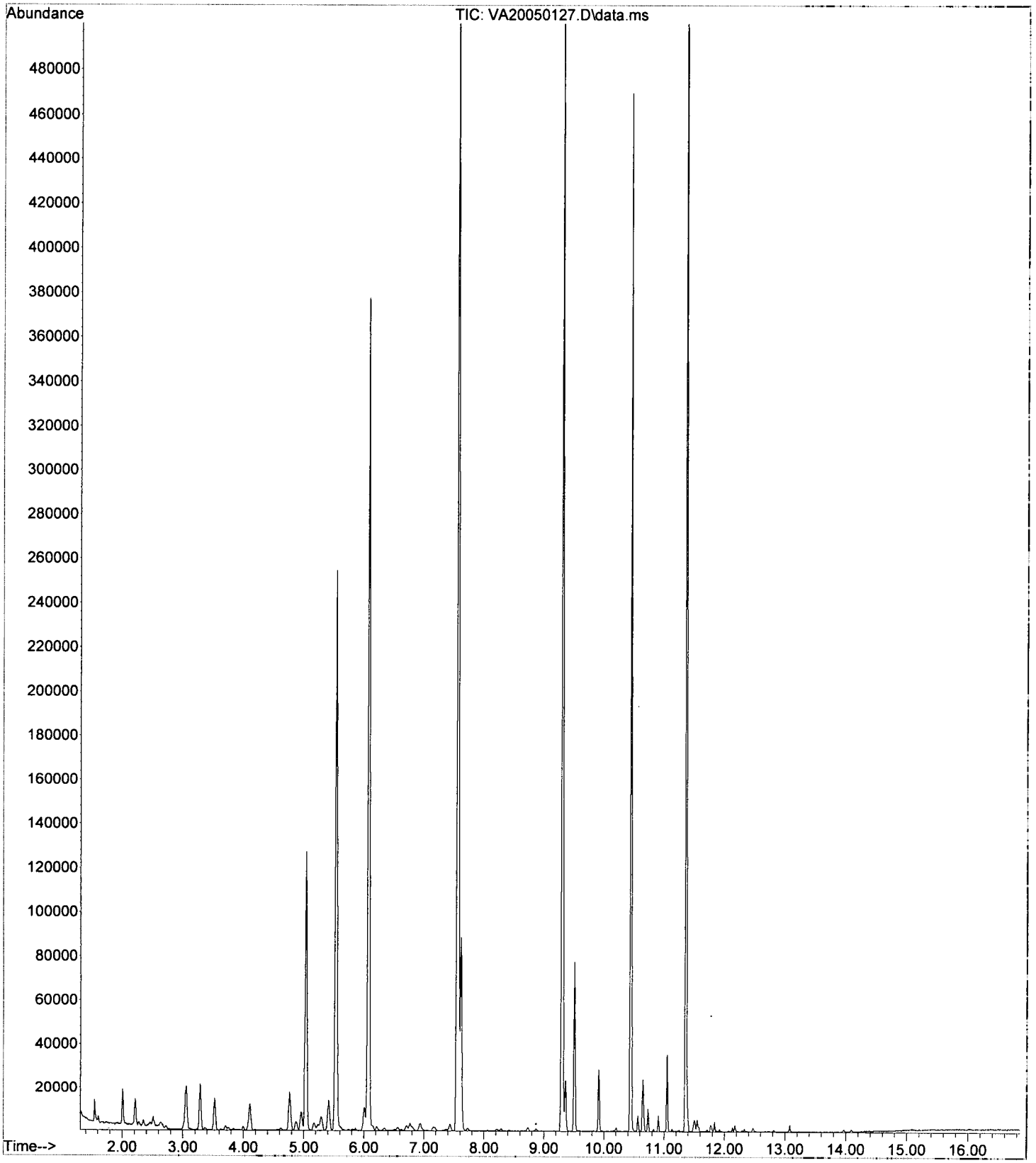
Quant Time: May 02 09:41:11 2020
Quant Method : C:\msdchem\1\METHODS\VA200501G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Thu Apr 23 18:17:57 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene (IS)	5.532	168	192201	50.00	ug/L	0.00
System Monitoring Compounds						
2) 1,4-Difluorobenzene (Sur)	6.073	TIC	770905	48.33	ug/L	0.00
3) 4-Bromofluorobenzene (...	10.441	TIC	620653	47.48	ug/L	0.00
4) Chlorobenzene-d5 (NR)	9.298	TIC	873488	0.00		0.00
10) Toluene-d8 (NR)	7.558	TIC	1081706	0.00		0.00
12) 1,4-Dichlorobenzene-d4...	11.354	TIC	810145	0.00		0.00
Target Compounds						Qvalue
5) CA-LUFT (C5-C12)	7.253	TIC	1291131m	109.85	ug/L	
6) TPHg (C5-C9)	6.247	TIC	1124128m	110.30	ug/L	
7) TPHg (C6-C10)	6.928	TIC	961147m	107.26	ug/L	
8) NWTPH-Gx	9.261	TIC	687201m	109.50	ug/L	

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

5/2/2020

File :C:\msdchem\1\DATA\2020-05\0E01047\VA20050127.D
Operator : PS/TNL
Acquired : 2 May 2020 2:22 am using AcqMethod VA2001RUN.M
Instrument : VOA-GCMS1
Sample Name: 0E01047-CALD
Misc Info : 1X 5mL 100 PPB GX
Vial Number: 27



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050128.D
Acq On : 2 May 2020 2:49 am
Operator : PS/TNL
Sample : 0E01047-CALE
Misc : 1X 5mL 250 PPB GX
ALS Vial : 28 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

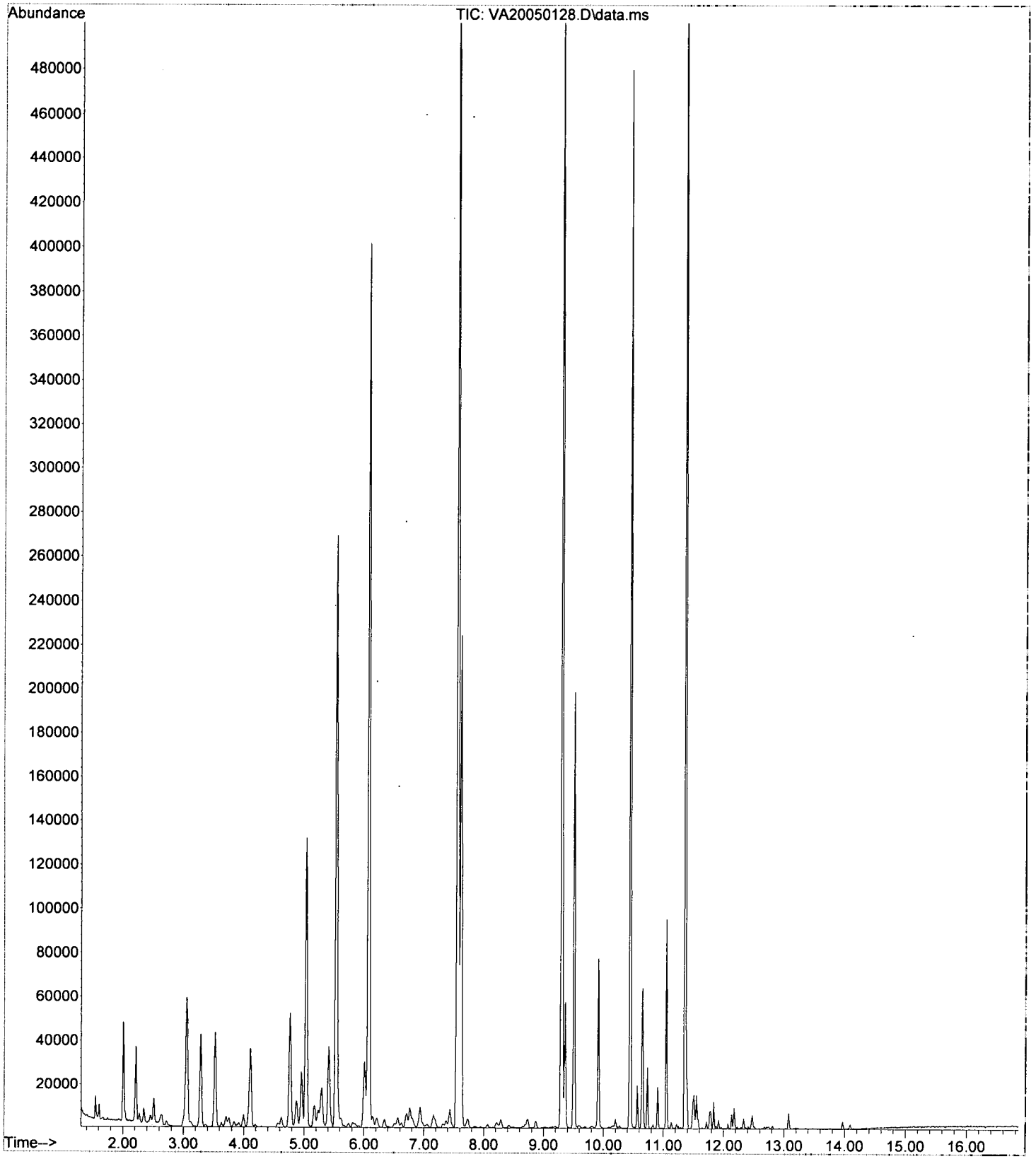
Quant Time: May 02 09:41:13 2020
Quant Method : C:\msdchem\1\METHODS\VA200501G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Thu Apr 23 18:17:57 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene (IS)	5.531	168	200983	50.00	ug/L	0.00
System Monitoring Compounds						
2) 1,4-Difluorobenzene (Sur)	6.073	TIC	823341	49.36	ug/L	0.00
3) 4-Bromofluorobenzene (...	10.441	TIC	681967	49.89	ug/L	0.00
4) Chlorobenzene-d5 (NR)	9.297	TIC	948048	0.00		0.00
10) Toluene-d8 (NR)	7.557	TIC	1128583	0.00		0.00
12) 1,4-Dichlorobenzene-d4...	11.359	TIC	917879	0.00		0.00
Target Compounds						Qvalue
5) CA-LUFT (C5-C12)	7.253	TIC	3060058m	253.60	ug/L	
6) TPHg (C5-C9)	6.247	TIC	2614489m	263.11	ug/L	
7) TPHg (C6-C10)	6.928	TIC	2229891m	258.36	ug/L	
8) NWTPH-Gx	9.261	TIC	1855547m	242.80	ug/L	

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

5/2/2020

File :C:\msdchem\1\DATA\2020-05\0E01047\VA20050128.D
Operator : PS/TNL
Acquired : 2 May 2020 2:49 am using AcqMethod VA2001RUN.M
Instrument : VOA-GCMS1
Sample Name: 0E01047-CALE
Misc Info : 1X 5mL 250 PPB GX
Vial Number: 28



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050129.D
Acq On : 2 May 2020 3:16 am
Operator : PS/TNL
Sample : 0E01047-CALF
Misc : 1X 5mL 500 PPB GX
ALS Vial : 29 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

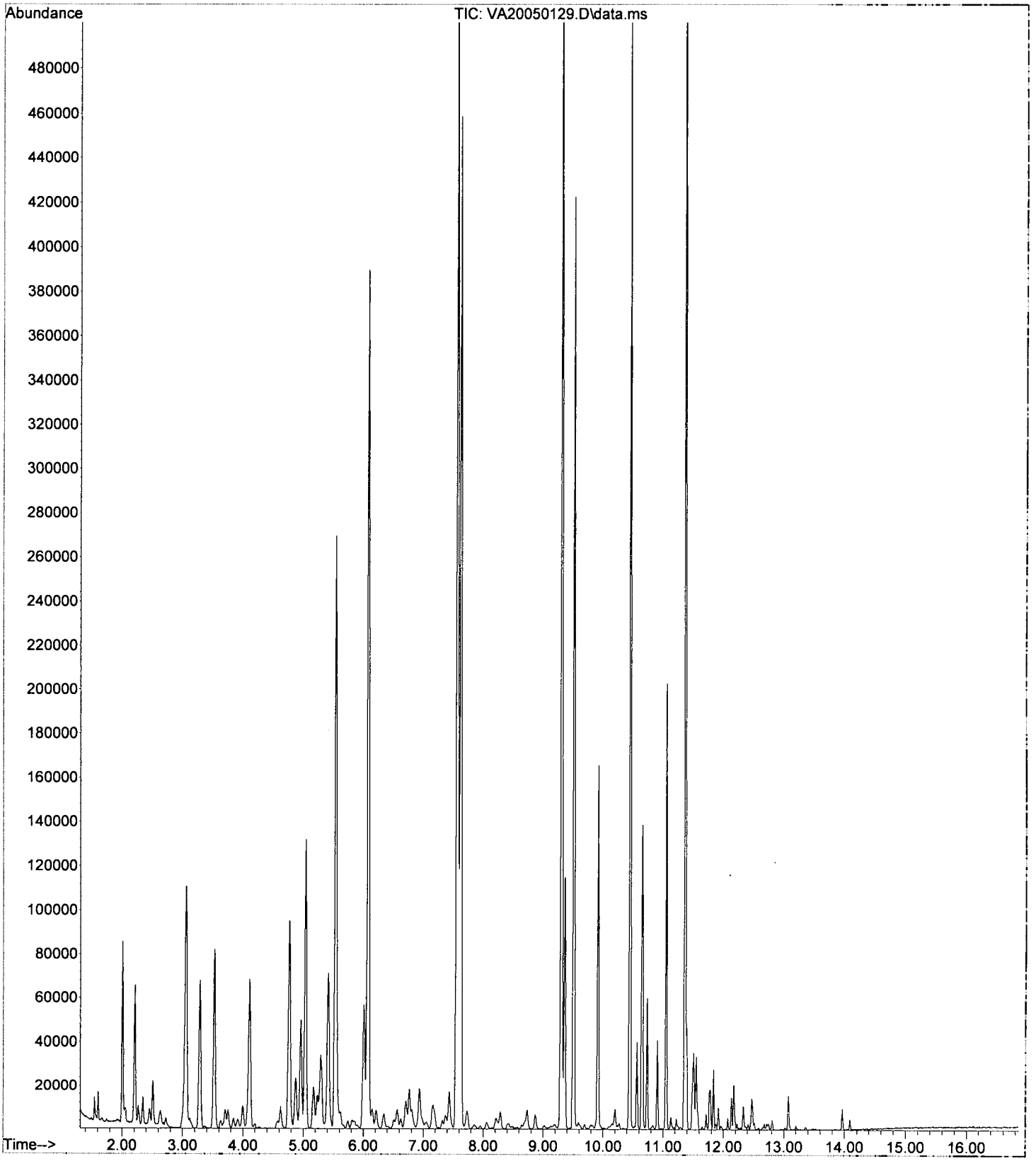
Quant Time: May 02 09:41:15 2020
Quant Method : C:\msdchem\1\METHODS\VA200501G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Thu Apr 23 18:17:57 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene (IS)	5.532	168	198598	50.00	ug/L	0.00
System Monitoring Compounds						
2) 1,4-Difluorobenzene (Sur)	6.073	TIC	822445	49.90	ug/L	0.00
3) 4-Bromofluorobenzene (...	10.441	TIC	709849	52.55	ug/L	0.00
4) Chlorobenzene-d5 (NR)	9.297	TIC	982402	0.00		0.00
10) Toluene-d8 (NR)	7.557	TIC	1167283	0.00		0.00
12) 1,4-Dichlorobenzene-d4...	11.360	TIC	961502	0.00		0.00
Target Compounds						Qvalue
5) CA-LUFT (C5-C12)	7.253	TIC	5864425m	494.68	ug/L	
6) TPHg (C5-C9)	6.247	TIC	4822639m	503.06	ug/L	
7) TPHg (C6-C10)	6.928	TIC	4144058m	499.78	ug/L	
8) NWTPH-Gx	9.261	TIC	3932879m	491.11	ug/L	

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

5/2/2020

File :C:\msdchem\1\DATA\2020-05\0E01047\VA20050129.D
Operator : PS/TNL
Acquired : 2 May 2020 3:16 am using AcqMethod VA2001RUN.M
Instrument : VOA-GCMS1
Sample Name: 0E01047-CALF
Misc Info : 1X 5mL 500 PPB GX
Vial Number: 29



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050130.D
Acq On : 2 May 2020 3:43 am
Operator : PS/TNL
Sample : 0E01047-CALG
Misc : 1X 5mL 1000 PPB GX
ALS Vial : 30 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

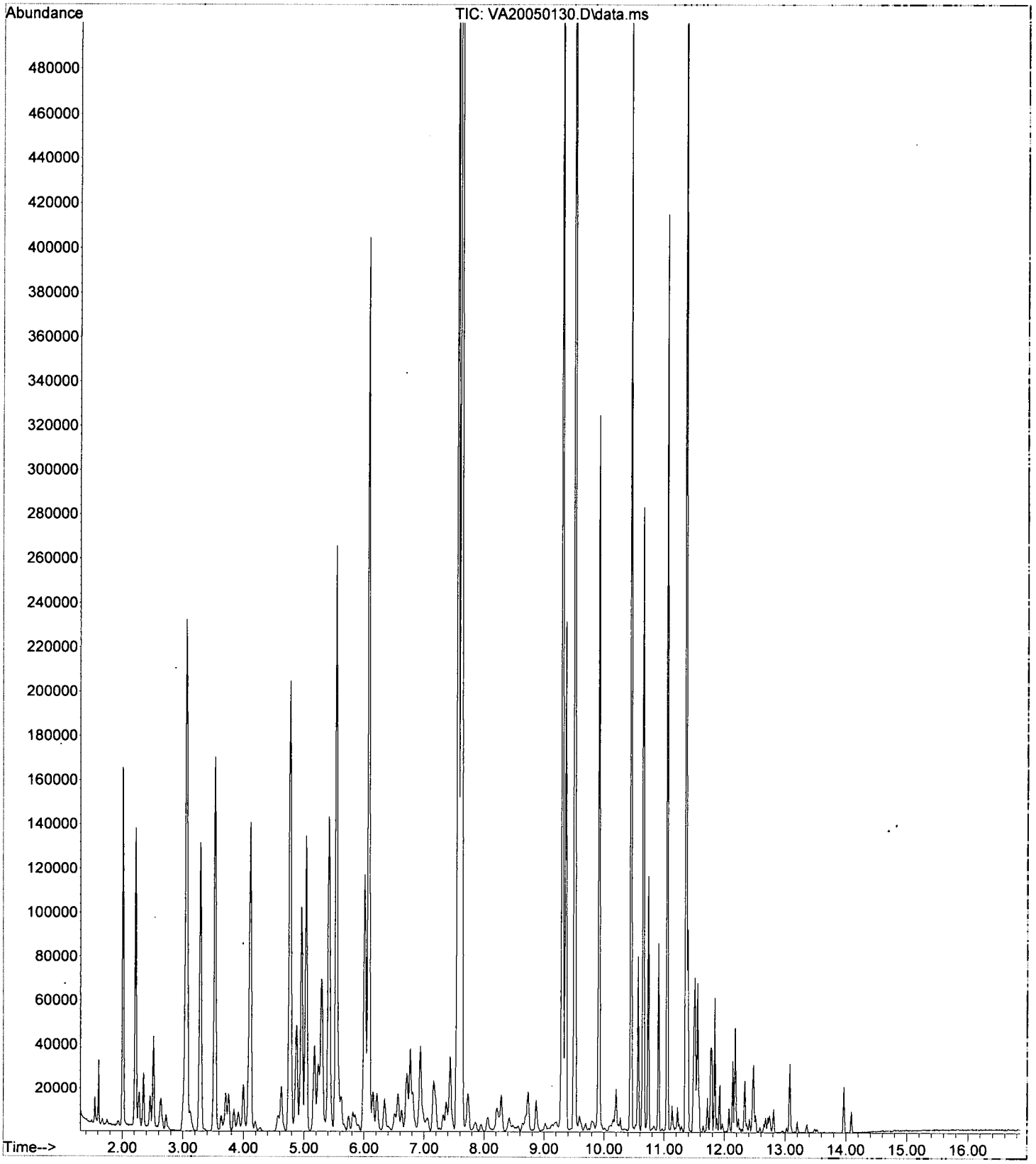
Quant Time: May 02 09:41:17 2020
Quant Method : C:\msdchem\1\METHODS\VA200501G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Thu Apr 23 18:17:57 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene (IS)	5.531	168	196067	50.00	ug/L	0.00
System Monitoring Compounds						
2) 1,4-Difluorobenzene (Sur)	6.073	TIC	826451	50.79	ug/L	0.00
3) 4-Bromofluorobenzene (...	10.441	TIC	689061	51.67	ug/L	0.00
4) Chlorobenzene-d5 (NR)	9.297	TIC	962820	0.00		0.00
10) Toluene-d8 (NR)	7.557	TIC	1117406	0.00		0.00
12) 1,4-Dichlorobenzene-d4...	11.359	TIC	922760	0.00		0.00
Target Compounds						Qvalue
5) CA-LUFT (C5-C12)	7.253	TIC	11807272m	1009.51	ug/L	
6) TPHg (C5-C9)	6.247	TIC	9667948m	1032.64	ug/L	
7) TPHg (C6-C10)	6.928	TIC	8283488m	1024.38	ug/L	
8) NWTPH-Gx	9.261	TIC	8009819m	982.60	ug/L	

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

5/2/2020

File :C:\msdchem\1\DATA\2020-05\0E01047\VA20050130.D
Operator : PS/TNL
Acquired : 2 May 2020 3:43 am using AcqMethod VA2001RUN.M
Instrument : VOA-GCMS1
Sample Name: 0E01047-CALG
Misc Info : 1X 5mL 1000 PPB GX
Vial Number: 30



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050131.D
Acq On : 2 May 2020 4:11 am
Operator : PS/TNL
Sample : 0E01047-CALH
Misc : 1X 5mL 2500 PPB GX
ALS Vial : 31 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

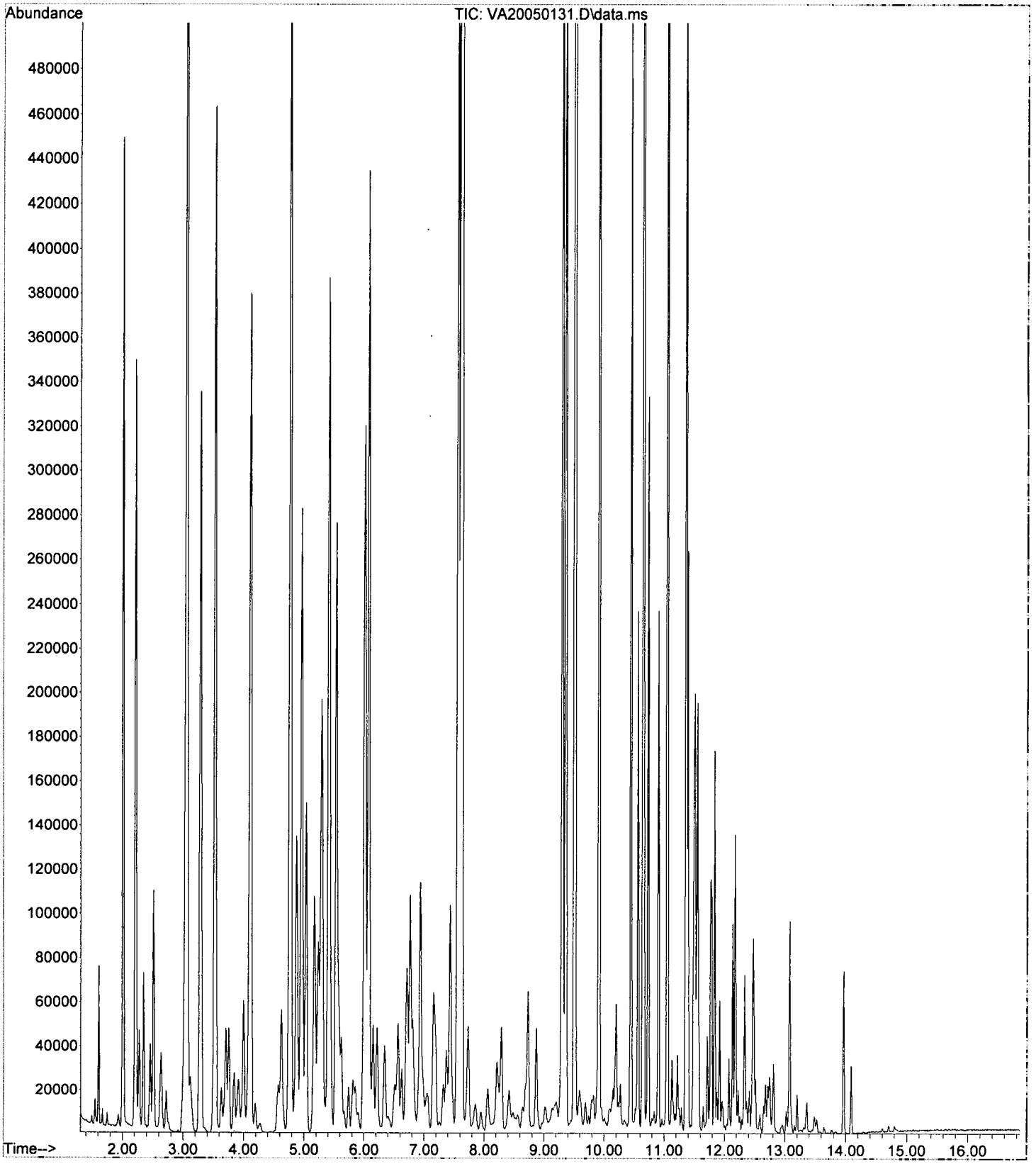
Quant Time: May 02 09:41:19 2020
Quant Method : C:\msdchem\1\METHODS\VA200501G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Thu Apr 23 18:17:57 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene (IS)	5.531	168	205503	50.00	ug/L	0.00
System Monitoring Compounds						
2) 1,4-Difluorobenzene (Sur)	6.072	TIC	889538	52.16	ug/L	0.00
3) 4-Bromofluorobenzene (...	10.440	TIC	723445	51.76	ug/L	0.00
4) Chlorobenzene-d5 (NR)	9.296	TIC	1075379	0.00		0.00
10) Toluene-d8 (NR)	7.557	TIC	1232831	0.00		0.00
12) 1,4-Dichlorobenzene-d4...	11.359	TIC	977388	0.00		0.00
Target Compounds						Qvalue
5) CA-LUFT (C5-C12)	7.253	TIC	32116951m	2599.74	ug/L	
6) TPHg (C5-C9)	6.247	TIC	25899009m	2631.22	ug/L	
7) TPHg (C6-C10)	6.928	TIC	22272396m	2616.62	ug/L	
8) NWTPH-Gx	9.261	TIC	22557059m	2565.05	ug/L	

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

5/2/2020

File :C:\msdchem\1\DATA\2020-05\0E01047\VA20050131.D
Operator : PS/TNL
Acquired : 2 May 2020 4:11 am using AcqMethod VA2001RUN.M
Instrument : VOA-GCMS1
Sample Name: 0E01047-CALH
Misc Info : 1X 5mL 2500 PPB GX
Vial Number: 31



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050132.D
Acq On : 2 May 2020 4:38 am
Operator : PS/TNL
Sample : 0E01047-CALI
Misc : 1X 5mL 5000 PPB GX
ALS Vial : 32 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

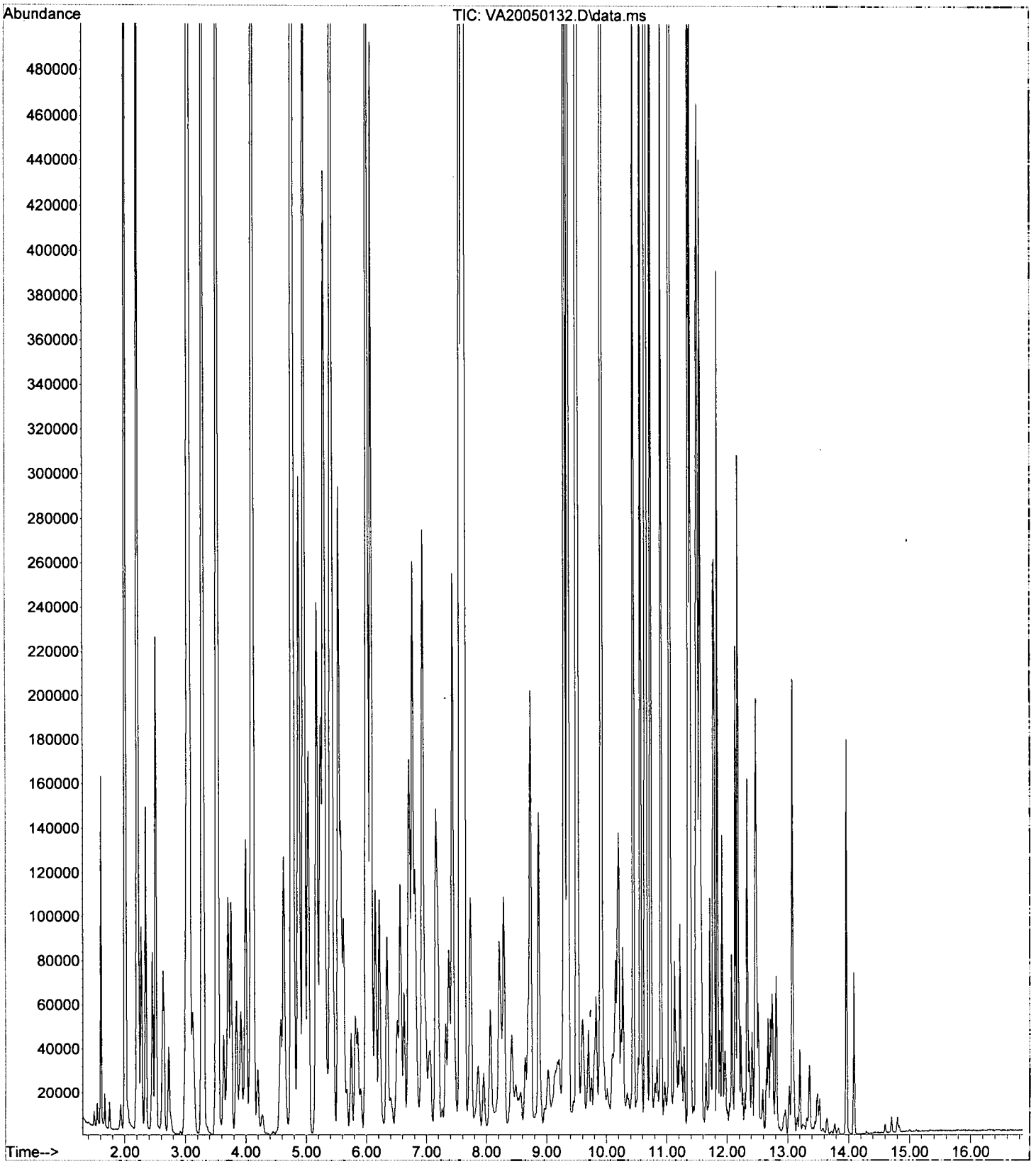
Quant Time: May 02 09:41:21 2020
Quant Method : C:\msdchem\1\METHODS\VA200501G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Thu Apr 23 18:17:57 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene (IS)	5.532	168	217888	50.00	ug/L	0.00
System Monitoring Compounds						
2) 1,4-Difluorobenzene (Sur)	6.073	TIC	1024620	56.66	ug/L	0.00
3) 4-Bromofluorobenzene (...	10.441	TIC	827119	55.81	ug/L	0.00
4) Chlorobenzene-d5 (NR)	9.297	TIC	1414220	0.00		0.00
10) Toluene-d8 (NR)	7.558	TIC	1284250	0.00		0.00
12) 1,4-Dichlorobenzene-d4...	11.360	TIC	1098091	0.00		0.00
Target Compounds						Qvalue
5) CA-LUFT (C5-C12)	7.253	TIC	71967091m	5403.43	ug/L	
6) TPHg (C5-C9)	6.247	TIC	57621905m	5427.22	ug/L	
7) TPHg (C6-C10)	6.928	TIC	49611331m	5382.81	ug/L	
8) NWTPH-Gx	9.261	TIC	51736804m	5397.27	ug/L	

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

5/2/2020

File :C:\msdchem\1\DATA\2020-05\0E01047\VA20050132.D
Operator : PS/TNL
Acquired : 2 May 2020 4:38 am using AcqMethod VA2001RUN.M
Instrument : VOA-GCMS1
Sample Name: 0E01047-CALI
Misc Info : 1X 5mL 5000 PPB GX
Vial Number: 32



Quantitation Report (Not Reviewed)

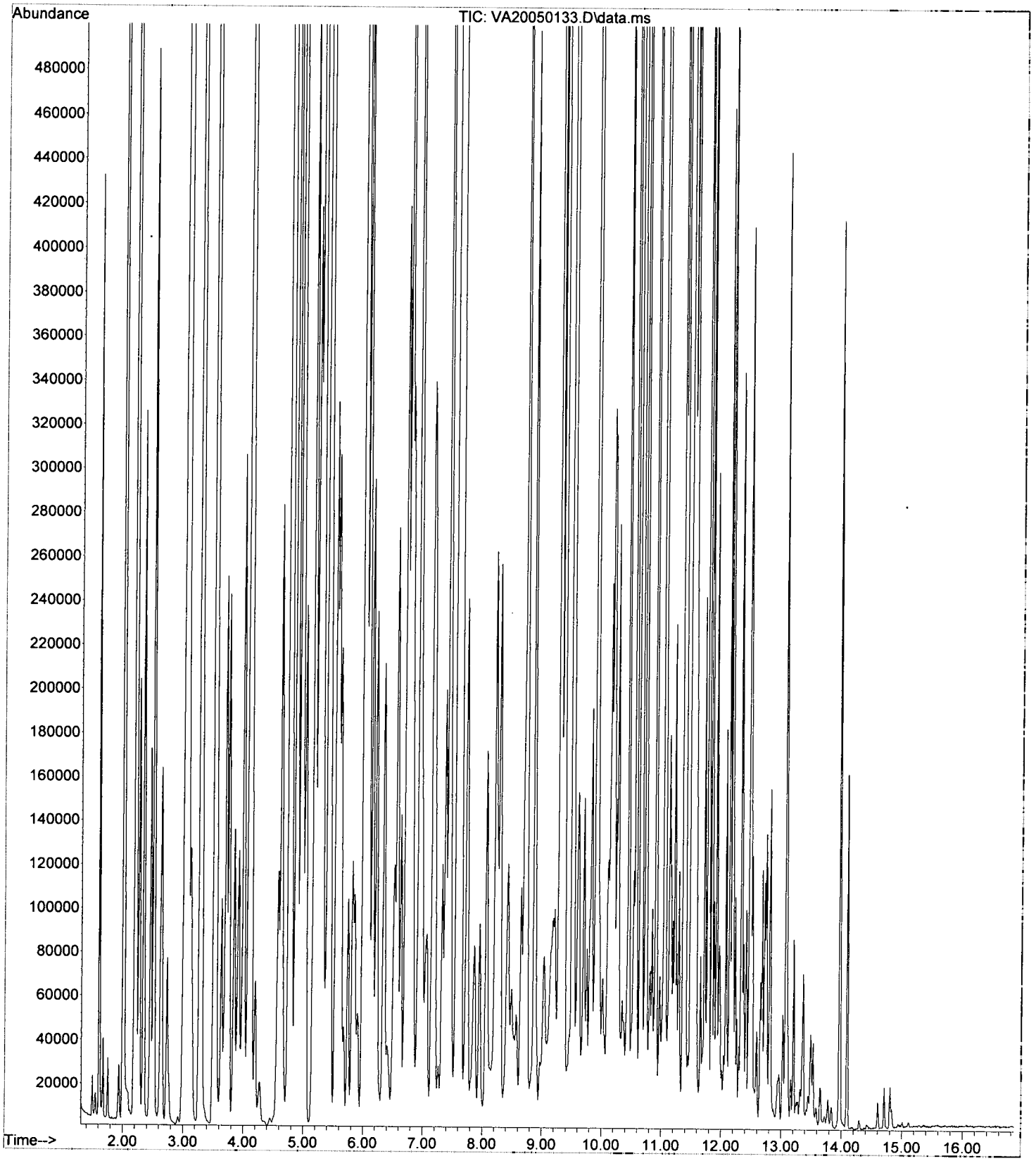
Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050133.D
Acq On : 2 May 2020 5:06 am
Operator : PS/TNL
Sample : 0E01047-CALJ
Misc : 1X 5mL 10000 PPB GX
ALS Vial : 33 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:41:23 2020
Quant Method : C:\msdchem\1\METHODS\VA200501G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Thu Apr 23 18:17:57 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene (IS)	5.532	168	244076	50.00	ug/L	0.00
System Monitoring Compounds						
2) 1,4-Difluorobenzene (Sur)	6.073	TIC	1402684	69.25	ug/L	0.00
3) 4-Bromofluorobenzene (...	10.441	TIC	936489	56.41	ug/L	0.00
4) Chlorobenzene-d5 (NR)	9.297	TIC	2287735	0.00		0.00
10) Toluene-d8 (NR)	7.557	TIC	1518498	0.00		0.00
12) 1,4-Dichlorobenzene-d4...	11.360	TIC	1184201	0.00		0.00
Target Compounds						Qvalue
5) CA-LUFT (C5-C12)	7.253	TIC	165799174m	10761.13	ug/L	
6) TPHg (C5-C9)	6.247	TIC	134041517m	10865.52	ug/L	
7) TPHg (C6-C10)	6.928	TIC	115732771m	10728.50	ug/L	
8) NWTPH-Gx	9.261	TIC	118510785m	10580.49	ug/L	

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

File :C:\msdchem\1\DATA\2020-05\0E01047\VA20050133.D
Operator : PS/TNL
Acquired : 2 May 2020 5:06 am using AcqMethod VA2001RUN.M
Instrument : VOA-GCMS1
Sample Name: 0E01047-CALJ
Misc Info : 1X 5mL 10000 PPB GX
Vial Number: 33



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050134.D
Acq On : 2 May 2020 5:33 am
Operator : PS/TNL
Sample : 0E01047-IBLK9
Misc : 1X 5mL DI
ALS Vial : 34 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:57:54 2020
Quant Method : C:\msdchem\1\METHODS\VA200501G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Sat May 02 09:48:06 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene (IS)	5.531	168	247093	50.00	ug/L	0.00
System Monitoring Compounds						
2) 1,4-Difluorobenzene (Sur)	6.073	TIC	956856	43.97	ug/L	0.00
3) 4-Bromofluorobenzene (...	10.441	TIC	775670	44.38	ug/L	0.00
4) Chlorobenzene-d5 (NR)	9.297	TIC	1073900	0.00		0.00
10) Toluene-d8 (NR)	7.557	TIC	1291833	0.00		0.00
12) 1,4-Dichlorobenzene-d4...	11.359	TIC	1004424	0.00		0.00
Target Compounds						Qvalue
5) CA-LUFT (C5-C12)	7.253	TIC	666888m	32.32	ug/L	
6) TPHg (C5-C9)	6.247	TIC	590327m	27.87	ug/L	
7) TPHg (C6-C10)	6.928	TIC	490403m	26.27	ug/L	
8) NWTPH-Gx	9.261	TIC	169678m	32.50	ug/L	

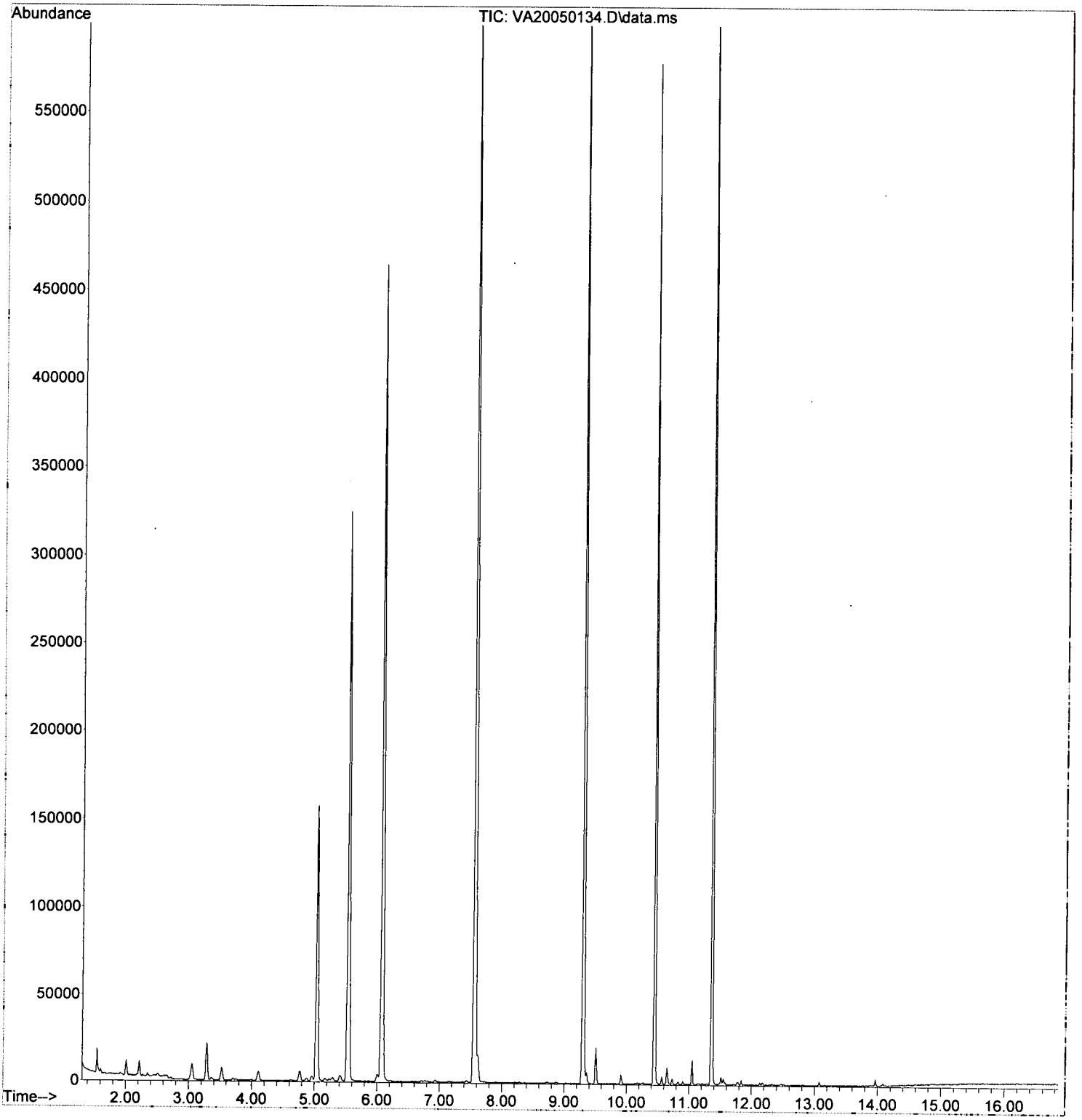
(#) = qualifier out of range (m) = manual integration (+) = signals summed

NR 5/2/2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050134.D
Acq On : 2 May 2020 5:33 am
Operator : PS/TNL
Sample : 0E01047-IBLK9
Misc : 1X 5mL DI
ALS Vial : 34 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:57:54 2020
Quant Method : C:\msdchem\1\METHODS\VA200501G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Sat May 02 09:48:06 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050135.D
Acq On : 2 May 2020 6:00 am
Operator : PS/TNL
Sample : 0E01047-IBLKA
Misc : 1X 5mL DI
ALS Vial : 35 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:57:56 2020
Quant Method : C:\msdchem\1\METHODS\VA200501G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Sat May 02 09:48:06 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene (IS)	5.531	168	238574	50.00	ug/L	0.00
System Monitoring Compounds						
2) 1,4-Difluorobenzene (Sur)	6.072	TIC	920776	43.82	ug/L	0.00
3) 4-Bromofluorobenzene (...	10.440	TIC	781791	46.32	ug/L	0.00
4) Chlorobenzene-d5 (NR)	9.302	TIC	1070043	0.00		0.00
10) Toluene-d8 (NR)	7.556	TIC	1284771	0.00		0.00
12) 1,4-Dichlorobenzene-d4...	11.359	TIC	1018246	0.00		0.00
Target Compounds						Qvalue
5) CA-LUFT (C5-C12)	7.253	TIC	519951m	23.73	ug/L	
6) TPHg (C5-C9)	6.247	TIC	488903m	20.88	ug/L	
7) TPHg (C6-C10)	6.928	TIC	402667m	19.14	ug/L	
8) NWTPH-Gx	9.261	TIC	71223m	23.49	ug/L	

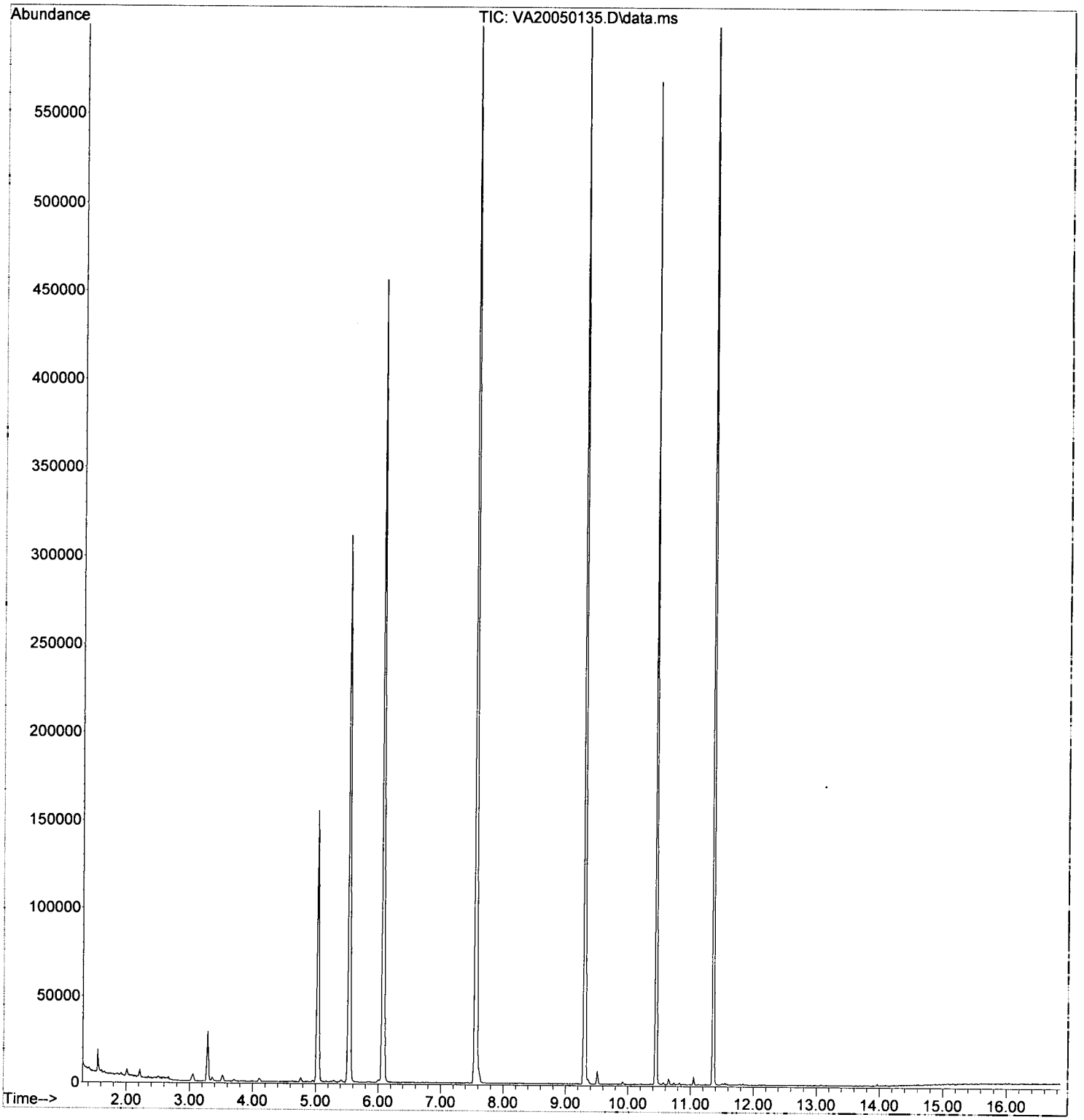
NR 5/21/20/24

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050135.D
Acq On : 2 May 2020 6:00 am
Operator : PS/TNL
Sample : 0E01047-IBLKA
Misc : 1X 5mL DI
ALS Vial : 35 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:57:56 2020
Quant Method : C:\msdchem\1\METHODS\VA200501G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Sat May 02 09:48:06 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050136.D
Acq On : 2 May 2020 6:28 am
Operator : PS/TNL
Sample : 0E01047-ICV2
Misc : 1X 5mL 500 PPB GX
ALS Vial : 36 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:57:58 2020
Quant Method : C:\msdchem\1\METHODS\VA200501G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Sat May 02 09:48:06 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene (IS)	5.532	168	223384	50.00	ug/L	0.00
System Monitoring Compounds						
2) 1,4-Difluorobenzene (Sur)	6.074	TIC	883937	44.93	ug/L	0.00
3) 4-Bromofluorobenzene (...	10.441	TIC	763909	48.34	ug/L	0.00
4) Chlorobenzene-d5 (NR)	9.298	TIC	1035527	0.00		0.00
10) Toluene-d8 (NR)	7.552	TIC	1246924	0.00		0.00
12) 1,4-Dichlorobenzene-d4...	11.354	TIC	1033460	0.00		0.00
Target Compounds						Qvalue
5) CA-LUFT (C5-C12)	7.253	TIC	6249859m	447.72	ug/L	
6) TPHg (C5-C9)	6.247	TIC	4999315m	437.24	ug/L	
7) TPHg (C6-C10)	6.928	TIC	4350007m	443.65	ug/L	
8) NWTPH-Gx	9.261	TIC	4321511m	463.17	ug/L	

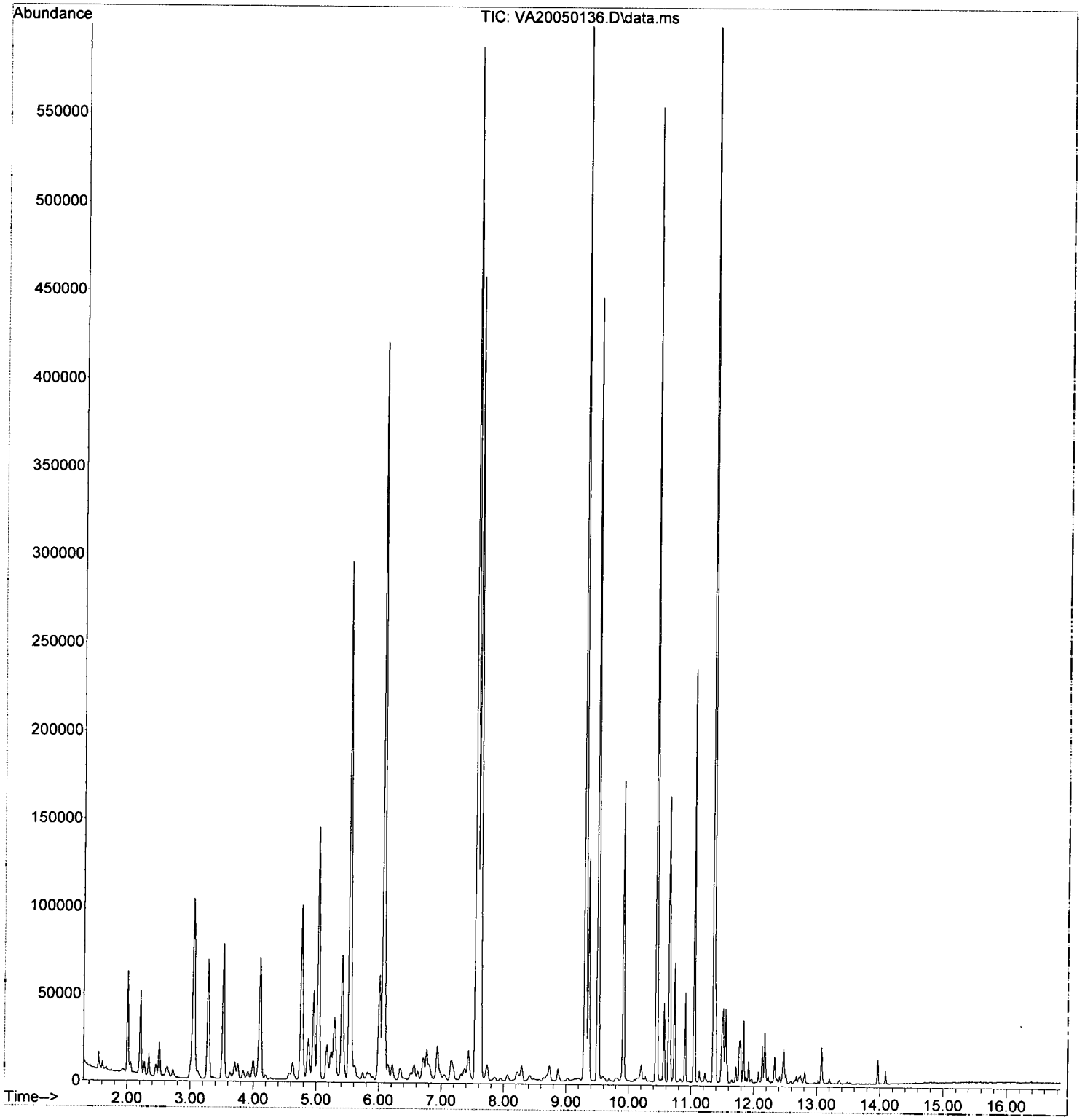
(#) = qualifier out of range (m) = manual integration (+) = signals summed

5/2/2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050136.D
Acq On : 2 May 2020 6:28 am
Operator : PS/TNL
Sample : 0E01047-ICV2
Misc : 1X 5mL 500 PPB GX
ALS Vial : 36 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:57:58 2020
Quant Method : C:\msdchem\1\METHODS\VA200501G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Sat May 02 09:48:06 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050137.D
Acq On : 2 May 2020 6:55 am
Operator : PS/TNL
Sample : 0E01047-IBLKB
Misc : 1X 5mL DI
ALS Vial : 37 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:58:00 2020
Quant Method : C:\msdchem\1\METHODS\VA200501G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Sat May 02 09:48:06 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene (IS)	5.531	168	220214	50.00	ug/L	0.00
System Monitoring Compounds						
2) 1,4-Difluorobenzene (Sur)	6.072	TIC	866740	44.69	ug/L	0.00
3) 4-Bromofluorobenzene (...	10.440	TIC	741839	47.62	ug/L	0.00
4) Chlorobenzene-d5 (NR)	9.297	TIC	1012830	0.00		0.00
10) Toluene-d8 (NR)	7.557	TIC	1200428	0.00		0.00
12) 1,4-Dichlorobenzene-d4...	11.359	TIC	953475	0.00		0.00
Target Compounds						Qvalue
5) CA-LUFT (C5-C12)	7.253	TIC	402212m	17.90	ug/L	
6) TPHg (C5-C9)	6.247	TIC	417560m	17.72	ug/L	
7) TPHg (C6-C10)	6.928	TIC	377465m	19.77	ug/L	
8) NWTPH-Gx	9.261	TIC	64940m	23.41	ug/L	

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

5/2/2020

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2020-05\0E01047\
Data File : VA20050137.D
Acq On : 2 May 2020 6:55 am
Operator : PS/TNL
Sample : 0E01047-IBLKB
Misc : 1X 5mL DI
ALS Vial : 37 Sample Multiplier: 1
DataAcq Meth:VA2001RUN.M

Quant Time: May 02 09:58:00 2020
Quant Method : C:\msdchem\1\METHODS\VA200501G.M
Quant Title : NWTPH-Gx by GC/MS
QLast Update : Sat May 02 09:48:06 2020
Response via : Initial Calibration